



Shenzhen Certification Technology Service Co., Ltd
2F, Building B, East Area of Nanchang Second Industrial
Zone, Gushu 2nd Road, Bao'an District, Shenzhen
518126, P.R. China.

TEST REPORT

FCC ID: OH8-TPC430

Applicant : GREENBOARD ELECTRONICS TECHNOLOGY (SHANGHAI) CO., LTD
Address : Room 102, No. 86, Lane 777, Lingling Road, Shanghai, CHINA

Equipment under Test (EUT):

Name : 4.3" Tablet PC
Model : TPC430

Standards : FCC PART 15, SUBPART C : 2011 (Section 15.247)

Report No. : STE120706872

Date of Test : June 10-17, 2012

Date of Issue : June 18, 2012

Test Result :	PASS *
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* In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

(Mark Zhu)
General Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

TABLE OF CONTENT

Description	Page
1 General Information -----	3
1.1 Description of Device (EUT) -----	3
1.2 Description of Test Facility -----	4
2 EMC Equipment List -----	5
3 Test Procedure -----	6
4 Summary of Measurement -----	7
4.1 Summary of test result -----	7
4.2 Test connection -----	7
4.3 Assistant equipment used for test -----	8
4.4 Test mode -----	8
5 Spurious Emission -----	9
5.1 Conducted Spurious Emission -----	9
5.2 Radiation Emission -----	22
6 POWER LINE CONDUCTED EMISSION -----	41
6.1 Conducted Emission Limits(15.207) -----	41
6.2 Test Setup -----	41
6.3 Test Procedure -----	42
6.4 Test Results -----	42
7 Peak Power -----	47
7.1 Test limit -----	47
7.2 Test Procedure -----	47
7.3 Test Setup -----	47
7.4 Test Results -----	47
8 PEAK POWER SPECTRAL DENSITY -----	55
8.1 Test limit -----	55
8.2 Method of measurement -----	55
8.3 Test Setup -----	55
8.4 Test Results -----	56
9 6dB Bandwidth -----	63
9.1 Test limit -----	63
9.2 Method of measurement -----	63
9.3 Test Setup -----	63
9.4 Test Results -----	63
10 Band Edge Check -----	71
10.1 Test limit -----	71
10.2 Test Procedure -----	71
10.3 Test Setup -----	71
10.4 Test Result -----	71
11 Antenna Requirement -----	88
11.1 Standard Requirement -----	88
11.2 Antenna Connected Construction -----	88
11.3 Result -----	88
12 Photographs of Test Setup -----	89
13 Photographs of EUT -----	94

1 General Information

1.1 Description of Device (EUT)

Trade Name	: MobiNote
EUT	: 4.3" Tablet PC
Model No.	: TPC430
Type of Antenna	: Integral Antenna
Antenna Specification	: 0.82dBi
Operation Frequency	: 2412~2462MHz for 802.11b.g.n/HT20 2422-2452MHz for 802.11n/HT40
Channel number	: 11 for 802.11b.g.n/HT20, 7 for 802.11n/HT40 IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)
Modulation type	: IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n :OFDM(64QAM, 16QAM, QPSK, BPSK)
Power Supply	: DC 5V from adapter or DC 3.7V from battery Manufacturer: GREENBOARD ELECTRONICS TECHNOLOGY
Adapter	: (SHANGHAI) CO., LTD Model: FR152A-050200-US
Rated PF output Power	: 12.97dBm for 802.11b.g.n/HT20 11.46dBm MHz for 802.11n/HT40
Applicant	: GREENBOARD ELECTRONICS TECHNOLOGY (SHANGHAI) CO., LTD
Address	: Room 102, No. 86, Lane 777, Lingling Road, Shanghai, CHINA
Manufacturer	: GREENBOARD ELECTRONICS TECHNOLOGY (SHANGHAI) CO., LTD
Address	: Room 102, No. 86, Lane 777, Lingling Road, Shanghai, CHINA

1.2 Description of Test Facility

Shenzhen Certification Technology Service Co.,Ltd.
2F, Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
FCC Registered No.:197647

2 EMC Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	04/06/2012	1Year
Spectrum analyzer	Agilent	E4443A	MY46185649	04/06/2012	1Year
Receiver	R&S	ESCI	100492	04/06/2012	1Year
Receiver	R&S	ESCI	101202	04/06/2012	1Year
Bilog Antenna	Sunol	JB3	A121206	04/06/2012	1Year
Horn Antenna	EMCO	3115	640201028-06	04/06/2012	1Year
Power Meter	Anritsu	ML2487A	6K00001491	02/23/2012	1Year
ETS Horn Antenna	ETS	3160	SEL0076	12/08/2011	1Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	04/06/2012	1Year
Cable	Resenberger	N/A	No.1	04/06/2012	1Year
Cable	SCHWARZBECK	N/A	No.2	04/06/2012	1Year
Cable	SCHWARZBECK	N/A	No.3	04/06/2012	1Year
Pre-amplifier	R&S	AFS42-00101 800-25-S-42	SEL0081	04/06/2012	1Year
Pre-amplifier	R&S	AFS33-18002650 -30-8P-44	SEL0080	04/06/2012	1Year

3 Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a 50 μ H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25°C with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3MHz above 1 GHz. The ambient temperature of the EUT was 25°C with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF + CABLE = FS

33.20 dBuV + 10.36 dB + 0.9 dB= 44.46 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes. The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.

4 Summary of Measurement

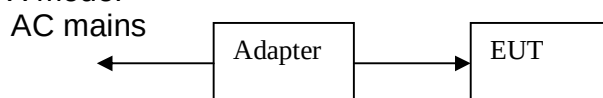
4.1 Summary of test result

Test Item	Test Requirement	Standards Paragraph	Result
Spurious Emission	FCC PART 15 : 2011	Section 15.247&15.209	Compliance
Conduction Emission	FCC PART 15: 2011	Section 15.207	Compliance
6dB Bandwidth Test	FCC PART 15:2011	Section 15.247	Compliance
Peak Power	FCC PART 15:2011	Section 15.247	Compliance
Power Density	FCC PART 15:2011	Section 15.247	Compliance
Band Edge	FCC PART 15:2011	Section 15.247	Compliance
Antenna Requirement	FCC PART 15 : 2011	Section 15.203	Compliance

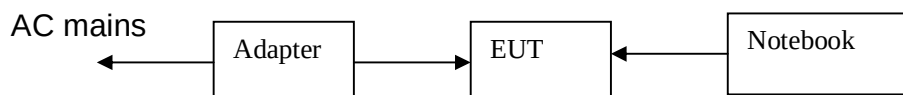
Note: The EUT has been tested as an independent unit. And Continual Transmitting in maximum power (The adapter be used during Test)

4.2 Test connection

For TX mode:



For transmitter data mode:



4.3 Assistant equipment used for test

Description	:	Notebook
Manufacturer	:	acer
Model No.	:	4552G

4.4 Test mode

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	11	Low :CH1	2412
	11	Middle: CH6	2437
	11	High: CH11	2462
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH6	2437
	6	High: CH11	2462
IEEE 802.11n/HT20	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11n/HT40	13.5	Low :CH3	2422
	13.5	Middle:CH6	2437
	13.5	High:CH9	2452
Note: According exploratory test, EUT will have maximum output power in those data rate. so those data rate were used for all test.			

5 Spurious Emission

5.1 Conducted Spurious Emission

5.1.1 Test limit

Please refer section 15.247.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.1.2 Method of measurement

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer.

RBW=100 KHz, VBW=300 KHz below 1G,

RBW=1MHz, VBW=3MHz above 1G,

Measurements are made over the 30MHz to 25GHz range with the transmitter set to the lowest, middle, and highest channels.

5.1.3 Test Setup



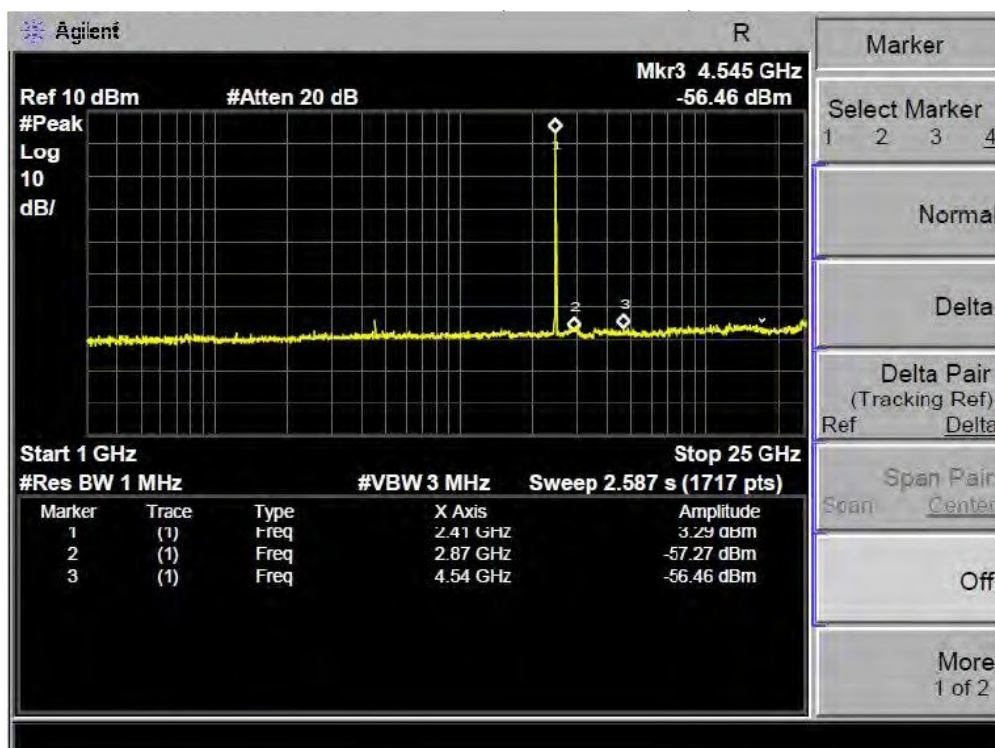
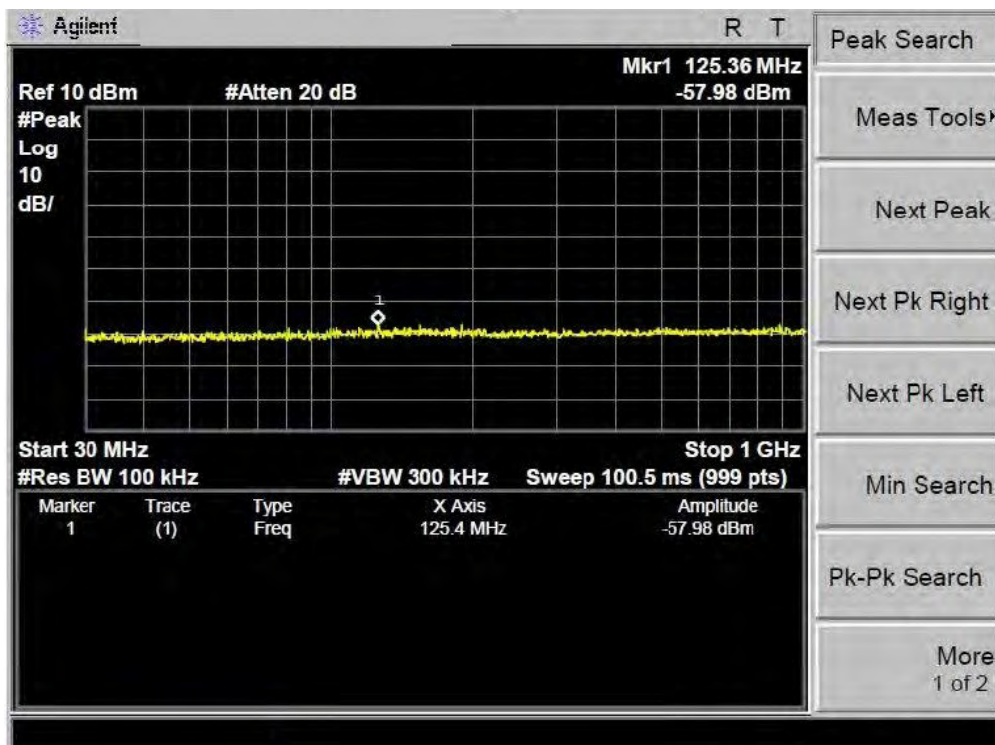
5.1.4 Test Results

PASS.

