FCC RADIO TEST REPORT

FCC ID	:	**2AP7R-6245**
Equipment	:	**Tablet**
Model Name	:	**M2V3R5**
Applicant	:	**No Dark Matter LLC** **1350 Scenic Hwy, Ste. 266 Snellville, GA 30078**
Standard	:	**FCC Part 15 Subpart C §15.247**

The product was received on May 03, 2019 and testing was started from May 07, 2019 and completed on Jun. 24, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, 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.

Jones Tsai

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
FR8N2215-02C	01	Initial issue of report	Jul. 02, 2019

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

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Elise Chang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet
Model Name	M2V3R5
FCC ID	2AP7R-6245
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2472 MHz
Maximum Output Power to antenna	**<Ant. 1>** 802.11b : 14.40 dBm (0.0275 W) 802.11g : 14.30 dBm (0.0269 W) 802.11n HT20 : 14.40 dBm (0.0275 W) **<Ant. 2>** 802.11b : 14.40 dBm (0.0275 W) 802.11g : 14.20 dBm (0.0263 W) 802.11n HT20 : 14.40 dBm (0.0275 W)
99% Occupied Bandwidth	**<Ant. 1>** 802.11b : 13.00MHz 802.11g : 16.80MHz 802.11n HT20 : 17.75MHz **<Ant. 2>** 802.11b : 12.95MHz 802.11g : 16.75MHz 802.11n HT20 : 17.75MHz
Antenna Type / Gain	**<Ant. 1>** Fixed Internal Antenna with gain 2.10 dBi **<Ant. 2>** Fixed Internal Antenna with gain 1.10 dBi
Type of Modulation	Bluetooth BR (1Mbps) : GFSK Bluetooth EDR (2Mbps) : π/4-DQPSK Bluetooth EDR (3Mbps) : 8-DPSK

1.3 Modification of EUT

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

1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory		
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	03CH07-HY

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

FCC designation No.: TW1190

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 v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

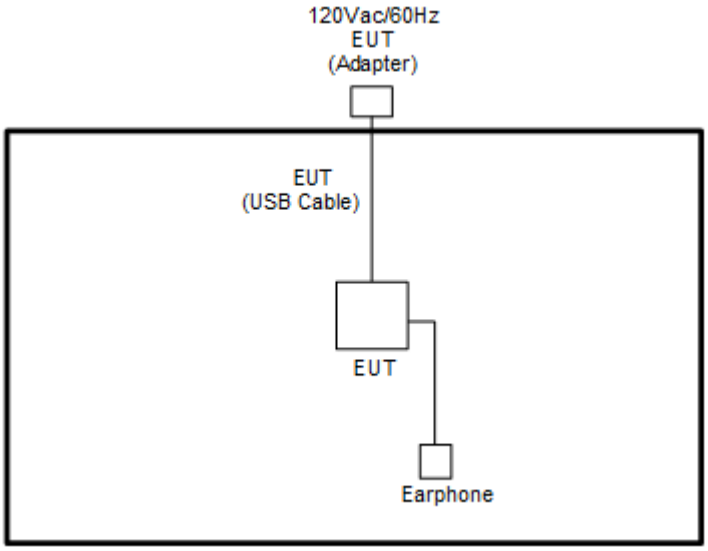
Final test modes are considering the modulation and worse data rates as below table.

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

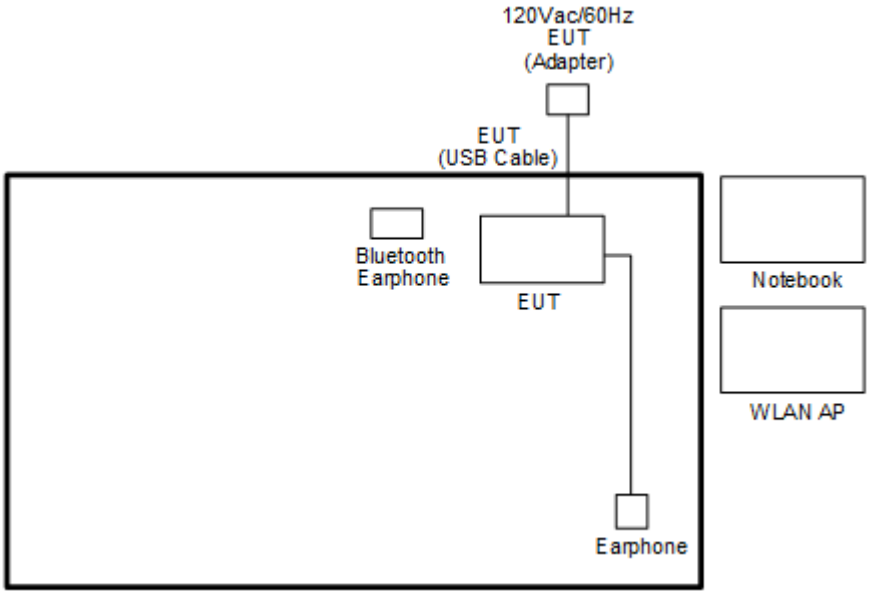
Test Cases	
AC Conducted Emission	Mode 1 :WLAN (2.4GHz) Link + Bluetooth Link + Camera (Rear) + MicroSD Card + Earphone + USB Cable (Charging from Adapter 1)
Remark: For Radiated Test Cases, the tests were performed with Adapter 1.	

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission for WLAN Link Mode>



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-AC1750	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E3340	FCC DoC/ Contains FCC ID: PD97260NGU	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
4.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
6.	Earphone	N/A	N/A	Verification	Unshielded, 1.15 m	N/A

2.5 EUT Operation Test Setup

The RF test items, execute adb command to 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.

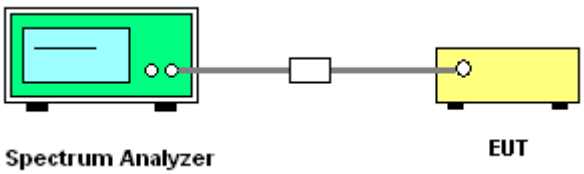
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

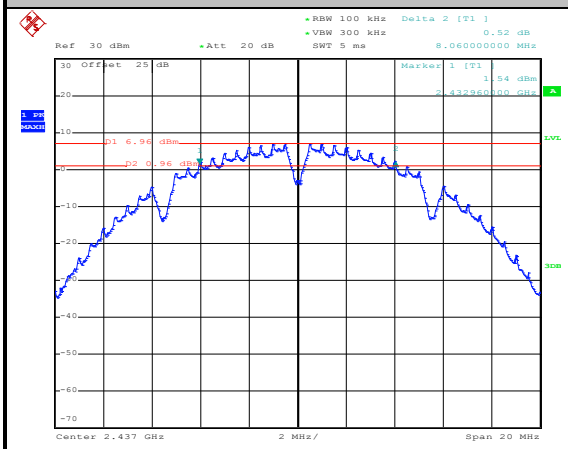
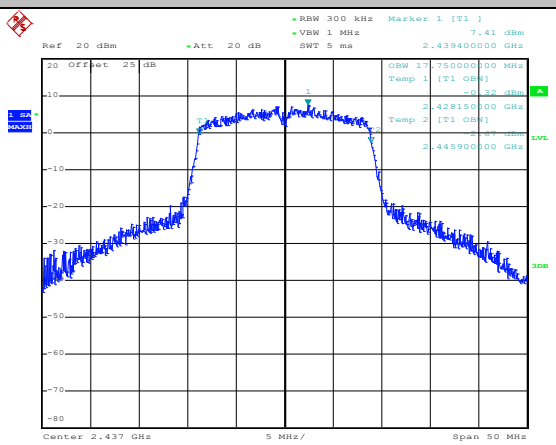
1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit 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) ≥ 3 * RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

Minimum 6dB Bandwidth	Maximum 99% Occupied Bandwidth
	
Date: 28.MAY.2019 00:17:46	Date: 28.MAY.2019 03:35:26

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

3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

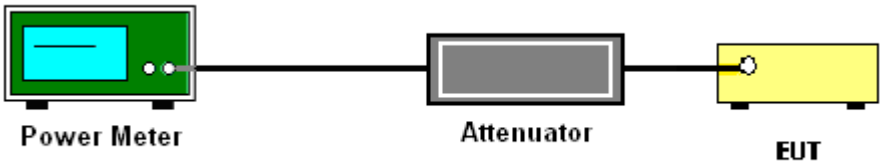
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. 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.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

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.

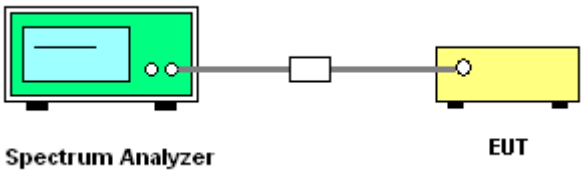
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
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.

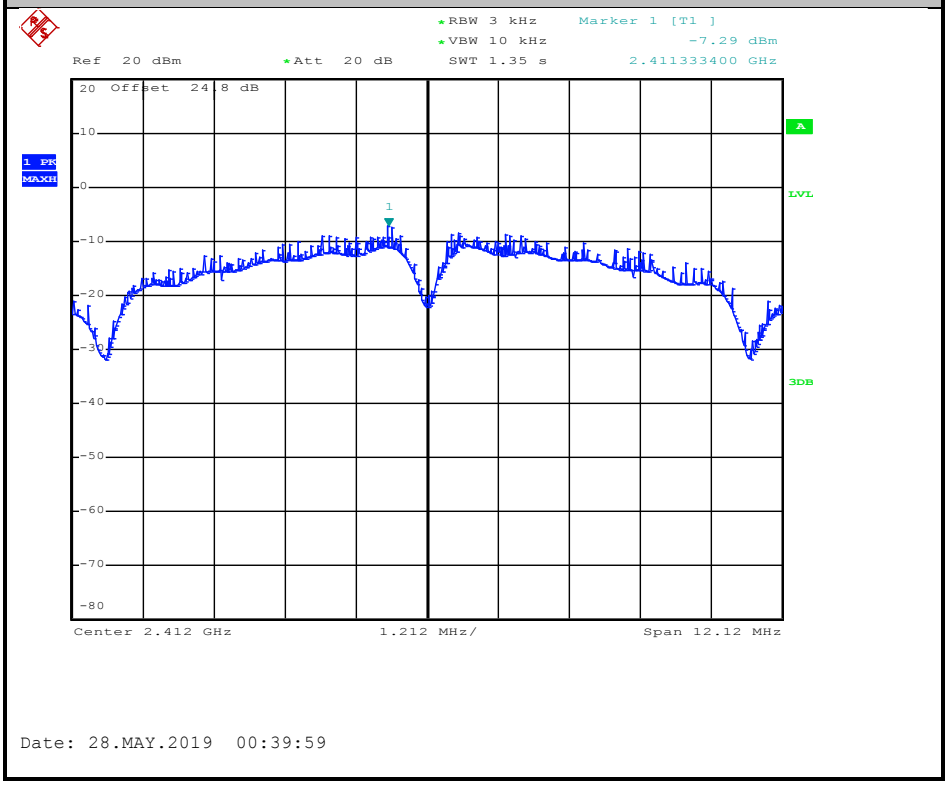
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/3kHz)



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.

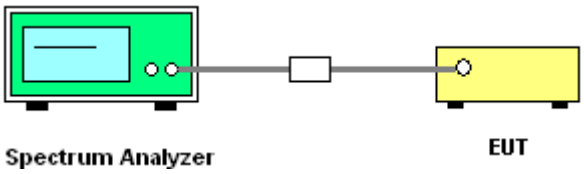
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



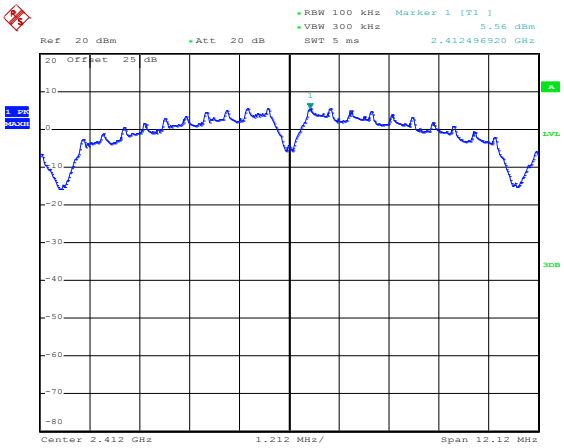
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Luffy Lin	**Temperature :**	21~25℃
		Relative Humidity :	51~54%

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

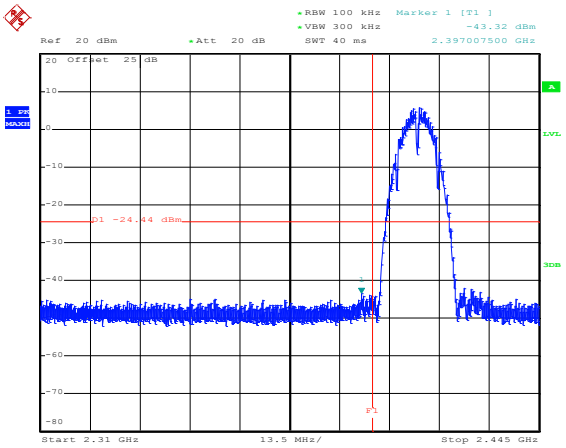
Test Mode :	802.11b	**Test Channel :**	01

100kHz PSD reference Level



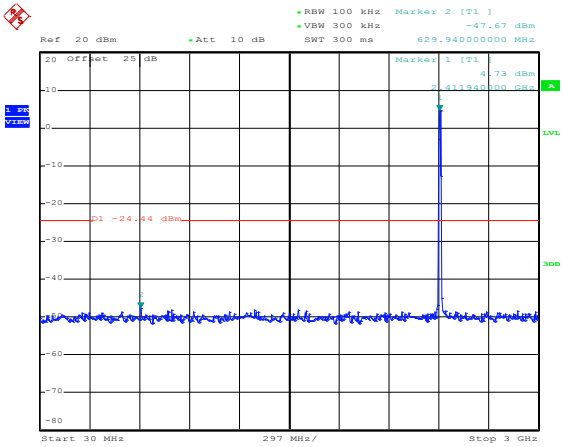
Date: 28.MAY.2019 00:12:09

Channel Plot



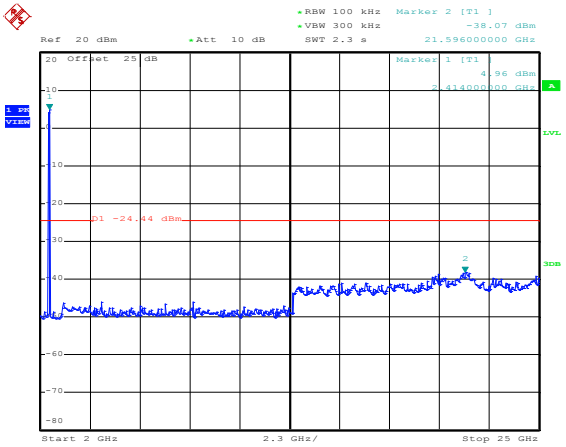
Date: 28.MAY.2019 00:12:29

Spurious Emission 30MHz~3GHz



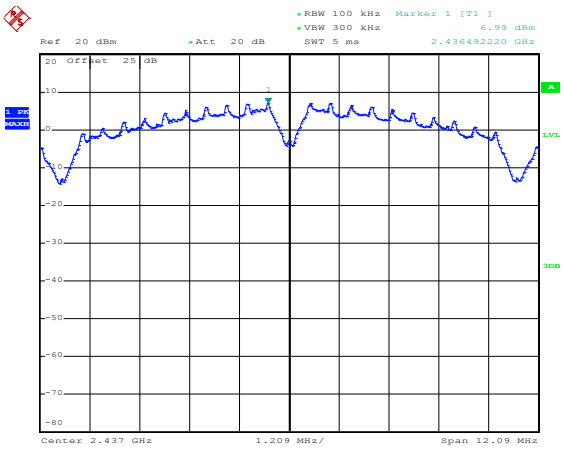
Date: 28.MAY.2019 00:12:55

Spurious Emission 2GHz~25GHz

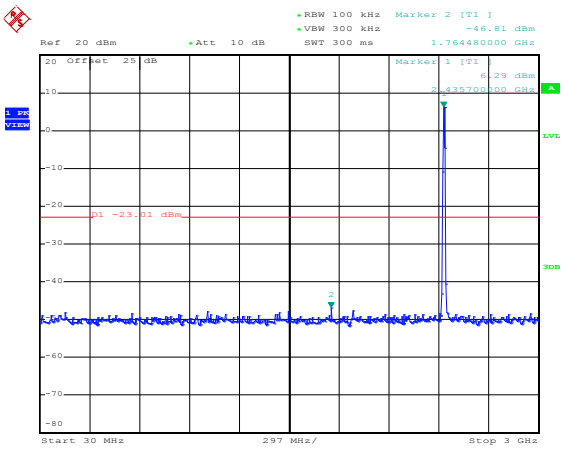
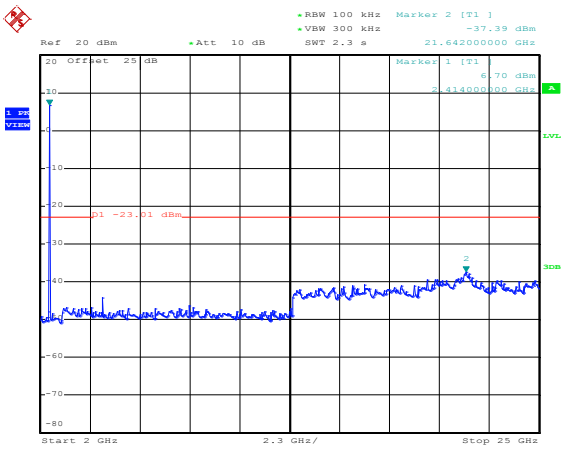


Date: 28.MAY.2019 00:13:12

Test Mode :	802.11b	Test Channel :	06

100kHz PSD reference Level	Channel Plot
	

Date: 28.MAY.2019 00:19:00

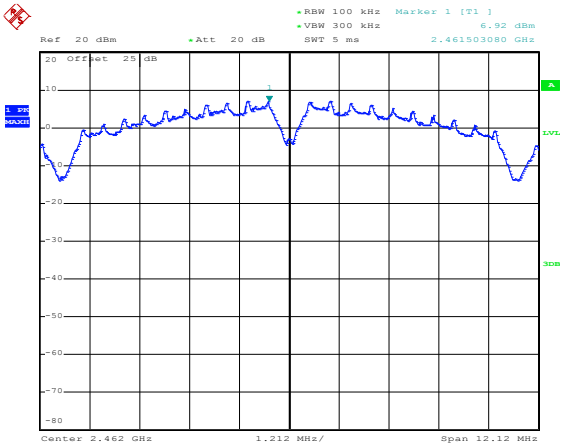
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

Date: 28.MAY.2019 00:19:23

Date: 28.MAY.2019 00:19:39

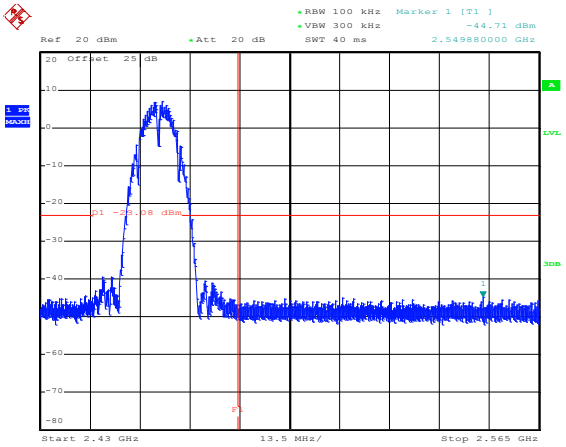
Test Mode :	802.11b	Test Channel :	11

100kHz PSD reference Level



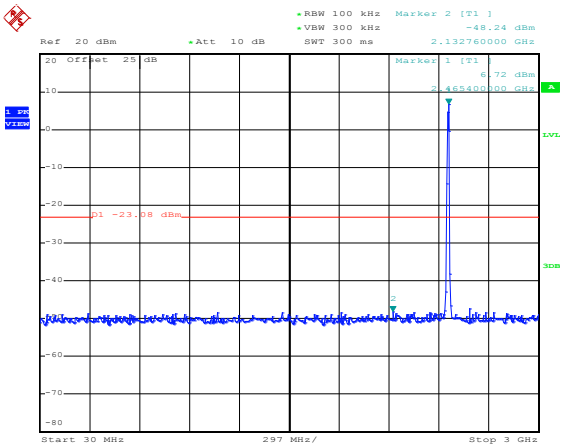
Date: 28.MAY.2019 00:23:16

Channel Plot



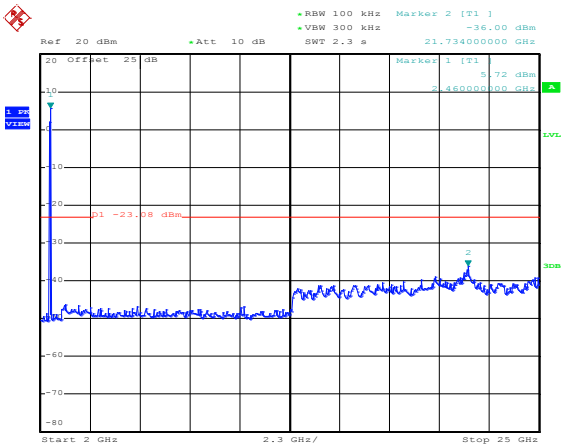
Date: 28.MAY.2019 00:23:32

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 00:23:49

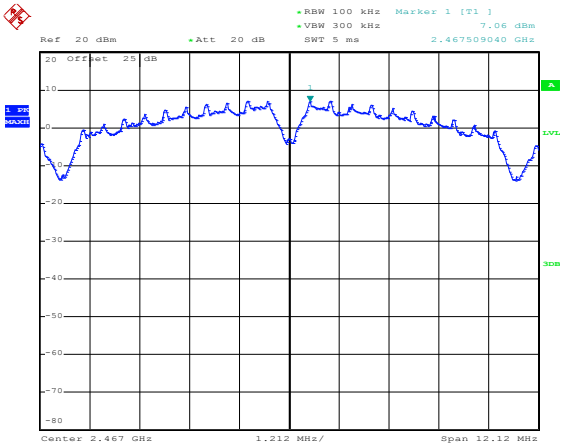
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 00:24:06

