



FCC RADIO TEST REPORT

FCC ID : PY7-35228T
Equipment : GSM/WCDMA/LTE Phone+Bluetooth,
DTS/UNII a/b/g/n/ac and NFC
Brand Name : Sony
Applicant : Sony Mobile Communications Inc.
4-12-3 Higashi-Shinagawa, Shinagawa-ku,
Tokyo, 140-0002, Japan
Manufacturer : Sony Mobile Communications Inc.
4-12-3 Higashi-Shinagawa, Shinagawa-ku,
Tokyo, 140-0002, Japan
Standard : FCC Part 15 Subpart C §15.247

The product was received on Aug. 31, 2018 and testing was started from Sep. 14, 2018 and completed on Nov. 24, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	Under limit 3.08 dB at 2483.520 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 11.56 dB at 1.066 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Reviewed by: Wii Chang

Report Producer: Natasha Hsieh



1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, FM Receiver, NFC, and GNSS.

Standards-related Product Specification	
Antenna Type / Gain	PIFA Antenna with gain -3.2 dBi

EUT Information List			
HW Version	SW Version	S/N	Performed Test Item
A	1.129	CQ3001BTLD	RF conducted measurement
		CQ3001BN5M	Radiated Spurious Emission
		CQ3001BMVB	AC Conducted Emission

Accessory List	
AC Adapter	Model Name: UCH32
	S/N: 6218W30200215 (for radiated emission) 6218W30200140 (for conducted emission)
Earphone	Model Name: MH410c
	S/N: N/A
USB Cable	Model Name: UCB24
	S/N: N/A

Note:

- Above EUT list used are electrically identical per declared by manufacturer.
- Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report. .
- For other wireless features of this EUT, test report will be issued separately.

1.2 Modification of EUT

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



1.3 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH05-HY	CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH11-HY	

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

1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		

2.2 Test Mode

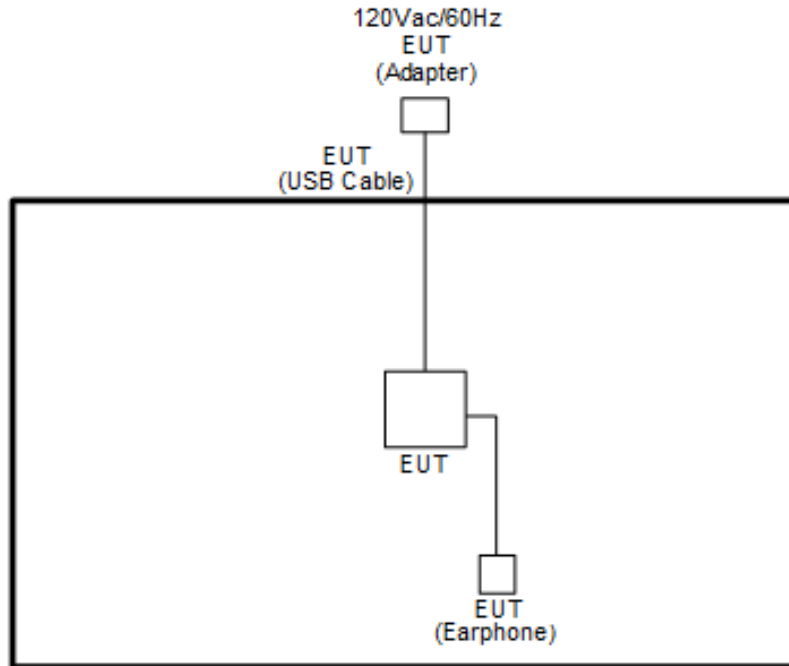
Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

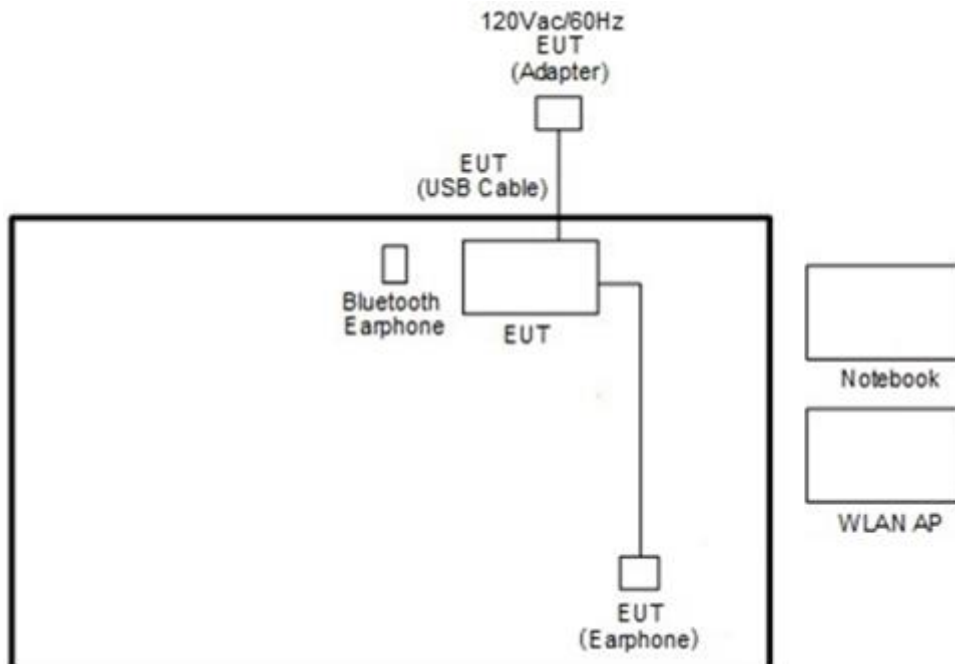
Test Cases	
AC Conducted Emission	Mode 1 :Bluetooth Link + WLAN (2.4GHz) Link + Earphone + Battery + USB Cable (Charging from Adapter)

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emissions>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony	SBH20	PY7-RD0010	N/A	N/A
3.	Notebook	DELL	P20G	FCC DoC/ Contains FCC ID: QDS-BRCM1051	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

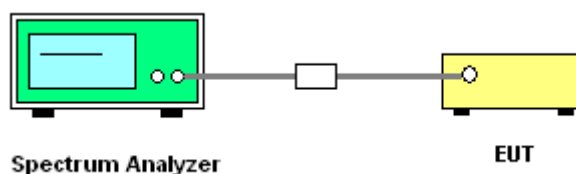
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v05.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

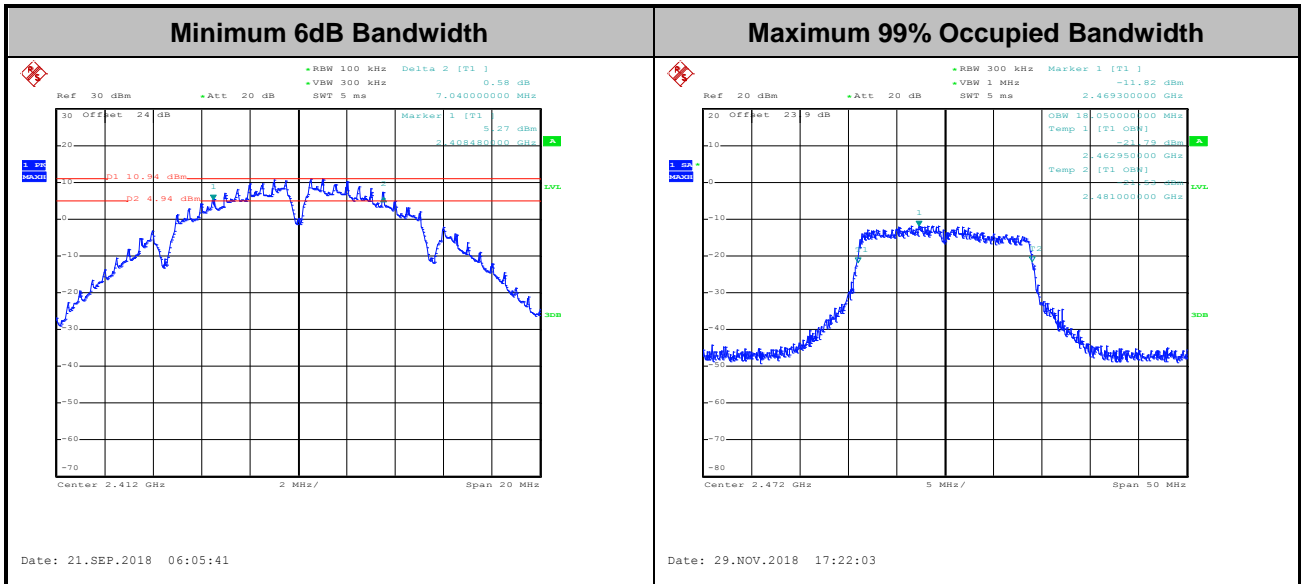
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

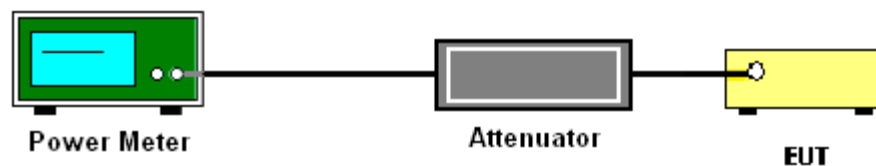
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

1. For Peak Power, the testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v05 section 9.1.3 PKPM1 Peak power meter method.
2. For Average Power, the testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v05 section 9.2.3.1 Method AVGPM.
3. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

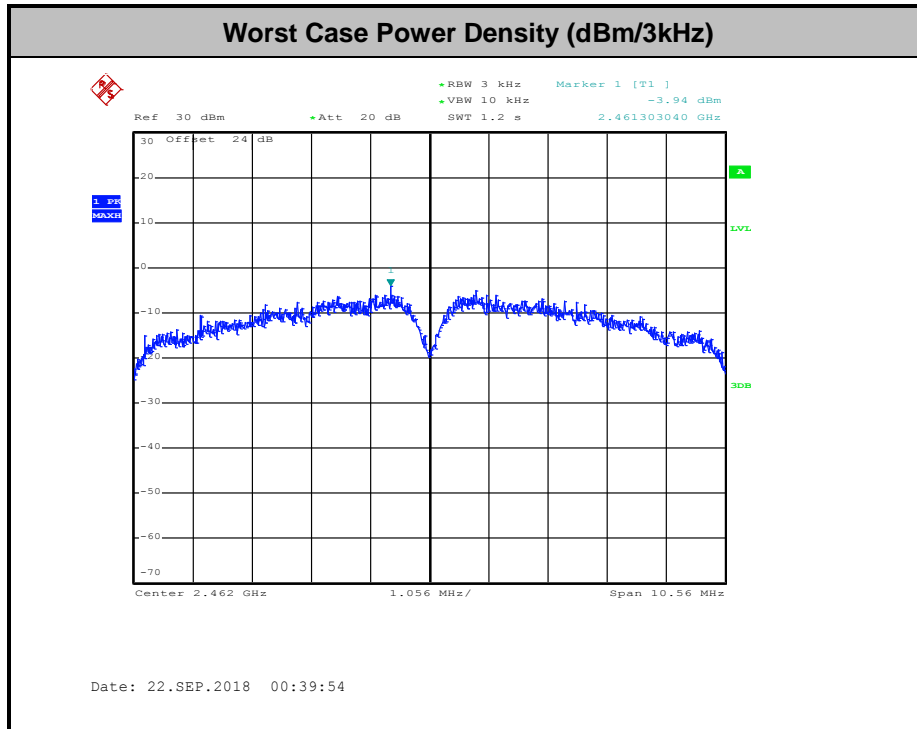
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

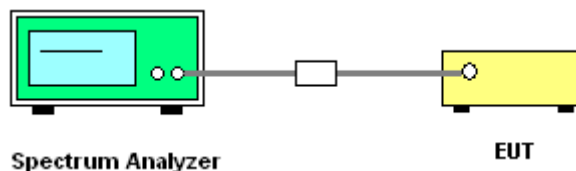
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



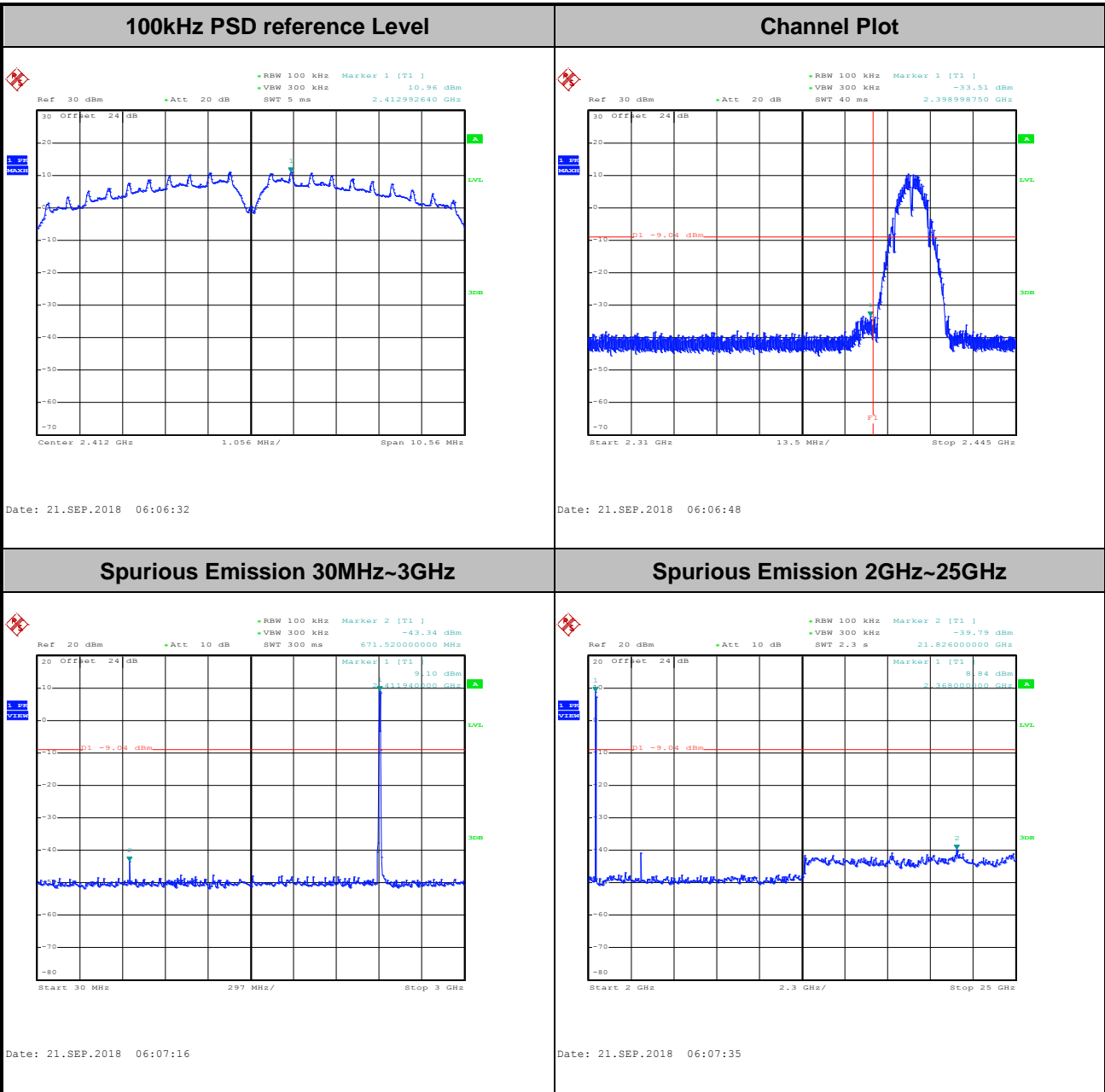


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer : Luffy Lin and Aking Chang	Temperature :	21~25°C
	Relative Humidity :	51~54%

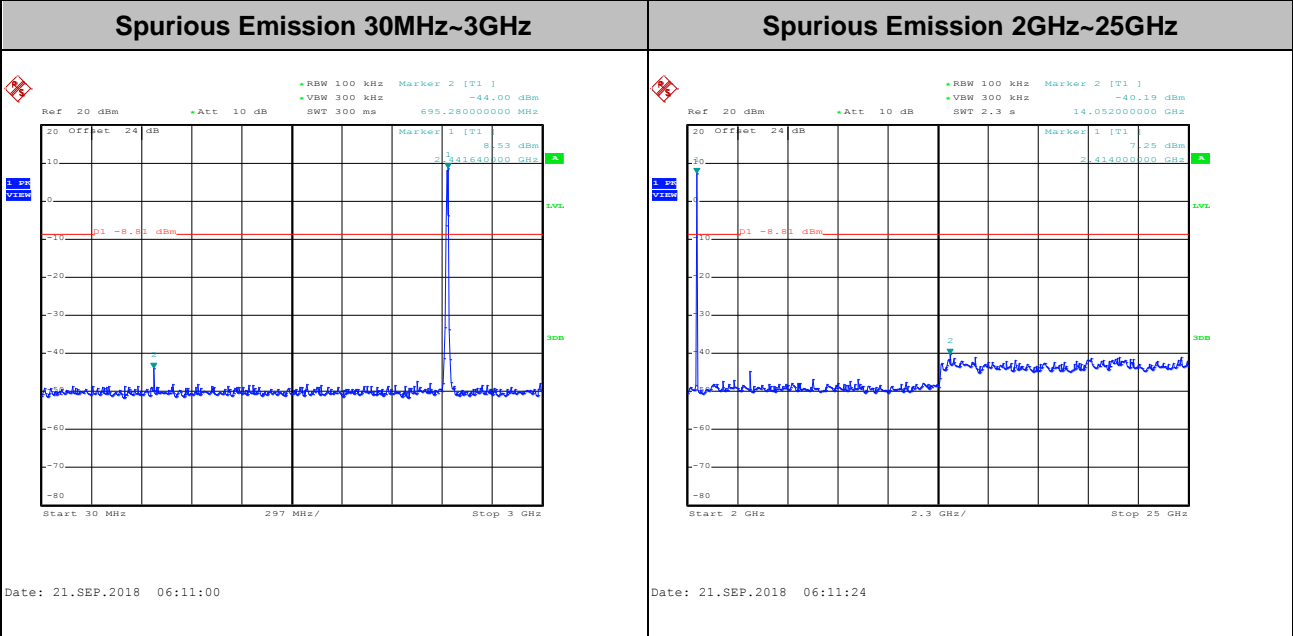
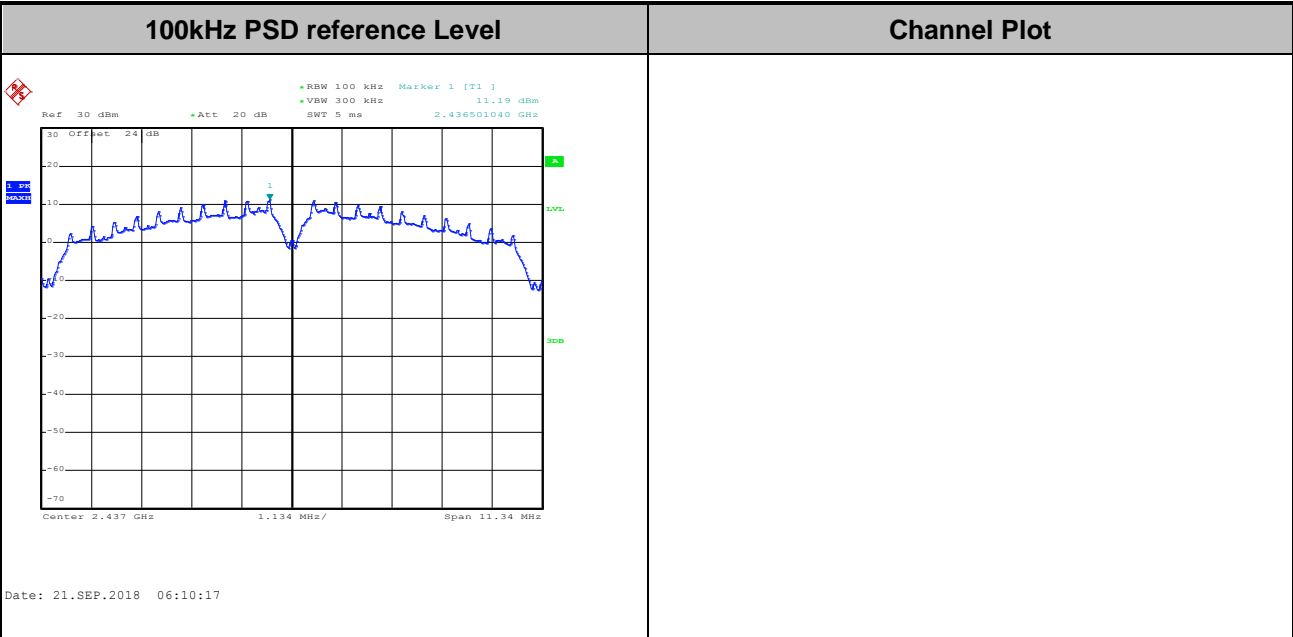
Number of TX = 1, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01
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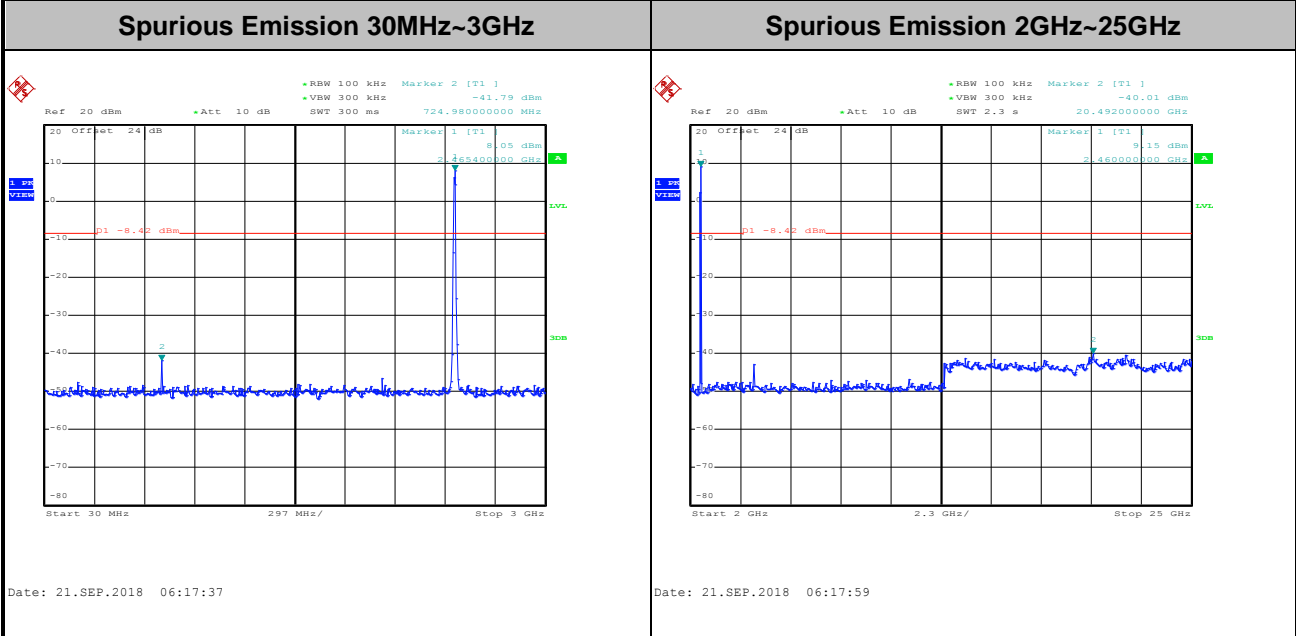
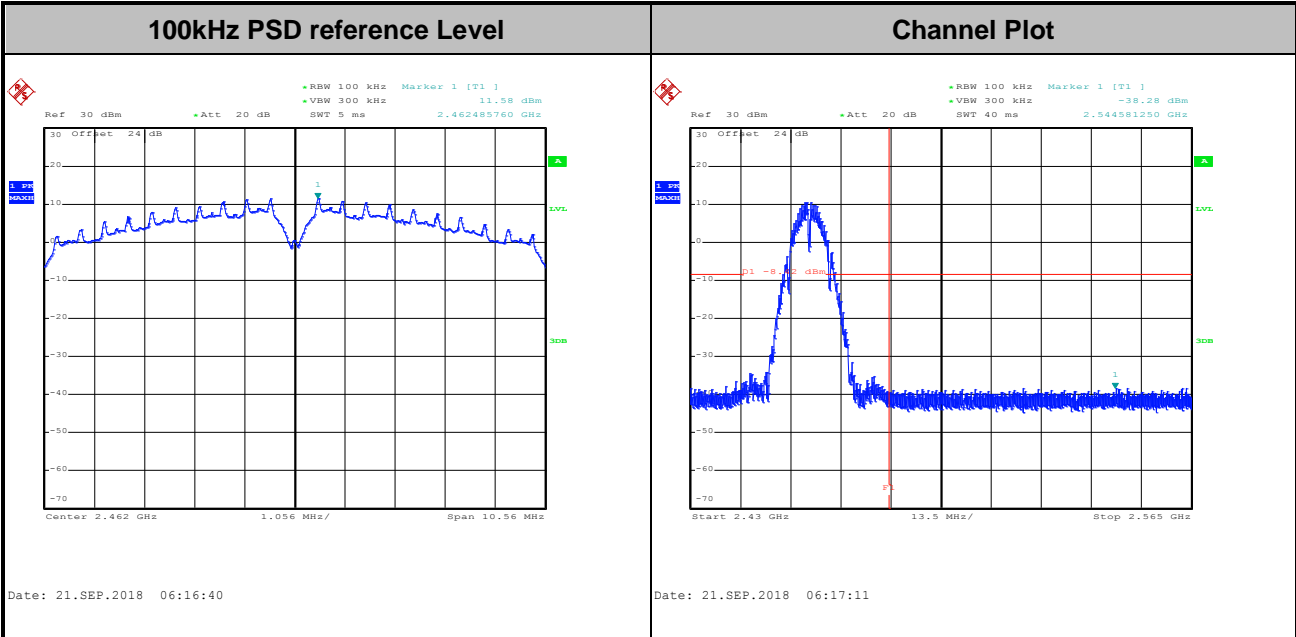


