

4.1.8 Test Results (Conducted Measurement)

Radiated versus Conducted Measurement	
☒ Conducted measurement	☐ Radiated measurement
<u>For Radiated measurement:</u> The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation) <u>For Conducted measurement:</u> The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).	

Conducted Emission Convert Formula
a. $\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$ $d = \text{measurement distance in 3 meters.}$ b. $\text{EIRP Level (dBm)} = \text{Raw Value(dBm)} + \text{Correction Factor(dB)}$ c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands. For the band edge the gain for the specific band may have been used. Notes: 1. In restricted bands below 1000 MHz, add upper bound on ground plane reflection: For $f = 30 - 1000 \text{ MHz}$, add 4.7 dB. 2. The conducted emission test was considered some factor to compute test result.

Above 1GHz Data
802.11a - Channel 36

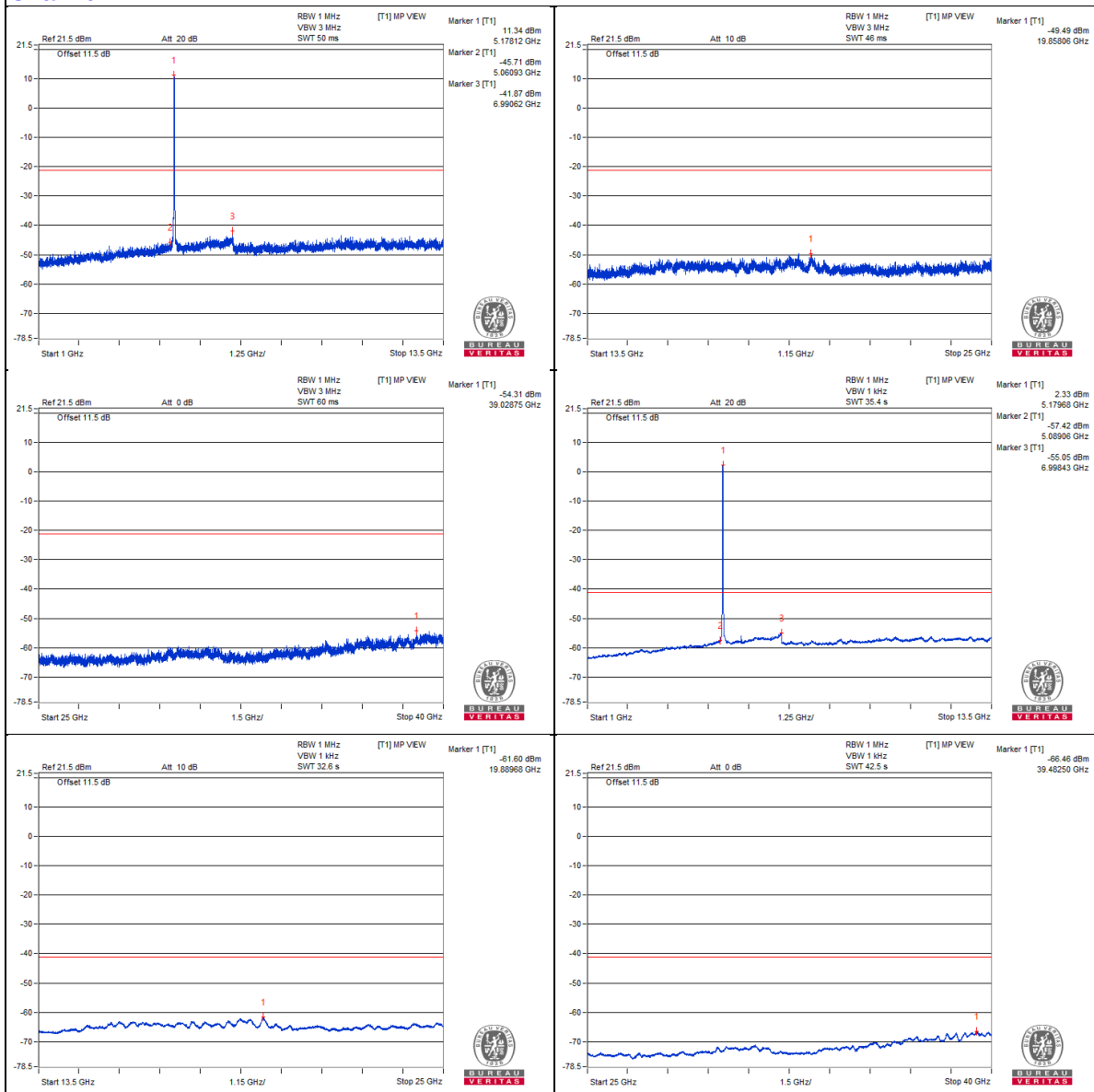
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	#3456.25	57.57 PK	68.2	-10.63	-49.49	-48.32	8.17	-37.69
2	#6915.62	61.95 PK	68.2	-6.25	-44.68	-44.3	8.17	-33.31
3	#10357.81	62.47 PK	68.2	-5.73	-43.52	-44.48	8.17	-32.79
4	15545.56	54.36 PK	74	-19.64	-51.85	-52.32	8.17	-40.90
5	15541.25	42.86 AV	54	-11.14	-63.47	-63.69	8.17	-52.40

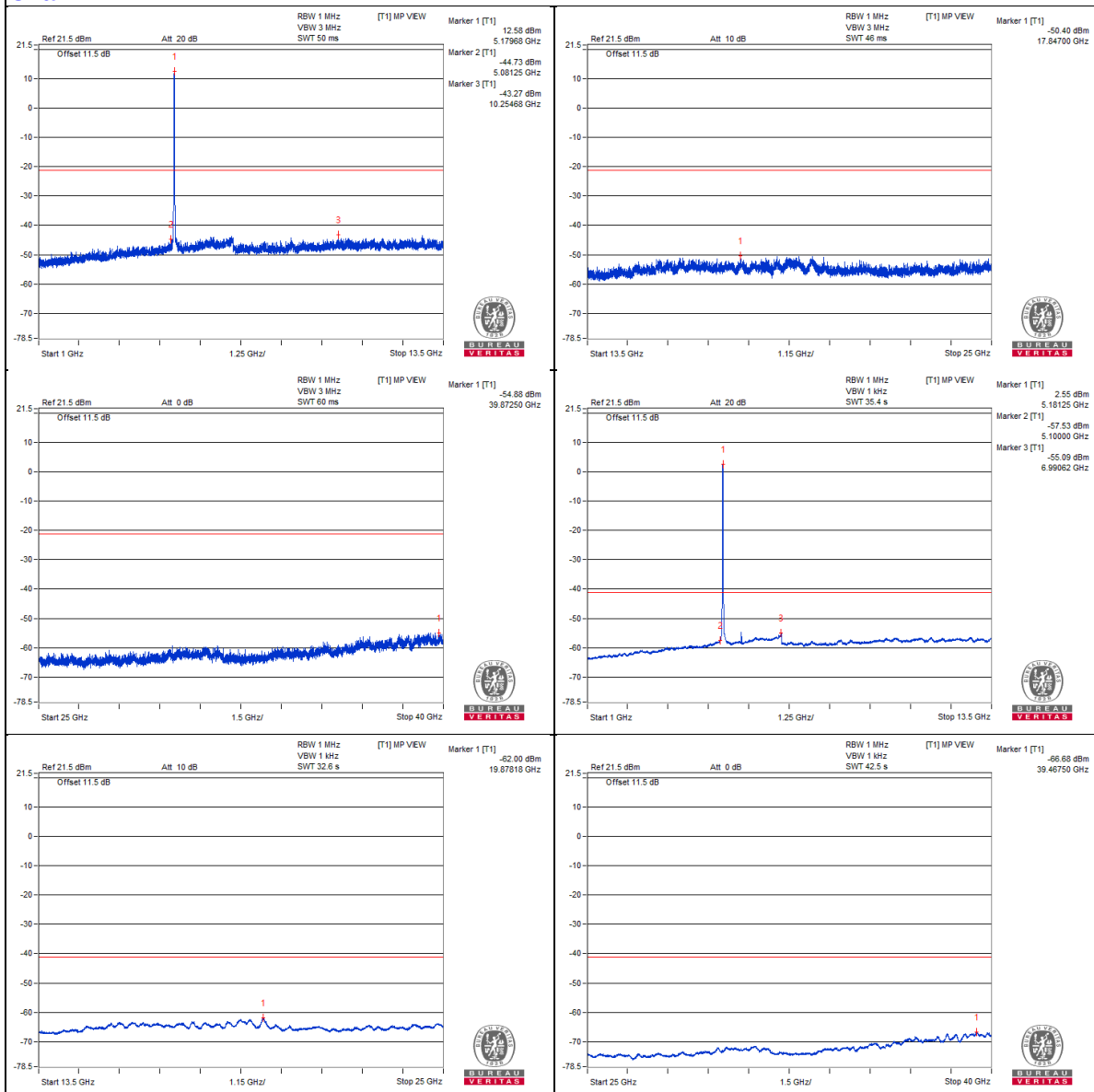
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0



Chain 1



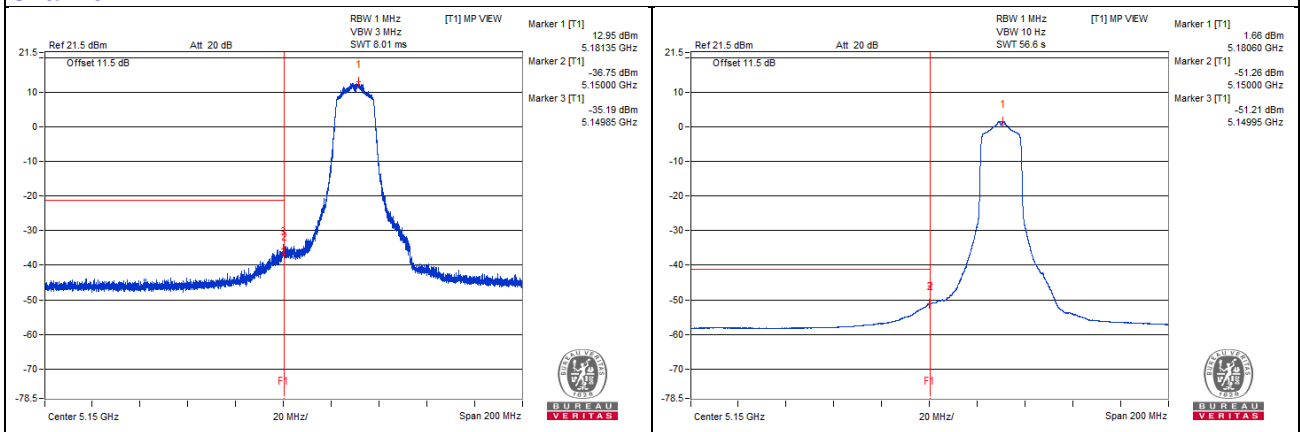
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5148.8	69.88 PK	74	-4.12	-35.99	-33.79	6.36	-25.38
2	5149.75	54.1 AV	54	! 0.1	-51.23	-49.93	6.36	-41.16

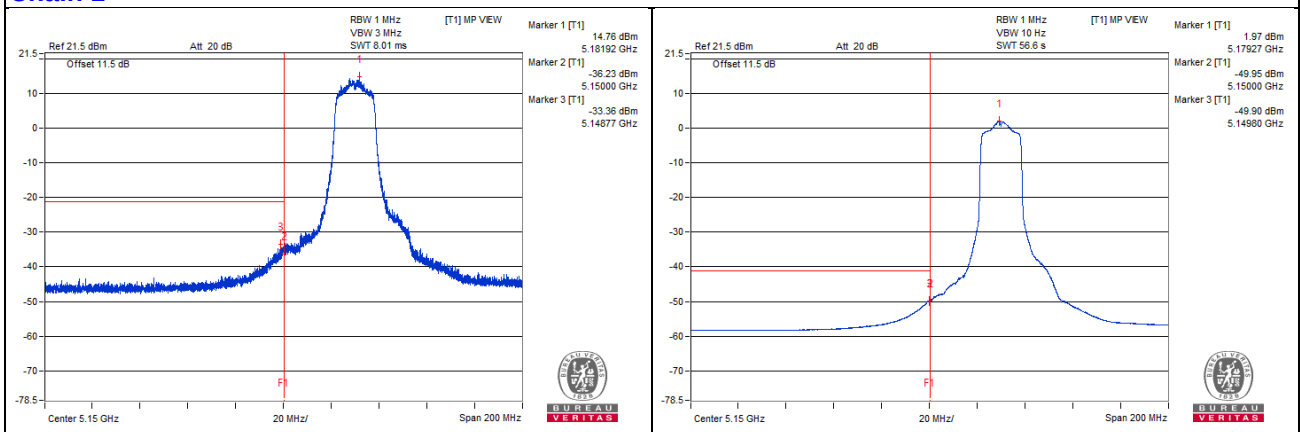
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " ! " : The unwanted emission was verified and the test result was passed by radiated measurement.
(Please refer Appendix B)

Chain 0



Chain 1



802.11a - Channel 40

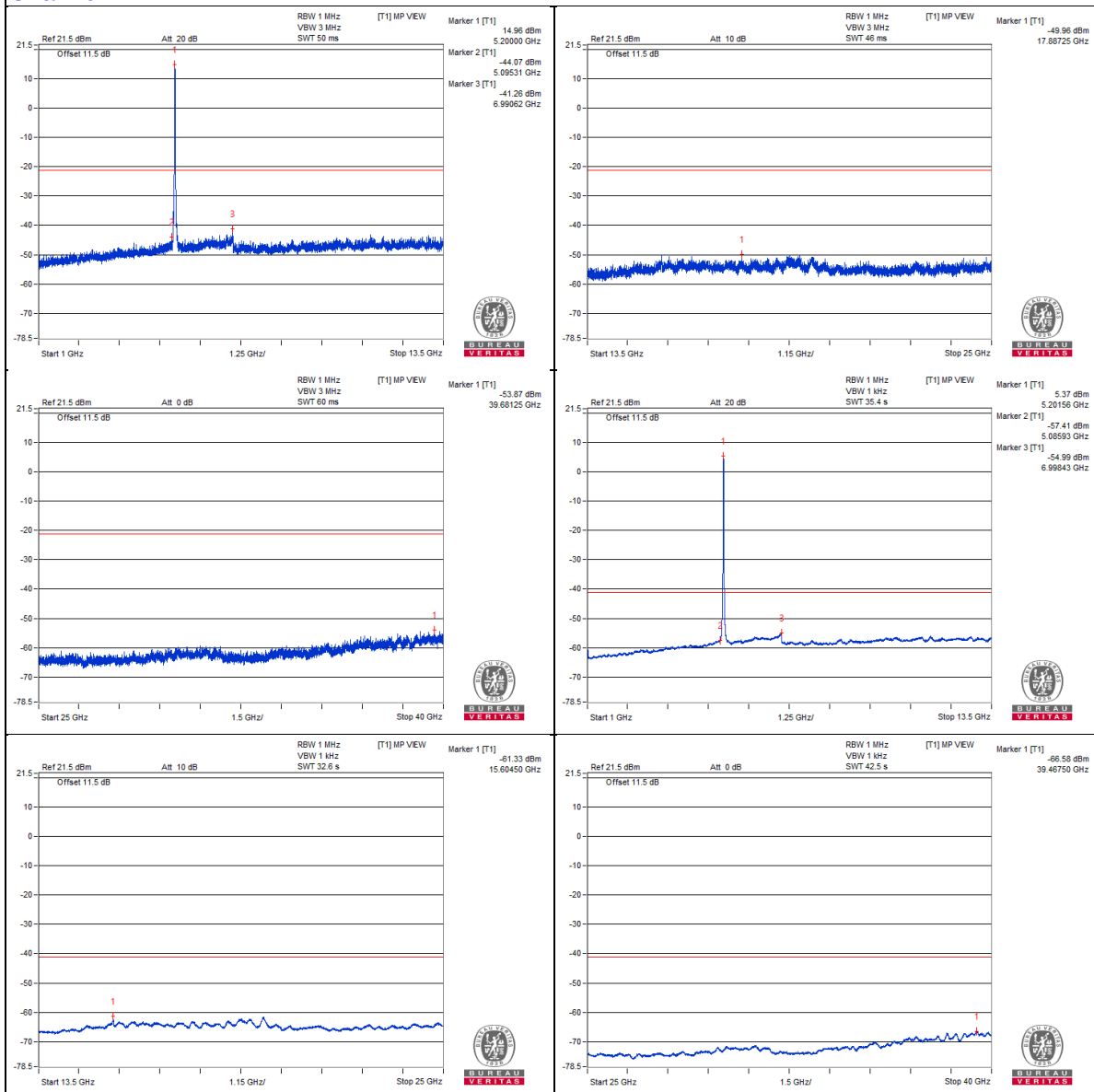
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	#3450	58.11 PK	68.2	-10.09	-47.64	-49.15	8.17	-37.15
2	#6939.06	61.87 PK	68.2	-6.33	-43.38	-46.23	8.17	-33.39
3	#10393.75	60.69 PK	68.2	-7.51	-46.51	-45.1	8.17	-34.57
4	15600.18	55.93 PK	74	-18.07	-50.13	-50.92	8.17	-39.33
5	15600.18	44.9 AV	54	-9.1	-61.4	-61.68	8.17	-50.36

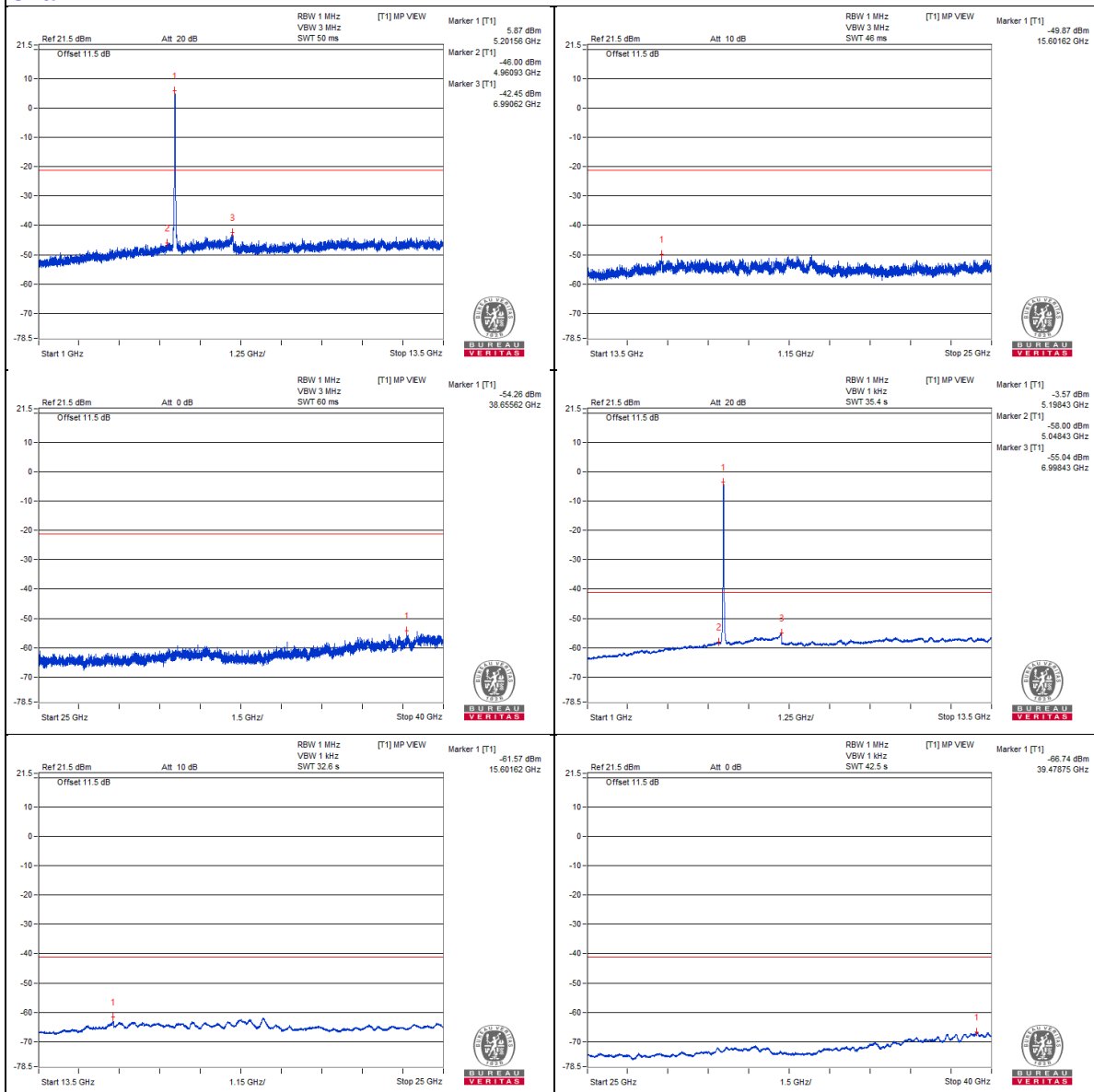
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0