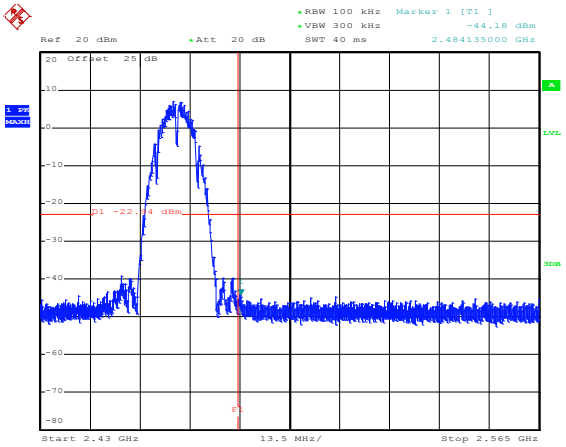
Test Mode :	802.11b	Test Channel :	12

100kHz PSD reference Level



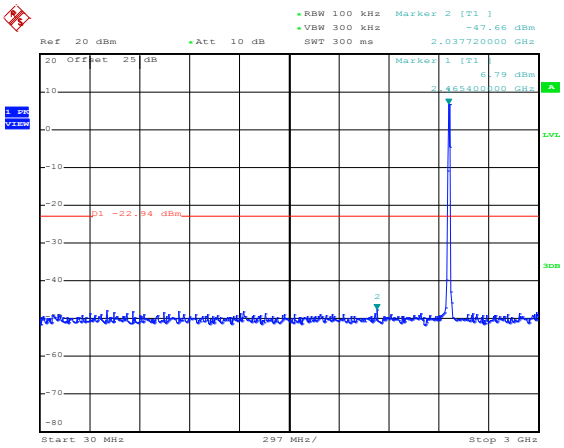
Date: 28.MAY.2019 00:29:29

Channel Plot



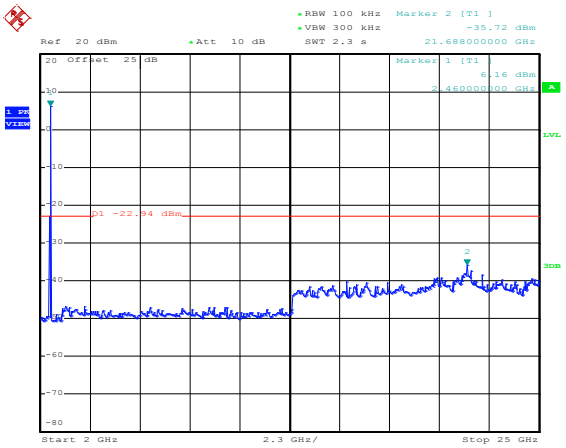
Date: 28.MAY.2019 00:29:45

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 00:30:03

Spurious Emission 2GHz~25GHz



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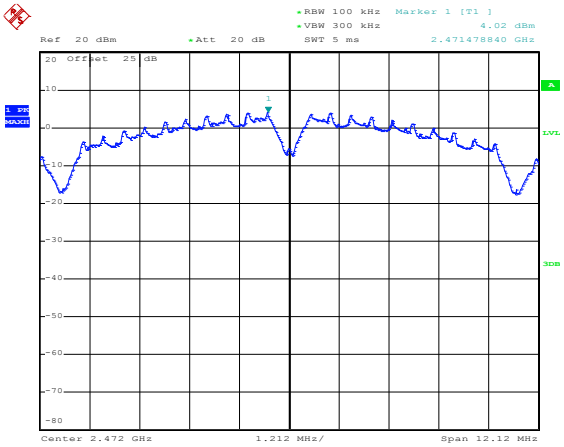
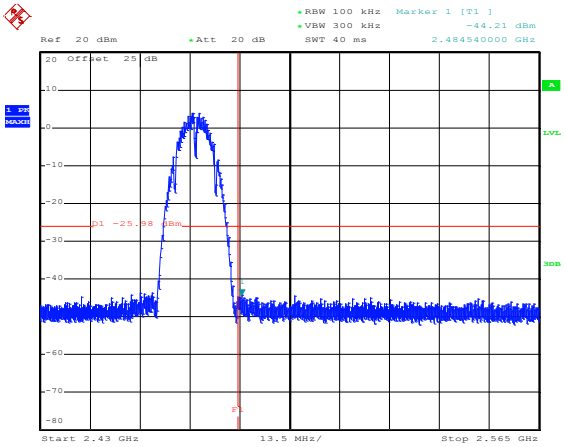
Test Mode :	802.11b	Test Channel :	13

100kHz PSD reference Level



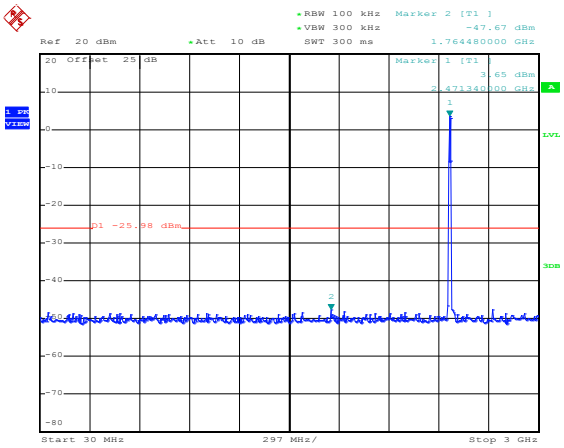
Date: 28.MAY.2019 00:33:09

Channel Plot



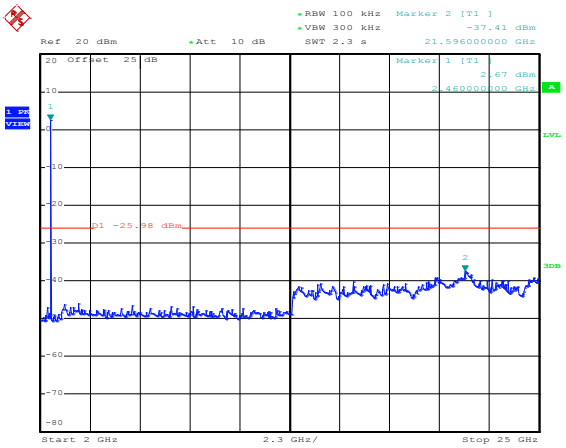
Date: 28.MAY.2019 00:33:27

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 00:33:48

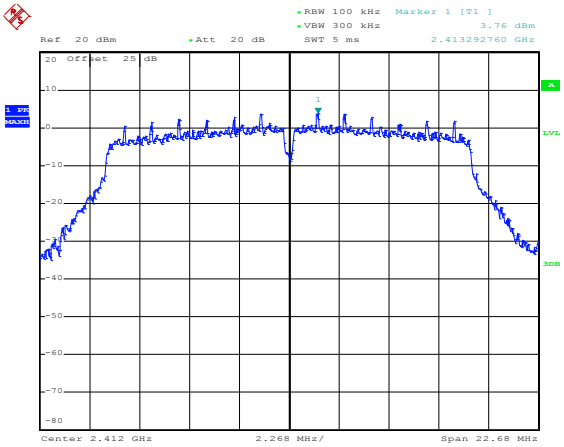
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 00:34:04

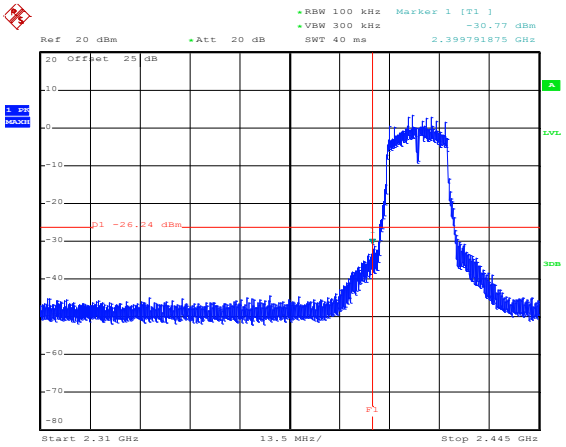
Test Mode :	802.11g	Test Channel :	01

100kHz PSD reference Level



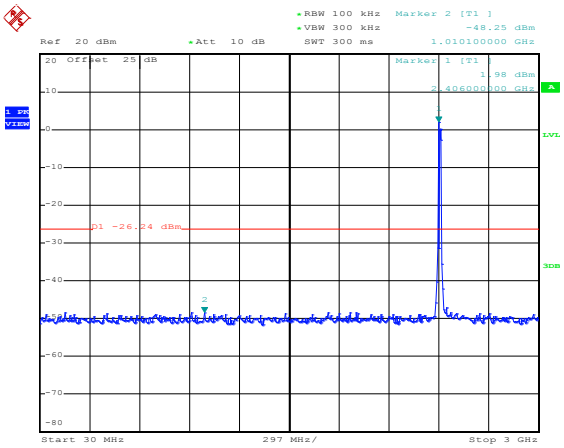
Date: 28.MAY.2019 02:06:49

Channel Plot



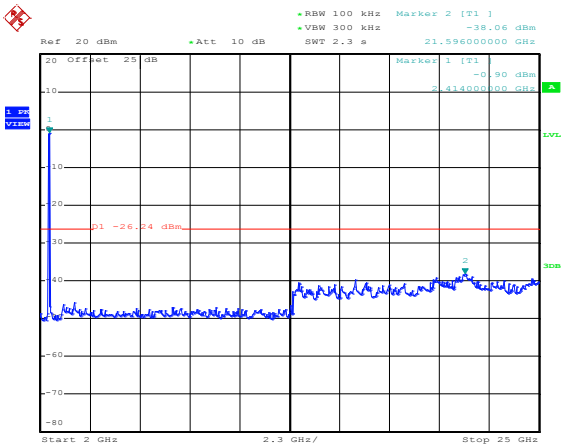
Date: 28.MAY.2019 02:07:06

Spurious Emission 30MHz~3GHz



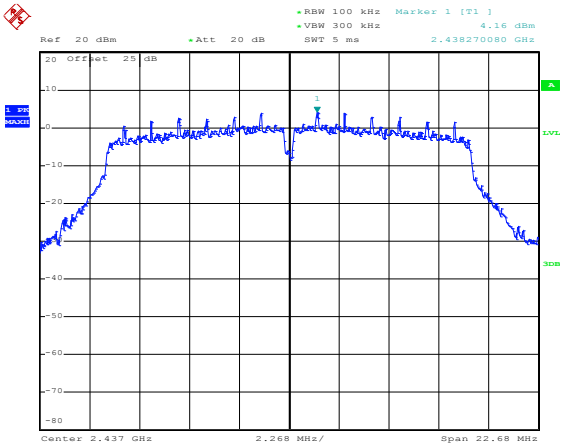
Date: 28.MAY.2019 02:07:27

Spurious Emission 2GHz~25GHz

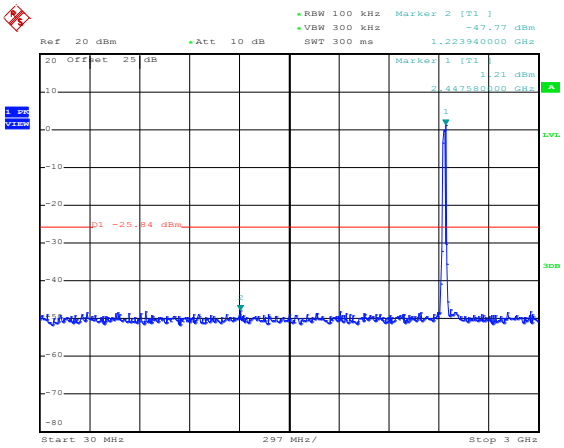
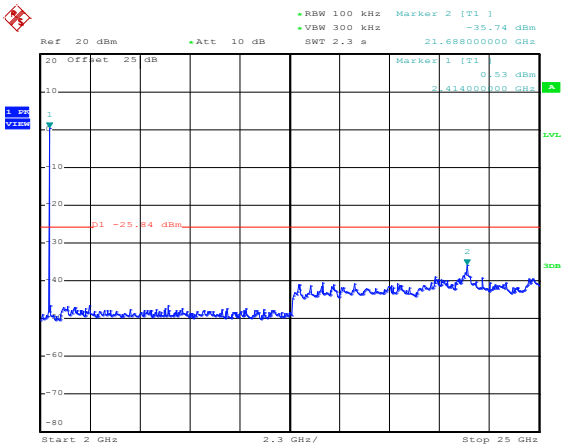


Date: 28.MAY.2019 02:07:46

Test Mode :	802.11g	Test Channel :	06

100kHz PSD reference Level	Channel Plot
	

Date: 28.MAY.2019 02:11:04

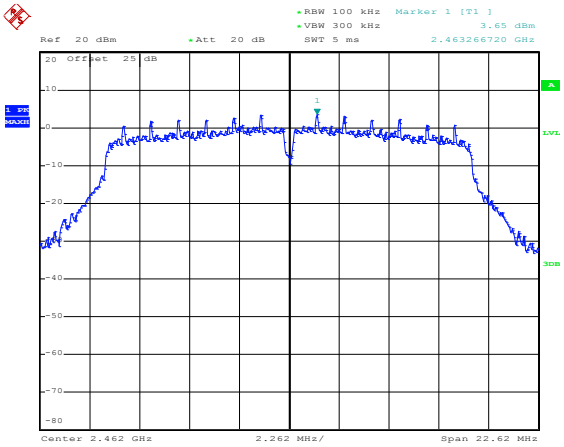
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

Date: 28.MAY.2019 02:11:26

Date: 28.MAY.2019 02:11:41

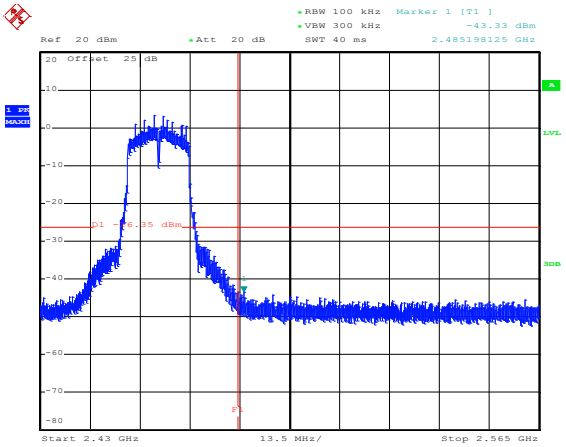
Test Mode :	802.11g	Test Channel :	11

100kHz PSD reference Level



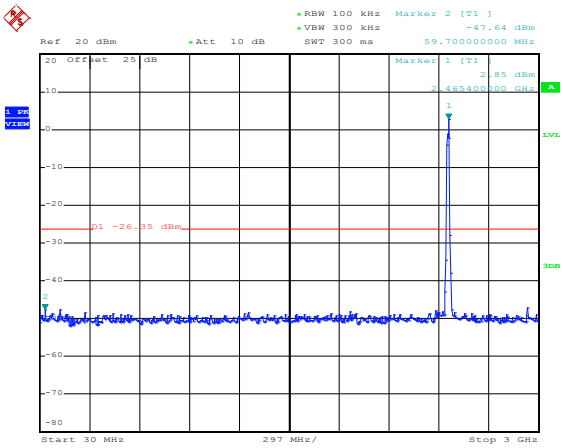
Date: 28.MAY.2019 02:15:21

Channel Plot



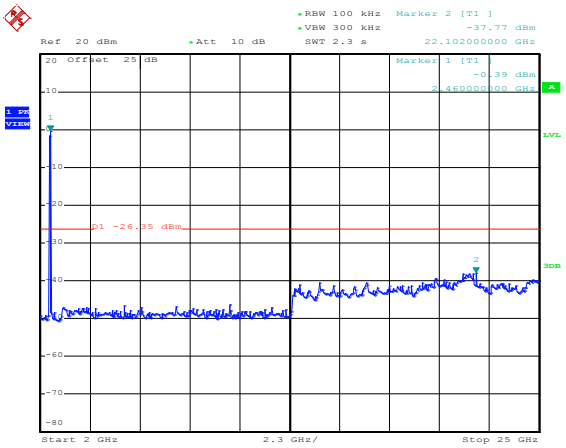
Date: 28.MAY.2019 02:15:46

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 02:16:09

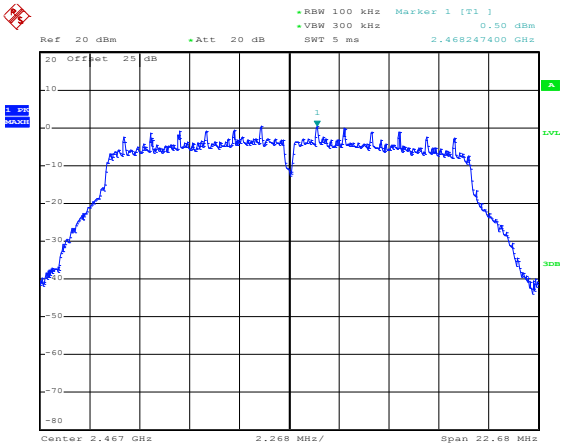
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 02:16:25

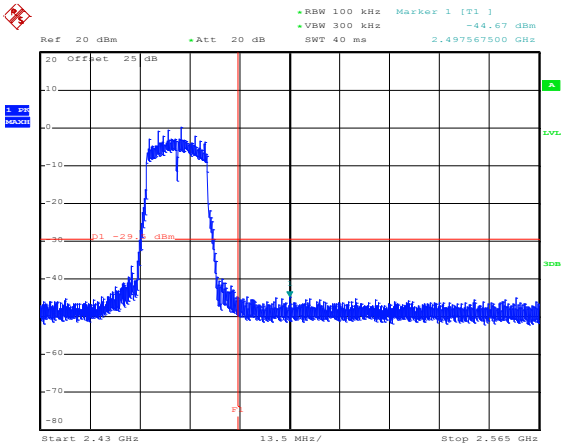
Test Mode :	802.11g	Test Channel :	12

100kHz PSD reference Level



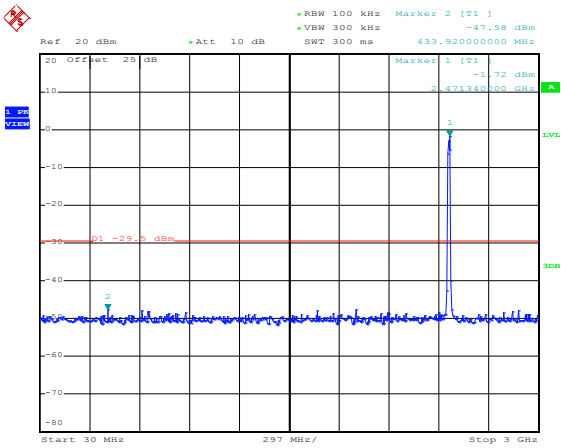
Date: 28.MAY.2019 02:20:25

Channel Plot



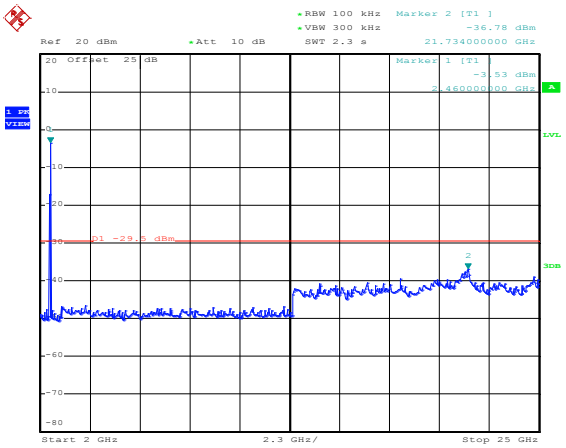
Date: 28.MAY.2019 02:20:48

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 02:21:13

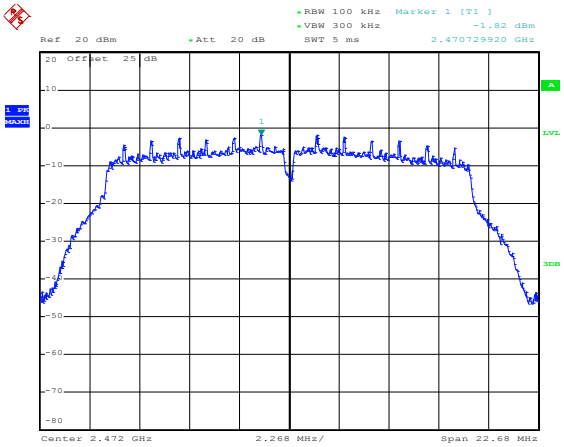
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 02:21:33

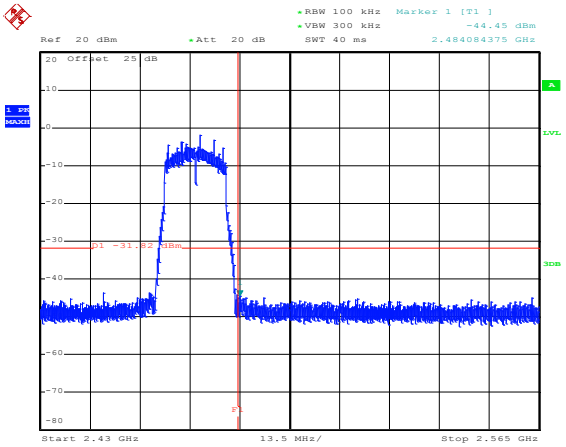
Test Mode :	802.11g	Test Channel :	13

100kHz PSD reference Level



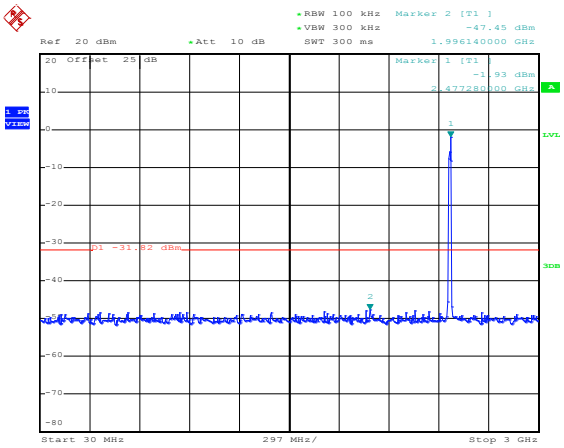
Date: 28.MAY.2019 02:25:10

Channel Plot



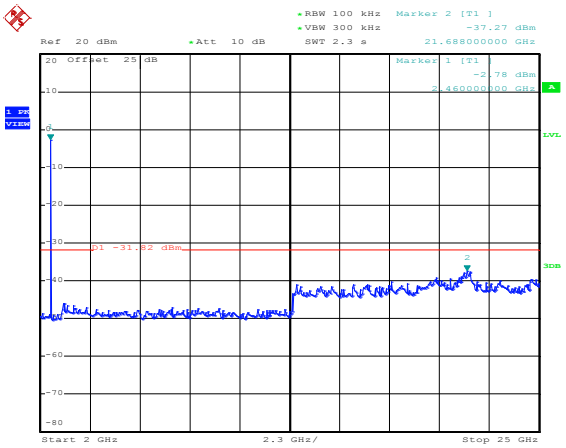
Date: 28.MAY.2019 02:25:28

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 02:25:54

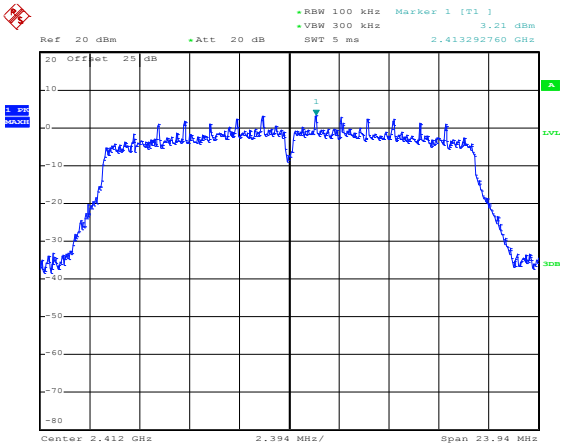
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 02:26:10

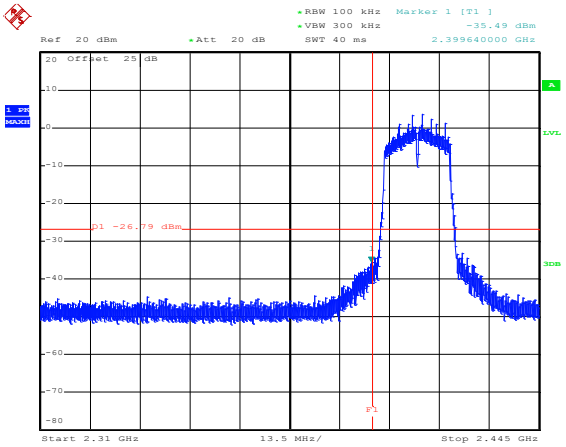
Test Mode :	802.11n HT20	Test Channel :	01