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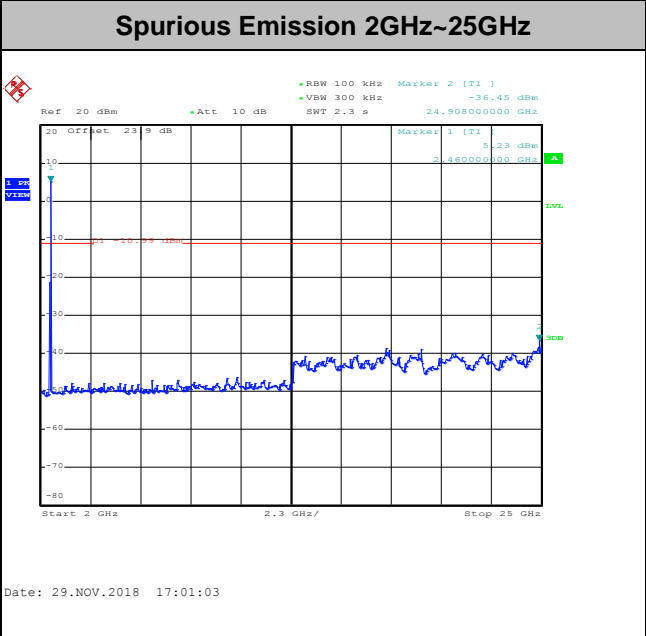
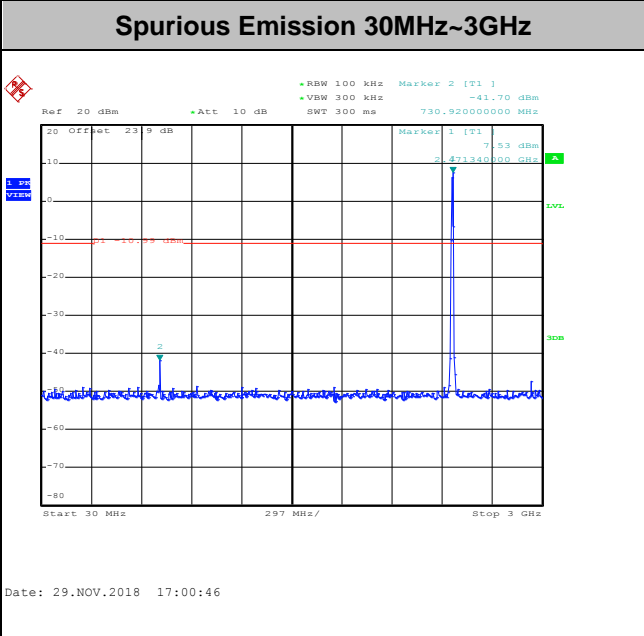
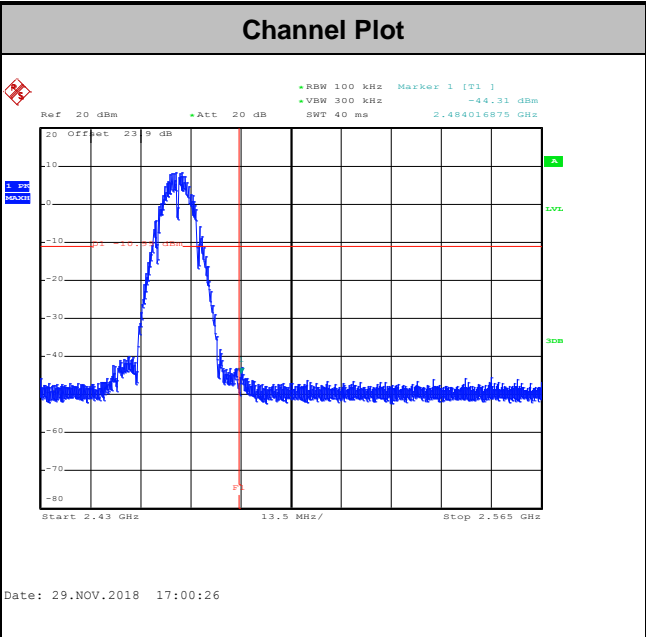
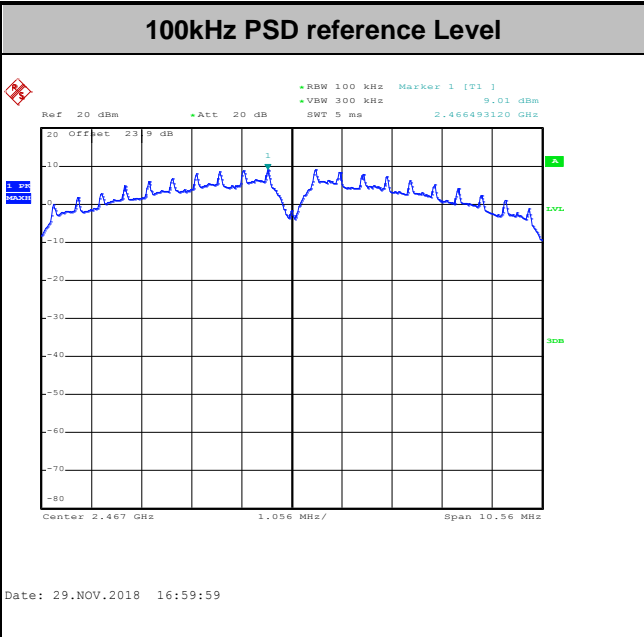


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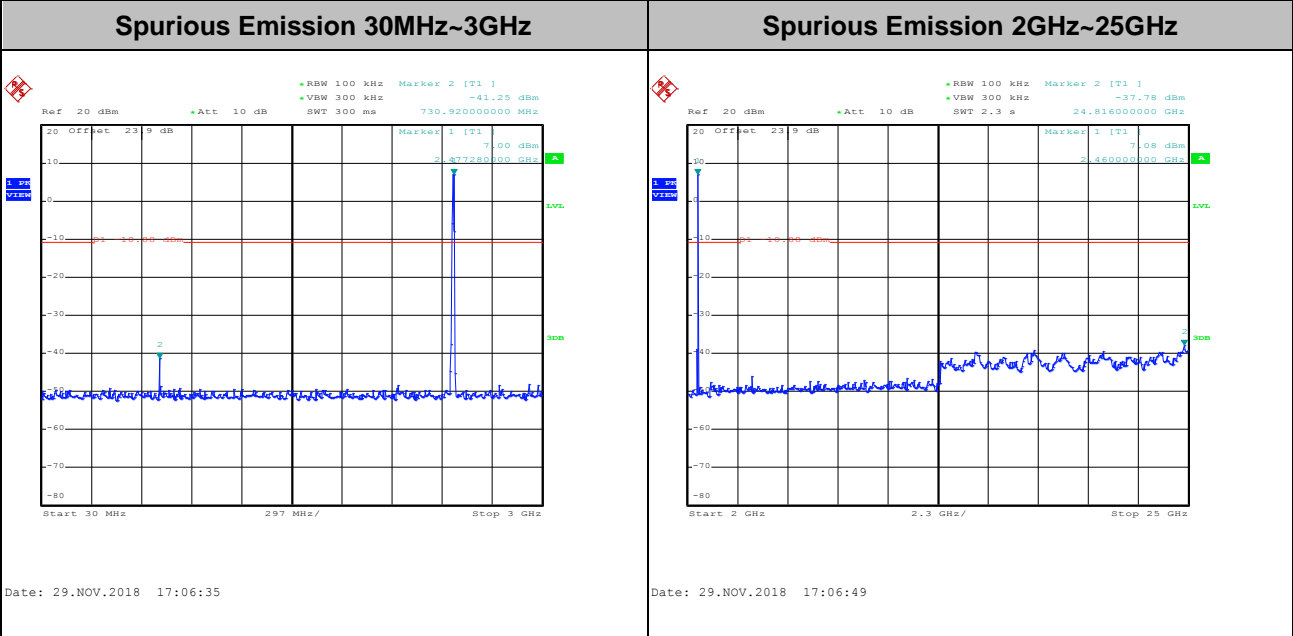
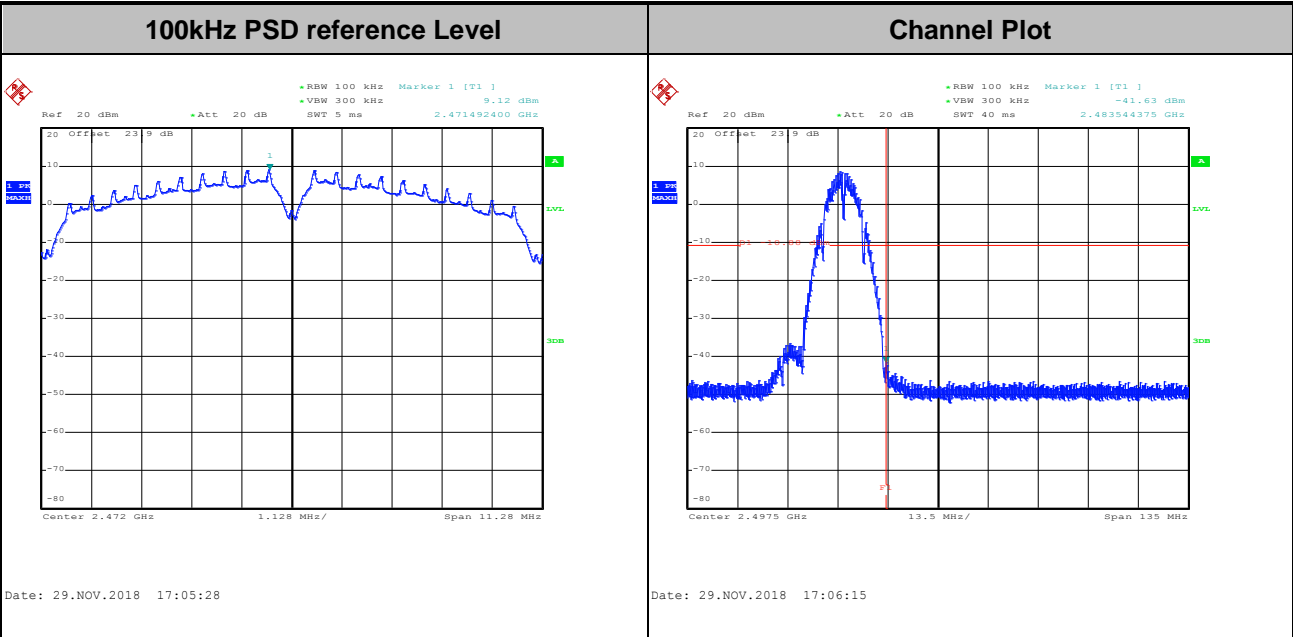


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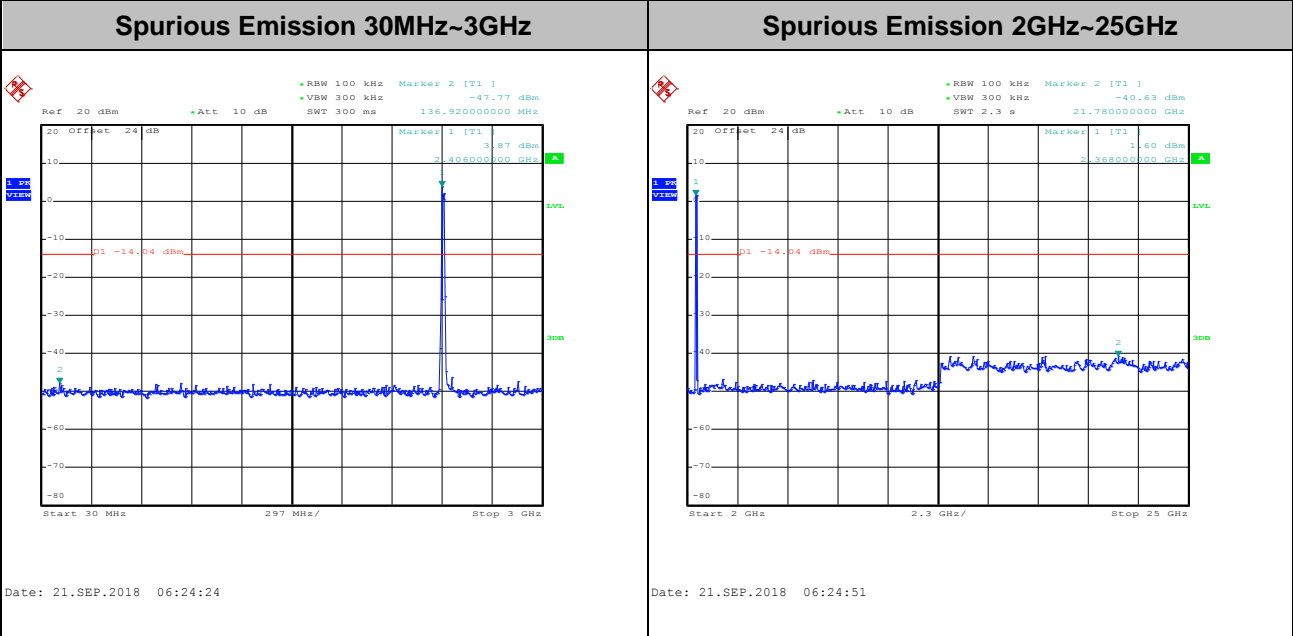
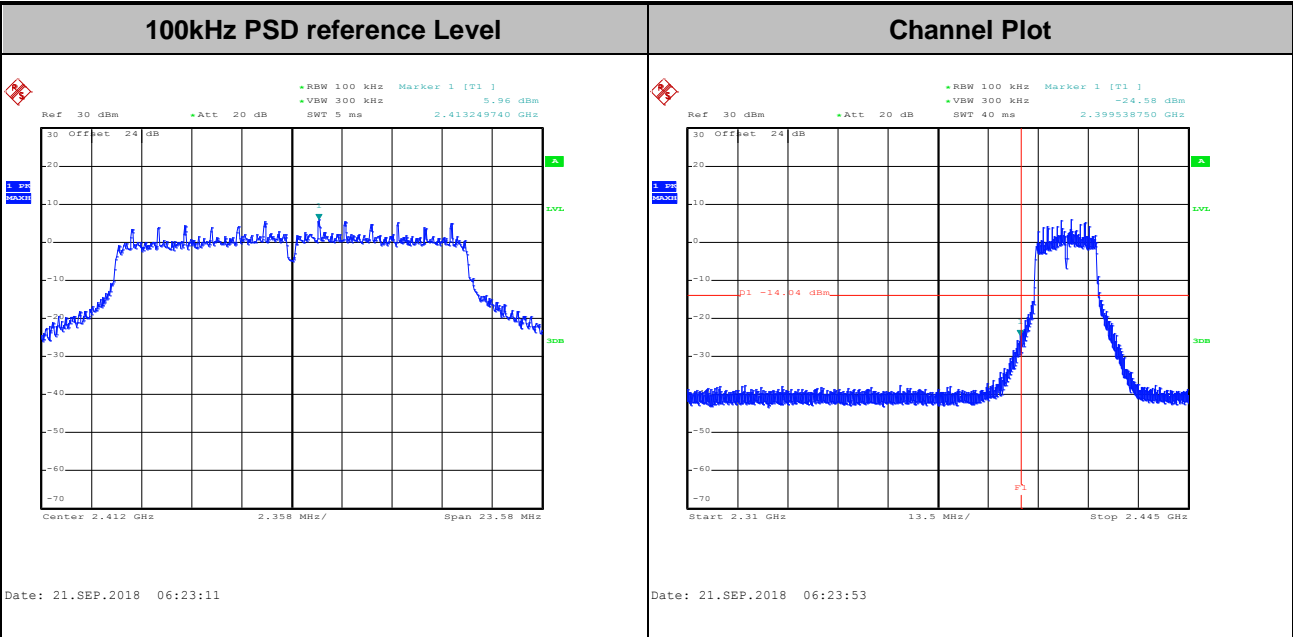


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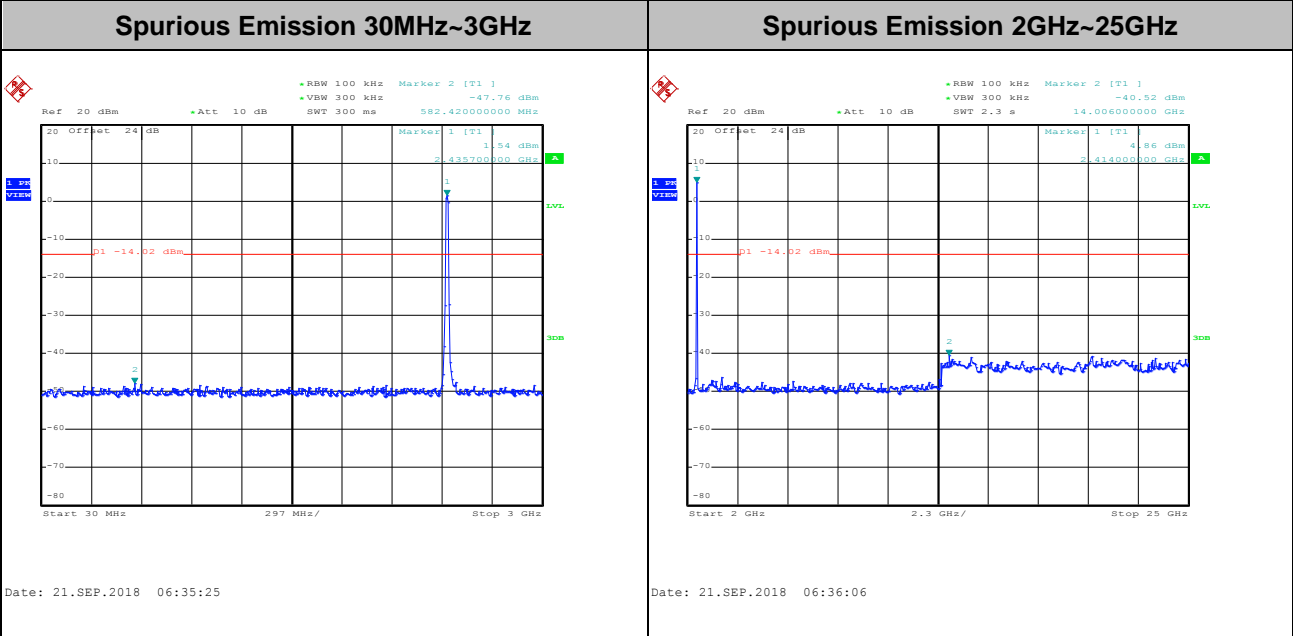
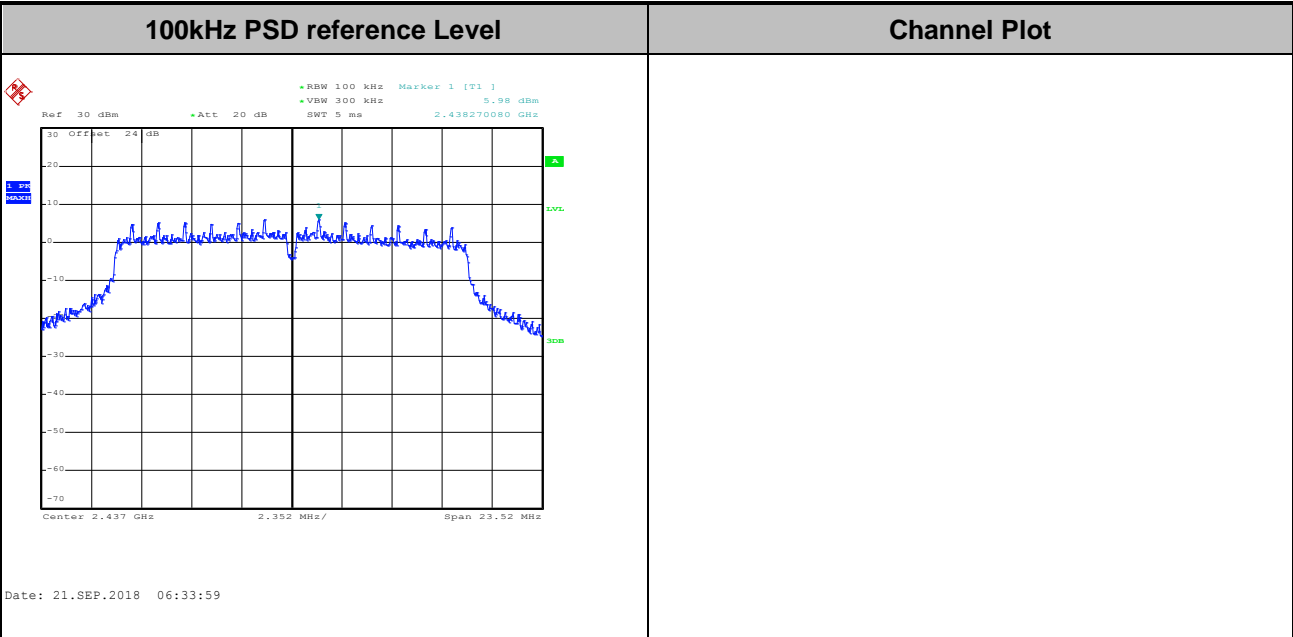


