

TEST REPORT

Reference No. : WTS13S1209633E
FCC ID..... : AZQKC109-05
Applicant : Shenzhen KOHO Technology Co., Ltd.
Address : Building3, Jin Yuda Industrial Park, ShangLiao, Shajin, Baoan,
Shenzhen
Manufacturer : Shenzhen Kanghai Electronics CO.,LTD.
Address : F2, Building 3, Jin Yuda Industrial Park, Shangliao, Shajing Town,
Bao'an District, Shenzhen, China
Product Name : MID
Model No..... : KC109-05, TONE
Standards : FCC CFR47 Part 15 C Section 15.247:2012
Date of Receipt sample.... : Dec.05,2013
Date of Test : Dec.06-11,2013
Date of Issue : Dec.23, 2013
Test Result : **Pass ***

***Remarks:**

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Services (Shenzhen) Co., Ltd.

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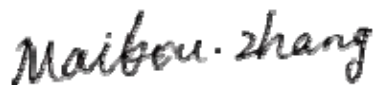
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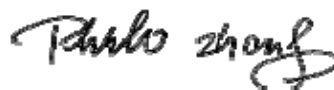
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Compiled by:

Approved by:



Maikou Zhang / Project Engineer



Philo Zhong / Manager

2 Test Summary

Test Items	Test Requirement	Result
Radiated Emissions	15.247 15.205(a) 15.209(a)	PASS
Conducted Emissions	15.207(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3),(4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Emissions from out of band	15.247(d)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

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4 General Information

4.1 General Description of E.U.T.

Product Name	: MID
Model No.	: KC109-05, TONE
Model Difference	: Only the model name is different. The model TONE is test sample.
Operation Frequency	: 2412MHz ~ 2462MHz
Oscillator	: 32.768kHz
Antenna Gain	: 2dBi
Type of modulation	: IEEE 802.11b (CCK/QPSK/BPSK, 11Mbps max.) IEEE 802.11g (BPSK/QPSK/16QAM/64QAM, 54Mbps max.) IEEE 802.11n (BPSK/QPSK/16QAM/64QAM, HT20: 72Mbps max., HT40: 150Mbps max.)
Note	: All the modulation modes were tested, all the test data deeply conform to the rules and the data of the worst mode are recorded in the following pages.

4.2 Details of E.U.T.

Technical Data	: DC 5V, 2A by Adapter(Input: AC100-240V, 50/60Hz, 0.4A) DC 3.7V by Battery(Capacity: 5800mAh)
Adapter	: Manufacturer: GENESIS SCIENCE TECHNOLOGY LTD M/N: GT-WACU05000200-302

4.3 Description of Support Units

The EUT has been tested as an independent unit. KC109-05 is the tested sample.

4.4 Test Mode

Table 1 Tests Carried Out Under FCC part 15.247

Test Items	Test Mode	Data Rate	Channel	TX/RX
Maximum Peak Output Power	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	72 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
Power Spectral Density	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	72 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
6 dB Bandwidth	802.11b	11 Mbps	1/11	TX
	802.11g	54 Mbps	1/11	TX
	802.11n HT20	72 Mbps	1/11	TX
	802.11n HT40	150 Mbps	3/9	TX
Band Emissions	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	72 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
Radiated Emissions	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	72 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX

Note :Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product .

Table 2 Tests Carried Out Under FCC part 15.207 & FCC part 15.209

Test Item	Test Mode
Conduction Emission, 0.15MHz to 30MHz	Normal linking

4.5 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A-1**

Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, July 12, 2012.

- **FCC – Registration No.: 880581**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, May 26, 2011.

4.6 Test Location

Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen, China

4.7 General condition

Ambient Condition: 25.5 °C 58 %RH

5 Equipment Used during Test

5.1 Equipments List

Conducted Emissions at Mains Terminals Disturbance Voltage						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	100947	Sep.18,2013	Sep.17,2014
2.	LISN	R&S	ENV216	101215	Nov. 29,2013	Nov. 28,2014
3.	Cable	Top	TYPE16(3.5M)	-	Sep.18,2013	Sep.17,2014
3m Semi-anechoic Chamber for Radiation						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMC Analyzer	Agilent	E7405A	MY45114943	Sep.18,2013	Sep.17,2014
2	Active Loop Antenna (9kHz-30MHz)	Beijing Dazhi	ZN30900A	-	Sep.18,2013	Sep.17,2014
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.20,2013	Apr.19,2014
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	Sep.18,2013	Sep.17,2014
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.20,2013	Apr.19,2014
6	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Apr.07,2013	Apr.06,2014
7	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	Apr.20,2013	Apr.19,2014
8	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.20,2013	Apr.19,2014

5.2 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (30M~1000MHz)
	± 4.74 dB (1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

5.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

6 Conducted Emission

Test Requirement:	FCC CFR 47 Part 15 Section 15.207
Test Method:	ANSI C63.4:2003
Test Result:	PASS
Frequency Range:	150kHz to 30MHz
Class:	Class B
Limit:	66-56 dB μ V between 0.15MHz & 0.5MHz 56 dB μ V between 0.5MHz & 5MHz 60 dB μ V between 5MHz & 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth) Quasi-Peak & Average if maximised peak within 6dB of Average Limit

6.1 E.U.T. Operation

Operating Environment:

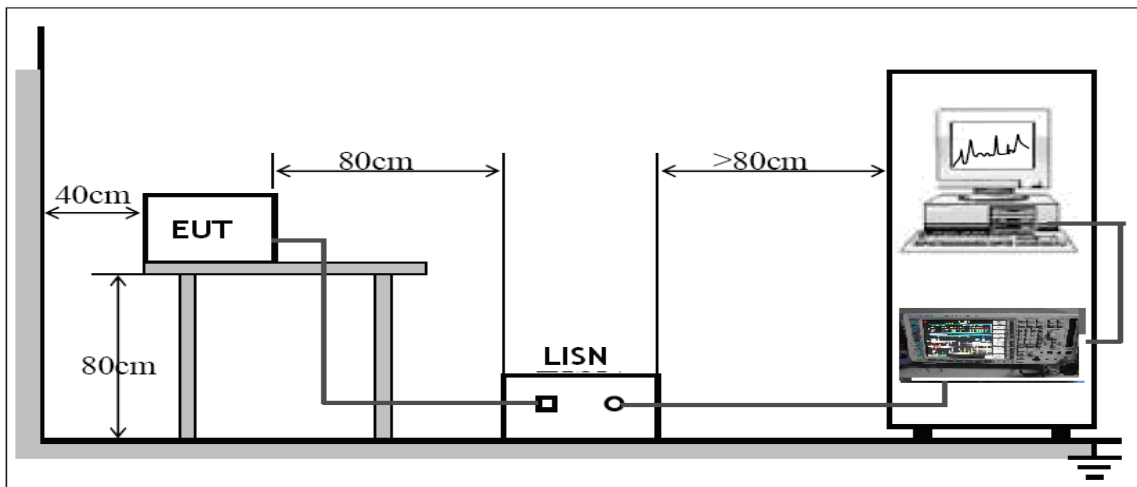
Temperature: 25.5 °C
 Humidity: 50 % RH
 Atmospheric Pressure: 1010 mbar

EUT Operation:

The pre-test was performed in normal linking, the test data were shown as follow.
 The EUT was tested according to ANSI C63.4:2003. The frequency spectrum from 150kHz to 30MHz was investigated.
 The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.2 EUT Setup

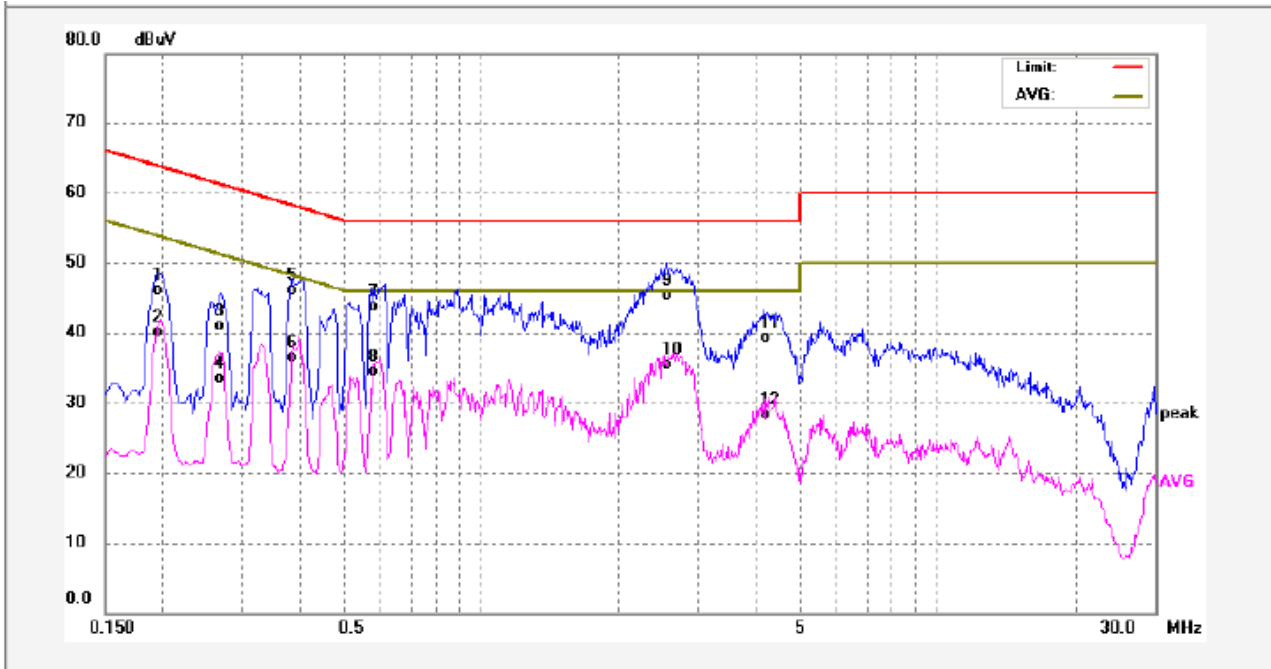
The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003.



6.3 Conducted Emission Test Result

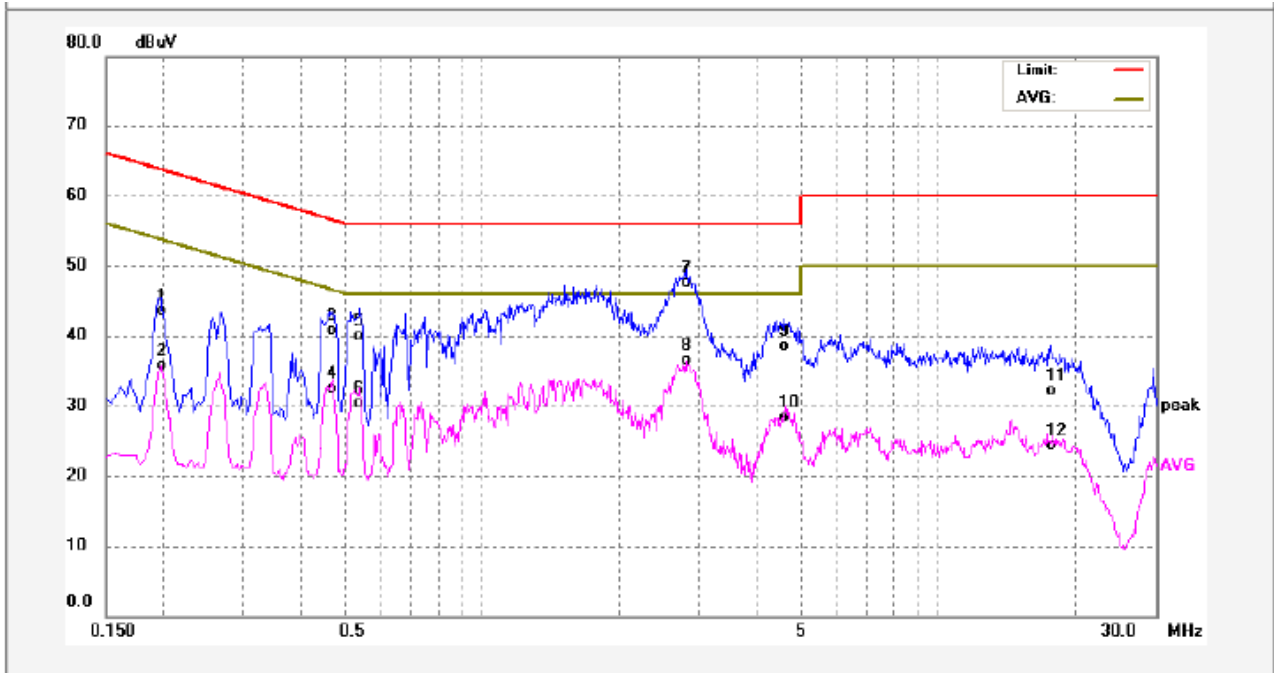
An initial pre-scan was performed on the live and neutral lines.

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1940	34.91	11.28	46.19	63.86	-17.67	QP	
2	0.1940	28.91	11.28	40.19	53.86	-13.67	AVG	
3	0.2700	29.64	11.30	40.94	61.12	-20.18	QP	
4	0.2700	22.22	11.30	33.52	51.12	-17.60	AVG	
5	0.3860	34.77	11.31	46.08	58.15	-12.07	QP	
6	0.3860	25.18	11.31	36.49	48.15	-11.66	AVG	
7	0.5820	32.29	11.32	43.61	56.00	-12.39	QP	
8	0.5820	23.25	11.32	34.57	46.00	-11.43	AVG	
9	2.5500	34.09	11.21	45.30	56.00	-10.70	QP	
10	2.5500	24.28	11.21	35.49	46.00	-10.51	AVG	
11	4.1620	28.01	11.23	39.24	56.00	-16.76	QP	
12	4.1620	17.01	11.23	28.24	46.00	-17.76	AVG	

Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1980	32.27	11.29	43.56	63.69	-20.13	QP	
2	0.1980	24.32	11.29	35.61	53.69	-18.08	AVG	
3	0.4700	29.36	11.31	40.67	56.51	-15.84	QP	
4	0.4700	21.10	11.31	32.41	46.51	-14.10	AVG	
5	0.5380	28.62	11.32	39.94	56.00	-16.06	QP	
6	0.5380	18.98	11.32	30.30	46.00	-15.70	AVG	
7	2.7980	36.29	11.21	47.50	56.00	-8.50	QP	
8	2.7980	25.36	11.21	36.57	46.00	-9.43	AVG	
9	4.5580	27.30	11.23	38.53	56.00	-17.47	QP	
10	4.5580	17.04	11.23	28.27	46.00	-17.73	AVG	
11	17.6220	20.63	11.48	32.11	60.00	-27.89	QP	
12	17.6220	12.87	11.48	24.35	50.00	-25.65	AVG	

7 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.4:2003

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

7.1 EUT Operation :

Operating Environment:

Temperature: 25.5 °C

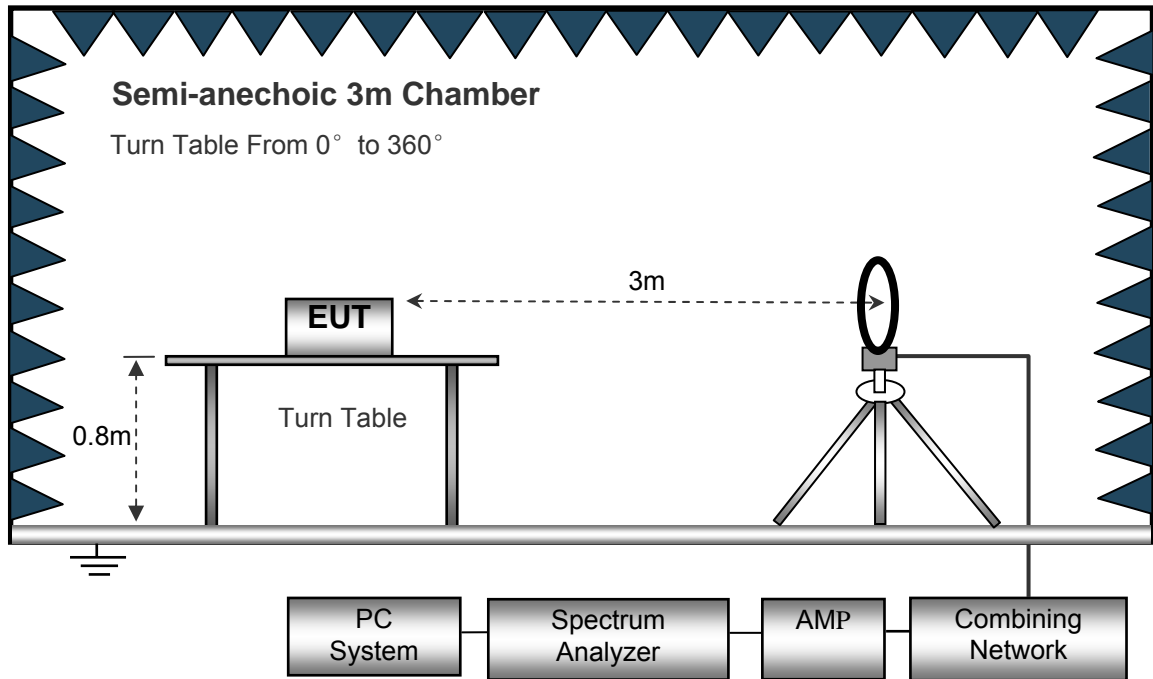
Humidity: 51 % RH

Atmospheric Pressure: 1013 mbar

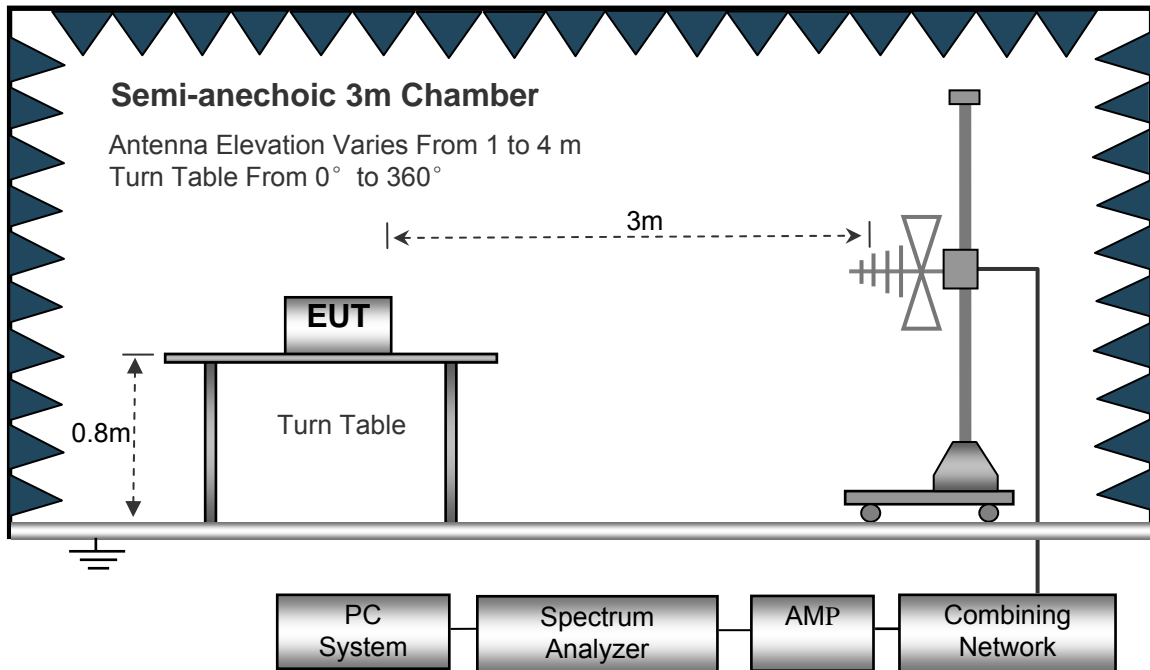
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4: 2003.

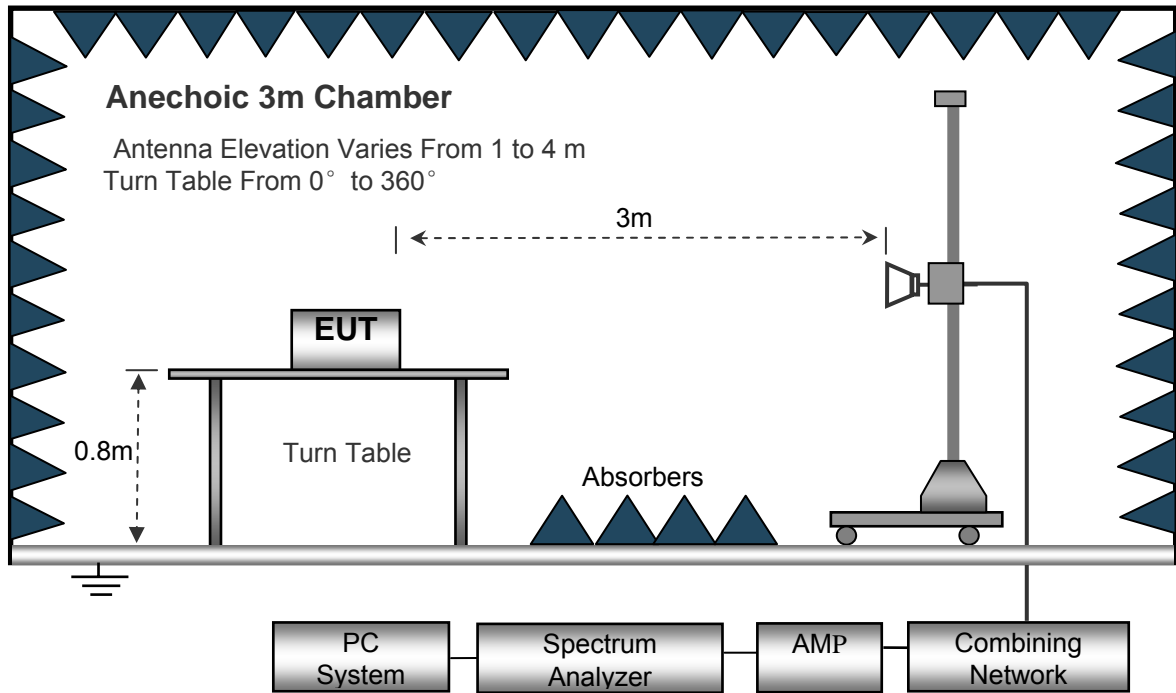
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

According to FCC Part15 Rules, the system was tested from 32.768kHz to 25000MHz.

