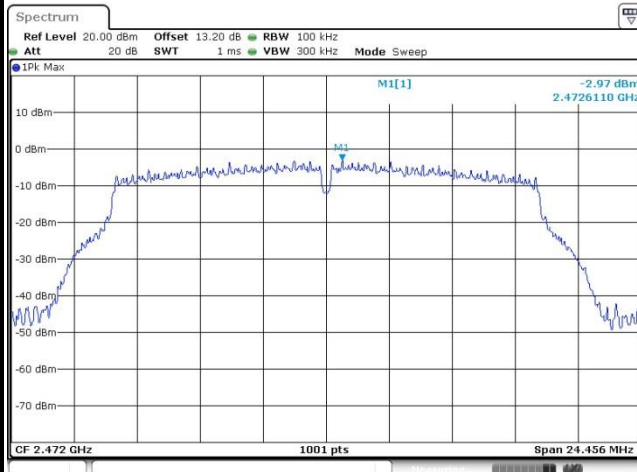




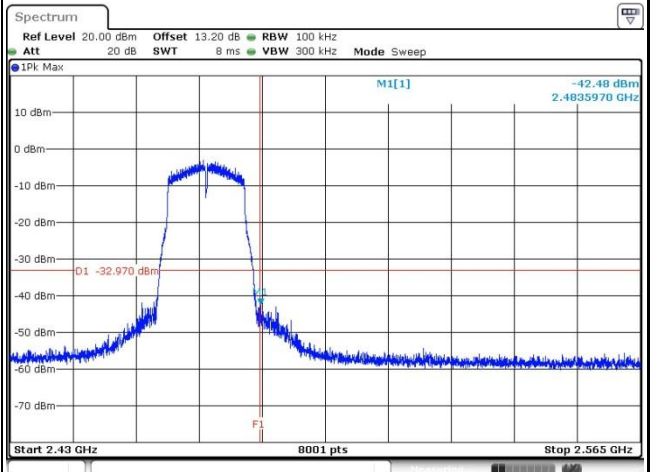
Test Mode :	802.11g	Test Channel :	13
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100kHz PSD reference Level



