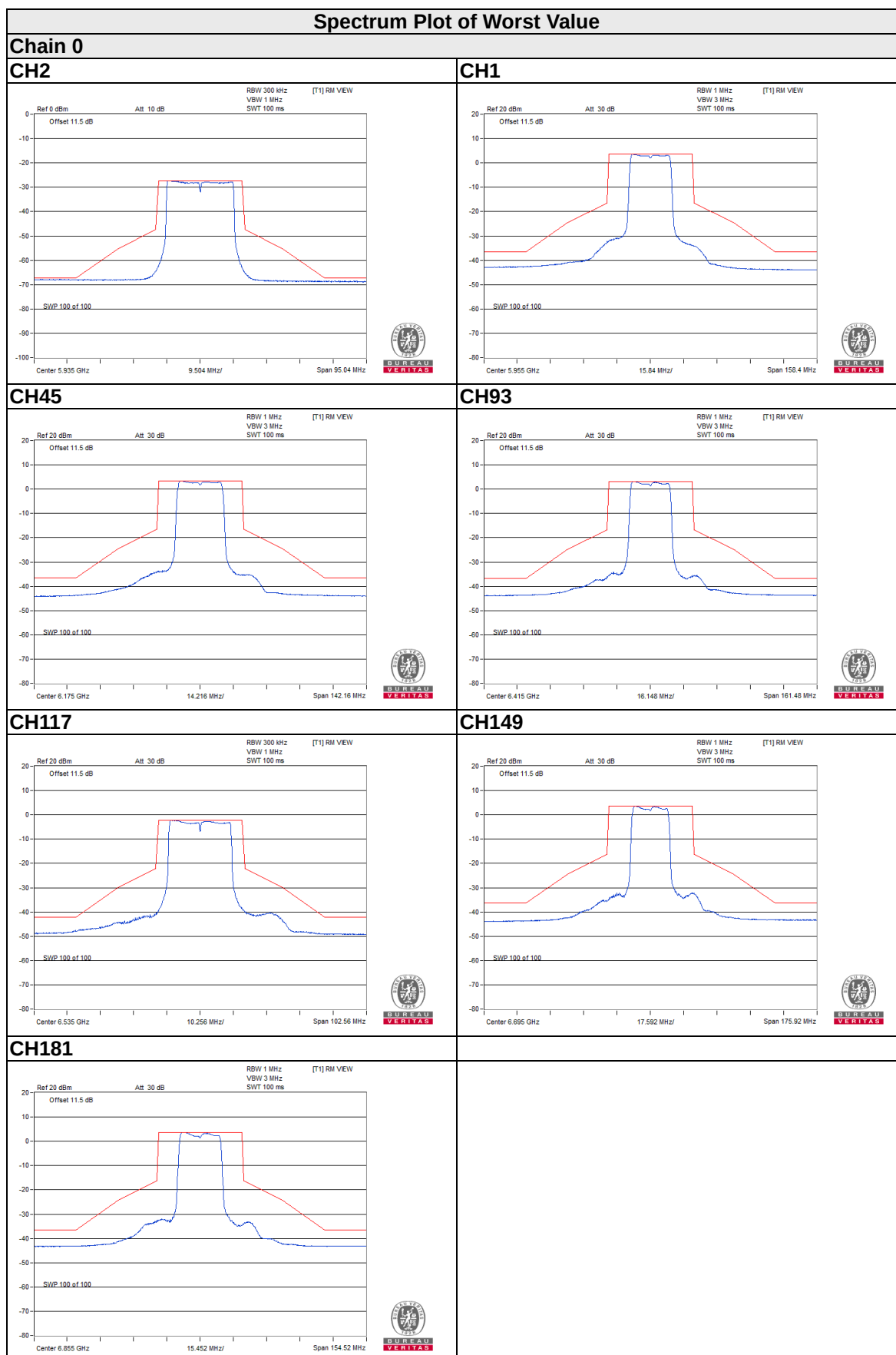


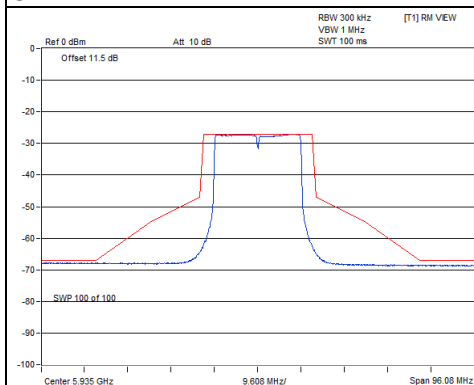
RU242



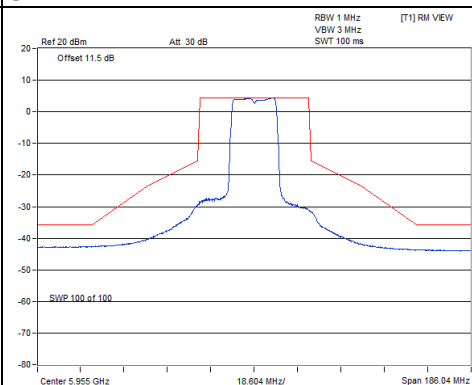
Spectrum Plot of Worst Value

Chain 1

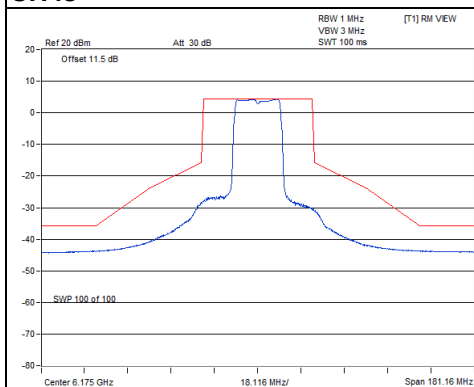
CH2



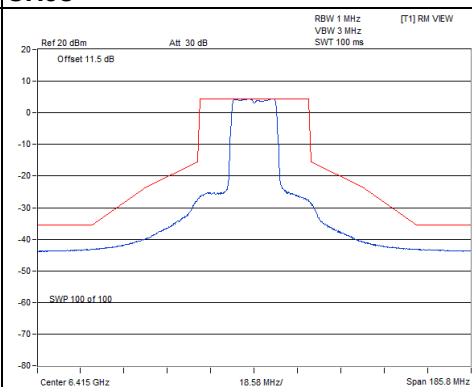
CH1



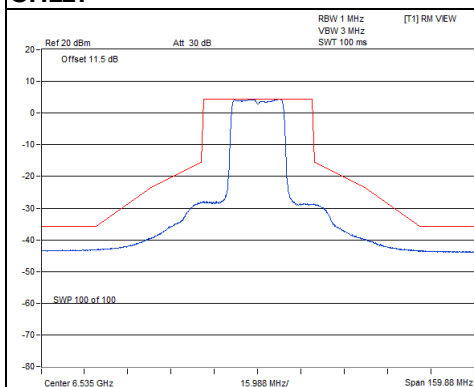
CH45



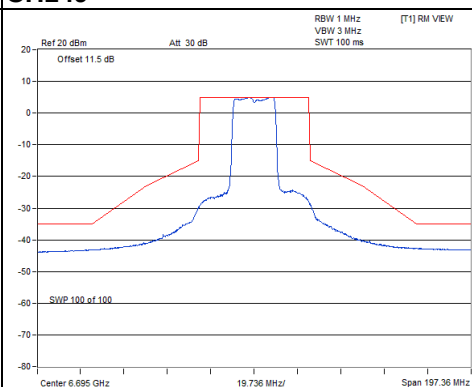
CH93



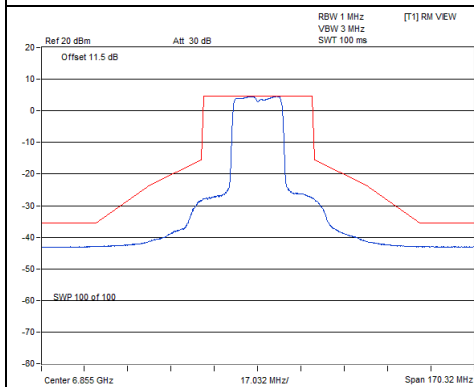
CH117



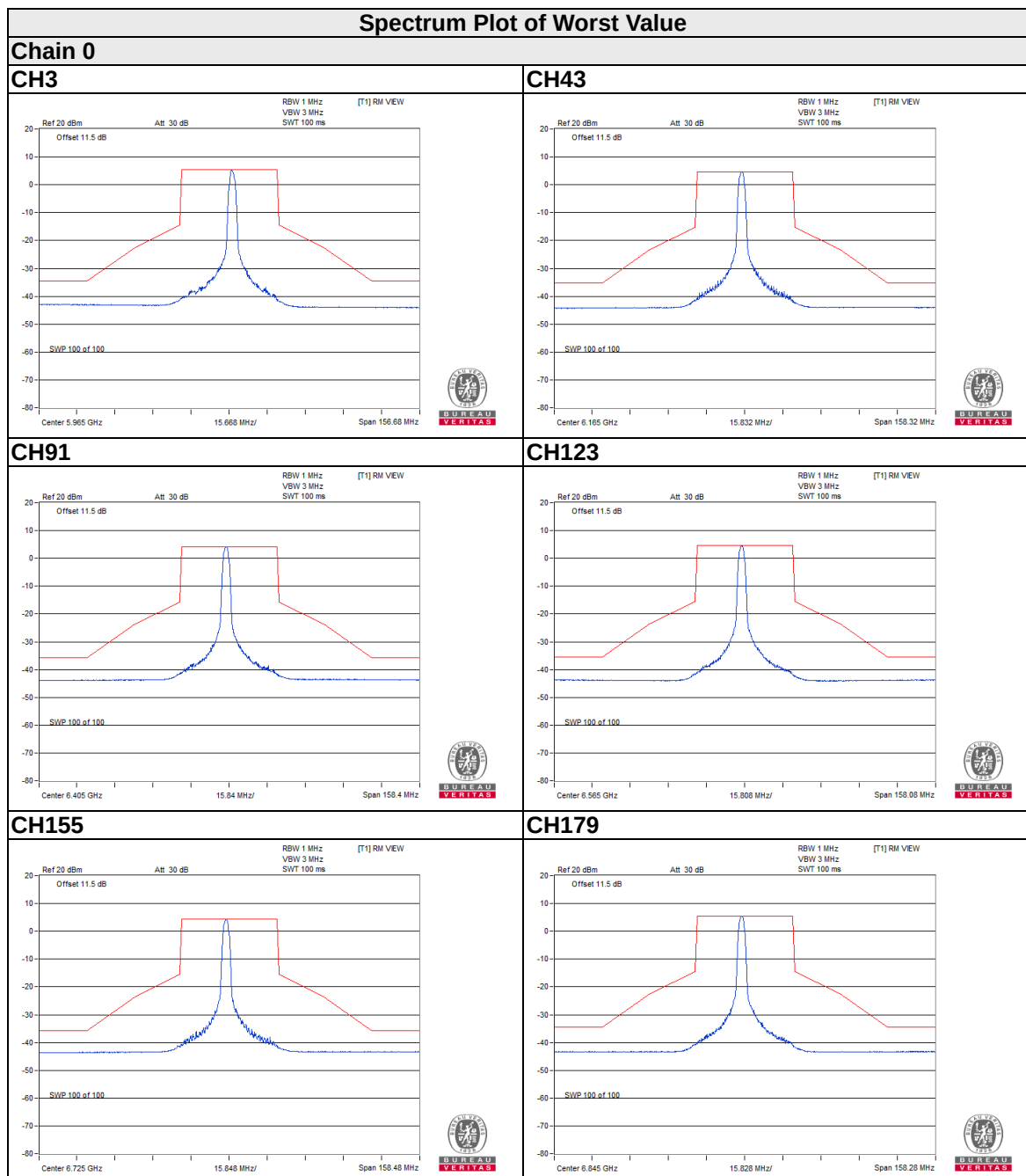
CH149



CH181



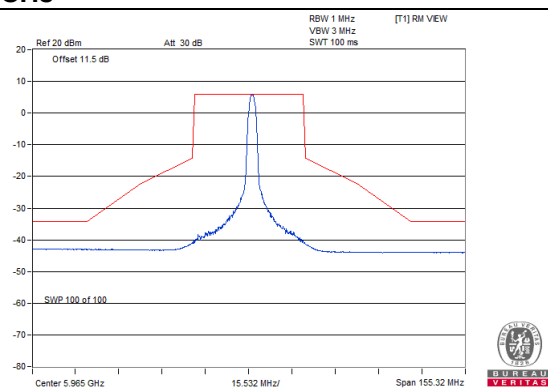
40MHz Preamble RU26



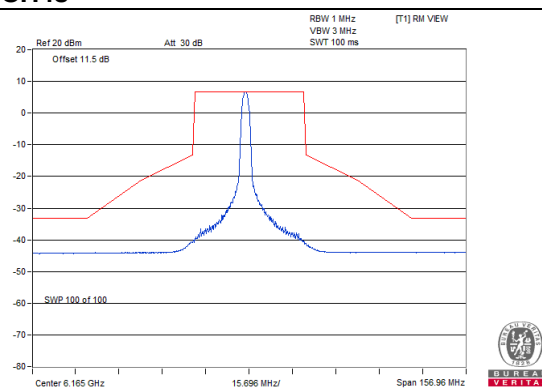
Spectrum Plot of Worst Value

Chain 1

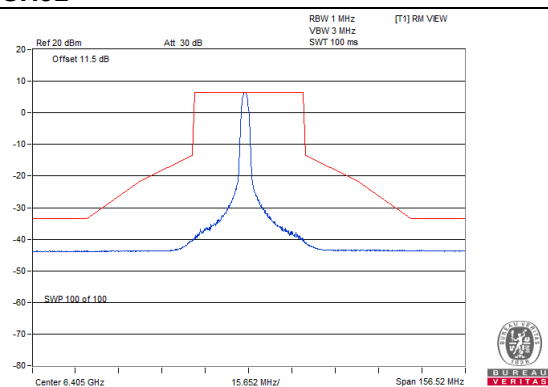
CH3



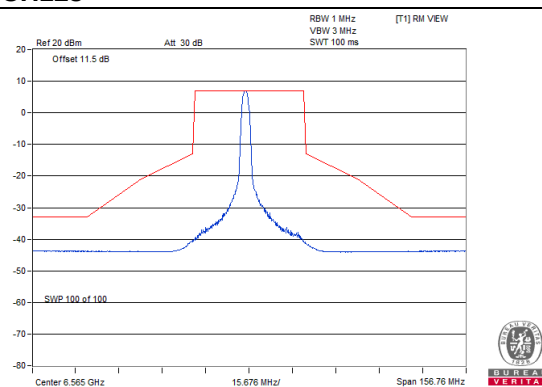
CH43



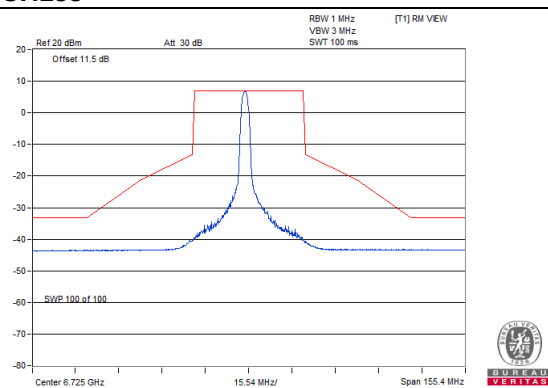
CH91



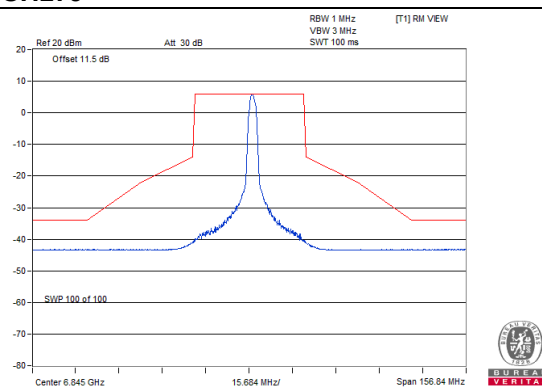
CH123



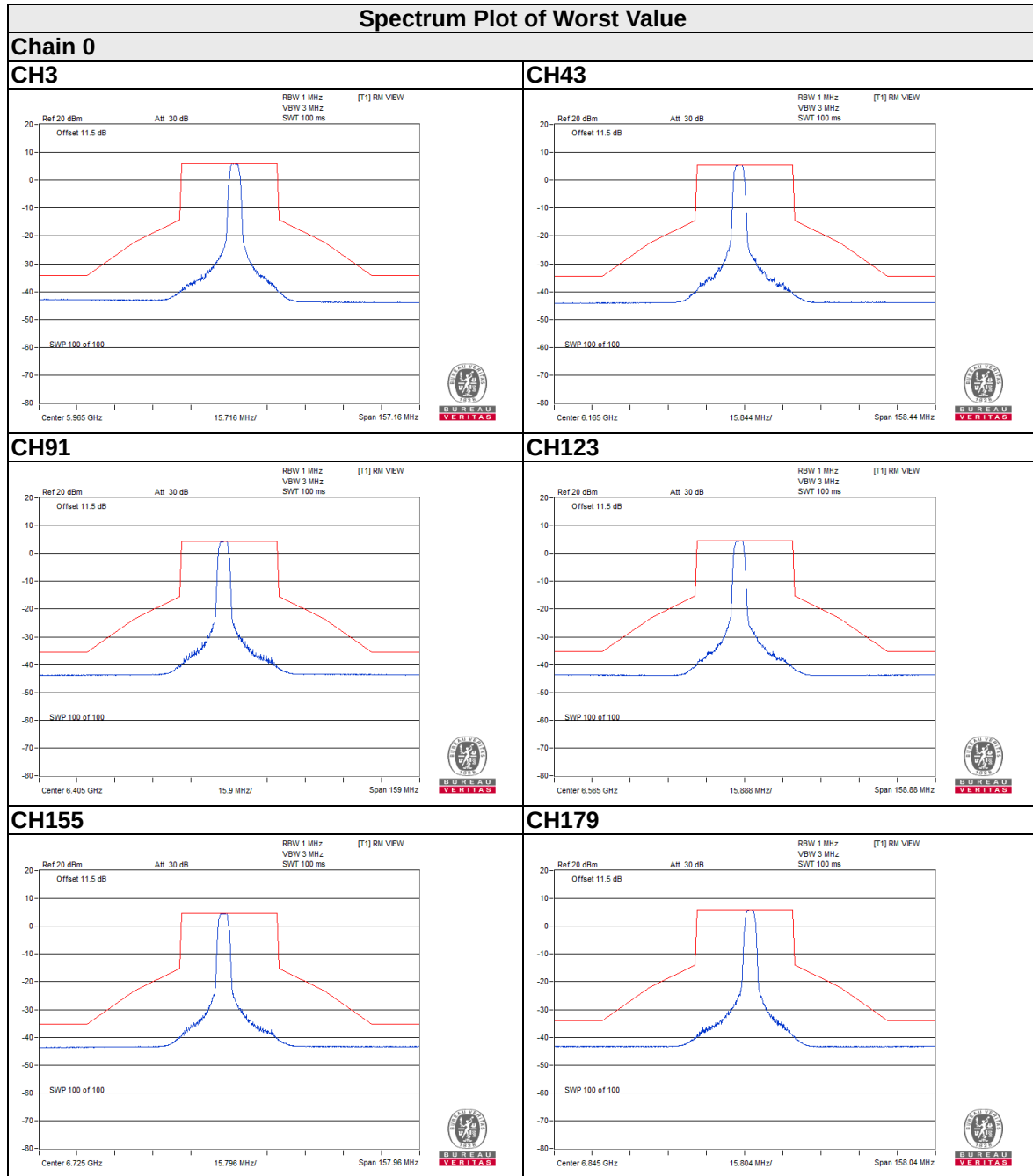
CH155



CH179



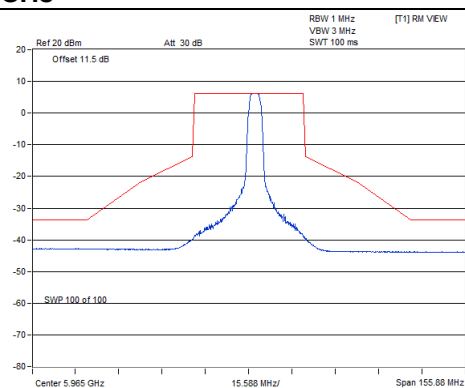
RU52



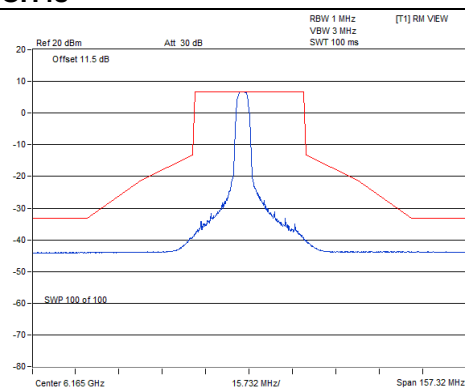
Spectrum Plot of Worst Value

Chain 1

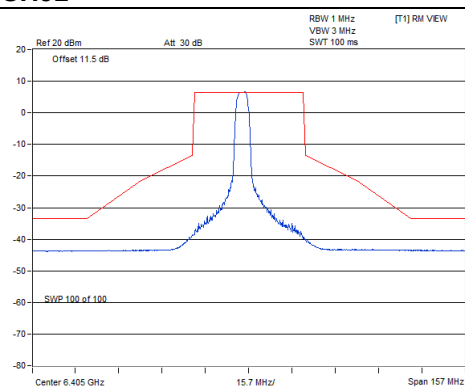
CH3



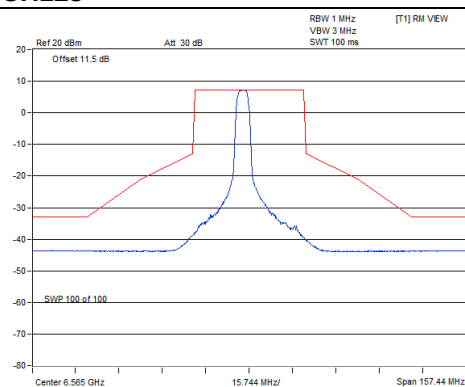
CH43



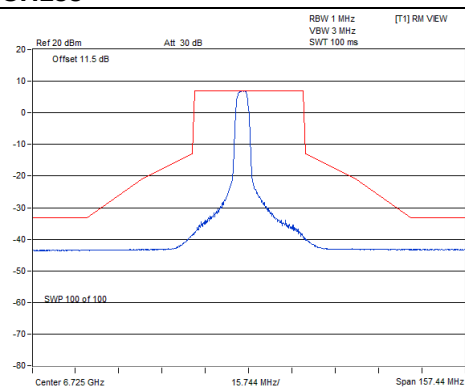
CH91



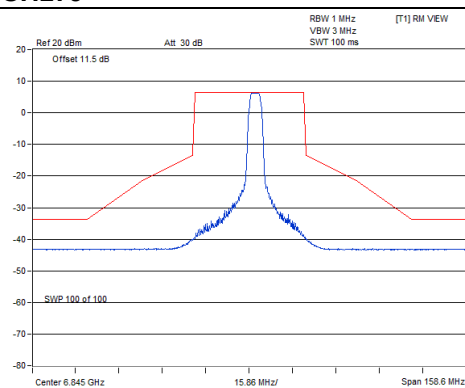
CH123



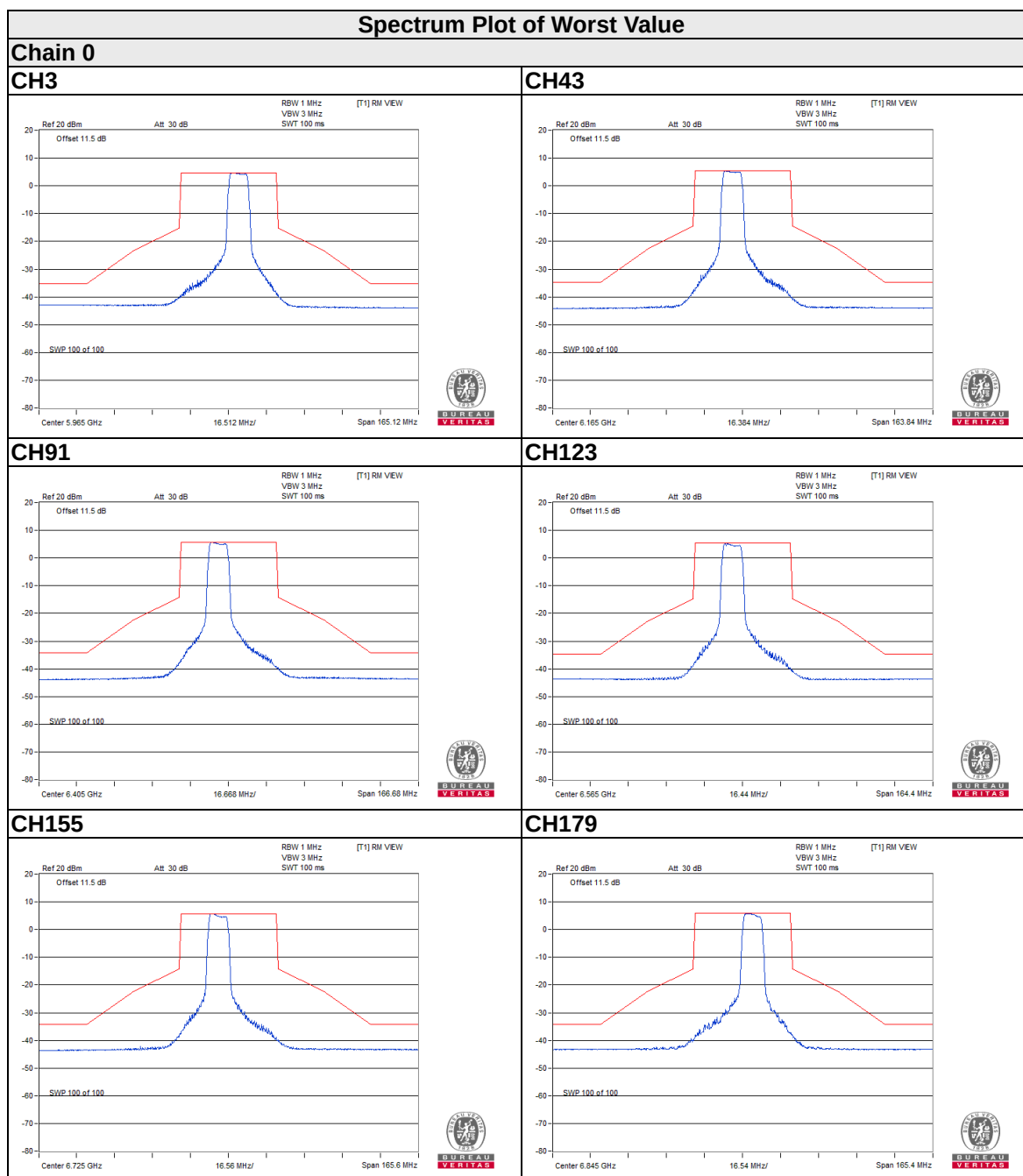
CH155



CH179



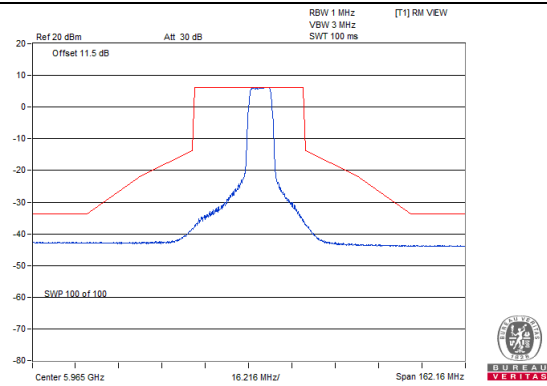
RU106



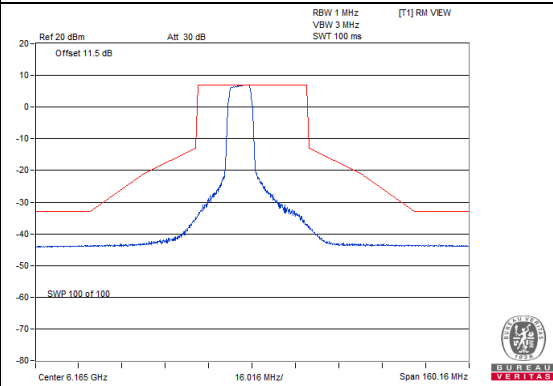
Spectrum Plot of Worst Value

Chain 1

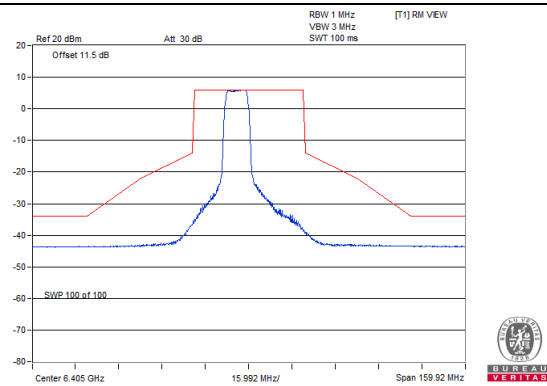
CH3



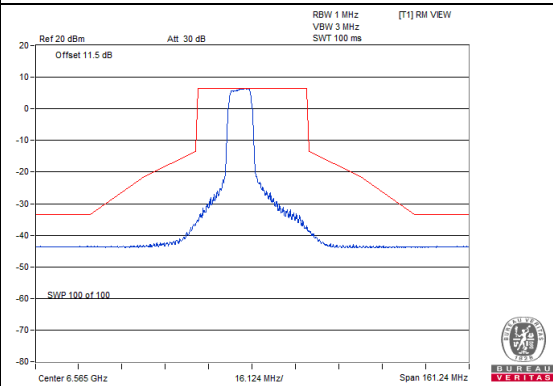
CH43



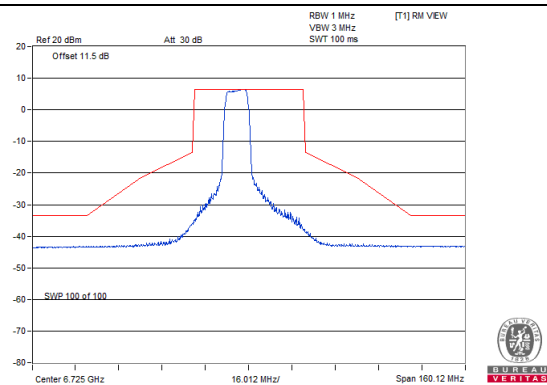
CH91



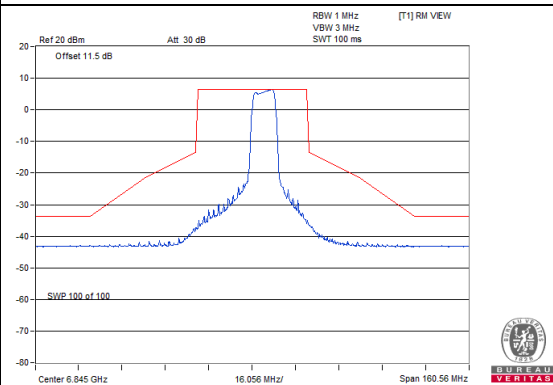
CH123



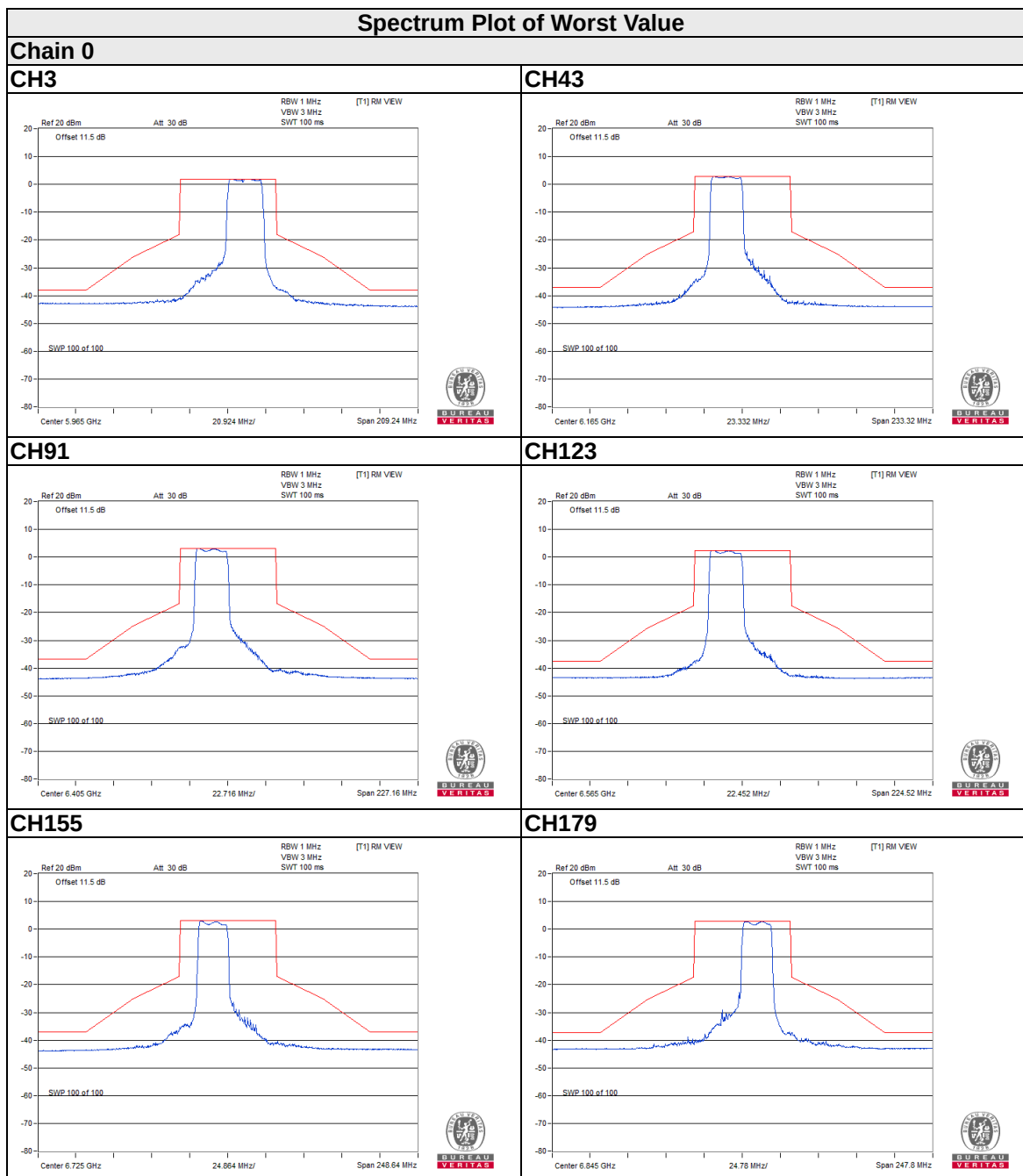
CH155



CH179



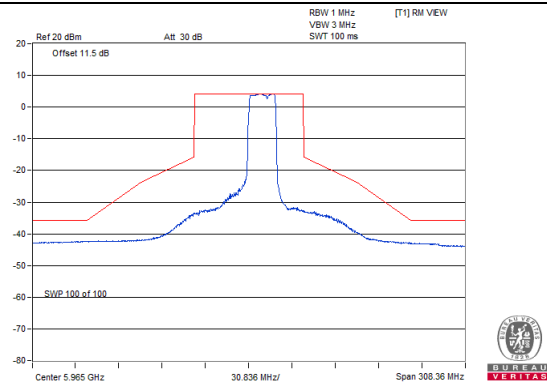
RU242



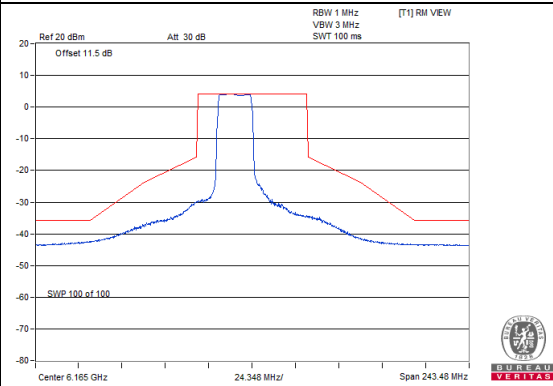
Spectrum Plot of Worst Value

Chain 1

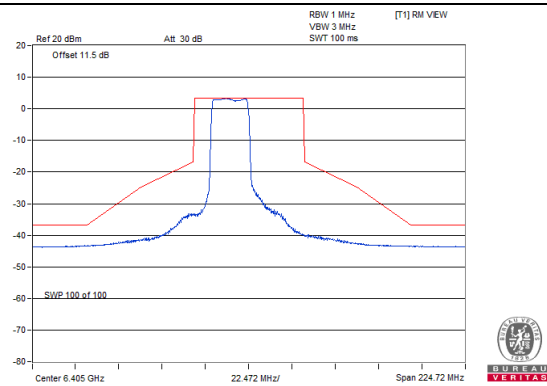
CH3



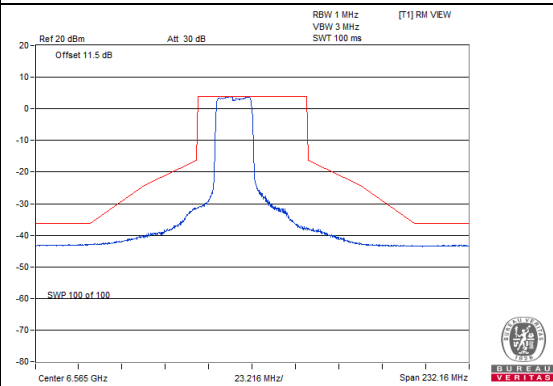
CH43



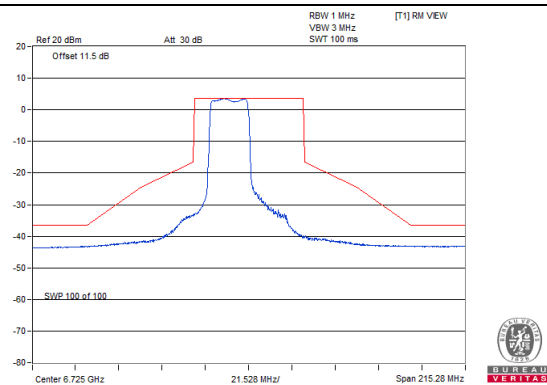
CH91



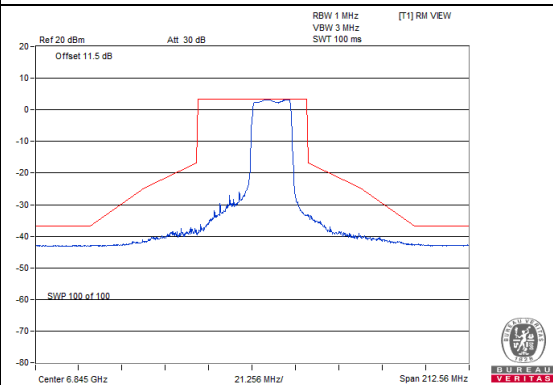
CH123



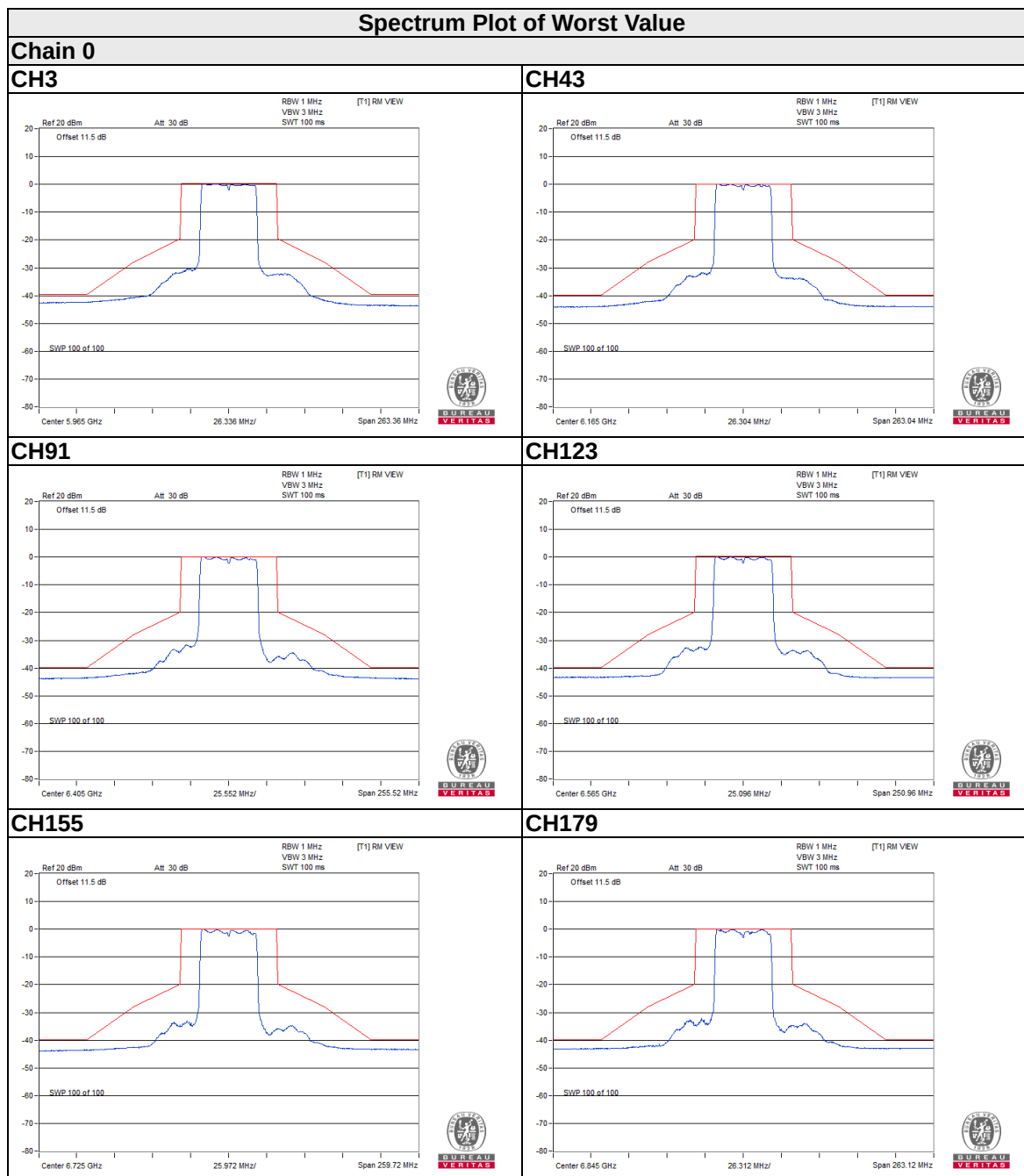
CH155



CH179



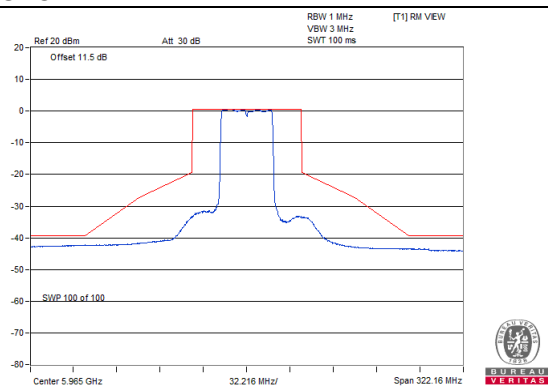
RU484



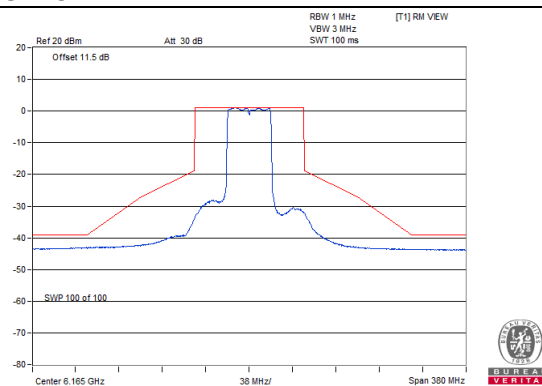
Spectrum Plot of Worst Value

Chain 1

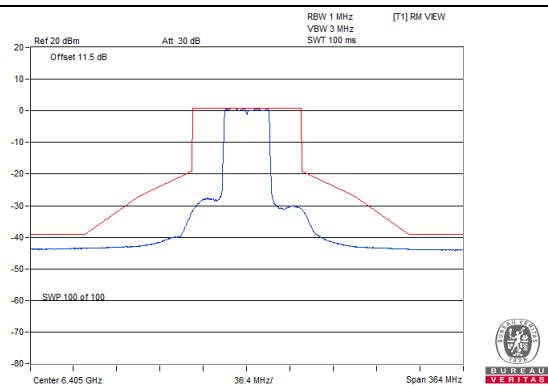
CH3



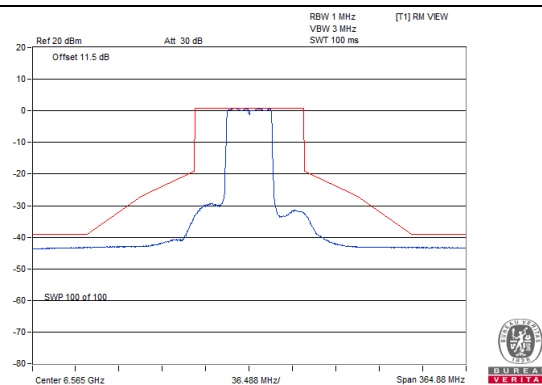