100kHz PSD reference Level



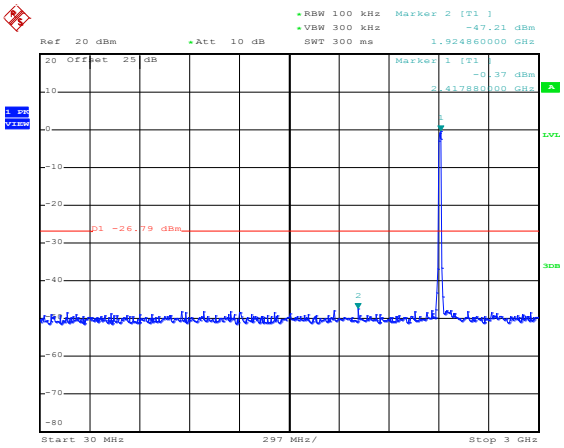
Date: 28.MAY.2019 03:28:59

Channel Plot



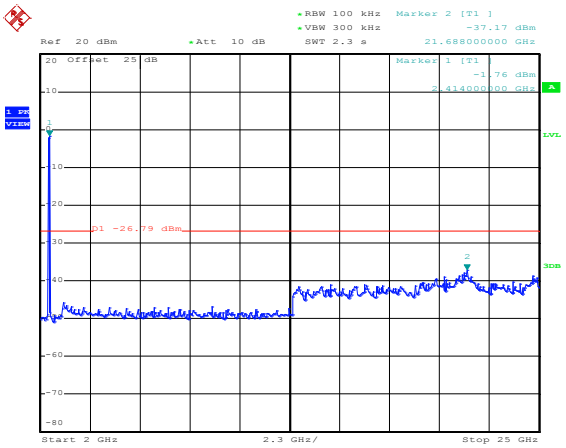
Date: 28.MAY.2019 03:29:21

Spurious Emission 30MHz~3GHz



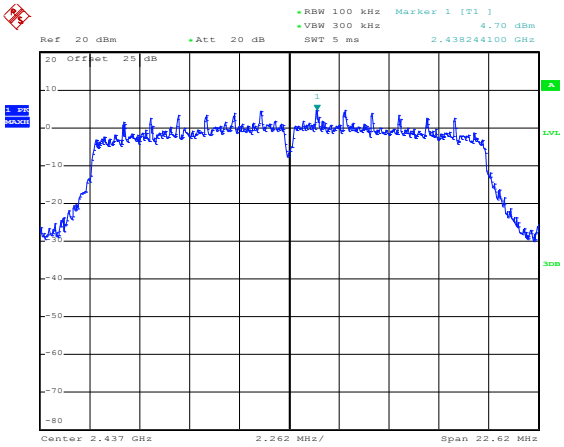
Date: 28.MAY.2019 03:29:48

Spurious Emission 2GHz~25GHz

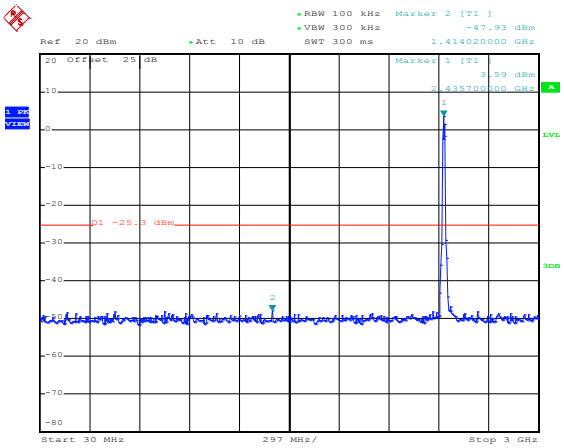
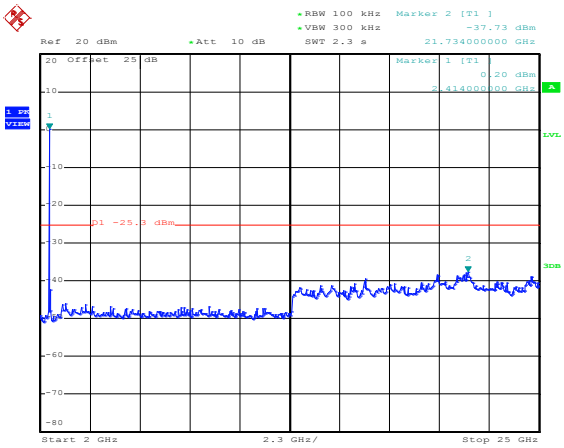


Date: 28.MAY.2019 03:30:06

Test Mode :	802.11n HT20	Test Channel :	06

100kHz PSD reference Level	Channel Plot
	

Date: 28.MAY.2019 03:34:02

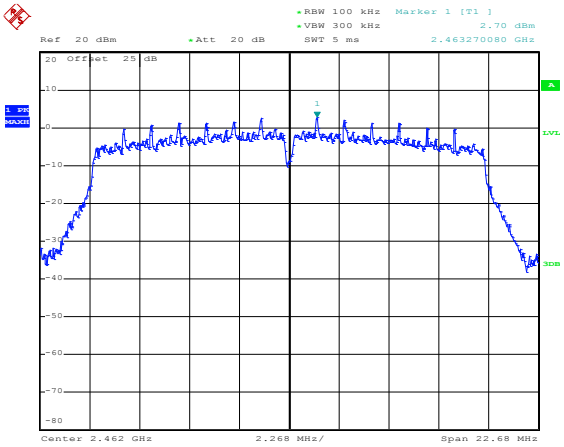
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

Date: 28.MAY.2019 03:34:20

Date: 28.MAY.2019 03:34:35

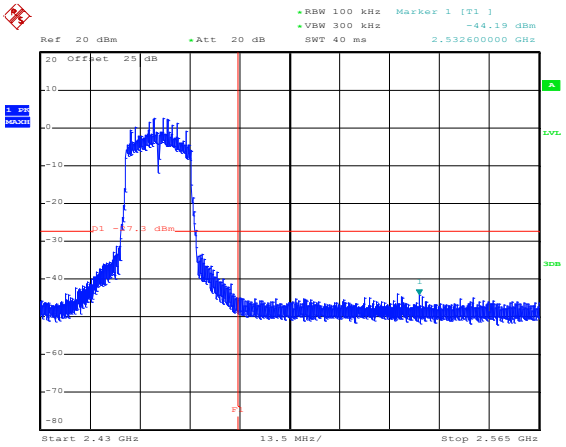
Test Mode :	802.11n HT20	Test Channel :	11

100kHz PSD reference Level



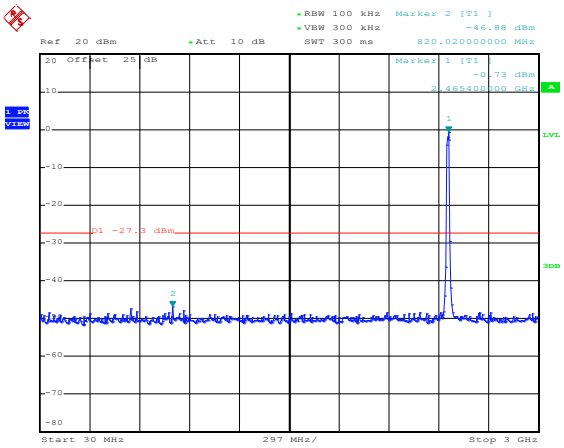
Date: 28.MAY.2019 03:40:53

Channel Plot



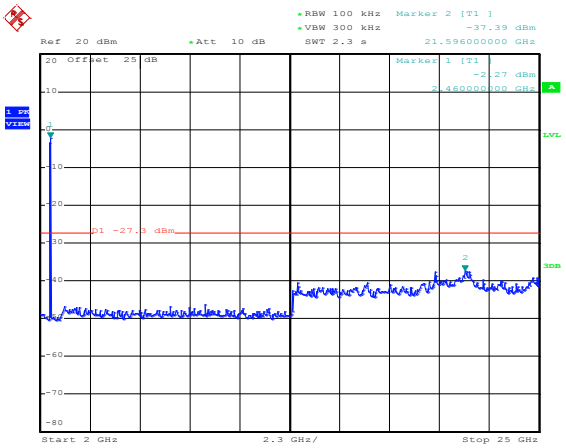
Date: 28.MAY.2019 03:41:13

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 03:41:33

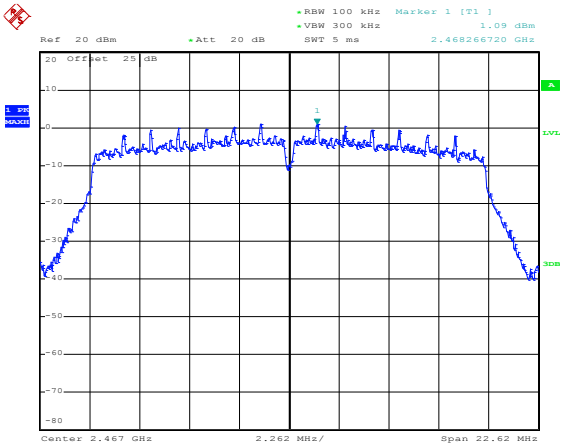
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 03:41:50

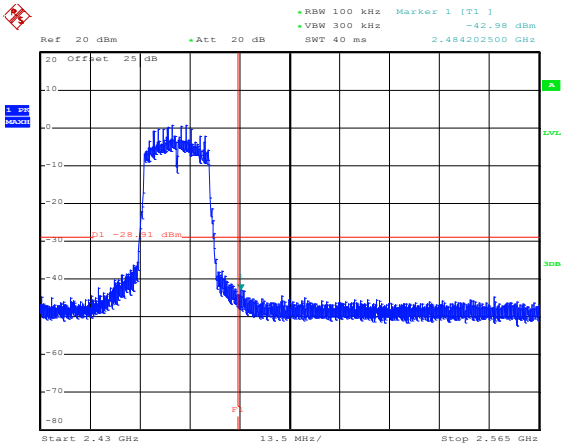
Test Mode :	802.11n HT20	Test Channel :	12

100kHz PSD reference Level



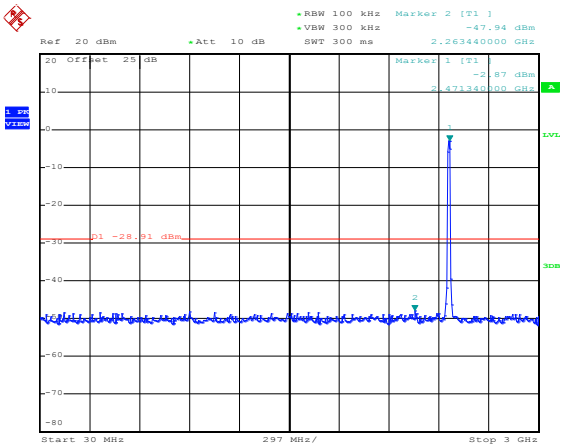
Date: 28.MAY.2019 03:44:43

Channel Plot



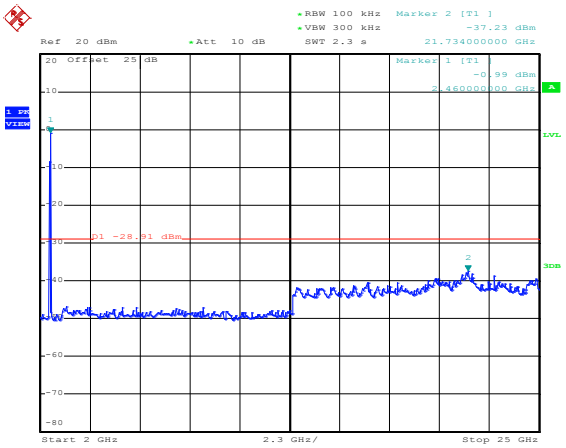
Date: 28.MAY.2019 03:45:04

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 03:45:22

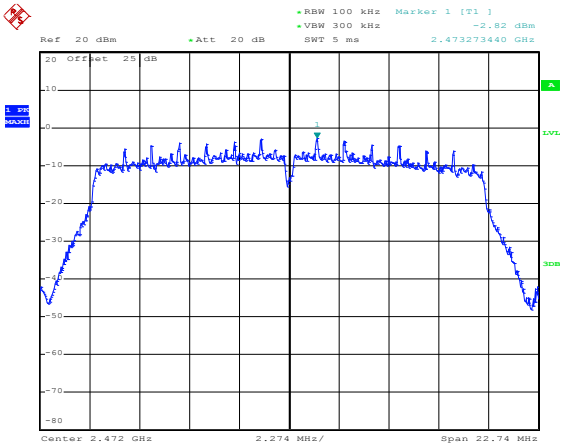
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 03:45:40

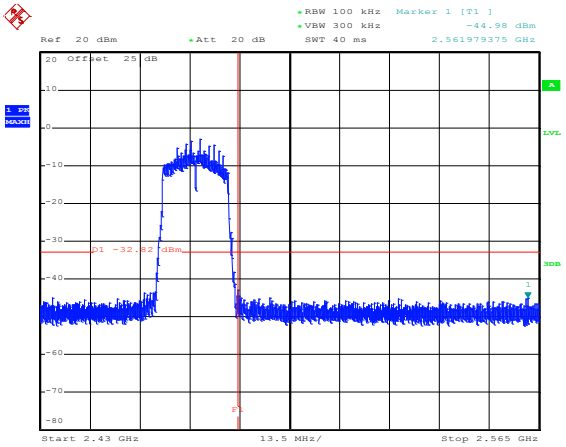
Test Mode :	802.11n HT20	Test Channel :	13

100kHz PSD reference Level



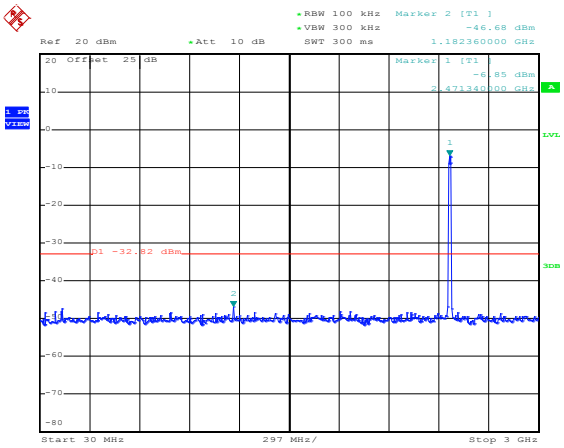
Date: 28.MAY.2019 03:49:03

Channel Plot



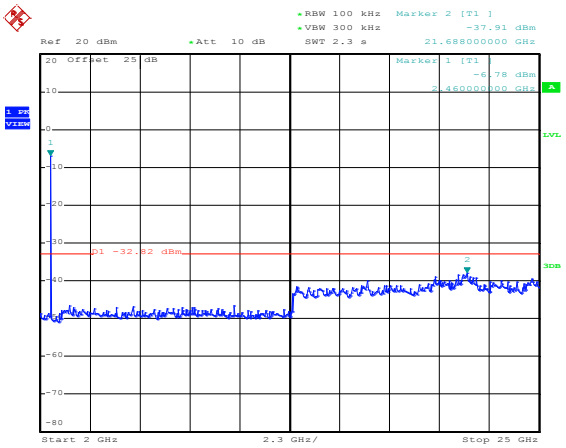
Date: 28.MAY.2019 03:49:18

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 03:49:33

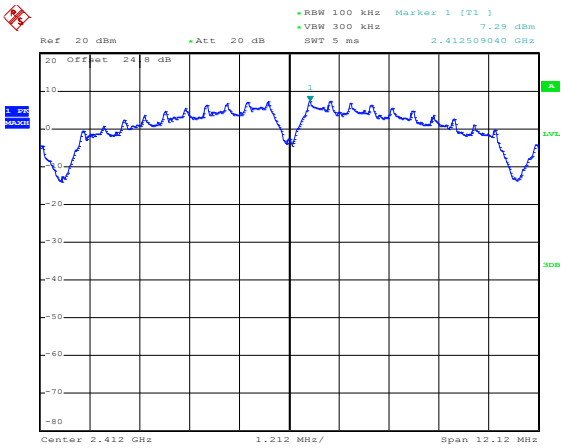
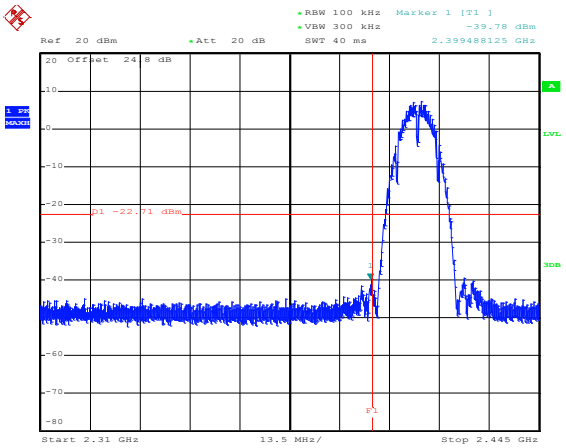
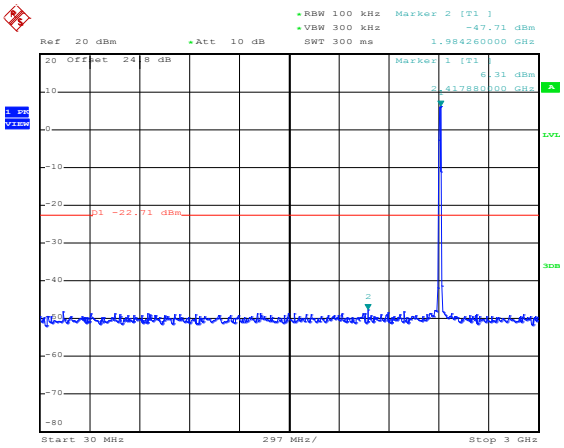
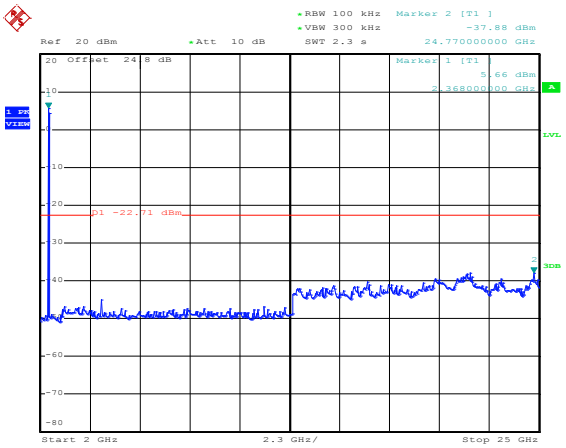
Spurious Emission 2GHz~25GHz



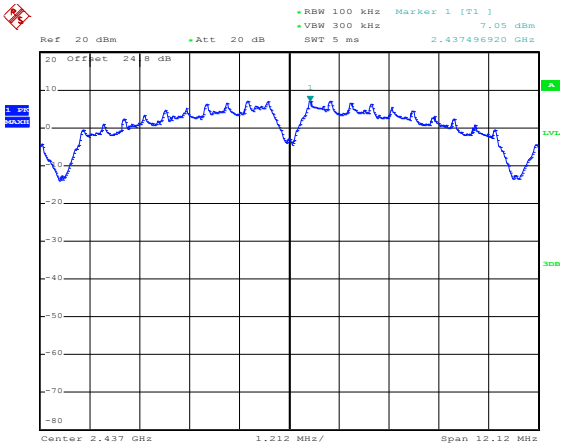
Date: 28.MAY.2019 03:49:48

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

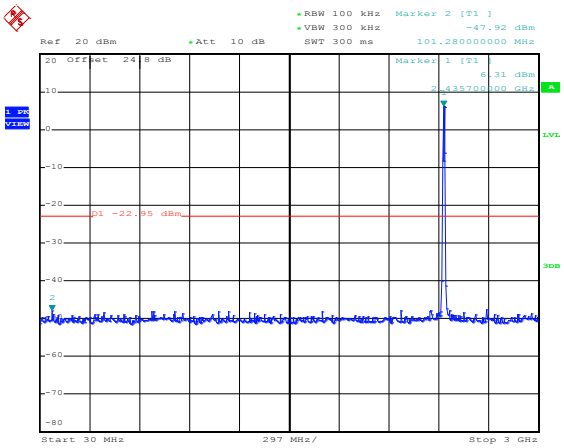
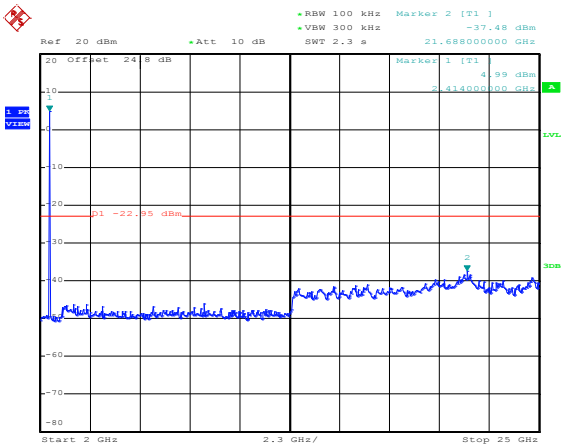
Test Mode :	802.11b	Test Channel :	01

100kHz PSD reference Level	Channel Plot
	
Date: 28.MAY.2019 00:40:25	Date: 28.MAY.2019 00:40:52
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	
Date: 28.MAY.2019 00:41:18	Date: 28.MAY.2019 00:41:34

Test Mode :	802.11b	Test Channel :	06

100kHz PSD reference Level	Channel Plot
	

Date: 28.MAY.2019 01:47:34

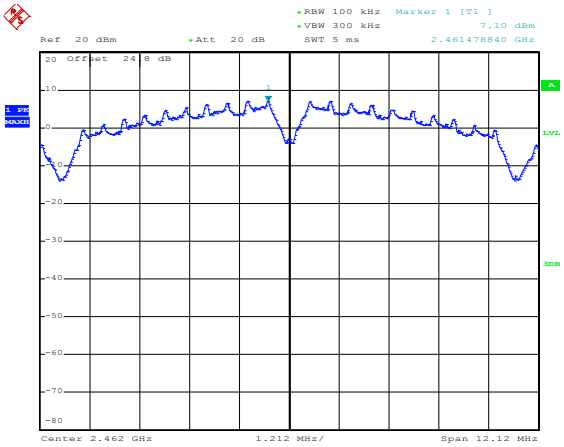
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

Date: 28.MAY.2019 01:48:12

Date: 28.MAY.2019 01:48:29

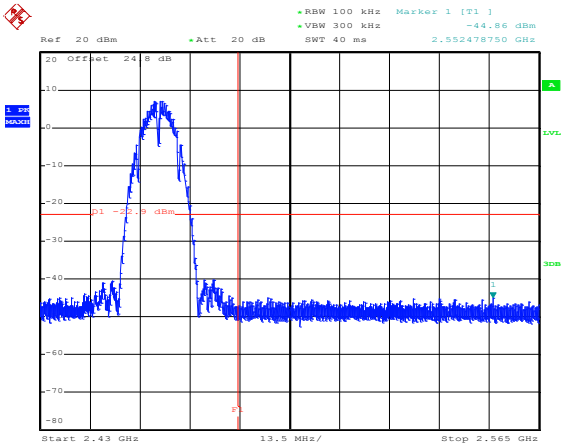
Test Mode :	802.11b	Test Channel :	11

100kHz PSD reference Level



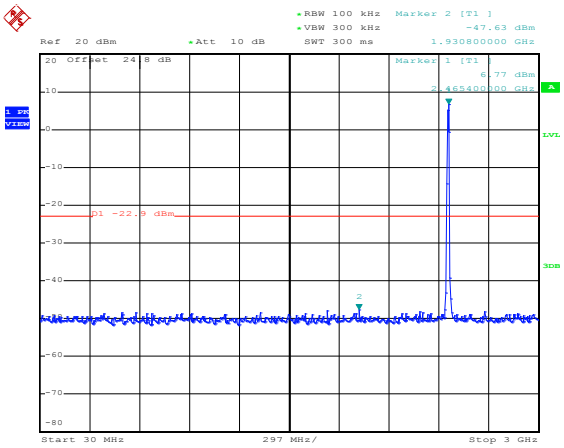
Date: 28.MAY.2019 01:51:52

Channel Plot



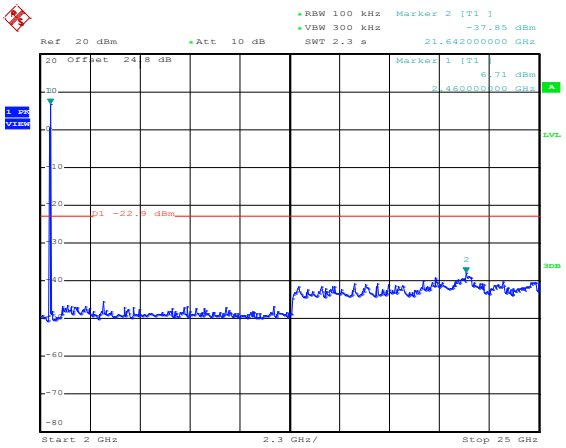
Date: 28.MAY.2019 01:52:17

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 01:52:33

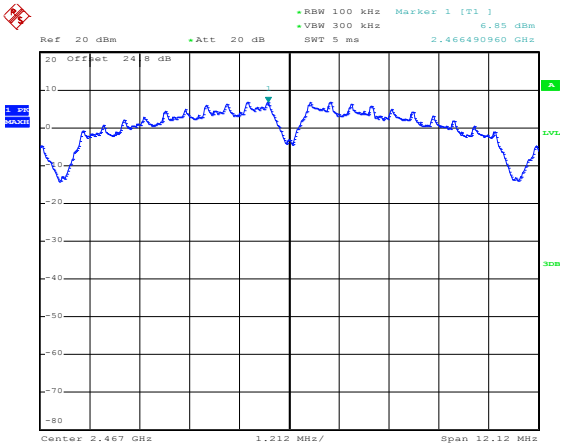
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 01:52:51