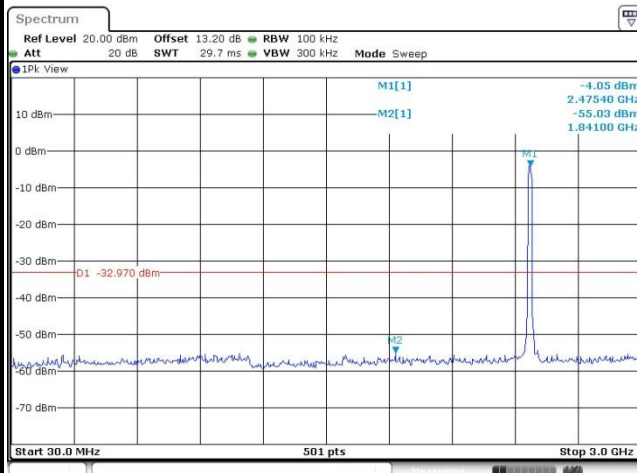
Date: 30 JUL 2019 15:56:29

High Channel Plot



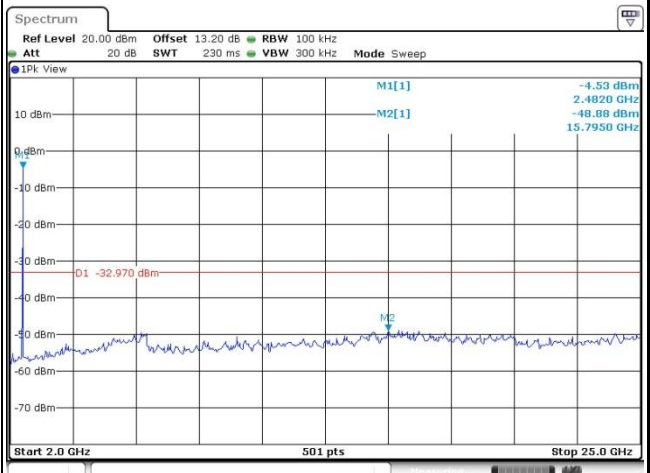
Date: 30 JUL 2019 15:58:27

Spurious Emission 30MHz~3GHz

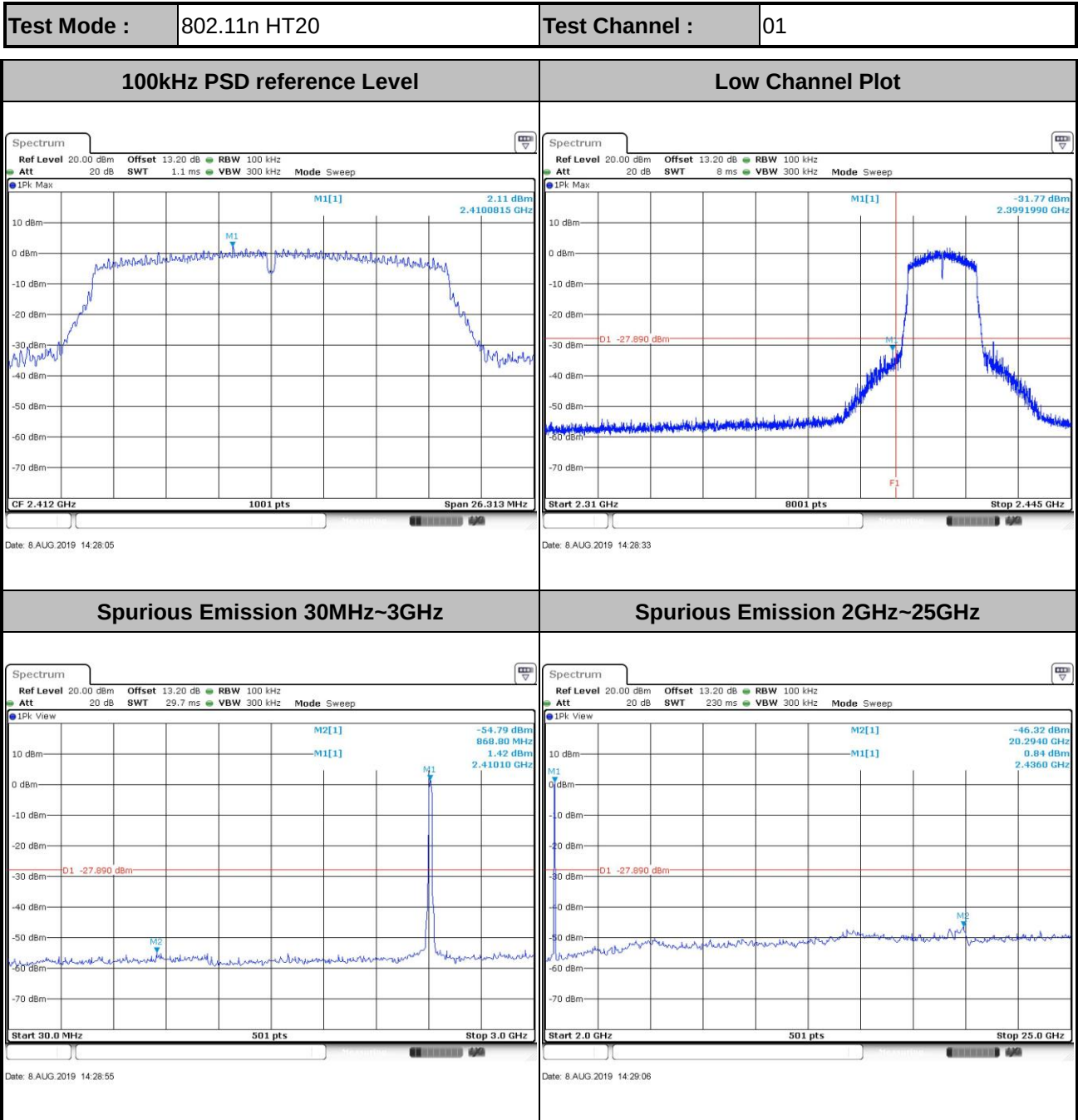


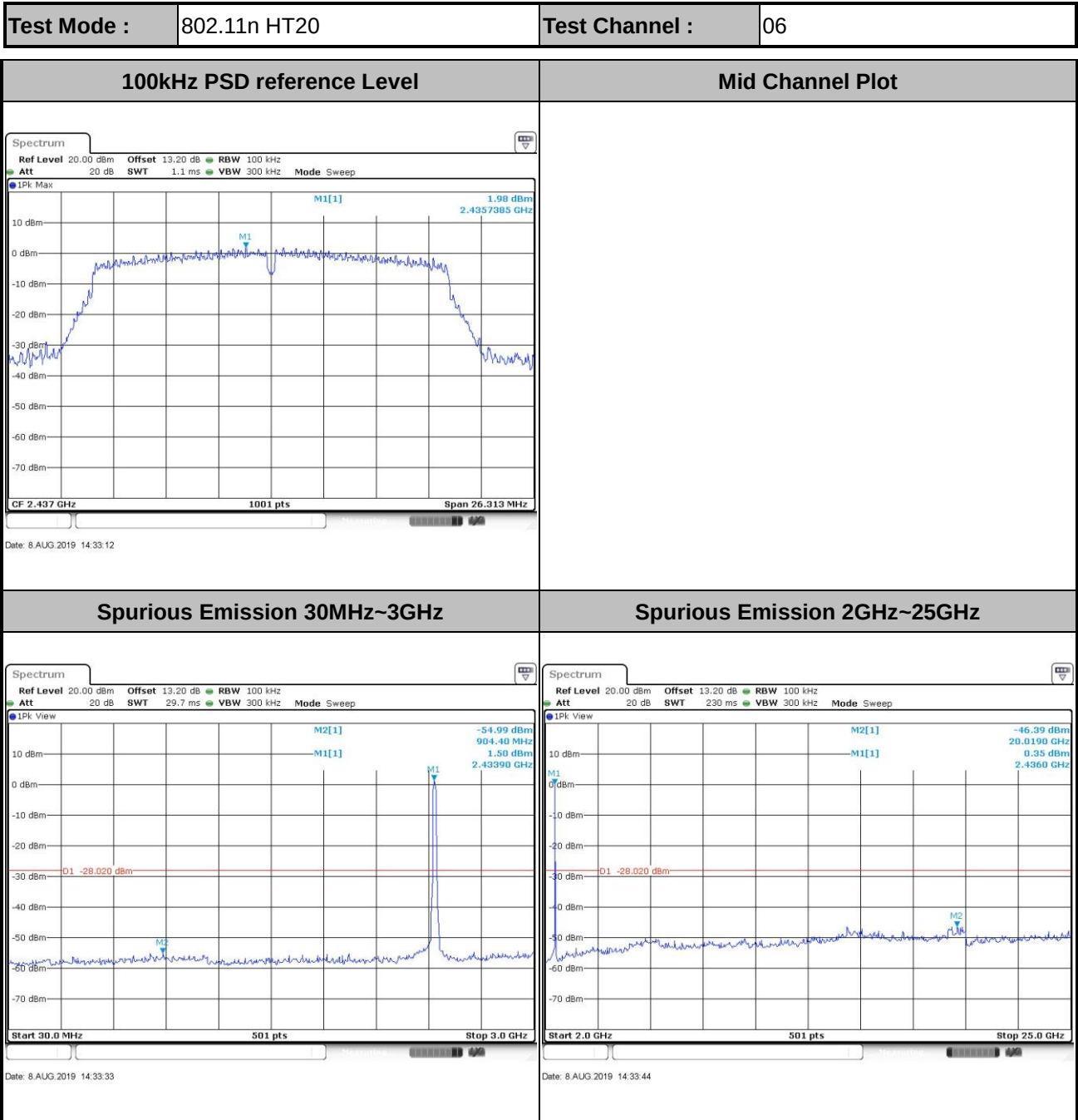
Date: 30 JUL 2019 15:57:26

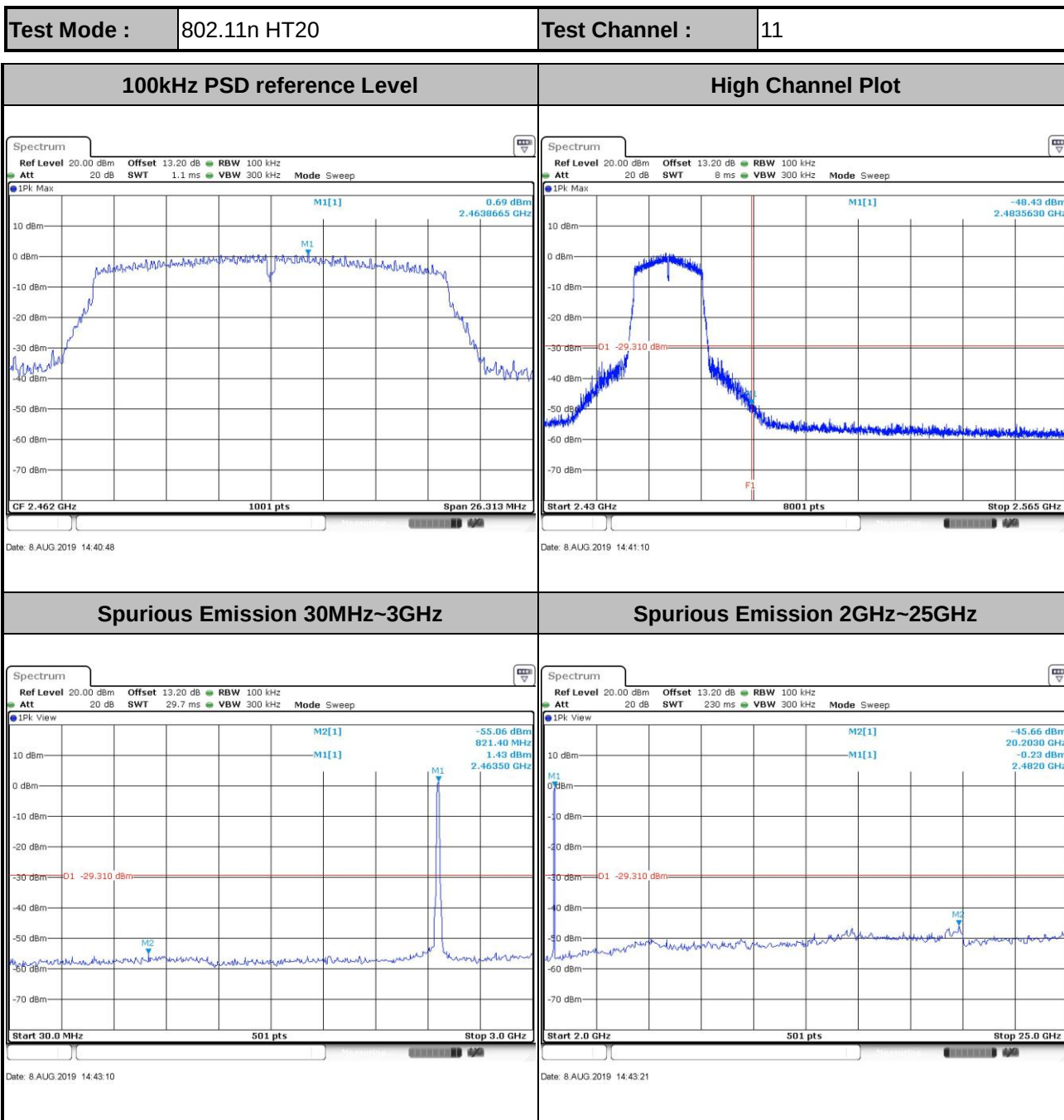
Spurious Emission 2GHz~25GHz

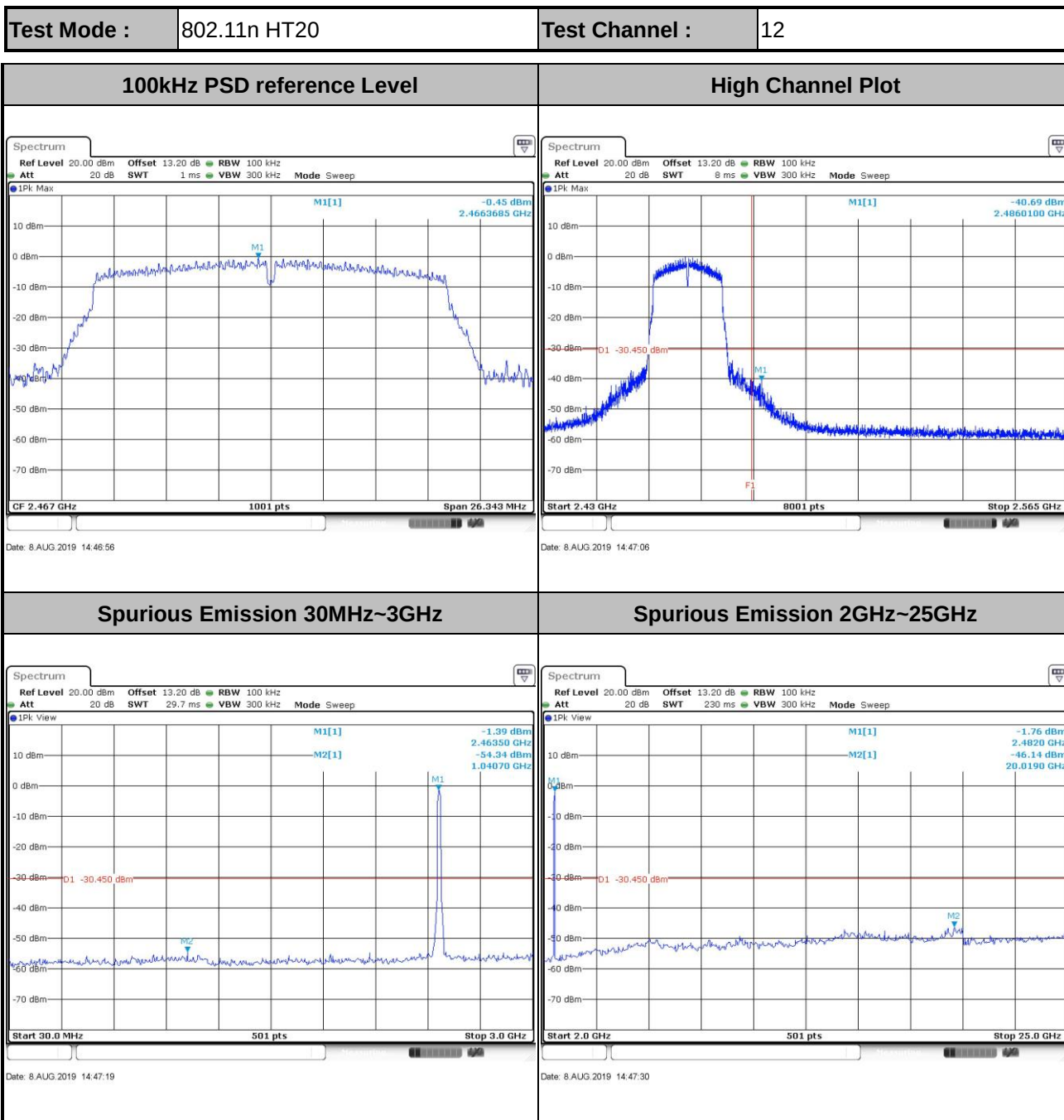


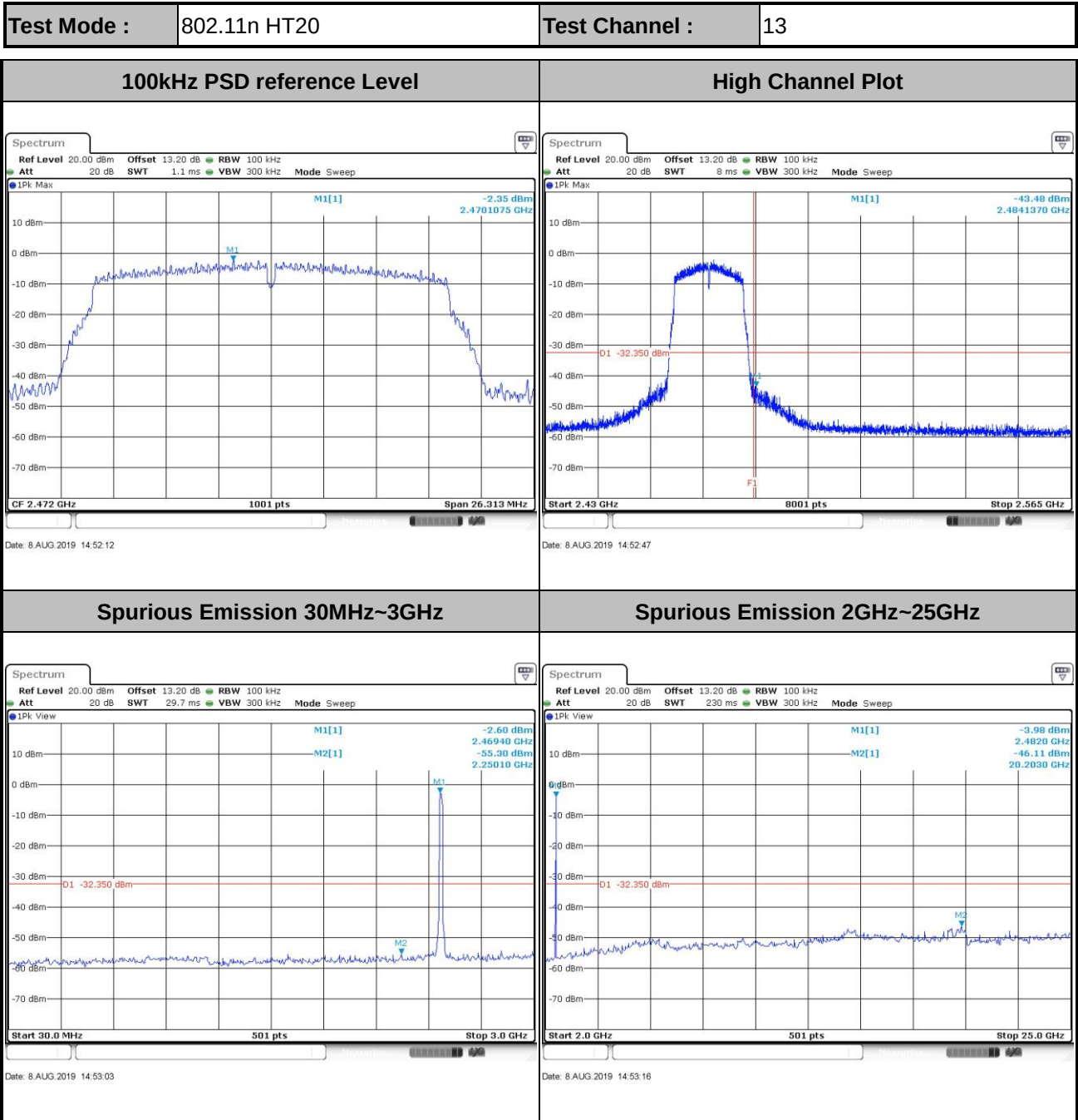
Date: 30 JUL 2019 15:58:14











3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.5.2 Measuring Instruments

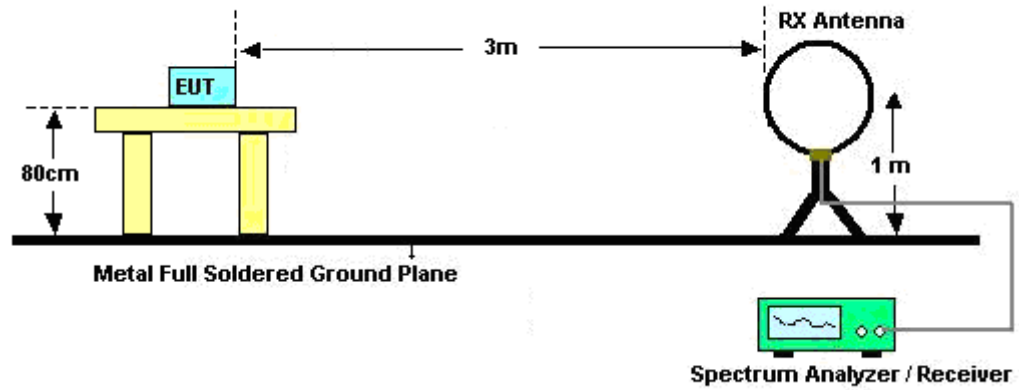
See list of measuring equipment of this test report.

3.5.3 Test Procedures

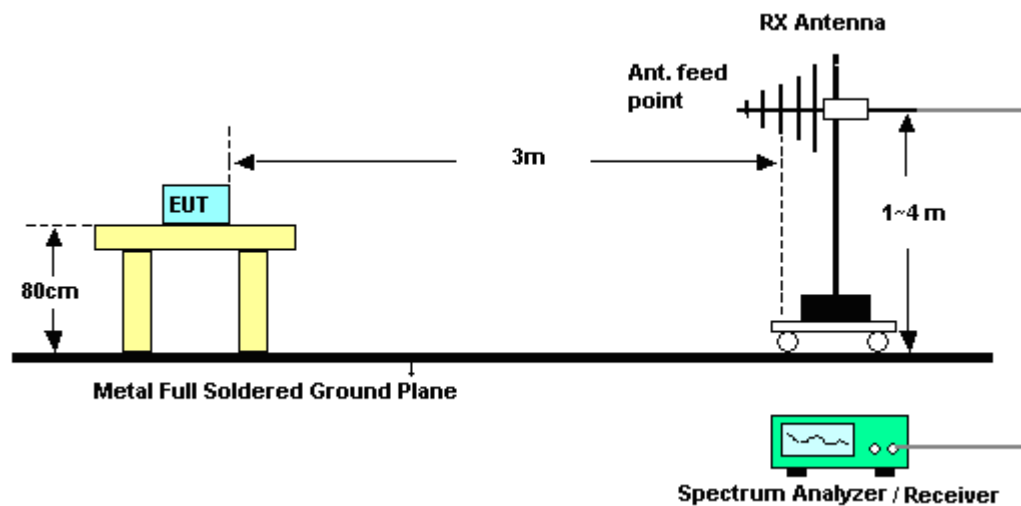
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. 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.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
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.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - $VBW = 10$ 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.

3.5.4 Test Setup

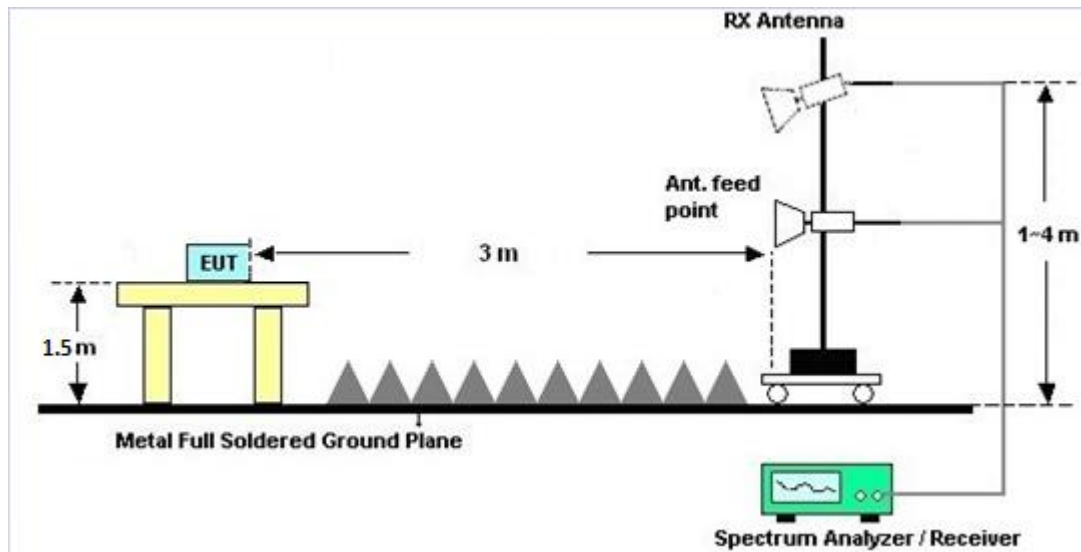
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

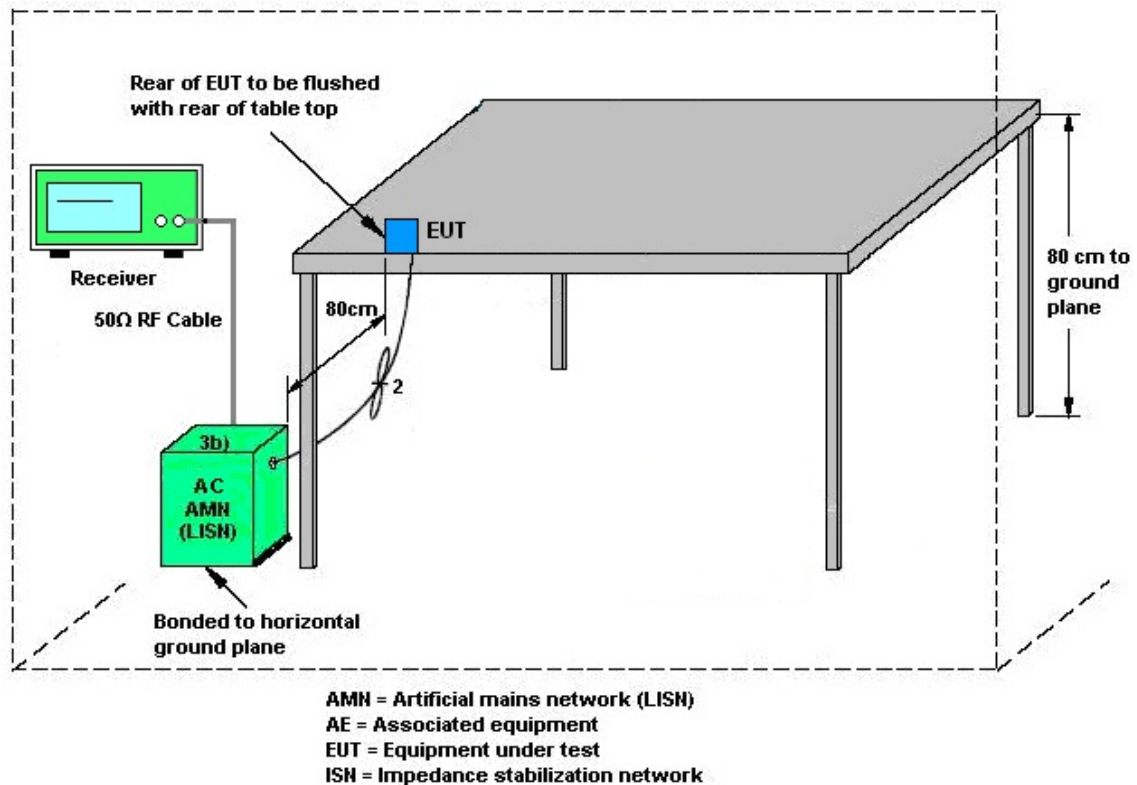
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

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.

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 1	Ant. 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	3.33	3.30	6.33	6.33	0.33	0.33

Power Limit Reduction = $DG(\text{Power}) - 6\text{dBi}$, (min = 0)

PSD Limit Reduction = $DG(\text{PSD}) - 6\text{dBi}$, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 19, 2018	Jul. 11, 2019~ Aug. 08, 2019	Dec. 18 2019	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 13, 2018	Jul. 11, 2019~ Aug. 08, 2019	Nov. 12, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC120838 2	N/A	Mar. 27, 2019	Jul. 11, 2019~ Aug. 08, 2019	Mar. 26, 2020	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 03, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Jul. 03, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jul. 03, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Jul. 03, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 03, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Jul. 03, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Jul. 03, 2019	Dec. 30, 2019	Conduction (CO05-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Jun. 20, 2019~ Jul. 31, 2019	Jan. 06, 2020	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-121 2	1GHz ~ 18GHz	May 14, 2019	Jun. 20, 2019~ Jul. 31, 2019	May 13, 2020	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	37059&01	30MHz~1GHz	Oct. 13, 2018	Jun. 20, 2019~ Jul. 31, 2019	Oct. 12, 2019	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Dec. 05, 2018	Jun. 20, 2019~ Jul. 31, 2019	Dec. 04, 2019	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Mar. 15, 2019	Jun. 20, 2019~ Jul. 31, 2019	Mar. 14, 2020	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 20, 2019	Jun. 20, 2019~ Jul. 31, 2019	May 19, 2020	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 18, 2018	Jun. 20, 2019~ Jul. 31, 2019	Dec. 17, 2019	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 06, 2018	Jun. 20, 2019~ Jul. 31, 2019	Dec. 05, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 13, 2019	Jun. 20, 2019~ Jul. 31, 2019	Feb. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 13, 2019	Jun. 20, 2019~ Jul. 31, 2019	Feb. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/ 4	30M-18G	Feb. 13, 2019	Jun. 20, 2019~ Jul. 31, 2019	Feb. 12, 2020	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY553705 26	10Hz~44GHz	Mar. 19, 2019	Jun. 20, 2019~ Jul. 31, 2019	Mar. 18, 2020	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jun. 20, 2019~ Jul. 31, 2019	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jun. 20, 2019~ Jul. 31, 2019	N/A	Radiation (03CH13-HY)
Software	AUDIX	E3 6.2009-8-24c	RK-001124	N/A	N/A	Jun. 20, 2019~ Jul. 31, 2019	N/A	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY541300 85	20Hz ~ 8.4GHz	Nov. 01, 2018	Jun. 20, 2019~ Jul. 31, 2019	Oct. 31, 2019	Radiation (03CH13-HY)
Filter	Wainwright	WLKS1200-8 SS	SN3	1.2G Low Pass	Nov. 02, 2018	Jun. 20, 2019~ Jul. 31, 2019	Nov. 01, 2019	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-280 5-3000-18000 -40ST	SN1	3G High Pass	Nov. 14, 2018	Jun. 20, 2019~ Jul. 31, 2019	Nov. 13, 2019	Radiation (03CH13-HY)