CH43



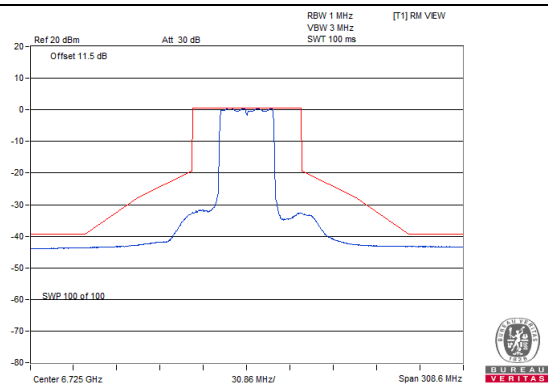
CH91



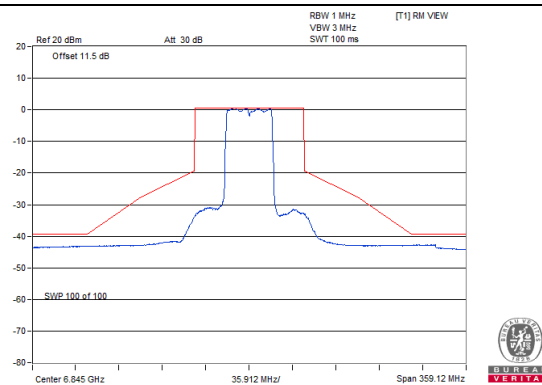
CH123



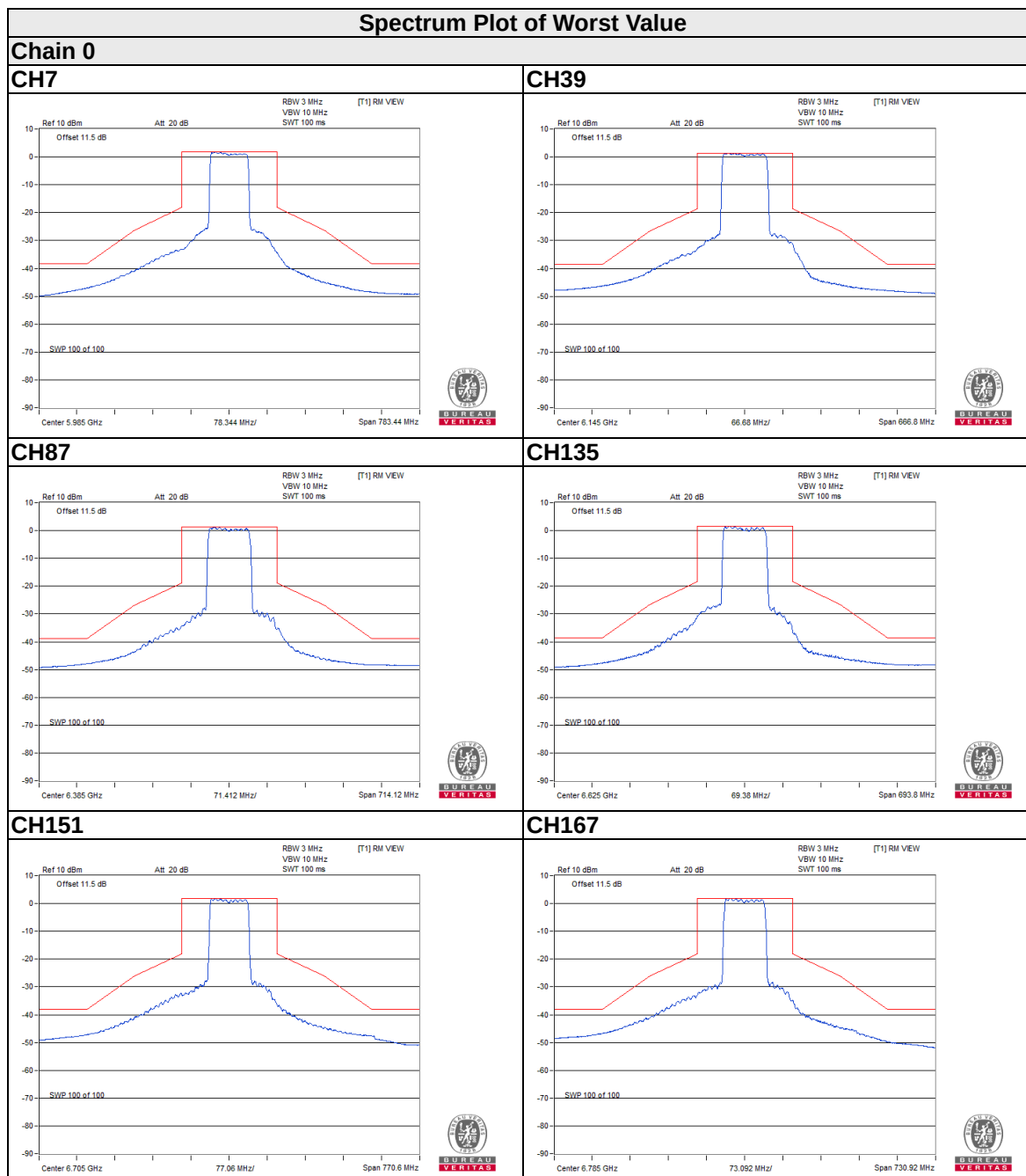
CH155



CH179



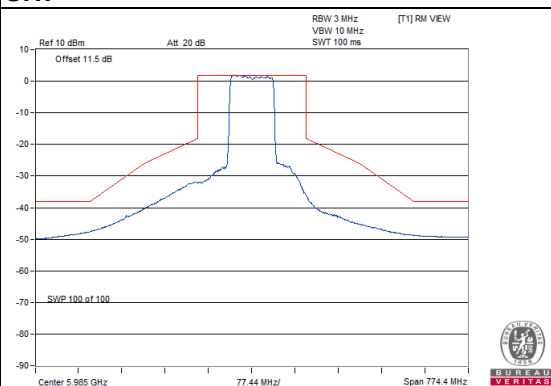
80MHz Preamble RU996



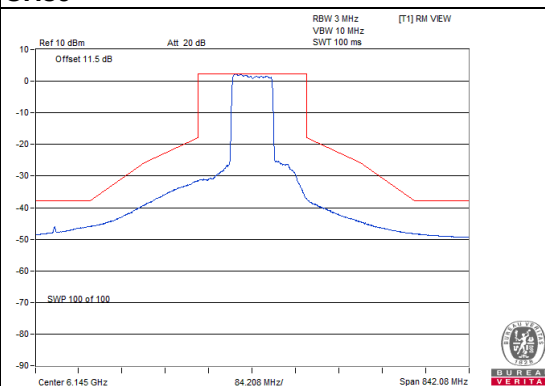
Spectrum Plot of Worst Value

Chain 1

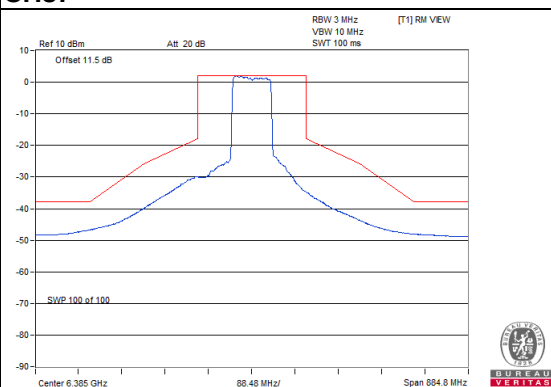
CH7



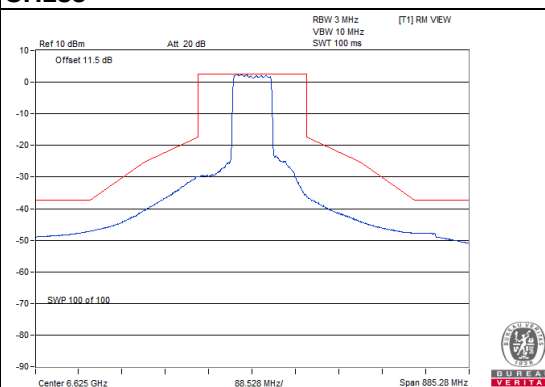
CH39



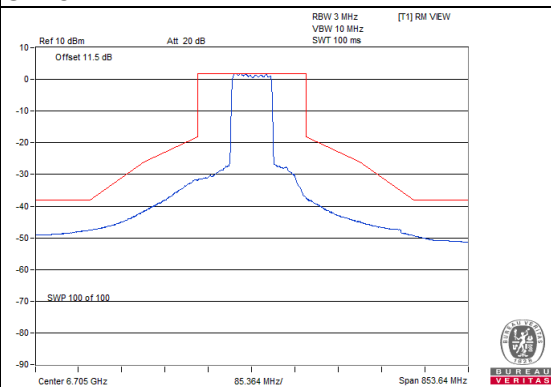
CH87



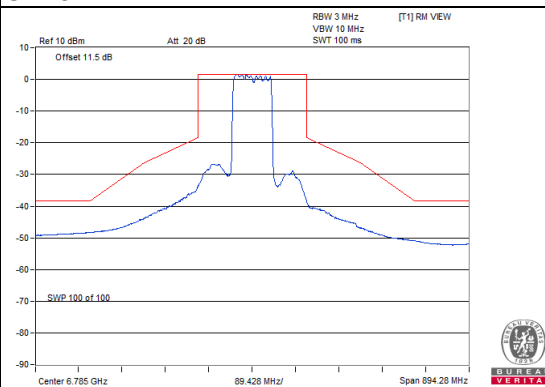
CH135



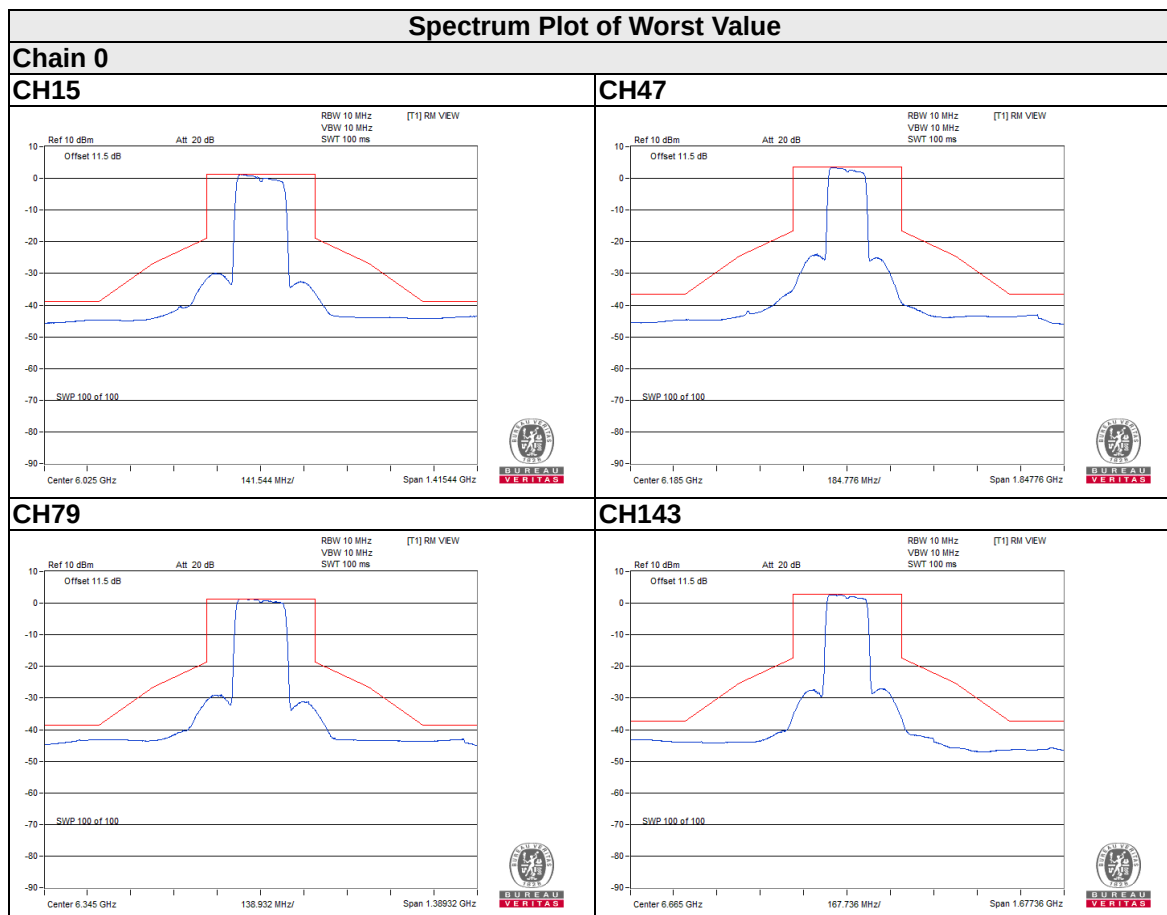
CH151



CH167



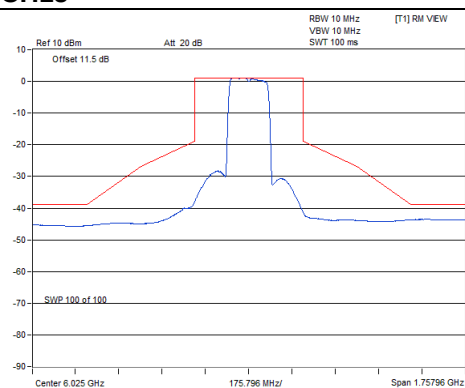
160MHz Preamble RU1992



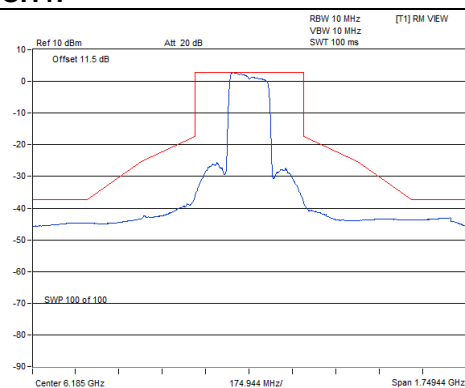
Spectrum Plot of Worst Value

Chain 1

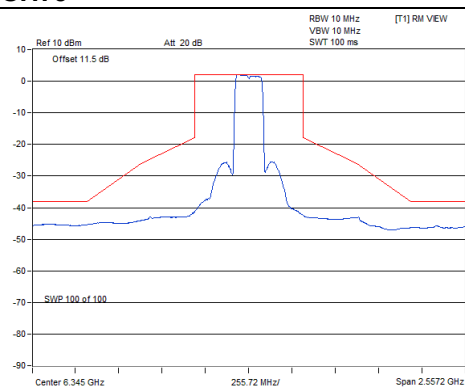
CH15



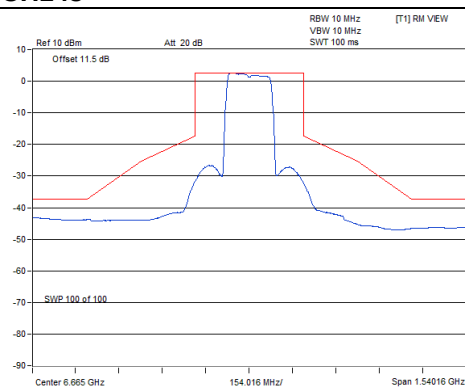
CH47



CH79

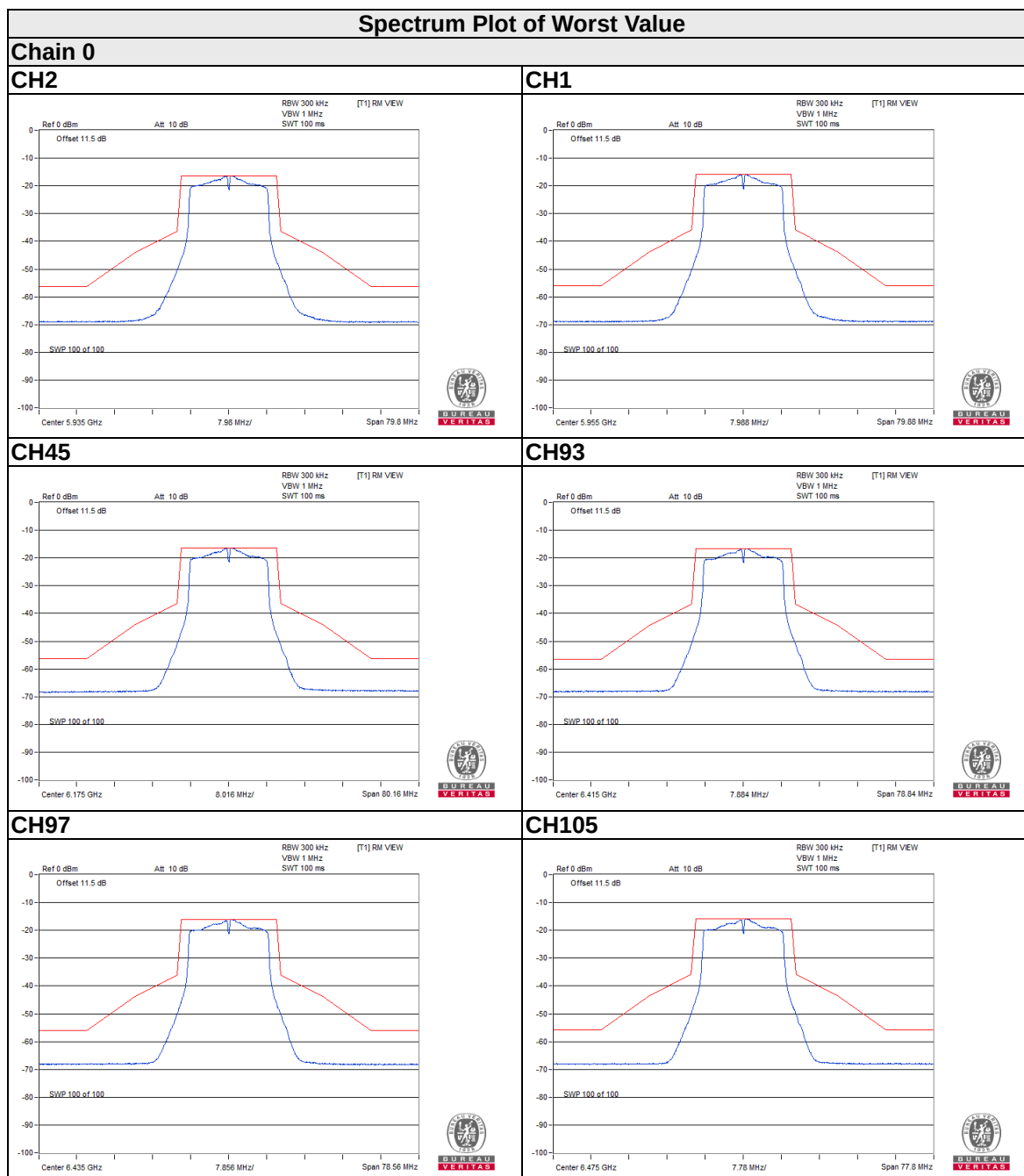


CH143



4.2.7 Test Results (Mode 2)

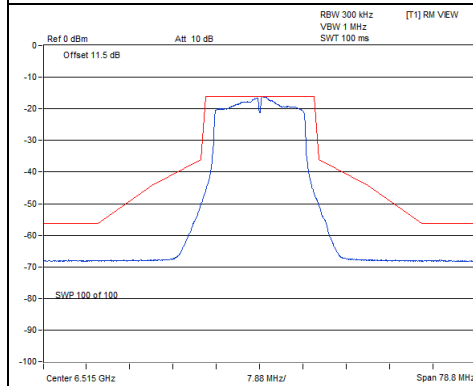
802.11a



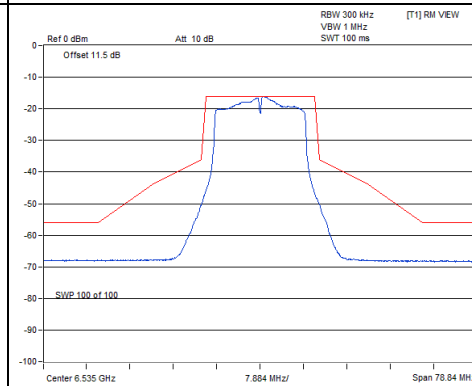
Spectrum Plot of Worst Value

Chain 0

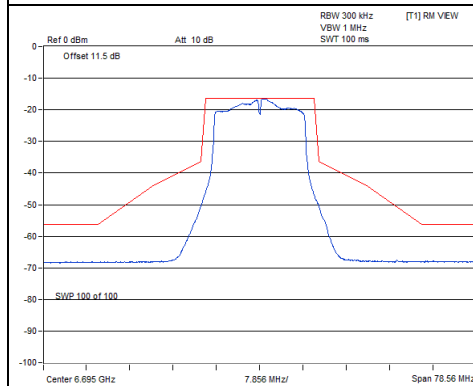
CH113



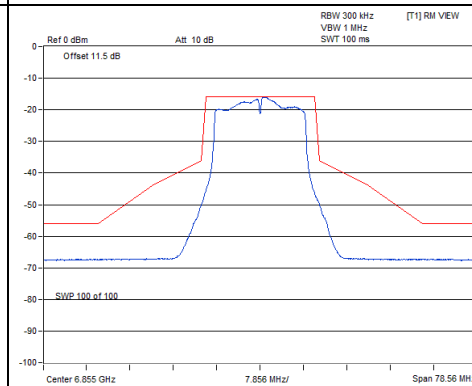
CH117



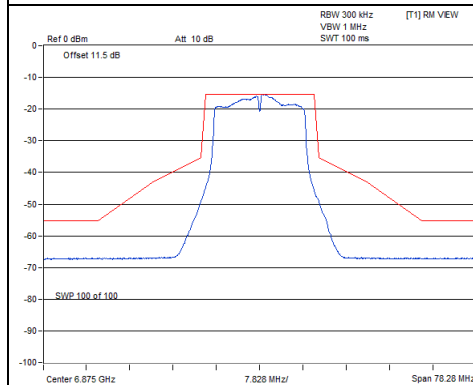
C149



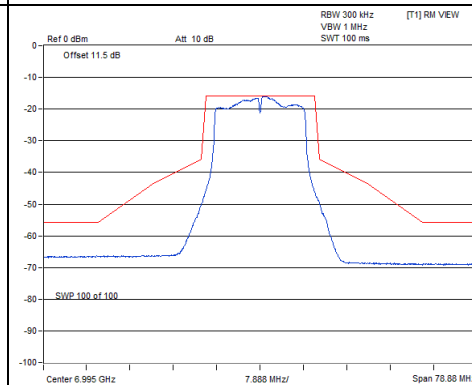
CH181



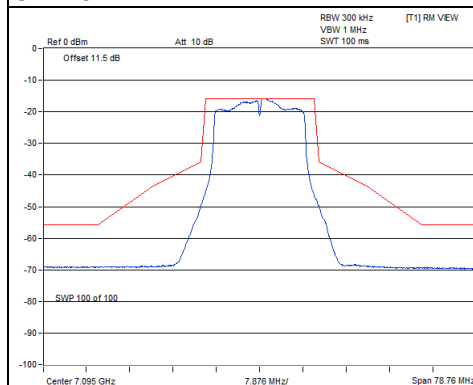
CH185



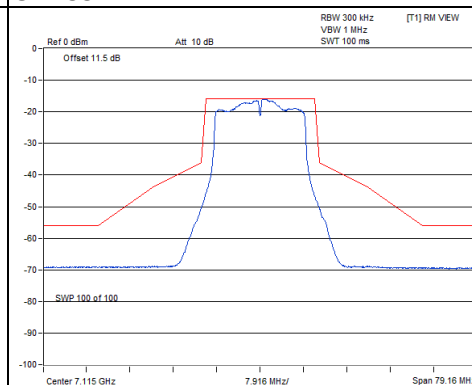
CH209



CH229



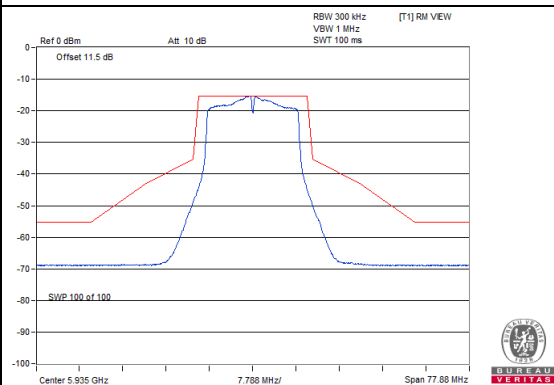
CH233



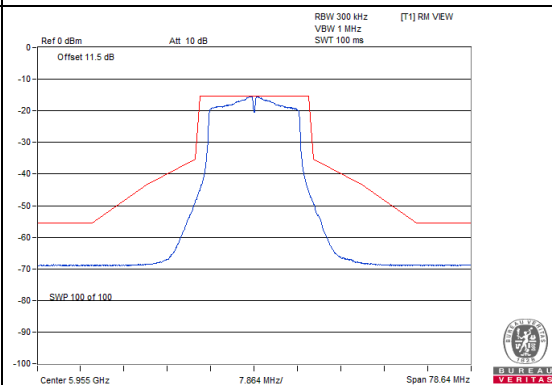
Spectrum Plot of Worst Value

Chain 1

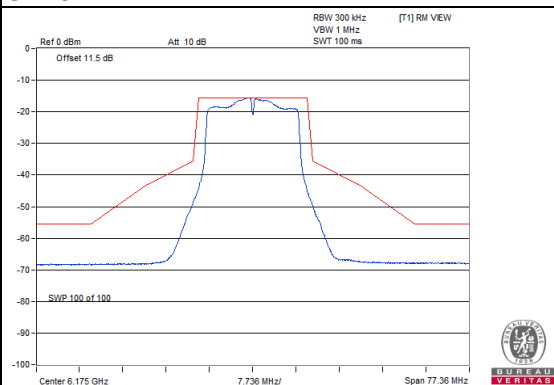
CH2



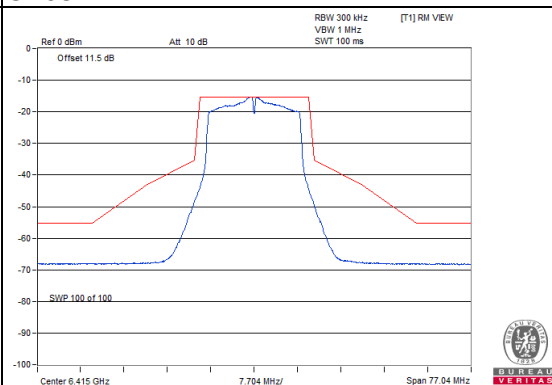
CH1



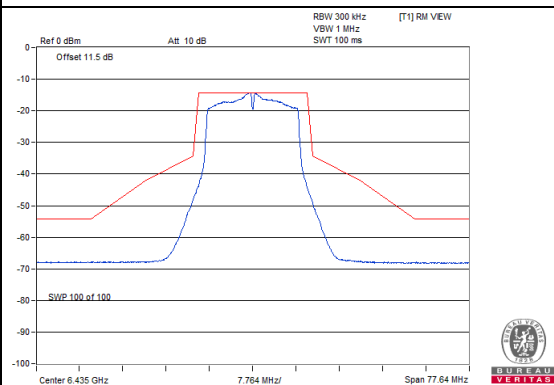
CH45



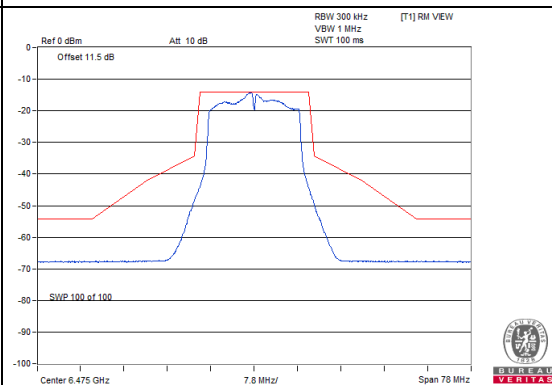
CH93



CH97



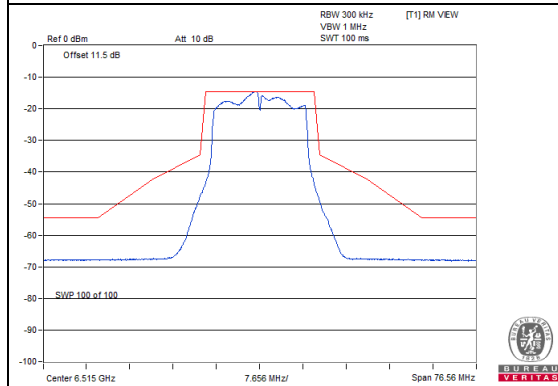
CH105



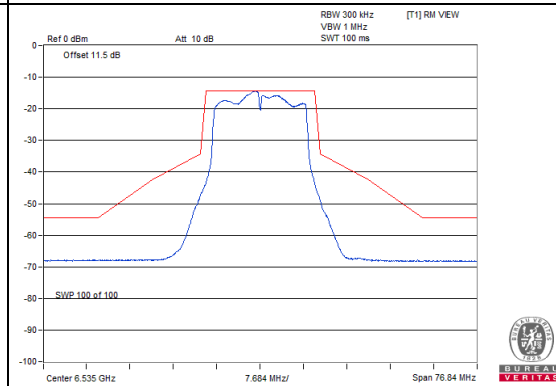
Spectrum Plot of Worst Value

Chain 1

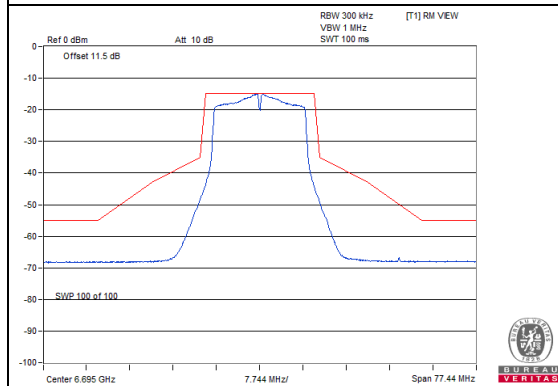
CH113



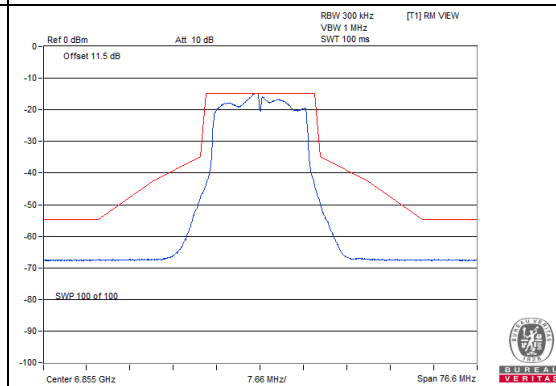
CH117



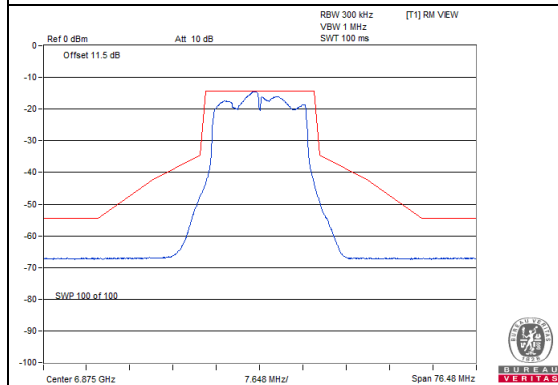
C149



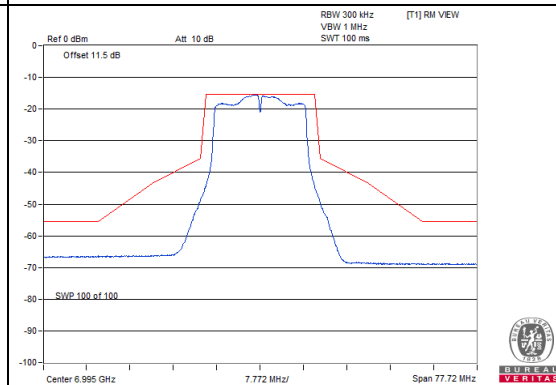
CH181



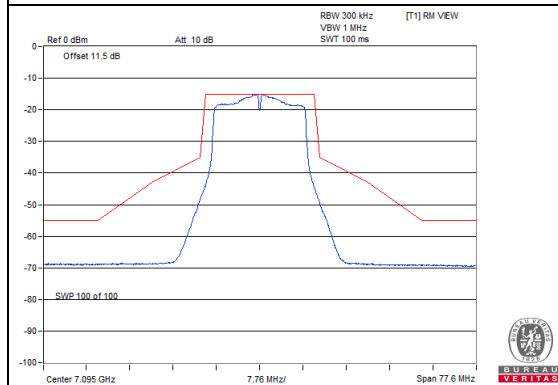
CH185



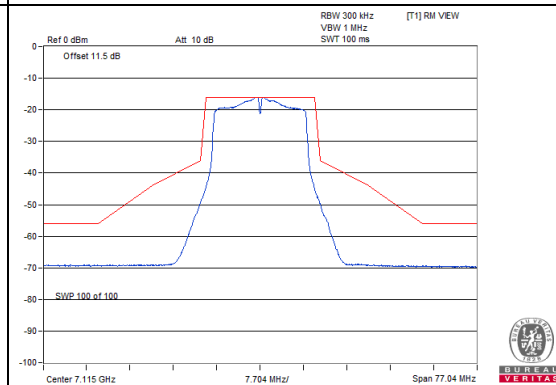
CH209



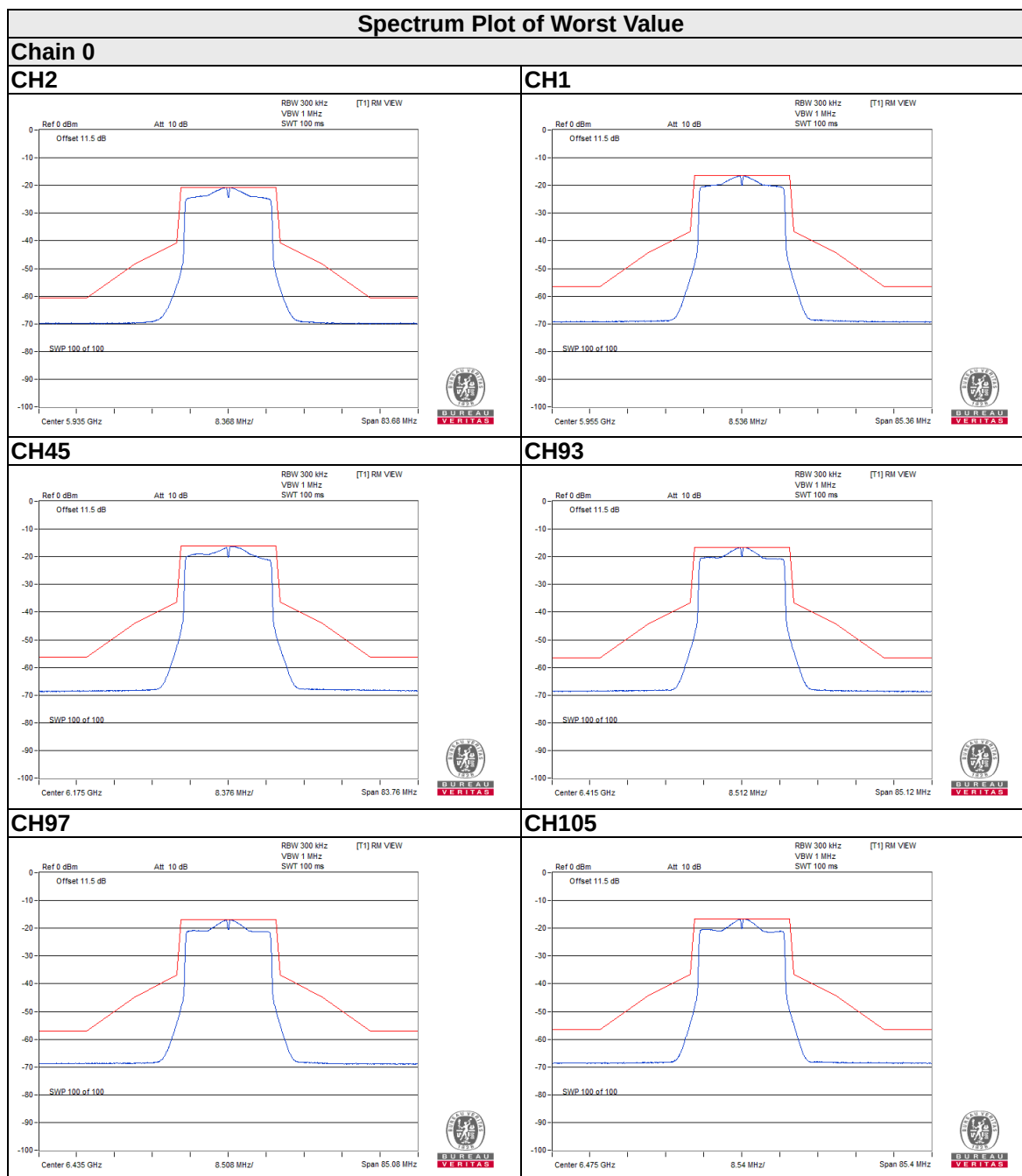
CH229



CH233



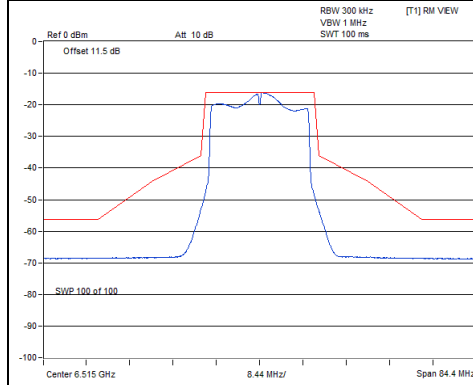
802.11ax (HE20)