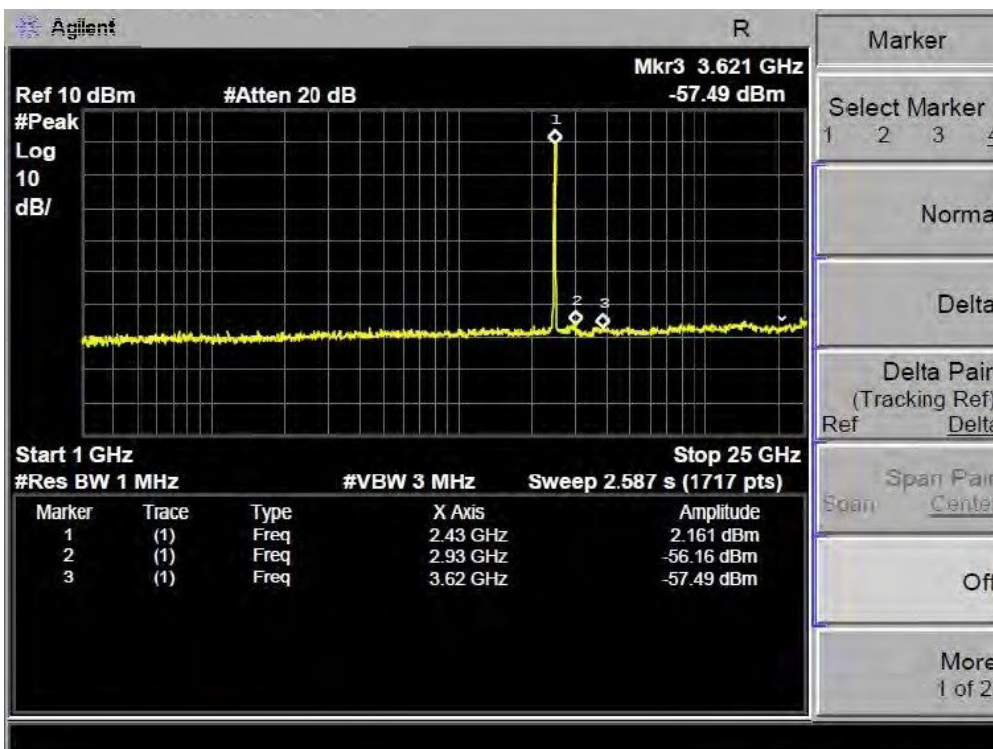
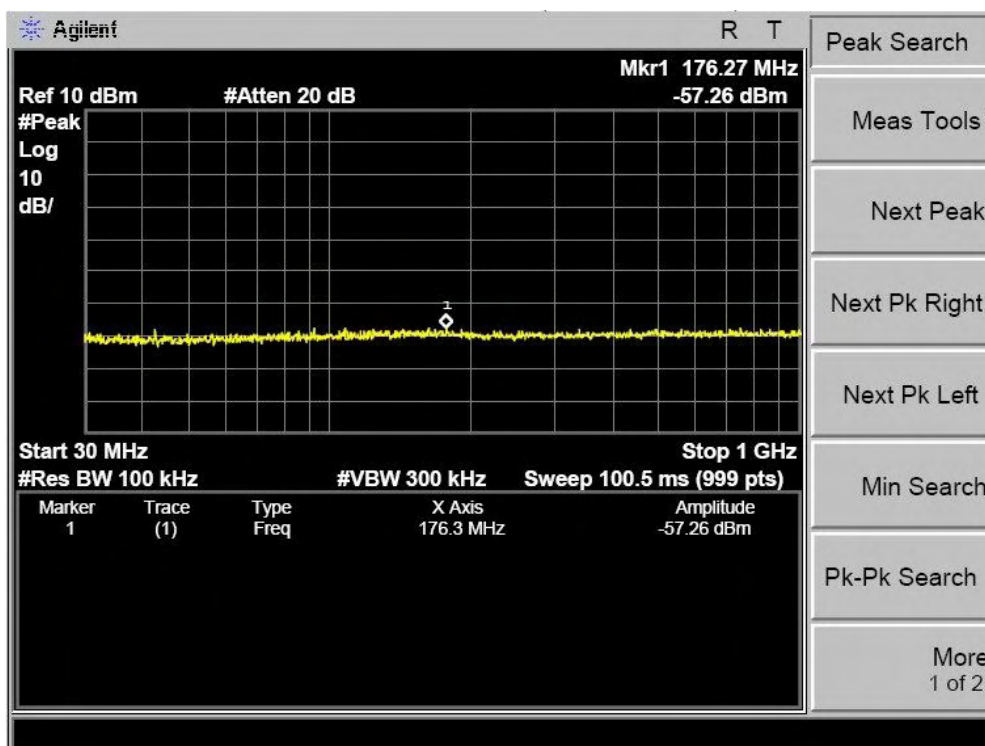
Detailed information please see the following page.

IEEE 802.11b:

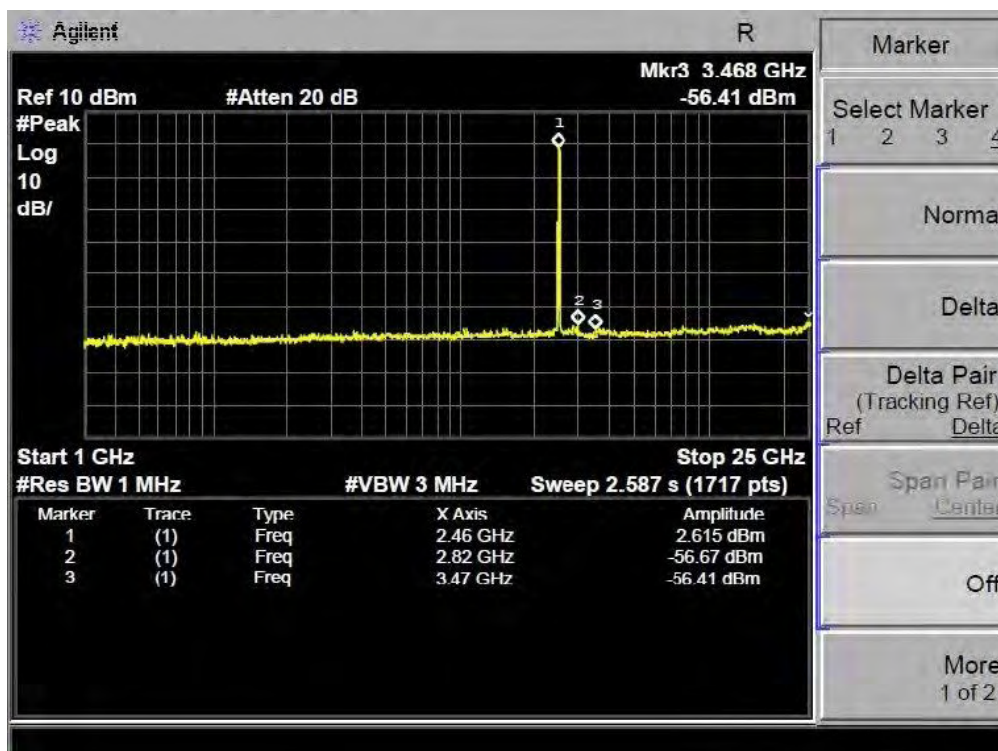
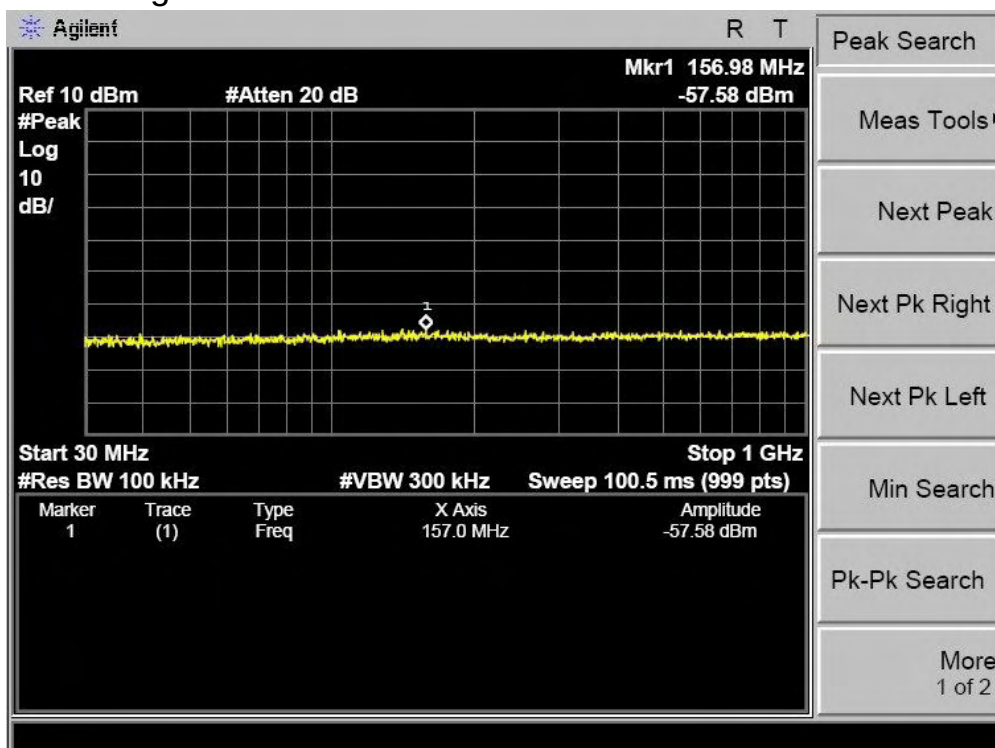
CH Low : 30MHz-25GHz



CH Mid : 30MHz-25GHz

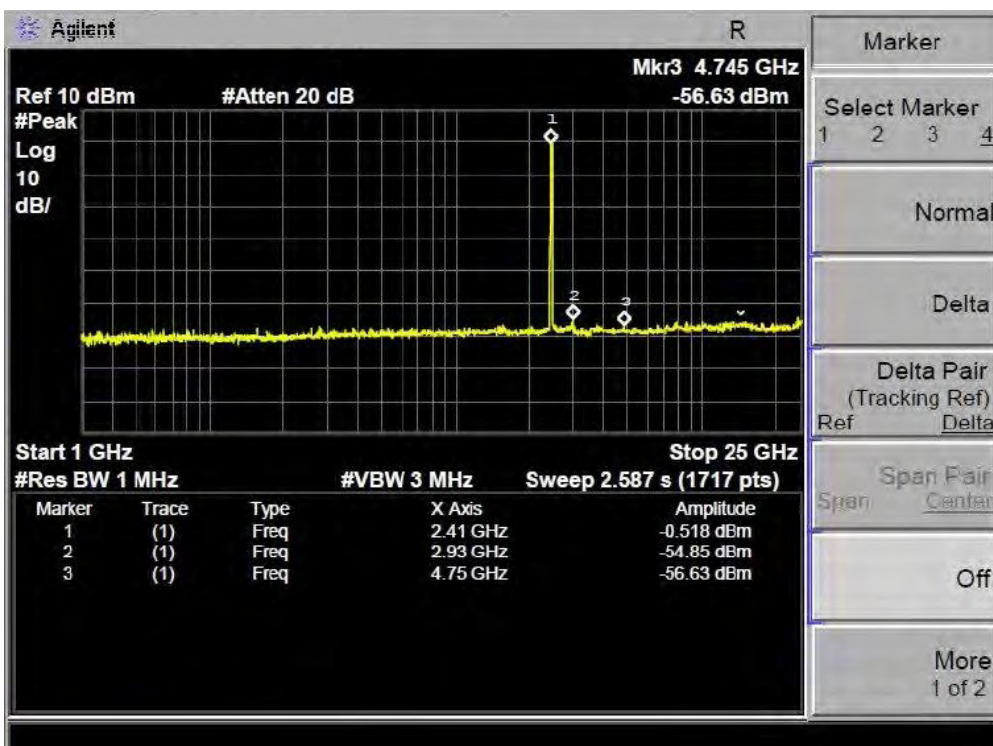
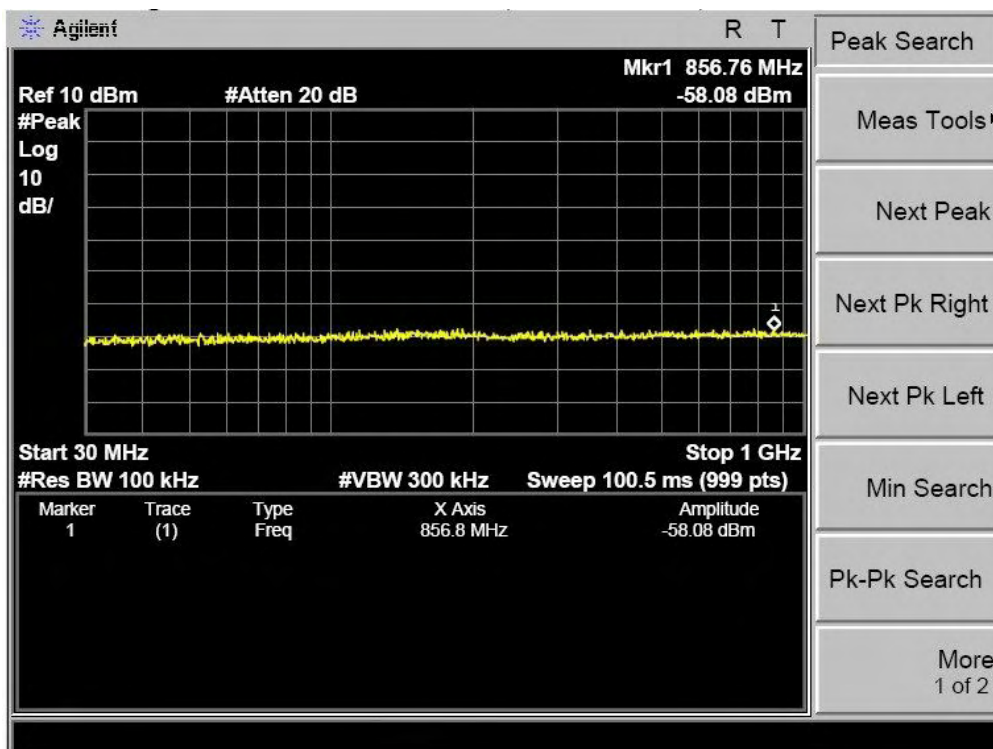