Test Mode :	802.11g	Test Channel :	01
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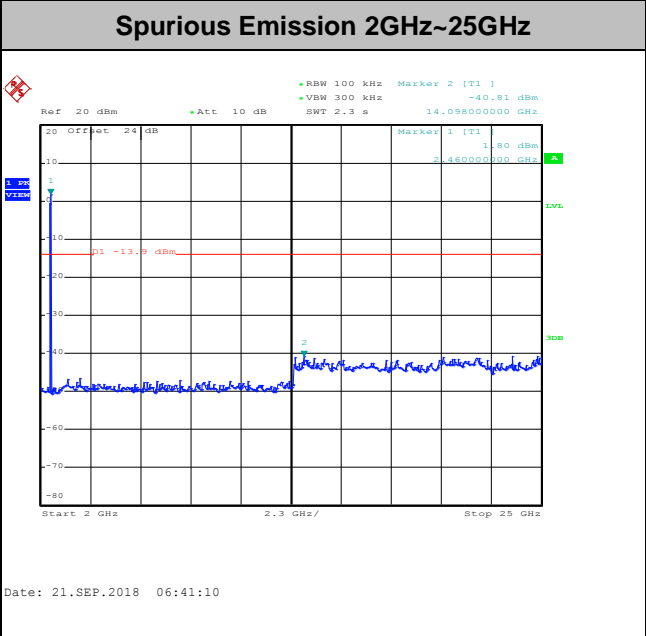
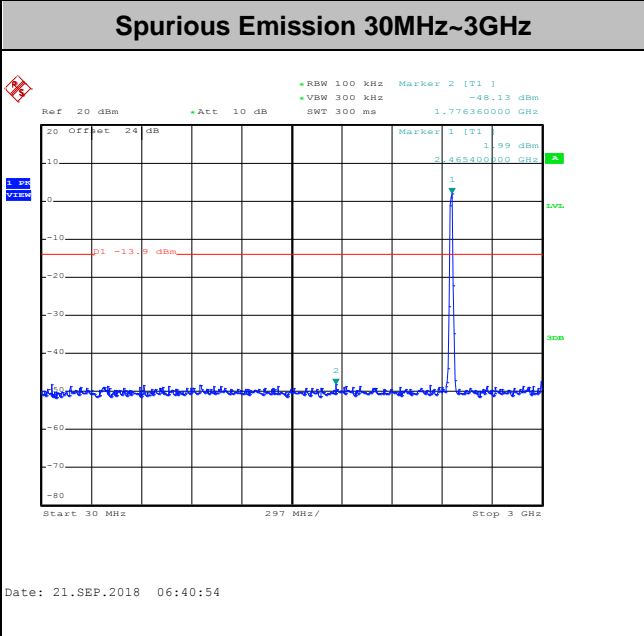
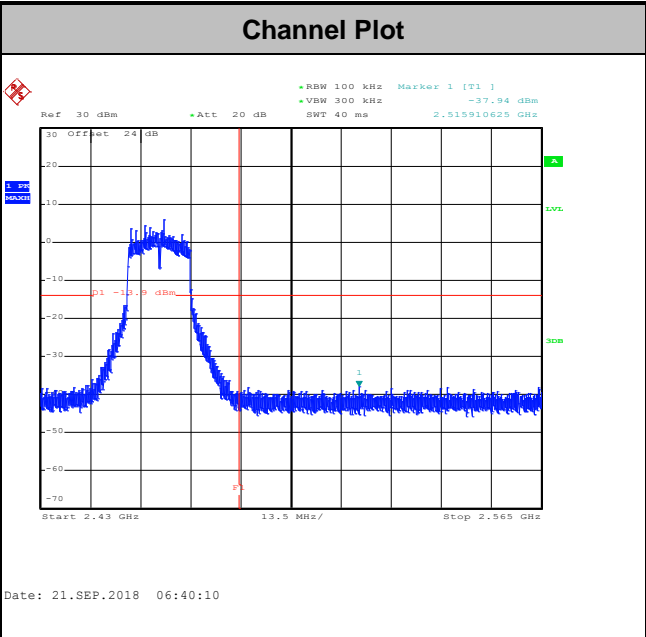
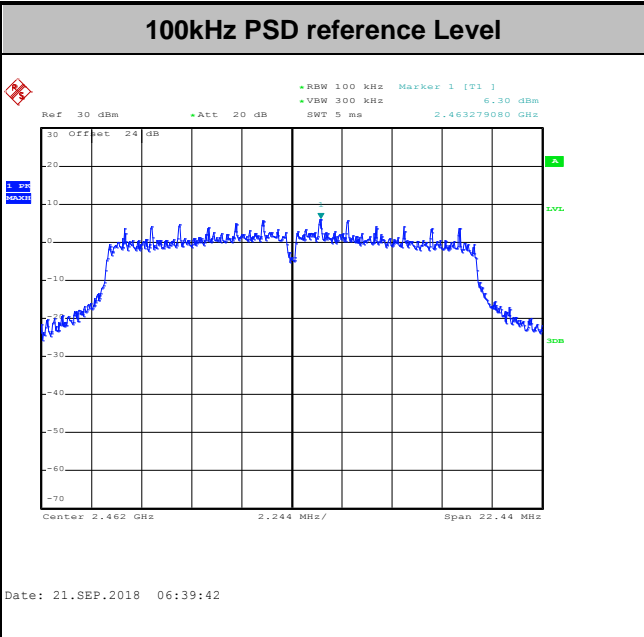


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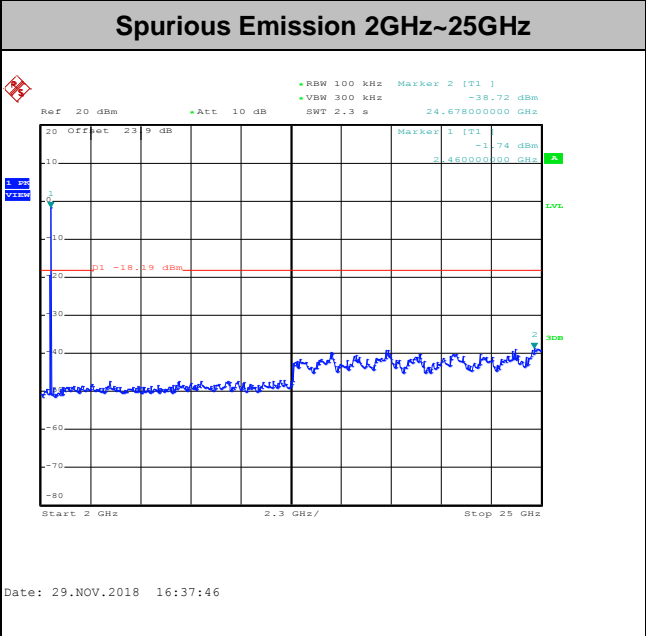
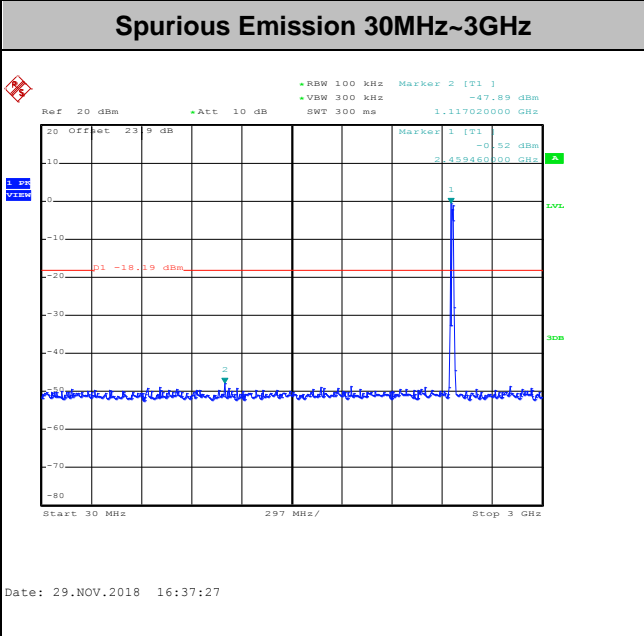
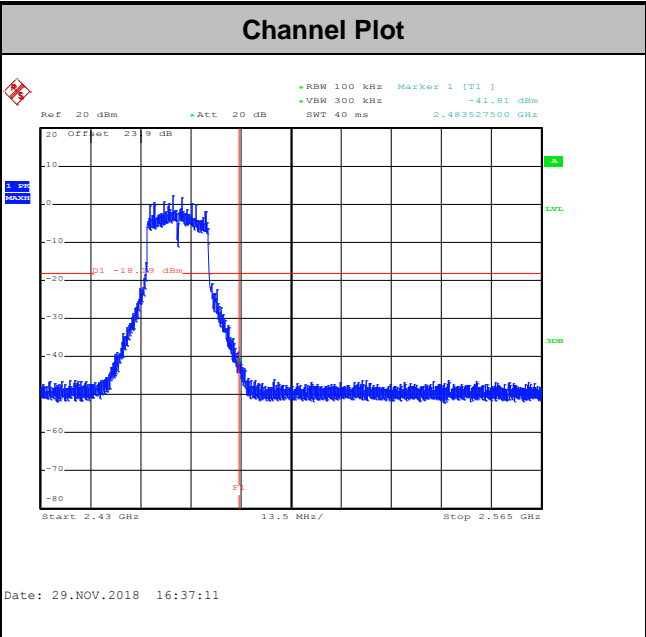
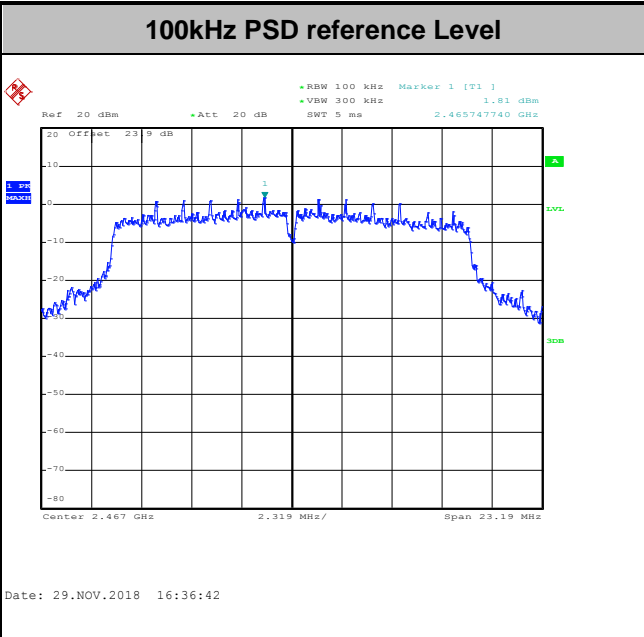


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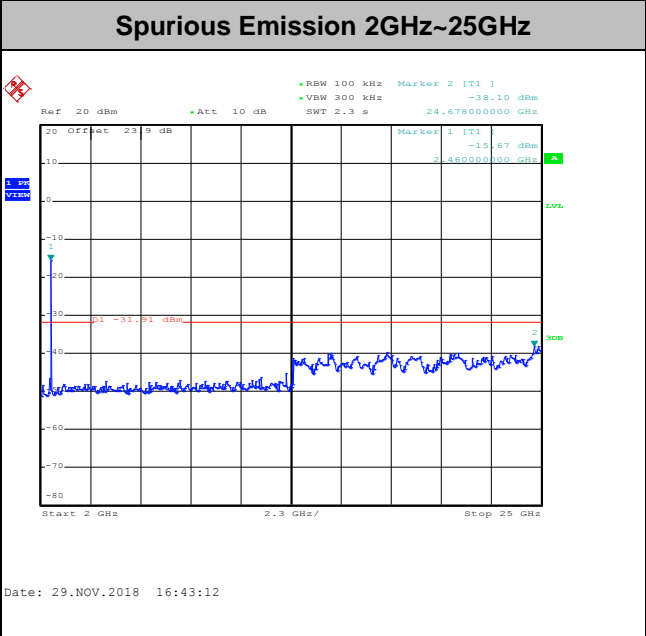
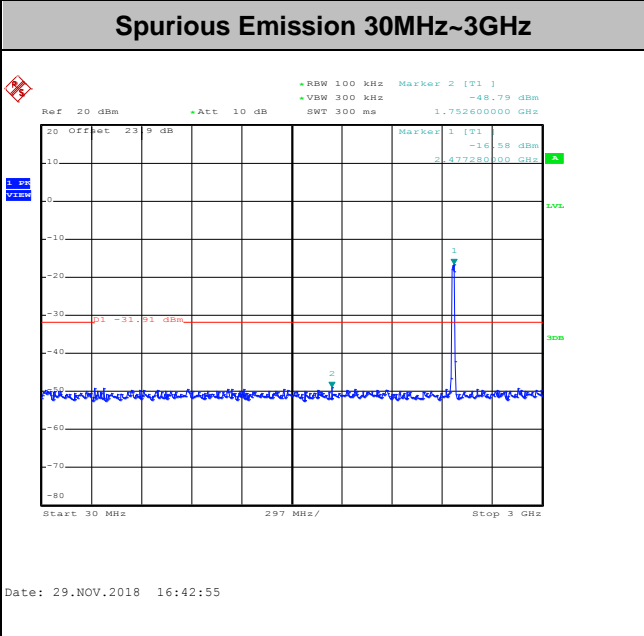
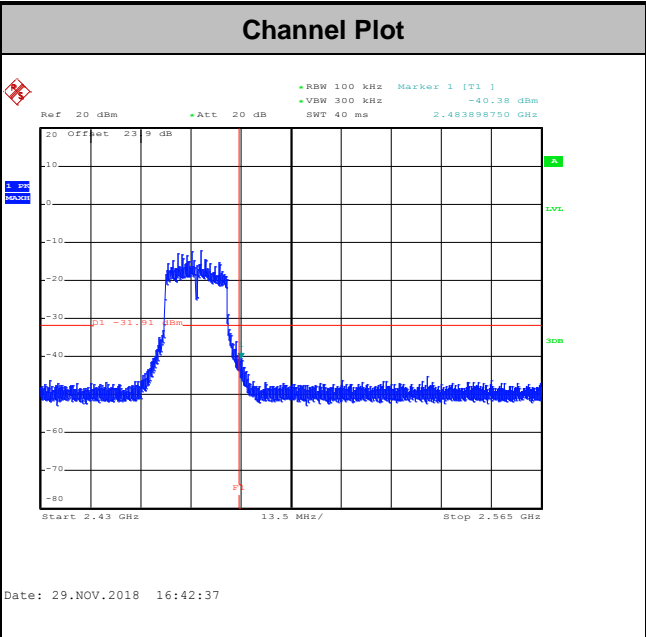
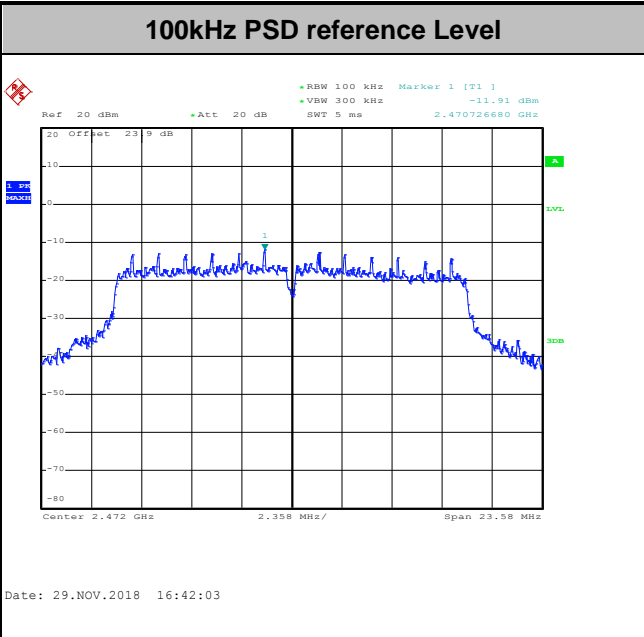


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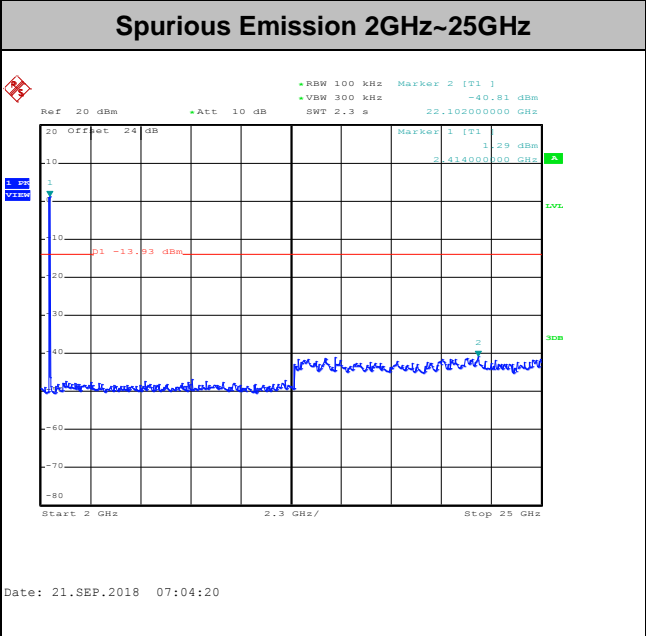
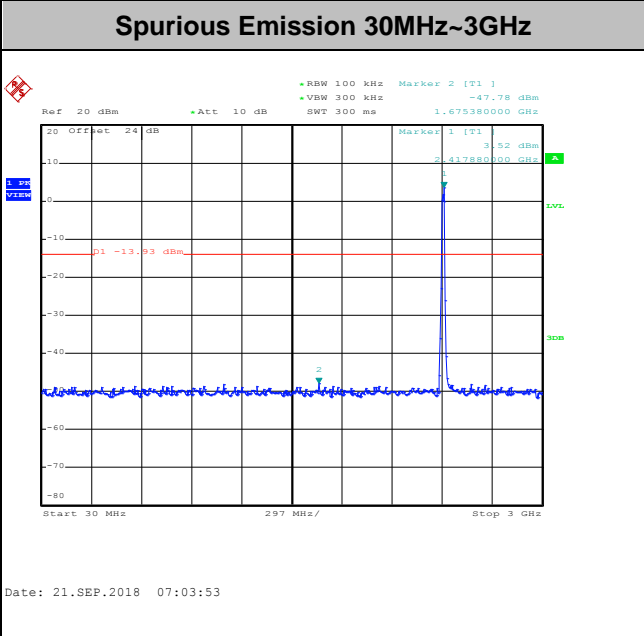
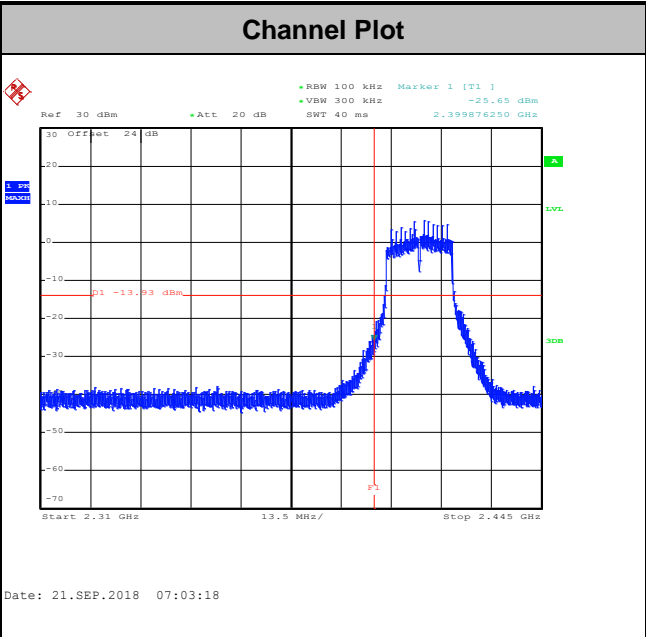
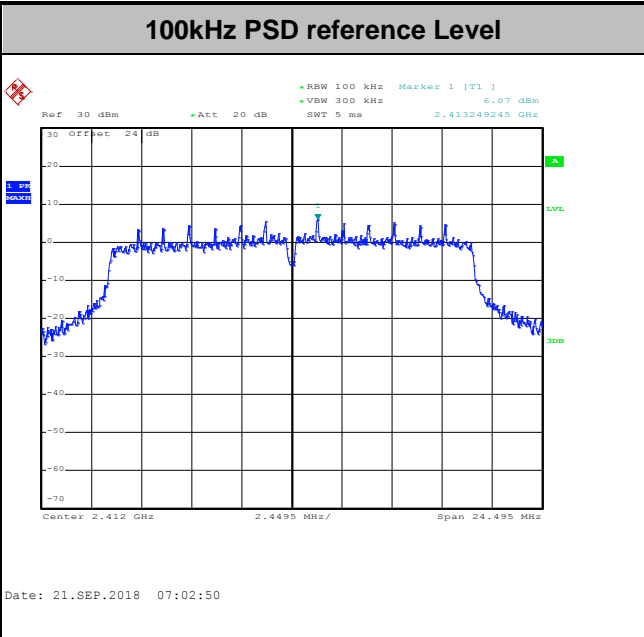