Below 30MHz

- Sweep SpeedAuto
- IF Bandwidth10kHz
- Video Bandwidth10kHz
- Resolution Bandwidth10kHz

30MHz ~ 1GHz

- Sweep SpeedAuto
- DetectorPK
- Resolution Bandwidth100kHz
- Video Bandwidth300kHz

Above 1GHz

- Sweep SpeedAuto
- DetectorPK
- Resolution Bandwidth1MHz
- Video Bandwidth3MHz
- DetectorAve.
- Resolution Bandwidth1MHz
- Video Bandwidth10Hz

7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used druing radiated emissions above 1GHz measurement.

7.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

7.6 Summary of Test Results

Test Frequency : Below 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 18GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
11b: Low Channel 2412MHz									
468.85	18.62	PK	159	1.3	H	20.52	39.14	46.00	-6.86
468.85	15.27	PK	215	1.9	V	20.52	35.79	46.00	-10.21
4824.00	56.74	PK	350	1.4	H	-2.36	54.38	74.00	-19.62
4824.00	50.51	Ave	350	1.4	H	-2.36	48.15	54.00	-5.85
7236.00	50.25	PK	250	1.3	H	-0.38	49.87	74.00	-24.13
7236.00	43.51	Ave	250	1.3	H	-0.38	43.13	54.00	-10.87
2310.42	46.26	PK	238	1.3	V	-13.19	33.07	74.00	-40.93
2310.42	37.24	Ave	238	1.3	V	-13.19	24.05	54.00	-29.95
2384.18	43.50	PK	73	1.7	H	-13.14	30.36	74.00	-43.64
2384.18	36.32	Ave	73	1.7	H	-13.14	23.18	54.00	-30.82
2492.93	42.58	PK	260	1.9	V	-13.08	29.50	74.00	-44.50
2492.93	38.29	Ave	260	1.9	V	-13.08	25.21	54.00	-28.79

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
11b: Middle Channel 2437MHz									
468.85	18.32	PK	5	1.6	H	20.52	38.84	46.00	-7.16
468.85	15.37	PK	22	1.7	V	20.52	35.89	46.00	-10.11
4874.00	55.68	PK	317	1.2	H	0.09	55.77	74.00	-18.23
4874.00	49.37	Ave	317	1.2	H	0.09	49.46	54.00	-4.54
7311.00	48.69	PK	131	1.3	H	3.01	51.70	74.00	-22.30
7311.00	42.57	Ave	131	1.3	H	3.01	45.58	54.00	-8.42
9748.00	45.63	PK	257	1.4	H	3.07	48.70	74.00	-25.30
9748.00	38.52	Ave	257	1.4	H	3.07	41.59	54.00	-12.41
2367.42	44.98	PK	190	1.6	V	-13.14	31.84	74.00	-42.16
2367.42	38.98	Ave	190	1.6	V	-13.14	25.84	54.00	-28.16
2490.61	44.67	PK	334	1.7	H	-13.08	31.59	74.00	-42.41
2490.61	37.16	Ave	334	1.7	H	-13.08	24.08	54.00	-29.92

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: High Channel 2462MHz									
468.85	18.46	PK	175	1.6	H	20.52	38.98	46.00	-7.02
468.85	16.03	PK	68	1.6	V	20.52	36.55	46.00	-9.45
4924.00	51.31	PK	158	1.6	H	0.02	51.33	74.00	-22.67
4924.00	48.32	Ave	158	1.6	H	0.02	48.34	54.00	-5.66
7386.00	48.31	PK	221	1.2	H	2.58	50.89	74.00	-23.11
7386.00	39.50	Ave	221	1.2	H	2.58	42.08	54.00	-11.92
2345.74	45.92	PK	257	1.8	V	-13.19	32.73	74.00	-41.27
2345.74	37.52	Ave	257	1.8	V	-13.19	24.33	54.00	-29.67
2361.40	42.15	PK	125	1.7	H	-13.14	29.01	74.00	-44.99
2361.40	37.90	Ave	125	1.7	H	-13.14	24.76	54.00	-29.24
2498.11	42.90	PK	230	1.8	V	-13.08	29.82	74.00	-44.18
2498.11	36.22	Ave	230	1.8	V	-13.08	23.14	54.00	-30.86

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
11g: Low Channel 2412MHz									
563.52	17.62	PK	79	1.8	H	22.85	40.47	46.00	-5.53
563.52	14.86	PK	41	1.8	V	22.85	37.71	46.00	-8.29
4824.00	58.51	PK	240	1.9	H	-2.36	56.15	74.00	-17.85
4824.00	47.32	Ave	240	1.9	H	-2.36	44.96	54.00	-9.04
7236.00	52.58	PK	183	1.6	H	-0.38	52.20	74.00	-21.80
7236.00	41.51	Ave	183	1.6	H	-0.38	41.13	54.00	-12.87
2337.51	46.80	PK	67	1.1	V	-13.19	33.61	74.00	-40.39
2337.51	38.47	Ave	67	1.1	V	-13.19	25.28	54.00	-28.72
2351.72	42.65	PK	321	1.7	H	-13.14	29.51	74.00	-44.49
2351.72	38.82	Ave	321	1.7	H	-13.14	25.68	54.00	-28.32
2499.08	44.92	PK	173	1.7	V	-13.08	31.84	74.00	-42.16
2499.08	36.01	Ave	173	1.7	V	-13.08	22.93	54.00	-31.07

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
11g: Middle Channel 2437MHz									
563.52	17.35	PK	354	1.6	H	22.85	40.20	46.00	-5.80
563.52	14.62	PK	92	1.8	V	22.85	37.47	46.00	-8.53
4874.00	58.36	PK	115	1.4	H	0.09	58.45	74.00	-15.55
4874.00	47.13	Ave	115	1.4	H	0.09	47.22	54.00	-6.78
7311.00	52.63	PK	73	1.1	H	3.01	55.64	74.00	-18.36
7311.00	40.89	Ave	73	1.1	H	3.01	43.90	54.00	-10.10
9748.00	45.63	PK	295	1.4	H	3.07	48.70	74.00	-25.30
9748.00	36.74	Ave	295	1.4	H	3.07	39.81	54.00	-14.19
2368.18	43.39	PK	220	1.8	V	-13.14	30.25	74.00	-43.75
2368.18	38.69	Ave	220	1.8	V	-13.14	25.55	54.00	-28.45
2488.07	43.76	PK	47	1.6	H	-13.08	30.68	74.00	-43.32
2488.07	36.43	Ave	47	1.6	H	-13.08	23.35	54.00	-30.65

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
11g: High Channel 2462MHz									
563.52	17.74	PK	206	1.7	H	22.85	40.59	46.00	-5.41
563.52	14.52	PK	217	1.9	V	22.85	37.37	46.00	-8.63
4924.00	59.02	PK	97	1.4	H	0.02	59.04	74.00	-14.96
4924.00	47.87	Ave	97	1.4	H	0.02	47.89	54.00	-6.11
7386.00	52.78	PK	94	1.5	H	2.58	55.36	74.00	-18.64
7386.00	41.52	Ave	94	1.5	H	2.58	44.10	54.00	-9.90
2337.10	46.84	PK	88	1.6	V	-13.19	33.65	74.00	-40.35
2337.10	39.24	Ave	88	1.6	V	-13.19	26.05	54.00	-27.95
2367.56	42.49	PK	316	1.2	H	-13.14	29.35	74.00	-44.65
2367.56	37.12	Ave	316	1.2	H	-13.14	23.98	54.00	-30.02
2492.91	42.60	PK	184	1.3	V	-13.08	29.52	74.00	-44.48
2492.91	38.72	Ave	184	1.3	V	-13.08	25.64	54.00	-28.36

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
n20: Low Channel 2412MHz									
436.52	18.32	PK	121	1.2	H	20.56	38.88	46.00	-7.12
436.52	15.06	PK	93	1.6	V	20.56	35.62	46.00	-10.38
4824.00	57.86	PK	77	1.8	H	-2.36	55.50	74.00	-18.50
4824.00	46.32	Ave	77	1.8	H	-2.36	43.96	54.00	-10.04
7236.00	52.58	PK	179	1.5	H	-0.38	52.20	74.00	-21.80
7236.00	41.51	Ave	179	1.5	H	-0.38	41.13	54.00	-12.87
2336.72	45.22	PK	327	1.4	V	-13.19	32.03	74.00	-41.97
2336.72	38.73	Ave	327	1.4	V	-13.19	25.54	54.00	-28.46
2378.32	42.91	PK	253	1.2	H	-13.14	29.77	74.00	-44.23
2378.32	38.03	Ave	253	1.2	H	-13.14	24.89	54.00	-29.11
2492.68	44.58	PK	173	1.4	V	-13.08	31.50	74.00	-42.50
2492.68	38.86	Ave	173	1.4	V	-13.08	25.78	54.00	-28.22

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
n20:Middle Channel 2437MHz									
436.52	17.93	PK	112	1.7	H	20.56	38.49	46.00	-7.51
436.52	15.63	PK	210	1.4	V	20.56	36.19	46.00	-9.81
4874.00	57.62	PK	64	1.7	H	0.09	57.71	74.00	-16.29
4874.00	46.42	Ave	64	1.7	H	0.09	46.51	54.00	-7.49
7311.00	51.82	PK	115	2.0	H	3.01	54.83	74.00	-19.17
7311.00	40.08	Ave	115	2.0	H	3.01	43.09	54.00	-10.91
9748.00	44.63	PK	207	1.4	H	3.07	47.70	74.00	-26.30
9748.00	35.84	Ave	207	1.4	H	3.07	38.91	54.00	-15.09
2362.40	44.70	PK	316	1.9	V	-13.14	31.56	74.00	-42.44
2362.40	36.88	Ave	316	1.9	V	-13.14	23.74	54.00	-30.26
2499.52	44.62	PK	97	1.6	H	-13.08	31.54	74.00	-42.46
2499.52	37.06	Ave	97	1.6	H	-13.08	23.98	54.00	-30.02

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
n20: High Channel 2462MHz									
436.52	18.75	PK	287	1.4	H	20.56	39.31	46.00	-6.69
436.52	15.24	PK	132	1.8	V	20.56	35.80	46.00	-10.20
4924.00	58.21	PK	240	1.1	H	0.02	58.23	74.00	-15.77
4924.00	47.03	Ave	240	1.1	H	0.02	47.05	54.00	-6.95
7386.00	52.32	PK	345	1.3	H	2.58	54.90	74.00	-19.10
7386.00	41.18	Ave	345	1.3	H	2.58	43.76	54.00	-10.24
2325.71	45.32	PK	39	1.5	V	-13.19	32.13	74.00	-41.87
2325.71	39.66	Ave	39	1.5	V	-13.19	26.47	54.00	-27.53
2359.28	44.28	PK	189	1.5	H	-13.14	31.14	74.00	-42.86
2359.28	38.55	Ave	189	1.5	H	-13.14	25.41	54.00	-28.59
2489.56	43.33	PK	14	1.9	V	-13.08	30.25	74.00	-43.75
2489.56	38.33	Ave	14	1.9	V	-13.08	25.25	54.00	-28.75

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
n40: Low Channel 2422MHz									
645.23	15.32	PK	258	1.1	H	25.30	40.62	46.00	-5.38
645.23	13.21	PK	89	1.5	V	25.30	38.51	46.00	-7.49
4844.00	57.62	PK	84	1.0	H	-2.15	55.47	74.00	-18.53
4844.00	46.32	Ave	84	1.0	H	-2.15	44.17	54.00	-9.83
7236.00	53.21	PK	342	1.9	H	-0.17	53.04	74.00	-20.96
7236.00	41.67	Ave	342	1.9	H	-0.17	41.50	54.00	-12.50
2310.59	45.89	PK	177	1.5	V	-13.19	32.70	74.00	-41.30
2310.59	39.16	Ave	177	1.5	V	-13.19	25.97	54.00	-28.03
2374.10	43.75	PK	238	1.4	H	-13.14	30.61	74.00	-43.39
2374.10	38.20	Ave	238	1.4	H	-13.14	25.06	54.00	-28.94
2495.58	44.70	PK	16	1.4	V	-13.08	31.62	74.00	-42.38
2495.58	36.23	Ave	16	1.4	V	-13.08	23.15	54.00	-30.85

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
n40:Middle Channel 2437MHz									
645.23	14.68	PK	23	1.4	H	25.30	39.98	46.00	-6.02
645.23	11.52	PK	237	1.3	V	25.30	36.82	46.00	-9.18
4874.00	58.02	PK	68	1.7	H	0.09	58.11	74.00	-15.89
4874.00	46.91	Ave	68	1.7	H	0.09	47.00	54.00	-7.00
7311.00	53.62	PK	142	1.8	H	3.01	56.63	74.00	-17.37
7311.00	42.17	Ave	142	1.8	H	3.01	45.18	54.00	-8.82
9748.00	44.63	PK	74	1.3	H	3.07	47.70	74.00	-26.30
9748.00	34.87	Ave	74	1.3	H	3.07	37.94	54.00	-16.06
2369.47	42.09	PK	212	1.6	V	-13.14	28.95	74.00	-45.05
2369.47	36.77	Ave	212	1.6	V	-13.14	23.63	54.00	-30.37
2490.12	43.49	PK	336	1.7	H	-13.08	30.41	74.00	-43.59
2490.12	37.70	Ave	336	1.7	H	-13.08	24.62	54.00	-29.38

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
n40: High Channel 2452MHz									
645.23	14.39	PK	67	1.2	H	25.30	39.69	46.00	-6.31
645.23	11.17	PK	1	1.3	V	25.30	36.47	46.00	-9.53
4904.00	58.46	PK	67	1.5	H	0.09	58.55	74.00	-15.45
4904.00	47.36	Ave	67	1.5	H	0.09	47.45	54.00	-6.55
7356.00	53.41	PK	179	1.9	H	2.58	55.99	74.00	-18.01
7356.00	42.38	Ave	179	1.9	H	2.58	44.96	54.00	-9.04
2331.72	45.32	PK	239	1.6	V	-13.19	32.13	74.00	-41.87
2331.72	37.67	Ave	239	1.6	V	-13.19	24.48	54.00	-29.52
2385.06	44.31	PK	128	1.2	H	-13.14	31.17	74.00	-42.83
2385.06	36.01	Ave	128	1.2	H	-13.14	22.87	54.00	-31.13
2494.83	43.03	PK	56	1.2	V	-13.08	29.95	74.00	-44.05
2494.83	36.60	Ave	56	1.2	V	-13.08	23.52	54.00	-30.48

Test Frequency: Above 18GHz

The measurements were more than 20 dB below the limit and not reported.

8 Band Edge Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB558074 D01 v03r01 04/09/2013
Detector: For Peak value:
RBW = 100kHz
VBW = 300kHz; Sweep = auto
Detector function = p
Trace = max hold

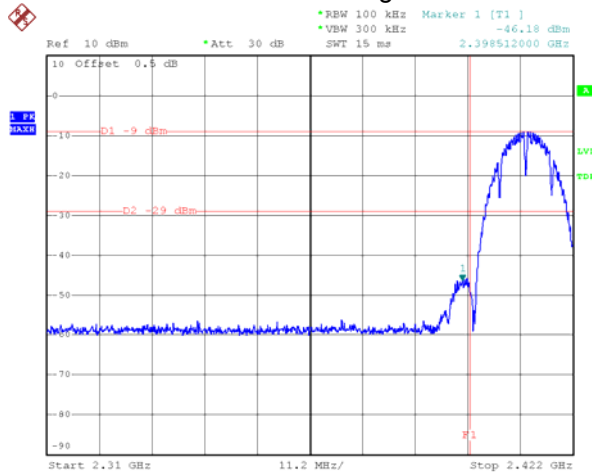
8.1 Test Produce

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

8.2 Test Result

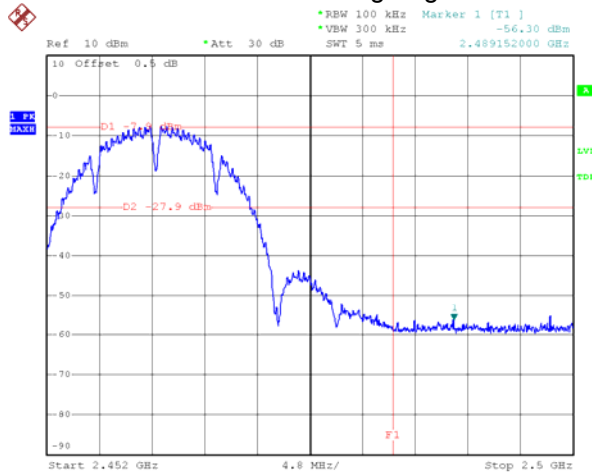
Test result plots shown as follows:

TX 11b: Band edge-left side



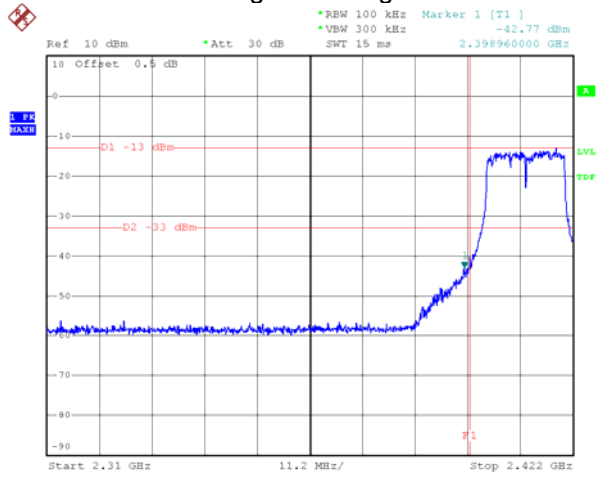
1
Date: 10.DEC.2013 15:20:32

TX 11b: Band edge-right side



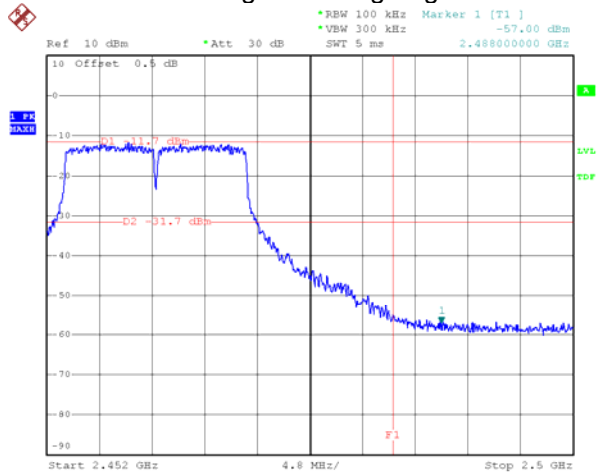
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Date: 10.DEC.2013 15:23:33

TX 11g: Band edge-left side



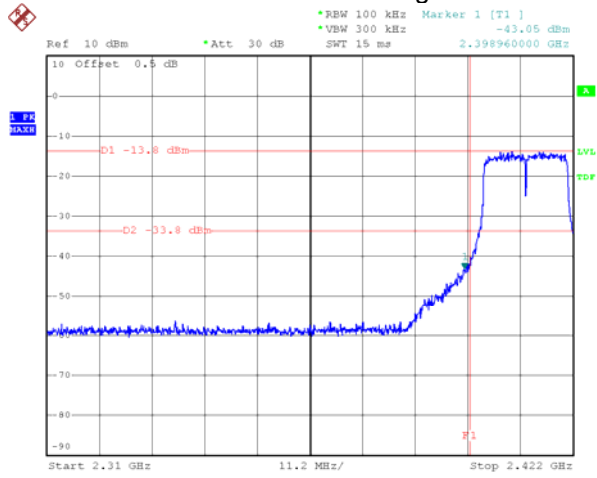
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Date: 10.DEC.2013 15:19:22

TX 11g: Band edge-right side



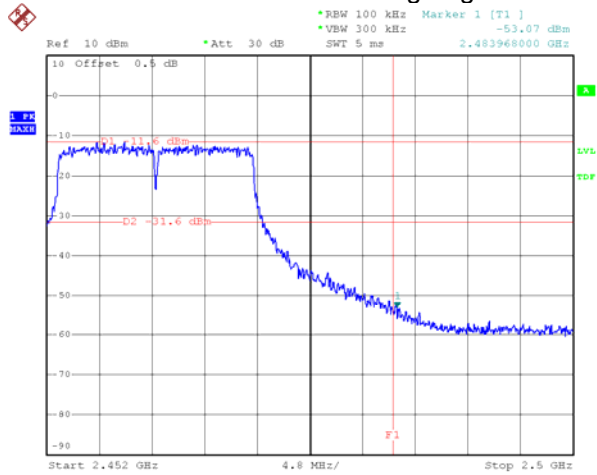
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Date: 10.DEC.2013 15:25:18

TX 11n HT20: Band edge-left side



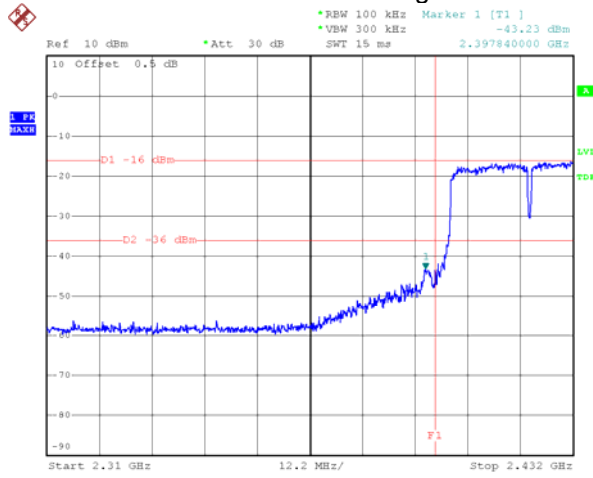
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Date: 10.DEC.2013 15:17:30

