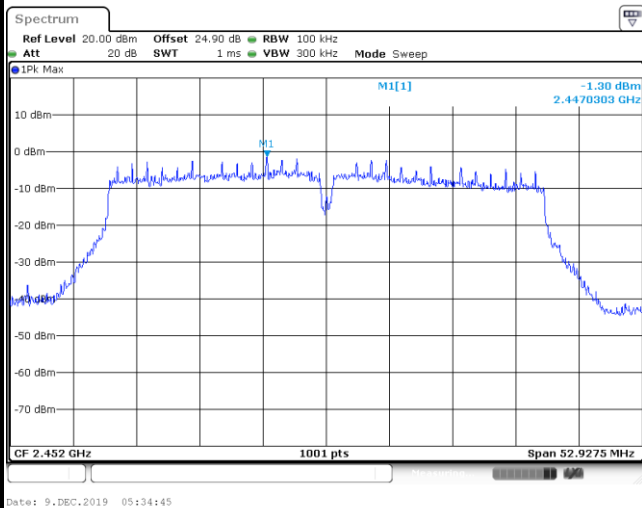




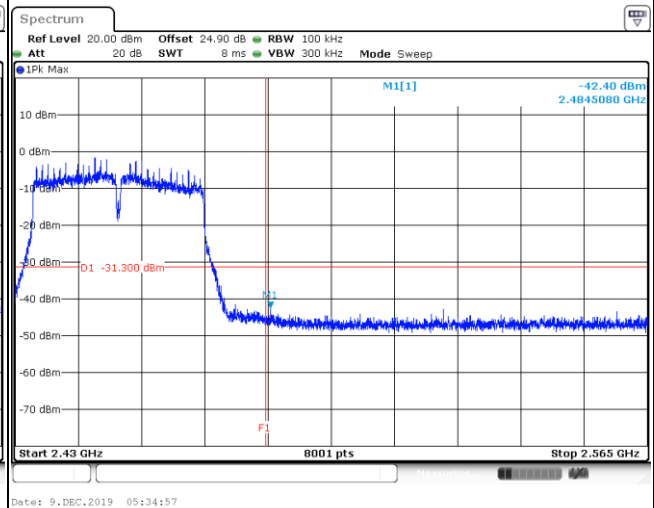
Test Mode : 802.11n HT40

Test Channel : 09

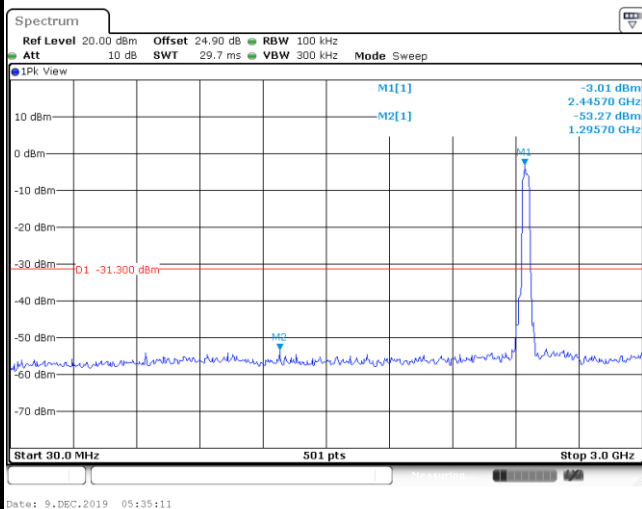
100kHz PSD reference Level



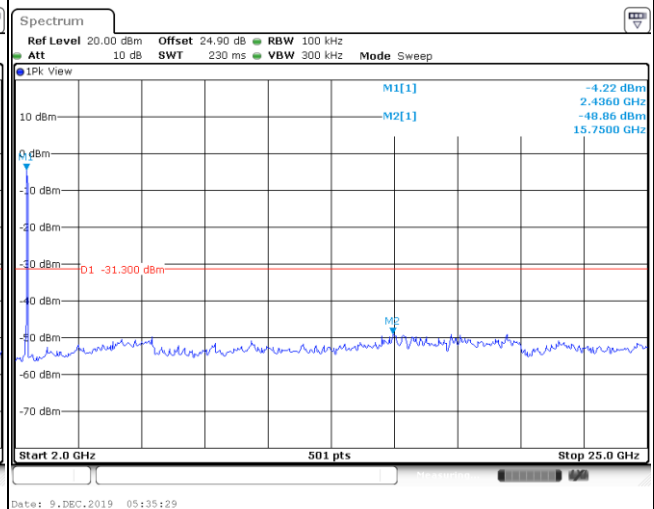
High Channel Plot



Spurious Emission 30MHz~3GHz

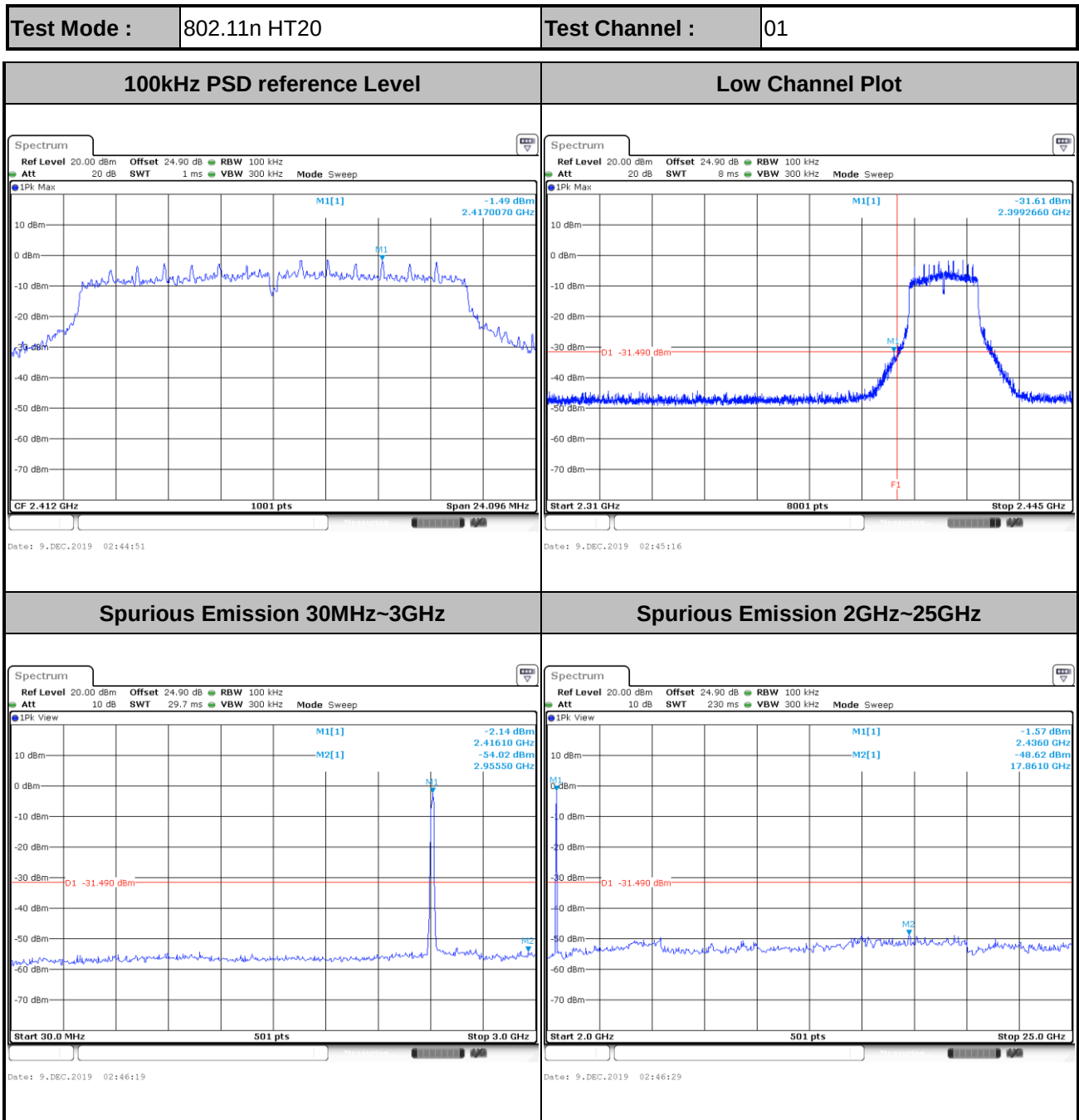


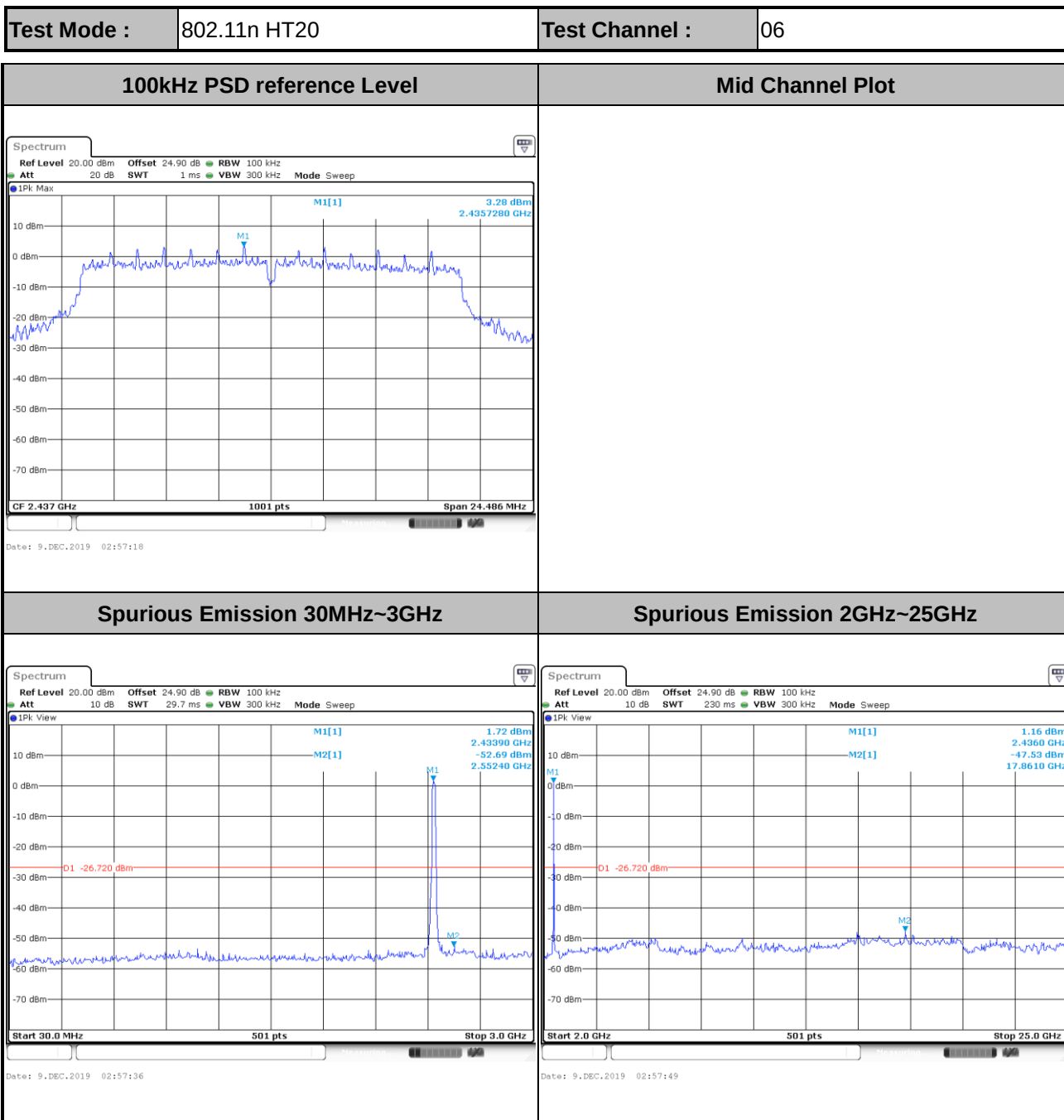
Spurious Emission 2GHz~25GHz

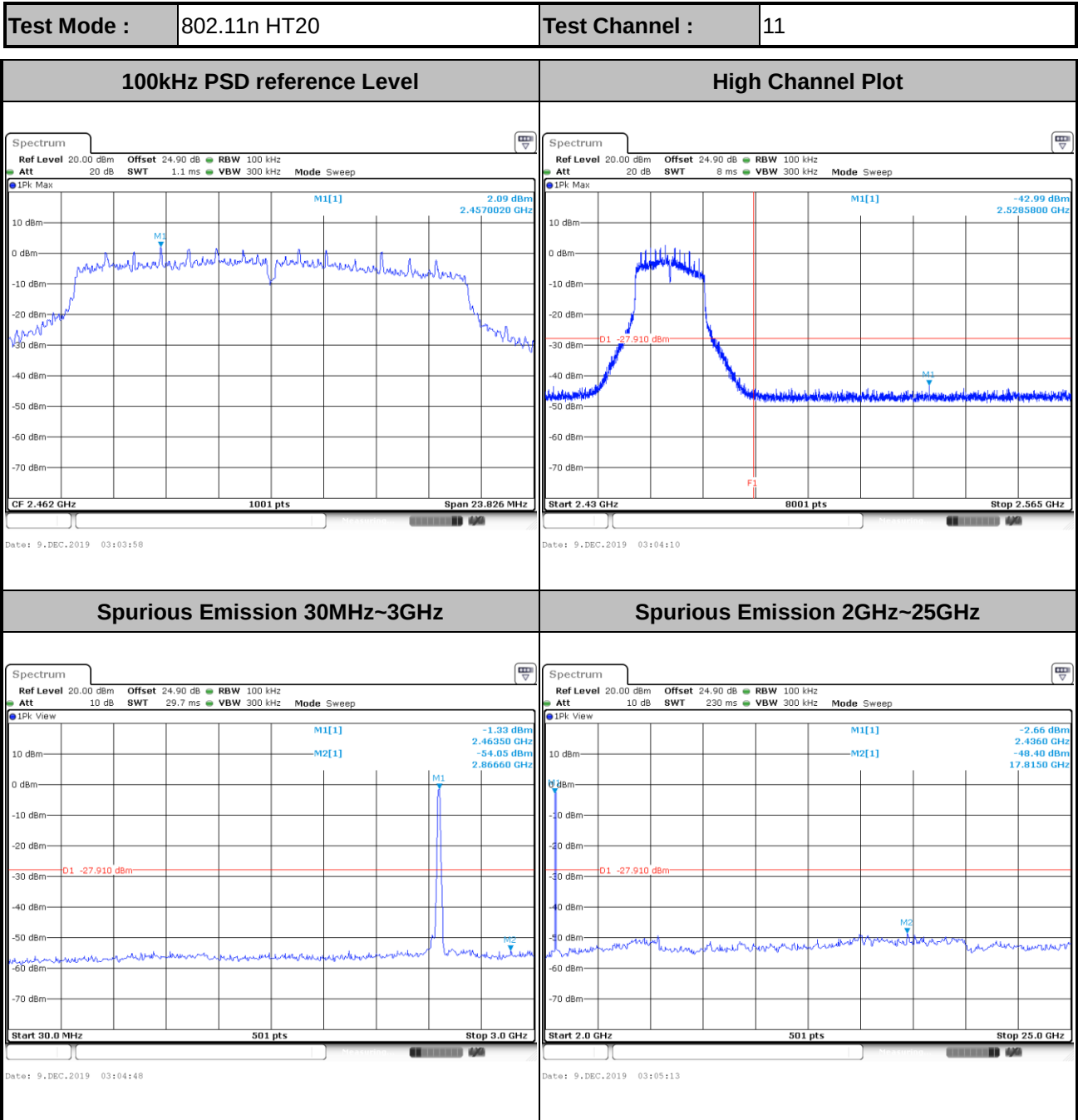


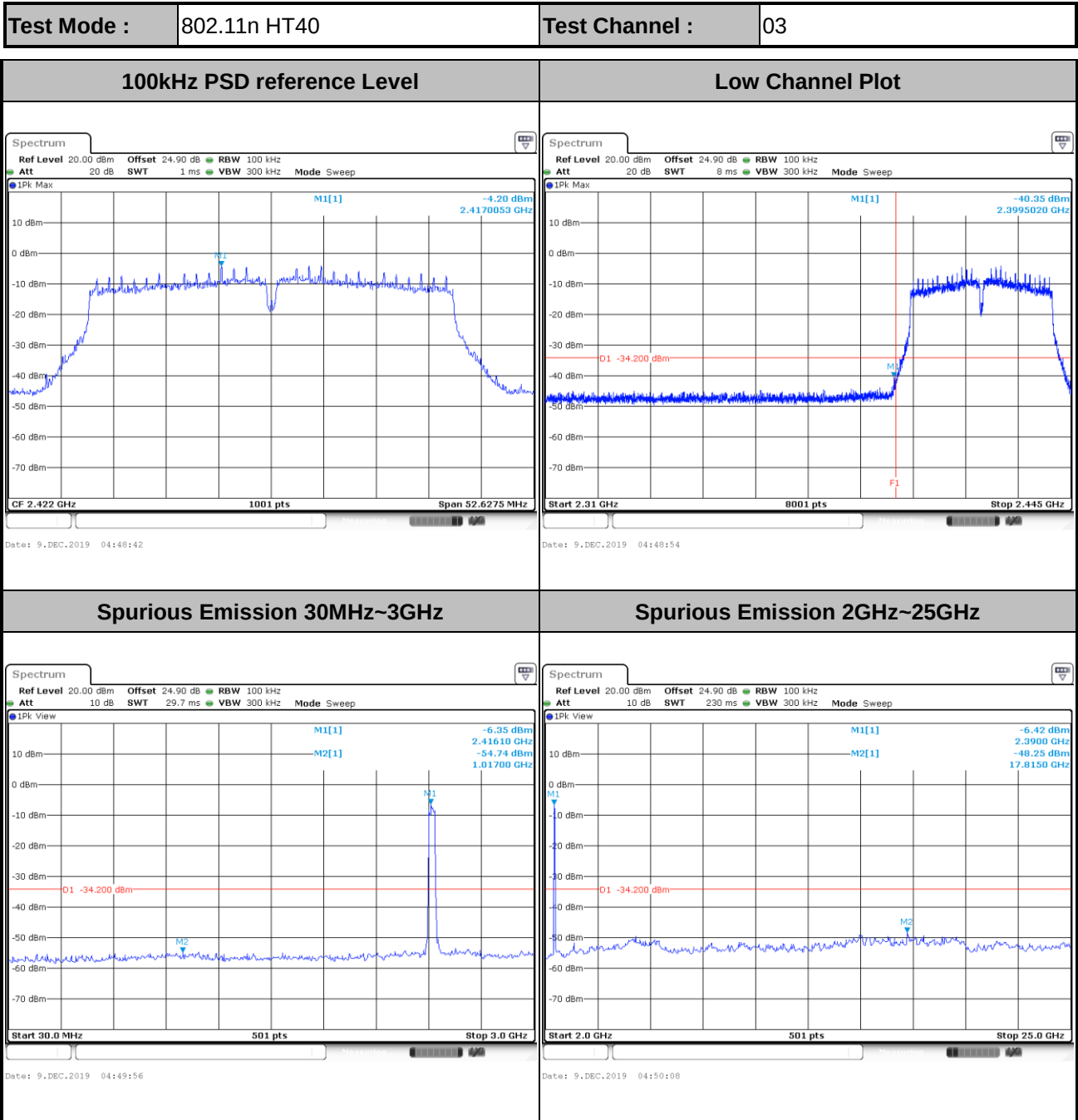


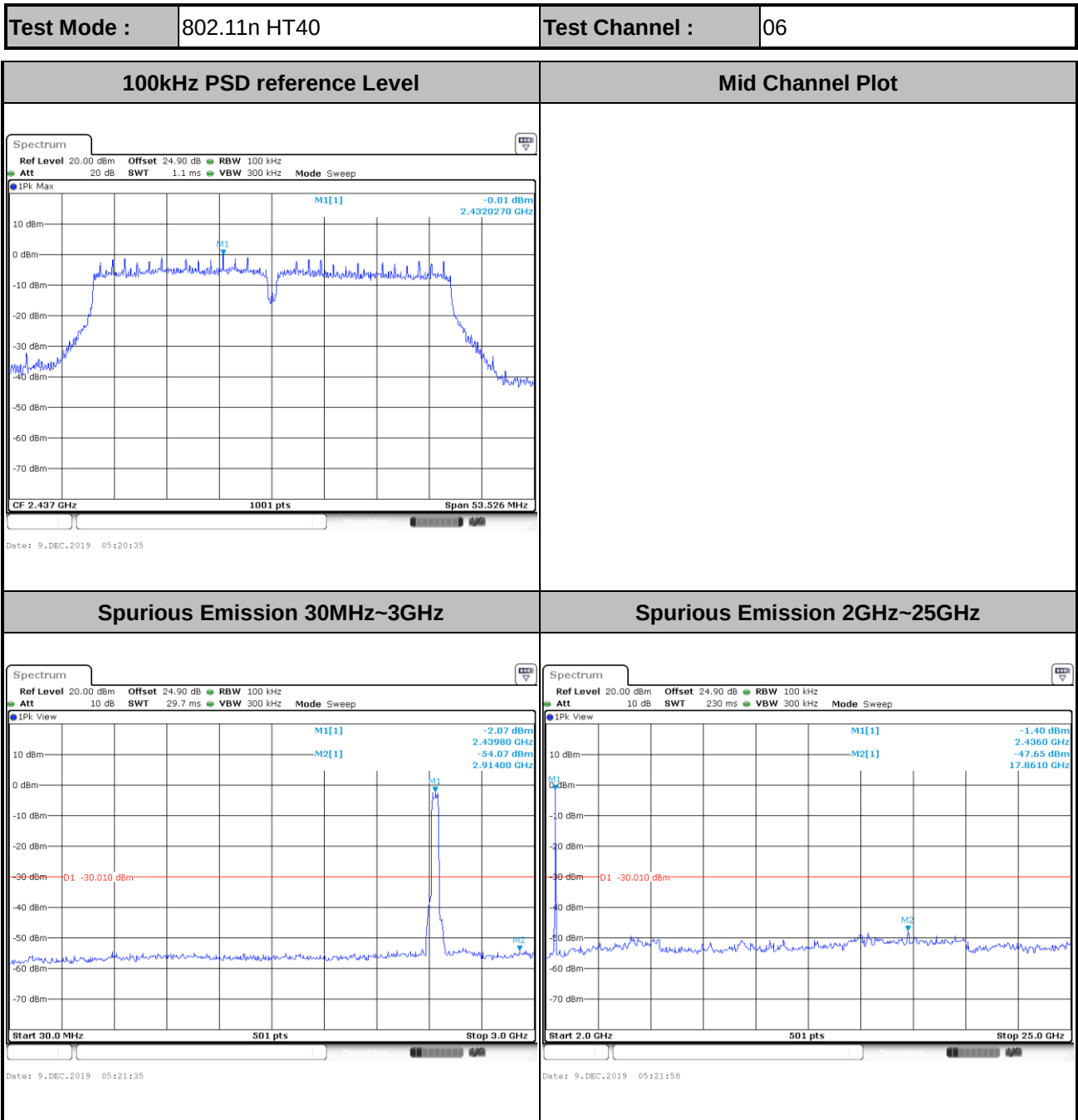
Number of TX = 2, Ant. 1 (Measured)

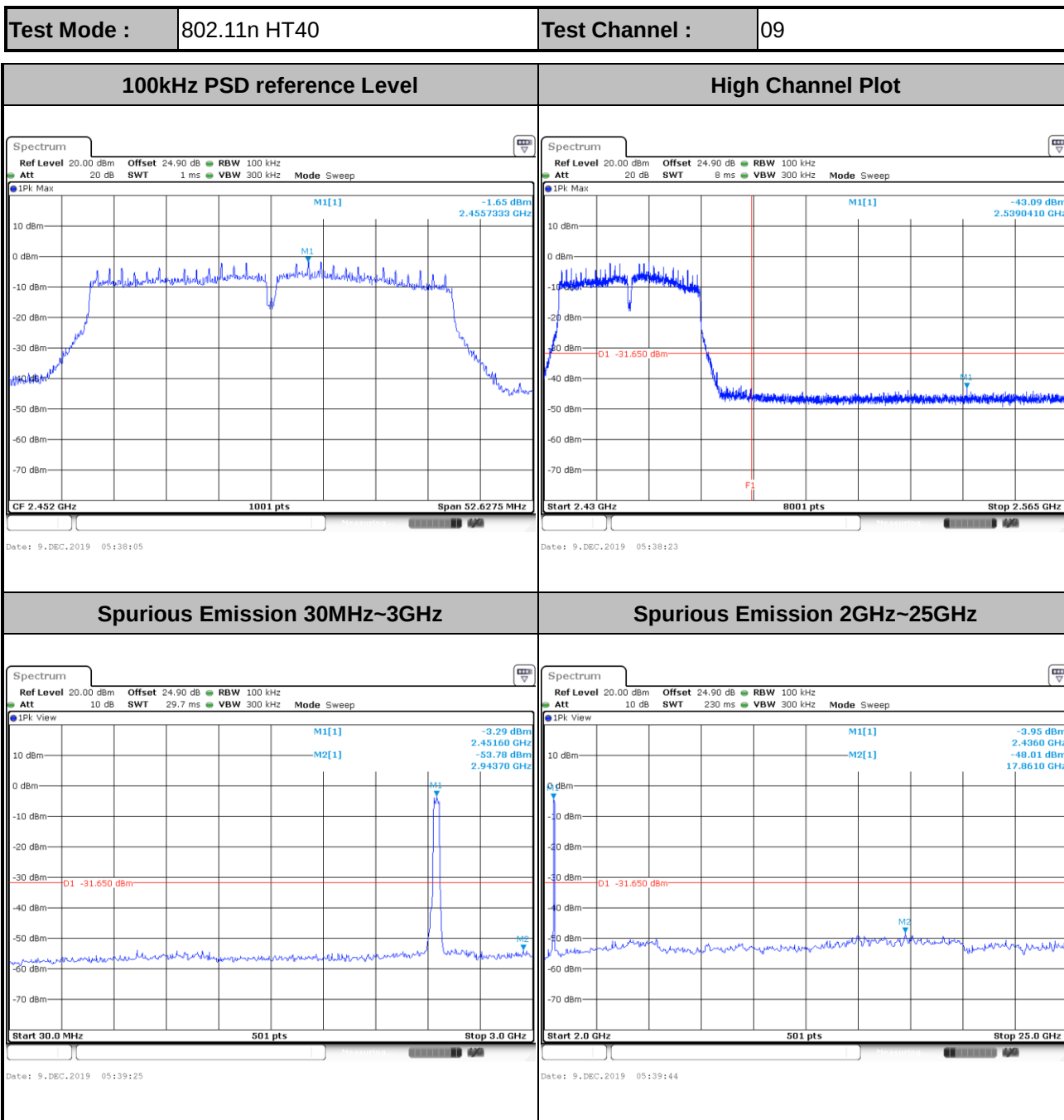












3.5 Radiated Band Edges and Spurious Emission Measurement

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

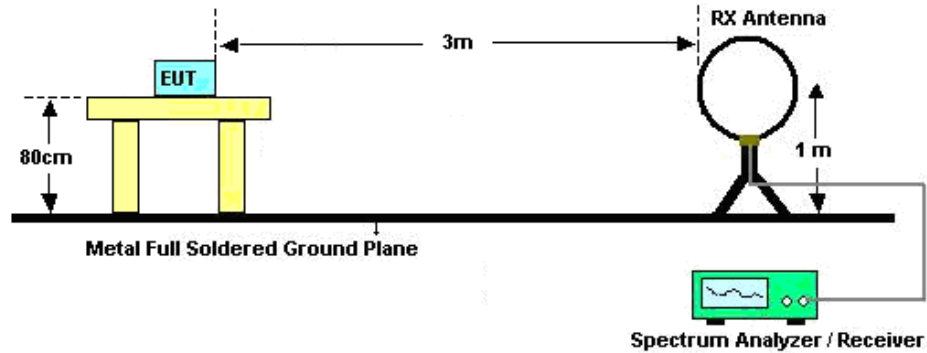
See list of measuring equipment of this test report.

3.5.3 Test Procedures

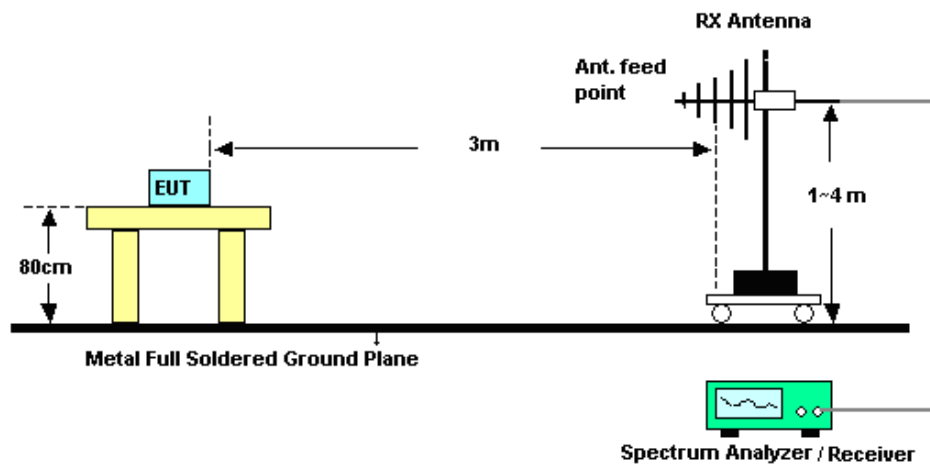
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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

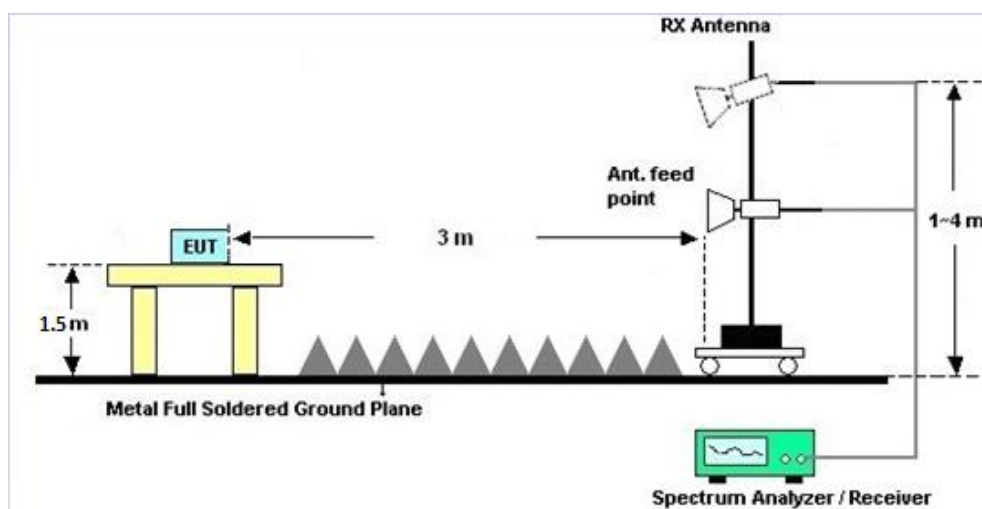
For radiated emissions below 30MHz



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.

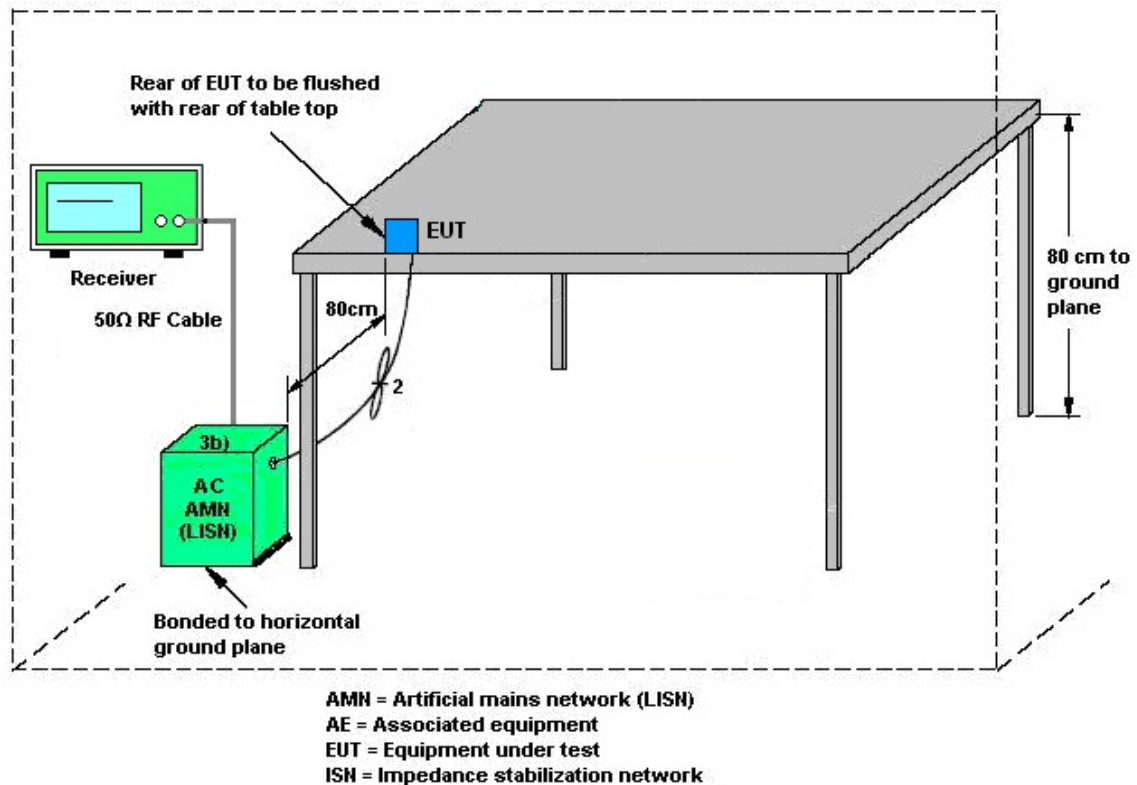
3.6.2 Measuring Instruments

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 for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 0 (dBi)	Ant. 1 (dBi)				
2.4 GHz	2.00	2.00	2.00	5.01	0.00	0.00

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
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 04, 2018	Nov. 27, 2019~ Dec. 02, 2019	Dec. 03, 2019	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 03, 2019	Dec. 03, 2019~ Dec. 11, 2019	Dec. 02, 2020	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 12, 2019	Nov. 27, 2019~ Dec. 11, 2019	Oct. 11, 2020	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 6	1GHz ~ 18GHz	Nov. 04, 2019	Nov. 27, 2019~ Dec. 11, 2019	Nov. 03, 2020	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Nov. 27, 2019~ Dec. 11, 2019	Jan. 06, 2020	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY532700 80	1GHz~26.5GHz	Nov. 13, 2019	Nov. 27, 2019~ Dec. 11, 2019	Nov. 12, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 86	10Hz ~ 44GHz	Oct. 28, 2019	Nov. 27, 2019~ Dec. 11, 2019	Oct. 27, 2020	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 27, 2019~ Dec. 11, 2019	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Nov. 27, 2019~ Dec. 11, 2019	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Nov. 27, 2019~ Dec. 11, 2019	N/A	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA00101800 -30-10P	160118000 2	1GHz~18GHz	Aug. 01, 2019	Nov. 27, 2019~ Dec. 11, 2019	Jul. 31, 2020	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 576	18GHz- 40GHz	May 14, 2019	Nov. 27, 2019~ Dec. 11, 2019	May 13, 2020	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY554201 70	20MHz~8.4GHz	Mar. 08, 2019	Nov. 27, 2019~ Dec. 11, 2019	Mar. 07, 2020	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-00105 3	N/A	N/A	Nov. 27, 2019~ Dec. 11, 2019	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz-30MHz	Mar. 13, 2019	Nov. 27, 2019~ Dec. 11, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 13, 2019	Nov. 27, 2019~ Dec. 11, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	30M-18G	Mar. 13, 2019	Nov. 27, 2019~ Dec. 11, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 13, 2019	Nov. 27, 2019~ Dec. 11, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN11	1.53G Low Pass	Sep. 15, 2019	Nov. 27, 2019~ Dec. 11, 2019	Sep. 14, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN3	3GHz High Pass	Sep. 15, 2019	Nov. 27, 2019~ Dec. 11, 2019	Sep. 14, 2020	Radiation (03CH11-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H2	41410069	N/A	Jun. 17, 2019	Nov. 25, 2019~ Dec. 31, 2019	Jun. 16, 2020	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015S NO35	10MHz~6GHz	Jan. 15, 2019	Nov. 25, 2019~ Dec. 23, 2019	Jan. 14, 2020	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	0932001	N/A	Oct. 03, 2019	Nov. 25, 2019~ Dec. 31, 2019	Oct. 02, 2020	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Oct. 03, 2019	Nov. 25, 2019~ Dec. 31, 2019	Oct. 02, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Jul. 15, 2019	Nov. 25, 2019~ Dec. 31, 2019	Jul. 14, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC120838 2	N/A	Mar. 27, 2019	Nov. 25, 2019~ Dec. 31, 2019	Mar. 26, 2020	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 05, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Dec. 05, 2019	Nov. 14, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Dec. 05, 2019	Nov. 19, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Dec. 05, 2019	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Dec. 05, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Dec. 05, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Dec. 05, 2019	Dec. 30, 2019	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.00
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.12
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Owen Yang	Temperature:	21~25	°C
Test Date:	2019/11/25~2019/12/31	Relative Humidity:	51~54	%

