



FCC RF Test Report

APPLICANT : Qualcomm Atheros, Inc.
EQUIPMENT : 802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card
BRAND NAME : Qualcomm Atheros
MODEL NAME : QCNFA364A
FCC ID : PPD-QCNFA364AH
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was installed into Notebook Computer (Brand Name: Lenovo, Model Name: Lenovo Legion Y920-17IKB Laptop, 80YW) during test.

The product was received on Feb. 18, 2017 and testing was completed on Mar. 06, 2017. We, Sporton International (KunShan) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (KunShan) INC., the test report shall not be reproduced except in full.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR721810E	Rev. 01	Initial issue of report	Apr. 07, 2017



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	15.403(i)	6dB, 26dB and 99% Occupied Bandwidth	> 500kHz	Pass	1
3.1	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm	Pass	-
-	15.407(a)	Power Spectral Density	≤ 30 dBm/500kHz	Pass	1
3.2	15.407(b)	Unwanted Emissions	15.407(b) 15.209(a)	Pass	Under limit 5.27 dB at 909.790 MHz
-	15.207	AC Conducted Emission	15.207(a)	Pass	1
-	15.407(g)	Frequency Stability	Within Operation Band	Pass	1
3.3	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.4	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-
Remark 1: All conducted test items were leverage from module RF report which can refer to Report No. "RF150107E07B".					



1 General Description

1.1 Applicant

Qualcomm Atheros, Inc.

1700 Technology Drive, San Jose, CA 95110

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card
Brand Name	Qualcomm Atheros
Model Name	QCNFA364A
FCC ID	PPD-QCNFA364AH
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n/ac HT20/HT40/VHT20/VHT40 WLAN 5GHz 802.11a/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth v3.0+EDR, Bluetooth v4.0 LE, Bluetooth v4.1 LE
EUT Stage	Identical Prototype

Host Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	Lenovo Legion Y920-17IKB Laptop, 80YW
Applicant	Lenovo (Shanghai) Electronics Technology Co., Ltd. NO.68 BUILDING, 199 FENJU RD, China (Shanghai) Pilot Free Trade Zone, Shanghai, 200131 China
Manufacturer	Lenovo PC HK Limited 23/F, Lincoln House, Taikoo Place, 979 King's Road, Quarry Bay Hong Kong

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz		
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Type / Gain	Chain Port 1: PIFA Antenna with gain -2.47 dBi Chain Port 2: PIFA Antenna with gain -1.67 dBi		
Antenna Function Description		Chain Port 1	Chain Port 2
	802.11 a/n/ac SISO	V	V
	802.11 a/n/ac MIMO	V	V

Note: MIMO Chain Port 1+2 is a calculated result from sum of the power MIMO Chain Port 1 and MIMO Chain Port 2.



1.4 Modification of EUT

No modifications are made to the EUT during all test items.

1.5 Testing Location

Test Site	Sporton International (KunShan) INC.	
Test Site Location	No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
Test Site No.	Sporton Site No.	FCC Registration No.
	03CH03-KS	306251

Note: The test site complies with ANSI C63.4 2014 requirement.

1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
- ♦ ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5745-5825 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151 [*]	5755	159 [*]	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "#" were 802.11ac VHT80.

2.2 Test Mode

Final test mode of radiated spurious emissions is considering the modulation as below table.

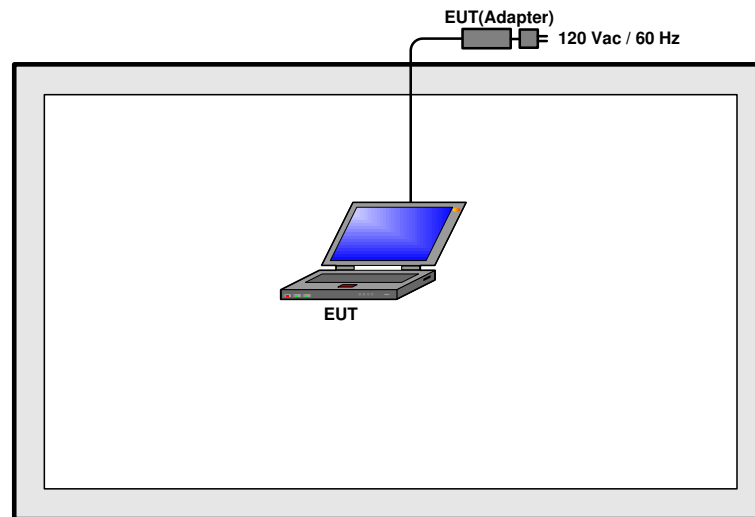
MIMO Antenna

Modulation	
802.11a	
802.11ac VHT20	
802.11ac VHT40	
802.11ac VHT80	

Ch. #		Band IV : 5745-5825 MHz		
		802.11a	802.11n HT20	802.11n HT40
L	Low	149	149	151
M	Middle	157	157	-
H	High	165	165	159

Ch. #		Band IV : 5745-5825 MHz		
		802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	149	151	-
M	Middle	157	-	155
H	High	165	159	-

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

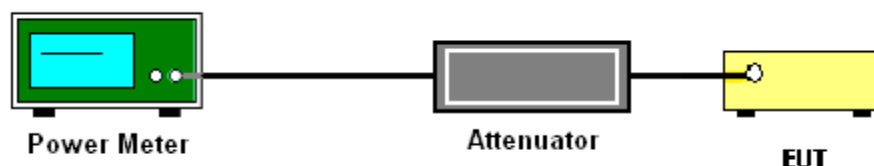
3.1.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

3.1.4 Test Setup





3.1.5 Test Result of Conducted Output Power

Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.24	0.23	13.32	14.16		30.00	30.00	-2.47	-1.67	Pass
11a	6Mbps	1	157	5785	0.24	0.23	16.26	16.39		30.00	30.00	-2.47	-1.67	Pass
11a	6Mbps	1	165	5825	0.24	0.23	16.49	16.54		30.00	30.00	-2.47	-1.67	Pass
HT20	MCS0	1	149	5745	0.22	0.28	13.15	14.52		30.00	30.00	-2.47	-1.67	Pass
HT20	MCS0	1	157	5785	0.22	0.28	16.06	16.36		30.00	30.00	-2.47	-1.67	Pass
HT20	MCS0	1	165	5825	0.22	0.28	16.30	16.49		30.00	30.00	-2.47	-1.67	Pass
HT40	MCS0	1	151	5755	0.47	0.48	10.83	11.94		30.00	30.00	-2.47	-1.67	Pass
HT40	MCS0	1	159	5795	0.47	0.48	16.25	16.41		30.00	30.00	-2.47	-1.67	Pass
VHT20	MCS0	1	149	5745	0.24	0.24	13.25	14.59		30.00	30.00	-2.47	-1.67	Pass
VHT20	MCS0	1	157	5785	0.24	0.24	16.15	16.72		30.00	30.00	-2.47	-1.67	Pass
VHT20	MCS0	1	165	5825	0.24	0.24	16.40	16.83		30.00	30.00	-2.47	-1.67	Pass
VHT40	MCS0	1	151	5755	0.44	0.48	10.98	12.01		30.00	30.00	-2.47	-1.67	Pass
VHT40	MCS0	1	159	5795	0.44	0.48	16.33	16.50		30.00	30.00	-2.47	-1.67	Pass
VHT80	MCS0	1	155	5775	0.91	0.88	10.50	11.40		30.00	30.00	-2.47	-1.67	Pass
11a	6Mbps	2	149	5745	0.22	0.21	13.54	14.75	17.20	30.00		-1.67		Pass
11a	6Mbps	2	157	5785	0.22	0.21	16.33	16.82	19.59	30.00		-1.67		Pass
11a	6Mbps	2	165	5825	0.22	0.21	16.67	16.92	19.81	30.00		-1.67		Pass
HT20	MCS0	2	149	5745	0.22	0.24	13.30	14.71	17.07	30.00		-1.67		Pass
HT20	MCS0	2	157	5785	0.22	0.24	16.13	16.76	19.47	30.00		-1.67		Pass
HT20	MCS0	2	165	5825	0.22	0.24	16.43	16.82	19.64	30.00		-1.67		Pass
HT40	MCS0	2	151	5755	0.47	0.47	11.02	12.13	14.62	30.00		-1.67		Pass
HT40	MCS0	2	159	5795	0.47	0.47	16.38	16.69	19.55	30.00		-1.67		Pass
VHT20	MCS0	2	149	5745	0.24	0.22	13.39	14.72	17.12	30.00		-1.67		Pass
VHT20	MCS0	2	157	5785	0.24	0.22	16.21	16.81	19.53	30.00		-1.67		Pass
VHT20	MCS0	2	165	5825	0.24	0.22	16.62	16.89	19.77	30.00		-1.67		Pass
VHT40	MCS0	2	151	5755	0.44	0.44	11.15	12.19	14.71	30.00		-1.67		Pass



VHT40	MCS0	2	159	5795	0.44	0.44	16.42	16.82	19.63	30.00	-1.67		Pass
VHT80	MCS0	2	155	5775	0.88	0.88	10.69	11.64	14.20	30.00	-1.67		Pass

3.2 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

3.2.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5.725-5.85 GHz band:
15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part 15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

EIRP (dBm)	Field Strength at 3m (dBμV/m)
-17	78.3
- 27	68.3

- (3) KDB 789033 D02 General UNII Test Procedures New Rules v01r03 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a

peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW $\geq$ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

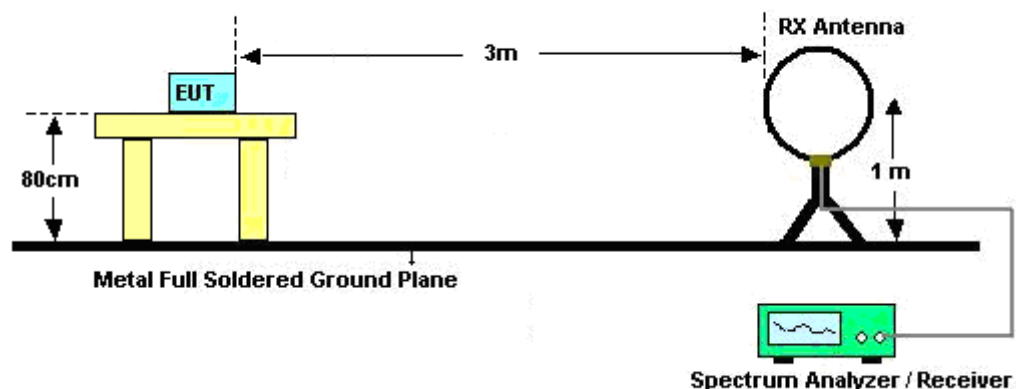
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