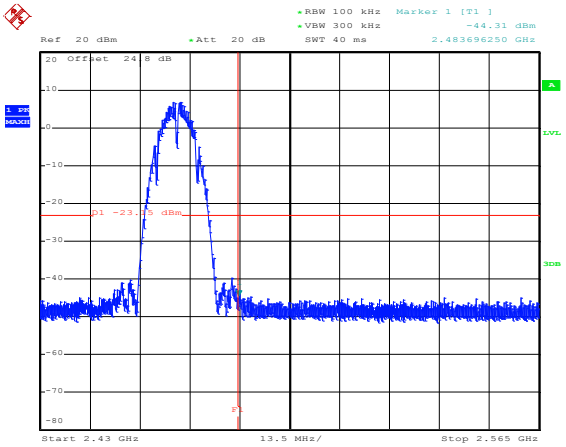
Test Mode :	802.11b	Test Channel :	12

100kHz PSD reference Level



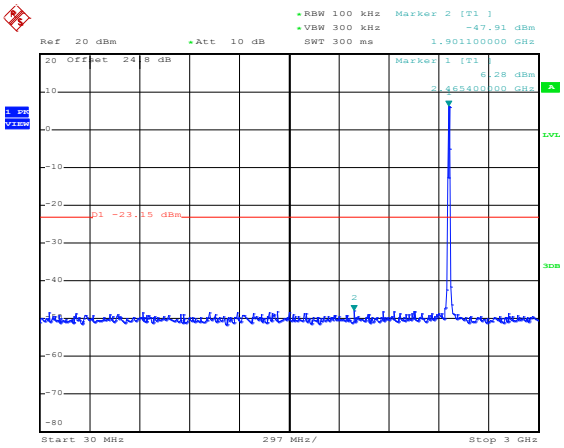
Date: 28.MAY.2019 01:56:10

Channel Plot



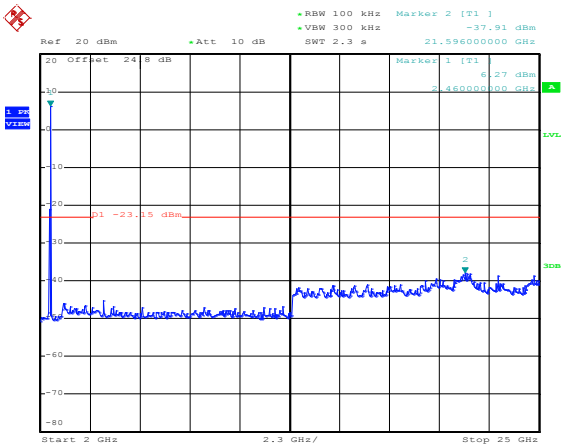
Date: 28.MAY.2019 01:56:33

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 01:56:50

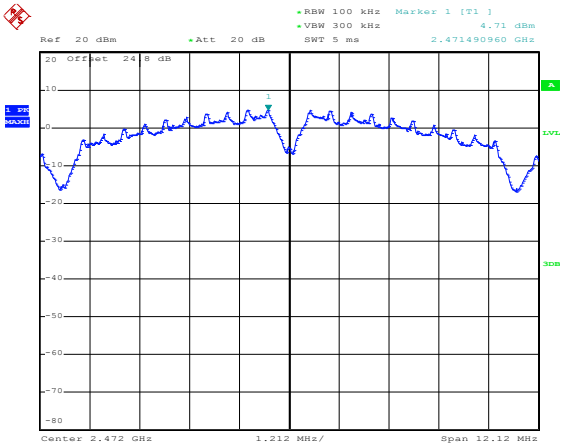
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 01:57:05

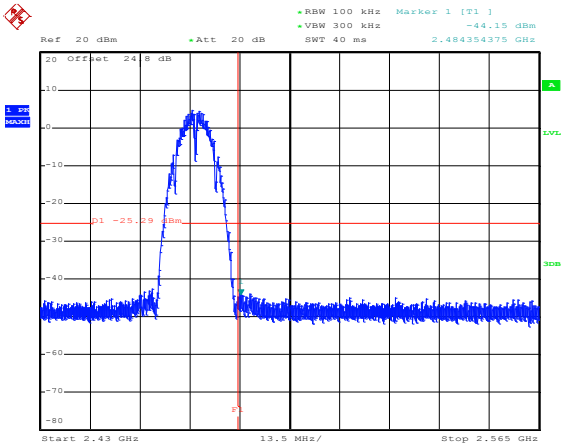
Test Mode :	802.11b	Test Channel :	13

100kHz PSD reference Level



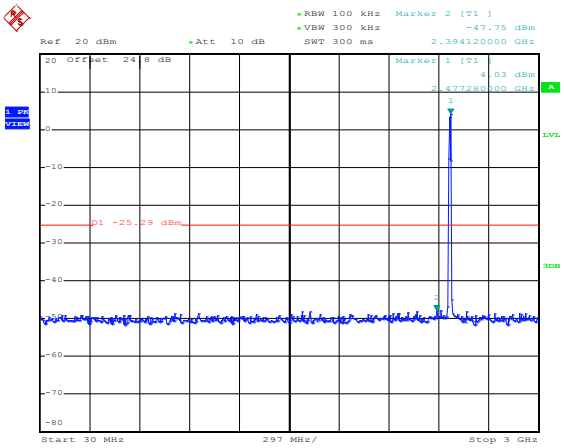
Date: 28.MAY.2019 02:00:45

Channel Plot



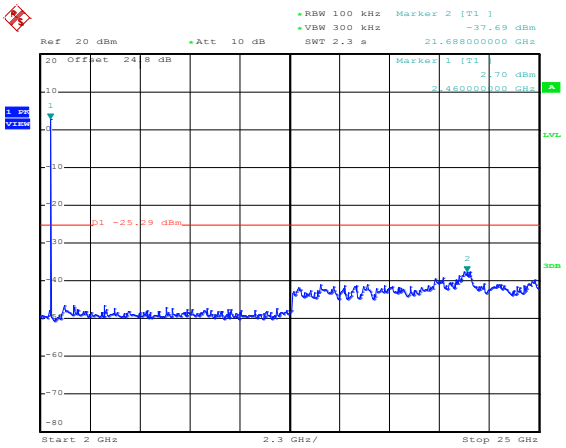
Date: 28.MAY.2019 02:01:09

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 02:01:50

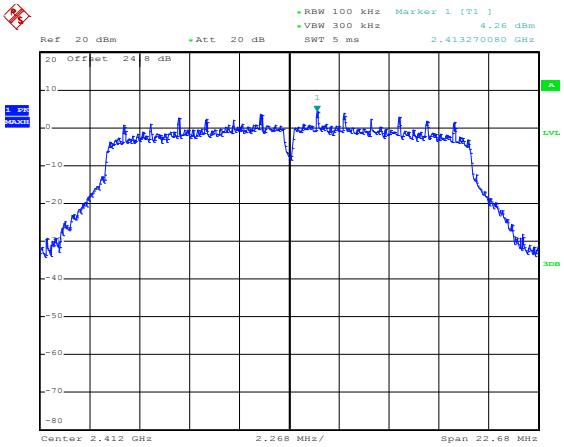
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 02:02:04

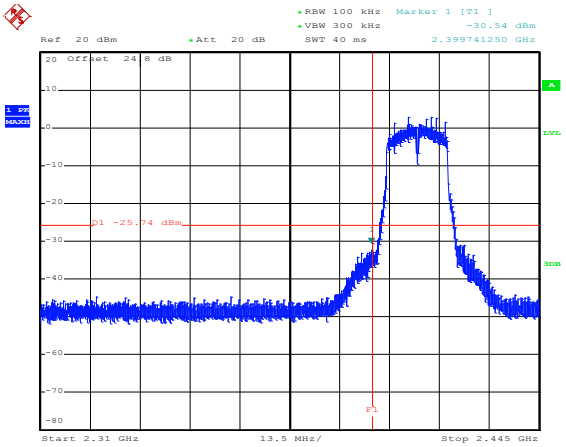
Test Mode :	802.11g	Test Channel :	01

100kHz PSD reference Level



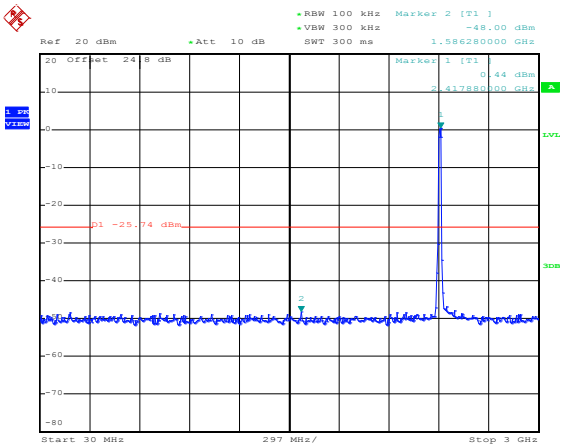
Date: 28.MAY.2019 02:30:31

Channel Plot



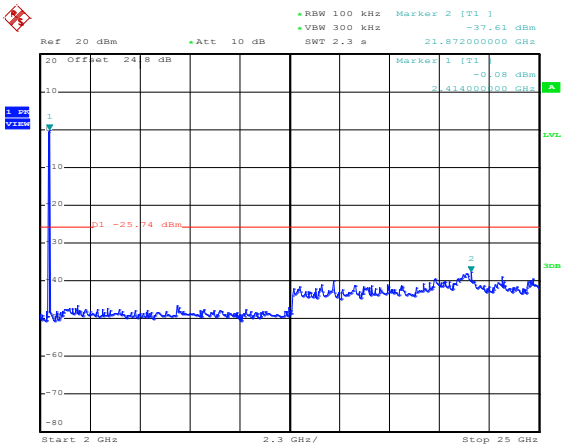
Date: 28.MAY.2019 02:30:56

Spurious Emission 30MHz~3GHz



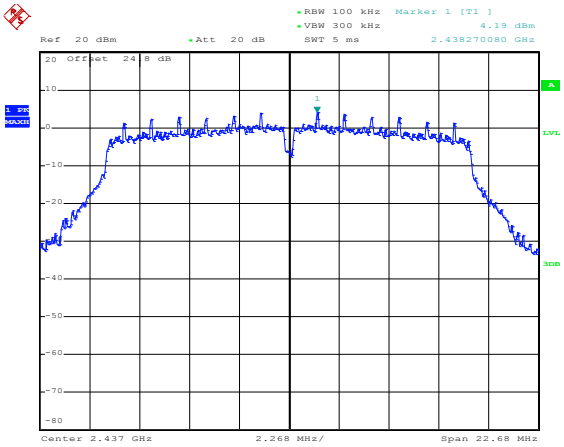
Date: 28.MAY.2019 02:31:18

Spurious Emission 2GHz~25GHz

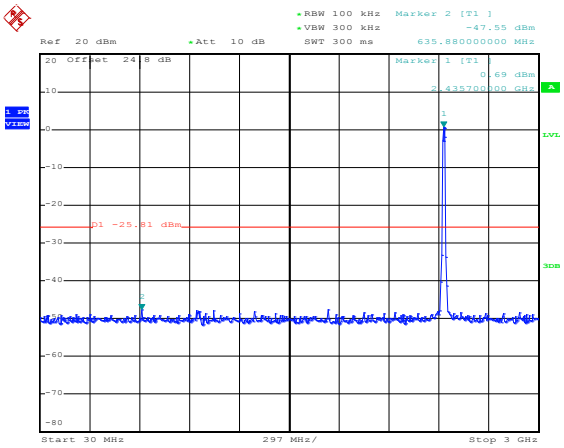
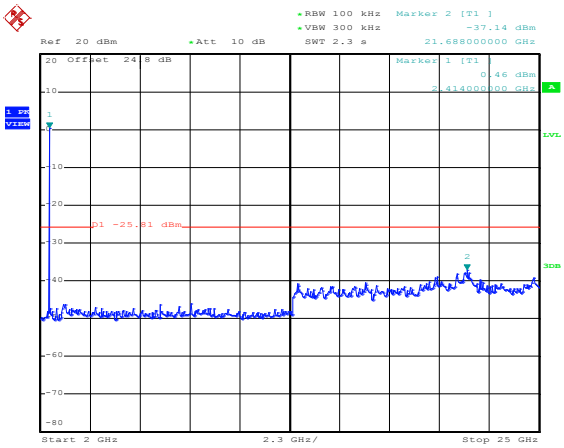


Date: 28.MAY.2019 02:31:34

Test Mode :	802.11g	Test Channel :	06

100kHz PSD reference Level	Channel Plot
	

Date: 28.MAY.2019 02:34:48

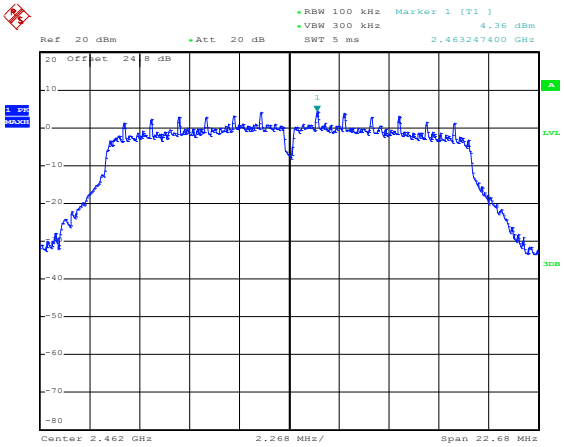
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

Date: 28.MAY.2019 02:35:23

Date: 28.MAY.2019 02:35:43

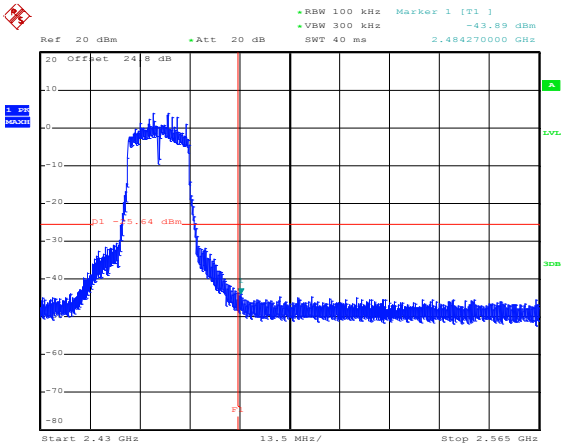
Test Mode :	802.11g	Test Channel :	11

100kHz PSD reference Level



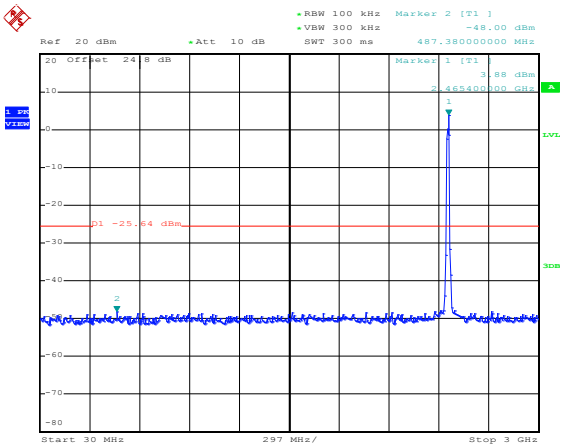
Date: 28.MAY.2019 02:39:26

Channel Plot



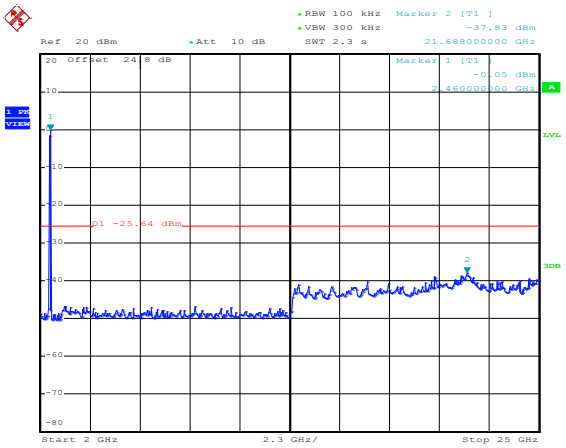
Date: 28.MAY.2019 02:39:44

Spurious Emission 30MHz~3GHz



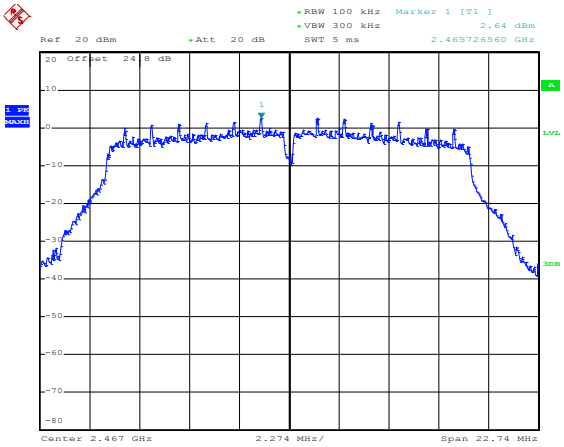
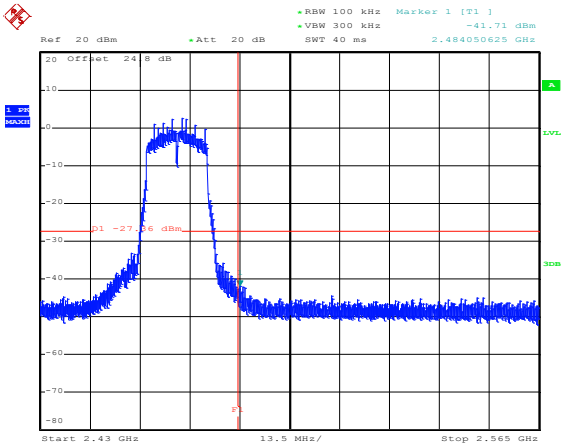
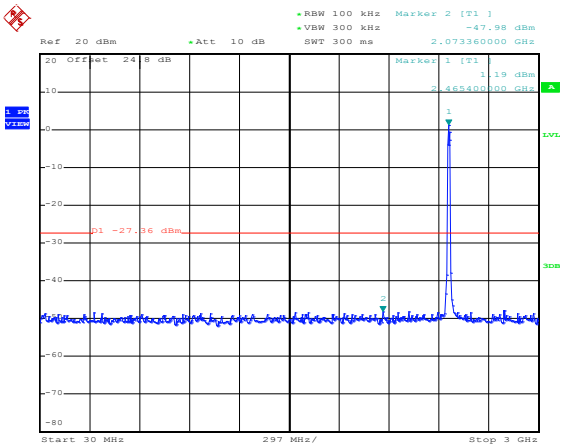
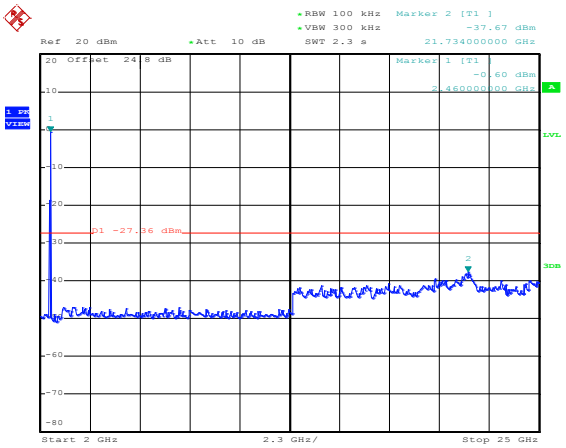
Date: 28.MAY.2019 02:40:04

Spurious Emission 2GHz~25GHz



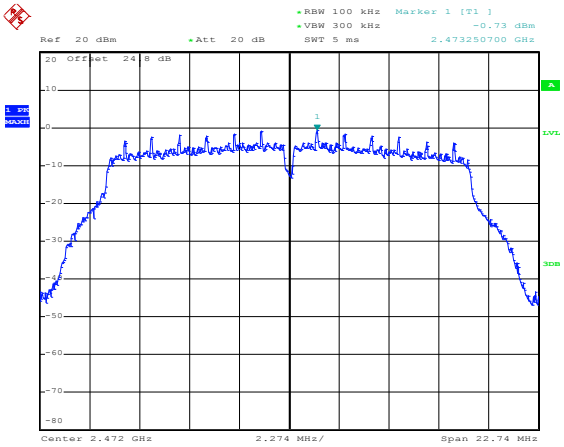
Date: 28.MAY.2019 02:40:21

Test Mode :	802.11g	Test Channel :	12

100kHz PSD reference Level	Channel Plot
	
Date: 28.MAY.2019 02:43:21	Date: 28.MAY.2019 02:43:40
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	
Date: 28.MAY.2019 02:43:57	Date: 28.MAY.2019 02:44:18

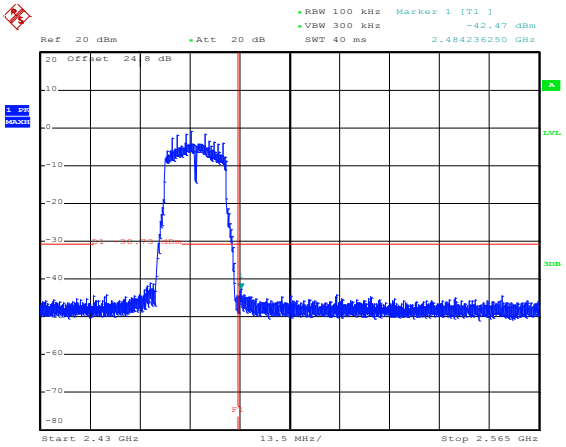
Test Mode :	802.11g	Test Channel :	13

100kHz PSD reference Level



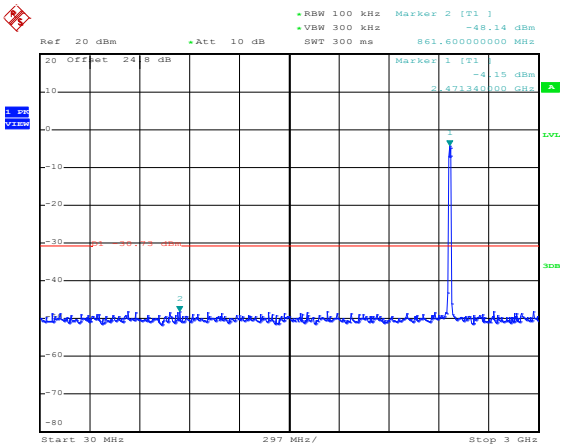
Date: 28.MAY.2019 02:50:46

Channel Plot



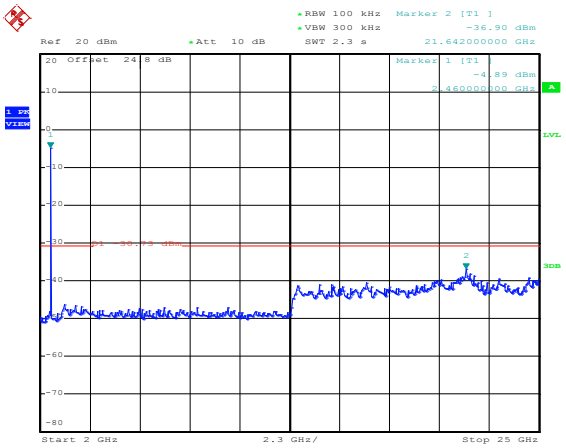
Date: 28.MAY.2019 02:51:18

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 02:51:43

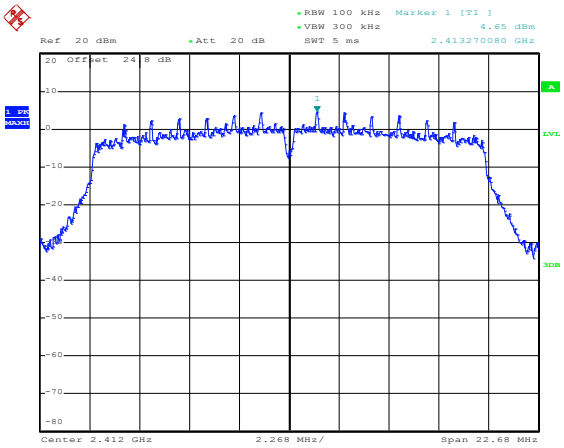
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 02:51:59

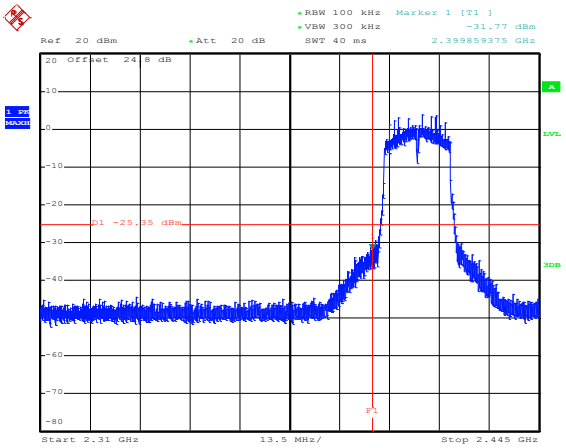
Test Mode :	802.11n HT20	Test Channel :	01