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
					Ant0	Ant1	Ant0	Ant1		
11b	1Mbps	1	1	2412	12.74	12.64	8.03	8.03	0.50	Pass
11b	1Mbps	1	6	2437	12.74	12.64	8.01	7.07	0.50	Pass
11b	1Mbps	1	11	2462	12.79	12.54	7.07	7.06	0.50	Pass
11g	6Mbps	1	1	2412	16.78	16.83	15.52	15.46	0.50	Pass
11g	6Mbps	1	6	2437	16.78	17.13	15.35	15.45	0.50	Pass
11g	6Mbps	1	11	2462	16.78	16.58	15.34	15.31	0.50	Pass
HT20	MCS0	2	1	2412	17.98	17.88	16.78	16.06	0.50	Pass
HT20	MCS0	2	6	2437	17.93	17.98	15.94	16.32	0.50	Pass
HT20	MCS0	2	11	2462	17.98	17.68	16.08	15.88	0.50	Pass
HT40	MCS0	2	3	2422	36.56	36.26	35.13	35.09	0.50	Pass
HT40	MCS0	2	6	2437	36.36	36.56	35.13	35.68	0.50	Pass
HT40	MCS0	2	9	2452	36.46	36.16	35.29	35.09	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
					Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	
11b	1Mbps	1	1	2412	16.20	16.10	-	30.00	30.00	2.00	2.00	18.20	18.10	36.00	36.00	Pass
11b	1Mbps	1	6	2437	16.40	16.30		30.00	30.00	2.00	2.00	18.40	18.30	36.00	36.00	Pass
11b	1Mbps	1	11	2462	16.20	16.10		30.00	30.00	2.00	2.00	18.20	18.10	36.00	36.00	Pass
11g	6Mbps	1	1	2412	13.20	13.10		30.00	30.00	2.00	2.00	15.20	15.10	36.00	36.00	Pass
11g	6Mbps	1	2	2417	17.30	17.10		30.00	30.00	2.00	2.00	19.30	19.10	36.00	36.00	Pass
11g	6Mbps	1	6	2437	17.40	17.20		30.00	30.00	2.00	2.00	19.40	19.20	36.00	36.00	Pass
11g	6Mbps	1	10	2457	17.20	17.10		30.00	30.00	2.00	2.00	19.20	19.10	36.00	36.00	Pass
11g	6Mbps	1	11	2462	13.40	13.10		30.00	30.00	2.00	2.00	15.40	15.10	36.00	36.00	Pass
HT20	MCS0	1	1	2412	12.60	12.10		30.00	30.00	2.00	2.00	14.60	14.10	36.00	36.00	Pass
HT20	MCS0	1	6	2437	14.80	14.70		30.00	30.00	2.00	2.00	16.80	16.70	36.00	36.00	Pass
HT20	MCS0	1	11	2462	13.20	12.90		30.00	30.00	2.00	2.00	15.20	14.90	36.00	36.00	Pass
HT40	MCS0	1	3	2422	9.50	9.00		30.00	30.00	2.00	2.00	11.50	11.00	36.00	36.00	Pass
HT40	MCS0	1	4	2427	11.20	10.90		30.00	30.00	2.00	2.00	13.20	12.90	36.00	36.00	Pass
HT40	MCS0	1	6	2437	14.10	13.80		30.00	30.00	2.00	2.00	16.10	15.80	36.00	36.00	Pass
HT40	MCS0	1	8	2447	12.10	11.90		30.00	30.00	2.00	2.00	14.10	13.90	36.00	36.00	Pass
HT40	MCS0	1	9	2452	12.10	12.10		30.00	30.00	2.00	2.00	14.10	14.10	36.00	36.00	Pass
HT20	MCS0	2	1	2412	12.70	12.20	15.47	30.00		2.00		17.47		36.00		Pass
HT20	MCS0	2	6	2437	14.90	14.80	17.86	30.00		2.00		19.86		36.00		Pass
HT20	MCS0	2	11	2462	13.30	13.00	16.16	30.00		2.00		18.16		36.00		Pass
HT40	MCS0	2	3	2422	9.60	9.10	12.37	30.00		2.00		14.37		36.00		Pass
HT40	MCS0	2	4	2427	11.30	11.00	14.16	30.00		2.00		16.16		36.00		Pass
HT40	MCS0	2	6	2437	14.20	13.90	17.06	30.00		2.00		19.06		36.00		Pass
HT40	MCS0	2	8	2447	12.30	12.00	15.16	30.00		2.00		17.16		36.00		Pass
HT40	MCS0	2	9	2452	12.20	12.20	15.21	30.00		2.00		17.21		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

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
					Ant0	Ant1	Worse + 3.01	Ant0	Ant1	Ant0	Ant1	
11b	1Mbps	1	1	2412	-5.21	-5.32	-	2.00	2.00	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-5.29	-6.19	-	2.00	2.00	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-6.19	-5.71	-	2.00	2.00	8.00	8.00	Pass
11g	6Mbps	1	1	2412	-14.64	-14.85	-	2.00	2.00	8.00	8.00	Pass
11g	6Mbps	1	6	2437	-10.78	-10.29	-	2.00	2.00	8.00	8.00	Pass
11g	6Mbps	1	11	2462	-14.25	-14.72	-	2.00	2.00	8.00	8.00	Pass
HT20	MCS0	2	1	2412	-18.14	-18.78	-15.13	5.01		8.00		Pass
HT20	MCS0	2	6	2437	-13.51	-13.91	-10.50	5.01		8.00		Pass
HT20	MCS0	2	11	2462	-15.02	-14.97	-11.96	5.01		8.00		Pass
HT40	MCS0	2	3	2422	-20.17	-21.36	-17.16	5.01		8.00		Pass
HT40	MCS0	2	6	2437	-15.25	-16.60	-12.24	5.01		8.00		Pass
HT40	MCS0	2	9	2452	-18.21	-17.47	-14.46	5.01		8.00		Pass

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



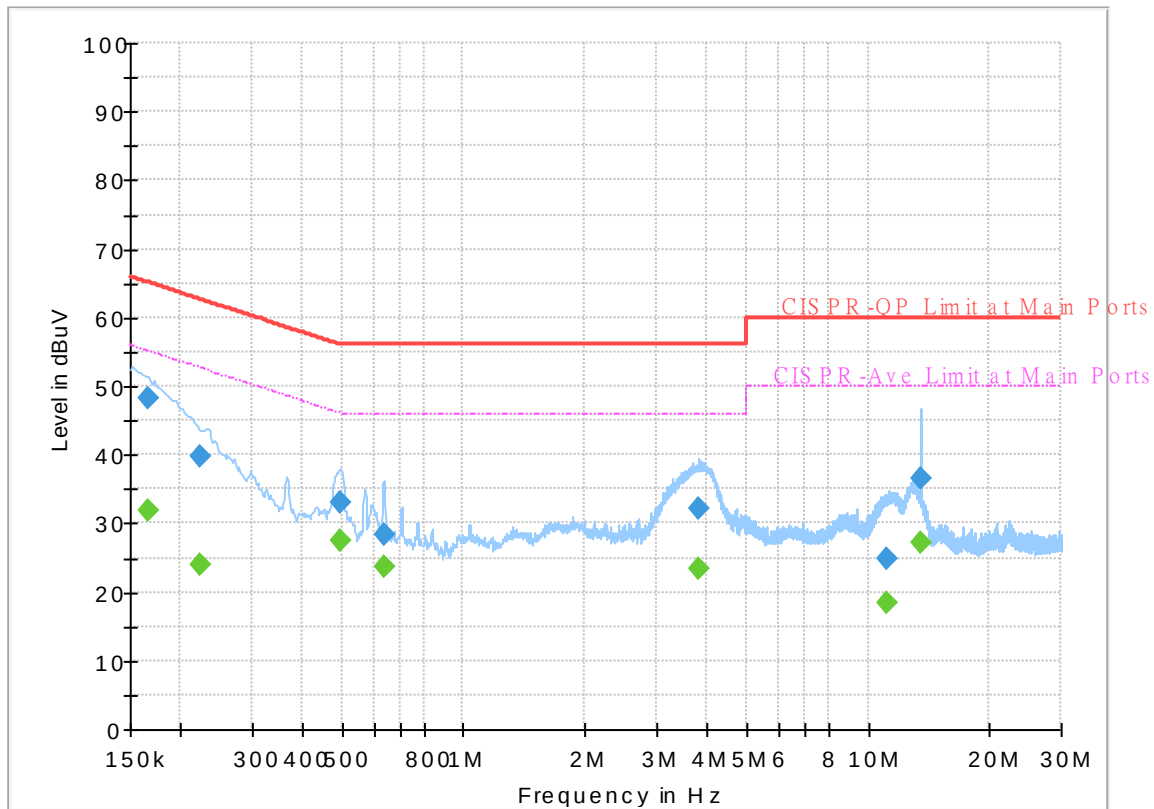
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	Temperature :	24~26℃
		Relative Humidity :	55~58%

EUT Information

Report NO : 992410-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



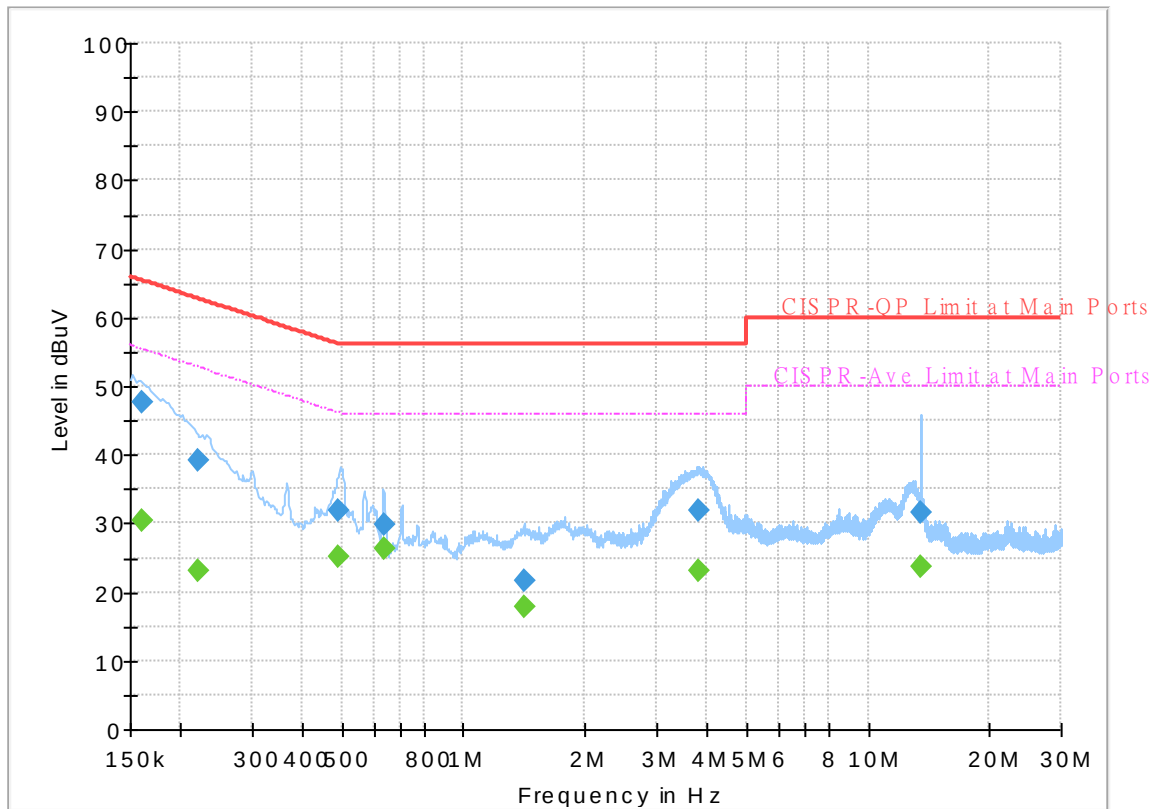
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.166470	---	31.88	55.14	23.26	L1	OFF	19.5
0.166470	48.24	---	65.14	16.90	L1	OFF	19.5
0.224250	---	23.87	52.66	28.79	L1	OFF	19.5
0.224250	39.73	---	62.66	22.93	L1	OFF	19.5
0.498750	---	27.53	46.02	18.49	L1	OFF	19.5
0.498750	33.12	---	56.02	22.90	L1	OFF	19.5
0.638520	---	23.72	46.00	22.28	L1	OFF	19.5
0.638520	28.37	---	56.00	27.63	L1	OFF	19.5
3.819750	---	23.26	46.00	22.74	L1	OFF	19.6
3.819750	32.26	---	56.00	23.74	L1	OFF	19.6
11.081670	---	18.51	50.00	31.49	L1	OFF	19.7
11.081670	24.81	---	60.00	35.19	L1	OFF	19.7
13.560000	---	27.26	50.00	22.74	L1	OFF	19.7
13.560000	36.57	---	60.00	23.43	L1	OFF	19.7

EUT Information

Report NO : 992410-01
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)
0.161250	---	30.54	55.40	24.86	N	OFF	19.5
0.161250	47.52	---	65.40	17.88	N	OFF	19.5
0.222000	---	23.03	52.74	29.71	N	OFF	19.5
0.222000	39.20	---	62.74	23.54	N	OFF	19.5
0.489750	---	25.28	46.17	20.89	N	OFF	19.5
0.489750	31.85	---	56.17	24.32	N	OFF	19.5
0.636000	---	26.39	46.00	19.61	N	OFF	19.5
0.636000	29.79	---	56.00	26.21	N	OFF	19.5
1.412250	---	17.86	46.00	28.14	N	OFF	19.5
1.412250	21.58	---	56.00	34.42	N	OFF	19.5
3.835500	---	23.16	46.00	22.84	N	OFF	19.6
3.835500	31.77	---	56.00	24.23	N	OFF	19.6
13.560000	---	23.65	50.00	26.35	N	OFF	19.8
13.560000	31.56	---	60.00	28.44	N	OFF	19.8



Appendix C. Radiated Spurious Emission

Test Engineer :	Cookie Ku, Fu Chen, Troye Hsieh	Temperature :	18.1 ~ 26.1°C
		Relative Humidity :	37.2 ~ 68.9%

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	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2385.39	55.14	-18.86	74	44.22	27.53	16.63	33.24	109	94	P	H
		2389.8	43.04	-10.96	54	32.11	27.52	16.64	33.23	109	94	A	H
	*	2412	110.08	-	-	99.17	27.48	16.66	33.23	109	94	P	H
	*	2412	106.94	-	-	96.03	27.48	16.66	33.23	109	94	A	H
													H
		2310.42	53.47	-20.53	74	42.49	27.68	16.55	33.25	100	6	P	V
		2389.38	42	-12	54	31.07	27.52	16.64	33.23	100	6	A	V
	*	2412	101.72	-	-	90.81	27.48	16.66	33.23	100	6	P	V
	*	2412	98.56	-	-	87.65	27.48	16.66	33.23	100	6	A	V
													V
802.11b CH 06 2437MHz		2315.12	52.78	-21.22	74	41.81	27.67	16.55	33.25	100	94	P	H
		2390	42.41	-11.59	54	31.48	27.52	16.64	33.23	100	94	A	H
	*	2437	108.9	-	-	98	27.43	16.69	33.22	100	94	P	H
	*	2437	105.92	-	-	95.02	27.43	16.69	33.22	100	94	A	H
		2496.96	54.22	-19.78	74	43.47	27.21	16.75	33.21	100	94	P	H
		2484.08	42.33	-11.67	54	31.54	27.26	16.74	33.21	100	94	A	H
		2328.56	52.88	-21.12	74	41.92	27.64	16.57	33.25	105	20	P	V
		2384.56	41.92	-12.08	54	31	27.53	16.63	33.24	105	20	A	V
	*	2437	100.55	-	-	89.65	27.43	16.69	33.22	105	20	P	V
	*	2437	97.51	-	-	86.61	27.43	16.69	33.22	105	20	A	V
		2487.36	52.63	-21.37	74	41.85	27.25	16.74	33.21	105	20	P	V
		2484.72	41.84	-12.16	54	31.05	27.26	16.74	33.21	105	20	A	V



802.11b CH 11 2462MHz	*	2462	108.89	-	-	98.04	27.35	16.72	33.22	107	95	P	H
	*	2462	105.65	-	-	94.8	27.35	16.72	33.22	107	95	A	H
		2484.16	58.17	-15.83	74	47.38	27.26	16.74	33.21	107	95	P	H
		2484.72	42.79	-11.21	54	32	27.26	16.74	33.21	107	95	A	H
													H
													H
	*	2462	100.91	-	-	90.06	27.35	16.72	33.22	100	2	P	V
	*	2462	97.84	-	-	86.99	27.35	16.72	33.22	100	2	A	V
		2493.32	53.97	-20.03	74	43.2	27.23	16.75	33.21	100	2	P	V
		2484.68	41.97	-12.03	54	31.18	27.26	16.74	33.21	100	2	A	V
													V
													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. 0	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 01 2412MHz		4824	39.69	-34.31	74	58.5	31	11.09	60.9	100	0	P	H
													H
													H
													H
		4824	40.46	-33.54	74	59.27	31	11.09	60.9	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	40.63	-33.37	74	59.35	31	11.13	60.85	100	0	P	H
		7311	43.26	-30.74	74	54.01	36.5	13.67	60.92	100	0	P	H
													H
													H
		4874	41.11	-32.89	74	59.83	31	11.13	60.85	100	0	P	V
		7311	43.33	-30.67	74	54.08	36.5	13.67	60.92	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	41.36	-32.64	74	59.95	31.05	11.16	60.8	100	0	P	H
		7386	44.45	-29.55	74	55.43	36.36	13.57	60.91	100	0	P	H
													H
													H
		4924	41.54	-32.46	74	60.13	31.05	11.16	60.8	100	0	P	V
		7386	44.9	-29.1	74	55.88	36.36	13.57	60.91	100	0	P	V
													V
													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. 0	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		2388.015	59.97	-14.03	74	49.04	27.52	16.64	33.23	106	95	P	H
		2389.905	47.74	-6.26	54	36.81	27.52	16.64	33.23	106	95	A	H
	*	2412	107.82	-	-	96.91	27.48	16.66	33.23	106	95	P	H
	*	2412	100.11	-	-	89.2	27.48	16.66	33.23	106	95	A	H
													H
													H
		2322.915	53.66	-20.34	74	42.7	27.65	16.56	33.25	368	193	P	V
		2389.905	43.11	-10.89	54	32.18	27.52	16.64	33.23	368	193	A	V
	*	2412	100.12	-	-	89.21	27.48	16.66	33.23	368	193	P	V
	*	2412	92.52	-	-	81.61	27.48	16.66	33.23	368	193	A	V
													V
													V
802.11g CH 02 2417MHz		2389.44	61.57	-12.43	74	50.64	27.52	16.64	33.23	114	166	P	H
		2389.92	50.35	-3.65	54	39.42	27.52	16.64	33.23	114	166	A	H
	*	2417	111.46	-	-	100.55	27.47	16.67	33.23	114	166	P	H
	*	2417	103.63	-	-	92.72	27.47	16.67	33.23	114	166	A	H
												P	H
												A	H
		2390	56.22	-17.78	74	45.29	27.52	16.64	33.23	400	302	P	V
		2389.68	45.27	-8.73	54	34.34	27.52	16.64	33.23	400	302	A	V
	*	2417	105.01	-	-	94.1	27.47	16.67	33.23	400	302	P	V
	*	2417	97.27	-	-	86.36	27.47	16.67	33.23	400	302	A	V
												P	V
												A	V



WIFI Ant. 0	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 06 2437MHz		2389.2	59.43	-14.57	74	48.5	27.52	16.64	33.23	100	93	P	H
		2390	44.46	-9.54	54	33.53	27.52	16.64	33.23	100	93	A	H
	*	2437	112.59	-	-	101.69	27.43	16.69	33.22	100	93	P	H
	*	2437	105.01	-	-	94.11	27.43	16.69	33.22	100	93	A	H
		2484	60.98	-13.02	74	50.19	27.26	16.74	33.21	100	93	P	H
		2483.92	44.93	-9.07	54	34.14	27.26	16.74	33.21	100	93	A	H
		2384.88	52.62	-21.38	74	41.7	27.53	16.63	33.24	400	148	P	V
		2386	42.83	-11.17	54	31.91	27.53	16.63	33.24	400	148	A	V
	*	2437	101.48	-	-	90.58	27.43	16.69	33.22	400	148	P	V
	*	2437	93.74	-	-	82.84	27.43	16.69	33.22	400	148	A	V
		2484.32	53.48	-20.52	74	42.69	27.26	16.74	33.21	400	148	P	V
		2485.84	42.9	-11.1	54	32.11	27.26	16.74	33.21	400	148	A	V
802.11g CH 10 2457MHz	*	2457	112.15	-	-	101.29	27.37	16.71	33.22	128	98	P	H
	*	2457	104.4	-	-	93.54	27.37	16.71	33.22	128	98	A	H
		2484.55	63.51	-10.49	74	52.72	27.26	16.74	33.21	128	98	P	H
		2483.9	47.35	-6.65	54	36.56	27.26	16.74	33.21	128	98	A	H
												P	H
												A	H
	*	2457	104.01	-	-	93.15	27.37	16.71	33.22	100	210	P	V
	*	2457	96.09	-	-	85.23	27.37	16.71	33.22	100	210	A	V
		2483.9	55.8	-18.2	74	45.01	27.26	16.74	33.21	100	210	P	V
		2483.65	43.71	-10.29	54	32.91	27.27	16.74	33.21	100	210	A	V
												P	V
												A	V