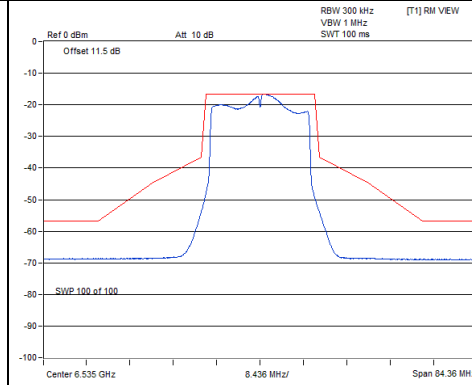
Spectrum Plot of Worst Value

Chain 0

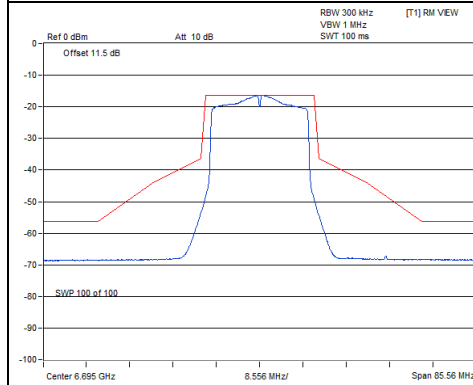
CH113



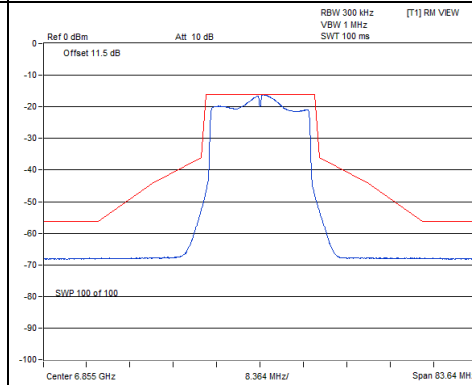
CH117



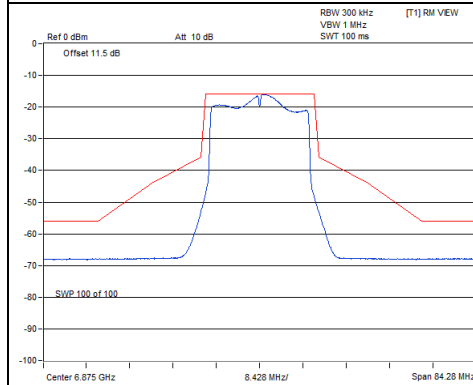
C149



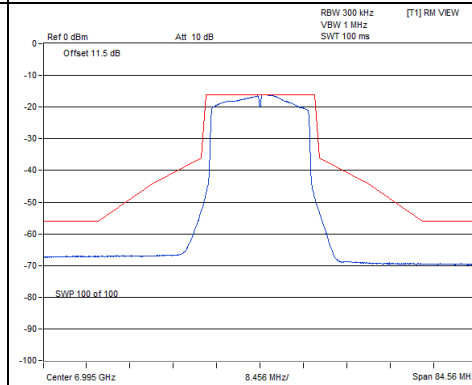
CH181



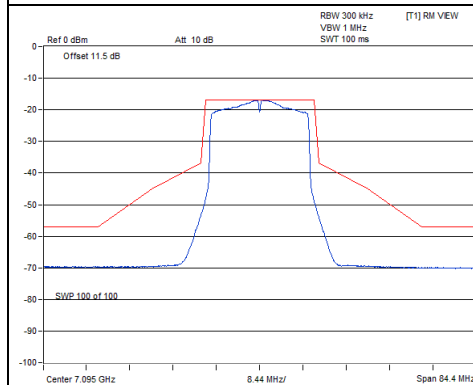
CH185



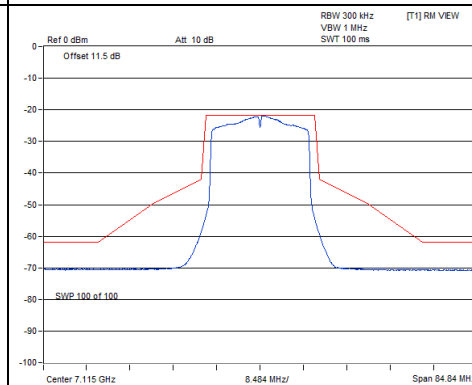
CH209



CH229



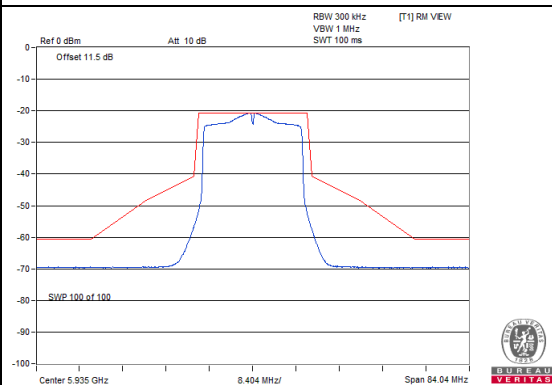
CH233



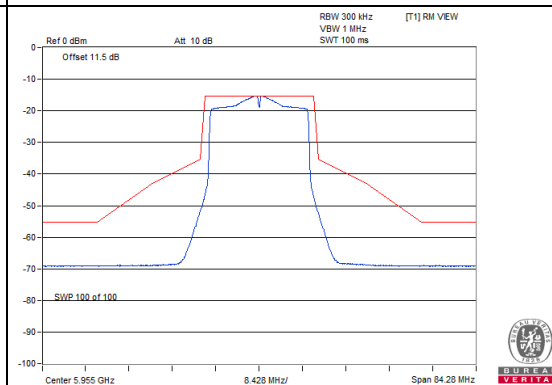
Spectrum Plot of Worst Value

Chain 1

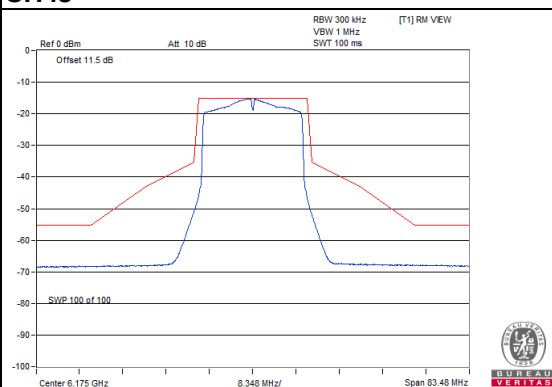
CH2



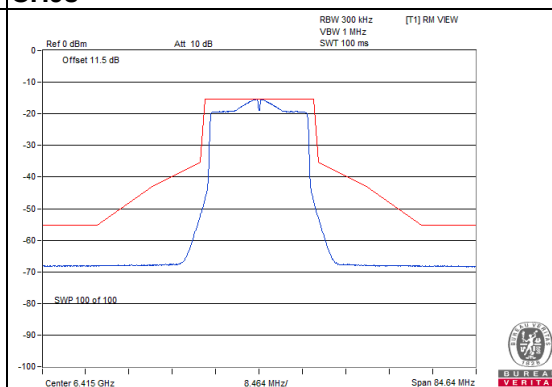
CH1



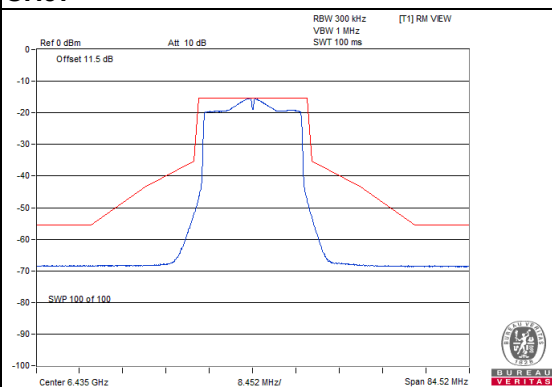
CH45



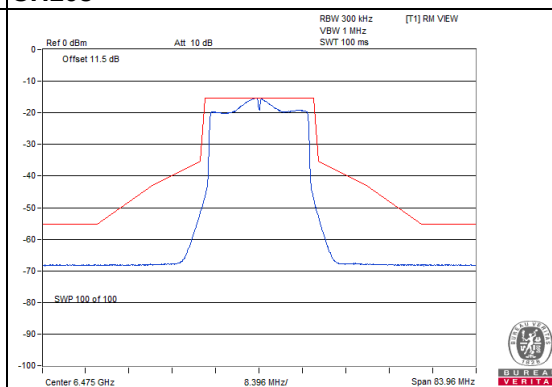
CH93



CH97



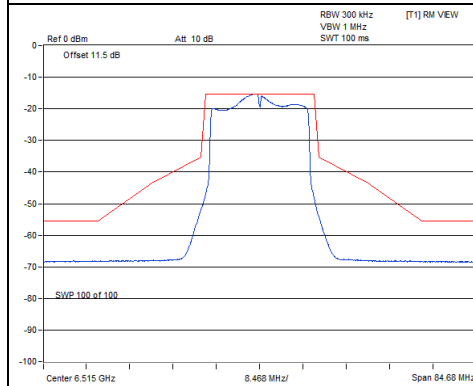
CH105



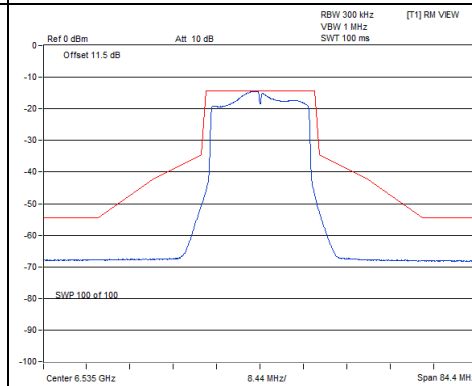
Spectrum Plot of Worst Value

Chain 1

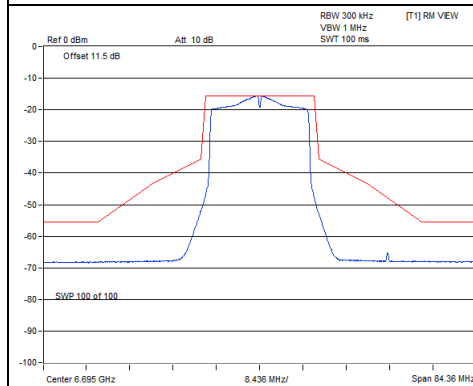
CH113



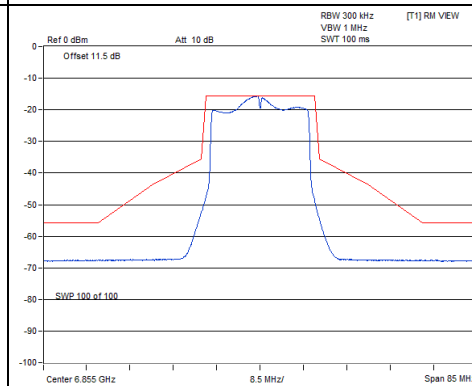
CH117



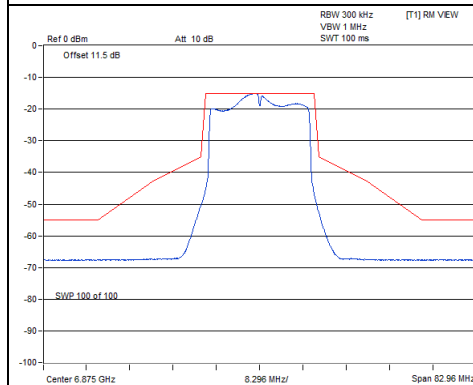
C149



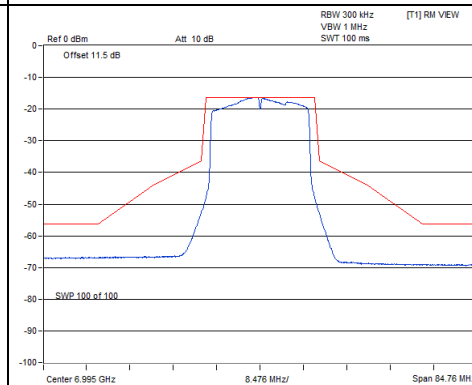
CH181



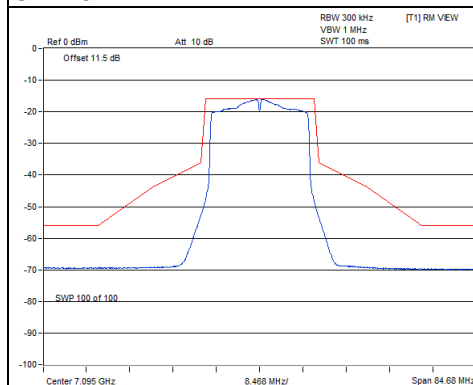
CH185



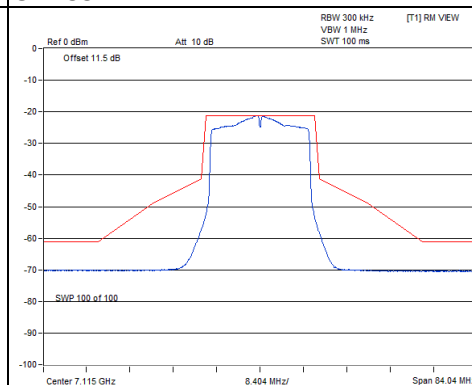
CH209



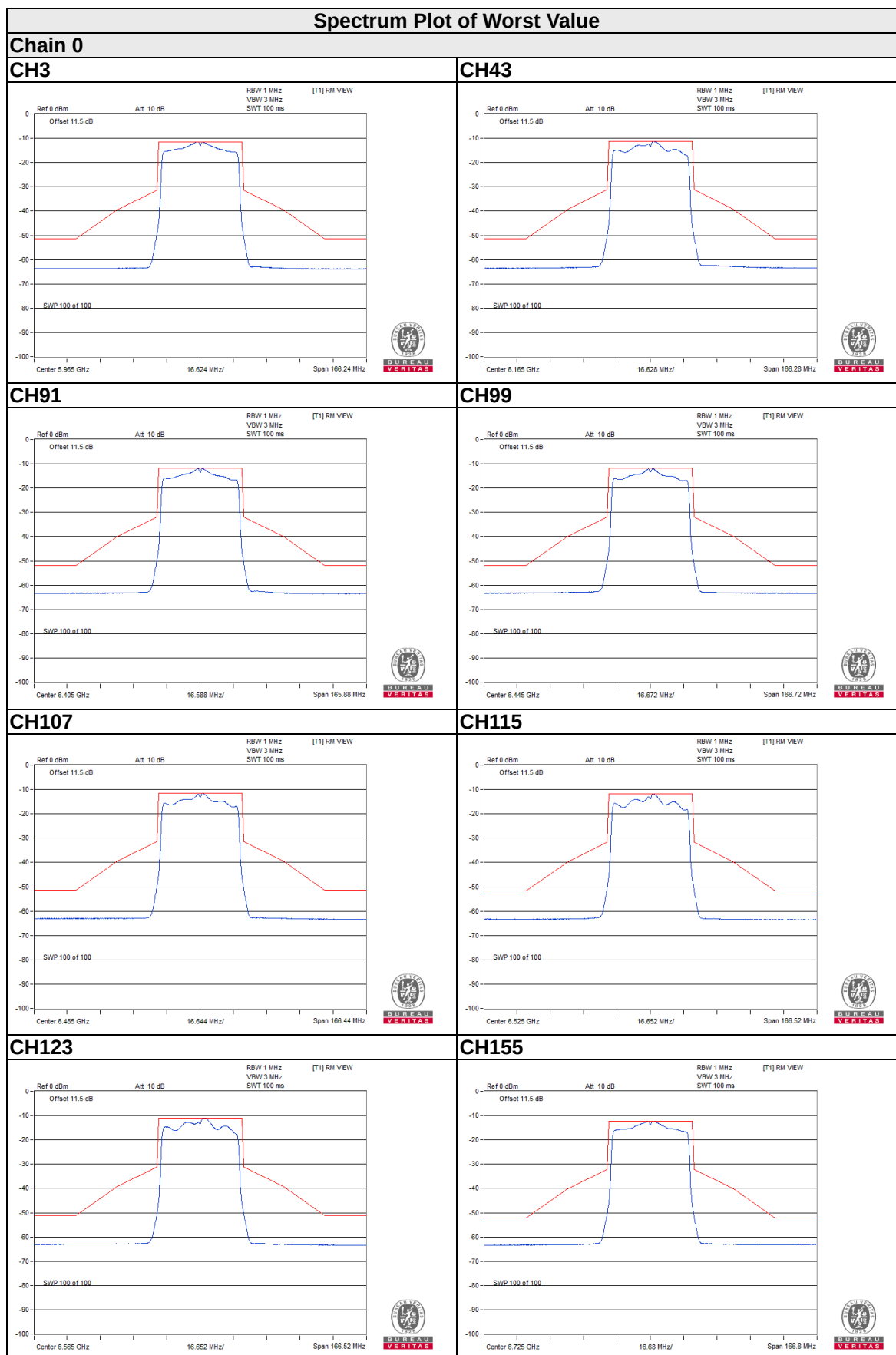
CH229



CH233



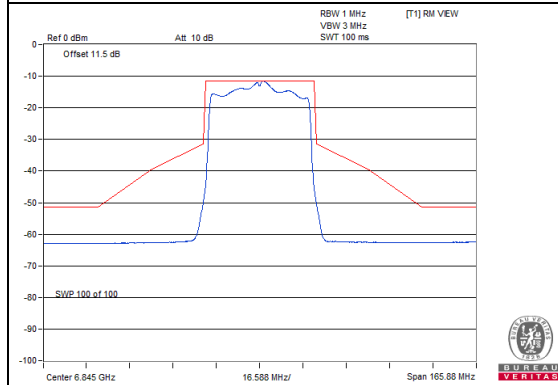
802.11ax (HE40)



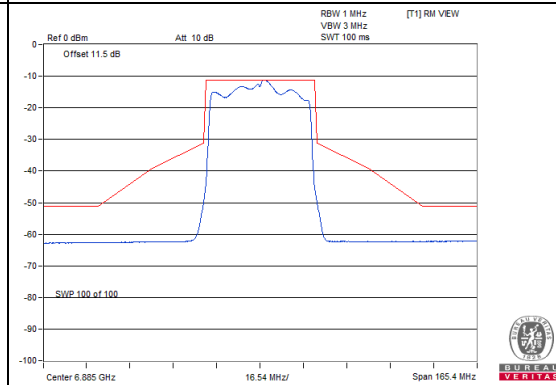
Spectrum Plot of Worst Value

Chain 0

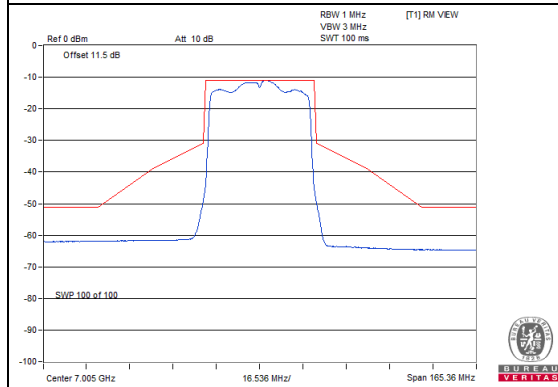
CH179



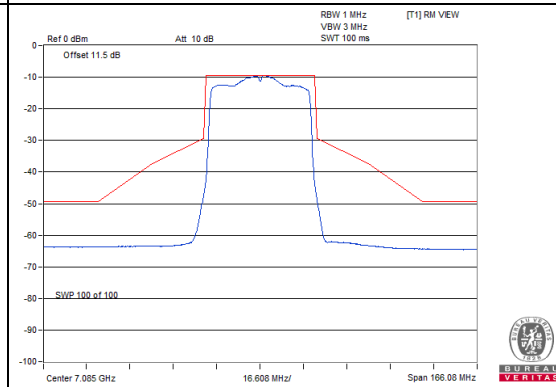
CH187



CH211



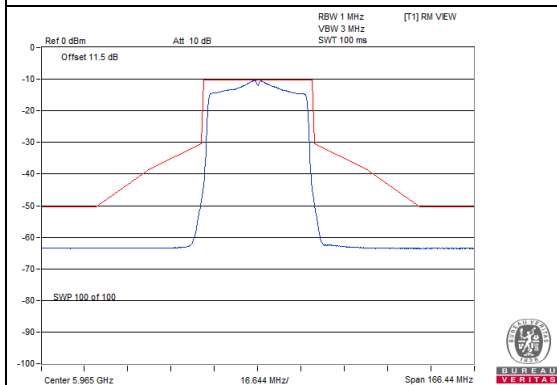
CH227



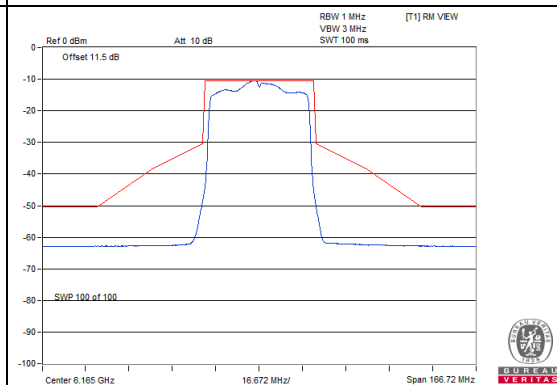
Spectrum Plot of Worst Value

Chain 1

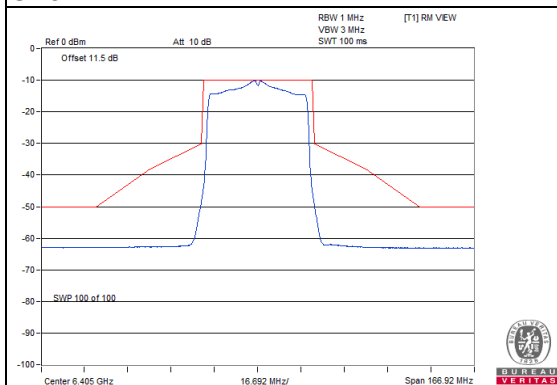
CH3



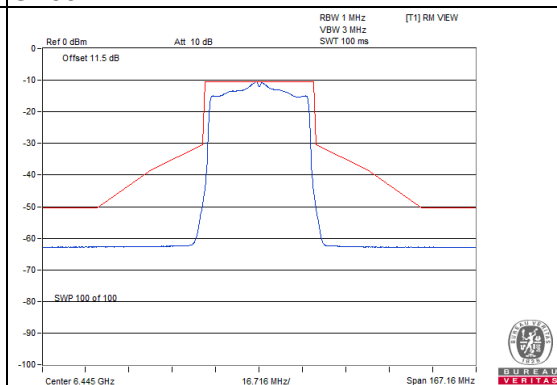
CH43



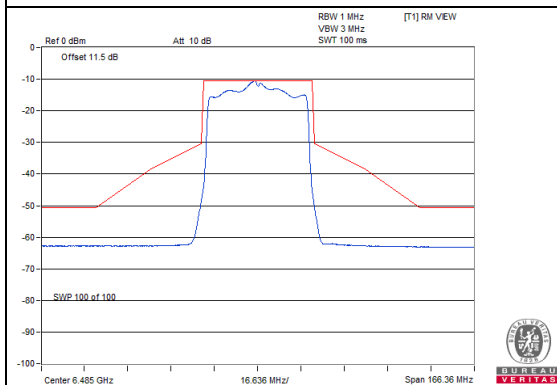
CH91



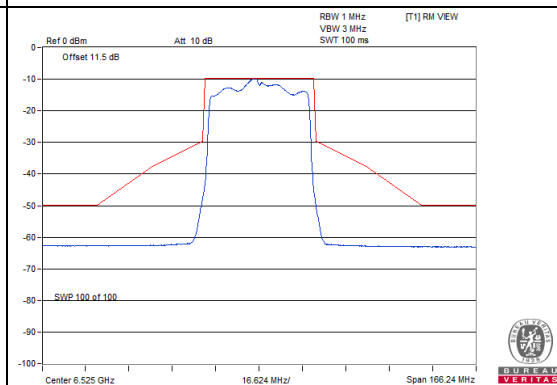
CH99



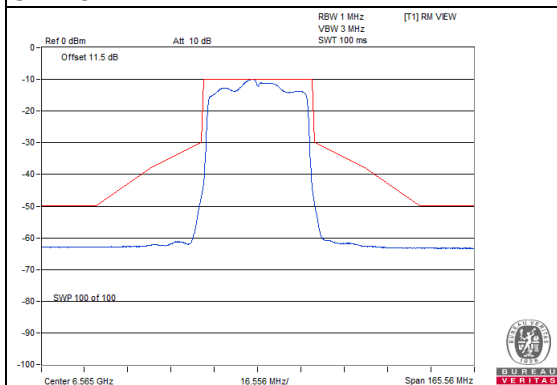
CH107



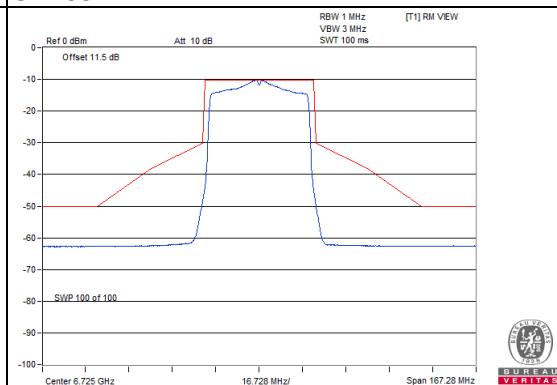
CH115



CH123



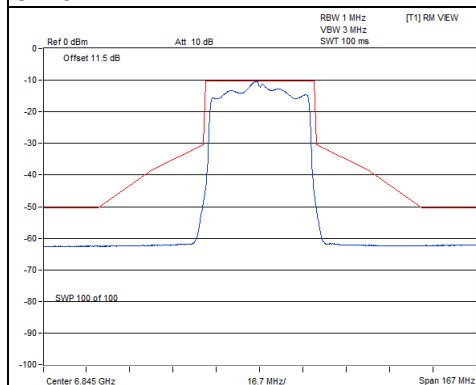
CH155



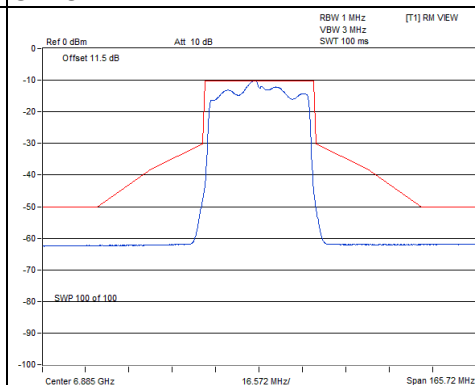
Spectrum Plot of Worst Value

Chain 1

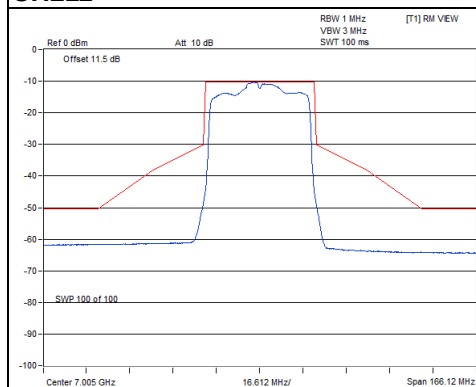
C179



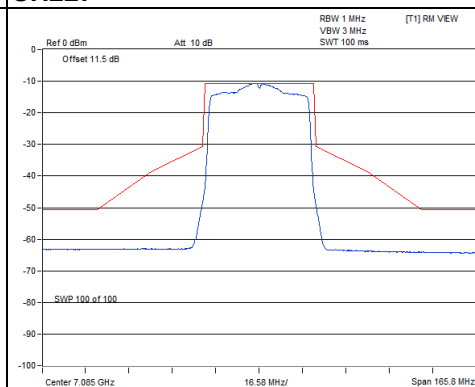
CH187



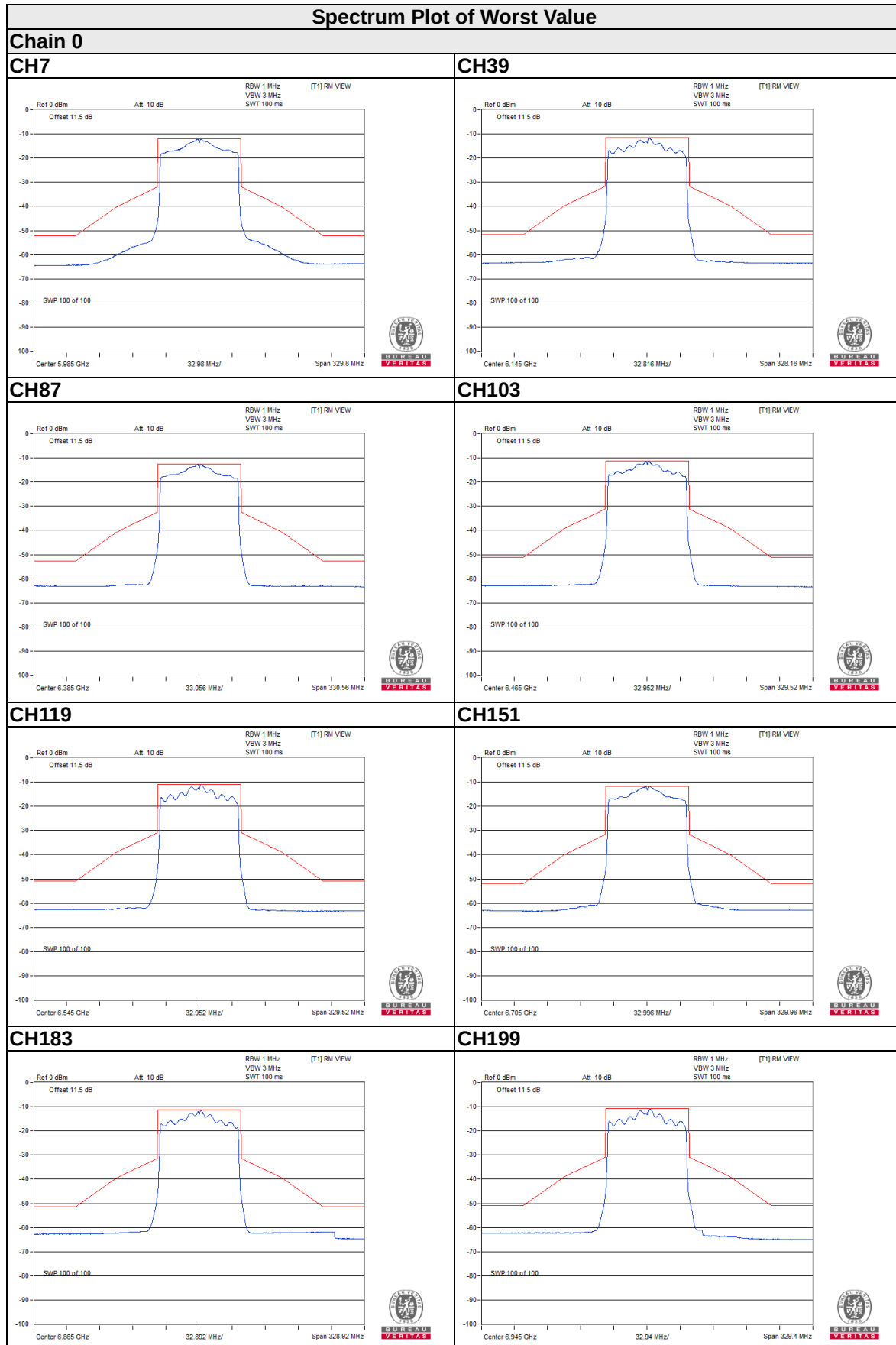
CH211



CH227



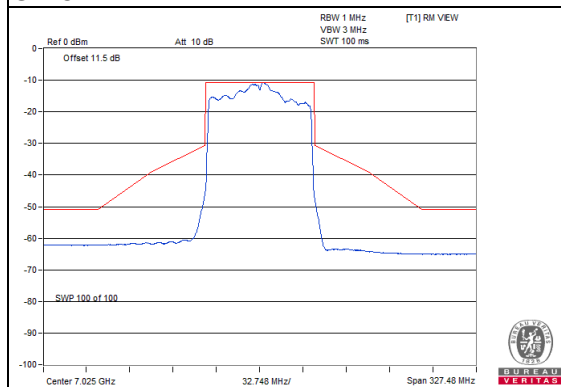
802.11ax (HE80)



Spectrum Plot of Worst Value

Chain 0

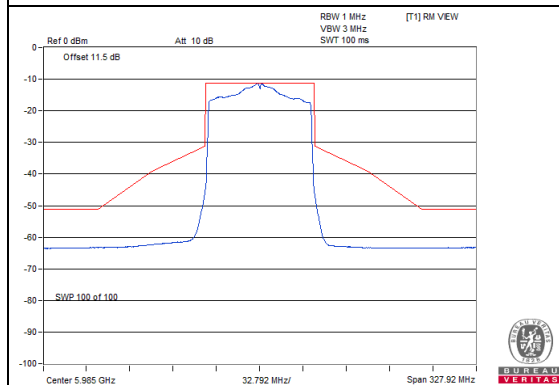
C215



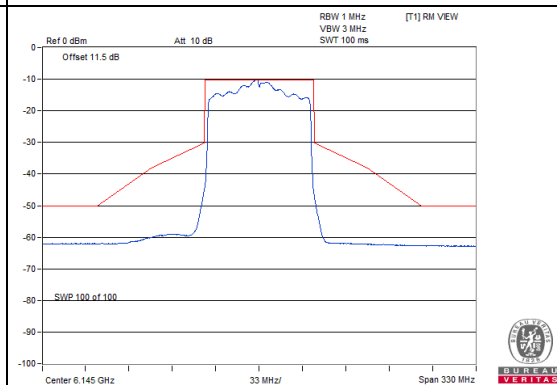
Spectrum Plot of Worst Value

Chain 1

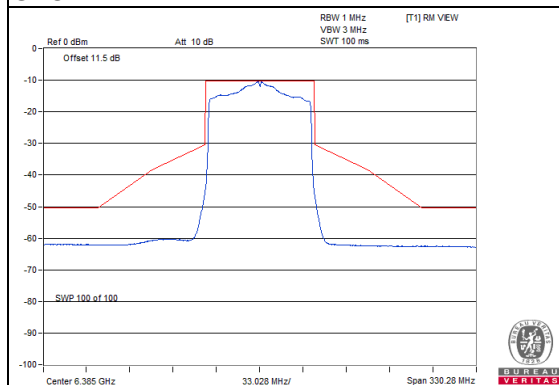
CH7



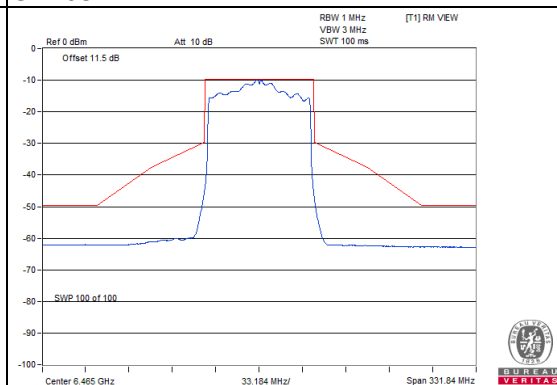
CH39



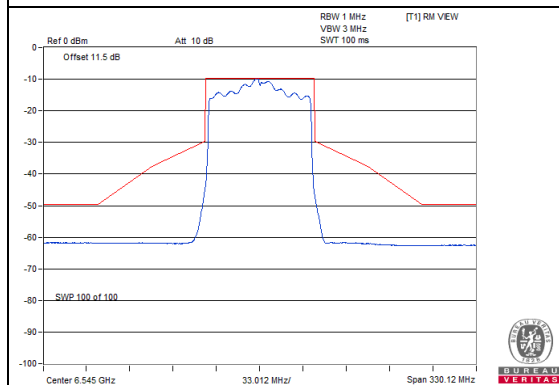
CH87



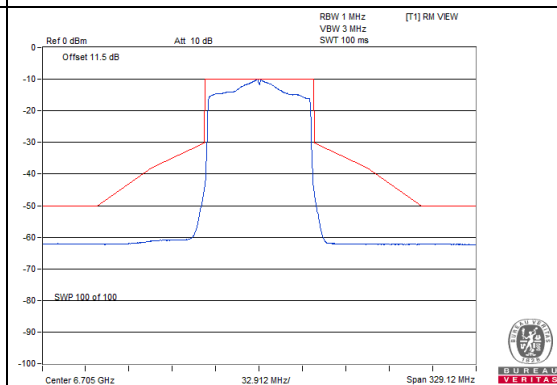
CH103



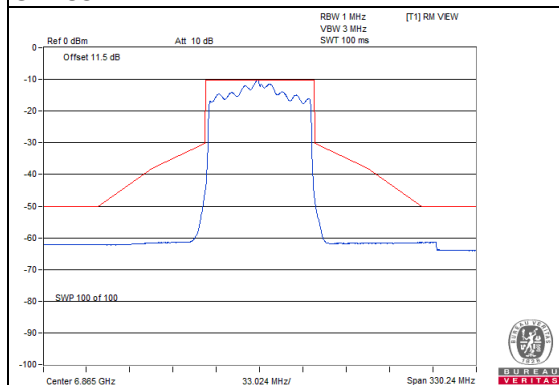
CH119



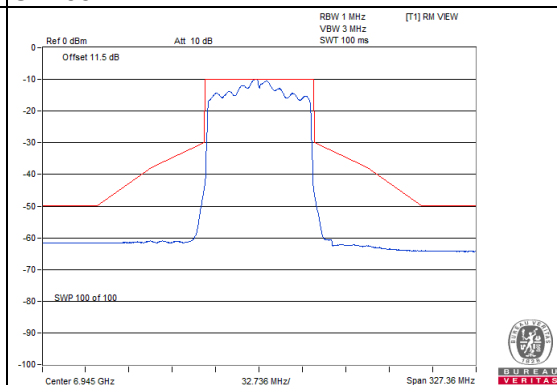
CH151



CH183



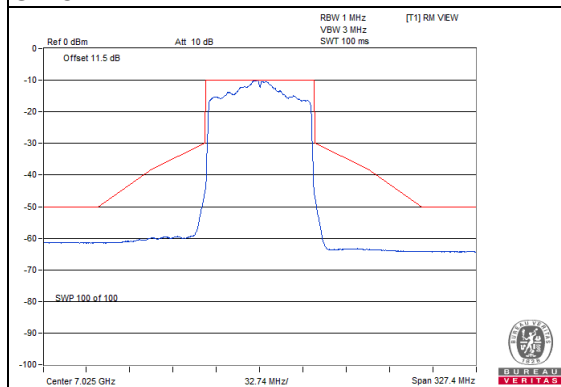
CH199



Spectrum Plot of Worst Value

Chain 1

C215

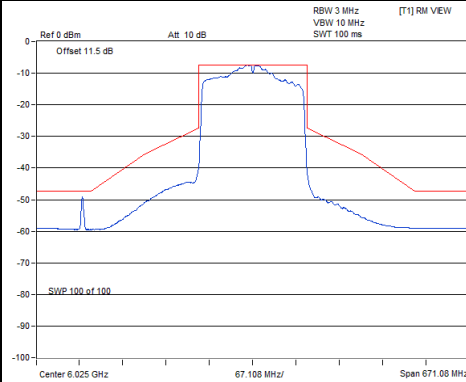


802.11ax (HE160)