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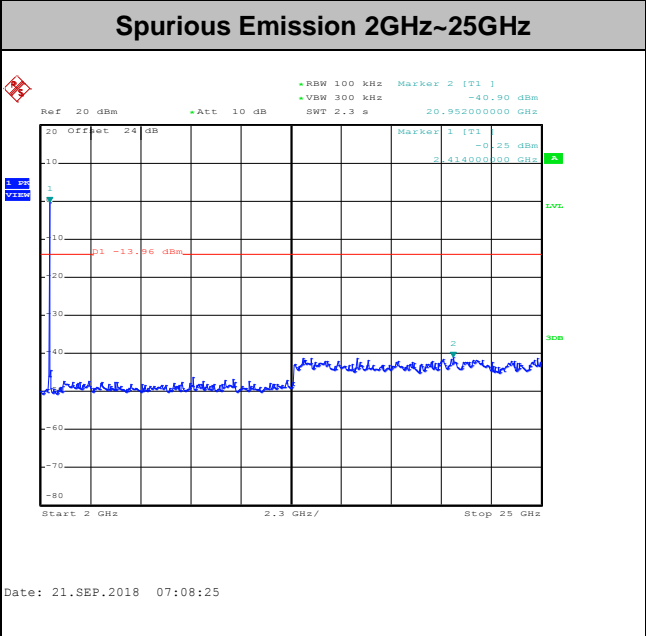
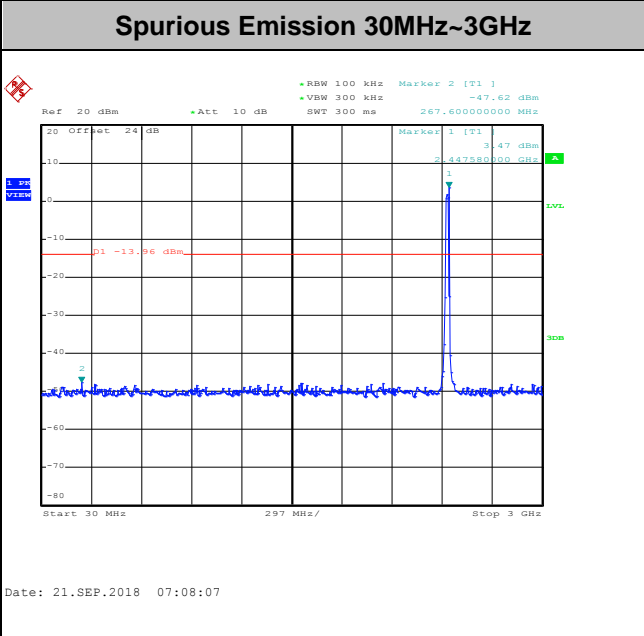
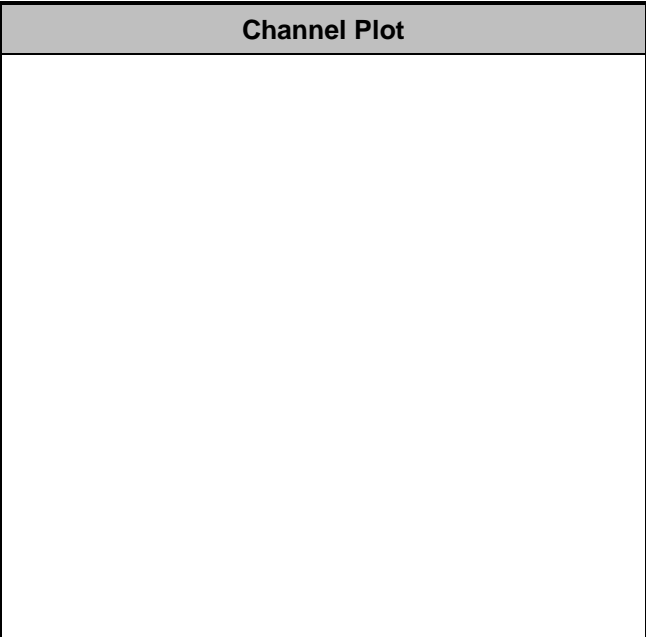
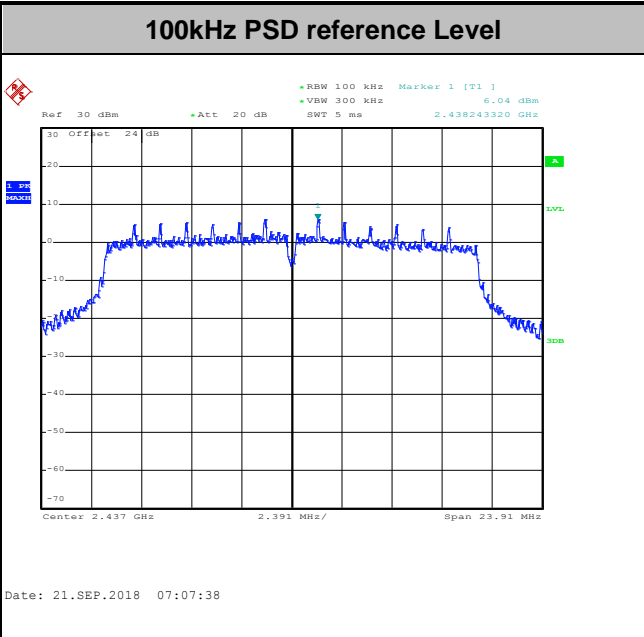


Test Mode :	802.11n HT20	Test Channel :	01
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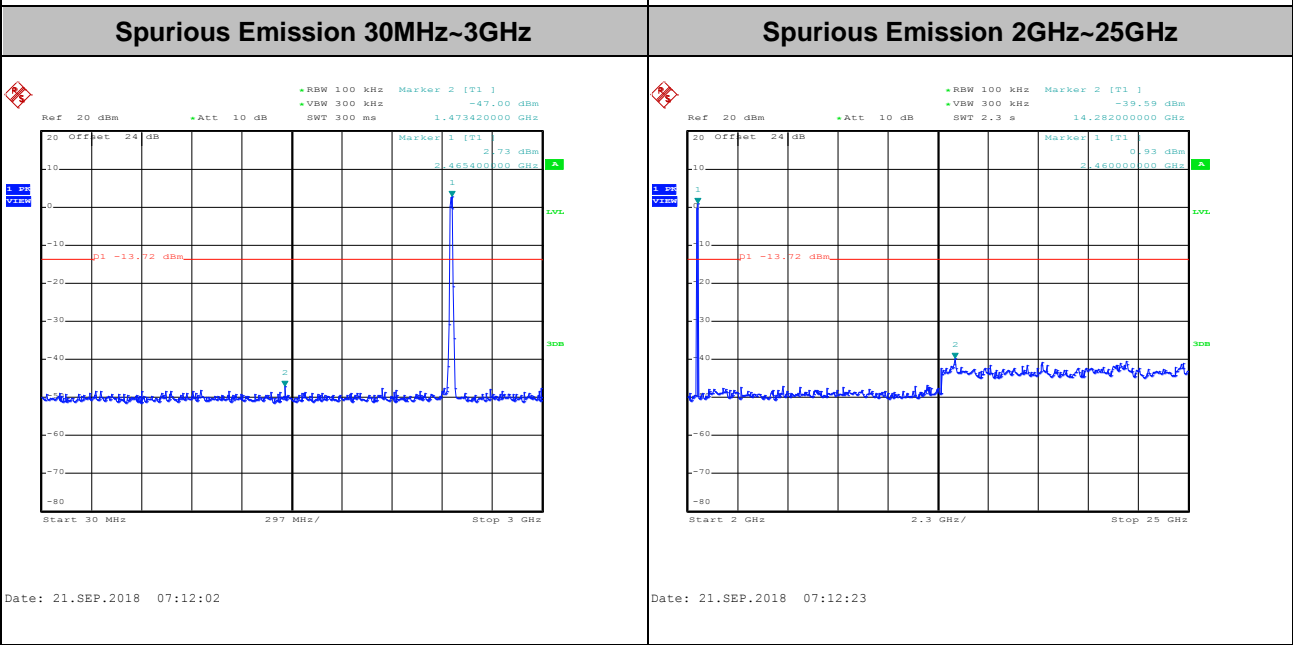
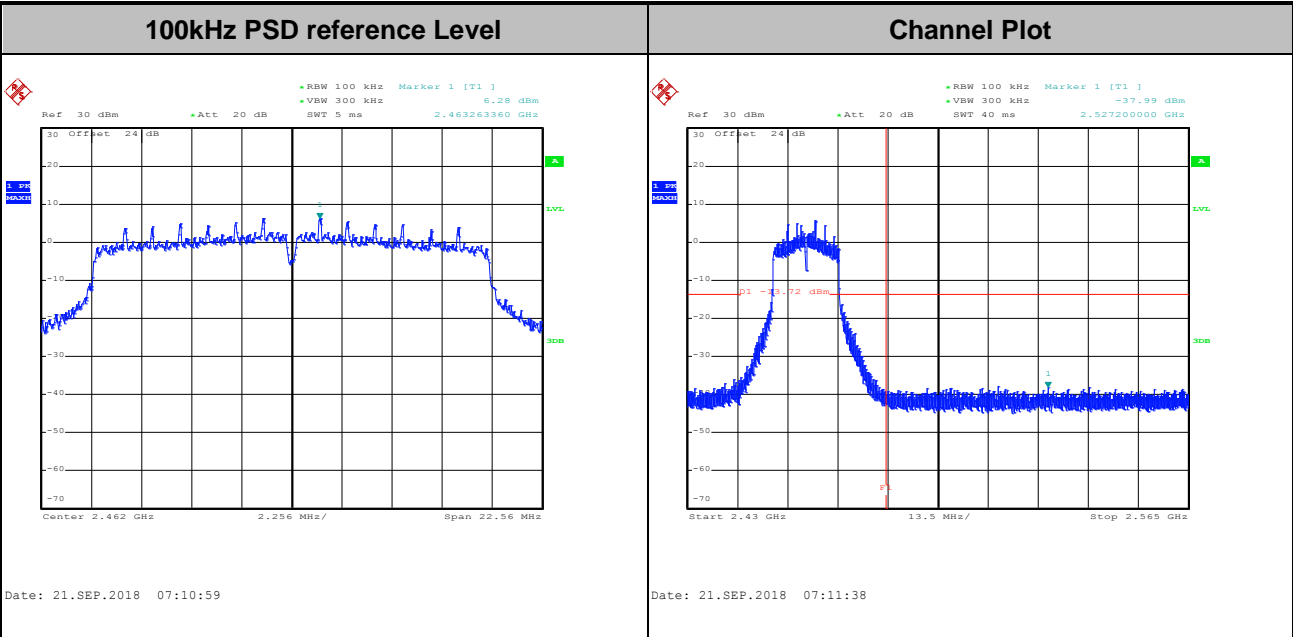


Test Mode : 802.11n HT20 Test Channel : 06



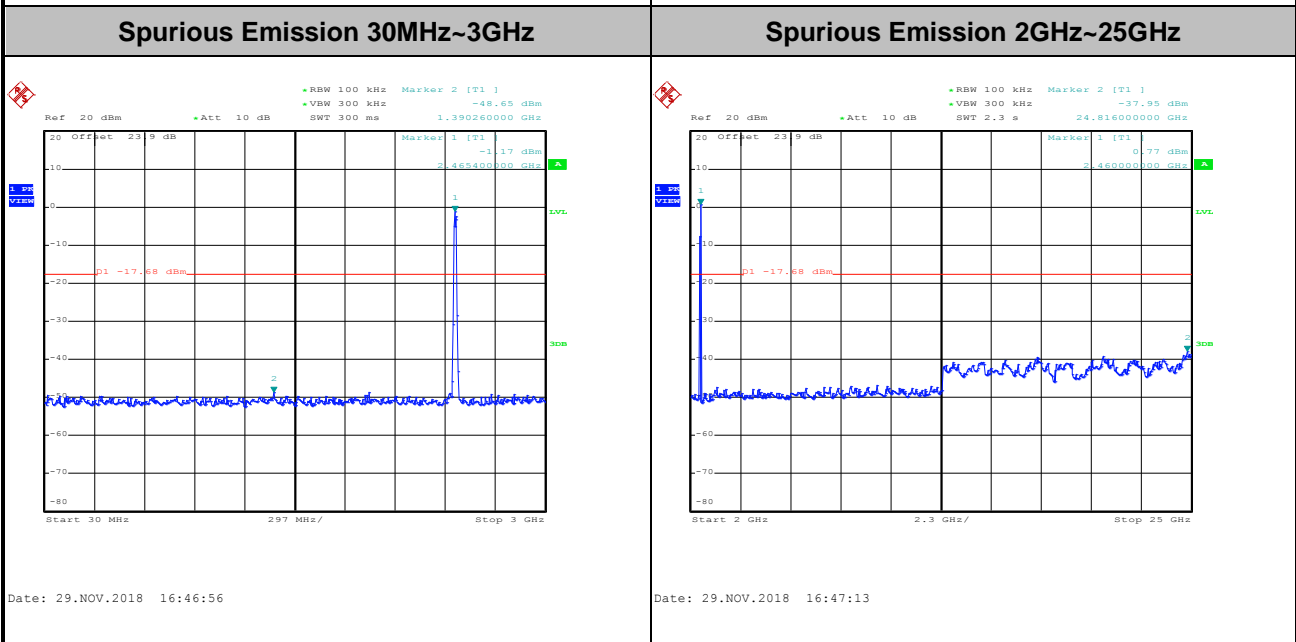
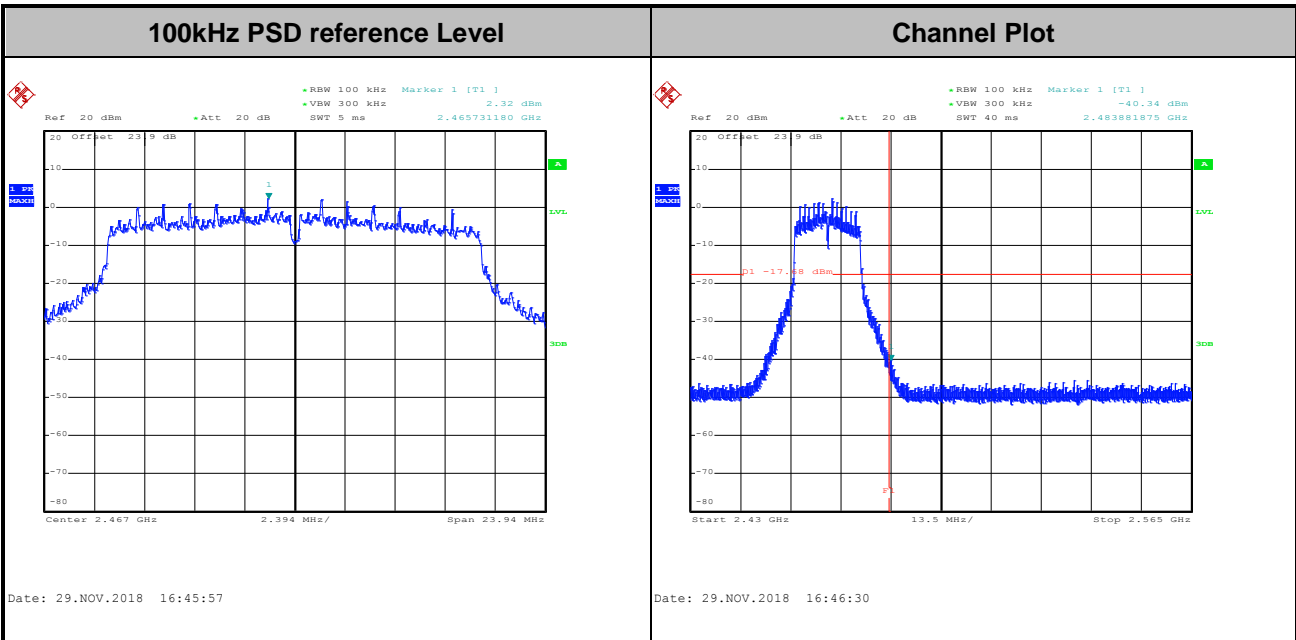


Test Mode :	802.11n HT20	Test Channel :	11
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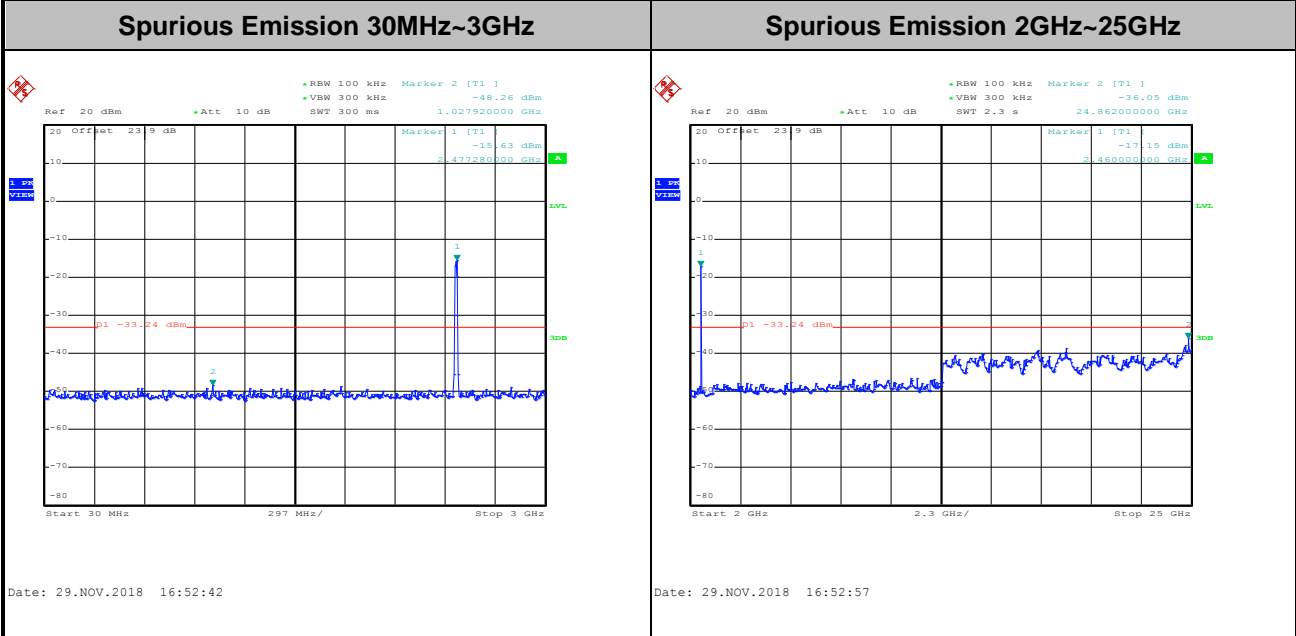
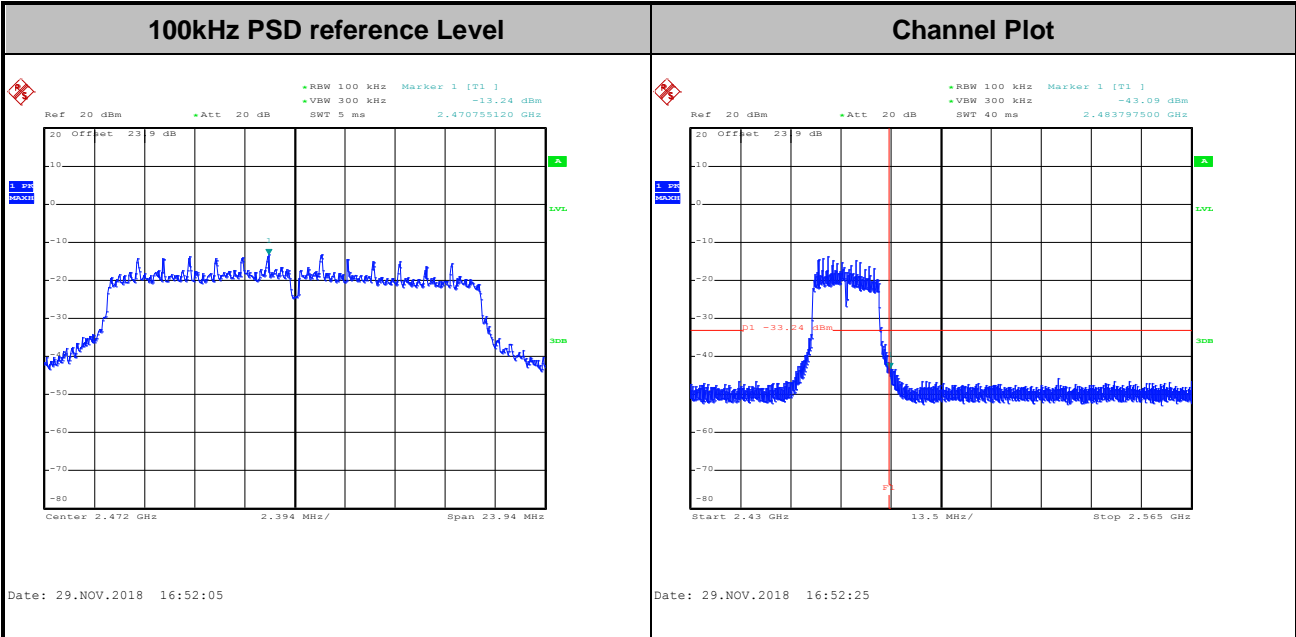


Test Mode :	802.11n HT20	Test Channel :	12
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Test Mode :	802.11n HT20	Test Channel :	13
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3.5 Radiated Band Edges and Spurious Emission Measurement

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.