802.11g CH 11 2462MHz	*	2462	107.76	-	-	96.91	27.35	16.72	33.22	100	113	P	H
	*	2462	99.39	-	-	88.54	27.35	16.72	33.22	100	113	A	H
		2484.35	62.96	-11.04	74	52.17	27.26	16.74	33.21	100	113	P	H
		2483.6	46.23	-7.77	54	35.43	27.27	16.74	33.21	100	113	A	H
													H
													H
	*	2462	99.42	-	-	88.57	27.35	16.72	33.22	353	142	P	V
	*	2462	91.2	-	-	80.35	27.35	16.72	33.22	353	142	A	V
		2484.85	55.79	-18.21	74	45	27.26	16.74	33.21	353	142	P	V
		2484.55	43.11	-10.89	54	32.32	27.26	16.74	33.21	353	142	A	V
													V
													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. 0	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	40.21	-33.79	74	59.02	31	11.09	60.9	100	0	P	H
													H
													H
													H
		4824	39.85	-34.15	74	58.66	31	11.09	60.9	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	41.43	-32.57	74	60.15	31	11.13	60.85	100	0	P	H
		7311	44.1	-29.9	74	54.85	36.5	13.67	60.92	100	0	P	H
													H
													H
		4874	40.73	-33.27	74	59.45	31	11.13	60.85	100	0	P	V
		7311	43.82	-30.18	74	54.57	36.5	13.67	60.92	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	40.97	-33.03	74	59.56	31.05	11.16	60.8	100	0	P	H
		7386	43.64	-30.36	74	54.62	36.36	13.57	60.91	100	0	P	H
													H
													H
		4924	40.45	-33.55	74	59.04	31.05	11.16	60.8	100	0	P	V
		7386	43	-31	74	53.98	36.36	13.57	60.91	100	0	P	V
													V
													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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2389.905	61.37	-12.63	74	50.44	27.52	16.64	33.23	237	37	P	H
		2390	50.32	-3.68	54	39.39	27.52	16.64	33.23	237	37	A	H
	*	2412	106.79	-	-	95.88	27.48	16.66	33.23	237	37	P	H
	*	2412	98.81	-	-	87.9	27.48	16.66	33.23	237	37	A	H
													H
													H
		2389.065	61.69	-12.31	74	50.76	27.52	16.64	33.23	263	82	P	V
		2390	50.79	-3.21	54	39.86	27.52	16.64	33.23	263	82	A	V
	*	2412	109.94	-	-	99.03	27.48	16.66	33.23	263	82	P	V
	*	2412	102.33	-	-	91.42	27.48	16.66	33.23	263	82	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2390	59.87	-14.13	74	48.94	27.52	16.64	33.23	210	33	P	H
		2389.68	44.37	-9.63	54	33.44	27.52	16.64	33.23	210	33	A	H
	*	2437	111.69	-	-	100.79	27.43	16.69	33.22	210	33	P	H
	*	2437	103.28	-	-	92.38	27.43	16.69	33.22	210	33	A	H
		2484.64	58.14	-15.86	74	47.35	27.26	16.74	33.21	210	33	P	H
		2483.92	43.82	-10.18	54	33.03	27.26	16.74	33.21	210	33	A	H
		2389.52	61.08	-12.92	74	50.15	27.52	16.64	33.23	241	82	P	V
		2389.52	44.65	-9.35	54	33.72	27.52	16.64	33.23	241	82	A	V
	*	2437	113.25	-	-	102.35	27.43	16.69	33.22	241	82	P	V
	*	2437	105.03	-	-	94.13	27.43	16.69	33.22	241	82	A	V
		2483.76	61.06	-12.94	74	50.27	27.26	16.74	33.21	241	82	P	V
		2483.68	44.44	-9.56	54	33.64	27.27	16.74	33.21	241	82	A	V



802.11n HT20 CH 11 2462MHz	*	2462	109.18	-	-	98.33	27.35	16.72	33.22	235	38	P	H
	*	2462	100.87	-	-	90.02	27.35	16.72	33.22	235	38	A	H
		2483.76	64.47	-9.53	74	53.68	27.26	16.74	33.21	235	38	P	H
		2483.56	47.54	-6.46	54	36.74	27.27	16.74	33.21	235	38	A	H
													H
													H
	*	2462	111.28	-	-	100.43	27.35	16.72	33.22	281	78	P	V
	*	2462	103.52	-	-	92.67	27.35	16.72	33.22	281	78	A	V
		2485	65.45	-8.55	74	54.66	27.26	16.74	33.21	281	78	P	V
		2483.6	49.19	-4.81	54	38.39	27.27	16.74	33.21	281	78	A	V
													V
													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. 0+1	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	40.52	-33.48	74	59.33	31	11.09	60.9	100	0	P	H
													H
													H
													H
		4824	39.86	-34.14	74	58.67	31	11.09	60.9	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	40.44	-33.56	74	59.16	31	11.13	60.85	100	0	P	H
		7311	44.29	-29.71	74	55.04	36.5	13.67	60.92	100	0	P	H
													H
													H
		4874	40.65	-33.35	74	59.37	31	11.13	60.85	100	0	P	V
		7311	43.88	-30.12	74	54.63	36.5	13.67	60.92	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	41.12	-32.88	74	59.71	31.05	11.16	60.8	100	0	P	H
		7386	43.06	-30.94	74	54.04	36.36	13.57	60.91	100	0	P	H
													H
													H
		4924	40.7	-33.3	74	59.29	31.05	11.16	60.8	100	0	P	V
		7386	42.69	-31.31	74	53.67	36.36	13.57	60.91	100	0	P	V
													V
													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 HT40 (Band Edge @ 3m)

WIFI Ant. 0+1	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 HT40 CH 03 2422MHz		2389.2	58.72	-15.28	74	47.79	27.52	16.64	33.23	215	32	P	H
		2390	47.99	-6.01	54	37.06	27.52	16.64	33.23	215	32	A	H
	*	2422	103.5	-	-	92.6	27.46	16.67	33.23	215	32	P	H
	*	2422	95.3	-	-	84.4	27.46	16.67	33.23	215	32	A	H
		2485.92	54.64	-19.36	74	43.85	27.26	16.74	33.21	215	32	P	H
		2484.08	43.82	-10.18	54	33.03	27.26	16.74	33.21	215	32	A	H
		2389.04	58.2	-15.8	74	47.27	27.52	16.64	33.23	126	87	P	V
		2390	49.8	-4.2	54	38.87	27.52	16.64	33.23	126	87	A	V
	*	2422	105.43	-	-	94.53	27.46	16.67	33.23	126	87	P	V
	*	2422	97.53	-	-	86.63	27.46	16.67	33.23	126	87	A	V
		2486.72	53.21	-20.79	74	42.43	27.25	16.74	33.21	126	87	P	V
		2485.04	44.18	-9.82	54	33.39	27.26	16.74	33.21	126	87	A	V
802.11n HT40 CH 04 2427MHz		2389.84	58.05	-15.95	74	47.12	27.52	16.64	33.23	236	39	P	H
		2390	48.85	-5.15	54	37.92	27.52	16.64	33.23	236	39	A	H
	*	2427	104.92	-	-	94.02	27.45	16.68	33.23	236	39	P	H
	*	2427	97.1	-	-	86.2	27.45	16.68	33.23	236	39	A	H
		2483.92	56.97	-17.03	74	46.18	27.26	16.74	33.21	236	39	P	H
		2483.92	43.91	-10.09	54	33.12	27.26	16.74	33.21	236	39	A	H
		2389.68	59.59	-14.41	74	48.66	27.52	16.64	33.23	122	73	P	V
		2389.68	49.73	-4.27	54	38.8	27.52	16.64	33.23	122	73	A	V
	*	2427	106.71	-	-	95.81	27.45	16.68	33.23	122	73	P	V
	*	2427	99.21	-	-	88.31	27.45	16.68	33.23	122	73	A	V
		2483.76	53.5	-20.5	74	42.71	27.26	16.74	33.21	122	73	P	V
		2483.76	43.5	-10.5	54	32.71	27.26	16.74	33.21	122	73	A	V



WIFI Ant. 0+1	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 HT40 CH 06 2437MHz		2389.84	60.07	-13.93	74	49.14	27.52	16.64	33.23	210	34	P	H
		2390	49.28	-4.72	54	38.35	27.52	16.64	33.23	210	34	A	H
	*	2437	107.47	-	-	96.57	27.43	16.69	33.22	210	34	P	H
	*	2437	99.3	-	-	88.4	27.43	16.69	33.22	210	34	A	H
		2484.24	58.3	-15.7	74	47.51	27.26	16.74	33.21	210	34	P	H
		2483.76	48.2	-5.8	54	37.41	27.26	16.74	33.21	210	34	A	H
		2389.84	59.78	-14.22	74	48.85	27.52	16.64	33.23	129	73	P	V
		2389.52	49.56	-4.44	54	38.63	27.52	16.64	33.23	129	73	A	V
	*	2437	109.81	-	-	98.91	27.43	16.69	33.22	129	73	P	V
	*	2437	101.68	-	-	90.78	27.43	16.69	33.22	129	73	A	V
		2483.52	60.67	-13.33	74	49.87	27.27	16.74	33.21	129	73	P	V
		2483.6	50.5	-3.5	54	39.7	27.27	16.74	33.21	129	73	A	V
802.11n HT40 CH 08 2447MHz		2390	58.22	-15.78	74	47.29	27.52	16.64	33.23	209	36	P	H
		2389.2	44.66	-9.34	54	33.73	27.52	16.64	33.23	209	36	A	H
	*	2447	106.09	-	-	95.2	27.41	16.7	33.22	209	36	P	H
	*	2447	97.6	-	-	86.71	27.41	16.7	33.22	209	36	A	H
		2483.84	58.85	-15.15	74	48.06	27.26	16.74	33.21	209	36	P	H
		2484.48	49.04	-4.96	54	38.25	27.26	16.74	33.21	209	36	A	H
		2387.92	53.21	-20.79	74	42.28	27.52	16.64	33.23	127	85	P	V
		2389.04	44.27	-9.73	54	33.34	27.52	16.64	33.23	127	85	A	V
	*	2447	108.56	-	-	97.67	27.41	16.7	33.22	127	85	P	V
	*	2447	100.98	-	-	90.09	27.41	16.7	33.22	127	85	A	V
		2484.56	58.82	-15.18	74	48.03	27.26	16.74	33.21	127	85	P	V
		2484.32	50.61	-3.39	54	39.82	27.26	16.74	33.21	127	85	A	V



802.11n HT40 CH 09 2452MHz		2389.84	57.02	-16.98	74	46.09	27.52	16.64	33.23	246	41	P	H
		2389.52	44.63	-9.37	54	33.7	27.52	6.71	33.23	246	41	A	H
	*	2452	107.77	-	-	96.9	27.39	6.77	33.22	246	41	P	H
	*	2452	99.15	-	-	88.28	27.39	6.77	33.22	246	41	A	H
		2486.32	60.65	-13.35	74	49.87	27.25	6.81	33.21	246	41	P	H
		2483.52	48.6	-5.4	54	37.8	27.27	6.81	33.21	246	41	A	H
		2390	58.42	-15.58	74	47.49	27.52	6.71	33.23	182	89	P	V
		2389.52	44.75	-9.25	54	33.82	27.52	6.71	33.23	182	89	A	V
	*	2452	108.32	-	-	97.45	27.39	6.77	33.22	182	89	P	V
	*	2452	100.58	-	-	89.71	27.39	6.77	33.22	182	89	A	V
		2485.52	60.47	-13.53	74	49.68	27.26	6.81	33.21	182	89	P	V
		2484.08	50.27	-3.73	54	39.48	27.26	6.81	33.21	182	89	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 HT40 (Harmonic @ 3m)

WIFI Ant. 0+1	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 HT40 CH 03 2422MHz		4844	40.41	-33.59	74	59.19	31	11.1	60.88	100	0	P	H
		7266	44.36	-29.64	74	55.12	36.43	13.74	60.93	100	0	P	H
													H
													H
		4844	40.28	-33.72	74	59.06	31	11.1	60.88	100	0	P	V
		7266	44.37	-29.63	74	55.13	36.43	13.74	60.93	100	0	P	V
													V
													V
802.11n HT40 CH 04 2427MHz		4854	40.13	-33.87	74	58.89	31	11.11	60.87	100	0	P	H
		7281	43.45	-30.55	74	54.2	36.46	13.72	60.93	100	0	P	H
													H
													H
		4854	40.66	-33.34	74	59.42	31	11.11	60.87	100	0	P	V
		7281	42.97	-31.03	74	53.72	36.46	13.72	60.93	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4874	40.67	-33.33	74	59.39	31	11.13	60.85	100	0	P	H
		7311	44.62	-29.38	74	55.37	36.5	13.67	60.92	100	0	P	H
													H
													H
		4874	41.38	-32.62	74	60.1	31	11.13	60.85	100	0	P	V
		7311	44.37	-29.63	74	55.12	36.5	13.67	60.92	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 0+1	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 HT40 CH 08 2447MHz		4894	40.88	-33.12	74	59.57	31	11.14	60.83	100	0	P	H
		7341	44.16	-29.84	74	54.95	36.5	13.63	60.92	100	0	P	H
													H
													H
		4894	41.14	-32.86	74	59.83	31	11.14	60.83	100	0	P	V
		7341	44.06	-29.94	74	54.85	36.5	13.63	60.92	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	39.88	-34.12	74	58.54	31.01	11.14	60.81	100	0	P	H
		7356	43.71	-30.29	74	54.54	36.48	13.61	60.92	100	0	P	H
													H
													H
		4904	40.85	-33.15	74	59.51	31.01	11.14	60.81	100	0	P	V
		7356	45.09	-28.91	74	55.92	36.48	13.61	60.92	100	0	P	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		40.67	26.19	-13.81	40	38.96	18.85	0.86	32.48	-	-	P	H
		207.51	23.47	-20.03	43.5	39.16	14.88	1.99	32.56	-	-	P	H
		267.65	24.18	-21.82	46	34.59	19.67	2.25	32.33	-	-	P	H
		878.75	31.97	-14.03	46	30.56	29.07	4.16	31.82	-	-	P	H
		943.74	32.03	-13.97	46	29.11	29.74	4.33	31.15	-	-	P	H
		953.44	33.4	-12.6	46	29.81	30.26	4.35	31.02	100	0	P	H
													H
													H
													H
													H
													H
													H
		40.67	32.05	-7.95	40	44.82	18.85	0.86	32.48	100	0	P	V
		160.95	21.79	-21.71	43.5	36.35	16.16	1.79	32.51	-	-	P	V
		239.52	23.89	-22.11	46	37.92	16.28	2.13	32.44	-	-	P	V
		913.67	32.18	-13.82	46	30.6	28.88	4.25	31.55	-	-	P	V
		942.77	32.22	-13.78	46	29.37	29.69	4.33	31.17	-	-	P	V
		954.41	33.57	-12.43	46	29.91	30.32	4.35	31.01	-	-	P	V
													V
													V
												V	
												V	
												V	
												V	
												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.	
0+1		(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 :	Cookie Ku, Fu Chen and Troye Hsieh	Temperature :	18.1 ~ 26.1°C
		Relative Humidity :	37.2 ~ 68.9%

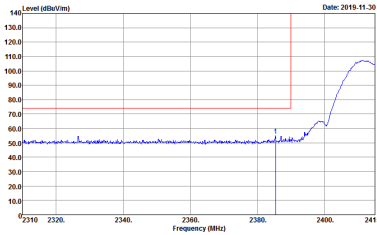
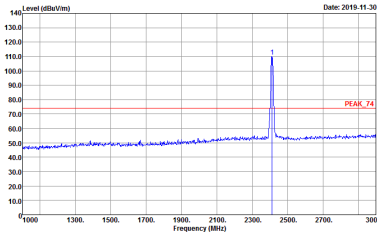
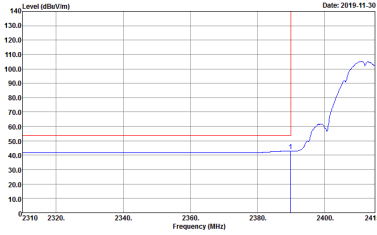
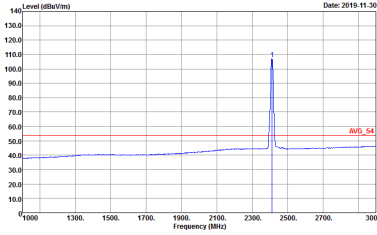
Note symbol

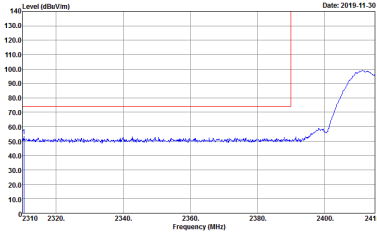
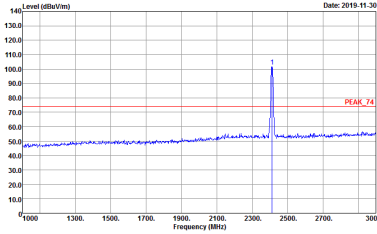
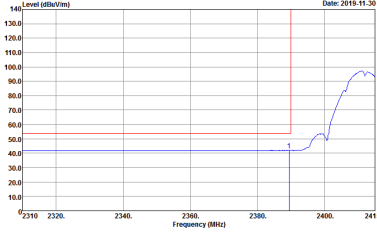
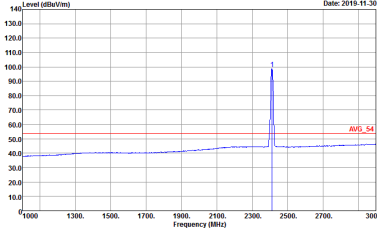
-L	Low channel location
-R	High channel location

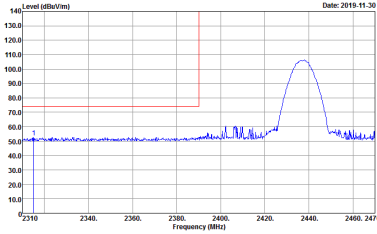
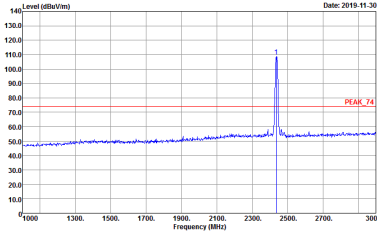
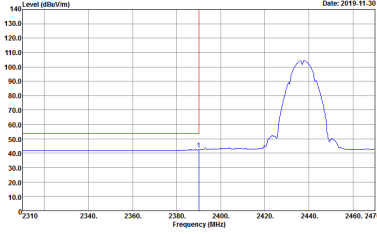
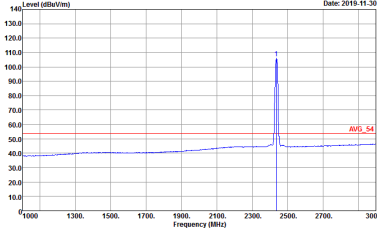