TX 11n HT20: Band edge-right side



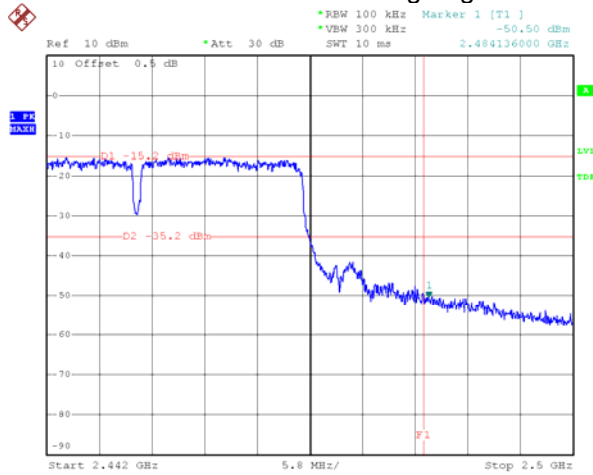
1
Date: 10.DEC.2013 15:26:23

TX 11n HT40: Band edge-left side



1
Date: 10.DEC.2013 15:14:57

TX 11n HT40: Band edge-right side



1
Date: 10.DEC.2013 15:12:30

9 6 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB558074 D01 v03r01 04/09/2013

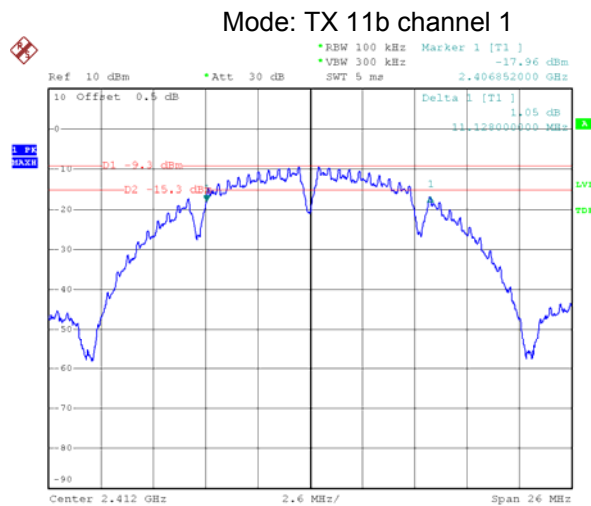
9.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

9.2 Test Result:

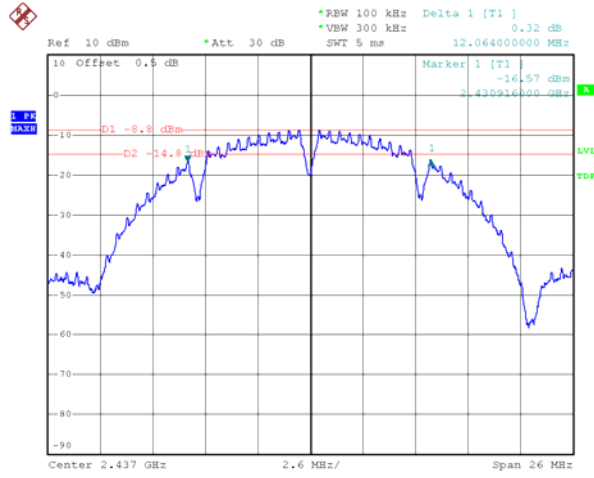
Operation mode	Bandwidth (MHz)		
	Channel 1	Channel 6	Channel 11
TX 11b	11.128	12.064	12.012
TX 11g	16.536	16.64	16.588
TX 11n HT 20	17.844	17.784	17.732
TX 11n HT 40	36.464	36.624	36.504

Test result plot as follows:



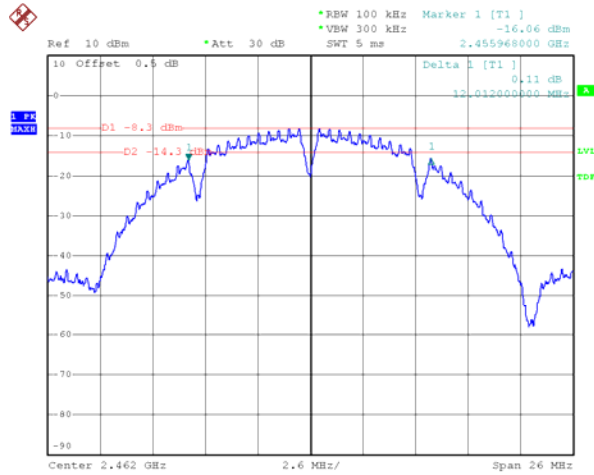
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Date: 10.DEC.2013 14:08:38

Mode: TX 11b channel 6

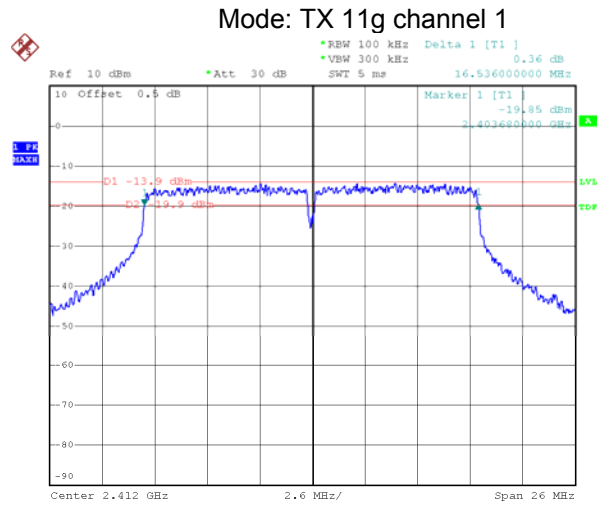


1
Date: 10.DEC.2013 14:10:07

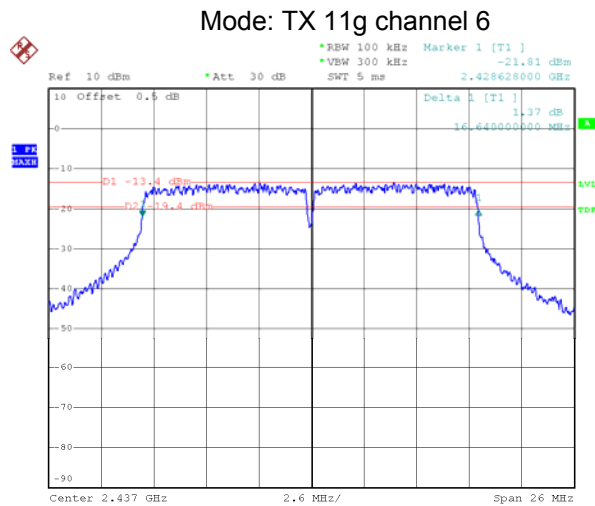
Mode: TX 11b channel 11



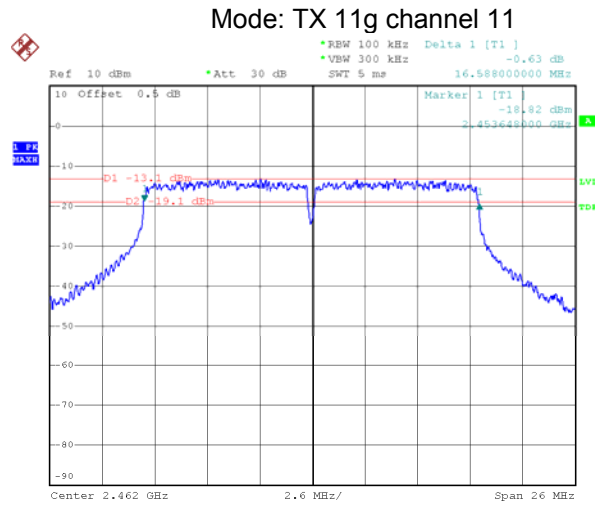
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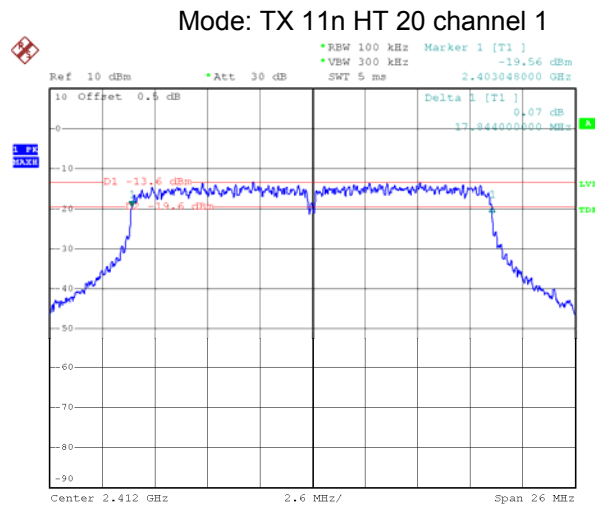
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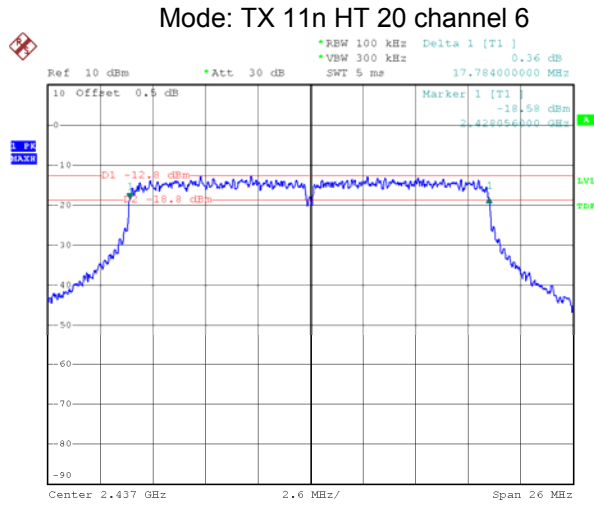
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Date: 10.DEC.2013 13:59:38



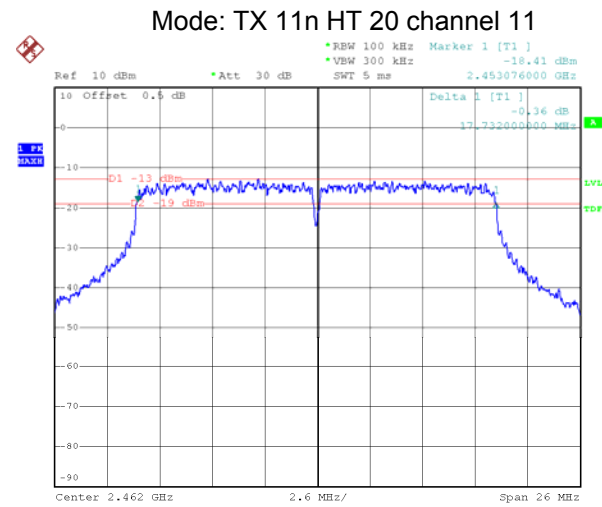
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Date: 10.DEC.2013 13:38:31

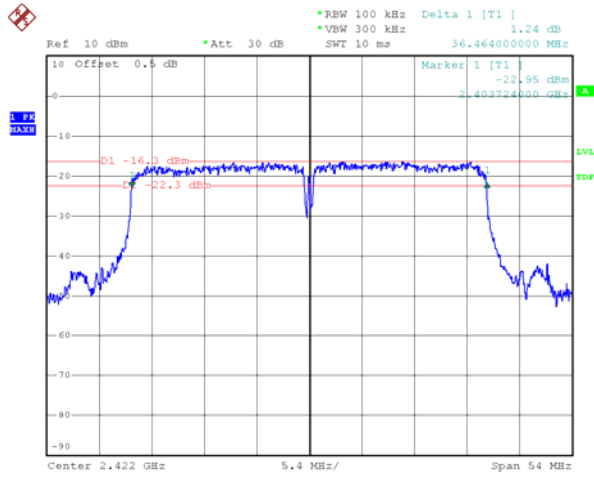


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Date: 10.DEC.2013 13:43:21



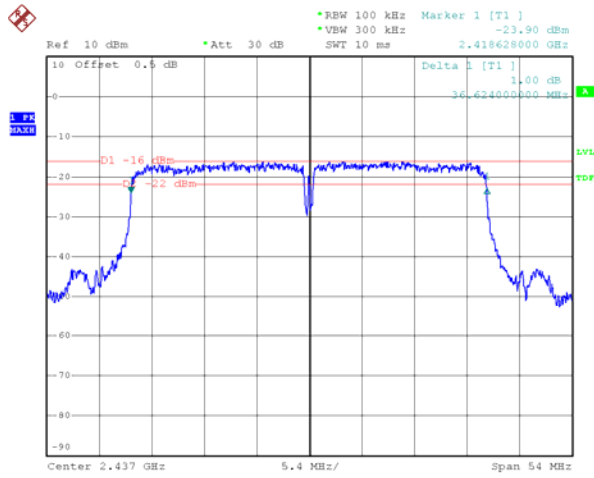
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Date: 10.DEC.2013 13:56:20

Mode: TX 11n HT 40 channel 3



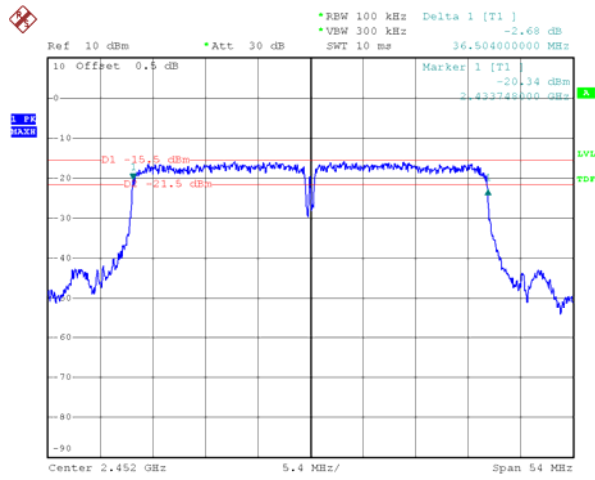
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Date: 10.DEC.2013 13:33:37

Mode: TX 11n HT 40 channel 7



1
Date: 10.DEC.2013 13:30:43

Mode: TX 11n HT 40 channel 9



1
Date: 10.DEC.2013 13:28:22

10 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB558074 D01 v03r01 04/09/2013

10.1 Test Procedure:

KDB558074 D01 v03r01 04/09/2013 section 9.1.2

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 1 MHz. VBW = 3 MHz. Sweep = auto; Detector Function = Peak, Set the span to fully encompass the DTS bandwidth.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

10.2 Test Result:

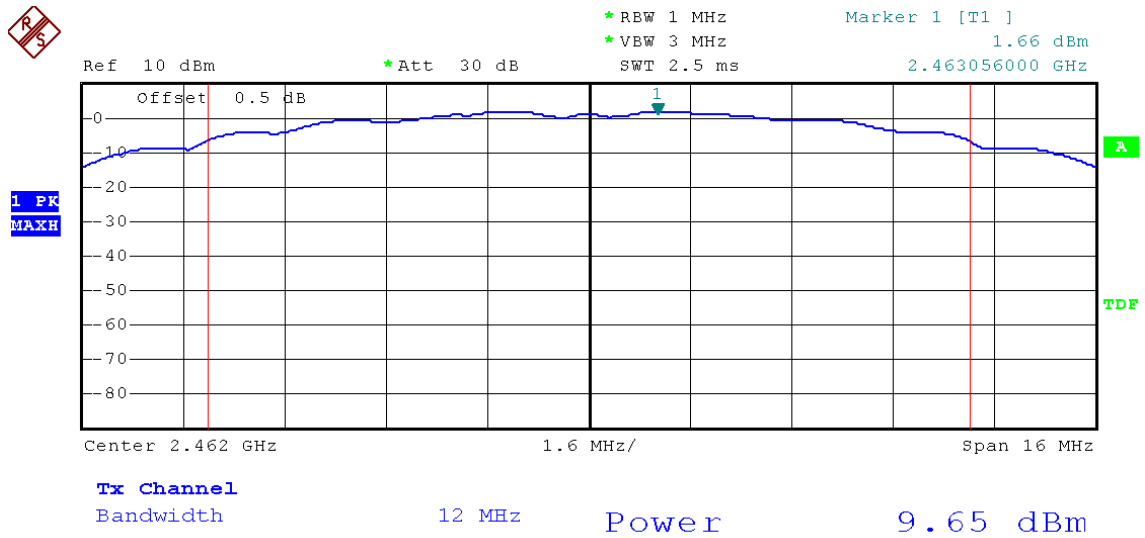
Test mode :TX 11b		
10 Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
8.81	9.62	9.65
Limit		
1W/30dBm		

Test mode :TX 11g		
10 Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
8.69	9.5	9.6
Limit		
1W/30dBm		

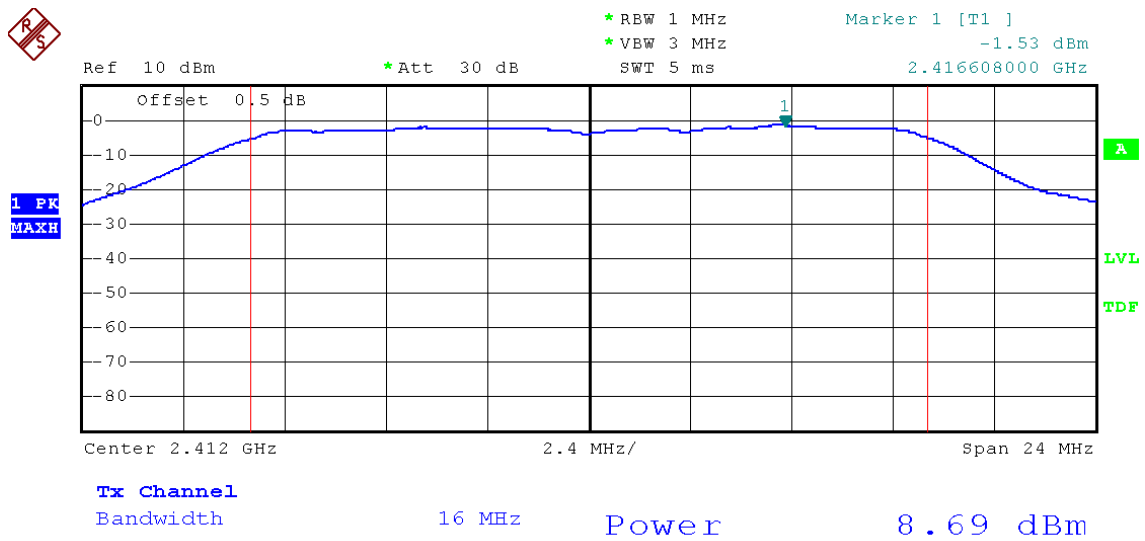
Test mode :TX 11n HT 20		
10 Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
8.78	9.6	9.79
Limit		
1W/30dBm		

Test mode :TX 11n HT 40		
10 Maximum Peak Output Power (dBm)		
2422MHz	2437MHz	2452MHz
9.11	9.49	9.58
Limit		
1W/30dBm		

