



FCC RADIO TEST REPORT

FCC ID : 2AJZA-9266
Equipment : Electronic Display Device
Model Name : PQ948KJ
Applicant : Junker Parts LLC
411 Theodore Fremd Ave, Suite 206, South Rye, New York 10580
Standard : FCC Part 15 Subpart C §15.247

The product was completed on Jul. 17, 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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History of this test report

Report No.	Version	Description	Issued Date
FR791332-01B	01	Initial issue of report	Aug. 08, 2018



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
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
3.6	15.207	AC Conducted Emission	Pass
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass

Reviewed by: Joseph Lin

Report Producer: Natasha Hsieh

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Electronic Display Device
Model Name	PQ948KJ
FCC ID	2AJZA-9266
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE WLAN 11b/g/n HT20 Bluetooth BR/EDR

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2472 MHz
Maximum (Peak) Output Power to antenna	802.11b : 21.32 dBm (0.1355 W) 802.11g : 26.96 dBm (0.4966 W) 802.11n HT20 : 26.80 dBm (0.4786 W)
99% Occupied Bandwidth	802.11b : 14.25 MHz 802.11g : 16.95 MHz 802.11n HT20 : 17.95 MHz
Antenna Type / Gain	Fixed Internal Antenna type with gain 3.23 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.3 Modification of EUT

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

1.4 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.	
	03CH15-HY	

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

1.5 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 v04
- ♦ ANSI C63.10-2013

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

2 Test Configuration of Equipment Under Test

- 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

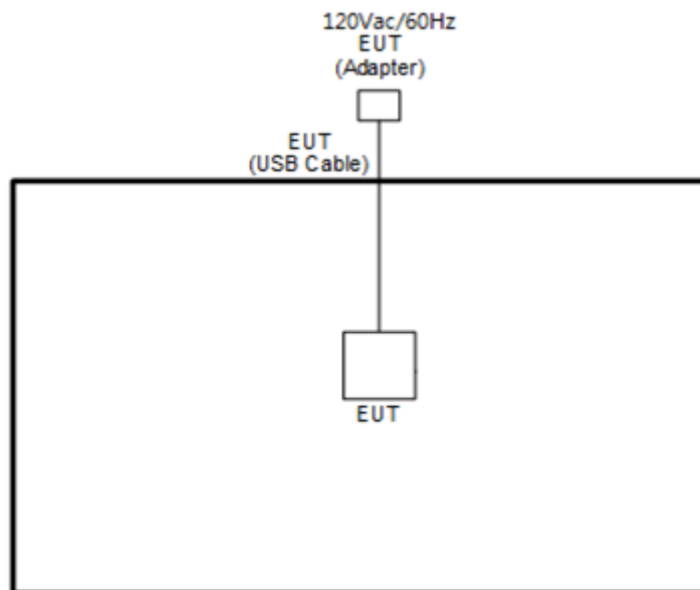
Final test modes are considering the modulation and worse data rates as below table.

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

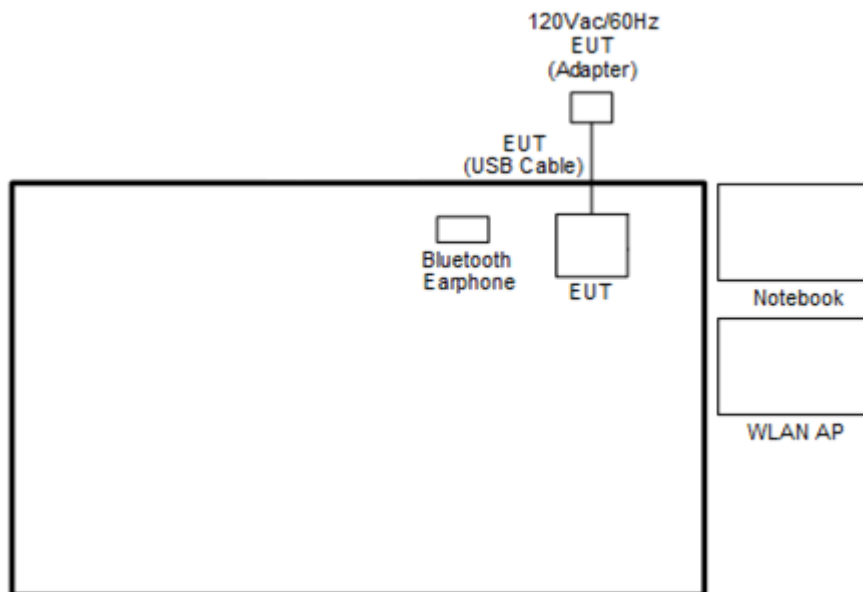
Test Cases	
AC Conducted Emission	Mode 1: WLAN (2.4GHz) Link + Bluetooth Link + USB Cable (Charging from Adapter)

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode for Playing News>



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.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “CMD” 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.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

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.

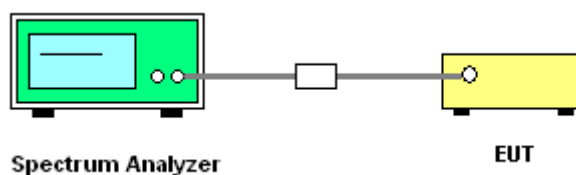
3.1.2 Measuring Instruments

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 v04.
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





3.2 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.

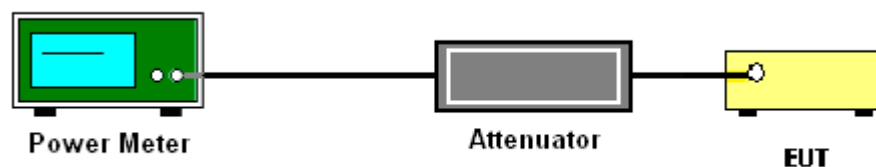
3.2.2 Measuring Instruments

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 v04 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 v04 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.

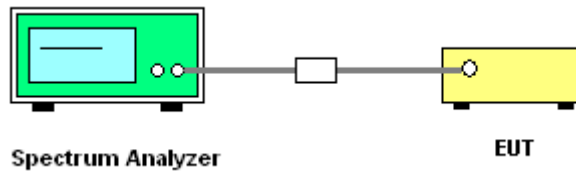
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

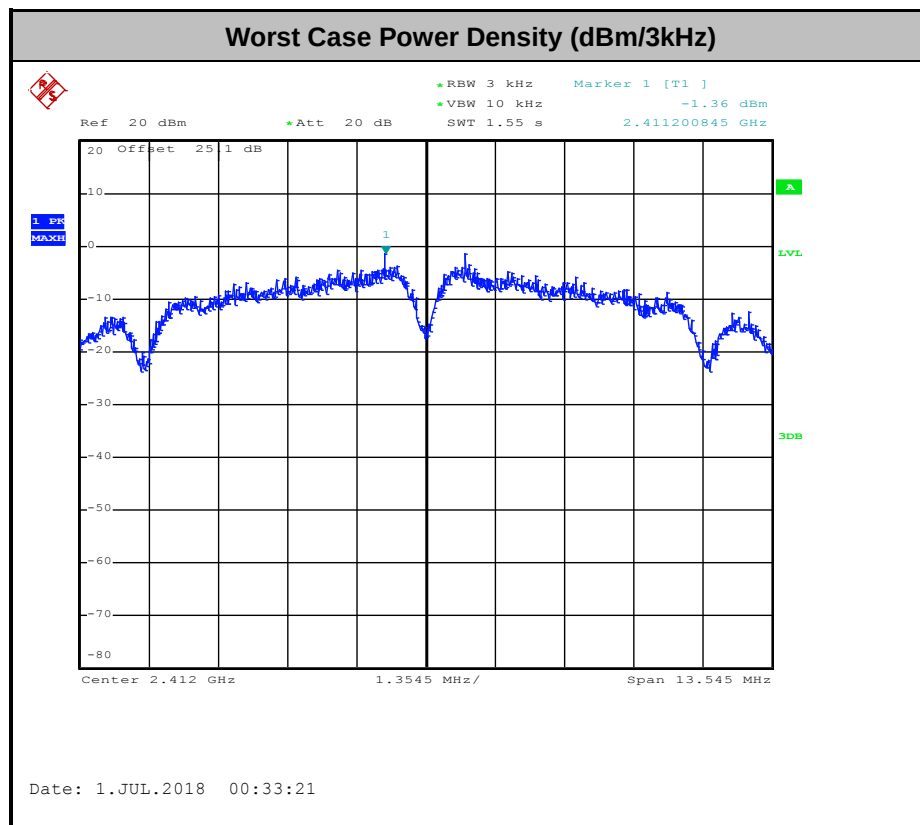
1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum 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.

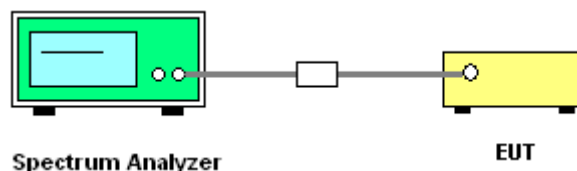
3.4.2 Measuring Instruments

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 v04.
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

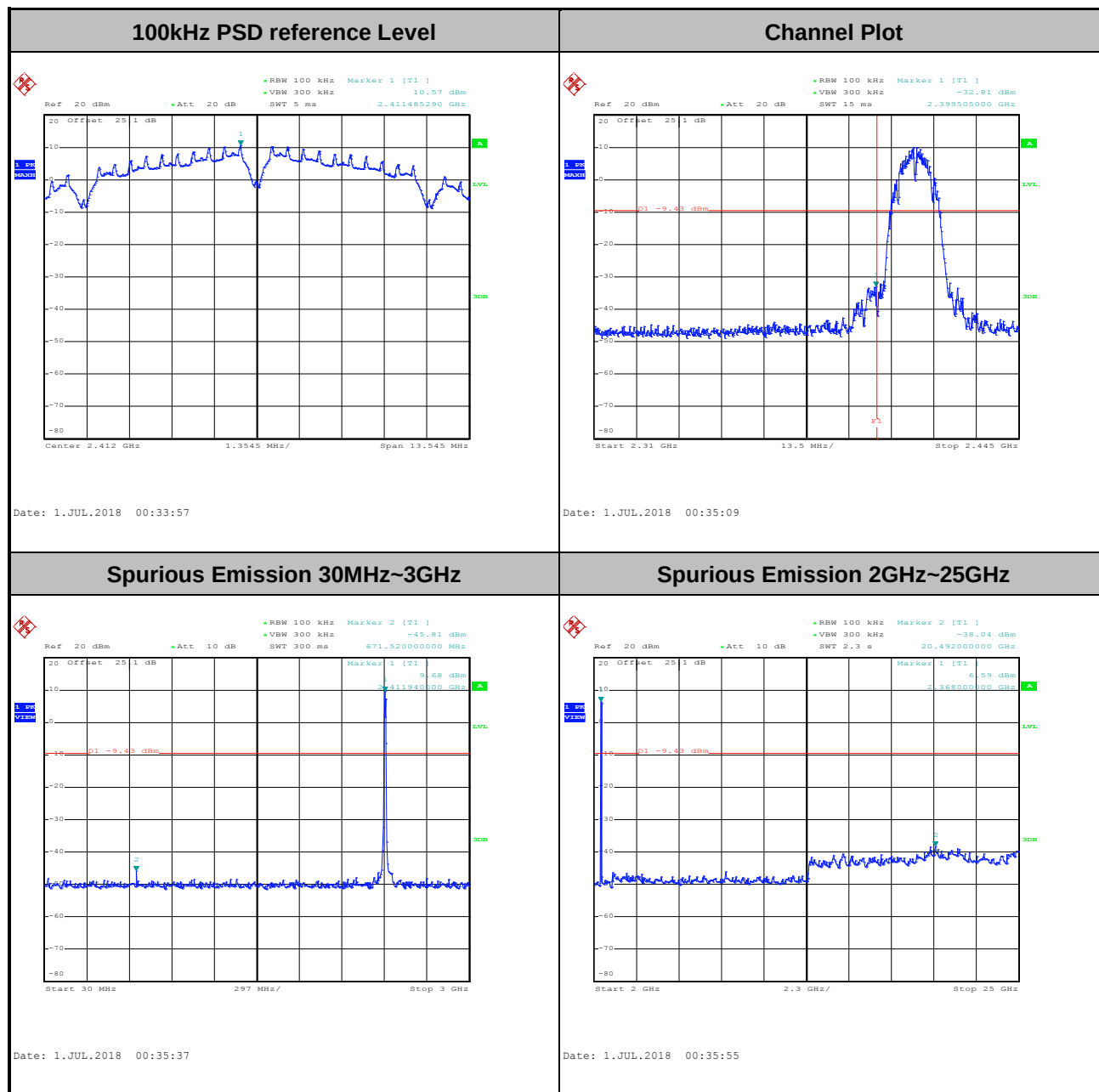




3.4.5 Test Result of Conducted Band Edges and Spurious Emission

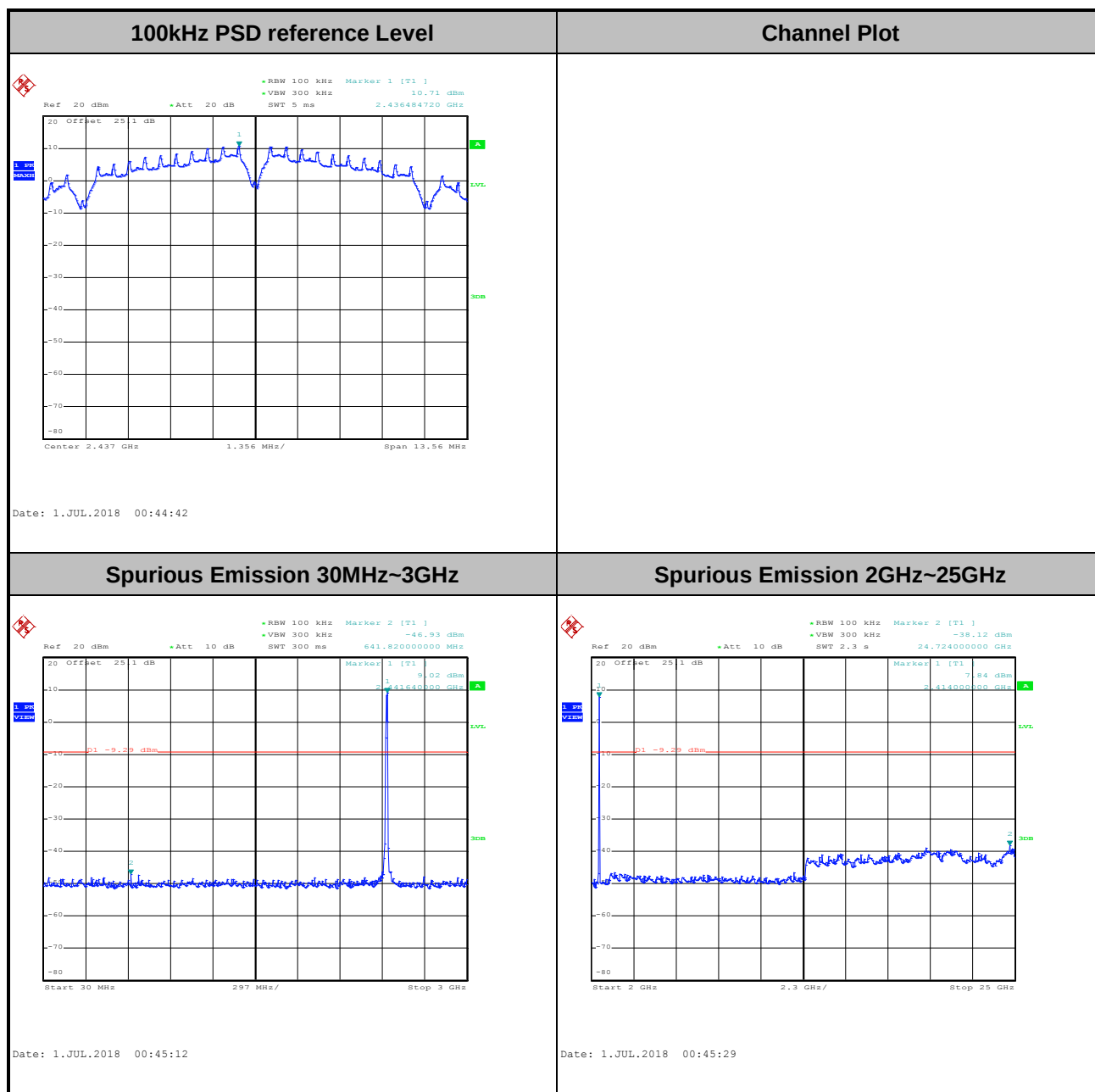
Test Engineer :	Kai Liao	Temperature :	21~25°C
		Relative Humidity :	51~54%

Test Mode :	802.11b	Test Channel :	01
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Test Mode :	802.11b	Test Channel :	06
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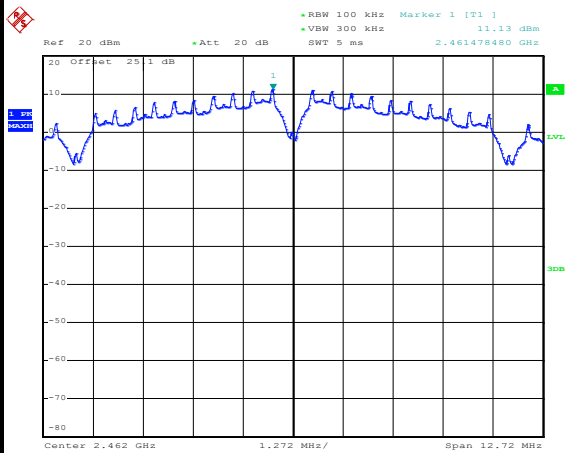




Test Mode : 802.11b

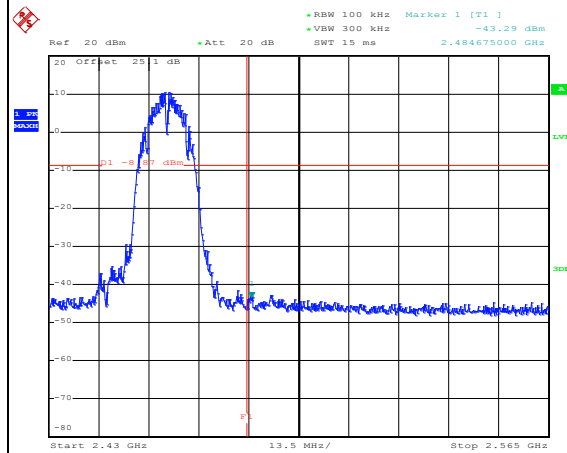
Test Channel : 11

100kHz PSD reference Level



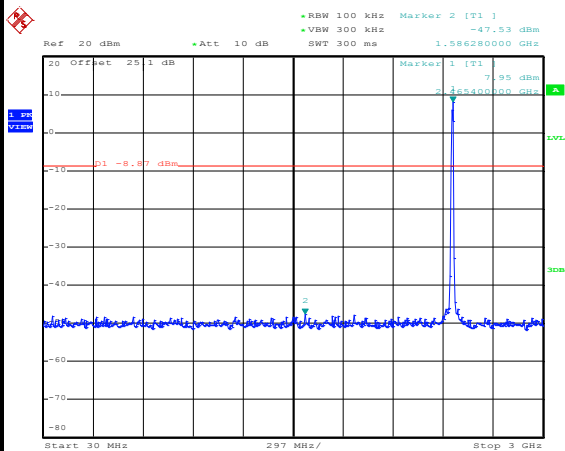
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Channel Plot



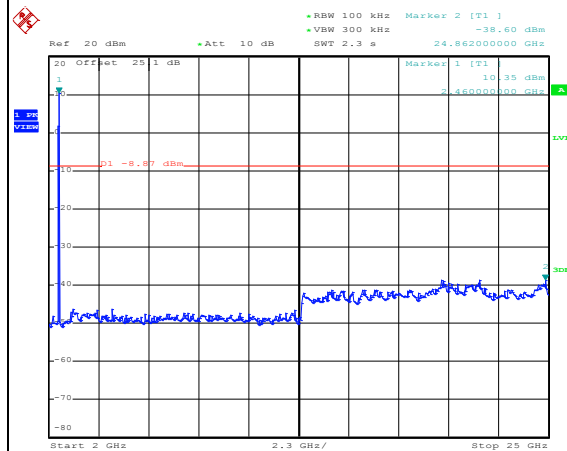
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Spurious Emission 30MHz~3GHz