2.4GHz 2400~2483.5MHz

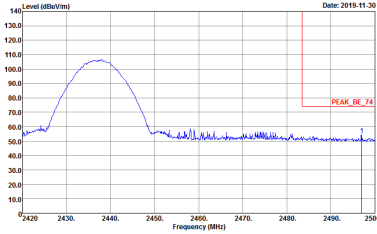
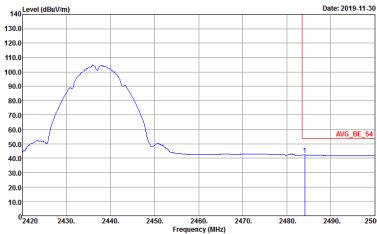
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
0	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 16.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 16.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 16.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 16.5

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16.5

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
0	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 16.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 16.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 16.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 16.5

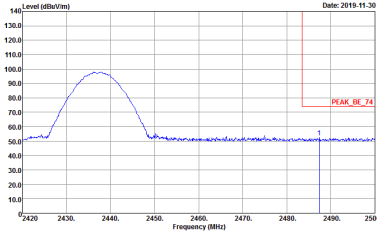
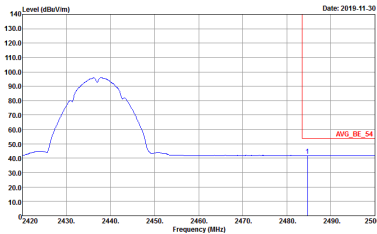


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
0	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16.5	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16.5	Left blank

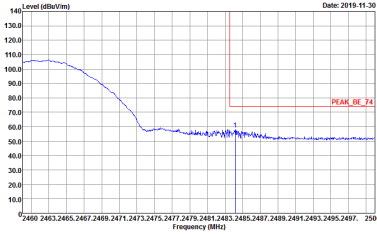
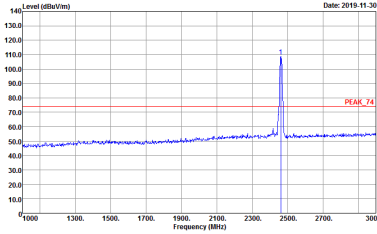
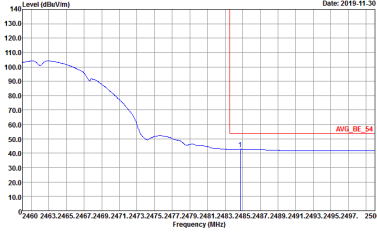
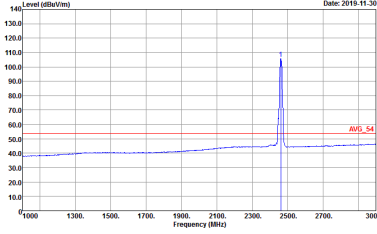


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
0	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16.5	Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16.5
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16.5	Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16.5

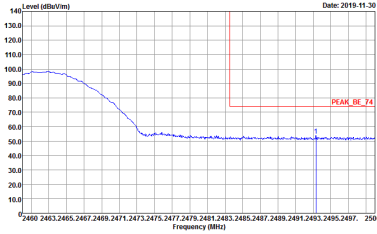
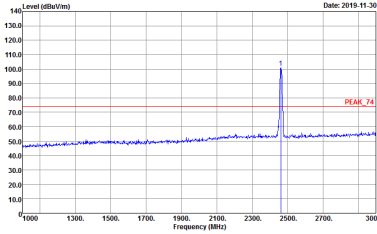
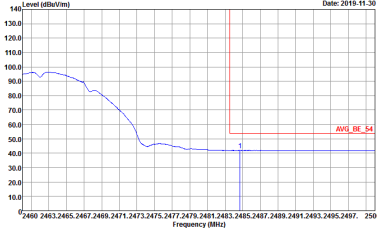
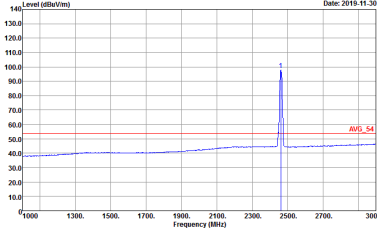


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16.5	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16.5	Left blank

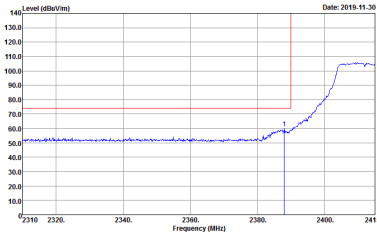
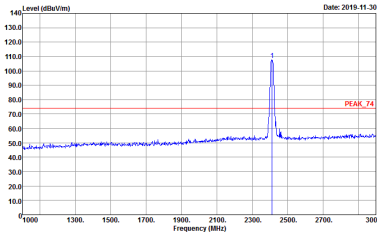
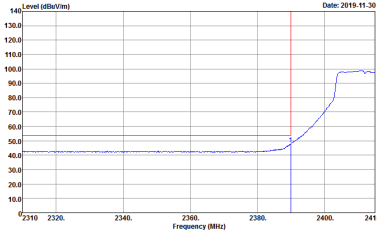
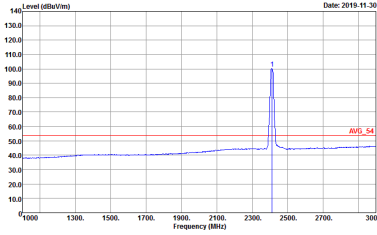


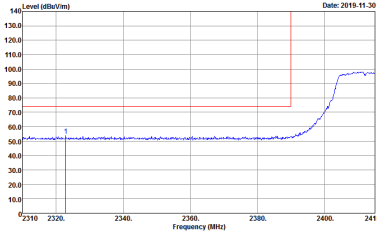
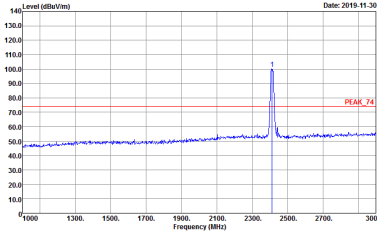
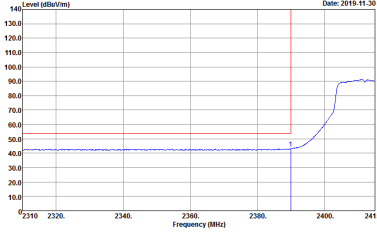
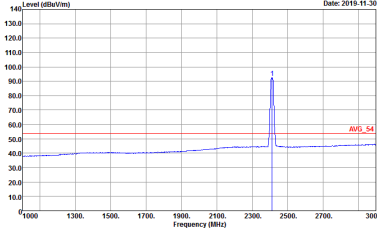
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
0	Horizontal	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16	 Site : 03CH11-HV Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16	 Site : 03CH11-HV Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16



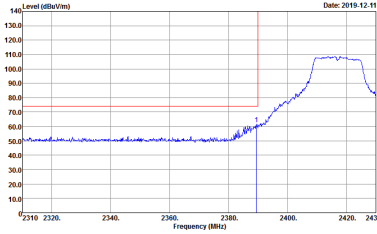
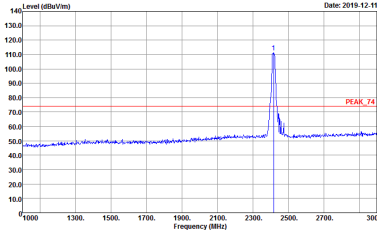
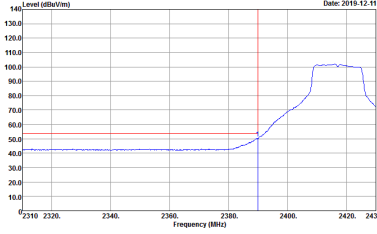
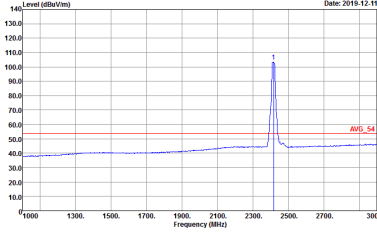
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 16

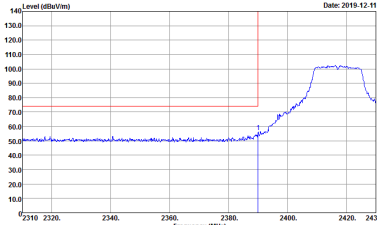
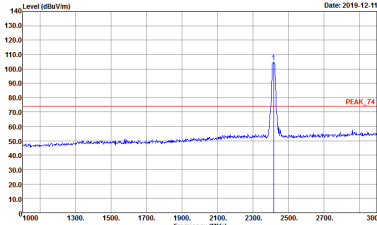
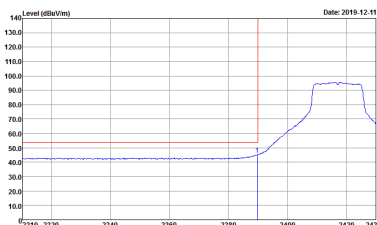
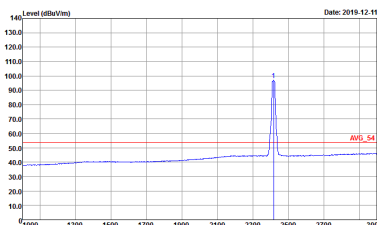
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

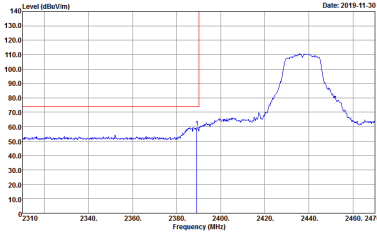
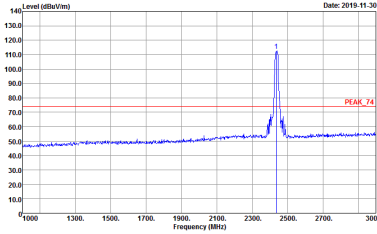
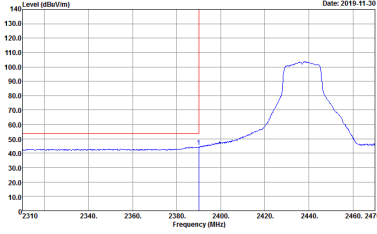
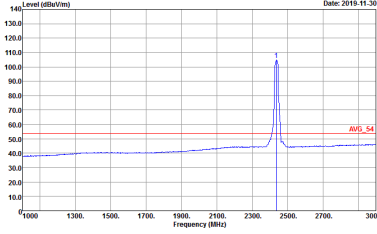
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
0	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 13	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 13
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 13	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 13

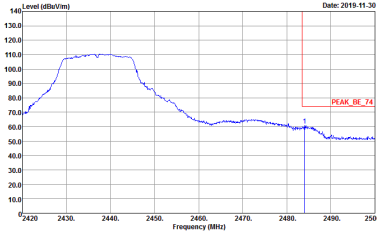
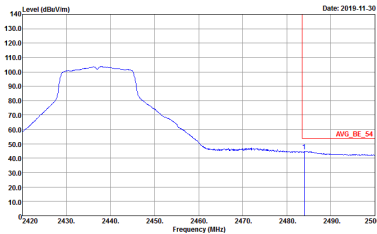
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 13	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 13
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 13	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 13



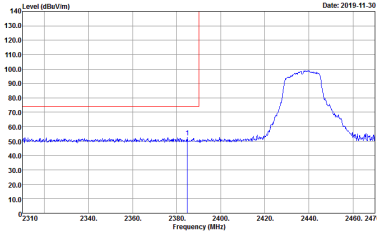
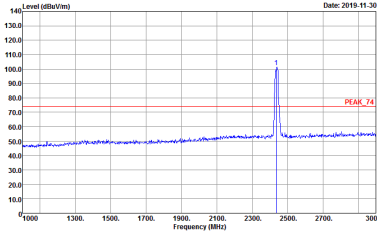
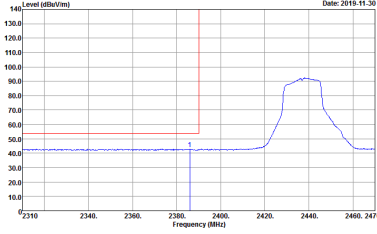
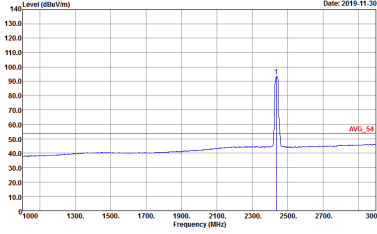
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH02 2417MHz	
0	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 18	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 18
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 18	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 18

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH02 2417MHz	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 992410-01 Setting : 18	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 992410-01 Setting : 18
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 992410-01 Setting : 18	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 992410-01 Setting : 18
Avg.		

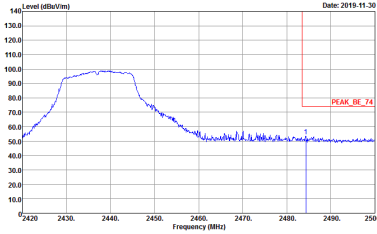
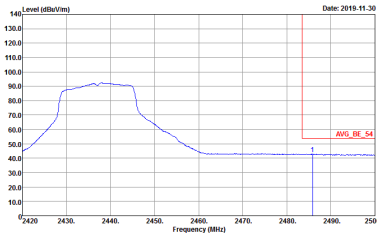
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
0	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 18.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 18.5
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 18.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 18.5
Avg.		

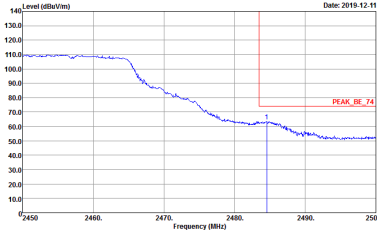
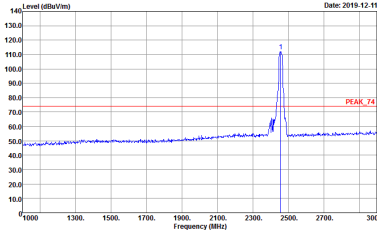
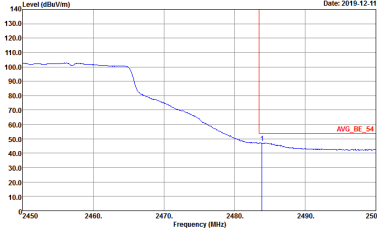
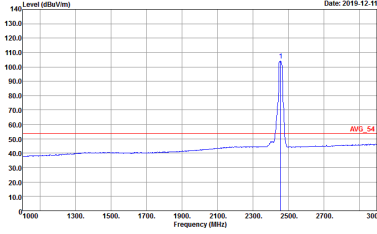
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
0	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 18.5	Left blank
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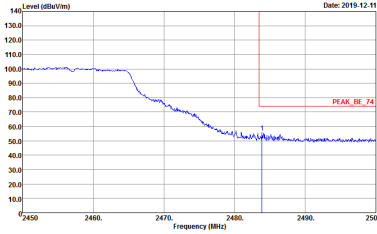
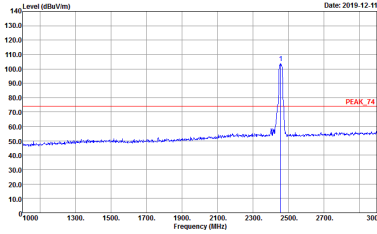
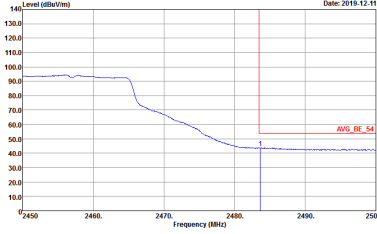
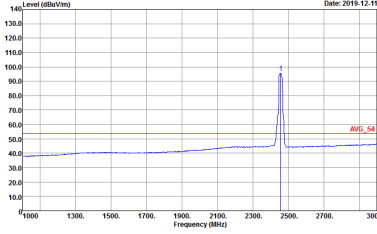


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 18.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 18.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 18.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 18.5



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 18.5	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 18.5	Left Blank

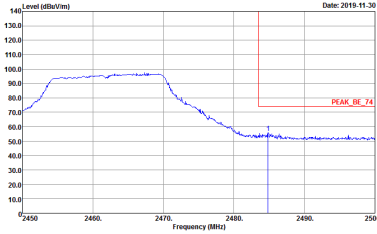
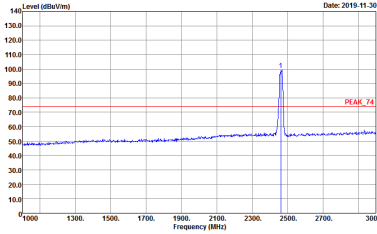
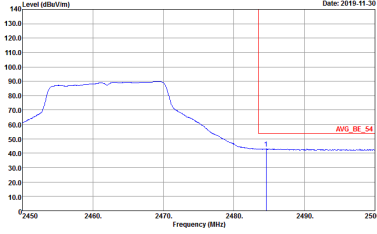
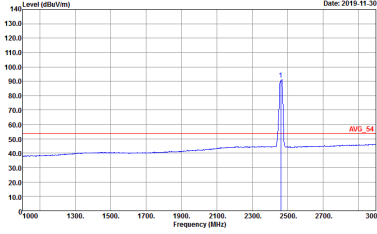
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH10 2457MHz	
0	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 18.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 18.5
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 18.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 18.5
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH10 2457MHz	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 992410-01 Setting : Peak Setting : 18.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 992410-01 Setting : Peak Setting : 18.5
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : 992410-01 Setting : Peak Setting : 18.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : 992410-01 Setting : Peak Setting : 18.5
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
0	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 13.5	Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 13.5
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 13.5	Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 13.5

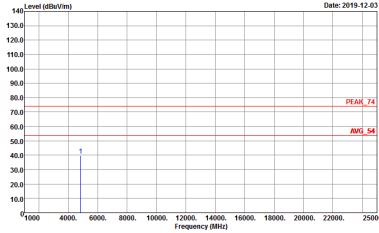
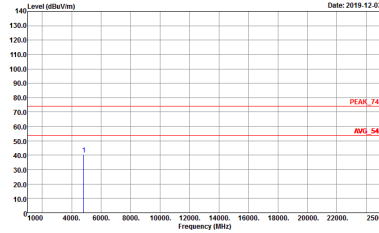


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
0	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 13.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 13.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 13.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 13.5

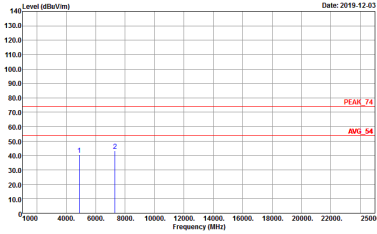
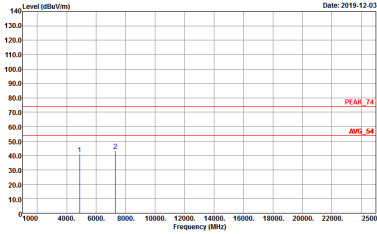


2.4GHz 2400~2483.5MHz

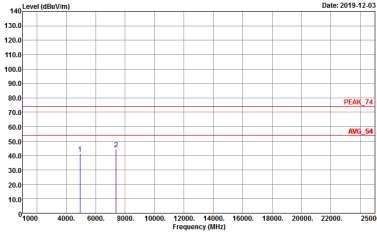
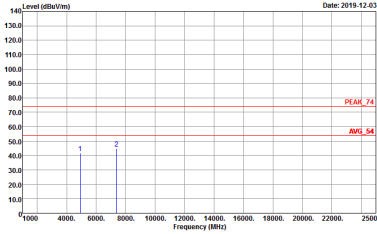
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
0	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-4FY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01	 Site : 03CH11-4FY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
0	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01