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.2
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.3
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Howard Lin	Temperature:	21~25	°C
Test Date:	2019/7/11~2019/8/8	Relative Humidity:	51~54	%
TX Tool	Compliance	TX Tool Version	1.0.0.52	

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	2	1	2412	13.44	13.39	8.05	8.55	0.50	Pass
11b	1Mbps	2	6	2437	13.44	13.44	9.05	9.03	0.50	Pass
11b	1Mbps	2	11	2462	13.34	13.54	8.53	9.05	0.50	Pass
11b	1Mbps	2	12	2467	13.39	13.54	9.03	9.05	0.50	Pass
11b	1Mbps	2	13	2472	13.39	13.44	8.07	8.55	0.50	Pass
11g	6Mbps	2	1	2412	16.63	16.53	16.30	16.32	0.50	Pass
11g	6Mbps	2	6	2437	16.73	16.43	16.32	16.30	0.50	Pass
11g	6Mbps	2	11	2462	16.63	16.48	16.30	16.32	0.50	Pass
11g	6Mbps	2	12	2467	16.63	16.48	16.32	16.32	0.50	Pass
11g	6Mbps	2	13	2472	16.68	16.48	16.32	16.30	0.50	Pass
HT20	MCS0	2	1	2412	17.73	17.63	17.56	17.54	0.50	Pass
HT20	MCS0	2	6	2437	17.73	17.63	17.54	17.54	0.50	Pass
HT20	MCS0	2	11	2462	17.68	17.58	17.56	17.54	0.50	Pass
HT20	MCS0	2	12	2467	17.73	17.58	17.56	17.56	0.50	Pass
HT20	MCS0	2	13	2472	17.68	17.58	17.56	17.54	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	2	1	2412	15.10	15.00	18.06	30.00		3.33		21.39		36.00		Pass
11b	1Mbps	2	6	2437	14.80	15.00	17.91	30.00		3.33		21.24		36.00		Pass
11b	1Mbps	2	11	2462	15.30	15.00	18.16	30.00		3.33		21.49		36.00		Pass
11b	1Mbps	2	12	2467	15.20	15.40	18.31	30.00		3.33		21.64		36.00		Pass
11b	1Mbps	2	13	2472	13.70	13.80	16.76	30.00		3.33		20.09		36.00		Pass
11g	6Mbps	2	1	2412	14.20	13.80	17.01	30.00		3.33		20.34		36.00		Pass
11g	6Mbps	2	6	2437	13.70	13.80	16.76	30.00		3.33		20.09		36.00		Pass
11g	6Mbps	2	11	2462	13.70	13.90	16.81	30.00		3.33		20.14		36.00		Pass
11g	6Mbps	2	12	2467	10.60	10.50	13.56	30.00		3.33		16.89		36.00		Pass
11g	6Mbps	2	13	2472	9.90	9.90	12.91	30.00		3.33		16.24		36.00		Pass
HT20	MCS0	2	1	2412	15.40	15.20	18.31	30.00		3.33		21.64		36.00		Pass
HT20	MCS0	2	6	2437	14.70	14.80	17.76	30.00		3.33		21.09		36.00		Pass
HT20	MCS0	2	11	2462	13.70	13.80	16.76	30.00		3.33		20.09		36.00		Pass
HT20	MCS0	2	12	2467	11.20	11.40	14.31	30.00		3.33		17.64		36.00		Pass
HT20	MCS0	2	13	2472	9.70	9.70	12.71	30.00		3.33		16.04		36.00		Pass

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	2	1	2412	-8.05	-8.28	-5.04	6.33		7.67		Pass
11b	1Mbps	2	6	2437	-7.47	-6.78	-3.77	6.33		7.67		Pass
11b	1Mbps	2	11	2462	-7.85	-7.27	-4.26	6.33		7.67		Pass
11b	1Mbps	2	12	2467	-7.98	-8.08	-4.97	6.33		7.67		Pass
11b	1Mbps	2	13	2472	-9.40	-8.26	-5.25	6.33		7.67		Pass
11g	6Mbps	2	1	2412	-10.14	-11.01	-7.13	6.33		7.67		Pass
11g	6Mbps	2	6	2437	-10.49	-10.28	-7.27	6.33		7.67		Pass
11g	6Mbps	2	11	2462	-10.48	-10.61	-7.47	6.33		7.67		Pass
11g	6Mbps	2	12	2467	-14.14	-13.92	-10.91	6.33		7.67		Pass
11g	6Mbps	2	13	2472	-14.32	-15.37	-11.31	6.33		7.67		Pass
HT20	MCS0	2	1	2412	-10.12	-11.04	-7.11	6.33		7.67		Pass
HT20	MCS0	2	6	2437	-10.30	-10.53	-7.29	6.33		7.67		Pass
HT20	MCS0	2	11	2462	-11.26	-11.03	-8.02	6.33		7.67		Pass
HT20	MCS0	2	12	2467	-11.98	-12.05	-8.97	6.33		7.67		Pass
HT20	MCS0	2	13	2472	-15.32	-14.67	-11.66	6.33		7.67		Pass

Measured power density (dBm) has offset with cable loss.



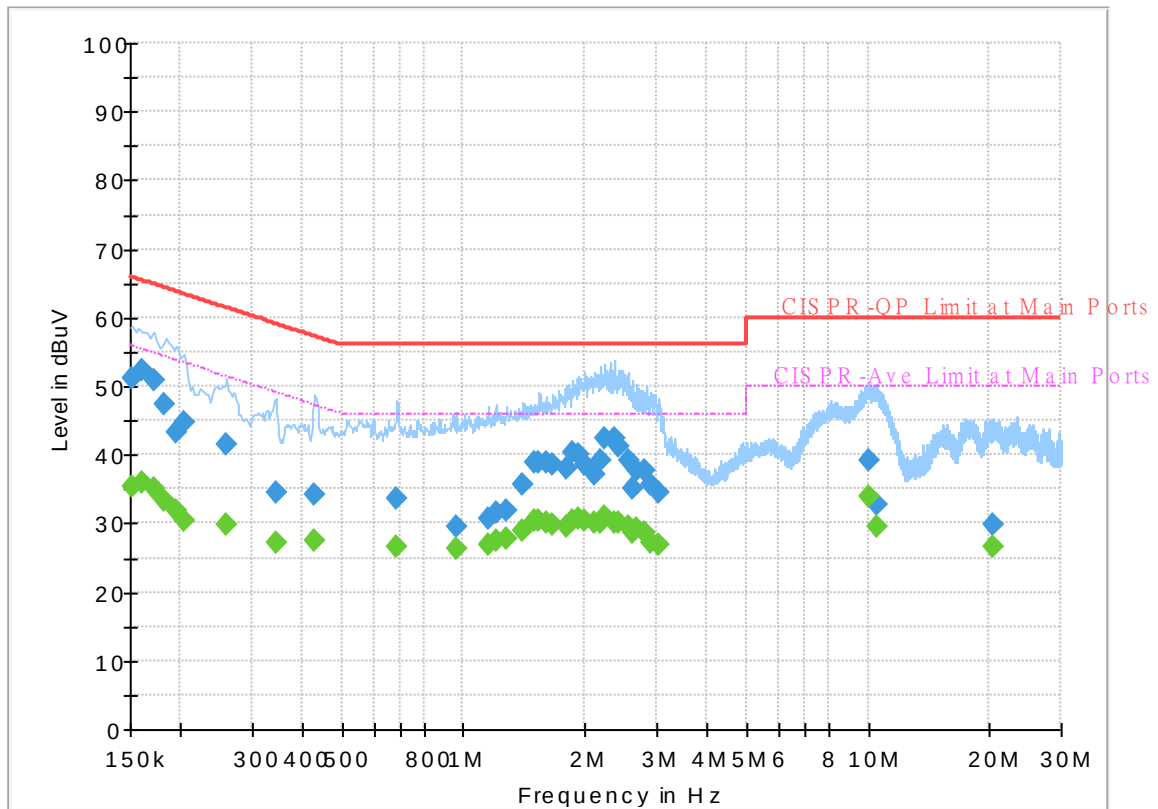
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	Temperature :	22~24℃
		Relative Humidity :	52~55%

EUT Information

Report NO : 940344-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



Final Result

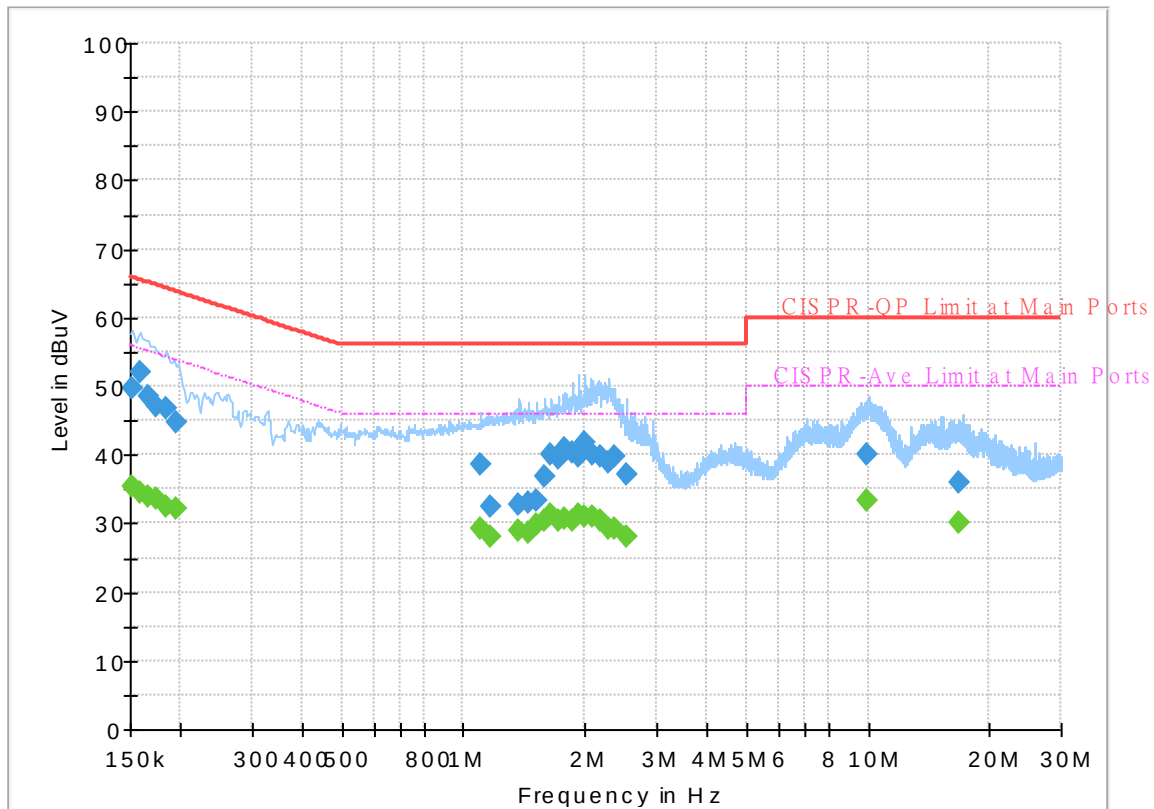
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	35.40	55.88	20.48	L1	OFF	19.4
0.152250	51.29	---	65.88	14.59	L1	OFF	19.4
0.161250	---	36.01	55.40	19.39	L1	OFF	19.4
0.161250	52.38	---	65.40	13.02	L1	OFF	19.4
0.172500	---	35.02	54.84	19.82	L1	OFF	19.4
0.172500	50.98	---	64.84	13.86	L1	OFF	19.4
0.181500	---	33.19	54.42	21.23	L1	OFF	19.4
0.181500	47.39	---	64.42	17.03	L1	OFF	19.4
0.195000	---	32.01	53.82	21.81	L1	OFF	19.4
0.195000	43.30	---	63.82	20.52	L1	OFF	19.4
0.204000	---	30.37	53.45	23.08	L1	OFF	19.4
0.204000	44.76	---	63.45	18.69	L1	OFF	19.4
0.260250	---	29.96	51.42	21.46	L1	OFF	19.4
0.260250	41.47	---	61.42	19.95	L1	OFF	19.4
0.343500	---	27.33	49.12	21.79	L1	OFF	19.4
0.343500	34.57	---	59.12	24.55	L1	OFF	19.4
0.429000	---	27.45	47.27	19.82	L1	OFF	19.4
0.429000	34.28	---	57.27	22.99	L1	OFF	19.4
0.685500	---	26.70	46.00	19.30	L1	OFF	19.4
0.685500	33.54	---	56.00	22.46	L1	OFF	19.4
0.960000	---	26.34	46.00	19.66	L1	OFF	19.5

0.960000	29.58	---	56.00	26.42	L1	OFF	19.5
1.151250	---	27.01	46.00	18.99	L1	OFF	19.5
1.151250	30.78	---	56.00	25.22	L1	OFF	19.5
1.200750	---	27.62	46.00	18.38	L1	OFF	19.5
1.200750	31.70	---	56.00	24.30	L1	OFF	19.5
1.277250	---	27.77	46.00	18.23	L1	OFF	19.5
1.277250	31.99	---	56.00	24.01	L1	OFF	19.5
1.405500	---	28.99	46.00	17.01	L1	OFF	19.5
1.405500	35.80	---	56.00	20.20	L1	OFF	19.5
1.497750	---	30.35	46.00	15.65	L1	OFF	19.5
1.497750	38.95	---	56.00	17.05	L1	OFF	19.5
1.540500	---	30.46	46.00	15.54	L1	OFF	19.5
1.540500	38.76	---	56.00	17.24	L1	OFF	19.5
1.599000	---	30.09	46.00	15.91	L1	OFF	19.5
1.599000	38.96	---	56.00	17.04	L1	OFF	19.5
1.664250	---	29.89	46.00	16.11	L1	OFF	19.5
1.664250	38.62	---	56.00	17.38	L1	OFF	19.5
1.790250	---	29.62	46.00	16.38	L1	OFF	19.5
1.790250	38.03	---	56.00	17.97	L1	OFF	19.5
1.855500	---	30.41	46.00	15.59	L1	OFF	19.5
1.855500	40.44	---	56.00	15.56	L1	OFF	19.5
1.923000	---	30.73	46.00	15.27	L1	OFF	19.5
1.923000	40.11	---	56.00	15.89	L1	OFF	19.5
1.990500	---	30.30	46.00	15.70	L1	OFF	19.5
1.990500	38.69	---	56.00	17.31	L1	OFF	19.5
2.116500	---	30.15	46.00	15.85	L1	OFF	19.5
2.116500	37.26	---	56.00	18.74	L1	OFF	19.5
2.179500	---	30.01	46.00	15.99	L1	OFF	19.5
2.179500	39.11	---	56.00	16.89	L1	OFF	19.5
2.242500	---	30.88	46.00	15.12	L1	OFF	19.5
2.242500	42.30	---	56.00	13.70	L1	OFF	19.5
2.364000	---	30.17	46.00	15.83	L1	OFF	19.5
2.364000	42.51	---	56.00	13.49	L1	OFF	19.5
2.427000	---	30.05	46.00	15.95	L1	OFF	19.5
2.427000	41.29	---	56.00	14.71	L1	OFF	19.5
2.546250	---	29.61	46.00	16.39	L1	OFF	19.5
2.546250	39.19	---	56.00	16.81	L1	OFF	19.5
2.613750	---	28.60	46.00	17.40	L1	OFF	19.5
2.613750	35.23	---	56.00	20.77	L1	OFF	19.5
2.679000	---	29.17	46.00	16.83	L1	OFF	19.5
2.679000	37.77	---	56.00	18.23	L1	OFF	19.5
2.796000	---	28.60	46.00	17.40	L1	OFF	19.5
2.796000	37.78	---	56.00	18.22	L1	OFF	19.5
2.913000	---	27.27	46.00	18.73	L1	OFF	19.5
2.913000	35.65	---	56.00	20.35	L1	OFF	19.5
3.041250	---	26.89	46.00	19.11	L1	OFF	19.5
3.041250	34.44	---	56.00	21.56	L1	OFF	19.5
10.081500	---	33.96	50.00	16.04	L1	OFF	19.8
10.081500	39.19	---	60.00	20.81	L1	OFF	19.8
10.538250	---	29.65	50.00	20.35	L1	OFF	19.8
10.538250	32.64	---	60.00	27.36	L1	OFF	19.8
20.258250	---	26.75	50.00	23.25	L1	OFF	20.2
20.258250	29.71	---	60.00	30.29	L1	OFF	20.2