Date: 1.JUL.2018 00:56:07

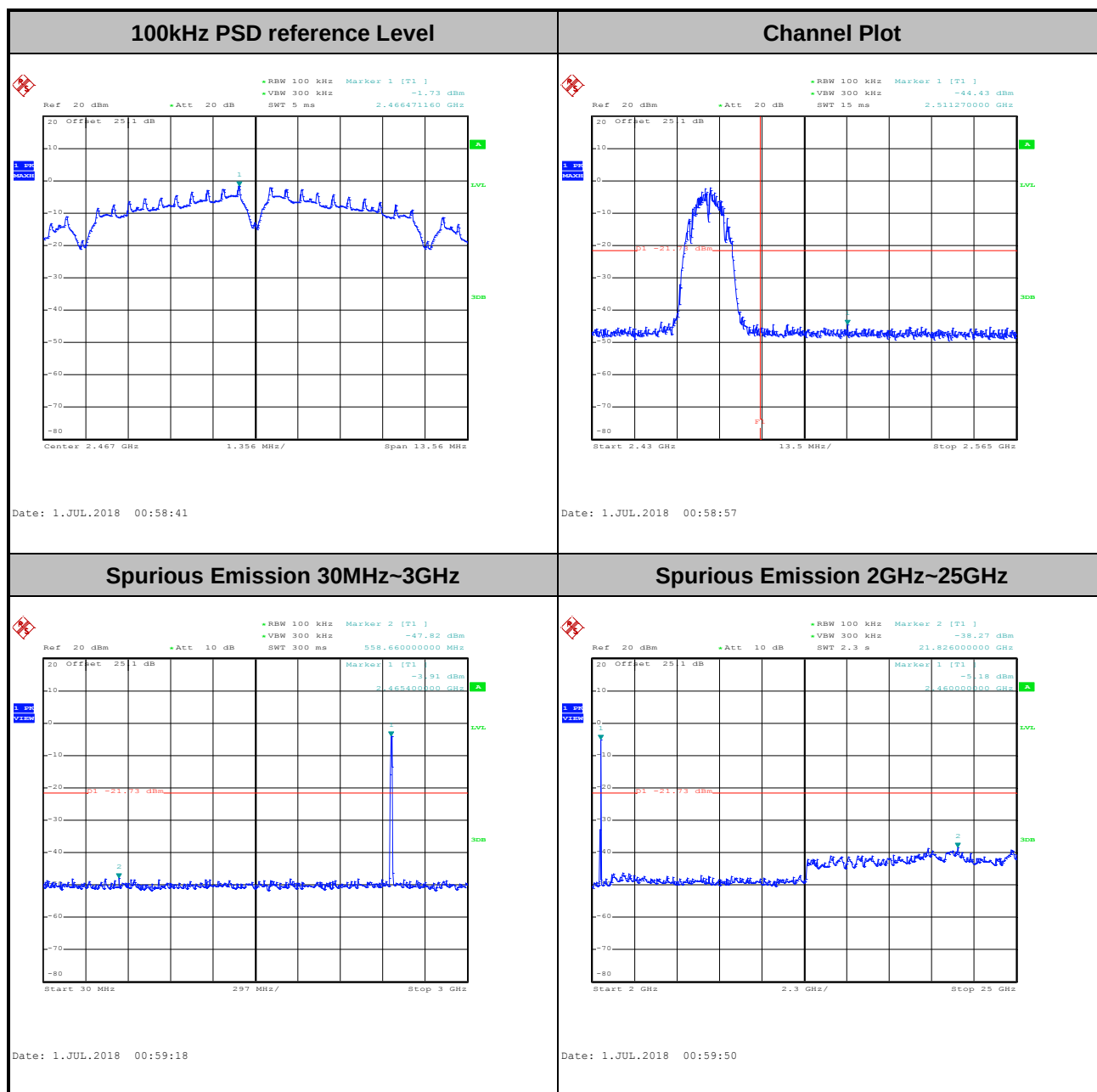
Spurious Emission 2GHz~25GHz



Date: 1.JUL.2018 00:56:22



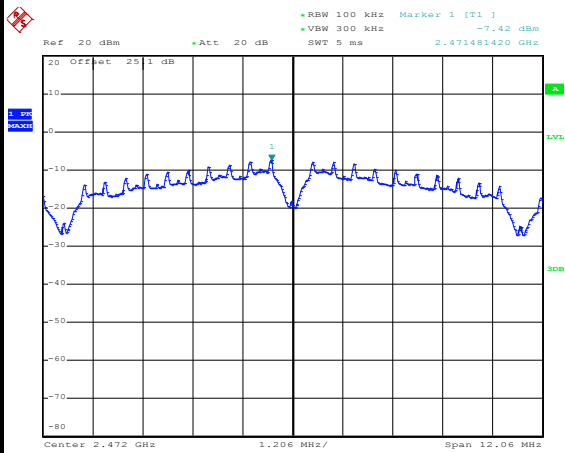
Test Mode :	802.11b	Test Channel :	12
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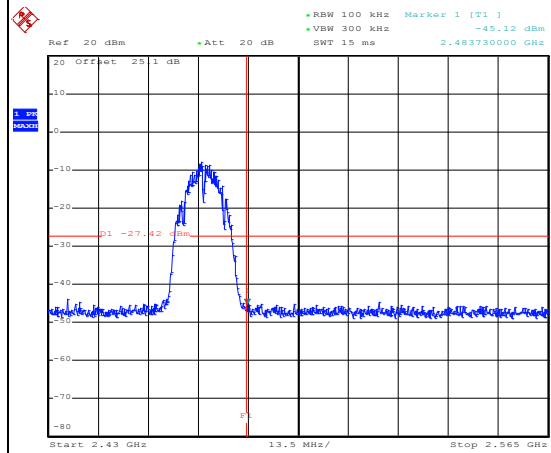
Test Mode :	802.11b	Test Channel :	13
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100kHz PSD reference Level



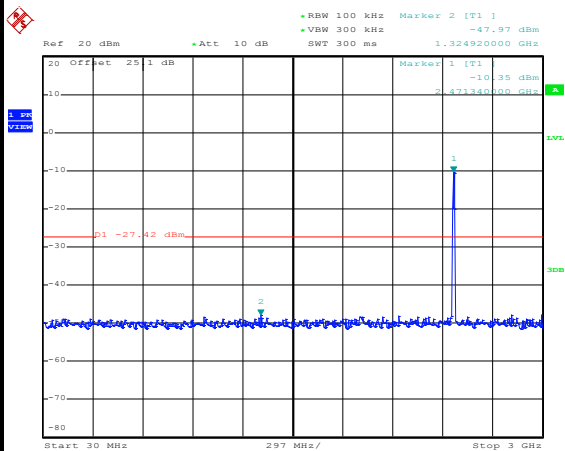
Date: 1.JUL.2018 01:09:16

Channel Plot



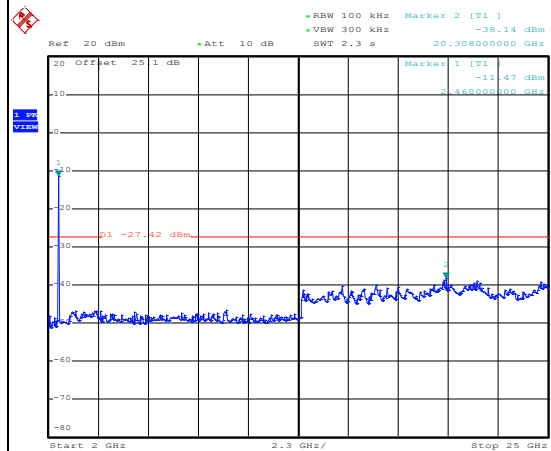
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Spurious Emission 30MHz~3GHz



Date: 1.JUL.2018 01:09:53

Spurious Emission 2GHz~25GHz

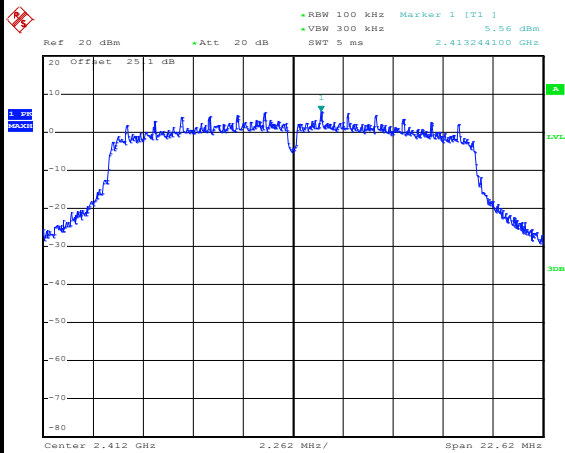


Date: 1.JUL.2018 01:10:07



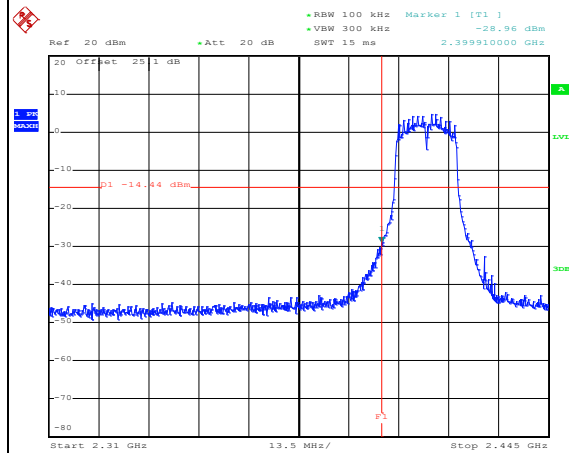
Test Mode :	802.11g	Test Channel :	01
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100kHz PSD reference Level



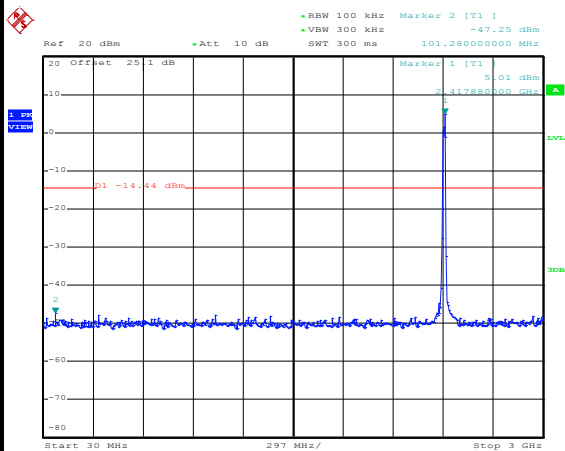
Date: 16.JUL.2018 23:53:09

Channel Plot



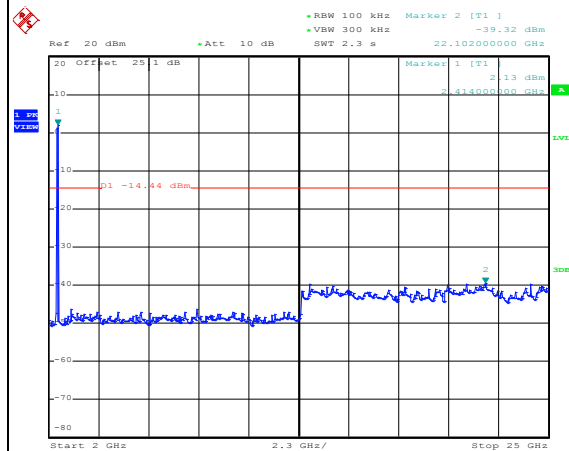
Date: 16.JUL.2018 23:53:42

Spurious Emission 30MHz~3GHz



Date: 16.JUL.2018 23:54:21

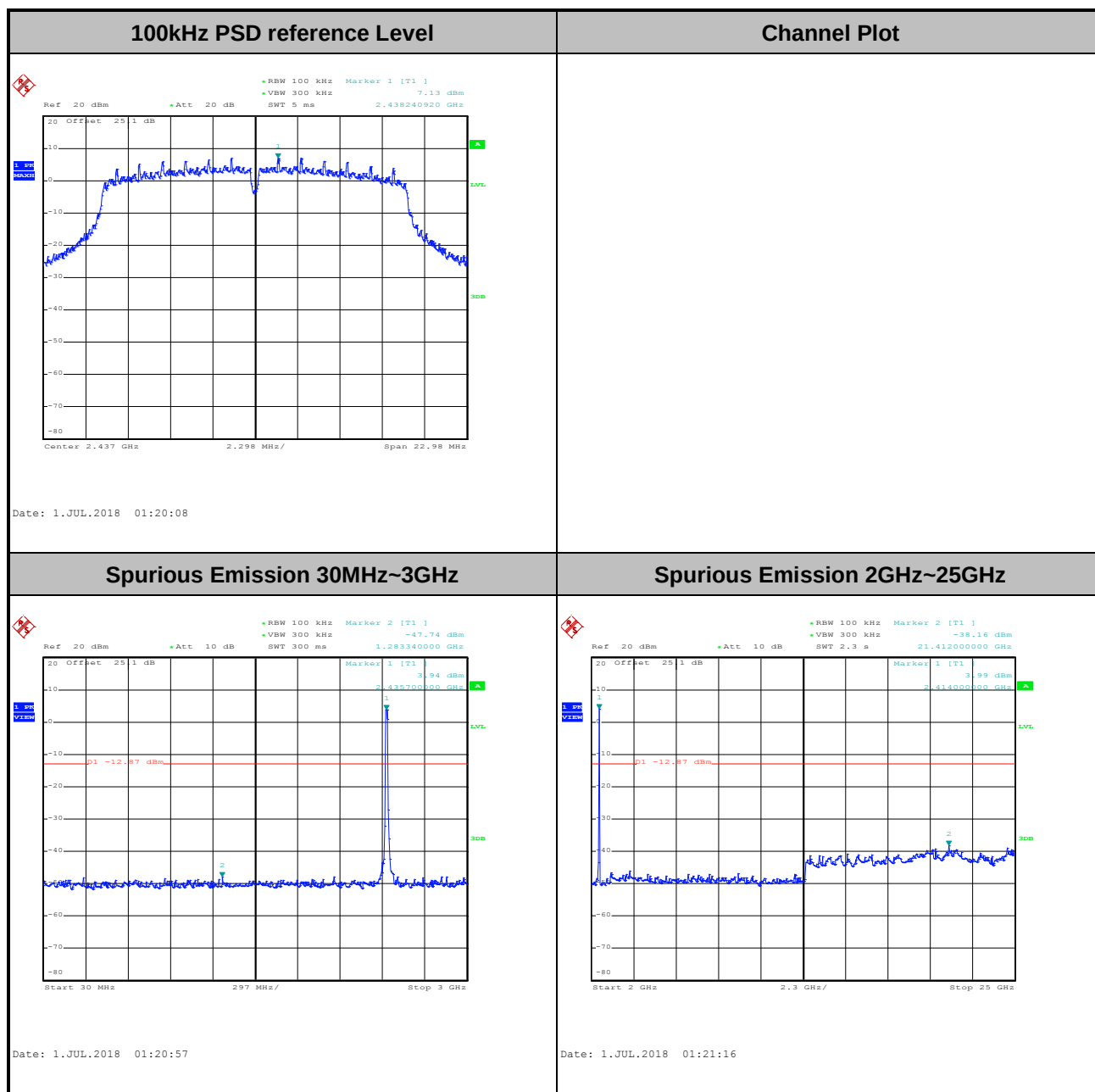
Spurious Emission 2GHz~25GHz



Date: 16.JUL.2018 23:54:39

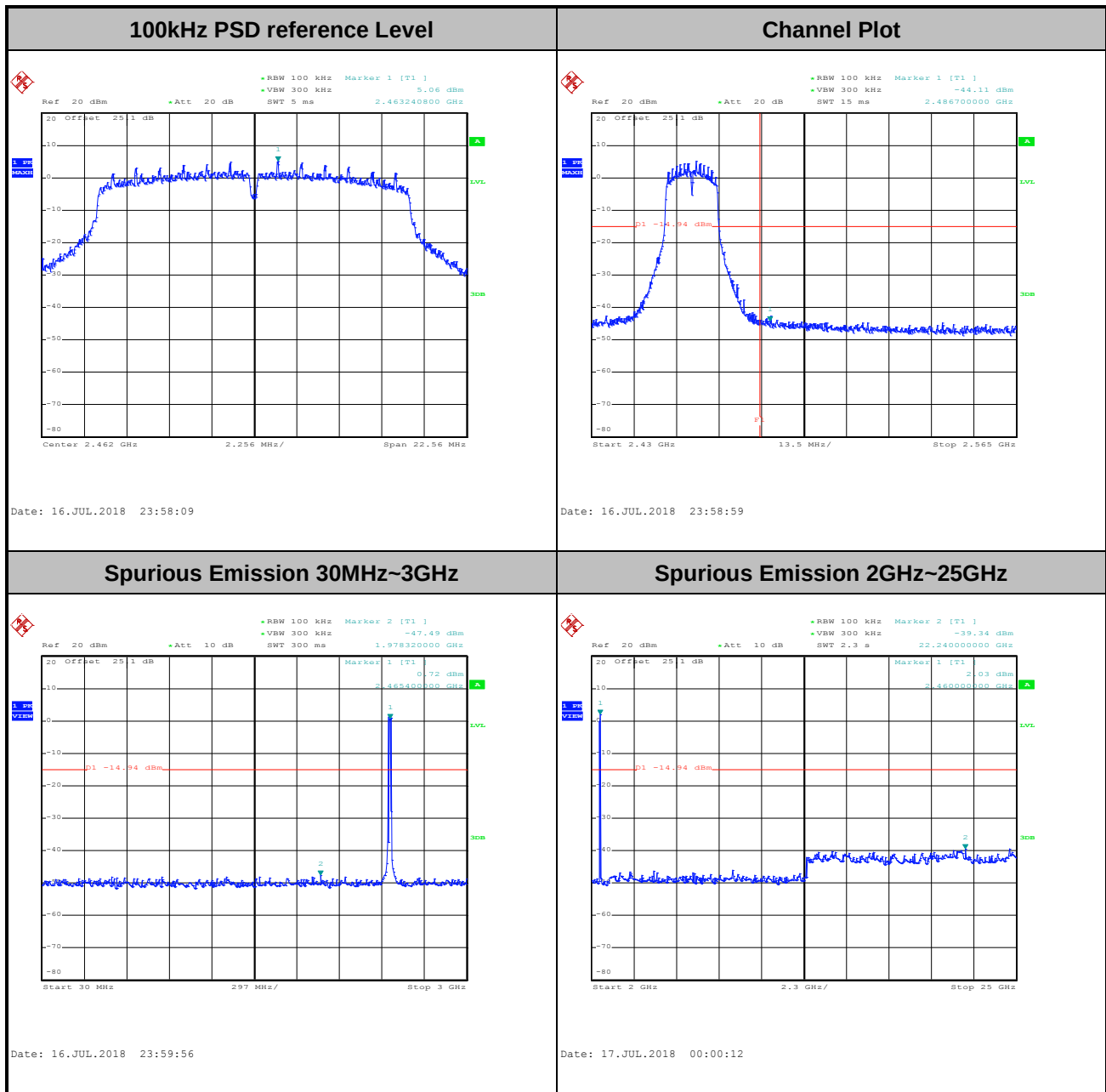


Test Mode :	802.11g	Test Channel :	06
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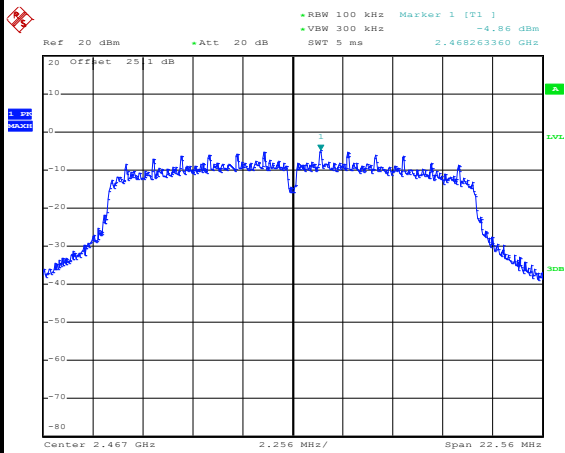
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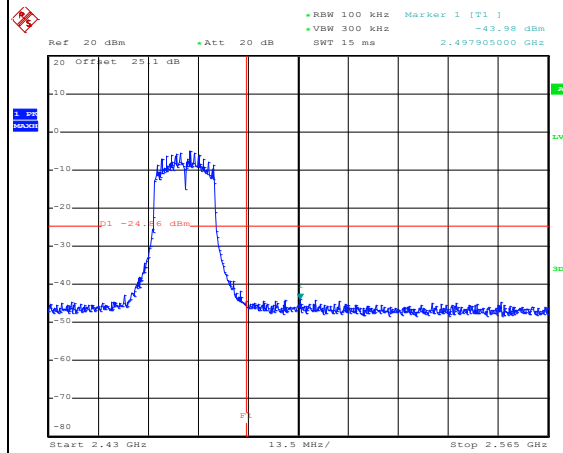
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100kHz PSD reference Level