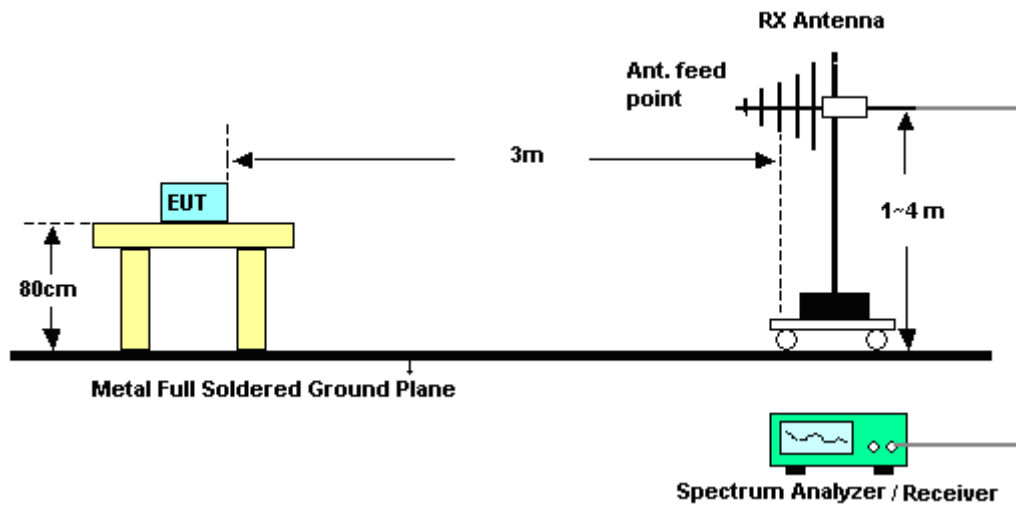
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.2.4 Test Setup

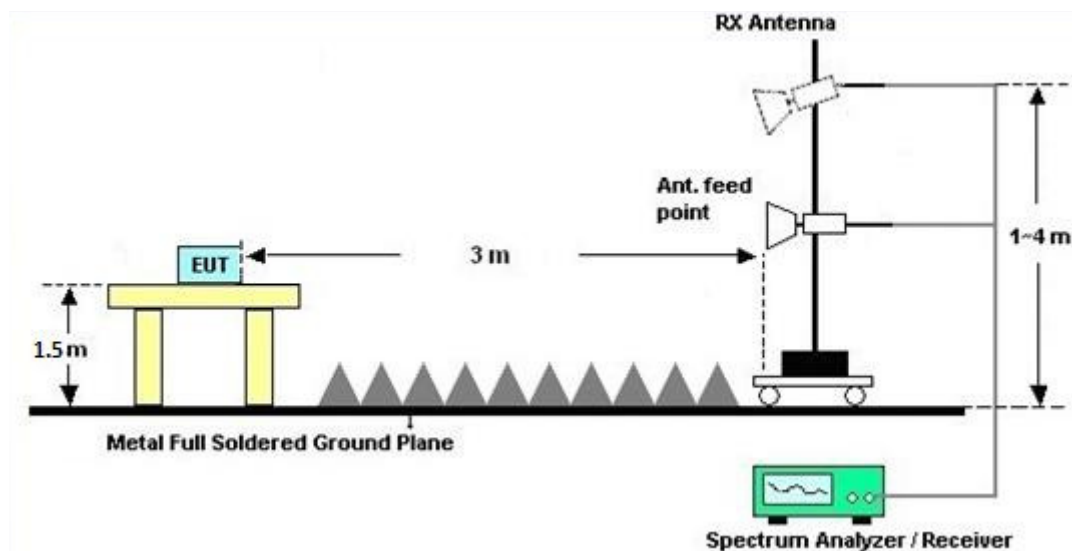
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.2.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A and B.

3.2.7 Duty Cycle

Please refer to Appendix C.

3.2.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix A and B.



3.3 Automatically Discontinue Transmission

3.3.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.4 Antenna Requirements

3.4.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.4.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

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

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

	Ant 1	Ant 2	for	for	Limit	Limit
	(dBi)	(dBi)	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	-2.47	-1.67	-1.67	0.95	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 19, 2017	Mar. 02, 2017	Jan. 19, 2018	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 19, 2017	Mar. 02, 2017	Jan. 19, 2018	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Aug. 09, 2016	Mar. 06, 2017	Aug. 08, 2017	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 22, 2016	Mar. 06, 2017	Apr. 21, 2017	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 23, 2016	Mar. 06, 2017	Nov. 22, 2017	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 16, 2016	Mar. 06, 2017	Apr. 15, 2017	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 16, 2016	Mar. 06, 2017	Apr. 15, 2017	Radiation (03CH03-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 15, 2017	Mar. 06, 2017	Feb. 14, 2018	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	187289	9kHz~1GHz	Aug. 09, 2016	Mar. 06, 2017	Aug. 08, 2017	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35-H G	1887435	18GHz~40GHz	Oct. 13, 2016	Mar. 06, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 13, 2016	Mar. 06, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 06, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 06, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 06, 2017	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required



5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6dB
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Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7dB
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Appendix A. Radiated Spurious Emission