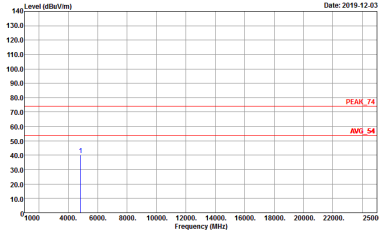
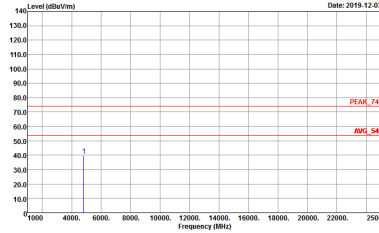


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
0	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01

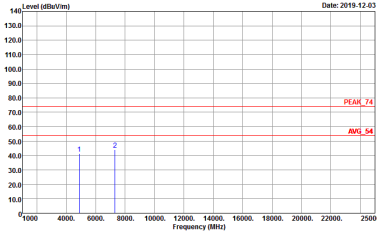
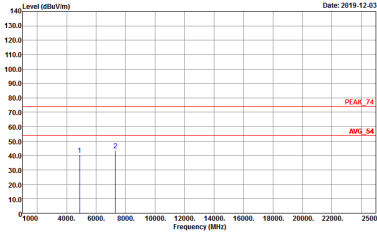


2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
0	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-4FY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01	 Site : 03CH11-4FY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01

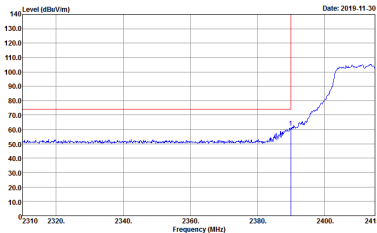
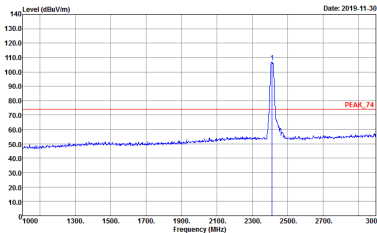
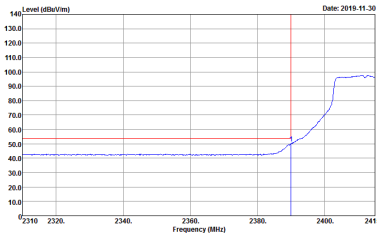
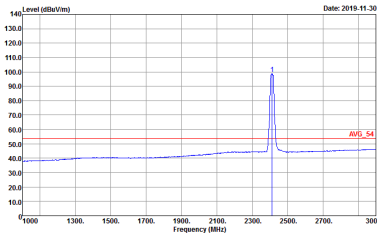


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
0	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01

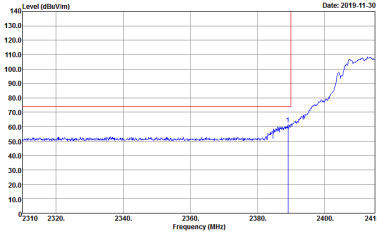
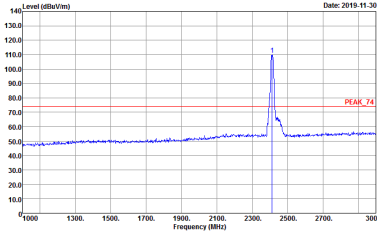
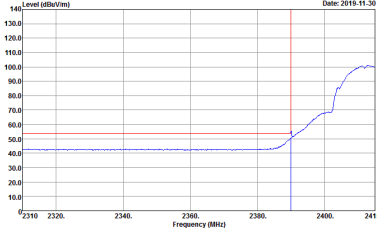
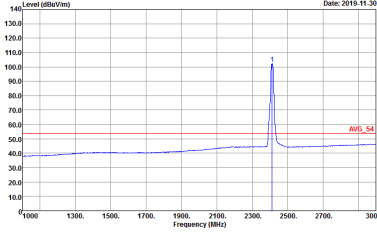


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
0	Horizontal	Vertical
Peak Avg.	Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01	Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01

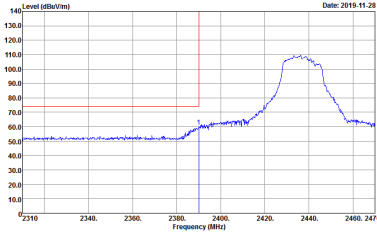
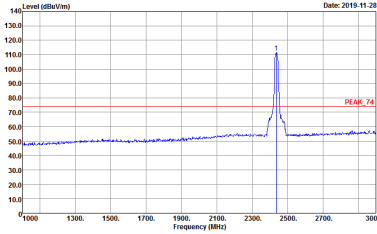
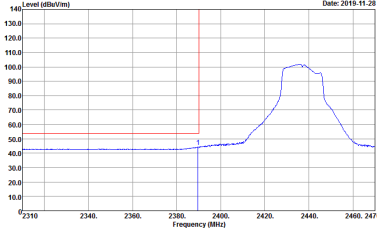
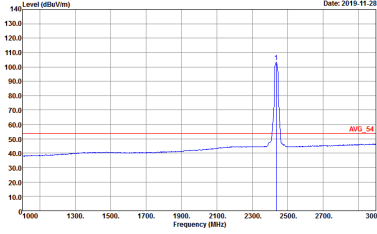
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 12.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 12.5
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 12.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 12.5

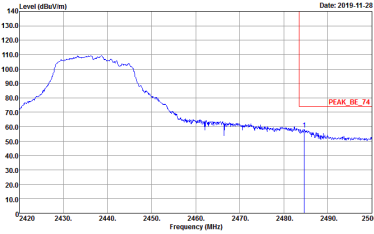
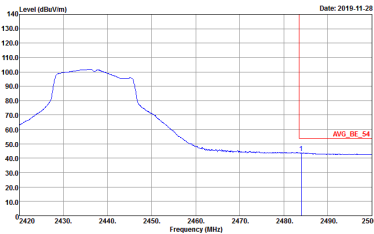


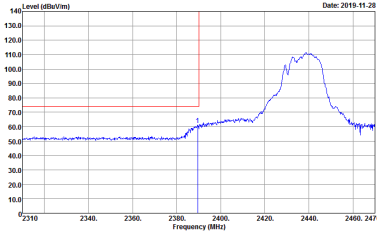
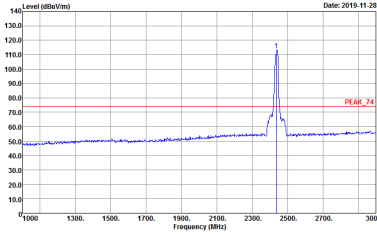
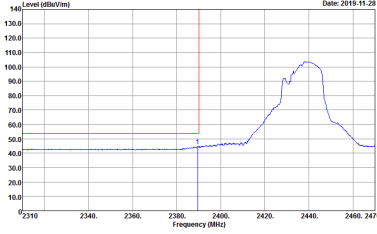
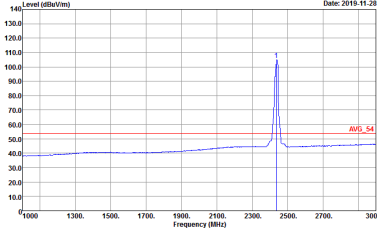
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12.5



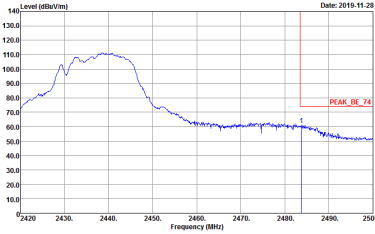
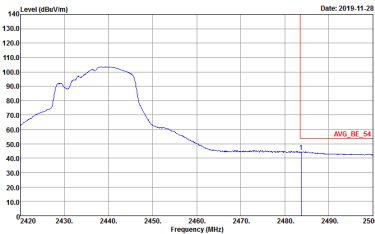
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 15.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 15.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 15.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 15.5



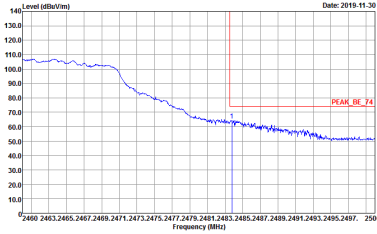
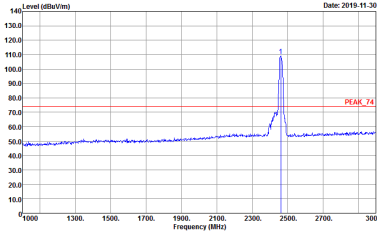
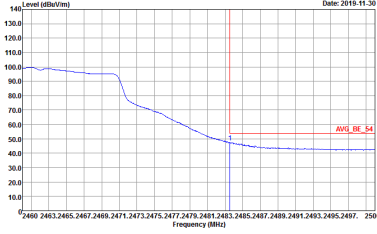
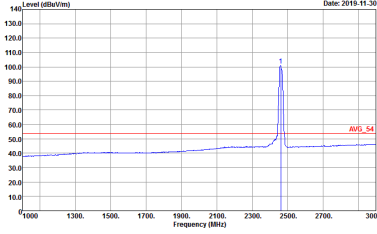
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 15.5	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 15.5	Left blank

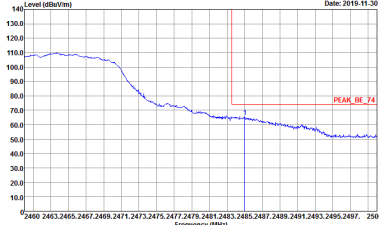
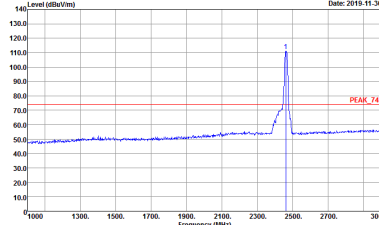
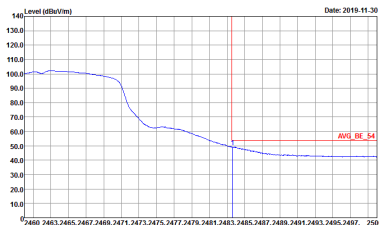
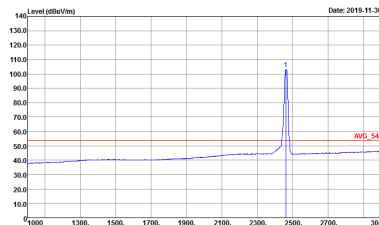
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 15.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 15.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 15.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 15.5



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 15.5	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 15.5	Left Blank



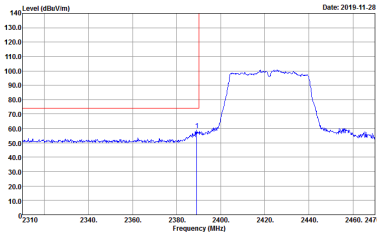
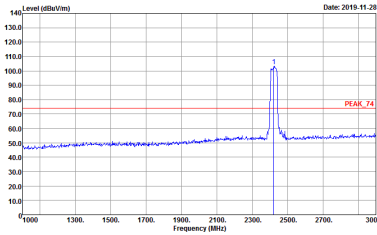
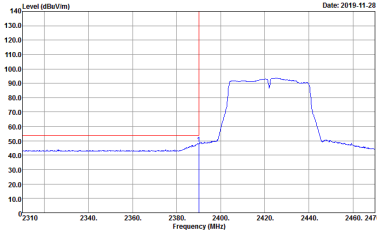
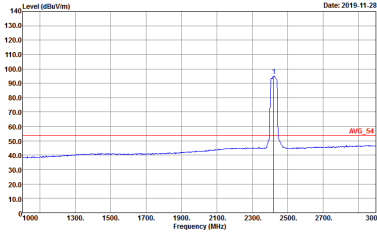
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 13.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 13.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 13.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 13.5

WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
0+1	Vertical	Fundamental
Peak	 Date: 2019-11-30 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 13.5	 Date: 2019-11-30 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 13.5
	 Date: 2019-11-30 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 13.5	 Date: 2019-11-30 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 13.5
Avg.		

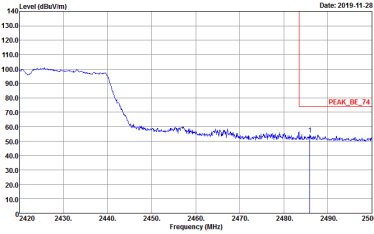
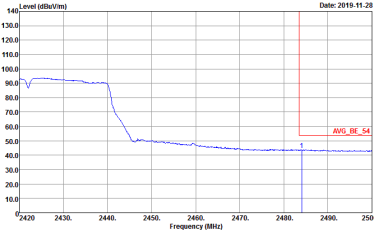


2.4GHz 2400~2483.5MHz

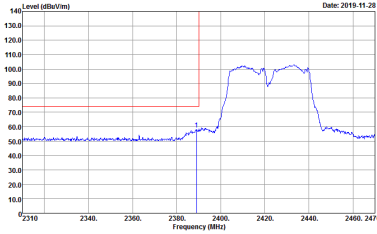
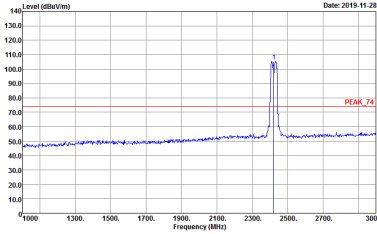
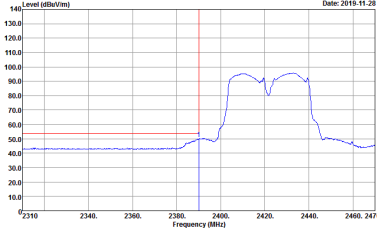
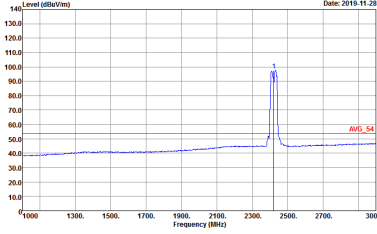
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 9.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 9.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 9.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 9.5

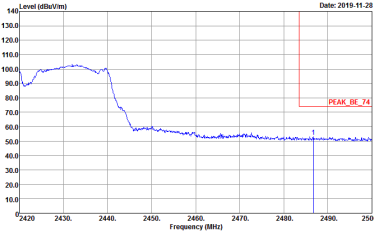
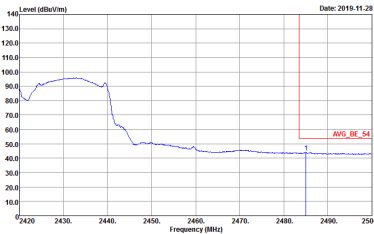


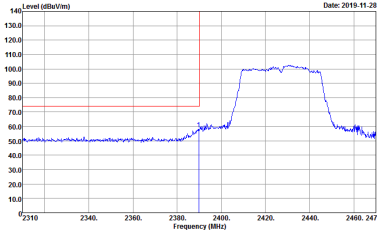
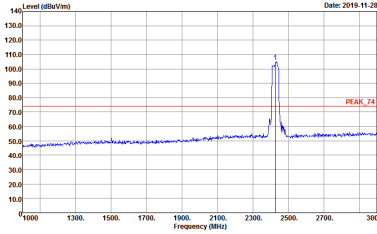
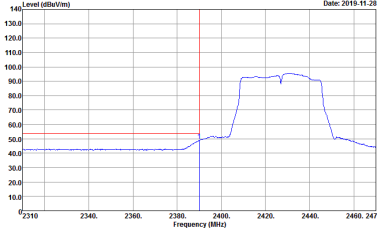
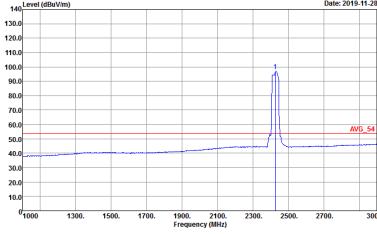
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 9.5	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 9.5	Left Blank



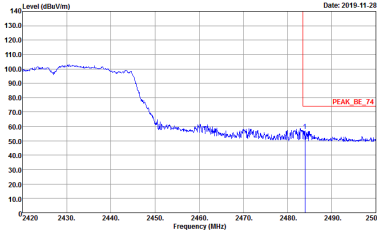
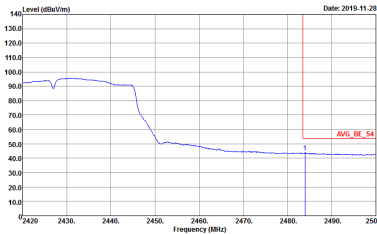
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 9.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 9.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 9.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 9.5

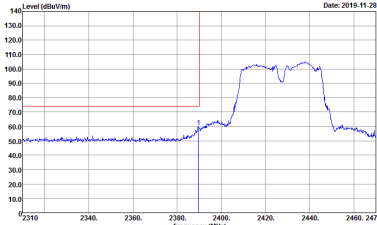
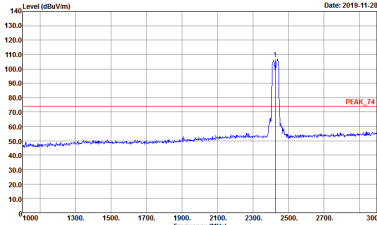
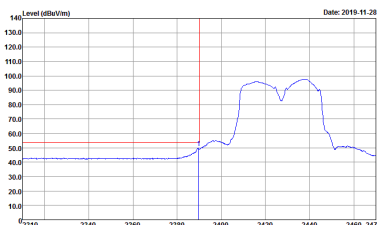
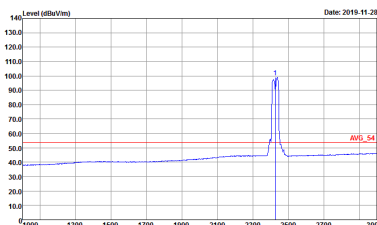


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 9.5	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 9.5	Left blank

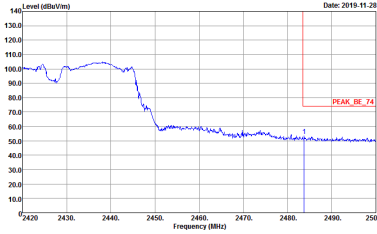
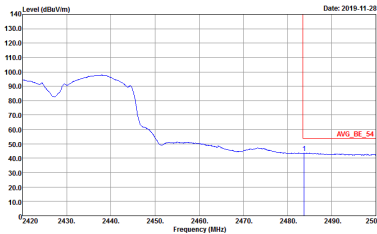
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH04 2427MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 11	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 11
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 11	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 11
Avg.		