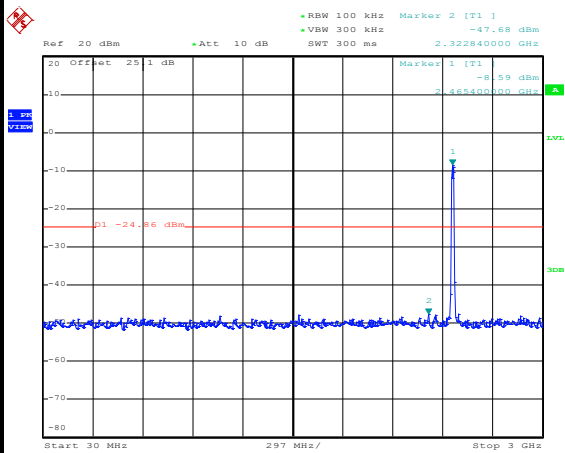
Date: 1.JUL.2018 01:32:01

Channel Plot



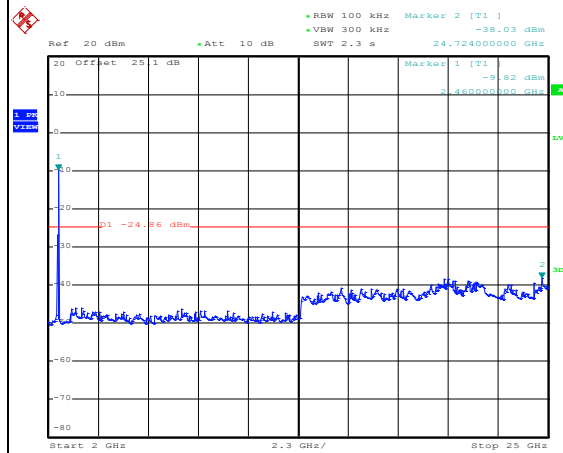
Date: 1.JUL.2018 01:32:36

Spurious Emission 30MHz~3GHz



Date: 1.JUL.2018 01:32:56

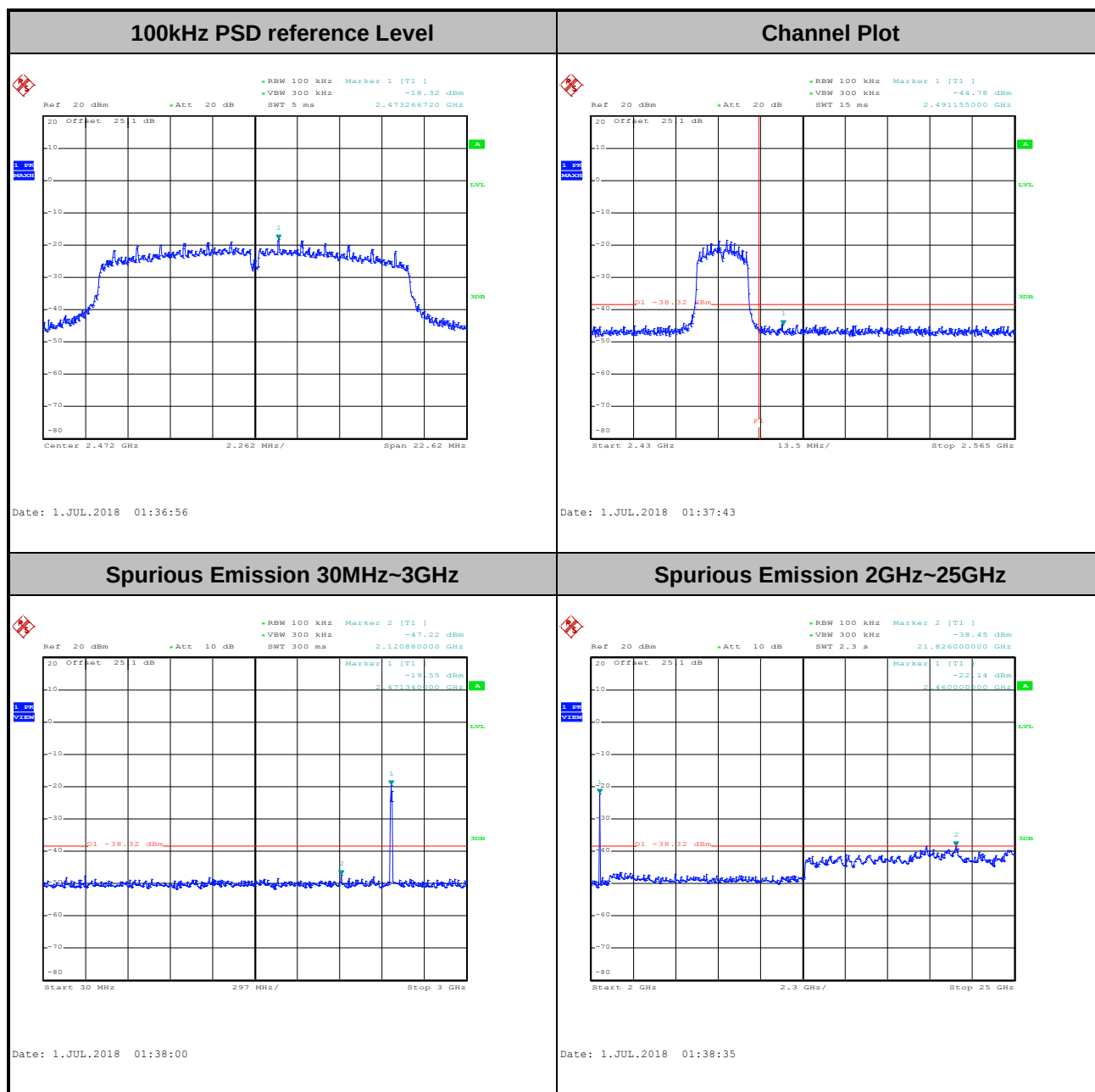
Spurious Emission 2GHz~25GHz



Date: 1.JUL.2018 01:33:11



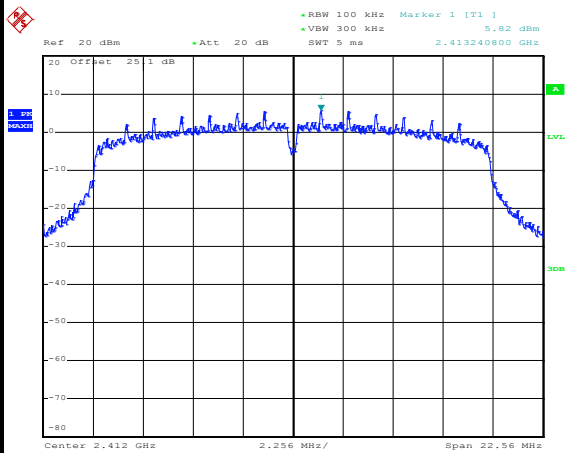
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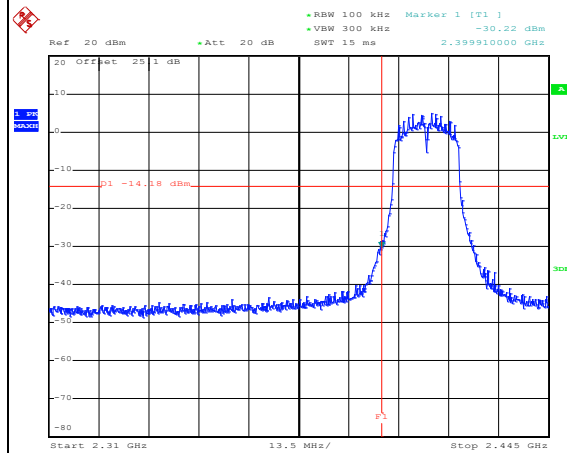
Test Mode :	802.11n HT20	Test Channel :	01
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100kHz PSD reference Level



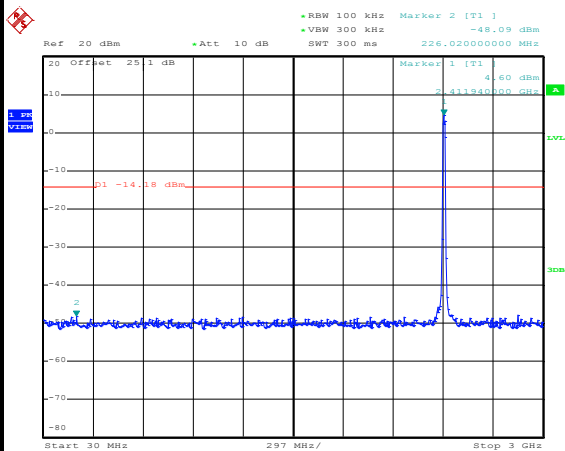
Date: 17.JUL.2018 00:04:18

Channel Plot



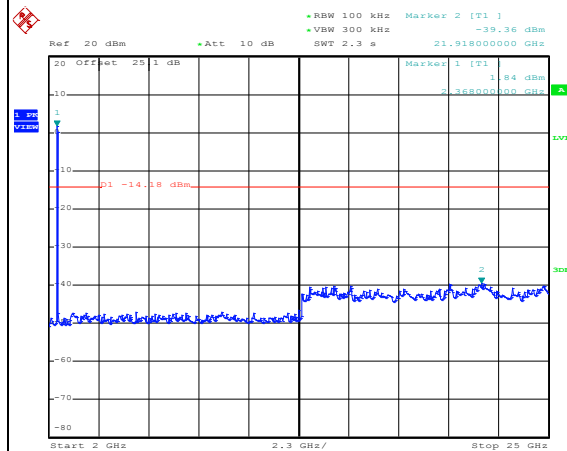
Date: 17.JUL.2018 00:04:51

Spurious Emission 30MHz~3GHz

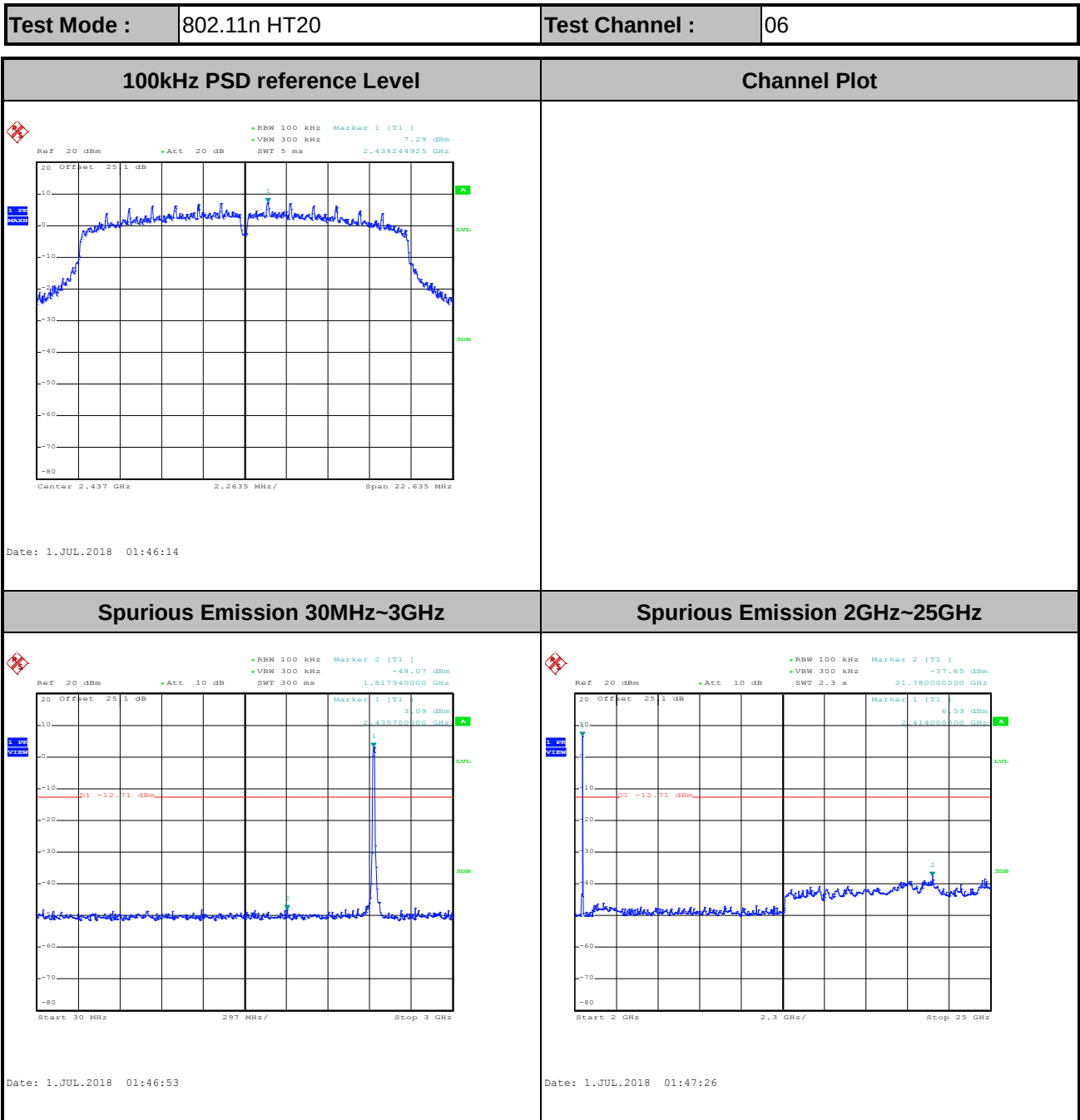


Date: 17.JUL.2018 00:05:18

Spurious Emission 2GHz~25GHz

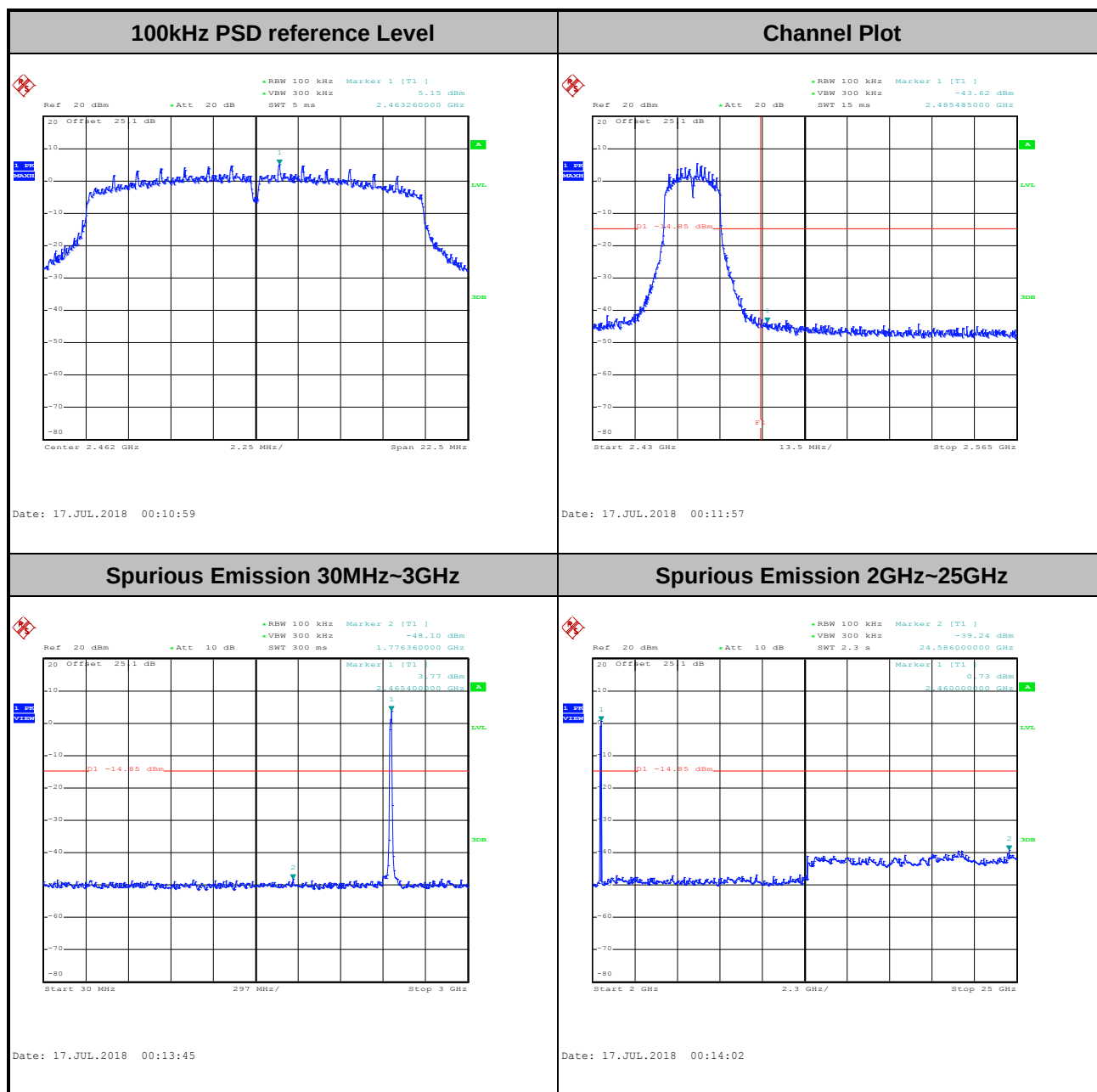


Date: 17.JUL.2018 00:05:35



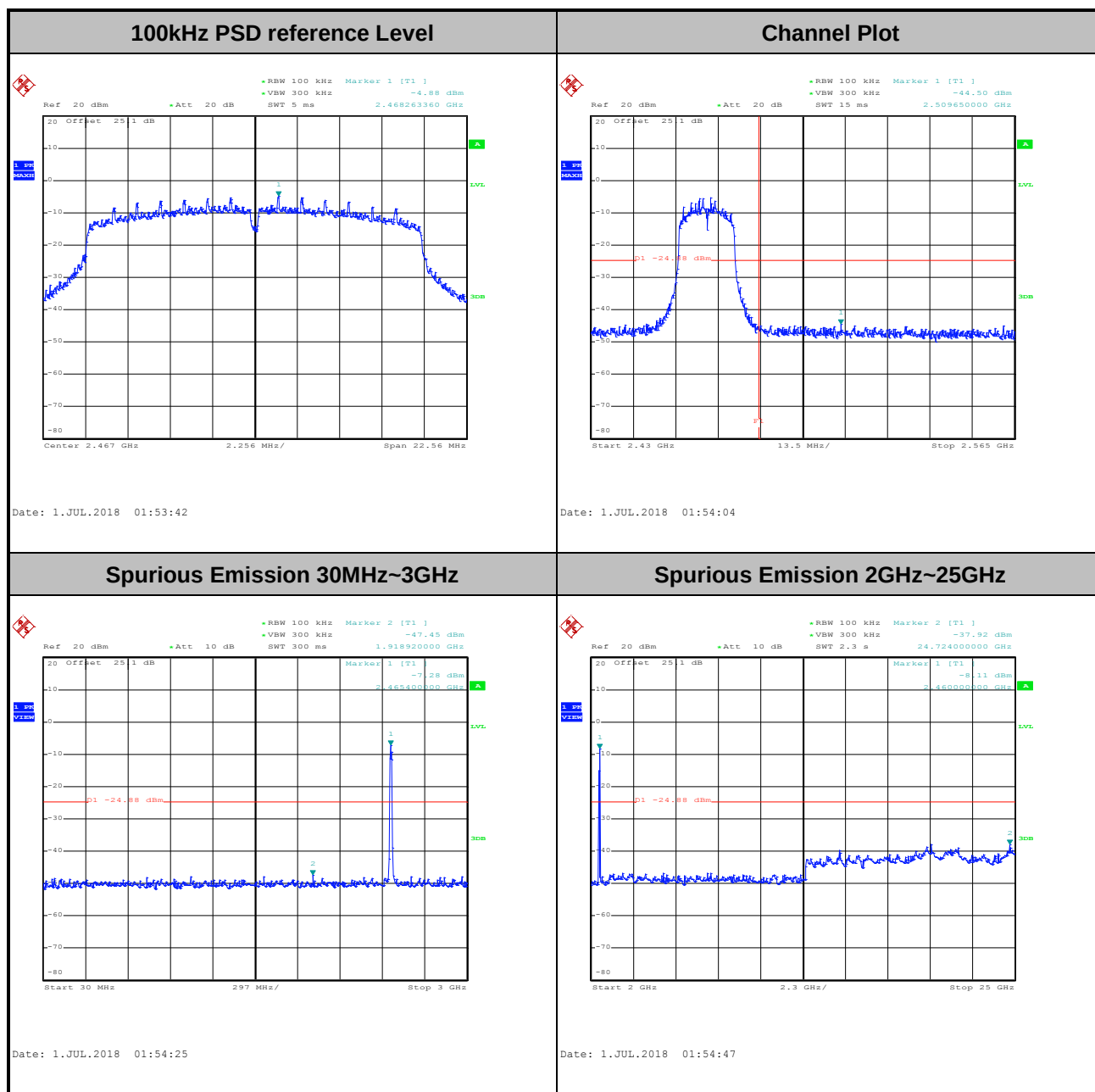


Test Mode :	802.11n HT20	Test Channel :	11
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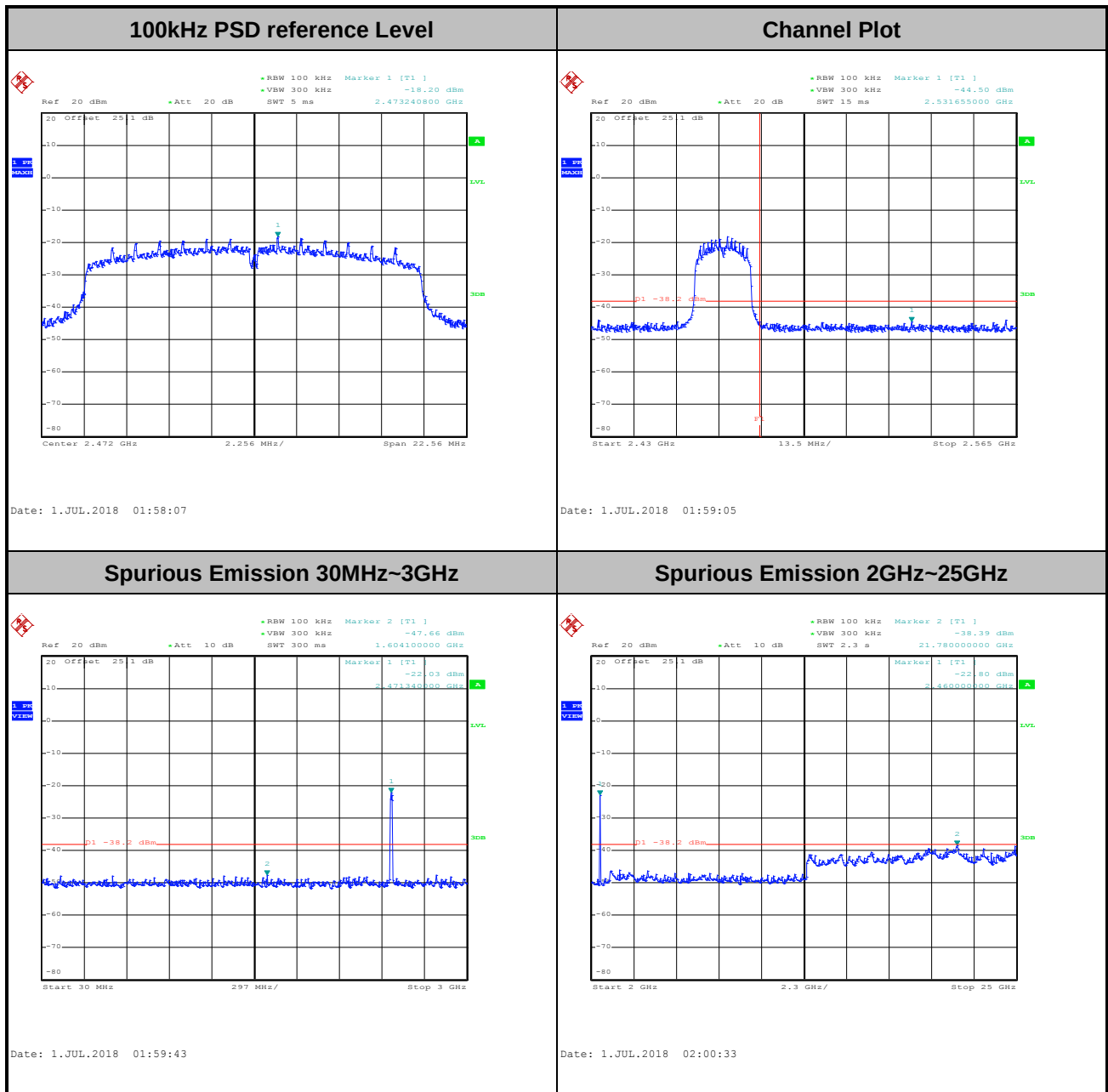