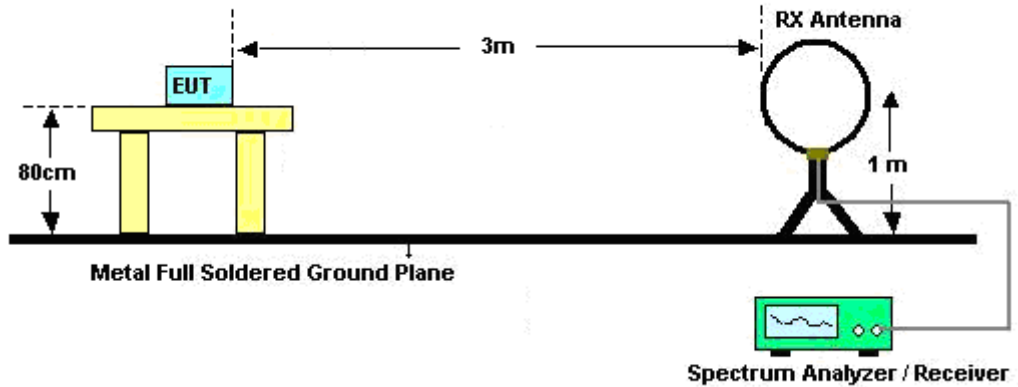


3.5.3 Test Procedures

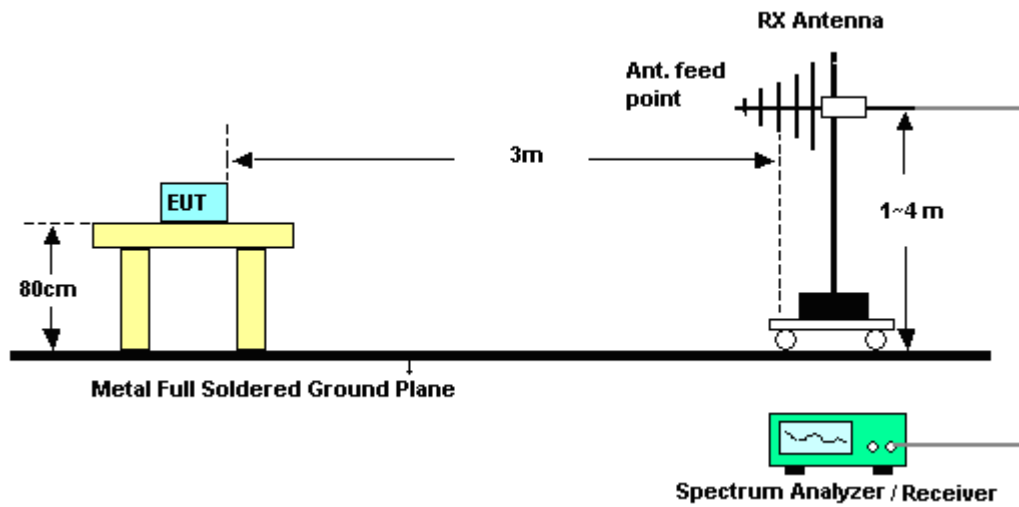
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test 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

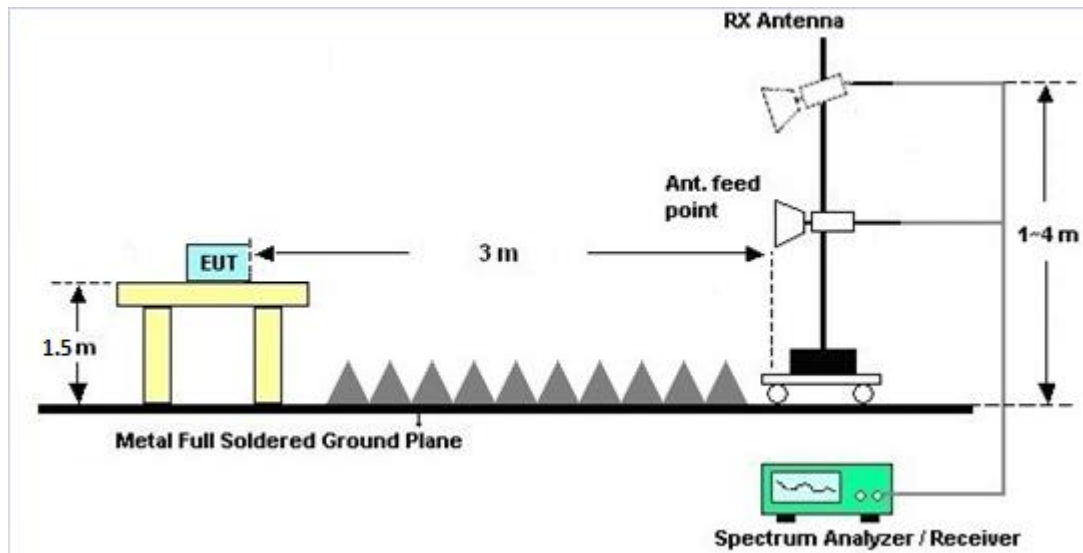
For radiated emissions below 30MHz



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 (dBµV)	
	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.

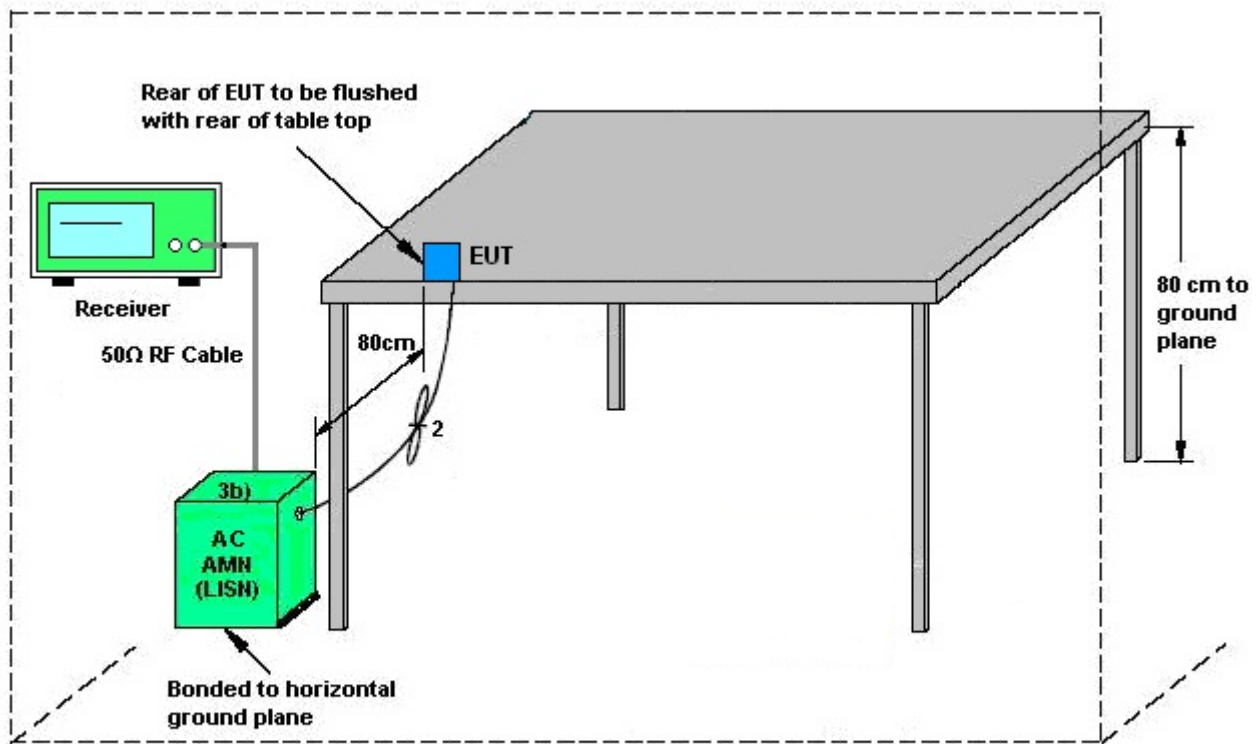
3.6.2 Measuring Instruments

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



AMN = Artificial mains network (LISH)
 AE = Associated equipment
 EUT = Equipment under test
 ISN = Impedance stabilization network

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

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 06, 2018	Sep. 14, 2018~ Sep. 22, 2018	Mar. 05, 2019	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 26, 2017	Sep. 14, 2018~ Sep. 22, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Jul. 25, 2018	Sep. 14, 2018~ Sep. 22, 2018	Jul. 24, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 26, 2017	Sep. 14, 2018~ Sep. 22, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	117995	300MHz~40GHz	Jul. 25, 2018	Sep. 14, 2018~ Sep. 22, 2018	Jul. 24, 2019	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 07, 2017	Sep. 14, 2018~ Sep. 22, 2018	Nov. 06, 2018	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV30	103738	10Hz~30GHz	May 22, 2018	Sep. 14, 2018~ Sep. 22, 2018	May 21, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC130048 4	N/A	Mar. 01, 2018	Sep. 14, 2018~ Sep. 22, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 20, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 08, 2017	Nov. 20, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 06, 2018	Nov. 20, 2018	Mar. 05, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Nov. 20, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 20, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Nov. 20, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Nov. 20, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Nov. 22, 2018~ Nov. 24, 2018	Jul. 15, 2019	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Jan. 16, 2018	Nov. 22, 2018~ Nov. 24, 2018	Jan. 15, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6- 06	35414&AT- N0602	30MHz~1GHz	Oct. 13, 2018	Nov. 22, 2018~ Nov. 24, 2018	Oct. 12, 2019	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 6	1GHz ~ 18GHz	Oct. 30, 2018	Nov. 22, 2018~ Nov. 24, 2018	Oct. 29, 2019	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 05, 2018	Nov. 22, 2018~ Nov. 24, 2018	Nov 04, 2019	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 22, 2018	Nov. 22, 2018~ Nov. 24, 2018	Nov. 21, 2019	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY532700 80	1GHz~26.5GHz	Nov. 14, 2018	Nov. 22, 2018~ Nov. 24, 2018	Nov. 13, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 86	10Hz ~ 44GHz	Oct. 19, 2018	Nov. 22, 2018~ Nov. 24, 2018	Oct. 18, 2019	Radiation (03CH11-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 22, 2018~ Nov. 24, 2018	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500 -B	N/A	1~4m	N/A	Nov. 22, 2018~ Nov. 24, 2018	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Nov. 22, 2018~ Nov. 24, 2018	N/A	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55- 303K	17100018 00054001	1GHz~18GHz	Apr. 16, 2018	Nov. 22, 2018~ Nov. 24, 2018	Apr. 15, 2019	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Nov. 27, 2017	Nov. 22, 2018~ Nov. 24, 2018	Nov. 26, 2018	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-00104 2	N/A	N/A	Nov. 22, 2018~ Nov. 24, 2018	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz-30MHz	Mar. 14, 2018	Nov. 22, 2018~ Nov. 24, 2018	Mar. 13, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 14, 2018	Nov. 22, 2018~ Nov. 24, 2018	Mar. 13, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	30M-18G	Mar. 14, 2018	Nov. 22, 2018~ Nov. 24, 2018	Mar. 13, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 14, 2018	Nov. 22, 2018~ Nov. 24, 2018	Mar. 13, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000- 1530-8000-4 0SS	SN11	1G Low Pass	Sep. 16, 2018	Nov. 22, 2018~ Nov. 24, 2018	Sep. 15, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-27 00-3000-180 00-60SS	SN3	2.7G High Pass	Sep. 16, 2018	Nov. 22, 2018~ Nov. 24, 2018	Sep. 15, 2019	Radiation (03CH11-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.20
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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% ($U = 2Uc(y)$)	5.50
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Allen Lin / Luffy Lin	Temperature:	21~25	°C
Test Date:	2018/9/14 ~ 2018/09/22	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
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	1	1	2412	12.75	-	7.04	-	0.50	Pass
11b	1Mbps	1	6	2437	12.90	-	7.56	-	0.50	Pass
11b	1Mbps	1	11	2462	12.55	-	7.04	-	0.50	Pass
11b	1Mbps	1	12	2467	12.35	-	7.04	-	0.50	Pass
11b	1Mbps	1	13	2472	12.75	-	7.52	-	0.50	Pass
11g	6Mbps	1	1	2412	16.85	-	15.72	-	0.50	Pass
11g	6Mbps	1	6	2437	16.90	-	15.68	-	0.50	Pass
11g	6Mbps	1	11	2462	16.70	-	14.96	-	0.50	Pass
11g	6Mbps	1	12	2467	16.70	-	15.46	-	0.50	Pass
11g	6Mbps	1	13	2472	16.85	-	15.72	-	0.50	Pass
HT20	MCS0	1	1	2412	18.00	-	16.33	-	0.50	Pass
HT20	MCS0	1	6	2437	18.05	-	15.94	-	0.50	Pass
HT20	MCS0	1	11	2462	17.80	-	15.04	-	0.50	Pass
HT20	MCS0	1	12	2467	17.85	-	15.96	-	0.50	Pass
HT20	MCS0	1	13	2472	18.05	-	15.96	-	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	19.59	-	-	30.00	-	-3.20	-	16.39	-	36.00	-	Pass
11b	1Mbps	1	6	2437	19.51	-	-	30.00	-	-3.20	-	16.31	-	36.00	-	Pass
11b	1Mbps	1	11	2462	19.84	-	-	30.00	-	-3.20	-	16.64	-	36.00	-	Pass
11b	1Mbps	1	12	2467	19.50	-	-	30.00	-	-3.20	-	16.30	-	36.00	-	Pass
11b	1Mbps	1	13	2472	19.64	-	-	30.00	-	-3.20	-	16.44	-	36.00	-	Pass
11g	6Mbps	1	1	2412	20.50	-	-	30.00	-	-3.20	-	17.30	-	36.00	-	Pass
11g	6Mbps	1	6	2437	20.54	-	-	30.00	-	-3.20	-	17.34	-	36.00	-	Pass
11g	6Mbps	1	11	2462	20.88	-	-	30.00	-	-3.20	-	17.68	-	36.00	-	Pass
11g	6Mbps	1	12	2467	16.59	-	-	30.00	-	-3.20	-	13.39	-	36.00	-	Pass
11g	6Mbps	1	13	2472	3.93	-	-	30.00	-	-3.20	-	0.73	-	36.00	-	Pass
HT20	MCS0	1	1	2412	20.50	-	-	30.00	-	-3.20	-	17.30	-	36.00	-	Pass
HT20	MCS0	1	6	2437	20.65	-	-	30.00	-	-3.20	-	17.45	-	36.00	-	Pass
HT20	MCS0	1	11	2462	20.78	-	-	30.00	-	-3.20	-	17.58	-	36.00	-	Pass
HT20	MCS0	1	12	2467	16.65	-	-	30.00	-	-3.20	-	13.45	-	36.00	-	Pass
HT20	MCS0	1	13	2472	2.00	-	-	30.00	-	-3.20	-	-1.20	-	36.00	-	Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	1	1	2412	0.04	-	16.77	-	-
11b	1Mbps	1	6	2437	0.04	-	16.72	-	
11b	1Mbps	1	11	2462	0.04	-	16.79	-	
11b	1Mbps	1	12	2467	0.04	-	16.67	-	
11b	1Mbps	1	13	2472	0.04	-	16.78	-	
11g	6Mbps	1	1	2412	0.23	-	15.79	-	
11g	6Mbps	1	6	2437	0.23	-	15.91	-	
11g	6Mbps	1	11	2462	0.23	-	15.97	-	
11g	6Mbps	1	12	2467	0.23	-	11.79	-	
11g	6Mbps	1	13	2472	0.23	-	-3.12	-	
HT20	MCS0	1	1	2412	0.24	-	15.69	-	
HT20	MCS0	1	6	2437	0.24	-	15.78	-	
HT20	MCS0	1	11	2462	0.24	-	15.80	-	
HT20	MCS0	1	12	2467	0.24	-	11.65	-	
HT20	MCS0	1	13	2472	0.24	-	-4.78	-	

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
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	-5.40	-	-	-3.20	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-5.24	-	-	-3.20	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-3.94	-	-	-3.20	-	8.00	-	Pass
11b	1Mbps	1	12	2467	-4.80	-	-	-3.20	-	8.00	-	Pass
11b	1Mbps	1	13	2472	-4.82	-	-	-3.20	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-9.00	-	-	-3.20	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-8.37	-	-	-3.20	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-8.07	-	-	-3.20	-	8.00	-	Pass
11g	6Mbps	1	12	2467	-12.59	-	-	-3.20	-	8.00	-	Pass
11g	6Mbps	1	13	2472	-27.12	-	-	-3.20	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-9.42	-	-	-3.20	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-10.01	-	-	-3.20	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-8.42	-	-	-3.20	-	8.00	-	Pass
HT20	MCS0	1	12	2467	-14.30	-	-	-3.20	-	8.00	-	Pass
HT20	MCS0	1	13	2472	-29.02	-	-	-3.20	-	8.00	-	Pass

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



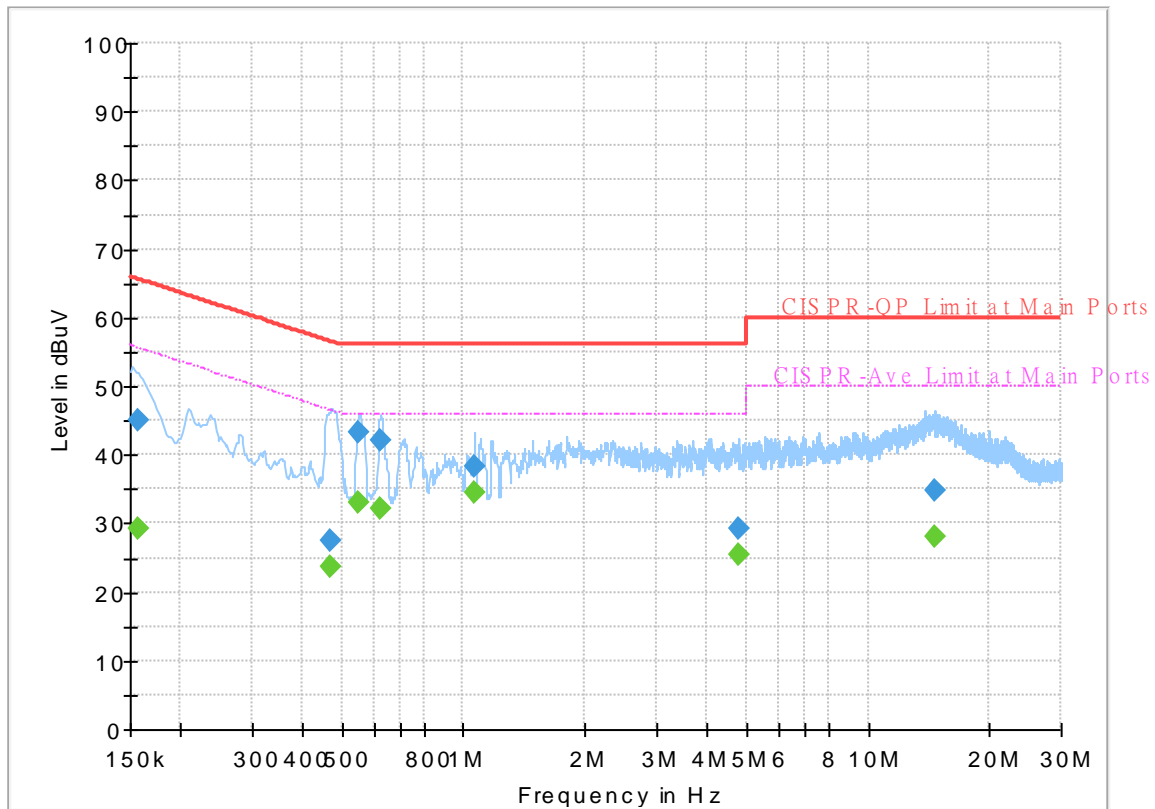
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	Temperature :	22~23°C
		Relative Humidity :	58~60%

EUT Information

Report NO : 882923-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



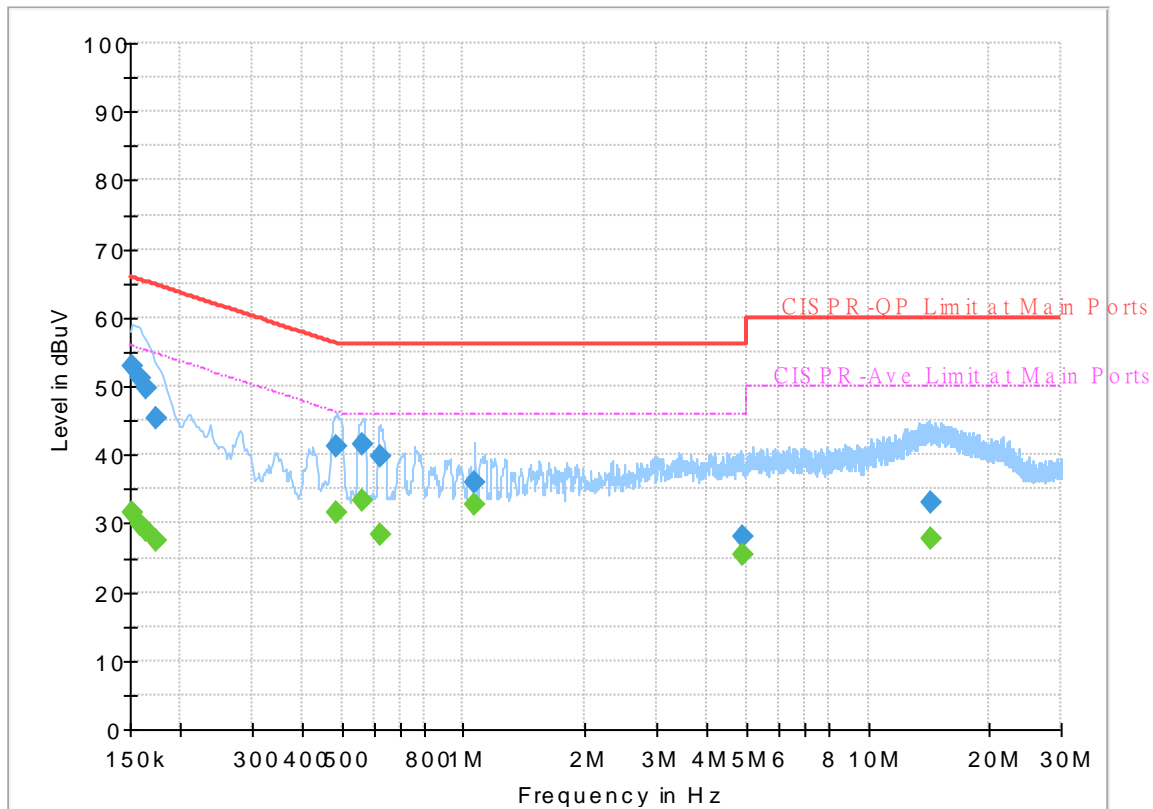
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	29.33	55.63	26.30	L1	OFF	19.5
0.156750	45.14	---	65.63	20.49	L1	OFF	19.5
0.469500	---	23.78	46.52	22.74	L1	OFF	19.5
0.469500	27.50	---	56.52	29.02	L1	OFF	19.5
0.552750	---	32.94	46.00	13.06	L1	OFF	19.5
0.552750	43.31	---	56.00	12.69	L1	OFF	19.5
0.622500	---	32.18	46.00	13.82	L1	OFF	19.6
0.622500	42.24	---	56.00	13.76	L1	OFF	19.6
1.065750	---	34.44	46.00	11.56	L1	OFF	19.6
1.065750	38.21	---	56.00	17.79	L1	OFF	19.6
4.814250	---	25.48	46.00	20.52	L1	OFF	19.7
4.814250	29.13	---	56.00	26.87	L1	OFF	19.7
14.624250	---	27.94	50.00	22.06	L1	OFF	20.1
14.624250	34.87	---	60.00	25.13	L1	OFF	20.1