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5649.6	46.03	-22.27	68.3	42.06	32.01	8.19	36.23	386	266	P	H
		5697.6	48.42	-55.11	103.53	44.4	32.02	8.25	36.25	386	266	P	H
		5713.2	50.87	-58.13	109	46.83	32.03	8.28	36.27	386	266	P	H
		5722.4	51.7	-64.67	116.37	47.63	32.04	8.31	36.28	386	266	P	H
	*	5746	103.21	-	-	99.11	32.05	8.34	36.29	386	266	P	H
		5746	96.83	-	-	92.73	32.05	8.34	36.29	386	266	A	H
		5648	46.79	-21.51	68.3	42.85	32	8.16	36.22	315	188	P	V
		5697.2	49.44	-53.8	103.24	45.42	32.02	8.25	36.25	315	188	P	V
		5718.4	50.9	-59.55	110.45	46.83	32.04	8.31	36.28	315	188	P	V
		5724	55.46	-64.56	120.02	51.39	32.04	8.31	36.28	315	188	P	V
	*	5748	106.03	-	-	101.93	32.05	8.34	36.29	315	188	P	V
		5748	99.04	-	-	94.94	32.05	8.34	36.29	315	188	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5640.4	46.73	-21.57	68.3	42.79	32	8.16	36.22	386	266	P	H
		5661.2	46.77	-29.85	76.62	42.8	32.01	8.19	36.23	386	266	P	H
		5719.6	46.28	-64.51	110.79	42.21	32.04	8.31	36.28	386	266	P	H
		5724.4	45.55	-75.38	120.93	41.48	32.04	8.31	36.28	386	266	P	H
	*	5780	106.44	-	-	102.29	32.06	8.4	36.31	386	266	P	H
		5780	99.76	-	-	95.61	32.06	8.4	36.31	386	266	A	H
		5852.8	46.16	-69.76	115.92	41.94	32.09	8.49	36.36	386	266	P	H
		5869.2	45.99	-60.93	106.92	41.75	32.1	8.51	36.37	386	266	P	H
		5921.6	46.43	-24.38	70.81	42.14	32.12	8.59	36.42	386	266	P	H
		5943.2	46.34	-21.96	68.3	42.04	32.12	8.61	36.43	386	266	P	H
		5636	46.38	-21.92	68.3	42.44	32	8.16	36.22	315	188	P	V
		5689.2	46.71	-50.63	97.34	42.69	32.02	8.25	36.25	315	188	P	V
		5717.2	46.76	-63.36	110.12	42.72	32.03	8.28	36.27	315	188	P	V
		5722	45.85	-69.61	115.46	41.78	32.04	8.31	36.28	315	188	P	V
	*	5784	108.04	-	-	103.89	32.06	8.4	36.31	315	188	P	V
		5784	101.5	-	-	97.35	32.06	8.4	36.31	315	188	A	V
		5850.4	47.07	-74.32	121.39	42.85	32.09	8.49	36.36	315	188	P	V
		5867.6	46.31	-61.06	107.37	42.07	32.1	8.51	36.37	315	188	P	V
		5895.2	46.93	-43.38	90.31	42.67	32.11	8.55	36.4	315	188	P	V
		5935.2	46.46	-21.84	68.3	42.17	32.12	8.59	36.42	315	188	P	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5822	104.97	-	-	100.77	32.08	8.47	36.35	298	227	P	H
		5822	98.07	-	-	93.87	32.08	8.47	36.35	298	227	A	H
		5850.8	50.77	-69.71	120.48	46.55	32.09	8.49	36.36	298	227	P	H
		5856	49.67	-60.95	110.62	45.43	32.1	8.51	36.37	298	227	P	H
		5878.4	46.88	-55.89	102.77	42.63	32.1	8.53	36.38	298	227	P	H
		5937.2	45.82	-22.48	68.3	41.53	32.12	8.59	36.42	298	227	P	H
	*	5828	109.16	-	-	104.96	32.08	8.47	36.35	317	187	P	V
		5828	101.9	-	-	97.7	32.08	8.47	36.35	317	187	A	V
		5852.4	53.49	-63.34	116.83	49.27	32.09	8.49	36.36	317	187	P	V
		5858	52.3	-57.76	110.06	48.06	32.1	8.51	36.37	317	187	P	V
		5878.4	47.9	-54.87	102.77	43.65	32.1	8.53	36.38	317	187	P	V
		5983.2	45.44	-22.86	68.3	41.12	32.13	8.65	36.46	317	187	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	41.64	-32.36	74	47.46	38.59	12.57	56.98	100	360	P	H
		11490	41.93	-32.07	74	47.75	38.59	12.57	56.98	100	0	P	V
802.11a CH 157 5785MHz		11570	41.32	-32.68	74	47.09	38.75	12.63	57.15	100	360	P	H
		11570	41.34	-32.66	74	47.11	38.75	12.63	57.15	100	0	P	V
802.11a CH 165 5825MHz		11650	42.33	-31.67	74	48.05	38.9	12.67	57.29	100	360	P	H
		11650	42.97	-31.03	74	48.69	38.9	12.67	57.29	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 149 5745MHz		5608	48.34	-19.96	68.3	44.45	31.99	8.1	36.2	390	267	P	H
		5690	47	-50.93	97.93	42.98	32.02	8.25	36.25	390	267	P	H
		5719.6	49.76	-61.03	110.79	45.69	32.04	8.31	36.28	390	267	P	H
		5723.6	53.83	-65.28	119.11	49.76	32.04	8.31	36.28	390	267	P	H
	*	5748	103.55	-	-	99.45	32.05	8.34	36.29	390	267	P	H
		5748	96.66	-	-	92.56	32.05	8.34	36.29	390	267	A	H
		5649.6	47.08	-21.22	68.3	43.11	32.01	8.19	36.23	313	189	P	V
		5698.4	49.38	-54.74	104.12	45.36	32.02	8.25	36.25	313	189	P	V
		5719.6	50.51	-60.28	110.79	46.44	32.04	8.31	36.28	313	189	P	V
		5723.6	57.43	-61.68	119.11	53.36	32.04	8.31	36.28	313	189	P	V
	*	5742	105.87	-	-	101.77	32.05	8.34	36.29	313	189	P	V
		5742	98.5	-	-	94.4	32.05	8.34	36.29	313	189	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 157 5785MHz		5614	45.97	-22.33	68.3	42.08	31.99	8.1	36.2	390	267	P	H
		5679.6	45.96	-44.28	90.24	41.96	32.02	8.22	36.24	390	267	P	H
		5711.6	46.34	-62.21	108.55	42.3	32.03	8.28	36.27	390	267	P	H
		5720.1	45.58	-65.55	111.13	41.51	32.04	8.31	36.28	390	267	P	H
	*	5788	105.24	-	-	101.06	32.07	8.43	36.32	390	267	P	H
		5788	99.06	-	-	94.88	32.07	8.43	36.32	390	267	A	H
		5852	45.95	-71.79	117.74	41.73	32.09	8.49	36.36	390	267	P	H
		5874.8	45.69	-59.67	105.36	41.44	32.1	8.53	36.38	390	267	P	H
		5894.8	46.84	-43.77	90.61	42.58	32.11	8.55	36.4	390	267	P	H
		5998.4	46.44	-21.86	68.3	42.11	32.13	8.67	36.47	390	267	P	H
		5641.2	46.41	-21.89	68.3	42.47	32	8.16	36.22	313	189	P	V
		5688.8	47.73	-49.31	97.04	43.71	32.02	8.25	36.25	313	189	P	V
		5713.6	47.17	-61.94	109.11	43.13	32.03	8.28	36.27	313	189	P	V
		5723.6	46.47	-72.64	119.11	42.4	32.04	8.31	36.28	313	189	P	V
	*	5782	107.83	-	-	103.68	32.06	8.4	36.31	313	189	P	V
		5782	100.92	-	-	96.77	32.06	8.4	36.31	313	189	A	V
		5850.4	46.63	-74.76	121.39	42.41	32.09	8.49	36.36	313	189	A	V
		5872.8	46.94	-58.98	105.92	42.69	32.1	8.53	36.38	313	189	P	V
		5876.4	46.94	-57.32	104.26	42.69	32.1	8.53	36.38	313	189	P	V
		5962.8	46.38	-21.92	68.3	42.07	32.12	8.63	36.44	313	189	P	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 165 5825MHz	*	5826	105.64	-	-	101.44	32.08	8.47	36.35	390	267	P	H
		5826	98.76	-	-	94.56	32.08	8.47	36.35	390	267	A	H
		5850.8	53.35	-67.13	120.48	49.13	32.09	8.49	36.36	390	267	P	H
		5873.2	51.22	-54.58	105.8	46.97	32.1	8.53	36.38	390	267	P	H
		5875.2	47.25	-57.9	105.15	43	32.1	8.53	36.38	390	267	P	H
		5927.2	46.27	-22.03	68.3	41.98	32.12	8.59	36.42	390	267	P	H
	*	5822	107.13	-	-	102.93	32.08	8.47	36.35	313	189	P	V
		5822	100.49	-	-	96.29	32.08	8.47	36.35	313	189	A	V
		5850.8	52.47	-68.01	120.48	48.25	32.09	8.49	36.36	313	189	P	V
		5857.6	51.49	-58.68	110.17	47.25	32.1	8.51	36.37	313	189	P	V
		5881.2	47.59	-53.1	100.69	43.34	32.1	8.53	36.38	313	189	P	V
		5928.8	46.66	-21.64	68.3	42.37	32.12	8.59	36.42	313	189	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20		11490	41.55	-32.45	74	47.37	38.59	12.57	56.98	100	360	P	H
CH 149		11490	40.93	-33.07	74	46.75	38.59	12.57	56.98	100	0	P	V
5745MHz													
802.11ac VHT20		11570	42.21	-31.79	74	47.98	38.75	12.63	57.15	100	360	P	H
CH 157		11570	42.33	-31.67	74	48.1	38.75	12.63	57.15	100	1	P	V
5785MHz													
802.11ac VHT20		11650	42.46	-31.54	74	48.18	38.9	12.67	57.29	100	360	P	H
CH 165		11650	40.93	-33.07	74	46.65	38.9	12.67	57.29	100	0	P	V
5825MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		5633.6	51.77	-16.53	68.3	47.83	32	8.16	36.22	327	107	P	H
		5698.4	54.83	-49.29	104.12	50.81	32.02	8.25	36.25	327	107	P	H
		5719.9	57.02	-53.85	110.87	52.95	32.04	8.31	36.28	327	107	P	H
		5724.8	63.16	-58.68	121.84	59.09	32.04	8.31	36.28	327	107	P	H
	*	5760	99.72	-	-	95.6	32.05	8.37	36.3	327	107	P	H
		5760	92.43	-	-	88.31	32.05	8.37	36.3	327	107	A	H
		5851.2	46.63	-72.93	119.56	42.41	32.09	8.49	36.36	327	107	P	H
		5863.2	46.34	-62.26	108.6	42.1	32.1	8.51	36.37	327	107	P	H
		5892	47.12	-45.56	92.68	42.86	32.11	8.55	36.4	327	107	P	H
		5943.2	47.74	-20.56	68.3	43.44	32.12	8.61	36.43	327	107	P	H
		5630	52.69	-15.61	68.3	48.78	31.99	8.13	36.21	298	189	P	V
		5650.4	50.2	-18.4	68.6	46.23	32.01	8.19	36.23	298	189	P	V
		5719.6	54.48	-56.31	110.79	50.41	32.04	8.31	36.28	298	189	P	V
		5721.6	55.43	-59.12	114.55	51.36	32.04	8.31	36.28	298	189	P	V
	*	5760	99.83	-	-	95.71	32.05	8.37	36.3	298	189	P	V
		5760	92.53	-	-	88.41	32.05	8.37	36.3	298	189	A	V
		5850.4	48.6	-72.79	121.39	44.38	32.09	8.49	36.36	298	189	P	V
		5856	47.57	-63.05	110.62	43.33	32.1	8.51	36.37	298	189	P	V
		5885.6	48.72	-48.71	97.43	44.47	32.1	8.53	36.38	298	189	P	V
		5932.8	46.16	-22.14	68.3	41.87	32.12	8.59	36.42	298	189	P	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 159 5795MHz		5648.8	50.43	-17.87	68.3	46.49	32	8.16	36.22	324	113	P	H
		5669.6	49.8	-33.04	82.84	45.8	32.02	8.22	36.24	324	113	P	H
		5712	57.14	-51.52	108.66	53.1	32.03	8.28	36.27	324	113	P	H
		5724.4	49.1	-71.83	120.93	45.03	32.04	8.31	36.28	324	113	P	H
	*	5806	103.98	-	-	99.78	32.08	8.45	36.33	324	113	P	H
		5806	97.4	-	-	93.2	32.08	8.45	36.33	324	113	A	H
		5850.01	50.7	-71.58	122.28	46.48	32.09	8.49	36.36	324	113	P	H
		5857.2	59.33	-50.95	110.28	55.09	32.1	8.51	36.37	324	113	P	H
		5889.6	52.47	-41.99	94.46	48.21	32.11	8.55	36.4	324	113	P	H
		5988	49.13	-19.17	68.3	44.81	32.13	8.65	36.46	324	113	P	H
		5622.8	46.71	-21.59	68.3	42.8	31.99	8.13	36.21	323	189	P	V
		5692.4	47.98	-51.72	99.7	43.96	32.02	8.25	36.25	323	189	P	V
		5719.6	48.03	-62.76	110.79	43.96	32.04	8.31	36.28	323	189	P	V
		5724.8	55.76	-66.08	121.84	51.69	32.04	8.31	36.28	323	189	P	V
	*	5798	104.58	-	-	100.4	32.07	8.43	36.32	323	189	P	V
		5798	97.19	-	-	93.01	32.07	8.43	36.32	323	189	A	V
		5850.8	50.74	-69.74	120.48	46.52	32.09	8.49	36.36	323	189	P	V
		5856.4	49.94	-60.57	110.51	45.7	32.1	8.51	36.37	323	189	P	V
		5898	54.51	-33.73	88.24	50.25	32.11	8.55	36.4	323	189	P	V
		5994	46.23	-22.07	68.3	41.9	32.13	8.67	36.47	323	189	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40		11510	41.39	-32.61	74	47.23	38.6	12.58	57.02	100	360	P	H
CH 151 5755MHz		11510	41.24	-32.76	74	47.08	38.6	12.58	57.02	100	0	P	V
802.11ac VHT40		11590	42.06	-31.94	74	47.82	38.79	12.64	57.19	100	360	P	H
CH 159 5795MHz		11590	41.5	-32.5	74	47.26	38.79	12.64	57.19	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5642.4	51.85	-16.45	68.3	47.91	32	8.16	36.22	352	265	P	H
		5696	55.24	-47.11	102.35	51.22	32.02	8.25	36.25	352	265	P	H
		5718.8	56.08	-54.48	110.56	52.01	32.04	8.31	36.28	352	265	P	H
		5724	57.49	-62.53	120.02	53.42	32.04	8.31	36.28	352	265	P	H
	*	5782	95.66	-	-	91.51	32.06	8.4	36.31	352	265	P	H
		5782	88.95	-	-	84.8	32.06	8.4	36.31	352	265	A	H
		5852.8	54.32	-61.6	115.92	50.1	32.09	8.49	36.36	352	265	P	H
		5855.6	54.21	-56.52	110.73	49.97	32.1	8.51	36.37	352	265	P	H
		5877.6	53	-50.37	103.37	48.75	32.1	8.53	36.38	352	265	P	H
		5930.4	47.22	-21.08	68.3	42.93	32.12	8.59	36.42	352	265	P	H
		5638.4	49.9	-18.4	68.3	45.96	32	8.16	36.22	313	189	P	V
		5694	56.43	-44.45	100.88	52.41	32.02	8.25	36.25	313	189	P	V
		5716.4	54.76	-55.13	109.89	50.72	32.03	8.28	36.27	313	189	P	V
		5723.2	57.97	-60.23	118.2	53.9	32.04	8.31	36.28	313	189	P	V
	*	5772	96.56	-	-	92.41	32.06	8.4	36.31	313	189	P	V
		5772	90.01	-	-	85.86	32.06	8.4	36.31	313	189	A	V
		5851.6	52.75	-65.9	118.65	48.53	32.09	8.49	36.36	313	189	P	V
		5865.2	53.69	-54.35	108.04	49.45	32.1	8.51	36.37	313	189	P	V
		5879.2	53.04	-49.14	102.18	48.79	32.1	8.53	36.38	313	189	P	V
		5977.6	47.58	-20.72	68.3	43.26	32.13	8.65	36.46	313	189	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80		11550	41.07	-32.93	74	46.86	38.71	12.62	57.12	100	360	P	H
CH 155 5775MHz		11550	40.93	-33.07	74	46.72	38.71	12.62	57.12	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11ac VHT40 (LF @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 LF		33.88	25.93	-14.07	40	31.88	25.84	0.7	32.49	-	-	P	H
		312.27	37.35	-8.65	46	47.87	19.59	2.18	32.29	100	0	P	H
		359.8	28.25	-17.75	46	36.53	21.67	2.33	32.28	-	-	P	H
		455.83	27.23	-18.77	46	31.5	25.24	2.66	32.17	-	-	P	H
		706.09	28.49	-17.51	46	30.53	26.69	3.36	32.09	-	-	P	H
		900.09	31.62	-14.38	46	30.88	28.52	3.85	31.63	-	-	P	H
		30	34.31	-5.69	40	39.07	27.2	0.65	32.61	-	-	P	V
		152.22	28.23	-15.27	43.5	41.35	17.82	1.49	32.43	-	-	P	V
		312.27	35.18	-10.82	46	45.7	19.59	2.18	32.29	-	-	P	V
		455.83	34.98	-11.02	46	39.25	25.24	2.66	32.17	-	-	P	V
		647.89	34.17	-11.83	46	36.95	25.65	3.2	31.63	-	-	P	V
		909.79	40.73	-5.27	46	39.75	28.69	3.87	31.58	100	20	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