Test Mode :	802.11n HT20	Test Channel :	12
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Test Mode :	802.11n HT20	Test Channel :	13
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3.5 Radiated Band Edges and Spurious Emission Measurement

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

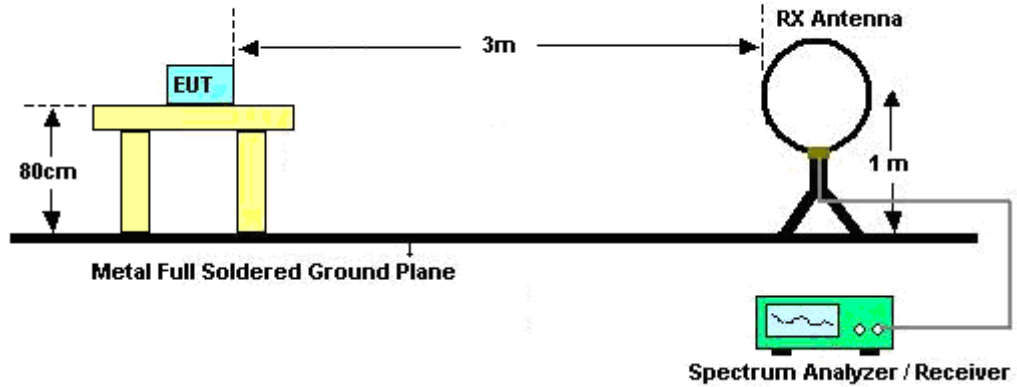
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test 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:

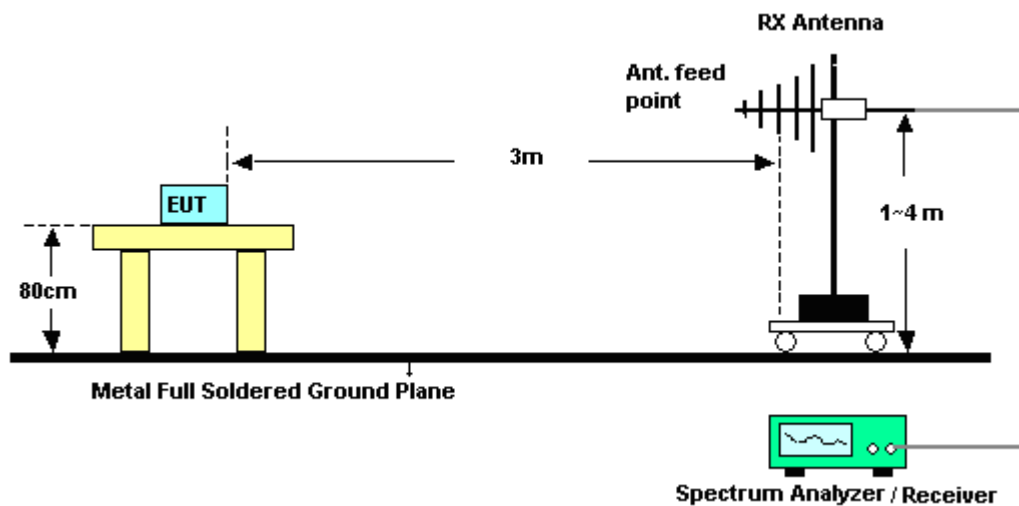
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

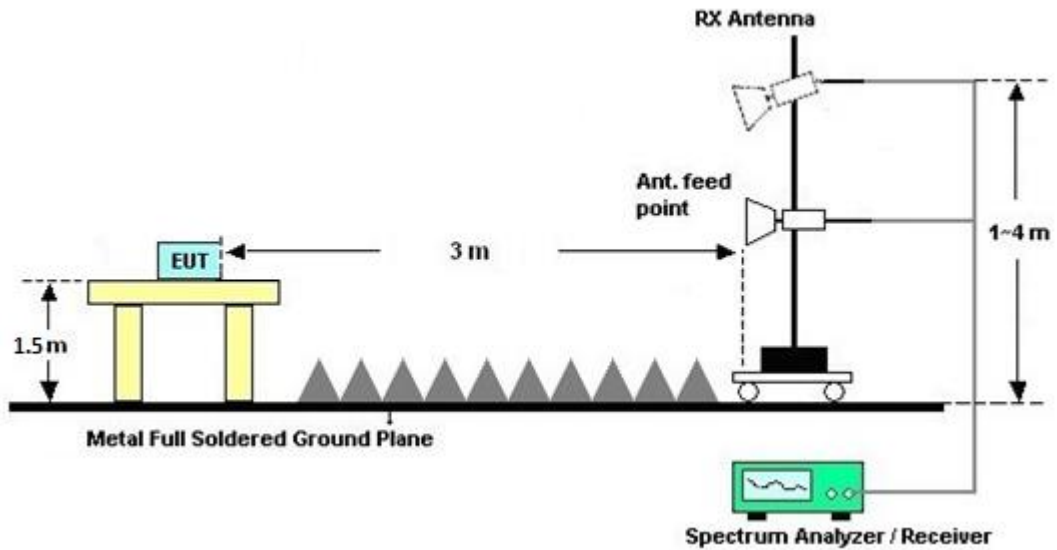
For radiated emissions below 30MHz



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 semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

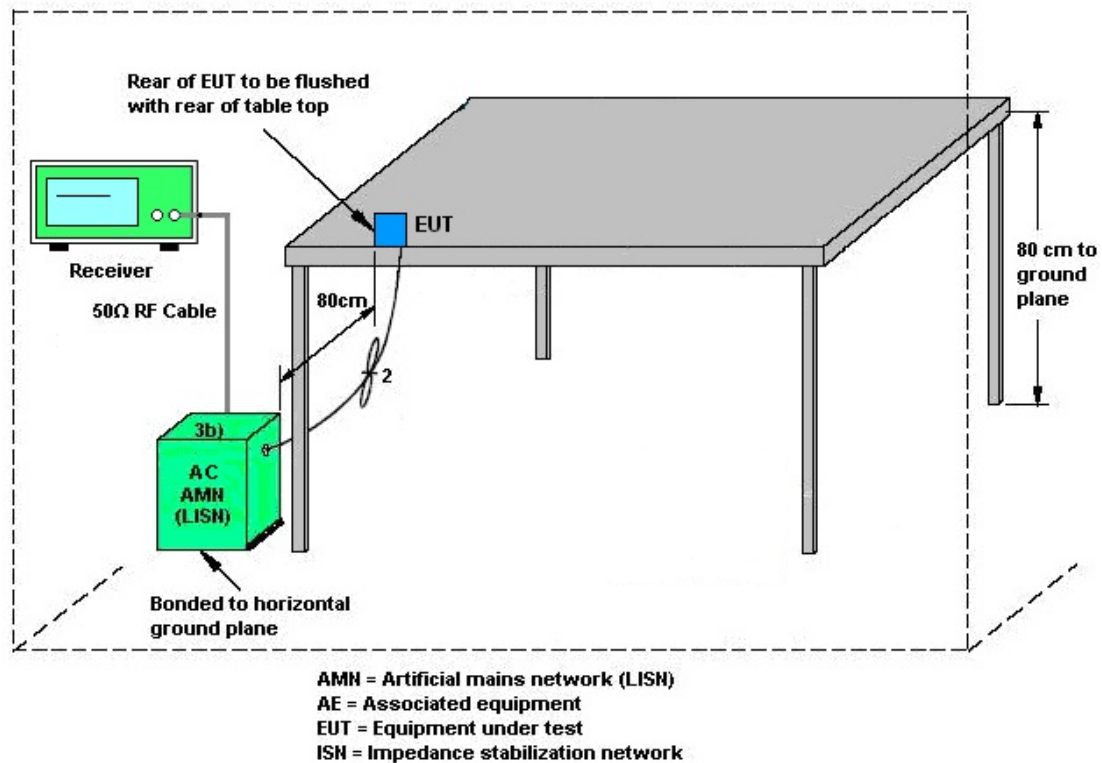
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 26, 2017	Jun. 29, 2018 ~ Jul. 17, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 26, 2017	Jun. 29, 2018 ~ Jul. 17, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2017	Jun. 29, 2018 ~ Jul. 17, 2018	Nov. 20, 2018	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~4A	Oct. 06, 2017	Jun. 29, 2018 ~ Jul. 17, 2018	Oct. 05, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Jun. 29, 2018 ~ Jul. 17, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 26, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Jun. 26, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jun. 26, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 26, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Jun. 26, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Jun. 26, 2018	Jan. 02, 2019	Conduction (CO05-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Jun. 26, 2018 ~ Jul. 13, 2018	Nov. 22, 2018	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0010180 0-30-10P	160118000 2	1GHz~18GHz	Jul. 31, 2017	Jun. 26, 2018 ~ Jul. 13, 2018	Jul. 30, 2018	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 26, 2017	Jun. 26, 2018 ~ Jul. 13, 2018	Dec. 25, 2018	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D& 00800N1D0 1N-06	41912&05	30MHz to 1GHz	Jan. 10, 2018	Jun. 26, 2018 ~ Jul. 13, 2018	Jan. 09, 2019	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY541300 85	20Hz ~ 8.4GHz	Oct. 31, 2017	Jun. 26, 2018 ~ Jul. 13, 2018	Oct. 30, 2018	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-162 0	1G~18GHz	Oct. 03, 2017	Jun. 26, 2018 ~ Jul. 13, 2018	Oct. 02, 2018	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY532701 95	1GHz~26.5GHz	Aug. 21, 2017	Jun. 26, 2018 ~ Jul. 13, 2018	Aug. 20, 2018	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY501801 36	3Hz~44GHz	Apr. 25, 2018	Jun. 26, 2018 ~ Jul. 13, 2018	Apr. 24, 2019	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jun. 26, 2018 ~ Jul. 13, 2018	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jun. 26, 2018 ~ Jul. 13, 2018	N/A	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Nov. 27, 2017	Jun. 26, 2018 ~ Jul. 13, 2018	Nov. 26, 2018	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24	RK-00104 2	N/A	N/A	Jun. 26, 2018 ~ Jul. 13, 2018	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER / MTJ Cooperation	SUCOFLEX 104 / 000000-MT1 8A-100	MY36980/ 4, MY9838/4 PE, D3210	30MHz~1GHz	Mar. 15, 2018	Jun. 26, 2018 ~ Jul. 13, 2018	Mar. 14, 2019	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER / MTJ Cooperation	SUCOFLEX 104 / 000000-MT1 8A-100	MY36980/ 4, MY9838/4 PE, D3210	1GHz~18GHz	Mar. 15, 2018	Jun. 26, 2018 ~ Jul. 13, 2018	Mar. 14, 2019	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	Jun. 26, 2018 ~ Jul. 13, 2018	Oct. 16, 2018	Radiation (03CH15-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.7
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kai Liao	Temperature:	21~25	°C
Test Date:	2018/6/29 ~ 2018/7/17	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	14.05	-	9.03	-	0.50	Pass
11b	1Mbps	1	6	2437	14.05	-	9.04	-	0.50	Pass
11b	1Mbps	1	11	2462	14.00	-	8.48	-	0.50	Pass
11b	1Mbps	1	12	2467	14.05	-	9.04	-	0.50	Pass
11b	1Mbps	1	13	2472	14.25	-	8.04	-	0.50	Pass
11g	6Mbps	1	1	2412	16.45	-	15.08	-	0.50	Pass
11g	6Mbps	1	6	2437	16.50	-	15.32	-	0.50	Pass
11g	6Mbps	1	11	2462	16.50	-	15.04	-	0.50	Pass
11g	6Mbps	1	12	2467	16.50	-	15.04	-	0.50	Pass
11g	6Mbps	1	13	2472	16.95	-	15.08	-	0.50	Pass
HT20	MCS0	1	1	2412	17.55	-	15.04	-	0.50	Pass
HT20	MCS0	1	6	2437	17.60	-	15.09	-	0.50	Pass
HT20	MCS0	1	11	2462	17.60	-	15.00	-	0.50	Pass
HT20	MCS0	1	12	2467	17.60	-	15.04	-	0.50	Pass
HT20	MCS0	1	13	2472	17.95	-	15.04	-	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band																
Mod.	Data Rate	N _{TX}	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	21.16	-	-	30.00	-	3.23	-	24.39	-	36.00	-	Pass
11b	1Mbps	1	6	2437	21.32	-	-	30.00	-	3.23	-	24.55	-	36.00	-	Pass
11b	1Mbps	1	11	2462	21.25	-	-	30.00	-	3.23	-	24.48	-	36.00	-	Pass
11b	1Mbps	1	12	2467	10.67	-	-	30.00	-	3.23	-	13.90	-	36.00	-	Pass
11b	1Mbps	1	13	2472	7.00	-	-	30.00	-	3.23	-	10.23	-	36.00	-	Pass
11g	6Mbps	1	1	2412	25.61	-	-	30.00	-	3.23	-	28.84	-	36.00	-	Pass
11g	6Mbps	1	6	2437	26.96	-	-	30.00	-	3.23	-	30.19	-	36.00	-	Pass
11g	6Mbps	1	11	2462	25.80	-	-	30.00	-	3.23	-	29.03	-	36.00	-	Pass
11g	6Mbps	1	12	2467	16.64	-	-	30.00	-	3.23	-	19.87	-	36.00	-	Pass
11g	6Mbps	1	13	2472	6.16	-	-	30.00	-	3.23	-	9.39	-	36.00	-	Pass
HT20	MCS0	1	1	2412	25.94	-	-	30.00	-	3.23	-	29.17	-	36.00	-	Pass
HT20	MCS0	1	6	2437	26.80	-	-	30.00	-	3.23	-	30.03	-	36.00	-	Pass
HT20	MCS0	1	11	2462	25.72	-	-	30.00	-	3.23	-	28.95	-	36.00	-	Pass
HT20	MCS0	1	12	2467	16.82	-	-	30.00	-	3.23	-	20.05	-	36.00	-	Pass
HT20	MCS0	1	13	2472	5.26	-	-	30.00	-	3.23	-	8.49	-	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	0.00	-	18.75	-	-
11b	1Mbps	1	6	2437	0.00	-	18.89	-	
11b	1Mbps	1	11	2462	0.00	-	18.88	-	
11b	1Mbps	1	12	2467	0.00	-	6.26	-	
11b	1Mbps	1	13	2472	0.00	-	0.70	-	
11g	6Mbps	1	1	2412	0.29	-	16.01	-	
11g	6Mbps	1	6	2437	0.29	-	17.99	-	
11g	6Mbps	1	11	2462	0.29	-	15.61	-	
11g	6Mbps	1	12	2467	0.29	-	5.68	-	
11g	6Mbps	1	13	2472	0.29	-	-4.90	-	
HT20	MCS0	1	1	2412	0.29	-	15.82	-	
HT20	MCS0	1	6	2437	0.29	-	17.80	-	
HT20	MCS0	1	11	2462	0.29	-	15.54	-	
HT20	MCS0	1	12	2467	0.29	-	5.69	-	
HT20	MCS0	1	13	2472	0.29	-	-5.06	-	

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	-1.36	-	-	3.23	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-2.51	-	-	3.23	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-2.61	-	-	3.23	-	8.00	-	Pass
11b	1Mbps	1	12	2467	-17.03	-	-	3.23	-	8.00	-	Pass
11b	1Mbps	1	13	2472	-21.08	-	-	3.23	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-8.86	-	-	3.23	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-7.70	-	-	3.23	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-9.21	-	-	3.23	-	8.00	-	Pass
11g	6Mbps	1	12	2467	-18.53	-	-	3.23	-	8.00	-	Pass
11g	6Mbps	1	13	2472	-30.80	-	-	3.23	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-9.88	-	-	3.23	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-6.70	-	-	3.23	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-10.12	-	-	3.23	-	8.00	-	Pass
HT20	MCS0	1	12	2467	-18.51	-	-	3.23	-	8.00	-	Pass
HT20	MCS0	1	13	2472	-30.42	-	-	3.23	-	8.00	-	Pass

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



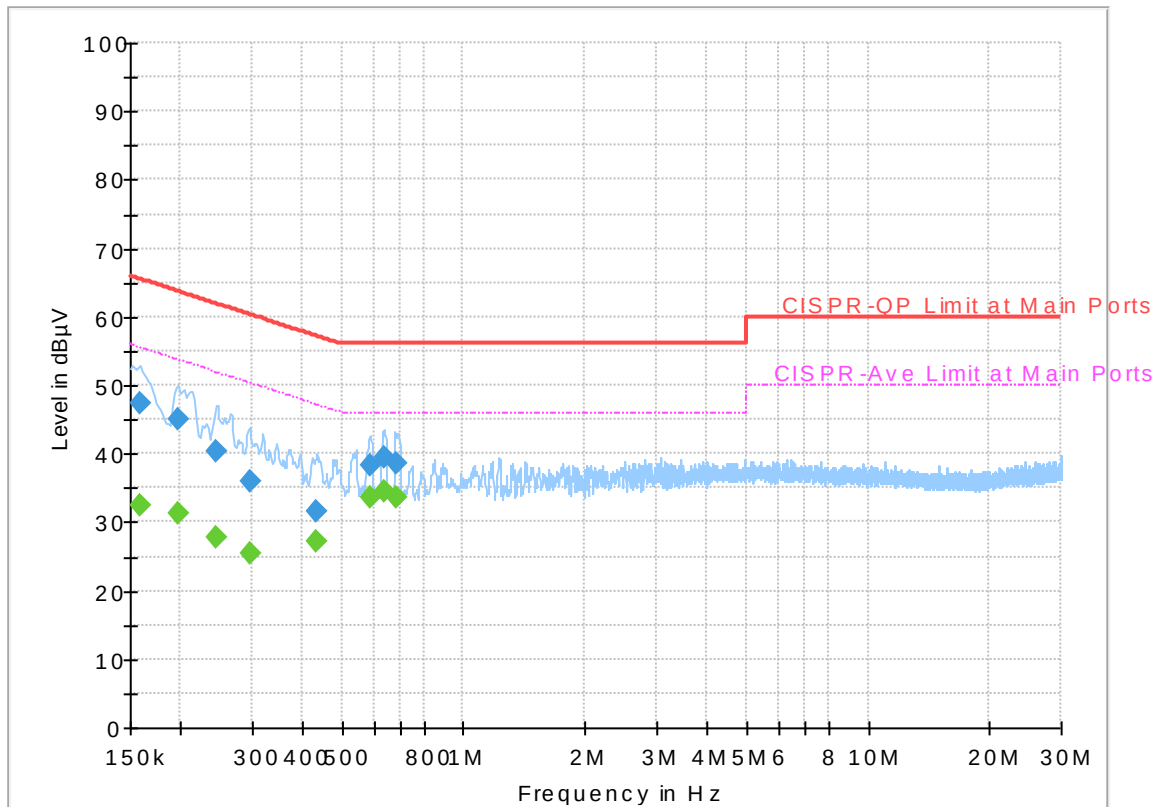
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Kai- Chun Chu	Temperature :	25~27°C
		Relative Humidity :	50~52%