EUT Information

Report NO : 940344-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	35.30	55.88	20.58	N	OFF	19.5
0.152250	49.62	---	65.88	16.26	N	OFF	19.5
0.159000	---	34.49	55.52	21.03	N	OFF	19.5
0.159000	52.00	---	65.52	13.52	N	OFF	19.5
0.165750	---	33.81	55.17	21.36	N	OFF	19.5
0.165750	48.50	---	65.17	16.67	N	OFF	19.5
0.174750	---	33.49	54.73	21.24	N	OFF	19.5
0.174750	47.04	---	64.73	17.69	N	OFF	19.5
0.183750	---	32.50	54.31	21.81	N	OFF	19.5
0.183750	46.93	---	64.31	17.38	N	OFF	19.5
0.195000	---	32.05	53.82	21.77	N	OFF	19.5
0.195000	44.66	---	63.82	19.16	N	OFF	19.5
1.099500	---	29.36	46.00	16.64	N	OFF	19.5
1.099500	38.48	---	56.00	17.52	N	OFF	19.5
1.164750	---	28.00	46.00	18.00	N	OFF	19.5
1.164750	32.40	---	56.00	23.60	N	OFF	19.5
1.374000	---	28.90	46.00	17.10	N	OFF	19.5
1.374000	32.64	---	56.00	23.36	N	OFF	19.5
1.443750	---	28.62	46.00	17.38	N	OFF	19.5
1.443750	33.12	---	56.00	22.88	N	OFF	19.5
1.513500	---	29.86	46.00	16.14	N	OFF	19.5

1.513500	33.43	---	56.00	22.57	N	OFF	19.5
1.581000	---	30.41	46.00	15.59	N	OFF	19.5
1.581000	36.93	---	56.00	19.07	N	OFF	19.5
1.650750	---	31.25	46.00	14.75	N	OFF	19.6
1.650750	39.93	---	56.00	16.07	N	OFF	19.6
1.718250	---	30.35	46.00	15.65	N	OFF	19.6
1.718250	39.41	---	56.00	16.59	N	OFF	19.6
1.785750	---	30.63	46.00	15.37	N	OFF	19.6
1.785750	40.80	---	56.00	15.20	N	OFF	19.6
1.855500	---	30.45	46.00	15.55	N	OFF	19.6
1.855500	40.27	---	56.00	15.73	N	OFF	19.6
1.925250	---	31.25	46.00	14.75	N	OFF	19.6
1.925250	39.85	---	56.00	16.15	N	OFF	19.6
1.995000	---	31.10	46.00	14.90	N	OFF	19.6
1.995000	41.74	---	56.00	14.26	N	OFF	19.6
2.089500	---	31.05	46.00	14.95	N	OFF	19.6
2.089500	39.98	---	56.00	16.02	N	OFF	19.6
2.170500	---	30.39	46.00	15.61	N	OFF	19.6
2.170500	39.67	---	56.00	16.33	N	OFF	19.6
2.285250	---	29.32	46.00	16.68	N	OFF	19.6
2.285250	39.01	---	56.00	16.99	N	OFF	19.6
2.357250	---	29.34	46.00	16.66	N	OFF	19.6
2.357250	39.79	---	56.00	16.21	N	OFF	19.6
2.521500	---	28.10	46.00	17.90	N	OFF	19.6
2.521500	37.23	---	56.00	18.77	N	OFF	19.6
9.924000	---	33.45	50.00	16.55	N	OFF	19.9
9.924000	39.97	---	60.00	20.03	N	OFF	19.9
16.811250	---	30.21	50.00	19.79	N	OFF	20.1
16.811250	36.06	---	60.00	23.94	N	OFF	20.1



Appendix C. Radiated Spurious Emission

Test Engineer :	Ryan Lin, JC Liang and Wilson Wu	Temperature :	21.5~23.5°C
		Relative Humidity :	46.5~49.5%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2387.28	53.65	-20.35	74	41.68	27.63	13.92	29.58	100	67	P	H
		2387.595	43.77	-10.23	54	31.81	27.62	13.92	29.58	100	67	A	H
	*	2412	112.04	-	-	100.1	27.58	13.94	29.58	100	67	P	H
	*	2412	108.93	-	-	96.99	27.58	13.94	29.58	100	67	A	H
		2385.285	55.12	-18.88	74	43.15	27.63	13.92	29.58	142	21	P	V
		2385.285	46.4	-7.6	54	34.43	27.63	13.92	29.58	142	21	A	V
	*	2412	114.3	-	-	102.36	27.58	13.94	29.58	142	21	P	V
	*	2412	111.16	-	-	99.22	27.58	13.94	29.58	142	21	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 06 2437MHz		2368.52	53.65	-20.35	74	41.68	27.66	13.9	29.59	238	9	P	H
		2389.94	42.72	-11.28	54	30.76	27.62	13.92	29.58	238	9	A	H
	*	2437	111.5	-	-	99.59	27.53	13.96	29.58	238	9	P	H
	*	2437	108.5	-	-	96.59	27.53	13.96	29.58	238	9	A	H
		2487.4	53.79	-20.21	74	41.86	27.5	14	29.57	238	9	P	H
		2484.39	42.64	-11.36	54	30.71	27.5	14	29.57	238	9	A	H
		2330.58	53.7	-20.3	74	41.56	27.86	13.87	29.59	254	28	P	V
		2382.1	42.54	-11.46	54	30.56	27.64	13.92	29.58	254	28	A	V
	*	2437	112.05	-	-	100.14	27.53	13.96	29.58	254	28	P	V
	*	2437	108.9	-	-	96.99	27.53	13.96	29.58	254	28	A	V
		2489.71	53.82	-20.18	74	41.88	27.5	14.01	29.57	254	28	P	V
		2484.53	42.47	-11.53	54	30.54	27.5	14	29.57	254	28	A	V
802.11b CH 11 2462MHz	*	2462	111.43	-	-	99.52	27.5	13.98	29.57	290	9	P	H
	*	2462	108.33	-	-	96.42	27.5	13.98	29.57	290	9	A	H
		2483.56	54.85	-19.15	74	42.92	27.5	14	29.57	290	9	P	H
		2483.52	47.57	-6.43	54	35.64	27.5	14	29.57	290	9	A	H
	*	2462	112.63	-	-	100.72	27.5	13.98	29.57	111	237	P	V
	*	2462	109.53	-	-	97.62	27.5	13.98	29.57	111	237	A	V
		2487.68	56.58	-17.42	74	44.65	27.5	14	29.57	111	237	P	V
		2487.48	48.97	-5.03	54	37.04	27.5	14	29.57	111	237	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz	*	2467	109.86	-	-	97.94	27.5	13.99	29.57	262	9	P	H
	*	2467	106.8	-	-	94.88	27.5	13.99	29.57	262	9	A	H
		2484.24	57.54	-16.46	74	45.61	27.5	14	29.57	262	9	P	H
		2484.44	51.67	-2.33	54	39.74	27.5	14	29.57	262	9	A	H
	*	2467	111.05	-	-	99.13	27.5	13.99	29.57	111	235	P	V
	*	2467	107.94	-	-	96.02	27.5	13.99	29.57	111	235	A	V
		2484.44	56.85	-17.15	74	44.92	27.5	14	29.57	111	235	P	V
		2484.52	50.4	-3.6	54	38.47	27.5	14	29.57	111	235	A	V
802.11b CH 13 2472MHz	*	2472	106	-	-	94.08	27.5	13.99	29.57	233	17	P	H
	*	2472	103.07	-	-	91.15	27.5	13.99	29.57	233	17	A	H
		2485.2	58.07	-15.93	74	46.14	27.5	14	29.57	233	17	P	H
		2484.92	51.37	-2.63	54	39.44	27.5	14	29.57	233	17	A	H
	*	2472	109.58	-	-	97.66	27.5	13.99	29.57	153	20	P	V
	*	2472	106.49	-	-	94.57	27.5	13.99	29.57	153	20	A	V
		2486.96	58.76	-15.24	74	46.83	27.5	14	29.57	153	20	P	V
		2487.16	52.51	-1.49	54	40.58	27.5	14	29.57	153	20	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b		4824	48.17	-25.83	74	68	31.3	6.42	57.55	100	0	P	H
CH 01		4824	52.97	-21.03	74	72.8	31.3	6.42	57.55	203	89	P	V
2412MHz		4824	51.56	-2.44	54	71.39	31.3	6.42	57.55	203	89	A	V
802.11b CH 06 2437MHz		4874	49.35	-24.65	74	68.99	31.25	6.56	57.45	100	0	P	H
		7311	56.33	-17.67	74	68.7	36.7	8.2	57.27	100	16	P	H
		7311	52.33	-1.67	54	64.7	36.7	8.2	57.27	100	16	A	H
		4874	53.49	-20.51	74	73.13	31.25	6.56	57.45	207	84	P	V
		4874	53.02	-0.98	54	72.66	31.25	6.56	57.45	207	84	A	V
		7311	55.03	-18.97	74	67.4	36.7	8.2	57.27	100	41	P	V
		7311	51.04	-2.96	54	63.41	36.7	8.2	57.27	100	41	A	V
802.11b CH 11 2462MHz		4924	47.56	-26.44	74	66.91	31.3	6.7	57.35	100	0	P	H
		7386	54.91	-19.09	74	67.5	36.63	8.14	57.36	146	347	P	H
		7386	50.89	-3.11	54	63.48	36.63	8.14	57.36	146	347	A	H
		4924	52.18	-21.82	74	71.53	31.3	6.7	57.35	204	86	P	V
		4924	50.37	-3.63	54	69.72	31.3	6.7	57.35	204	86	A	V
		7386	55.98	-18.02	74	68.57	36.63	8.14	57.36	315	355	P	V
		7386	51.99	-2.01	54	64.58	36.63	8.14	57.36	315	355	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz		4934	49.11	-24.89	74	68.37	31.34	6.73	57.33	100	0	P	H
		7401	48.43	-25.57	74	61.08	36.6	8.13	57.38	100	0	P	H
		4934	53.85	-20.15	74	73.11	31.34	6.73	57.33	205	92	P	V
		4934	51.92	-2.08	54	71.18	31.34	6.73	57.33	205	92	A	V
		7401	48.15	-25.85	74	60.8	36.6	8.13	57.38	100	0	P	V
802.11b CH 13 2472MHz		4944	42.84	-31.16	74	62.01	31.38	6.76	57.31	100	0	P	H
		7416	44.25	-29.75	74	56.86	36.63	8.16	57.4	100	0	P	H
		4944	47.1	-26.9	74	66.27	31.38	6.76	57.31	100	0	P	V
		7416	43.87	-30.13	74	56.48	36.63	8.16	57.4	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.275	63.57	-10.43	74	51.61	27.62	13.92	29.58	337	336	P	H
		2389.065	49.14	-4.86	54	37.18	27.62	13.92	29.58	337	336	A	H
	*	2412	109.37	-	-	97.43	27.58	13.94	29.58	337	336	P	H
	*	2412	102.67	-	-	90.73	27.58	13.94	29.58	337	336	A	H
		2389.905	69.19	-4.81	74	57.23	27.62	13.92	29.58	200	79	P	V
		2390	52.62	-1.38	54	40.66	27.62	13.92	29.58	200	79	A	V
	*	2412	110.78	-	-	98.84	27.58	13.94	29.58	200	79	P	V
	*	2412	104.09	-	-	92.15	27.58	13.94	29.58	200	79	A	V
802.11g CH 06 2437MHz		2311.82	52.89	-21.11	74	40.61	28.01	13.86	29.59	325	328	P	H
		2389.8	42.18	-11.82	54	30.22	27.62	13.92	29.58	325	328	A	H
	*	2437	111.48	-	-	99.57	27.53	13.96	29.58	325	328	P	H
	*	2437	104.17	-	-	92.26	27.53	13.96	29.58	325	328	A	H
		2485.86	53.31	-20.69	74	41.38	27.5	14	29.57	325	328	P	H
		2483.5	42.21	-11.79	54	30.28	27.5	14	29.57	325	328	A	H
		2371.6	53.72	-20.28	74	41.74	27.66	13.91	29.59	233	78	P	V
		2389.24	42.49	-11.51	54	30.53	27.62	13.92	29.58	233	78	A	V
	*	2437	113.96	-	-	102.05	27.53	13.96	29.58	233	78	P	V
	*	2437	107.06	-	-	95.15	27.53	13.96	29.58	233	78	A	V
		2484.11	55.88	-18.12	74	43.95	27.5	14	29.57	233	78	P	V
		2484.04	43.11	-10.89	54	31.18	27.5	14	29.57	233	78	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 11 2462MHz	*	2462	110.47	-	-	98.56	27.5	13.98	29.57	351	342	P	H
	*	2462	103.5	-	-	91.59	27.5	13.98	29.57	351	342	A	H
		2483.56	66.06	-7.94	74	54.13	27.5	14	29.57	351	342	P	H
		2484.28	51.15	-2.85	54	39.22	27.5	14	29.57	351	342	A	H
	*	2462	111.7	-	-	99.79	27.5	13.98	29.57	256	66	P	V
	*	2462	104.96	-	-	93.05	27.5	13.98	29.57	256	66	A	V
		2485.48	67.44	-6.56	74	55.51	27.5	14	29.57	256	66	P	V
		2483.52	53.09	-0.91	54	41.16	27.5	14	29.57	256	66	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz	*	2467	105.59	-	-	93.67	27.5	13.99	29.57	352	341	P	H
	*	2467	98.75	-	-	86.83	27.5	13.99	29.57	352	341	A	H
		2483.52	68.15	-5.85	74	56.22	27.5	14	29.57	352	341	P	H
		2483.52	47.6	-6.4	54	35.67	27.5	14	29.57	352	341	A	H
	*	2467	107.39	-	-	95.47	27.5	13.99	29.57	258	67	P	V
	*	2467	100.74	-	-	88.82	27.5	13.99	29.57	258	67	A	V
		2483.68	71.64	-2.36	74	59.71	27.5	14	29.57	258	67	P	V
		2483.52	49.53	-4.47	54	37.6	27.5	14	29.57	258	67	A	V
802.11g CH 13 2472MHz	*	2472	104.79	-	-	92.87	27.5	13.99	29.57	352	341	P	H
	*	2472	97.9	-	-	85.98	27.5	13.99	29.57	352	341	A	H
		2486.92	70.14	-3.86	74	58.21	27.5	14	29.57	352	341	P	H
		2483.52	49.75	-4.25	54	37.82	27.5	14	29.57	352	341	A	H
	*	2472	106.36	-	-	94.44	27.5	13.99	29.57	262	76	P	V
	*	2472	99.66	-	-	87.74	27.5	13.99	29.57	262	76	A	V
		2487.24	71.86	-2.14	74	59.93	27.5	14	29.57	262	76	P	V
		2483.52	51.64	-2.36	54	39.71	27.5	14	29.57	262	76	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	46.61	-27.39	74	66.44	31.3	6.42	57.55	100	0	P	H
		4824	49.26	-24.74	74	69.09	31.3	6.42	57.55	100	0	P	V
802.11g CH 06 2437MHz		4874	47.24	-26.76	74	66.88	31.25	6.56	57.45	100	0	P	H
		7311	57.34	-16.66	74	69.71	36.7	8.2	57.27	184	350	P	H
		7311	45.32	-8.68	54	57.69	36.7	8.2	57.27	184	350	A	H
		4874	49.76	-24.24	74	69.4	31.25	6.56	57.45	100	0	P	V
		7311	57.24	-16.76	74	69.61	36.7	8.2	57.27	310	355	P	V
		7311	45.09	-8.91	54	57.46	36.7	8.2	57.27	310	355	A	V
802.11g CH 11 2462MHz		4924	43.85	-30.15	74	63.2	31.3	6.7	57.35	100	0	P	H
		7386	48.31	-25.69	74	60.9	36.63	8.14	57.36	100	0	P	H
		4924	48.71	-25.29	74	68.06	31.3	6.7	57.35	100	0	P	V
		7386	48.08	-25.92	74	60.67	36.63	8.14	57.36	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz		4934	40.76	-33.24	74	60.02	31.34	6.73	57.33	100	0	P	H
		7401	46.38	-27.62	74	59.03	36.6	8.13	57.38	100	0	P	H
		4934	44.9	-29.1	74	64.16	31.34	6.73	57.33	100	0	P	V
		7401	44.98	-29.02	74	57.63	36.6	8.13	57.38	100	0	P	V
802.11g CH 13 2472MHz		4944	41.31	-32.69	74	60.48	31.38	6.76	57.31	100	0	P	H
		7416	44.56	-29.44	74	57.17	36.63	8.16	57.4	100	0	P	H
		4944	45.74	-28.26	74	64.91	31.38	6.76	57.31	100	0	P	V
		7416	43.82	-30.18	74	56.43	36.63	8.16	57.4	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.38	67.86	-6.14	74	55.9	27.62	13.92	29.58	241	15	P	H
		2390	50.8	-3.2	54	38.84	27.62	13.92	29.58	241	15	A	H
	*	2412	109.44	-	-	97.5	27.58	13.94	29.58	241	15	P	H
	*	2412	101.25	-	-	89.31	27.58	13.94	29.58	241	15	A	H
		2389.905	64.88	-9.12	74	52.92	27.62	13.92	29.58	199	81	P	V
		2390	51.98	-2.02	54	40.02	27.62	13.92	29.58	199	81	A	V
	*	2412	111.09	-	-	99.15	27.58	13.94	29.58	199	81	P	V
	*	2412	102.06	-	-	90.12	27.58	13.94	29.58	199	81	A	V
802.11n HT20 CH 06 2437MHz		2377.48	53.72	-20.28	74	41.74	27.65	13.91	29.58	236	17	P	H
		2389.94	42.79	-11.21	54	30.83	27.62	13.92	29.58	236	17	A	H
	*	2437	111.21	-	-	99.3	27.53	13.96	29.58	236	17	P	H
	*	2437	102.71	-	-	90.8	27.53	13.96	29.58	236	17	A	H
		2483.62	53.5	-20.5	74	41.57	27.5	14	29.57	236	17	P	H
		2483.97	42.03	-11.97	54	30.1	27.5	14	29.57	236	17	A	H
		2388.68	53.49	-20.51	74	41.53	27.62	13.92	29.58	233	78	P	V
		2389.24	42.41	-11.59	54	30.45	27.62	13.92	29.58	233	78	A	V
	*	2437	113.07	-	-	101.16	27.53	13.96	29.58	233	78	P	V
	*	2437	104.58	-	-	92.67	27.53	13.96	29.58	233	78	A	V
		2495.24	53.05	-20.95	74	41.11	27.5	14.01	29.57	233	78	P	V
		2483.5	42.87	-11.13	54	30.94	27.5	14	29.57	233	78	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 11 2462MHz	*	2462	107.96	-	-	96.05	27.5	13.98	29.57	234	15	P	H
	*	2462	99.83	-	-	87.92	27.5	13.98	29.57	234	15	A	H
		2483.6	64.83	-9.17	74	52.9	27.5	14	29.57	234	15	P	H
		2483.52	47.65	-6.35	54	35.72	27.5	14	29.57	234	15	A	H
	*	2462	110.55	-	-	98.64	27.5	13.98	29.57	258	78	P	V
	*	2462	102.59	-	-	90.68	27.5	13.98	29.57	258	78	A	V
		2483.56	66.51	-7.49	74	54.58	27.5	14	29.57	258	78	P	V
		2483.52	52.57	-1.43	54	40.64	27.5	14	29.57	258	78	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 12 2467MHz	*	2467	105.34	-	-	93.42	27.5	13.99	29.57	232	15	P	H
	*	2467	97.19	-	-	85.27	27.5	13.99	29.57	232	15	A	H
		2483.6	67.84	-6.16	74	55.91	27.5	14	29.57	232	15	P	H
		2483.52	48.95	-5.05	54	37.02	27.5	14	29.57	232	15	A	H
	*	2467	107.9	-	-	95.98	27.5	13.99	29.57	261	76	P	V
	*	2467	99.81	-	-	87.89	27.5	13.99	29.57	261	76	A	V
		2483.52	70.69	-3.31	74	58.76	27.5	14	29.57	261	76	P	V
		2483.52	52.07	-1.93	54	40.14	27.5	14	29.57	261	76	A	V
802.11n HT20 CH 13 2472MHz	*	2472	104.69	-	-	92.77	27.5	13.99	29.57	260	14	P	H
	*	2472	96.16	-	-	84.24	27.5	13.99	29.57	260	14	A	H
		2485.4	65.11	-8.89	74	53.18	27.5	14	29.57	260	14	P	H
		2483.52	48.15	-5.85	54	36.22	27.5	14	29.57	260	14	A	H
	*	2472	107.22	-	-	95.3	27.5	13.99	29.57	223	80	P	V
	*	2472	98.5	-	-	86.58	27.5	13.99	29.57	223	80	A	V
		2483.76	69.4	-4.6	74	57.47	27.5	14	29.57	223	80	P	V
		2483.52	51.53	-2.47	54	39.6	27.5	14	29.57	223	80	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	44	-30	74	63.83	31.3	6.42	57.55	100	0	P	H
		4824	46.06	-27.94	74	65.89	31.3	6.42	57.55	100	0	P	V
802.11n HT20 CH 06 2437MHz		4874	45.78	-28.22	74	65.42	31.25	6.56	57.45	100	0	P	H
		7311	54.42	-19.58	74	66.79	36.7	8.2	57.27	108	0	P	H
		7311	41.34	-12.66	54	53.71	36.7	8.2	57.27	108	0	A	H
		4874	48.7	-25.3	74	68.34	31.25	6.56	57.45	100	0	P	V
		7311	52.31	-21.69	74	64.68	36.7	8.2	57.27	100	248	P	V
		7311	39.71	-14.29	54	52.08	36.7	8.2	57.27	100	248	A	V
802.11n HT20 CH 11 2462MHz		4924	41.63	-32.37	74	60.98	31.3	6.7	57.35	100	0	P	H
		7386	45.66	-28.34	74	58.25	36.63	8.14	57.36	100	0	P	H
		4924	47.6	-26.4	74	66.95	31.3	6.7	57.35	100	0	P	V
		7386	44.09	-29.91	74	56.68	36.63	8.14	57.36	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 12 2467MHz		4934	41.46	-32.54	74	60.72	31.34	6.73	57.33	100	0	P	H
		7401	42.94	-31.06	74	55.59	36.6	8.13	57.38	100	0	P	H
		4934	46.97	-27.03	74	66.23	31.34	6.73	57.33	100	0	P	V
		7401	42.32	-31.68	74	54.97	36.6	8.13	57.38	100	0	P	V
802.11n HT20 CH 13 2472MHz		4944	40.34	-33.66	74	59.51	31.38	6.76	57.31	100	0	P	H
		7416	43.35	-30.65	74	55.96	36.63	8.16	57.4	100	0	P	H
		4944	47.39	-26.61	74	66.56	31.38	6.76	57.31	100	0	P	V
		7416	42.85	-31.15	74	55.46	36.63	8.16	57.4	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11g LF		125.06	34.73	-8.77	43.5	48.75	17.2	0.97	32.19	100	0	P	H
		221.09	27.31	-18.69	46	43.1	15.07	1.28	32.14	-	-	P	H
		368.53	34.06	-11.94	46	44.16	20.44	1.62	32.16	-	-	P	H
		399.57	32.48	-13.52	46	41.38	21.49	1.77	32.16	-	-	P	H
		717.73	32.92	-13.08	46	35.98	26.71	2.28	32.05	-	-	P	H
		975.75	33.72	-20.28	54	31.38	30.39	2.72	30.77	-	-	P	H
		63.95	30.44	-9.56	40	50.38	11.69	0.64	32.27	100	0	P	V
		111.48	28.81	-14.69	43.5	43.6	16.5	0.91	32.2	-	-	P	V
		399.57	30.59	-15.41	46	39.49	21.49	1.77	32.16	-	-	P	V
		600.36	29.38	-16.62	46	34.29	25.21	2.12	32.24	-	-	P	V
		729.37	36.24	-9.76	46	38.7	27.27	2.3	32.03	-	-	P	V
		964.11	33.86	-20.14	54	31.42	30.62	2.69	30.87	-	-	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.
!	Test result is over limit line.
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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path 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) + Path 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 D. Radiated Spurious Emission Plots