Chain 1



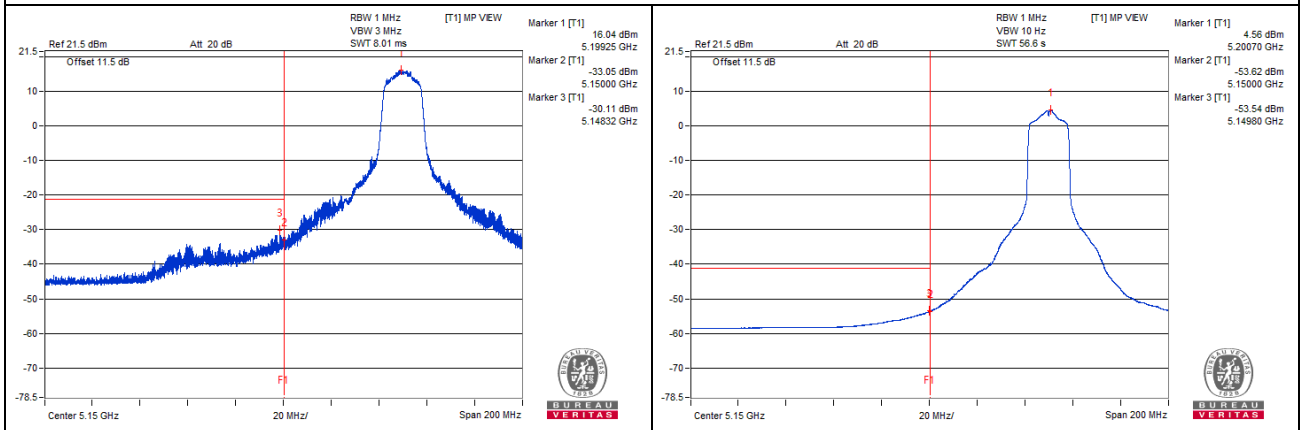
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5148.32	72.21 PK	74	-1.79	-30.11	-37.7	6.36	-23.05
2	5149.8	52.34 AV	54	-1.66	-53.54	-51.32	6.36	-42.92

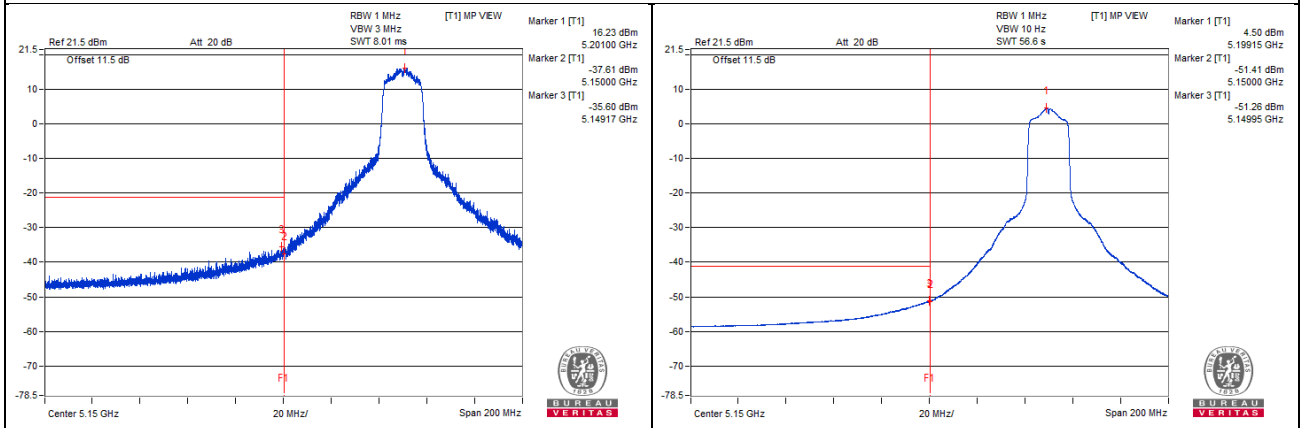
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Chain 0



Chain 1



802.11a - Channel 48

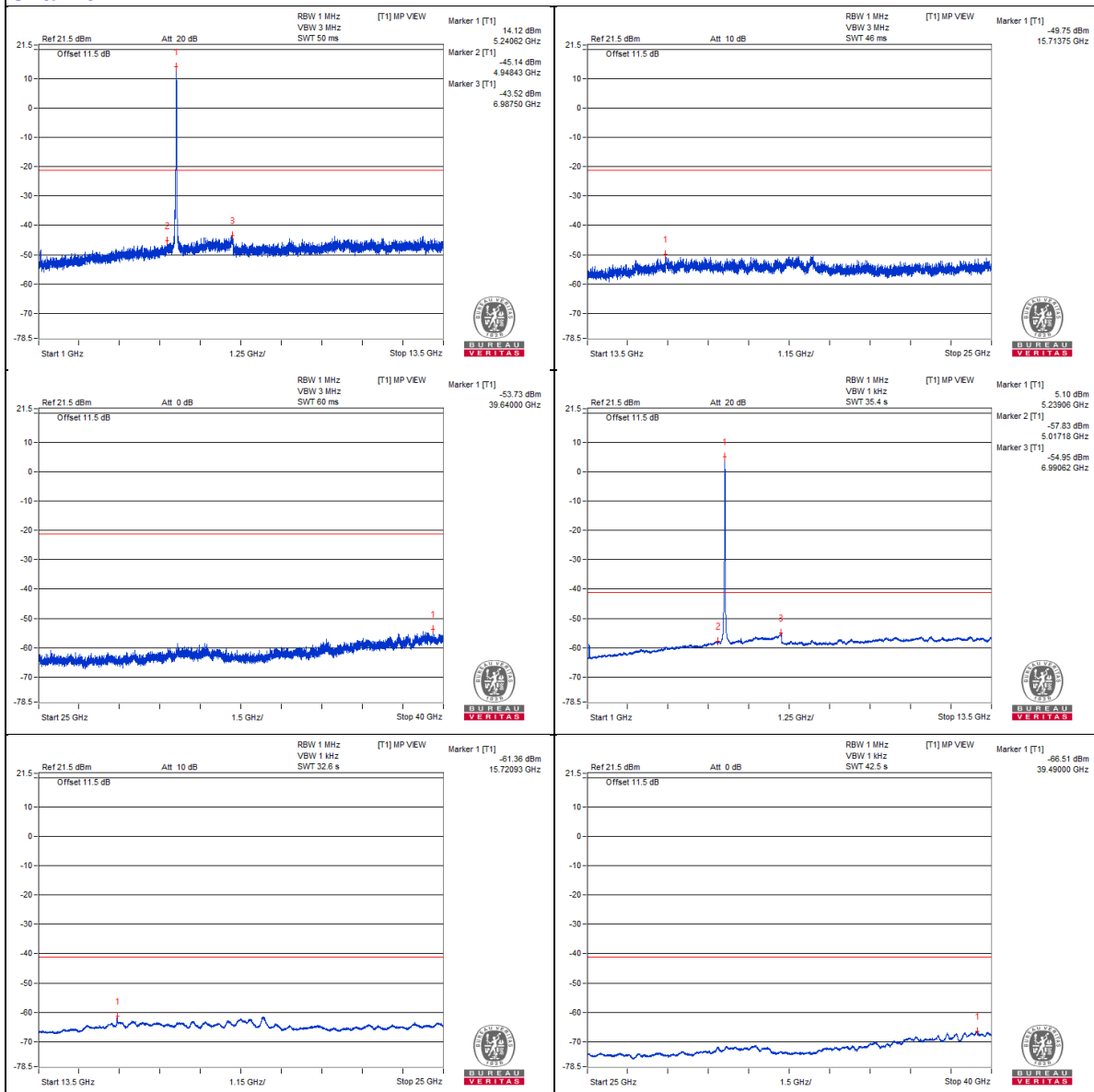
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3503.12	57.25 PK	74	-16.75	-49.17	-49.22	8.17	-38.01
2	3501.25	46.12 AV	54	-7.88	-60.15	-60.5	8.17	-49.14
3	#6967.18	62.34 PK	68.2	-5.86	-43.88	-44.33	8.17	-32.92
4	#10487.5	60.38 PK	68.2	-7.82	-46.48	-45.67	8.17	-34.88
5	15720.93	56.59 PK	74	-17.41	-50.87	-49.02	8.17	-38.67
6	15720.93	45.52 AV	54	-8.48	-61.36	-60.52	8.17	-49.74

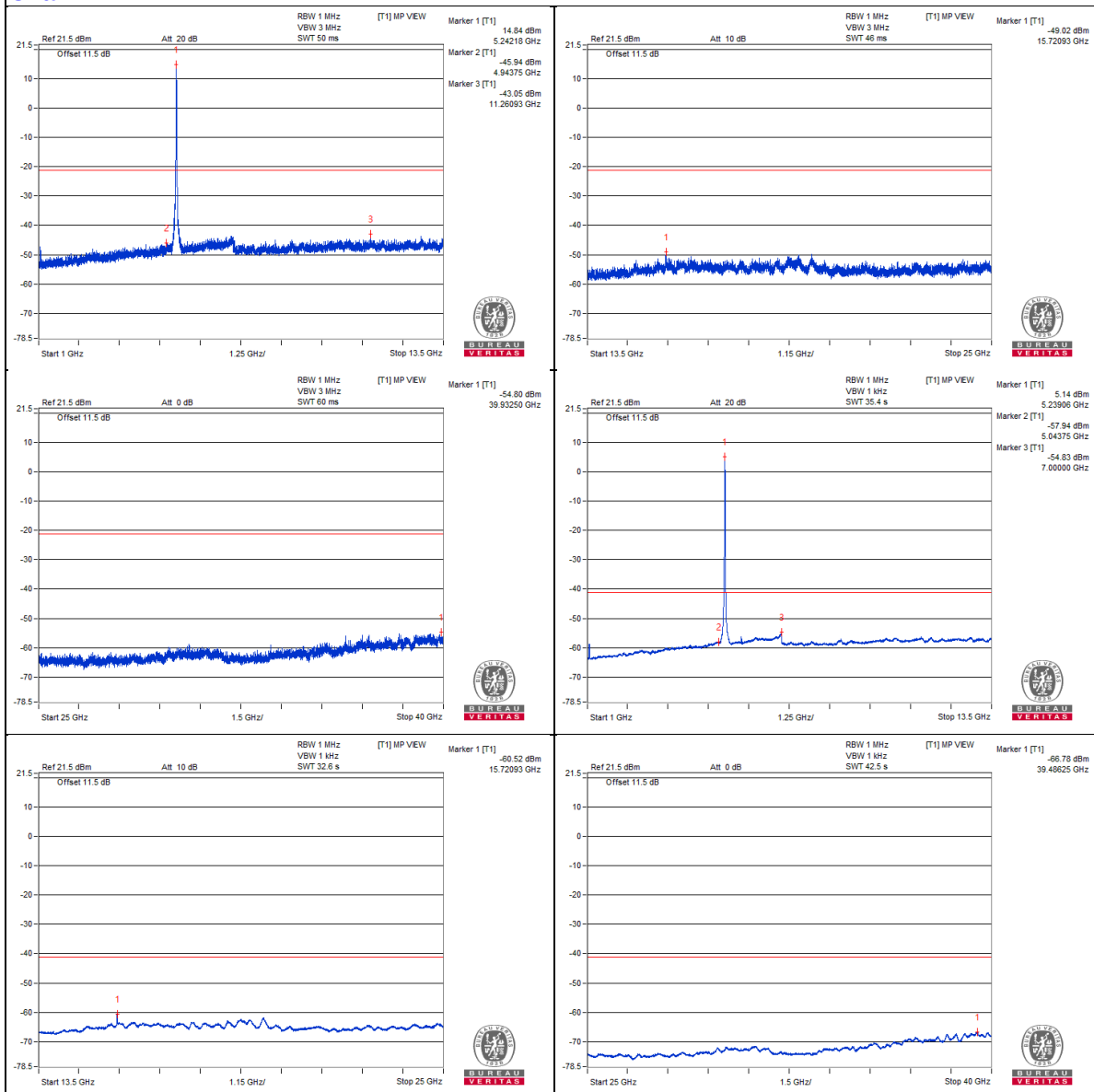
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0



Chain 1



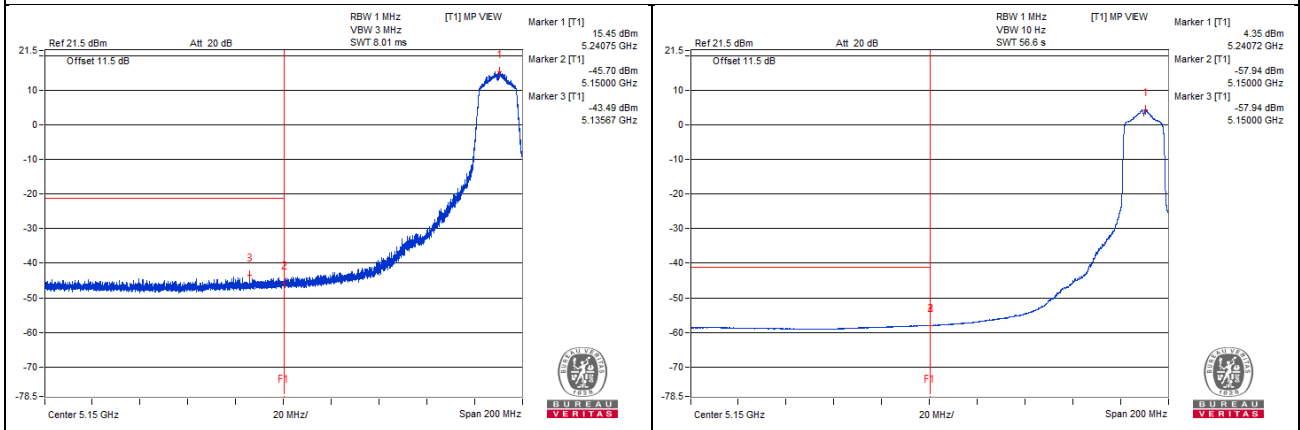
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5145.8	61.92 PK	74	-12.08	-46	-40.86	6.36	-33.34
2	5149.77	47.43 AV	54	-6.57	-58	-56.53	6.36	-47.83

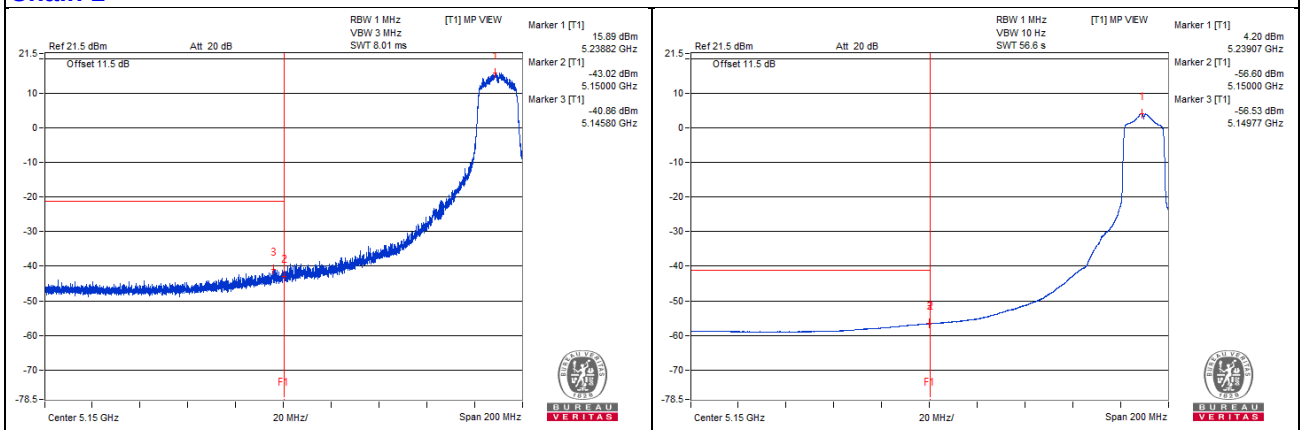
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Chain 0



Chain 1



802.11a - Channel 52

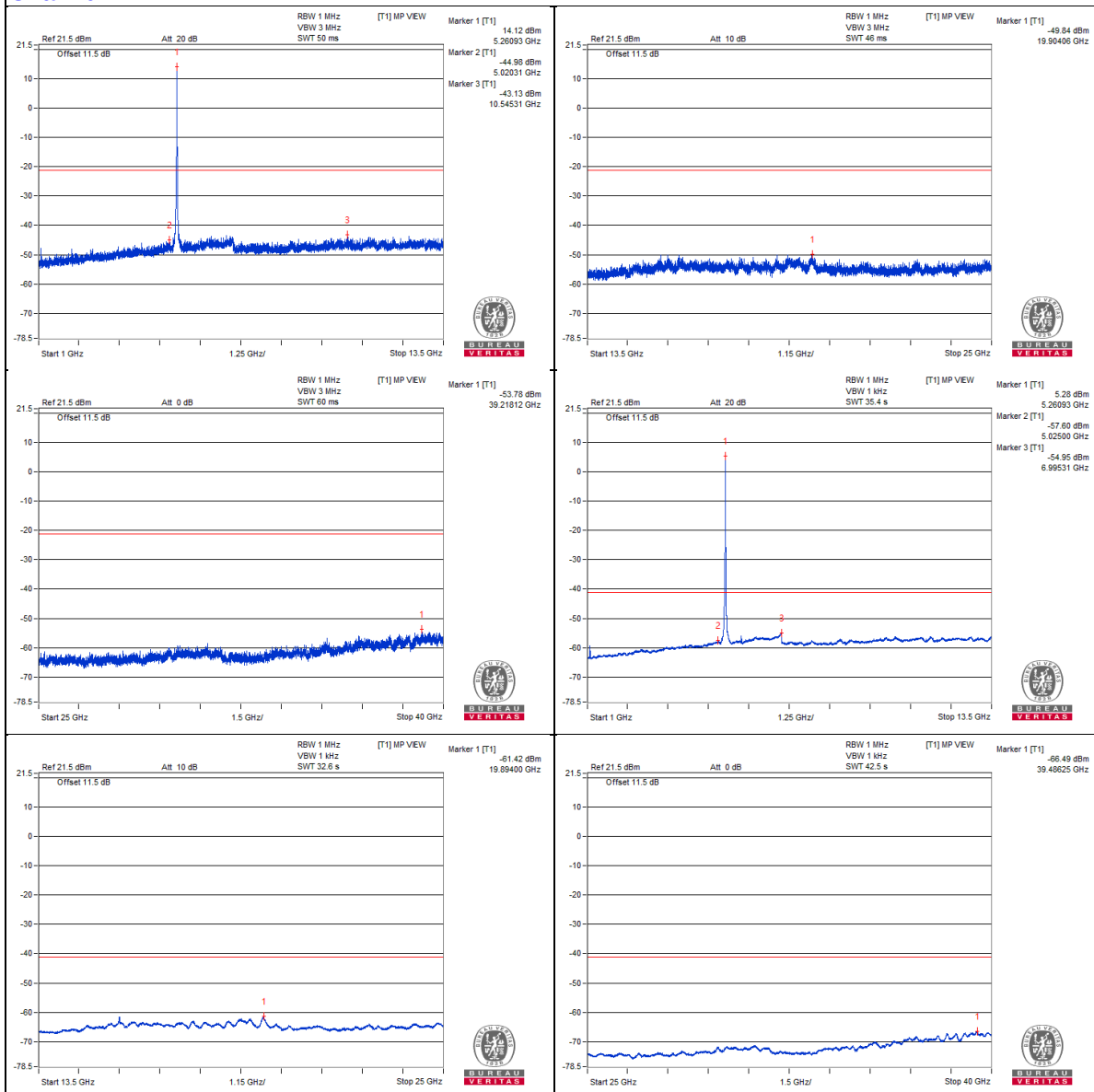
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	#3493.75	57.03 PK	68.2	-11.17	-49.27	-49.56	8.17	-38.23
2	#6993.75	62.72 PK	68.2	-5.48	-44.44	-43.1	8.17	-32.54
3	#10537.5	61.24 PK	68.2	-6.96	-46.07	-44.48	8.17	-34.02
4	15781.31	55.97 PK	74	-18.03	-51.64	-49.55	8.17	-39.29
5	15781.31	44.89 AV	54	-9.11	-61.7	-61.4	8.17	-50.37