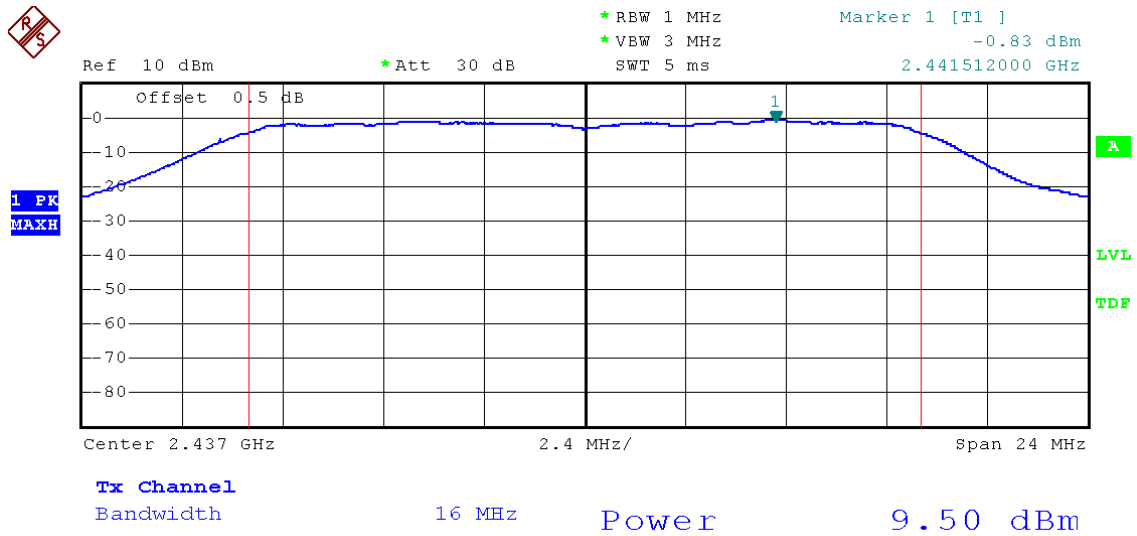
Mode: TX 11b channel 11



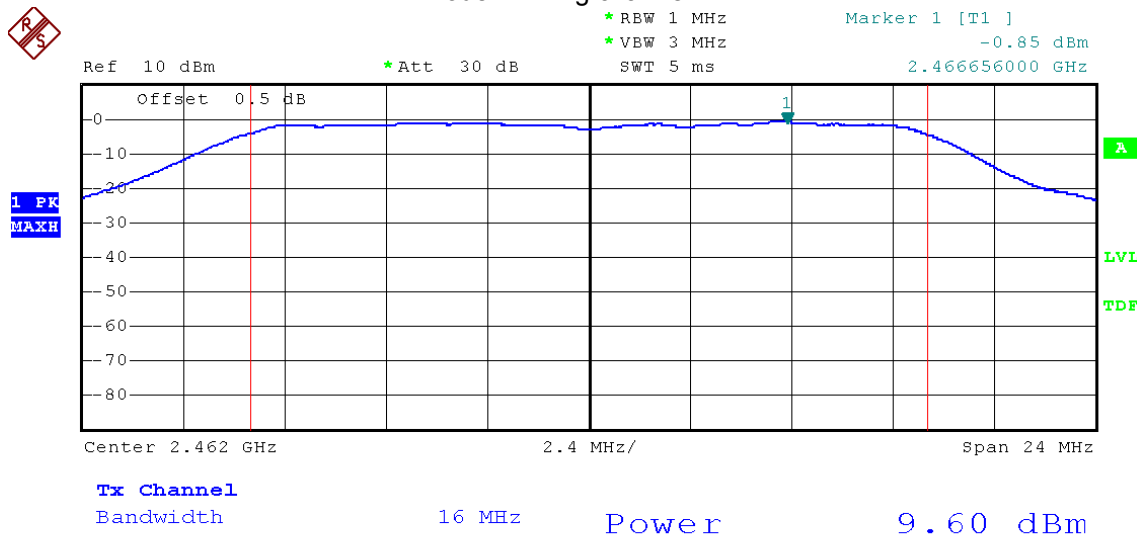
Mode :TX 11g channel 1



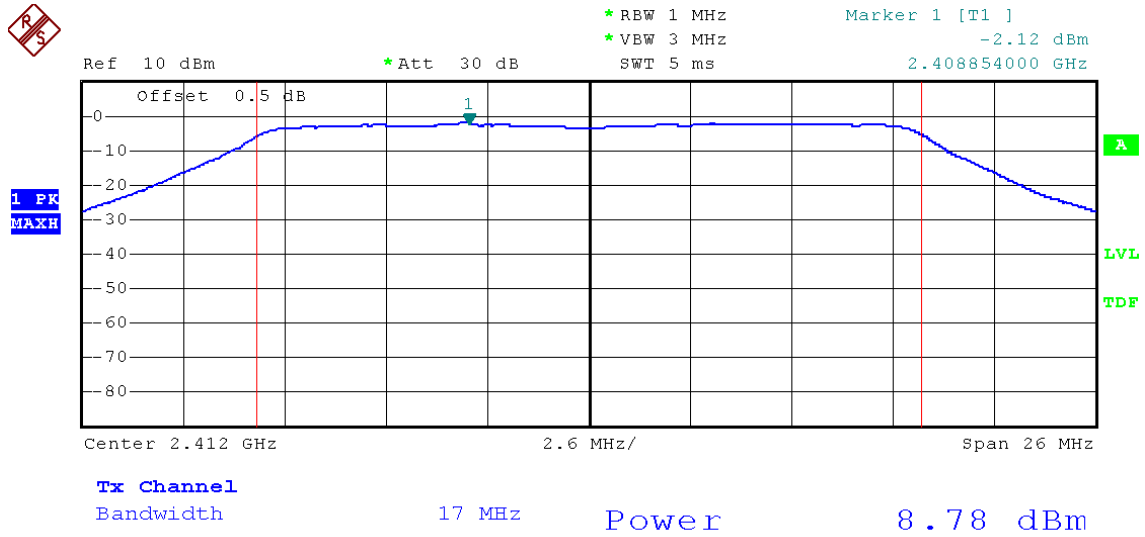
Mode :TX 11g channel 6



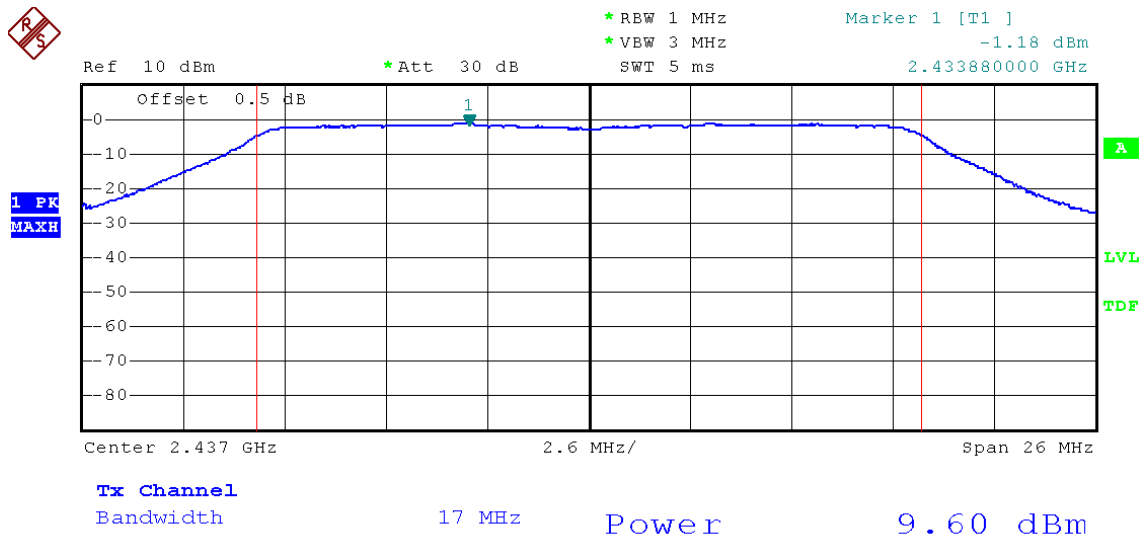
Mode :TX 11g channel 11



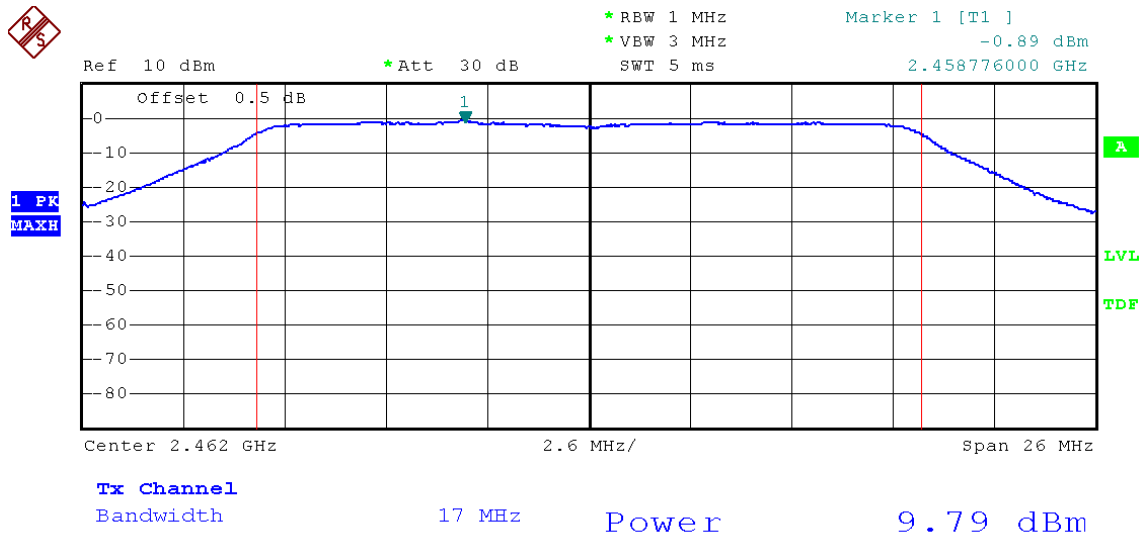
Mode :TX 11n HT 20 channel 1



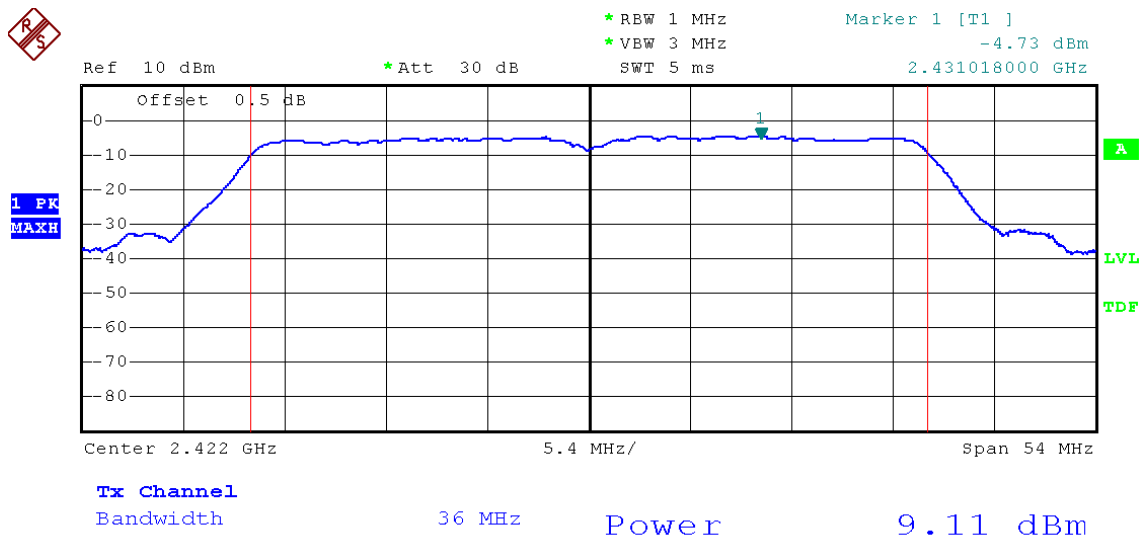
Mode :TX 11n HT 20 channel 6



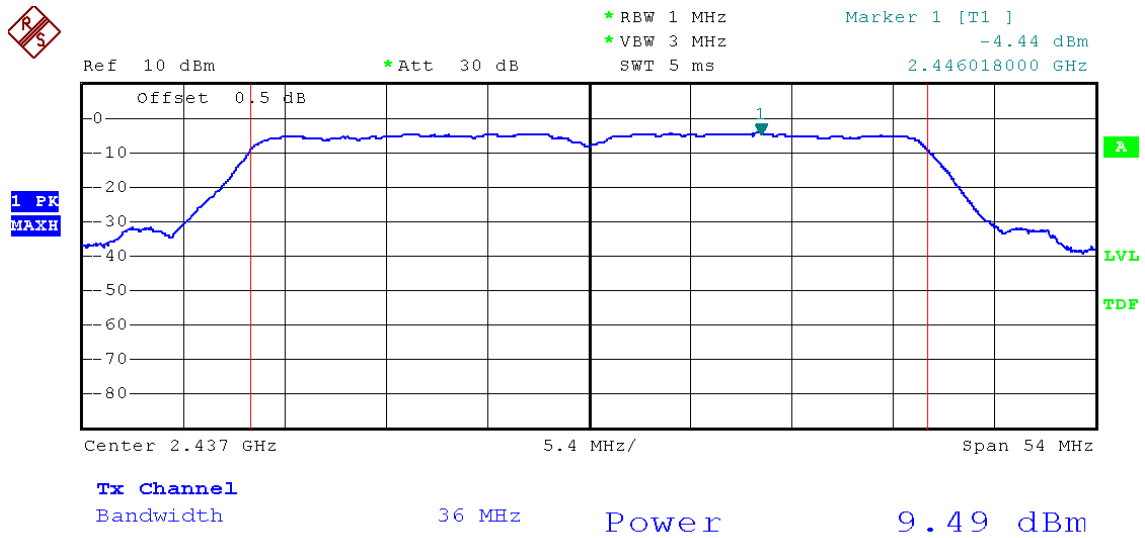
Mode :TX 11n HT 20 channel 11



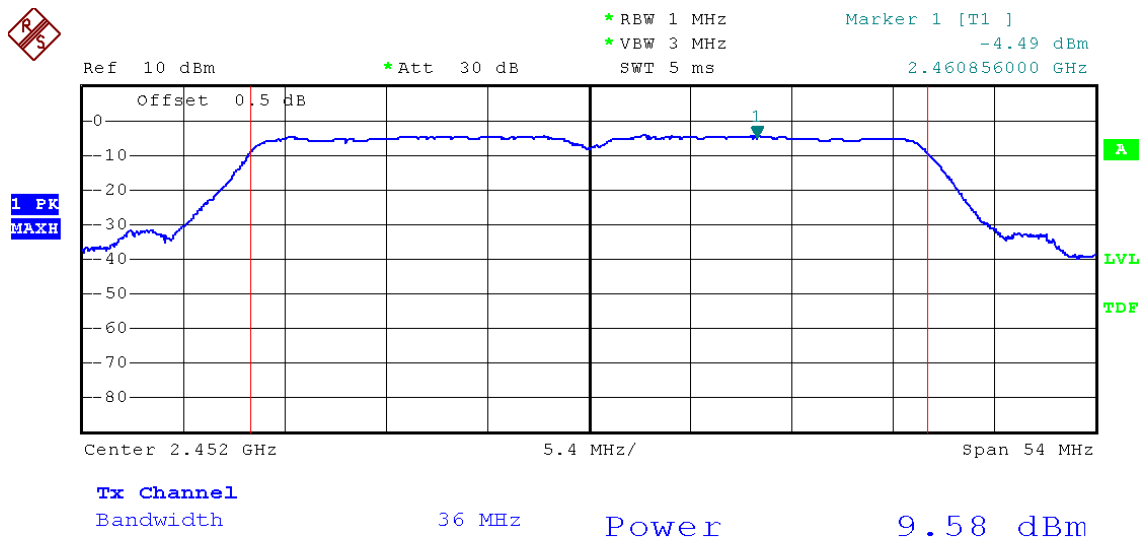
Mode: TX 11n HT 40 channel 3



Mode: TX 11n HT 40 channel 7



Mode: TX 11n HT 40 channel 9



11 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB558074 D01 v03r01 04/09/2013

11.1 Test Procedure:

KDB558074 D01 v03r01 04/09/2013 section 10.2

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section
Submit this plot.

11.2 Test Result:

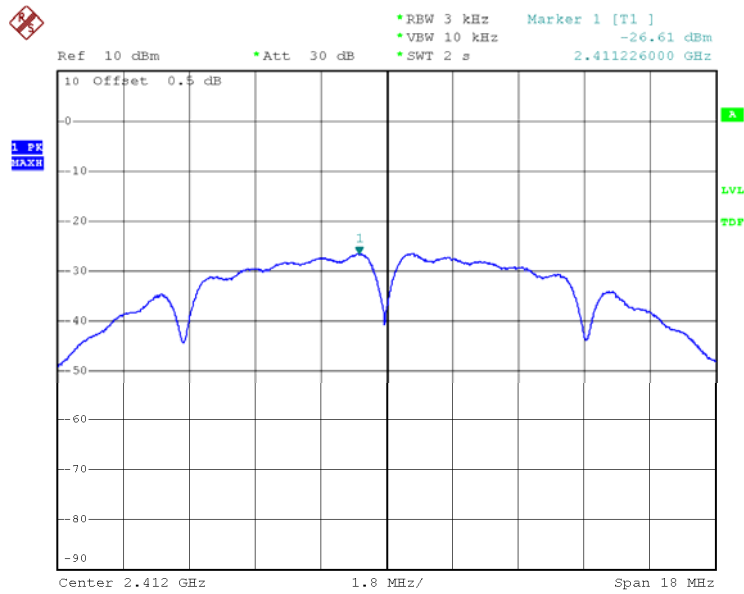
Test mode :TX 11b		
10 Maximum Peak Output Power (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-26.61	-25.85	-25.26
Limit		
8dBm per 3kHz		

Test mode :TX 11g		
10 Maximum Peak Output Power (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-28.61	-27.71	-27.53
Limit		
8dBm per 3kHz		

Test mode :TX 11n HT 20		
10 Maximum Peak Output Power (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-27.93	-27.09	-25.85
Limit		
8dBm per 3kHz		

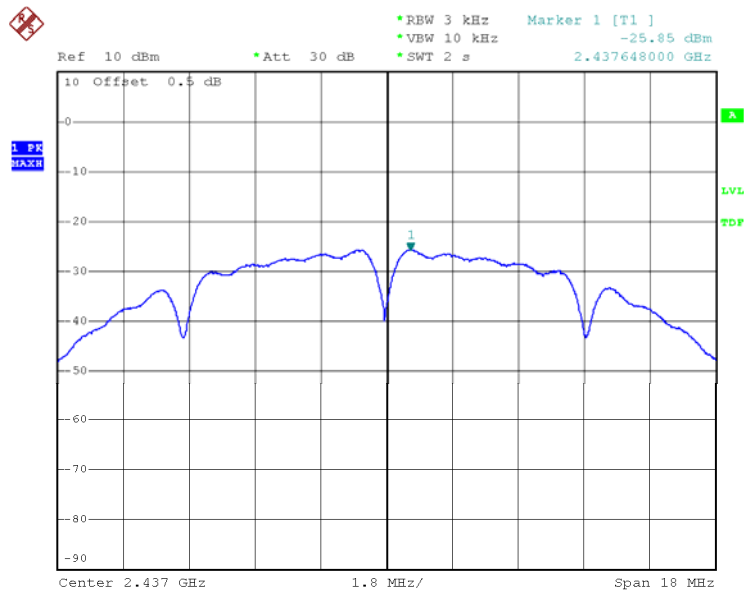
Test mode :TX 11n HT 40		
10 Maximum Peak Output Power (dBm per 3kHz)		
2422MHz	2437MHz	2452MHz
-27.5	-26.59	-26.78
Limit		
8dBm per 3kHz		