Test Engineer :	Ryan Lin, JC Liang and Wilson Wu	Temperature :	21.5~23.5°C
		Relative Humidity :	46.5~49.5%

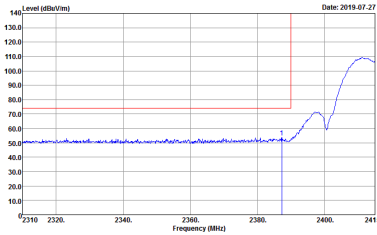
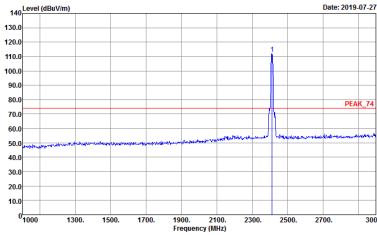
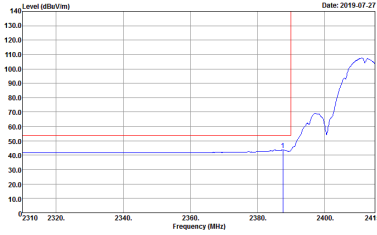
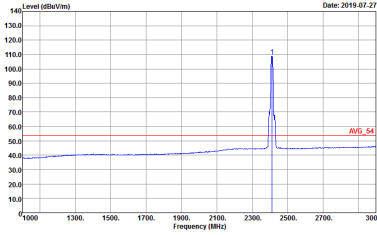
Note symbol

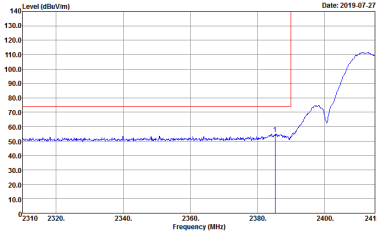
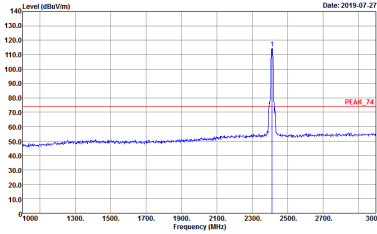
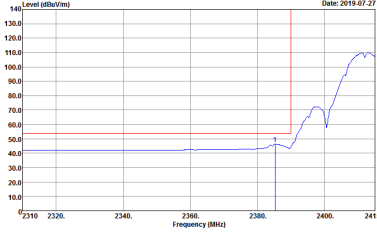
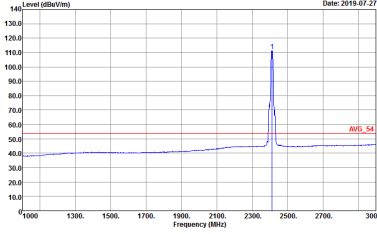
-L	Low channel location
-R	High channel location

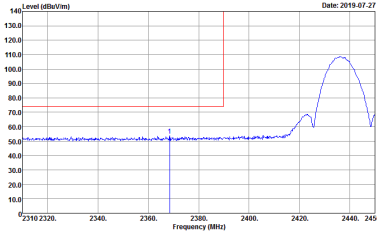
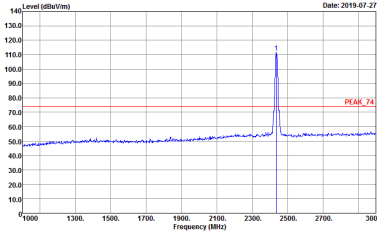
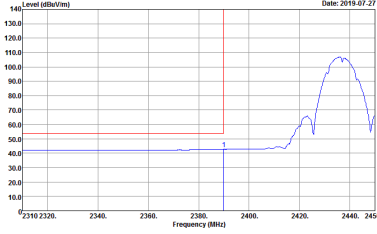
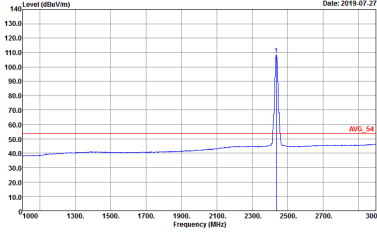


2.4GHz 2400~2483.5MHz

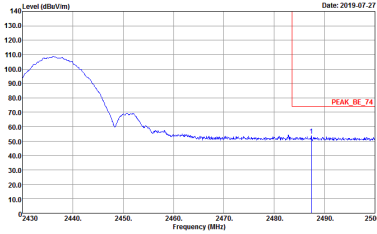
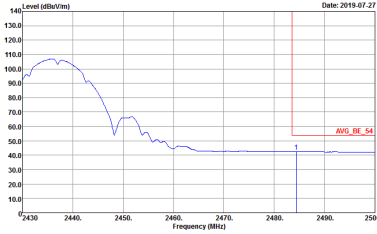
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 10 Power : 19	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 10 Power : 19
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 10 Power : 19	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 10 Power : 19

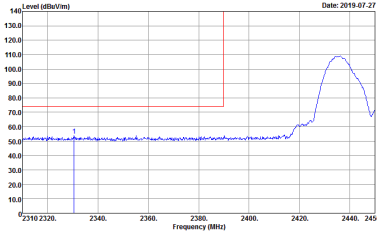
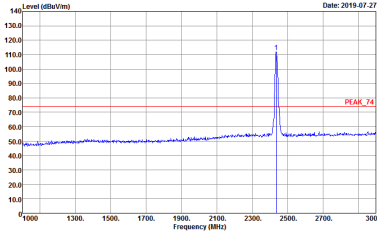
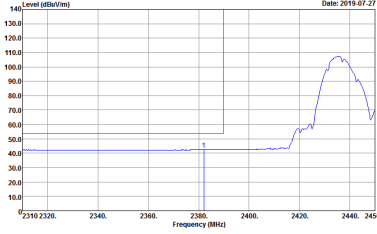
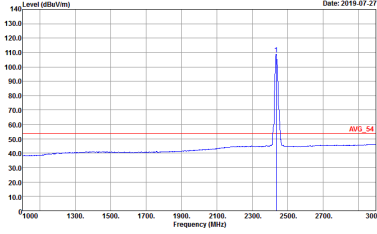
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 10 Power : 19	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 10 Power : 19
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 10 Power : 19	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 10 Power : 19
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 11 Power : 19	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 11 Power : 19
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 11 Power : 19	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 11 Power : 19

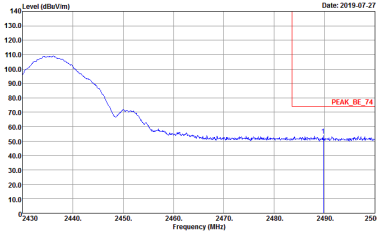
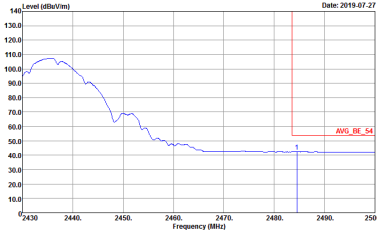


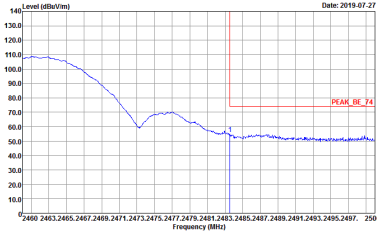
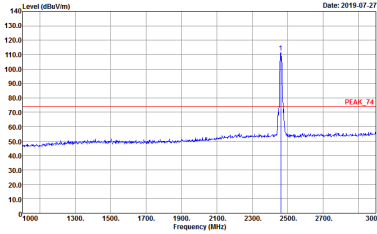
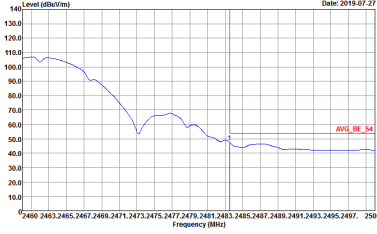
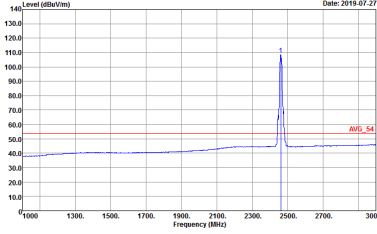
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 11 Power : 19	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 11 Power : 19	Left blank

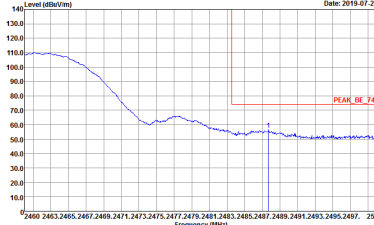
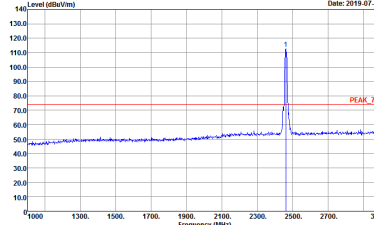
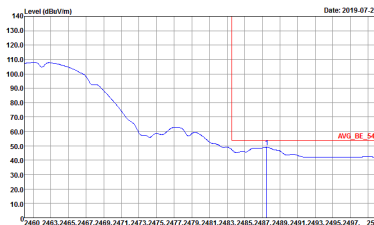
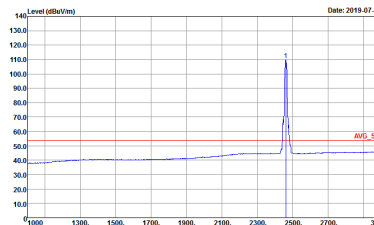


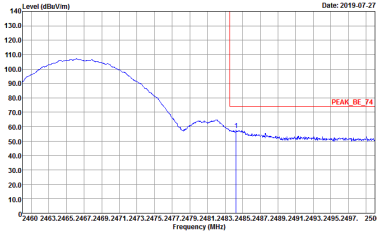
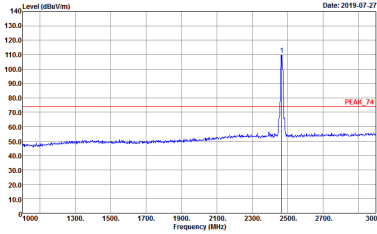
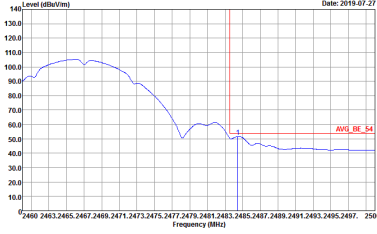
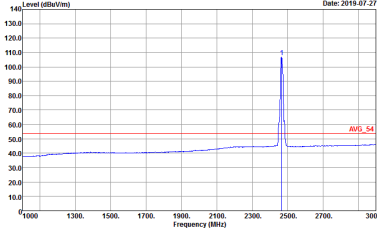
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 11 Power : 19	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 11 Power : 19
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 11 Power : 19	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 11 Power : 19



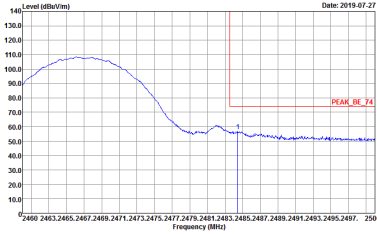
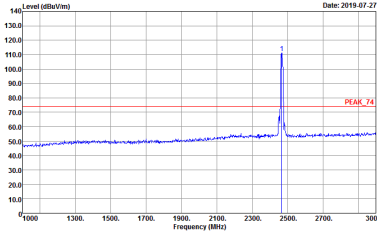
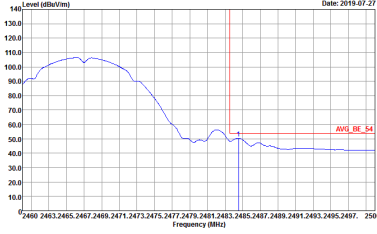
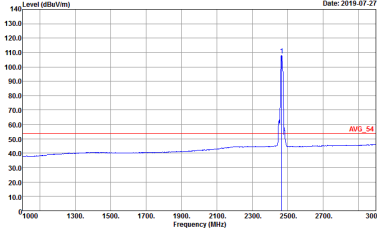
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 11 Power : 19	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 11 Power : 19	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 12 Power : 19	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 12 Power : 19
	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 12 Power : 19	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 12 Power : 19
Avg.		