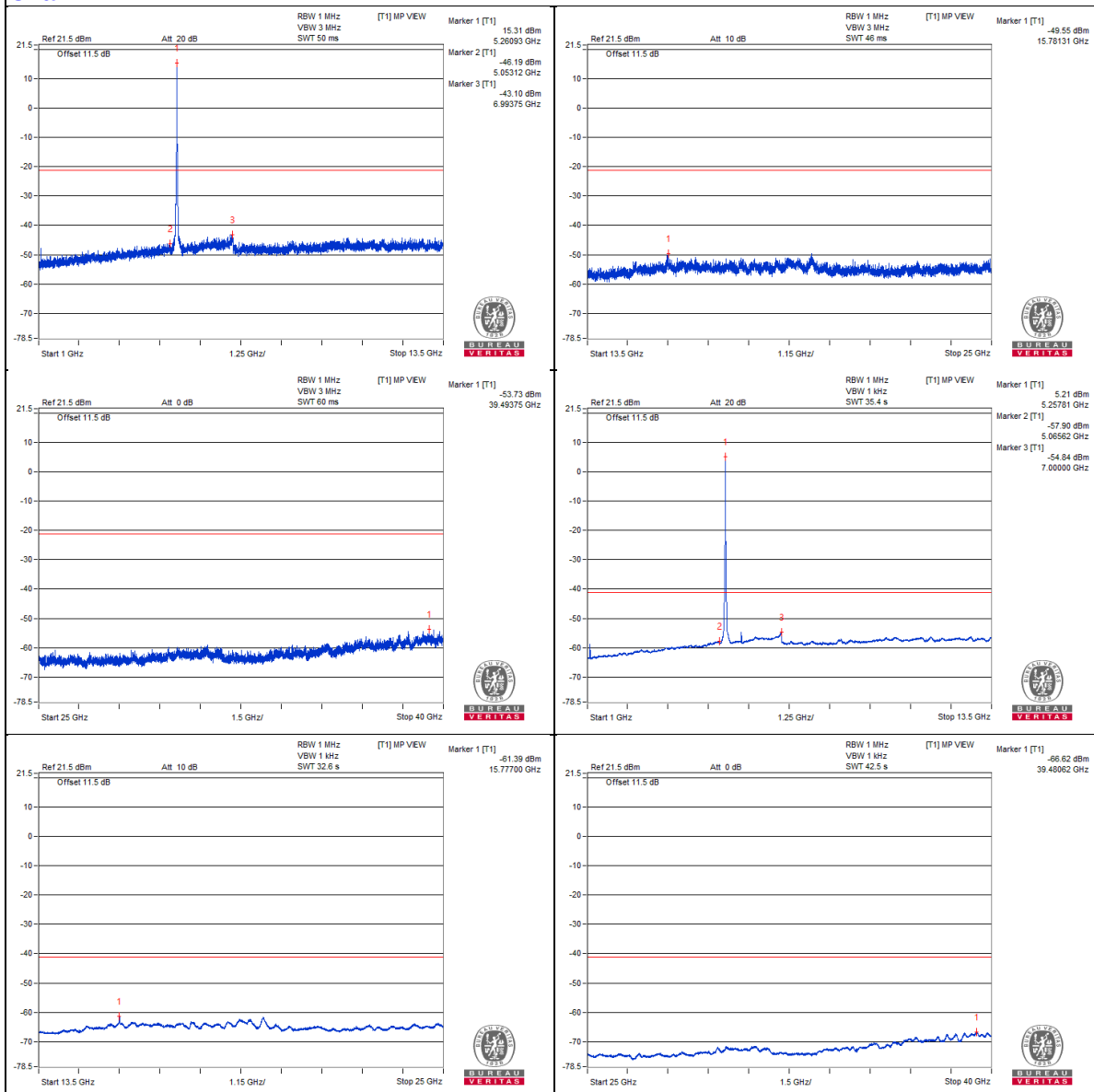
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0



Chain 1



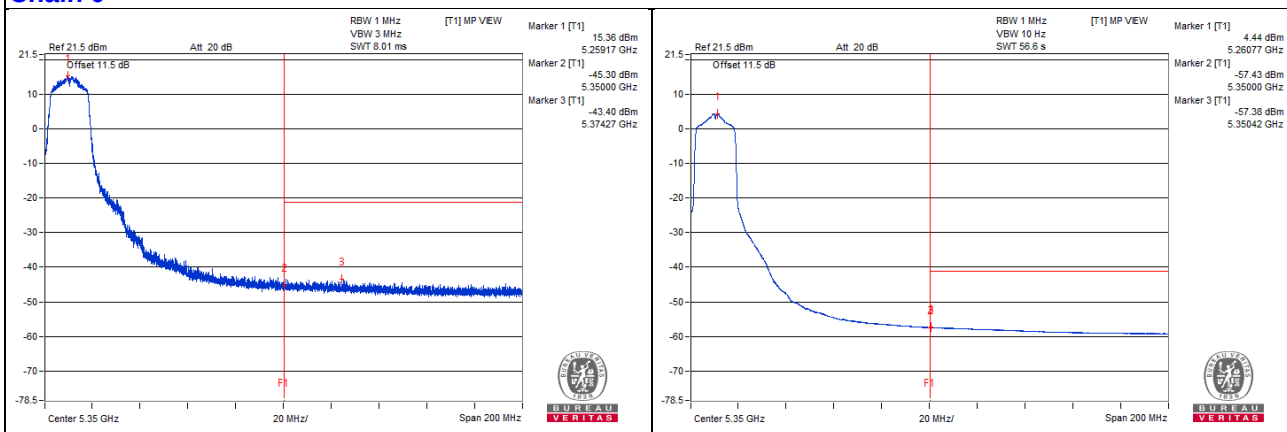
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5351.67	61.49 PK	74	-12.51	-45.5	-41.72	6.43	-33.77
2	5350.37	47.62 AV	54	-6.38	-57.39	-56.8	6.43	-47.64

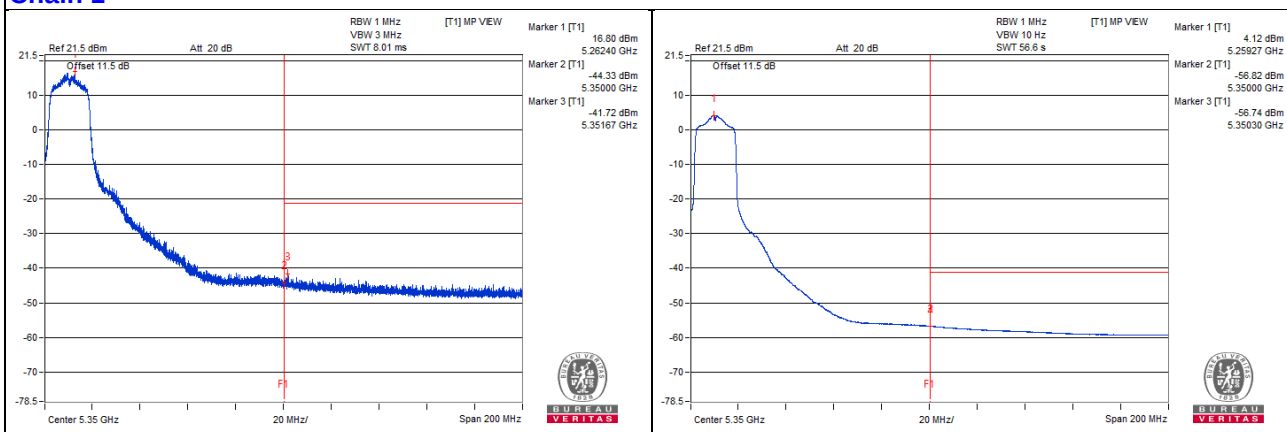
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Chain 0



Chain 1



802.11a - Channel 60

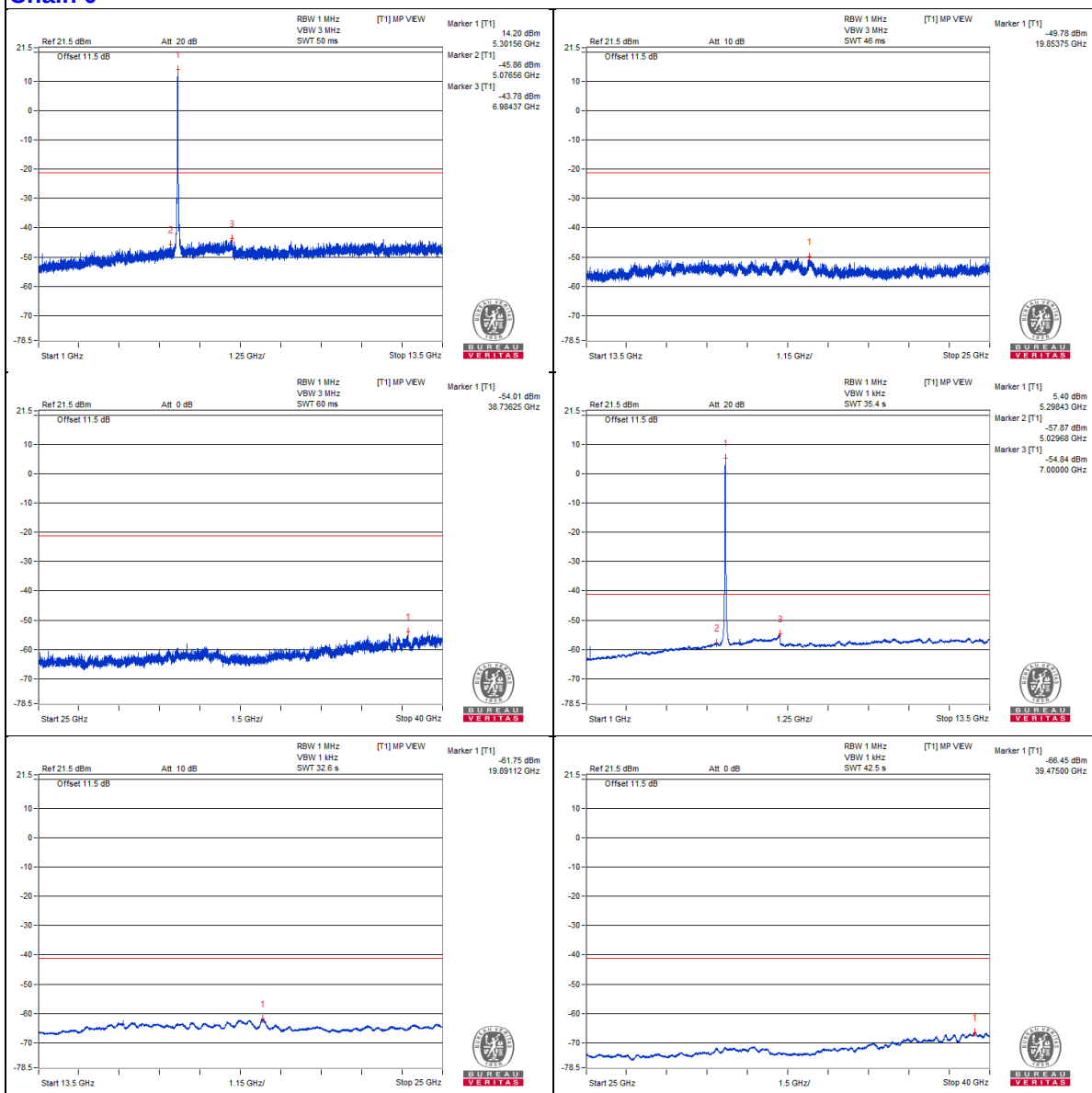
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3520.31	56.66 PK	74	-17.34	-49.95	-49.61	8.17	-38.60
2	3531.25	46.12 AV	54	-7.88	-60.22	-60.43	8.17	-49.14
3	#7050	60.16 PK	68.2	-8.04	-44.71	-48.76	8.17	-35.10
4	10614.06	60.33 PK	74	-13.67	-47.13	-45.28	8.17	-34.93
5	10592.18	49.61 AV	54	-4.39	-56.85	-56.82	8.17	-45.65
6	15896.31	55.17 PK	74	-18.83	-52.74	-50.18	8.17	-40.09
7	15896.31	43.97 AV	54	-10.03	-62.78	-62.18	8.17	-51.29

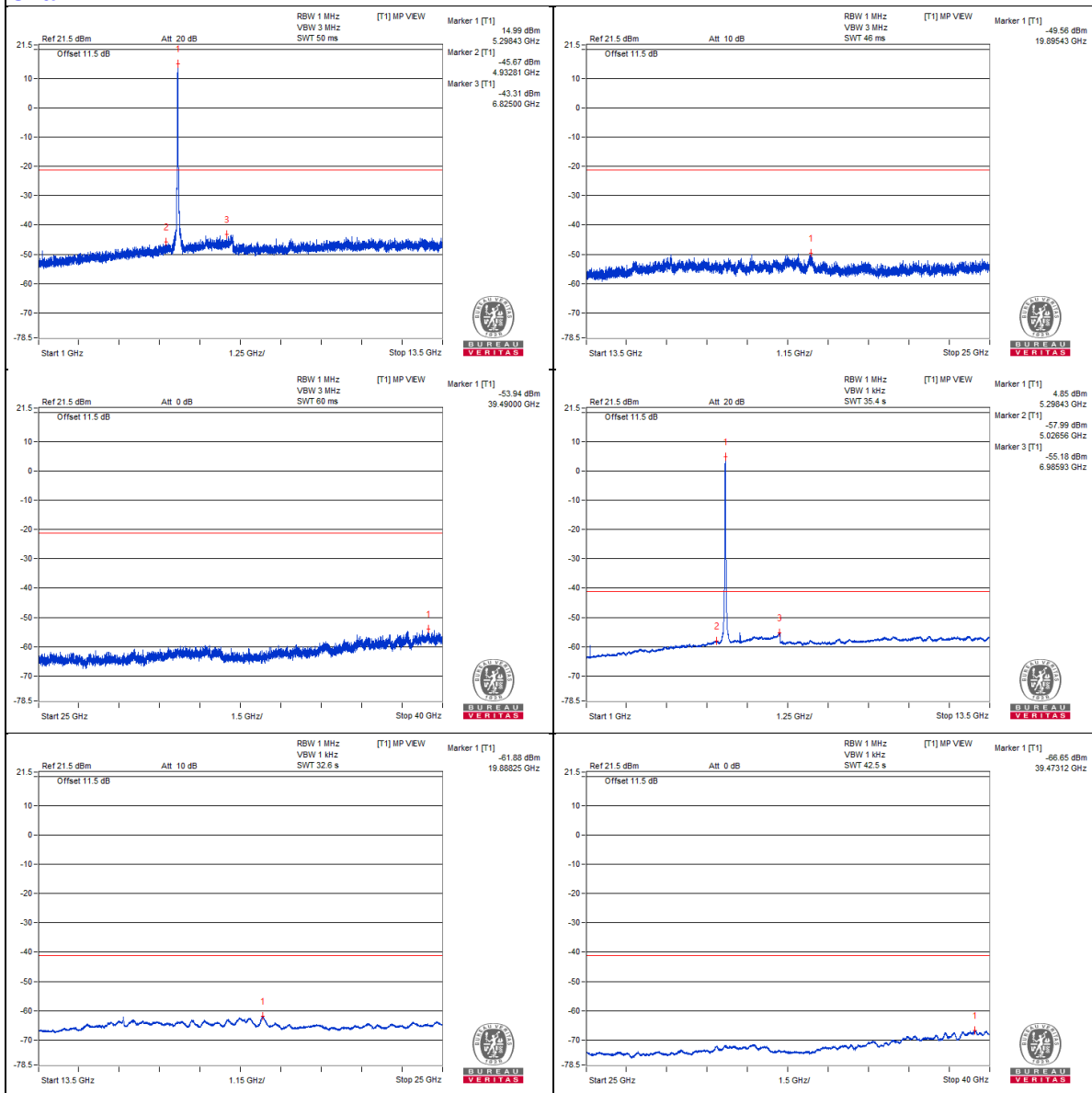
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0



Chain 1



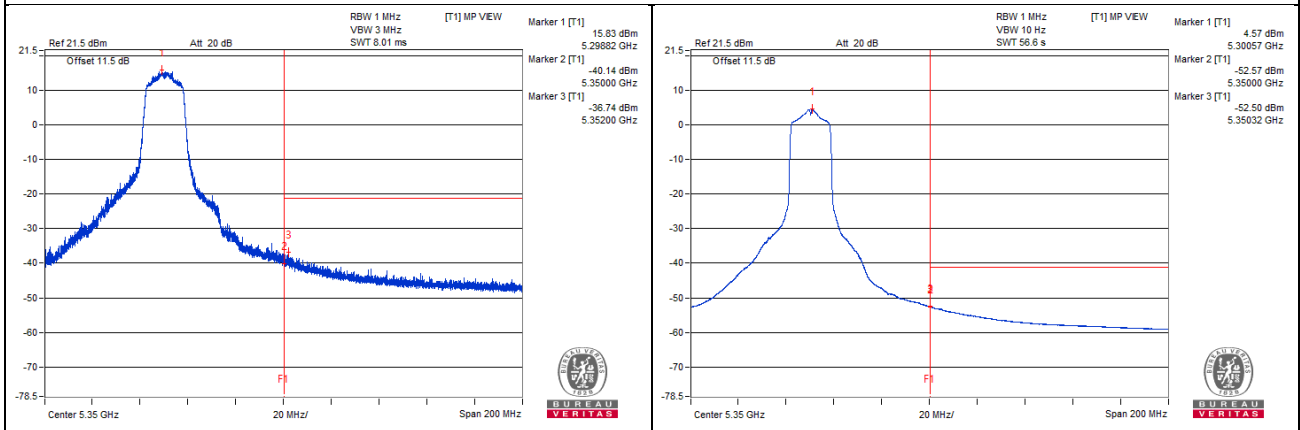
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5351.8	67.27 PK	74	-6.73	-37.74	-37.14	6.43	-27.99
2	5350.12	52.42 AV	54	-1.58	-52.57	-52	6.43	-42.84

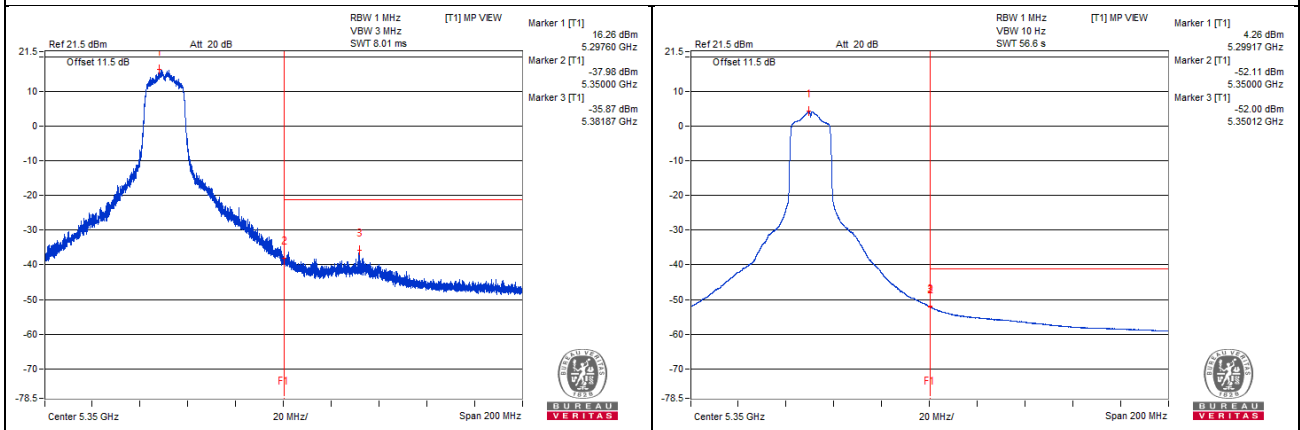
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.