EUT Information

Report NO : 791332-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



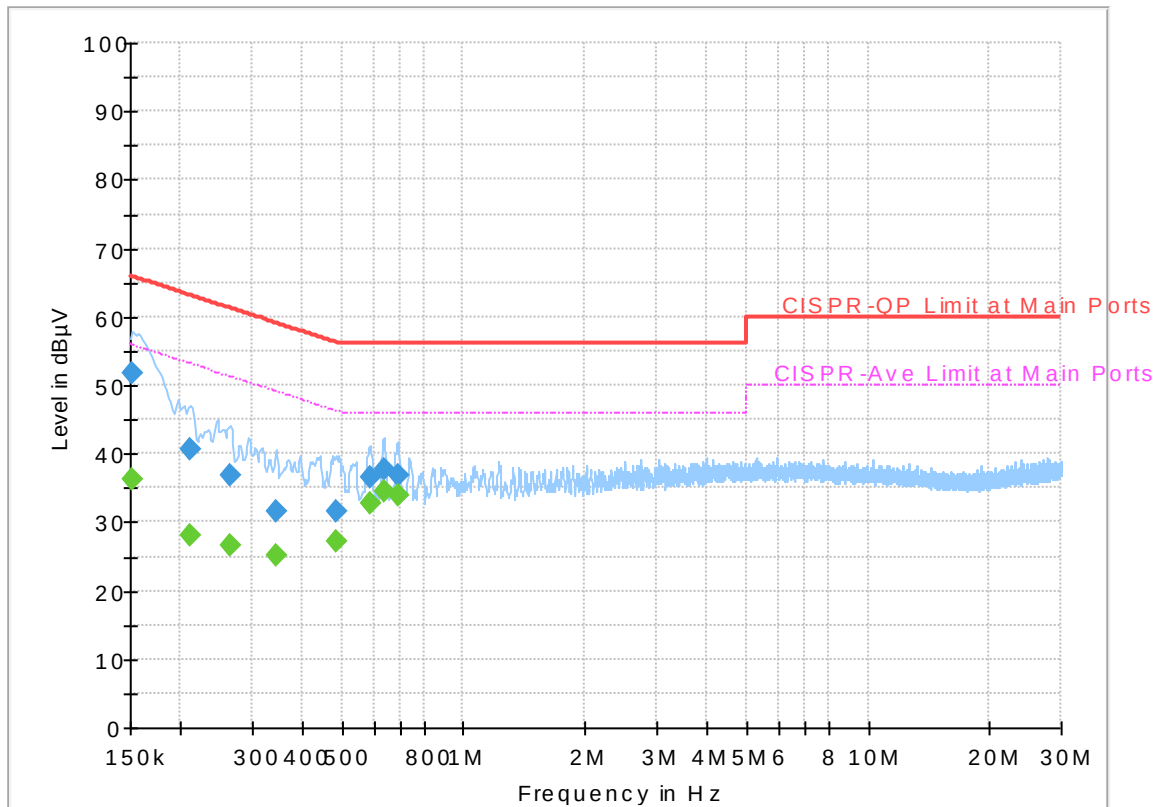
Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	32.49	55.52	23.03	L1	OFF	19.5
0.159000	47.31	---	65.52	18.21	L1	OFF	19.5
0.197250	---	31.38	53.73	22.35	L1	OFF	19.5
0.197250	45.14	---	63.73	18.59	L1	OFF	19.5
0.244500	---	27.67	51.94	24.27	L1	OFF	19.5
0.244500	40.22	---	61.94	21.72	L1	OFF	19.5
0.296250	---	25.44	50.35	24.91	L1	OFF	19.5
0.296250	35.97	---	60.35	24.38	L1	OFF	19.5
0.433500	---	27.18	47.19	20.01	L1	OFF	19.5
0.433500	31.57	---	57.19	25.62	L1	OFF	19.5
0.586500	---	33.55	46.00	12.45	L1	OFF	19.5
0.586500	38.36	---	56.00	17.64	L1	OFF	19.5
0.636000	---	34.50	46.00	11.50	L1	OFF	19.6
0.636000	39.59	---	56.00	16.41	L1	OFF	19.6
0.685500	---	33.60	46.00	12.40	L1	OFF	19.6
0.685500	38.69	---	56.00	17.31	L1	OFF	19.6

EUT Information

Report NO : 791332-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	36.18	55.88	19.70	N	OFF	19.5
0.152250	51.70	---	65.88	14.18	N	OFF	19.5
0.210750	---	28.04	53.18	25.14	N	OFF	19.5
0.210750	40.65	---	63.18	22.53	N	OFF	19.5
0.264750	---	26.72	51.28	24.56	N	OFF	19.5
0.264750	36.83	---	61.28	24.45	N	OFF	19.5
0.343500	---	25.15	49.12	23.97	N	OFF	19.5
0.343500	31.65	---	59.12	27.47	N	OFF	19.5
0.483000	---	27.14	46.29	19.15	N	OFF	19.5
0.483000	31.63	---	56.29	24.66	N	OFF	19.5
0.586500	---	32.80	46.00	13.20	N	OFF	19.5
0.586500	36.62	---	56.00	19.38	N	OFF	19.5
0.636000	---	34.48	46.00	11.52	N	OFF	19.6
0.636000	37.59	---	56.00	18.41	N	OFF	19.6
0.687750	---	34.05	46.00	11.95	N	OFF	19.6
0.687750	36.96	---	56.00	19.04	N	OFF	19.6



Appendix C. Radiated Spurious Emission

Test Engineer :	Bill Chang, Lance Chiang, and Karl Hou	Temperature :	22~26°C
		Relative Humidity :	52~56%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2383.08	57.44	-16.56	74	45.28	27.26	15.76	30.86	320	51	P	H
		2384.655	48.69	-5.31	54	36.52	27.26	15.77	30.86	320	51	A	H
	*	2412	112.72	-	-	100.4	27.36	15.81	30.85	320	51	P	H
	*	2412	109.53	-	-	97.21	27.36	15.81	30.85	320	51	A	H
		2372.16	54.31	-19.69	74	42.16	27.26	15.75	30.86	100	258	P	V
		2384.865	45.72	-8.28	54	33.55	27.26	15.77	30.86	100	258	A	V
	*	2412	108.58	-	-	96.26	27.36	15.81	30.85	100	258	P	V
	*	2412	105.43	-	-	93.11	27.36	15.81	30.85	100	258	A	V
802.11b CH 06 2437MHz		2387	55.1	-18.9	74	42.88	27.31	15.77	30.86	349	51	P	H
		2384.34	46.56	-7.44	54	34.39	27.26	15.77	30.86	349	51	A	H
	*	2437	112.34	-	-	99.88	27.46	15.84	30.84	349	51	P	H
	*	2437	109.08	-	-	96.62	27.46	15.84	30.84	349	51	A	H
		2493	56.23	-17.77	74	43.52	27.6	15.92	30.81	349	51	P	H
		2492.58	47.27	-6.73	54	34.56	27.6	15.92	30.81	349	51	A	H
		2386.58	53.76	-20.24	74	41.54	27.31	15.77	30.86	113	261	P	V
		2384.2	45.04	-8.96	54	32.87	27.26	15.77	30.86	113	261	A	V
	*	2437	108.64	-	-	96.18	27.46	15.84	30.84	113	261	P	V
	*	2437	105.57	-	-	93.11	27.46	15.84	30.84	113	261	A	V
		2488.38	55.49	-18.51	74	42.8	27.6	15.91	30.82	113	261	P	V
		2484.88	45.67	-8.33	54	33.03	27.55	15.91	30.82	113	261	A	V



802.11b CH 11 2462MHz	*	2462	113.52	-	-	100.97	27.5	15.88	30.83	342	41	P	H
	*	2462	110.31	-	-	97.76	27.5	15.88	30.83	342	41	A	H
		2495.68	58.83	-15.17	74	46.12	27.6	15.92	30.81	342	41	P	H
		2491.32	50.51	-3.49	54	37.81	27.6	15.92	30.82	342	41	A	H
	*	2462	110.07	-	-	97.52	27.5	15.88	30.83	100	75	P	V
	*	2462	106.85	-	-	94.3	27.5	15.88	30.83	100	75	A	V
		2495.6	56.03	-17.97	74	43.32	27.6	15.92	30.81	100	75	P	V
		2491.2	47.39	-6.61	54	34.69	27.6	15.92	30.82	100	75	A	V
802.11b CH 12 2467MHz	*	2467	101.05	-	-	88.49	27.5	15.88	30.82	307	44	P	H
	*	2467	97.87	-	-	85.31	27.5	15.88	30.82	307	44	A	H
		2483.92	57.24	-16.76	74	44.6	27.55	15.91	30.82	307	44	P	H
		2484.08	49.62	-4.38	54	36.98	27.55	15.91	30.82	307	44	A	H
	*	2467	97.78	-	-	85.22	27.5	15.88	30.82	100	75	P	V
	*	2467	94.62	-	-	82.06	27.5	15.88	30.82	100	75	A	V
		2483.72	54.85	-19.15	74	42.21	27.55	15.91	30.82	100	75	P	V
		2485.12	45.92	-8.08	54	33.28	27.55	15.91	30.82	100	75	A	V
802.11b CH 13 2472MHz	*	2472	95.6	-	-	82.98	27.55	15.89	30.82	312	36	P	H
	*	2472	92.1	-	-	79.48	27.55	15.89	30.82	312	36	A	H
		2485.24	56.88	-17.12	74	44.24	27.55	15.91	30.82	312	36	P	H
		2485.64	48.58	-5.42	54	35.94	27.55	15.91	30.82	312	36	A	H
	*	2472	90.33	-	-	77.71	27.55	15.89	30.82	158	240	P	V
	*	2472	86.86	-	-	74.24	27.55	15.89	30.82	158	240	A	V
		2487.16	54.29	-19.71	74	41.65	27.55	15.91	30.82	158	240	P	V
		2483.72	46.06	-7.94	54	33.42	27.55	15.91	30.82	158	240	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	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	38.43	-35.57	74	55.14	31.36	8.5	56.57	100	0	P	H
		4824	37.7	-36.3	74	54.41	31.36	8.5	56.57	100	0	P	V
802.11b CH 06 2437MHz		4874	38.07	-35.93	74	54.51	31.46	8.65	56.55	100	0	P	H
		7311	43.67	-30.33	74	52.55	36.08	11.27	56.23	100	0	P	H
		4874	38.84	-35.16	74	55.28	31.46	8.65	56.55	100	0	P	V
		7311	43.31	-30.69	74	52.19	36.08	11.27	56.23	100	0	P	V
802.11b CH 11 2462MHz		4924	37.88	-36.12	74	54.05	31.56	8.8	56.53	100	0	P	H
		7386	44.56	-29.44	74	53.13	36.27	11.28	56.12	100	0	P	H
		4924	38.29	-35.71	74	54.46	31.56	8.8	56.53	100	0	P	V
		7386	44.05	-29.95	74	52.62	36.27	11.28	56.12	100	0	P	V
802.11b CH 12 2467MHz		4934	37.85	-36.15	74	53.99	31.56	8.83	56.53	100	0	P	H
		7401	43.04	-30.96	74	51.55	36.31	11.28	56.1	100	0	P	H
		4934	38.61	-35.39	74	54.75	31.56	8.83	56.53	100	0	P	V
		7401	43.38	-30.62	74	51.89	36.31	11.28	56.1	100	0	P	V
802.11b CH 13 2472MHz		4944	38.17	-35.83	74	54.24	31.6	8.85	56.52	100	0	P	H
		7416	43.75	-30.25	74	52.24	36.31	11.3	56.1	100	0	P	H
		4944	37.78	-36.22	74	53.85	31.6	8.85	56.52	100	0	P	V
		7416	43.95	-30.05	74	52.44	36.31	11.3	56.1	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	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	62.24	-11.76	74	50	27.31	15.78	30.85	324	34	P	H
		2389.8	52	-2	54	39.77	27.31	15.77	30.85	324	34	A	H
	*	2412	111.01	-	-	98.69	27.36	15.81	30.85	324	34	P	H
	*	2412	103.21	-	-	90.89	27.36	15.81	30.85	324	34	A	H
		2389.38	59.06	-14.94	74	46.84	27.31	15.77	30.86	378	275	P	V
		2390	49.31	-4.69	54	37.07	27.31	15.78	30.85	378	275	A	V
	*	2412	109.4	-	-	97.08	27.36	15.81	30.85	378	275	P	V
	*	2412	102.02	-	-	89.7	27.36	15.81	30.85	378	275	A	V
802.11g CH 06 2437MHz		2386.58	57.15	-16.85	74	44.93	27.31	15.77	30.86	314	33	P	H
		2389.8	47.69	-6.31	54	35.46	27.31	15.77	30.85	314	33	A	H
	*	2437	114.3	-	-	101.84	27.46	15.84	30.84	314	33	P	H
	*	2437	106.47	-	-	94.01	27.46	15.84	30.84	314	33	A	H
		2483.5	59.52	-14.48	74	46.88	27.55	15.91	30.82	314	33	P	H
		2485.44	49.41	-4.59	54	36.77	27.55	15.91	30.82	314	33	A	H
		2366.7	57.91	-16.09	74	45.82	27.21	15.74	30.86	137	238	P	V
		2388.54	44.34	-9.66	54	32.12	27.31	15.77	30.86	137	238	A	V
	*	2437	109.31	-	-	96.85	27.46	15.84	30.84	137	238	P	V
	*	2437	101.69	-	-	89.23	27.46	15.84	30.84	137	238	A	V
		2488.66	56.5	-17.5	74	43.81	27.6	15.91	30.82	137	238	P	V
		2484.88	45.71	-8.29	54	33.07	27.55	15.91	30.82	137	238	A	V



802.11g CH 11 2462MHz	*	2462	111.83	-	-	99.28	27.5	15.88	30.83	308	47	P	H
	*	2462	104.11	-	-	91.56	27.5	15.88	30.83	308	47	A	H
		2483.56	66.59	-7.41	74	53.95	27.55	15.91	30.82	308	47	P	H
		2483.84	51.94	-2.06	54	39.3	27.55	15.91	30.82	308	47	A	H
	*	2462	109.54	-	-	96.99	27.5	15.88	30.83	400	285	P	V
	*	2462	101.76	-	-	89.21	27.5	15.88	30.83	400	285	A	V
		2484.08	63.83	-10.17	74	51.19	27.55	15.91	30.82	400	285	P	V
		2483.68	49.65	-4.35	54	37.01	27.55	15.91	30.82	400	285	A	V
802.11g CH 12 2467MHz	*	2467	102.1	-	-	89.54	27.5	15.88	30.82	307	46	P	H
	*	2467	94.18	-	-	81.62	27.5	15.88	30.82	307	46	A	H
		2484.4	60.15	-13.85	74	47.51	27.55	15.91	30.82	307	46	P	H
		2483.52	50.53	-3.47	54	37.89	27.55	15.91	30.82	307	46	A	H
	*	2467	97.63	-	-	85.07	27.5	15.88	30.82	134	271	P	V
	*	2467	89.78	-	-	77.22	27.5	15.88	30.82	134	271	A	V
		2483.52	56.96	-17.04	74	44.32	27.55	15.91	30.82	134	271	P	V
		2483.52	47.23	-6.77	54	34.59	27.55	15.91	30.82	134	271	A	V
802.11g CH 13 2472MHz	*	2472	90.48	-	-	77.86	27.55	15.89	30.82	305	39	P	H
	*	2472	82.96	-	-	70.34	27.55	15.89	30.82	305	39	A	H
		2484.16	62.54	-11.46	74	49.9	27.55	15.91	30.82	305	39	P	H
		2483.52	49.93	-4.07	54	37.29	27.55	15.91	30.82	305	39	A	H
	*	2472	85.39	-	-	72.77	27.55	15.89	30.82	100	71	P	V
	*	2472	77.67	-	-	65.05	27.55	15.89	30.82	100	71	A	V
		2483.52	58.01	-15.99	74	45.37	27.55	15.91	30.82	100	71	P	V
		2483.56	45.8	-8.2	54	33.16	27.55	15.91	30.82	100	71	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	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	37.74	-36.26	74	54.45	31.36	8.5	56.57	100	0	P	H
		4824	37.89	-36.11	74	54.6	31.36	8.5	56.57	100	0	P	V
802.11g CH 06 2437MHz		4874	37.31	-36.69	74	53.75	31.46	8.65	56.55	100	0	P	H
		7311	43.37	-30.63	74	52.25	36.08	11.27	56.23	100	0	P	H
		4874	38.09	-35.91	74	54.53	31.46	8.65	56.55	100	0	P	V
		7311	43.1	-30.9	74	51.98	36.08	11.27	56.23	100	0	P	V
802.11g CH 11 2462MHz		4924	39.29	-34.71	74	55.46	31.56	8.8	56.53	100	0	P	H
		7386	43.56	-30.44	74	52.13	36.27	11.28	56.12	100	0	P	H
		4924	38.42	-35.58	74	54.59	31.56	8.8	56.53	100	0	P	V
		7386	44.15	-29.85	74	52.72	36.27	11.28	56.12	100	0	P	V
802.11g CH 12 2467MHz		4934	38.31	-35.69	74	54.45	31.56	8.83	56.53	100	0	P	H
		7401	44.06	-29.94	74	52.57	36.31	11.28	56.1	100	0	P	H
		4934	37.85	-36.15	74	53.99	31.56	8.83	56.53	100	0	P	V
		7401	44.05	-29.95	74	52.56	36.31	11.28	56.1	100	0	P	V
802.11g CH 13 2472MHz		4944	37.97	-36.03	74	54.04	31.6	8.85	56.52	100	0	P	H
		7416	43.57	-30.43	74	52.06	36.31	11.3	56.1	100	0	P	H
		4944	38.35	-35.65	74	54.42	31.6	8.85	56.52	100	0	P	V
		7416	42.75	-31.25	74	51.24	36.31	11.3	56.1	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	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		2387.28	69.61	-4.39	74	57.39	27.31	15.77	30.86	166	44	P	H
		2390	52.84	-1.16	54	40.6	27.31	15.78	30.85	166	44	A	H
	*	2412	111.85	-	-	99.53	27.36	15.81	30.85	166	44	P	H
	*	2412	104.29	-	-	91.97	27.36	15.81	30.85	166	44	A	H
		2386.335	64.22	-9.78	74	52	27.31	15.77	30.86	376	281	P	V
		2389.695	49.37	-4.63	54	37.15	27.31	15.77	30.86	376	281	A	V
	*	2412	110.11	-	-	97.79	27.36	15.81	30.85	376	281	P	V
	*	2412	102.03	-	-	89.71	27.36	15.81	30.85	376	281	A	V
802.11n HT20 CH 06 2437MHz		2379.02	59.68	-14.32	74	47.52	27.26	15.76	30.86	318	26	P	H
		2389.24	46.22	-7.78	54	34	27.31	15.77	30.86	318	26	A	H
	*	2437	111.41	-	-	98.95	27.46	15.84	30.84	318	26	P	H
	*	2437	103.77	-	-	91.31	27.46	15.84	30.84	318	26	A	H
		2490.41	57	-17	74	44.3	27.6	15.92	30.82	318	26	P	H
		2484.25	47.16	-6.84	54	34.52	27.55	15.91	30.82	318	26	A	H
		2386.72	59.46	-14.54	74	47.24	27.31	15.77	30.86	115	258	P	V
		2388.96	45	-9	54	32.78	27.31	15.77	30.86	115	258	A	V
	*	2437	108.93	-	-	96.47	27.46	15.84	30.84	115	258	P	V
	*	2437	101.04	-	-	88.58	27.46	15.84	30.84	115	258	A	V
		2495.59	58.02	-15.98	74	45.31	27.6	15.92	30.81	115	258	P	V
		2483.62	46.6	-7.4	54	33.96	27.55	15.91	30.82	115	258	A	V