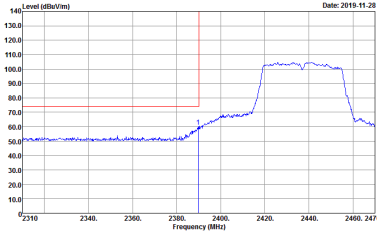
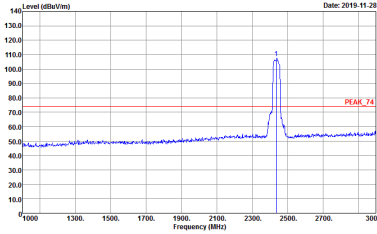
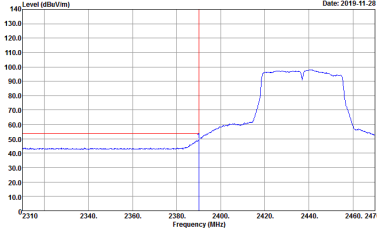
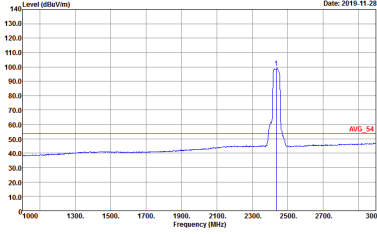
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH04 2427MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 11	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 11	Left Blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH04 2427MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 992410-01 Setting : Peak Setting : 11	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 992410-01 Setting : Peak Setting : 11
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 992410-01 Setting : Peak Setting : 11	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 992410-01 Setting : Peak Setting : 11

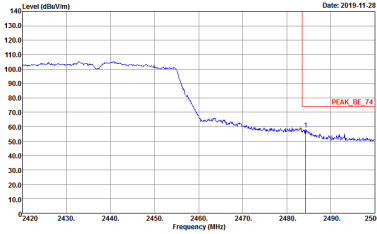
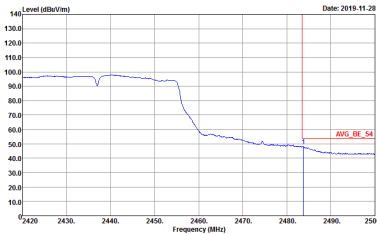


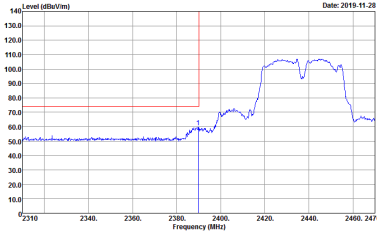
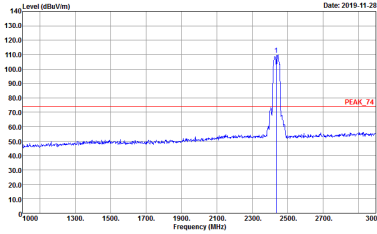
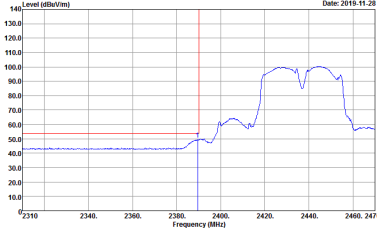
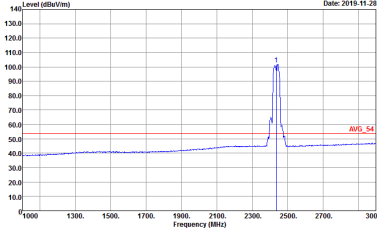
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH04 2427MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 11	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 11	Left blank



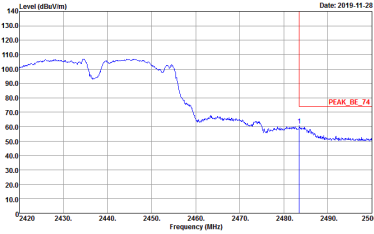
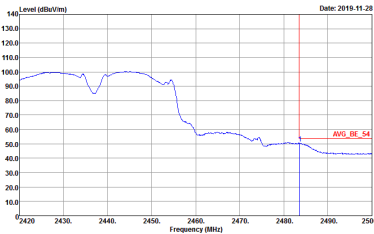
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 14	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 14
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 14	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 14

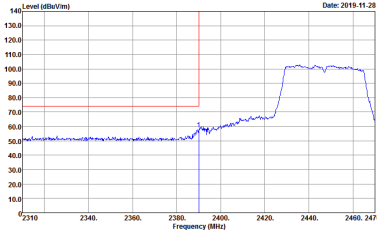
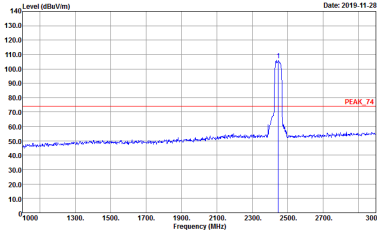
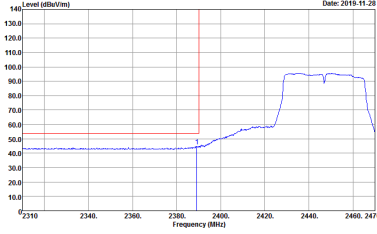
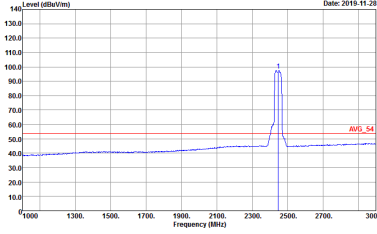


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 14	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 14	Left blank

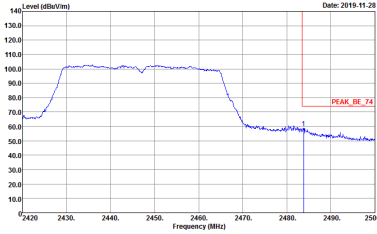
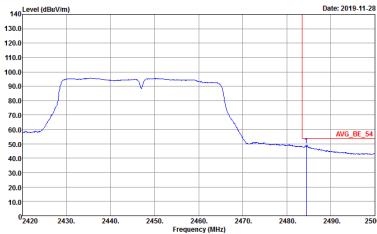
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 14	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 14
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 14	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 14



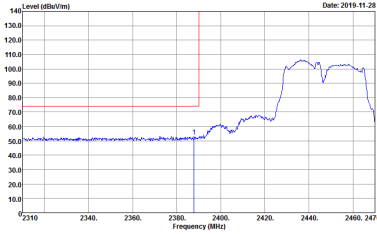
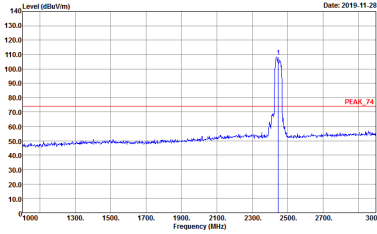
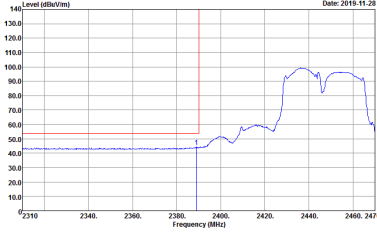
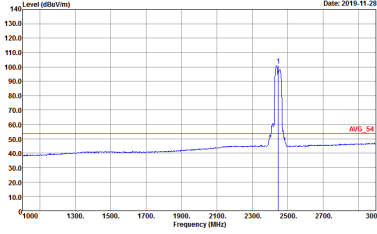
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 14	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 14	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH08 2447MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 12	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 12
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 12	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 12

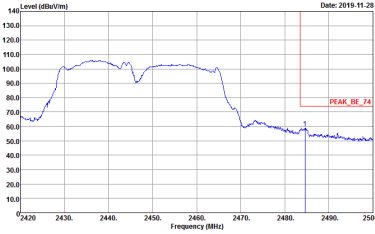
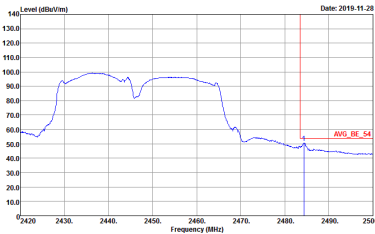


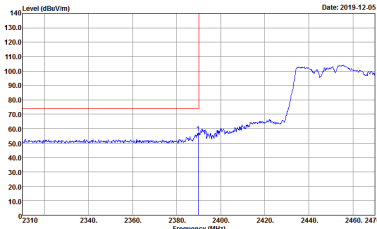
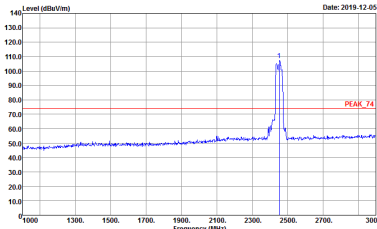
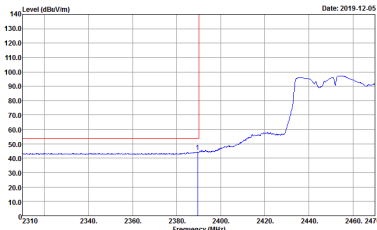
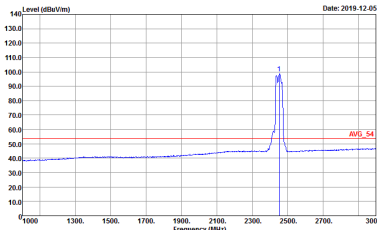
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH08 2447MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12	Left Blank

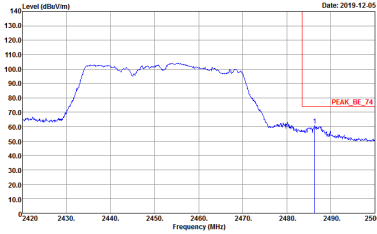
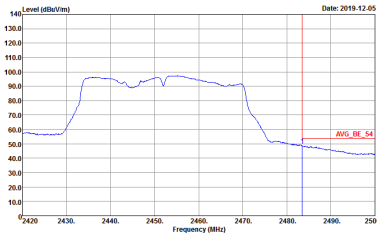


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH08 2447MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01 Setting : 12	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01 Setting : 12
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01 Setting : 12	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01 Setting : 12

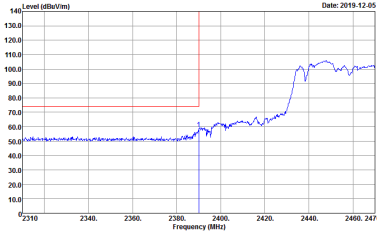
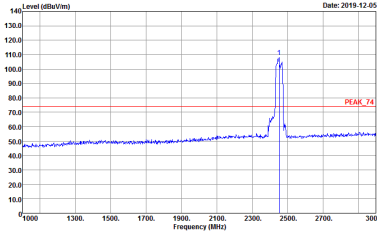
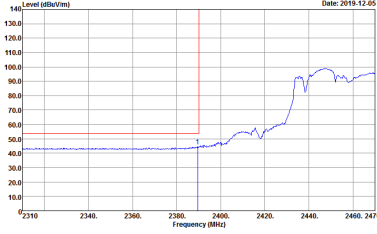
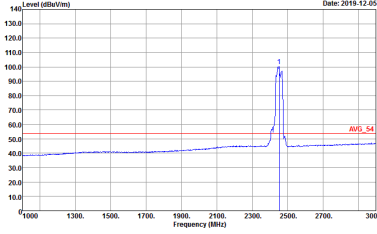


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH08 2447MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12	Left blank

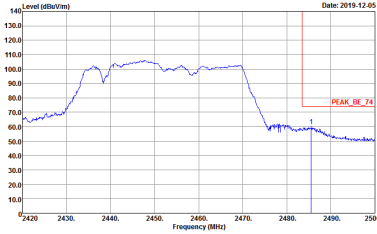
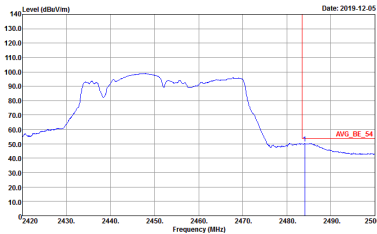
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 12	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01 Setting : 12	Left blank



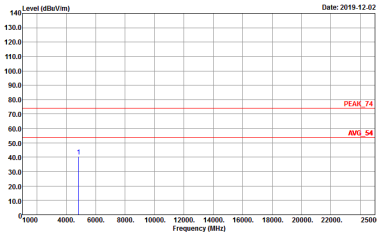
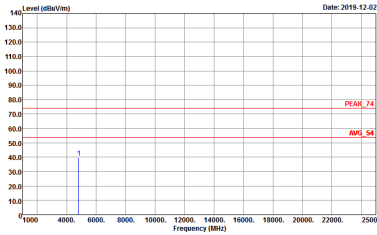
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 12	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 12
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 12	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Setting : 992410-01 Setting : 12



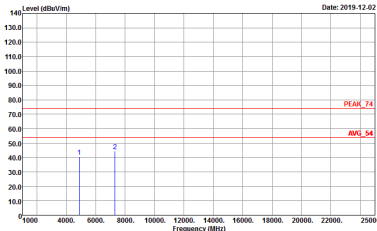
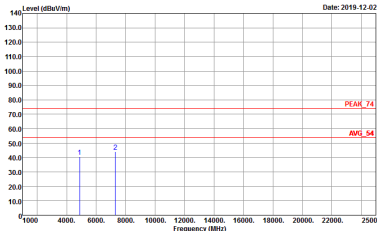
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-01 Setting : 12	Left blank

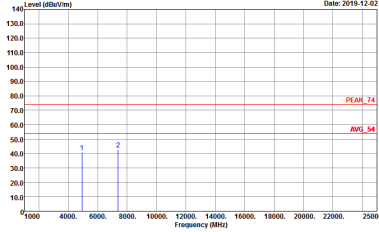
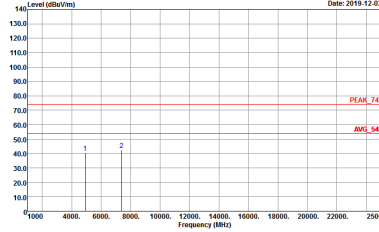


2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-4FY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01	 Site : 03CH11-4FY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01

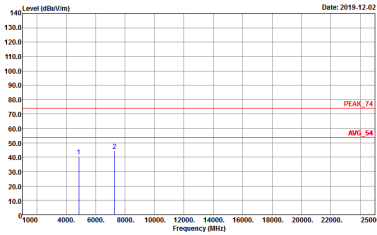
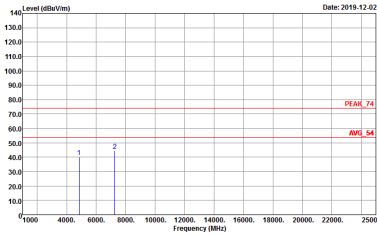


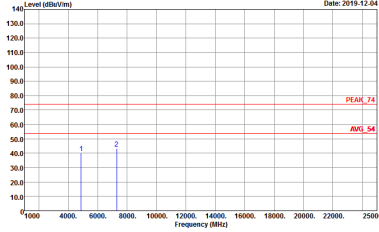
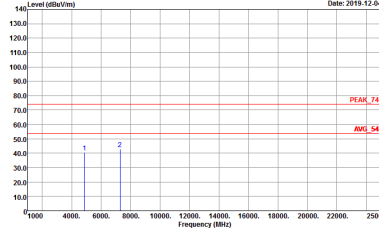
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01

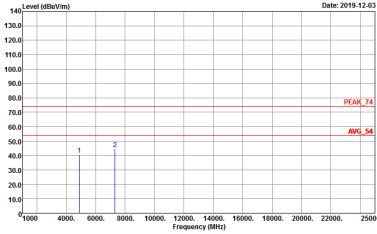
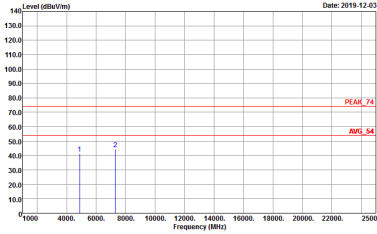
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-4FY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01	 Site : 03CH11-4FY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH04 2427MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 992410-01	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 992410-01

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01

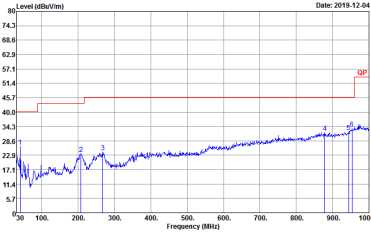
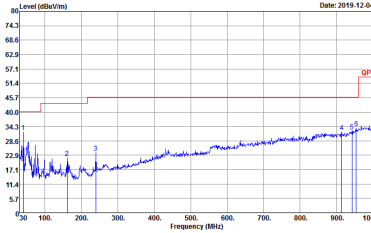


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH08 2447MHz	
0+1	Horizontal	Vertical
Peak Avg.	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 992410-01	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 992410-01



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
0+1	Horizontal	Vertical
Peak Avg.	Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 992410-01	Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 992410-01

Emission below 1GHz
2.4GHz WIFI 802.11n HT20 (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT20 LF	
0+1	Horizontal	Vertical
QP / Peak	 Site : 03CH11-4FY Condition : QP 3m BT-LOG 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 992410-01	 Site : 03CH11-4FY Condition : QP 3m BT-LOG 6111D-LF_ETC VERTICAL Detector : Peak Project : 992410-01

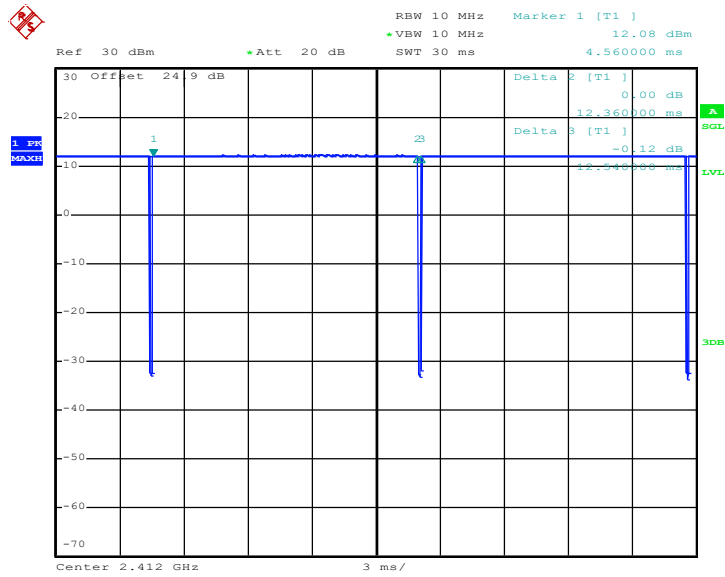
Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
0	802.11b	98.56	-	-	10Hz	0.06
1	802.11b	98.72	-	-	10Hz	0.06
0+1	802.11b for Ant. 0	98.73	-	-	10Hz	0.06
0+1	802.11b for Ant. 1	98.72	-	-	10Hz	0.06
0	802.11g	94.52	2070	0.48	1kHz	0.24
1	802.11g	94.72	2065	0.48	1kHz	0.24
0+1	802.11g for Ant. 0	94.97	2075	0.48	1kHz	0.22
0+1	802.11g for Ant. 1	94.51	2065	0.48	1kHz	0.25
0	2.4GHz 802.11n HT20	94.62	1935	0.52	1kHz	0.24
1	2.4GHz 802.11n HT20	94.39	1935	0.52	1kHz	0.25
0+1	2.4GHz 802.11n HT20 for Ant. 0	94.38	1930	0.52	1kHz	0.25
0+1	2.4GHz 802.11n HT20 for Ant. 1	94.36	1925	0.52	1kHz	0.25
0	2.4GHz 802.11n HT40	90.81	949	1.05	3kHz	0.42
1	2.4GHz 802.11n HT40	90.43	945	1.06	3kHz	0.44
0+1	2.4GHz 802.11n HT40 for Ant. 0	90.24	943	1.06	3kHz	0.45
0+1	2.4GHz 802.11n HT40 for Ant. 1	90.54	948	1.05	3kHz	0.43



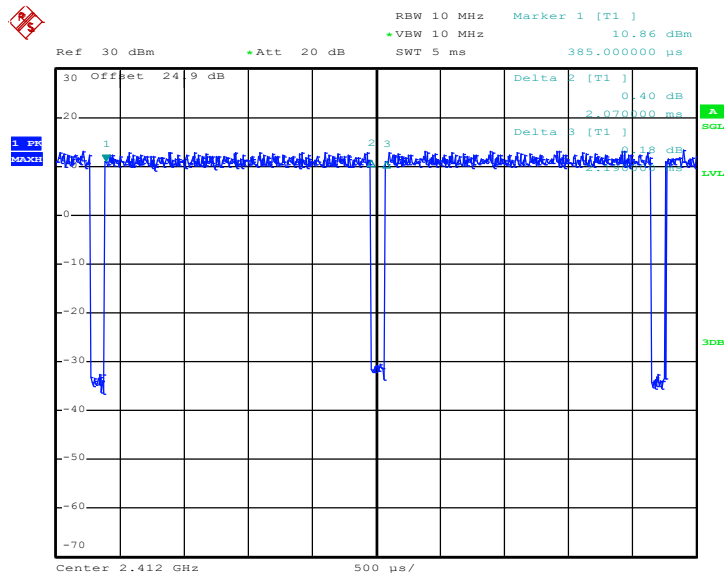
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802.11b