Chain 0



Chain 1



802.11a - Channel 64

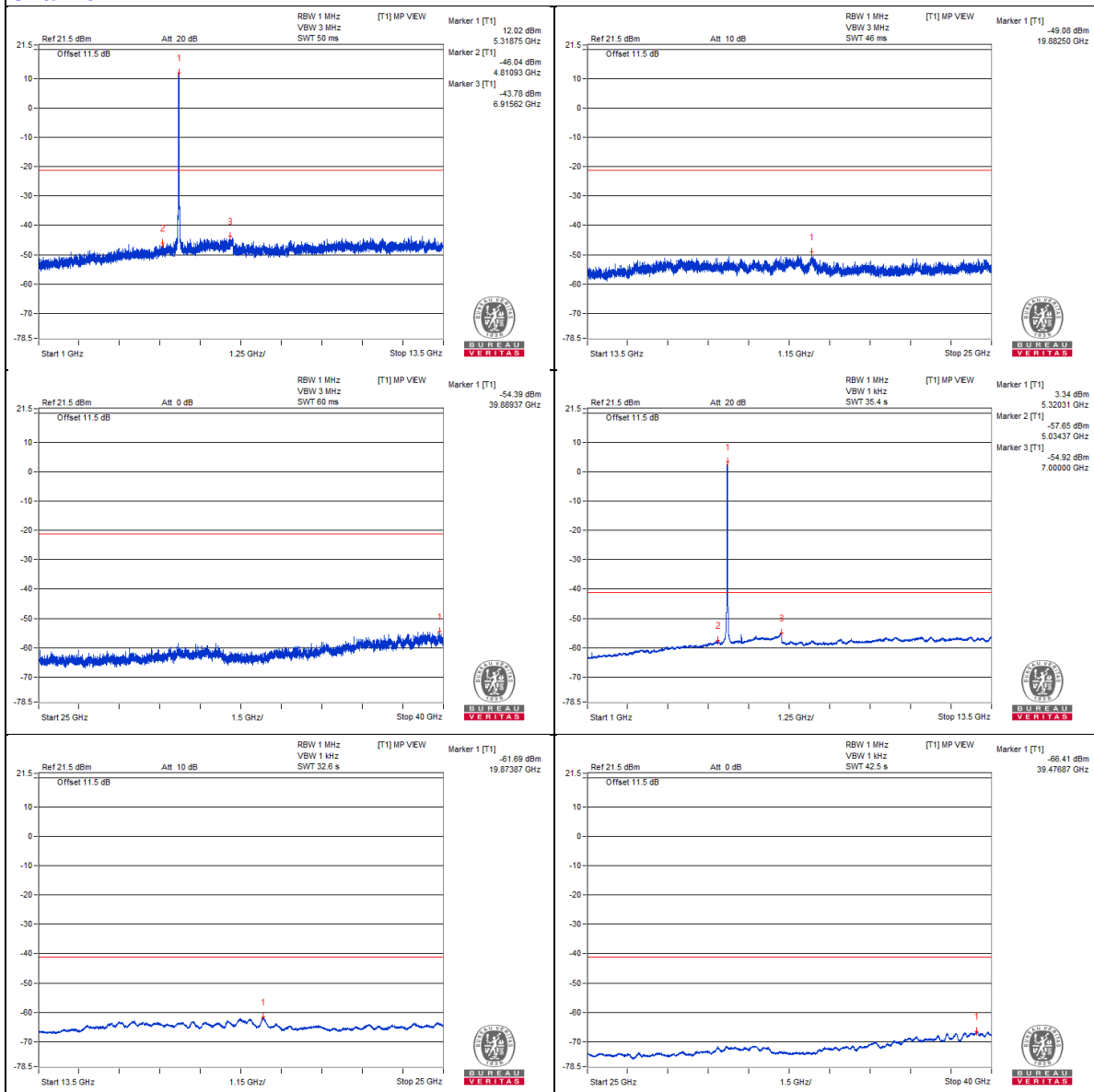
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3540.62	57.84 PK	74	-16.16	-48.65	-48.55	8.17	-37.42
2	3560.93	46.28 AV	54	-7.72	-60.09	-60.24	8.17	-48.98
3	#7076.56	59.28 PK	68.2	-8.92	-46.56	-47.85	8.17	-35.98
4	10621.87	60.05 PK	74	-13.95	-47.18	-45.73	8.17	-35.21
5	10631.25	49.39 AV	54	-4.61	-56.93	-57.18	8.17	-45.87
6	15955.25	52.81 PK	74	-21.19	-53.47	-53.8	8.17	-42.45
7	15955.25	42.15 AV	54	-11.85	-64.38	-64.21	8.17	-53.11

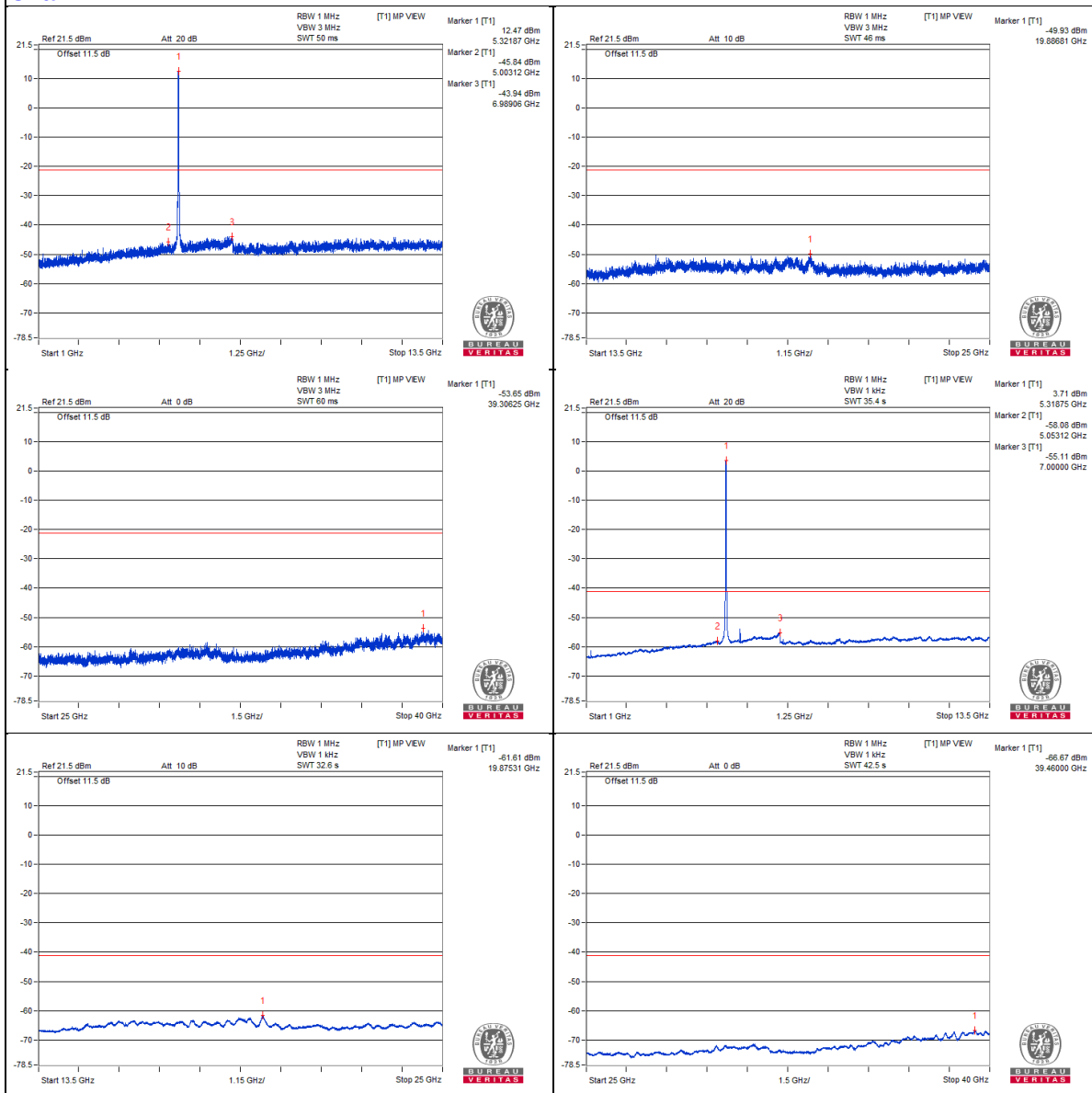
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0



Chain 1



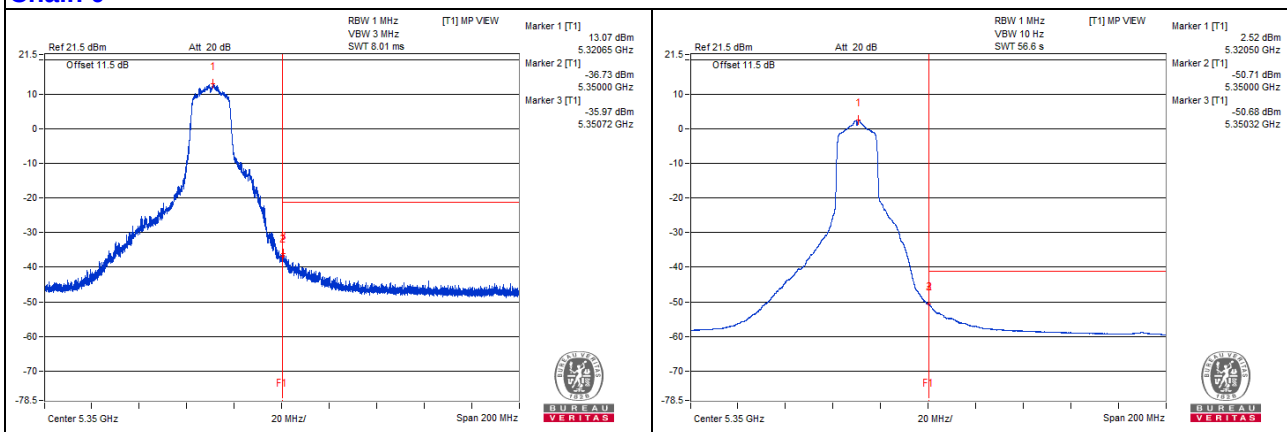
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5351.27	68.15 PK	74	-5.85	-41.09	-34.38	6.43	-27.11
2	5350.05	54.09 AV	54	! 0.09	-53.73	-48.82	6.43	-41.17

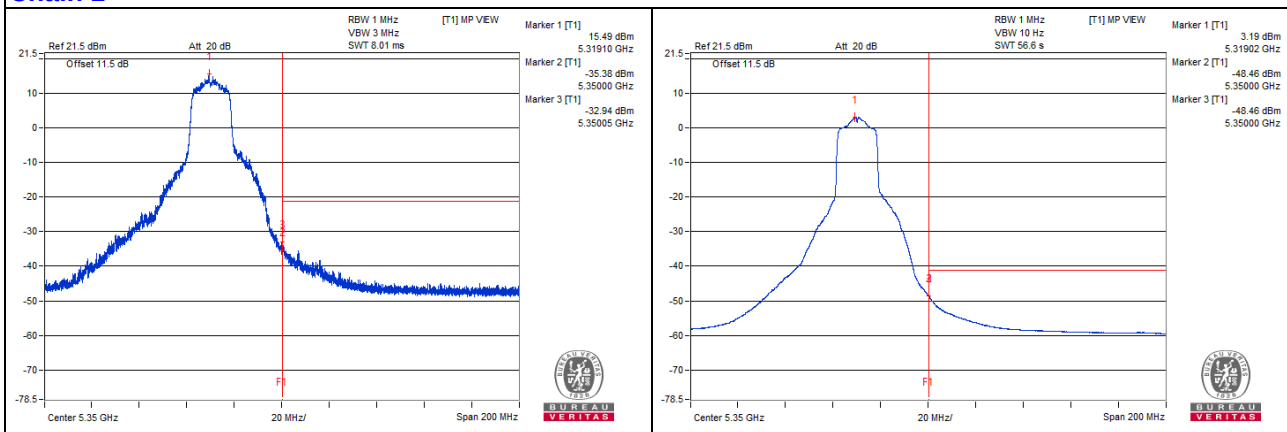
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " ! " : The unwanted emission was verified and the test result was passed by radiated measurement.
(Please refer Appendix B)

Chain 0



Chain 1



802.11a - Channel 100

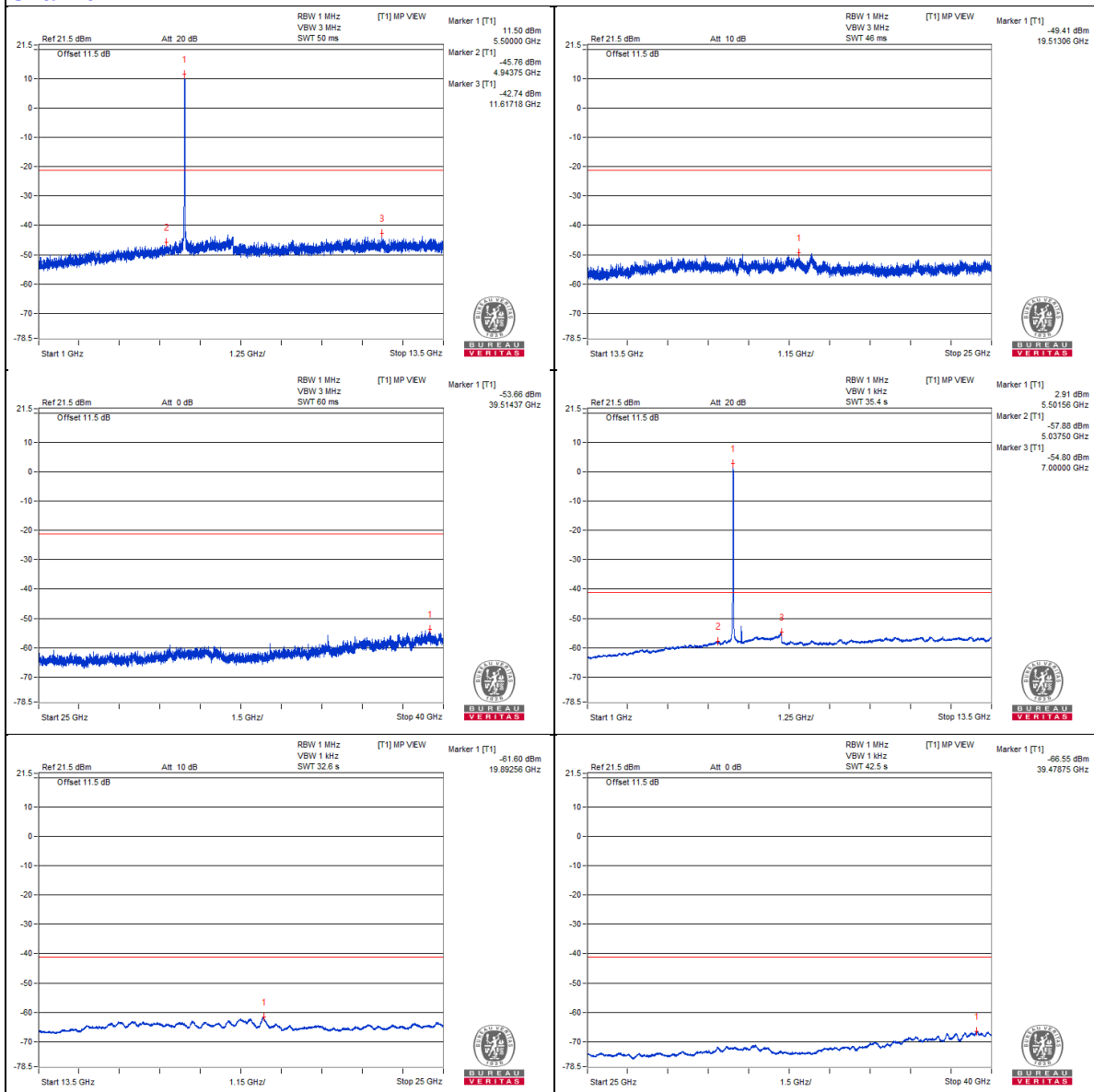
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3657.81	56.99 PK	74	-17.01	-48.76	-50.27	8.17	-38.27
2	3651.56	46.41 AV	54	-7.59	-59.98	-60.09	8.17	-48.85
3	7314.06	59.1 PK	74	-14.9	-46.87	-47.87	8.17	-36.16
4	7315.62	48.19 AV	54	-5.81	-58.32	-58.18	8.17	-47.07
5	11018.75	60.1 PK	74	-13.9	-45.85	-46.89	8.17	-35.16
6	11004.68	49.05 AV	54	-4.95	-57.28	-57.5	8.17	-46.21
7	#16497.18	53.86 PK	68.2	-14.34	-53.89	-51.57	8.17	-41.40

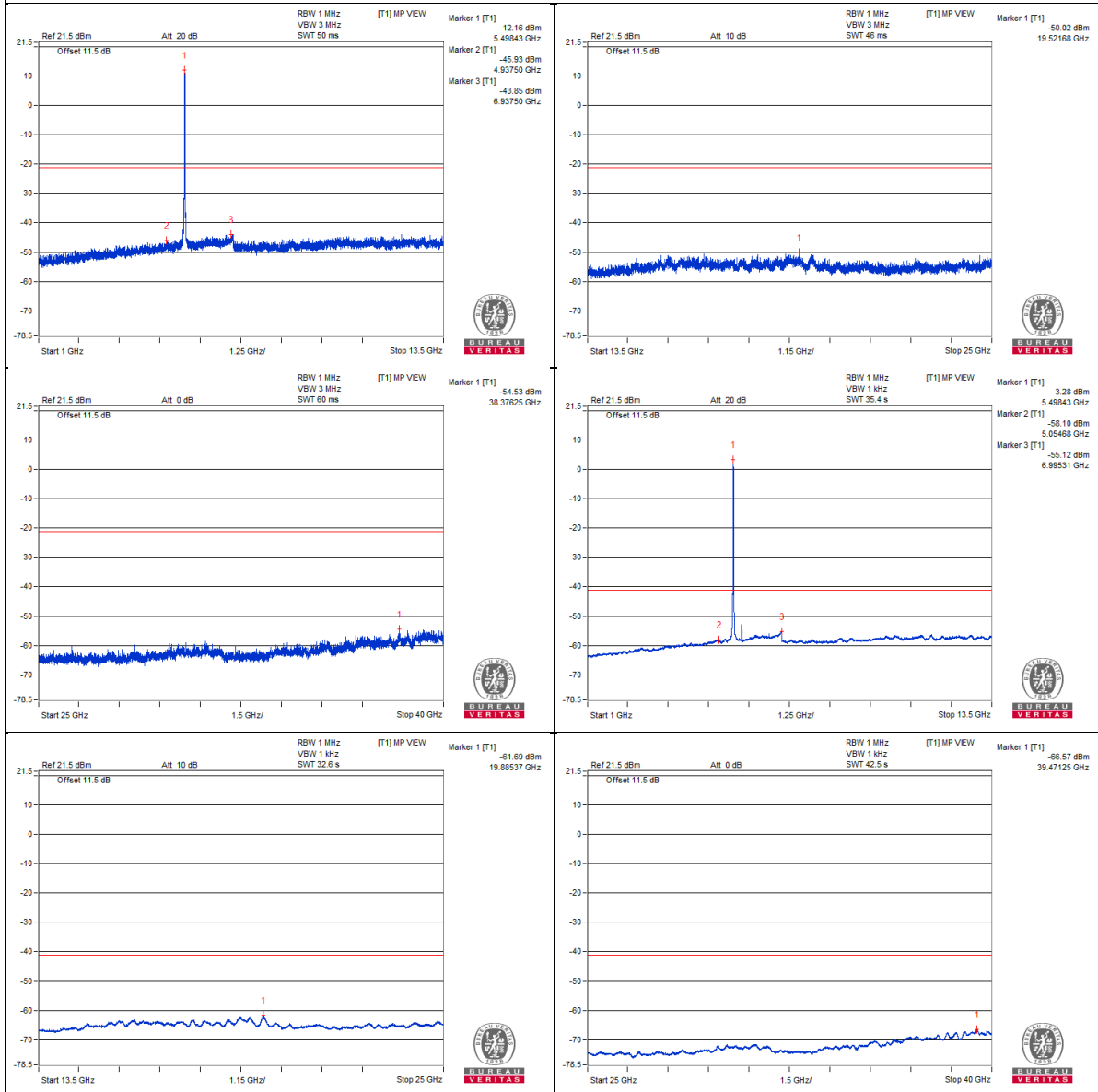
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0



Chain 1



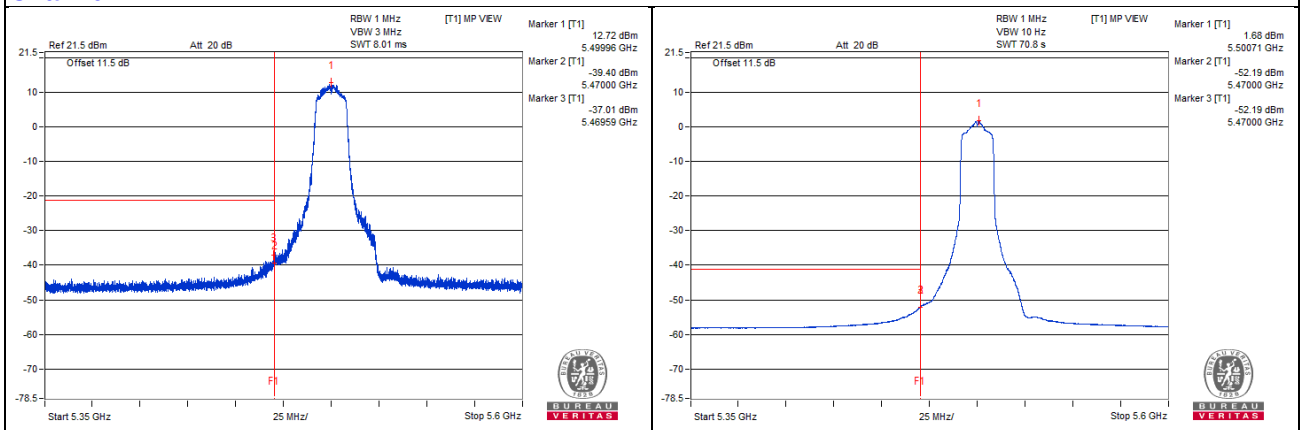
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5458.62	65.66 PK	74	-8.34	-42.84	-38.89	7.82	-29.60
2	5460	51.59 AV	54	-2.41	-55.28	-53.84	7.82	-43.67
3	#5469.93	71.34 PK	68.2	! 3.14	-37.46	-33.09	7.82	-23.92