EUT Information

Report NO : 882923-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	31.68	55.88	24.20	N	OFF	19.5
0.152250	52.81	---	65.88	13.07	N	OFF	19.5
0.159000	---	29.87	55.52	25.65	N	OFF	19.5
0.159000	51.15	---	65.52	14.37	N	OFF	19.5
0.163500	---	29.09	55.28	26.19	N	OFF	19.5
0.163500	49.73	---	65.28	15.55	N	OFF	19.5
0.174750	---	27.39	54.73	27.34	N	OFF	19.5
0.174750	45.40	---	64.73	19.33	N	OFF	19.5
0.483000	---	31.46	46.29	14.83	N	OFF	19.5
0.483000	41.10	---	56.29	15.19	N	OFF	19.5
0.564000	---	33.39	46.00	12.61	N	OFF	19.5
0.564000	41.61	---	56.00	14.39	N	OFF	19.5
0.620250	---	28.38	46.00	17.62	N	OFF	19.6
0.620250	39.86	---	56.00	16.14	N	OFF	19.6
1.068000	---	32.65	46.00	13.35	N	OFF	19.6
1.068000	35.89	---	56.00	20.11	N	OFF	19.6
4.920000	---	25.52	46.00	20.48	N	OFF	19.7
4.920000	27.97	---	56.00	28.03	N	OFF	19.7
14.381250	---	27.75	50.00	22.25	N	OFF	20.1
14.381250	33.10	---	60.00	26.90	N	OFF	20.1



Appendix C. Radiated Spurious Emission

Test Engineer :	Hao Hsu, Ken Wu, and Chuan Zhu	Temperature :	21~26°C
		Relative Humidity :	51~56%

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

WIFI Ant.	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		2388.015	52.85	-21.15	74	42.53	27.45	16.5	33.63	122	29	P	H	
		2312.31	41.76	-12.24	54	31.28	27.75	16.39	33.66	122	29	A	H	
	*	2412	101.02	-	-	90.73	27.38	16.53	33.62	122	29	P	H	
	*	2412	97.88	-	-	87.59	27.38	16.53	33.62	122	29	A	H	
													H	
													H	
			2350.005	53.03	-20.97	74	42.62	27.6	16.45	33.64	395	63	P	V
			2319.135	41.66	-12.34	54	31.2	27.72	16.4	33.66	395	63	A	V
	*		2412	101.58	-	-	91.29	27.38	16.53	33.62	395	63	P	V
	*		2412	98.52	-	-	88.23	27.38	16.53	33.62	395	63	A	V
													V	
													V	
802.11b CH 06 2437MHz		2339.28	52.52	-21.48	74	42.1	27.64	16.43	33.65	204	18	P	H	
		2310	41.59	-12.41	54	31.11	27.76	16.38	33.66	204	18	A	H	
	*	2437	100.98	-	-	90.71	27.33	16.55	33.61	204	18	P	H	
	*	2437	97.81	-	-	87.54	27.33	16.55	33.61	204	18	A	H	
			2488.4	51.95	-22.05	74	41.65	27.3	16.59	33.59	204	18	P	H
			2485.2	41.57	-12.43	54	31.28	27.3	16.59	33.6	204	18	A	H
			2365.2	53.58	-20.42	74	43.21	27.54	16.47	33.64	398	75	P	V
			2314.48	41.56	-12.44	54	31.09	27.74	16.39	33.66	398	75	A	V
	*		2437	101.85	-	-	91.58	27.33	16.55	33.61	398	75	P	V
	*		2437	98.56	-	-	88.29	27.33	16.55	33.61	398	75	A	V
			2498.16	51.95	-22.05	74	41.64	27.3	16.6	33.59	398	75	P	V
			2484.72	41.47	-12.53	54	31.18	27.3	16.59	33.6	398	75	A	V



802.11b CH 11 2462MHz	*	2462	103.13	-	-	92.86	27.3	16.57	33.6	198	18	P	H
	*	2462	99.98	-	-	89.71	27.3	16.57	33.6	198	18	A	H
		2488.48	52.13	-21.87	74	41.83	27.3	16.59	33.59	198	18	P	H
		2484.76	42.15	-11.85	54	31.86	27.3	16.59	33.6	198	18	A	H
													H
													H
	*	2462	104.76	-	-	94.49	27.3	16.57	33.6	388	75	P	V
	*	2462	101.56	-	-	91.29	27.3	16.57	33.6	388	75	A	V
		2489.4	53.55	-20.45	74	43.25	27.3	16.59	33.59	388	75	P	V
		2484.68	42.05	-11.95	54	31.76	27.3	16.59	33.6	388	75	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WiFi Ant. 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)	
802.11b CH 12 2467MHz	*	2467	103.95	-	-	93.68	27.3	16.57	33.6	193	41	P	H	
	*	2467	100.76	-	-	90.49	27.3	16.57	33.6	193	41	A	H	
		2484.04	53.68	-20.32	74	43.39	27.3	16.59	33.6	193	41	P	H	
		2484.12	42.69	-11.31	54	32.4	27.3	16.59	33.6	193	41	A	H	
													H	
														H
	*	2467	101.79	-	-	91.52	27.3	16.57	33.6	301	69	P	V	
	*	2467	98.64	-	-	88.37	27.3	16.57	33.6	301	69	A	V	
		2483.6	53.43	-20.57	74	43.14	27.3	16.59	33.6	301	69	P	V	
		2484.2	42.44	-11.56	54	32.15	27.3	16.59	33.6	301	69	A	V	
														V
														V
802.11b CH 13 2472MHz	*	2472	103.48	-	-	93.2	27.3	16.58	33.6	192	41	P	H	
	*	2472	100.13	-	-	89.85	27.3	16.58	33.6	192	41	A	H	
		2483.56	55.99	-18.01	74	45.7	27.3	16.59	33.6	192	41	P	H	
		2483.52	48.92	-5.08	54	38.63	27.3	16.59	33.6	192	41	A	H	
														H
														H
	*	2472	101.48	-	-	91.2	27.3	16.58	33.6	300	68	P	V	
	*	2472	98.35	-	-	88.07	27.3	16.58	33.6	300	68	A	V	
		2483.52	54.5	-19.5	74	44.21	27.3	16.59	33.6	300	68	P	V	
		2483.52	47.88	-6.12	54	37.59	27.3	16.59	33.6	300	68	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. 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)	
802.11b CH 01 2412MHz		4824	49.49	-24.51	74	66.86	31.1	10.1	58.57	100	0	P	H	
													H	
													H	
													H	
			4824	47.43	-26.57	74	64.8	31.1	10.1	58.57	100	0	P	V
														V
														V
802.11b CH 06 2437MHz		4874	49.08	-24.92	74	66.44	31.05	10.14	58.55	100	0	P	H	
		7311	43.11	-30.89	74	52.93	36.52	12.49	58.83	100	0	P	H	
													H	
													H	
			4874	46.95	-27.05	74	64.31	31.05	10.14	58.55	100	0	P	V
			7311	42.66	-31.34	74	52.48	36.52	12.49	58.83	100	0	P	V
														V
802.11b CH 11 2462MHz		4924	52.04	-21.96	74	69.24	31.14	10.19	58.53	300	346	P	H	
		4924	49.97	-4.03	54	67.17	31.14	10.19	58.53	300	346	A	H	
		7386	42.47	-31.53	74	52.3	36.46	12.43	58.72	100	0	P	H	
													H	
			4924	51.77	-22.23	74	68.97	31.14	10.19	58.53	104	319	P	V
			4924	49.36	-4.64	54	66.56	31.14	10.19	58.53	104	319	A	V
			7386	41.86	-32.14	74	51.69	36.46	12.43	58.72	100	0	P	V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



WIFI Ant. 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)
802.11b CH 12 2467MHz		4934	48.28	-25.72	74	65.41	31.2	10.2	58.53	100	0	P	H
		7401	42.36	-31.64	74	52.24	36.4	12.42	58.7	100	0	P	H
													H
													H
		4934	47.35	-26.65	74	64.48	31.2	10.2	58.53	100	0	P	V
		7401	42.26	-31.74	74	52.14	36.4	12.42	58.7	100	0	P	V
													V
													V
802.11b CH 13 2472MHz		4944	44.02	-29.98	74	61.07	31.26	10.21	58.52	100	0	P	H
		7416	42.22	-31.78	74	52.05	36.43	12.44	58.7	100	0	P	H
													H
													H
		4944	41.34	-32.66	74	58.39	31.26	10.21	58.52	100	0	P	V
		7416	42.23	-31.77	74	52.06	36.43	12.44	58.7	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. 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)	
802.11g CH 01 2412MHz		2390	56.78	-17.22	74	46.46	27.44	16.51	33.63	206	40	P	H	
		2390	46.87	-7.13	54	36.55	27.44	16.51	33.63	206	40	A	H	
	*	2412	104.65	-	-	94.36	27.38	16.53	33.62	206	40	P	H	
	*	2412	95.77	-	-	85.48	27.38	16.53	33.62	206	40	A	H	
													H	
														H
			2389.905	55.76	-18.24	74	45.45	27.44	16.5	33.63	400	55	P	V
			2390	45.18	-8.82	54	34.86	27.44	16.51	33.63	400	55	A	V
	*		2412	102.44	-	-	92.15	27.38	16.53	33.62	400	55	P	V
	*		2412	94.28	-	-	83.99	27.38	16.53	33.62	400	55	A	V
														V
														V
802.11g CH 06 2437MHz		2341.04	53.29	-20.71	74	42.87	27.64	16.43	33.65	200	42	P	H	
		2348.88	42.7	-11.3	54	32.3	27.6	16.44	33.64	200	42	A	H	
	*	2437	104.78	-	-	94.51	27.33	16.55	33.61	200	42	P	H	
	*	2437	97.01	-	-	86.74	27.33	16.55	33.61	200	42	A	H	
			2483.52	60.64	-13.36	74	50.35	27.3	16.59	33.6	200	42	P	H
			2483.84	44.05	-9.95	54	33.76	27.3	16.59	33.6	200	42	A	H
			2317.52	53.26	-20.74	74	42.79	27.73	16.4	33.66	194	266	P	V
			2328.08	42.7	-11.3	54	32.25	27.69	16.41	33.65	194	266	A	V
	*		2437	102.59	-	-	92.32	27.33	16.55	33.61	194	266	P	V
	*		2437	94.73	-	-	84.46	27.33	16.55	33.61	194	266	A	V
			2483.84	57.94	-16.06	74	47.65	27.3	16.59	33.6	194	266	P	V
			2483.52	43.38	-10.62	54	33.09	27.3	16.59	33.6	194	266	A	V



802.11g CH 11 2462MHz	*	2462	107.08	-	-	96.81	27.3	16.57	33.6	200	45	P	H
	*	2462	99.18	-	-	88.91	27.3	16.57	33.6	200	45	A	H
		2483.68	58.9	-15.1	74	48.61	27.3	16.59	33.6	200	45	P	H
		2483.52	47.34	-6.66	54	37.05	27.3	16.59	33.6	200	45	A	H
													H
													H
	*	2462	105.1	-	-	94.83	27.3	16.57	33.6	311	65	P	V
	*	2462	97.51	-	-	87.24	27.3	16.57	33.6	311	65	A	V
		2483.56	57.88	-16.12	74	47.59	27.3	16.59	33.6	311	65	P	V
		2483.6	46.14	-7.86	54	35.85	27.3	16.59	33.6	311	65	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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)
802.11g CH 12 2467MHz	*	2467	102.35	-	-	92.08	27.3	16.57	33.6	192	41	P	H
	*	2467	94.15	-	-	83.88	27.3	16.57	33.6	192	41	A	H
		2483.52	61.73	-12.27	74	51.44	27.3	16.59	33.6	192	41	P	H
		2483.52	50.88	-3.12	54	40.59	27.3	16.59	33.6	192	41	A	H
													H
													H
	*	2467	100.15	-	-	89.88	27.3	16.57	33.6	309	68	P	V
	*	2467	92.24	-	-	81.97	27.3	16.57	33.6	309	68	A	V
		2483.56	58.05	-15.95	74	47.76	27.3	16.59	33.6	309	68	P	V
		2483.52	48.45	-5.55	54	38.16	27.3	16.59	33.6	309	68	A	V
													V
													V
802.11g CH 13 2472MHz	*	2472	86.84	-	-	76.56	27.3	16.58	33.6	194	41	P	H
	*	2472	79.06	-	-	68.78	27.3	16.58	33.6	194	41	A	H
		2483.6	61.2	-12.8	74	50.91	27.3	16.59	33.6	194	41	P	H
		2483.52	50.91	-3.09	54	40.62	27.3	16.59	33.6	194	41	A	H
													H
													H
	*	2472	83.86	-	-	73.58	27.3	16.58	33.6	375	77	P	V
	*	2472	76.32	-	-	66.04	27.3	16.58	33.6	375	77	A	V
		2483.6	58.66	-15.34	74	48.37	27.3	16.59	33.6	375	77	P	V
		2483.52	47.13	-6.87	54	36.84	27.3	16.59	33.6	375	77	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. 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)
802.11g CH 01 2412MHz		4824	46.71	-27.29	74	64.08	31.1	10.1	58.57	100	0	P	H
													H
													H
													H
		4824	45.3	-28.7	74	62.67	31.1	10.1	58.57	100	0	P	V
													V
													V
802.11g CH 06 2437MHz		4874	45.44	-28.56	74	62.8	31.05	10.14	58.55	100	0	P	H
		7311	43.16	-30.84	74	52.98	36.52	12.49	58.83	100	0	P	H
													H
													H
		4874	44.13	-29.87	74	61.49	31.05	10.14	58.55	100	0	P	V
		7311	42.07	-31.93	74	51.89	36.52	12.49	58.83	100	0	P	V
													V
802.11g CH 11 2462MHz		4924	47.76	-26.24	74	64.96	31.14	10.19	58.53	100	0	P	H
		7386	42.21	-31.79	74	52.04	36.46	12.43	58.72	100	0	P	H
													H
													H
		4924	46.47	-27.53	74	63.67	31.14	10.19	58.53	100	0	P	V
		7386	41.92	-32.08	74	51.75	36.46	12.43	58.72	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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)
802.11g CH 12 2467MHz		4934	39.29	-34.71	74	56.42	31.2	10.2	58.53	100	0	P	H
		7401	41.91	-32.09	74	51.79	36.4	12.42	58.7	100	0	P	H
													H
													H
		4934	38.52	-35.48	74	55.65	31.2	10.2	58.53	100	0	P	V
		7401	41.33	-32.67	74	51.21	36.4	12.42	58.7	100	0	P	V
													V
													V
802.11g CH 13 2472MHz		4944	38.78	-35.22	74	55.83	31.26	10.21	58.52	100	0	P	H
		7416	41.64	-32.36	74	51.47	36.43	12.44	58.7	100	0	P	H
													H
													H
		4944	38.42	-35.58	74	55.47	31.26	10.21	58.52	100	0	P	V
		7416	42.09	-31.91	74	51.92	36.43	12.44	58.7	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 Ant. 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		2390	59.67	-14.33	74	49.35	27.44	16.51	33.63	208	41	P	H	
		2390	49.3	-4.7	54	38.98	27.44	16.51	33.63	208	41	A	H	
	*	2412	103.2	-	-	92.91	27.38	16.53	33.62	208	41	P	H	
	*	2412	95.11	-	-	84.82	27.38	16.53	33.62	208	41	A	H	
													H	
													H	
			2389.905	57.91	-16.09	74	47.6	27.44	16.5	33.63	200	237	P	V
			2390	47.51	-6.49	54	37.19	27.44	16.51	33.63	200	237	A	V
		*	2412	101.68	-	-	91.39	27.38	16.53	33.62	200	237	P	V
		*	2412	93.52	-	-	83.23	27.38	16.53	33.62	200	237	A	V
														V
														V
802.11n HT20 CH 06 2437MHz		2310.16	53.27	-20.73	74	42.78	27.76	16.39	33.66	226	41	P	H	
		2343.6	42.53	-11.47	54	32.11	27.63	16.44	33.65	226	41	A	H	
	*	2437	104.83	-	-	94.56	27.33	16.55	33.61	226	41	P	H	
	*	2437	96.33	-	-	86.06	27.33	16.55	33.61	226	41	A	H	
		2483.6	60.15	-13.85	74	49.86	27.3	16.59	33.6	226	41	P	H	
		2483.6	43.59	-10.41	54	33.3	27.3	16.59	33.6	226	41	A	H	
		2328.56	52.97	-21.03	74	42.52	27.69	16.41	33.65	202	267	P	V	
		2369.2	42.49	-11.51	54	32.14	27.52	16.47	33.64	202	267	A	V	
		*	2437	102.39	-	-	92.12	27.33	16.55	33.61	202	267	P	V
		*	2437	94.11	-	-	83.84	27.33	16.55	33.61	202	267	A	V
			2484.96	58.11	-15.89	74	47.82	27.3	16.59	33.6	202	267	P	V
			2485.76	42.88	-11.12	54	32.59	27.3	16.59	33.6	202	267	A	V



802.11n HT20 CH 11 2462MHz	*	2462	107	-	-	96.73	27.3	16.57	33.6	198	42	P	H
	*	2462	98.79	-	-	88.52	27.3	16.57	33.6	198	42	A	H
		2483.56	58.99	-15.01	74	48.7	27.3	16.59	33.6	198	42	P	H
		2483.52	48.46	-5.54	54	38.17	27.3	16.59	33.6	198	42	A	H
													H
													H
	*	2462	105.49	-	-	95.22	27.3	16.57	33.6	309	66	P	V
	*	2462	97.04	-	-	86.77	27.3	16.57	33.6	309	66	A	V
		2484.44	55.99	-18.01	74	45.7	27.3	16.59	33.6	309	66	P	V
		2483.52	46.67	-7.33	54	36.38	27.3	16.59	33.6	309	66	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 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 12 2467MHz	*	2467	101.95	-	-	91.68	27.3	16.57	33.6	197	42	P	H
	*	2467	93.13	-	-	82.86	27.3	16.57	33.6	197	42	A	H
		2483.6	62.88	-11.12	74	52.59	27.3	16.59	33.6	197	42	P	H
		2483.52	50.92	-3.08	54	40.63	27.3	16.59	33.6	197	42	A	H
													H
													H
	*	2467	99.58	-	-	89.31	27.3	16.57	33.6	309	68	P	V
	*	2467	91.29	-	-	81.02	27.3	16.57	33.6	309	68	A	V
		2483.56	59.95	-14.05	74	49.66	27.3	16.59	33.6	309	68	P	V
		2483.52	48.49	-5.51	54	38.2	27.3	16.59	33.6	309	68	A	V
												V	
												V	
802.11n HT20 CH 13 2472MHz	*	2472	85.17	-	-	74.89	27.3	16.58	33.6	193	41	P	H
	*	2472	77.66	-	-	67.38	27.3	16.58	33.6	193	41	A	H
		2483.92	61.72	-12.28	74	51.43	27.3	16.59	33.6	193	41	P	H
		2483.52	50.44	-3.56	54	40.15	27.3	16.59	33.6	193	41	A	H
													H
													H
	*	2472	83.27	-	-	72.99	27.3	16.58	33.6	302	67	P	V
	*	2472	75.89	-	-	65.61	27.3	16.58	33.6	302	67	A	V
		2483.64	59.71	-14.29	74	49.42	27.3	16.59	33.6	302	67	P	V
		2483.52	49.64	-4.36	54	39.35	27.3	16.59	33.6	302	67	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. 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	45.36	-28.64	74	62.73	31.1	10.1	58.57	100	0	P	H	
													H	
													H	
													H	
			4824	44.72	-29.28	74	62.09	31.1	10.1	58.57	100	0	P	V
														V
														V
802.11n HT20 CH 06 2437MHz		4874	44.84	-29.16	74	62.2	31.05	10.14	58.55	100	0	P	H	
													H	
			7311	42.36	-31.64	74	52.18	36.52	12.49	58.83	100	0	P	H
														H
														H
			4874	43.56	-30.44	74	60.92	31.05	10.14	58.55	100	0	P	V
			7311	43.17	-30.83	74	52.99	36.52	12.49	58.83	100	0	P	V
802.11n HT20 CH 11 2462MHz													V	
													V	
			4924	47.2	-26.8	74	64.4	31.14	10.19	58.53	100	0	P	H
			7386	41.95	-32.05	74	51.78	36.46	12.43	58.72	100	0	P	H
														H
														H
			4924	47.38	-26.62	74	64.58	31.14	10.19	58.53	100	0	P	V
		7386	41.86	-32.14	74	51.69	36.46	12.43	58.72	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. 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 12 2467MHz		4934	41.21	-32.79	74	58.34	31.2	10.2	58.53	100	0	P	H
		7401	41.66	-32.34	74	51.54	36.4	12.42	58.7	100	0	P	H
													H
													H
		4934	39.7	-34.3	74	56.83	31.2	10.2	58.53	100	0	P	V
		7401	41.95	-32.05	74	51.83	36.4	12.42	58.7	100	0	P	V
802.11n HT20 CH 13 2472MHz		4944	39.72	-34.28	74	56.77	31.26	10.21	58.52	100	0	P	H
		7416	41.39	-32.61	74	51.22	36.43	12.44	58.7	100	0	P	H
													H
													H
		4944	38.75	-35.25	74	55.8	31.26	10.21	58.52	100	0	P	V
		7416	41.43	-32.57	74	51.26	36.43	12.44	58.7	100	0	P	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average 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	Peak or Average
H/V	Horizontal or Vertical



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

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

1. 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

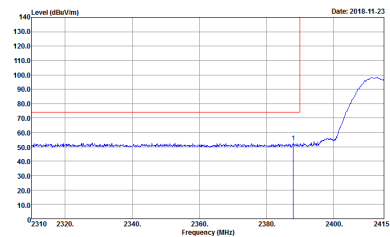
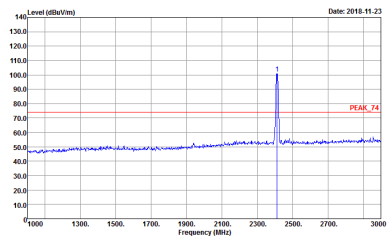
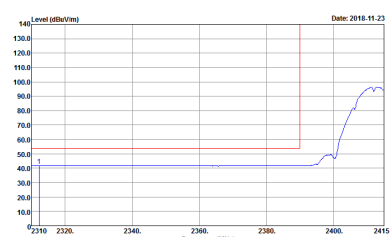
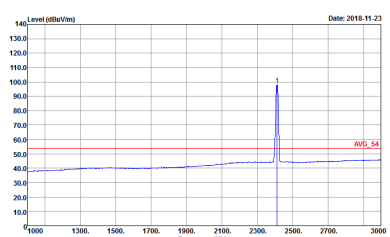
Test Engineer :	Hao Hsu, Ken Wu, and Chuan Zhu	Temperature :	21~26°C
		Relative Humidity :	51~56%