**Note symbol**

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	说
P/A	P eak or A verage
H/V	H orizontal or V ertical

A calculation example for radiated spurious emission is shown as below:

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

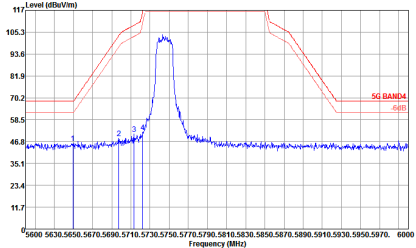
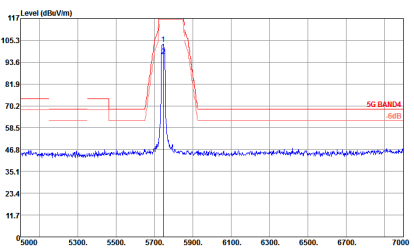
Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix B. Radiated Spurious Emission Plots

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m																																																																																																																			
ANT	802.11a CH149 5745MHz																																																																																																																			
1+2	Horizontal	Fundamental																																																																																																																		
Peak	 Site : 83CH03-KS Condition : SG BAND4 3m HF ANT-2015813-91280 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5649.60</td><td>46.03</td><td>-22.27</td><td>68.30</td><td>42.06</td><td>32.01</td><td>8.19</td><td>36.23</td><td>386</td><td>266</td><td>Peak HORIZONTAL</td></tr><tr><td>2</td><td>5697.60</td><td>48.42</td><td>-55.11</td><td>103.53</td><td>44.48</td><td>32.02</td><td>8.25</td><td>36.25</td><td>386</td><td>266</td><td>Peak HORIZONTAL</td></tr><tr><td>3</td><td>5713.20</td><td>50.87</td><td>-58.13</td><td>109.00</td><td>46.83</td><td>32.03</td><td>8.28</td><td>36.27</td><td>386</td><td>266</td><td>Peak HORIZONTAL</td></tr><tr><td>4</td><td>5722.40</td><td>51.70</td><td>-64.07</td><td>116.37</td><td>47.63</td><td>32.04</td><td>8.31</td><td>36.28</td><td>386</td><td>266</td><td>Peak HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg		1	5649.60	46.03	-22.27	68.30	42.06	32.01	8.19	36.23	386	266	Peak HORIZONTAL	2	5697.60	48.42	-55.11	103.53	44.48	32.02	8.25	36.25	386	266	Peak HORIZONTAL	3	5713.20	50.87	-58.13	109.00	46.83	32.03	8.28	36.27	386	266	Peak HORIZONTAL	4	5722.40	51.70	-64.07	116.37	47.63	32.04	8.31	36.28	386	266	Peak HORIZONTAL	 Site : 83CH03-KS Condition : SG BAND4 3m HF ANT-2015813-91280 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5745.00</td><td>103.21</td><td>-</td><td>9.11</td><td>32.05</td><td>8.34</td><td>36.29</td><td>386</td><td>266</td><td>Peak HORIZONTAL</td></tr><tr><td>2</td><td>5746.00</td><td>96.83</td><td>-</td><td>2.73</td><td>32.05</td><td>8.34</td><td>36.29</td><td>386</td><td>266</td><td>Average HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg		1	5745.00	103.21	-	9.11	32.05	8.34	36.29	386	266	Peak HORIZONTAL	2	5746.00	96.83	-	2.73	32.05	8.34	36.29	386	266	Average HORIZONTAL
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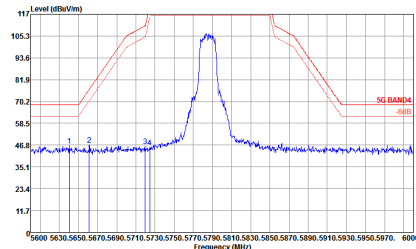
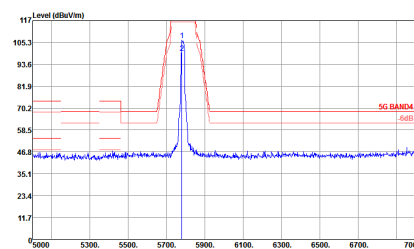
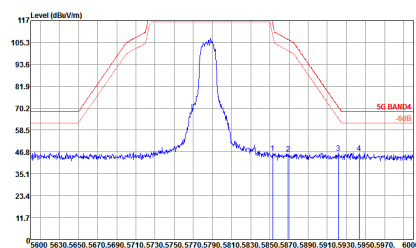


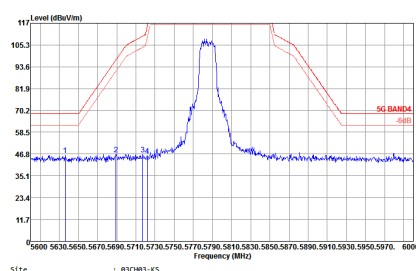
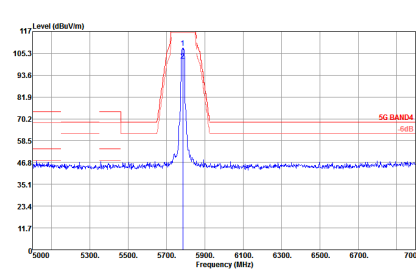
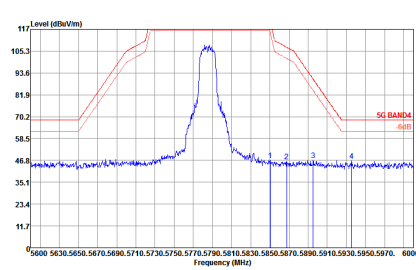
FCC Test Report

Report No. : FR721810E

WIFI	Band 4 5725~5850MHz Band Edge @ 3m																																																																																																													
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WIFI	Band 4 5725~5850MHz Band Edge @ 3m																																																																																																																																													
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FCC Test Report

Report No. : FR721810E

WIFI		Band 4 5725~5850MHz Band Edge @ 3m																																																																																																																																																		
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Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