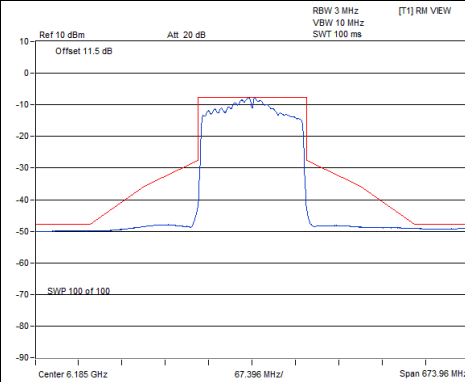
Spectrum Plot of Worst Value

Chain 0

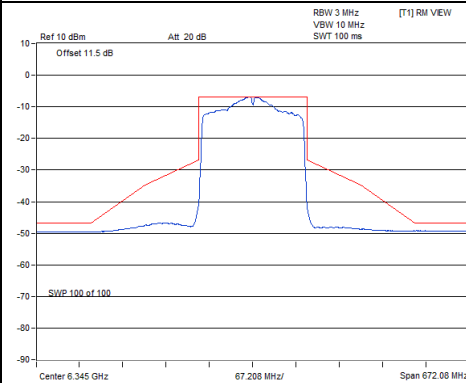
CH15



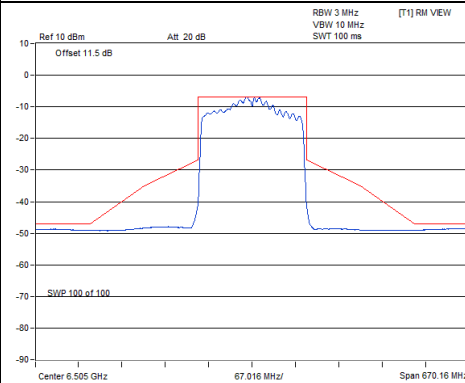
CH47



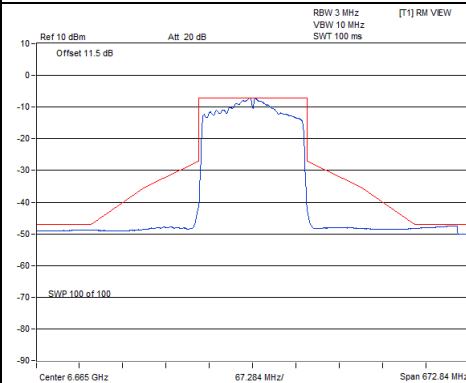
CH79



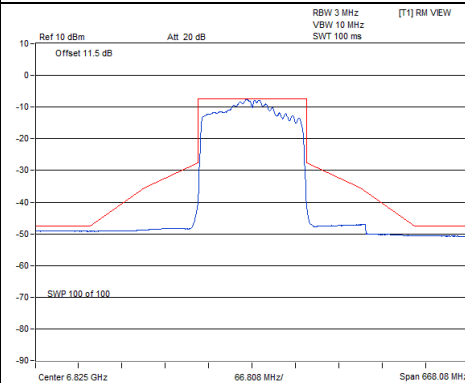
CH111



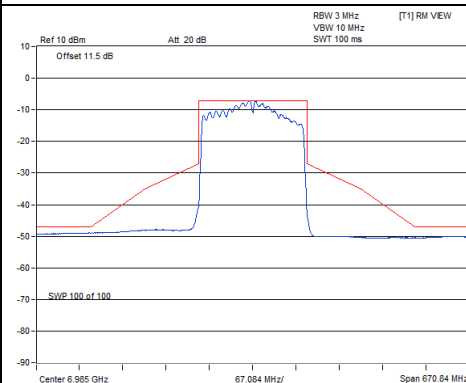
CH143



CH175



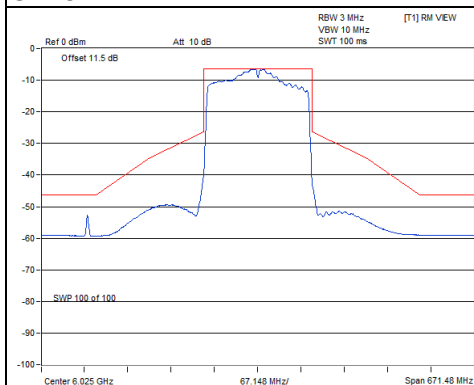
CH207



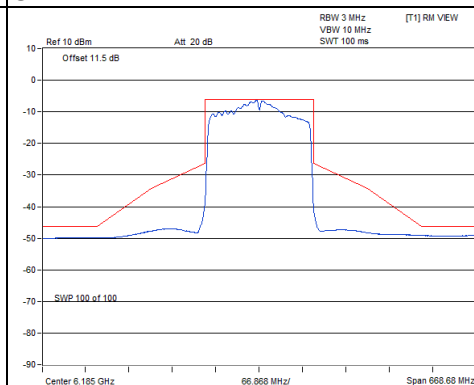
Spectrum Plot of Worst Value

Chain 1

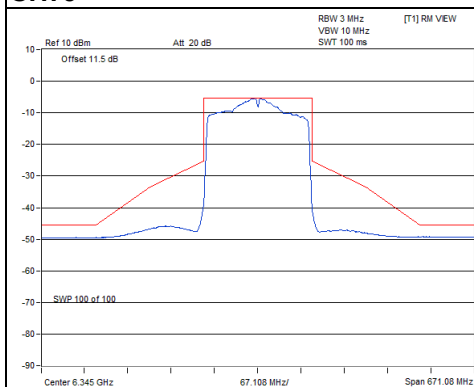
CH15



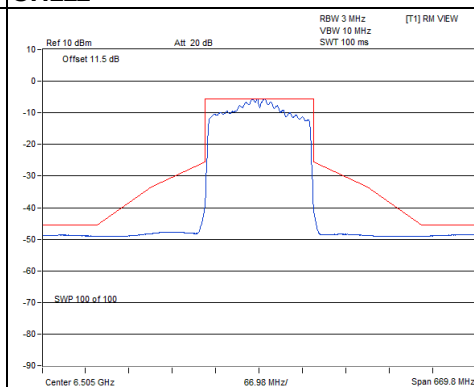
CH47



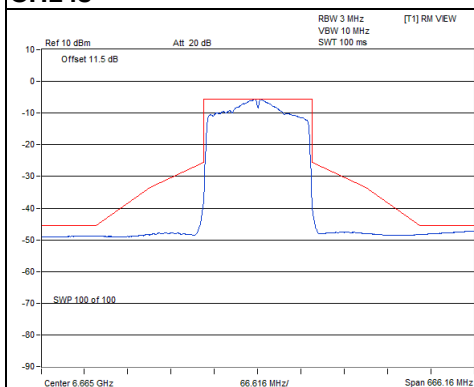
CH79



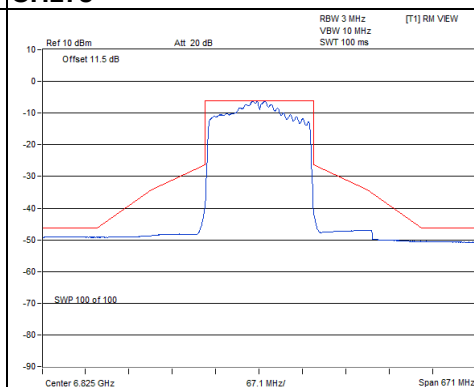
CH111



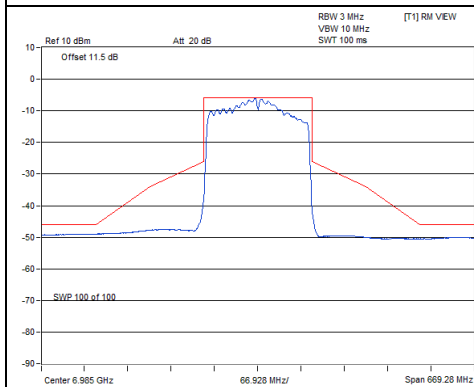
CH143



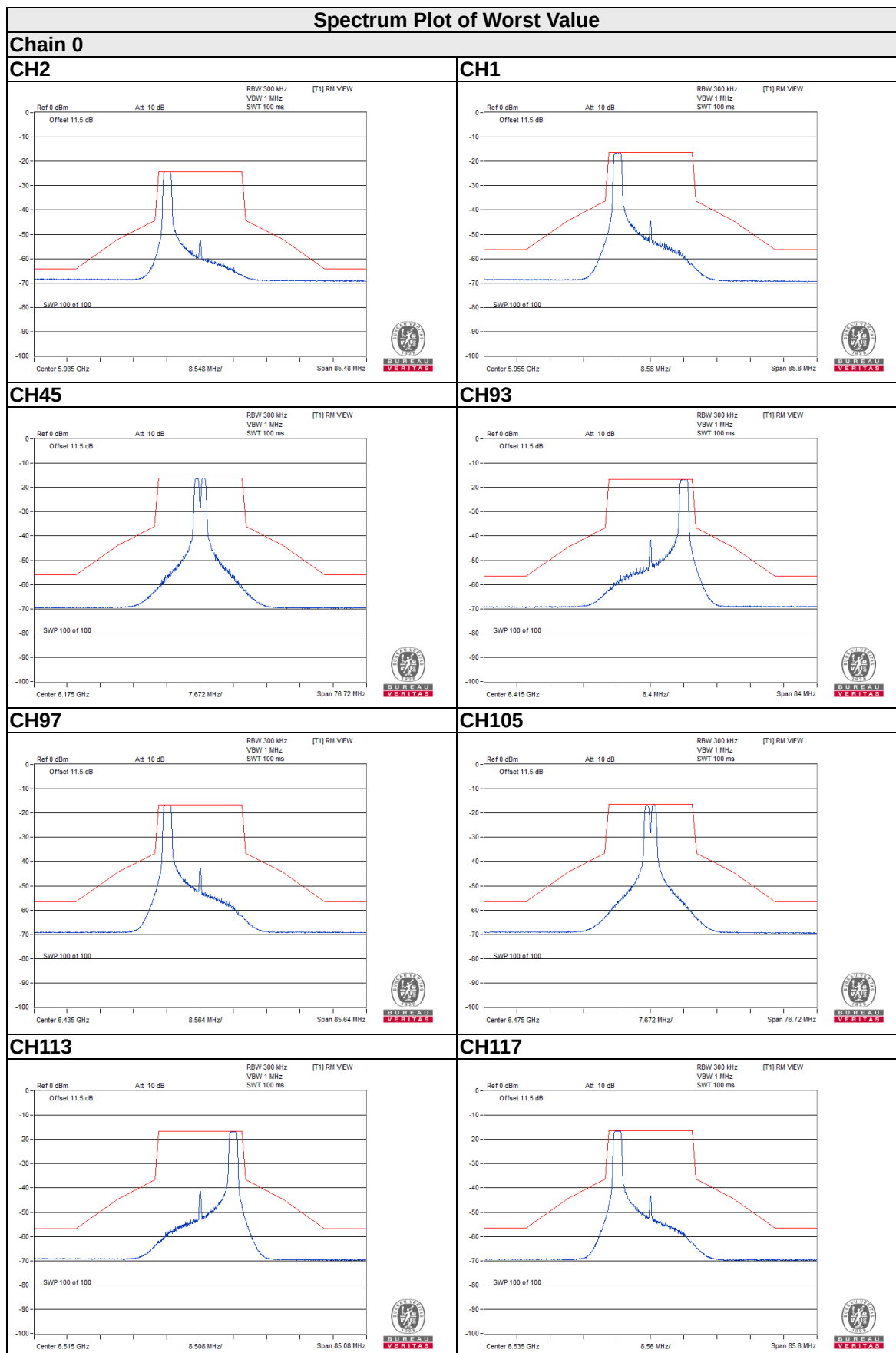
CH175



CH207



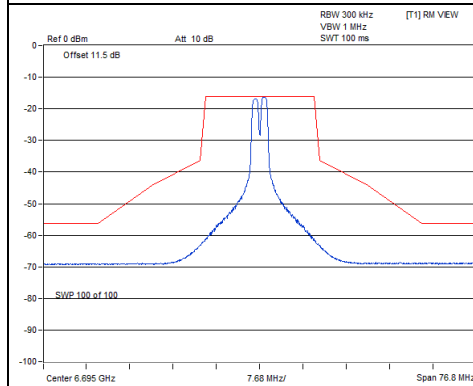
20MHz Preamble RU26



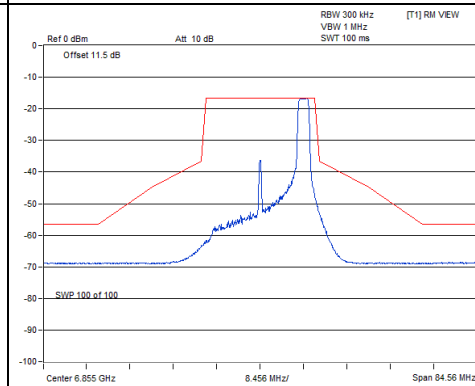
Spectrum Plot of Worst Value

Chain 0

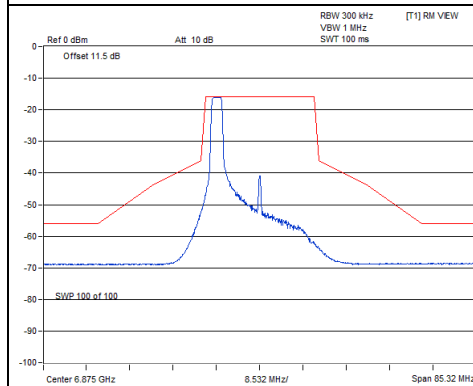
C149



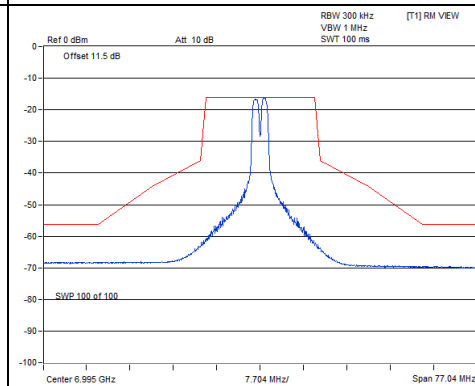
CH181



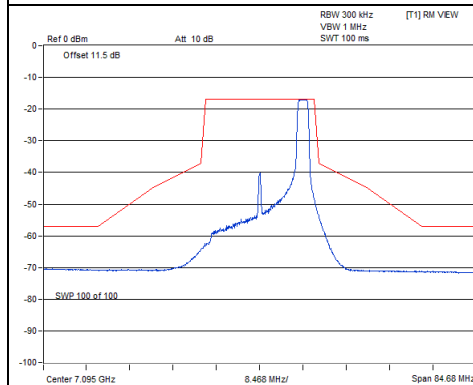
CH185



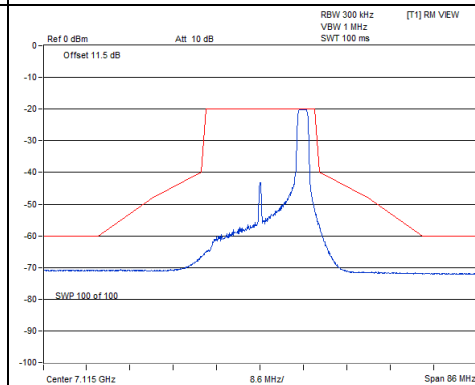
CH209



CH229



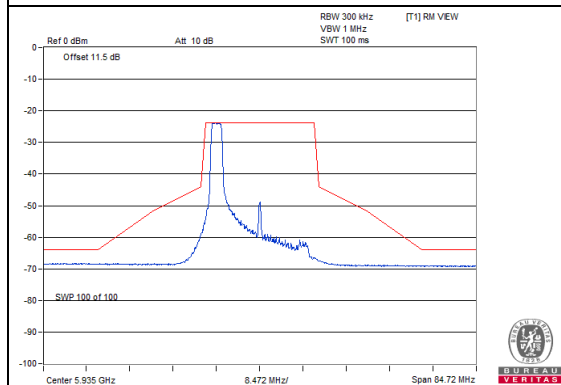
CH233



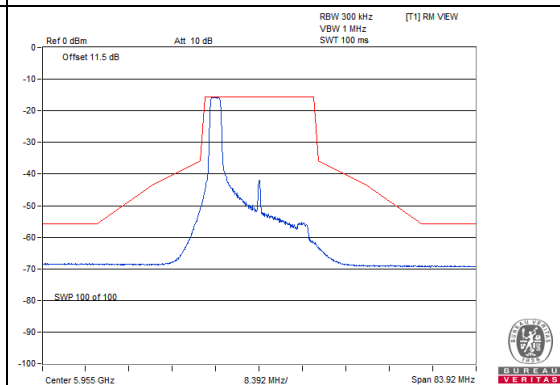
Spectrum Plot of Worst Value

Chain 1

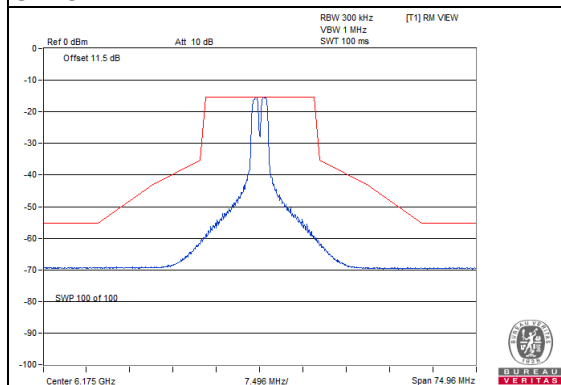
CH2



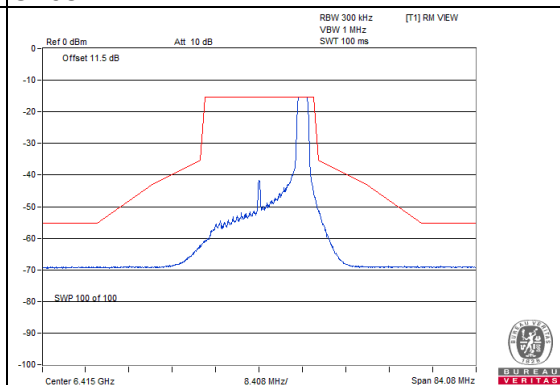
CH1



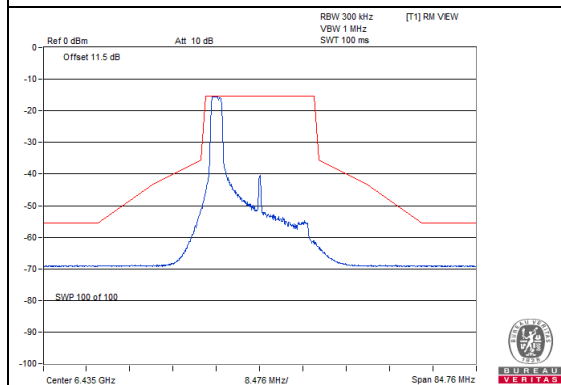
CH45



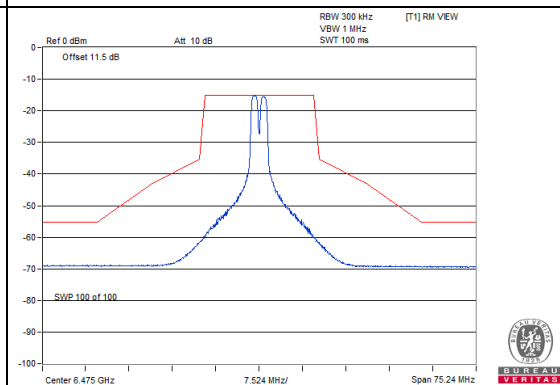
CH93



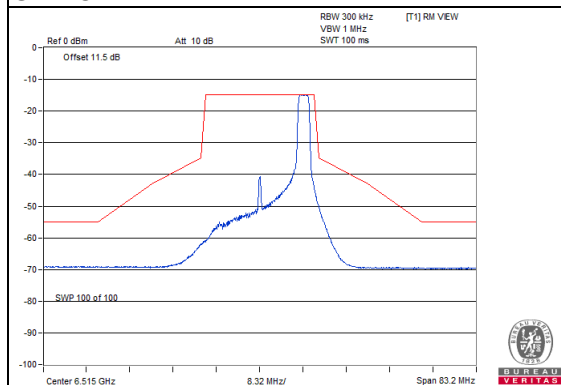
CH97



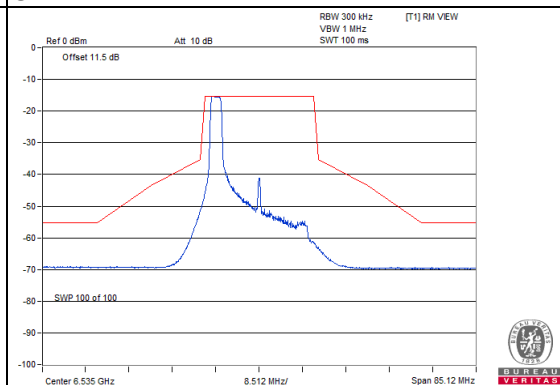
CH105



CH113



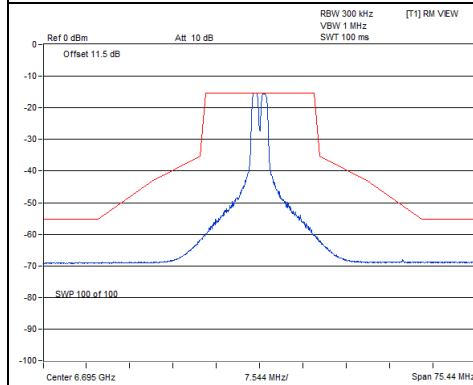
CH117



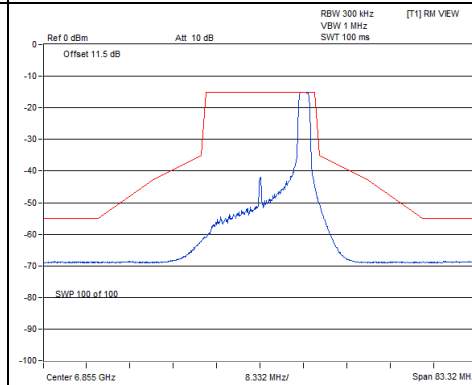
Spectrum Plot of Worst Value

Chain 1

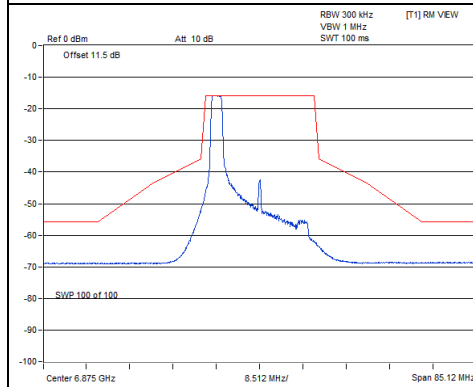
C149



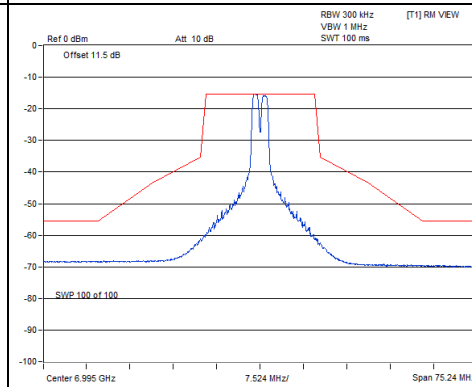
CH181



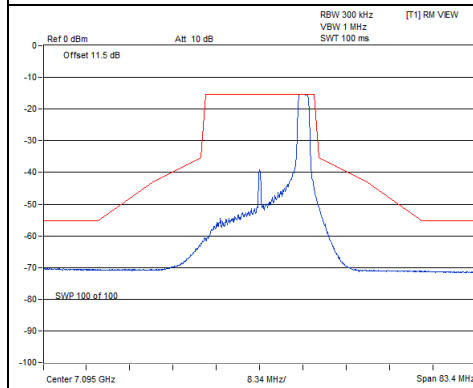
CH185



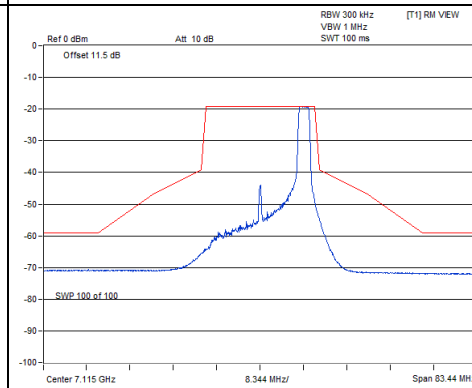
CH209



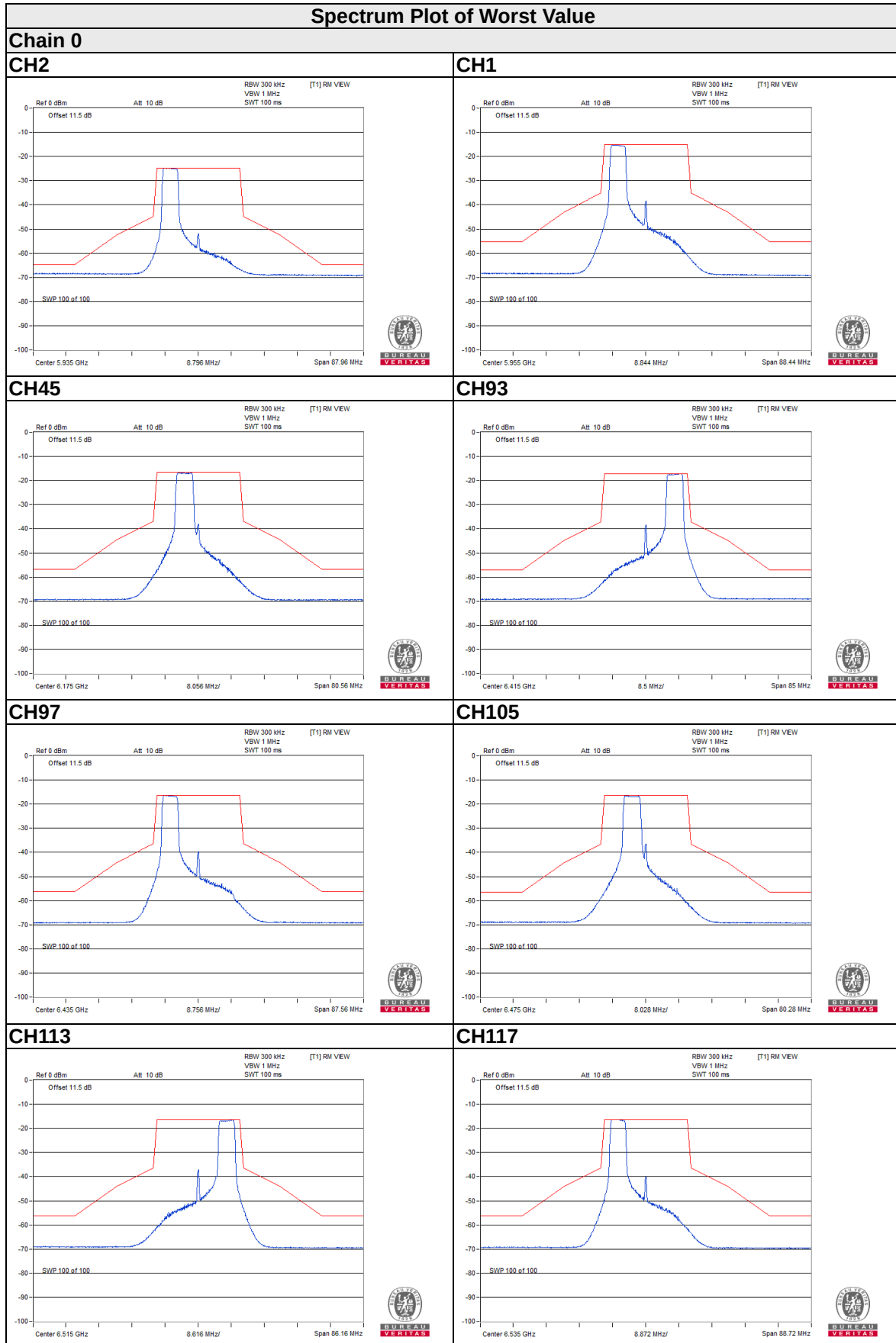
CH229



CH233



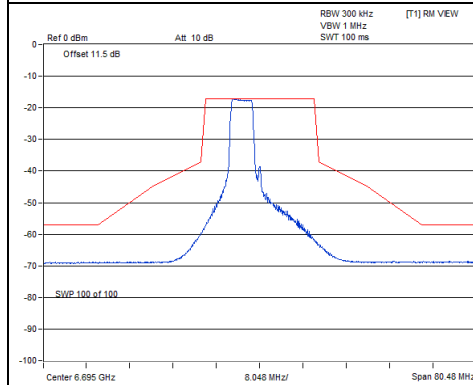
RU52



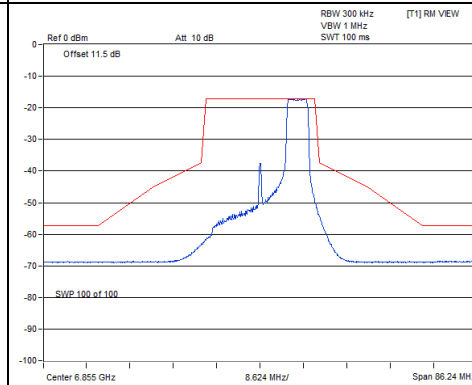
Spectrum Plot of Worst Value

Chain 0

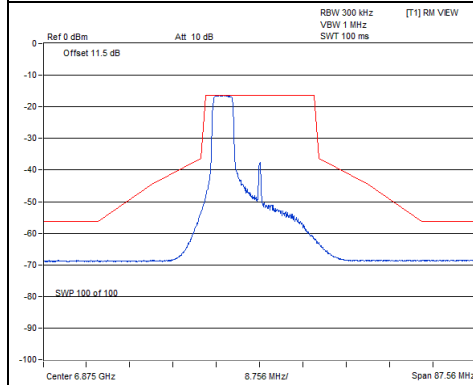
C149



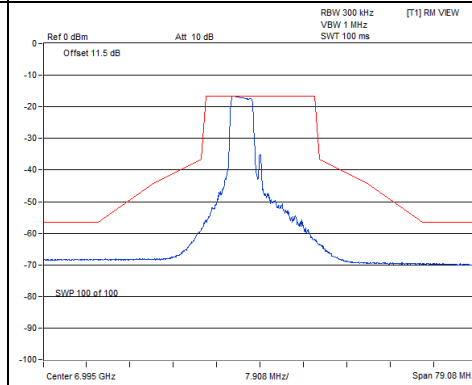
CH181



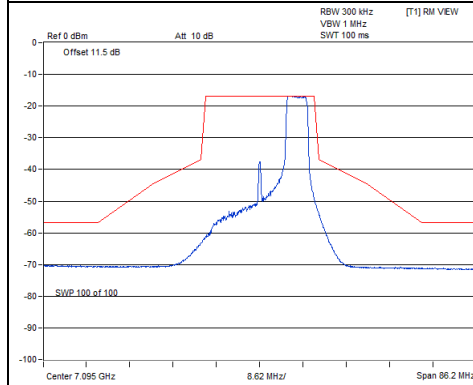
CH185



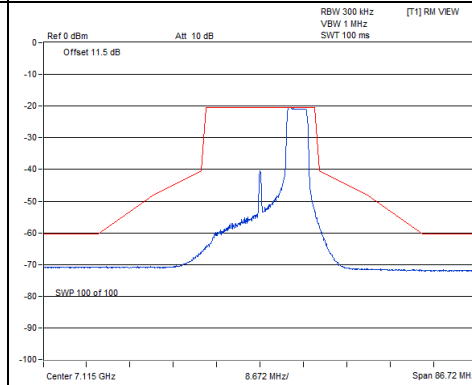
CH209



CH229



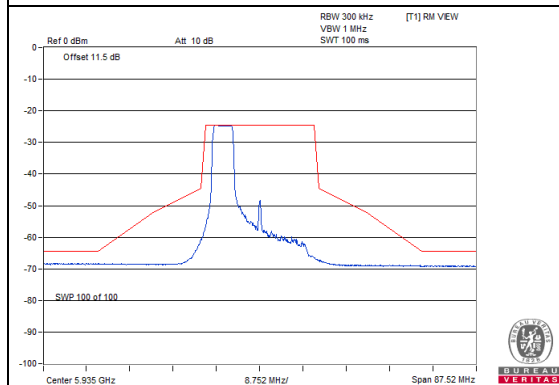
CH233



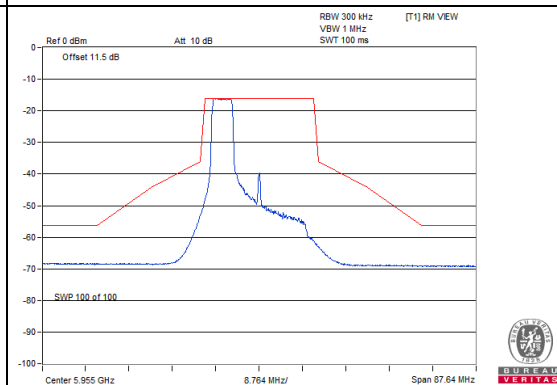
Spectrum Plot of Worst Value

Chain 1

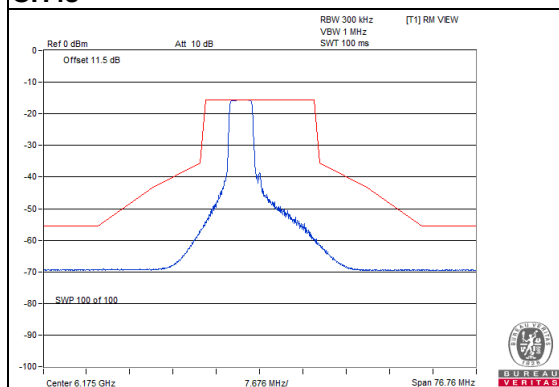
CH2



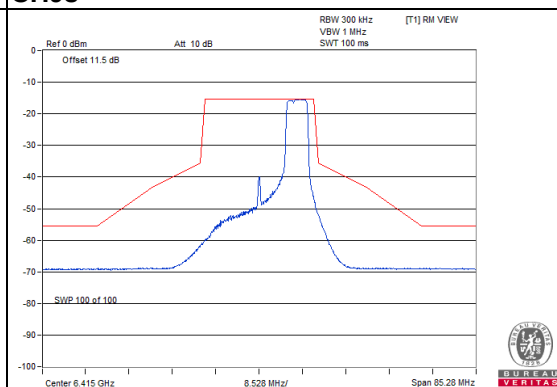
CH1



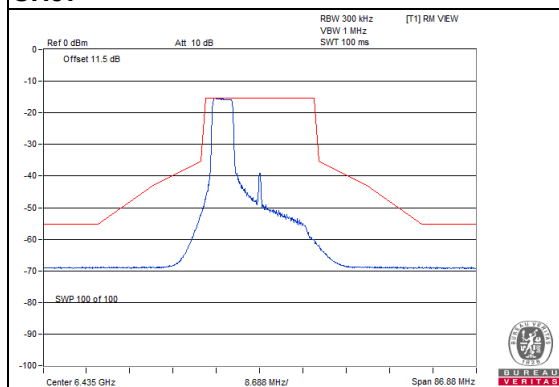
CH45



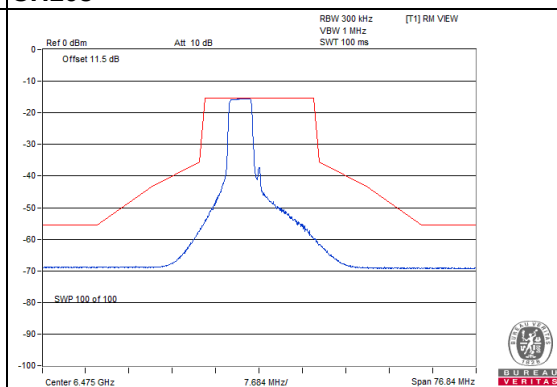
CH93



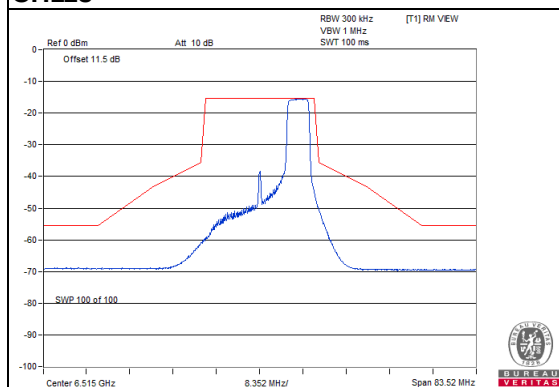
CH97



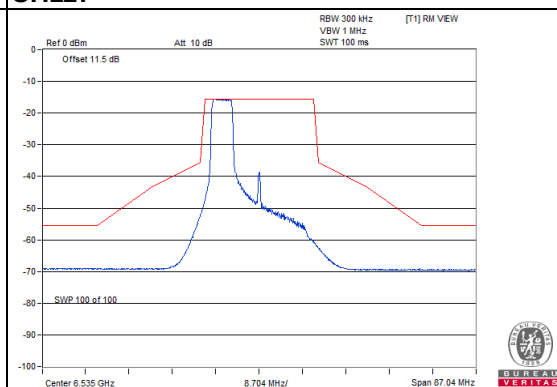
CH105



CH113



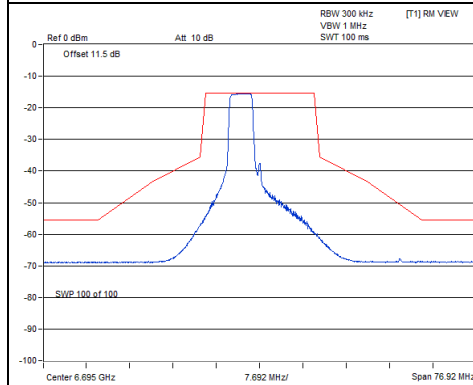
CH117



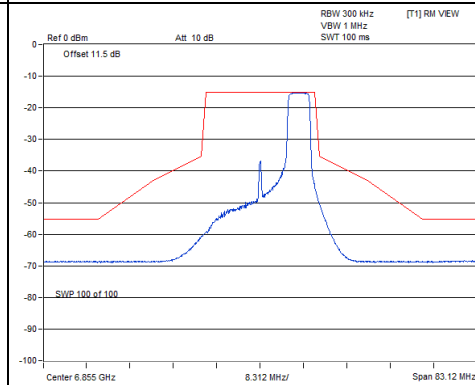
Spectrum Plot of Worst Value

Chain 1

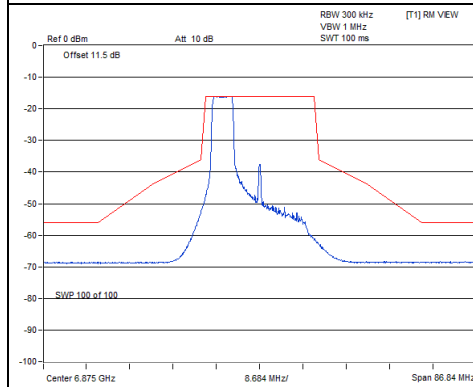
C149



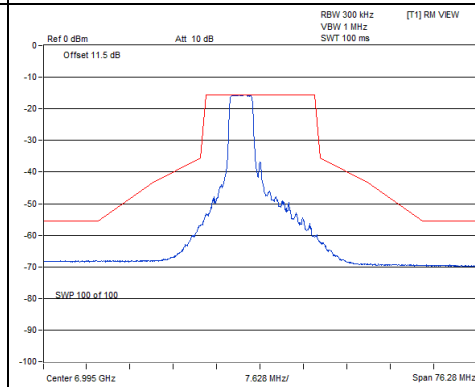
CH181



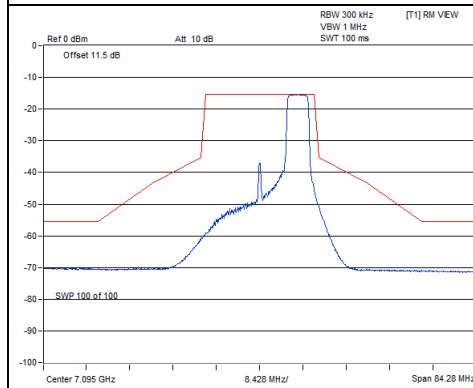
CH185



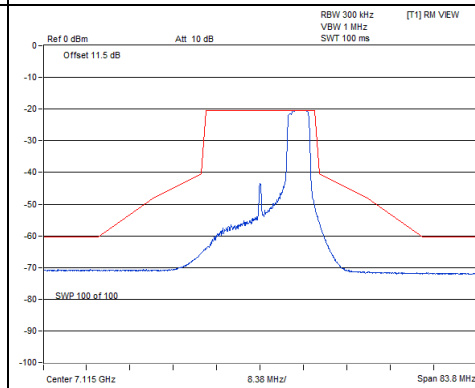
CH209



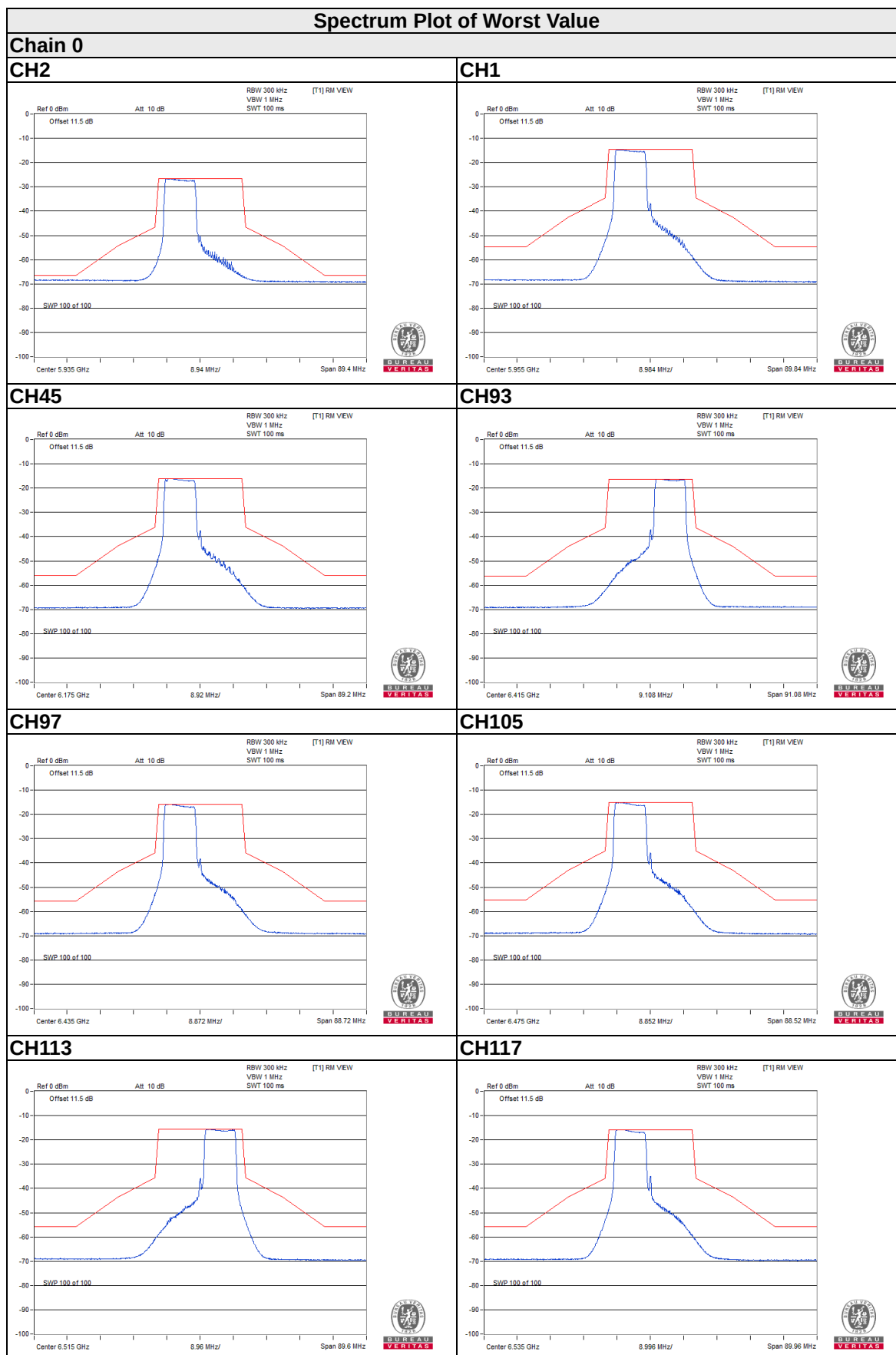
CH229



CH233



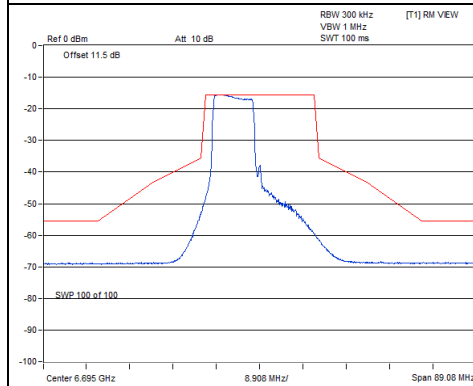
RU106



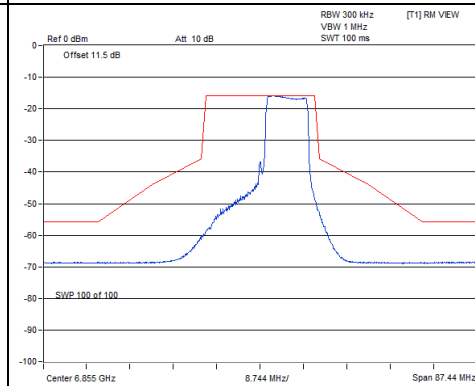
Spectrum Plot of Worst Value

Chain 0

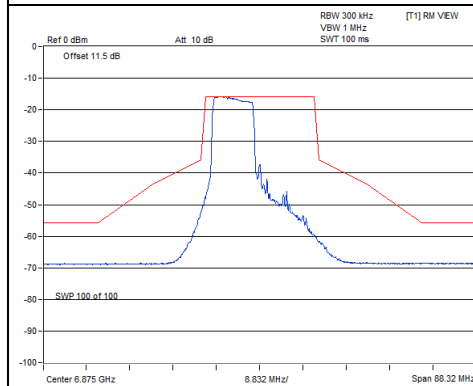
C149



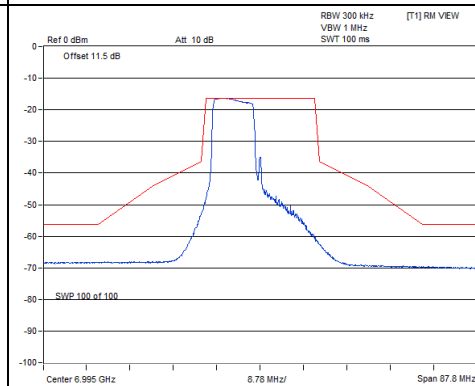
CH181



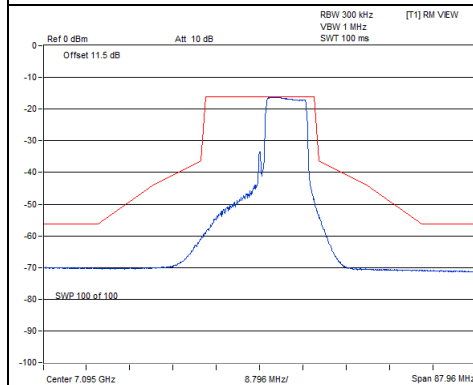
CH185



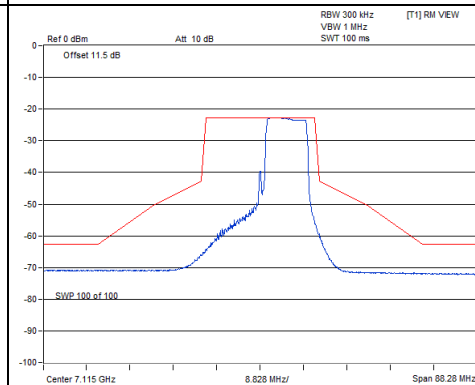
CH209



CH229



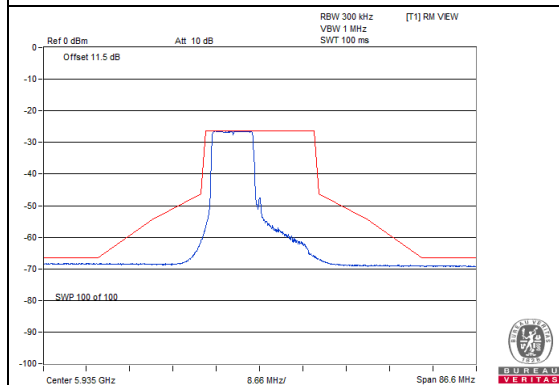
CH233



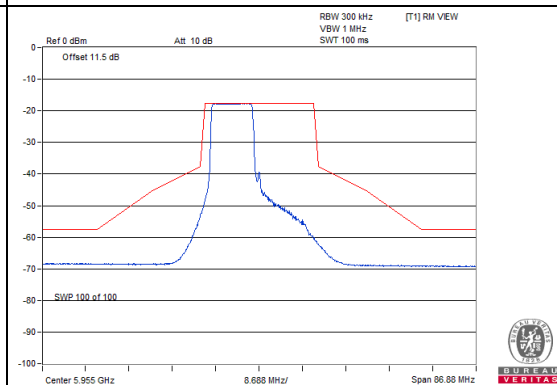
Spectrum Plot of Worst Value

Chain 1

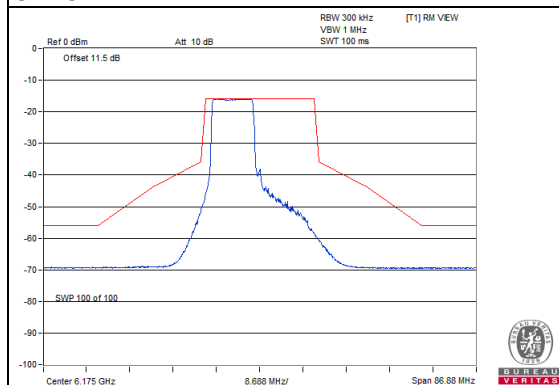
CH2



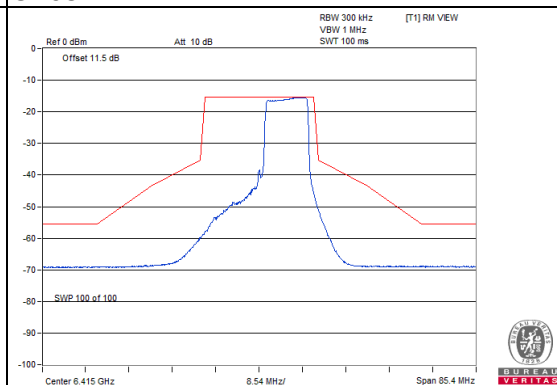
CH1



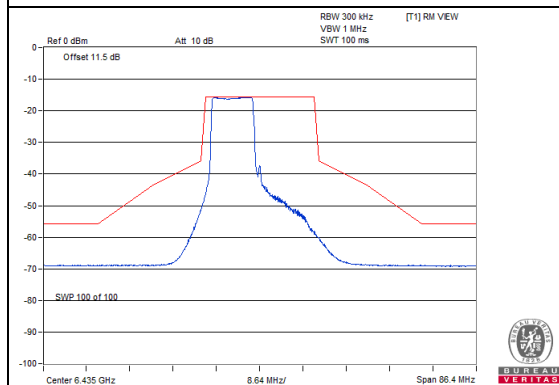
CH45



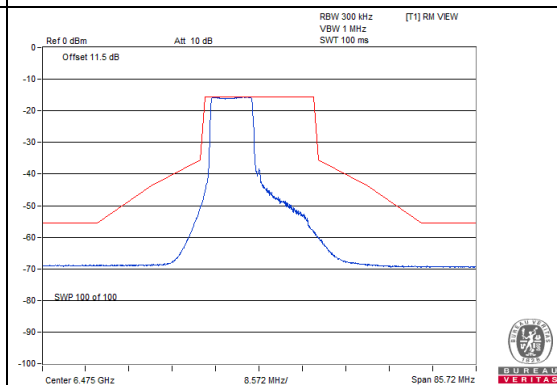
CH93



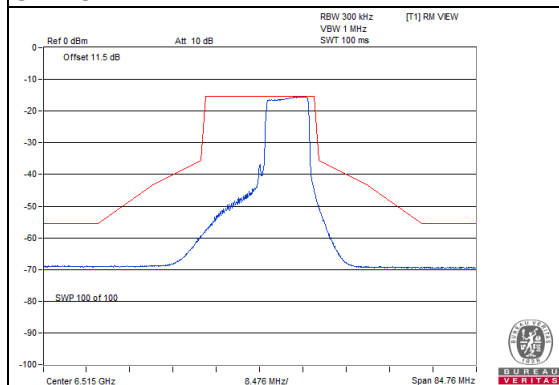
CH97



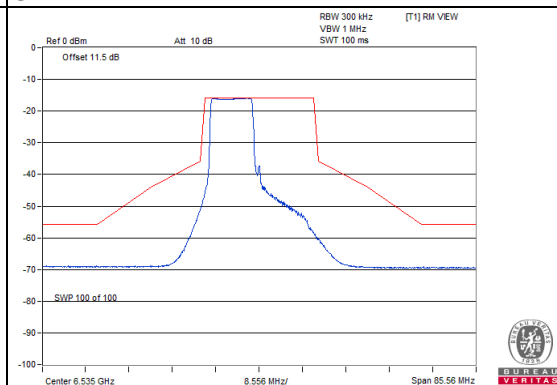
CH105



CH113



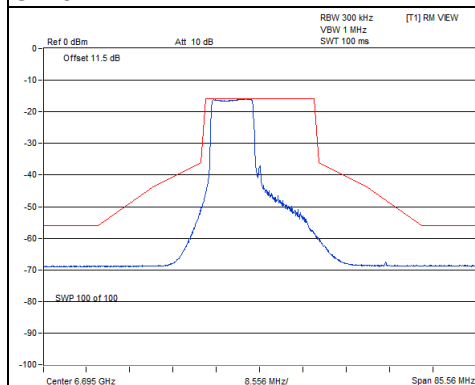
CH117



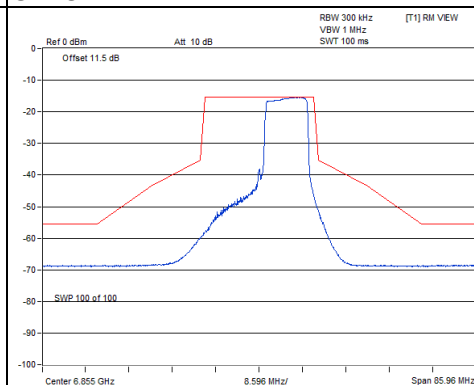