CH High : 30MHz-25GHz

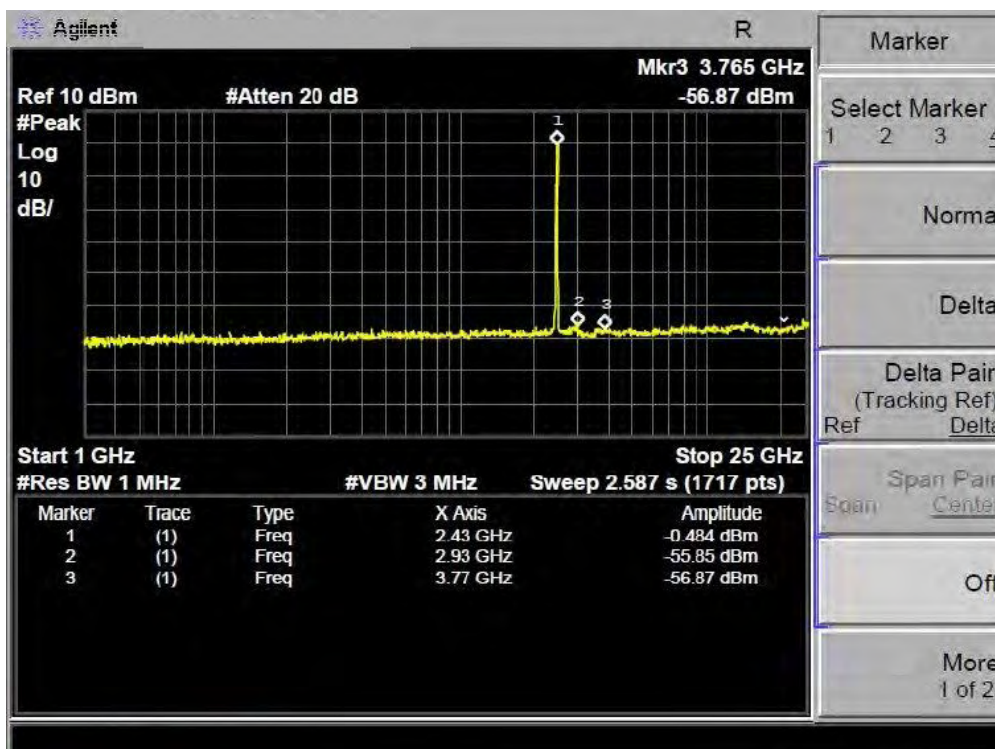
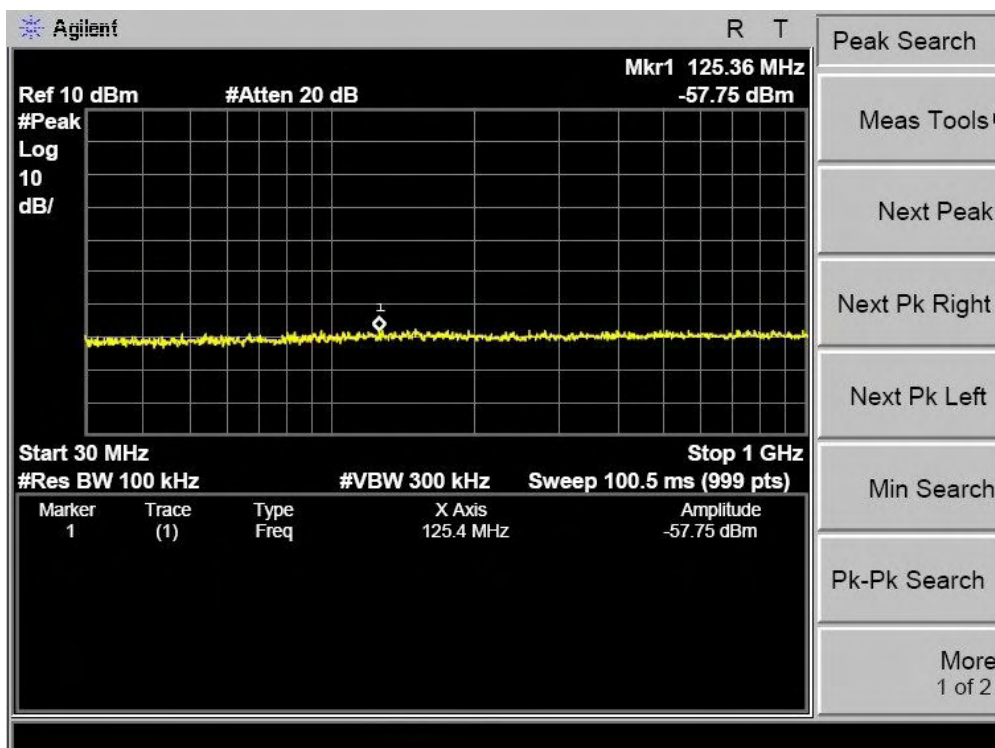


IEEE 802.11g:

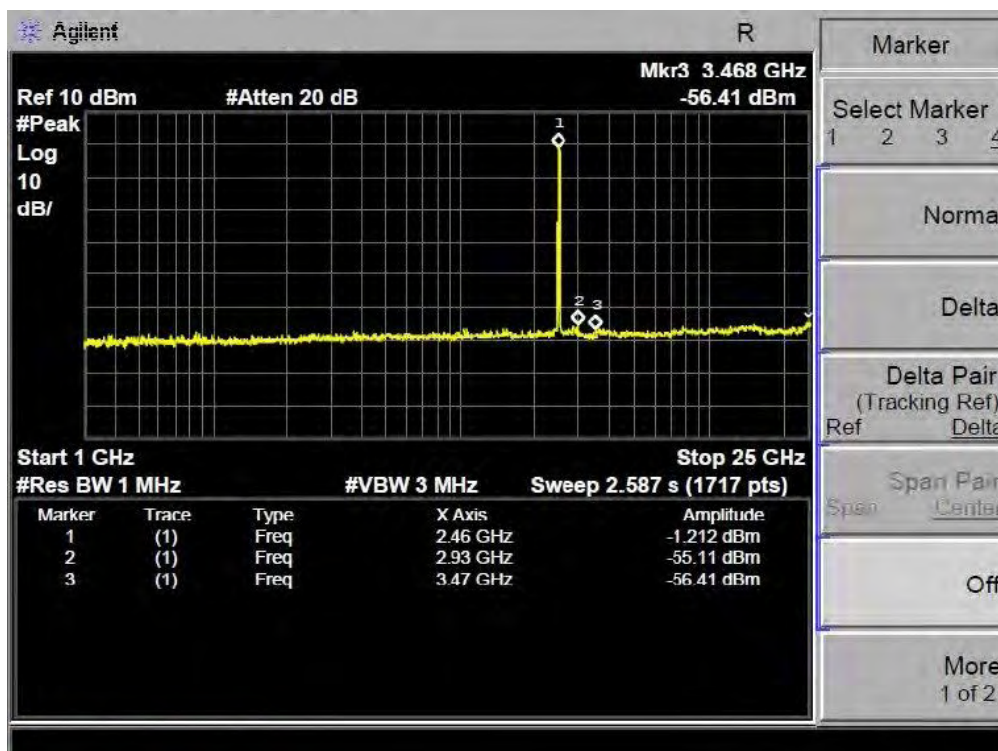
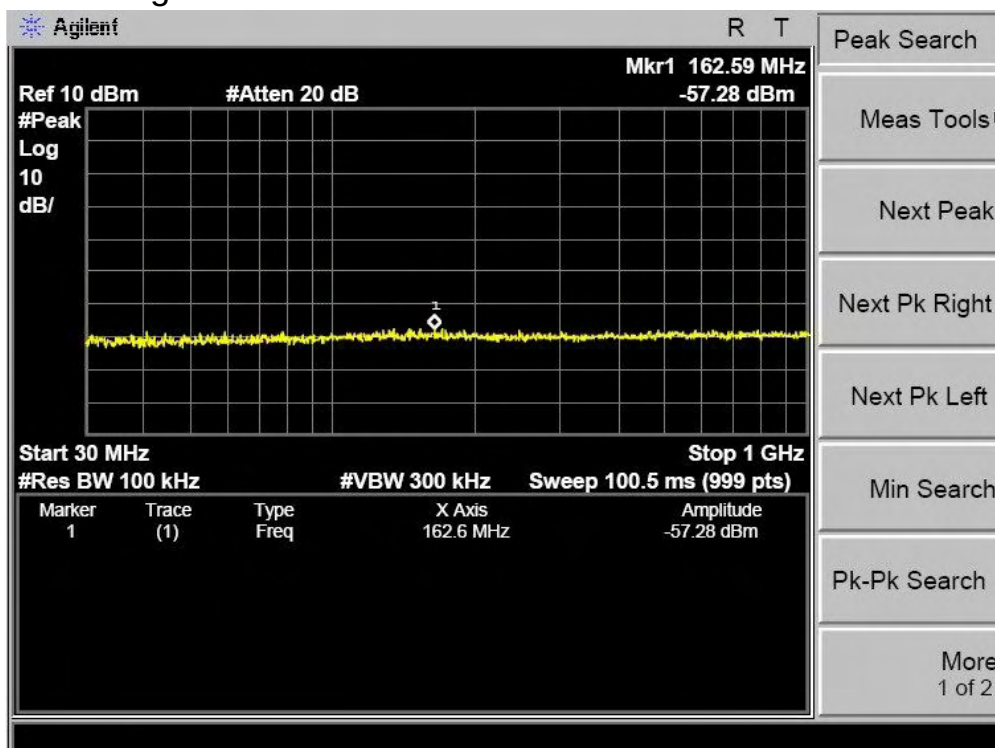
CH Low : 30MHz-25GHz



CH Mid : 30MHz-25GHz

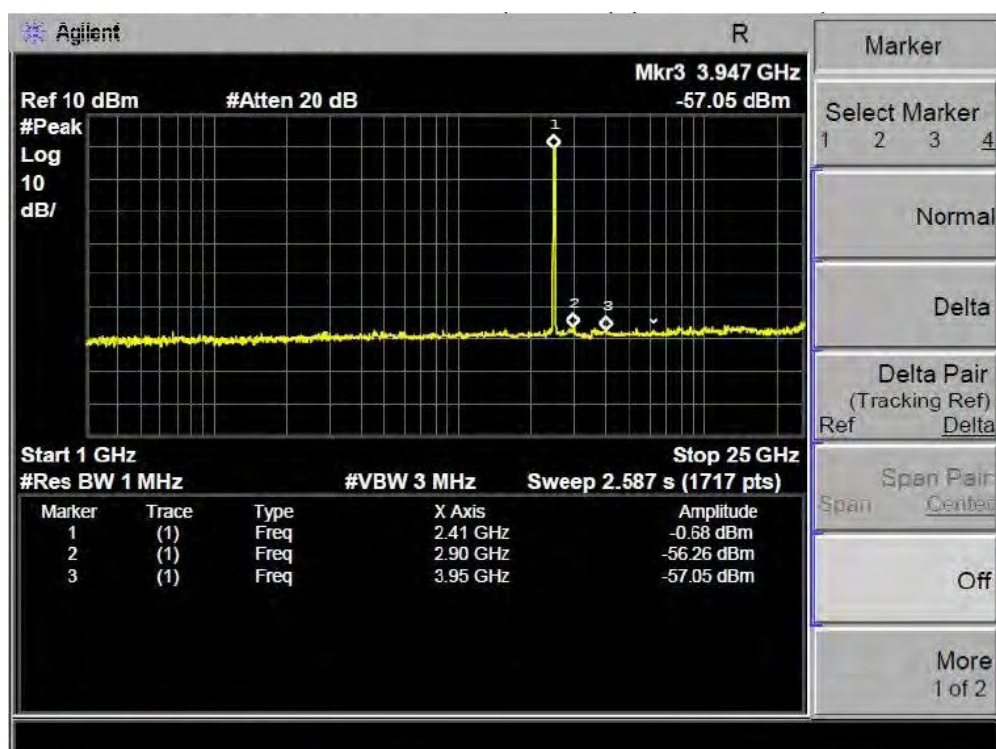
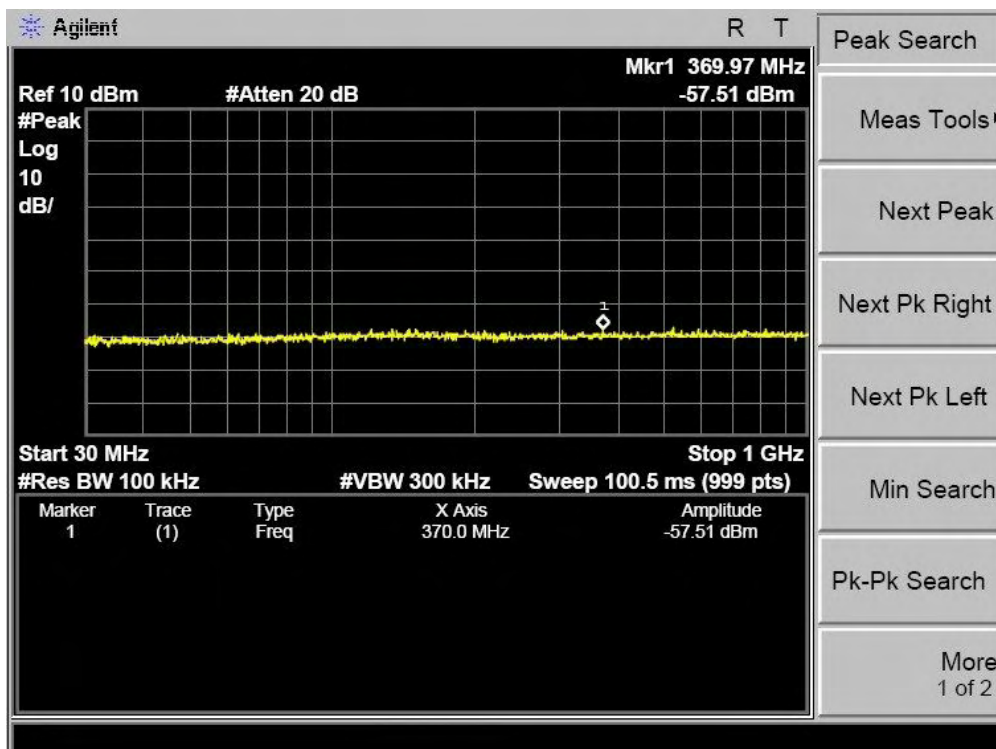