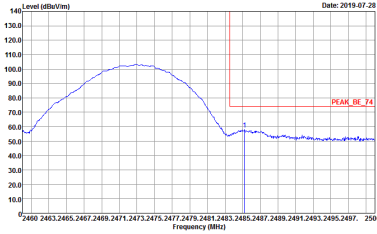
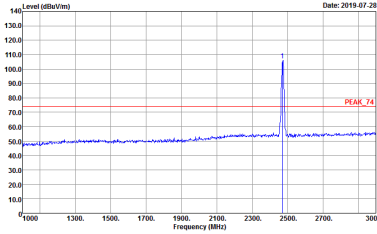
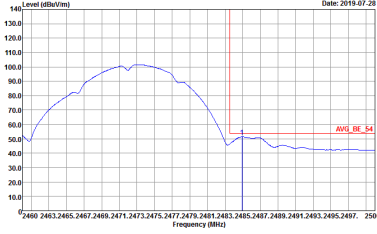
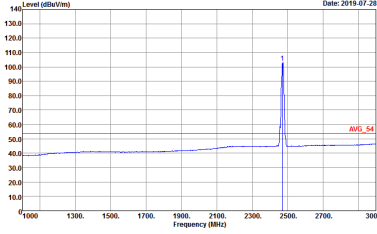
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 12 Power : 19	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 12 Power : 19
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 12 Power : 19	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 12 Power : 19
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 13 Power : 17.5	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 13 Power : 17.5
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 13 Power : 17.5	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 13 Power : 17.5

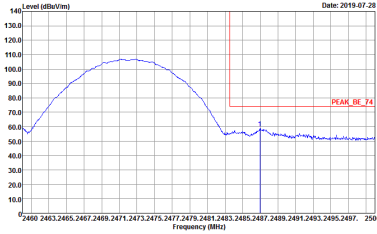
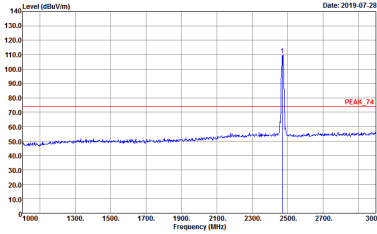
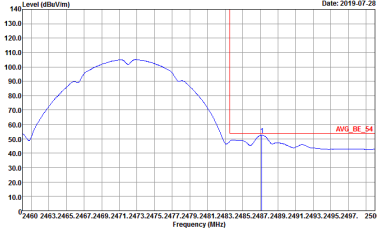
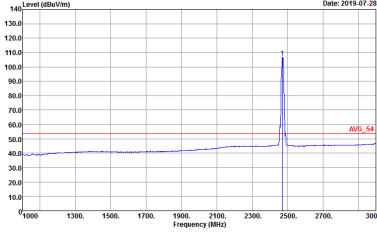


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 13	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 13
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 13	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 13



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 14 Power : 13.5	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 14 Power : 13.5
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 14 Power : 13.5	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 14 Power : 13.5

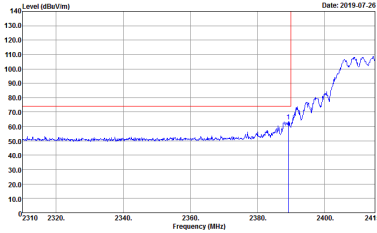
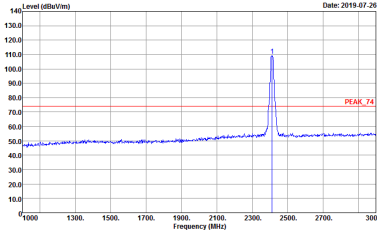
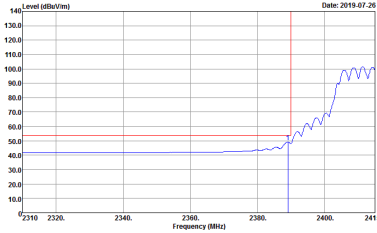
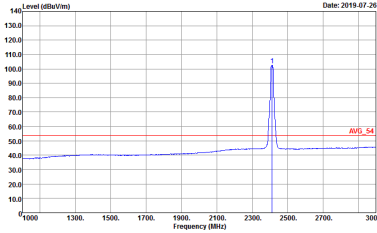


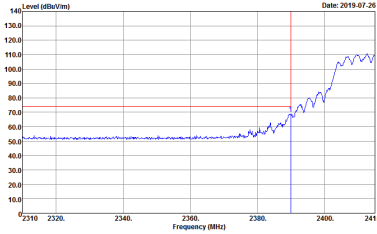
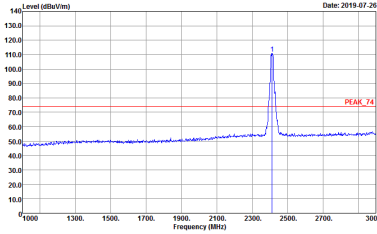
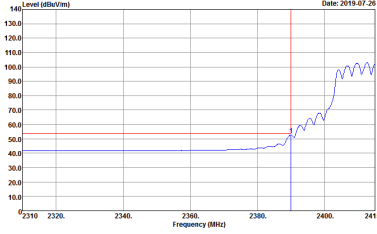
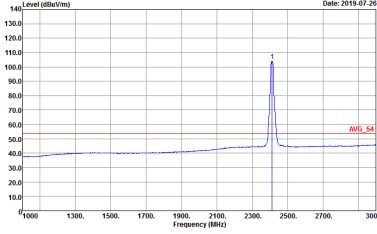
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 14 Power : 13.5	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 14 Power : 13.5
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 14 Power : 13.5	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 14 Power : 13.5

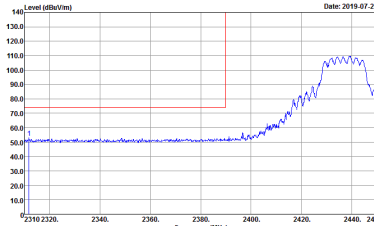
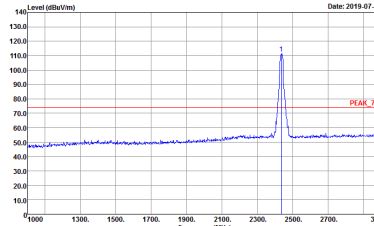
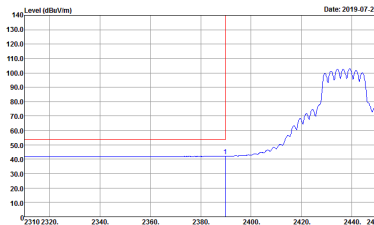
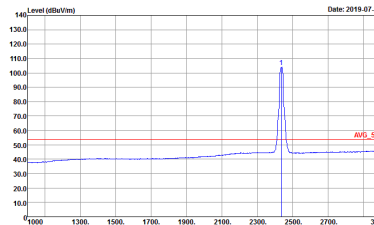


2.4GHz 2400~2483.5MHz

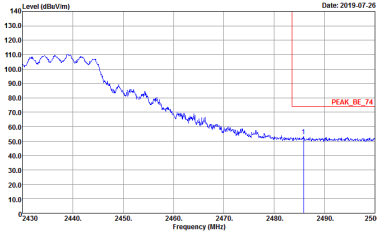
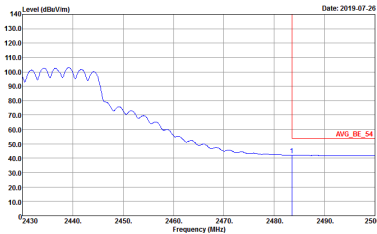
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 15 Power : 16	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 15 Power : 16
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 15 Power : 16	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 15 Power : 16

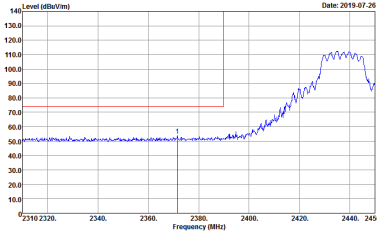
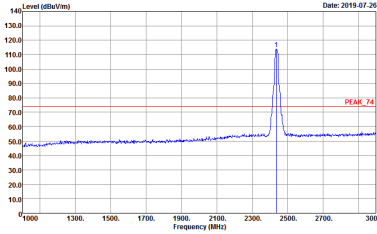
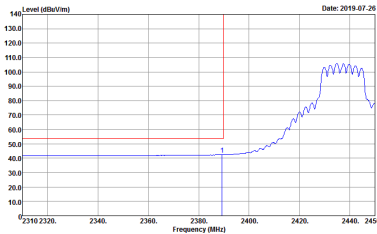
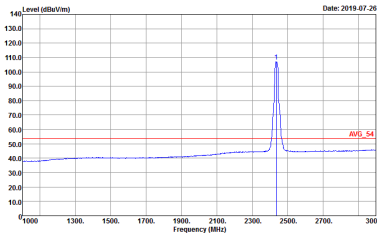
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 15 Power : 16	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 15 Power : 16
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 15 Power : 16	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 15 Power : 16
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 16 Power : 18	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 16 Power : 18
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 16 Power : 18	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 16 Power : 18

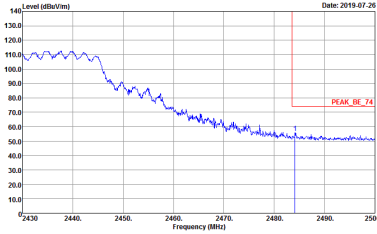
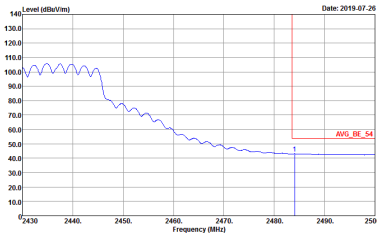


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 16 Power : 18	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 16 Power : 18	Left blank

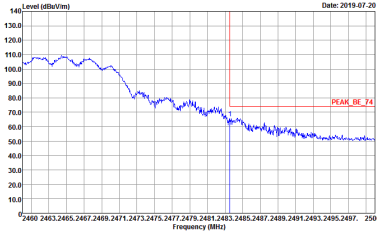
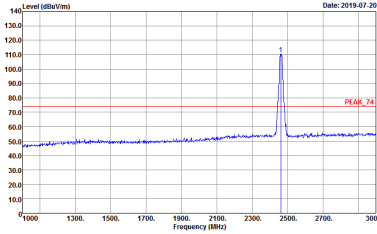
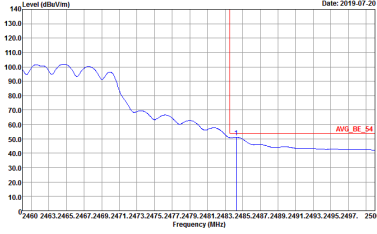
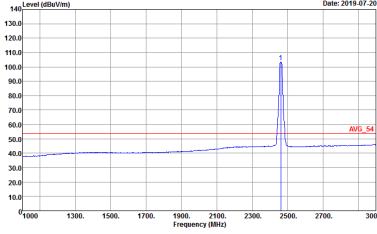


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 16 Power : 18	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 16 Power : 18
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 16 Power : 18	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 16 Power : 18

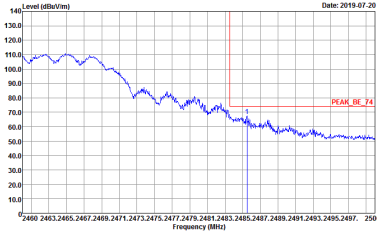
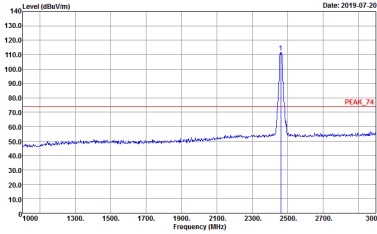
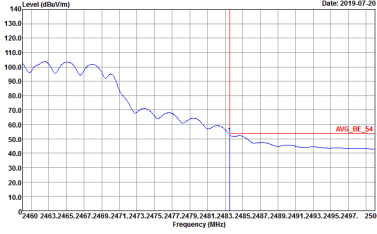
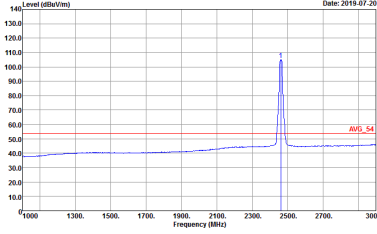


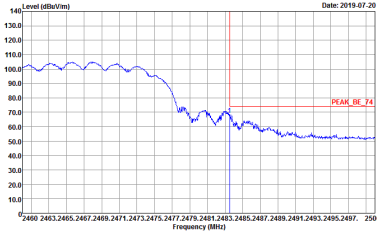
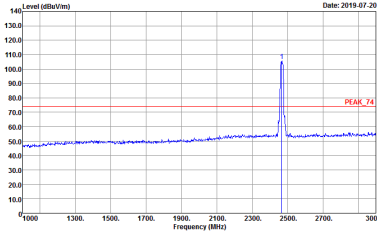
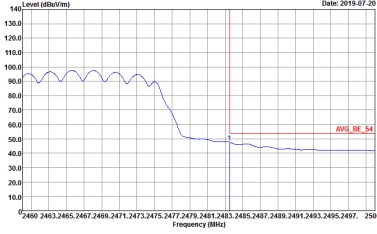
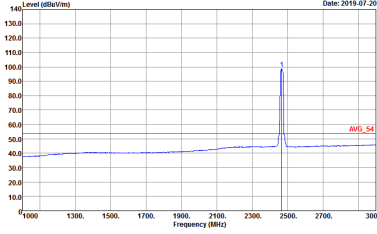
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 16 Power : 18	Left Blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 16 Power : 18	Left Blank

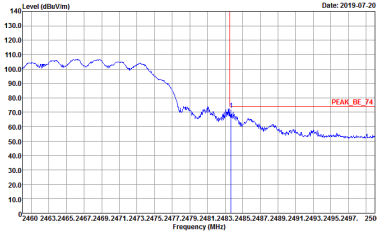
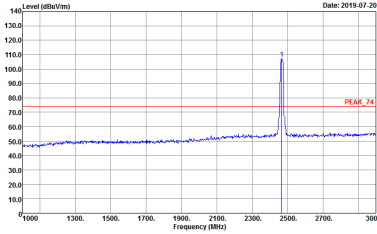
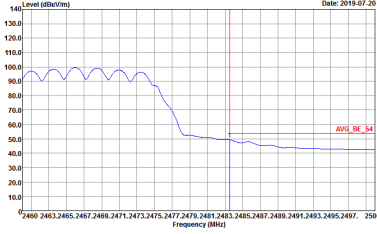
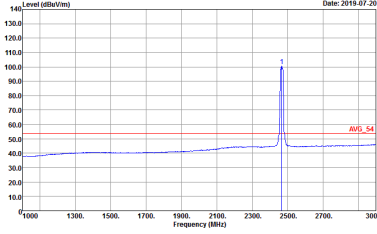


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 17 Power : 15.5	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 17 Power : 15.5
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 17 Power : 15.5	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 17 Power : 15.5

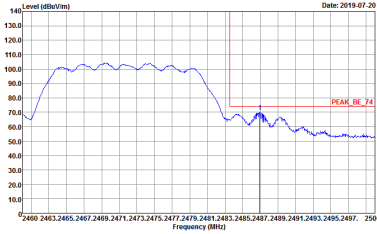
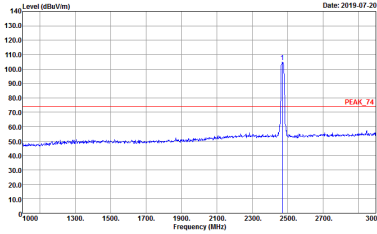
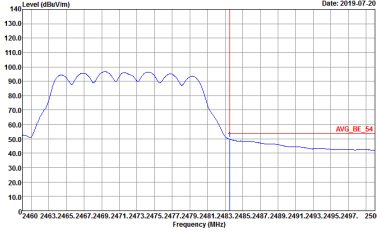
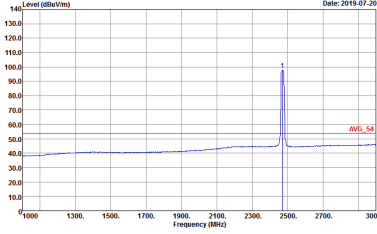


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 17 Power : 15.5	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 17 Power : 15.5
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 17 Power : 15.5	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 17 Power : 15.5

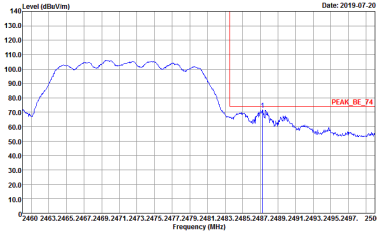
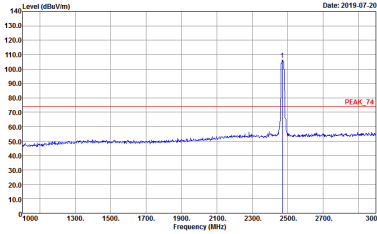
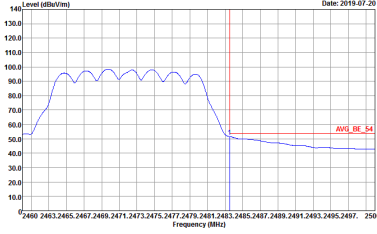
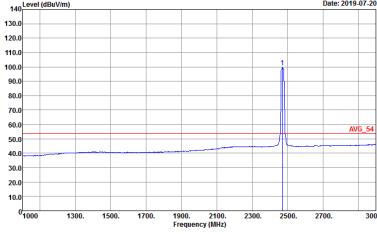
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 18 Power : 10.5	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 18 Power : 10.5
	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 18 Power : 10.5	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 18 Power : 10.5
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 18 Power : 10.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 18 Power : 10.5
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 18 Power : 10.5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 18 Power : 10.5
Avg.		