Spectrum Plot of Worst Value

Chain 1

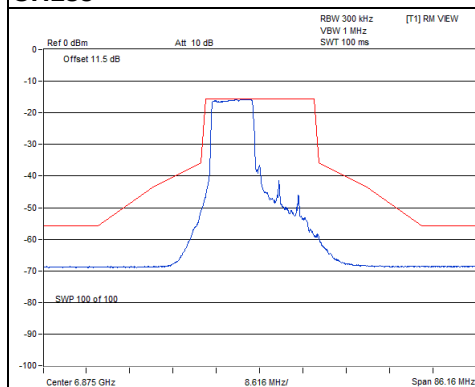
C149



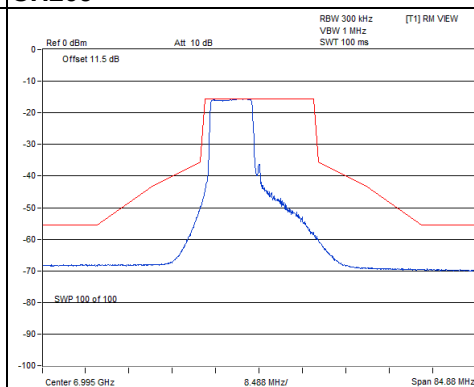
CH181



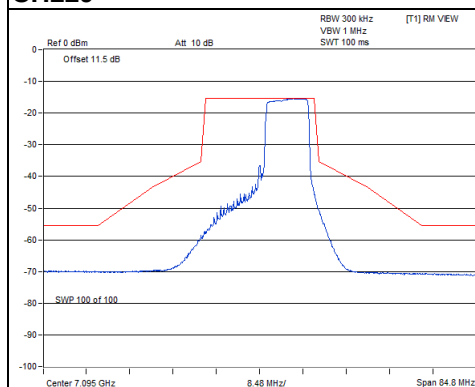
CH185



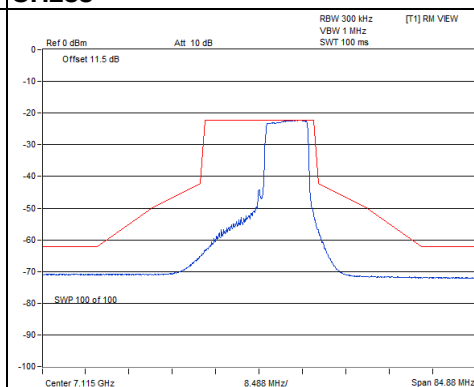
CH209



CH229



CH233

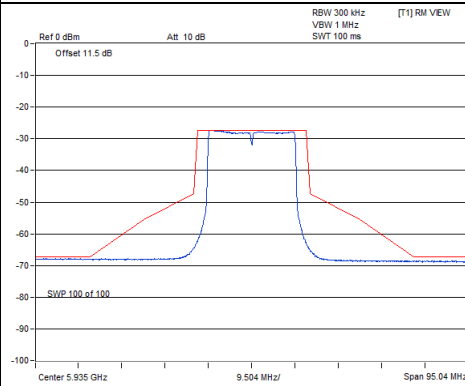


RU242

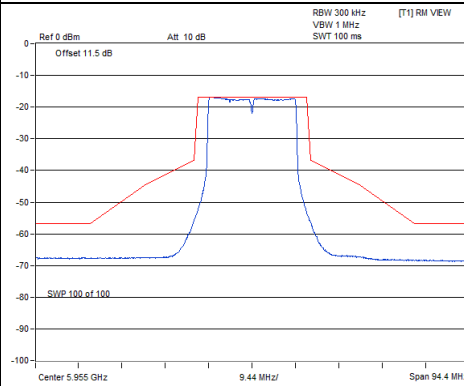
Spectrum Plot of Worst Value

Chain 0

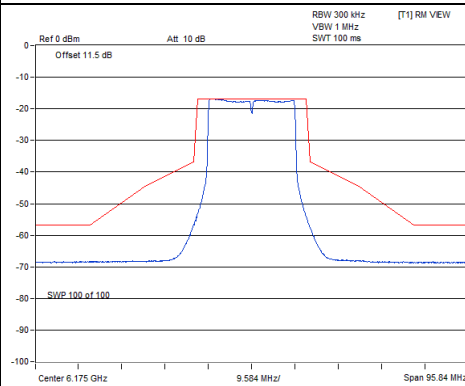
CH2



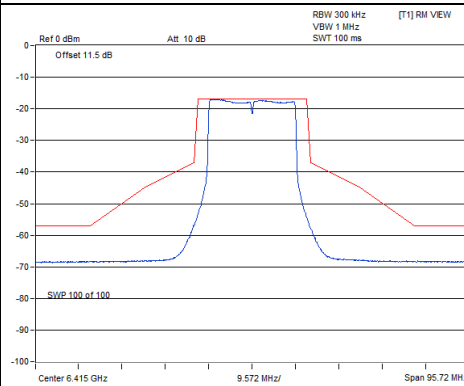
CH1



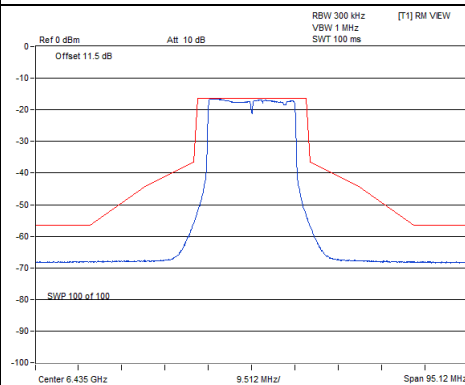
CH45



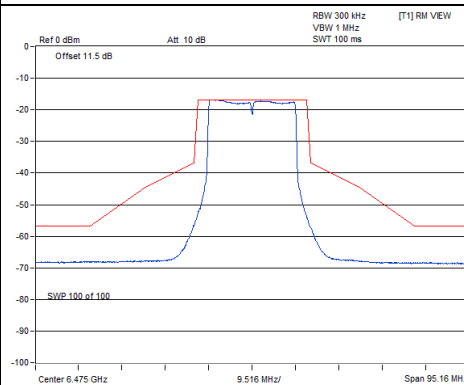
CH93



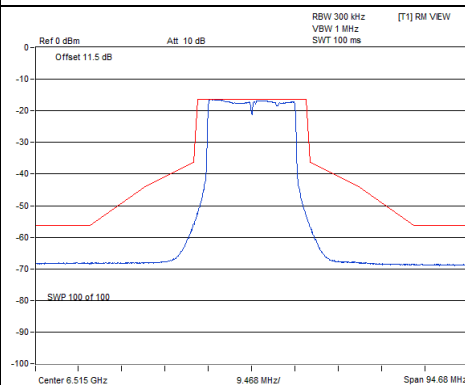
CH97



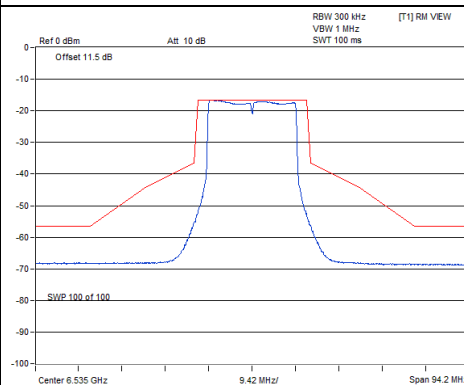
CH105



CH113



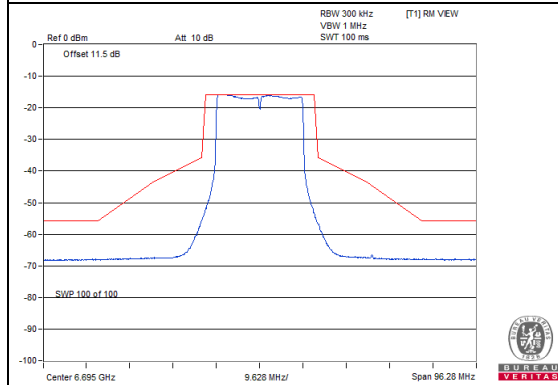
CH117



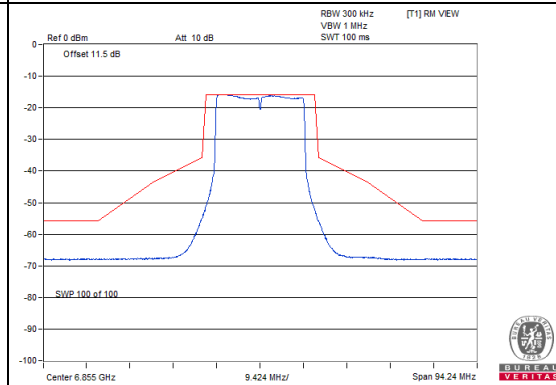
Spectrum Plot of Worst Value

Chain 0

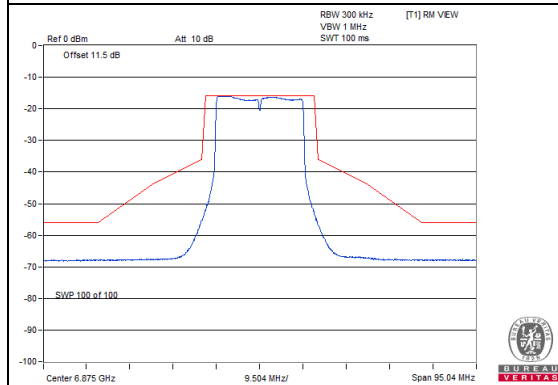
C149



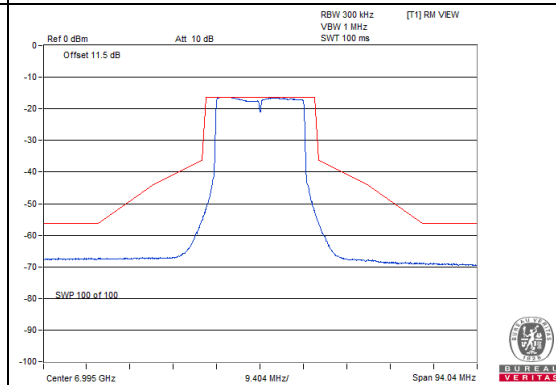
CH181



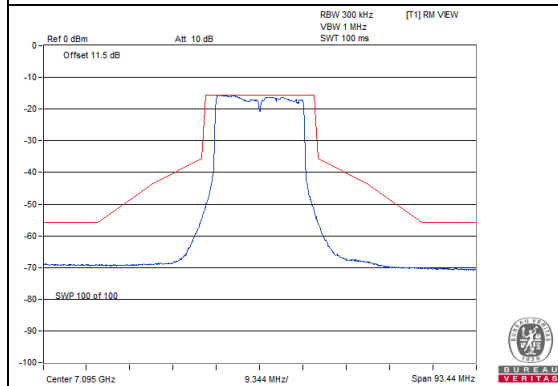
CH185



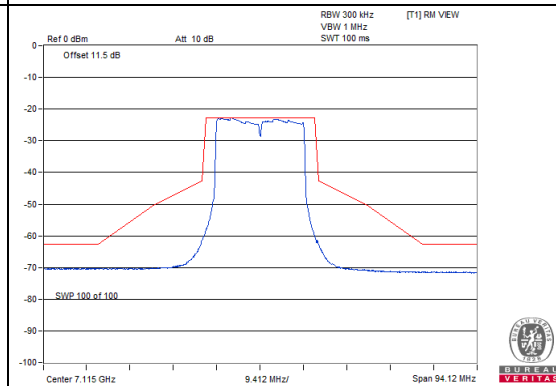
CH209



CH229



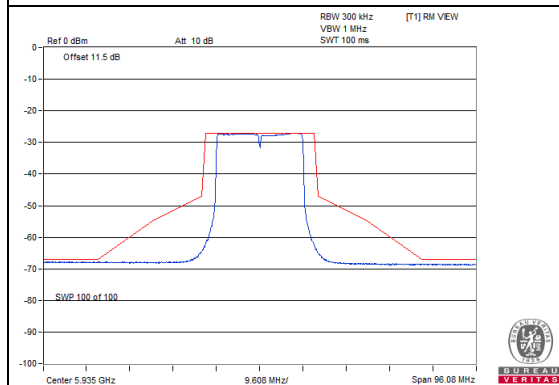
CH233



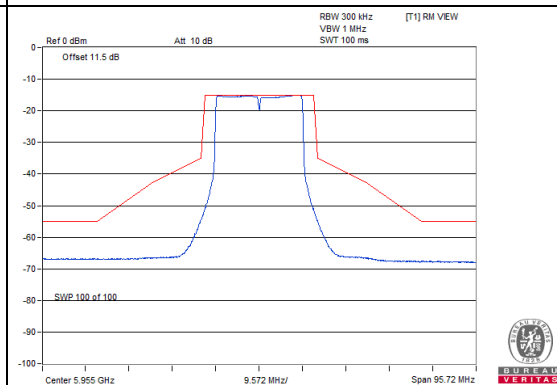
Spectrum Plot of Worst Value

Chain 1

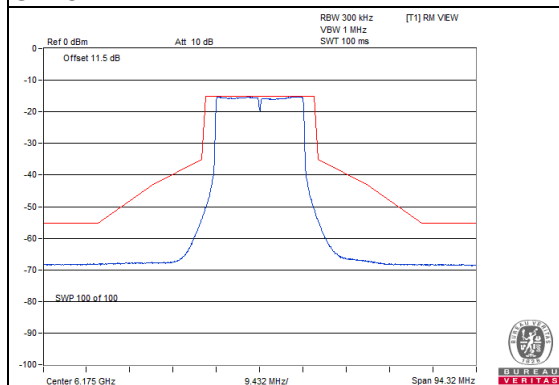
CH2



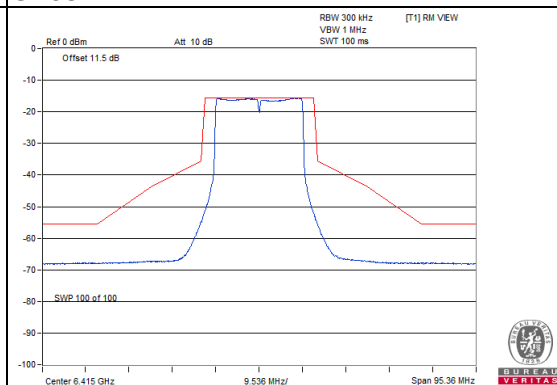
CH1



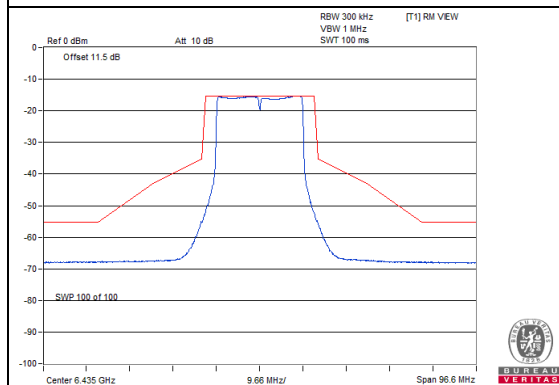
CH45



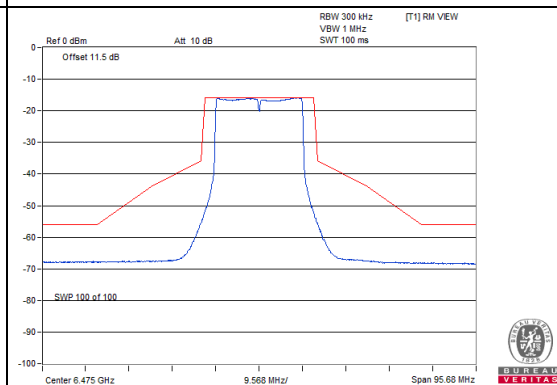
CH93



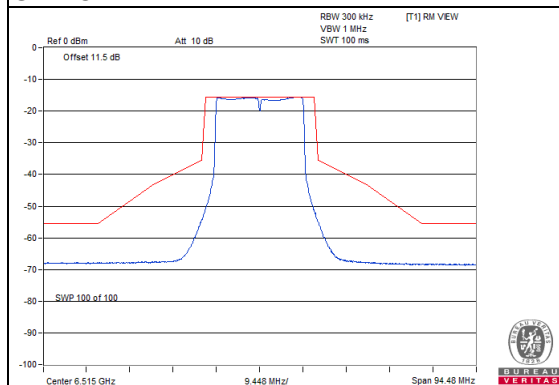
CH97



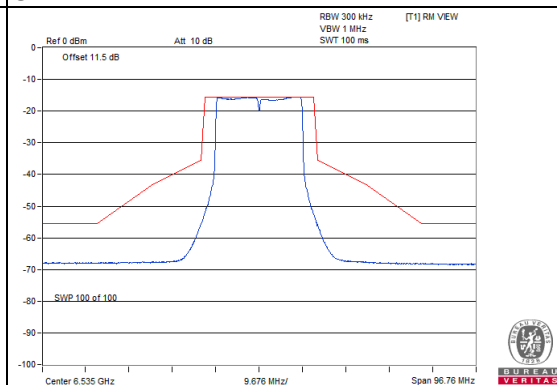
CH105



CH113



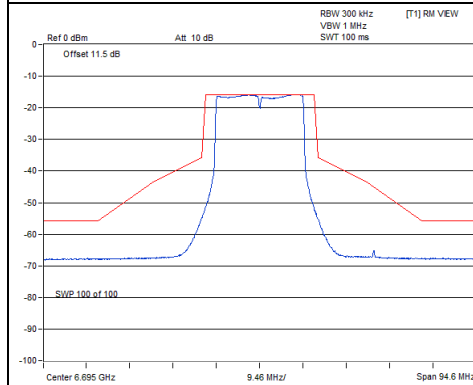
CH117



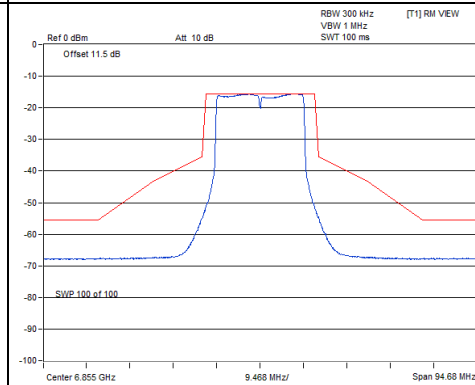
Spectrum Plot of Worst Value

Chain 1

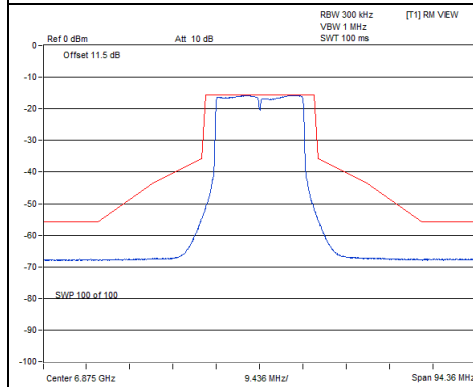
C149



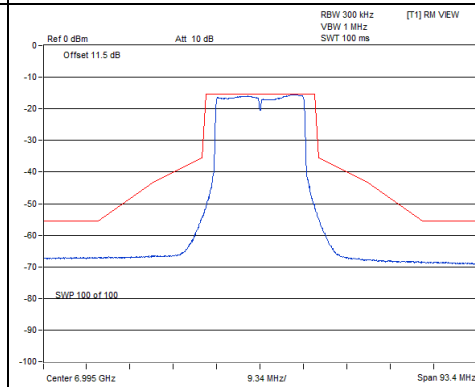
CH181



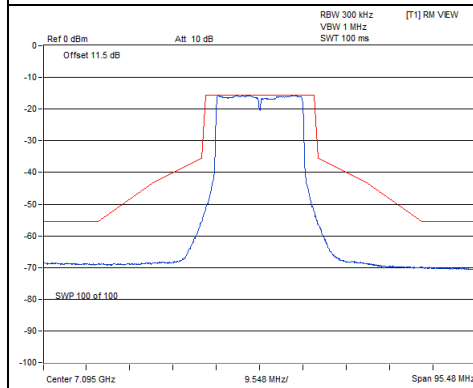
CH185



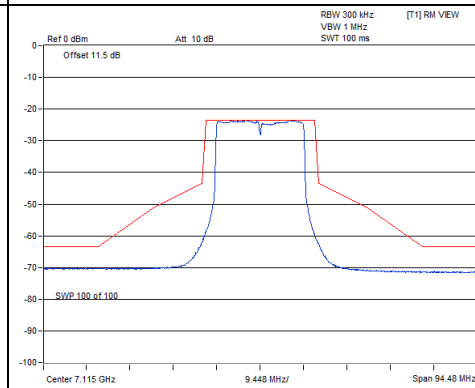
CH209



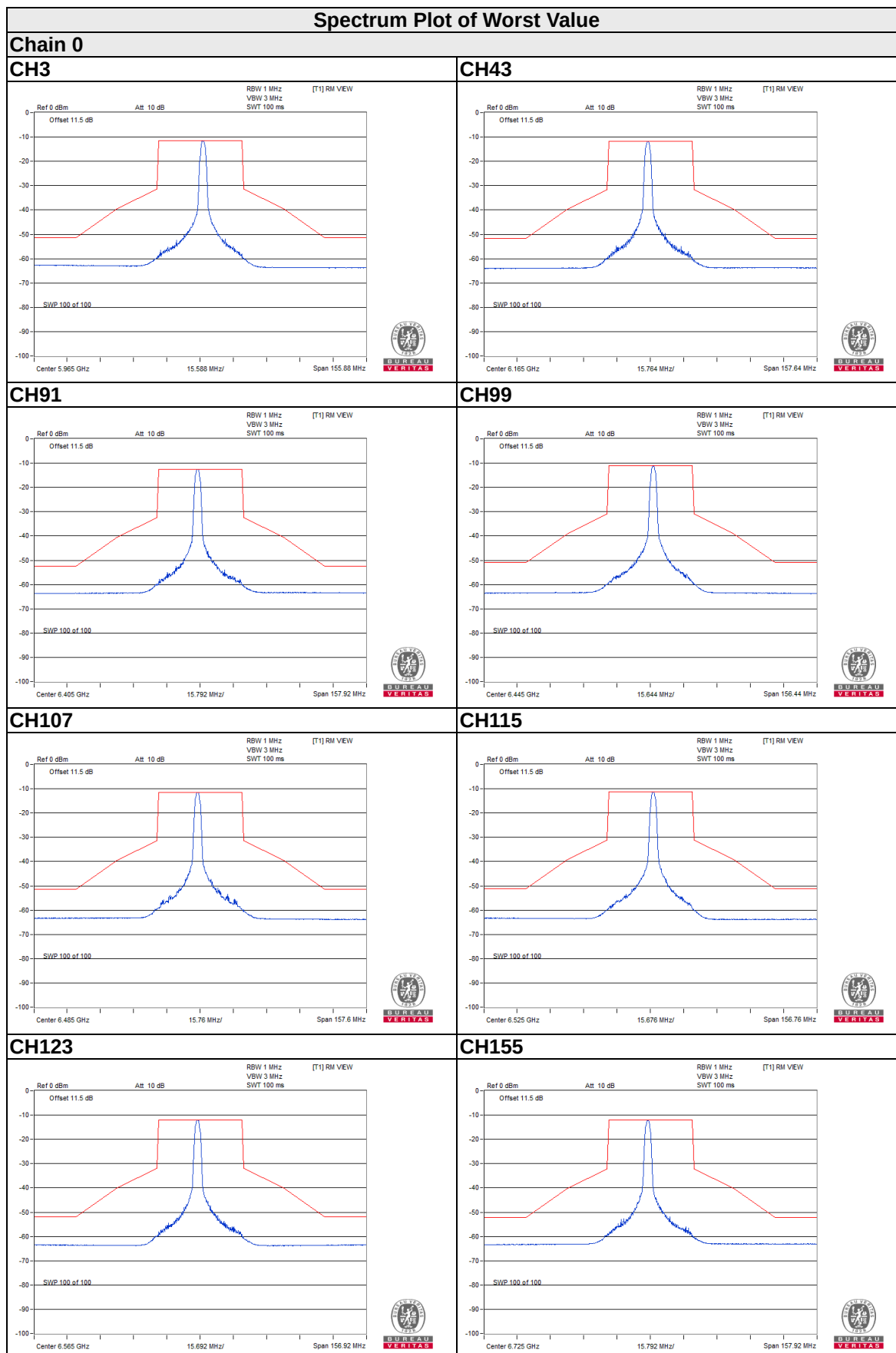
CH229



CH233



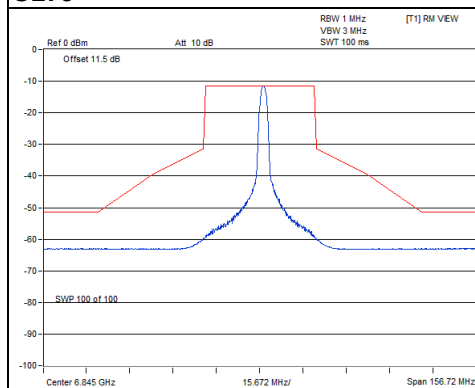
40MHz Preamble RU26



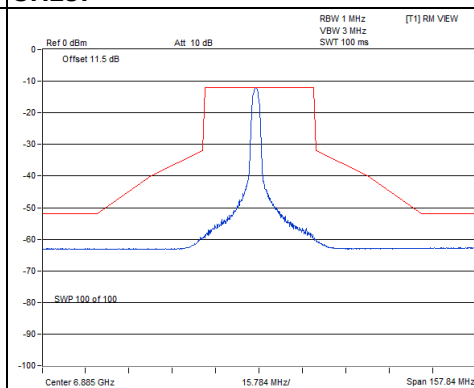
Spectrum Plot of Worst Value

Chain 0

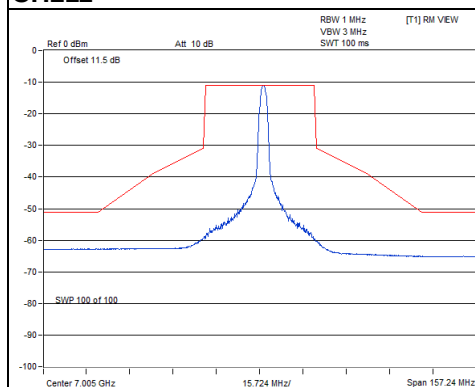
C179



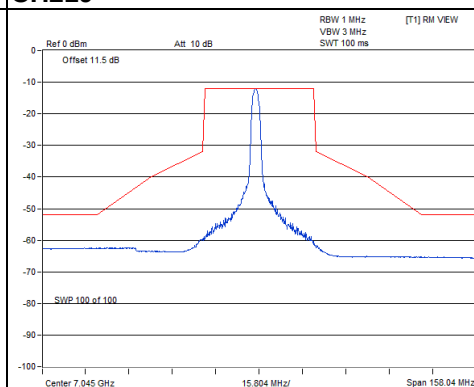
CH187



CH211



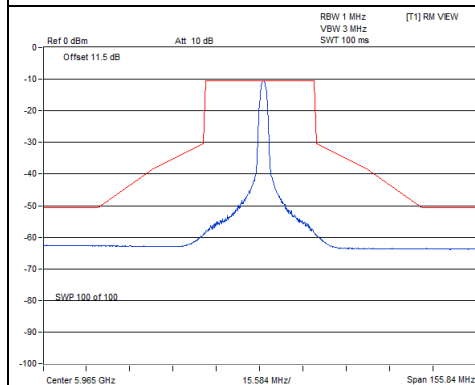
CH219



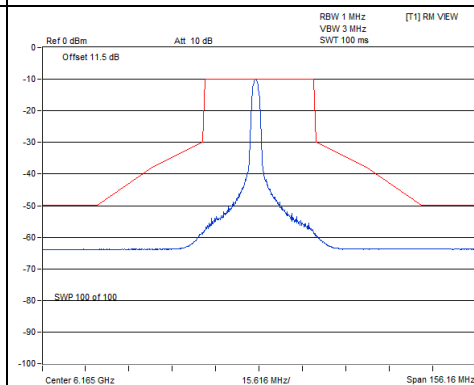
Spectrum Plot of Worst Value

Chain 1

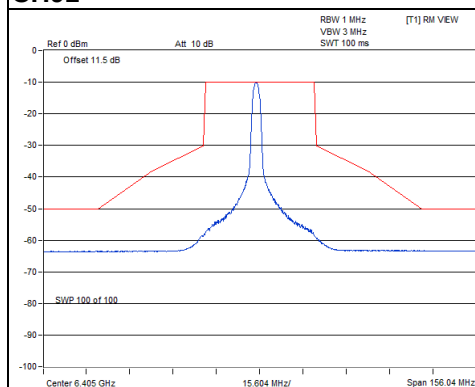
CH3



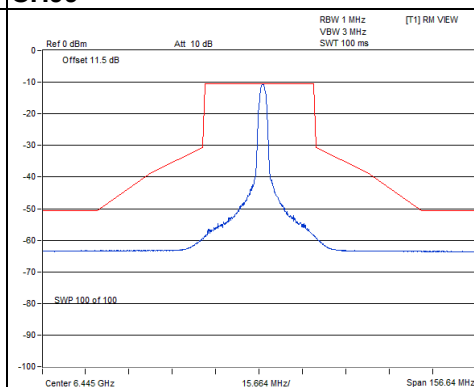
CH43



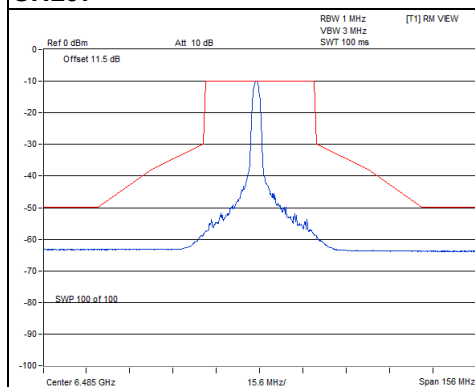
CH91



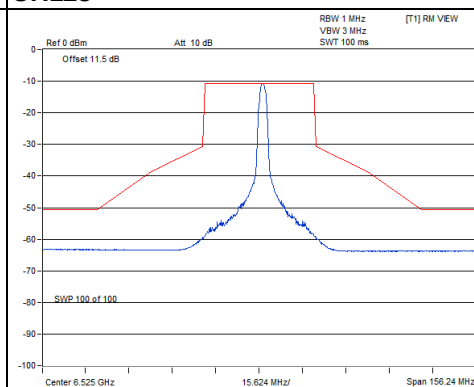
CH99



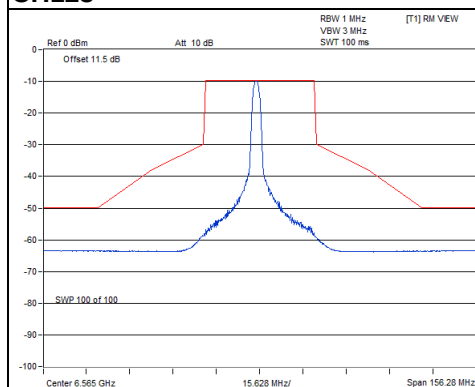
CH107



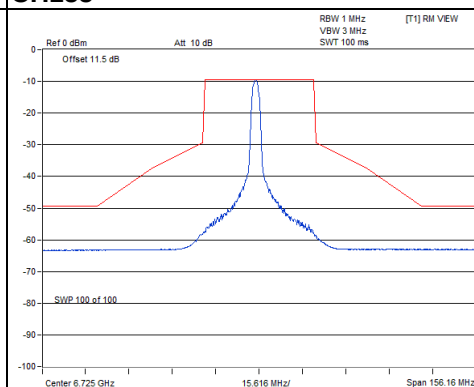
CH115



CH123



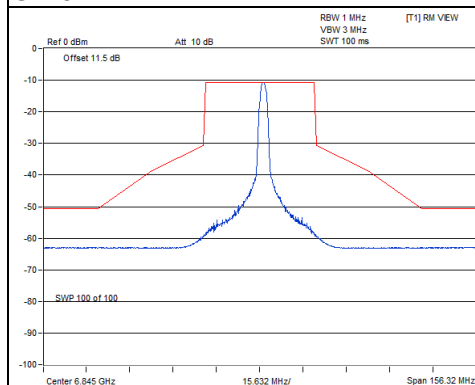
CH155



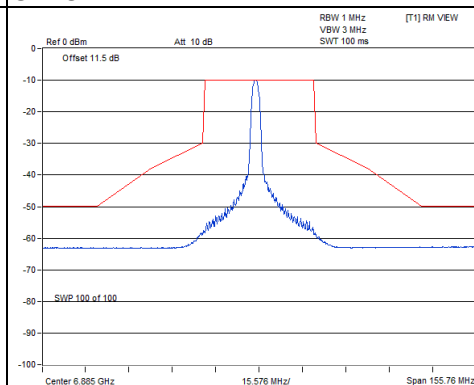
Spectrum Plot of Worst Value

Chain 1

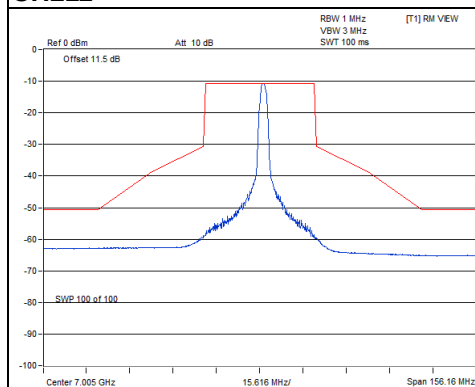
C179



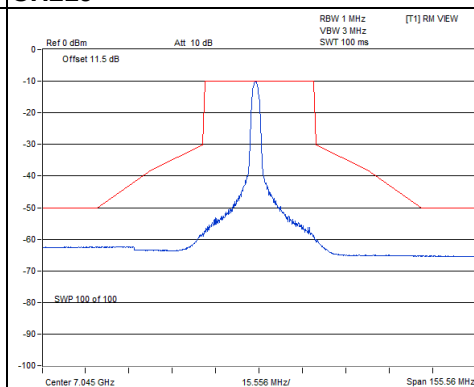
CH187



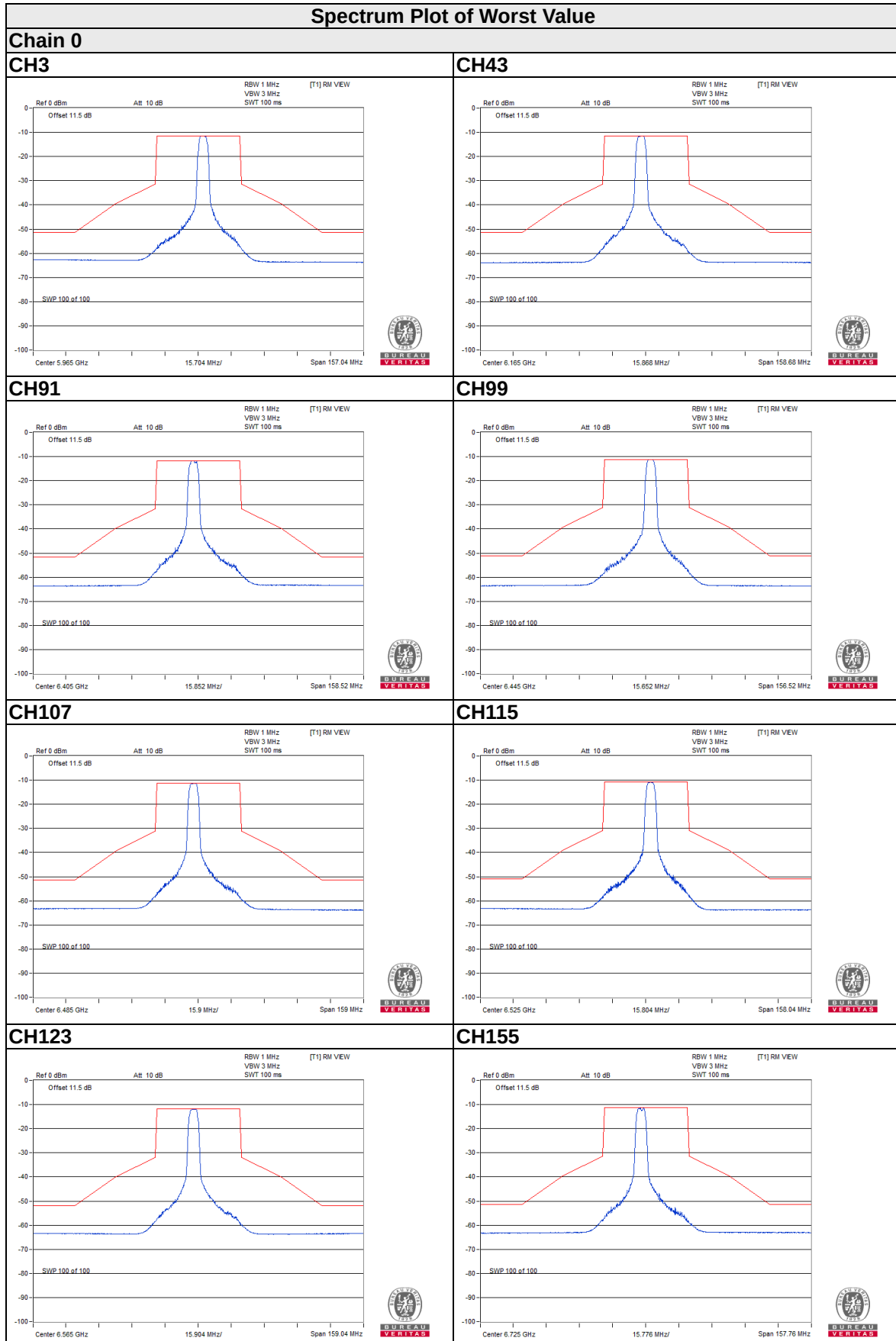
CH211



CH219



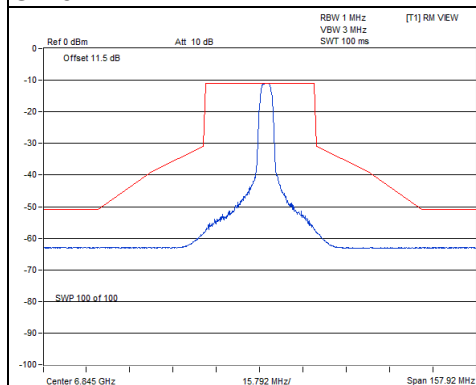
RU52



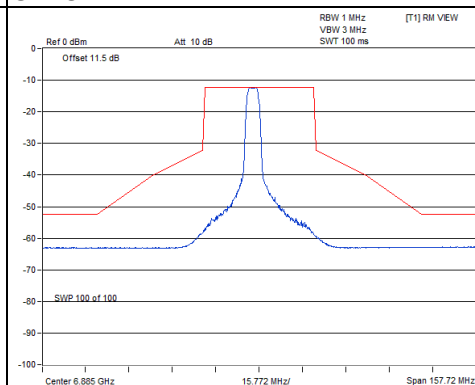
Spectrum Plot of Worst Value

Chain 0

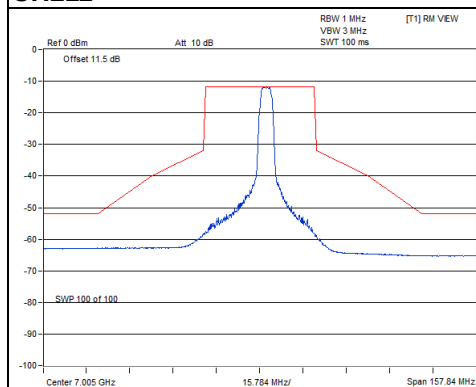
C179



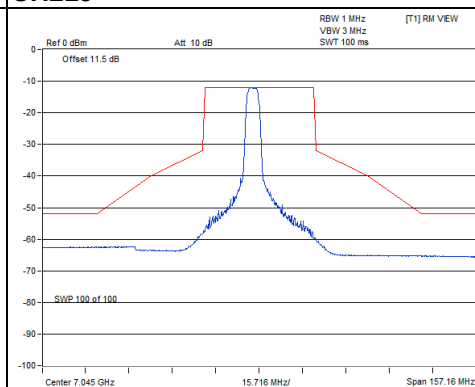
CH187



CH211



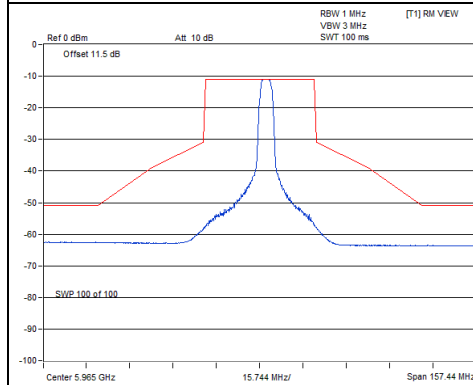
CH219



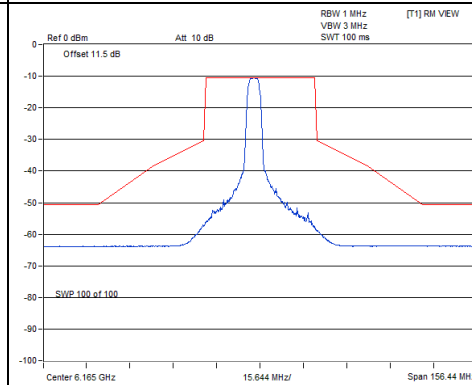
Spectrum Plot of Worst Value

Chain 1

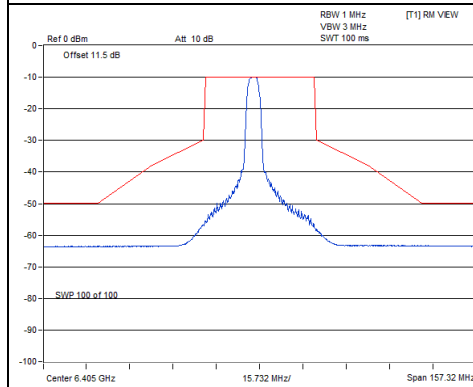
CH3



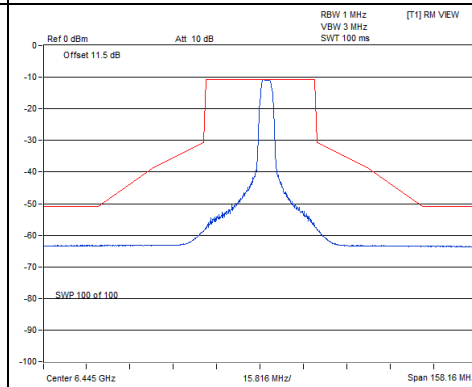
CH43



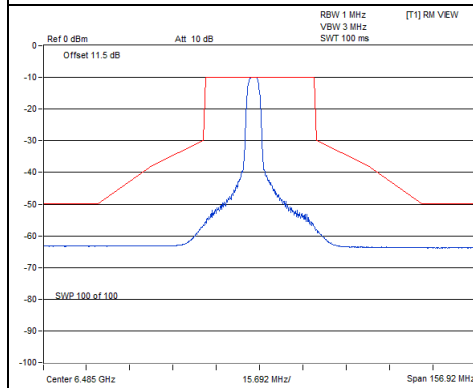
CH91



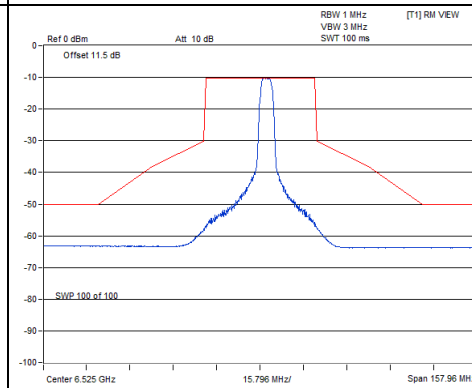
CH99



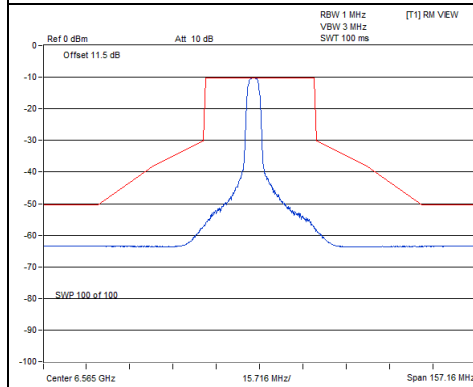
CH107



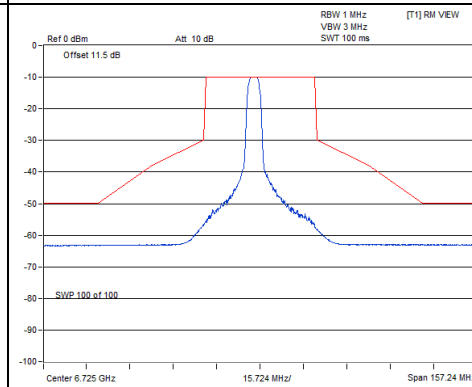
CH115



CH123



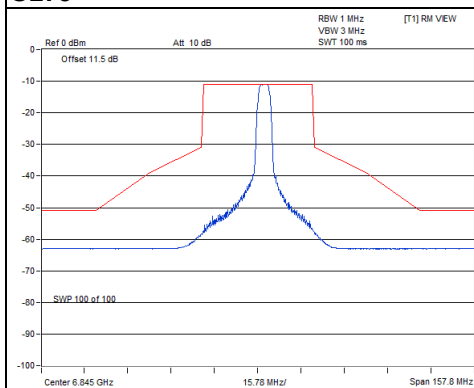
CH155



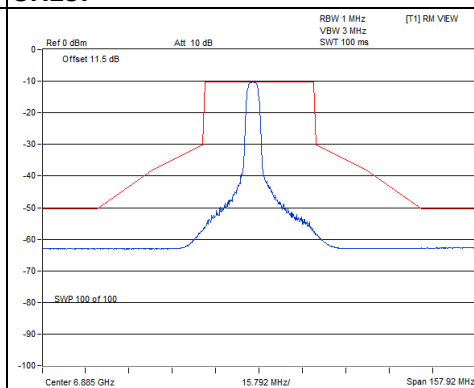
Spectrum Plot of Worst Value

Chain 1

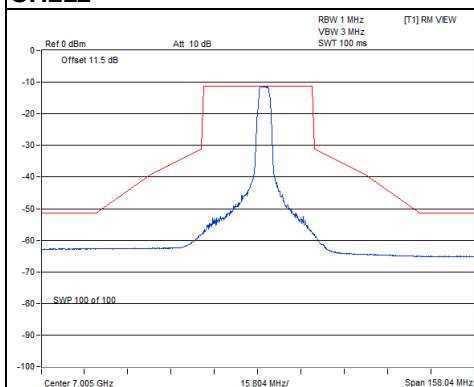
C179



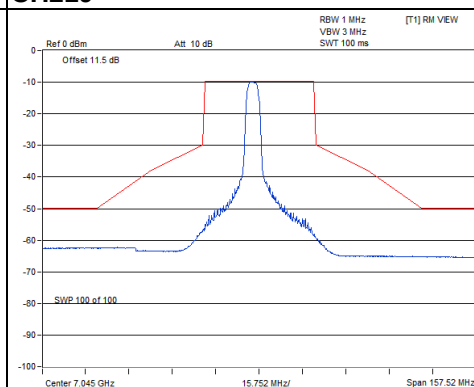
CH187



CH211



CH219

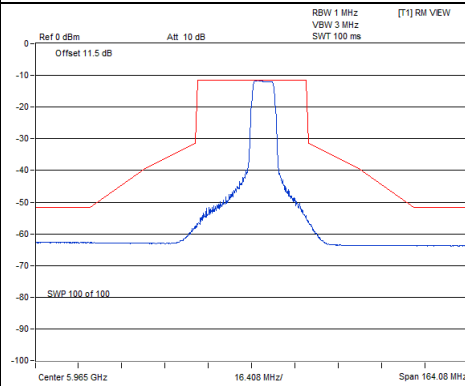


RU106

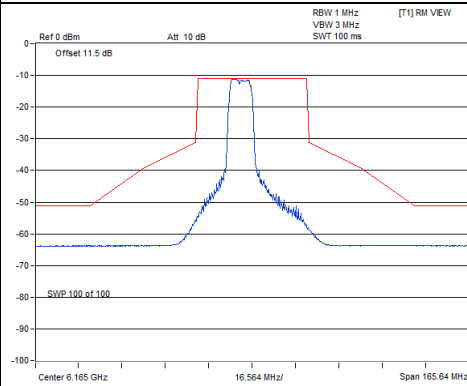
Spectrum Plot of Worst Value

Chain 0

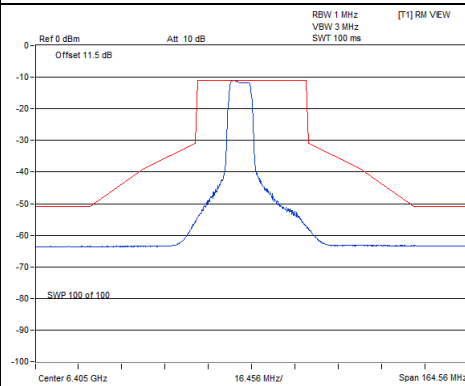
CH3