CH High : 30MHz-25GHz

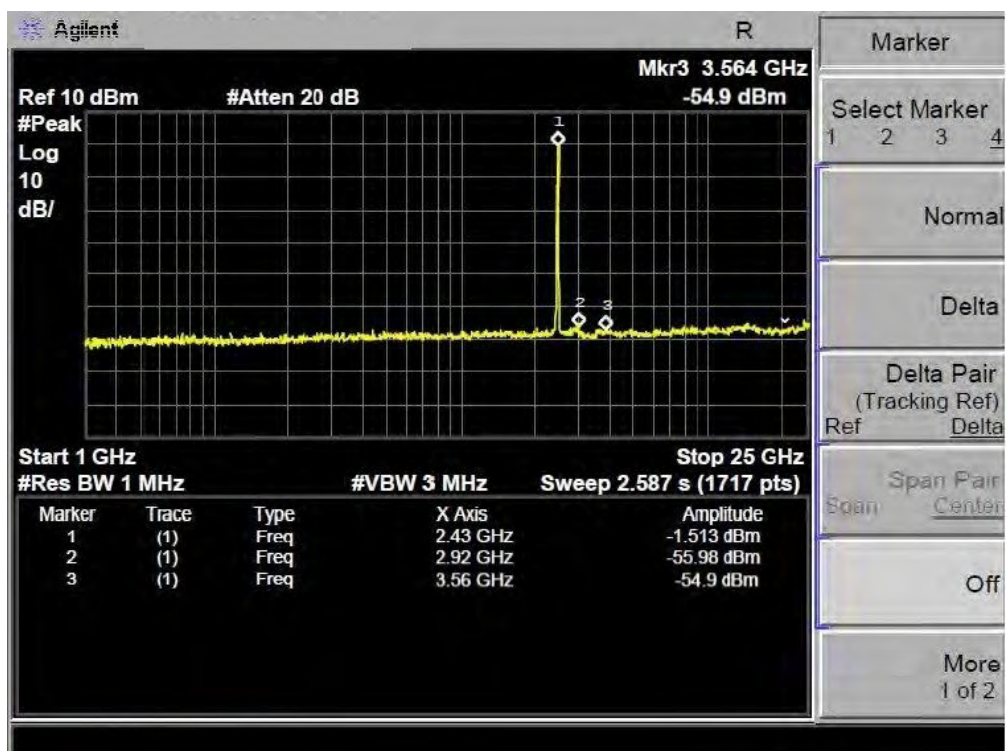
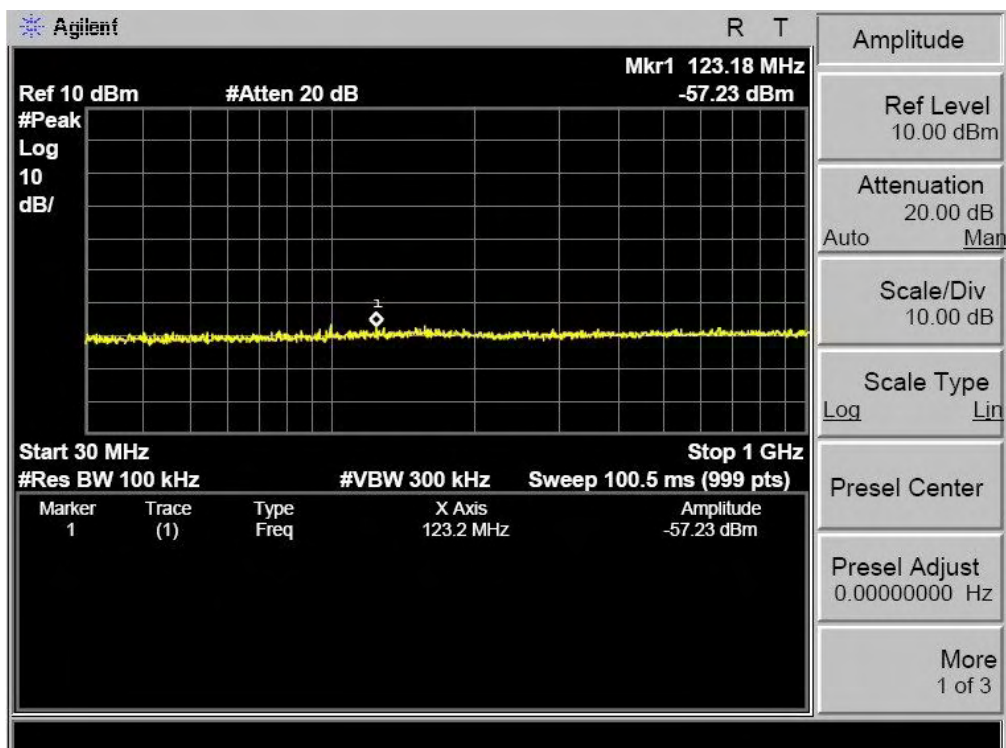


IEEE 802.11n/HT20:

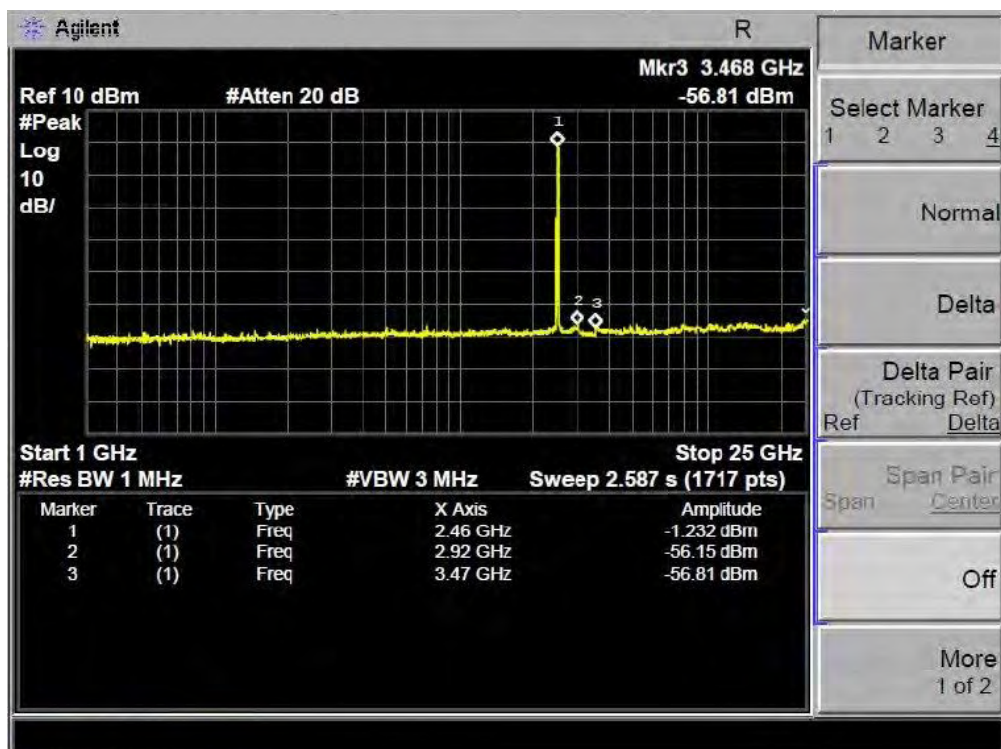
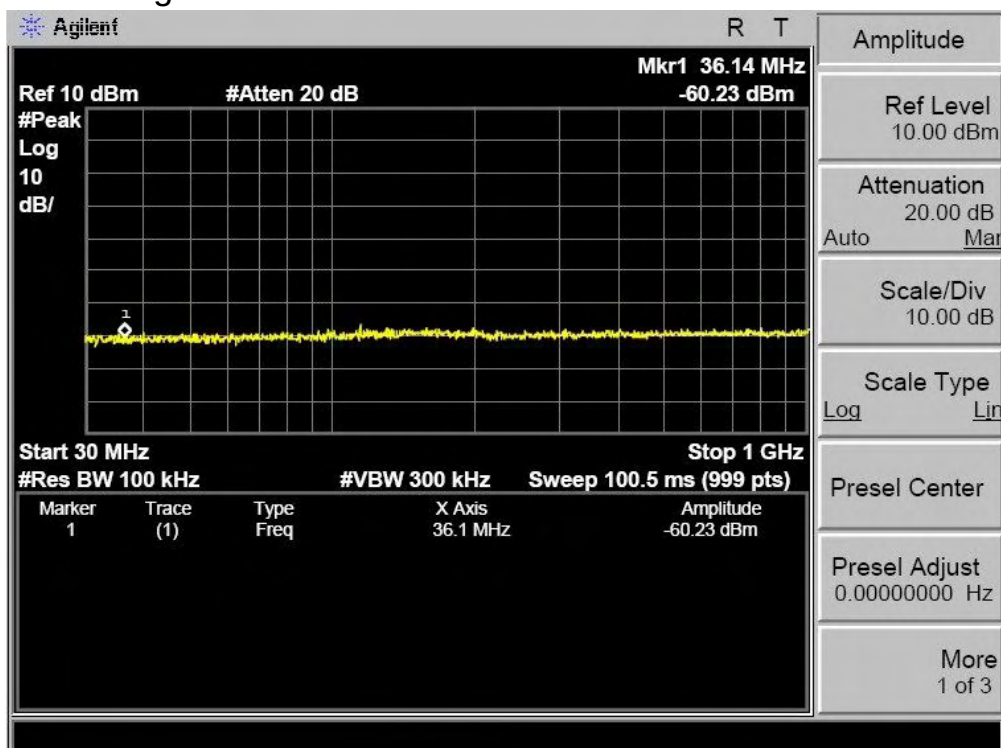
CH Low : 30MHz-25GHz



CH Mid : 30MHz-25GHz

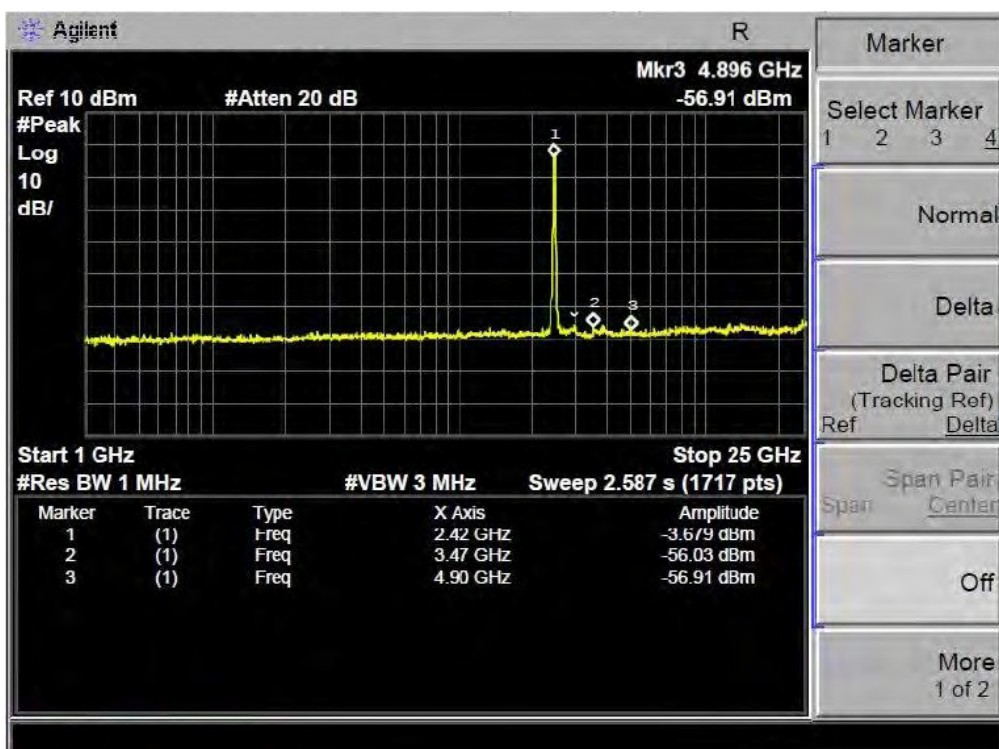
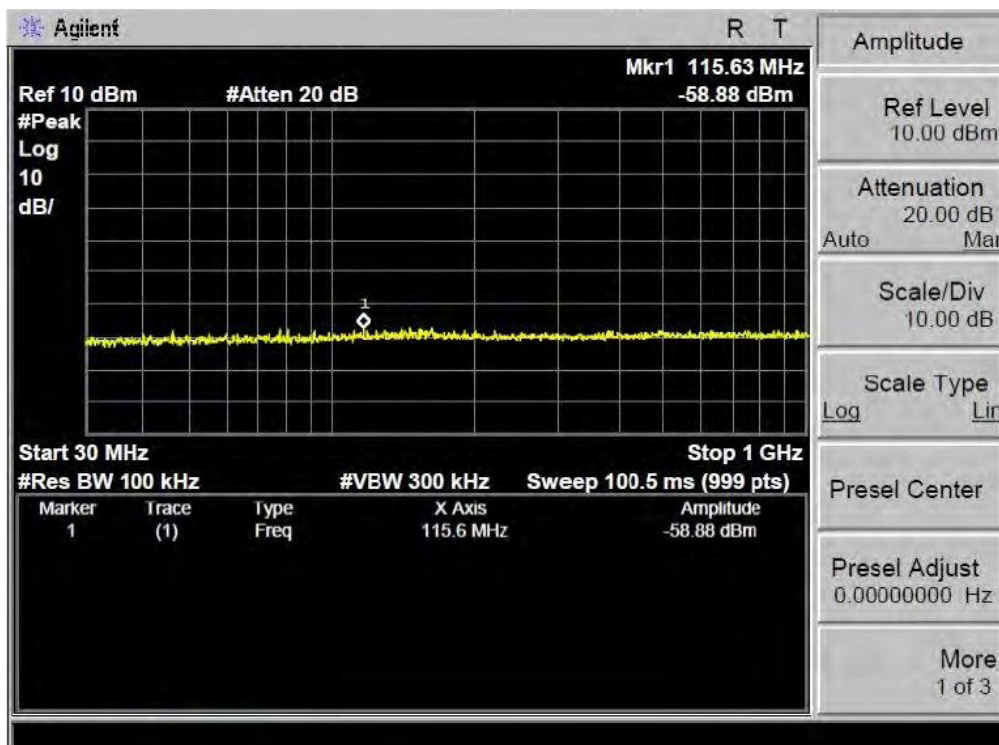