100kHz PSD reference Level



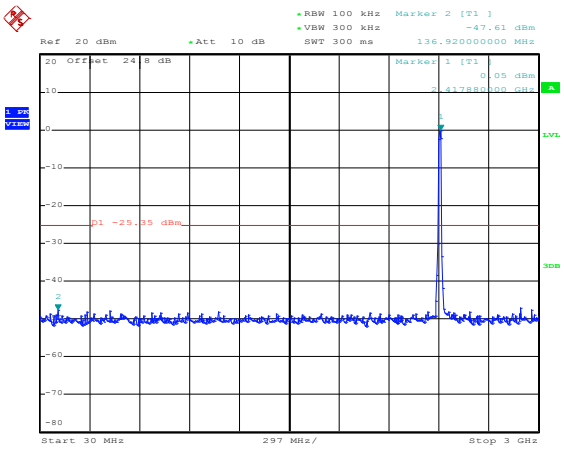
Date: 28.MAY.2019 03:58:11

Channel Plot



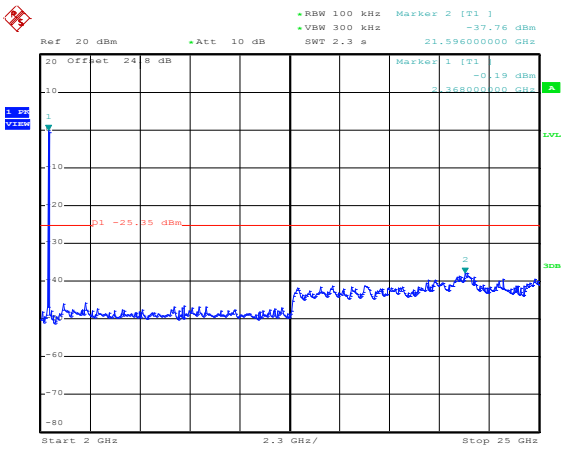
Date: 28.MAY.2019 03:58:30

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 03:58:57

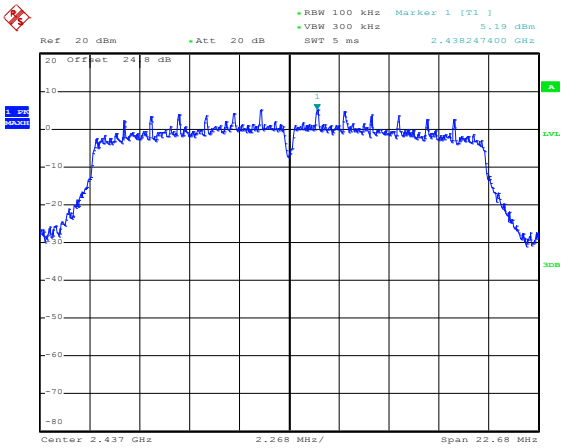
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 03:59:14

Test Mode :	802.11n HT20	Test Channel :	06

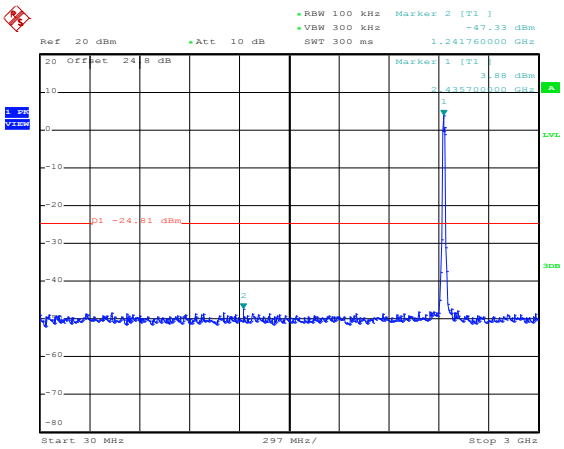
100kHz PSD reference Level



Date: 28.MAY.2019 04:02:17

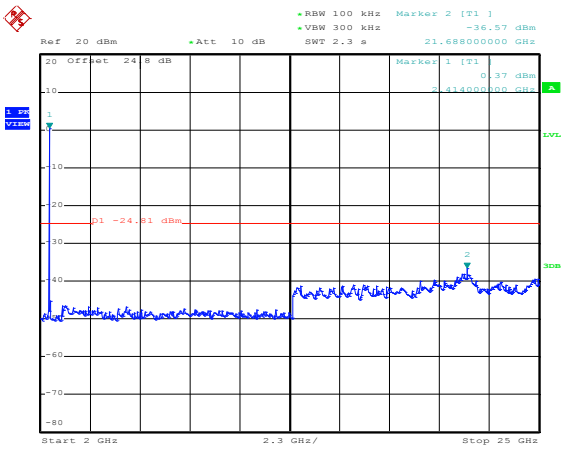
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 04:02:45

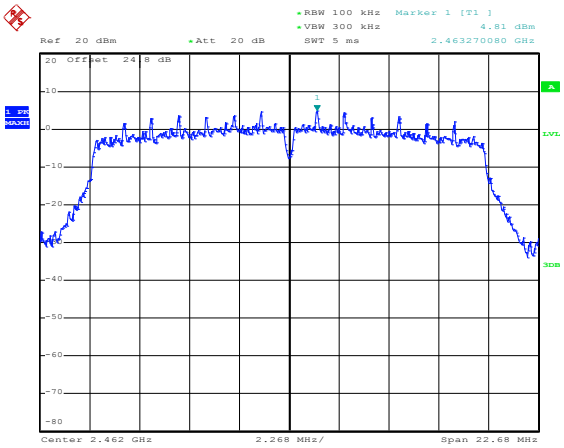
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 04:03:00

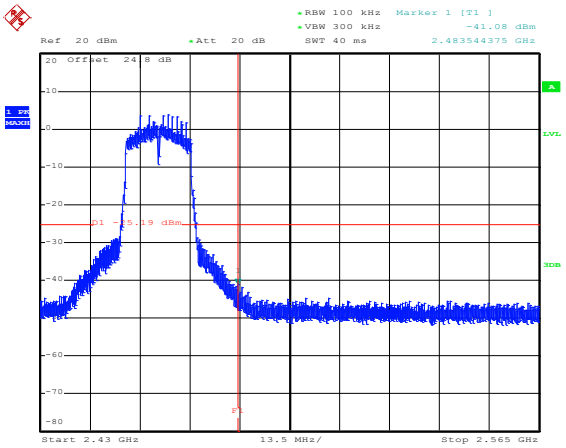
Test Mode :	802.11n HT20	Test Channel :	11

100kHz PSD reference Level



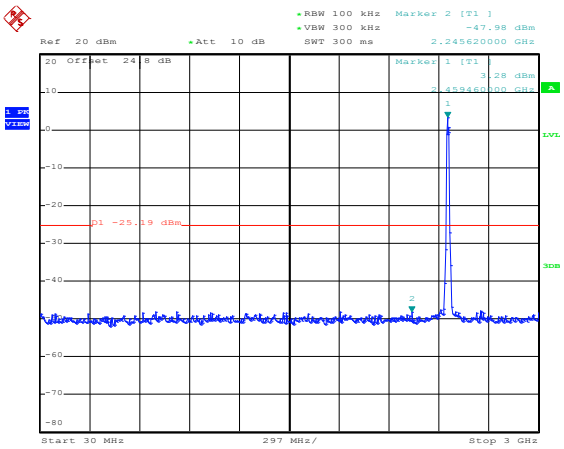
Date: 28.MAY.2019 04:06:08

Channel Plot



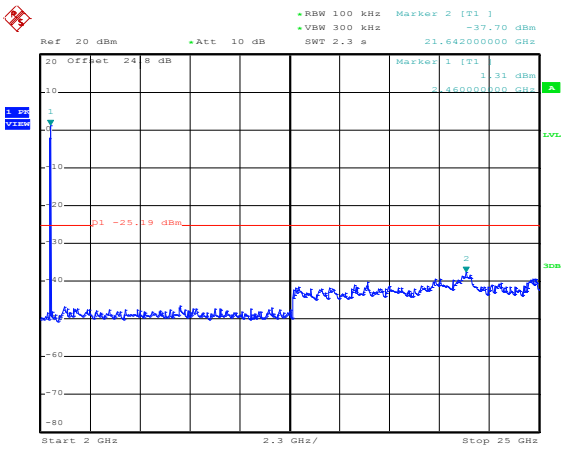
Date: 28.MAY.2019 04:06:32

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 04:06:55

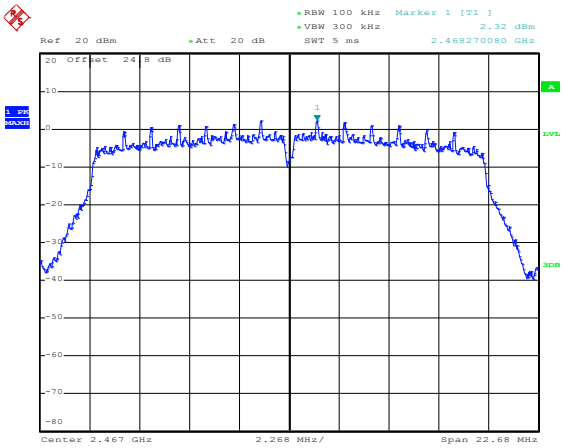
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 04:07:14

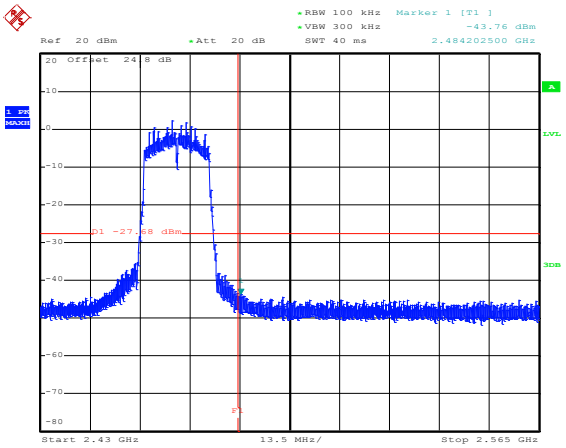
Test Mode :	802.11n HT20	Test Channel :	12

100kHz PSD reference Level



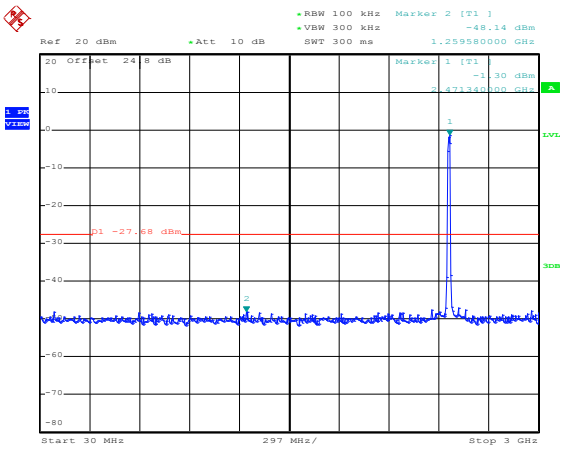
Date: 28.MAY.2019 04:12:00

Channel Plot



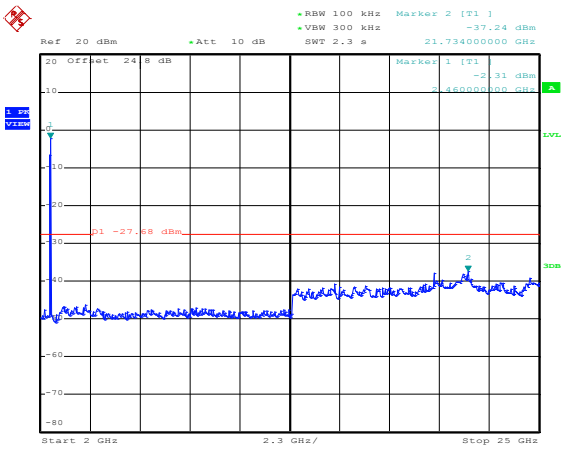
Date: 28.MAY.2019 04:12:25

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 04:13:03

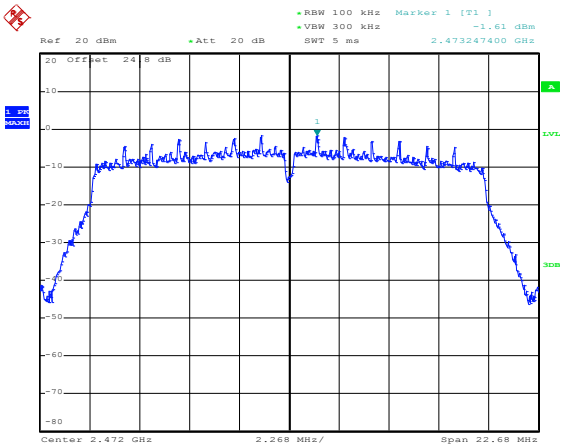
Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 04:13:19

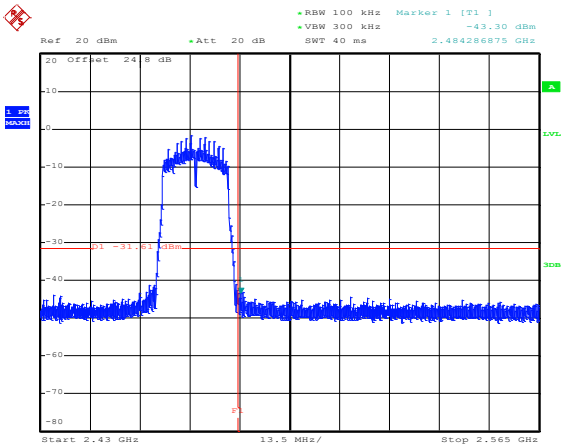
Test Mode :	802.11n HT20	Test Channel :	13

100kHz PSD reference Level



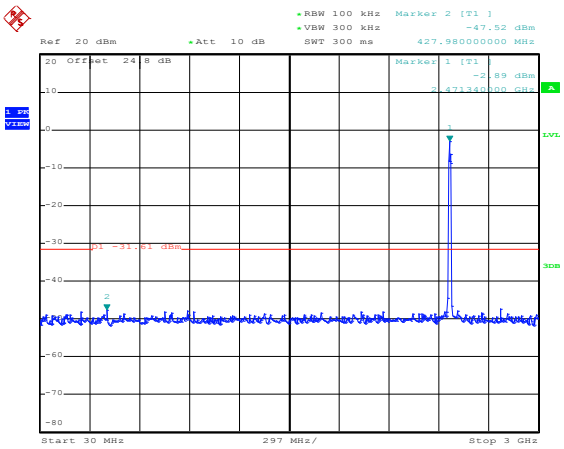
Date: 28.MAY.2019 04:16:10

Channel Plot



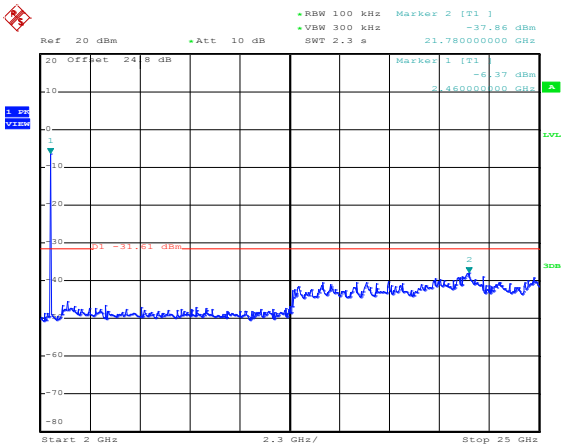
Date: 28.MAY.2019 04:16:32

Spurious Emission 30MHz~3GHz



Date: 28.MAY.2019 04:17:03

Spurious Emission 2GHz~25GHz



Date: 28.MAY.2019 04:17:35

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

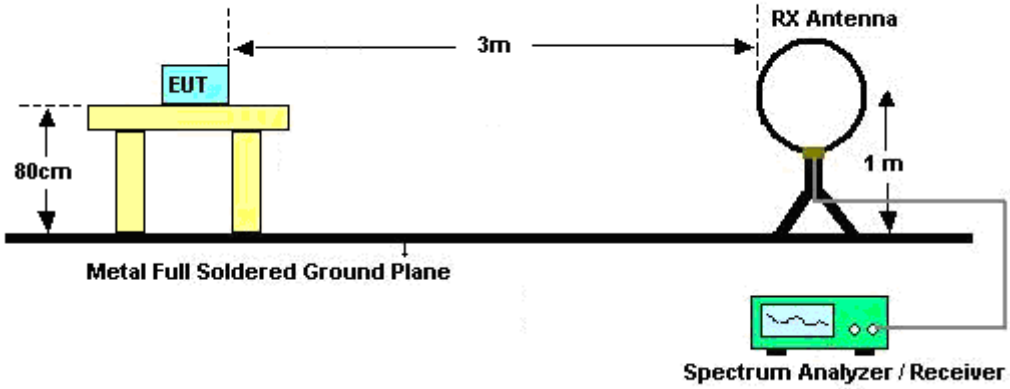
See list of measuring equipment of this test report.

3.5.3 Test Procedures

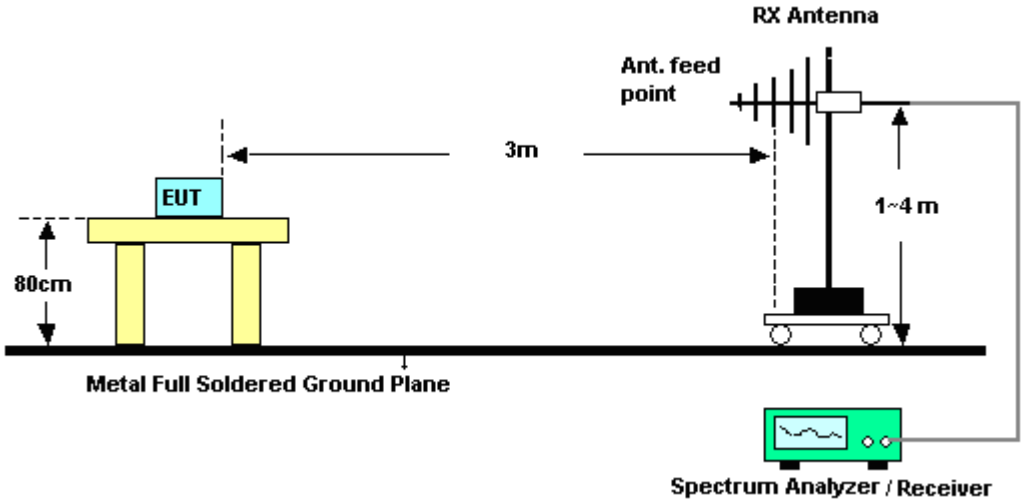
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

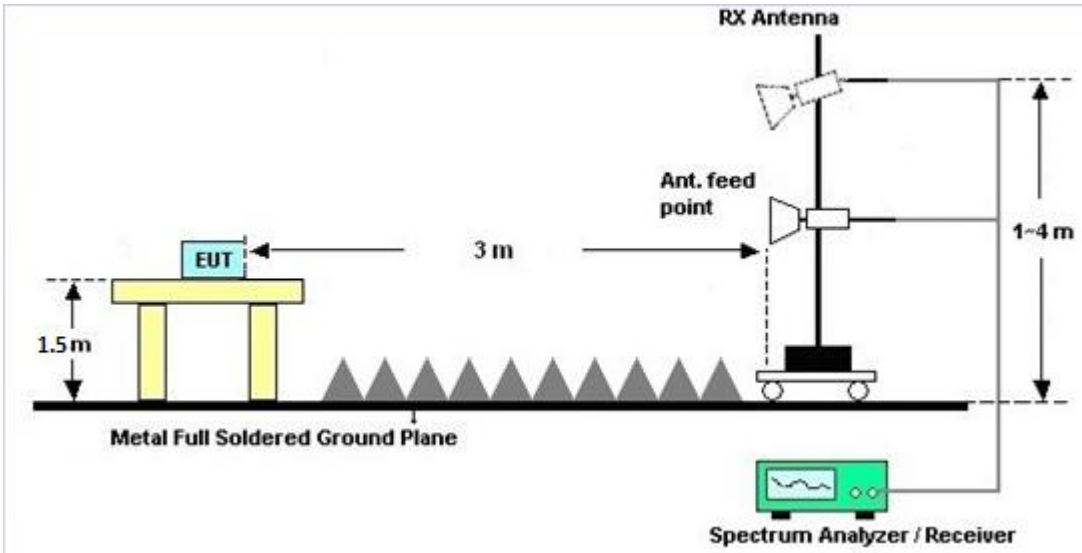
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

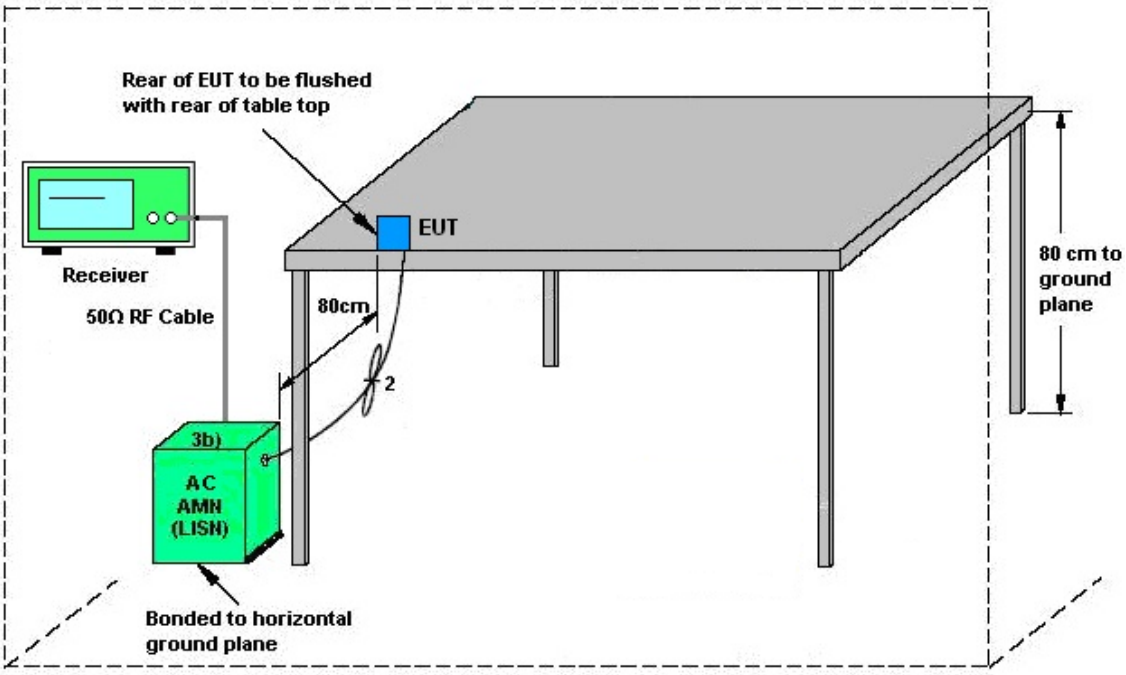
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

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

3.6.4 Test Setup



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

3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D&00800N1D01N-06	35419&03	30MHz to 1GHz	Apr. 30, 2019	May 11, 2019~ May 27, 2019	Apr. 29, 2020	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 02, 2018	May 11, 2019~ May 27, 2019	Dec. 03, 2019	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A (MXE)	MY53290053	20Hz to 26.5GHz	Jan. 23, 2019	May 11, 2019~ May 27, 2019	Jan. 22, 2020	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 11, 2019	May 11, 2019~ May 27, 2019	Jan. 10, 2020	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590075	1GHz ~ 18GHz	Apr. 24, 2019	May 11, 2019~ May 27, 2019	Apr. 23, 2020	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1GHz	May 20, 2019	May 26, 2019	May 19, 2020	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Nov. 02, 2018	May 11, 2019~ May 27, 2019	Nov. 01, 2019	Radiation (03CH07-HY)
Filter	Wainwright	WLKS1200-8SS	SN3	1.2G Low Pass	Nov. 02, 2018	May 11, 2019~ May 27, 2019	Nov. 01, 2019	Radiation (03CH07-HY)
Filter	Microwave	H3G018G1	SN477220	3.0G High Pass	Nov. 02, 2018	May 11, 2019~ May 27, 2019	Nov. 01, 2019	Radiation (03CH07-HY)
Filter	Microwave	WHKX7.0/26.5G-6SS	SN4	7G High Pass	Nov. 02, 2018	May 11, 2019~ May 27, 2019	Nov. 01, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9KHz~30MHz	Feb. 26, 2019	May 11, 2019~ May 27, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 26, 2019	May 11, 2019~ May 27, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 26, 2019	May 11, 2019~ May 27, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 26, 2019	May 11, 2019~ May 27, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	May 11, 2019~ May 27, 2019	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	May 11, 2019~ May 27, 2019	N/A	Radiation (03CH07-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	May 11, 2019~ May 27, 2019	Jul. 15, 2019	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz- 40GHz	Nov. 20, 2018	May 11, 2019~ May 27, 2019	Nov. 19, 2019	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Apr. 18, 2019	May 11, 2019~ May 27, 2019	Apr. 17, 2020	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	80504004656H	N/A	N/A	May 11, 2019~ May 27, 2019	N/A	Radiation (03CH07-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 24, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Jun. 24, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jun. 24, 2019	Nov. 13, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 24, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Jun. 24, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Jun. 24, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 19, 2018	May 07, 2019~ May 28, 2019	Dec. 18, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	May 07, 2019~ May 28, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	EM	EMSW18	SW1070903	N/A	Dec. 19, 2018	May 07, 2019~ May 28, 2019	Dec. 18, 2019	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.2