Note symbol

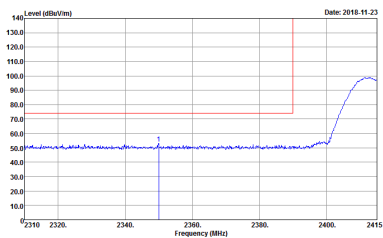
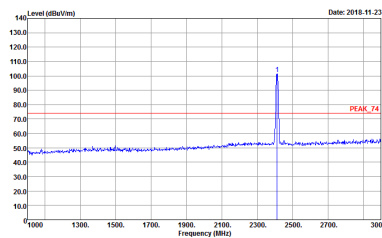
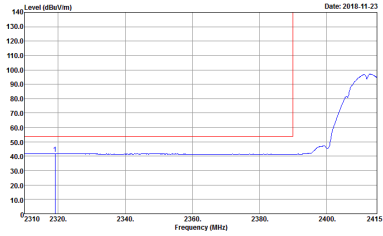
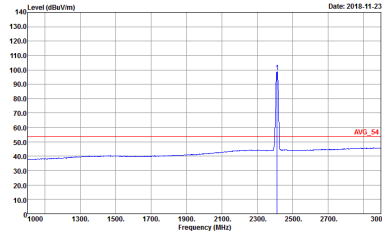
-L	Low channel location
-R	High channel location



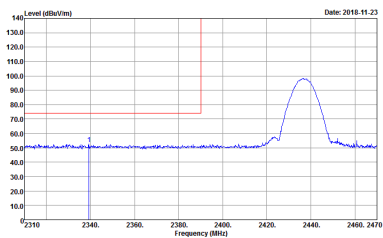
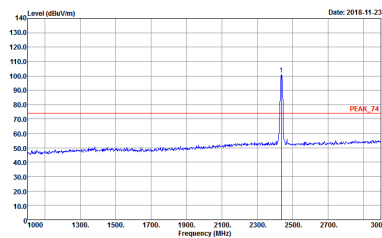
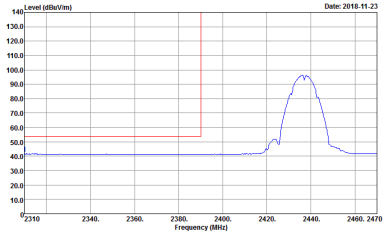
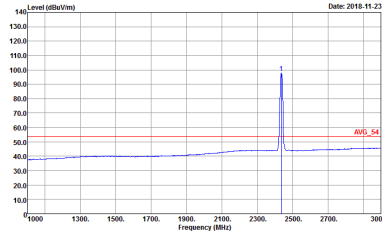
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 882923-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>

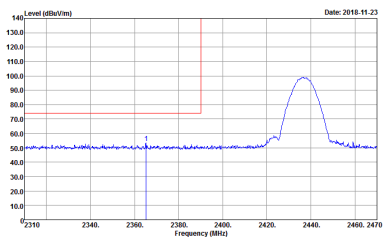
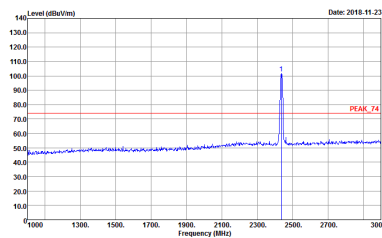
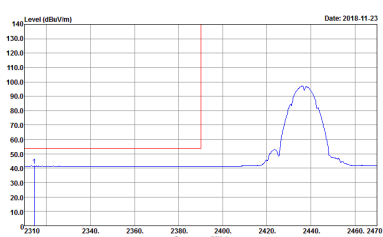
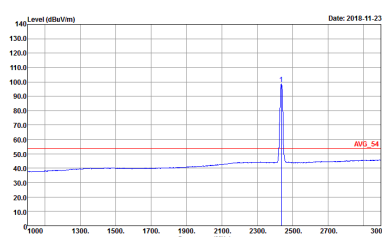


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>

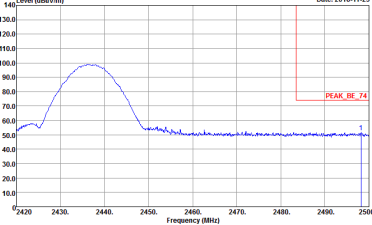
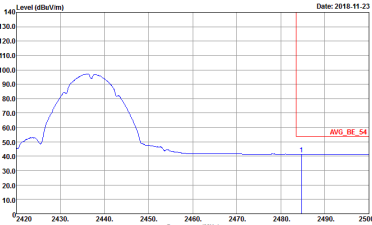


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	Left blank
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	Left blank

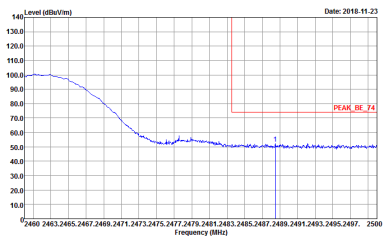
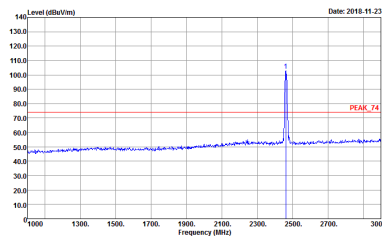
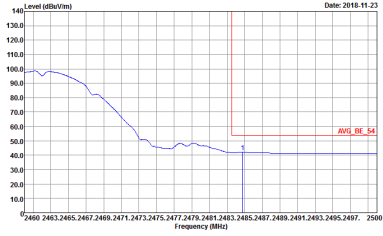
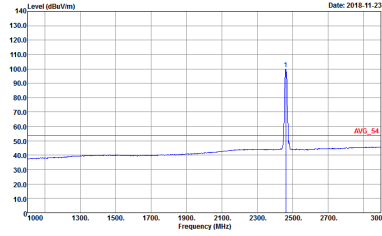


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>

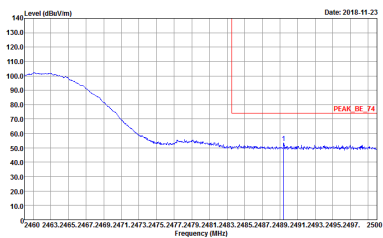
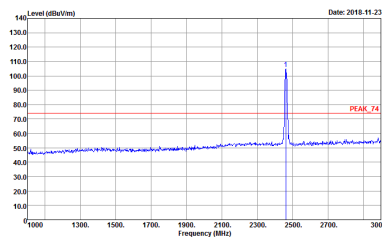
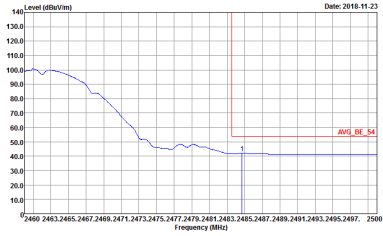
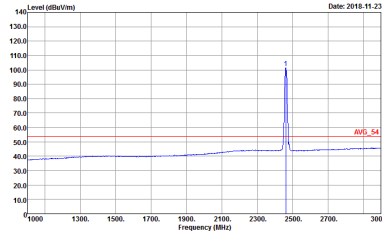


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	<p>Left blank</p>

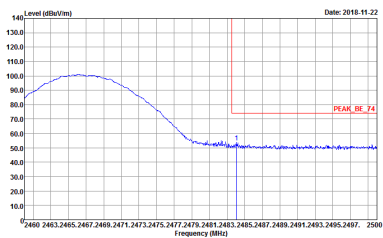
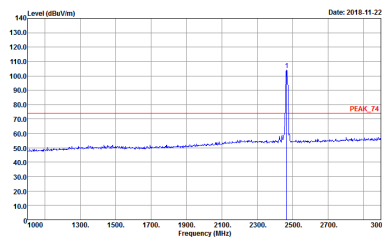
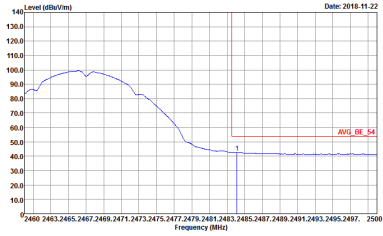
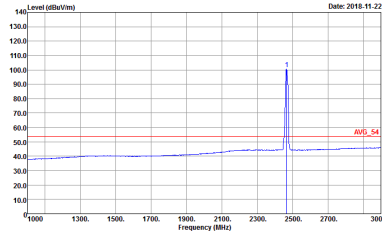


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>

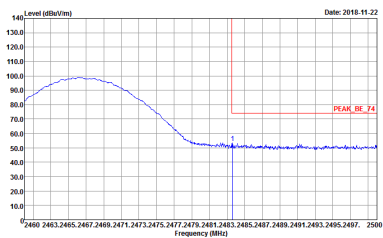
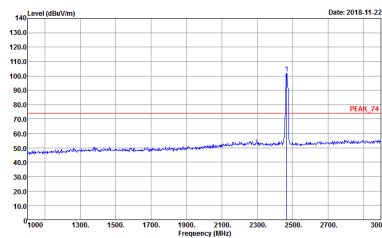
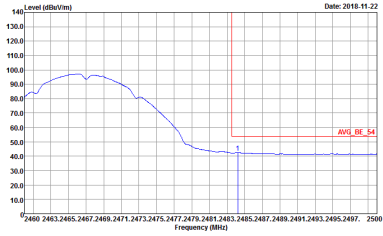
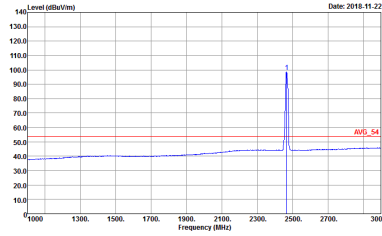


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>
<p>Avg.</p>	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>

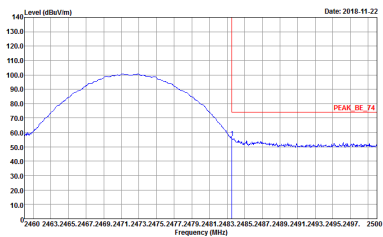
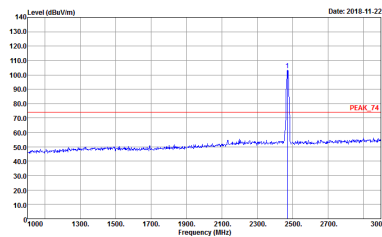
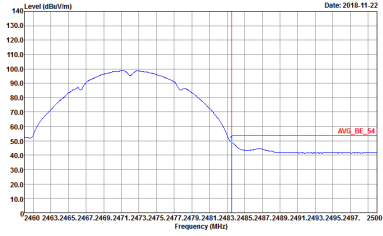
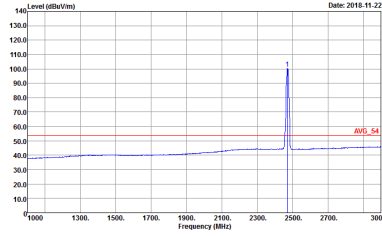


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>

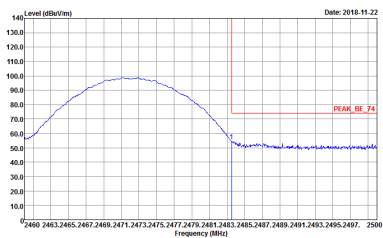
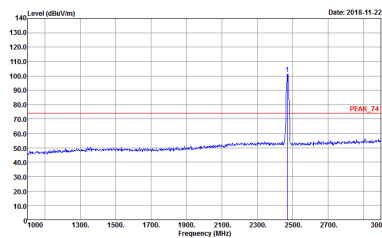
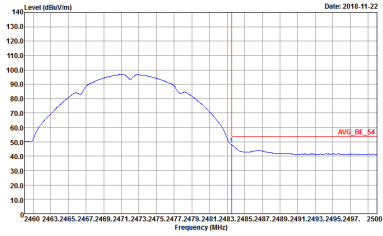
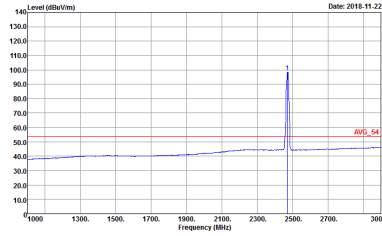


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>
<p>Avg.</p>	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>



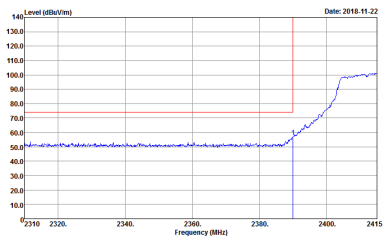
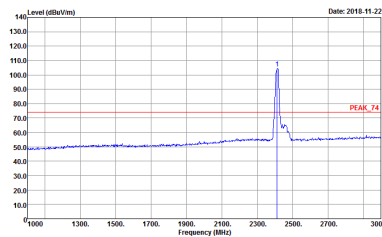
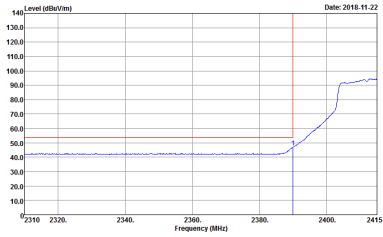
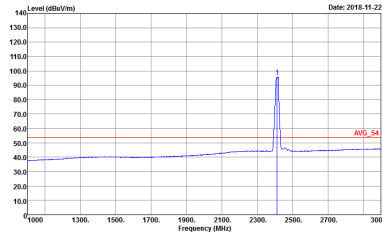
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01 Setting : 16.5</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01 Setting : 16.5</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01 Setting : 16.5</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01 Setting : 16.5</p>



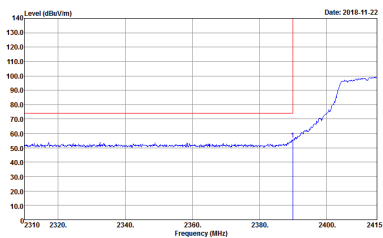
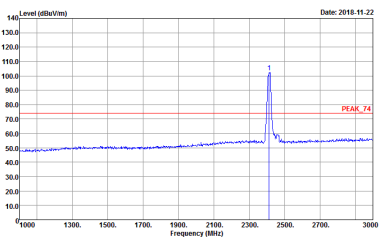
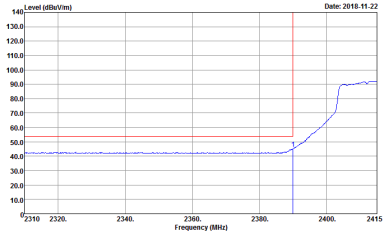
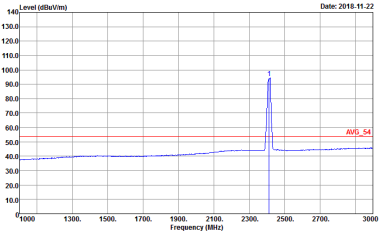
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01 Setting : 16.5</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01 Setting : 16.5</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01 Setting : 16.5</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01 Setting : 16.5</p>



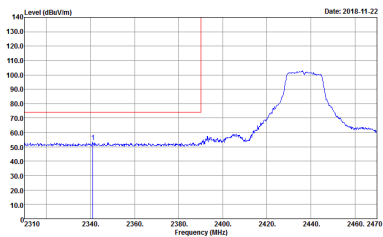
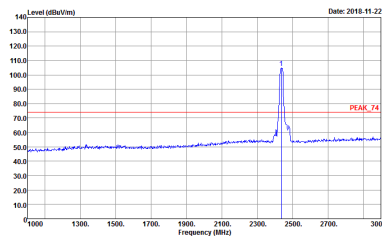
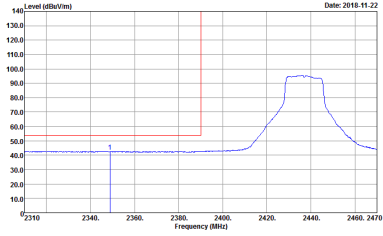
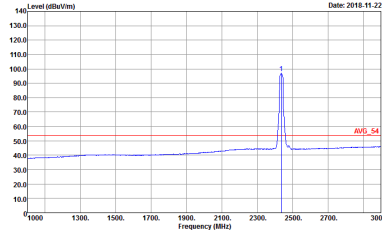
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 882923-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01</p>
Avg.	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 882923-01</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 882923-01</p>

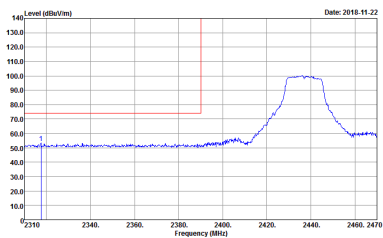
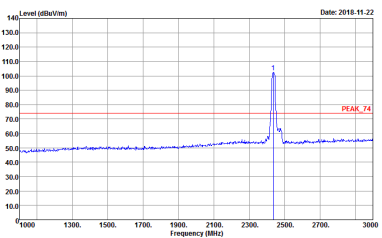
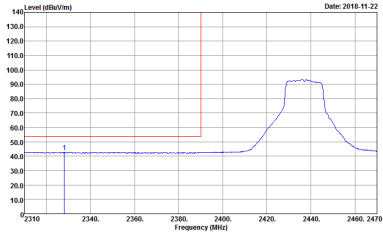
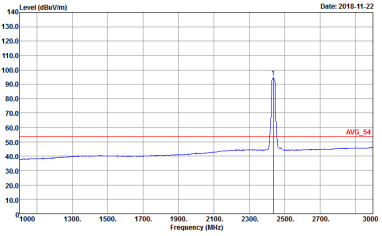


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01</p>
Avg.	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 882923-01</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	Left blank
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	Left blank

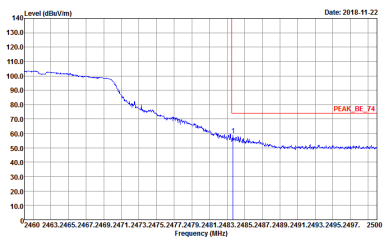
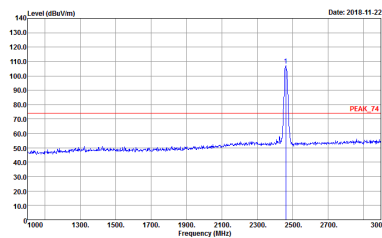
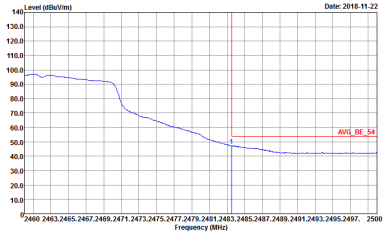
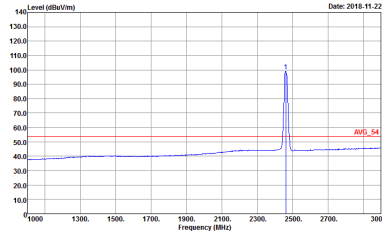


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01</p>
Avg.	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 882923-01</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 882923-01</p>

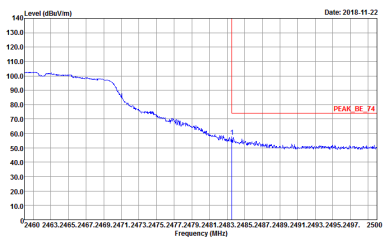
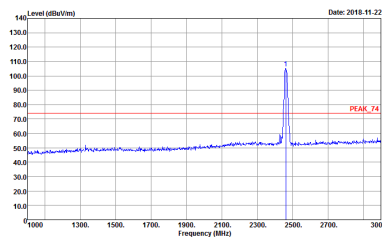
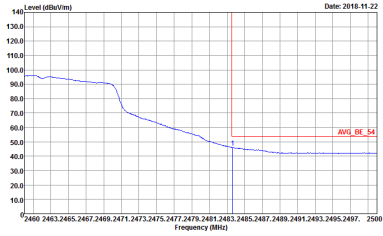
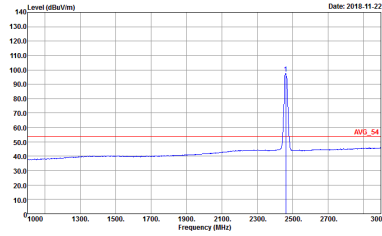


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01</p>	Left Blank
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 882923-01</p>	Left Blank

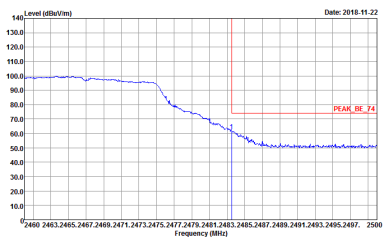
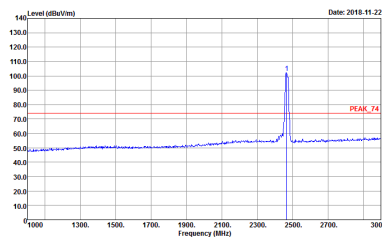
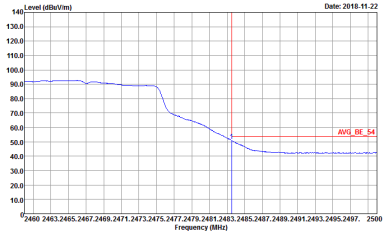
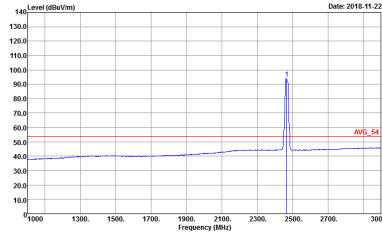


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>

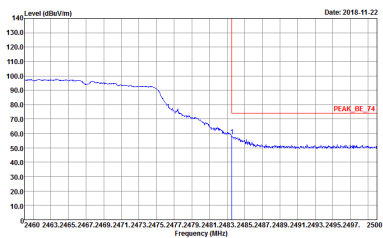
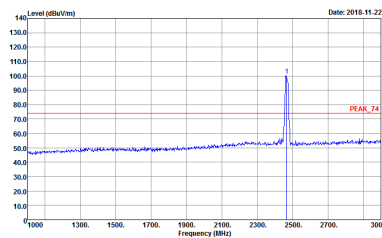
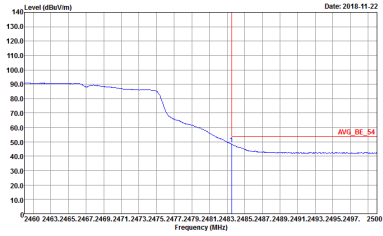
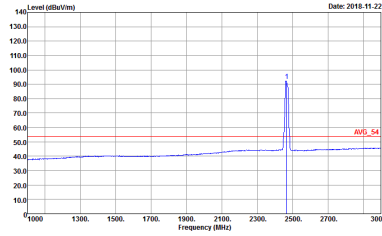


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>

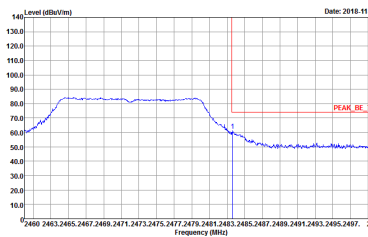
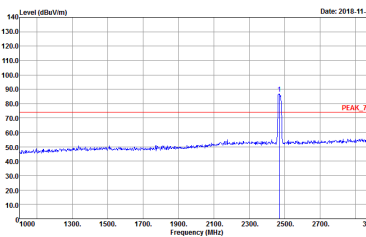
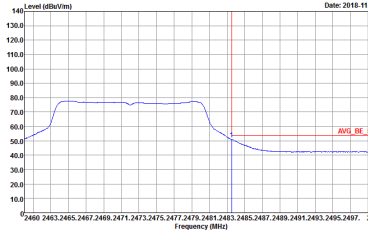
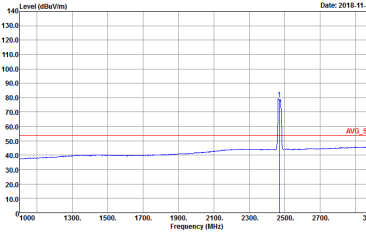