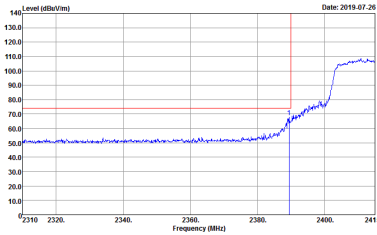
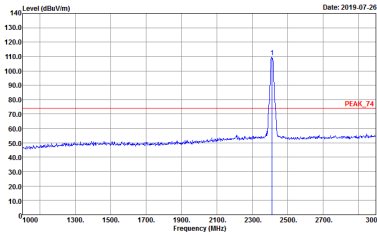
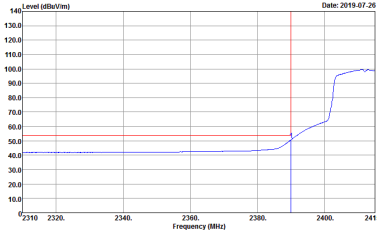
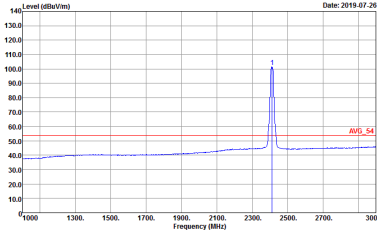


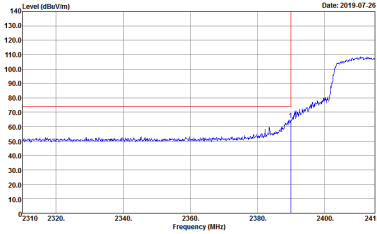
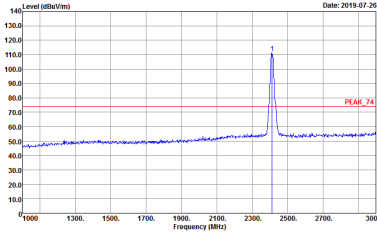
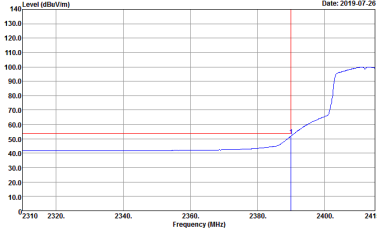
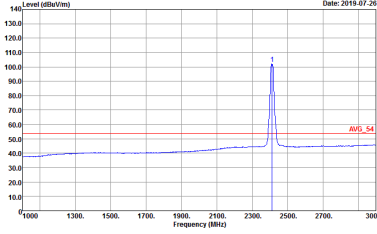
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 19 Power : 10	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 19 Power : 10
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 19 Power : 10	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 19 Power : 10

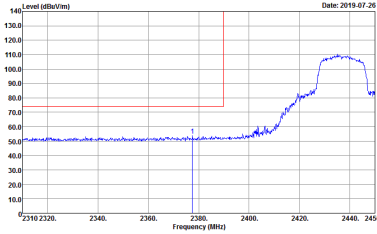
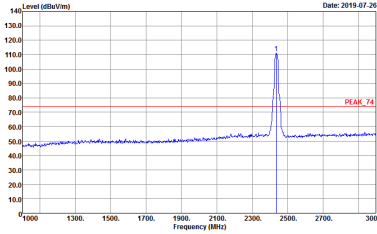
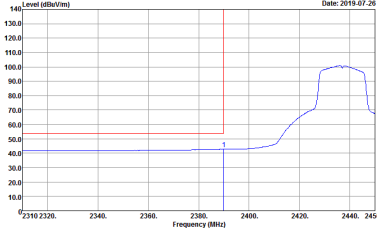
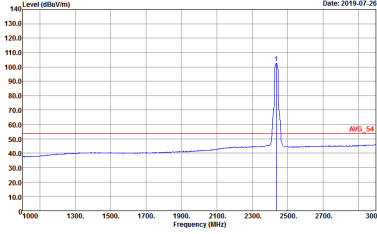


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 19 Power : 10	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 19 Power : 10
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 19 Power : 10	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 19 Power : 10

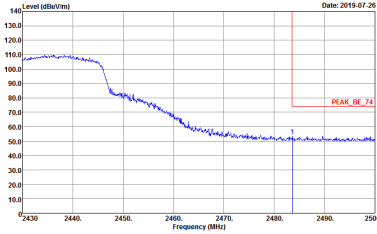
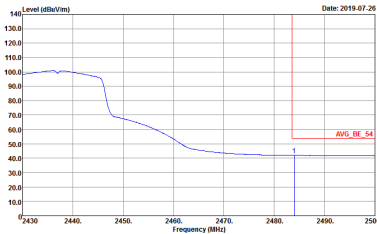
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 20 Power : 15.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 20 Power : 15.5
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 20 Power : 15.5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 20 Power : 15.5

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 20 Power : 15.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 20 Power : 15.5
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 20 Power : 15.5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 20 Power : 15.5
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 21 : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 21 : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 21 : 17	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 21 : 17

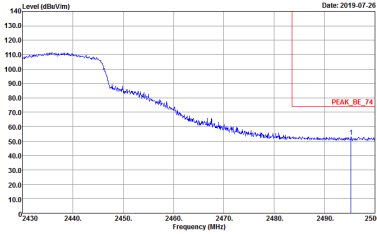
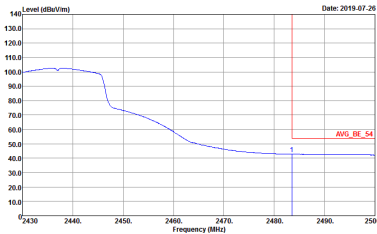


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : Z1 Power : 17	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : Z1 Power : 17	Left blank

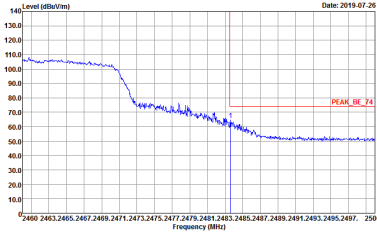
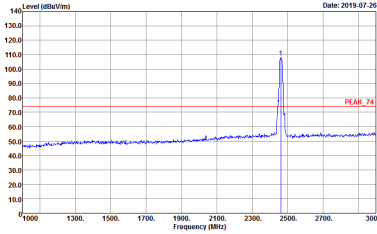
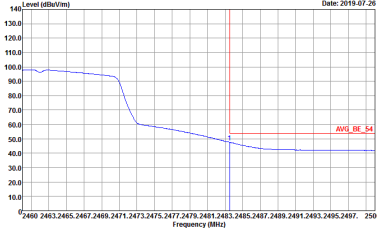
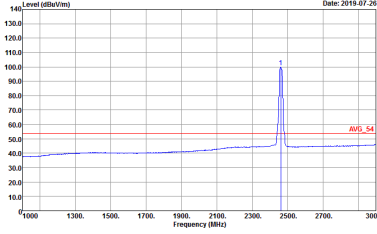


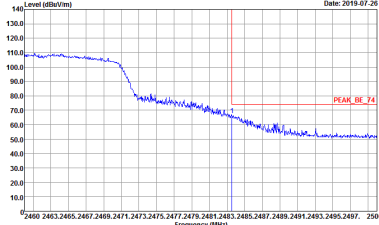
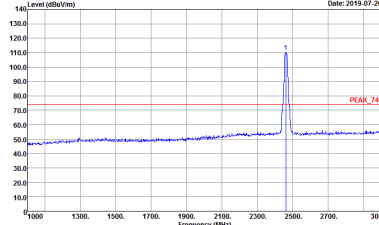
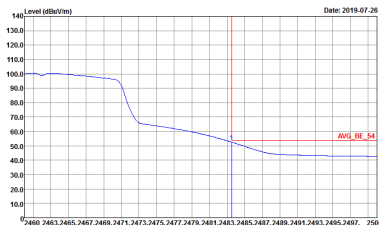
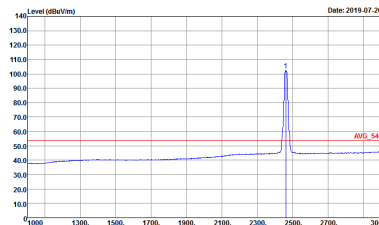
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 21 Power : 17	Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 21 Power : 17
Avg.	Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 21 Power : 17	Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 21 Power : 17



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : Z1 Power : 17	Left Blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : Z1 Power : 17	Left Blank



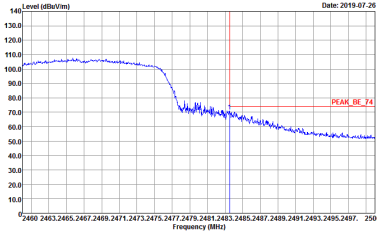
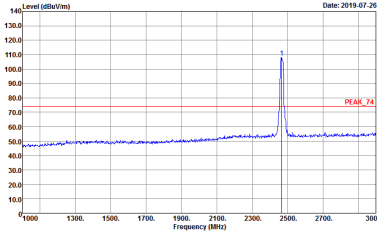
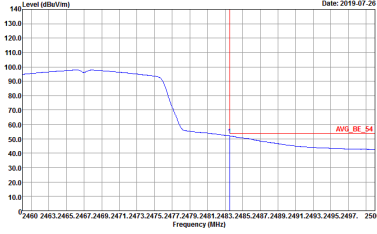
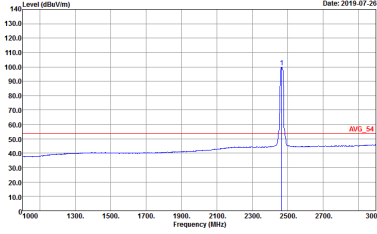
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 22 : 14.5	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 22 : 14.5
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 22 : 14.5	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 22 : 14.5

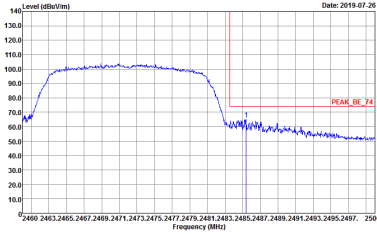
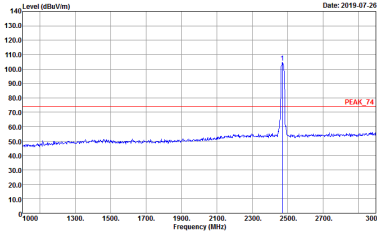
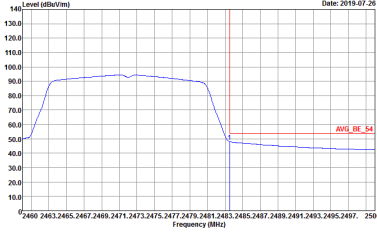
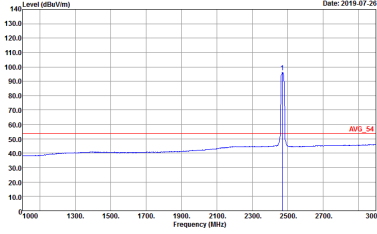
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 22 Power : 14.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 22 Power : 14.5
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 22 Power : 14.5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 22 Power : 14.5

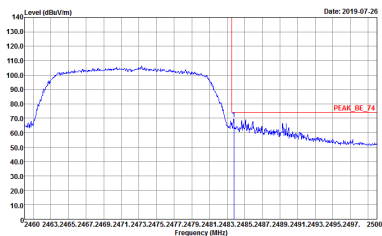
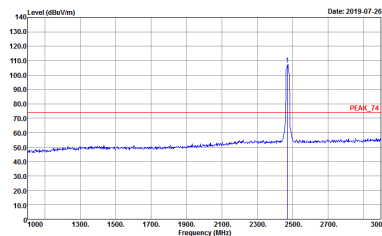
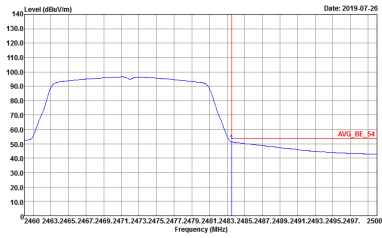
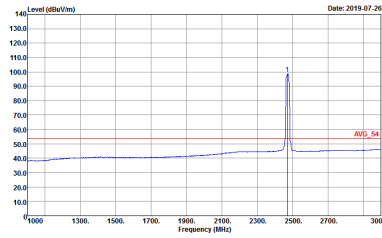


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 23 Power : 11.5	Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 23 Power : 11.5
Avg.	Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 23 Power : 11.5	Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 940344-01 Mode : 23 Power : 11.5



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 23 : 11.5	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 23 : 11.5
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 23 : 11.5	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 940344-01 Power : 23 : 11.5

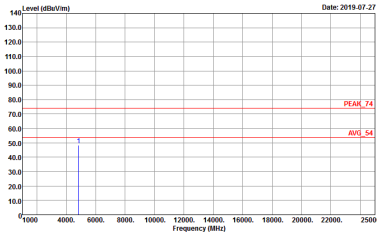
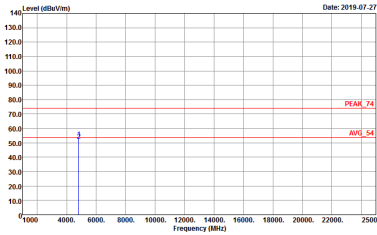
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 24 Power : 10	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 24 Power : 10
	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 24 Power : 10	 Site : 03CH13-HV Condition : AVG_54 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 24 Power : 10
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 24 Power : 10	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 24 Power : 10
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 24 Power : 10	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 24 Power : 10

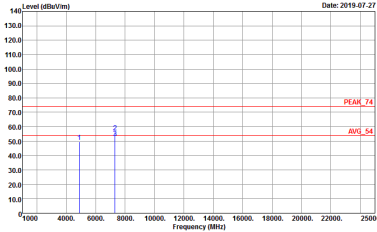
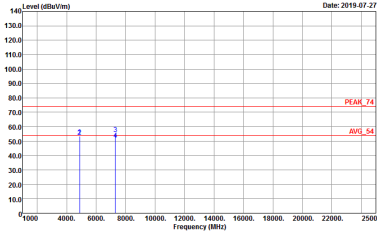


2.4GHz 2400~2483.5MHz

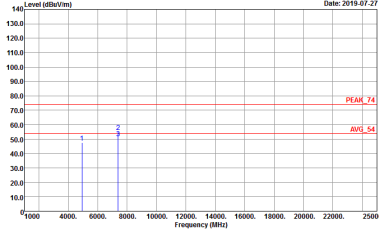
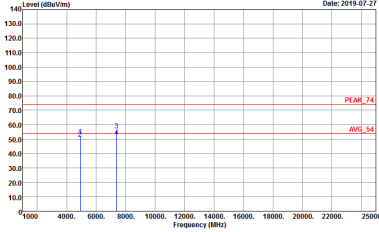
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 10 Power : 19	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 10 Power : 19

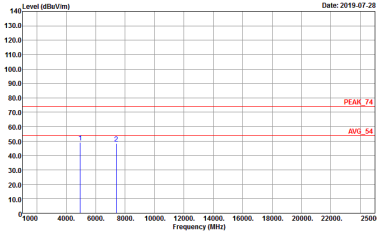
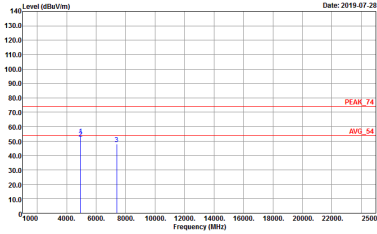