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.7

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.5

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.2

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Luffy Lin	Temperature:	21~25	°C
Test Date:	2019/05/07 ~ 2019/05/28	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	1	1	2412	12.80	12.95	8.08	8.08	0.50	Pass
11b	1Mbps	1	6	2437	12.95	12.95	8.06	8.08	0.50	Pass
11b	1Mbps	1	11	2462	12.95	12.95	8.08	8.08	0.50	Pass
11b	1Mbps	1	12	2467	13.00	12.95	8.08	8.08	0.50	Pass
11b	1Mbps	1	13	2472	12.80	12.90	8.08	8.08	0.50	Pass
11g	6Mbps	1	1	2412	16.75	16.70	15.12	15.12	0.50	Pass
11g	6Mbps	1	6	2437	16.70	16.75	15.12	15.12	0.50	Pass
11g	6Mbps	1	11	2462	16.75	16.70	15.08	15.12	0.50	Pass
11g	6Mbps	1	12	2467	16.80	16.70	15.12	15.16	0.50	Pass
11g	6Mbps	1	13	2472	16.70	16.70	15.12	15.16	0.50	Pass
HT20	MCS0	1	1	2412	17.70	17.70	15.96	15.12	0.50	Pass
HT20	MCS0	1	6	2437	17.75	17.75	15.08	15.12	0.50	Pass
HT20	MCS0	1	11	2462	17.70	17.70	15.12	15.12	0.50	Pass
HT20	MCS0	1	12	2467	17.65	17.65	15.08	15.12	0.50	Pass
HT20	MCS0	1	13	2472	17.65	17.65	15.16	15.12	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	14.40	14.40		30.00	30.00	2.10	1.10	16.50	15.50	36.00	36.00	Pass
11b	1Mbps	1	6	2437	14.40	14.40		30.00	30.00	2.10	1.10	16.50	15.50	36.00	36.00	Pass
11b	1Mbps	1	11	2462	14.30	14.40		30.00	30.00	2.10	1.10	16.40	15.50	36.00	36.00	Pass
11b	1Mbps	1	12	2467	13.90	14.00		30.00	30.00	2.10	1.10	16.00	15.10	36.00	36.00	Pass
11b	1Mbps	1	13	2472	13.70	14.00		30.00	30.00	2.10	1.10	15.80	15.10	36.00	36.00	Pass
11g	6Mbps	1	1	2412	14.20	14.20		30.00	30.00	2.10	1.10	16.30	15.30	36.00	36.00	Pass
11g	6Mbps	1	6	2437	14.30	14.20		30.00	30.00	2.10	1.10	16.40	15.30	36.00	36.00	Pass
11g	6Mbps	1	11	2462	14.20	14.20	-	30.00	30.00	2.10	1.10	16.30	15.30	36.00	36.00	Pass
11g	6Mbps	1	12	2467	11.20	13.20		30.00	30.00	2.10	1.10	13.30	14.30	36.00	36.00	Pass
11g	6Mbps	1	13	2472	8.80	10.00		30.00	30.00	2.10	1.10	10.90	11.10	36.00	36.00	Pass
HT20	MCS0	1	1	2412	14.00	14.40		30.00	30.00	2.10	1.10	16.10	15.50	36.00	36.00	Pass
HT20	MCS0	1	6	2437	14.40	14.40		30.00	30.00	2.10	1.10	16.50	15.50	36.00	36.00	Pass
HT20	MCS0	1	11	2462	13.00	14.40		30.00	30.00	2.10	1.10	15.10	15.50	36.00	36.00	Pass
HT20	MCS0	1	12	2467	11.60	12.70		30.00	30.00	2.10	1.10	13.70	13.80	36.00	36.00	Pass
HT20	MCS0	1	13	2472	7.60	8.90		30.00	30.00	2.10	1.10	9.70	10.00	36.00	36.00	Pass

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

Report Number : FR8N2215-02C

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	-8.65	-7.29	-	2.10	1.10	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-7.71	-8.52	-	2.10	1.10	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-7.70	-7.70	-	2.10	1.10	8.00	8.00	Pass
11b	1Mbps	1	12	2467	-8.13	-8.17	-	2.10	1.10	8.00	8.00	Pass
11b	1Mbps	1	13	2472	-10.58	-9.88	-	2.10	1.10	8.00	8.00	Pass
11g	6Mbps	1	1	2412	-12.07	-12.53	-	2.10	1.10	8.00	8.00	Pass
11g	6Mbps	1	6	2437	-12.64	-12.61	-	2.10	1.10	8.00	8.00	Pass
11g	6Mbps	1	11	2462	-12.91	-11.87	-	2.10	1.10	8.00	8.00	Pass
11g	6Mbps	1	12	2467	-16.11	-13.60	-	2.10	1.10	8.00	8.00	Pass
11g	6Mbps	1	13	2472	-18.18	-16.86	-	2.10	1.10	8.00	8.00	Pass
HT20	MCS0	1	1	2412	-12.87	-12.47	-	2.10	1.10	8.00	8.00	Pass
HT20	MCS0	1	6	2437	-9.92	-10.70	-	2.10	1.10	8.00	8.00	Pass
HT20	MCS0	1	11	2462	-12.16	-11.81	-	2.10	1.10	8.00	8.00	Pass
HT20	MCS0	1	12	2467	-14.66	-14.05	-	2.10	1.10	8.00	8.00	Pass
HT20	MCS0	1	13	2472	-18.80	-17.97	-	2.10	1.10	8.00	8.00	Pass

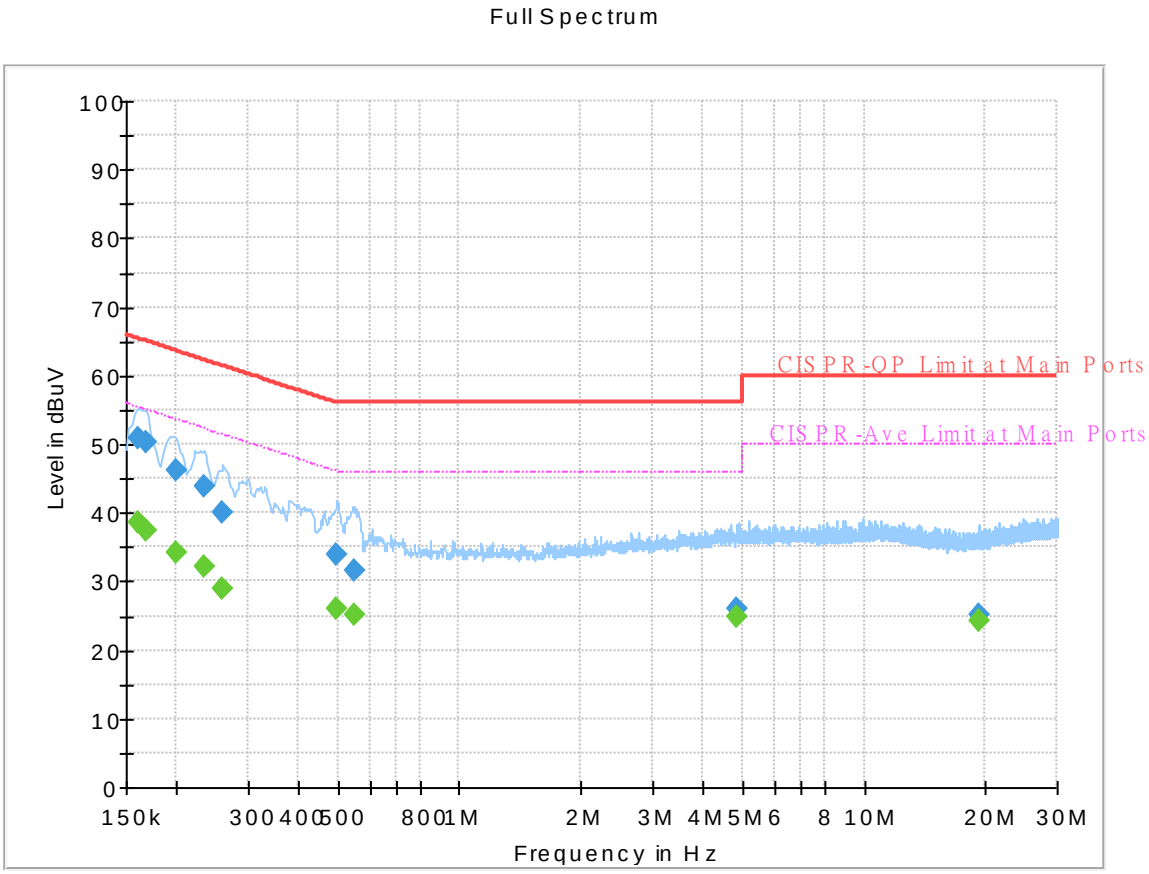
Measured power density (dBm) has offset with cable loss.

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	**Temperature :**	24~26℃
		Relative Humidity :	52~55%

EUT Information

Report NO :	8N2215-02
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

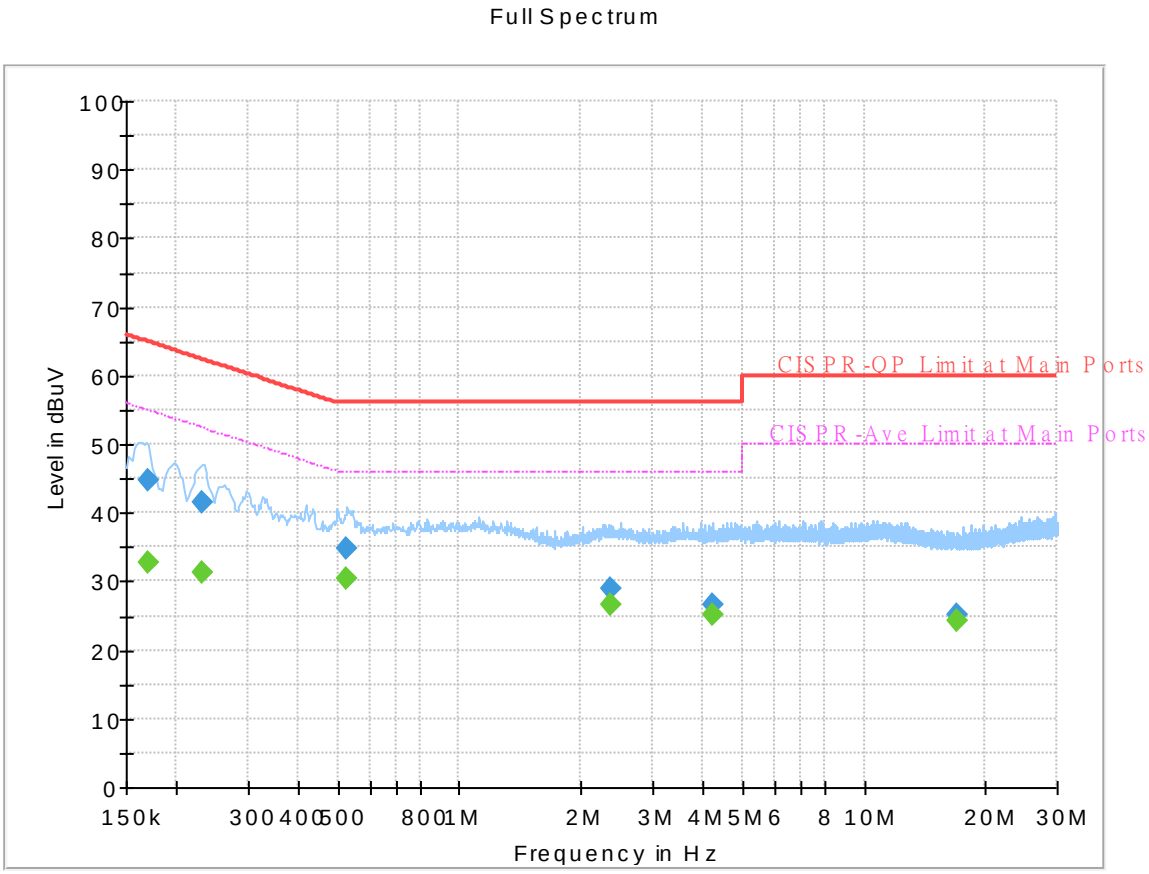


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	38.57	55.40	16.83	L1	OFF	19.4
0.161250	50.94	---	65.40	14.46	L1	OFF	19.4
0.168000	---	37.33	55.06	17.73	L1	OFF	19.4
0.168000	50.25	---	65.06	14.81	L1	OFF	19.4
0.199500	---	34.17	53.63	19.46	L1	OFF	19.4
0.199500	46.18	---	63.63	17.45	L1	OFF	19.4
0.233250	---	32.12	52.33	20.21	L1	OFF	19.4
0.233250	43.73	---	62.33	18.60	L1	OFF	19.4
0.260250	---	28.90	51.42	22.52	L1	OFF	19.4
0.260250	40.20	---	61.42	21.22	L1	OFF	19.4
0.496500	---	25.96	46.06	20.10	L1	OFF	19.4
0.496500	33.90	---	56.06	22.16	L1	OFF	19.4
0.552750	---	25.02	46.00	20.98	L1	OFF	19.4
0.552750	31.67	---	56.00	24.33	L1	OFF	19.4
4.857000	---	24.75	46.00	21.25	L1	OFF	19.6
4.857000	26.02	---	56.00	29.98	L1	OFF	19.6
19.320000	---	24.24	50.00	25.76	L1	OFF	20.1
19.320000	25.26	---	60.00	34.74	L1	OFF	20.1

EUT Information

Report NO :	8N2215-02
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.170250	---	32.82	54.95	22.13	N	OFF	19.5
0.170250	44.65	---	64.95	20.30	N	OFF	19.5
0.231000	---	31.39	52.41	21.02	N	OFF	19.5
0.231000	41.56	---	62.41	20.85	N	OFF	19.5
0.528000	---	30.46	46.00	15.54	N	OFF	19.5
0.528000	34.85	---	56.00	21.15	N	OFF	19.5
2.375250	---	26.47	46.00	19.53	N	OFF	19.5
2.375250	28.95	---	56.00	27.05	N	OFF	19.5
4.247250	---	25.12	46.00	20.88	N	OFF	19.6
4.247250	26.64	---	56.00	29.36	N	OFF	19.6
16.887750	---	24.23	50.00	25.77	N	OFF	20.1
16.887750	25.28	---	60.00	34.72	N	OFF	20.1

Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, Troye Hsieh	Temperature :	20~26°C
		Relative Humidity :	50~56%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		2388.75	54.92	-19.08	74	40.12	32	17.74	34.94	105	238	P	H
		2387.7	44.58	-9.42	54	29.78	32	17.74	34.94	105	238	A	H
	*	2412	109.34	-	-	94.48	32.07	17.74	34.95	105	238	P	H
	*	2412	106.39	-	-	91.53	32.07	17.74	34.95	105	238	A	H
		2348.43	54.65	-19.35	74	40.13	31.8	17.66	34.94	321	291	P	V
		2387.28	44.03	-9.97	54	29.23	32	17.74	34.94	321	291	A	V
	*	2412	105.93	-	-	91.07	32.07	17.74	34.95	321	291	P	V
	*	2412	102.84	-	-	87.98	32.07	17.74	34.95	321	291	A	V
802.11b CH 06 2437MHz		2388.4	56.17	-17.83	74	41.37	32	17.74	34.94	119	236	P	H
		2389.94	45.54	-8.46	54	30.75	32	17.74	34.95	119	236	A	H
	*	2437	113.41	-	-	98.38	32.2	17.79	34.96	119	236	P	H
	*	2437	110.41	-	-	95.38	32.2	17.79	34.96	119	236	A	H
		2492.65	56.2	-17.8	74	41.14	32.2	17.84	34.98	119	236	P	H
		2483.97	45.8	-8.2	54	30.73	32.2	17.84	34.97	119	236	A	H
		2353.82	55.68	-18.32	74	41.09	31.87	17.66	34.94	356	289	P	V
		2389.94	44.9	-9.1	54	30.11	32	17.74	34.95	356	289	A	V
	*	2437	110.94	-	-	95.91	32.2	17.79	34.96	356	289	P	V
	*	2437	107.92	-	-	92.89	32.2	17.79	34.96	356	289	A	V
		2495.59	55.15	-18.85	74	40.09	32.2	17.84	34.98	356	289	P	V
		2484.18	45.02	-8.98	54	29.95	32.2	17.84	34.97	356	289	A	V

802.11b CH 11 2462MHz	*	2462	113.06	-	-	97.99	32.2	17.84	34.97	100	236	P	H
	*	2462	109.96	-	-	94.89	32.2	17.84	34.97	100	236	A	H
		2487.24	56.76	-17.24	74	41.69	32.2	17.84	34.97	100	236	P	H
		2486.6	47.24	-6.76	54	32.17	32.2	17.84	34.97	100	236	A	H
	*	2462	111.59	-	-	96.52	32.2	17.84	34.97	347	289	P	V
	*	2462	108.48	-	-	93.41	32.2	17.84	34.97	347	289	A	V
		2488.76	57.38	-16.62	74	42.31	32.2	17.84	34.97	347	289	P	V
		2486.44	45.85	-8.15	54	30.78	32.2	17.84	34.97	347	289	A	V
802.11b CH 12 2467MHz	*	2467	113.1	-	-	98.03	32.2	17.84	34.97	126	236	P	H
	*	2467	109.95	-	-	94.88	32.2	17.84	34.97	126	236	A	H
		2483.84	60.1	-13.9	74	45.03	32.2	17.84	34.97	126	236	P	H
		2483.84	53.1	-0.9	54	38.03	32.2	17.84	34.97	126	236	A	H
	*	2467	111.78	-	-	96.71	32.2	17.84	34.97	347	288	P	V
	*	2467	108.62	-	-	93.55	32.2	17.84	34.97	347	288	A	V
		2483.92	58.33	-15.67	74	43.26	32.2	17.84	34.97	347	288	P	V
		2483.88	50.68	-3.32	54	35.61	32.2	17.84	34.97	347	288	A	V
802.11b CH 13 2472MHz	*	2472	110.27	-	-	95.2	32.2	17.84	34.97	100	234	P	H
	*	2472	107.04	-	-	91.97	32.2	17.84	34.97	100	234	A	H
		2484.36	59.55	-14.45	74	44.48	32.2	17.84	34.97	100	234	P	H
		2484.64	52.65	-1.35	54	37.58	32.2	17.84	34.97	100	234	A	H
	*	2472	108.35	-	-	93.28	32.2	17.84	34.97	350	288	P	V
	*	2472	105.21	-	-	90.14	32.2	17.84	34.97	350	288	A	V
		2484.12	58.56	-15.44	74	43.49	32.2	17.84	34.97	350	288	P	V
		2484.6	50.12	-3.88	54	35.05	32.2	17.84	34.97	350	288	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	55.72	-18.28	74	69.26	34.1	11.39	59.03	272	87	P	H
		4824	52.56	-1.44	54	66.1	34.1	11.39	59.03	272	87	A	H
		4824	49.87	-24.13	74	63.41	34.1	11.39	59.03	100	0	P	V
802.11b CH 06 2437MHz		4874	55.77	-18.23	74	69.14	34.13	11.42	58.92	266	88	P	H
		4874	53.33	-0.67	54	66.7	34.13	11.42	58.92	266	88	A	H
		7311	43.3	-30.7	74	51.93	35.7	13.97	58.3	100	0	P	H
		4874	49.04	-24.96	74	62.41	34.13	11.42	58.92	100	0	P	V
		7311	44.12	-29.88	74	52.75	35.7	13.97	58.3	100	0	P	V
802.11b CH 11 2462MHz		4924	54.86	-19.14	74	68.05	34.17	11.45	58.81	100	88	P	H
		4924	52.27	-1.73	54	65.46	34.17	11.45	58.81	100	88	A	H
		7386	44.7	-29.3	74	53.48	35.5	14.07	58.35	100	0	P	H
		4924	49.39	-24.61	74	62.58	34.17	11.45	58.81	100	0	P	V
		7386	44.29	-29.71	74	53.07	35.5	14.07	58.35	100	0	P	V
802.11b CH 12 2467MHz		4934	54.97	-19.03	74	68.16	34.17	11.45	58.81	100	86	P	H
		4934	51.59	-2.41	54	64.78	34.17	11.45	58.81	100	86	A	H
		7401	44.06	-29.94	74	52.85	35.5	14.07	58.36	100	0	P	H
		4934	49.67	-24.33	74	62.86	34.17	11.45	58.81	100	0	P	V
		7401	43.99	-30.01	74	52.78	35.5	14.07	58.36	100	0	P	V
802.11b CH 13 2472MHz		4944	49.93	-24.07	74	63.03	34.2	11.48	58.78	100	0	P	H
		7416	44.83	-29.17	74	53.62	35.5	14.07	58.36	100	0	P	H
		4944	46.67	-27.33	74	59.77	34.2	11.48	58.78	100	0	P	V
		7416	44.42	-29.58	74	53.21	35.5	14.07	58.36	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		2389.065	62.44	-11.56	74	47.64	32	17.74	34.94	106	240	P	H
		2390	51.82	-2.18	54	37.03	32	17.74	34.95	106	240	A	H
	*	2412	111.79	-	-	96.93	32.07	17.74	34.95	106	240	P	H
	*	2412	104.1	-	-	89.24	32.07	17.74	34.95	106	240	A	H
		2389.065	59.93	-14.07	74	45.13	32	17.74	34.94	367	269	P	V
		2390	49.79	-4.21	54	35	32	17.74	34.95	367	269	A	V
	*	2412	110.42	-	-	95.56	32.07	17.74	34.95	367	269	P	V
	*	2412	102.94	-	-	88.08	32.07	17.74	34.95	367	269	A	V
802.11g CH 06 2437MHz		2385.6	56.13	-17.87	74	41.33	32	17.74	34.94	117	238	P	H
		2389.8	46.68	-7.32	54	31.89	32	17.74	34.95	117	238	A	H
	*	2437	111.87	-	-	96.84	32.2	17.79	34.96	117	238	P	H
	*	2437	104.11	-	-	89.08	32.2	17.79	34.96	117	238	A	H
		2483.9	57.3	-16.7	74	42.23	32.2	17.84	34.97	117	238	P	H
		2484.32	47.66	-6.34	54	32.59	32.2	17.84	34.97	117	238	A	H
		2373.42	55.78	-18.22	74	41.12	31.93	17.67	34.94	348	279	P	V
		2381.26	46.18	-7.82	54	31.45	31.93	17.74	34.94	348	279	A	V
	*	2437	109.07	-	-	94.04	32.2	17.79	34.96	348	279	P	V
	*	2437	101.4	-	-	86.37	32.2	17.79	34.96	348	279	A	V
		2484.6	57.3	-16.7	74	42.23	32.2	17.84	34.97	348	279	P	V
		2484.39	47.29	-6.71	54	32.22	32.2	17.84	34.97	348	279	A	V