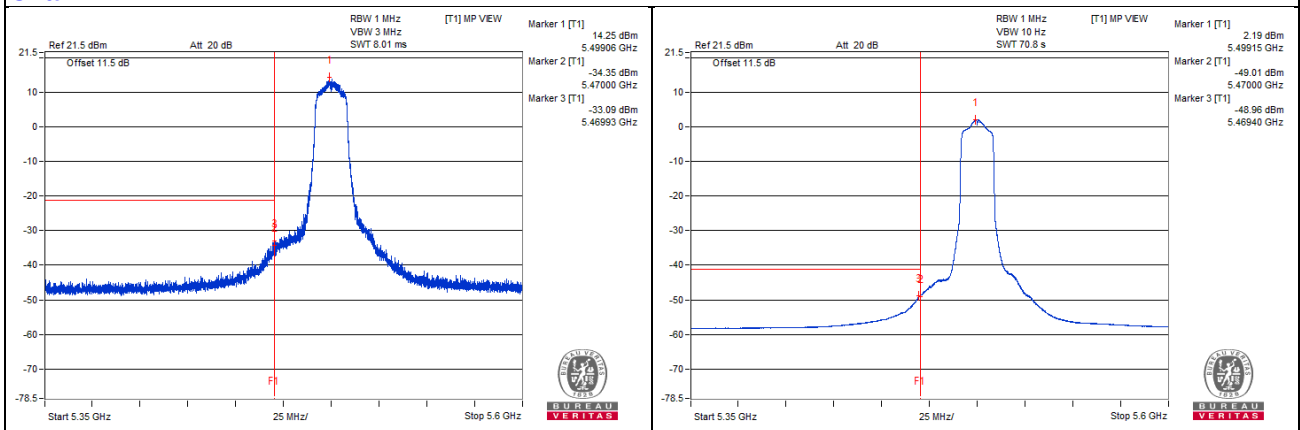
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.
4. " ! " : The unwanted emission was verified and the test result was passed by radiated measurement.
(Please refer Appendix B)

Chain 0



Chain 1



802.11a - Channel 116

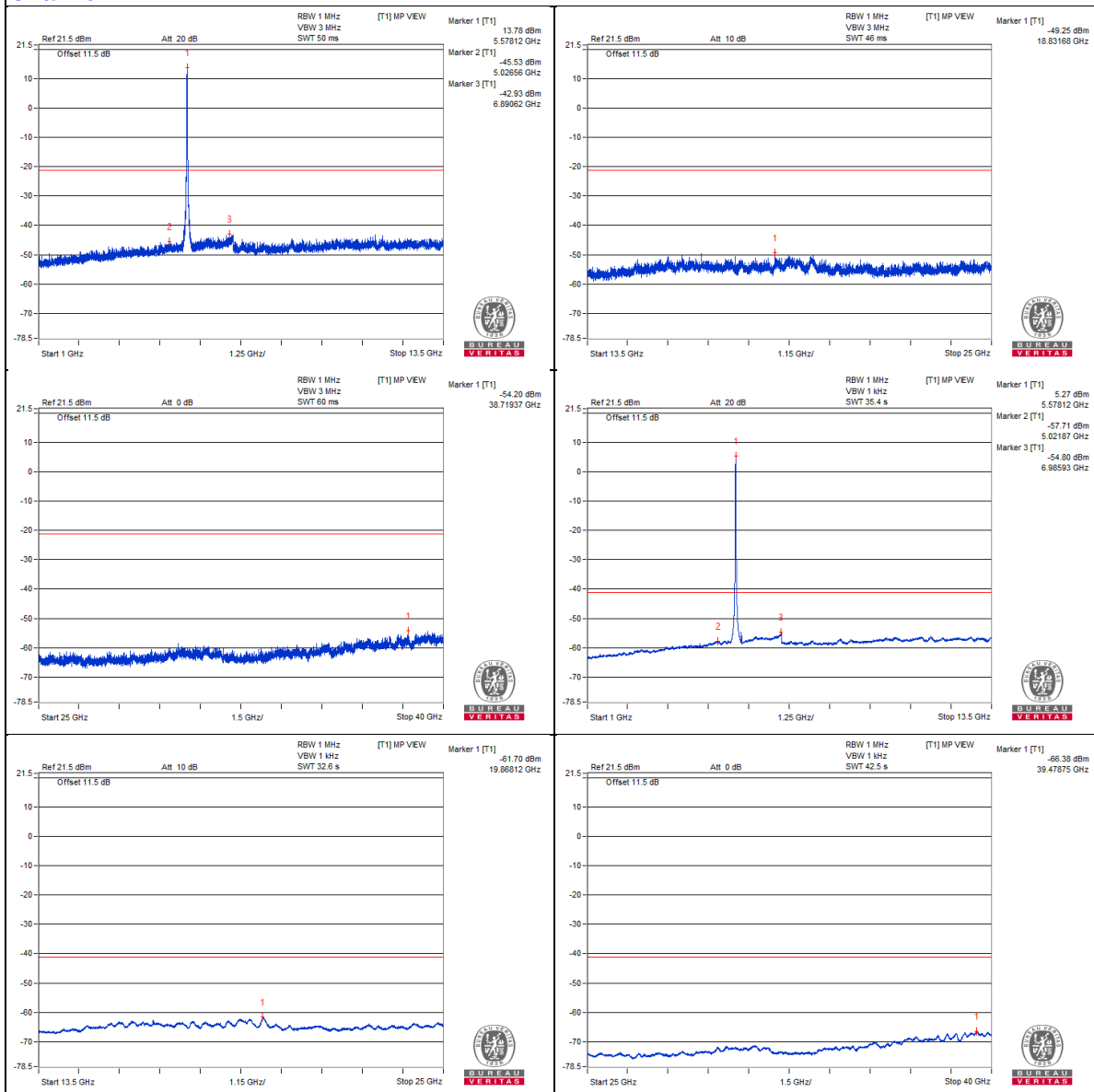
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3717.18	57.42 PK	74	-16.58	-49.05	-49	8.17	-37.84
2	3715.62	46.46 AV	54	-7.54	-59.78	-60.2	8.17	-48.80
3	7456.25	59.17 PK	74	-14.83	-46.29	-48.55	8.17	-36.09
4	7420.31	47.95 AV	54	-6.05	-58.03	-59.01	8.17	-47.31
5	11176.56	61.06 PK	74	-12.94	-44.48	-46.51	8.17	-34.20
6	11176.56	49.49 AV	54	-4.51	-56.73	-57.18	8.17	-45.77
7	#16741.56	55.88 PK	68.2	-12.32	-49.58	-51.84	8.17	-39.38

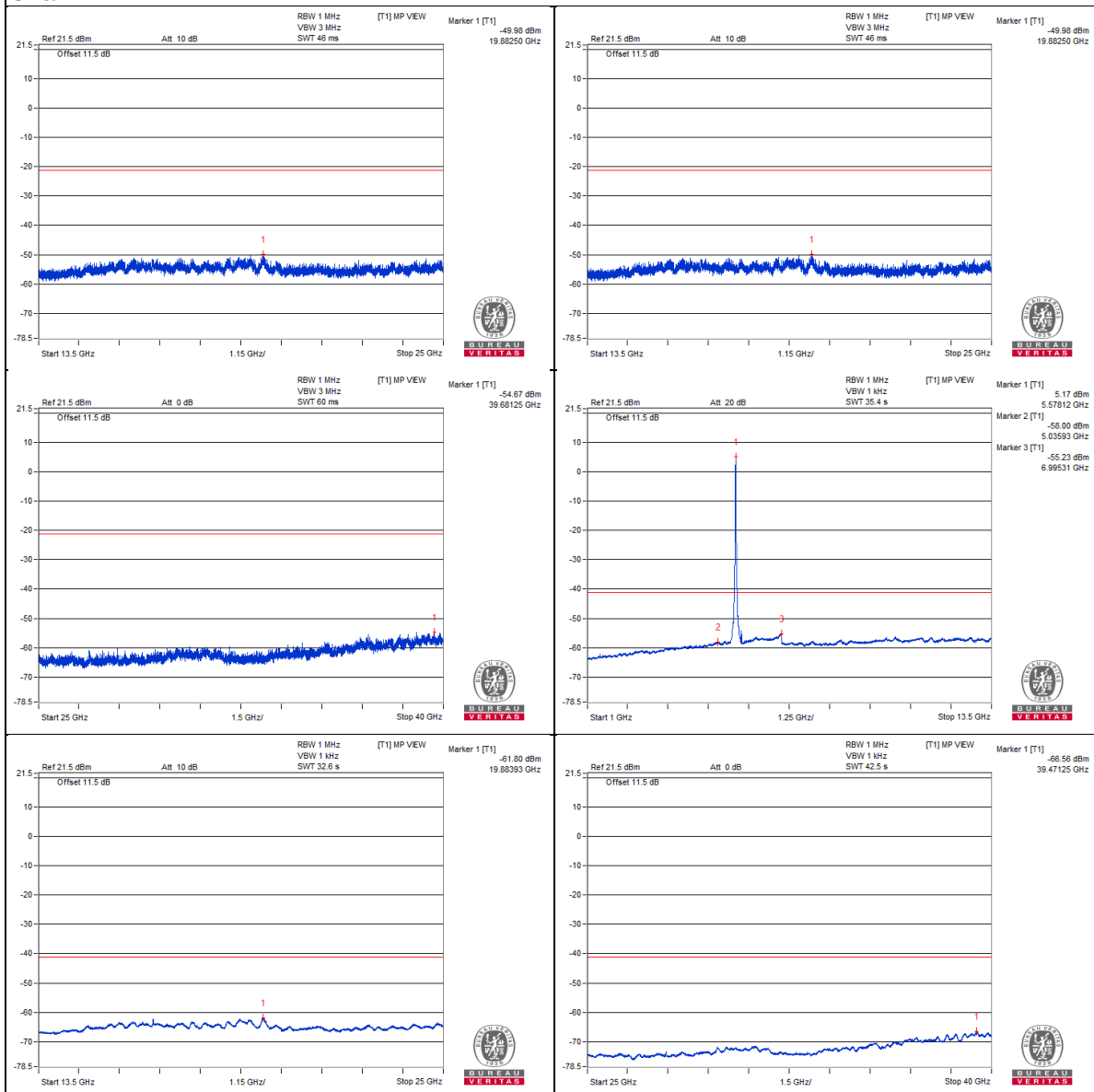
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0



Chain 1



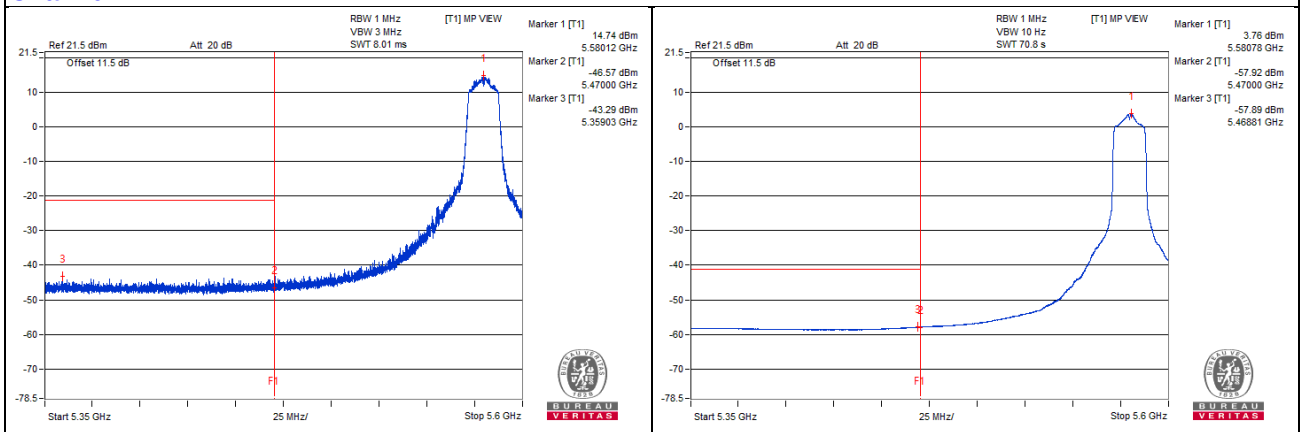
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5456.68	66.66 PK	74	-7.34	-45.19	-37.04	7.82	-28.60
2	5459.75	49.26 AV	54	-4.74	-58.18	-55.8	7.82	-46.00
3	#5463.09	66.55 PK	68.2	-1.65	-47.38	-36.9	7.82	-28.71

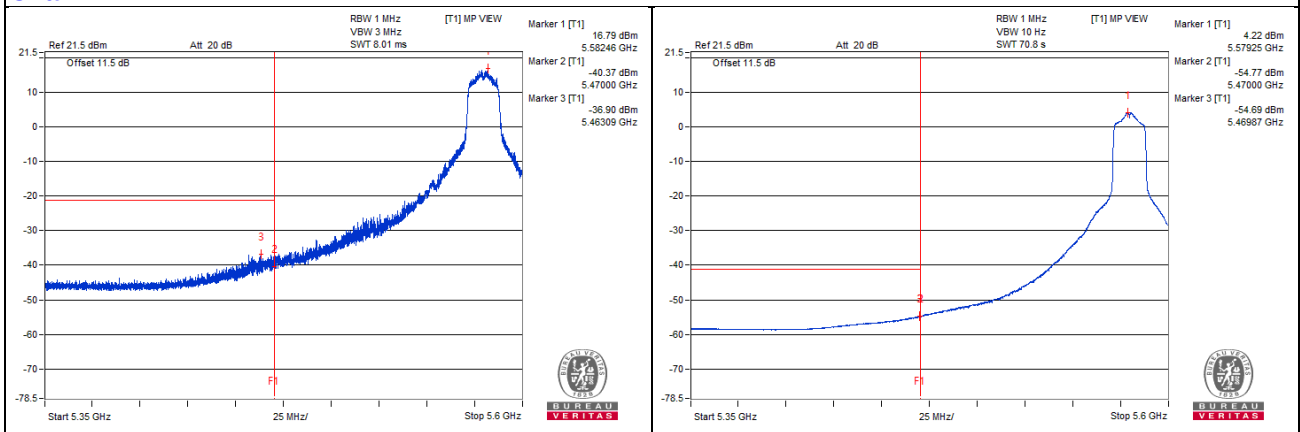
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0



Chain 1



802.11a - Channel 140

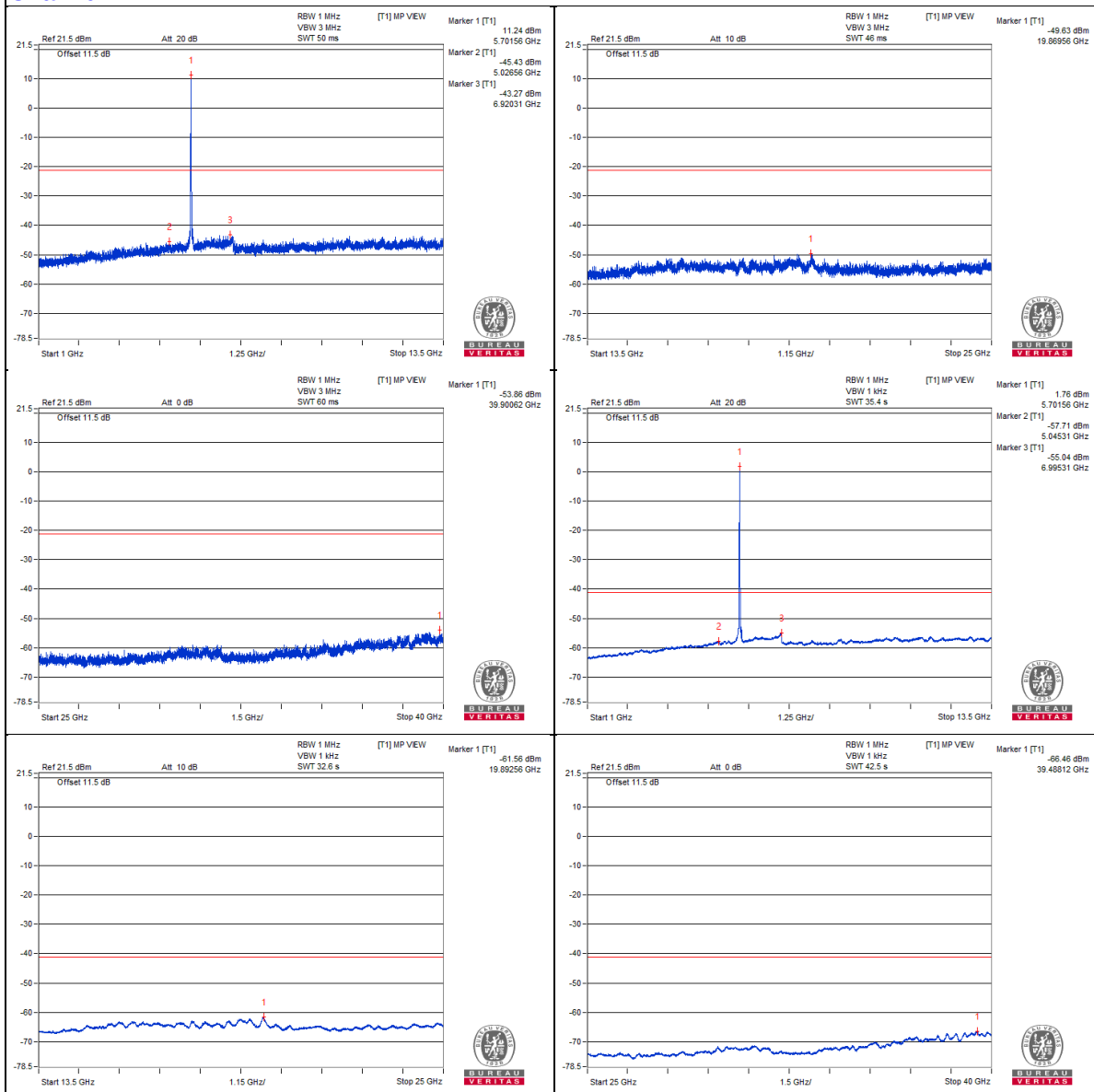
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3787.5	57.69 PK	74	-16.31	-48.28	-49.28	8.17	-37.57
2	3781.25	46.47 AV	54	-7.53	-59.86	-60.09	8.17	-48.79
3	7609.37	59.5 PK	74	-14.5	-46.66	-47.25	8.17	-35.76
4	7589.06	48.13 AV	54	-5.87	-58.47	-58.16	8.17	-47.13
5	11400	60.73 PK	74	-13.27	-44.76	-46.92	8.17	-34.53
6	11392.18	49.64 AV	54	-4.36	-56.55	-57.07	8.17	-45.62
7	#17093.75	52.96 PK	68.2	-15.24	-54.45	-52.68	8.17	-42.30

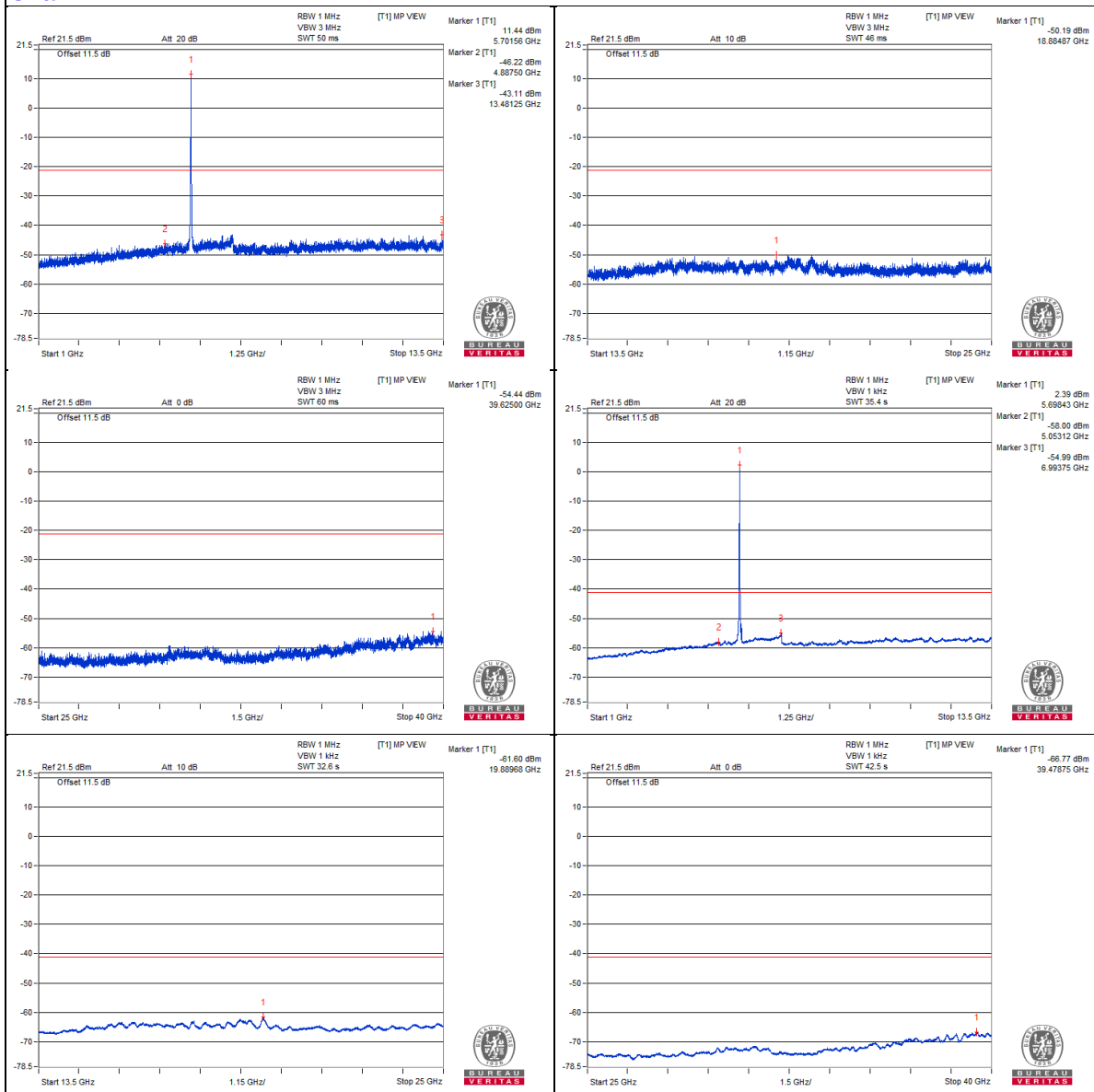
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0