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01 Setting : 11.5</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01 Setting : 11.5</p>
Avg.	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01 Setting : 11.5</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01 Setting : 11.5</p>

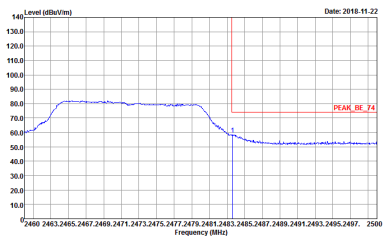
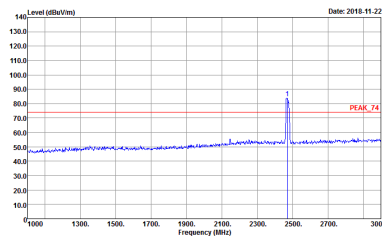
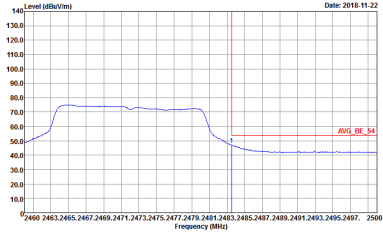
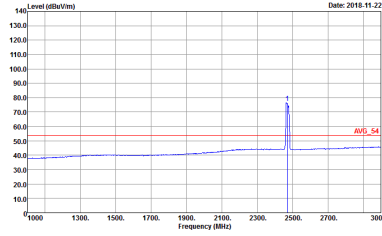


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Vertical	Fundamental
Peak	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01 Setting : 11.5</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01 Setting : 11.5</p>
Avg.	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01 Setting : 11.5</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01 Setting : 11.5</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Date: 2018-11-22</p> <p>Level (dBm/Vm)</p> <p>Frequency (MHz)</p> <p>PEAK_BE_74</p> <pre> Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Project : 882923-01 Detector : Peak Setting : 0 Gain Index : 0 Dac Gain : -5 PA CFG : 0 : Use Forced Desired Gain </pre>	 <p>Date: 2018-11-22</p> <p>Level (dBm/Vm)</p> <p>Frequency (MHz)</p> <p>PEAK_74</p> <pre> Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Project : 882923-01 Detector : Peak Setting : 0 Gain Index : 0 Dac Gain : -5 PA CFG : 0 : Use Forced Desired Gain </pre>
<p>Avg.</p>	 <p>Date: 2018-11-22</p> <p>Level (dBm/Vm)</p> <p>Frequency (MHz)</p> <p>AVG_BE_54</p> <pre> Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Project : 882923-01 Detector : Peak Setting : 0 Gain Index : 0 Dac Gain : -5 PA CFG : 0 : Use Forced Desired Gain </pre>	 <p>Date: 2018-11-22</p> <p>Level (dBm/Vm)</p> <p>Frequency (MHz)</p> <p>AVG_54</p> <pre> Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Project : 882923-01 Detector : Peak Setting : 0 Gain Index : 0 Dac Gain : -5 PA CFG : 0 : Use Forced Desired Gain </pre>



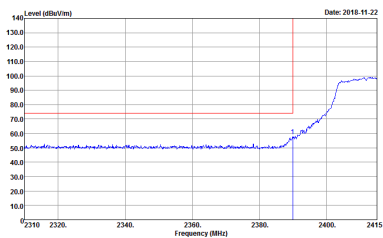
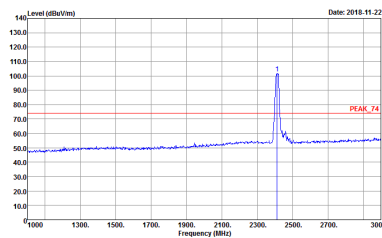
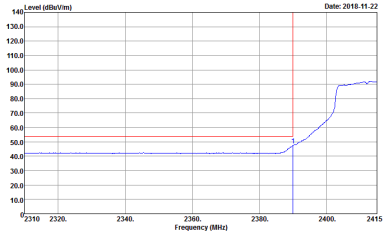
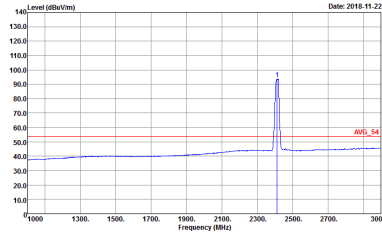
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1	Vertical	Fundamental
<p>Peak</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 0 Gain Index : 0 Dac Gain : -5 PA CFG : 0 : Use Forced Desired Gain</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 0 Gain Index : 0 Dac Gain : -5 PA CFG : 0 : Use Forced Desired Gain</p>
<p>Avg.</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 0 Gain Index : 0 Dac Gain : -5 PA CFG : 0 : Use Forced Desired Gain</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 0 Gain Index : 0 Dac Gain : -5 PA CFG : 0 : Use Forced Desired Gain</p>



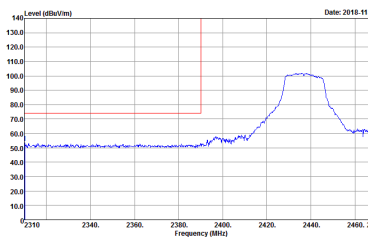
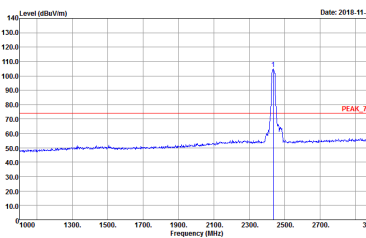
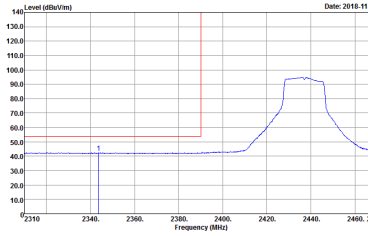
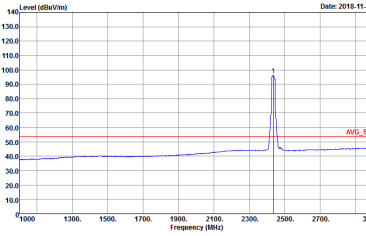
2.4GHz 2400~2483.5MHz
 WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 882923-01</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 882923-01</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>

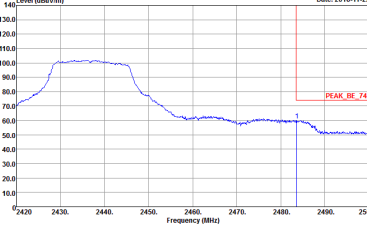
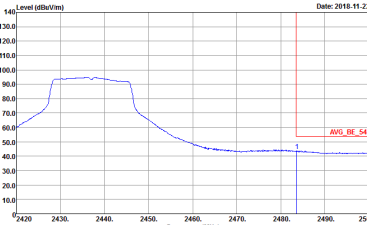


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>

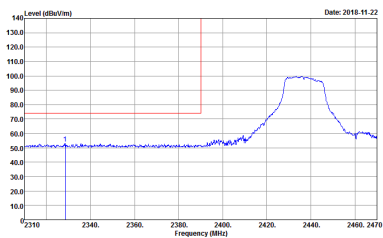
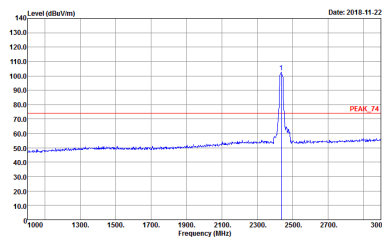
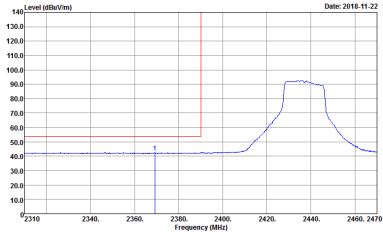
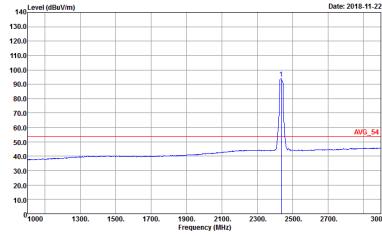


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01</p>
Avg.	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 882923-01</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Left blank</p>

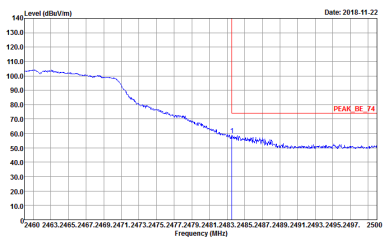
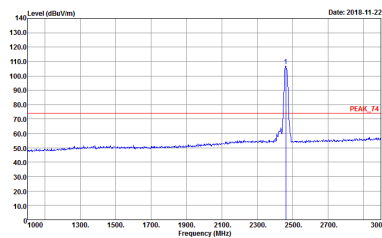
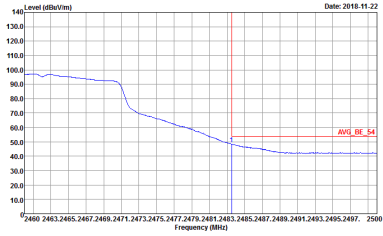
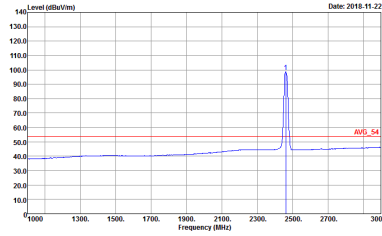


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>

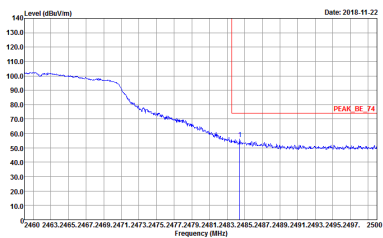
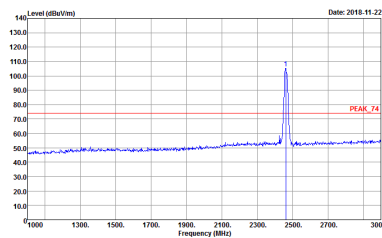
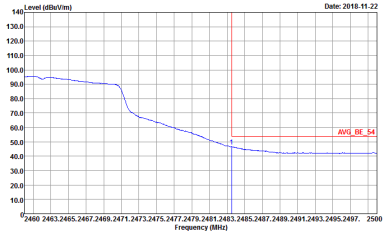
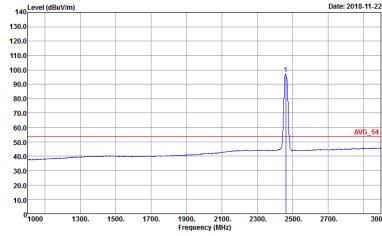


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	Left Blank
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	Left Blank

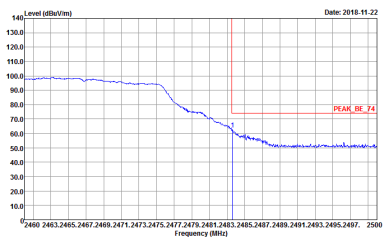
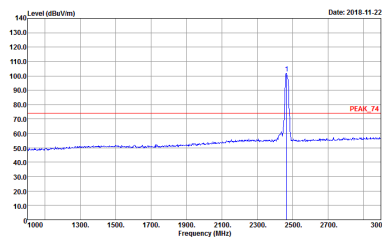
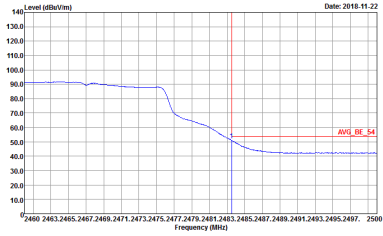
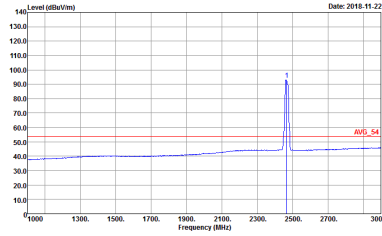


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>

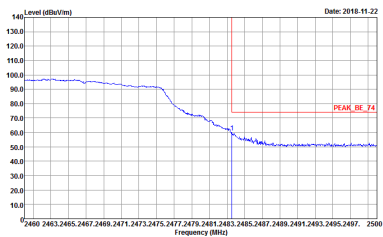
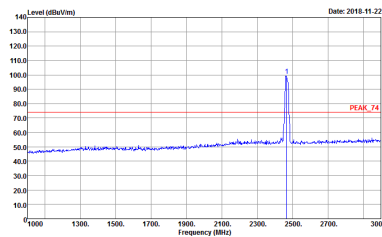
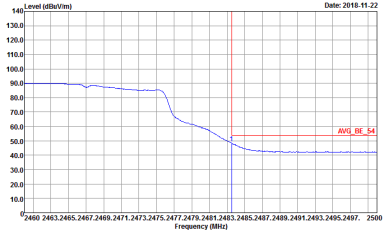
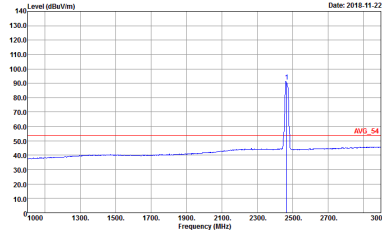


WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>

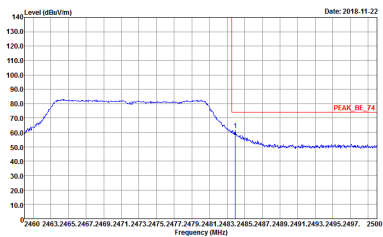
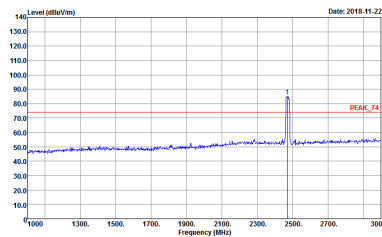
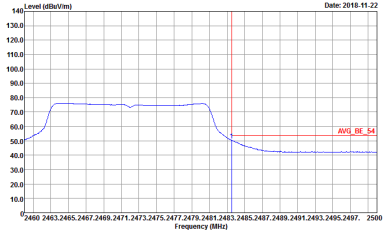
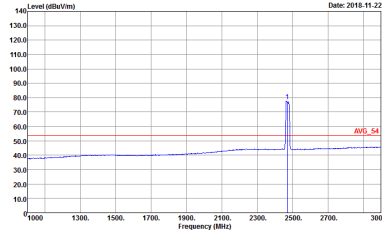


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 11</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 11</p>
Avg.	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 11</p>	 <p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 11</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01 Setting : 11</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01 Setting : 11</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01 Setting : 11</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01 Setting : 11</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01 Setting : 0 Gain Index : 0 Dac Gain : -15 PA CFG : 0 : Use Forced Desired Gain</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01 Setting : 0 Gain Index : 0 Dac Gain : -15 PA CFG : 0 : Use Forced Desired Gain</p>
<p>Avg.</p>	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01 Setting : 0 Gain Index : 0 Dac Gain : -15 PA CFG : 0 : Use Forced Desired Gain</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01 Setting : 0 Gain Index : 0 Dac Gain : -15 PA CFG : 0 : Use Forced Desired Gain</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Vertical	Fundamental
<p>Peak</p>	<p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 0 Gain Index : 0 Dac Gain : -15 PA CFG : 0 : Use Forced Desired Gain</p>	<p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 0 Gain Index : 0 Dac Gain : -15 PA CFG : 0 : Use Forced Desired Gain</p>
<p>Avg.</p>	<p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 0 Gain Index : 0 Dac Gain : -15 PA CFG : 0 : Use Forced Desired Gain</p>	<p>Date: 2018-11-22</p> <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 882923-01 Setting : 0 Gain Index : 0 Dac Gain : -15 PA CFG : 0 : Use Forced Desired Gain</p>



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

Table with 3 columns: WIFI, ANT, and measurement results for Horizontal and Vertical orientations. Includes two graphs showing Level (dBuV/m) vs Frequency (MHz) and associated metadata like Site, Condition, Detector, and Project.

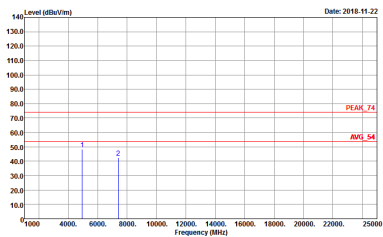
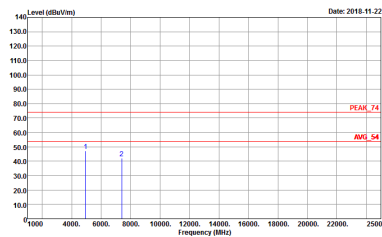


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH12 2467MHz	
1	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	 <p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH13 2472MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>



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

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH12 2467MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH13 2472MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>



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

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 882923-01</p>



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

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11b LF	
1	Horizontal	Vertical
QP / Peak	<p>Site : 03CH11-HY Condition : QP 3m BE-LOG 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-HY Condition : QP 3m BE-LOG 6111D-LF_ETC VERTICAL Detector : Peak Project : 882923-01</p>



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

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11g LF	
1	Horizontal	Vertical
QP / Peak	<p>Site : 03CH11-HY Condition : QP 3m BE-LOG 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-HY Condition : QP 3m BE-LOG 6111D-LF_ETC VERTICAL Detector : Peak Project : 882923-01</p>



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

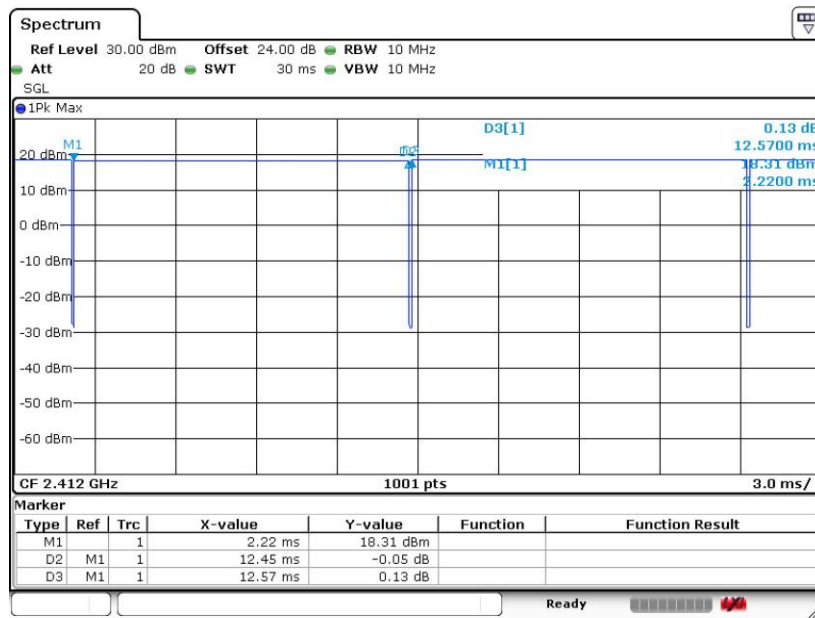
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak	<p>Site : 03CH11-HY Condition : QP 3m BE-LOG 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 882923-01</p>	<p>Site : 03CH11-HY Condition : QP 3m BE-LOG 6111D-LF_ETC VERTICAL Detector : Peak Project : 882923-01</p>



Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11b	99.05	-	-	10Hz	0.04
802.11g	94.95	2070	0.48	1kHz	0.23
802.11n HT20	94.55	1910	0.52	1kHz	0.24

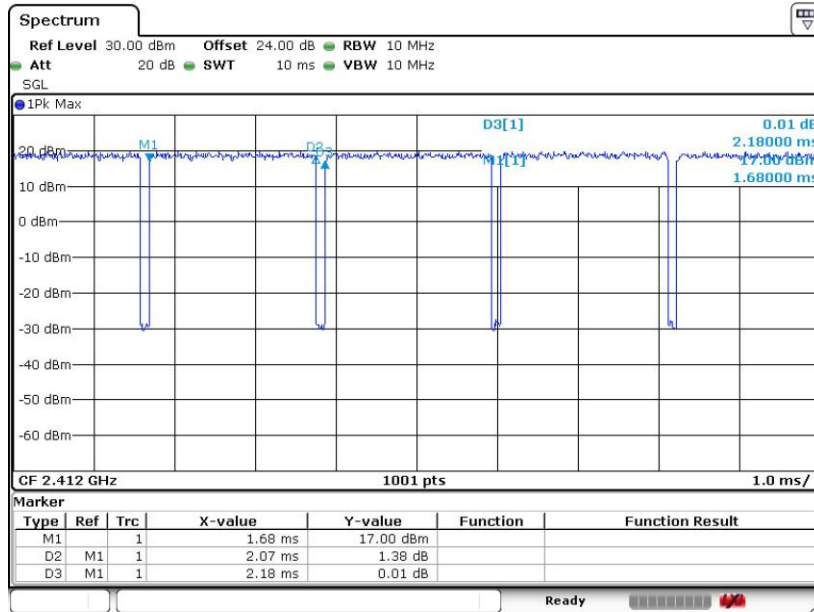
802.11b



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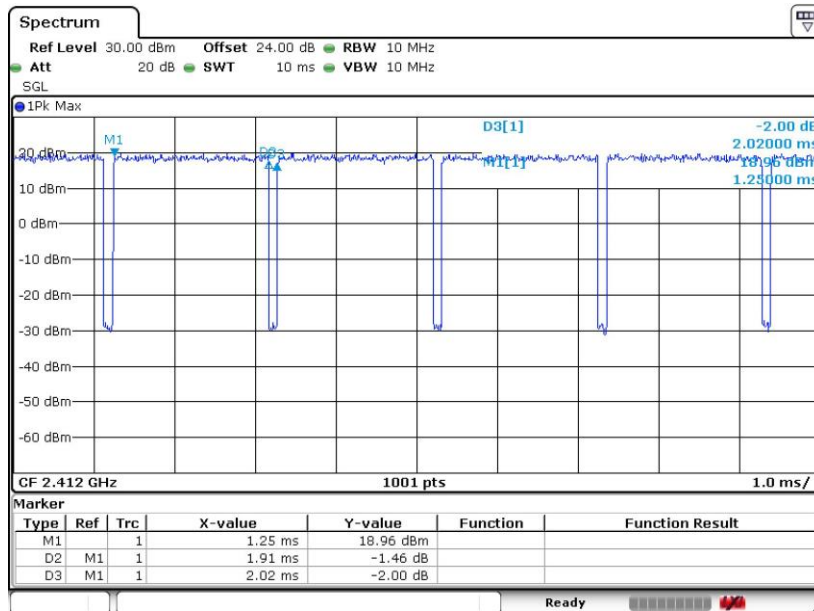


802.11g



Date: 14.SEP.2018 10:04:38

802.11n HT20



Date: 14.SEP.2018 10:05:58

—————THE END—————