CH High : 30MHz-25GHz

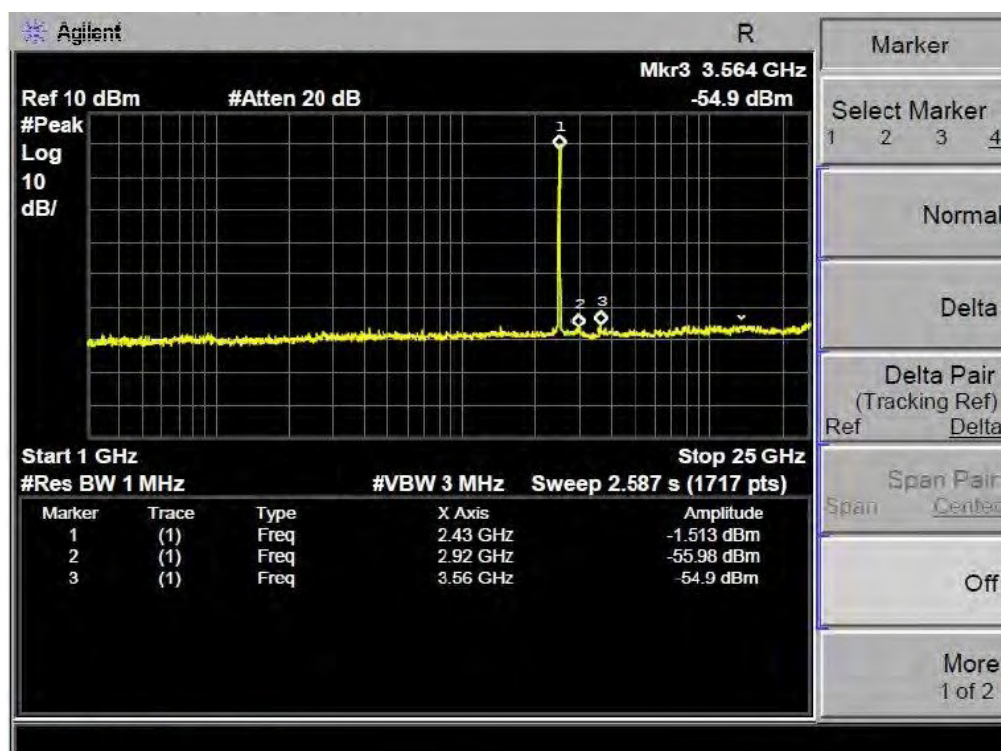
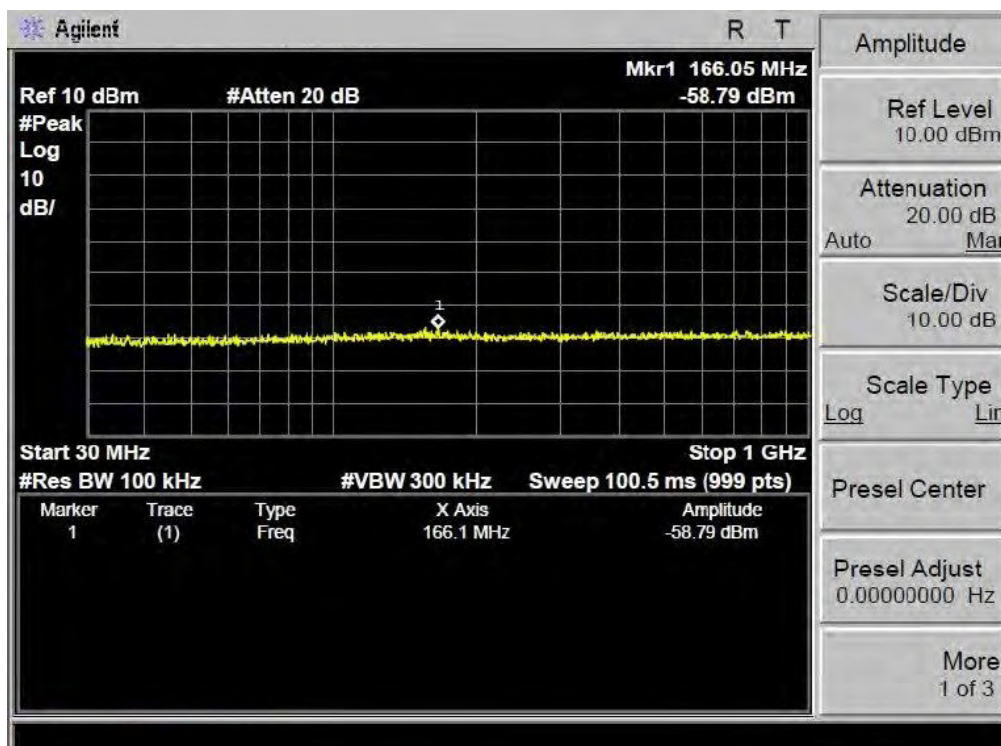


IEEE 802.11n/HT40:

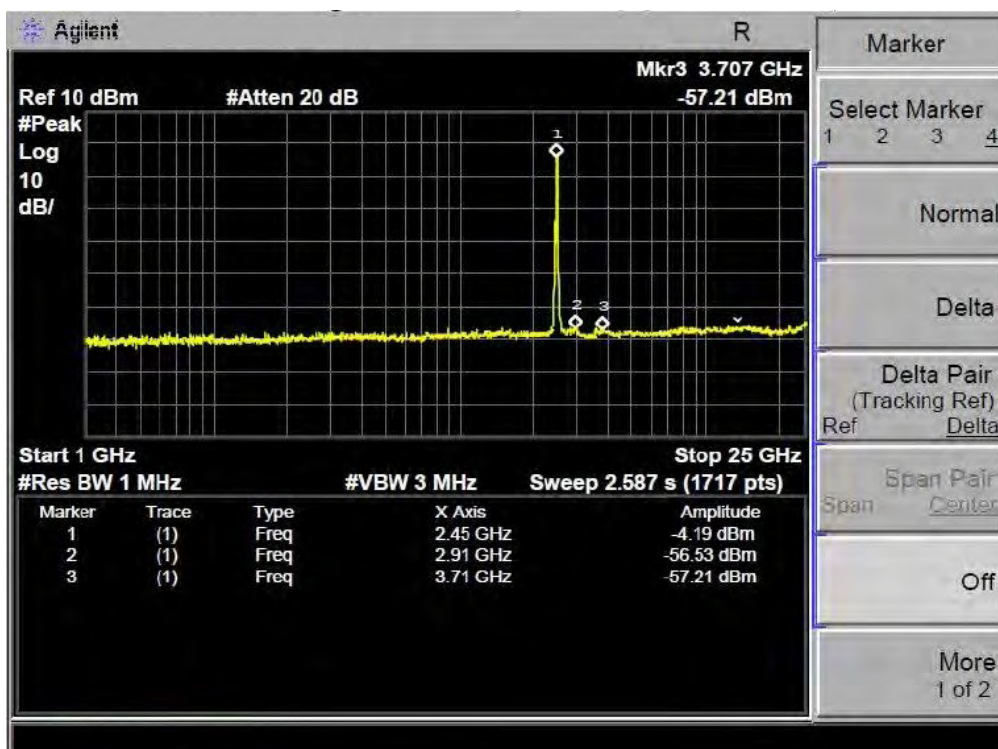
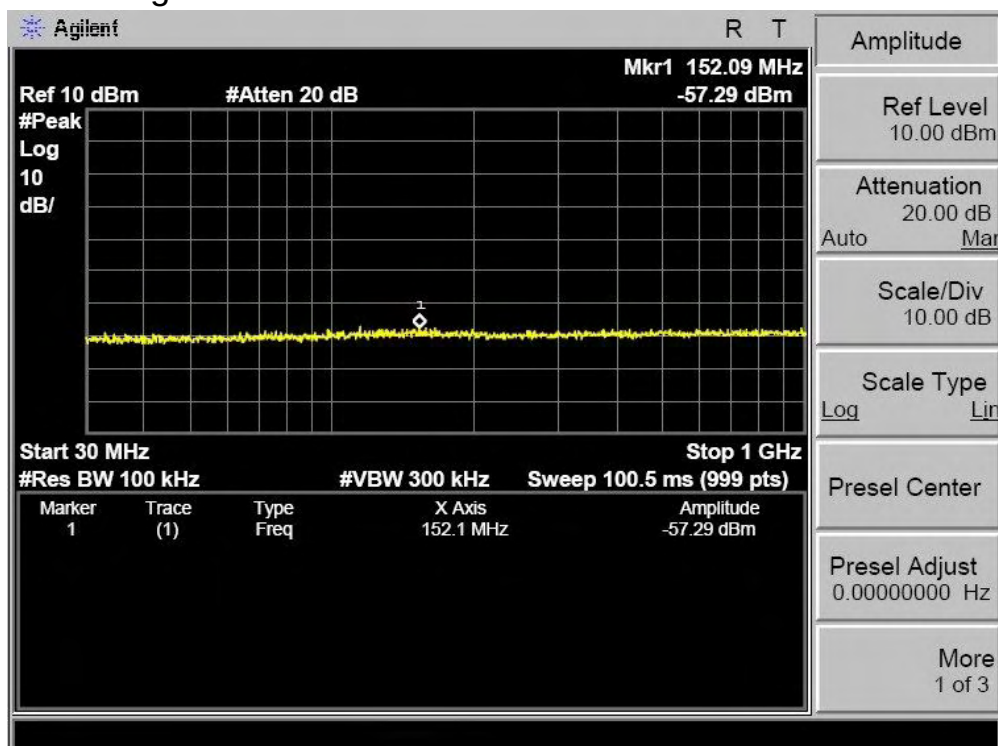
CH Low : 30MHz-25GHz



CH Mid : 30MHz-25GHz



CH High : 30MHz-25GHz



5.2 Radiation Emission

5.2.1 Radiation Emission Limits(15.209)

Frequencies (MHz)	Field Strength (micorvolts/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

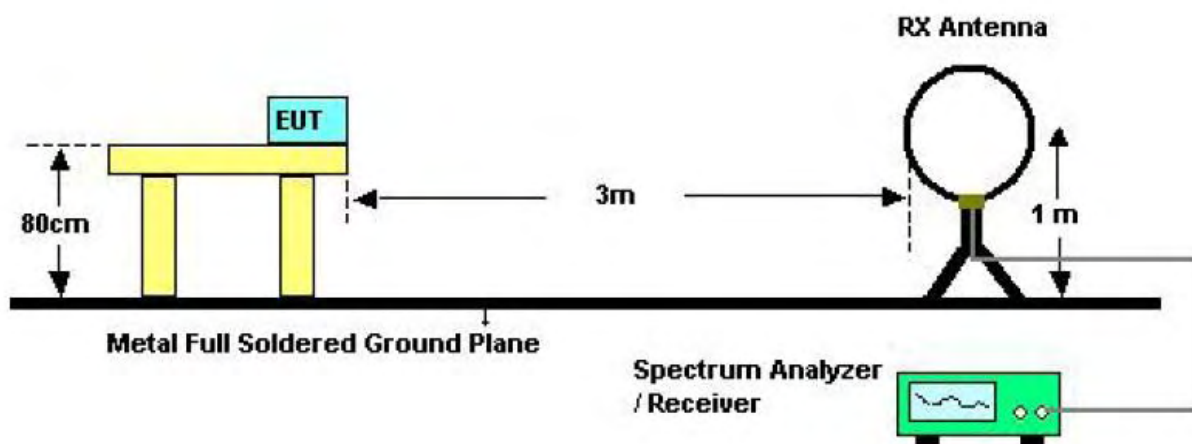
Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