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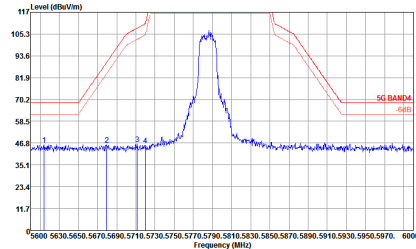
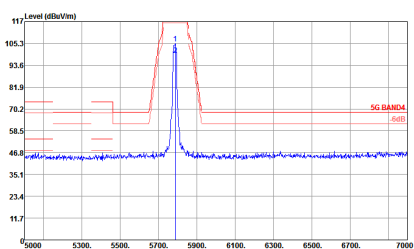
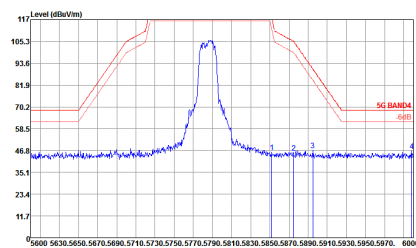


FCC Test Report

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3	5719.60	50.51	-40.28	110.79	46.44	32.00	8.31	36.28	313 189 Peak VERTICAL																																																																																							
4	5723.60	57.43	-41.08	119.11	53.36	32.04	8.31	36.28	313 189 Peak VERTICAL																																																																																							
Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																								
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg																																																																																									
1	5742.00	105.87	101.77	32.05	8.34	36.20	313	189 Peak VERTICAL																																																																																								
2	5742.00	90.50	94.40	32.05	8.34	36.20	313	189 Average VERTICAL																																																																																								



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	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																																							
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		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																																																								
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1	5641.20	46.41	-21.89	68.30	42.47	32.00	8.16	36.22	313	189 Peak	VERTICAL																																																																																																																									
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Peak	Site : 83CH03-K5 Condition : 5G BAND4 3m HF ANT-2015813-91200 HORIZONTAL : dBu:1000.000MHz VSW:3000.000kHz SMT:Auto <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5850.00</td><td>53.35</td><td>-67.13</td><td>120.48</td><td>49.13</td><td>32.09</td><td>8.49</td><td>36.36</td><td>390</td><td>267 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>5873.20</td><td>51.32</td><td>-54.50</td><td>105.00</td><td>46.27</td><td>32.10</td><td>8.53</td><td>36.38</td><td>390</td><td>267 Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>5875.20</td><td>47.25</td><td>-57.90</td><td>105.15</td><td>43.00</td><td>32.10</td><td>8.53</td><td>36.38</td><td>390</td><td>267 Peak</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>5927.20</td><td>46.27</td><td>-22.03</td><td>60.30</td><td>41.90</td><td>32.12</td><td>8.59</td><td>36.42</td><td>390</td><td>267 Peak</td><td>HORIZONTAL</td></tr></table>		Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5850.00	53.35	-67.13	120.48	49.13	32.09	8.49	36.36	390	267 Peak	HORIZONTAL	2	5873.20	51.32	-54.50	105.00	46.27	32.10	8.53	36.38	390	267 Peak	HORIZONTAL	3	5875.20	47.25	-57.90	105.15	43.00	32.10	8.53	36.38	390	267 Peak	HORIZONTAL	4	5927.20	46.27	-22.03	60.30	41.90	32.12	8.59	36.42	390	267 Peak	HORIZONTAL	Site : 83CH03-K5 Condition : 5G BAND4 3m HF ANT-2015813-91200 HORIZONTAL : dBu:1000.000MHz VSW:3000.000kHz SMT:Auto <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5826.00</td><td>105.64</td><td></td><td>101.44</td><td>32.60</td><td>8.47</td><td>36.35</td><td>390</td><td>267 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>5826.00</td><td>90.76</td><td></td><td>94.56</td><td>32.60</td><td>8.47</td><td>36.35</td><td>390</td><td>267 Average</td><td>HORIZONTAL</td></tr></table>		Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5826.00	105.64		101.44	32.60	8.47	36.35	390	267 Peak	HORIZONTAL	2	5826.00	90.76		94.56	32.60	8.47	36.35	390	267 Average	HORIZONTAL
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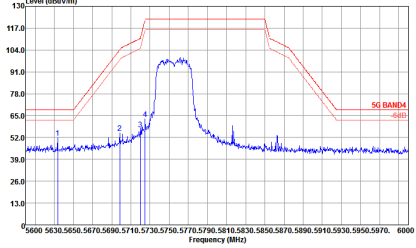
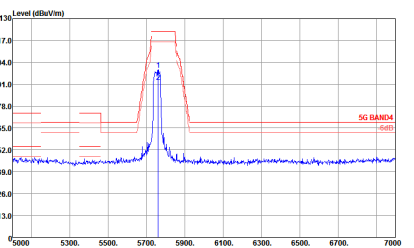
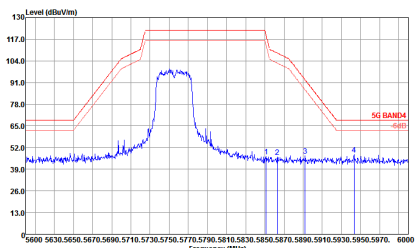
FCC Test Report

Report No. : FR721810E

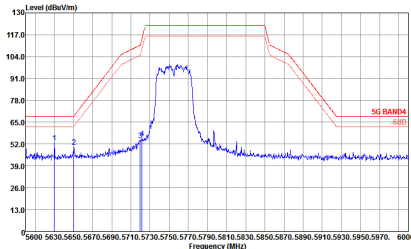
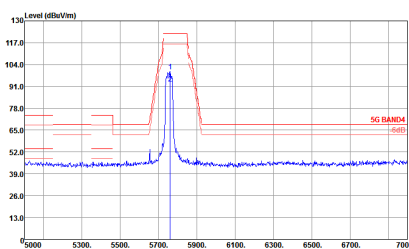
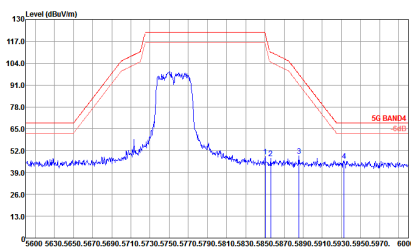
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Peak Avg.	Site : 03CH03-KS Condition : SG BAND4 3m HF ANT-2015013-91200 VERTICAL RBW:3000,VBW:3000,RESOLV: SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5850.00</td><td>52.47</td><td>-68.01</td><td>128.48</td><td>48.25</td><td>32.00</td><td>8.49</td><td>36.36</td><td>313</td><td>189 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>5857.00</td><td>51.49</td><td>-58.00</td><td>138.37</td><td>47.25</td><td>32.10</td><td>8.51</td><td>36.37</td><td>313</td><td>189 Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>5861.20</td><td>47.59</td><td>-53.10</td><td>100.69</td><td>43.34</td><td>32.10</td><td>8.53</td><td>36.38</td><td>313</td><td>189 Peak</td><td>VERTICAL</td></tr><tr><td>4</td><td>5928.00</td><td>46.66</td><td>-23.64</td><td>60.30</td><td>42.37</td><td>32.12</td><td>8.59</td><td>36.42</td><td>313</td><td>189 Peak</td><td>VERTICAL</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5850.00	52.47	-68.01	128.48	48.25	32.00	8.49	36.36	313	189 Peak	VERTICAL	2	5857.00	51.49	-58.00	138.37	47.25	32.10	8.51	36.37	313	189 Peak	VERTICAL	3	5861.20	47.59	-53.10	100.69	43.34	32.10	8.53	36.38	313	189 Peak	VERTICAL	4	5928.00	46.66	-23.64	60.30	42.37	32.12	8.59	36.42	313	189 Peak	VERTICAL	Site : 03CH03-KS Condition : SG BAND4 3m HF ANT-2015013-91200 VERTICAL RBW:3000,VBW:3000,RESOLV: SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5822.00</td><td>107.13</td><td></td><td>102.93</td><td>32.00</td><td>8.47</td><td>36.35</td><td>313</td><td>189 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>5822.00</td><td>100.49</td><td></td><td>96.29</td><td>32.00</td><td>8.47</td><td>36.35</td><td>313</td><td>189 Average</td><td>VERTICAL</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5822.00	107.13		102.93	32.00	8.47	36.35	313	189 Peak	VERTICAL	2	5822.00	100.49		96.29	32.00	8.47	36.35	313	189 Average	VERTICAL
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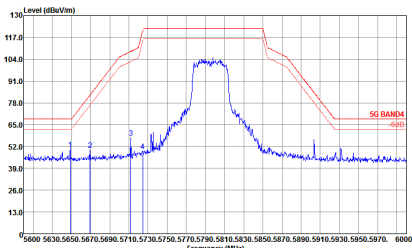
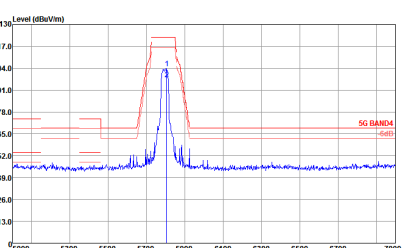
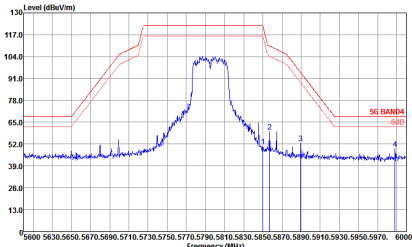
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WIFI 802.11ac VHT40 (Band Edge @ 3m)