802.11g CH 11 2462MHz	*	2462	110.76	-	-	95.69	32.2	17.84	34.97	106	243	P	H
	*	2462	102.65	-	-	87.58	32.2	17.84	34.97	106	243	A	H
		2483.68	65.32	-8.68	74	50.25	32.2	17.84	34.97	106	243	P	H
		2483.52	53.39	-0.61	54	38.32	32.2	17.84	34.97	106	243	P	H
	*	2462	109.39	-	-	94.32	32.2	17.84	34.97	400	282	P	V
	*	2462	101.76	-	-	86.69	32.2	17.84	34.97	400	282	A	V
		2483.6	60.12	-13.88	74	45.05	32.2	17.84	34.97	400	282	P	V
		2483.6	49.31	-4.69	54	34.24	32.2	17.84	34.97	400	282	A	V
802.11g CH 12 2467MHz	*	2467	107.47	-	-	92.4	32.2	17.84	34.97	131	240	P	H
	*	2467	99.96	-	-	84.89	32.2	17.84	34.97	131	240	A	H
		2484	65.08	-8.92	74	50.01	32.2	17.84	34.97	131	240	P	H
		2483.52	53.08	-0.92	54	38.01	32.2	17.84	34.97	131	240	A	H
	*	2467	105.62	-	-	90.55	32.2	17.84	34.97	353	283	P	V
	*	2467	98.42	-	-	83.35	32.2	17.84	34.97	353	283	A	V
		2483.96	59.64	-14.36	74	44.57	32.2	17.84	34.97	353	283	P	V
		2483.52	49.05	-4.95	54	33.98	32.2	17.84	34.97	353	283	A	V
802.11g CH 13 2472MHz	*	2472	105.24	-	-	90.17	32.2	17.84	34.97	100	244	P	H
	*	2472	97.87	-	-	82.8	32.2	17.84	34.97	100	244	A	H
		2484.8	64.44	-9.56	74	49.37	32.2	17.84	34.97	100	244	P	H
		2484.12	53.1	-0.9	54	38.03	32.2	17.84	34.97	100	244	A	H
	*	2472	104.11	-	-	89.04	32.2	17.84	34.97	351	279	P	V
	*	2472	96.38	-	-	81.31	32.2	17.84	34.97	351	279	A	V
		2483.52	63.99	-10.01	74	48.92	32.2	17.84	34.97	351	279	P	V
		2484.2	51.52	-2.48	54	36.45	32.2	17.84	34.97	351	279	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	47.31	-26.69	74	60.85	34.1	11.39	59.03	100	0	P	H
		4824	44.61	-29.39	74	58.15	34.1	11.39	59.03	100	0	P	V
802.11g CH 06 2437MHz		4874	45.24	-28.76	74	58.61	34.13	11.42	58.92	100	0	P	H
		7311	43.59	-30.41	74	52.22	35.7	13.97	58.3	100	0	P	H
		4874	43.34	-30.66	74	56.71	34.13	11.42	58.92	100	0	P	V
		7311	43.47	-30.53	74	52.1	35.7	13.97	58.3	100	0	P	V
802.11g CH 11 2462MHz		4924	44.59	-29.41	74	57.78	34.17	11.45	58.81	100	0	P	H
		7386	44.39	-29.61	74	53.17	35.5	14.07	58.35	100	0	P	H
		4924	44.19	-29.81	74	57.38	34.17	11.45	58.81	100	0	P	V
		7386	44.56	-29.44	74	53.34	35.5	14.07	58.35	100	0	P	V
802.11g CH 12 2467MHz		4934	43.6	-30.4	74	56.79	34.17	11.45	58.81	100	0	P	H
		7401	44.38	-29.62	74	53.17	35.5	14.07	58.36	100	0	P	H
		4934	43.6	-30.4	74	56.79	34.17	11.45	58.81	100	0	P	V
		7401	44.47	-29.53	74	53.26	35.5	14.07	58.36	100	0	P	V
802.11g CH 13 2472MHz		4944	43.28	-30.72	74	56.38	34.2	11.48	58.78	100	0	P	H
		7416	43.95	-30.05	74	52.74	35.5	14.07	58.36	100	0	P	H
		4944	43.73	-30.27	74	56.83	34.2	11.48	58.78	100	0	P	V
		7416	43.86	-30.14	74	52.65	35.5	14.07	58.36	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		2389.695	66.5	-7.5	74	51.7	32	17.74	34.94	106	240	P	H
		2390	52.9	-1.1	54	38.11	32	17.74	34.95	106	240	A	H
	*	2412	111.91	-	-	97.05	32.07	17.74	34.95	106	240	P	H
	*	2412	104.17	-	-	89.31	32.07	17.74	34.95	106	240	A	H
		2389.8	60.79	-13.21	74	46	32	17.74	34.95	367	269	P	V
		2389.8	48.16	-5.84	54	33.37	32	17.74	34.95	367	269	A	V
	*	2412	108.01	-	-	93.15	32.07	17.74	34.95	367	269	P	V
	*	2412	100.41	-	-	85.55	32.07	17.74	34.95	367	269	A	V
802.11n HT20 CH 06 2437MHz		2388.68	56.87	-17.13	74	42.07	32	17.74	34.94	117	239	P	H
		2389.38	47.06	-6.94	54	32.26	32	17.74	34.94	117	239	A	H
	*	2437	112.38	-	-	97.35	32.2	17.79	34.96	117	239	P	H
	*	2437	104.83	-	-	89.8	32.2	17.79	34.96	117	239	A	H
		2490.48	57.62	-16.38	74	42.55	32.2	17.84	34.97	117	239	P	H
		2484.32	47.72	-6.28	54	32.65	32.2	17.84	34.97	117	239	A	H
		2389.38	56.94	-17.06	74	42.14	32	17.74	34.94	350	280	P	V
		2387.7	46.6	-7.4	54	31.8	32	17.74	34.94	350	280	A	V
	*	2437	109.84	-	-	94.81	32.2	17.79	34.96	350	280	P	V
	*	2437	102.32	-	-	87.29	32.2	17.79	34.96	350	280	A	V
		2483.55	56.62	-17.38	74	41.55	32.2	17.84	34.97	350	280	P	V
		2483.83	47.43	-6.57	54	32.36	32.2	17.84	34.97	350	280	A	V

802.11n HT20 CH 11 2462MHz	*	2462	109.92	-	-	94.85	32.2	17.84	34.97	128	241	P	H
	*	2462	102.31	-	-	87.24	32.2	17.84	34.97	128	241	A	H
		2483.72	64.33	-9.67	74	49.26	32.2	17.84	34.97	128	241	P	H
		2483.52	51.5	-2.5	54	36.43	32.2	17.84	34.97	128	241	A	H
	*	2462	108.48	-	-	93.41	32.2	17.84	34.97	400	282	P	V
	*	2462	101.06	-	-	85.99	32.2	17.84	34.97	400	282	A	V
		2484.32	58.63	-15.37	74	43.56	32.2	17.84	34.97	400	282	P	V
		2483.52	48.43	-5.57	54	33.36	32.2	17.84	34.97	400	282	A	V
802.11n HT20 CH 12 2467MHz	*	2467	108.15	-	-	93.08	32.2	17.84	34.97	130	241	P	H
	*	2467	100.67	-	-	85.6	32.2	17.84	34.97	130	241	A	H
		2484.64	67.19	-6.81	74	52.12	32.2	17.84	34.97	130	241	P	H
		2483.84	52.87	-1.13	54	37.8	32.2	17.84	34.97	130	241	P	H
	*	2467	106.73	-	-	91.66	32.2	17.84	34.97	350	284	P	V
	*	2467	99.26	-	-	84.19	32.2	17.84	34.97	350	284	A	V
		2483.52	64.3	-9.7	74	49.23	32.2	17.84	34.97	350	284	P	V
		2483.68	52.06	-1.94	54	36.99	32.2	17.84	34.97	350	284	A	V
802.11n HT20 CH 13 2472MHz	*	2472	103.99	-	-	88.92	32.2	17.84	34.97	100	243	P	H
	*	2472	96.35	-	-	81.28	32.2	17.84	34.97	100	243	A	H
		2483.64	66.11	-7.89	74	51.04	32.2	17.84	34.97	100	243	P	H
		2483.52	52.55	-1.45	54	37.48	32.2	17.84	34.97	100	243	A	H
	*	2472	102.7	-	-	87.63	32.2	17.84	34.97	352	280	P	V
	*	2472	94.74	-	-	79.67	32.2	17.84	34.97	352	280	A	V
		2483.64	63.75	-10.25	74	48.68	32.2	17.84	34.97	352	280	P	V
		2483.52	50.86	-3.14	54	35.79	32.2	17.84	34.97	352	280	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	49.63	-24.37	74	63.17	34.1	11.39	59.03	100	0	P	H
		4824	48.89	-25.11	74	62.43	34.1	11.39	59.03	100	0	P	V
802.11n HT20 CH 06 2437MHz		4874	46.26	-27.74	74	59.63	34.13	11.42	58.92	100	0	P	H
		7311	43.5	-30.5	74	52.13	35.7	13.97	58.3	100	0	P	H
		4874	43.63	-30.37	74	57	34.13	11.42	58.92	100	0	P	V
		7311	43.82	-30.18	74	52.45	35.7	13.97	58.3	100	0	P	V
802.11n HT20 CH 11 2462MHz		4924	42.56	-31.44	74	55.75	34.17	11.45	58.81	100	0	P	H
		7386	44.5	-29.5	74	53.28	35.5	14.07	58.35	100	0	P	H
		4924	42.39	-31.61	74	55.58	34.17	11.45	58.81	100	0	P	V
		7386	44.05	-29.95	74	52.83	35.5	14.07	58.35	100	0	P	V
802.11n HT20 CH 12 2467MHz		4934	42.78	-31.22	74	55.97	34.17	11.45	58.81	100	0	P	H
		7401	44.03	-29.97	74	52.82	35.5	14.07	58.36	100	0	P	H
		4934	42.57	-31.43	74	55.76	34.17	11.45	58.81	100	0	P	V
		7401	43.8	-30.2	74	52.59	35.5	14.07	58.36	100	0	P	V
802.11n HT20 CH 13 2472MHz		4944	43.11	-30.89	74	56.21	34.2	11.48	58.78	100	0	P	H
		7416	43.22	-30.78	74	52.01	35.5	14.07	58.36	100	0	P	H
		4944	42.63	-31.37	74	55.73	34.2	11.48	58.78	100	0	P	V
		7416	43.54	-30.46	74	52.33	35.5	14.07	58.36	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		30	24.12	-15.88	40	28.18	24.6	1.32	29.98	-	-	P	H
		96.15	26.86	-16.64	43.5	39.78	15.33	1.74	29.99	-	-	P	H
		132.06	30.65	-12.85	43.5	41.17	17.42	2.01	29.95	-	-	P	H
		745.9	34.29	-11.71	46	31.55	27.73	4.46	29.45	100	0	P	H
		962.9	34.15	-19.85	54	26.64	30.89	5.09	28.47	-	-	P	H
		994.4	34.89	-19.11	54	27.45	30.43	5.25	28.24	-	-	P	H
		30	29.19	-10.81	40	33.25	24.6	1.32	29.98	-	-	P	V
		58.35	33.91	-6.09	40	50.51	12.05	1.34	29.99	100	0	P	V
		117.48	29.44	-14.06	43.5	40.07	17.33	2.01	29.97	-	-	P	V
		867.7	32.55	-13.45	46	27.68	28.98	4.93	29.04	-	-	P	V
		931.4	32.58	-13.42	46	26.74	29.53	5.01	28.7	-	-	P	V
		970.6	35.09	-18.91	54	27.56	30.86	5.09	28.42	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		2380.875	56.41	-17.59	74	41.68	31.93	17.74	34.94	100	234	P	H
		2387.28	46.59	-7.41	54	31.79	32	17.74	34.94	100	234	A	H
	*	2412	106.11	-	-	91.25	32.07	17.74	34.95	100	234	P	H
	*	2412	103.03	-	-	88.17	32.07	17.74	34.95	100	234	A	H
		2378.145	55.54	-18.46	74	40.88	31.93	17.67	34.94	400	198	P	V
		2387.385	46.53	-7.47	54	31.73	32	17.74	34.94	400	198	A	V
	*	2412	105.01	-	-	90.15	32.07	17.74	34.95	400	198	P	V
	*	2412	101.9	-	-	87.04	32.07	17.74	34.95	400	198	A	V
802.11b CH 06 2437MHz		2379.44	56.16	-17.84	74	41.5	31.93	17.67	34.94	102	273	P	H
		2388.26	46.2	-7.8	54	31.4	32	17.74	34.94	102	273	A	H
	*	2437	108.76	-	-	93.73	32.2	17.79	34.96	102	273	P	H
	*	2437	105.79	-	-	90.76	32.2	17.79	34.96	102	273	A	H
		2499.72	56.74	-17.26	74	41.68	32.2	17.84	34.98	102	273	P	H
		2485.79	46.24	-7.76	54	31.17	32.2	17.84	34.97	102	273	A	H
		2368.1	55.81	-18.19	74	41.21	31.87	17.67	34.94	391	157	P	V
		2388.68	44.69	-9.31	54	29.89	32	17.74	34.94	391	157	A	V
	*	2437	103.65	-	-	88.62	32.2	17.79	34.96	391	157	P	V
	*	2437	100.53	-	-	85.5	32.2	17.79	34.96	391	157	A	V
		2483.5	54.68	-19.32	74	39.61	32.2	17.84	34.97	391	157	P	V
		2489.01	45.08	-8.92	54	30.01	32.2	17.84	34.97	391	157	A	V

802.11b CH 11 2462MHz	*	2462	109.57	-	-	94.5	32.2	17.84	34.97	161	276	P	H
	*	2462	106.45	-	-	91.38	32.2	17.84	34.97	161	276	A	H
		2486.44	56.65	-17.35	74	41.58	32.2	17.84	34.97	161	276	P	H
		2488.24	46.79	-7.21	54	31.72	32.2	17.84	34.97	161	276	A	H
	*	2462	107.27	-	-	92.2	32.2	17.84	34.97	385	167	P	V
	*	2462	104.12	-	-	89.05	32.2	17.84	34.97	385	167	A	V
		2486.72	55.78	-18.22	74	40.71	32.2	17.84	34.97	385	167	P	V
		2486.8	45.63	-8.37	54	30.56	32.2	17.84	34.97	385	167	A	V
802.11b CH 12 2467MHz	*	2467	109.06	-	-	93.99	32.2	17.84	34.97	213	277	P	H
	*	2467	105.82	-	-	90.75	32.2	17.84	34.97	213	277	A	H
		2484.12	59.71	-14.29	74	44.64	32.2	17.84	34.97	213	277	P	H
		2483.96	53.34	-0.66	54	38.27	32.2	17.84	34.97	213	277	A	H
	*	2467	106.35	-	-	91.28	32.2	17.84	34.97	380	170	P	V
	*	2467	103.25	-	-	88.18	32.2	17.84	34.97	380	170	A	V
		2483.96	58.44	-15.56	74	43.37	32.2	17.84	34.97	380	170	P	V
		2483.92	50.97	-3.03	54	35.9	32.2	17.84	34.97	380	170	A	V
802.11b CH 13 2472MHz	*	2472	107.2	-	-	92.13	32.2	17.84	34.97	100	277	P	H
	*	2472	104	-	-	88.93	32.2	17.84	34.97	100	277	A	H
		2484.52	59.06	-14.94	74	43.99	32.2	17.84	34.97	100	277	P	H
		2486.96	52.5	-1.5	54	37.43	32.2	17.84	34.97	100	277	A	H
	*	2472	104.26	-	-	89.19	32.2	17.84	34.97	381	172	P	V
	*	2472	101.32	-	-	86.25	32.2	17.84	34.97	381	172	A	V
		2484.6	57.41	-16.59	74	42.34	32.2	17.84	34.97	381	172	P	V
		2484.6	51.61	-2.39	54	36.54	32.2	17.84	34.97	381	172	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	55.02	-18.98	74	68.56	34.1	11.39	59.03	250	312	P	H
		4824	52.09	-1.91	54	65.63	34.1	11.39	59.03	250	312	A	H
		4824	53.64	-20.36	74	67.18	34.1	11.39	59.03	366	191	P	V
		4824	50.7	-3.3	54	64.24	34.1	11.39	59.03	366	191	A	V
802.11b CH 06 2437MHz		4874	58.11	-15.89	74	71.48	34.13	11.42	58.92	246	308	P	H
		4874	53.21	-0.79	54	66.58	34.13	11.42	58.92	246	308	A	H
		7311	46.77	-27.23	74	55.4	35.7	13.97	58.3	100	0	P	H
		4874	54.04	-19.96	74	67.41	34.13	11.42	58.92	370	187	P	V
		4874	48.51	-5.49	54	61.88	34.13	11.42	58.92	370	187	A	V
		7311	45.01	-28.99	74	53.64	35.7	13.97	58.3	100	0	P	V
802.11b CH 11 2462MHz		4924	55.93	-18.07	74	69.12	34.17	11.45	58.81	253	309	P	H
		4924	53.39	-0.61	54	66.58	34.17	11.45	58.81	253	309	A	H
		7386	47.08	-26.92	74	55.86	35.5	14.07	58.35	100	0	P	H
		4924	55.22	-18.78	74	68.41	34.17	11.45	58.81	372	172	P	V
		4924	52.44	-1.56	54	65.63	34.17	11.45	58.81	372	172	A	V
		7386	45.17	-28.83	74	53.95	35.5	14.07	58.35	100	0	P	V
802.11b CH 12 2467MHz		4934	57.49	-16.51	74	70.68	34.17	11.45	58.81	253	310	P	H
		4934	53.09	-0.91	54	66.28	34.17	11.45	58.81	260	195	A	H
		7401	46.6	-27.4	74	55.39	35.5	14.07	58.36	100	0	P	H
		4934	54.54	-19.46	74	67.73	34.17	11.45	58.81	394	181	P	V
		4934	52.15	-1.85	54	65.34	34.17	11.45	58.81	394	181	A	V
		7401	45.08	-28.92	74	53.87	35.5	14.07	58.36	100	0	P	V
802.11b CH 13 2472MHz		4944	54.48	-19.52	74	67.58	34.2	11.48	58.78	672	311	P	H
		4944	49.91	-4.09	54	63.01	34.2	11.48	58.78	672	311	A	H
		7416	43.94	-30.06	74	52.73	35.5	14.07	58.36	100	0	P	H
		4944	49.24	-24.76	74	62.34	34.2	11.48	58.78	100	0	P	V
		7416	44.51	-29.49	74	53.3	35.5	14.07	58.36	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.485	63.63	-10.37	74	48.83	32	17.74	34.94	100	228	P	H
		2389.8	51.2	-2.8	54	36.41	32	17.74	34.95	100	228	A	H
	*	2412	108.04	-	-	93.18	32.07	17.74	34.95	100	228	P	H
	*	2412	100.32	-	-	85.46	32.07	17.74	34.95	100	228	A	H
		2389.485	62.52	-11.48	74	47.72	32	17.74	34.94	399	196	P	V
		2389.905	50.57	-3.43	54	35.78	32	17.74	34.95	399	196	A	V
	*	2412	105.79	-	-	90.93	32.07	17.74	34.95	399	196	P	V
	*	2412	98.14	-	-	83.28	32.07	17.74	34.95	399	196	A	V
802.11g CH 06 2437MHz		2386.44	56.49	-17.51	74	41.69	32	17.74	34.94	102	264	P	H
		2384.06	47.24	-6.76	54	32.51	31.93	17.74	34.94	102	264	A	H
	*	2437	109.31	-	-	94.28	32.2	17.79	34.96	102	264	P	H
	*	2437	101.54	-	-	86.51	32.2	17.79	34.96	102	264	A	H
		2484.11	57.23	-16.77	74	42.16	32.2	17.84	34.97	102	264	P	H
		2484.95	47.84	-6.16	54	32.77	32.2	17.84	34.97	102	264	A	H
		2353.96	54.99	-19.01	74	40.4	31.87	17.66	34.94	393	161	P	V
		2389.66	45.65	-8.35	54	30.85	32	17.74	34.94	393	161	A	V
	*	2437	104.6	-	-	89.57	32.2	17.79	34.96	393	161	P	V
	*	2437	96.93	-	-	81.9	32.2	17.79	34.96	393	161	A	V
		2485.44	55.84	-18.16	74	40.77	32.2	17.84	34.97	393	161	P	V
		2484.11	46.07	-7.93	54	31	32.2	17.84	34.97	393	161	A	V

802.11g CH 11 2462MHz	*	2462	109.67	-	-	94.6	32.2	17.84	34.97	100	282	P	H
	*	2462	101.99	-	-	86.92	32.2	17.84	34.97	100	282	A	H
		2483.72	59.7	-14.3	74	44.63	32.2	17.84	34.97	100	282	P	H
		2483.72	48.99	-5.01	54	33.92	32.2	17.84	34.97	100	282	A	H
	*	2462	105.3	-	-	90.23	32.2	17.84	34.97	390	148	P	V
	*	2462	97.68	-	-	82.61	32.2	17.84	34.97	390	148	A	V
		2483.72	57.02	-16.98	74	41.95	32.2	17.84	34.97	390	148	P	V
		2483.52	46.89	-7.11	54	31.82	32.2	17.84	34.97	390	148	A	V
802.11g CH 12 2467MHz	*	2467	106.44	-	-	91.37	32.2	17.84	34.97	139	228	P	H
	*	2467	98.05	-	-	82.98	32.2	17.84	34.97	139	228	A	H
		2483.56	61.94	-12.06	74	46.87	32.2	17.84	34.97	139	228	P	H
		2483.52	52.66	-1.34	54	37.59	32.2	17.84	34.97	139	228	P	H
	*	2467	104.08	-	-	89.01	32.2	17.84	34.97	390	163	P	V
	*	2467	96.33	-	-	81.26	32.2	17.84	34.97	390	163	A	V
		2484.04	58.62	-15.38	74	43.55	32.2	17.84	34.97	390	163	P	V
		2483.84	49.17	-4.83	54	34.1	32.2	17.84	34.97	390	163	A	V
802.11g CH 13 2472MHz	*	2472	103.86	-	-	88.79	32.2	17.84	34.97	109	277	P	H
	*	2472	96.31	-	-	81.24	32.2	17.84	34.97	109	277	A	H
		2484.88	63.35	-10.65	74	48.28	32.2	17.84	34.97	109	277	P	H
		2484.16	53.05	-0.95	54	37.98	32.2	17.84	34.97	109	277	A	H
	*	2472	101.01	-	-	85.94	32.2	17.84	34.97	390	164	P	V
	*	2472	93.6	-	-	78.53	32.2	17.84	34.97	390	164	A	V
		2484.28	59.32	-14.68	74	44.25	32.2	17.84	34.97	390	164	P	V
		2483.96	49.42	-4.58	54	34.35	32.2	17.84	34.97	390	164	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	46.33	-27.67	74	59.87	34.1	11.39	59.03	100	0	P	H
		4824	43.62	-30.38	74	57.16	34.1	11.39	59.03	100	0	P	V
802.11g CH 06 2437MHz		4874	48.08	-25.92	74	61.45	34.13	11.42	58.92	100	0	P	H
		7311	43.44	-30.56	74	52.07	35.7	13.97	58.3	100	0	P	H
		4874	45.4	-28.6	74	58.77	34.13	11.42	58.92	100	0	P	V
		7311	43.1	-30.9	74	51.73	35.7	13.97	58.3	100	0	P	V
802.11g CH 11 2462MHz		4924	49.94	-24.06	74	63.13	34.17	11.45	58.81	100	0	P	H
		7386	48.87	-25.13	74	57.65	35.5	14.07	58.35	100	0	P	H
		4924	45.82	-28.18	74	59.01	34.17	11.45	58.81	100	0	P	V
		7386	44.79	-29.21	74	53.57	35.5	14.07	58.35	100	0	P	V
802.11g CH 12 2467MHz		4934	47.76	-26.24	74	60.95	34.17	11.45	58.81	100	0	P	H
		7401	44.03	-29.97	74	52.82	35.5	14.07	58.36	100	0	P	H
		4934	45.26	-28.74	74	58.45	34.17	11.45	58.81	100	0	P	V
		7401	44.1	-29.9	74	52.89	35.5	14.07	58.36	100	0	P	V
802.11g CH 13 2472MHz		4944	43.59	-30.41	74	56.69	34.2	11.48	58.78	100	0	P	H
		7416	43.95	-30.05	74	52.74	35.5	14.07	58.36	100	0	P	H
		4944	42.88	-31.12	74	55.98	34.2	11.48	58.78	100	0	P	V
		7416	44.07	-29.93	74	52.86	35.5	14.07	58.36	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2390	66.21	-7.79	74	51.42	32	17.74	34.95	100	231	P	H
		2390	52.37	-1.63	54	37.58	32	17.74	34.95	100	231	P	H
	*	2412	107.06	-	-	92.2	32.07	17.74	34.95	100	231	P	H
	*	2412	97.55	-	-	82.69	32.07	17.74	34.95	100	231	A	H
		2389.8	64.61	-9.39	74	49.82	32	17.74	34.95	400	195	P	V
		2390	51.32	-2.68	54	36.53	32	17.74	34.95	400	195	A	V
	*	2412	104.58	-	-	89.72	32.07	17.74	34.95	400	195	P	V
	*	2412	96.91	-	-	82.05	32.07	17.74	34.95	400	195	A	V
802.11n HT20 CH 06 2437MHz		2389.1	57.09	-16.91	74	42.29	32	17.74	34.94	102	270	P	H
		2384.06	47.26	-6.74	54	32.53	31.93	17.74	34.94	102	270	A	H
	*	2437	110.49	-	-	95.46	32.2	17.79	34.96	102	270	P	H
	*	2437	101.58	-	-	86.55	32.2	17.79	34.96	102	270	A	H
		2488.87	58.03	-15.97	74	42.96	32.2	17.84	34.97	102	270	P	H
		2487.75	47.86	-6.14	54	32.79	32.2	17.84	34.97	102	270	A	H
		2339.12	55.11	-18.89	74	40.66	31.8	17.59	34.94	392	162	P	V
		2388.26	45.63	-8.37	54	30.83	32	17.74	34.94	392	162	A	V
	*	2437	105.73	-	-	90.7	32.2	17.79	34.96	392	162	P	V
	*	2437	97.05	-	-	82.02	32.2	17.79	34.96	392	162	A	V
		2485.23	56.71	-17.29	74	41.64	32.2	17.84	34.97	392	162	P	V
		2485.51	45.98	-8.02	54	30.91	32.2	17.84	34.97	392	162	A	V