NOTE:

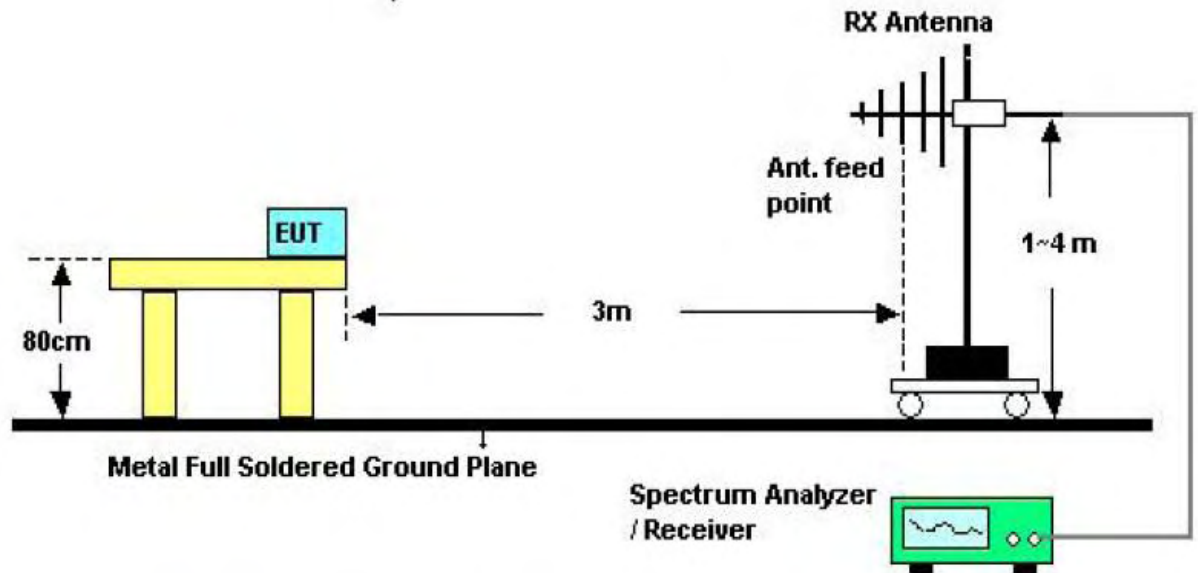
- The tighter limit applies at the band edges.
- Emission Level(dB uV/m)=20log Emission Level(Uv/m)

5.2.2 Test Setup

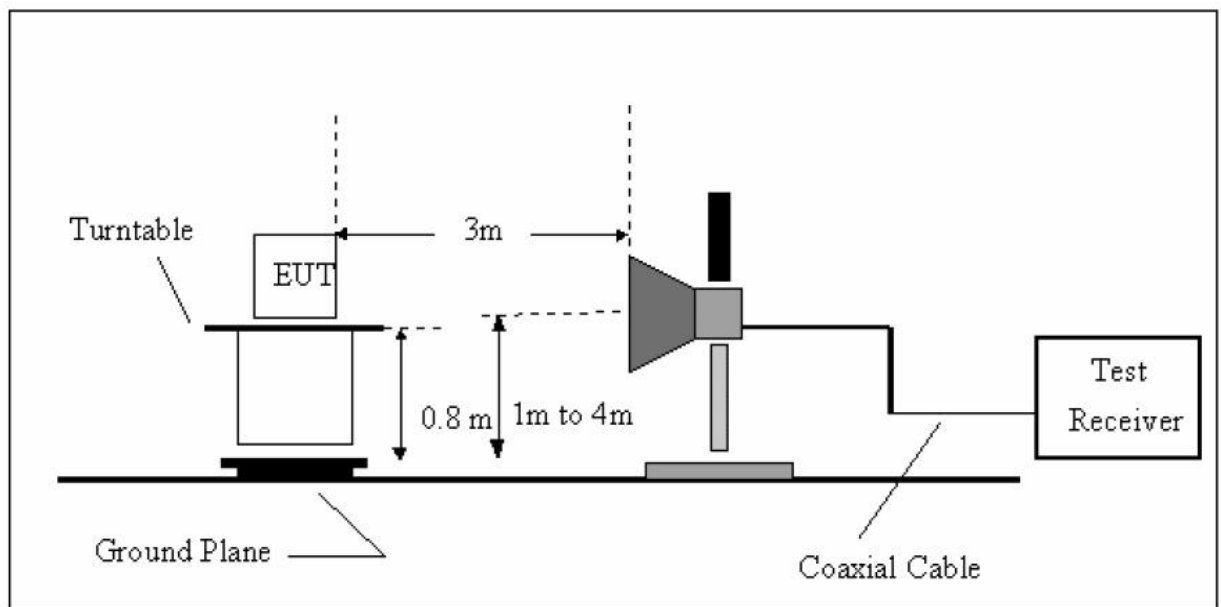
See the next page



Below 30MHZ Test Setup



Above 30MHZ Test Setup



Above 1GHZ Test Setup

5.2.3 Test Procedure

- a) The measuring distance of 3m shall be used for measurements at frequency up to 1GHZ and above 1GHZ, The EUT was placed on a rotating 0.8 m high above ground, The table was rotated 360 degrees to determine the position of the highest radiation
- b) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.
- c) The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Qusia Peak Detector mode premeasured
- d) If Peak value comply with QP limit Below 1GHZ. The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHZ.
- e) For the actual test configuration, please see the test setup photo.

5.2.4 Test Equipment Setting For emission test Result

9KHZ~150KHZ	RBW 200HZ	VBW1KHZ
150KHZ~30MHZ	RBW 9KHZ	VBW 30KHZ
30MHZ~1GHZ	RBW 120KHZ	VBW 300KHZ
Above 1GHZ	RBW 1MHZ	VBW 3MHZ

5.2.5 Test Condition

Continual Transmitting in maximum power.

5.2.6 Test Result

We have scanned the 5th harmonic from 9KHz to the EUT.

Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

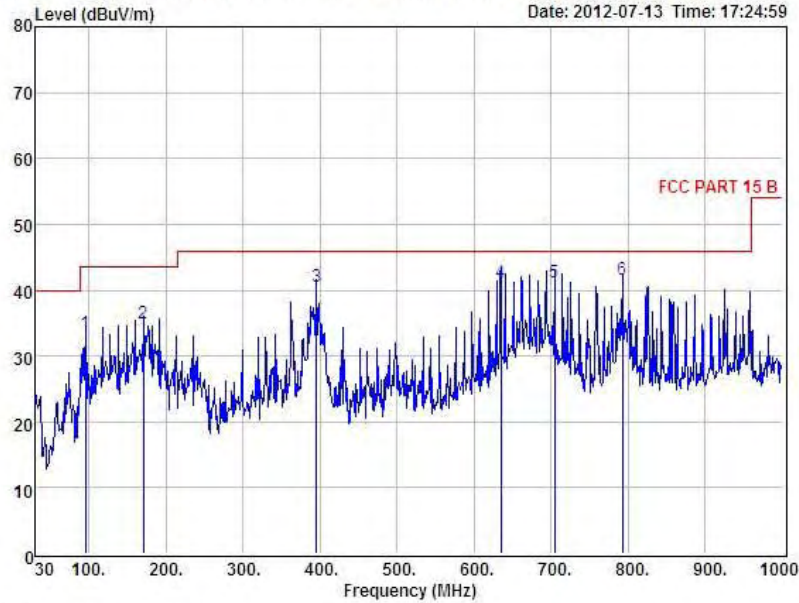
Report No.: STE120706872

From 30MHz to 1GHz



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Tel: 4006786199 FAX: +86-755-26736857
Website: <http://www.cessz.com> Email: Service@cessz.com

Data: 11 File: E:\REPORT DATA\G\GREENBOARD\STE120706873.EM6 (14) Date: 2012-07-13 Time: 17:24:59

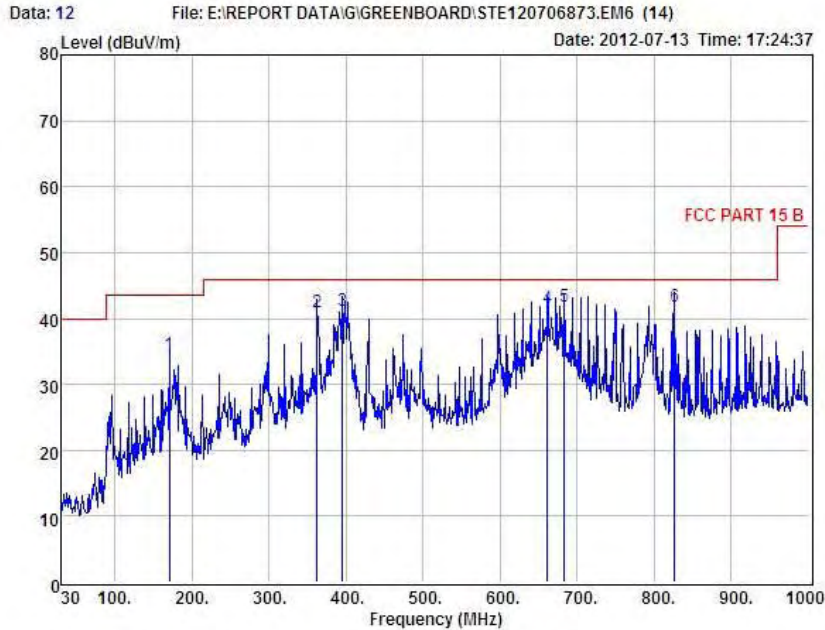


Condition : FCC PART 15 B 3m POL: VERTICAL
EUT : 4.3" Tablet PC
Model No : TPC430
Test Mode : Video Playing
Power : DC 5V Adapter Input AC 120V/60Hz
Test Engineer : Adam
Remark :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	95.96	49.66	9.87	26.83	0.84	33.54	43.50	-9.96	QP
2	170.65	47.45	13.18	26.92	1.24	34.95	43.50	-8.55	QP
3	395.69	50.82	14.68	27.42	2.44	40.52	46.00	-5.48	QP
4	634.31	46.88	18.90	27.82	3.27	41.23	46.00	-4.77	QP
5	704.15	45.82	19.72	27.75	3.41	41.20	46.00	-4.80	QP
6	792.42	44.97	20.65	27.66	3.58	41.54	46.00	-4.46	QP



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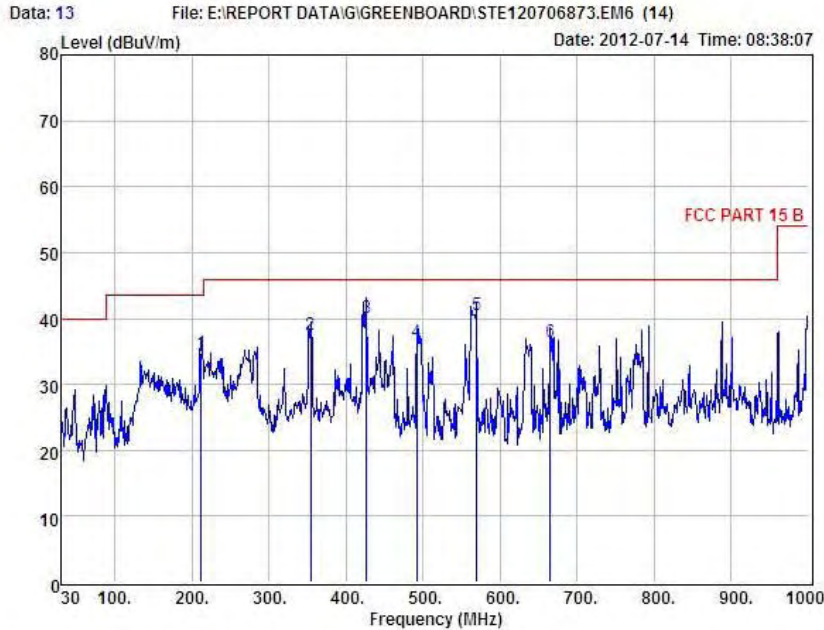


Condition : FCC PART 15 B 3m POL: HORIZONTAL
EUT : 4.3" Tablet PC
Model No : TPC430
Test Mode : Video Playing
Power : DC 5V Adapter Input AC 120V/60Hz
Test Engineer : Adam
Remark :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	170.65	47.07	13.18	26.92	1.24	34.57	43.50	-8.93	QP
2	362.71	51.90	14.07	27.31	2.27	40.93	46.00	-5.07	QP
3	395.69	51.53	14.68	27.42	2.44	41.23	46.00	-4.77	QP
4	661.47	46.85	19.23	27.78	3.32	41.62	46.00	-4.38	QP
5	682.81	46.75	19.48	27.77	3.37	41.83	46.00	-4.17	QP
6	826.37	45.07	20.87	27.68	3.65	41.91	46.00	-4.09	QP



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Website: <http://www.cessz.com> Email: Service@cessz.com