Chain 1



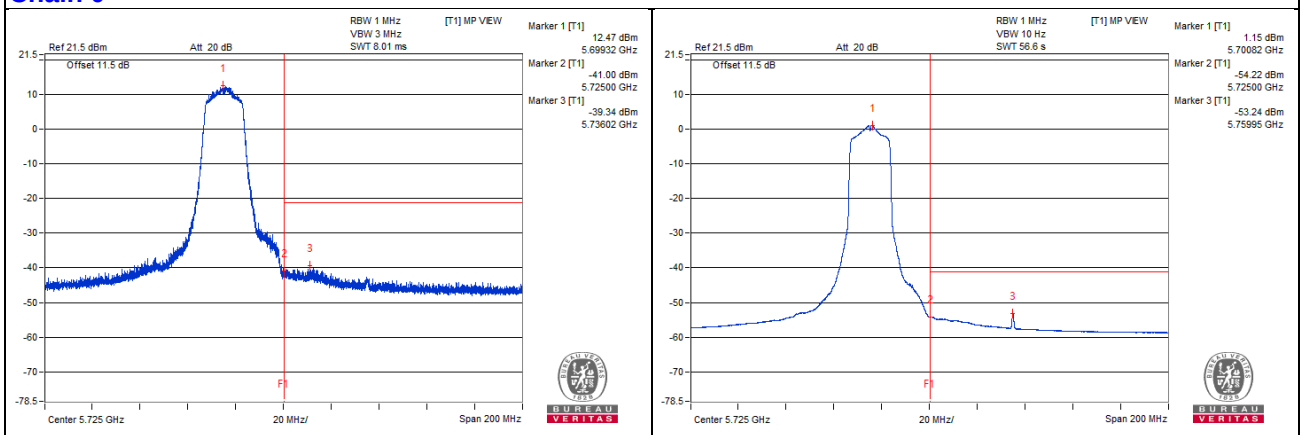
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	#5725.42	71.26 PK	68.2	! 3.06	-41.57	-32.31	7.82	-24.00

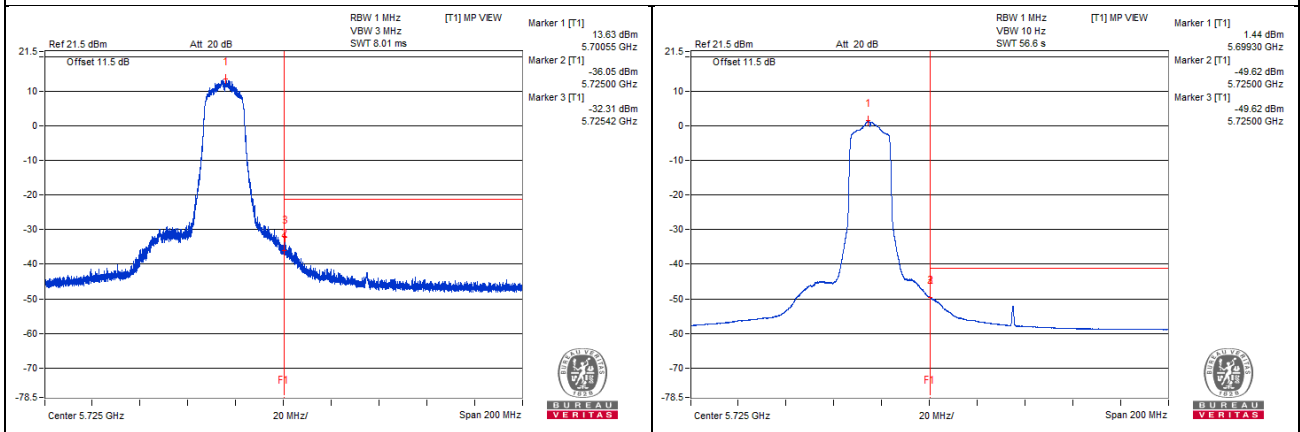
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.
4. " ! " : The unwanted emission was verified and the test result was passed by radiated measurement.
(Please refer Appendix B)

Chain 0



Chain 1



802.11a - Channel 144

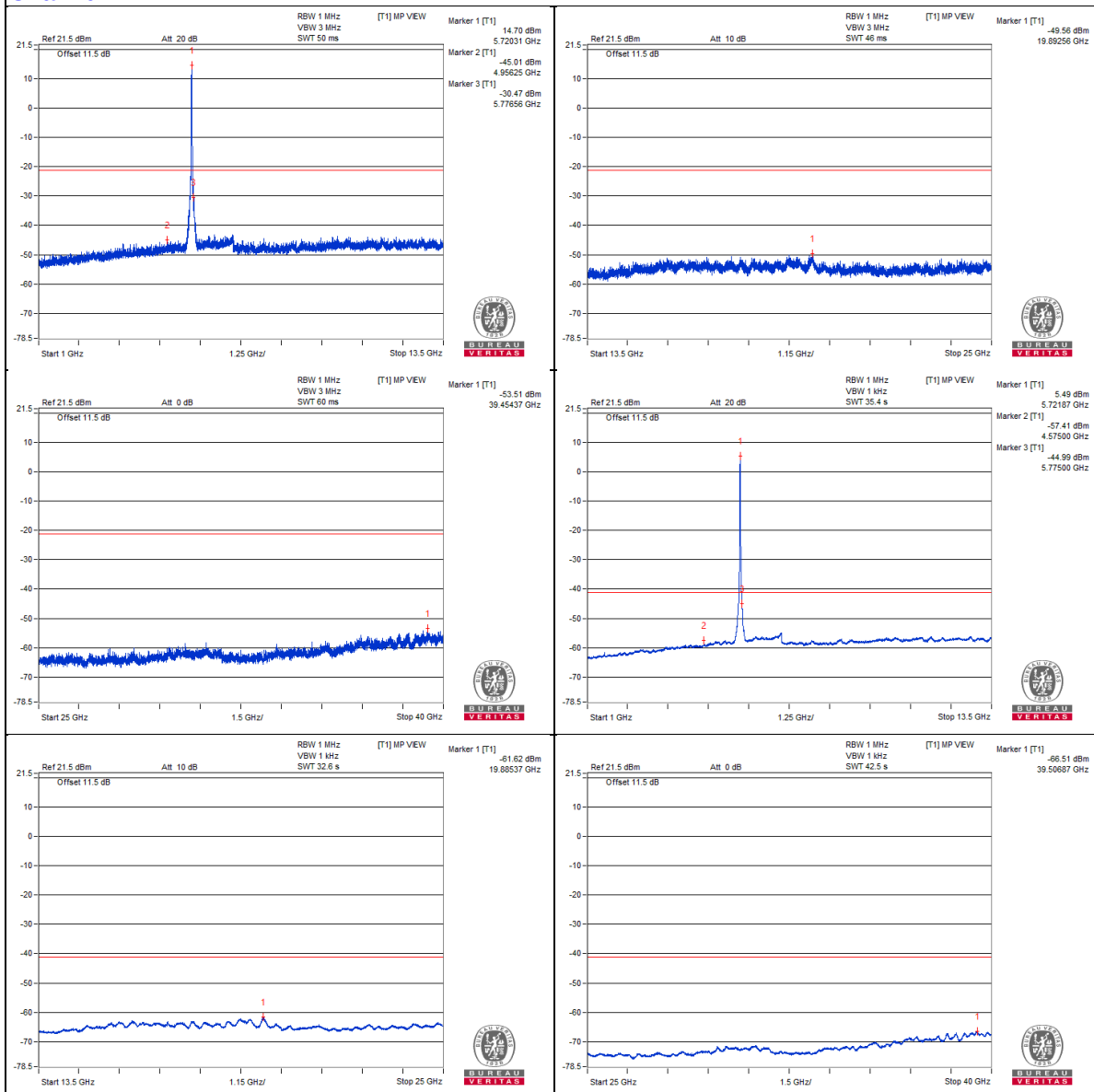
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3818.75	59.23 PK	74	-14.77	-46.54	-48.01	8.17	-36.03
2	3801.56	46.52 AV	54	-7.48	-59.94	-59.91	8.17	-48.74
3	7631.25	59.72 PK	74	-14.28	-46.92	-46.53	8.17	-35.54
4	7607.81	48.13 AV	54	-5.87	-57.99	-58.66	8.17	-47.13
5	11459.37	60.62 PK	74	-13.38	-45.04	-46.76	8.17	-34.64
6	11437.5	48.93 AV	54	-5.07	-57.55	-57.48	8.17	-46.33
7	#17168.5	54.43 PK	68.2	-13.77	-53.72	-50.79	8.17	-40.83

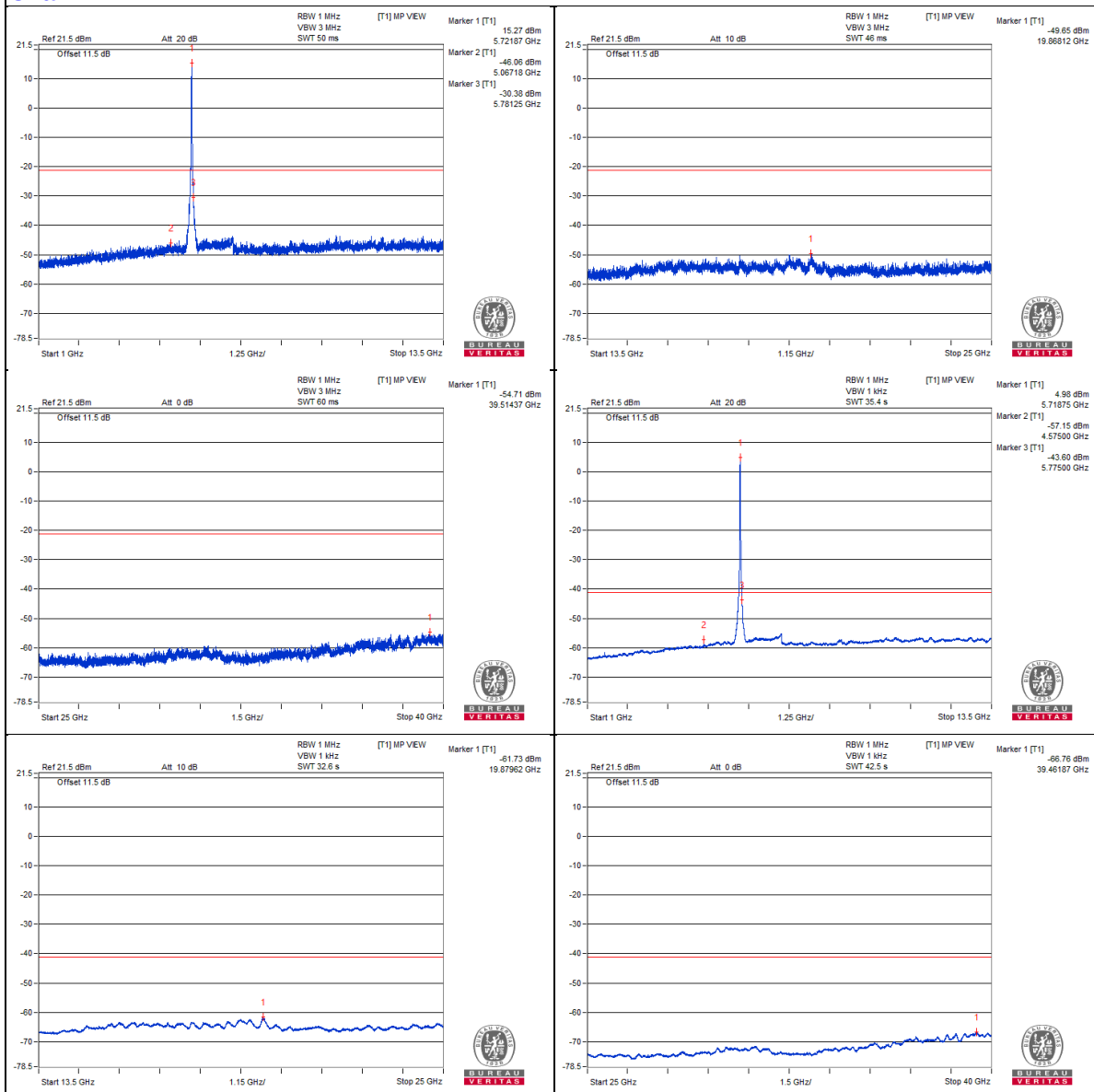
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0



Chain 1



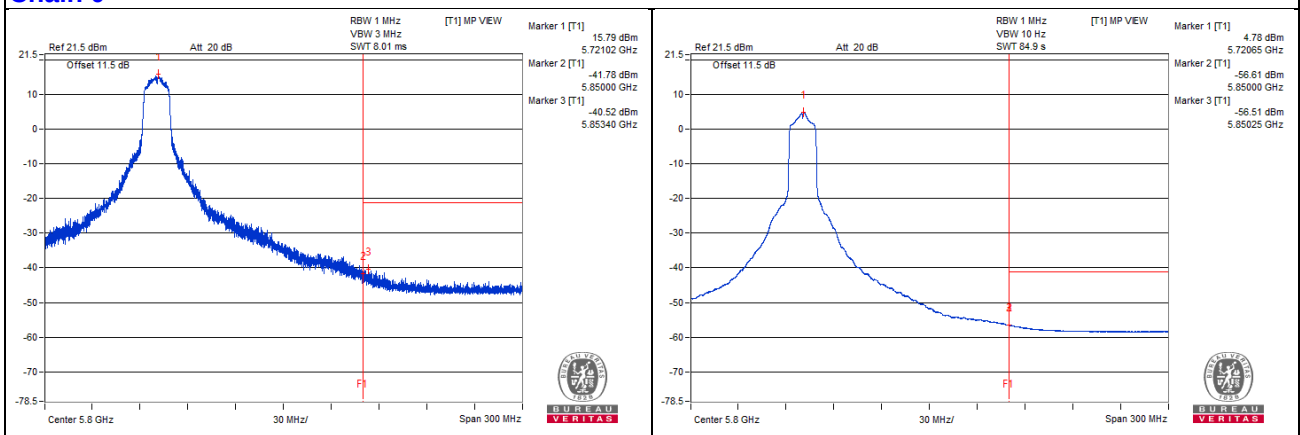
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	#5851.03	64.89 PK	68.2	-3.31	-40.61	-41.88	7.82	-30.37

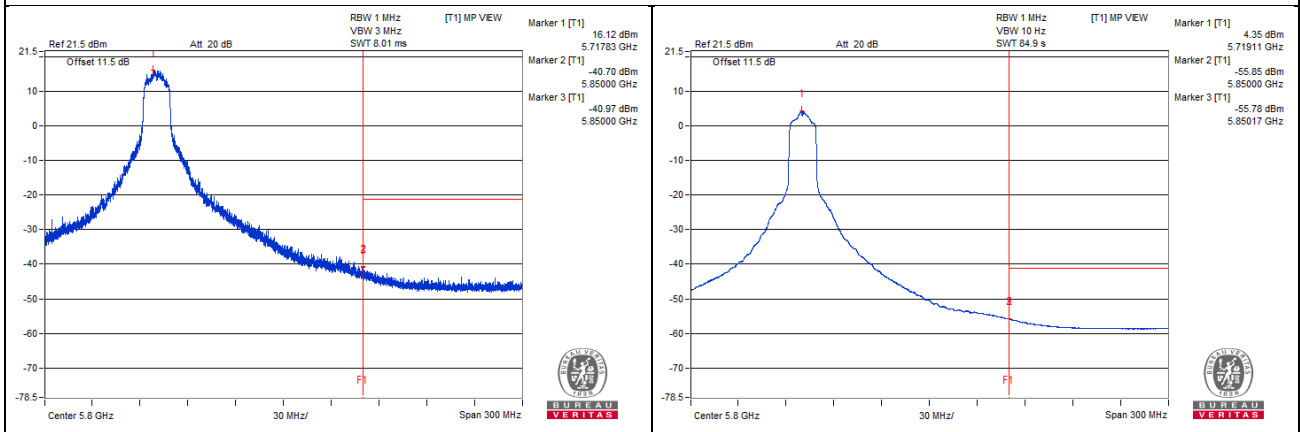
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0



Chain 1



802.11a – Channel 149

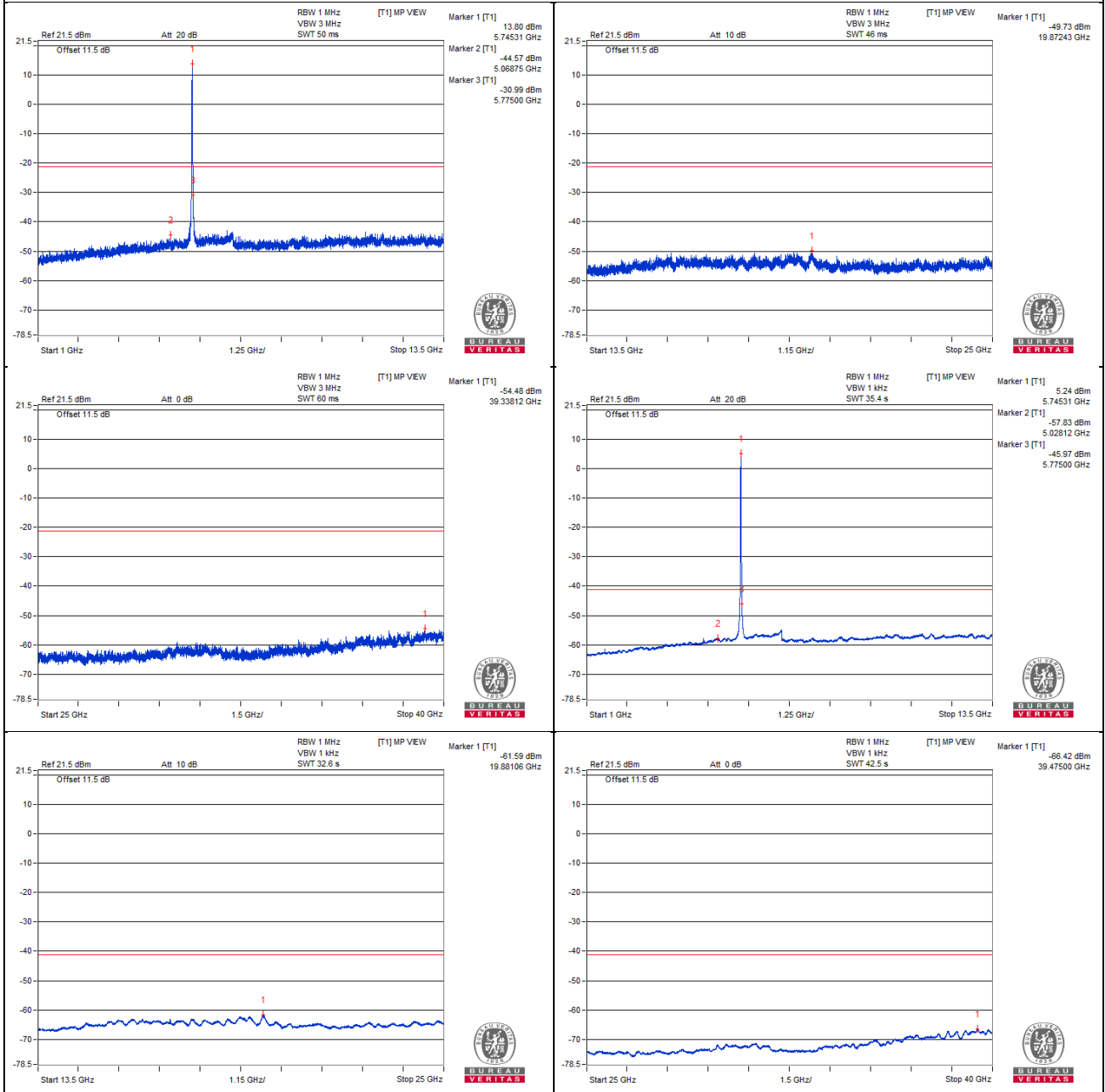
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3810.93	58.03 PK	74	-15.97	-48.92	-47.95	8.17	-37.23
2	3812.5	46.41 AV	54	-7.59	-59.75	-60.33	8.17	-48.85
3	7679.68	59.17 PK	74	-14.83	-48.51	-46.3	8.17	-36.09
4	7640.62	48.1 AV	54	-5.9	-58.26	-58.42	8.17	-47.16
5	11475	60.92 PK	74	-13.08	-44.95	-46.18	8.17	-34.34
6	11500	48.98 AV	54	-5.02	-57.49	-57.44	8.17	-46.28
7	#17228.87	54.41 PK	68.2	-13.79	-52.58	-51.54	8.17	-40.85