802.11n HT20 CH 11 2462MHz	*	2462	112.24	-	-	99.69	27.5	15.88	30.83	132	46	P	H
	*	2462	104.52	-	-	91.97	27.5	15.88	30.83	132	46	A	H
		2483.84	66.74	-7.26	74	54.1	27.55	15.91	30.82	132	46	P	H
		2483.56	52.8	-1.2	54	40.16	27.55	15.91	30.82	132	46	A	H
	*	2462	109.33	-	-	96.78	27.5	15.88	30.83	400	289	P	V
	*	2462	101.66	-	-	89.11	27.5	15.88	30.83	400	289	A	V
		2488.48	64.41	-9.59	74	51.72	27.6	15.91	30.82	400	289	P	V
		2483.6	50.35	-3.65	54	37.71	27.55	15.91	30.82	400	289	A	V
802.11n HT20 CH 12 2467MHz	*	2467	101.14	-	-	88.58	27.5	15.88	30.82	307	36	P	H
	*	2467	93.64	-	-	81.08	27.5	15.88	30.82	307	36	A	H
		2484	59.36	-14.64	74	46.72	27.55	15.91	30.82	307	36	P	H
		2483.68	50.56	-3.44	54	37.92	27.55	15.91	30.82	307	36	A	H
	*	2467	98.09	-	-	85.53	27.5	15.88	30.82	152	271	P	V
	*	2467	89.19	-	-	76.63	27.5	15.88	30.82	152	271	A	V
		2484.28	56.06	-17.94	74	43.42	27.55	15.91	30.82	152	271	P	V
		2483.52	46.45	-7.55	54	33.81	27.55	15.91	30.82	152	271	A	V
802.11n HT20 CH 13 2472MHz	*	2472	89.93	-	-	77.31	27.55	15.89	30.82	306	38	P	H
	*	2472	82.26	-	-	69.64	27.55	15.89	30.82	306	38	A	H
		2483.52	62.89	-11.11	74	50.25	27.55	15.91	30.82	306	38	P	H
		2483.6	50.35	-3.65	54	37.71	27.55	15.91	30.82	306	38	A	H
	*	2472	84.2	-	-	71.58	27.55	15.89	30.82	123	226	P	V
	*	2472	76.39	-	-	63.77	27.55	15.89	30.82	123	226	A	V
		2483.88	57.1	-16.9	74	44.46	27.55	15.91	30.82	123	226	P	V
		2483.52	46.33	-7.67	54	33.69	27.55	15.91	30.82	123	226	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	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	37.8	-36.2	74	54.51	31.36	8.5	56.57	100	0	P	H
		4824	38.65	-35.35	74	55.36	31.36	8.5	56.57	100	0	P	V
802.11n HT20 CH 06 2437MHz		4874	37.82	-36.18	74	54.26	31.46	8.65	56.55	100	0	P	H
		7311	43.51	-30.49	74	52.39	36.08	11.27	56.23	100	0	P	H
		4874	38.39	-35.61	74	54.83	31.46	8.65	56.55	100	0	P	V
		7311	44.33	-29.67	74	53.21	36.08	11.27	56.23	100	0	P	V
802.11n HT20 CH 11 2462MHz		4924	38.55	-35.45	74	54.72	31.56	8.8	56.53	100	0	P	H
		7386	45.12	-28.88	74	53.69	36.27	11.28	56.12	100	0	P	H
		4924	38.37	-35.63	74	54.54	31.56	8.8	56.53	100	0	P	V
		7386	43.86	-30.14	74	52.43	36.27	11.28	56.12	100	0	P	V
802.11n HT20 CH 12 2467MHz		4934	37.99	-36.01	74	54.13	31.56	8.83	56.53	100	0	P	H
		7401	43.05	-30.95	74	51.56	36.31	11.28	56.1	100	0	P	H
		4934	38.87	-35.13	74	55.01	31.56	8.83	56.53	100	0	P	V
		7401	43.16	-30.84	74	51.67	36.31	11.28	56.1	100	0	P	V
802.11n HT20 CH 13 2472MHz		4944	38.15	-35.85	74	54.22	31.6	8.85	56.52	100	0	P	H
		7416	43.46	-30.54	74	51.95	36.31	11.3	56.1	100	0	P	H
		4944	38.15	-35.85	74	54.22	31.6	8.85	56.52	100	0	P	V
		7416	42.81	-31.19	74	51.3	36.31	11.3	56.1	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11g LF		101.01	17.53	-25.97	43.5	32.64	16.16	1.3	32.57	-	-	P	H
		197.94	29.79	-13.71	43.5	45.48	14.98	1.87	32.54	100	0	P	H
		297.03	26.87	-19.13	46	37.81	19.37	2.22	32.53	-	-	P	H
		446.3	25.53	-20.47	46	32.31	23.18	2.58	32.54	-	-	P	H
		560.4	28.2	-17.8	46	31.52	26.27	2.97	32.56	-	-	P	H
		692	29.37	-16.63	46	31.94	26.7	3.23	32.5	-	-	P	H
		31.62	23.31	-16.69	40	31.66	23.61	0.69	32.65	-	-	P	V
		76.17	23.72	-16.28	40	42.09	13.07	1.15	32.59	-	-	P	V
		197.94	28.8	-14.7	43.5	44.49	14.98	1.87	32.54	100	0	P	V
		477.1	25.24	-20.76	46	31.29	23.82	2.68	32.55	-	-	P	V
		552	27.4	-18.6	46	31.23	25.77	2.96	32.56	-	-	P	V
		706	29.87	-16.13	46	32.01	27.07	3.26	32.47	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



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

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

$$1. \text{ Path Loss(dB)} = \text{Cable loss(dB)} + \text{Filter loss(dB)} + \text{Attenuator loss(dB)}$$

$$2. \text{ Level(dB}\mu\text{V/m)} =$$

$$\text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$3. \text{ Over Limit(dB)} = \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

For Peak Limit @ 2390MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB}\mu\text{V}) - 35.86(\text{dB})$$

$$= 55.45(\text{dB}\mu\text{V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

$$= 55.45(\text{dB}\mu\text{V/m}) - 74(\text{dB}\mu\text{V/m})$$

$$= -18.55(\text{dB})$$

For Average Limit @ 2390MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB}\mu\text{V}) - 35.86(\text{dB})$$

$$= 43.54(\text{dB}\mu\text{V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

$$= 43.54(\text{dB}\mu\text{V/m}) - 54(\text{dB}\mu\text{V/m})$$

$$= -10.46(\text{dB})$$

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



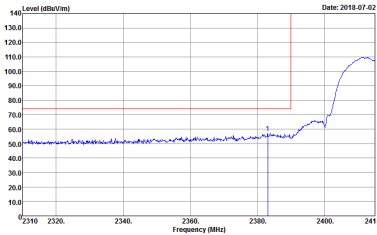
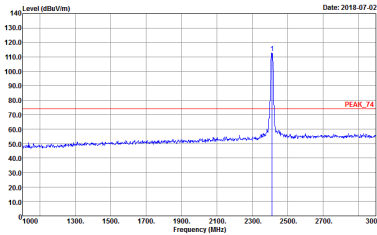
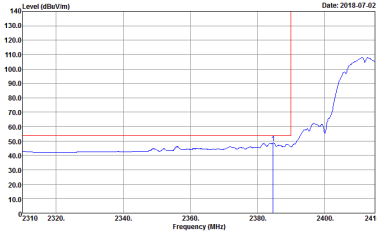
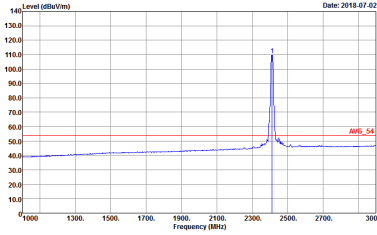
Appendix D. Radiated Spurious Emission Plots

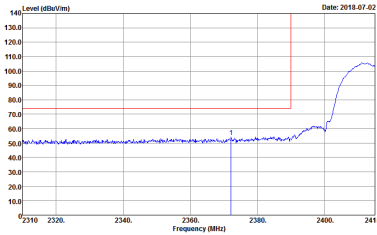
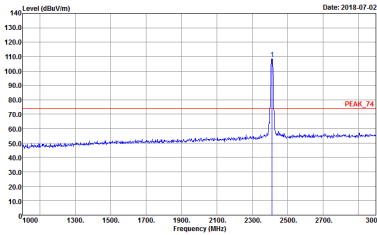
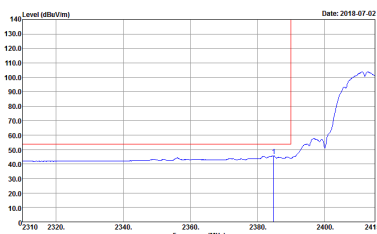
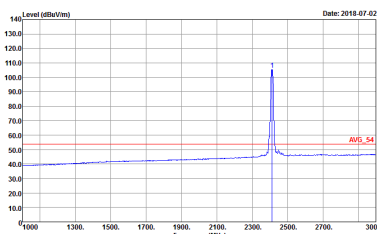
Test Engineer :	Bill Chang, Lance Chiang, and Karl Hou	Temperature :	22~26°C
		Relative Humidity :	52~56%

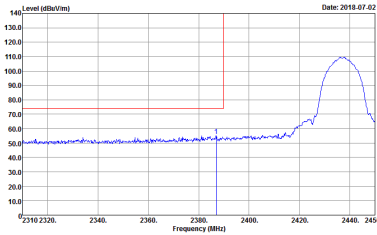
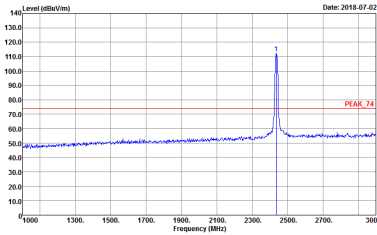
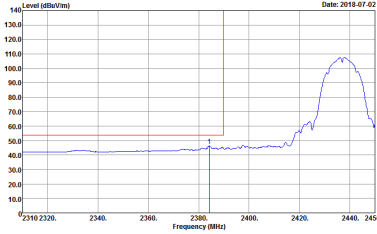
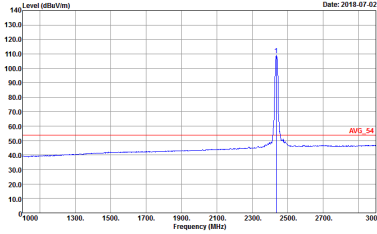
Note symbol

-L	Low channel location
-R	High channel location

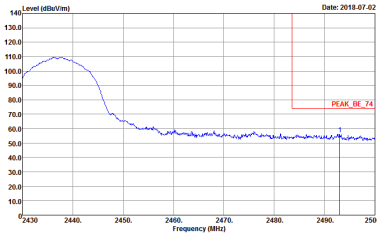
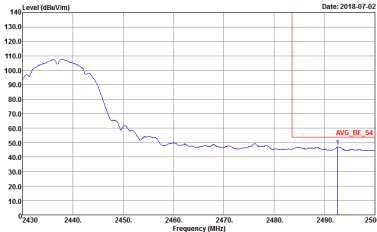
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

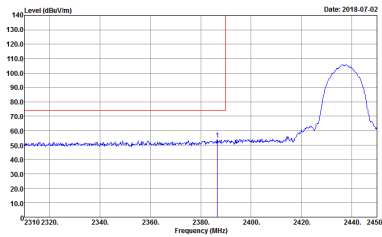
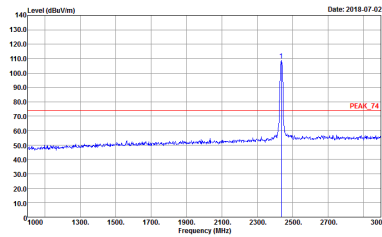
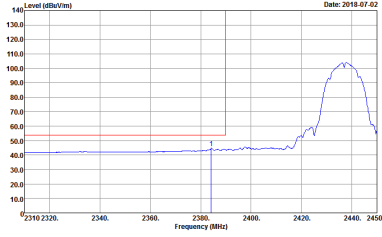
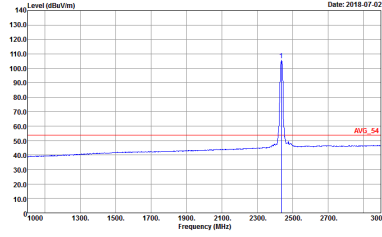
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

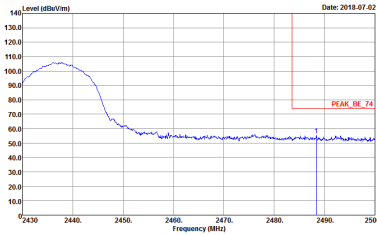
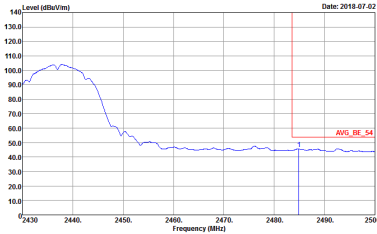
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

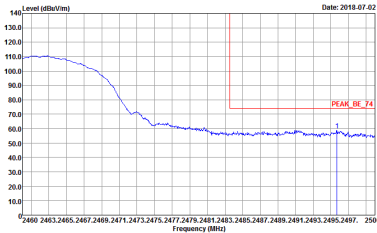
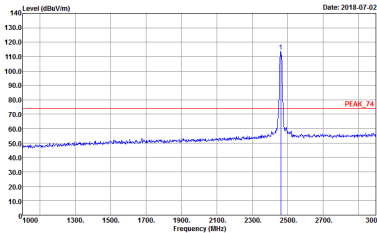
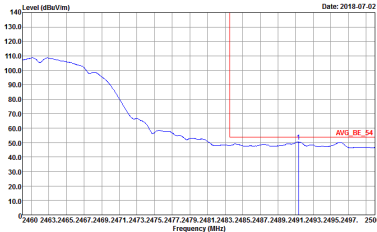
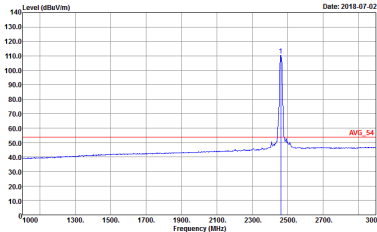


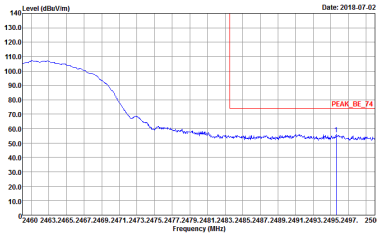
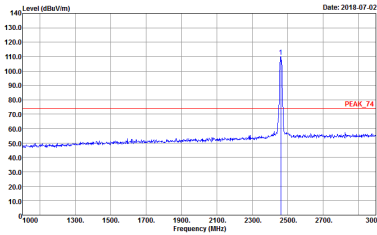
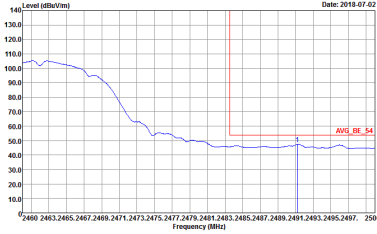
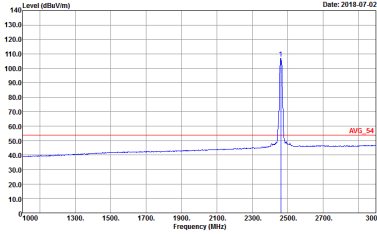
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HV Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HV Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

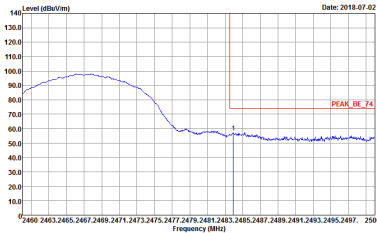
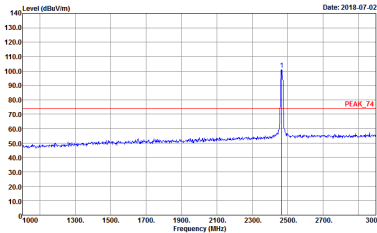
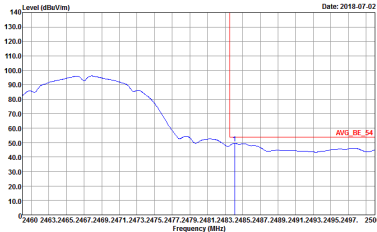
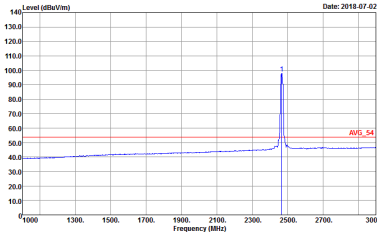
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site: : 03CH115-HY Condition: : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site: : 03CH115-HY Condition: : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto
Avg.		

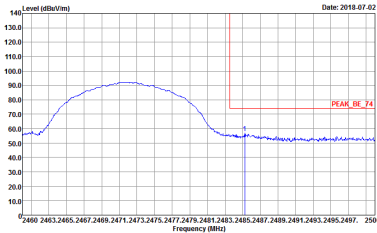
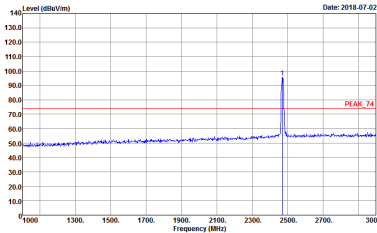
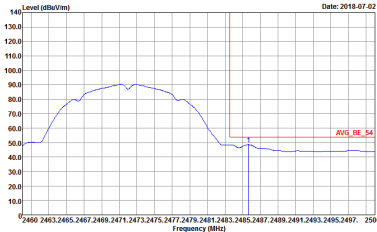
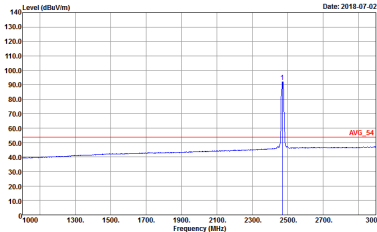


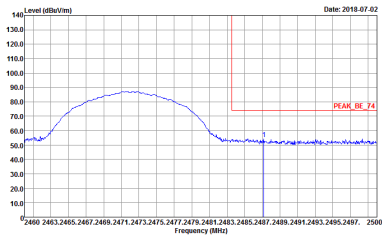
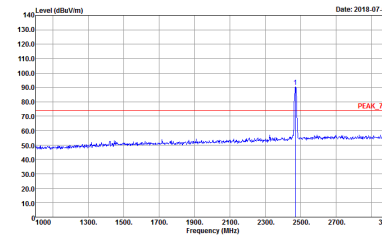
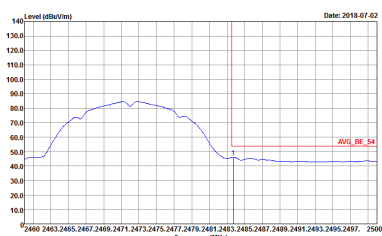
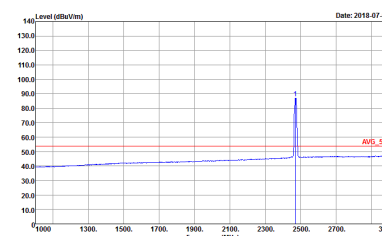
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ANT	802.11b CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



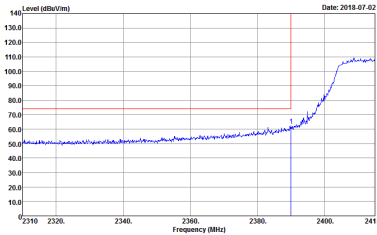
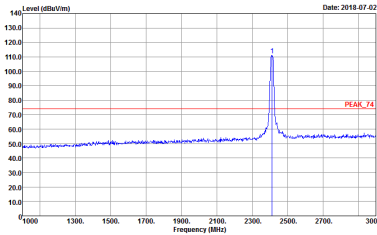
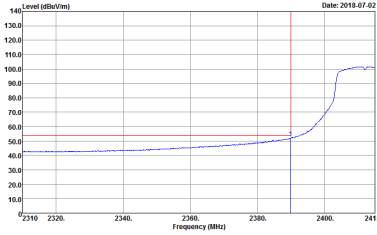
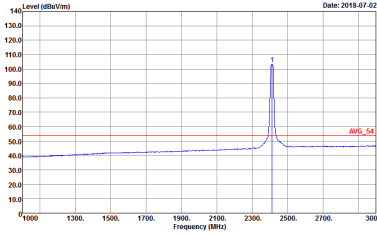
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

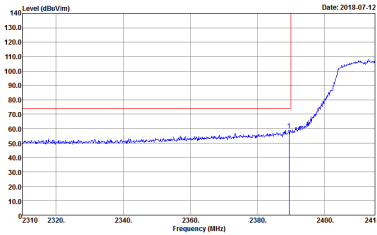
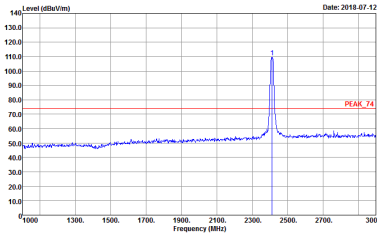
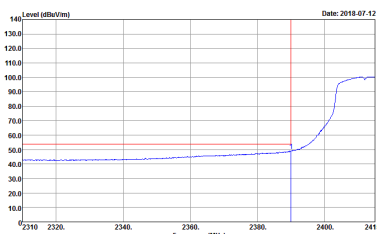
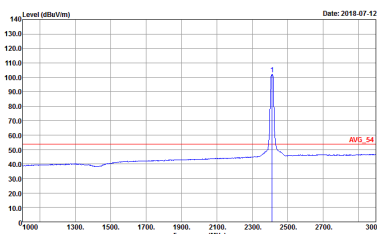