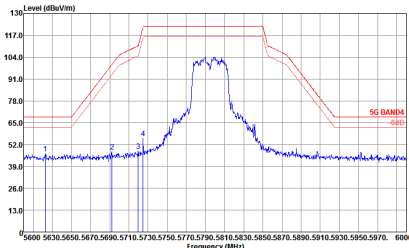
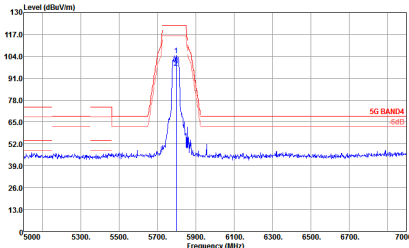
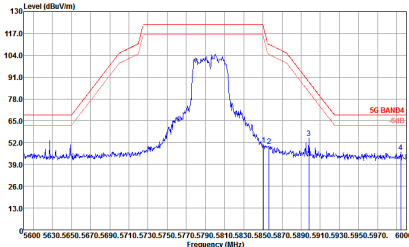
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1	5760.00	99.72			95.60	32.85	8.37	36.38	327	187	Peak HORIZONTAL																																																																																																															
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Peak	 Site Condition : B3CH03-K5 : SG BAND4 3m HF ANT-2015013-91200 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5851.20</td><td>46.63</td><td>-72.93</td><td>119.56</td><td>42.43</td><td>32.89</td><td>8.49</td><td>36.36</td><td>327</td><td>187</td><td>Peak HORIZONTAL</td></tr><tr><td>2</td><td>5863.20</td><td>46.34</td><td>-62.26</td><td>108.60</td><td>42.18</td><td>32.18</td><td>8.51</td><td>36.37</td><td>327</td><td>187</td><td>Peak HORIZONTAL</td></tr><tr><td>3</td><td>5892.88</td><td>47.12</td><td>-45.56</td><td>92.68</td><td>42.88</td><td>32.11</td><td>8.55</td><td>36.48</td><td>327</td><td>187</td><td>Peak HORIZONTAL</td></tr><tr><td>4</td><td>5943.20</td><td>47.74</td><td>-48.56</td><td>96.30</td><td>43.44</td><td>32.12</td><td>8.61</td><td>36.43</td><td>327</td><td>187</td><td>Peak HORIZONTAL</td></tr></table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	5851.20	46.63	-72.93	119.56	42.43	32.89	8.49	36.36	327	187	Peak HORIZONTAL	2	5863.20	46.34	-62.26	108.60	42.18	32.18	8.51	36.37	327	187	Peak HORIZONTAL	3	5892.88	47.12	-45.56	92.68	42.88	32.11	8.55	36.48	327	187	Peak HORIZONTAL	4	5943.20	47.74	-48.56	96.30	43.44	32.12	8.61	36.43	327	187	Peak HORIZONTAL																																																	
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Peak	 Site : 83CH03-KS Condition : 5G BAND4 3m HF ANT-2015013-91200 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>5630.00</td><td>52.69</td><td>-15.61</td><td>68.30</td><td>48.78</td><td>31.99</td><td>8.13</td><td>36.21</td><td>298</td><td>189 Peak</td><td>VERTICAL</td></tr><tr><td>5650.40</td><td>50.38</td><td>-18.40</td><td>68.30</td><td>46.23</td><td>32.01</td><td>8.10</td><td>36.23</td><td>298</td><td>189 Peak</td><td>VERTICAL</td></tr><tr><td>5719.68</td><td>54.48</td><td>-56.31</td><td>118.79</td><td>58.41</td><td>32.04</td><td>8.31</td><td>36.28</td><td>298</td><td>189 Peak</td><td>VERTICAL</td></tr><tr><td>5721.68</td><td>55.43</td><td>-59.12</td><td>114.55</td><td>51.36</td><td>32.04</td><td>8.31</td><td>36.28</td><td>298</td><td>189 Peak</td><td>VERTICAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			5630.00	52.69	-15.61	68.30	48.78	31.99	8.13	36.21	298	189 Peak	VERTICAL	5650.40	50.38	-18.40	68.30	46.23	32.01	8.10	36.23	298	189 Peak	VERTICAL	5719.68	54.48	-56.31	118.79	58.41	32.04	8.31	36.28	298	189 Peak	VERTICAL	5721.68	55.43	-59.12	114.55	51.36	32.04	8.31	36.28	298	189 Peak	VERTICAL	 Site : 83CH03-KS Condition : 5G BAND4 3m HF ANT-2015013-91200 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>5760.00</td><td>99.83</td><td>-</td><td>-</td><td>95.71</td><td>32.05</td><td>8.37</td><td>36.38</td><td>298</td><td>189 Peak</td><td>VERTICAL</td></tr><tr><td>5760.00</td><td>92.53</td><td>-</td><td>-</td><td>88.41</td><td>32.05</td><td>8.37</td><td>36.38</td><td>298</td><td>189 Average</td><td>VERTICAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			5760.00	99.83	-	-	95.71	32.05	8.37	36.38	298	189 Peak	VERTICAL	5760.00	92.53	-	-	88.41	32.05	8.37	36.38	298	189 Average	VERTICAL
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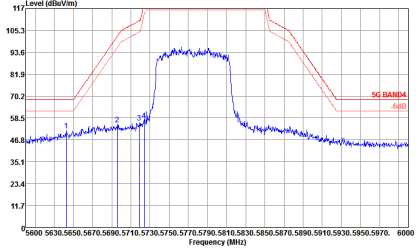
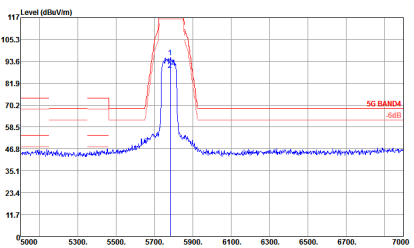
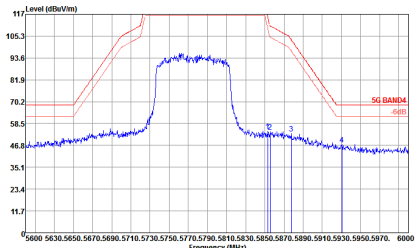


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Peak	 Site : 83CH3-K5 Condition : 5G BAND4 3m HF ANT-2015813-91280 HORIZONTAL RBW:100K,000KHz VBW:300K,000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5648.88</td><td>58.43</td><td>-17.87</td><td>68.38</td><td>46.49</td><td>32.88</td><td>8.16</td><td>36.22</td><td>324</td><td>113 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>5669.00</td><td>49.88</td><td>-33.84</td><td>82.34</td><td>45.88</td><td>32.82</td><td>8.22</td><td>36.24</td><td>324</td><td>113 Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>5712.88</td><td>57.14</td><td>-51.52</td><td>108.66</td><td>53.18</td><td>32.83</td><td>8.28</td><td>36.27</td><td>324</td><td>113 Peak</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>5724.48</td><td>49.18</td><td>-73.83</td><td>128.55</td><td>45.83</td><td>32.84</td><td>8.31</td><td>36.28</td><td>324</td><td>113 Peak</td><td>HORIZONTAL</td></tr></table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	5648.88	58.43	-17.87	68.38	46.49	32.88	8.16	36.22	324	113 Peak	HORIZONTAL	2	5669.00	49.88	-33.84	82.34	45.88	32.82	8.22	36.24	324	113 Peak	HORIZONTAL	3	5712.88	57.14	-51.52	108.66	53.18	32.83	8.28	36.27	324	113 Peak	HORIZONTAL	4	5724.48	49.18	-73.83	128.55	45.83	32.84	8.31	36.28	324	113 Peak	HORIZONTAL	 Site : 83CH3-K5 Condition : 5G BAND4 3m HF ANT-2015813-91280 HORIZONTAL RBW:100K,000KHz VBW:300K,000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5806.00</td><td>103.98</td><td>-</td><td>99.78</td><td>32.88</td><td>8.45</td><td>36.33</td><td>324</td><td>113 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>5808.00</td><td>97.48</td><td>-</td><td>93.28</td><td>32.88</td><td>8.45</td><td>36.33</td><td>324</td><td>113 Average</td><td>HORIZONTAL</td></tr></table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	5806.00	103.98	-	99.78	32.88	8.45	36.33	324	113 Peak	HORIZONTAL	2	5808.00	97.48	-	93.28	32.88	8.45	36.33	324	113 Average	HORIZONTAL
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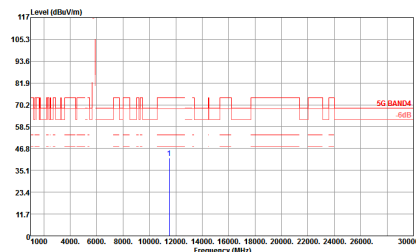
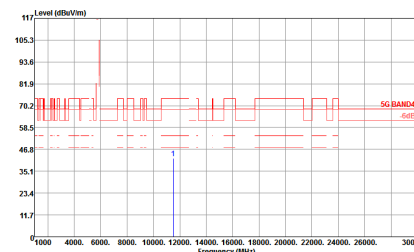
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

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Peak	Site : 83CH3-K5 Condition : 5G BAND4 3m HF ANT-2015813-91200 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5638.48</td><td>49.98</td><td>-18.48</td><td>68.38</td><td>45.96</td><td>32.08</td><td>8.16</td><td>36.22</td><td>313</td><td>189 Peak</td></tr><tr><td>2</td><td>5694.00</td><td>56.43</td><td>-44.43</td><td>100.88</td><td>52.43</td><td>32.02</td><td>8.25</td><td>36.25</td><td>313</td><td>189 Peak</td></tr><tr><td>3</td><td>5716.48</td><td>54.76</td><td>-55.13</td><td>109.89</td><td>58.72</td><td>32.03</td><td>8.28</td><td>36.27</td><td>313</td><td>189 Peak</td></tr><tr><td>4</td><td>5723.28</td><td>57.37</td><td>-48.23</td><td>115.28</td><td>53.98</td><td>32.04</td><td>8.31</td><td>36.28</td><td>313</td><td>189 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5638.48	49.98	-18.48	68.38	45.96	32.08	8.16	36.22	313	189 Peak	2	5694.00	56.43	-44.43	100.88	52.43	32.02	8.25	36.25	313	189 Peak	3	5716.48	54.76	-55.13	109.89	58.72	32.03	8.28	36.27	313	189 Peak	4	5723.28	57.37	-48.23	115.28	53.98	32.04	8.31	36.28	313	189 Peak	Site : 83CH3-K5 Condition : 5G BAND4 3m HF ANT-2015813-91200 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5772.00</td><td>96.56</td><td></td><td>92.41</td><td>32.86</td><td>8.40</td><td>36.31</td><td>313</td><td>189 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>5772.00</td><td>98.01</td><td></td><td>85.86</td><td>32.86</td><td>8.40</td><td>36.31</td><td>313</td><td>189 Average</td><td>VERTICAL</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5772.00	96.56		92.41	32.86	8.40	36.31	313	189 Peak	VERTICAL	2	5772.00	98.01		85.86	32.86	8.40	36.31	313	189 Average	VERTICAL
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Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m																																																																										
ANT	802.11a CH149 5745MHz																																																																										
1+2	Horizontal					Vertical																																																																					
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WIFI	Band 4 5725~5850MHz Harmonic @ 3m																																																																			
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Peak	Site : 83CH03-K5 Condition : SG BAND4 3m HF ANT-2015013-91280 HORIZONTAL : ENU-1800-6000MHz VSU-3000-6000MHz SUT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 11570.00</td><td>41.32</td><td>-32.68</td><td>74.00</td><td>47.09</td><td>38.75</td><td>12.63</td><td>57.15</td><td>100</td><td>300 Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1 11570.00	41.32	-32.68	74.00	47.09	38.75	12.63	57.15	100	300 Peak	HORIZONTAL	Site : 83CH03-K5 Condition : SG BAND4 3m HF ANT-2015013-91280 VERTICAL : ENU-1800-6000MHz VSU-3000-6000MHz SUT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 11570.00</td><td>41.34</td><td>-32.66</td><td>74.00</td><td>47.11</td><td>38.75</td><td>12.63</td><td>57.15</td><td>100</td><td>0 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1 11570.00	41.34	-32.66	74.00	47.11	38.75	12.63	57.15	100	0 Peak	VERTICAL
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WIFI