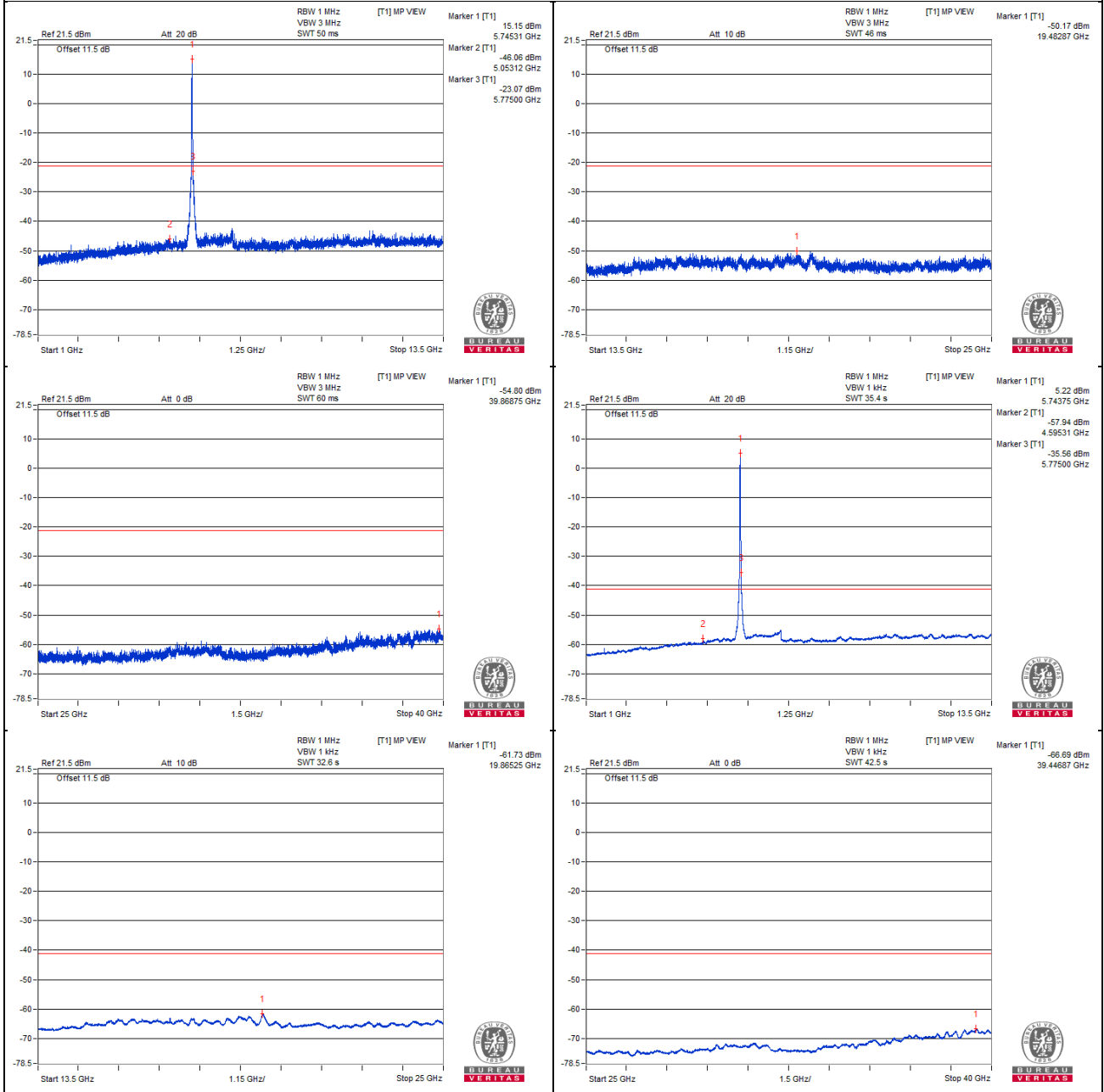
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0

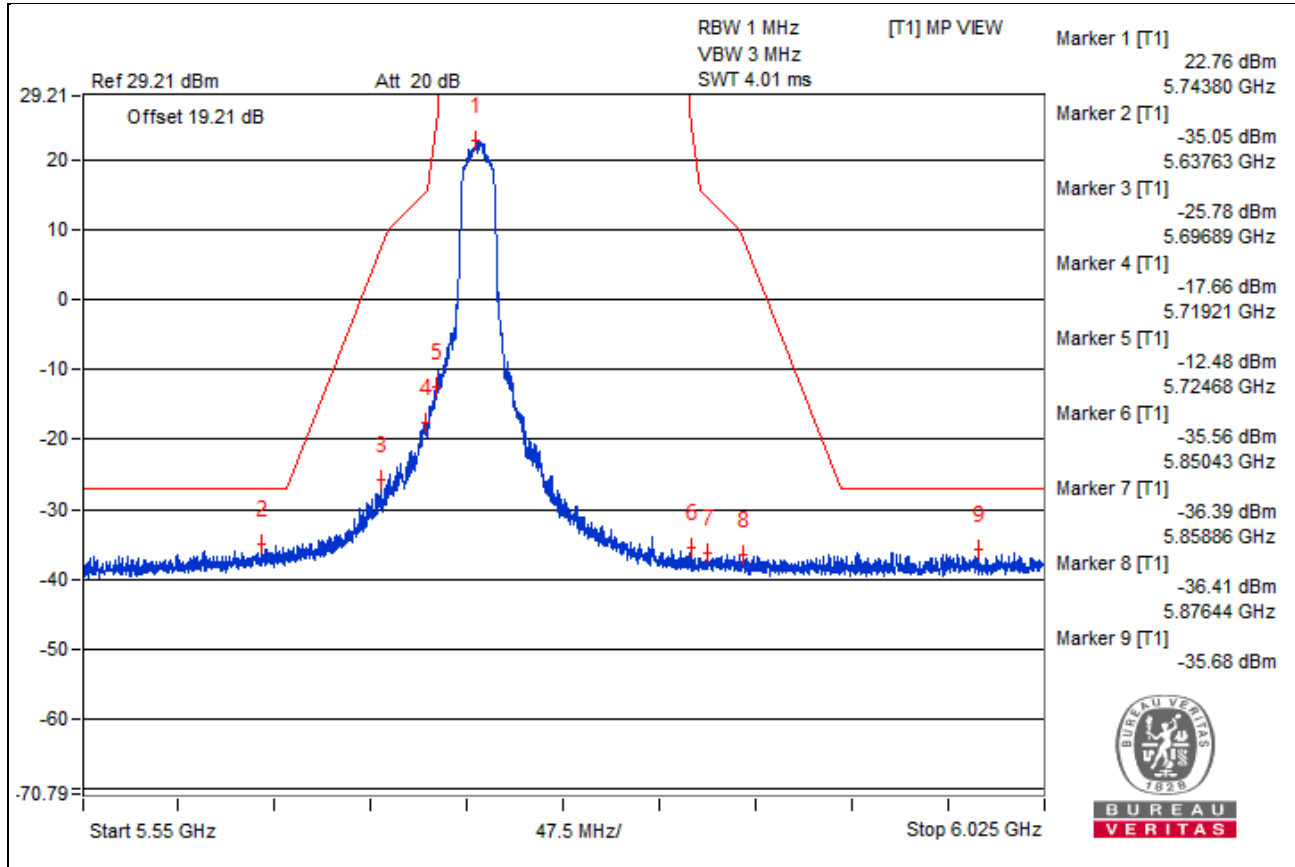


Chain 1

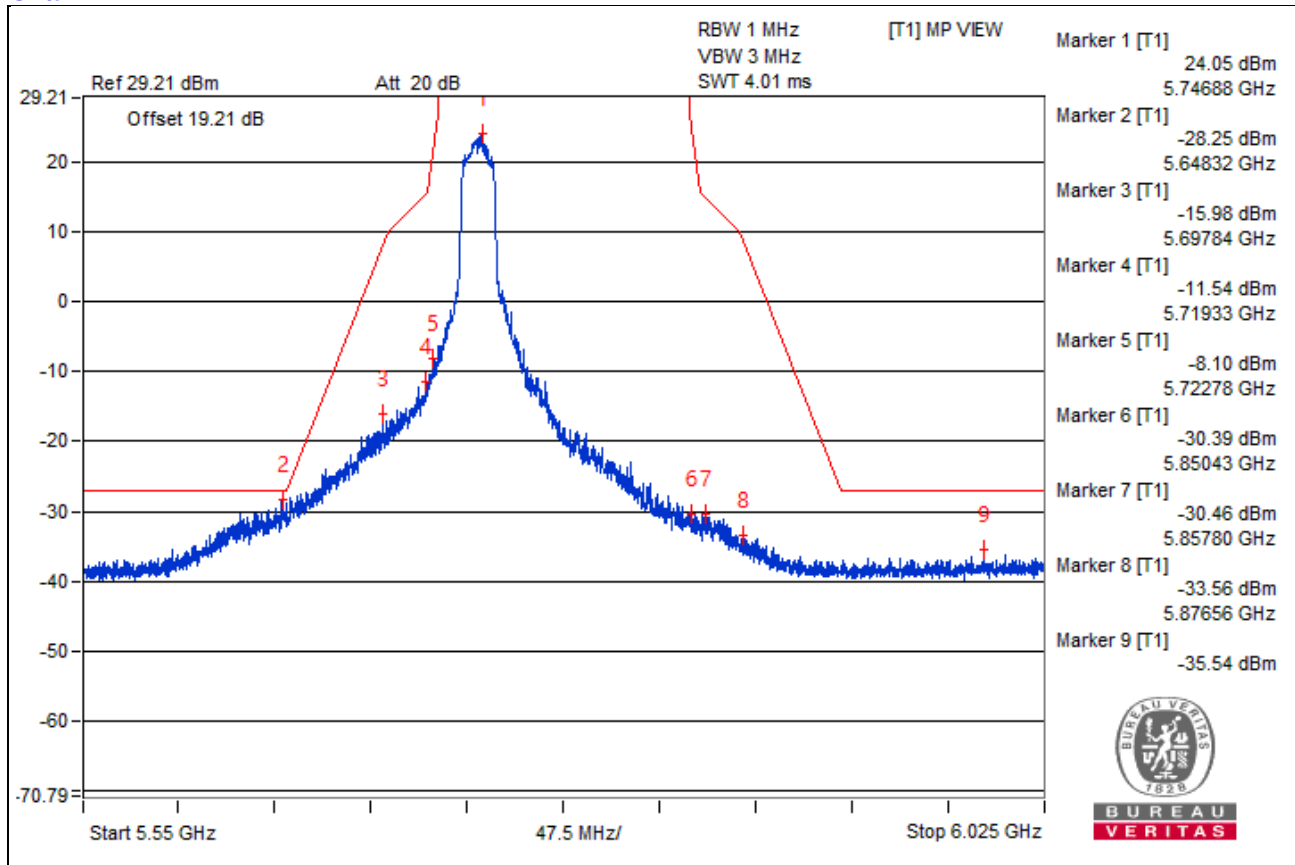


Bandedge table

Chain 0



Chain 1



802.11a – Channel 157

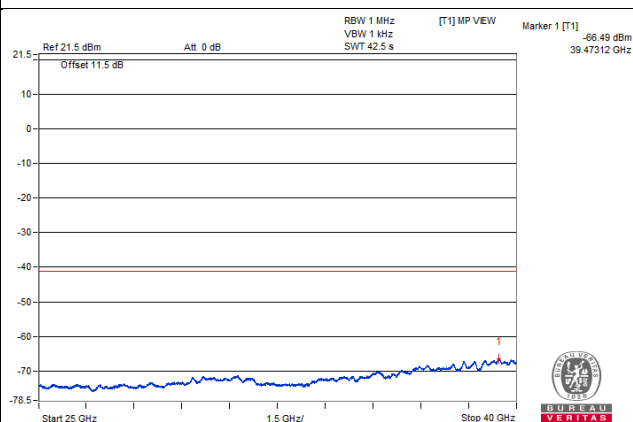
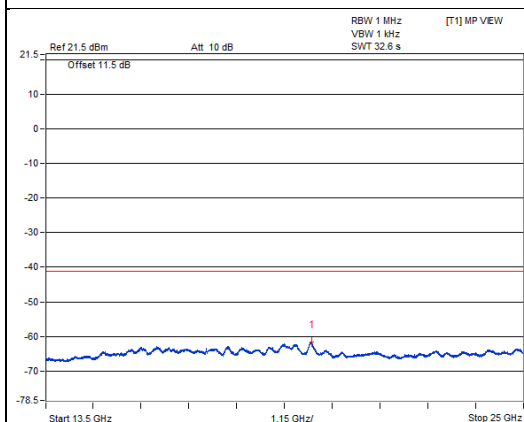
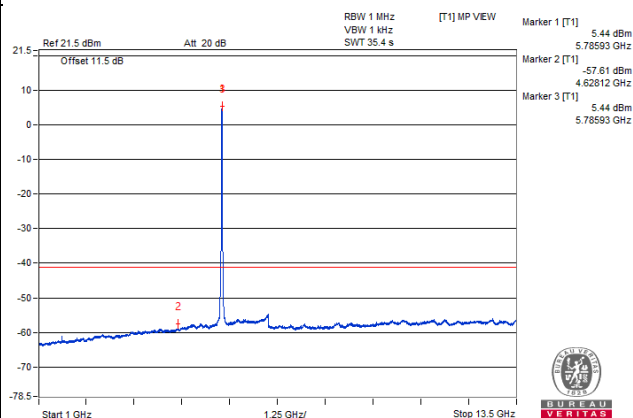
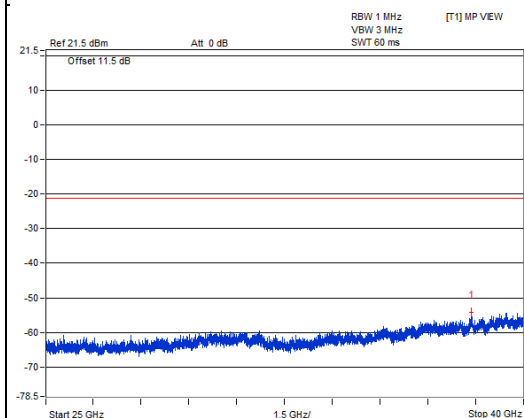
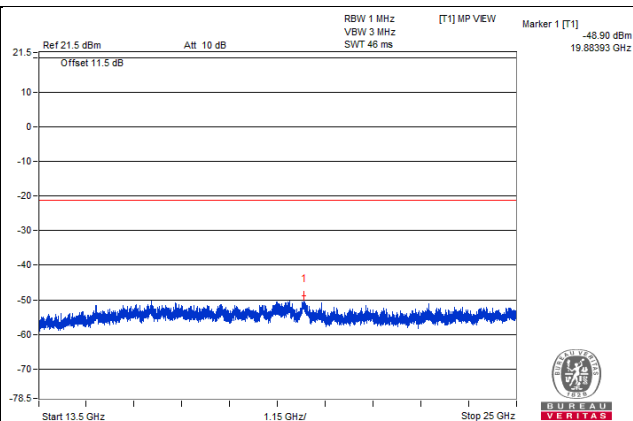
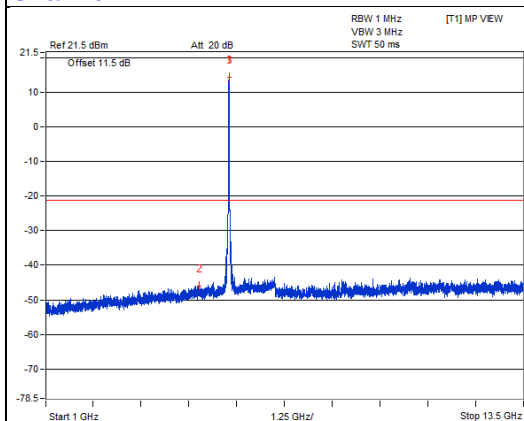
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3843.75	57.72 PK	74	-16.28	-48.29	-49.19	8.17	-37.54
2	3848.43	46.43 AV	54	-7.57	-59.91	-60.11	8.17	-48.83
3	7723.43	59.13 PK	74	-14.87	-48.86	-46.17	8.17	-36.13
4	7729.68	47.45 AV	54	-6.55	-58.57	-59.46	8.17	-47.81
5	11564.06	60.48 PK	74	-13.52	-46.04	-45.88	8.17	-34.78
6	11578.12	49.37 AV	54	-4.63	-56.93	-57.21	8.17	-45.89
7	#17361.12	54.27 PK	68.2	-13.93	-52.36	-51.99	8.17	-40.99

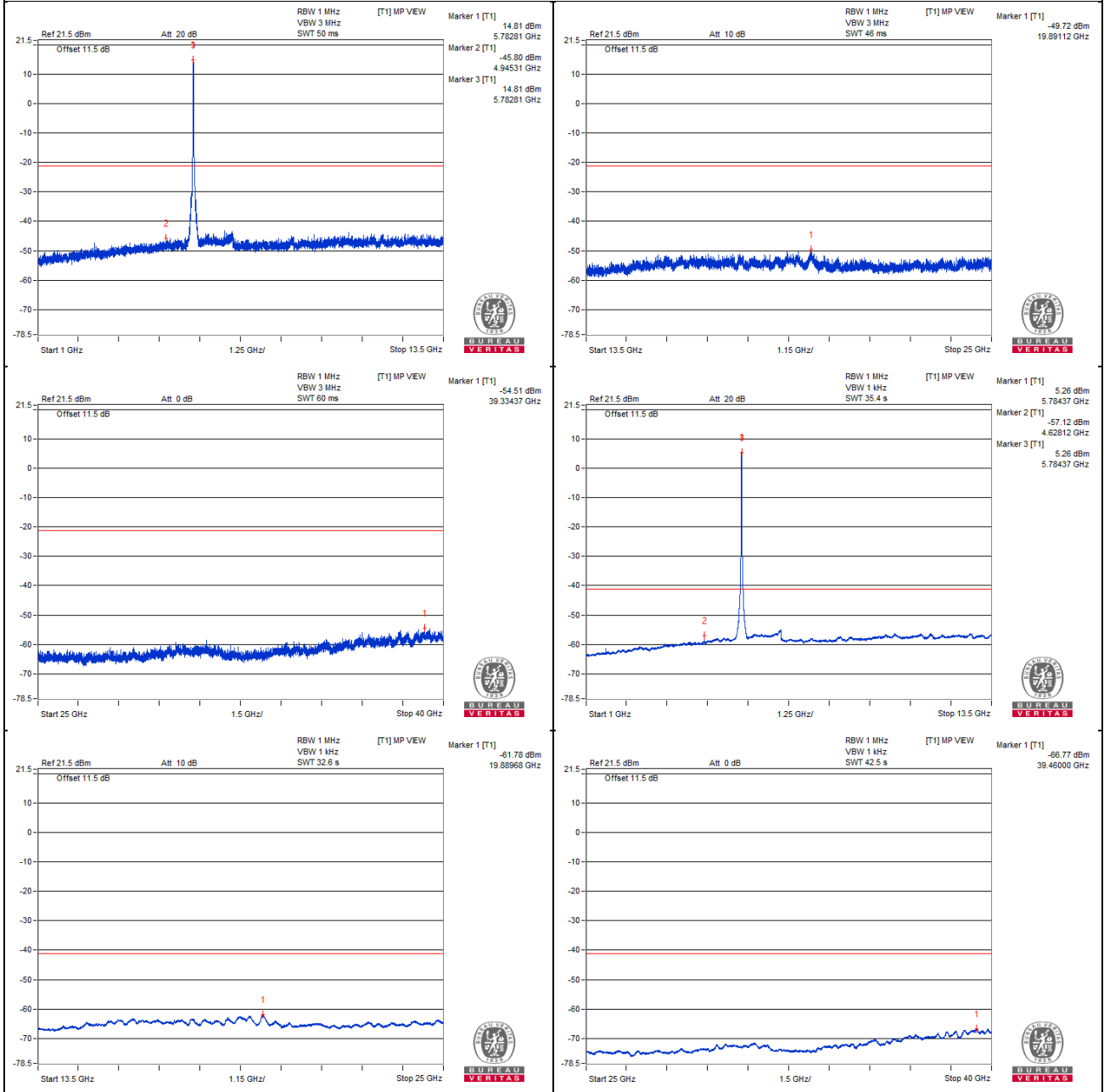
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0