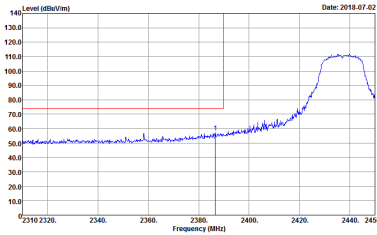
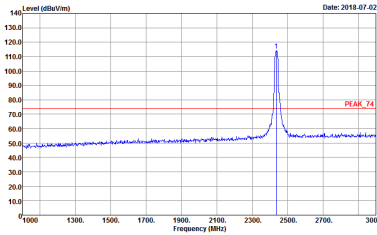
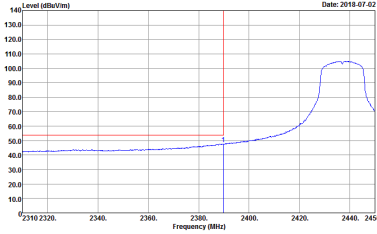
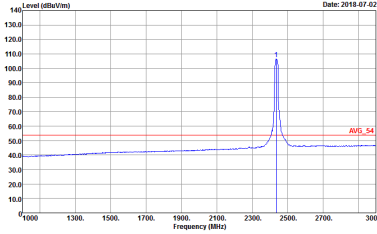
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

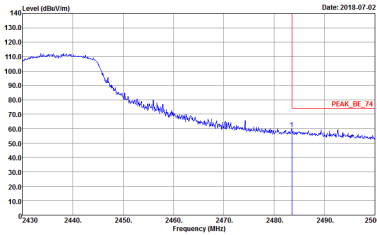
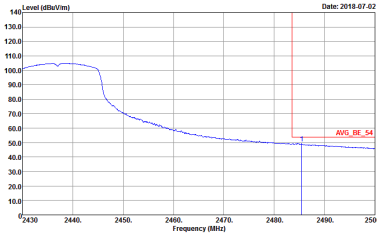
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

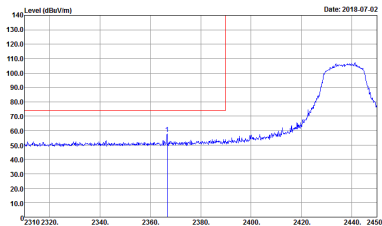
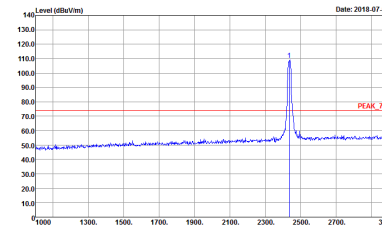
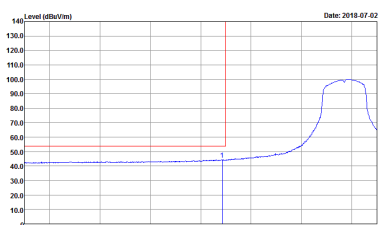
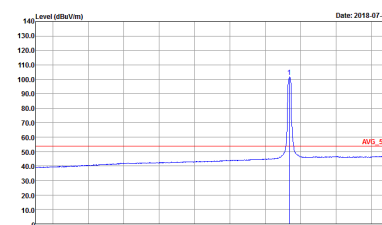
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

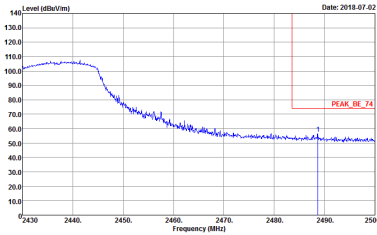
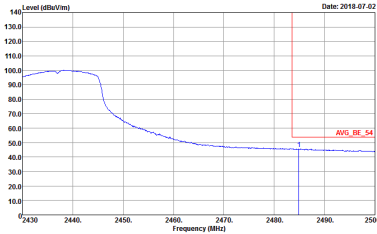
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

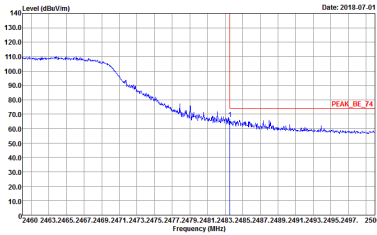
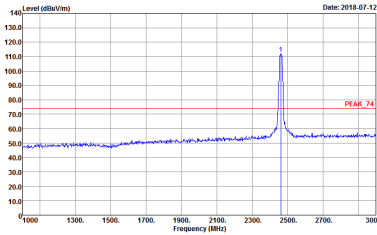
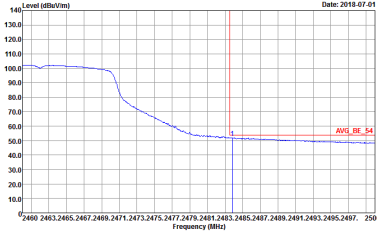
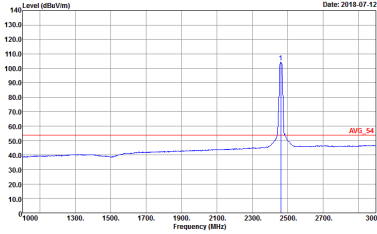
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		

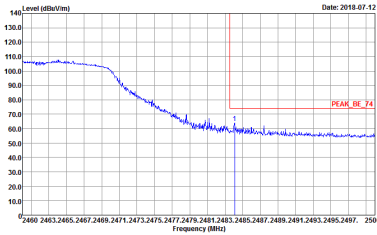
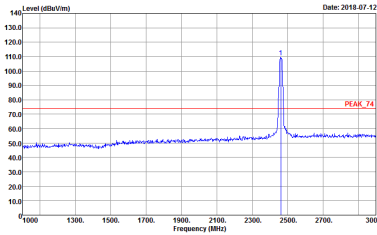
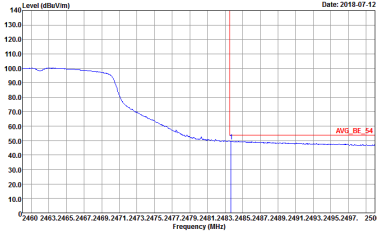
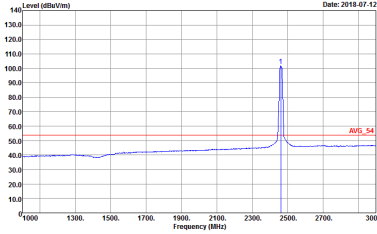
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH115-HV Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH115-HV Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

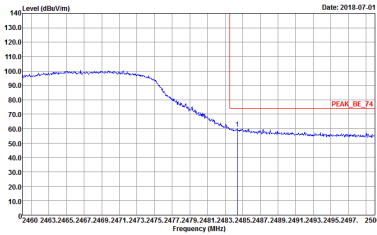
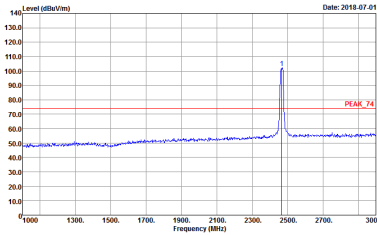
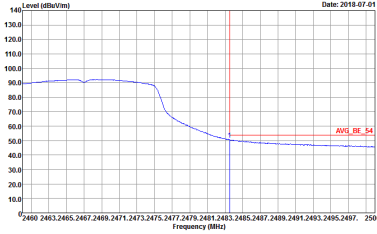
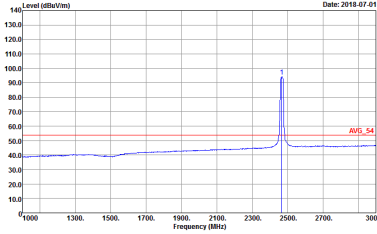
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		

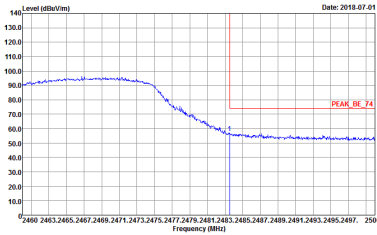
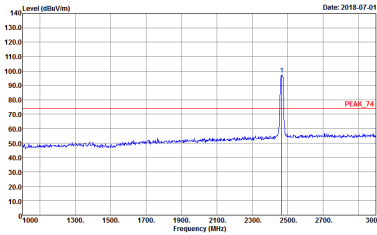
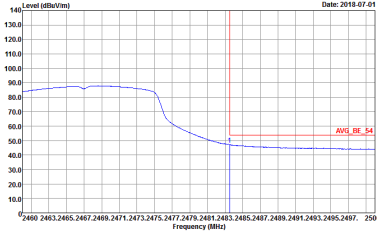
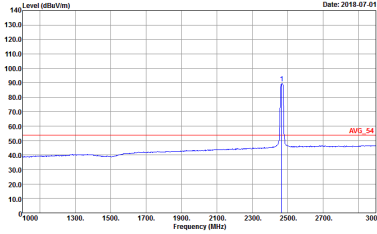


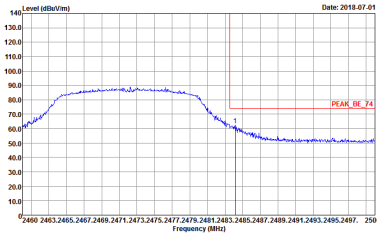
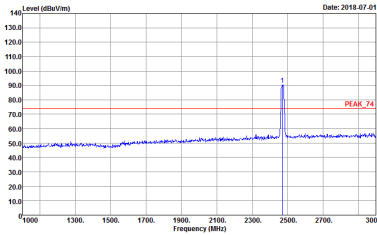
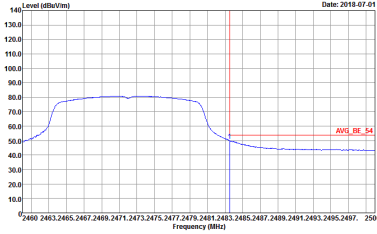
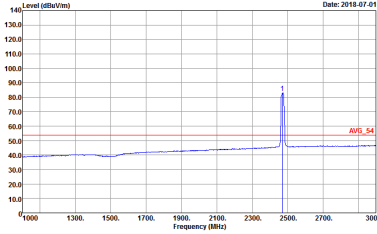
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

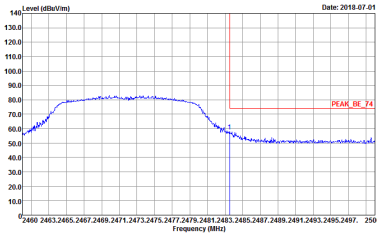
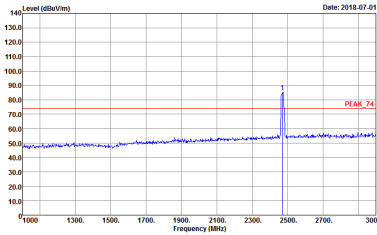
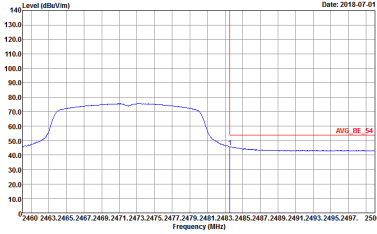
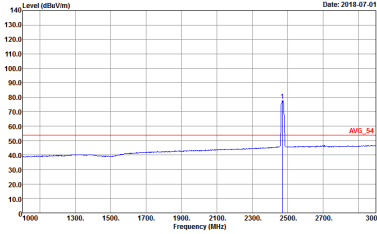
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

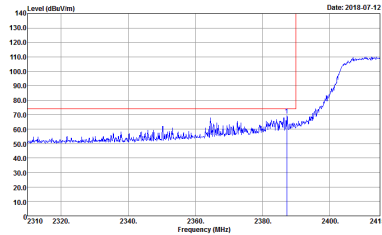
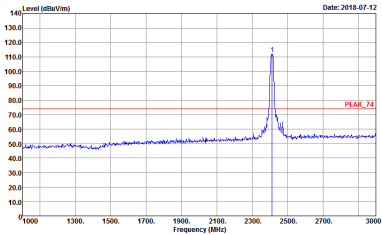
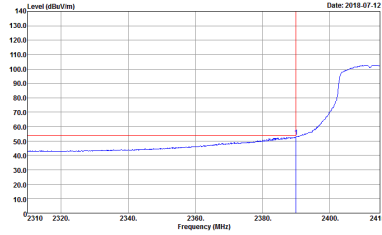
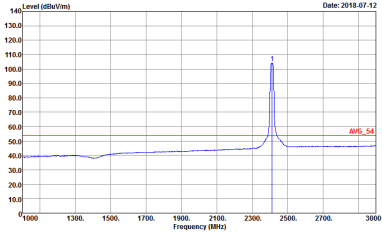
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

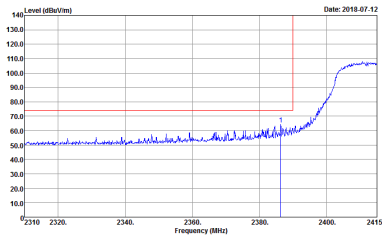
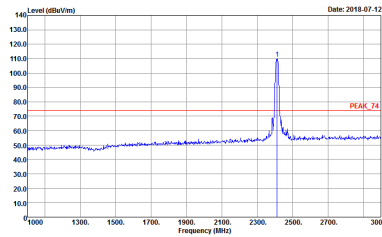
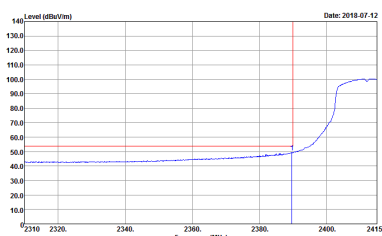
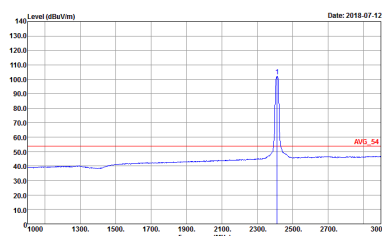
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

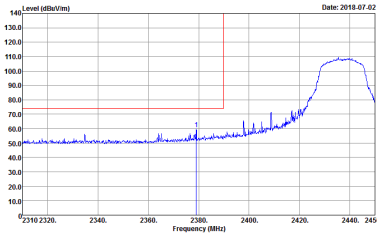
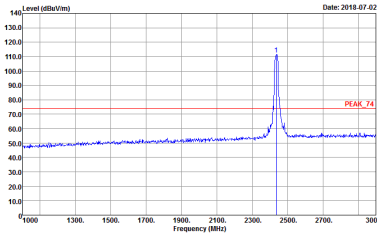
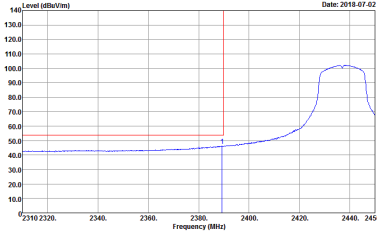
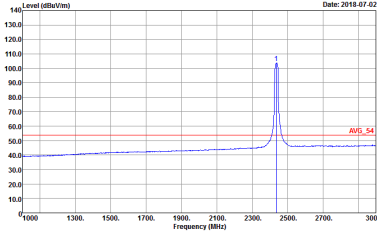


2.4GHz 2400~2483.5MHz

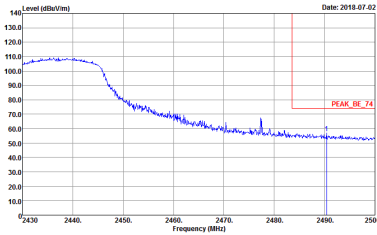
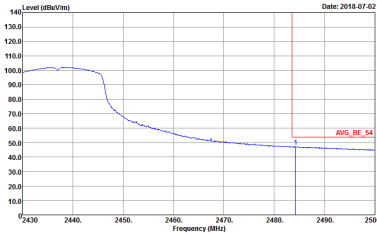
WIFI 802.11n HT20 (Band Edge @ 3m)

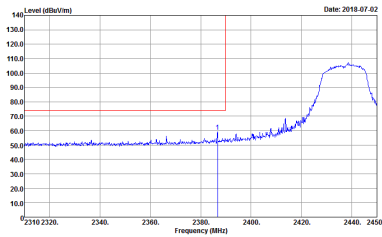
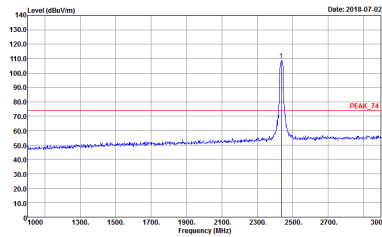
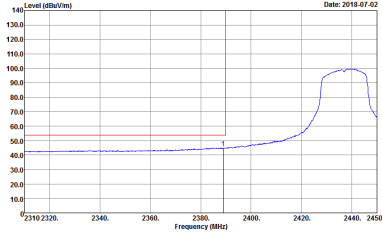
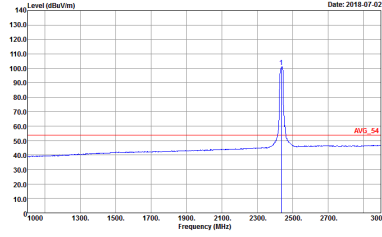
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

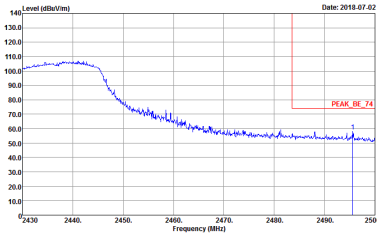
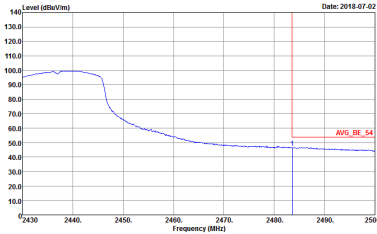
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

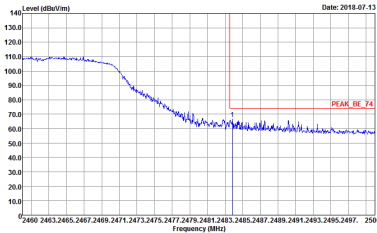
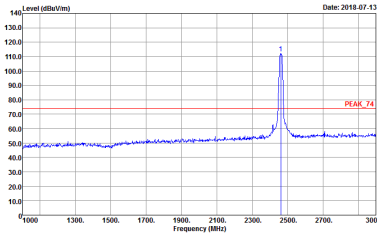
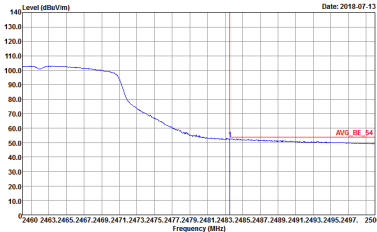
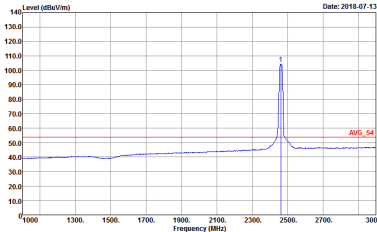


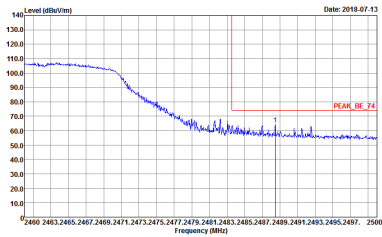
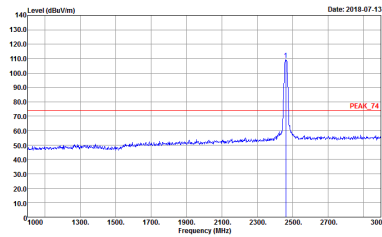
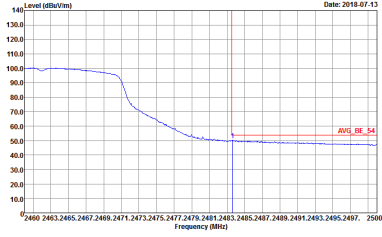
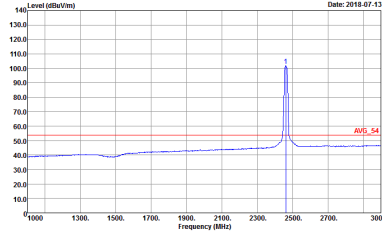
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HV Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HV Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