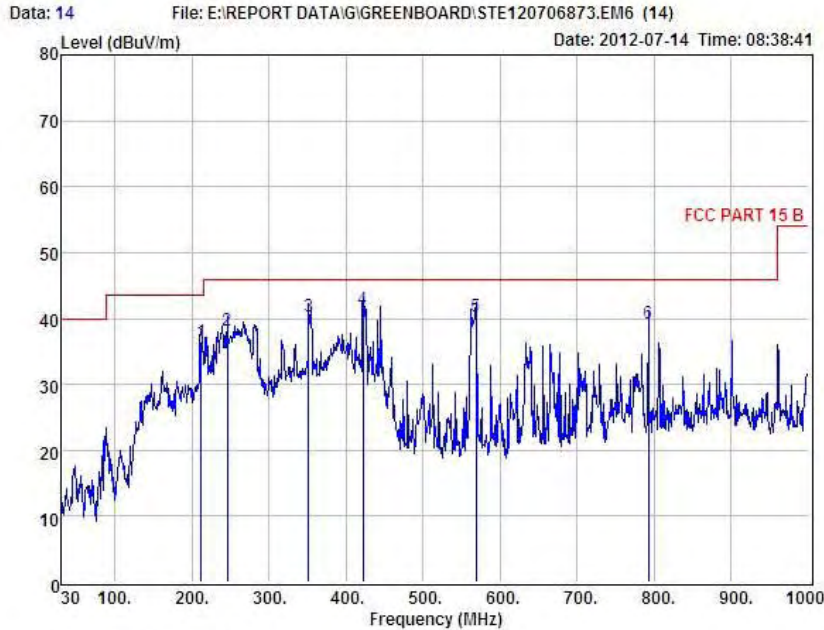


Condition : FCC PART 15 B 3m POL: VERTICAL
EUT : 4.3" Tablet PC
Model No : TPC430
Test Mode : Data Transmitting
Power : DC 5V Adapter Input AC 120V/60Hz
Test Engineer : Sun
Remark :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	212.36	52.21	10.18	29.03	1.46	34.82	43.50	-8.68	QP
2	353.98	50.63	13.91	29.28	2.22	37.48	46.00	-8.52	QP
3	426.73	51.57	15.38	29.46	2.61	40.10	46.00	-5.90	QP
4	491.72	46.70	16.41	29.60	2.95	36.46	46.00	-9.54	QP
5	569.32	49.42	17.70	29.75	3.14	40.51	46.00	-5.49	QP
6	665.35	43.71	19.28	29.78	3.33	36.54	46.00	-9.46	QP



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Condition : FCC PART 15 B 3m POL: HORIZONTAL
EUT : 4.3" Tablet PC
Model No : TPC430
Test Mode : Data Transmitting
Power : DC 5V Adapter Input AC 120V/60Hz
Test Engineer : Sun
Remark :

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	212.36	53.78	10.18	29.03	1.46	36.39	43.50	-7.11	QP
2	246.31	54.20	11.52	29.10	1.64	38.26	46.00	-7.74	QP
3	351.07	53.53	13.83	29.27	2.20	40.29	46.00	-5.71	QP
4	421.88	52.89	15.28	29.45	2.58	41.30	46.00	-4.70	QP
5	568.35	49.31	17.70	29.75	3.14	40.40	46.00	-5.60	QP
6	792.42	44.61	20.65	29.65	3.58	39.19	46.00	-6.81	QP

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1436	V	50.60	---	-10.29	40.31	---	74.00	54.00	-13.69	Peak
1724	V	47.80	---	-9.53	38.27	---	74.00	54.00	-15.73	Peak
1843	V	49.68	---	-9.16	40.52	---	74.00	54.00	-13.48	Peak
4824	V	42.84	---	0.64	43.48	---	74.00	54.00	-10.52	Peak
N/A										

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1165	H	51.05	---	-11.73	39.32	---	74.00	54.00	-14.68	Peak
2128	H	45.20	---	-8.36	36.84	---	74.00	54.00	-17.16	Peak
3047	H	46.28	---	-5.81	40.47	---	74.00	54.00	-13.53	Peak
4824	H	43.19	---	0.64	43.83	---	74.00	54.00	-10.17	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.
Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1437	V	48.47	---	-10.29	38.18	---	74.00	54.00	-15.82	Peak
1853	V	46.31	---	-9.04	37.27	---	74.00	54.00	-16.73	Peak
2962	V	46.37	---	-5.95	40.42	---	74.00	54.00	-13.58	Peak
4874	V	41.60	---	0.76	42.36	---	74.00	54.00	-11.64	Peak

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1356	H	49.48	---	-10.43	39.05	---	74.00	54.00	-14.95	Peak
1729	H	46.22	---	-9.53	36.69	---	74.00	54.00	-17.31	Peak
3463	H	43.49	---	-4.95	38.54	---	74.00	54.00	-15.46	Peak
4874	H	43.40	---	0.76	44.16	---	74.00	54.00	-9.84	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.
Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1162	V	50.25	---	-11.73	38.52	---	74.00	54.00	-15.48	Peak
1937	V	47.12	---	-8.86	38.26	---	74.00	54.00	-15.74	Peak
3053	V	46.67	---	-5.74	40.93	---	74.00	54.00	-13.07	Peak
4924	V	42.32	---	0.87	43.19	---	74.00	54.00	-10.81	Peak

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1943	H	46.54	---	-8.86	37.68	---	74.00	54.00	-16.32	Peak
3156	H	43.68	---	-5.52	38.16	---	74.00	54.00	-15.84	Peak
3682	H	46.69	---	-4.38	42.31	---	74.00	54.00	-11.69	Peak
4924	H	43.00	---	0.87	43.87	---	74.00	54.00	-10.13	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.
Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11 g:

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1462	V	47.43	---	-10.27	37.16	---	74.00	54.00	-16.84	Peak
1869	V	47.57	---	-9.04	38.53	---	74.00	54.00	-15.47	Peak
2057	V	49.23	---	-8.49	40.74	---	74.00	54.00	-13.26	Peak
4824	V	41.62	---	0.64	42.26	---	74.00	54.00	-11.74	Peak
N/A										

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1371	H	49.05	---	-10.43	38.62	---	74.00	54.00	-15.38	Peak
2854	H	42.58	---	-5.87	36.71	---	74.00	54.00	-17.29	Peak
2985	H	45.24	---	-5.86	39.38	---	74.00	54.00	-14.62	Peak
4824	H	41.50	---	0.64	42.14	---	74.00	54.00	-11.86	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.
Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1464	V	46.92	---	-10.27	36.65	---	74.00	54.00	-17.35	Peak
1728	V	46.65	---	-9.53	37.12	---	74.00	54.00	-16.88	Peak
1940	V	47.43	---	-8.86	38.57	---	74.00	54.00	-15.43	Peak
4874	V	43.28	---	0.76	44.04	---	74.00	54.00	-9.96	Peak

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1385	H	48.14	---	-10.43	37.71	---	74.00	54.00	-16.29	Peak
1621	H	48.38	---	-9.84	38.54	---	74.00	54.00	-15.46	Peak
3736	H	43.42	---	-4.24	39.18	---	74.00	54.00	-14.82	Peak
4874	H	41.88	---	0.76	42.64	---	74.00	54.00	-11.36	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.
Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1488	V	47.98	---	-10.27	37.71	---	74.00	54.00	-16.29	Peak
2953	V	44.47	---	-5.86	38.61	---	74.00	54.00	-15.39	Peak
3761	V	43.39	---	-4.07	39.32	---	74.00	54.00	-14.68	Peak
4924	V	42.66	---	0.87	43.53	---	74.00	54.00	-10.47	Peak

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1859	H	46.21	---	-9.04	37.17	---	74.00	54.00	-16.83	Peak
3046	H	44.21	---	-5.81	38.40	---	74.00	54.00	-15.60	Peak
4234	H	42.45	---	-2.31	40.14	---	74.00	54.00	-13.86	Peak
4924	H	41.40	---	0.87	42.27	---	74.00	54.00	-11.73	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.
Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11n/HT20

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1821	V	47.24	---	-9.16	38.08	---	74.00	54.00	-15.92	Peak
2037	V	45.17	---	-8.58	36.59	---	74.00	54.00	-17.41	Peak
3459	V	43.82	---	-4.95	38.87	---	74.00	54.00	-15.13	Peak
4824	V	42.08	---	0.64	42.72	---	74.00	54.00	-11.28	Peak
N/A										

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1432	H	46.93	---	-10.29	36.64	---	74.00	54.00	-17.36	Peak
1649	H	47.55	---	-9.84	37.71	---	74.00	54.00	-16.29	Peak
2853	H	43.94	---	-5.87	38.07	---	74.00	54.00	-15.93	Peak
4824	H	42.50	---	0.64	43.14	---	74.00	54.00	-10.86	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.
Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1194	V	48.40	---	-11.73	36.67	---	74.00	54.00	-17.33	Peak
1963	V	45.80	---	-8.64	37.16	---	74.00	54.00	-16.84	Peak
3572	V	44.04	---	-4.76	39.28	---	74.00	54.00	-14.72	Peak
4874	V	42.59	---	0.76	43.35	---	74.00	54.00	-10.65	Peak

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1736	H	50.24	---	-9.53	40.71	---	74.00	54.00	-13.29	Peak
2684	H	44.10	---	-6.94	37.16	---	74.00	54.00	-16.84	Peak
3511	H	43.73	---	-4.87	38.86	---	74.00	54.00	-15.14	Peak
4874	H	41.21	---	0.76	41.97	---	74.00	54.00	-12.03	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.
Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1324	V	48.98	---	-10.84	38.14	---	74.00	54.00	-15.86	Peak
1762	V	46.95	---	-9.27	37.68	---	74.00	54.00	-16.32	Peak
2028	V	47.81	---	-8.58	39.23	---	74.00	54.00	-14.77	Peak
4924	V	41.20	---	0.87	42.07	---	74.00	54.00	-11.93	Peak

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1937	H	46.58	---	-8.86	37.72	---	74.00	54.00	-16.28	Peak
3426	H	41.67	---	-5.09	36.58	---	74.00	54.00	-17.42	Peak
4158	H	42.93	---	-2.48	40.45	---	74.00	54.00	-13.55	Peak
4924	H	42.50	---	0.87	43.37	---	74.00	54.00	-10.63	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.
Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11n/HT40

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1821	V	47.32	---	-9.16	38.16	---	74.00	54.00	-15.84	Peak
2037	V	45.23	---	-8.58	36.65	---	74.00	54.00	-17.35	Peak
3459	V	44.01	---	-4.95	39.06	---	74.00	54.00	-14.94	Peak
4844	V	43.24	---	0.64	43.88	---	74.00	54.00	-10.12	Peak
N/A										

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1432	H	47.11	---	-10.29	36.82	---	74.00	54.00	-17.18	Peak
1649	H	47.55	---	-9.84	37.71	---	74.00	54.00	-16.29	Peak
2853	H	46.40	---	-5.87	40.53	---	74.00	54.00	-13.47	Peak
4844	H	42.50	---	0.64	43.14	---	74.00	54.00	-10.86	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.
Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1194	V	48.52	---	-11.73	36.79	---	74.00	54.00	-17.21	Peak
1963	V	46.66	---	-8.64	38.02	---	74.00	54.00	-15.98	Peak
3572	V	44.11	---	-4.76	39.35	---	74.00	54.00	-14.65	Peak
4874	V	41.11	---	0.76	41.87	---	74.00	54.00	-12.13	Peak

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1736	H	47.46	---	-9.53	37.93	---	74.00	54.00	-16.07	Peak
2684	H	45.45	---	-6.94	38.51	---	74.00	54.00	-15.49	Peak
3511	H	44.04	---	-4.87	39.17	---	74.00	54.00	-14.83	Peak
4874	H	42.46	---	0.76	43.22	---	74.00	54.00	-10.78	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.
Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1324	V	48.02	---	-10.84	37.18	---	74.00	54.00	-16.82	Peak
1762	V	47.53	---	-9.27	38.26	---	74.00	54.00	-15.74	Peak
2028	V	47.43	---	-8.58	38.85	---	74.00	54.00	-15.15	Peak
4904	V	43.34	---	0.87	44.21	---	74.00	54.00	-9.79	Peak

EUT	4.3" Tablet PC	Model Name	TPC430
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V supply by Adapter
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1937	H	47.68	---	-8.86	38.82	---	74.00	54.00	-15.18	Peak
3426	H	43.68	---	-5.09	38.59	---	74.00	54.00	-15.41	Peak
4158	H	42.76	---	-2.48	40.28	---	74.00	54.00	-13.72	Peak
4904	H	42.60	---	0.87	43.47	---	74.00	54.00	-10.53	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.
Emissions attenuated more than 20 dB below the permissible value are not reported.