Date: 26.NOV.2019 10:51:01

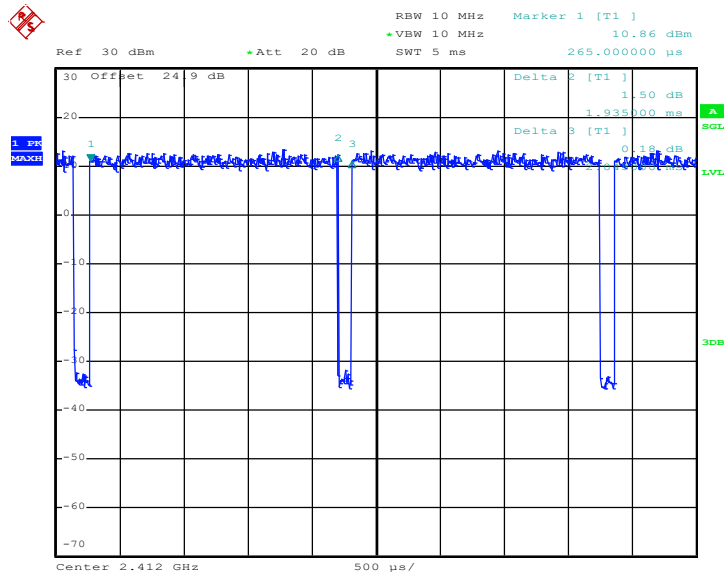
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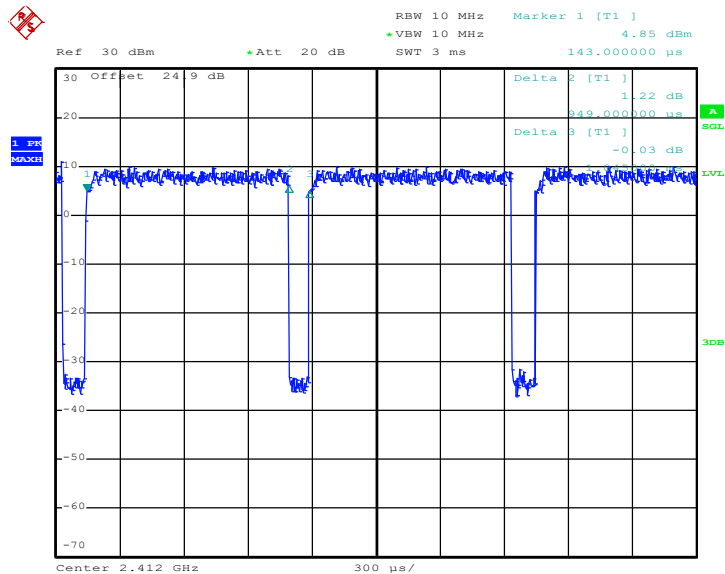


802.11n HT20



Date: 26.NOV.2019 11:01:02

802.11n HT40

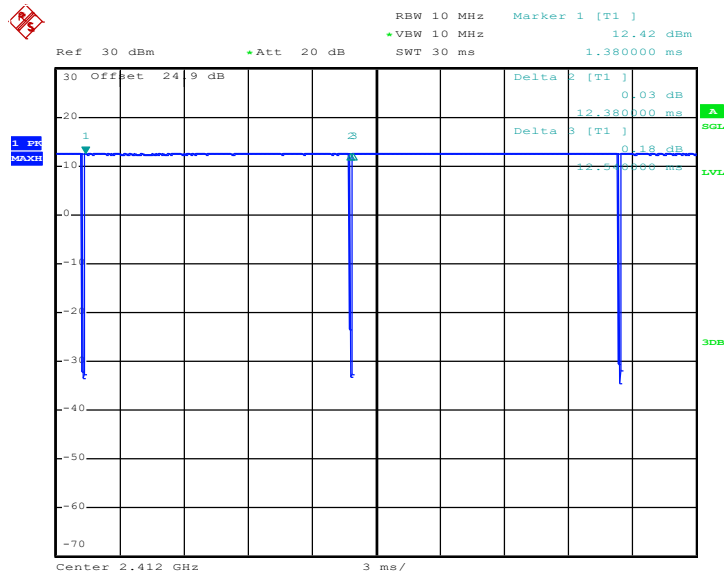


Date: 26.NOV.2019 11:08:35



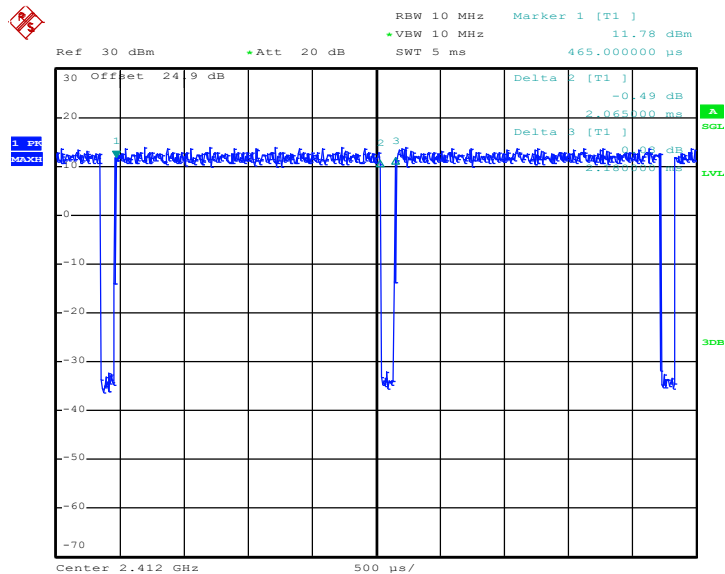
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802.11b



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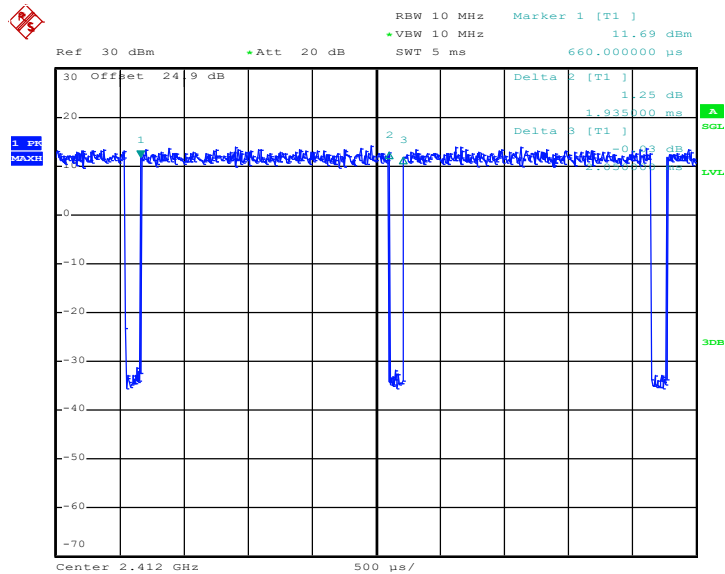
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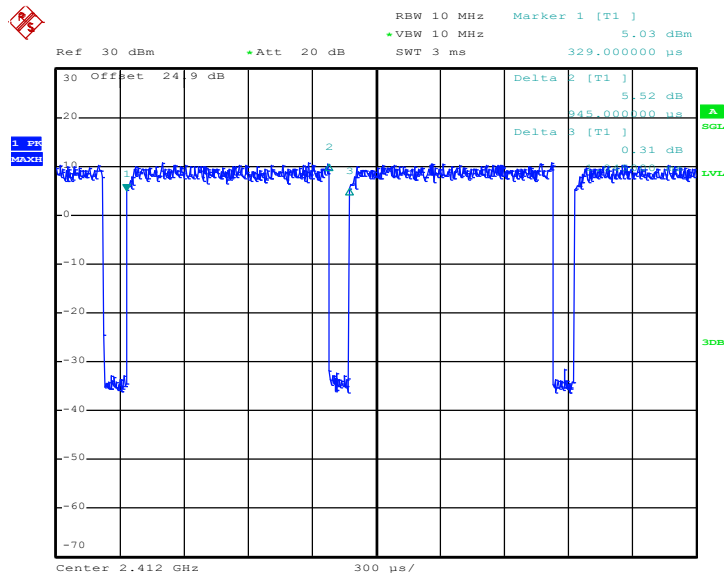


802.11n HT20



Date: 26.NOV.2019 11:01:40

802.11n HT40

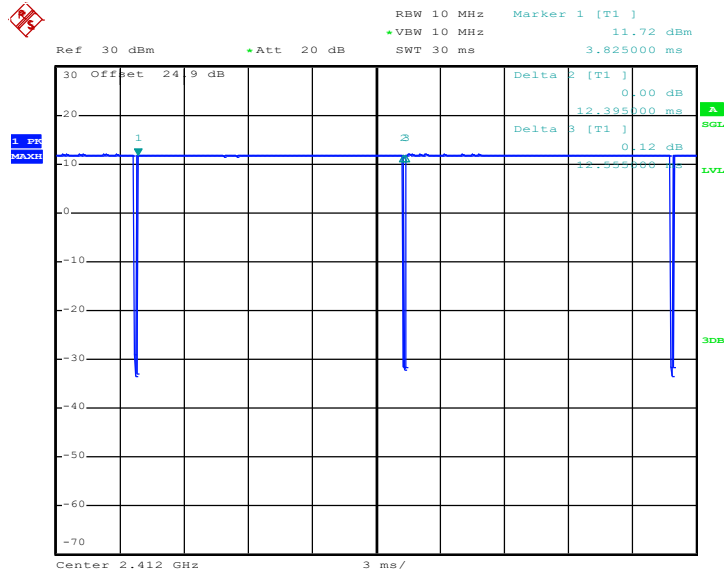


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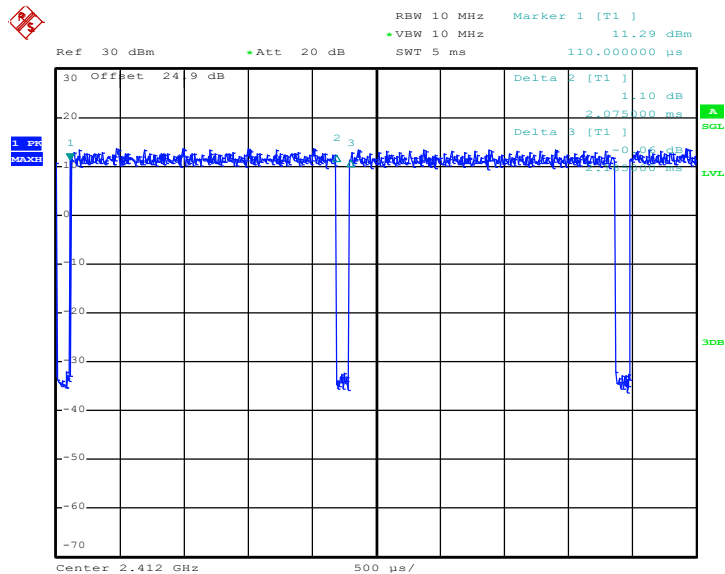
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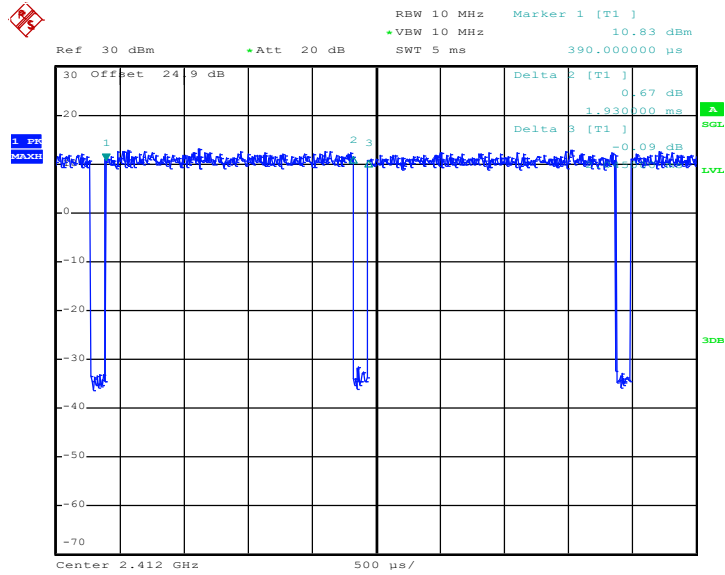
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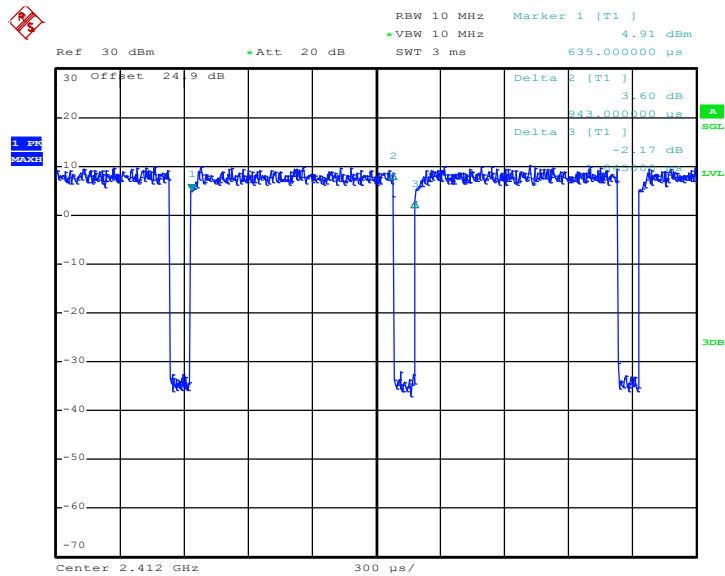


802.11n HT20



Date: 26.NOV.2019 11:02:51

802.11n HT40

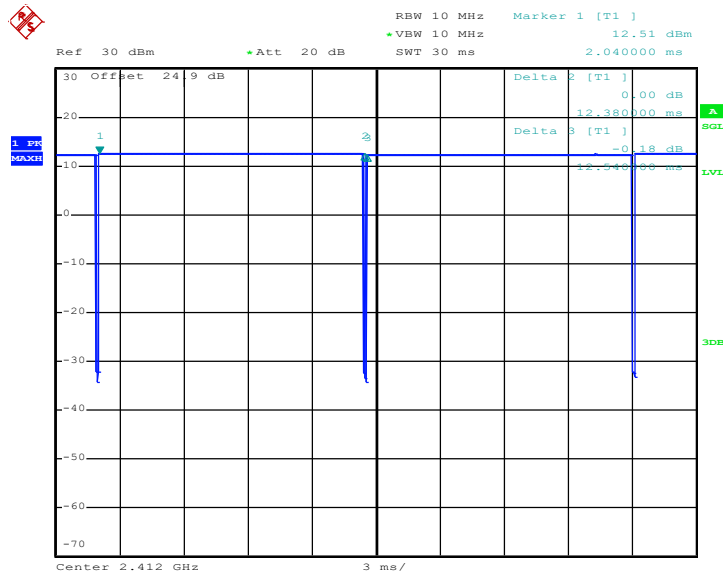


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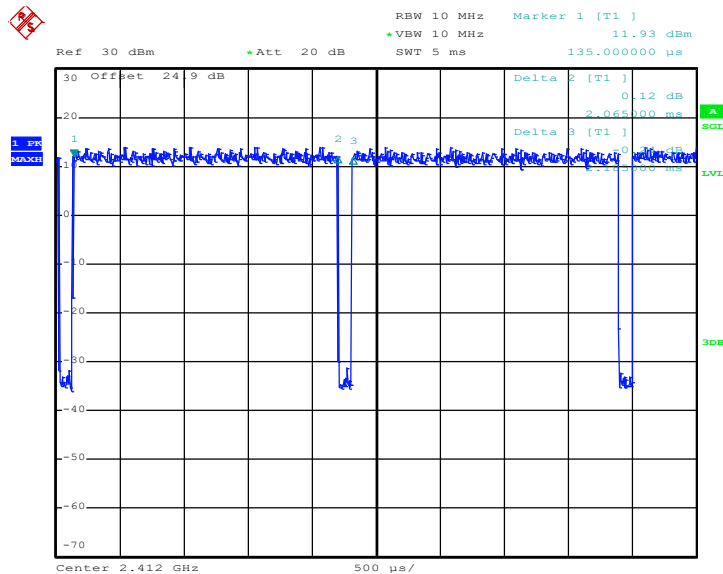
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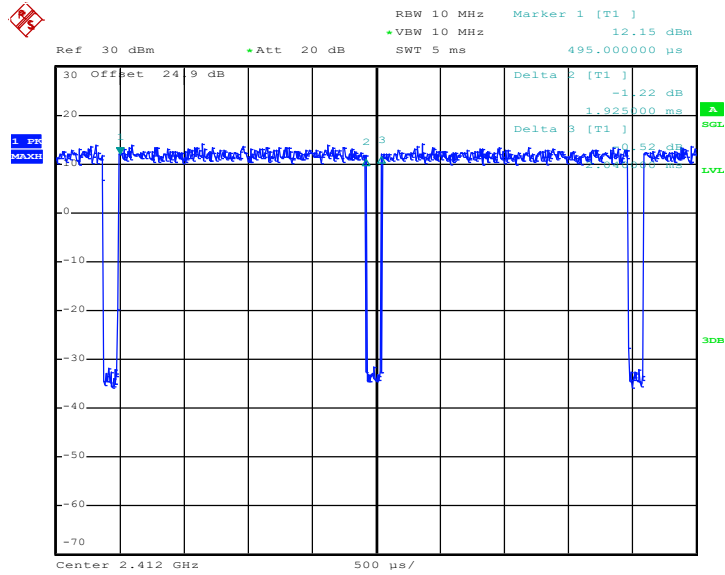
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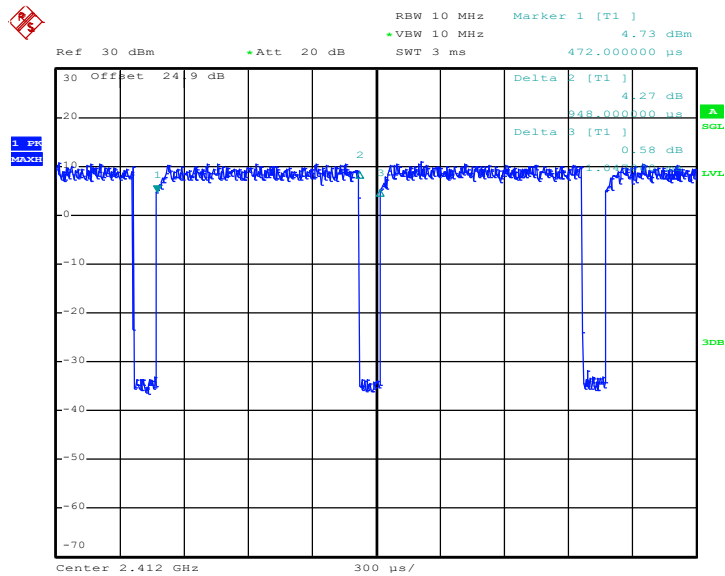


802.11n HT20



Date: 26.NOV.2019 11:03:42

802.11n HT40



Date: 26.NOV.2019 11:10:59