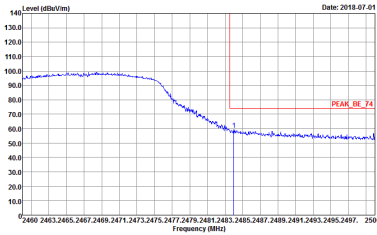
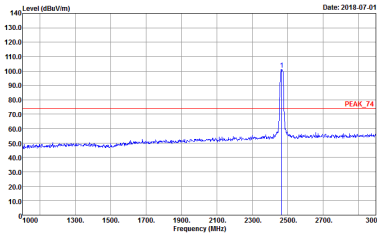
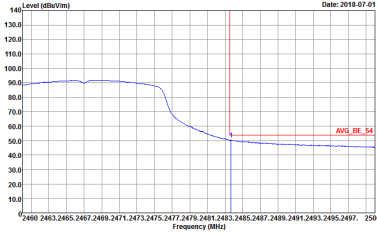
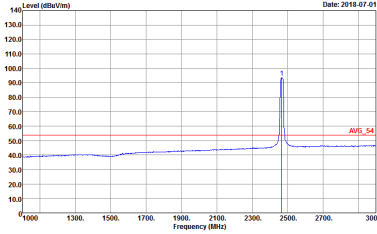
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

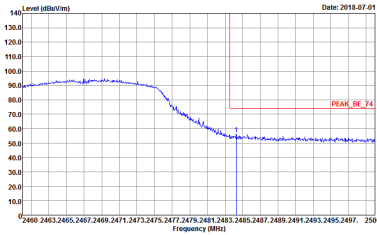
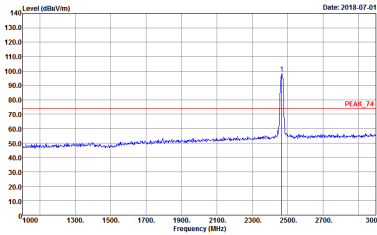
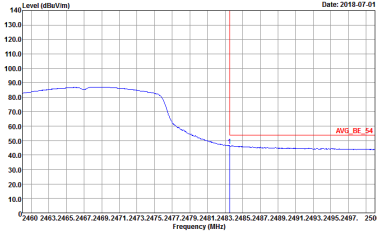
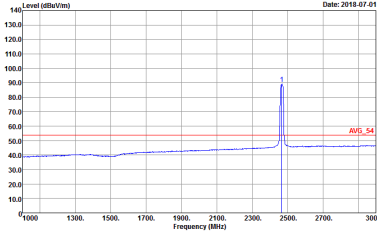


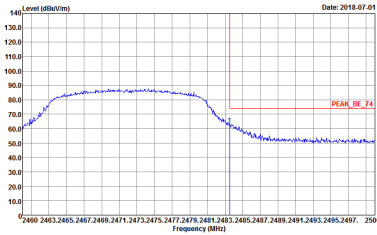
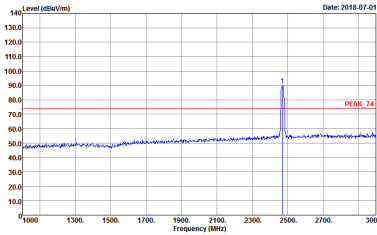
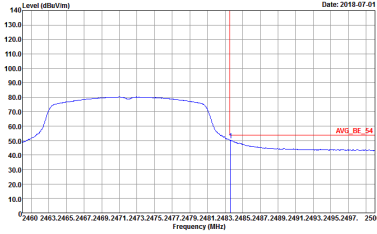
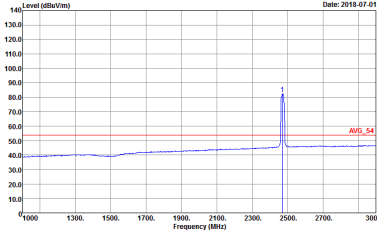
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		

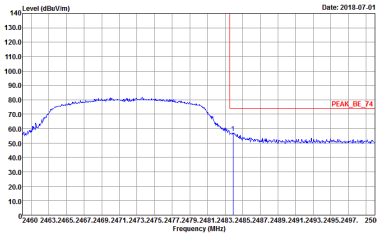
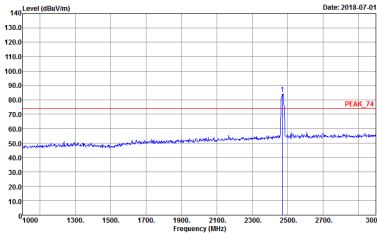
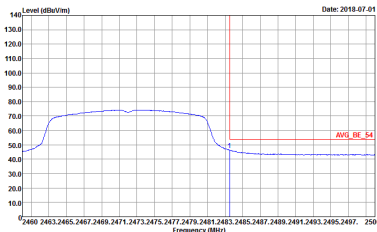
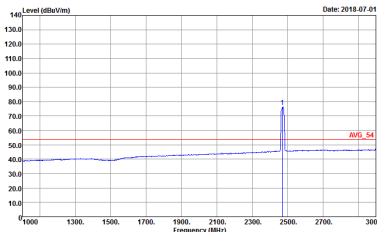
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 791332-01 Mode : 1B Setting : 20	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 791332-01 Mode : 1B Setting : 20

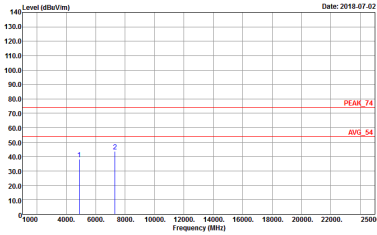
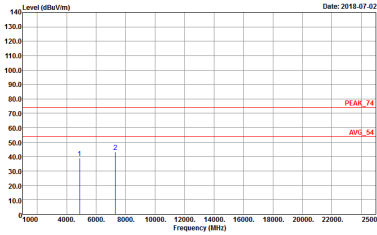


2.4GHz 2400~2483.5MHz

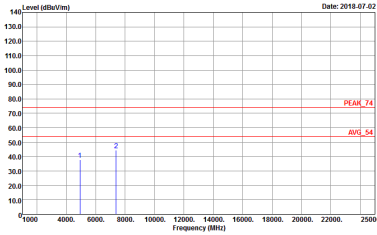
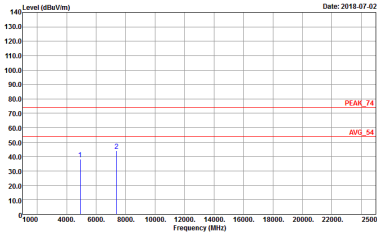
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak	Site : 03CH15-HY Condition : PEAK_74 3m 9120d_15_1620 HORIZONTAL	Site : 03CH15-HY Condition : PEAK_74 3m 9120d_15_1620 VERTICAL

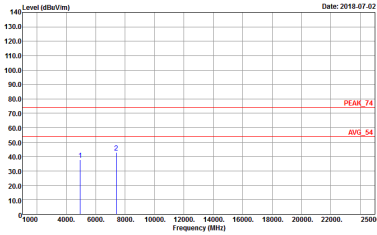
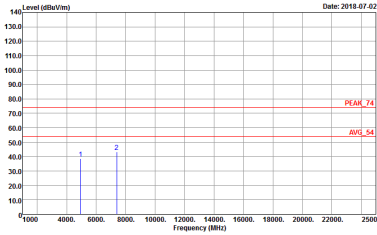


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 HORIZONTAL	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 VERTICAL

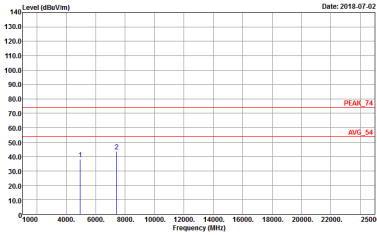
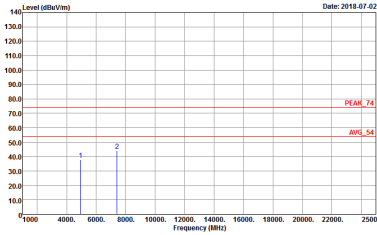


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak	 Site : 03CHI5-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL	 Site : 03CHI5-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH12 2467MHz	
1	Horizontal	Vertical
Peak	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 HORIZONTAL	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 VERTICAL

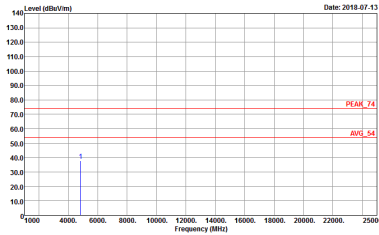
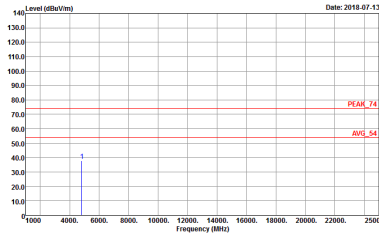


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH13 2472MHz	
1	Horizontal	Vertical
Peak	 Site : 03CHI5-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL	 Site : 03CHI5-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL

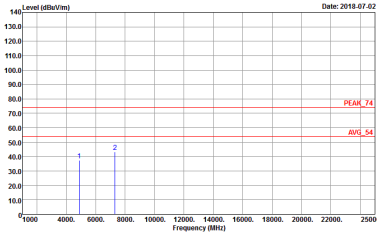
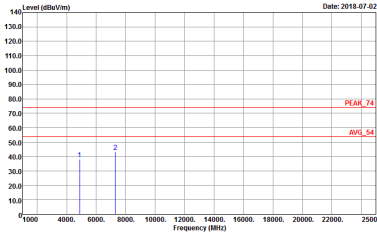


2.4GHz 2400~2483.5MHz

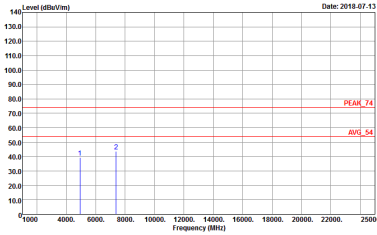
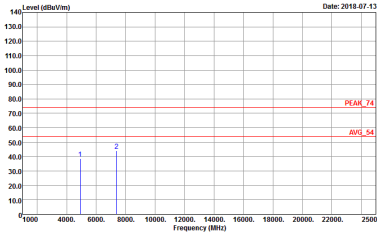
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK_74 3m 9120d_15_1620 VERTICAL	 Site : 03CH15-HY Condition : PEAK_74 3m 9120d_15_1620 VERTICAL

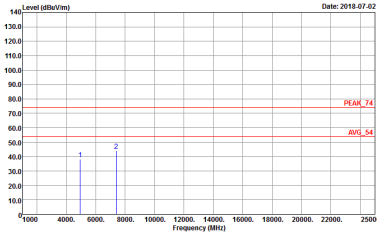
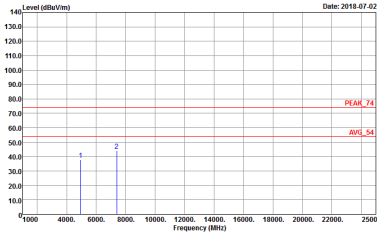


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 HORIZONTAL	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 VERTICAL

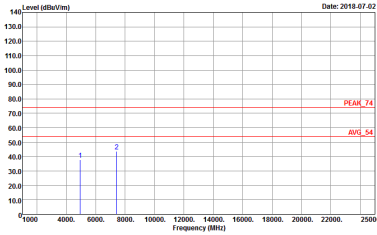
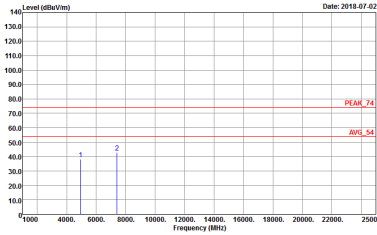


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 HORIZONTAL	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 VERTICAL

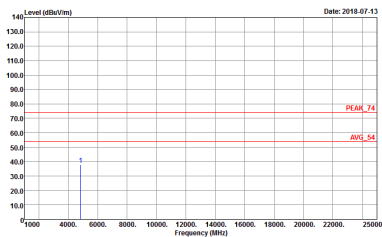
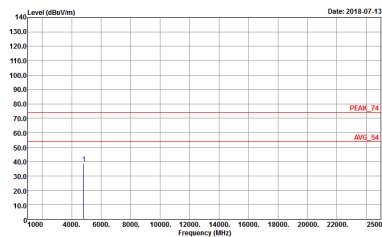


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH12 2467MHz	
1	Horizontal	Vertical
Peak	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 HORIZONTAL	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 VERTICAL

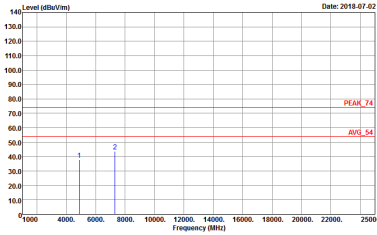
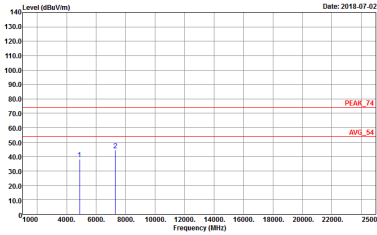


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH13 2472MHz	
1	Horizontal	Vertical
Peak	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 HORIZONTAL	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 VERTICAL

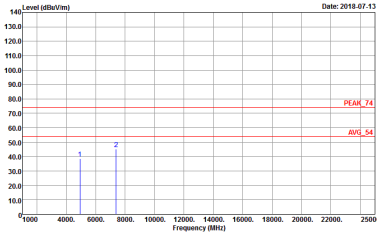
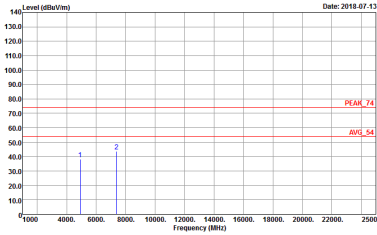
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK_74 3m 9120d_15_1620 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK_74 3m 9120d_15_1620 VERTICAL

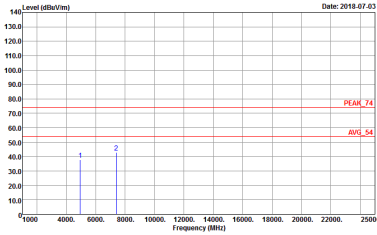
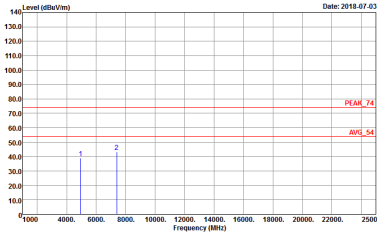


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak	 Site : 03CHI5-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL	 Site : 03CHI5-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL

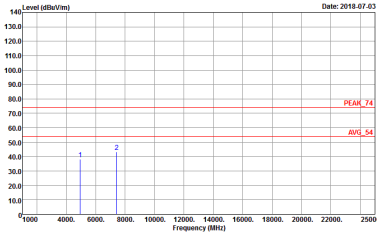
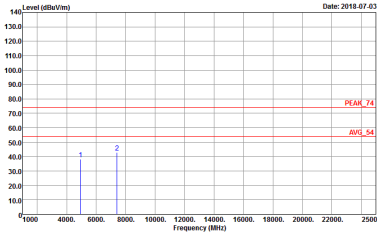


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 HORIZONTAL	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 VERTICAL

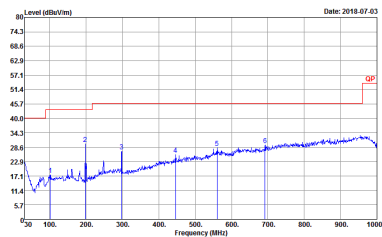
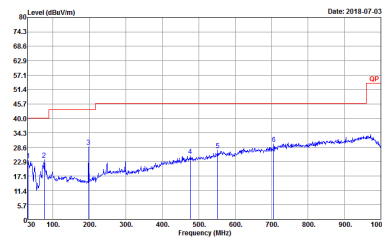


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH12 2462MHz	
1	Horizontal	Vertical
Peak	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 HORIZONTAL	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Horizontal	Vertical
Peak	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 HORIZONTAL	 Site : 03CHI5-HY Condition : PEAK_74 3m 9120d_15_1620 VERTICAL

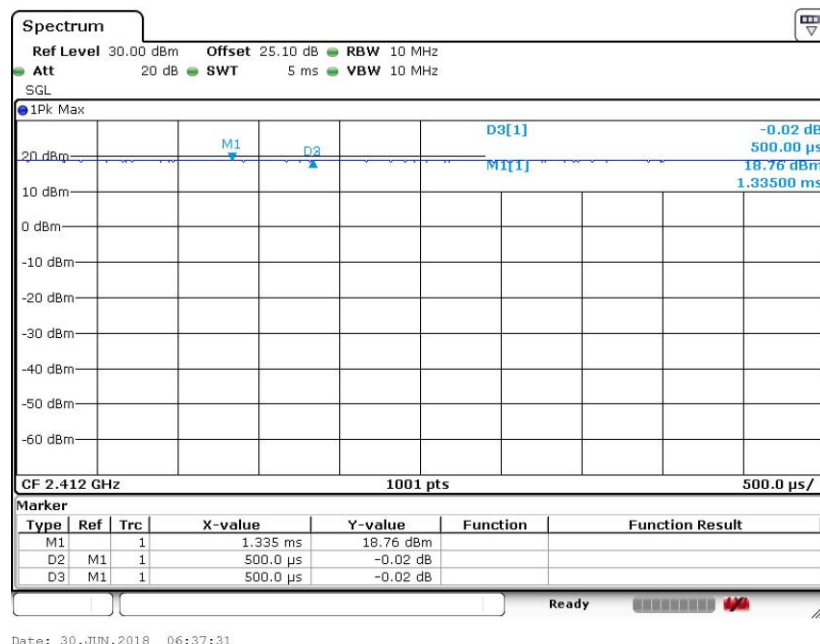
Emission below 1GHz
2.4GHz WIFI 802.11g (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11g LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH15-HY Condition : QP 3m B1LO6_15_41912 HORIZONTAL	 Site : 03CH15-HY Condition : QP 3m B1LO6_15_41912 VERTICAL

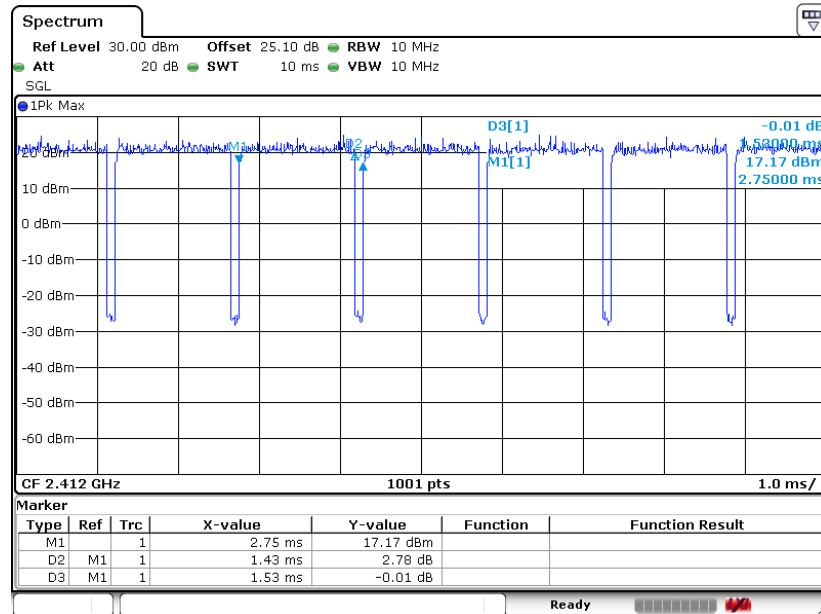
Appendix E. Duty Cycle Plots

Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor (dB)
802.11b	100.00	-	-	10Hz	0.00
802.11g	93.46	1430.00	0.70	1kHz	0.29
2.4GHz 802.11n HT20	93.46	1340.00	0.75	1kHz	0.29

802.11b

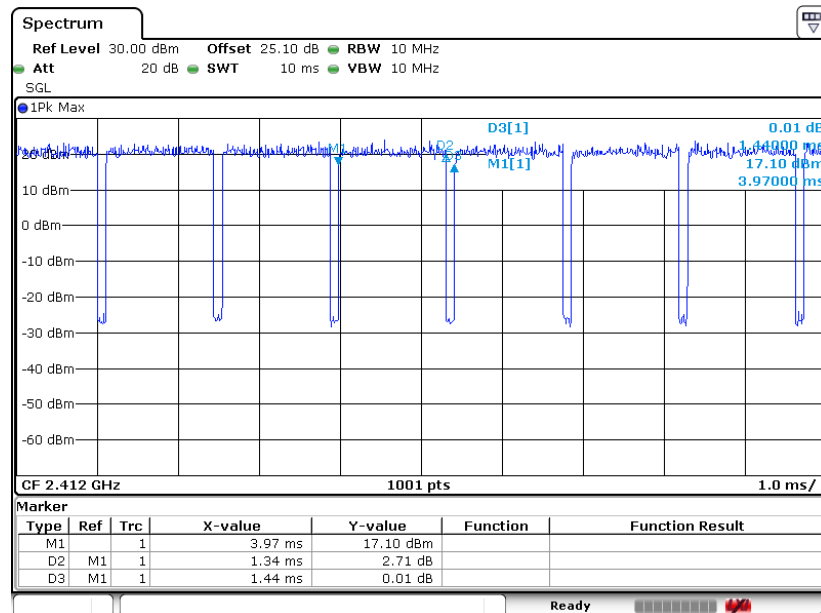


802.11g



Date: 29.JUN.2018 06:49:02

802.11n HT20



Date: 29.JUN.2018 07:01:21

—THE END—