ANT

1+2

Band 4 5725~5850MHz Harmonic @ 3m

802.11a CH165 5825MHz

Horizontal

Vertical

Peak

11

105.3

93.6

81.9

70.2

58.5

46.8

35.1

23.4

11.7

Level (dBuV/m)

1000

4000

6000

8000

10000

12000

14000

16000

18000

20000

22000

24000

26000

28000

30000

SG BAND4

dB

Site : 802.11a-ES

Condition : SG BAND4 3m HP ANT-2015113-91280 HORIZONTAL

: RSM:1000,000KHz VSW:3000,000KHz SMT:Auto

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		
1	11650.00	42.33	-31.67	74.00	48.05	38.90	12.67	57.29	100	368 Peak	HORIZONTAL

11

105.3

93.6

81.9

70.2

58.5

46.8

35.1

23.4

11.7

Level (dBuV/m)

1000

4000

6000

8000

10000

12000

14000

16000

18000

20000

22000

24000

26000

28000

30000

SG BAND4

dB

Site : 802.11a-ES

Condition : SG BAND4 3m HP ANT-2015113-91280 VERTICAL

: RSM:1000,000KHz VSW:3000,000KHz SMT:Auto

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		
1	11650.00	42.97	-31.03	74.00	48.69	38.90	12.67	57.29	100	0 Peak	VERTICAL



Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m																																																																			
ANT	802.11ac VHT20 CH149 5745MHz																																																																			
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ANT	802.11ac VHT20 CH157 5785MHz																																																																															
1+2	Horizontal	Vertical																																																																														
Peak	Site : 83CH83-K5 Condition : 5G BAND4 3m HF ANT-2015813-91200 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Unit</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th><th></th><th></th></tr><tr><td>1 11570.00</td><td>42.21</td><td>-31.79</td><td>74.00</td><td>47.98</td><td>38.75</td><td>12.63</td><td>57.15</td><td>100</td><td>360</td><td>Peak</td><td>HORIZONTAL</td><td></td></tr></table>	Freq	Level	Unit	Limit	Line	Level	Factor	Loss	Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg					1 11570.00	42.21	-31.79	74.00	47.98	38.75	12.63	57.15	100	360	Peak	HORIZONTAL		Site : 83CH83-K5 Condition : 5G BAND4 3m HF ANT-2015813-91200 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Unit</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th><th></th><th></th></tr><tr><td>1 11570.00</td><td>42.33</td><td>-31.67</td><td>74.00</td><td>48.10</td><td>38.75</td><td>12.63</td><td>57.15</td><td>100</td><td>1</td><td>Peak</td><td>VERTICAL</td><td></td></tr></table>	Freq	Level	Unit	Limit	Line	Level	Factor	Loss	Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg					1 11570.00	42.33	-31.67	74.00	48.10	38.75	12.63	57.15	100	1	Peak	VERTICAL	
	Freq	Level	Unit	Limit	Line	Level	Factor	Loss	Factor	A/Pos	T/Pos	Remark	Pol/Phas																																																																			
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1 11570.00	42.33	-31.67	74.00	48.10	38.75	12.63	57.15	100	1	Peak	VERTICAL																																																																					



WIFI	Band 4 5725~5850MHz Harmonic @ 3m																																																													
ANT	802.11ac VHT20 CH165 5825MHz																																																													
1+2	Horizontal	Vertical																																																												
Peak	Site : 83CH83-KS Condition : 5G BAND4 3m HF ANT-2815813-91280 HORIZONTAL : RBU:1000.000MHz VBU:3000.000MHz SUT:Auto <table><tr><th>Freq</th><th>Level</th><th>Upper Limit</th><th>Lower Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 11650.00</td><td>42.46</td><td>-31.54</td><td>74.00</td><td>48.18</td><td>38.90</td><td>12.67</td><td>57.29</td><td>180</td><td>368 Peak HORIZONTAL</td></tr></table>	Freq	Level	Upper Limit	Lower Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1 11650.00	42.46	-31.54	74.00	48.18	38.90	12.67	57.29	180	368 Peak HORIZONTAL	Site : 83CH83-KS Condition : 5G BAND4 3m HF ANT-2815813-91280 VERTICAL : RBU:1000.000MHz VBU:3000.000MHz SUT:Auto <table><tr><th>Freq</th><th>Level</th><th>Upper Limit</th><th>Lower Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 11650.00</td><td>40.93</td><td>-33.07</td><td>74.00</td><td>46.05</td><td>38.90</td><td>12.67</td><td>57.29</td><td>180</td><td>0 Peak VERTICAL</td></tr></table>	Freq	Level	Upper Limit	Lower Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1 11650.00	40.93	-33.07	74.00	46.05	38.90	12.67	57.29	180	0 Peak VERTICAL
	Freq	Level	Upper Limit	Lower Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																				
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1 11650.00	40.93	-33.07	74.00	46.05	38.90	12.67	57.29	180	0 Peak VERTICAL																																																					



Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m																																																																																		
ANT	802.11ac VHT40 CH151 5755MHz																																																																																		
1+2	Horizontal						Vertical																																																																												
Peak	Site : 03CH03-KS Condition : SG BAND4 3m HF ANT-2015013-91280 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>11510.00</td><td>41.39</td><td>-32.61</td><td>74.00</td><td>47.23</td><td>38.60</td><td>12.58</td><td>57.02</td><td>100</td><td>360 Peak</td><td>HORIZONTAL</td></tr></table>							Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	11510.00	41.39	-32.61	74.00	47.23	38.60	12.58	57.02	100	360 Peak	HORIZONTAL	Site : 03CH03-KS Condition : SG BAND4 3m HF ANT-2015013-91280 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>11510.00</td><td>41.24</td><td>-32.76</td><td>74.00</td><td>47.08</td><td>38.60</td><td>12.58</td><td>57.02</td><td>100</td><td>0 Peak</td><td>VERTICAL</td></tr></table>						Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	11510.00	41.24	-32.76	74.00	47.08	38.60	12.58	57.02	100	0 Peak	VERTICAL
		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																							
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WIFI	Band 4 5725~5850MHz Harmonic @ 3m																																																																			
ANT	802.11ac VHT40 CH159 5795MHz																																																																			
1+2	Horizontal	Vertical																																																																		
Peak	Site : 03CH03-KS Condition : SG BAND4 3m HF ANT-2015013-91200 HORIZONTAL : RNU-1000-00000000 VNU-3000-00000000 SUT-Auto <table><tr><th>Freq</th><th>Level</th><th>User</th><th>Limit</th><th>HeadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 11590.00</td><td>42.06</td><td>-31.94</td><td>74.00</td><td>47.82</td><td>38.79</td><td>12.64</td><td>57.19</td><td>100</td><td>360 Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	User	Limit	HeadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1 11590.00	42.06	-31.94	74.00	47.82	38.79	12.64	57.19	100	360 Peak	HORIZONTAL	Site : 03CH03-KS Condition : SG BAND4 3m HF ANT-2015013-91200 VERTICAL : RNU-1000-00000000 VNU-3000-00000000 SUT-Auto <table><tr><th>Freq</th><th>Level</th><th>User</th><th>Limit</th><th>HeadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 11590.00</td><td>41.58</td><td>-32.58</td><td>74.00</td><td>47.26</td><td>38.79</td><td>12.64</td><td>57.19</td><td>100</td><td>0 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	User	Limit	HeadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1 11590.00	41.58	-32.58	74.00	47.26	38.79	12.64	57.19	100	0 Peak	VERTICAL
	Freq	Level	User	Limit	HeadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																									
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg																																																												
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1 11590.00	41.58	-32.58	74.00	47.26	38.79	12.64	57.19	100	0 Peak	VERTICAL																																																										

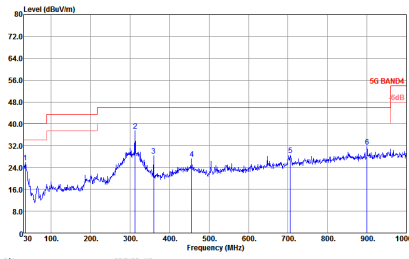
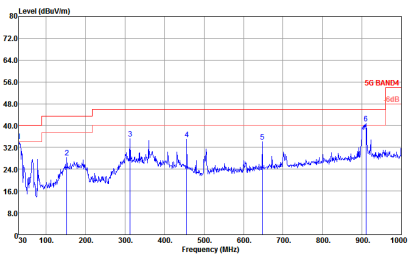


Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m																																																																			
ANT	802.11ac VHT80 CH155 5775MHz																																																																			
1+2	Horizontal	Vertical																																																																		
Peak	Site : 83CH3-K5 Condition : SG BAND4 3m HF ANT-2815813-91280 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 11550.00</td><td>41.07</td><td>-32.93</td><td>74.00</td><td>46.86</td><td>38.71</td><td>12.62</td><td>57.12</td><td>100</td><td>360 Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1 11550.00	41.07	-32.93	74.00	46.86	38.71	12.62	57.12	100	360 Peak	HORIZONTAL	Site : 83CH3-K5 Condition : SG BAND4 3m HF ANT-2815813-91280 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 11550.00</td><td>40.93</td><td>-33.07</td><td>74.00</td><td>46.72</td><td>38.71</td><td>12.62</td><td>57.12</td><td>100</td><td>0 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1 11550.00	40.93	-33.07	74.00	46.72	38.71	12.62	57.12	100	0 Peak	VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																									
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																											
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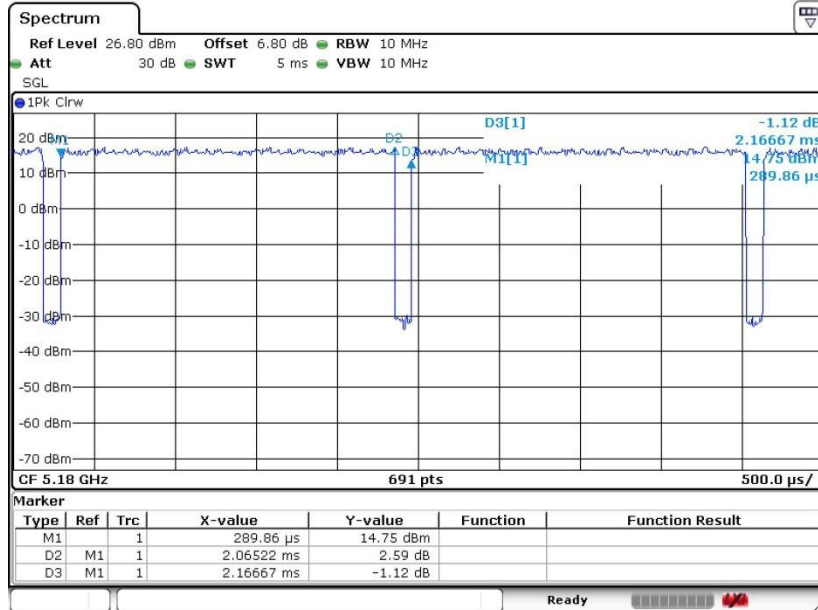
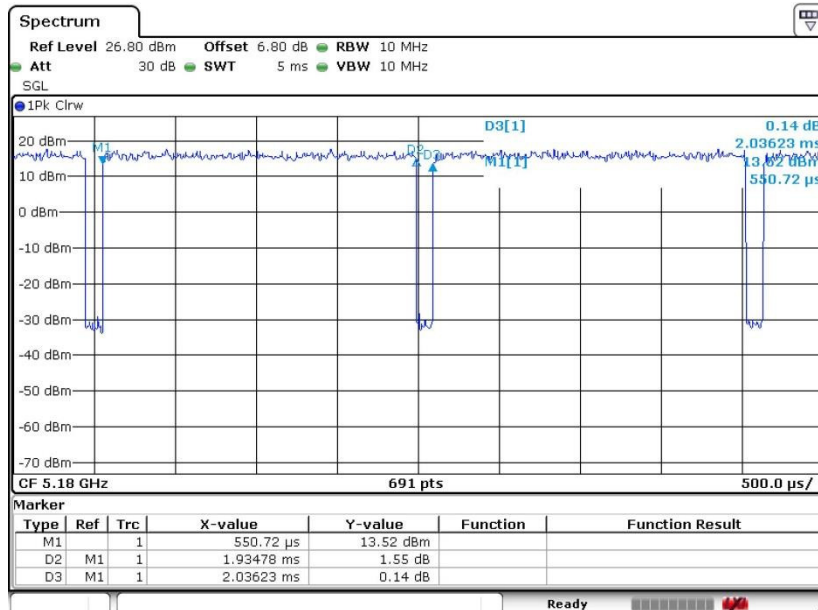


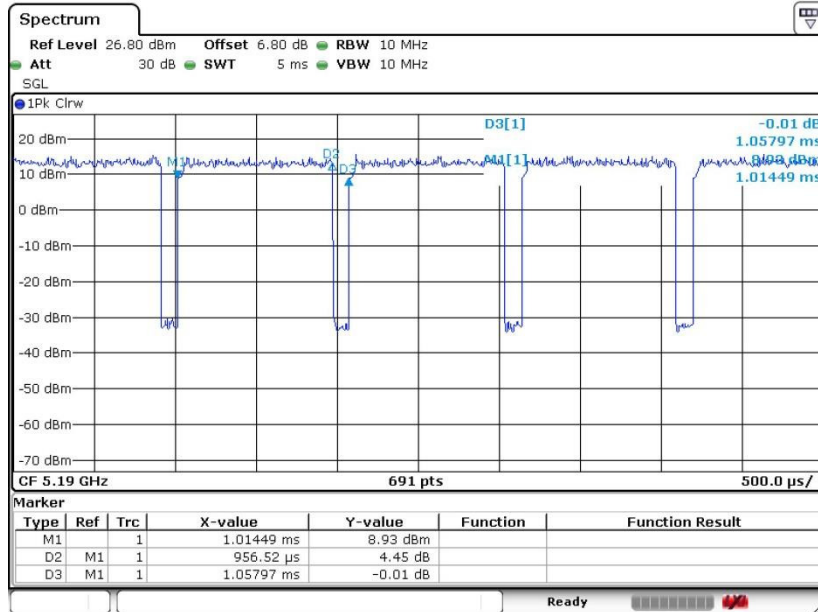
Emission below 1GHz
5GHz WIFI 802.11ac VHT40 (LF)

WIFI	5GHz 5725~5850MHz																																																																																																																																																																																											
ANT	802.11ac VHT40 LF																																																																																																																																																																																											
1+2	Horizontal	Vertical																																																																																																																																																																																										
QP / Peak	 Site Condition : 03CH03-K5 : 5G BAND 3m LF ANT 600 HORIZONTAL : RSN:100.0000Hz VSW:300.0000Hz SMT:Auto <table><tr><th>Peak</th><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>33.88</td><td>25.33</td><td>-14.87</td><td>48.00</td><td>31.88</td><td>25.84</td><td>0.70</td><td>32.49</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>312.27</td><td>37.35</td><td>-8.05</td><td>46.00</td><td>47.87</td><td>19.59</td><td>2.18</td><td>32.29</td><td>100</td><td>0</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>359.80</td><td>38.35</td><td>-17.75</td><td>46.00</td><td>36.53</td><td>21.07</td><td>2.33</td><td>32.28</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>455.83</td><td>27.23</td><td>-18.77</td><td>46.00</td><td>31.58</td><td>25.24</td><td>2.66</td><td>32.17</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>5</td><td>786.89</td><td>28.49</td><td>-17.51</td><td>46.00</td><td>38.53</td><td>26.69</td><td>9.36</td><td>32.89</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>6</td><td>980.89</td><td>31.62</td><td>-14.38</td><td>46.00</td><td>38.88</td><td>28.52</td><td>3.85</td><td>31.63</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr></table>	Peak	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg		1	33.88	25.33	-14.87	48.00	31.88	25.84	0.70	32.49	---	Peak	HORIZONTAL	2	312.27	37.35	-8.05	46.00	47.87	19.59	2.18	32.29	100	0	Peak	HORIZONTAL	3	359.80	38.35	-17.75	46.00	36.53	21.07	2.33	32.28	---	Peak	HORIZONTAL	4	455.83	27.23	-18.77	46.00	31.58	25.24	2.66	32.17	---	Peak	HORIZONTAL	5	786.89	28.49	-17.51	46.00	38.53	26.69	9.36	32.89	---	Peak	HORIZONTAL	6	980.89	31.62	-14.38	46.00	38.88	28.52	3.85	31.63	---	Peak	HORIZONTAL	 Site Condition : 03CH03-K5 : 5G BAND 3m LF ANT 600 VERTICAL : RSN:100.0000Hz VSW:300.0000Hz SMT:Auto <table><tr><th>Peak</th><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>38.00</td><td>34.31</td><td>-5.69</td><td>48.00</td><td>39.87</td><td>27.28</td><td>0.65</td><td>32.61</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>152.22</td><td>28.23</td><td>-15.27</td><td>43.58</td><td>41.35</td><td>17.82</td><td>1.49</td><td>32.43</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>312.27</td><td>35.18</td><td>-10.82</td><td>46.00</td><td>43.78</td><td>19.59</td><td>2.18</td><td>32.29</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>4</td><td>455.83</td><td>34.98</td><td>-11.02</td><td>46.00</td><td>39.25</td><td>25.24</td><td>2.66</td><td>32.17</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>5</td><td>647.89</td><td>34.17</td><td>-11.83</td><td>46.00</td><td>36.95</td><td>25.65</td><td>3.28</td><td>31.63</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>6</td><td>980.79</td><td>40.73</td><td>-5.27</td><td>46.00</td><td>39.75</td><td>28.69</td><td>3.87</td><td>31.58</td><td>100</td><td>20</td><td>Peak</td><td>VERTICAL</td></tr></table>	Peak	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg		1	38.00	34.31	-5.69	48.00	39.87	27.28	0.65	32.61	---	Peak	VERTICAL	2	152.22	28.23	-15.27	43.58	41.35	17.82	1.49	32.43	---	Peak	VERTICAL	3	312.27	35.18	-10.82	46.00	43.78	19.59	2.18	32.29	---	Peak	VERTICAL	4	455.83	34.98	-11.02	46.00	39.25	25.24	2.66	32.17	---	Peak	VERTICAL	5	647.89	34.17	-11.83	46.00	36.95	25.65	3.28	31.63	---	Peak	VERTICAL	6	980.79	40.73	-5.27	46.00	39.75	28.69	3.87	31.58	100	20	Peak	VERTICAL
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Appendix C. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1+2	802.11a	95.32	2.065	0.484	1kHz
1+2	802.11ac VHT20	95.02	1.935	0.517	1kHz
1+2	802.11ac VHT40	90.41	0.957	1.045	3kHz
1+2	802.11ac VHT80	81.63	0.464	2.156	3kHz

802.11a

802.11ac VHT20


802.11ac VHT40

802.11ac VHT80