802.11n HT20 CH 11 2462MHz	*	2462	110.33	-	-	95.26	32.2	17.84	34.97	100	282	P	H
	*	2464	101.54	-	-	86.47	32.2	17.84	34.97	100	282	A	H
		2483.52	67.37	-6.63	74	52.3	32.2	17.84	34.97	100	282	P	H
		2484.12	52.82	-1.18	54	37.75	32.2	17.84	34.97	100	282	P	H
	*	2462	105.64	-	-	90.57	32.2	17.84	34.97	393	151	P	V
	*	2462	97	-	-	81.93	32.2	17.84	34.97	393	151	A	V
		2484.48	61.3	-12.7	74	46.23	32.2	17.84	34.97	393	151	P	V
		2483.64	48.75	-5.25	54	33.68	32.2	17.84	34.97	393	151	A	V
802.11n HT20 CH 12 2467MHz	*	2467	107.52	-	-	92.45	32.2	17.84	34.97	190	271	P	H
	*	2467	99.95	-	-	84.88	32.2	17.84	34.97	190	271	A	H
		2483.88	63.57	-10.43	74	48.5	32.2	17.84	34.97	190	271	P	H
		2483.84	52.89	-1.11	54	37.82	32.2	17.84	34.97	190	271	A	H
	*	2467	105.08	-	-	90.01	32.2	17.84	34.97	389	169	P	V
	*	2467	97.4	-	-	82.33	32.2	17.84	34.97	389	169	A	V
		2483.64	59.65	-14.35	74	44.58	32.2	17.84	34.97	389	169	P	V
		2483.52	49.3	-4.7	54	34.23	32.2	17.84	34.97	389	169	A	V
802.11n HT20 CH 13 2472MHz	*	2472	104	-	-	88.93	32.2	17.84	34.97	186	271	P	H
	*	2472	95.27	-	-	80.2	32.2	17.84	34.97	186	271	A	H
		2486.28	62.4	-11.6	74	47.33	32.2	17.84	34.97	186	271	P	H
		2483.52	53.05	-0.95	54	37.98	32.2	17.84	34.97	186	271	A	H
	*	2472	100.7	-	-	85.63	32.2	17.84	34.97	388	168	P	V
	*	2472	91.85	-	-	76.78	32.2	17.84	34.97	388	168	A	V
		2483.72	57.74	-16.26	74	42.67	32.2	17.84	34.97	388	168	P	V
		2483.52	48.77	-5.23	54	33.7	32.2	17.84	34.97	388	168	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	46.93	-27.07	74	60.47	34.1	11.39	59.03	100	0	P	H
		4824	44.68	-29.32	74	58.22	34.1	11.39	59.03	100	0	P	V
802.11n HT20 CH 06 2437MHz		4874	53.96	-20.04	74	67.33	34.13	11.42	58.92	100	277	P	H
		4874	42.38	-11.62	54	55.75	34.13	11.42	58.92	100	277	A	H
		7311	45.78	-28.22	74	54.41	35.7	13.97	58.3	100	0	P	H
		4874	47.97	-26.03	74	61.34	34.13	11.42	58.92	100	0	P	V
		7311	43.16	-30.84	74	51.79	35.7	13.97	58.3	100	0	P	V
802.11n HT20 CH 11 2462MHz		4924	54.85	-19.15	74	68.04	34.17	11.45	58.81	104	273	P	H
		4924	43.46	-10.54	54	56.65	34.17	11.45	58.81	104	273	A	H
		7386	48.19	-25.81	74	56.97	35.5	14.07	58.35	100	0	P	H
		4924	46.36	-27.64	74	59.55	34.17	11.45	58.81	100	0	P	V
		7386	44.29	-29.71	74	53.07	35.5	14.07	58.35	100	0	P	V
802.11n HT20 CH 12 2467MHz		4934	48.12	-25.88	74	61.31	34.17	11.45	58.81	100	0	P	H
		7401	44.16	-29.84	74	52.95	35.5	14.07	58.36	100	0	P	H
		4934	45.52	-28.48	74	58.71	34.17	11.45	58.81	100	0	P	V
		7401	44.66	-29.34	74	53.45	35.5	14.07	58.36	100	0	P	V
802.11n HT20 CH 13 2472MHz		4944	44.54	-29.46	74	57.64	34.2	11.48	58.78	100	0	P	H
		7416	43.6	-30.4	74	52.39	35.5	14.07	58.36	100	0	P	H
		4944	43.44	-30.56	74	56.54	34.2	11.48	58.78	100	0	P	V
		7416	43.97	-30.03	74	52.76	35.5	14.07	58.36	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 802.11b (LF)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
2.4GHz 802.11b LF		90.48	27.07	-16.43	43.5	40.68	14.66	1.72	29.99	-	-	P	H
		144.75	29.52	-13.98	43.5	39.94	17.26	2.25	29.93	-	-	P	H
		275.43	30.2	-15.8	46	38.2	18.93	2.85	29.78	-	-	P	H
		745.2	35.73	-10.27	46	33	27.72	4.46	29.45	100	0	P	H
		948.9	33.29	-12.71	46	26.51	30.28	5.08	28.58	-	-	P	H
		959.4	35.29	-10.71	46	27.86	30.85	5.08	28.5	-	-	P	H
		30	33.67	-6.33	40	37.73	24.6	1.32	29.98	100	0	P	V
		44.85	32.88	-7.12	40	44.83	16.71	1.33	29.99	-	-	P	V
		60.51	33.66	-6.34	40	50.06	11.89	1.7	29.99	-	-	P	V
		745.9	31.3	-14.7	46	28.56	27.73	4.46	29.45	-	-	P	V
		869.8	32.49	-13.51	46	27.63	28.97	4.93	29.04	-	-	P	V
		977.6	34.25	-19.75	54	26.7	30.83	5.09	28.37	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

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

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission Plots

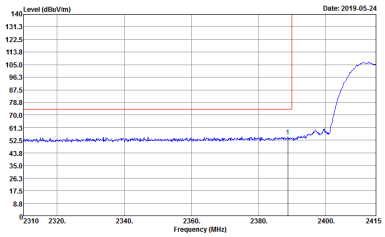
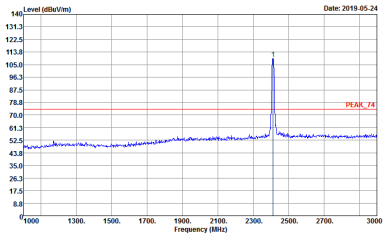
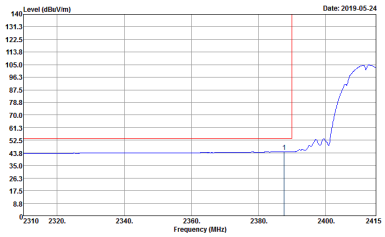
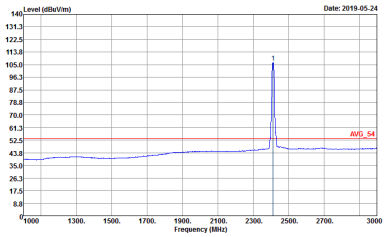
Test Engineer :	Jesse Wang, Stan Hsieh, Troye Hsieh	**Temperature :**	20~26°C
		Relative Humidity :	50~56%

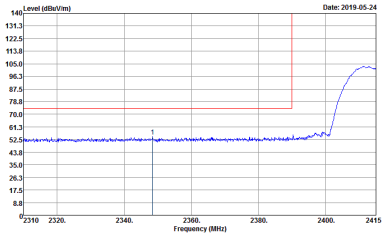
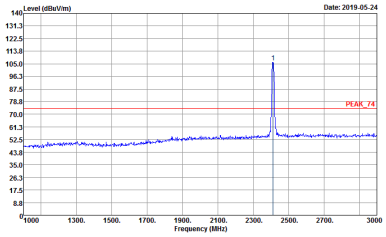
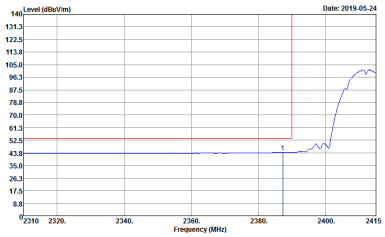
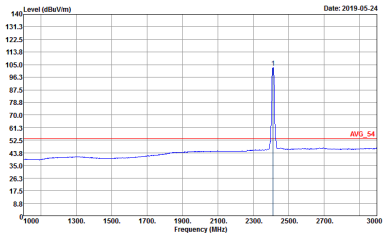
Note symbol

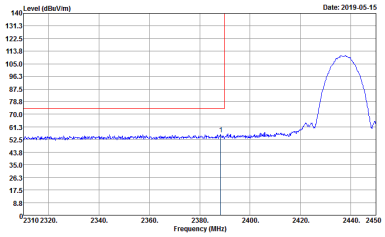
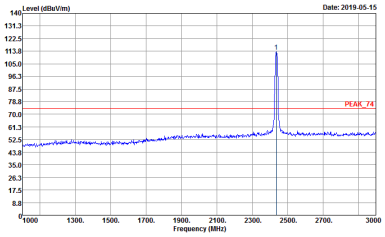
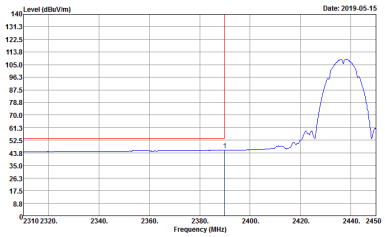
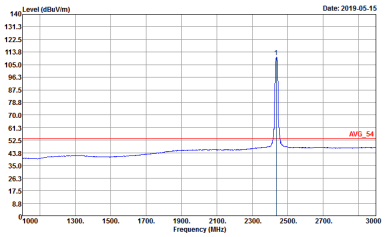
-L	**Low channel location**
-R	**High channel location**

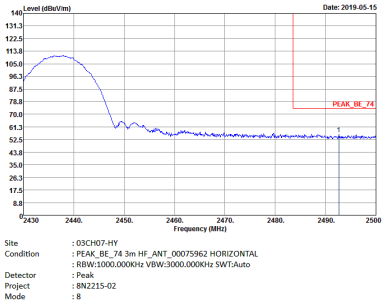
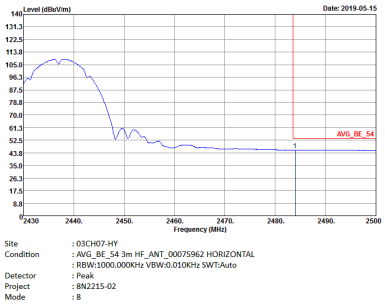
2.4GHz 2400~2483.5MHz

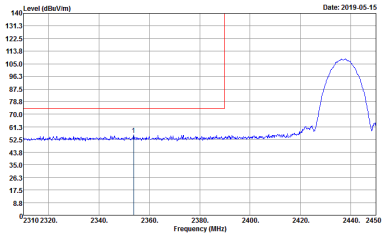
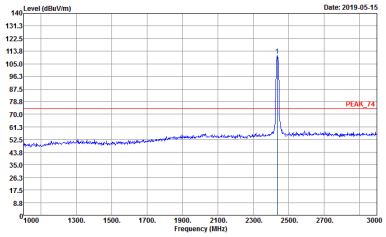
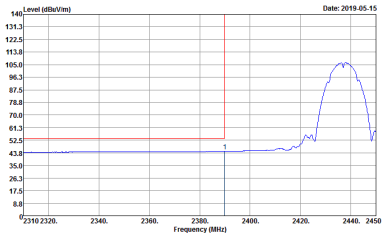
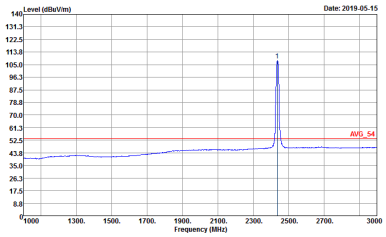
WIFI 802.11b (Band Edge @ 3m)

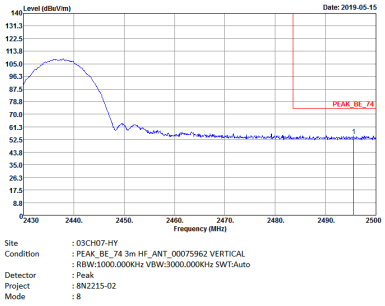
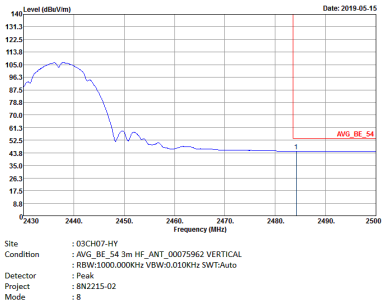
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 7	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 7
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 7	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 7

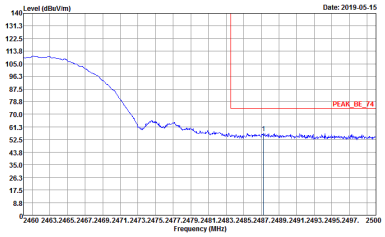
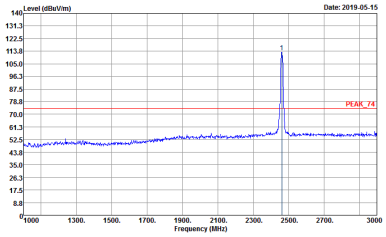
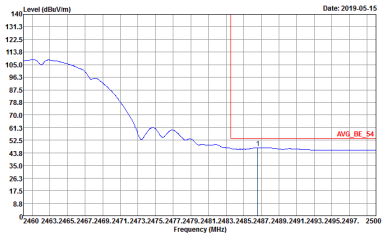
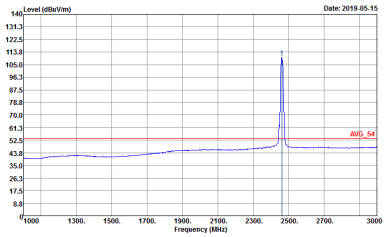
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 7	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 7
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 7	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 7

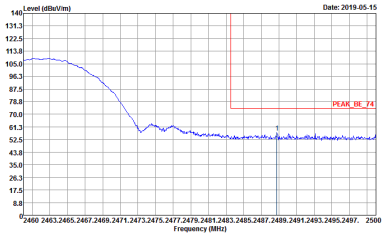
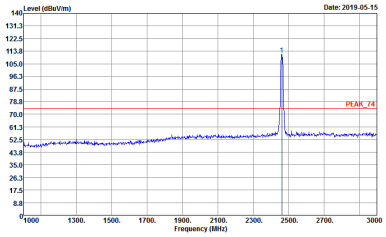
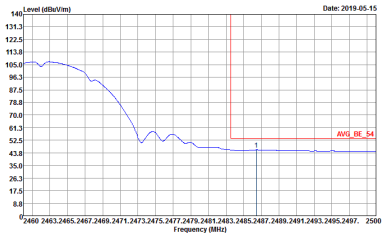
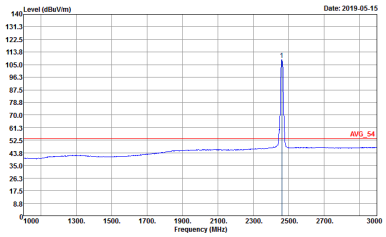
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 8	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 8
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 8	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 8

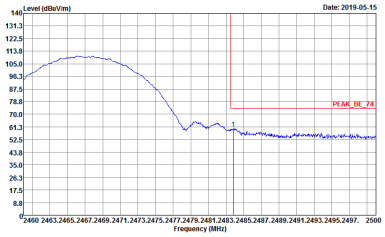
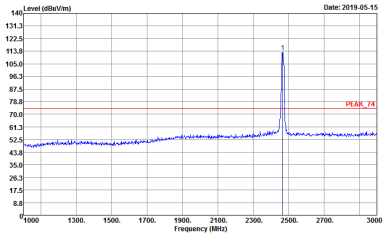
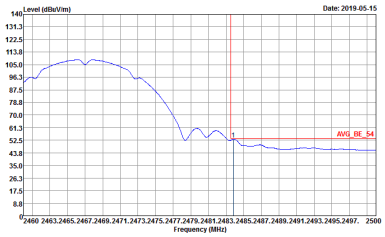
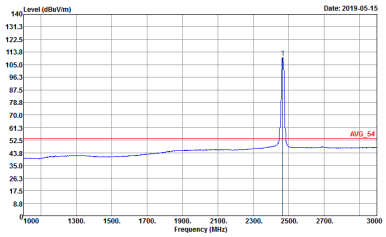
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

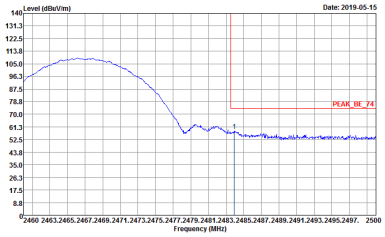
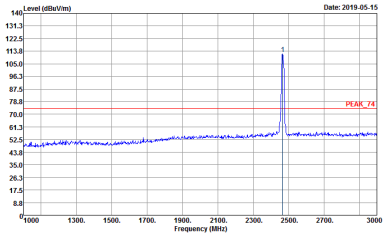
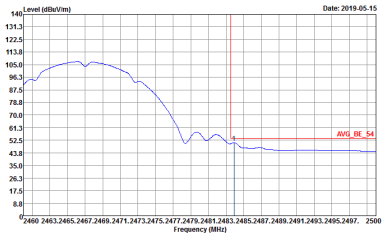
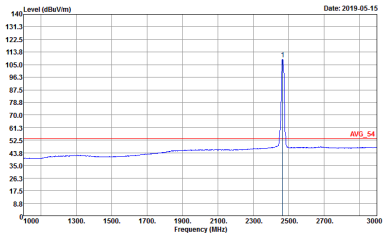
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 8	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 8
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 8	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 8

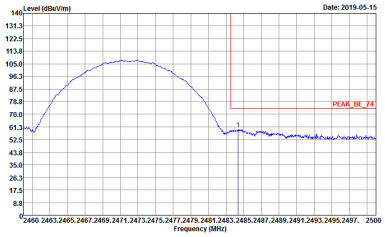
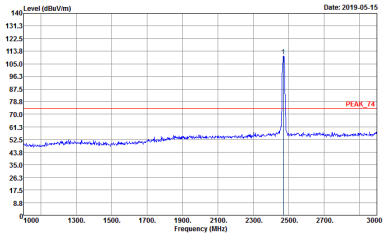
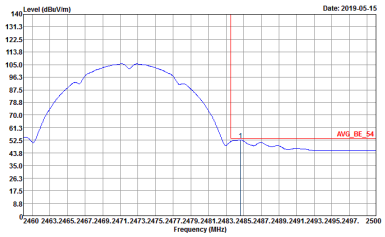
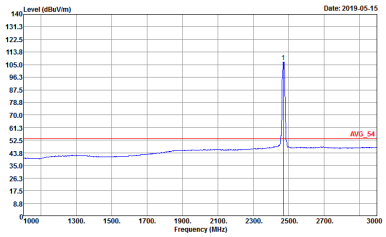
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

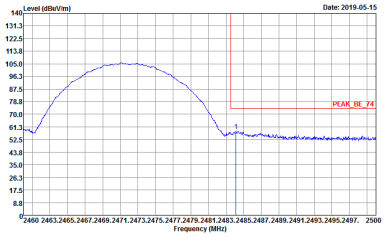
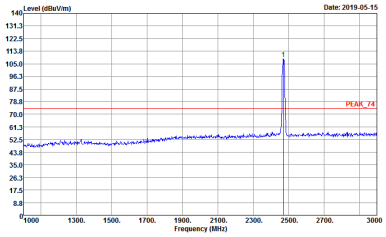
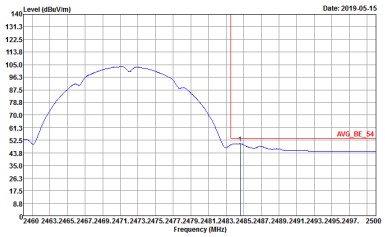
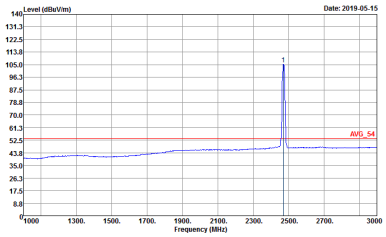
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 9	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 9
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 9	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 9

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 9	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 9
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 9	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 9

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 10	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 10
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 10	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 10

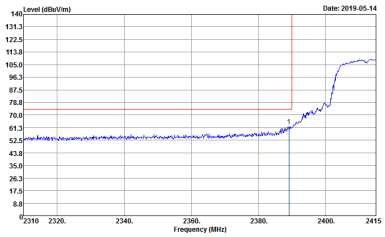
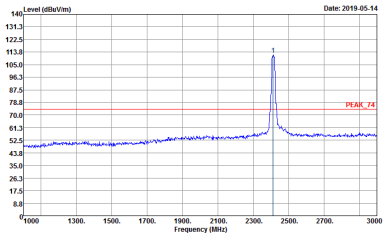
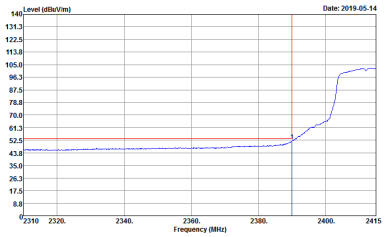
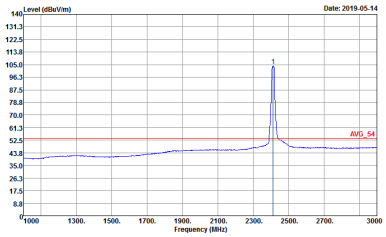
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 10	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 10
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 10	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 10

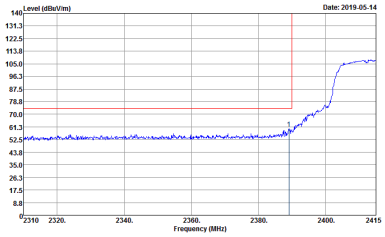
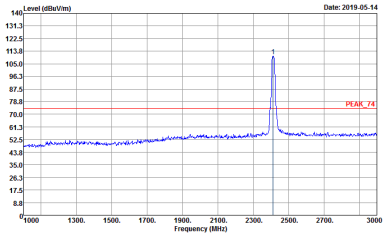
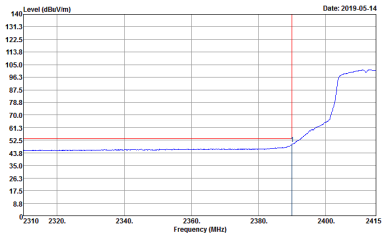
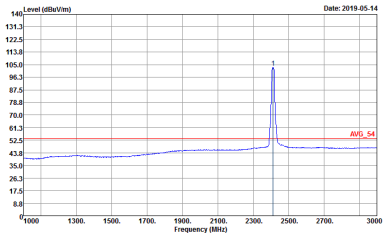
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 11	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 11
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 11	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 11

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 11	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 11
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 11	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 11

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 : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 12	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 12
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 12	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 12

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 12	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 12
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 12	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8N2215-02 Mode : 12