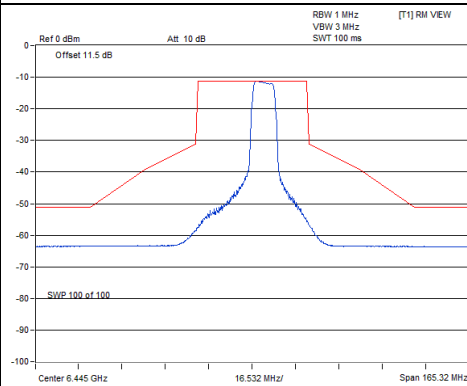
CH43



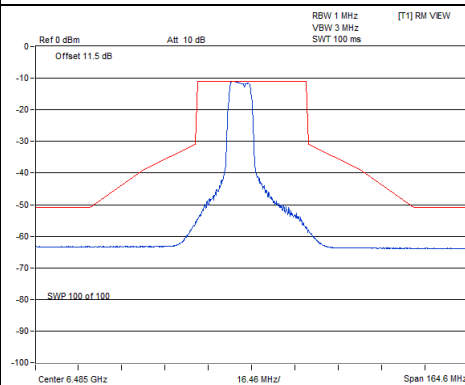
CH91



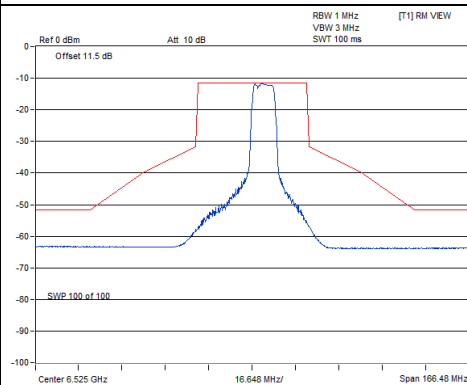
CH99



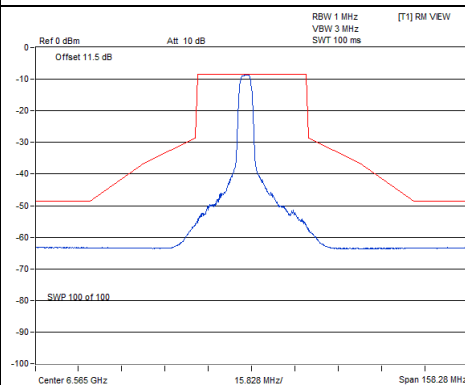
CH107



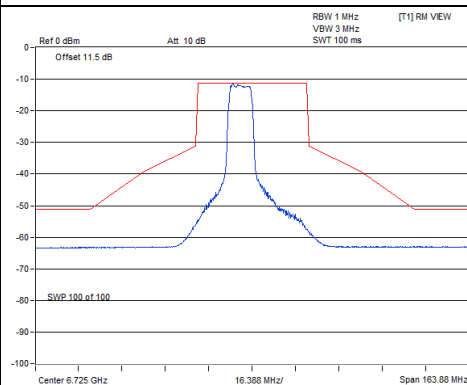
CH115



CH123



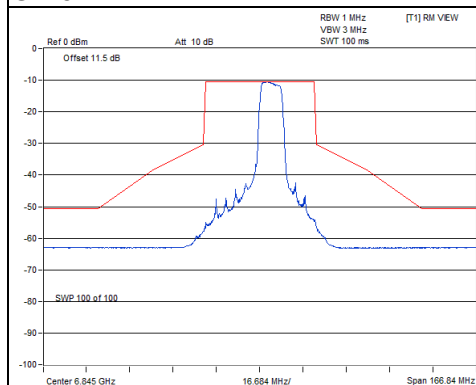
CH155



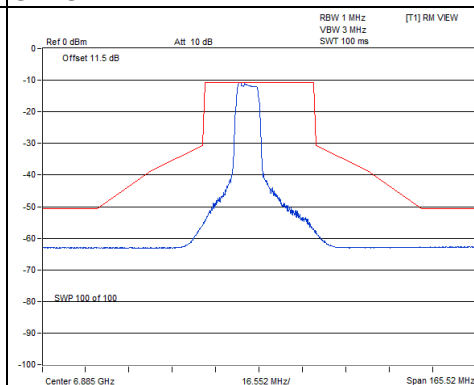
Spectrum Plot of Worst Value

Chain 0

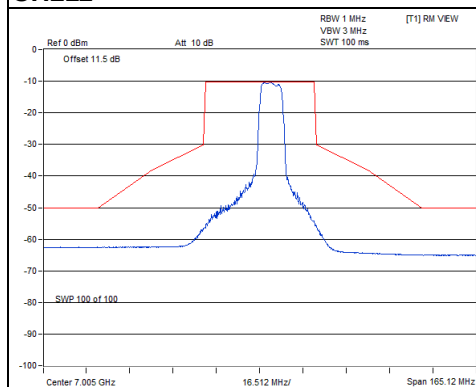
C179



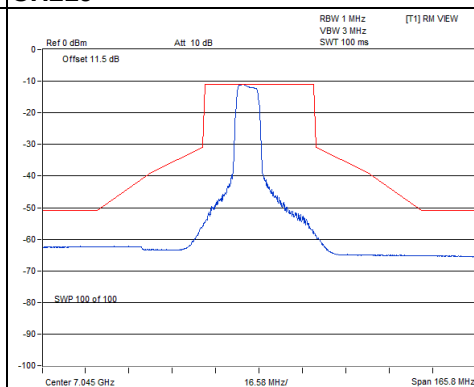
CH187



CH211



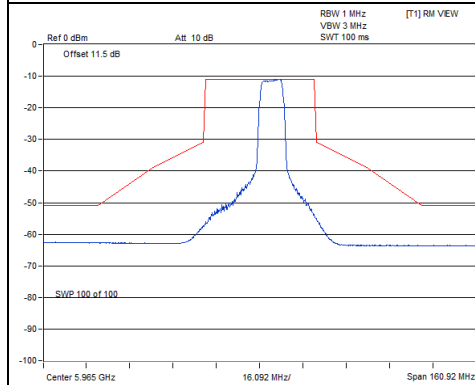
CH219



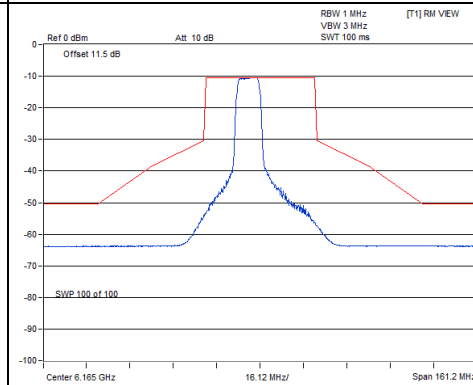
Spectrum Plot of Worst Value

Chain 1

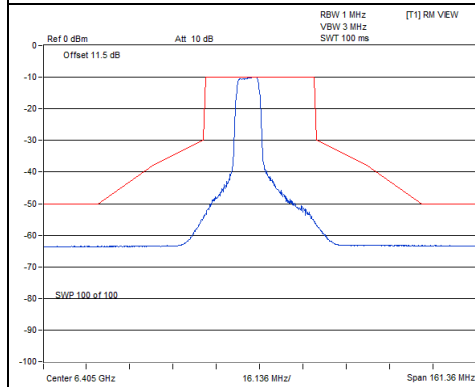
CH3



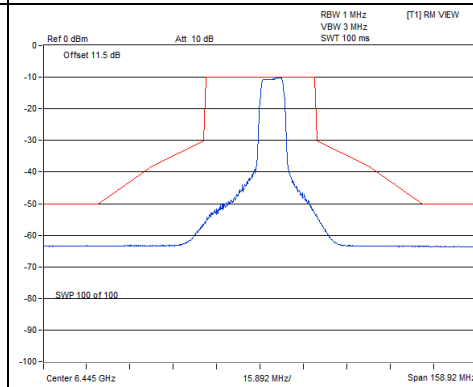
CH43



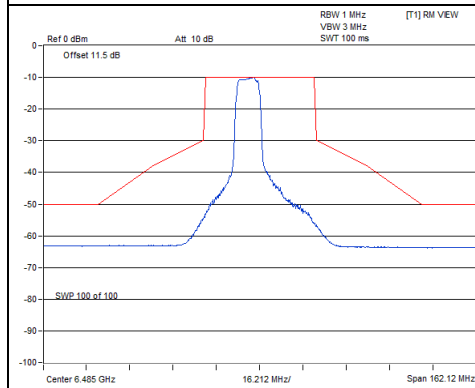
CH91



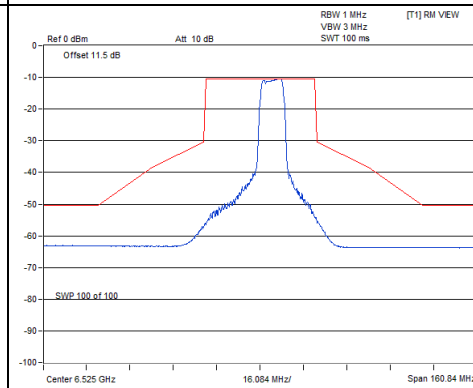
CH99



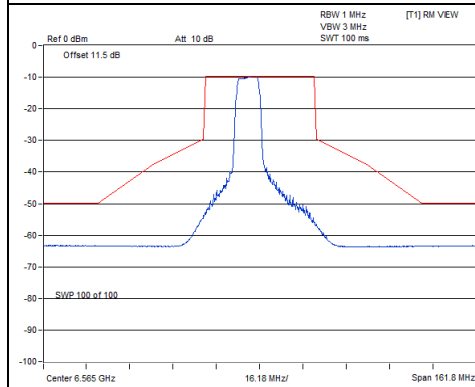
CH107



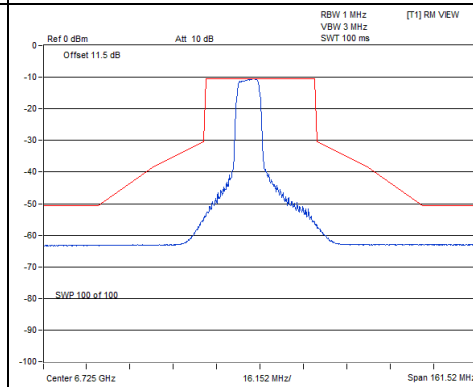
CH115



CH123



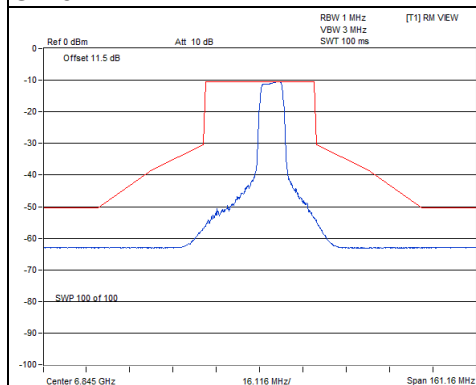
CH155



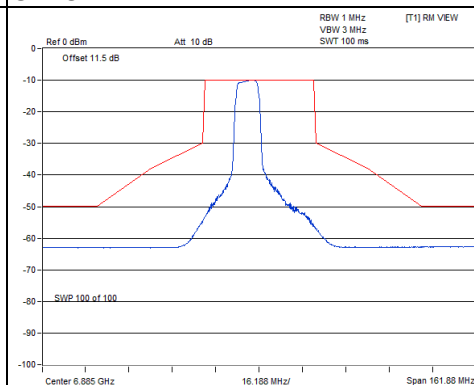
Spectrum Plot of Worst Value

Chain 1

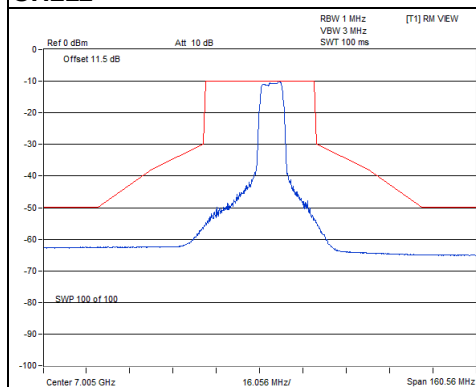
C179



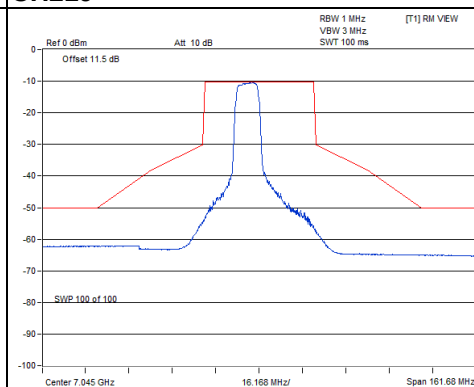
CH187



CH211



CH219

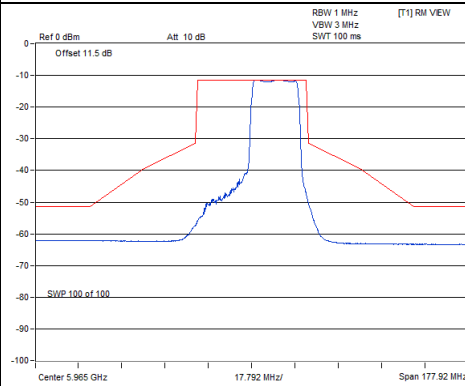


RU242

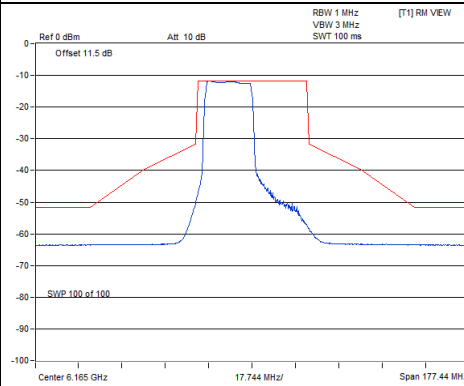
Spectrum Plot of Worst Value

Chain 0

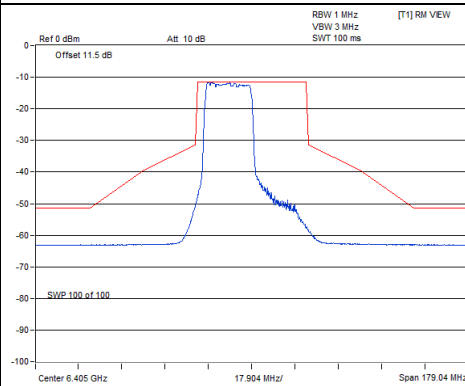
CH3



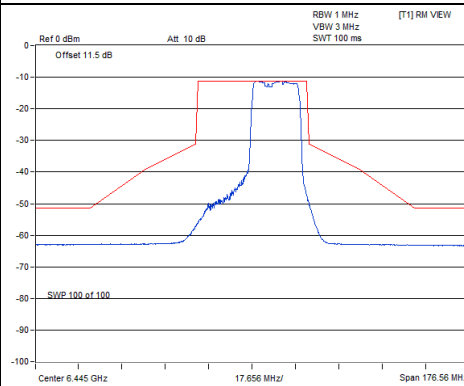
CH43



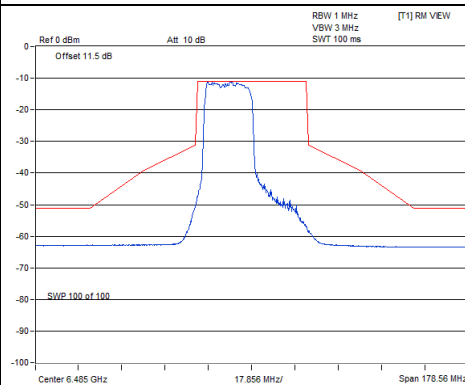
CH91



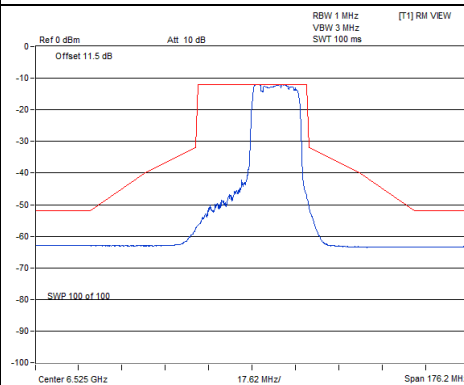
CH99



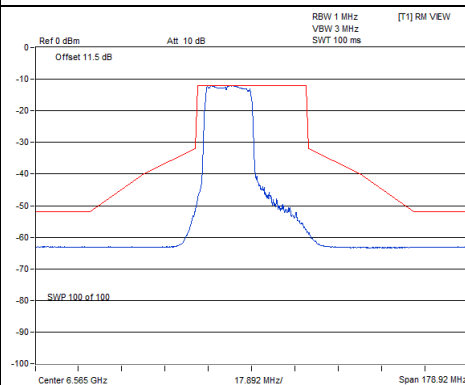
CH107



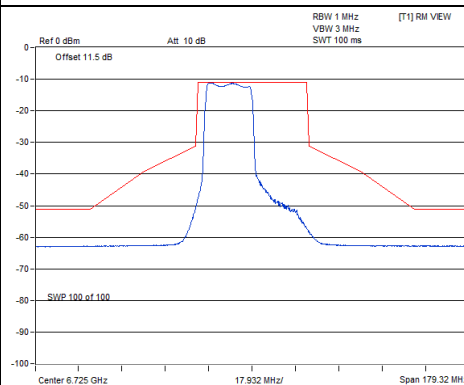
CH115



CH123



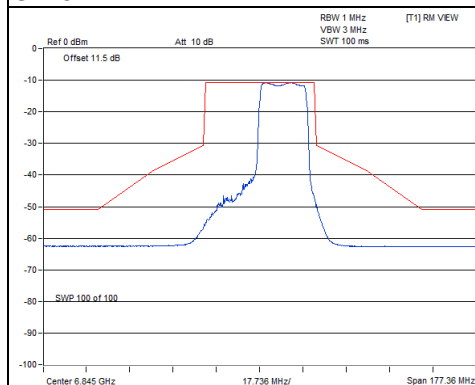
CH155



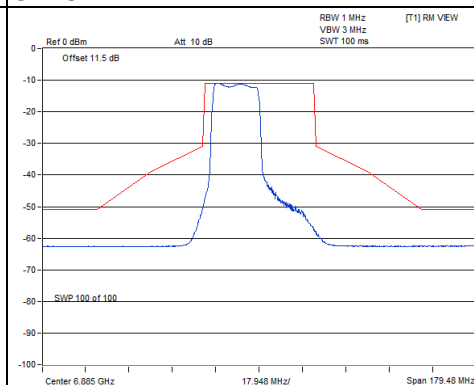
Spectrum Plot of Worst Value

Chain 0

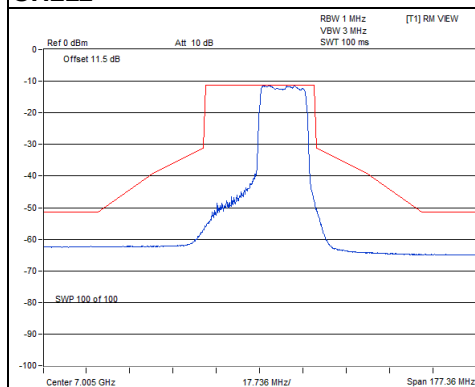
C179



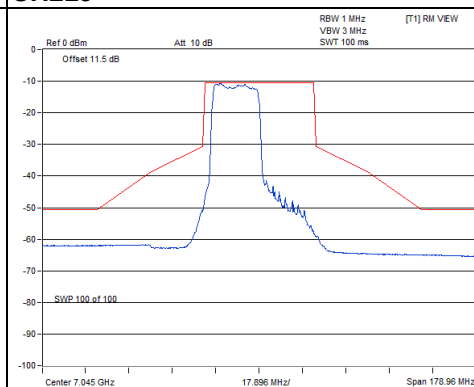
CH187



CH211



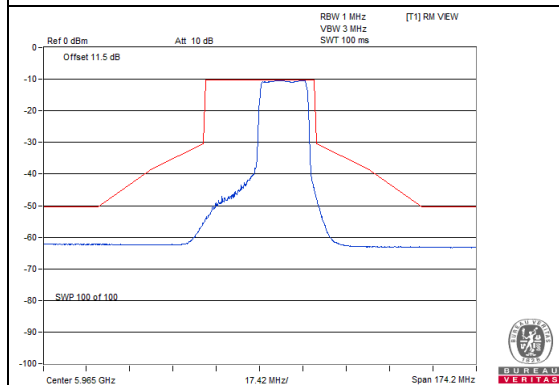
CH219



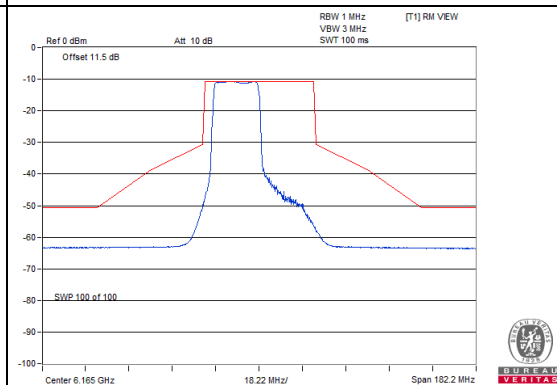
Spectrum Plot of Worst Value

Chain 1

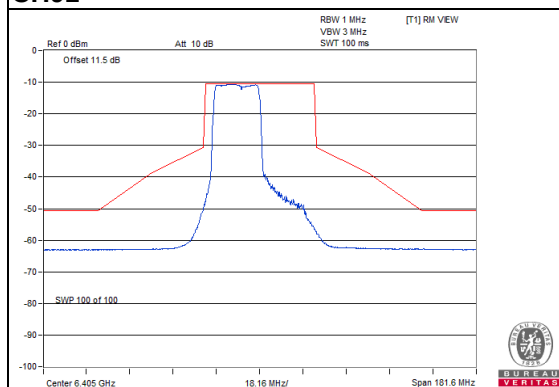
CH3



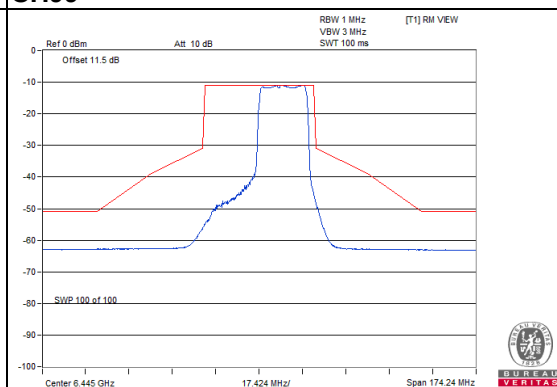
CH43



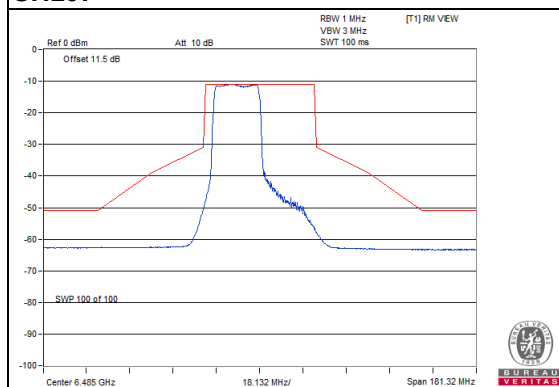
CH91



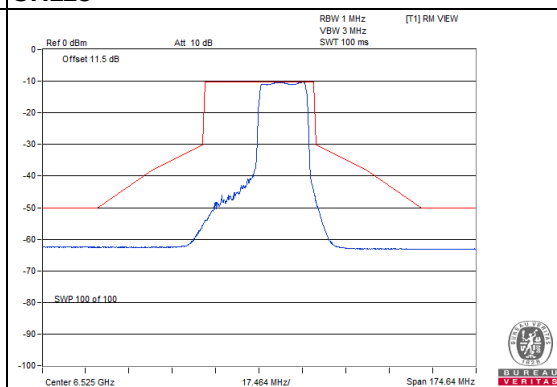
CH99



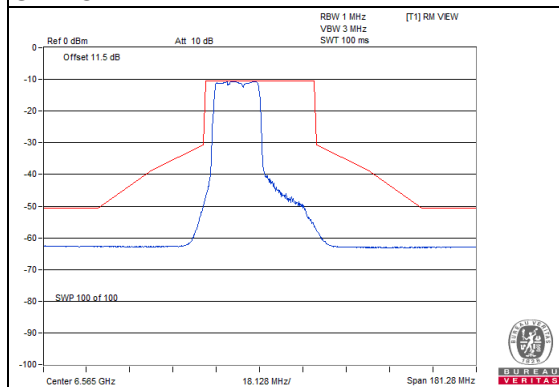
CH107



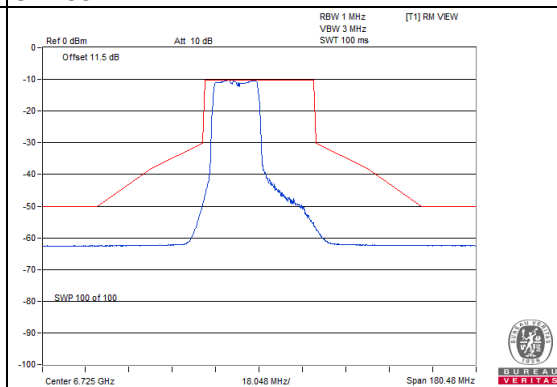
CH115



CH123



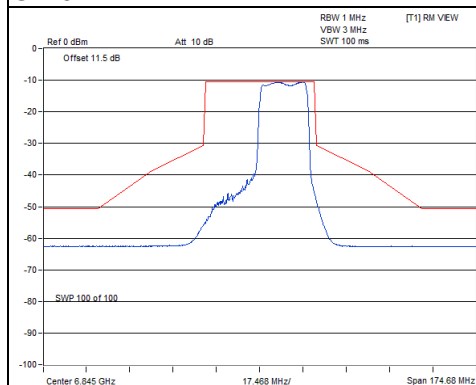
CH155



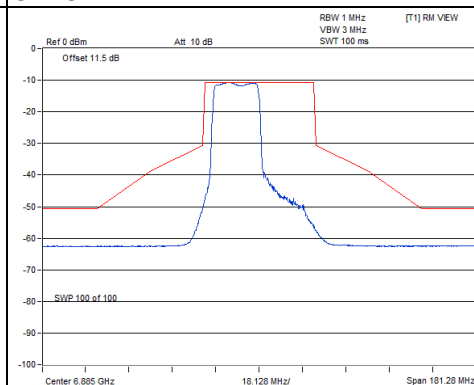
Spectrum Plot of Worst Value

Chain 1

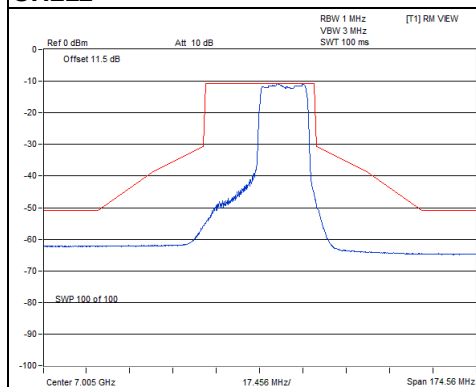
C179



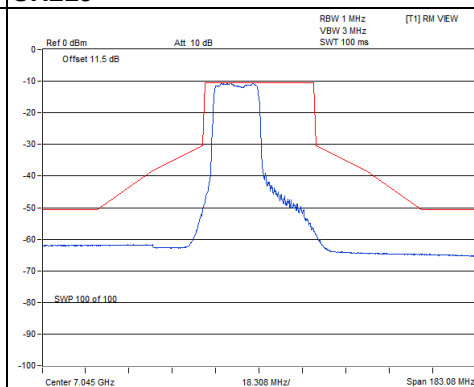
CH187



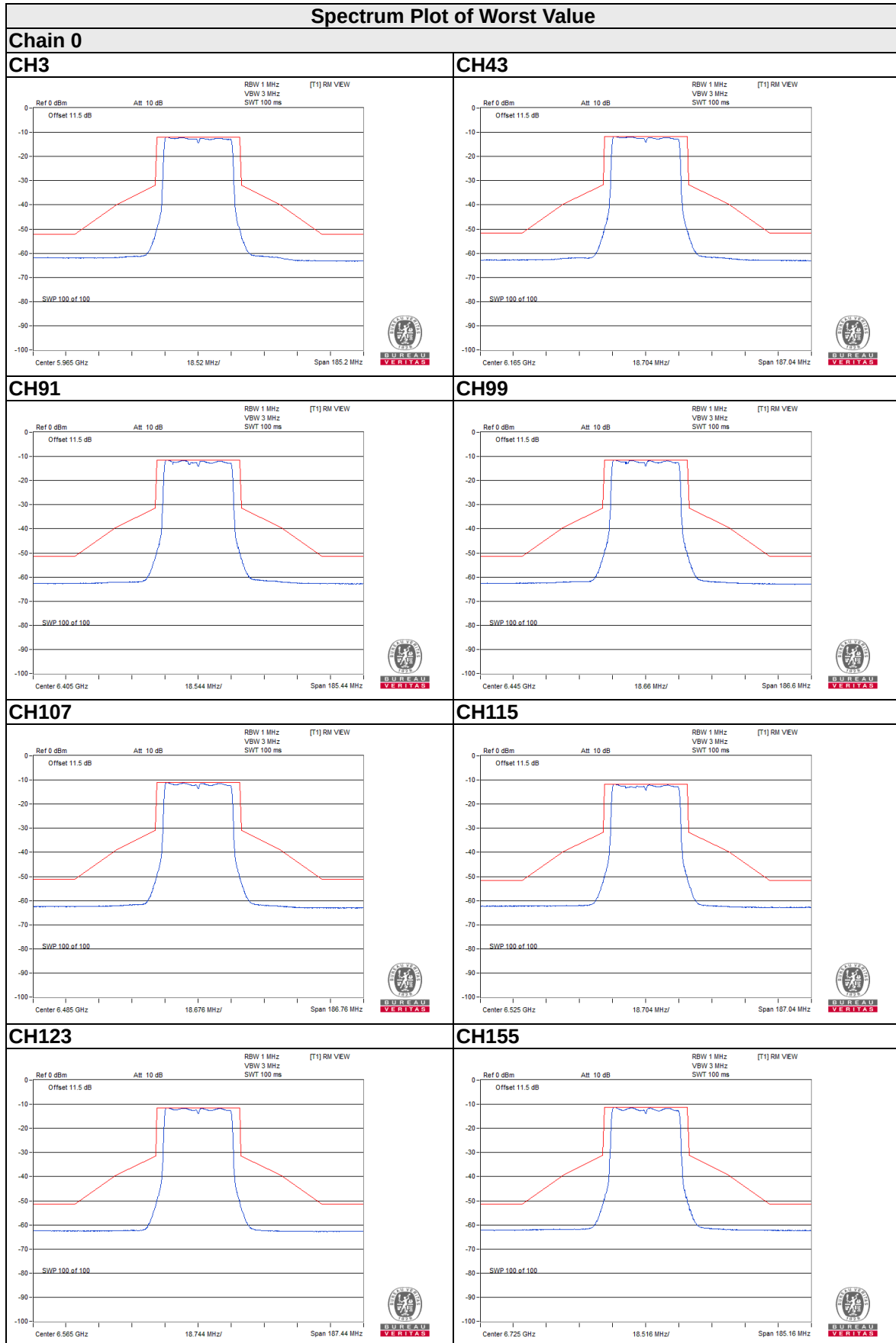
CH211



CH219



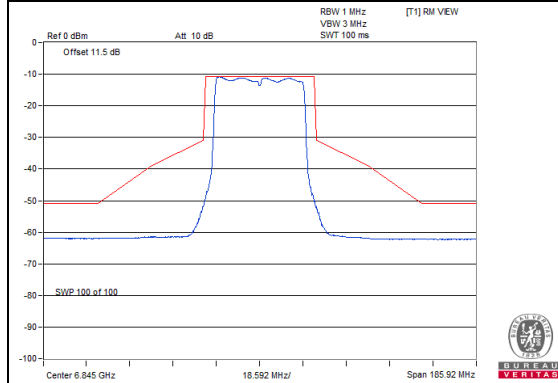
RU484



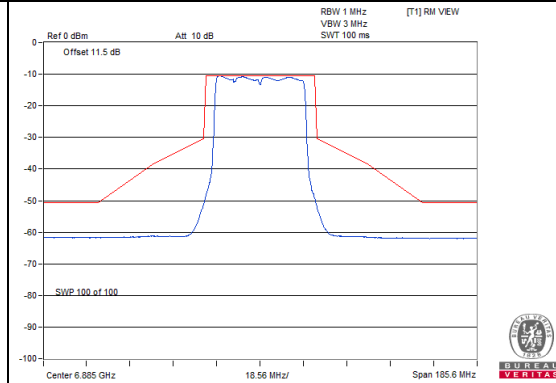
Spectrum Plot of Worst Value

Chain 0

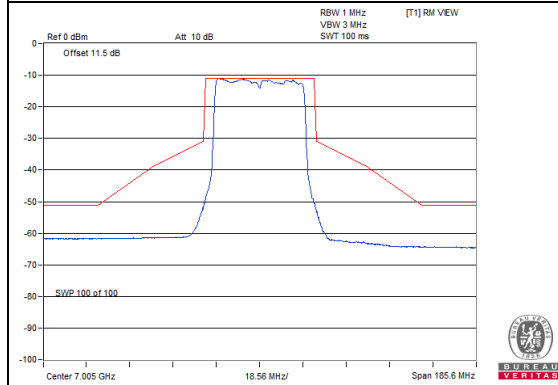
CH179



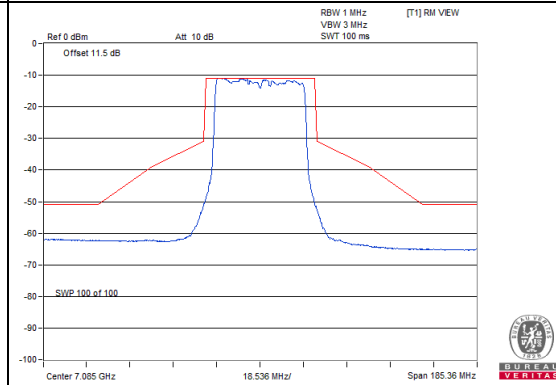
CH187



CH211



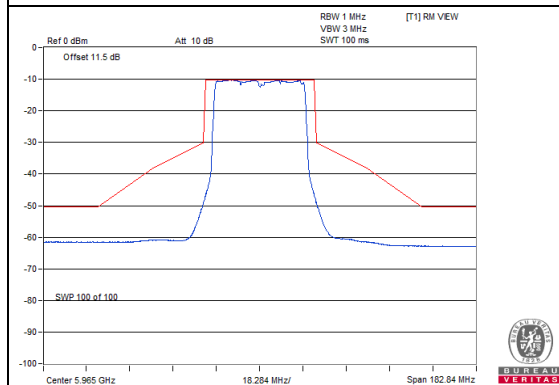
CH227



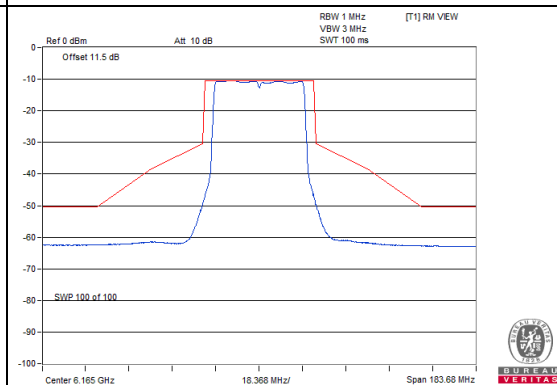
Spectrum Plot of Worst Value

Chain 1

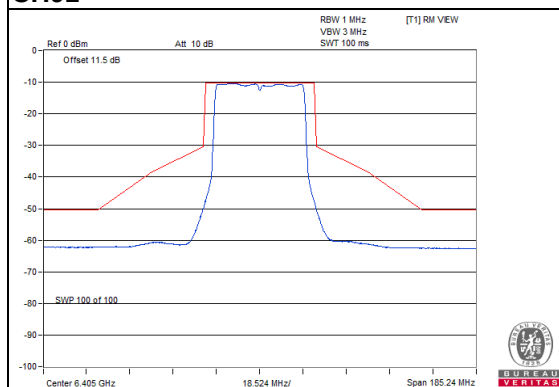
CH3



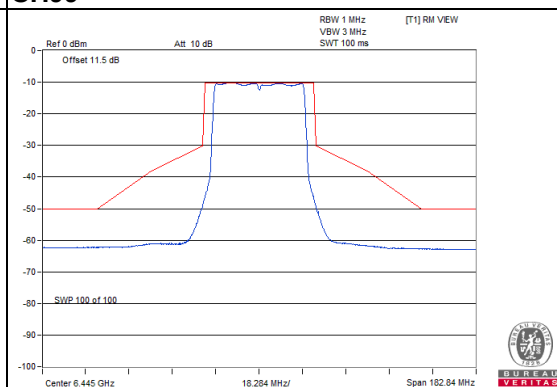
CH43



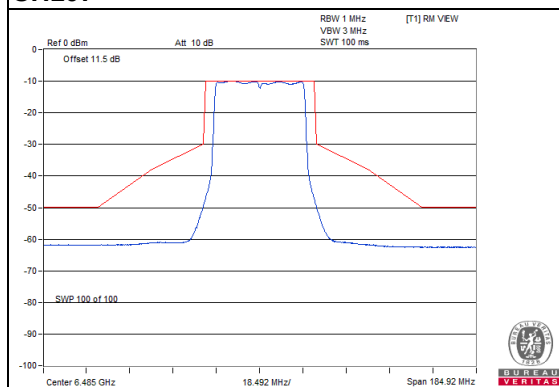
CH91



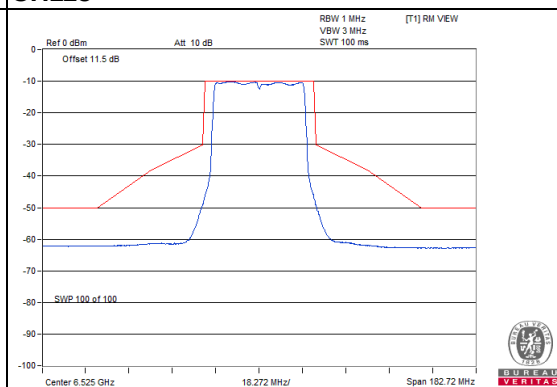
CH99



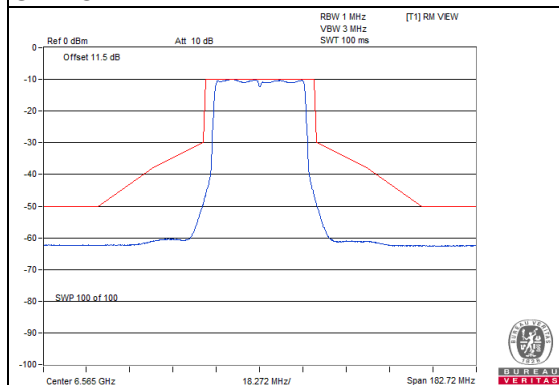
CH107



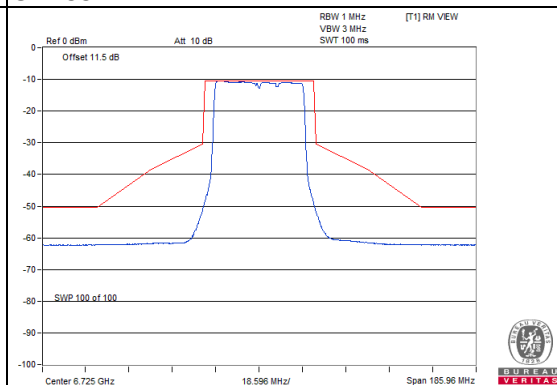
CH115



CH123



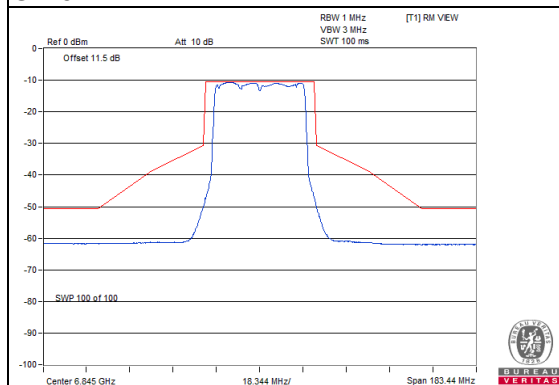
CH155



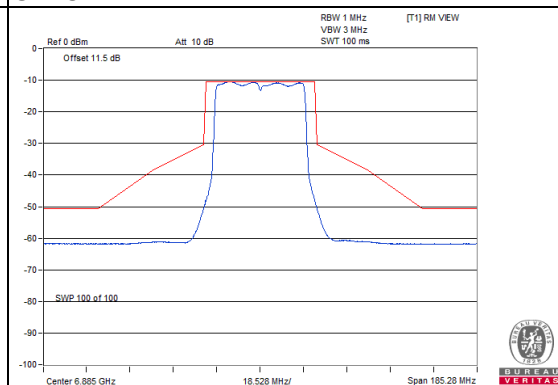
Spectrum Plot of Worst Value

Chain 1

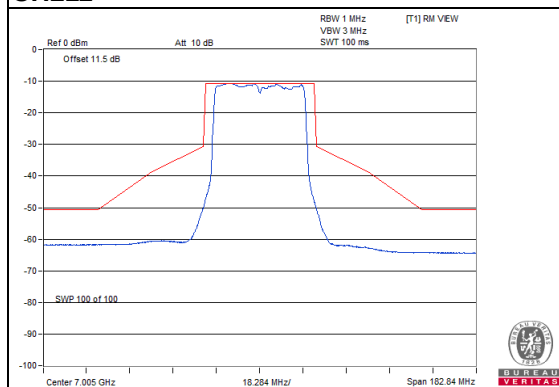
C179



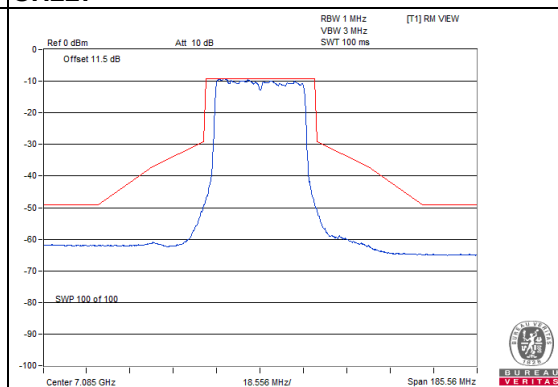
CH187



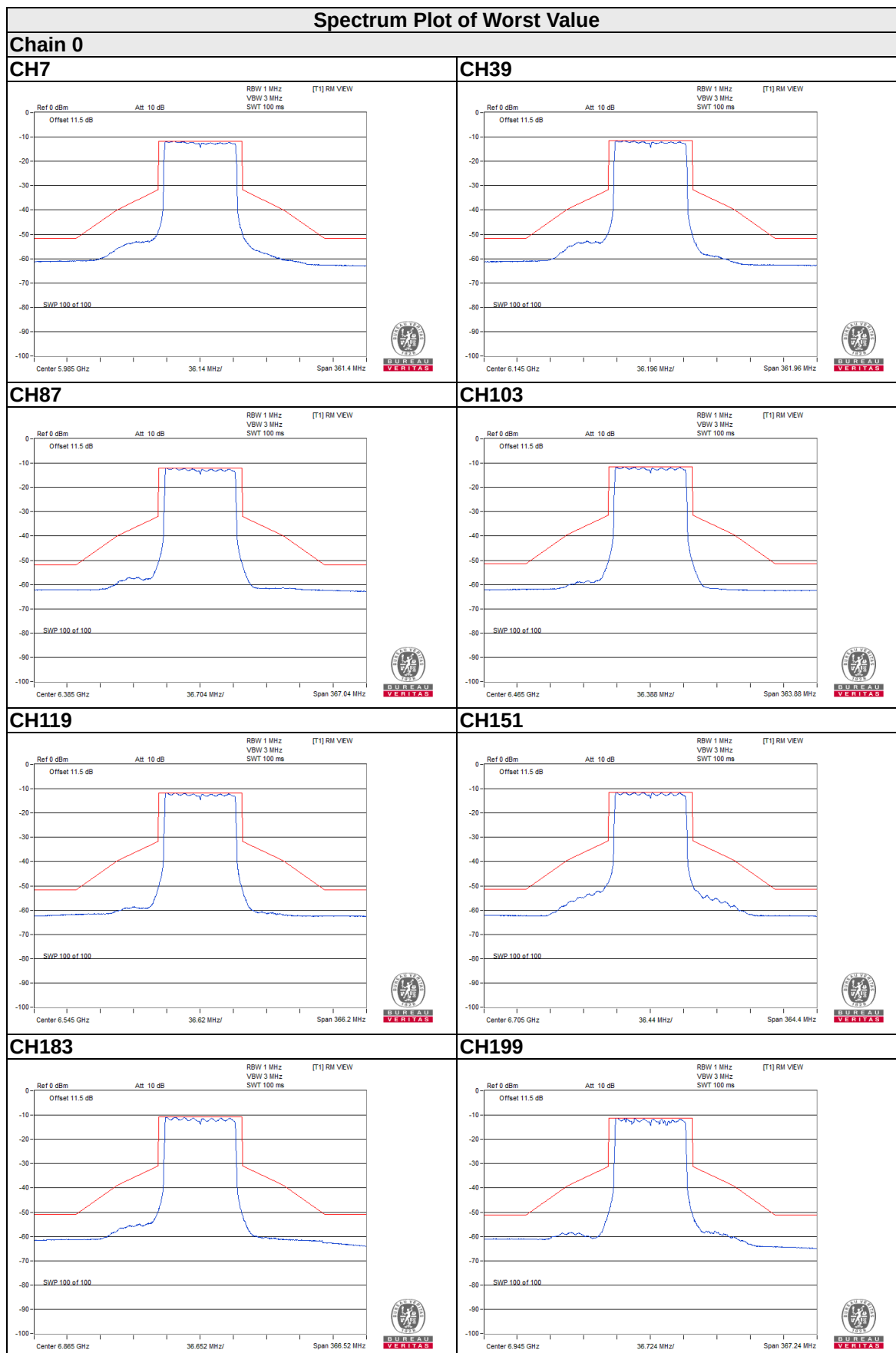
CH211



CH227



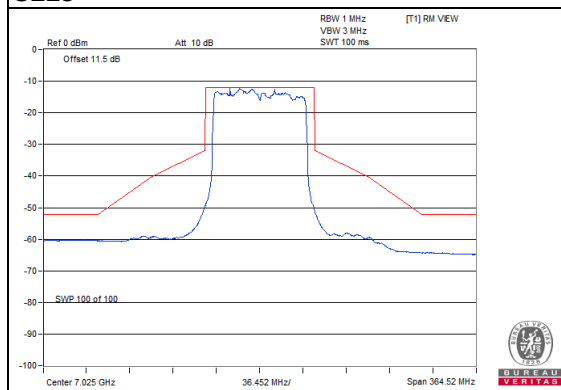
80MHz Preamble RU996



Spectrum Plot of Worst Value

Chain 0

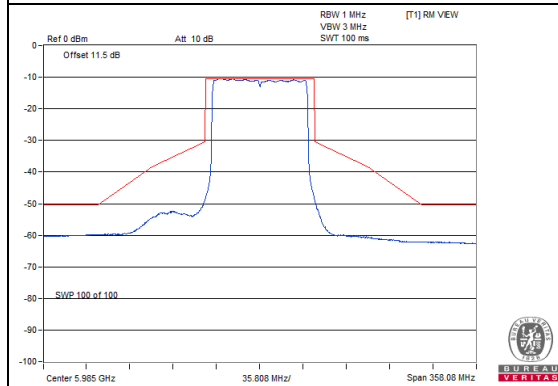
C215



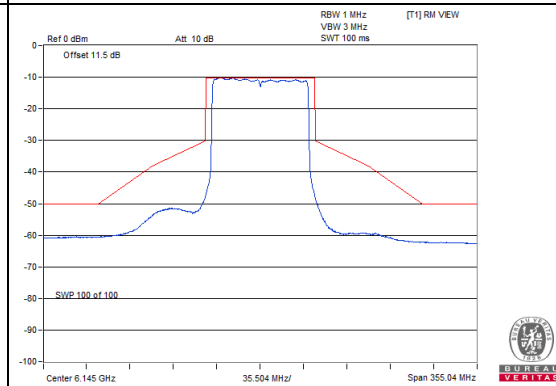
Spectrum Plot of Worst Value

Chain 1

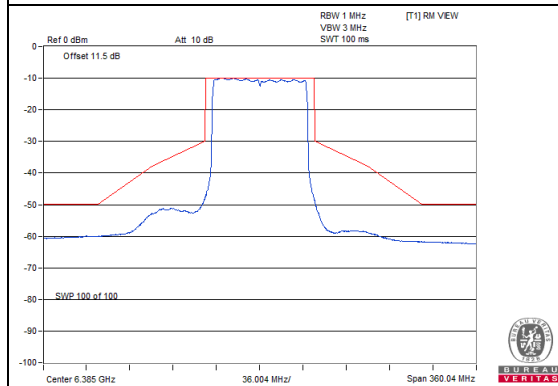
CH7



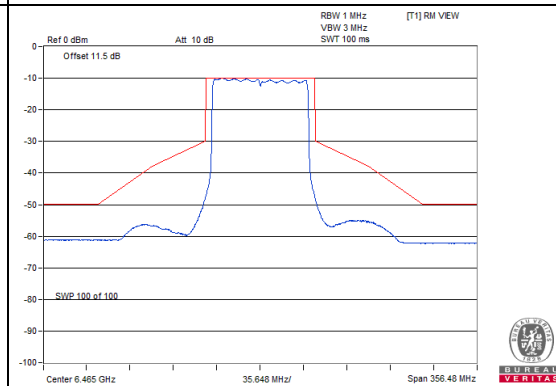
CH39



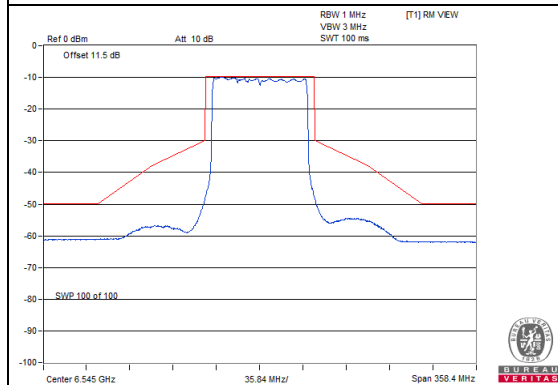
CH87



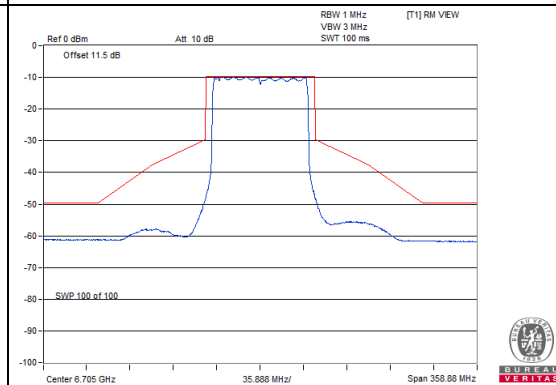
CH103