Mode: TX 11b channel 1



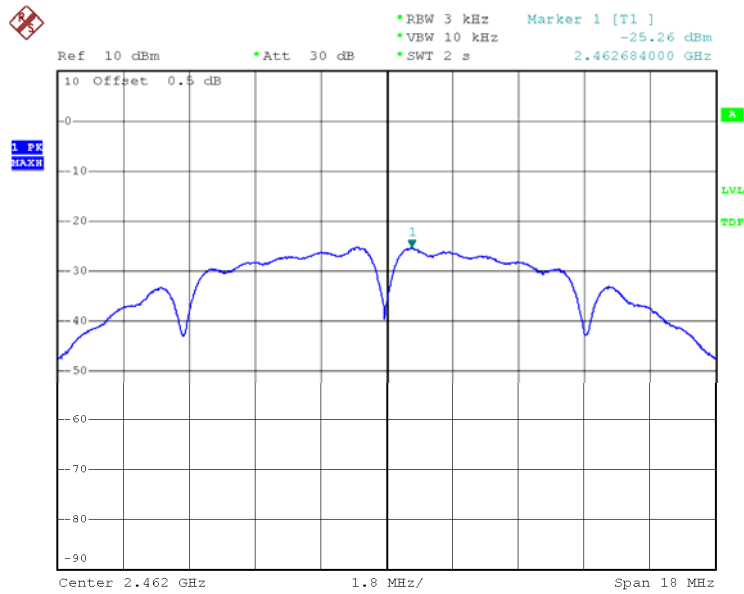
1
Date: 10.DEC.2013 14:19:48

Mode: TX 11b channel 6



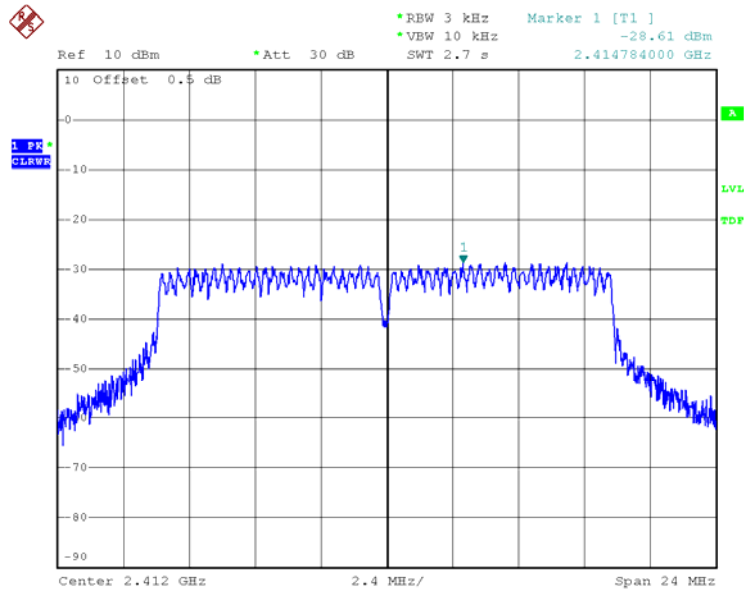
1
Date: 10.DEC.2013 14:20:44

Mode: TX 11b channel 11



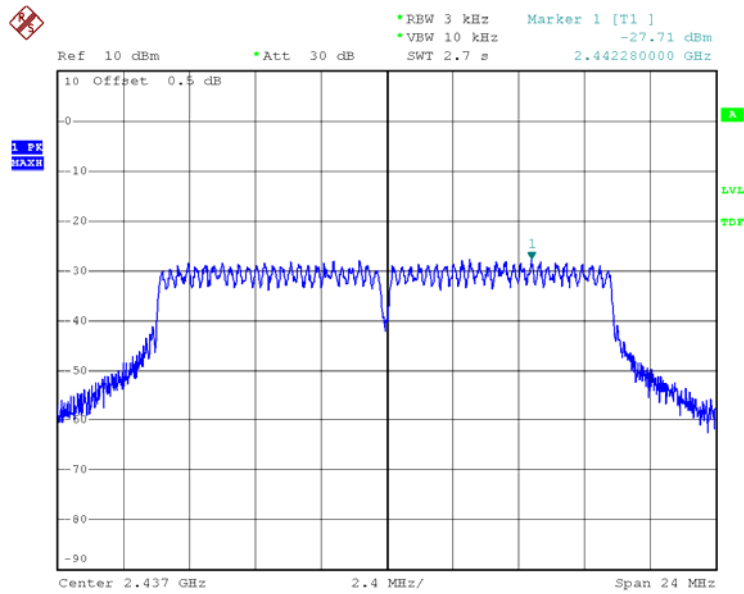
1
Date: 10.DEC.2013 14:21:26

Mode :TX 11g channel 1



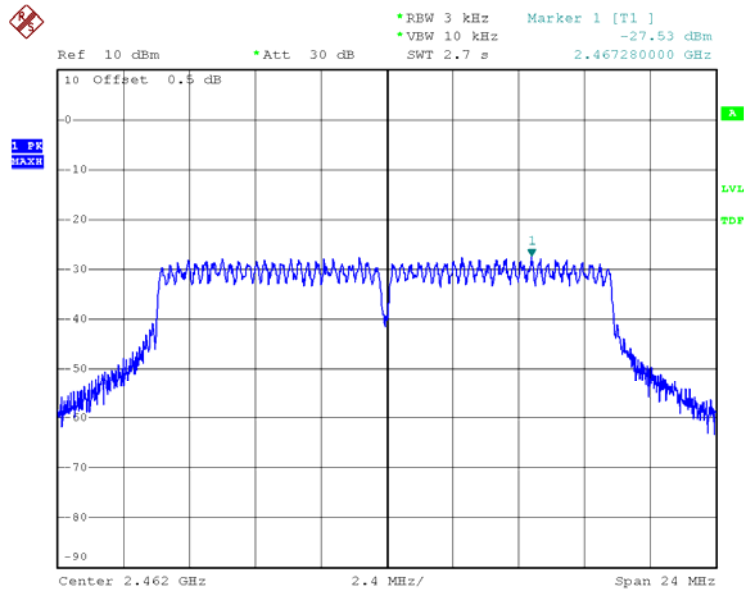
1
Date: 10.DEC.2013 14:34:48

Mode :TX 11g channel 6



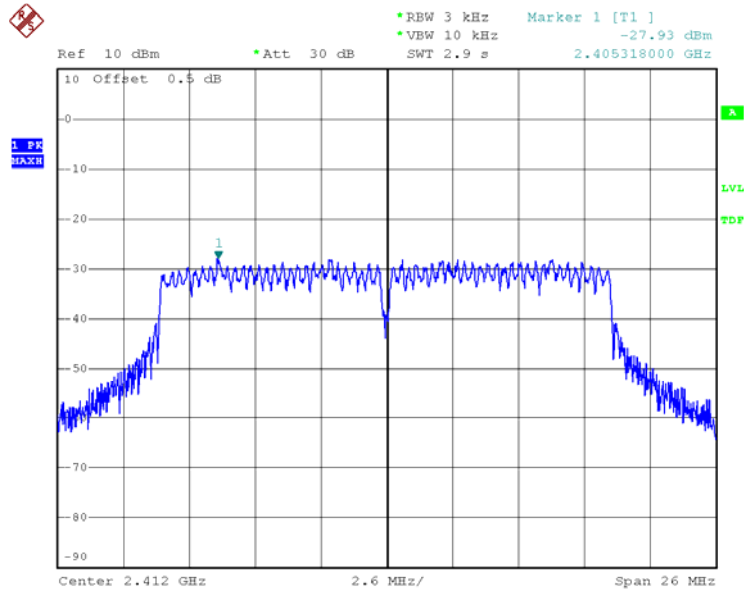
1
Date: 10.DEC.2013 14:26:26

Mode :TX 11g channel 11



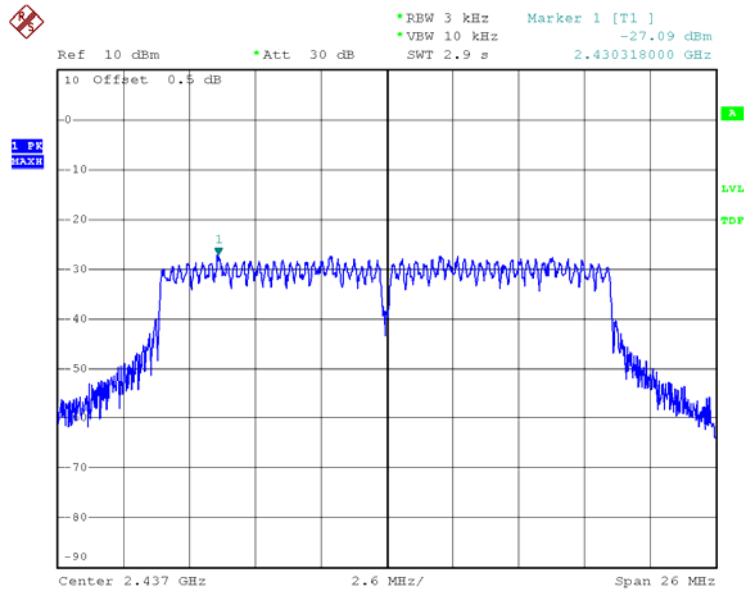
1
Date: 10.DEC.2013 14:24:55

Mode :TX 11n HT 20 channel 1



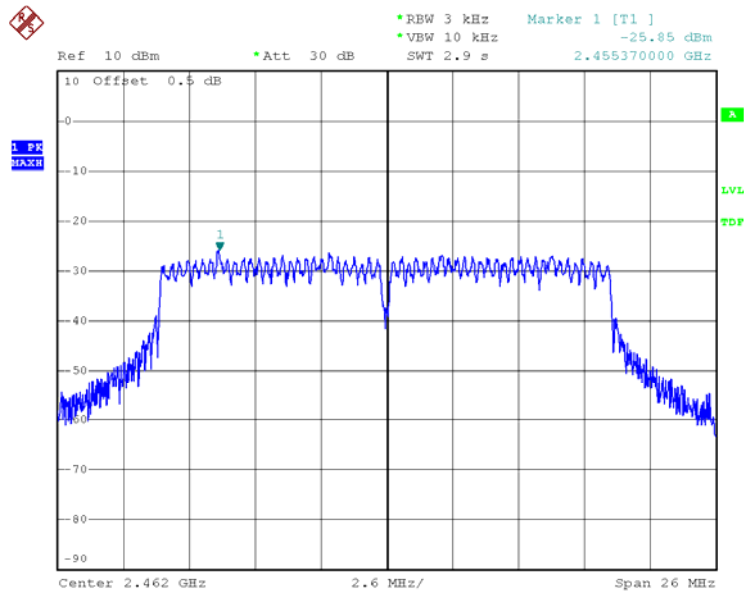
1
Date: 10.DEC.2013 14:36:27

Mode :TX 11n HT 20 channel 6



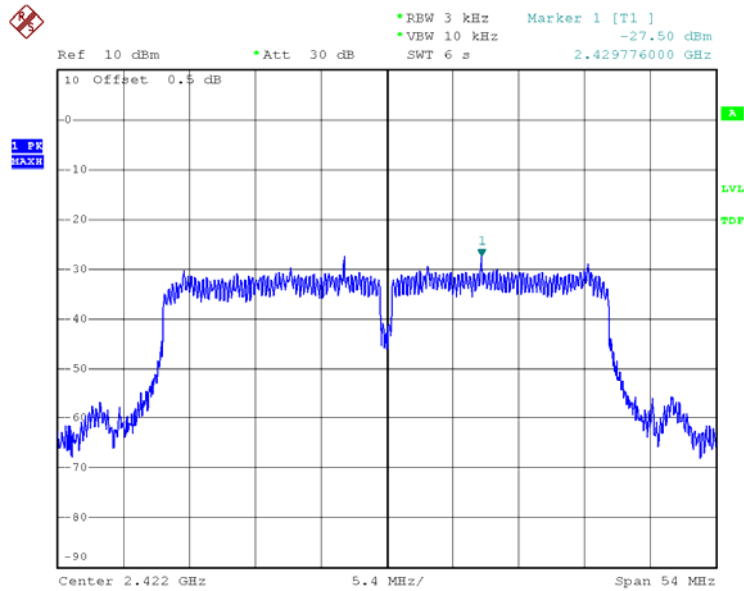
1
Date: 10.DEC.2013 14:37:23

Mode :TX 11n HT 20 channel 11



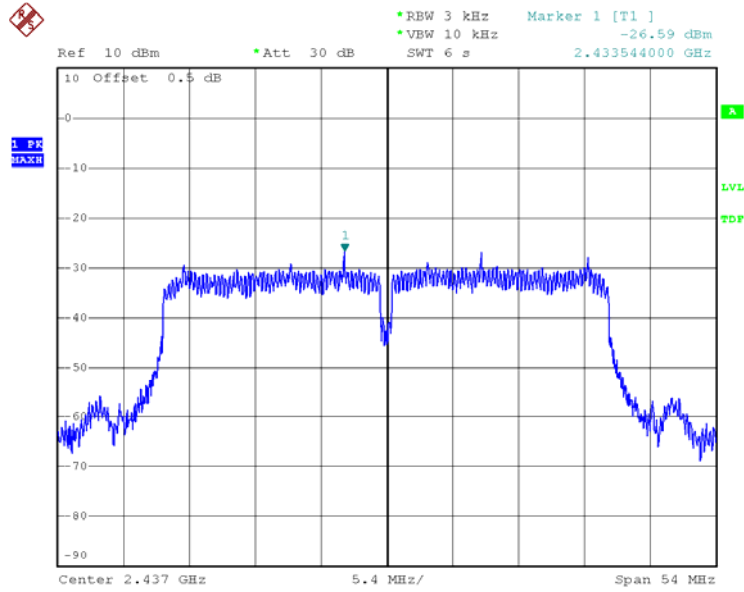
1
Date: 10.DEC.2013 14:59:49

Mode : TX 11n HT 40 channel 3



1
Date: 10.DEC.2013 15:02:37

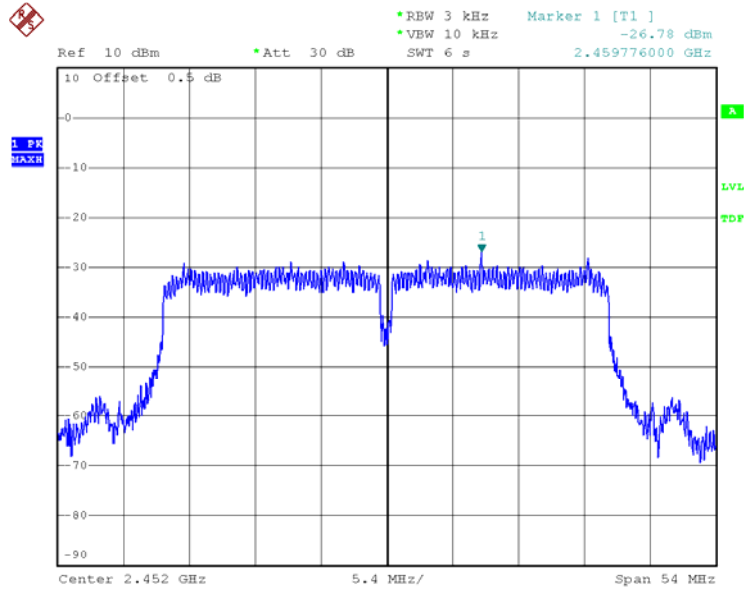
Mode : TX 11n HT 40 channel 7



1

Date: 10.DEC.2013 15:07:15

Mode : TX 11n HT 40 channel 9



1

Date: 10.DEC.2013 15:09:03

12 Emissions from out of band

Test Requirement:	FCC CFR47 Part 15 Section 15.247(d)
Test Method:	KDB558074 D01 v03r01 04/09/2013
Test Limit:	Emissions produced by the device outside the authorized frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the fundamental.
Test Mode:	Test in fixing operating frequency at lower, middle, upper channel.

12.1 Test Procedure:

KDB558074 D01 v03r01 04/09/2013 section 12.2

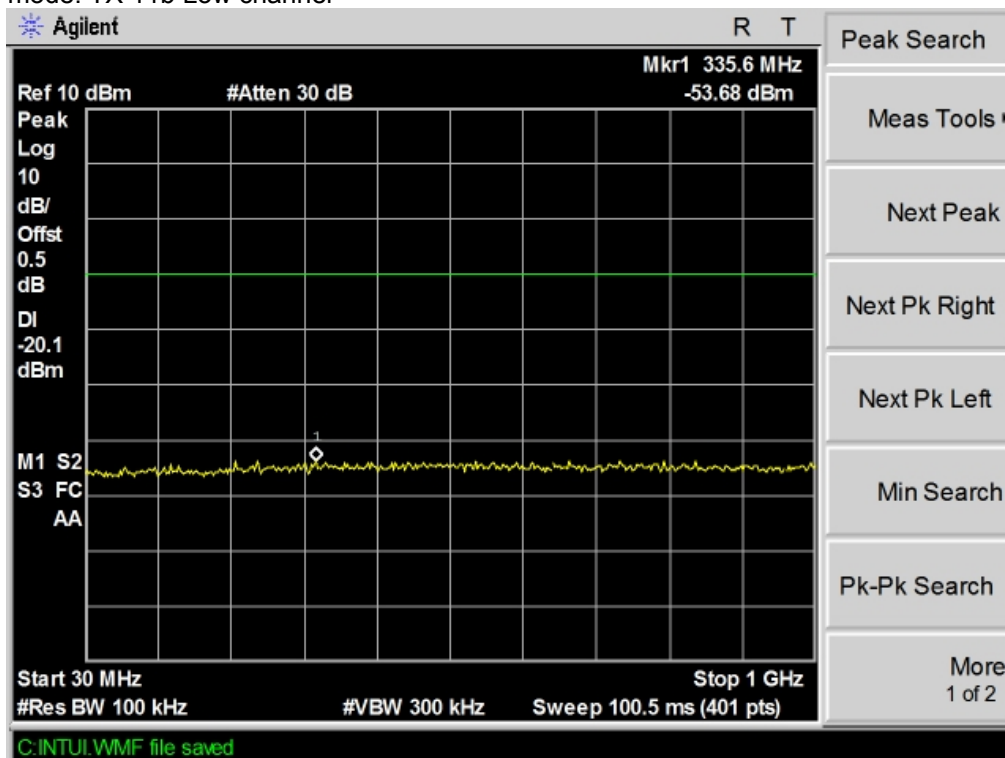
The maximum peak conducted output power procedure was used to demonstrate compliance to 15.247(b)(3) requirements, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz. This measurement was performed over a frequency range that spans from the lowest frequency generated in the device up to and including the tenth harmonic of the highest fundamental frequency.

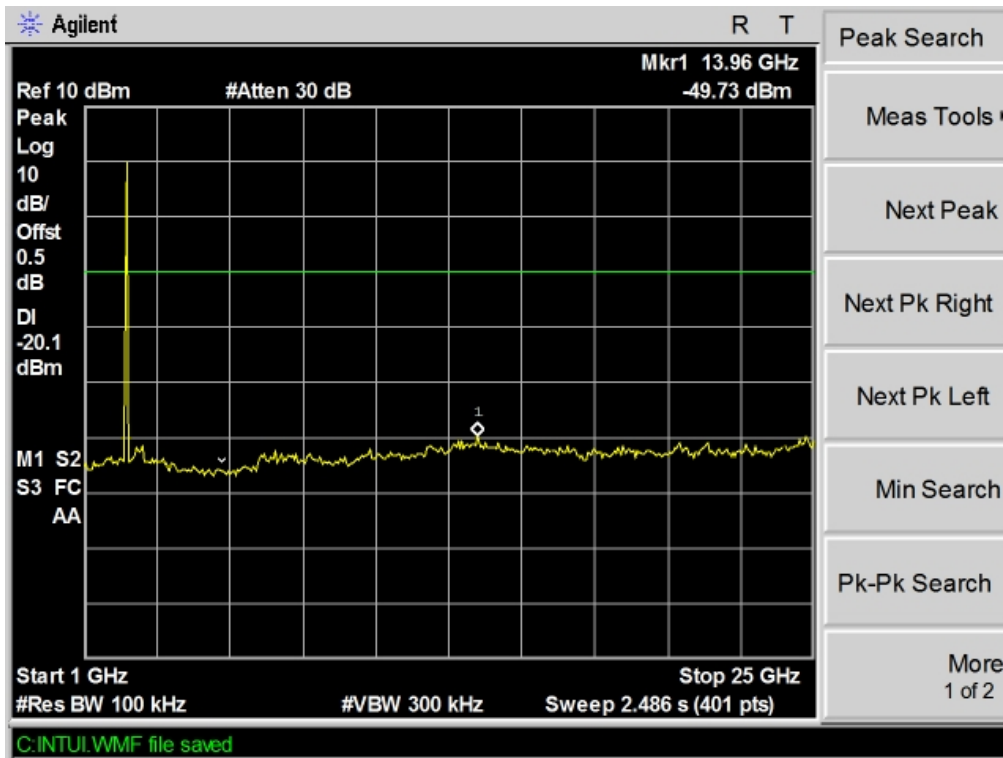
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set to span from the lowest frequency generated in the device up to and including the tenth harmonic of the highest fundamental frequency
3. For below 1GHz, Set RBW = 100kHz and VBW = 300kHz. Sweep = auto. For above 1GHz, Set RBW = 100kHz and VBW = 300kHz. Sweep = auto.
4. mark the worst point and record.

12.2 Test Result:

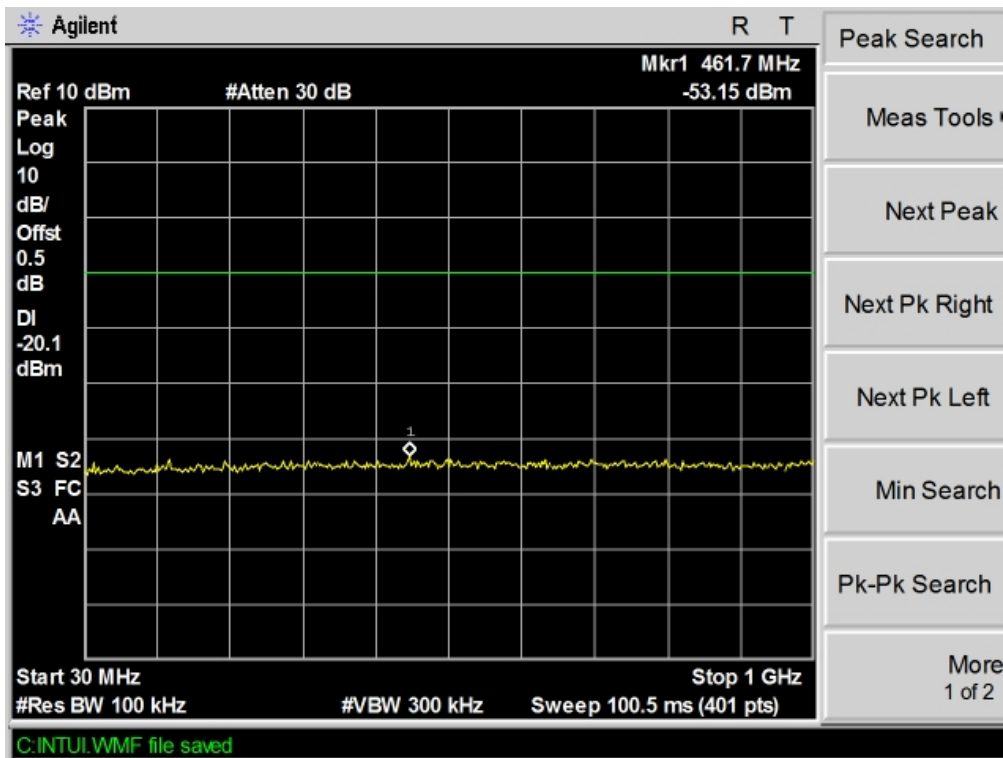
Remark: For emissions below 30MHz, no emission higher than background level, so the data does not show in the report.