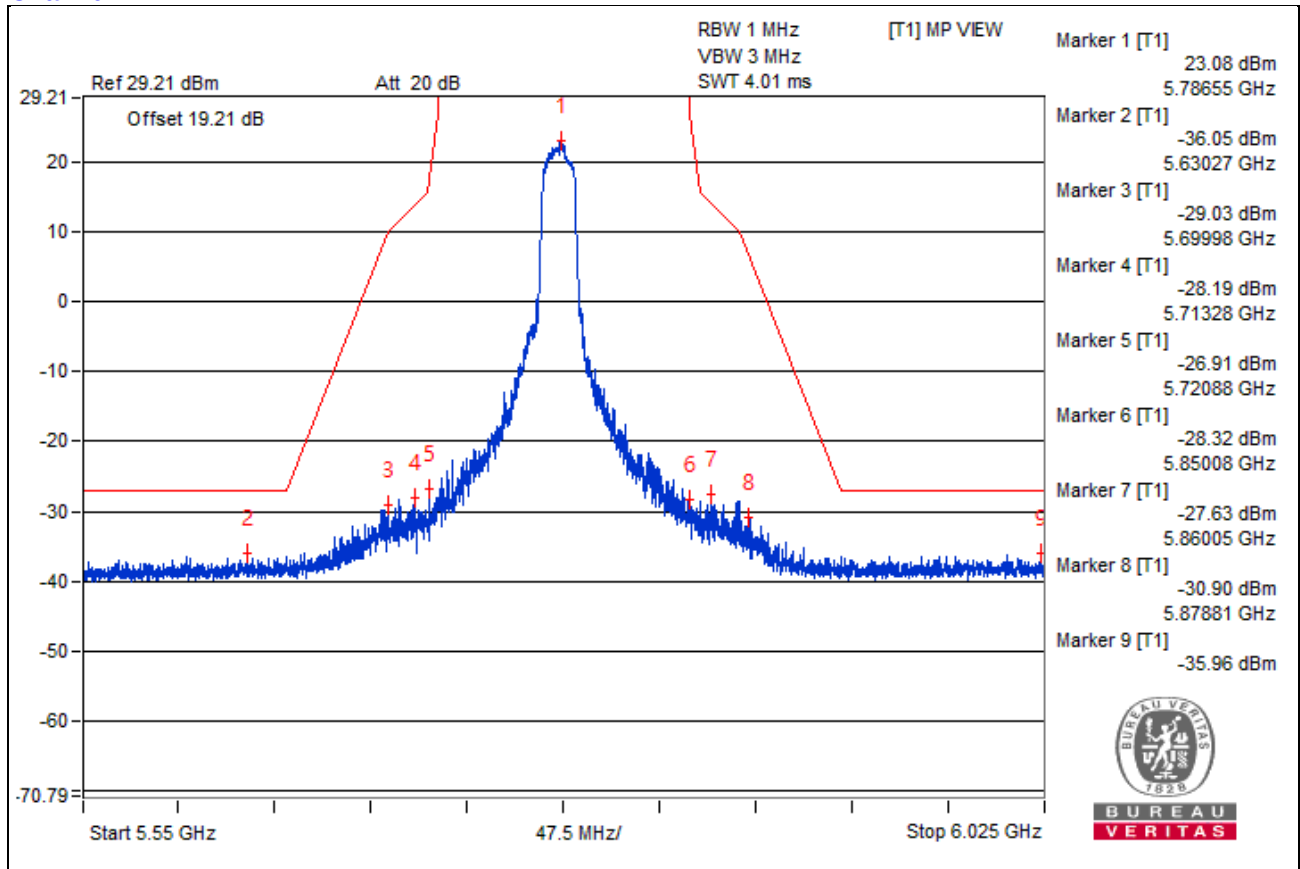


Chain 1

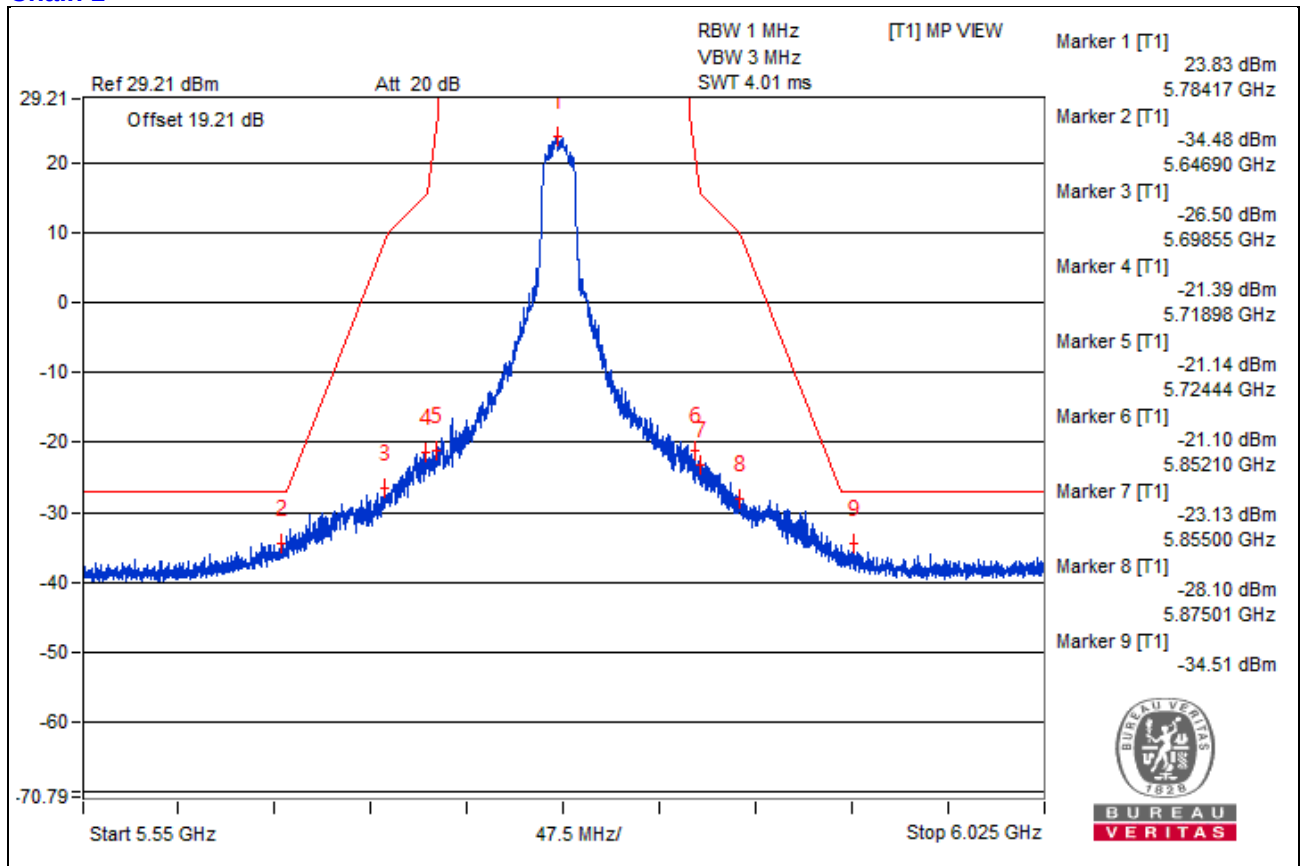


Bandedge table

Chain 0



Chain 1



802.11a – Channel 165

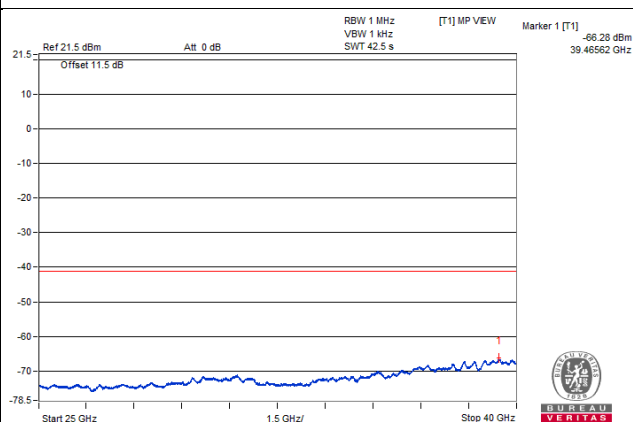
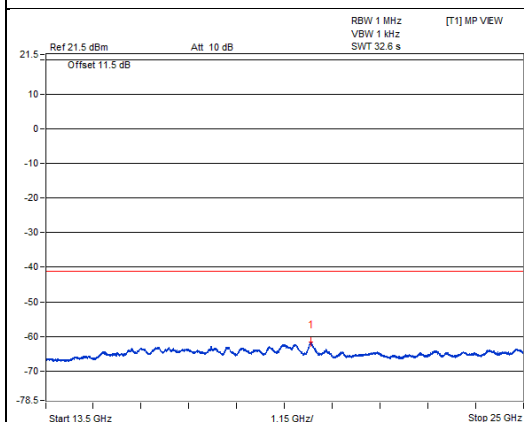
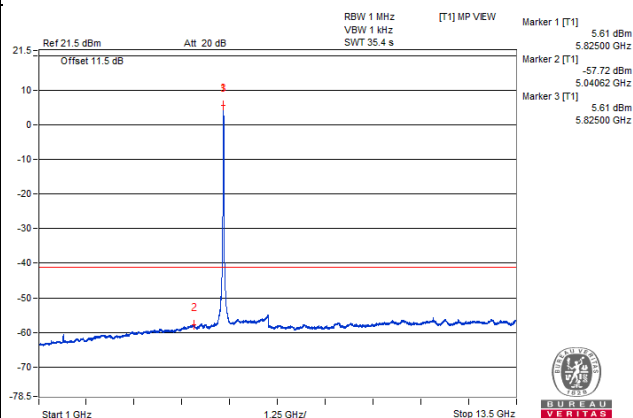
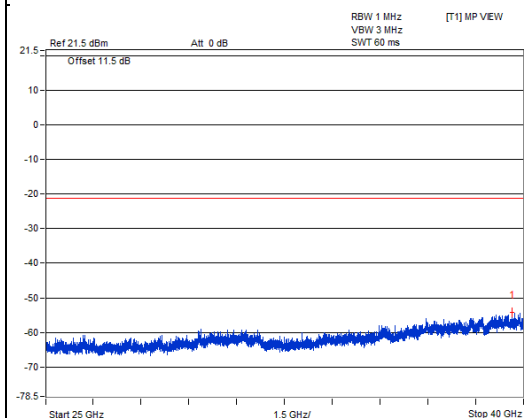
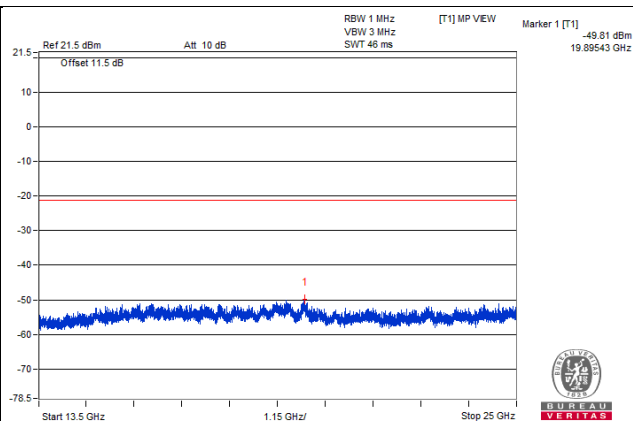
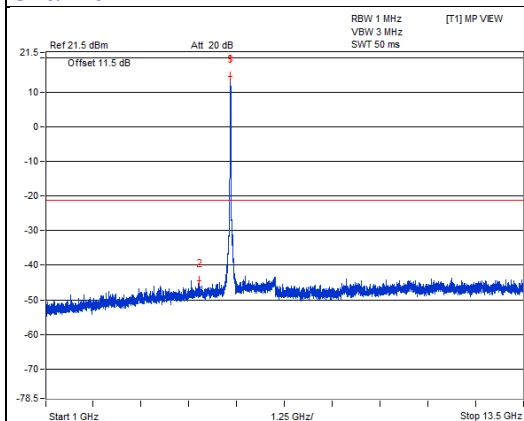
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3887.5	57.76 PK	74	-16.24	-48.4	-48.98	8.17	-37.50
2	3903.12	46.62 AV	54	-7.38	-59.8	-59.84	8.17	-48.64
3	#7784.37	58.97 PK	68.2	-9.23	-49.63	-46.03	8.17	-36.29
4	11637.5	62.1 PK	74	-11.9	-43.6	-45.24	8.17	-33.16
5	11643.75	50.1 AV	54	-3.9	-56.44	-56.25	8.17	-45.16
6	#17476.12	54.89 PK	68.2	-13.31	-51.26	-51.86	8.17	-40.37

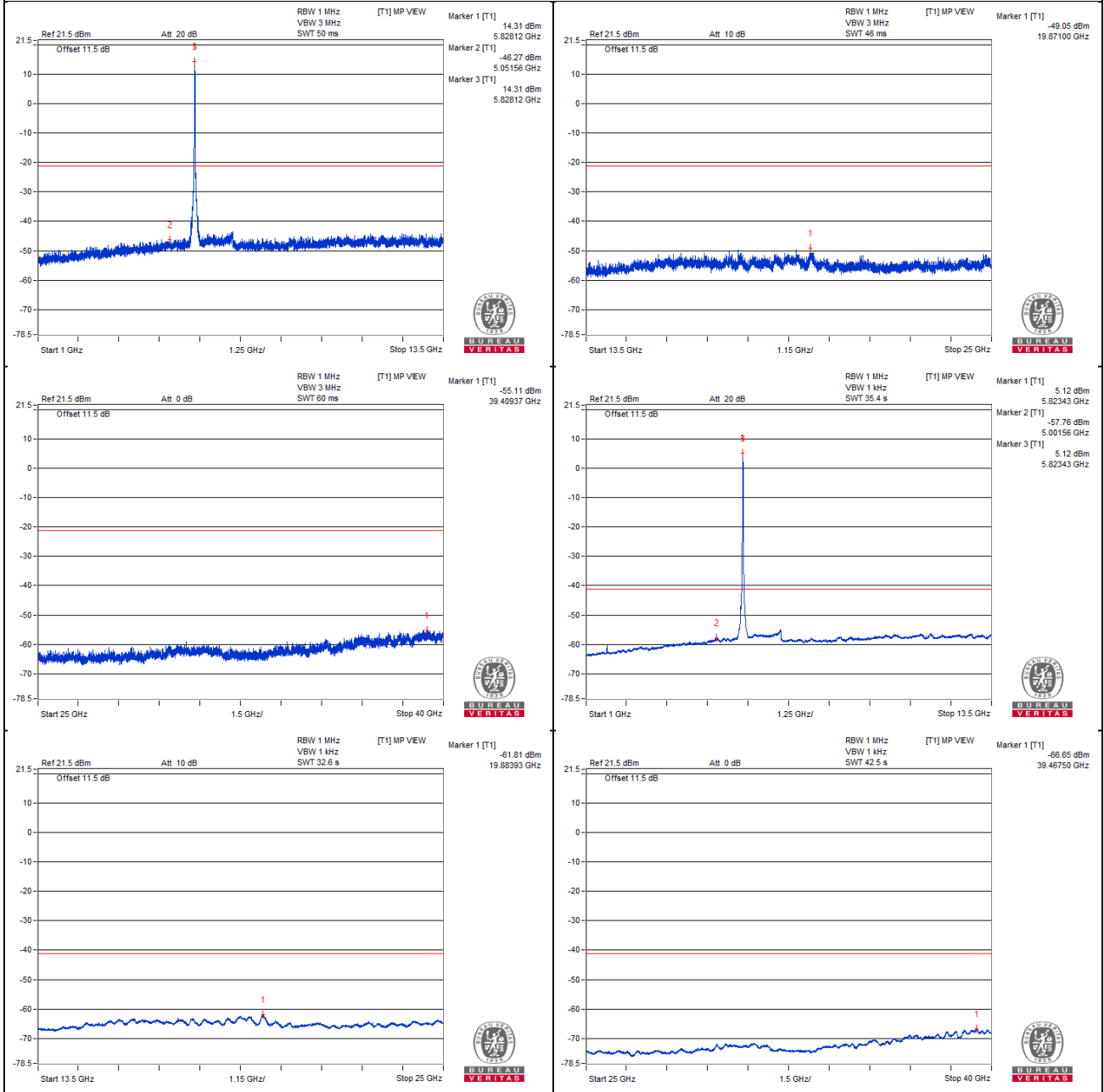
Remarks:

1. Margin value = Emission Level – Limit value
2. The other emission levels were very low against the limit.
3. " # " : The frequency is out of the restricted band.

Chain 0

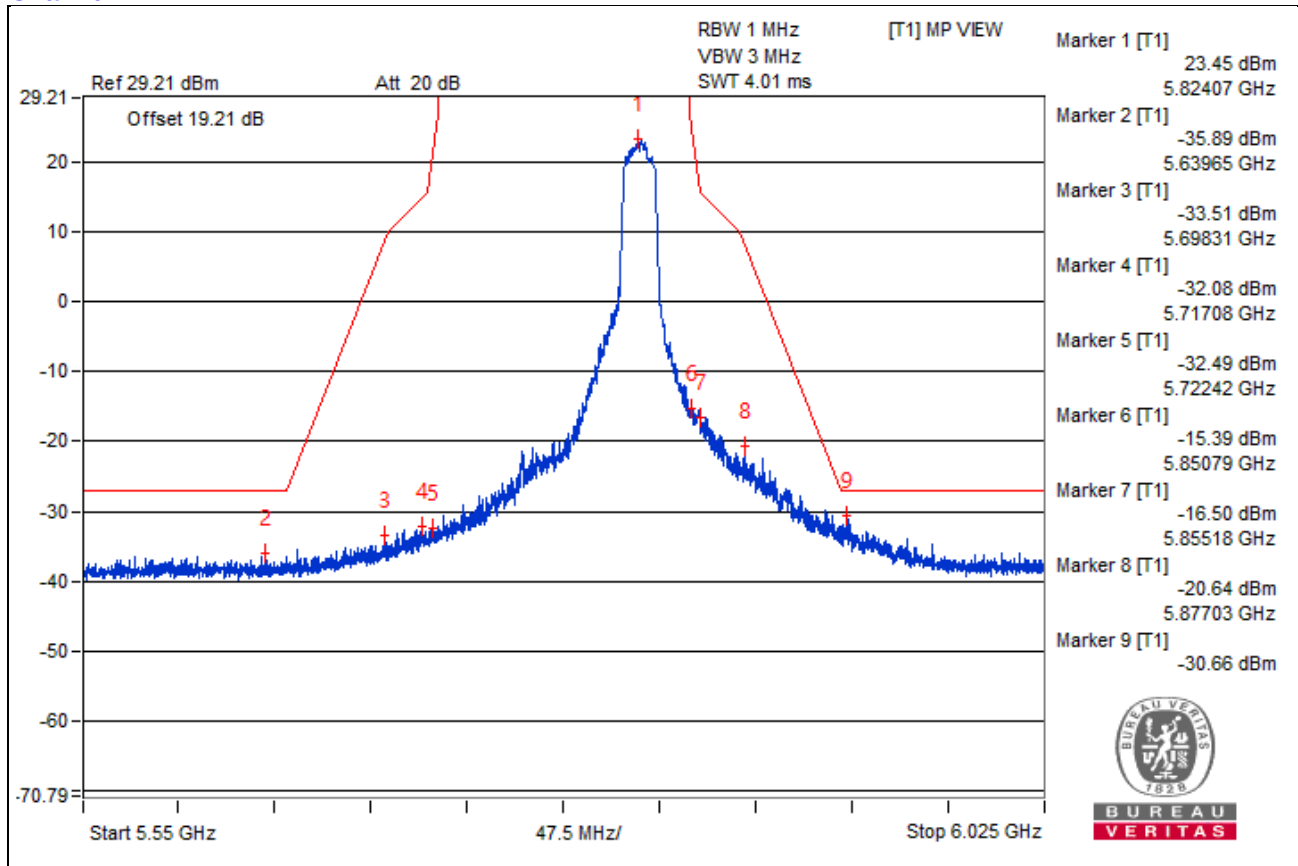


Chain 1



Bandedge table

Chain 0



Chain 1