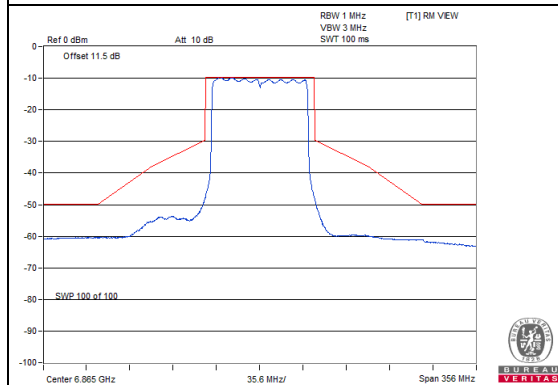
CH119



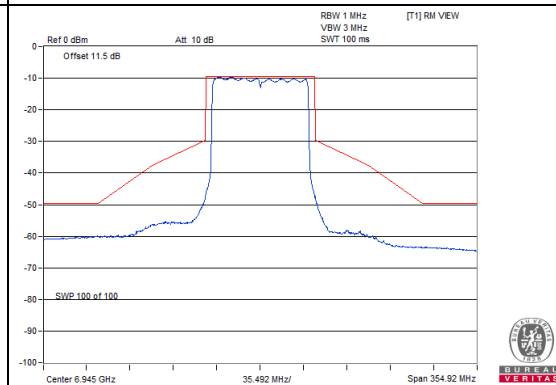
CH151

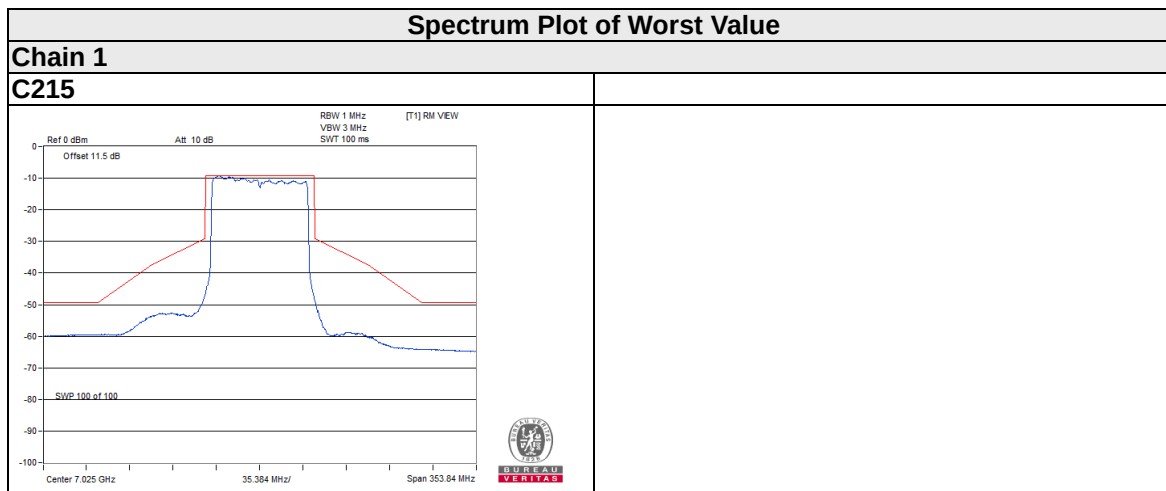


CH183

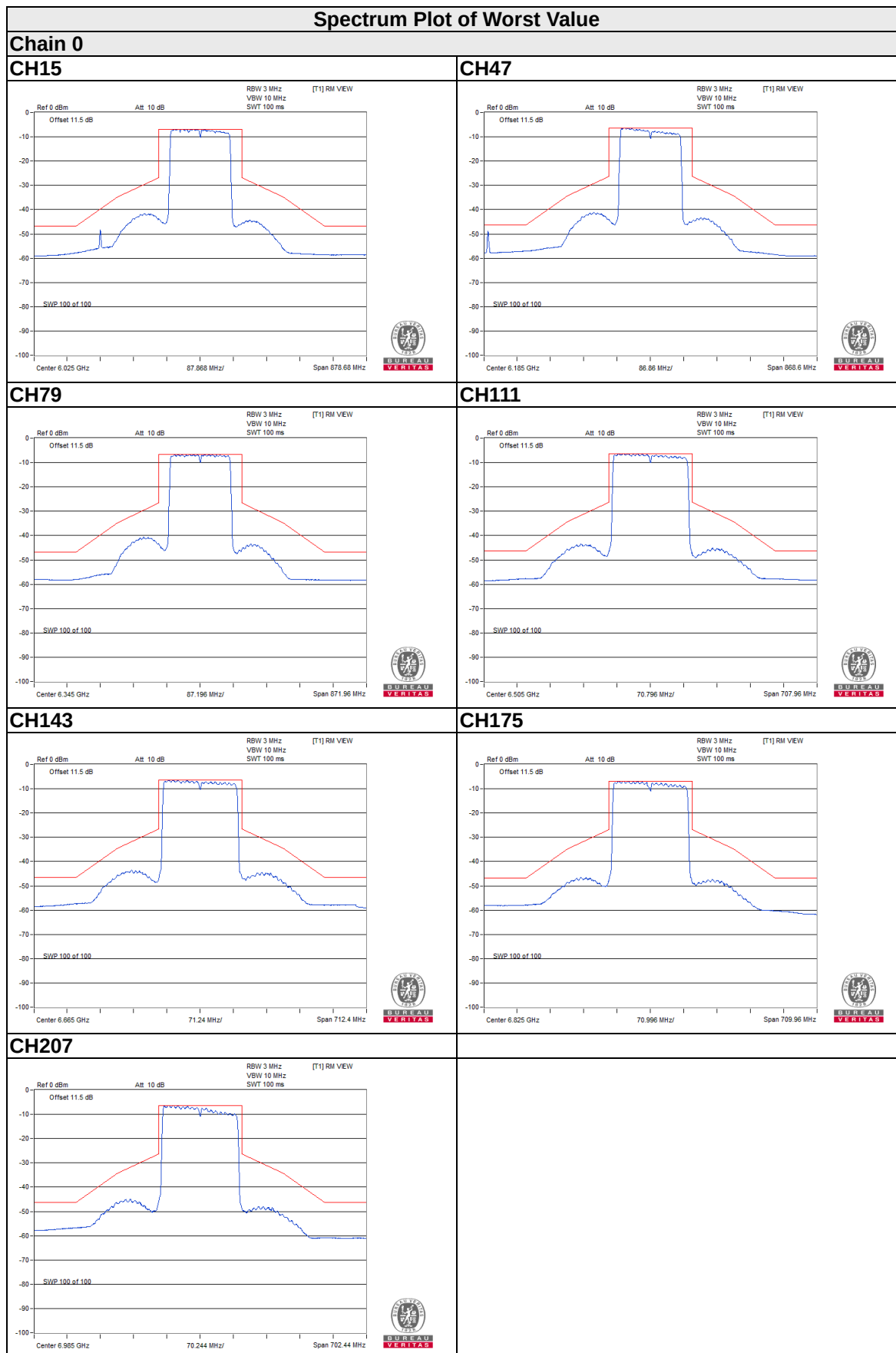


CH199





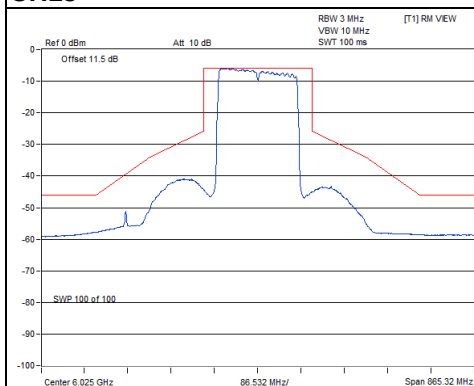
160MHz Preamble RU1992



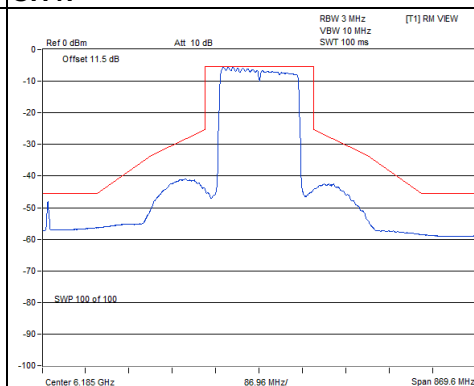
Spectrum Plot of Worst Value

Chain 1

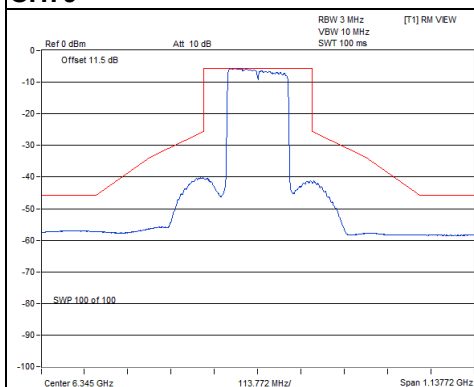
CH15



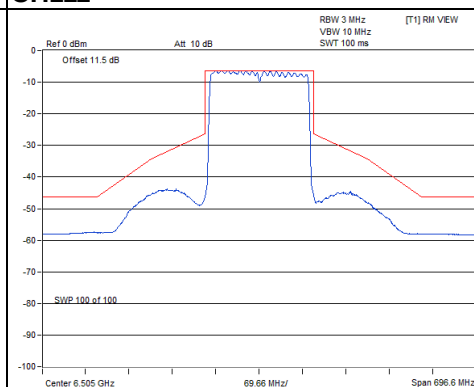
CH47



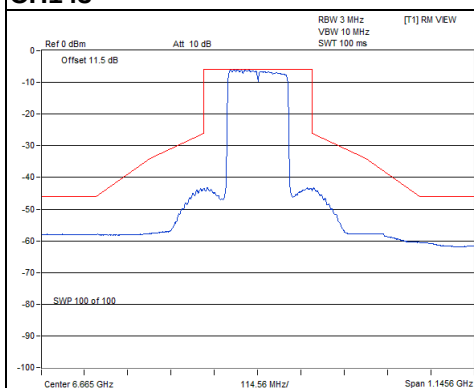
CH79



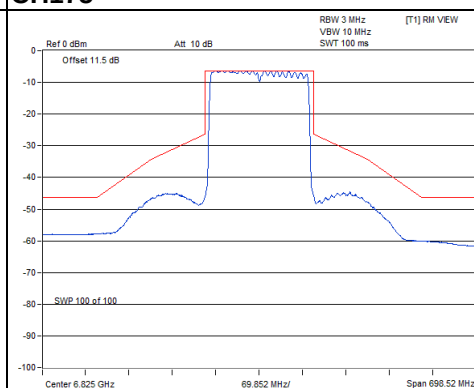
CH111



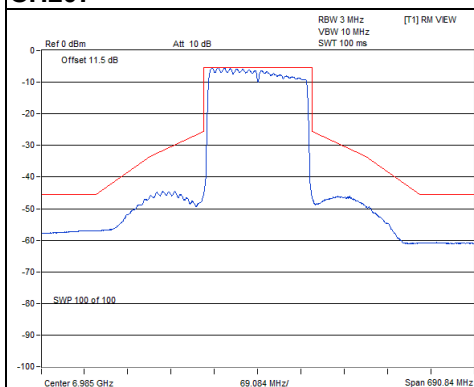
CH143



CH175



CH207



4.3 Conducted Emission Measurement

4.3.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.3.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 20, 2020	Oct. 19, 2021
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 27, 2020	Oct. 26, 2021
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 26, 2021	Mar. 25, 2022
50 ohms Terminator	50	3	Oct. 26, 2020	Oct. 25, 2021
RF Cable	5D-FB	COCCAB-001	Sep. 26, 2020	Sep. 25, 2021
Fixed attenuator EMCI	STI02-2200-10	005	Aug. 29, 2020	Aug. 28, 2021
Software BVADT	BVADT_Cond_V7.3.7.4	NA	NA	NA

Note:

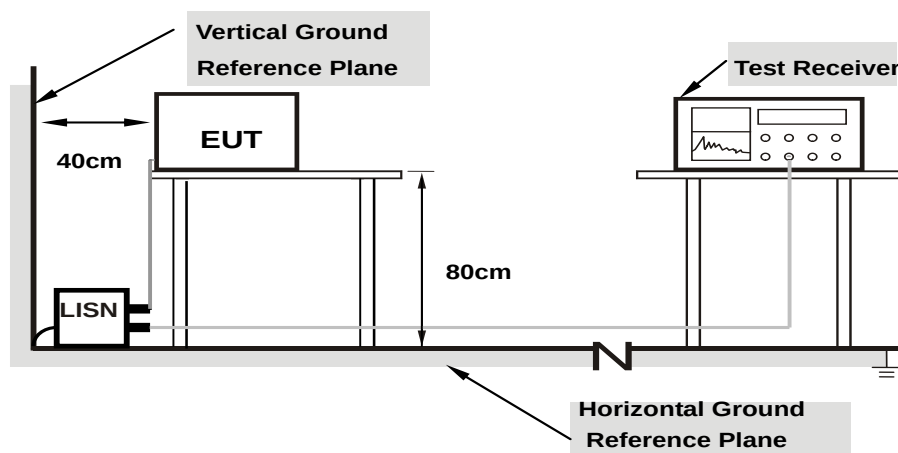
1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
- 3 Tested Date: May 28, 2021

4.3.3 Test Procedure

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.3.4 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.3.5 EUT Operating Condition

Same as 4.1.6.

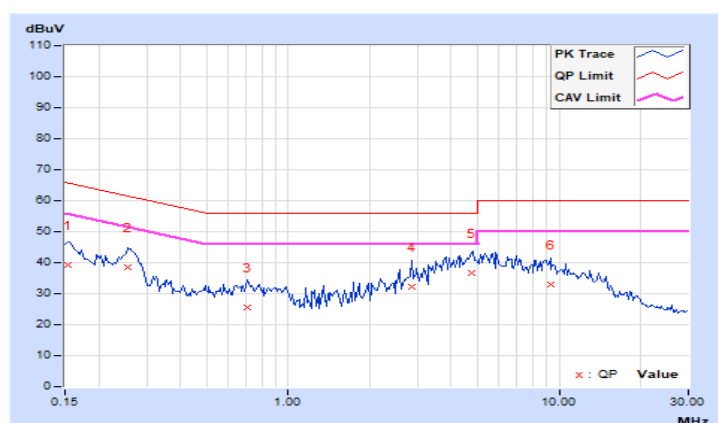
4.3.6 Test Results

RF Mode	TX 802.11a	Channel	CH 1 : 5955 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.96	29.21	12.62	39.17	22.58	65.79	55.79	-26.62	-33.21
2	0.25547	10.00	28.41	16.78	38.41	26.78	61.58	51.58	-23.17	-24.80
3	0.70859	10.04	15.68	5.50	25.72	15.54	56.00	46.00	-30.28	-30.46
4	2.84375	10.20	21.93	10.30	32.13	20.50	56.00	46.00	-23.87	-25.50
5	4.75000	10.33	26.36	15.00	36.69	25.33	56.00	46.00	-19.31	-20.67
6	9.32031	10.67	22.43	10.78	33.10	21.45	60.00	50.00	-26.90	-28.55

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

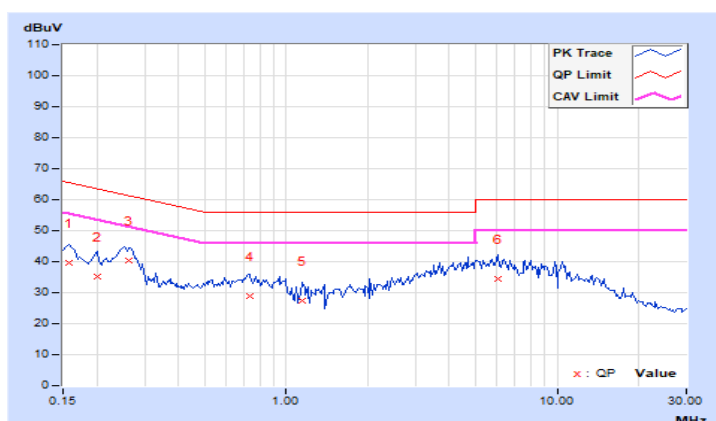


RF Mode	TX 802.11a	Channel	CH 1 : 5955 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	9.95	29.56	12.32	39.51	22.27	65.58	55.58	-26.07	-33.31
2	0.20078	9.98	25.04	13.88	35.02	23.86	63.58	53.58	-28.56	-29.72
3	0.26328	9.99	30.44	22.22	40.43	32.21	61.33	51.33	-20.90	-19.12
4	0.73203	10.04	18.98	8.63	29.02	18.67	56.00	46.00	-26.98	-27.33
5	1.14453	10.08	17.33	7.31	27.41	17.39	56.00	46.00	-28.59	-28.61
6	6.07422	10.38	24.06	13.88	34.44	24.26	60.00	50.00	-25.56	-25.74

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



4.4 Transmit Power Measurement

4.4.1 Limits of Transmit Power Measurement

Operation Band	EUT Category	Limit
		Max Average Power
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Dual Client Devices (controlled of an indoor AP)	EIRP 24 dBm
U-NII-5 U-NII-7	Dual Client Devices (controlled of an standard power AP)	EIRP 30 dBm

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

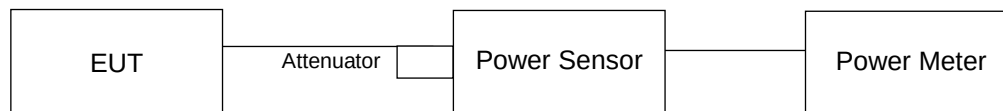
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

FOR POWER OUTPUT MEASUREMENT

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

Depends KDB 662911, the directional gain calculation as below,

CDD mode directional gain = GANT + Array Gain (Array Gain = 0 dBi)

U-NII-5: Directional Gain = 5.14 dBi + 0 dB = 5.14 dBi

U-NII-6: Directional Gain = 5.09 dBi + 0 dB = 5.08 dBi

U-NII-7: Directional Gain = 5.16 dBi + 0 dB = 5.16 dBi

U-NII-8: Directional Gain = 5.12 dBi + 0 dB = 5.12 dBi

Beamforming mode directional gain = GANT + Array Gain (Array Gain = 10 log (2))

U-NII-5: Directional Gain = 5.14 dBi + 3.01 dB = 8.15 dBi

U-NII-6: Directional Gain = 5.09 dBi + 3.01 dB = 8.10 dBi

U-NII-7: Directional Gain = 5.16 dBi + 3.01 dB = 8.17 dBi

U-NII-8: Directional Gain = 5.12 dBi + 3.01 dB = 8.13 dBi

Beamforming mode directional gain were used into calculation EIRP.