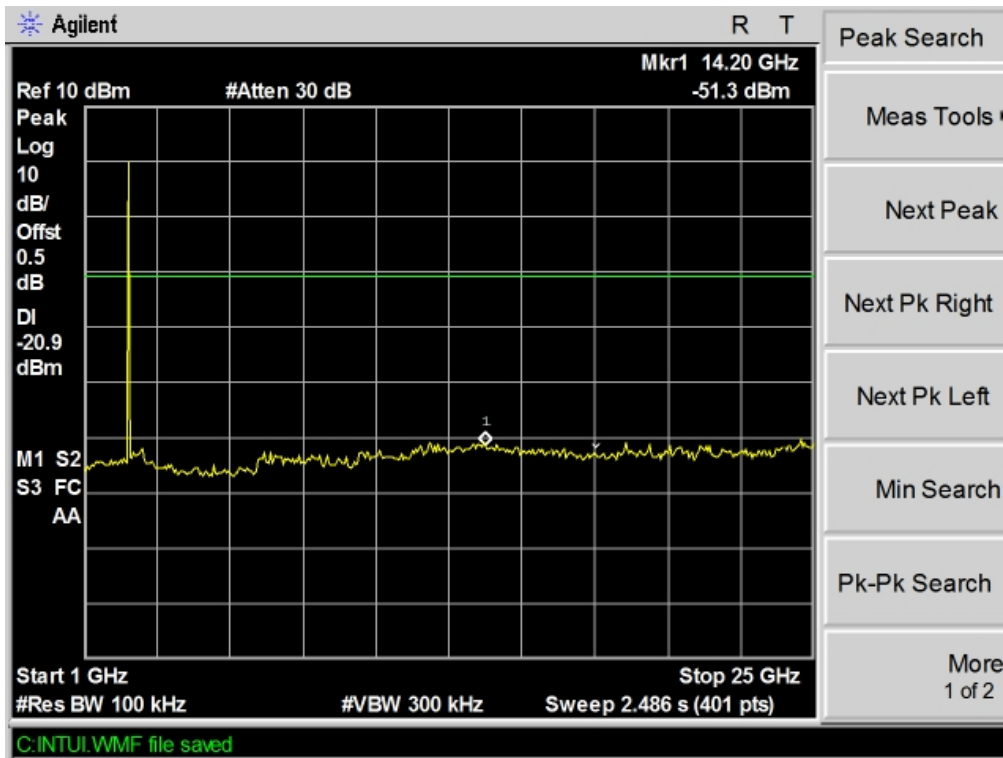
Test mode: TX 11b Low channel



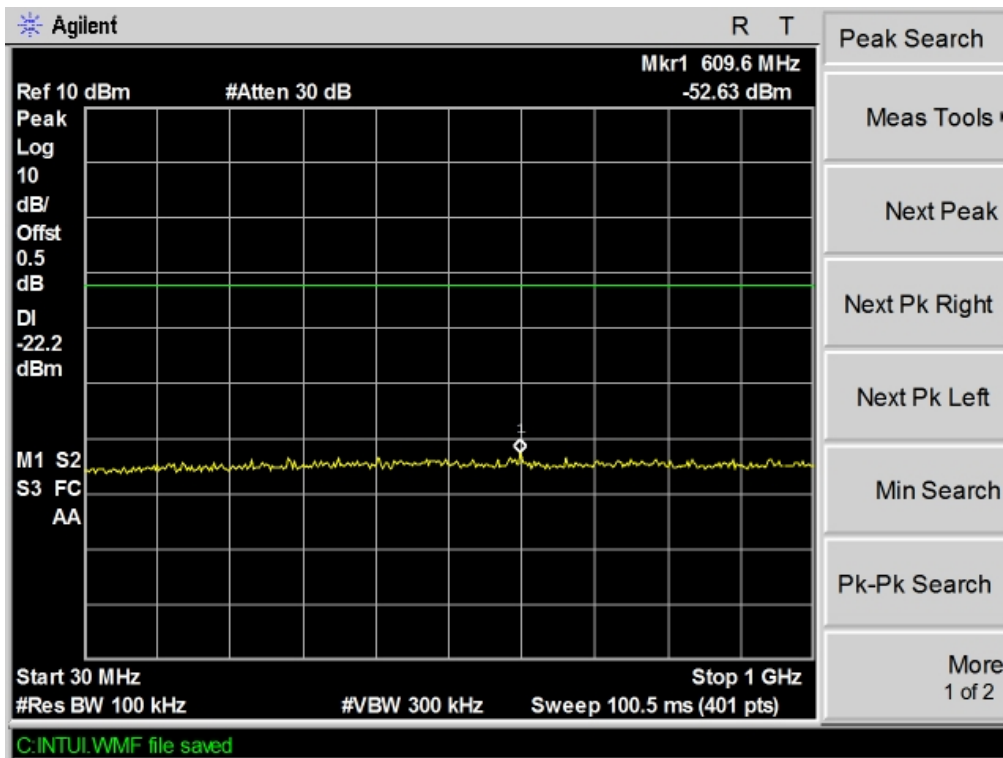


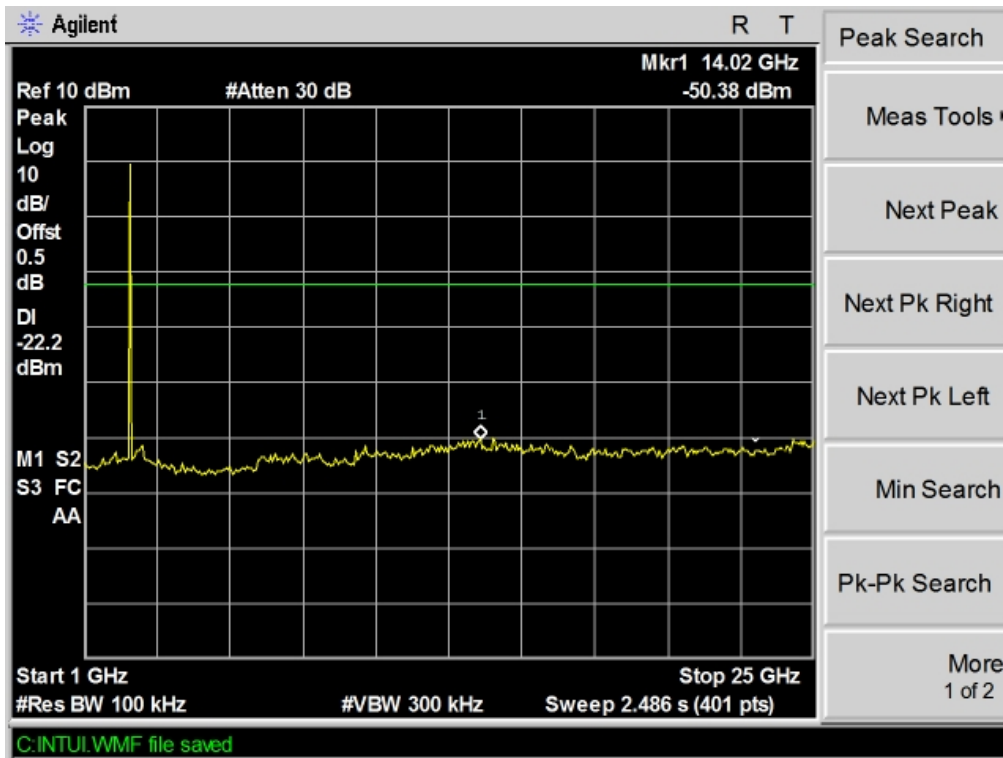
Test mode :TX 11b Middle channel



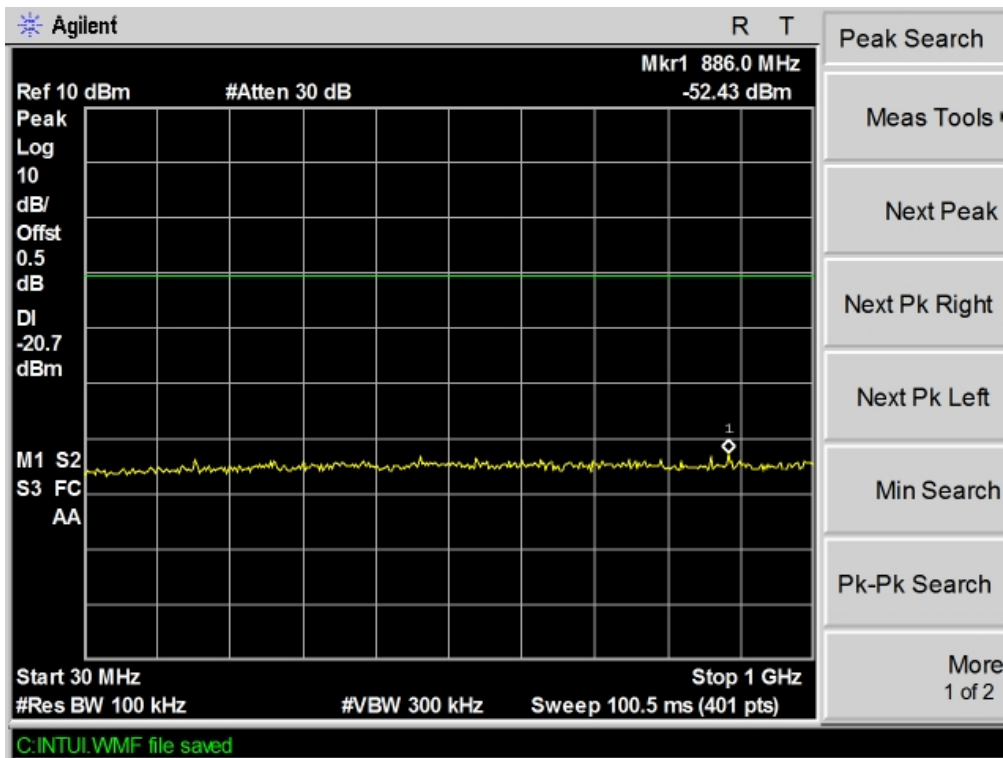


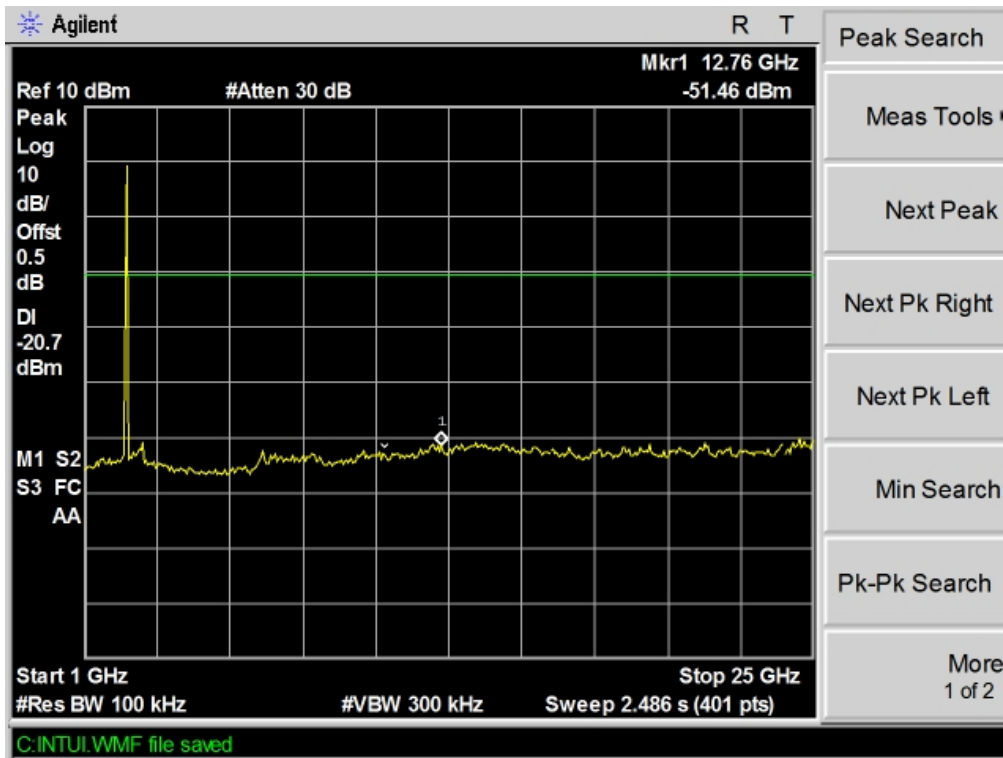
Test mode :TX 11b High channel



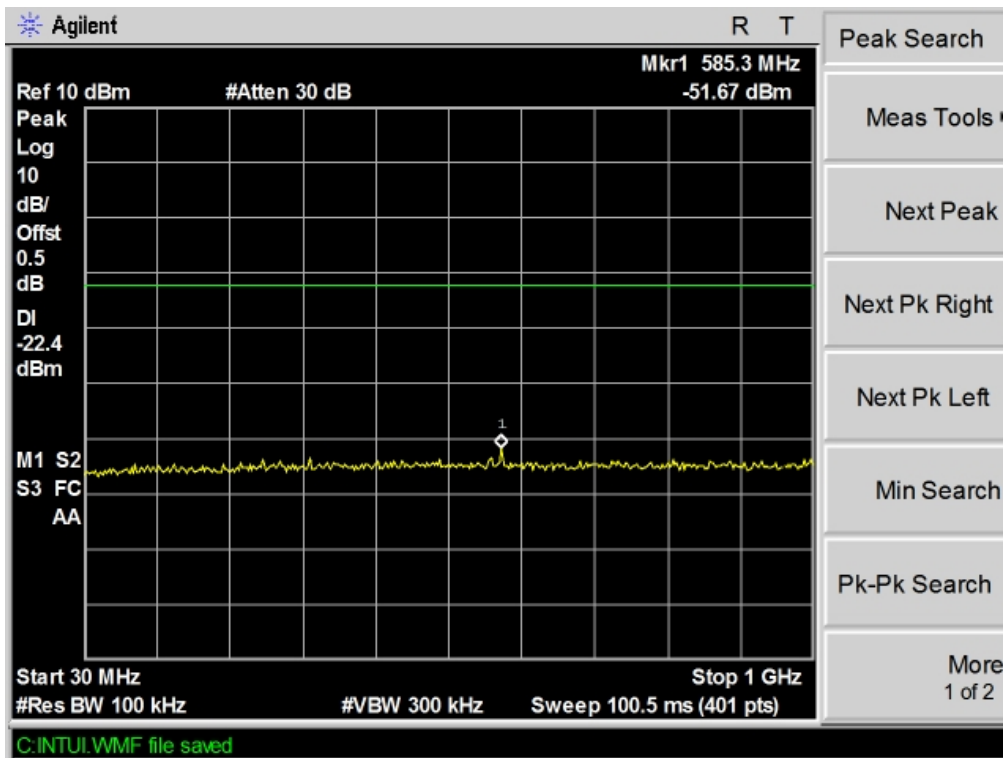


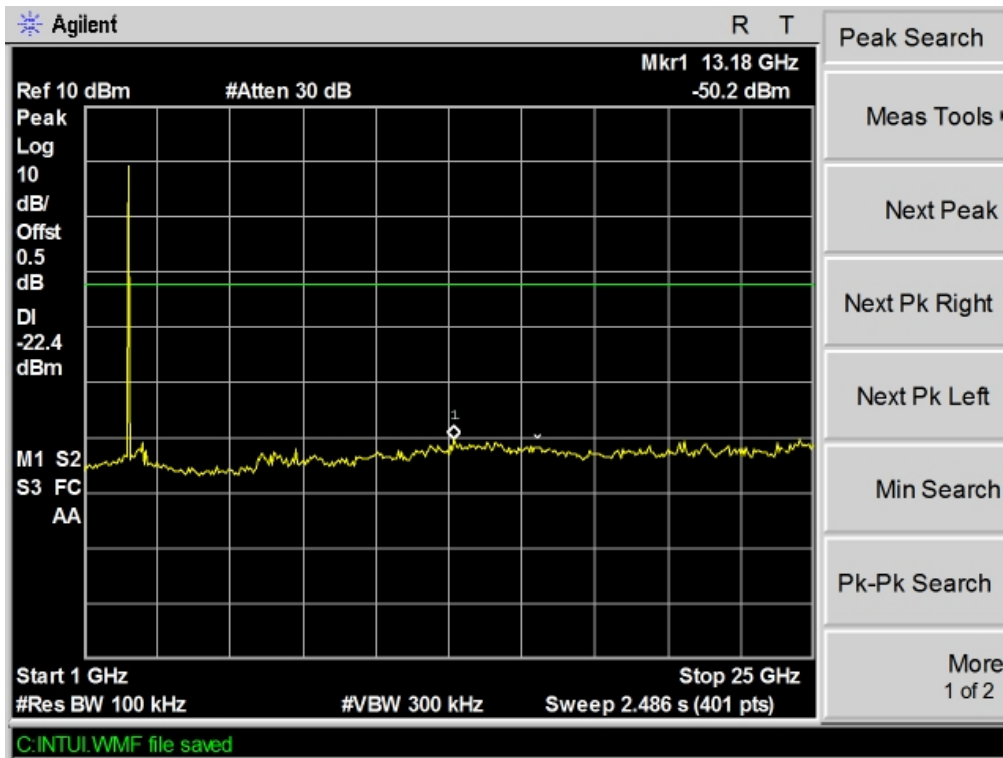
Test mode :TX 11g Low channel



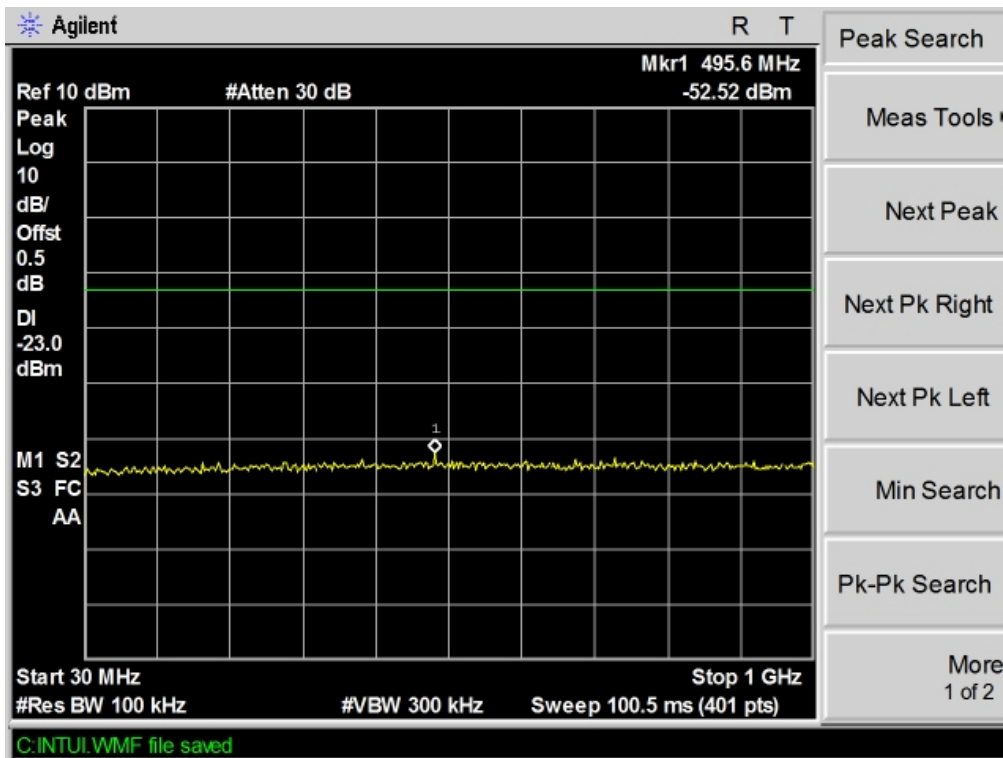


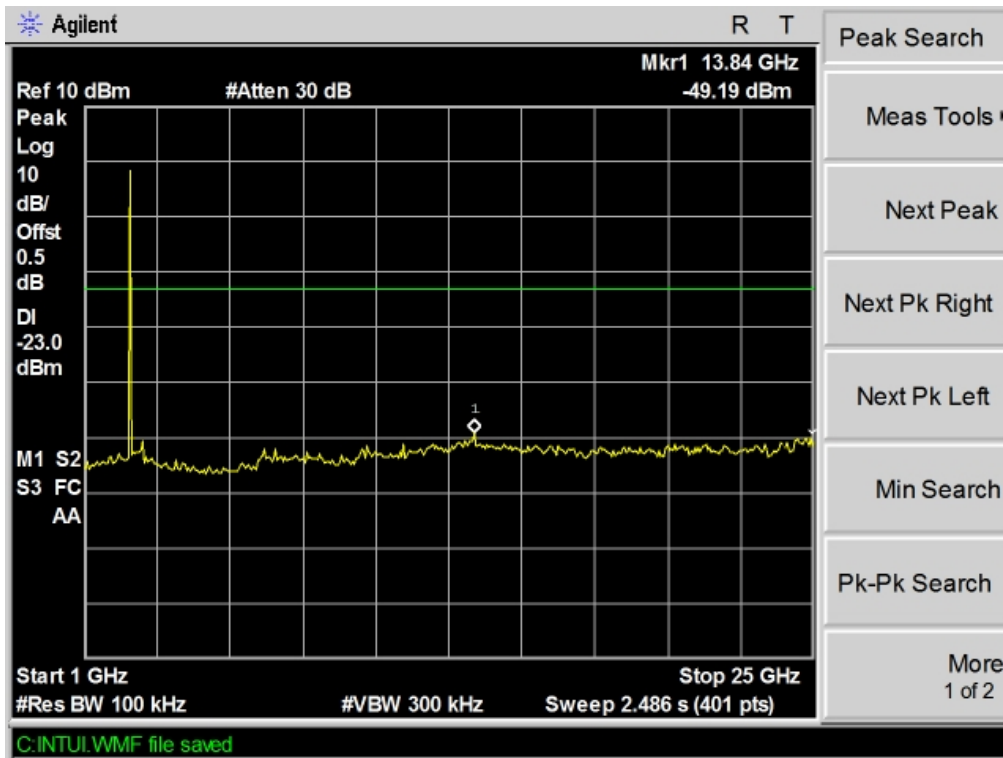
Test mode :TX 11g Middle channel



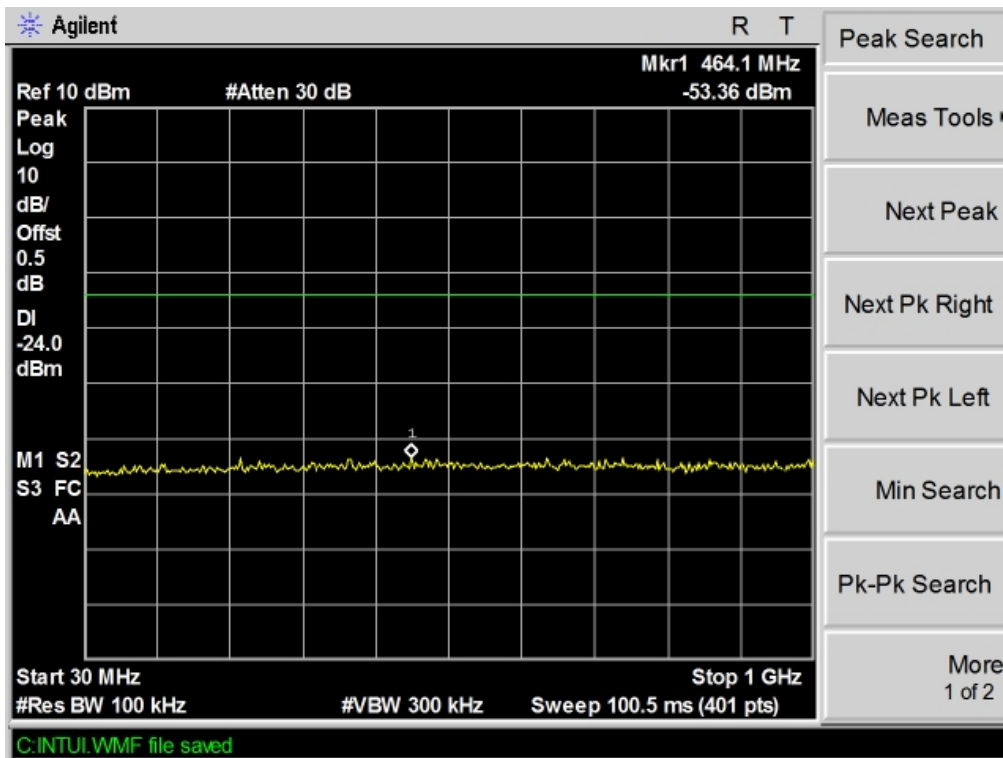


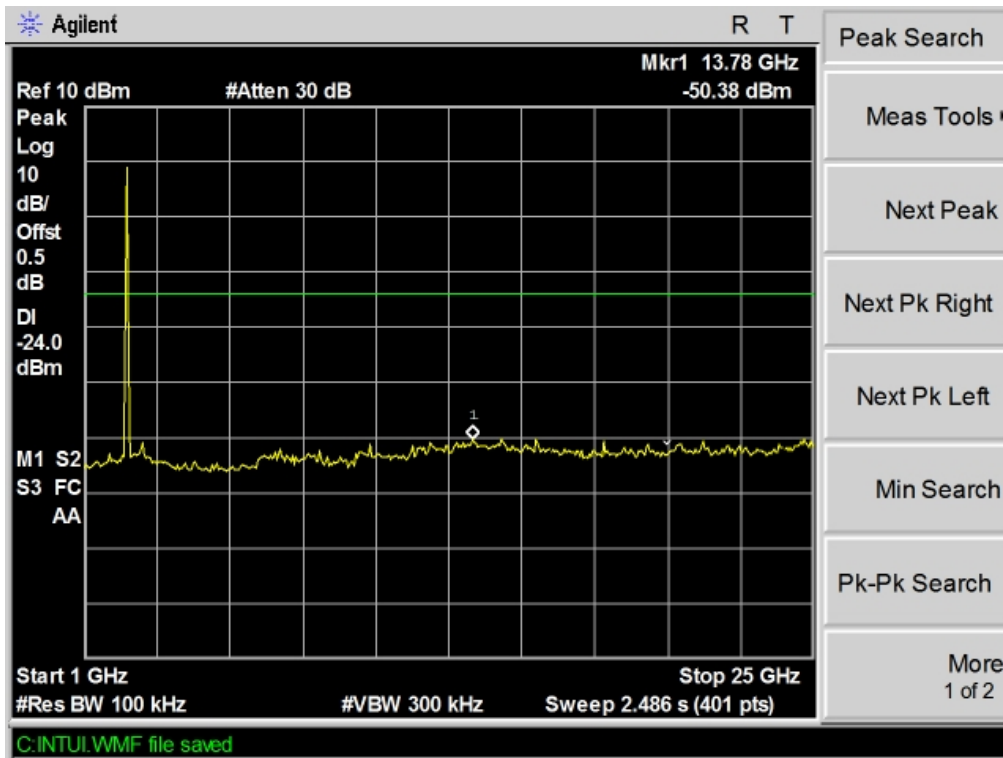
Test mode :TX 11g High channel



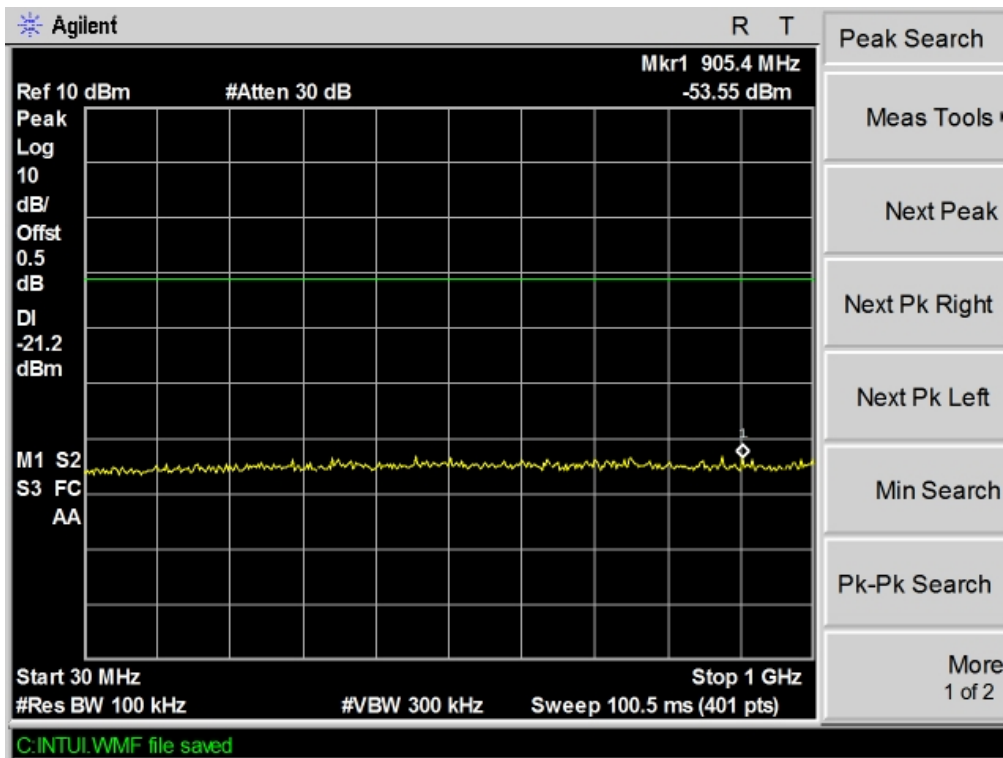


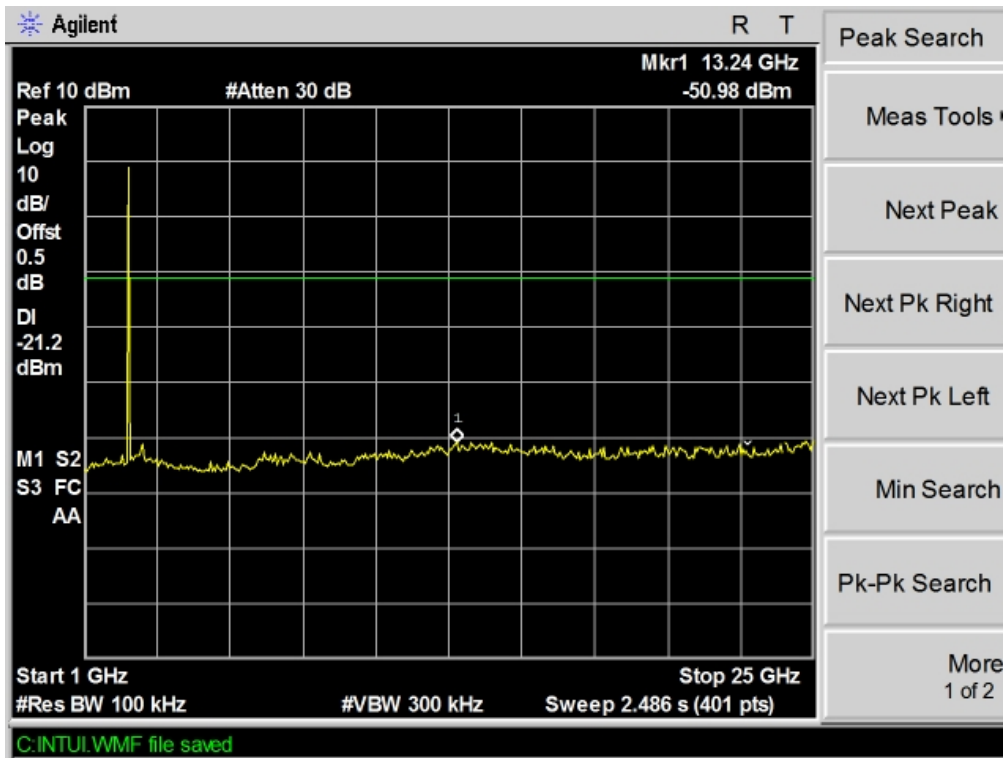
Test mode :TX 11n HT20 Low channel



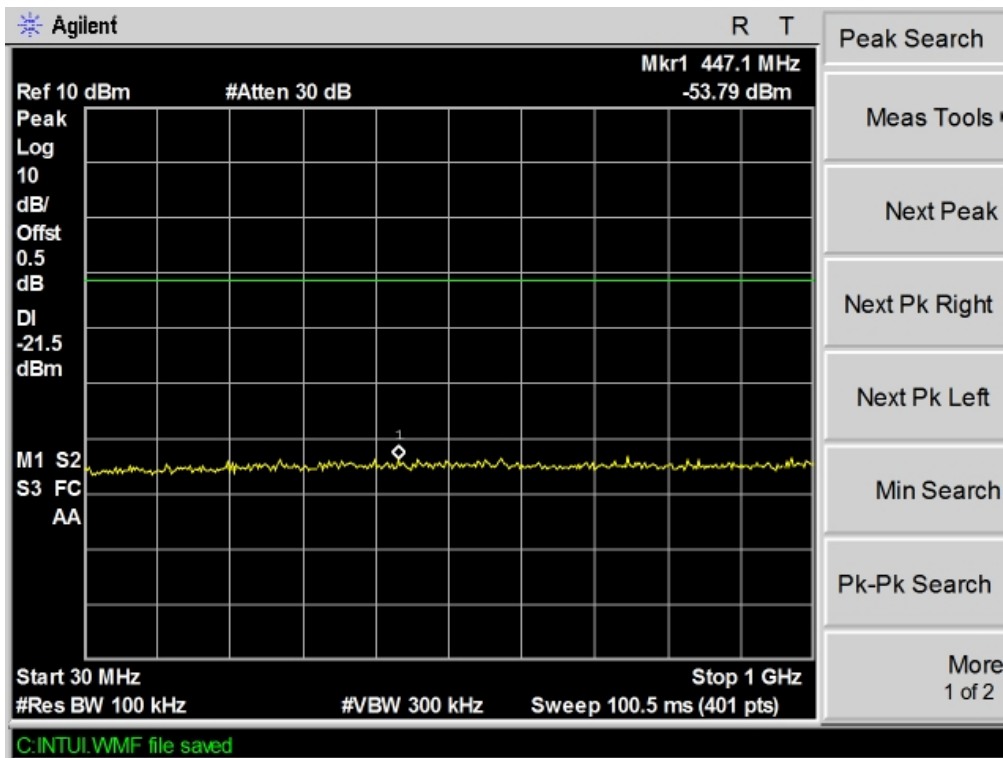


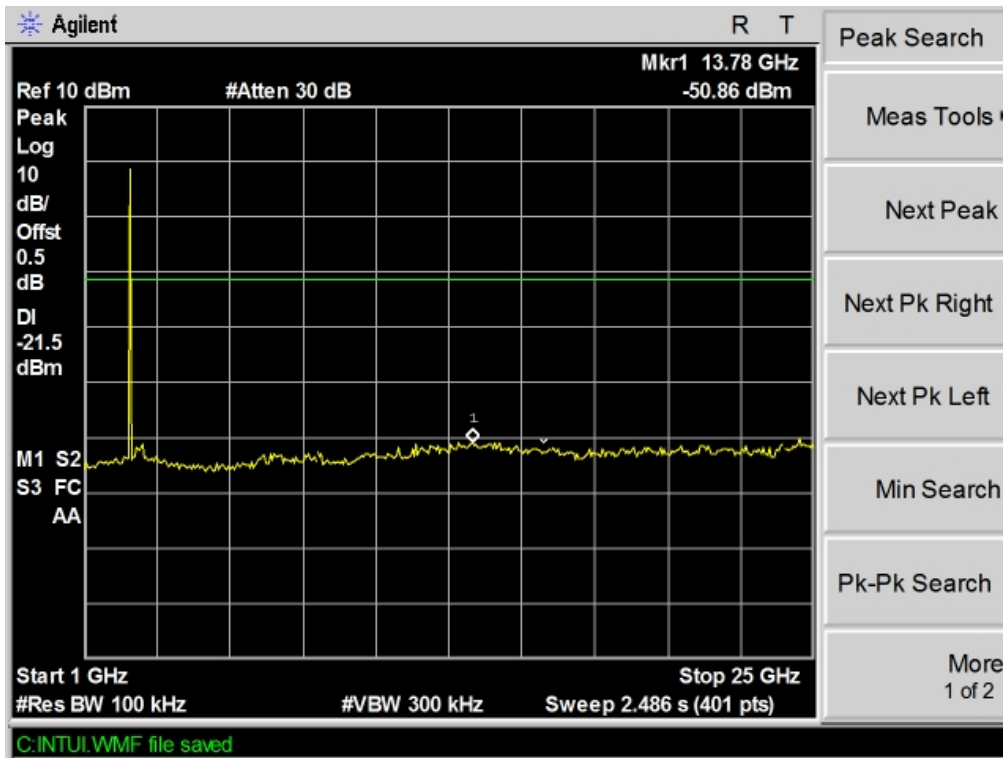