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 11 Power : 19	 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 11 Power : 19



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 12 Power : 19	 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 12 Power : 19



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH12 2467MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-1V Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 13 Power : 17.5	 Site : 03CH12-1V Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 13 Power : 17.5

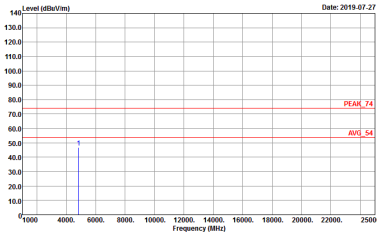
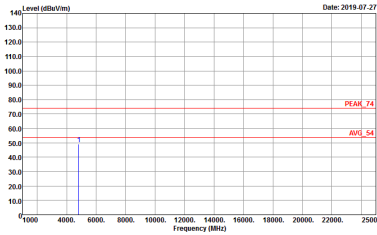


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH13 2472MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH13-1V Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 14 Power : 13.5	Site : 03CH13-1V Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 14 Power : 13.5



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 15 Power : 16	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 15 Power : 16



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-07-27 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 16 Power : 18	Level (dBuV/m) Date: 2019-07-27 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 16 Power : 18

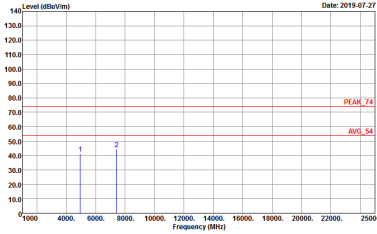
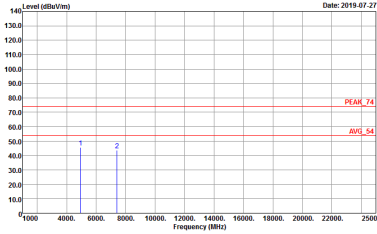


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-07-27 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 17 Power : 15.5	Level (dBuV/m) Date: 2019-07-27 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 17 Power : 15.5



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH12 2467MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH12-1V Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 18 Power : 10.5	Site : 03CH12-1V Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 18 Power : 10.5



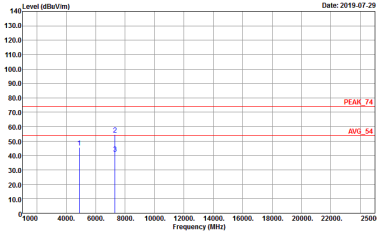
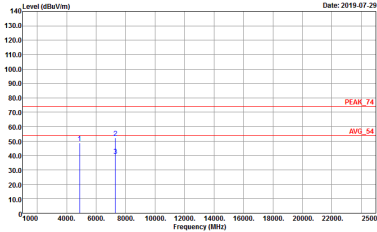
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH13 2472MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 19 Power : 10	 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 19 Power : 10



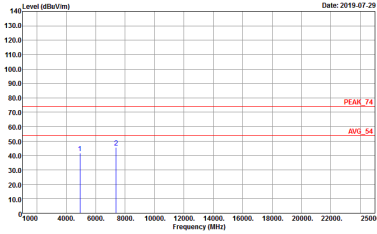
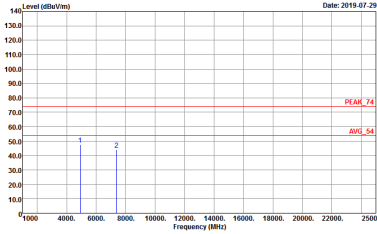
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-07-27 Frequency (MHz) Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 20 Power : 15.5	Level (dBuV/m) Date: 2019-07-27 Frequency (MHz) Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 20 Power : 15.5

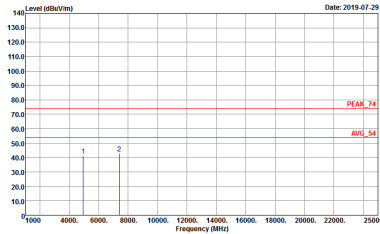
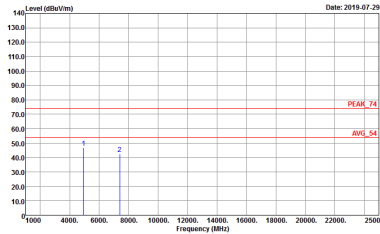


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-1V Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 21 Power : 17	 Site : 03CH13-1V Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 21 Power : 17

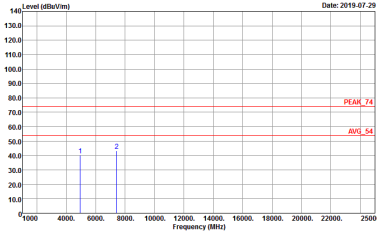
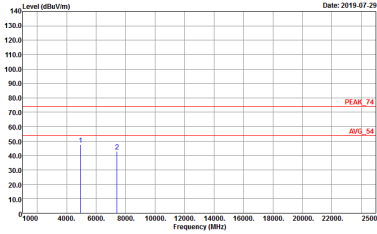


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 22 Power : 14.5	 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 22 Power : 14.5

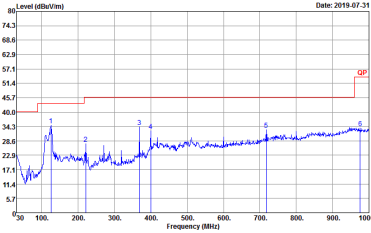
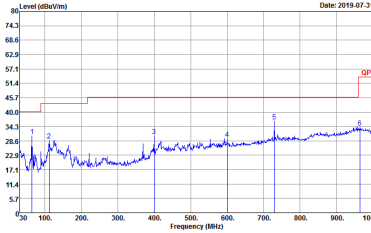


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH12 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-4V Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 23 Power : 11.5	 Site : 03CH12-4V Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 23 Power : 11.5



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 24 Power : 10	 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1212 VERTICAL Detector : Peak Project : 940344-01 Mode : 24 Power : 10

Emission below 1GHz
2.4GHz WIFI 802.11g (LF)

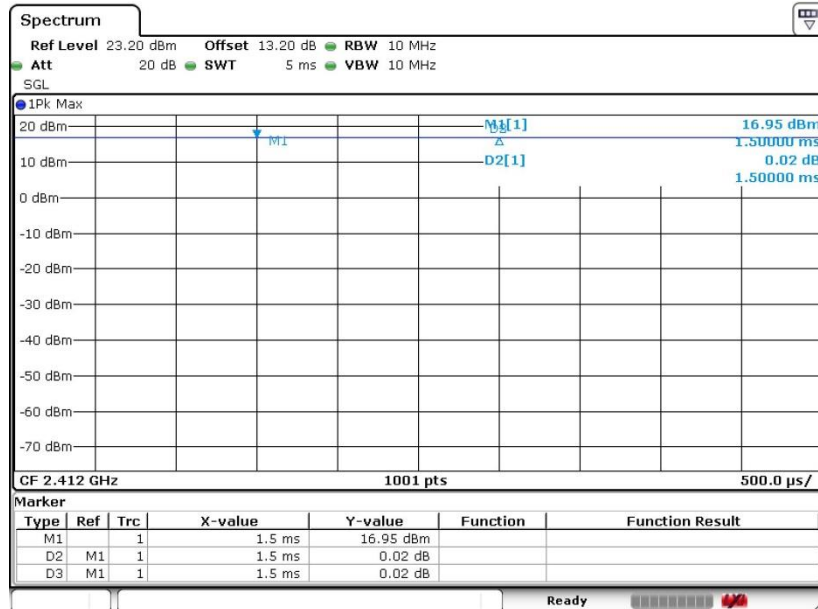
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11g LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH13-HY Condition : QP 3m BTL06_40103 HORIZONTAL Detector : Peak Project : 940344-01 Mode : 27	 Site : 03CH13-HY Condition : QP 3m BTL06_40103 VERTICAL Detector : Peak Project : 940344-01 Mode : 27

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2	802.11b for Ant 1	100.00	-	-	10Hz	0.00
1+2	802.11b for Ant 2	100.00	-	-	10Hz	0.00
1+2	802.11g for Ant 1	100.00	-	-	10Hz	0.00
1+2	802.11g for Ant 2	100.00	-	-	10Hz	0.00
1+2	2.4GHz 802.11n HT20 for Ant 1	100.00	-	-	10Hz	0.00
1+2	2.4GHz 802.11n HT20 for Ant 2	100.00	-	-	10Hz	0.00

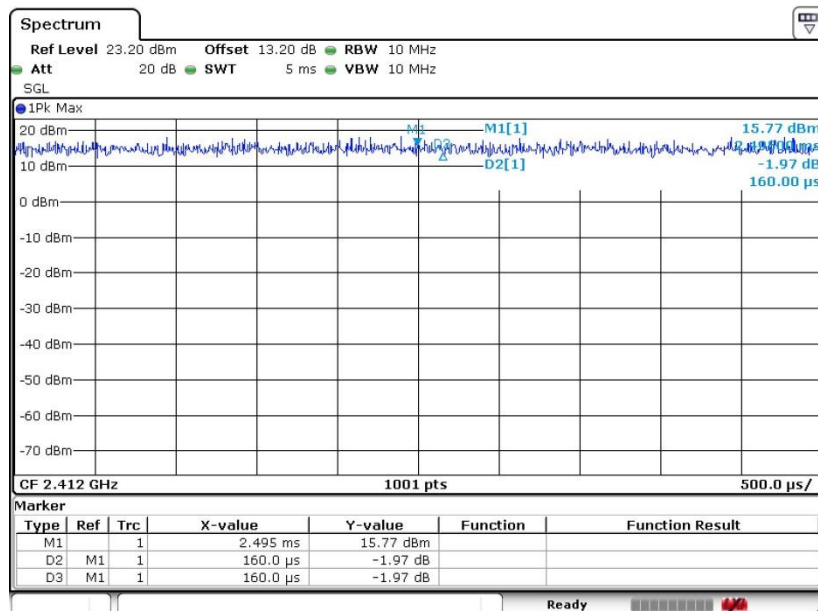
MIMO <Ant. 1>

802.11b



Date: 11.JUL.2019 17:17:43

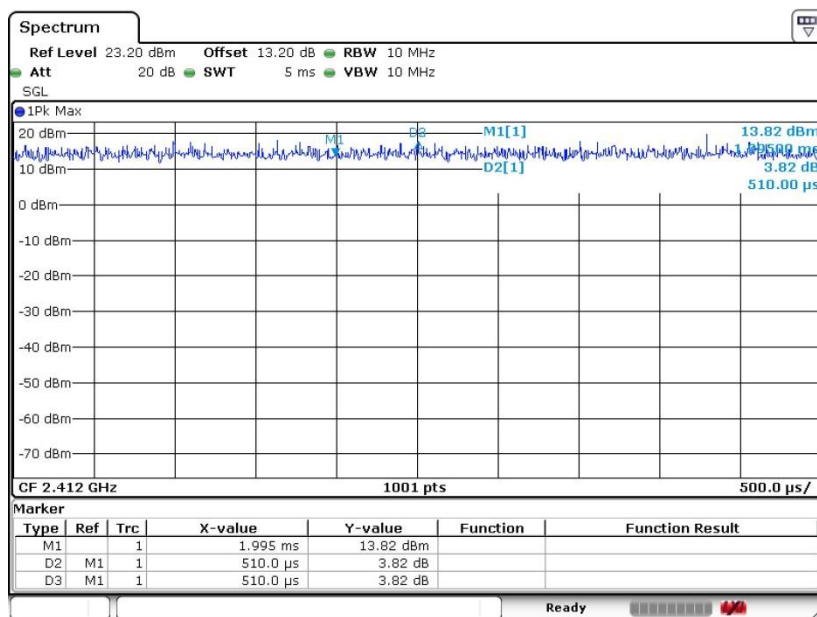
802.11g



Date: 11.JUL.2019 17:18:21



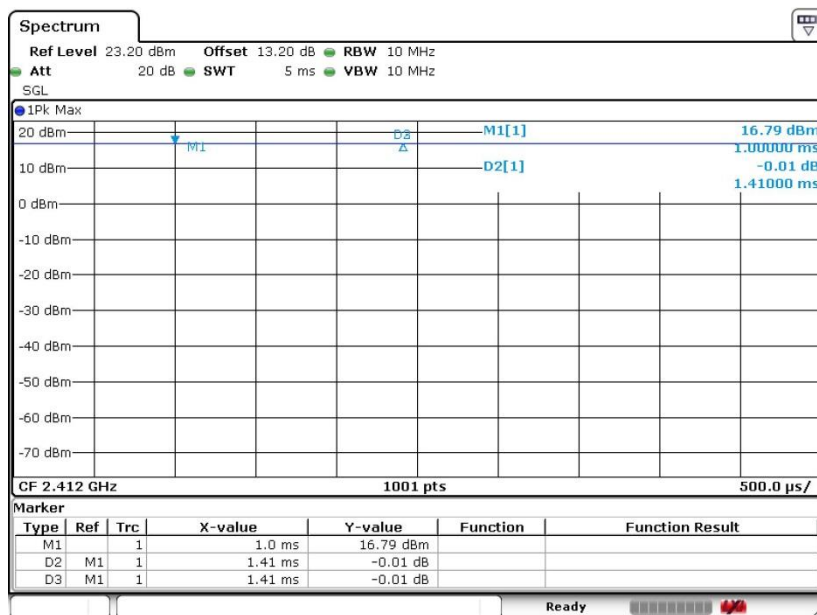
802.11n HT20



Date: 11.JUL.2019 17:19:38

MIMO <Ant. 2>

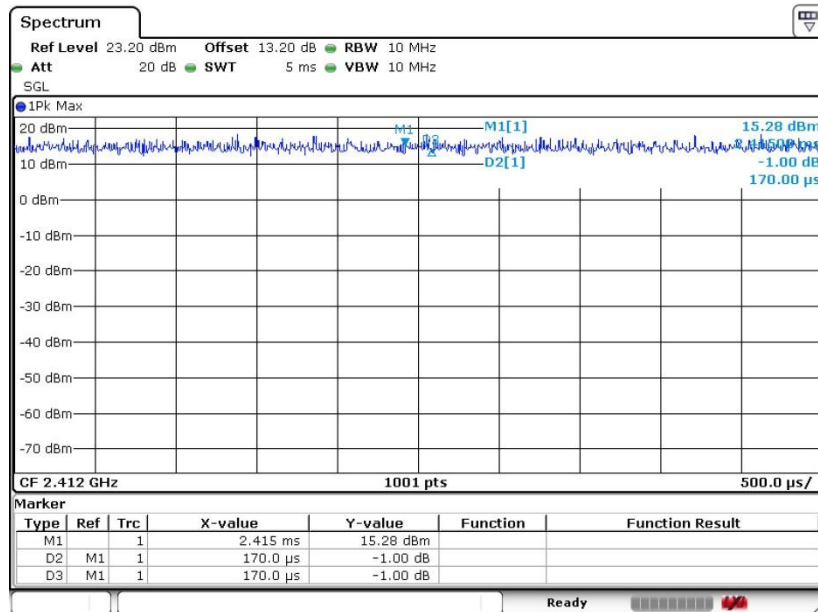
802.11b



Date: 11.JUL.2019 17:15:29

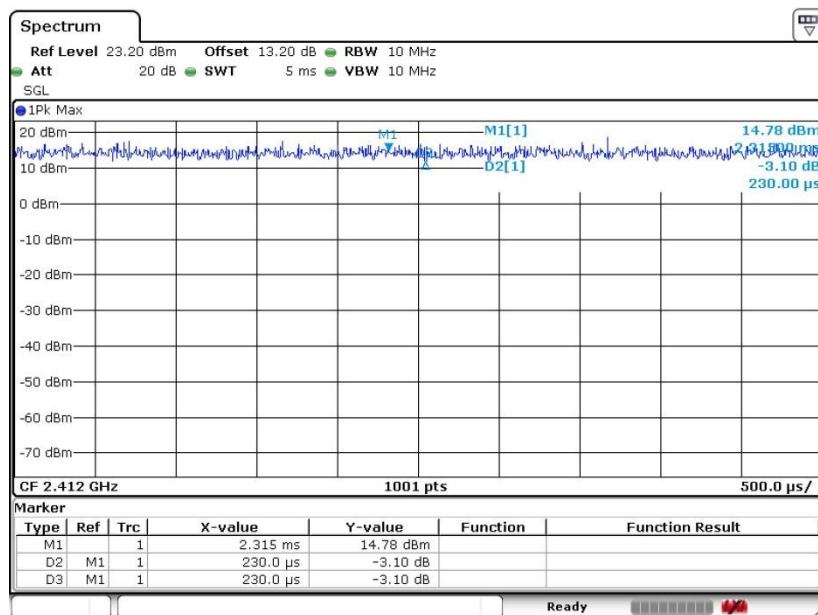


802.11g



Date: 11.JUL.2019 17:18:42

802.11n HT20



Date: 11.JUL.2019 17:19:58

—THE END—