4.4.5 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.4.6 Test Result (Mode 1)

Power Output:

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
2	5935	9.42	10.12	19.03	12.79	8.15	124.165	20.94	30	Pass
1	5955	15.87	16.55	83.822	19.23	8.15	547.016	27.38	30	Pass
45	6175	15.26	16.49	78.139	18.93	8.15	510.505	27.08	30	Pass
93	6415	15.02	16.52	76.643	18.84	8.15	500.035	26.99	30	Pass
117	6535	15.05	16.51	76.76	18.85	8.17	503.501	27.02	30	Pass
149	6695	15.16	16.55	77.995	18.92	8.17	511.682	27.09	30	Pass
181	6855	15.65	16.57	82.122	19.14	8.17	538.27	27.31	30	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
2	5935	-5.60	-5.39	0.5645	-2.48	8.15	3.69	5.67	30	Pass
1	5955	15.88	16.45	82.883	19.18	8.15	540.754	27.33	30	Pass
45	6175	15.33	16.14	75.234	18.76	8.15	490.908	26.91	30	Pass
93	6415	15.16	16.28	75.271	18.77	8.15	492.04	26.92	30	Pass
117	6535	15.03	16.41	75.594	18.78	8.17	495.45	26.95	30	Pass
149	6695	15.13	16.41	76.336	18.83	8.17	501.187	27.00	30	Pass
181	6855	15.78	16.44	81.9	19.13	8.17	537.032	27.30	30	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
3	5965	15.09	15.89	71.1	18.52	8.15	464.515	26.67	30	Pass
43	6165	14.85	16.09	71.194	18.52	8.15	464.515	26.67	30	Pass
91	6405	14.55	16.14	69.625	18.43	8.15	454.988	26.58	30	Pass
123	6565	14.68	16.43	73.331	18.65	8.17	480.839	26.82	30	Pass
155	6725	14.62	16.26	71.24	18.53	8.17	467.735	26.70	30	Pass
179	6845	14.76	15.92	69.007	18.39	8.17	452.898	26.56	30	Pass

Note: 1. For U-NII-5: Directional gain = $5.14\text{dBi} + 10\log(2) = 8.15\text{dBi}$

For U-NII-7: Directional gain = $5.16\text{dBi} + 10\log(2) = 8.17\text{dBi}$

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
7	5985	14.47	15.06	60.053	17.79	8.15	392.645	25.94	30	Pass
39	6145	14.36	15.72	64.615	18.1	8.15	421.697	26.25	30	Pass
87	6385	14.18	15.90	65.086	18.13	8.15	424.62	26.28	30	Pass
135	6625	14.13	15.91	64.876	18.12	8.17	425.598	26.29	30	Pass
151	6705	14.42	15.82	65.864	18.19	8.17	432.514	26.36	30	Pass
167	6785	13.94	15.51	60.337	17.81	8.17	396.278	25.98	30	Pass

Note: 1. For U-NII-5: Directional gain = $5.14\text{dBi} + 10\log(2) = 8.15\text{dBi}$

For U-NII-7: Directional gain = $5.16\text{dBi} + 10\log(2) = 8.17\text{dBi}$

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
15	6025	14.25	15.09	58.892	17.7	8.15	384.592	25.85	30	Pass
47	6185	13.60	14.91	53.883	17.31	8.15	351.56	25.46	30	Pass
79	6345	13.55	14.88	53.407	17.28	8.15	349.14	25.43	30	Pass
143	6665	13.37	14.98	53.204	17.26	8.17	349.14	25.43	30	Pass

Note: 1. For U-NII-5: Directional gain = $5.14\text{dBi} + 10\log(2) = 8.15\text{dBi}$

For U-NII-7: Directional gain = $5.16\text{dBi} + 10\log(2) = 8.17\text{dBi}$

20MHz Preamble

802.11ax (RU26)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
26/0	2	5935	-15.71	-15.60	0.0544	-12.64	8.15	0.356	-4.49	30	Pass
26/0	1	5955	8.59	8.98	15.134	11.8	8.15	98.855	19.95	30	Pass
26/4	45	6175	8.42	9.90	16.723	12.23	8.15	109.144	20.38	30	Pass
26/8	93	6415	7.26	9.88	15.049	11.78	8.15	98.401	19.93	30	Pass
26/0	117	6535	7.93	9.46	15.039	11.77	8.17	98.628	19.94	30	Pass
26/4	149	6695	8.36	9.97	16.786	12.25	8.17	110.154	20.42	30	Pass
26/8	181	6855	7.47	9.73	14.982	11.76	8.17	98.401	19.93	30	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

802.11ax (RU52)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
52/37	2	5935	-13.85	-13.43	0.0866	-10.62	8.15	0.566	-2.47	30	Pass
52/37	1	5955	11.45	12.03	29.922	14.76	8.15	195.434	22.91	30	Pass
52/38	45	6175	10.75	12.59	30.04	14.78	8.15	196.336	22.93	30	Pass
52/40	93	6415	10.24	12.89	30.022	14.77	8.15	195.884	22.92	30	Pass
52/37	117	6535	11.07	12.42	30.252	14.81	8.17	198.609	22.98	30	Pass
52/38	149	6695	10.48	12.73	29.919	14.76	8.17	196.336	22.93	30	Pass
52/40	181	6855	10.59	12.67	29.948	14.76	8.17	196.336	22.93	30	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

802.11ax (RU106)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
106/53	2	5935	-12.88	-12.49	0.10789	-9.67	8.15	0.705	-1.52	30	Pass
106/53	1	5955	14.33	15.17	59.987	17.78	8.15	391.742	25.93	30	Pass
106/53	45	6175	13.93	15.49	60.117	17.79	8.15	392.645	25.94	30	Pass
106/54	93	6415	13.75	15.57	59.772	17.76	8.15	389.942	25.91	30	Pass
106/53	117	6535	13.87	15.63	60.938	17.85	8.17	399.945	26.02	30	Pass
106/54	149	6695	13.90	15.56	60.522	17.82	8.17	397.192	25.99	30	Pass
106/54	181	6855	13.91	15.46	59.76	17.76	8.17	391.742	25.93	30	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

802.11ax (RU242)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
242/61	2	5935	-10.13	-9.45	0.21055	-6.77	8.15	1.374	1.38	30	Pass
242/61	1	5955	15.72	16.46	81.584	19.12	8.15	533.335	27.27	30	Pass
242/61	45	6175	15.36	16.42	78.209	18.93	8.15	510.505	27.08	30	Pass
242/61	93	6415	15.24	16.73	80.517	19.06	8.15	526.017	27.21	30	Pass
242/61	117	6535	14.88	16.52	75.636	18.79	8.17	496.592	26.96	30	Pass
242/61	149	6695	15.26	16.79	81.327	19.1	8.17	533.335	27.27	30	Pass
242/61	181	6855	15.40	16.56	79.963	19.03	8.17	524.807	27.20	30	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

40MHz Preamble

802.11ax (RU26)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
26/9	3	5965	8.70	8.83	15.051	11.78	8.15	98.401	19.93	30	Pass
26/27	43	6165	7.73	9.75	15.37	11.87	8.15	100.462	20.02	30	Pass
26/27	91	6405	7.58	9.68	15.018	11.77	8.15	98.175	19.92	30	Pass
26/9	123	6565	7.41	9.82	15.102	11.79	8.17	99.083	19.96	30	Pass
26/9	155	6725	7.46	9.74	14.991	11.76	8.17	98.401	19.93	30	Pass
26/27	179	6845	8.52	8.97	15.001	11.76	8.17	98.401	19.93	30	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

802.11ax (RU52)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
52/41	3	5965	11.71	11.96	30.529	14.85	8.15	199.526	23.00	30	Pass
52/48	43	6165	11.14	12.30	29.984	14.77	8.15	195.884	22.92	30	Pass
52/48	91	6405	10.62	12.65	29.942	14.76	8.15	195.434	22.91	30	Pass
52/41	123	6565	10.38	12.83	30.101	14.79	8.17	197.697	22.96	30	Pass
52/41	155	6725	10.43	12.77	29.964	14.77	8.17	196.789	22.94	30	Pass
52/48	179	6845	11.51	12.02	30.08	14.78	8.17	197.242	22.95	30	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

802.11ax (RU106)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
106/55	3	5965	13.96	15.43	59.803	17.77	8.15	390.841	25.92	30	Pass
106/58	43	6165	14.10	15.36	60.06	17.79	8.15	392.645	25.94	30	Pass
106/58	91	6405	14.39	15.20	60.592	17.82	8.15	395.367	25.97	30	Pass
106/55	123	6565	14.27	15.33	60.849	17.84	8.17	399.025	26.01	30	Pass
106/55	155	6725	14.26	15.27	60.32	17.8	8.17	395.367	25.97	30	Pass
106/58	179	6845	14.48	15.04	59.97	17.78	8.17	393.55	25.95	30	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

802.11ax (RU242)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
242/63	3	5965	15.09	16.36	75.536	18.78	8.15	493.174	26.93	30	Pass
242/62	43	6165	15.35	16.53	79.255	18.99	8.15	517.607	27.14	30	Pass
242/62	91	6405	14.96	16.43	75.287	18.77	8.15	492.04	26.92	30	Pass
242/63	123	6565	15.03	16.63	77.868	18.91	8.17	510.505	27.08	30	Pass
242/63	155	6725	15.36	16.69	81.022	19.09	8.17	532.108	27.26	30	Pass
242/62	179	6845	15.42	16.38	78.285	18.94	8.17	514.044	27.11	30	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

802.11ax (RU484)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
484/65	3	5965	15.42	16.06	75.198	18.76	8.15	490.908	26.91	30	Pass
484/65	43	6165	15.32	16.51	78.812	18.97	8.15	515.229	27.12	30	Pass
484/65	91	6405	15.06	16.39	75.614	18.79	8.15	494.311	26.94	30	Pass
484/65	123	6565	15.02	16.61	77.583	18.9	8.17	509.331	27.07	30	Pass
484/65	155	6725	15.33	16.68	80.678	19.07	8.17	529.663	27.24	30	Pass
484/65	179	6845	15.15	16.29	75.294	18.77	8.17	494.311	26.94	30	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

80MHz Preamble

802.11ax (RU996)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
996/67	7	5985	15.53	16.05	75.999	18.81	8.15	496.592	26.96	30	Pass
996/67	39	6145	15.37	16.53	79.413	19	8.15	518.8	27.15	30	Pass
996/67	87	6385	15.12	16.60	78.218	18.93	8.15	510.505	27.08	30	Pass
996/67	135	6625	15.36	16.85	82.773	19.18	8.17	543.25	27.35	30	Pass
996/67	151	6705	15.03	16.36	75.093	18.76	8.17	493.174	26.93	30	Pass
996/67	167	6785	15.06	16.37	75.414	18.77	8.17	494.311	26.94	30	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

160MHz Preamble

802.11ax (RU1992)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
1992/68	15	6025	12.15	12.84	35.637	15.52	8.15	232.809	23.67	30	Pass
1992/68	47	6185	15.23	16.22	75.222	18.76	8.15	490.908	26.91	30	Pass
1992/68	79	6345	15.24	16.27	75.784	18.8	8.15	495.45	26.95	30	Pass
1992/68	143	6665	14.94	16.48	75.652	18.79	8.17	496.592	26.96	30	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

4.4.7 Test Result (Mode 2)

Power Output:

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
2	5935	-1.25	-0.63	1.6149	2.08	8.15	10.544	10.23	24	Pass
1	5955	-1.47	-0.38	1.6291	2.12	8.15	10.641	10.27	24	Pass
45	6175	-1.81	-0.61	1.5281	1.84	8.15	9.977	9.99	24	Pass
93	6415	-1.99	-0.30	1.5657	1.95	8.15	10.233	10.10	24	Pass
97	6435	-1.60	0.10	1.7151	2.34	8.1	11.066	10.44	24	Pass
105	6475	-1.51	-0.20	1.6613	2.2	8.1	10.715	10.30	24	Pass
113	6515	-1.35	-0.04	1.7237	2.36	8.1	11.117	10.46	24	Pass
117	6535	-1.68	-0.21	1.632	2.13	8.17	10.715	10.30	24	Pass
149	6695	-1.79	-0.26	1.6041	2.05	8.17	10.52	10.22	24	Pass
181	6855	-1.20	-0.52	1.6457	2.16	8.17	10.789	10.33	24	Pass
185	6875	-1.04	-0.29	1.7225	2.36	8.13	11.194	10.49	24	Pass
209	6995	-1.11	-0.07	1.7585	2.45	8.13	11.429	10.58	24	Pass
229	7095	-0.80	-0.17	1.7934	2.54	8.13	11.668	10.67	24	Pass
233	7115	-0.55	-0.78	1.7167	2.35	8.13	11.169	10.48	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
2	5935	-5.60	-5.39	0.5645	-2.48	8.15	3.69	5.67	24	Pass
1	5955	-1.24	0.10	1.7749	2.49	8.15	11.588	10.64	24	Pass
45	6175	-1.12	0.31	1.8467	2.66	8.15	12.05	10.81	24	Pass
93	6415	-1.08	-0.14	1.7481	2.43	8.15	11.429	10.58	24	Pass
97	6435	-1.75	0.16	1.7059	2.32	8.1	11.015	10.42	24	Pass
105	6475	-1.85	-0.58	1.5281	1.84	8.1	9.863	9.94	24	Pass
113	6515	-1.49	-0.28	1.6471	2.17	8.1	10.641	10.27	24	Pass
117	6535	-1.52	0.15	1.7398	2.4	8.17	11.402	10.57	24	Pass
149	6695	-0.95	-0.31	1.7346	2.39	8.17	11.376	10.56	24	Pass
181	6855	-1.65	-0.87	1.5024	1.77	8.17	9.863	9.94	24	Pass
185	6875	-0.65	-0.25	1.8051	2.57	8.13	11.749	10.70	24	Pass
209	6995	0.03	-0.25	1.951	2.9	8.13	12.677	11.03	24	Pass
229	7095	-0.41	0.02	1.9145	2.82	8.13	12.445	10.95	24	Pass
233	7115	-5.38	-5.16	0.5945	-2.26	8.13	3.864	5.87	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
3	5965	1.63	2.45	3.213	5.07	8.15	20.989	13.22	24	Pass
43	6165	1.65	3.02	3.467	5.40	8.15	22.646	13.55	24	Pass
91	6405	0.68	2.83	3.088	4.90	8.15	20.184	13.05	24	Pass
99	6445	1.38	2.71	3.24	5.11	8.1	20.941	13.21	24	Pass
107	6485	1.25	2.49	3.108	4.92	8.1	20.045	13.02	24	Pass
115	6525	0.70	3.06	3.198	5.05	8.17	20.989	13.22	24	Pass
123	6565	1.87	3.09	3.575	5.53	8.17	23.442	13.70	24	Pass
155	6725	1.55	3.12	3.48	5.42	8.17	22.856	13.59	24	Pass
179	6845	1.48	2.24	3.081	4.89	8.17	20.23	13.06	24	Pass
187	6885	1.51	2.30	3.114	4.93	8.13	20.23	13.06	24	Pass
211	7005	2.68	2.65	3.694	5.67	8.13	23.988	13.80	24	Pass
227	7085	2.82	2.64	3.751	5.74	8.13	24.378	13.87	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
7	5985	3.96	4.81	5.516	7.42	8.15	36.058	15.57	24	Pass
39	6145	3.90	5.57	6.06	7.82	8.15	39.537	15.97	24	Pass
87	6385	3.37	5.34	5.592	7.48	8.15	36.559	15.63	24	Pass
103	6465	3.80	5.26	5.756	7.6	8.1	37.154	15.70	24	Pass
119	6545	4.00	5.67	6.202	7.93	8.17	40.738	16.10	24	Pass
151	6705	4.23	5.77	6.424	8.08	8.17	42.17	16.25	24	Pass
183	6865	3.83	5.08	5.637	7.51	8.17	36.983	15.68	24	Pass
199	6945	4.50	5.07	6.032	7.8	8.13	39.174	15.93	24	Pass
215	7025	4.97	5.15	6.414	8.07	8.13	41.687	16.20	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
15	6025	6.71	7.89	10.84	10.35	8.15	70.795	18.50	24	Pass
47	6185	6.43	8.05	10.778	10.33	8.15	70.469	18.48	24	Pass
79	6345	7.16	8.38	12.086	10.82	8.15	78.886	18.97	24	Pass
111	6505	6.31	8.26	10.974	10.4	8.1	70.795	18.50	24	Pass
143	6665	6.27	8.51	11.332	10.54	8.17	74.302	18.71	24	Pass
175	6825	6.48	7.90	10.612	10.26	8.17	69.663	18.43	24	Pass
207	6985	7.10	8.06	11.526	10.62	8.13	74.989	18.75	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

20MHz Preamble
802.11ax (RU26)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
26/0	2	5935	-15.71	-15.60	0.0544	-12.64	8.15	0.356	-4.49	24	Pass
26/0	1	5955	-8.30	-7.47	0.327	-4.85	8.15	2.138	3.30	24	Pass
26/4	45	6175	-8.41	-7.25	0.3326	-4.78	8.15	2.173	3.37	24	Pass
26/8	93	6415	-8.93	-7.04	0.3256	-4.87	8.15	2.128	3.28	24	Pass
26/0	97	6435	-8.47	-7.42	0.3234	-4.9	8.1	2.089	3.20	24	Pass
26/4	105	6475	-8.31	-7.29	0.3342	-4.76	8.1	2.158	3.34	24	Pass
26/8	113	6515	-8.74	-7.02	0.3323	-4.78	8.1	2.148	3.32	24	Pass
26/0	117	6535	-8.28	-7.52	0.3256	-4.87	8.17	2.138	3.30	24	Pass
26/4	149	6695	-8.39	-7.25	0.3332	-4.77	8.17	2.188	3.40	24	Pass
26/8	181	6855	-8.80	-7.19	0.3228	-4.91	8.17	2.118	3.26	24	Pass
26/8	185	6875	-7.93	-7.96	0.321	-4.93	8.13	2.089	3.20	24	Pass
26/0	209	6995	-8.21	-7.38	0.3338	-4.77	8.13	2.168	3.36	24	Pass
26/4	229	7095	-8.50	-7.33	0.3262	-4.87	8.13	2.118	3.26	24	Pass
26/8	233	7115	-11.52	-11.09	0.14827	-8.29	8.13	0.964	-0.16	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi
 For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi
 For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi
 For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

802.11ax (RU52)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
52/37	2	5935	-13.85	-13.43	0.0866	-10.62	8.15	0.566	-2.47	24	Pass
52/37	1	5955	-4.63	-5.44	0.6301	-2.01	8.15	4.111	6.14	24	Pass
52/38	45	6175	-6.05	-4.30	0.6198	-2.08	8.15	4.046	6.07	24	Pass
52/40	93	6415	-6.16	-4.43	0.6027	-2.2	8.15	3.936	5.95	24	Pass
52/37	97	6435	-5.63	-4.66	0.6155	-2.11	8.1	3.972	5.99	24	Pass
52/38	105	6475	-5.66	-4.36	0.6381	-1.95	8.1	4.121	6.15	24	Pass
52/40	113	6515	-5.78	-4.40	0.6273	-2.03	8.1	4.046	6.07	24	Pass
52/37	117	6535	-5.45	-4.90	0.6087	-2.16	8.17	3.99	6.01	24	Pass
52/38	149	6695	-6.28	-4.39	0.5994	-2.22	8.17	3.936	5.95	24	Pass
52/40	181	6855	-6.27	-4.35	0.6033	-2.19	8.17	3.963	5.98	24	Pass
52/40	185	6875	-5.41	-4.95	0.6076	-2.16	8.13	3.954	5.97	24	Pass
52/37	209	6995	-5.54	-4.58	0.6276	-2.02	8.13	4.083	6.11	24	Pass
52/38	229	7095	-5.73	-4.40	0.6304	-2	8.13	4.102	6.13	24	Pass
52/40	233	7115	-9.46	-9.40	0.2281	-6.42	8.13	1.483	1.71	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

802.11ax (RU106)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
106/53	2	5935	-12.88	-12.49	0.10789	-9.67	8.15	0.705	-1.52	24	Pass
106/53	1	5955	-1.03	-3.84	1.2019	0.8	8.15	7.852	8.95	24	Pass
106/53	45	6175	-2.42	-2.06	1.1951	0.77	8.15	7.798	8.92	24	Pass
106/54	93	6415	-2.58	-1.63	1.2391	0.93	8.15	8.091	9.08	24	Pass
106/53	97	6435	-2.60	-1.61	1.2398	0.93	8.1	7.998	9.03	24	Pass
106/53	105	6475	-2.01	-2.00	1.2605	1.01	8.1	8.147	9.11	24	Pass
106/54	113	6515	-2.06	-1.79	1.2845	1.09	8.1	8.299	9.19	24	Pass
106/53	117	6535	-2.48	-1.48	1.2762	1.06	8.17	8.375	9.23	24	Pass
106/54	149	6695	-2.20	-2.09	1.2206	0.87	8.17	8.017	9.04	24	Pass
106/54	181	6855	-1.98	-1.74	1.3038	1.15	8.17	8.551	9.32	24	Pass
106/54	185	6875	-2.13	-1.86	1.264	1.02	8.13	8.222	9.15	24	Pass
106/53	209	6995	-2.40	-1.84	1.2301	0.9	8.13	7.998	9.03	24	Pass
106/54	229	7095	-2.48	-1.56	1.2632	1.01	8.13	8.204	9.14	24	Pass
106/54	233	7115	-8.36	-8.26	0.2952	-5.3	8.13	1.919	2.83	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

802.11ax (RU242)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
242/61	2	5935	-10.13	-9.45	0.21055	-6.77	8.15	1.374	1.38	24	Pass
242/61	1	5955	0.36	1.95	2.653	4.24	8.15	17.338	12.39	24	Pass
242/61	45	6175	0.08	1.80	2.532	4.03	8.15	16.52	12.18	24	Pass
242/61	93	6415	0.45	1.91	2.662	4.25	8.15	17.378	12.40	24	Pass
242/61	97	6435	0.65	1.76	2.661	4.25	8.1	17.179	12.35	24	Pass
242/61	105	6475	0.45	1.33	2.467	3.92	8.1	15.922	12.02	24	Pass
242/61	113	6515	0.68	1.50	2.582	4.12	8.1	16.672	12.22	24	Pass
242/61	117	6535	0.39	1.54	2.52	4.01	8.17	16.52	12.18	24	Pass
242/61	149	6695	1.07	1.36	2.647	4.23	8.17	17.378	12.40	24	Pass
242/61	181	6855	1.08	1.31	2.634	4.21	8.17	17.298	12.38	24	Pass
242/61	185	6875	1.11	1.35	2.656	4.24	8.13	17.258	12.37	24	Pass
242/61	209	6995	0.90	1.24	2.561	4.08	8.13	16.634	12.21	24	Pass
242/61	229	7095	0.71	1.68	2.65	4.23	8.13	17.219	12.36	24	Pass
242/61	233	7115	-6.28	-6.39	0.4651	-3.32	8.13	3.027	4.81	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

40MHz Preamble

802.11ax (RU26)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
26/9	3	5965	-8.69	-7.56	0.3106	-5.08	8.15	2.028	3.07	24	Pass
26/27	43	6165	-9.04	-7.39	0.3071	-5.13	8.15	2.004	3.02	24	Pass
26/27	91	6405	-9.17	-7.05	0.3183	-4.97	8.15	2.08	3.18	24	Pass
26/9	99	6445	-8.51	-7.73	0.3096	-5.09	8.1	2	3.01	24	Pass
26/27	107	6485	-8.70	-7.12	0.329	-4.83	8.1	2.123	3.27	24	Pass
26/27	115	6525	-8.32	-7.89	0.3098	-5.09	8.17	2.032	3.08	24	Pass
26/9	123	6565	-9.18	-7.29	0.3074	-5.12	8.17	2.018	3.05	24	Pass
26/9	155	6725	-8.81	-6.93	0.3343	-4.76	8.17	2.193	3.41	24	Pass
26/27	179	6845	-8.28	-8.02	0.3064	-5.14	8.17	2.009	3.03	24	Pass
26/9	187	6885	-8.98	-7.14	0.3197	-4.95	8.13	2.08	3.18	24	Pass
26/9	211	7005	-8.23	-7.73	0.319	-4.96	8.13	2.075	3.17	24	Pass
26/27	219	7045	-8.66	-7.12	0.3302	-4.81	8.13	2.148	3.32	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

802.11ax (RU52)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
52/41	3	5965	-5.49	-4.54	0.634	-1.98	8.15	4.14	6.17	24	Pass
52/48	43	6165	-5.88	-4.39	0.6221	-2.06	8.15	4.064	6.09	24	Pass
52/48	91	6405	-6.02	-4.21	0.6293	-2.01	8.15	4.111	6.14	24	Pass
52/41	99	6445	-5.56	-4.63	0.6223	-2.06	8.1	4.018	6.04	24	Pass
52/41	107	6485	-5.82	-4.25	0.6377	-1.95	8.1	4.121	6.15	24	Pass
52/48	115	6525	-5.08	-4.52	0.6636	-1.78	8.17	4.355	6.39	24	Pass
52/41	123	6565	-6.10	-4.40	0.6085	-2.16	8.17	3.99	6.01	24	Pass
52/41	155	6725	-5.87	-3.89	0.6671	-1.76	8.17	4.375	6.41	24	Pass
52/48	179	6845	-5.16	-4.84	0.6329	-1.99	8.17	4.15	6.18	24	Pass
52/41	187	6885	-6.15	-4.46	0.6008	-2.21	8.13	3.908	5.92	24	Pass
52/41	211	7005	-5.43	-4.89	0.6108	-2.14	8.13	3.972	5.99	24	Pass
52/48	219	7045	-5.85	-4.16	0.6437	-1.91	8.13	4.188	6.22	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

802.11ax (RU106)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
106/55	3	5965	-2.56	-1.95	1.1929	0.77	8.15	7.798	8.92	24	Pass
106/58	43	6165	-2.52	-1.94	1.1995	0.79	8.15	7.834	8.94	24	Pass
106/58	91	6405	-2.58	-1.26	1.3002	1.14	8.15	8.492	9.29	24	Pass
106/55	99	6445	-2.57	-1.56	1.2516	0.97	8.1	8.072	9.07	24	Pass
106/58	107	6485	-2.38	-1.27	1.3245	1.22	8.1	8.551	9.32	24	Pass
106/58	115	6525	-2.57	-1.40	1.2778	1.06	8.17	8.375	9.23	24	Pass
106/55	123	6565	-2.59	-1.18	1.3129	1.18	8.17	8.61	9.35	24	Pass
106/55	155	6725	-2.58	-1.93	1.1933	0.77	8.17	7.834	8.94	24	Pass
106/58	179	6845	-2.15	-1.93	1.2507	0.97	8.17	8.204	9.14	24	Pass
106/55	187	6885	-2.02	-1.66	1.3104	1.17	8.13	8.511	9.30	24	Pass
106/55	211	7005	-2.19	-1.91	1.2481	0.96	8.13	8.11	9.09	24	Pass
106/58	219	7045	-2.36	-1.59	1.2742	1.05	8.13	8.279	9.18	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

802.11ax (RU242)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
242/63	3	5965	0.50	1.88	2.664	4.26	8.15	17.418	12.41	24	Pass
242/62	43	6165	0.13	1.60	2.476	3.94	8.15	16.181	12.09	24	Pass
242/62	91	6405	0.37	1.80	2.602	4.15	8.15	16.982	12.30	24	Pass
242/63	99	6445	0.69	1.16	2.478	3.94	8.1	15.996	12.04	24	Pass
242/62	107	6485	0.84	0.98	2.467	3.92	8.1	15.922	12.02	24	Pass
242/62	115	6525	0.46	1.86	2.646	4.23	8.17	17.378	12.40	24	Pass
242/63	123	6565	0.16	1.73	2.527	4.03	8.17	16.596	12.20	24	Pass
242/63	155	6725	0.86	1.57	2.654	4.24	8.17	17.418	12.41	24	Pass
242/62	179	6845	1.00	1.42	2.646	4.23	8.17	17.378	12.40	24	Pass
242/63	187	6885	0.96	1.34	2.609	4.16	8.13	16.943	12.29	24	Pass
242/63	211	7005	0.62	1.65	2.616	4.18	8.13	17.022	12.31	24	Pass
242/62	219	7045	1.03	1.40	2.648	4.23	8.13	17.219	12.36	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

802.11ax (RU484)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
484/65	3	5965	3.13	4.64	4.967	6.96	8.15	32.434	15.11	24	Pass
484/65	43	6165	3.06	4.80	5.043	7.03	8.15	32.961	15.18	24	Pass
484/65	91	6405	3.34	4.96	5.291	7.24	8.15	34.594	15.39	24	Pass
484/65	99	6445	3.57	4.59	5.152	7.12	8.1	33.266	15.22	24	Pass
484/65	107	6485	3.66	4.74	5.301	7.24	8.1	34.198	15.34	24	Pass
484/65	115	6525	3.56	4.67	5.201	7.16	8.17	34.119	15.33	24	Pass
484/65	123	6565	3.48	4.68	5.166	7.13	8.17	33.884	15.30	24	Pass
484/65	155	6725	3.56	4.82	5.304	7.25	8.17	34.834	15.42	24	Pass
484/65	179	6845	4.03	4.42	5.296	7.24	8.17	34.754	15.41	24	Pass
484/65	187	6885	4.00	4.43	5.285	7.23	8.13	34.356	15.36	24	Pass
484/65	211	7005	3.92	4.48	5.271	7.22	8.13	34.277	15.35	24	Pass
484/65	227	7085	3.98	4.46	5.293	7.24	8.13	34.435	15.37	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

80MHz Preamble

802.11ax (RU996)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
996/67	7	5985	6.38	7.43	9.879	9.95	5.14	32.285	15.09	24	Pass
996/67	39	6145	6.27	7.69	10.111	10.05	5.14	33.037	15.19	24	Pass
996/67	87	6385	6.11	8.02	10.422	10.18	5.14	34.041	15.32	24	Pass
996/67	103	6465	6.53	7.82	10.551	10.23	5.09	34.041	15.32	24	Pass
996/67	119	6545	6.16	8.06	10.528	10.22	5.16	34.514	15.38	24	Pass
996/67	135	6625	6.43	7.91	10.576	10.24	5.16	34.674	15.40	24	Pass
996/67	151	6705	6.58	7.79	10.562	10.24	5.16	34.674	15.40	24	Pass
996/67	167	6785	6.65	7.71	10.526	10.22	5.12	34.198	15.34	24	Pass
996/67	183	6865	6.67	7.65	10.466	10.2	5.12	34.041	15.32	24	Pass
996/67	199	6945	6.38	7.43	9.879	9.95	5.14	32.285	15.09	24	Pass
996/67	215	7025	6.27	7.69	10.111	10.05	5.14	33.037	15.19	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

160MHz Preamble

802.11ax (RU1992)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
1992/68	15	6025	9.33	10.14	18.898	12.76	8.15	123.31	20.91	24	Pass
1992/68	47	6185	9.08	10.48	19.26	12.85	8.15	125.893	21.00	24	Pass
1992/68	79	6345	9.25	10.62	19.948	13	8.15	130.317	21.15	24	Pass
1992/68	111	6505	9.40	10.93	21.098	13.24	8.1	136.144	21.34	24	Pass
1992/68	143	6665	8.79	10.63	19.129	12.82	8.17	125.603	20.99	24	Pass
1992/68	175	6825	9.10	10.33	18.918	12.77	8.17	124.165	20.94	24	Pass
1992/68	207	6985	9.30	10.16	18.887	12.76	8.13	122.744	20.89	24	Pass

Note: 1. For U-NII-5: Directional gain = 5.14dBi + 10log(2) = 8.15dBi

For U-NII-6: Directional gain = 5.09dBi + 10log(2) = 8.10dBi

For U-NII-7: Directional gain = 5.16dBi + 10log(2) = 8.17dBi

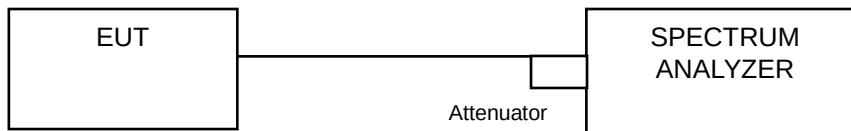
For U-NII-8: Directional gain = 5.12dBi + 10log(2) = 8.13dBi

4.5 Emission Bandwidth Measurement

4.5.1 Limits of Emission Bandwidth Measurement

The fundamental bandwidth shall be less than 320MHz.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

FOR 99% OCCUPIED BANDWIDTH

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

FOR 26dB BANDWIDTH

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.5.5 Test Results (Mode 1)

99% Occupied Bandwidth:

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Limit (MHz)
2	5935	16.35	16.34	320
1	5955	16.44	16.44	320
45	6175	16.44	16.44	320
93	6415	16.32	16.44	320
117	6535	16.32	16.44	320
149	6695	16.32	16.44	320
181	6855	16.44	16.44	320

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Limit (MHz)
2	5935	18.87	18.87	320
1	5955	18.87	18.87	320
45	6175	18.84	18.84	320
93	6415	18.84	18.84	320
117	6535	18.84	18.84	320
149	6695	18.84	18.84	320
181	6855	18.84	18.84	320

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Limit (MHz)
3	5965	37.68	37.68	320
43	6165	37.68	37.68	320
91	6405	37.68	37.68	320
123	6565	37.68	38.6	320
155	6725	37.92	37.68	320
179	6845	37.68	37.92	320

802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Limit (MHz)
7	5985	77.28	77.28	320
39	6145	77.28	77.28	320
87	6385	76.8	77.28	320
135	6625	76.32	77.28	320
151	6705	76.8	77.28	320
167	6785	77.28	77.22	320

802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Limit (MHz)
15	6025	155.52	156.48	320
47	6185	155.52	156.48	320
79	6345	155.52	155.52	320
143	6665	155.52	155.52	320

20MHz Preamble

802.11ax (RU26)

RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
26/0	2	5935	18.87	18.78	320
26/0	1	5955	18.87	18.69	320
26/4	45	6175	17.4	17.16	320
26/8	93	6415	18.72	18.6	320
26/0	117	6535	18.96	18.84	320
26/4	149	6695	17.28	17.16	320
26/8	181	6855	18.72	18.48	320

802.11ax (RU52)

RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
52/37	2	5935	18.43	18.52	320
52/37	1	5955	18.61	18.52	320
52/38	45	6175	17.4	17.16	320
52/40	93	6415	18.48	18.24	320
52/37	117	6535	18.48	18.48	320
52/38	149	6695	17.28	17.16	320
52/40	181	6855	18.36	18.36	320

802.11ax (RU106)

RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
106/53	2	5935	18.44	18.35	320
106/53	1	5955	18.61	18.53	320
106/53	45	6175	18.6	18.48	320
106/54	93	6415	18.72	18.6	320
106/53	117	6535	18.48	18.48	320
106/54	149	6695	18.48	18.72	320
106/54	181	6855	18.48	18.35	320

802.11ax (RU242)

RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
242/61	2	5935	19.22	19.14	320
242/61	1	5955	19.31	19.92	320
242/61	45	6175	19.32	19.56	320
242/61	93	6415	19.44	20.04	320
242/61	117	6535	19.44	19.56	320
242/61	149	6695	19.44	20.16	320
242/61	181	6855	19.44	19.56	320

40MHz Preamble

802.11ax (RU26)

RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
26/9	3	5965	37.04	36.87	320
26/27	43	6165	36.72	36.48	320
26/27	91	6405	36.48	36.48	320
26/9	123	6565	36.72	36.48	320
26/9	155	6725	36.72	35.76	320
26/27	179	6845	36.72	36.24	320

802.11ax (RU52)

RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
52/41	3	5965	36.87	36.87	320
52/48	43	6165	36.24	36.24	320
52/48	91	6405	36.72	36	320
52/41	123	6565	36.48	36.48	320
52/41	155	6725	36	36.48	320
52/48	179	6845	36	36.72	320

802.11ax (RU106)

RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
106/55	3	5965	37.04	36.7	320
106/58	43	6165	36.72	36.96	320
106/58	91	6405	36.72	36.72	320
106/55	123	6565	36.96	36.48	320
106/55	155	6725	36.72	36.96	320
106/58	179	6845	36.96	37.2	320

802.11ax (RU242)

RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
242/63	3	5965	38.61	40.52	320
242/62	43	6165	38.4	38.88	320
242/62	91	6405	38.88	38.64	320
242/63	123	6565	38.4	38.88	320
242/63	155	6725	39.12	38.4	320
242/62	179	6845	38.88	38.64	320

802.11ax (RU484)

RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
484/65	3	5965	39.83	40.18	320
484/65	43	6165	39.6	45.36	320
484/65	91	6405	40.8	46.8	320
484/65	123	6565	39.6	42.72	320
484/65	155	6725	39.12	39.12	320
484/65	179	6845	39.6	39.12	320

80MHz Preamble

802.11ax (RU996)

RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
996/67	7	5985	79.3	79.65	320
996/67	39	6145	78.24	79.68	320
996/67	87	6385	78.24	97.74	320
996/67	135	6625	78.24	83.04	320
996/67	151	6705	78.72	78.72	320
996/67	167	6785	78.72	78.72	320

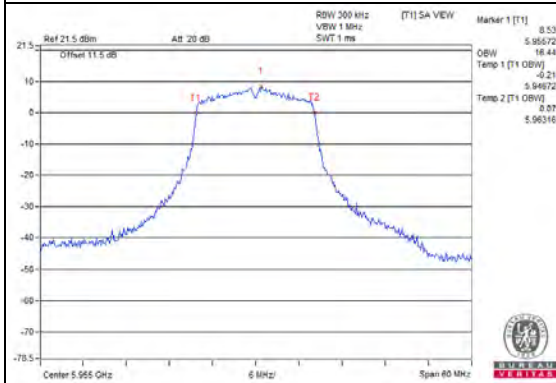
160MHz Preamble

802.11ax (RU1992)

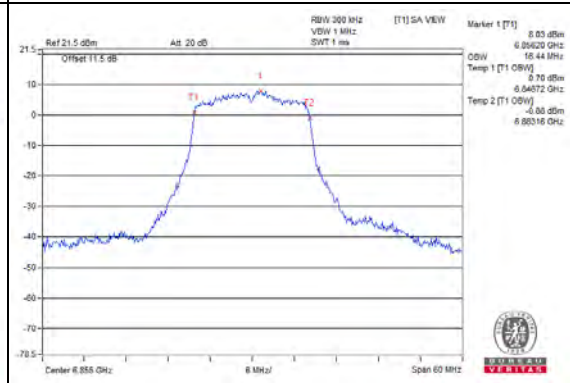
RU Configuration	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
1992/68	15	6025	158.61	177.39	320
1992/68	47	6185	159.36	173.76	320
1992/68	79	6345	157.91	170.88	320
1992/68	143	6665	158.4	160.32	320

Spectrum Plot of Max. Value

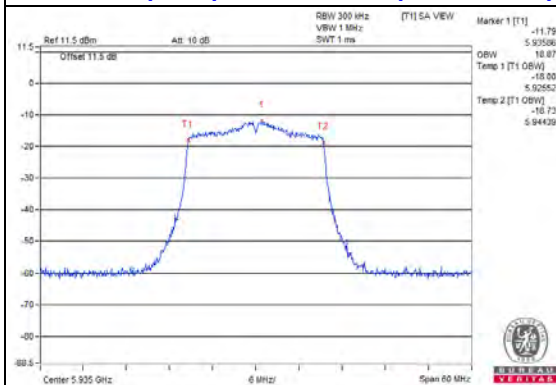
802.11a_Chain 0 / CH1 (U-NII-5 Band)



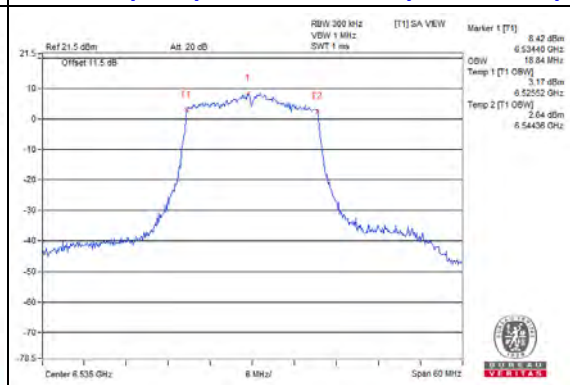
802.11a_Chain 0 / CH181 (U-NII-7 Band)



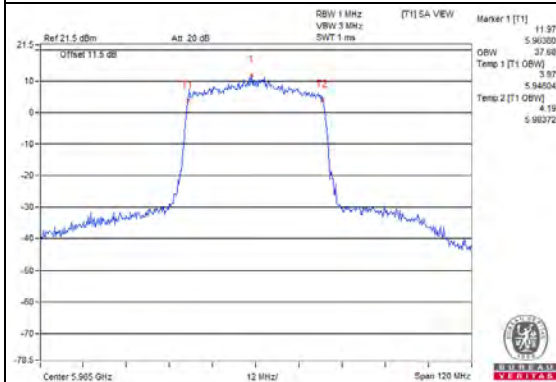
802.11ax (HE20)_Chain 0 / CH2 (U-NII-5 Band)



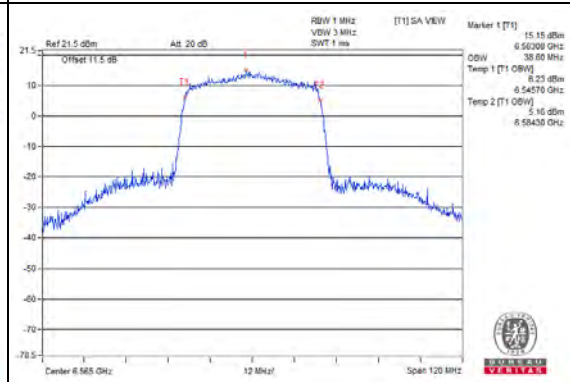
802.11ax (HE20)_Chain 0 / CH117 (U-NII-7 Band)



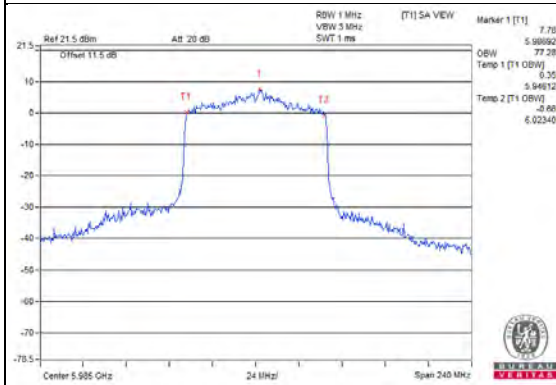
802.11ax (HE40)_Chain 0 / CH3 (U-NII-5 Band)



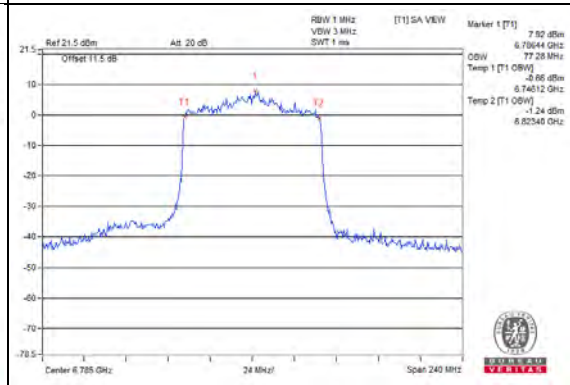
802.11ax (HE40)_Chain 1 / CH123 (U-NII-7 Band)

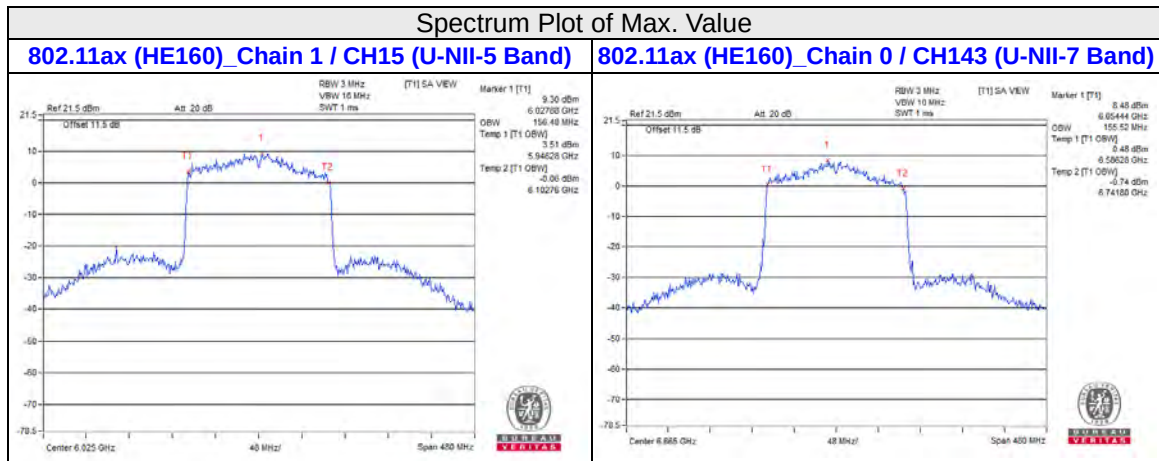


802.11ax (HE80)_Chain 0 / CH7 (U-NII-5 Band)



802.11ax (HE80)_Chain 0 / CH167 (U-NII-7 Band)





20MHz Preamble