Test mode :TX 11n HT20 Middle channel



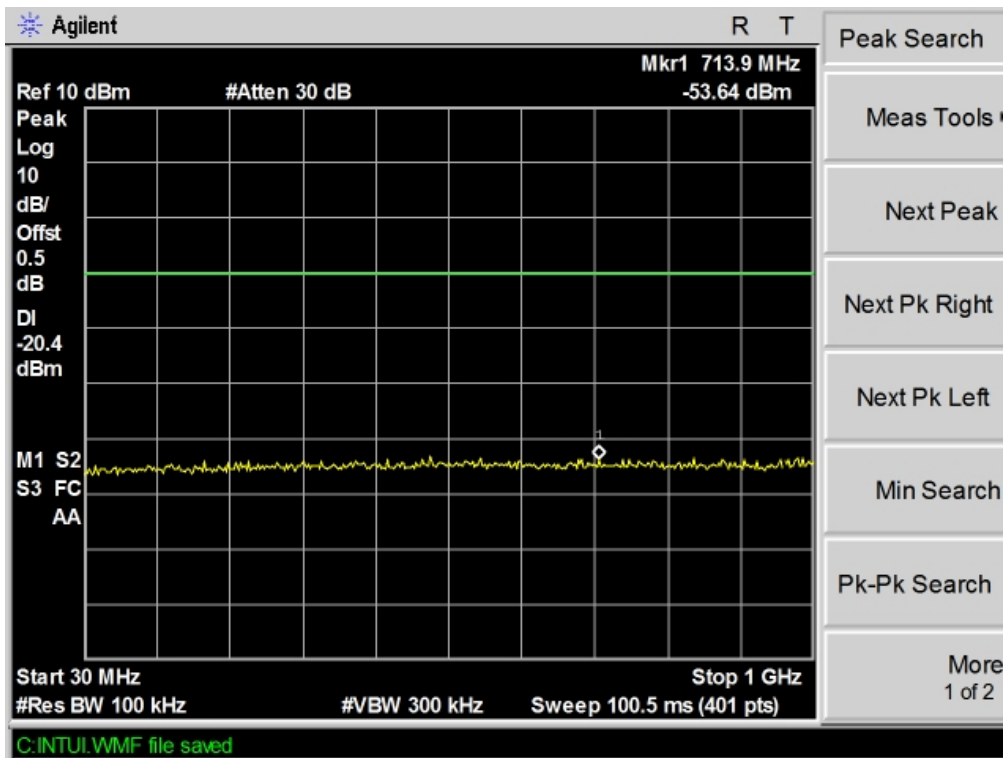


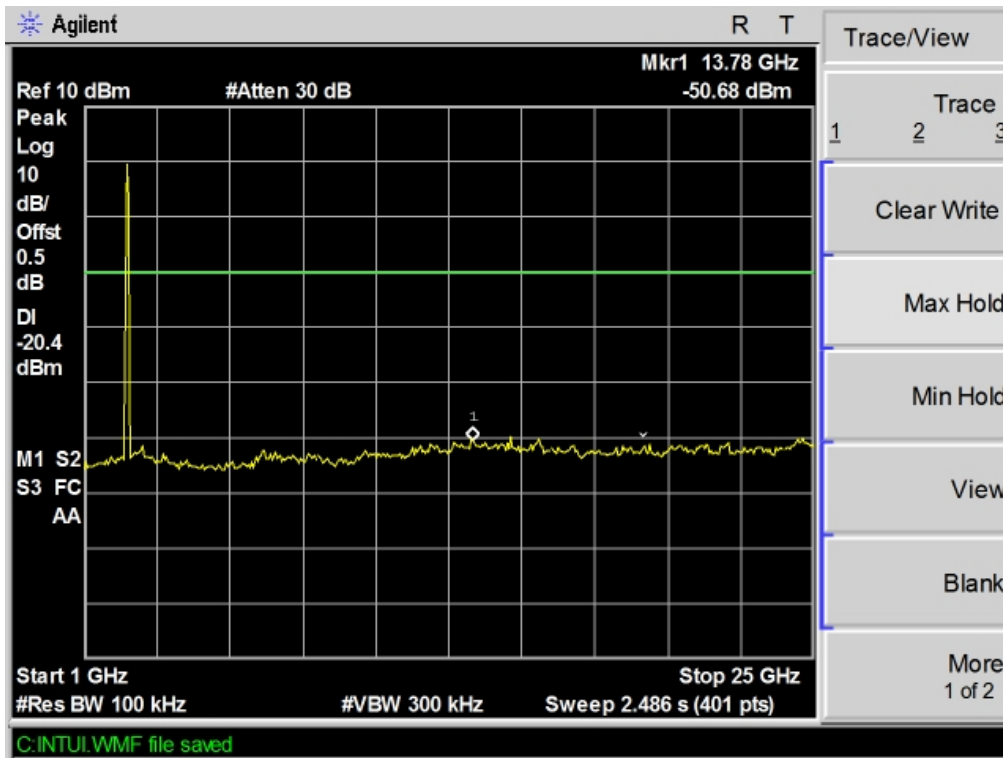
Test mode :TX 11n HT20 High channel



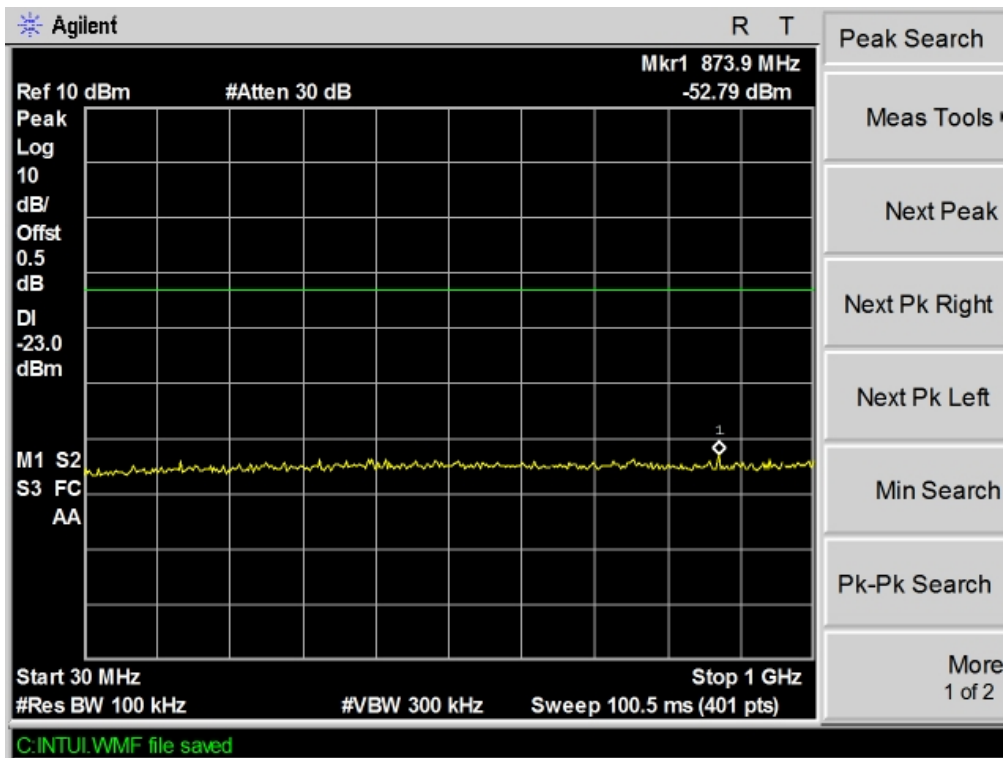


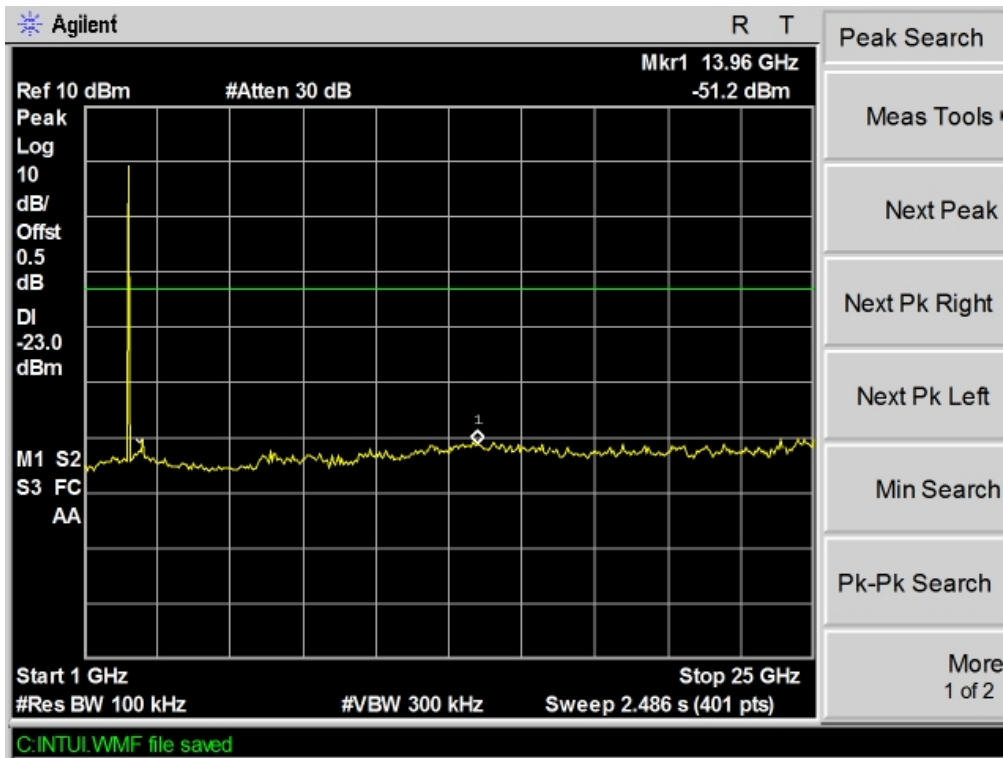
Test mode :TX 11n HT40 Low channel



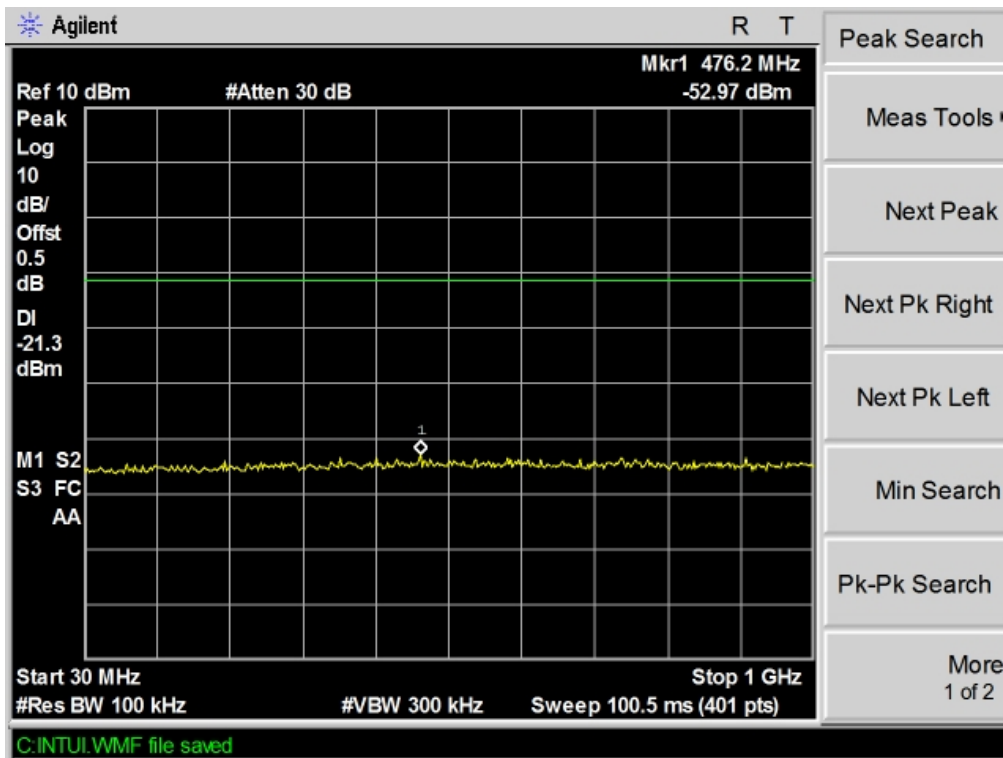


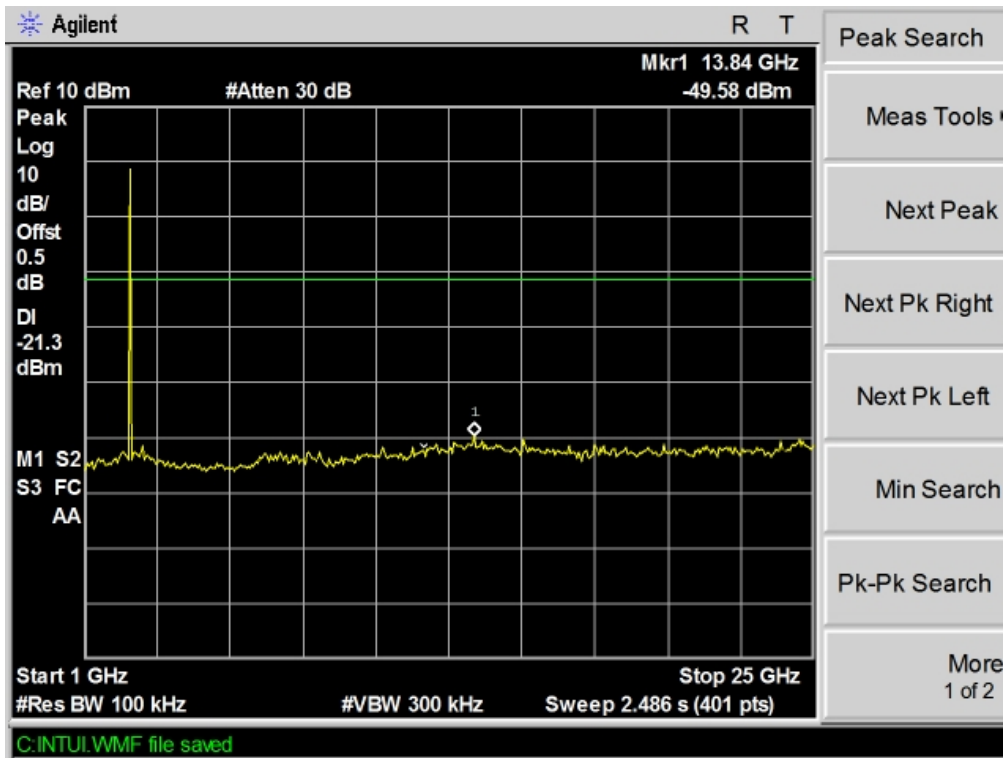
Test mode : TX 11n HT40 Middle channel





Test mode : TX 11n HT40 High channel





13 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has a internal permanent antenna, fulfill the requirement of this section.

14 RF Exposure

Test Requirement:	FCC Part 1.1307
Test Method	KDB 447498 D01 General RF Exposure Guidance v05
Test Mode:	The EUT work in test mode(Tx).

14.1 Requirements:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz
2. Power and distance are rounded to the nearest mW and mm before calculation
3. The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

14.2 Test Result

Conducted Peak power(dBm)	Conducted Peak power(mW)	Minimum test separation distance required for the exposure conditions (mm)	SAR Test Exclusion Thresholds(mW)
9.79	9.53	5	10

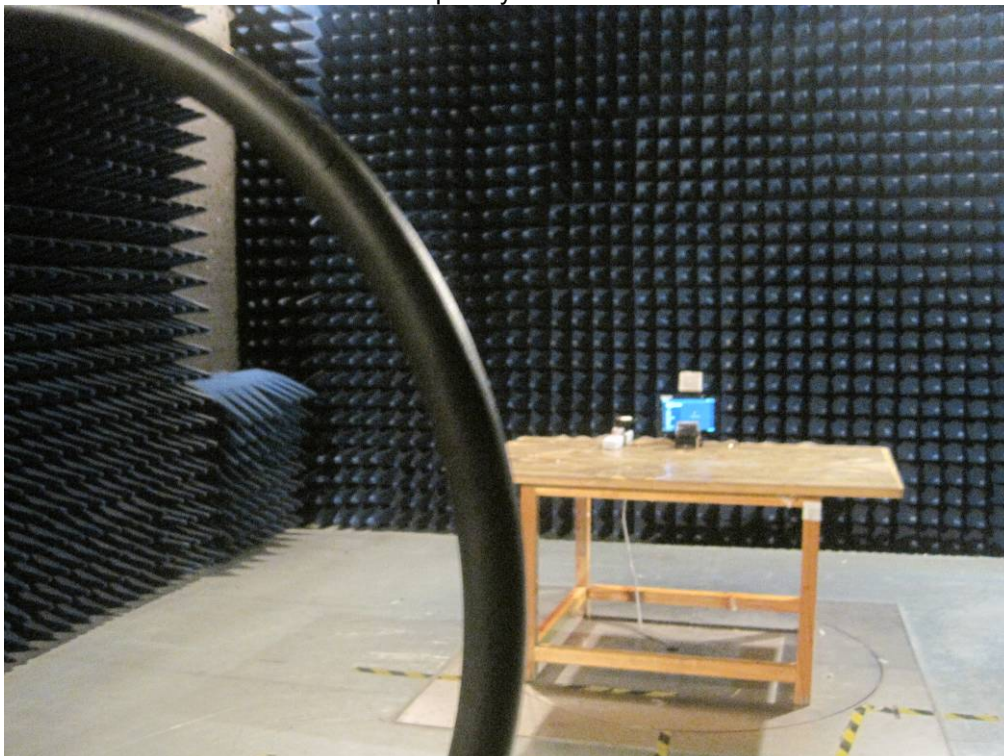
15 Photographs – Test Setup

15.1 Conducted Emission

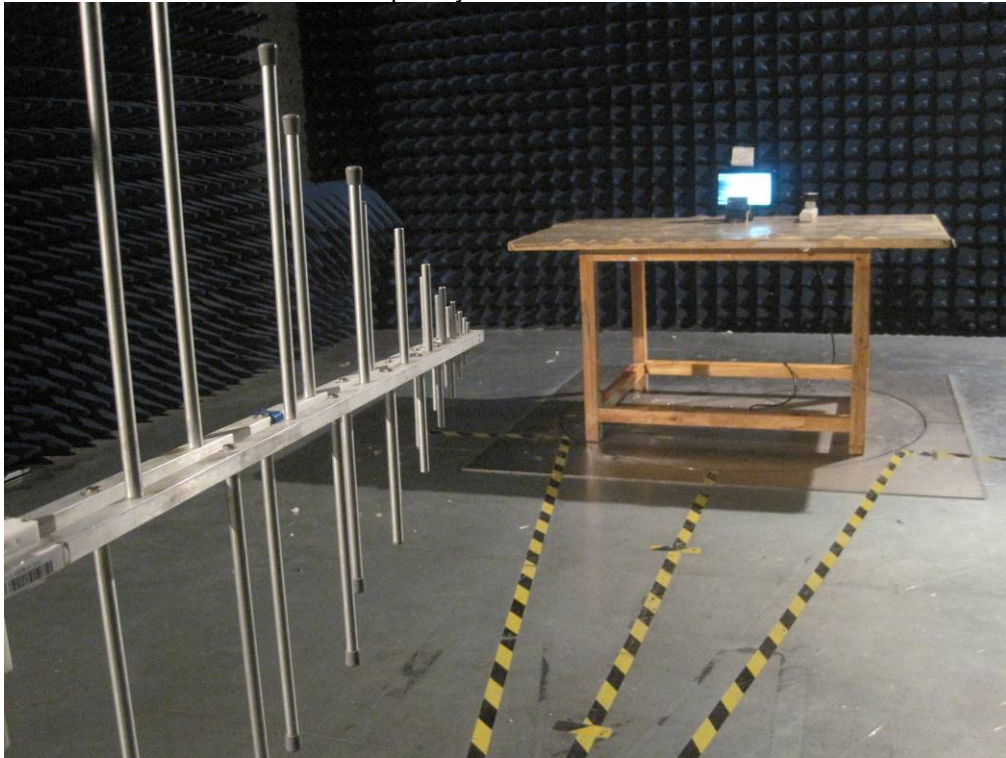


15.2 Radiated Emission

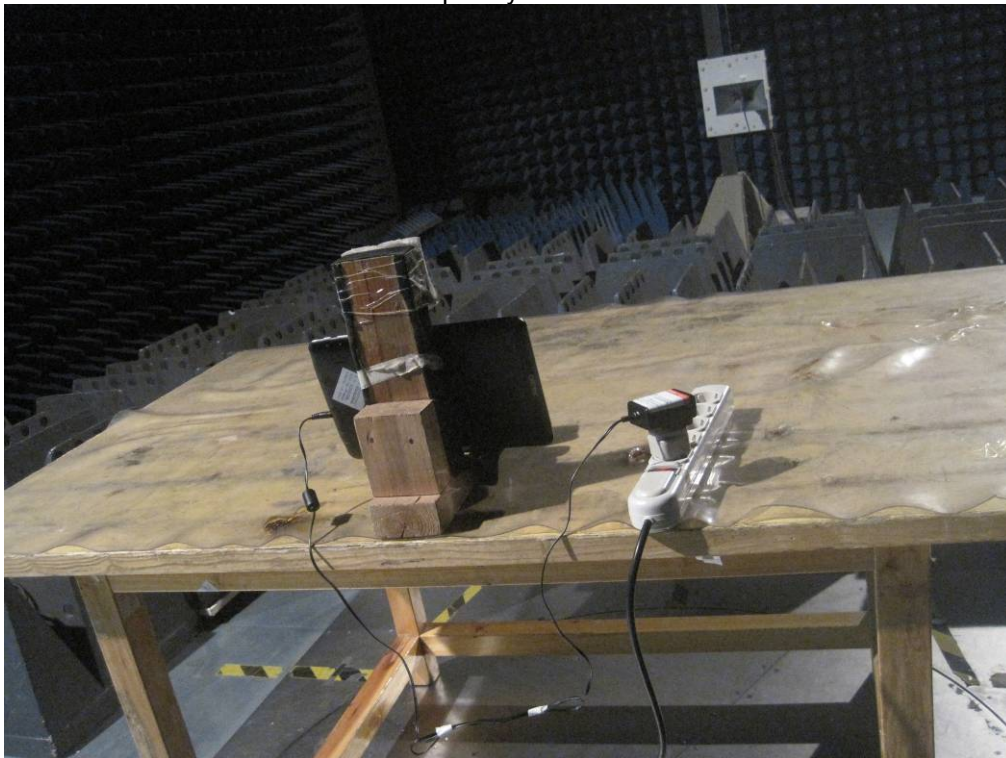
Test frequency below 30MHz



Test frequency from 30MHz to 1GHz



Test frequency above 1GHz



16 Photographs - Constructional Details

16.1 EUT –External View





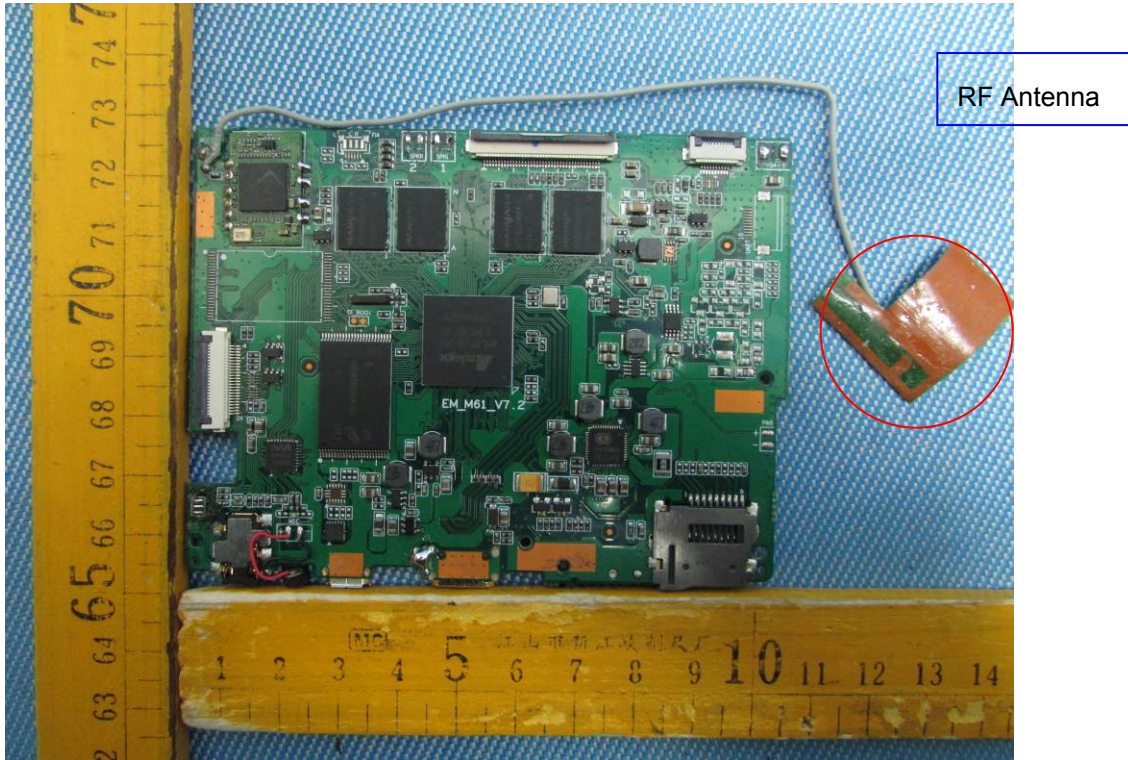


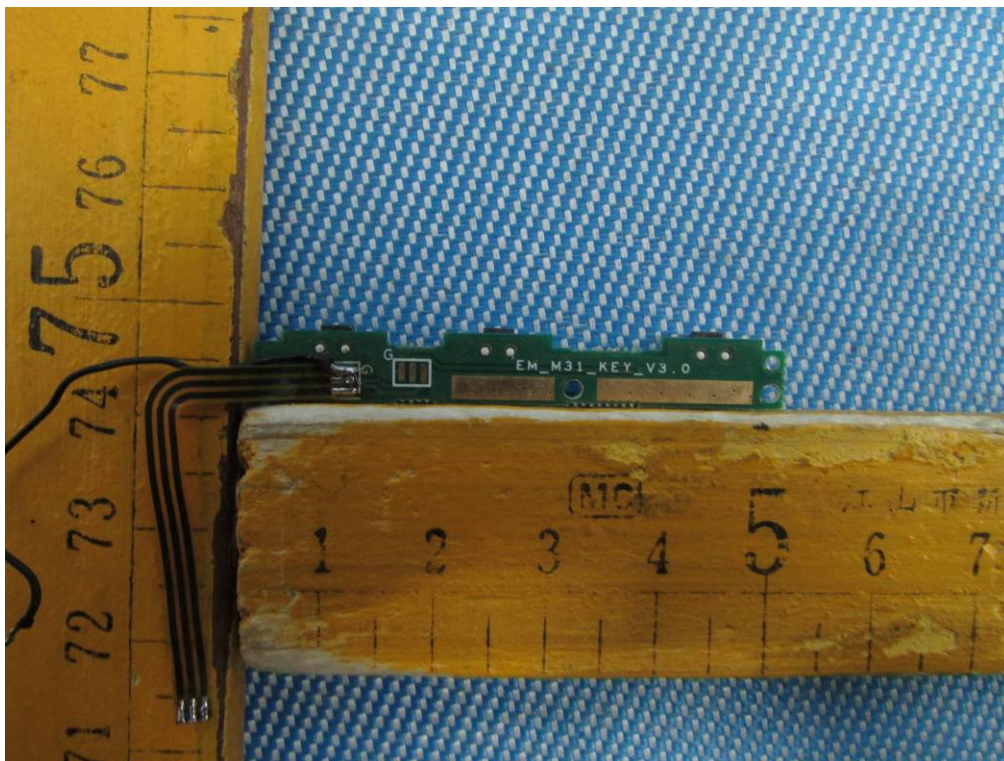
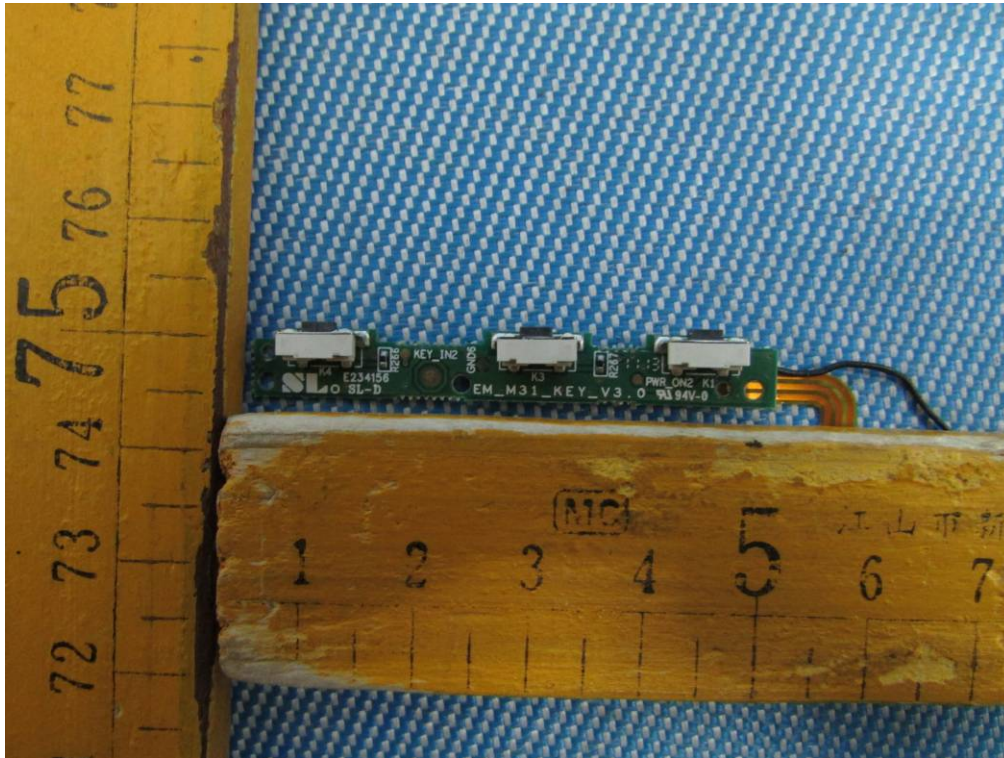


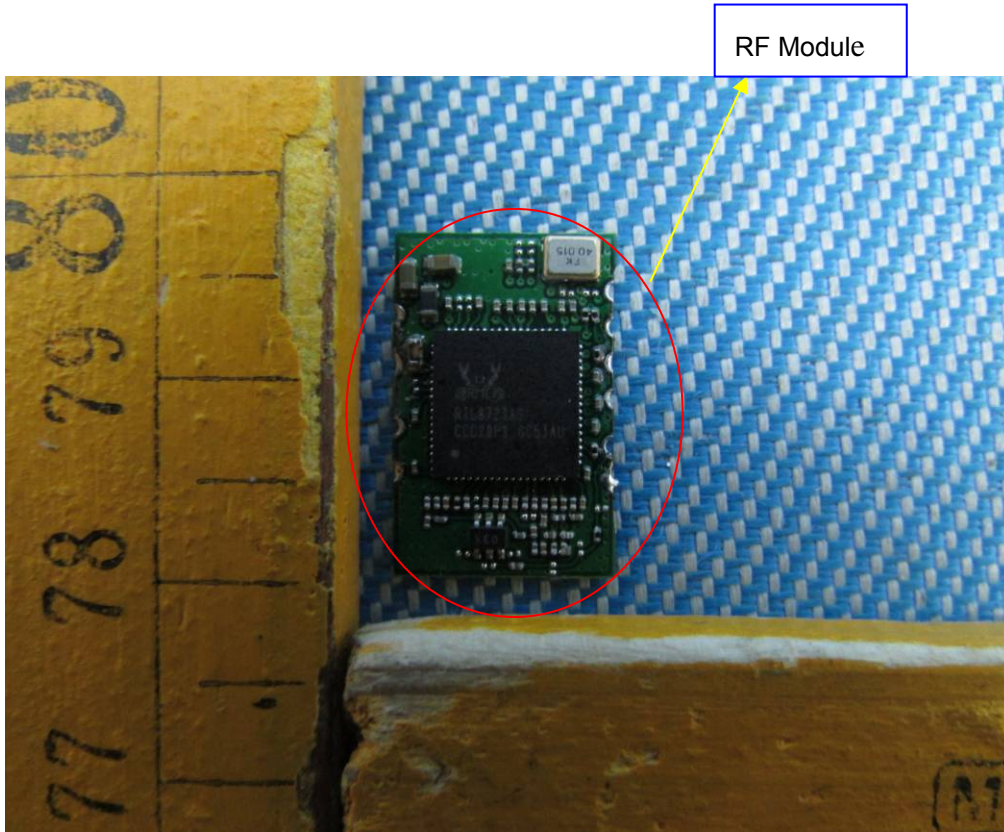


2.1 EUT – Internal View









=====**End of Test Report**=====