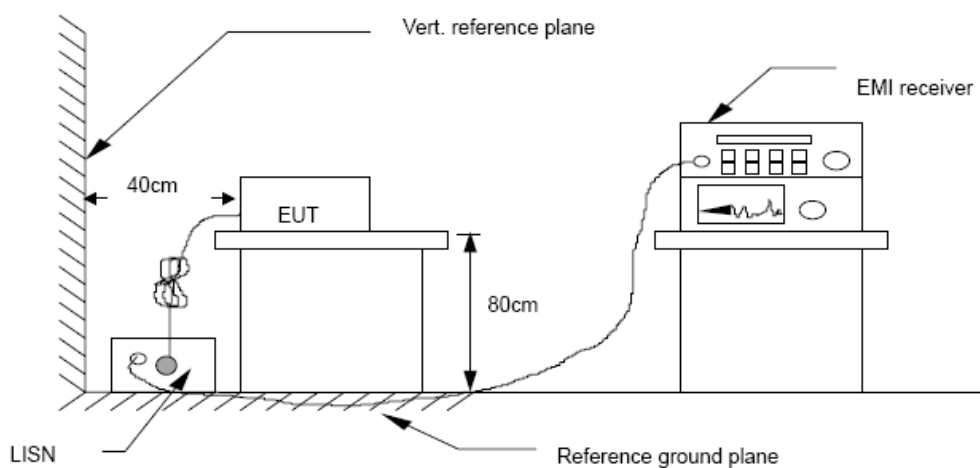
6 POWER LINE CONDUCTED EMISSION

6.1 Conducted Emission Limits(15.207)

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

- Notes: 1. *Decreasing linearly with logarithm of frequency.
 2. The lower limit shall apply at the transition frequencies.
 3. The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

6.2 Test Setup



6.3 Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

6.4 Test Results

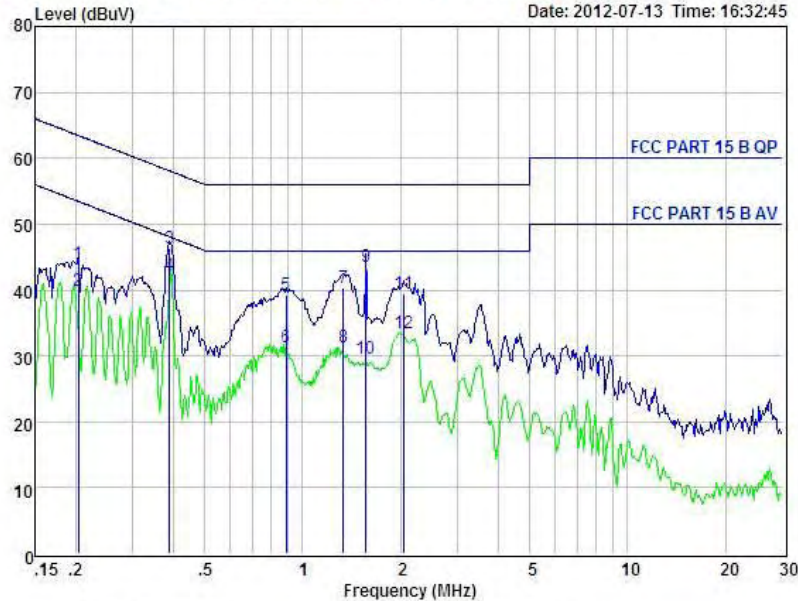
PASS

Detailed information please see the following page.



Shenzhen Certification Technology Service Co., Ltd.
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Data: 5 File: E:\TEST REPORT\IG\GREENBOARD\STE120706873.EM6 (12)
Date: 2012-07-13 Time: 16:32:45



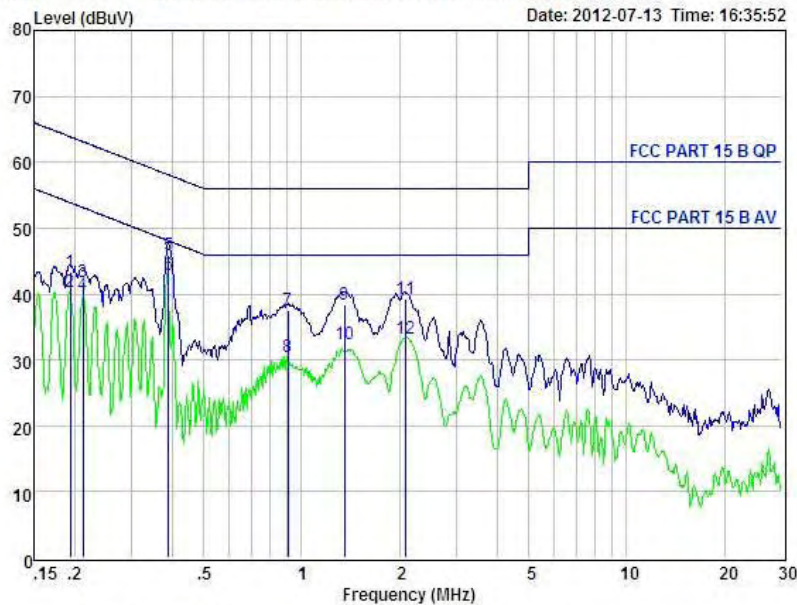
Condition : FCC PART 15 B QP
EUT : 4.3" Tablet PC
Model No : TPC430
Test Mode : Data Transmitting
Power : DC 5V Adapter Input AC 120V/60Hz
Test Engineer: Sun
Remark :

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.204	34.10	0.03	-9.72	0.10	43.95	63.45	-19.50	QP
2	0.204	30.10	0.03	-9.72	0.10	39.95	53.45	-13.50	Average
3	0.389	36.48	0.03	-9.72	0.10	46.33	58.08	-11.75	QP
4	0.389	32.48	0.03	-9.72	0.10	42.33	48.08	-5.75	Average
5	0.890	29.41	0.04	-9.71	0.10	39.26	56.00	-16.74	QP
6	0.890	21.41	0.04	-9.71	0.10	31.26	46.00	-14.74	Average
7	1.338	30.52	0.05	-9.71	0.10	40.38	56.00	-15.62	QP
8	1.338	21.52	0.05	-9.71	0.10	31.38	46.00	-14.62	Average
9	1.568	33.70	0.05	-9.71	0.10	43.56	56.00	-12.44	QP
10	1.568	19.70	0.05	-9.71	0.10	29.56	46.00	-16.44	Average
11	2.044	29.57	0.06	-9.70	0.10	39.43	56.00	-16.57	QP
12	2.044	23.57	0.06	-9.70	0.10	33.43	46.00	-12.57	Average



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Data: 7 File: E:\TEST REPORT\G\GREENBOARD\STE120706873.EM6 (12) Date: 2012-07-13 Time: 16:35:52



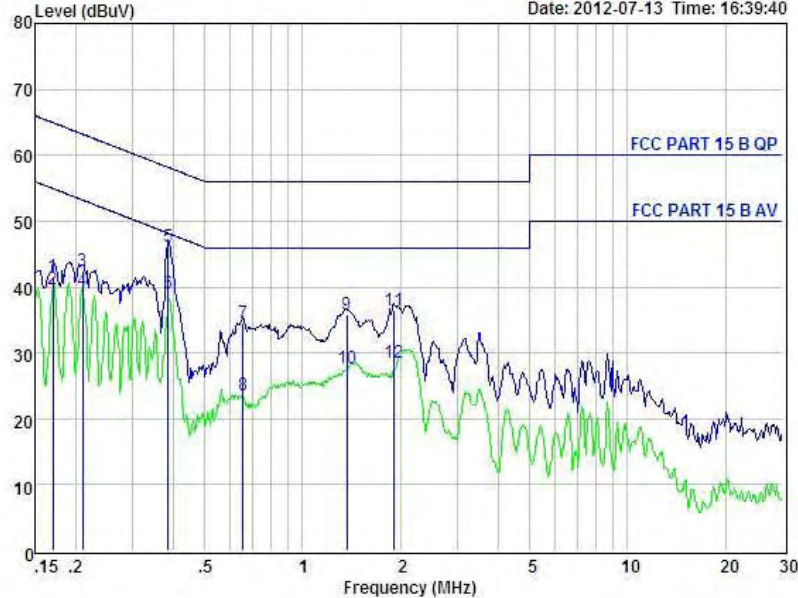
Condition : FCC PART 15 B QP POL: LINE
EUT : 4.3" Tablet PC
Model No : TPC430
Test Mode : Data Transmitting
Power : DC 5V Adapter Input AC 120V/60Hz
Test Engineer: Sun
Remark :

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.194	33.48	0.03	-9.72	0.10	43.33	63.84	-20.51	QP
2	0.194	30.48	0.03	-9.72	0.10	40.33	53.84	-13.51	Average
3	0.213	32.07	0.03	-9.72	0.10	41.92	63.10	-21.18	QP
4	0.213	30.07	0.03	-9.72	0.10	39.92	53.10	-13.18	Average
5	0.389	36.01	0.03	-9.72	0.10	45.86	58.08	-12.22	QP
6	0.389	33.01	0.03	-9.72	0.10	42.86	48.08	-5.22	Average
7	0.909	27.69	0.04	-9.71	0.10	37.54	56.00	-18.46	QP
8	0.909	20.69	0.04	-9.71	0.10	30.54	46.00	-15.46	Average
9	1.352	28.55	0.05	-9.71	0.10	38.41	56.00	-17.59	QP
10	1.352	22.55	0.05	-9.71	0.10	32.41	46.00	-13.59	Average
11	2.088	29.49	0.06	-9.70	0.10	39.35	56.00	-16.65	QP
12	2.088	23.49	0.06	-9.70	0.10	33.35	46.00	-12.65	Average



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Data: 9 File: E:\TEST REPORT\G\GREENBOARD\STE120706873.EM6 (12) Date: 2012-07-13 Time: 16:39:40



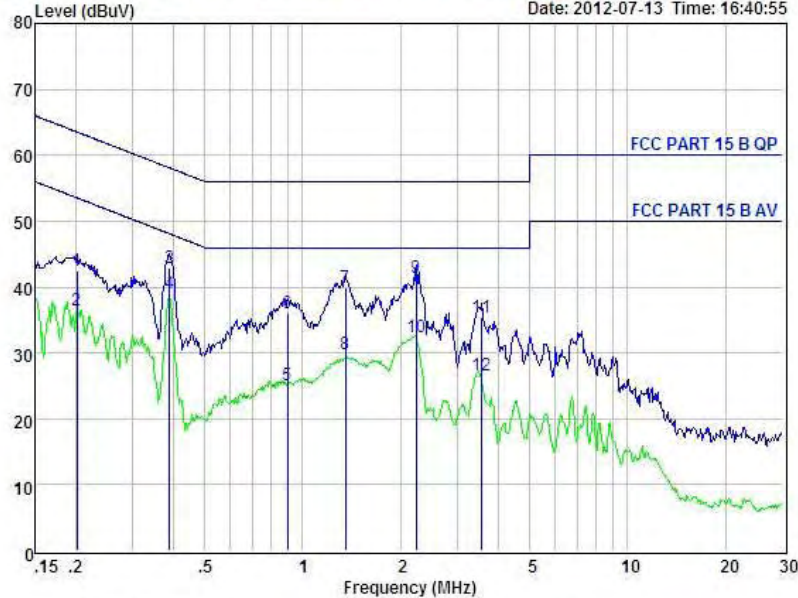
Condition : FCC PART 15 B QP POL: LINE
EUT : 4.3" Tablet PC
Model No : TPC430
Test Mode : Video Playing
Power : DC 5V Adapter Input AC 120V/60Hz
Test Engineer: Sun
Remark :

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.170	31.85	0.03	-9.72	0.10	41.70	64.94	-23.24	QP
2	0.170	29.85	0.03	-9.72	0.10	39.70	54.94	-15.24	Average
3	0.211	32.53	0.03	-9.72	0.10	42.38	63.18	-20.80	QP
4	0.211	29.53	0.03	-9.72	0.10	39.38	53.18	-13.80	Average
5	0.385	36.25	0.03	-9.72	0.10	46.10	58.17	-12.07	QP
6	0.385	29.25	0.03	-9.72	0.10	39.10	48.17	-9.07	Average
7	0.654	24.73	0.04	-9.72	0.10	34.59	56.00	-21.41	QP
8	0.654	13.73	0.04	-9.72	0.10	23.59	46.00	-22.41	Average
9	1.367	25.89	0.05	-9.71	0.10	35.75	56.00	-20.25	QP
10	1.367	17.89	0.05	-9.71	0.10	27.75	46.00	-18.25	Average
11	1.908	26.59	0.05	-9.70	0.10	36.44	56.00	-19.56	QP
12	1.908	18.59	0.05	-9.70	0.10	28.44	46.00	-17.56	Average



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Data: 11 File: E:\TEST REPORT\IG\GREENBOARD\STE120706873.EM6 (12) Date: 2012-07-13 Time: 16:40:55



Condition : FCC PART 15 B QP POL: NEUTRAL
EUT : 4.3" Tablet PC
Model No : TPC430
Test Mode : Video Playing
Power : DC 5V Adapter Input AC 120V/60Hz
Test Engineer: Sun
Remark :

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.202	32.66	0.03	-9.72	0.10	42.51	63.54	-21.03	QP
2	0.202	26.66	0.03	-9.72	0.10	36.51	53.54	-17.03	Average
3	0.389	33.09	0.03	-9.72	0.10	42.94	58.08	-15.14	QP
4	0.389	29.09	0.03	-9.72	0.10	38.94	48.08	-9.14	Average
5	0.899	15.27	0.04	-9.71	0.10	25.12	46.00	-20.88	Average
6	0.899	26.27	0.04	-9.71	0.10	36.12	56.00	-19.88	QP
7	1.352	29.96	0.05	-9.71	0.10	39.82	56.00	-16.18	QP
8	1.352	19.96	0.05	-9.71	0.10	29.82	46.00	-16.18	Average
9	2.237	31.46	0.06	-9.70	0.10	41.32	56.00	-14.68	QP
10	2.237	22.46	0.06	-9.70	0.10	32.32	46.00	-13.68	Average
11	3.565	25.60	0.08	-9.69	0.12	35.49	56.00	-20.51	QP
12	3.565	16.60	0.08	-9.69	0.12	26.49	46.00	-19.51	Average

7 Peak Power

7.1 Test limit

Please refer section 15.247.

Regulation 15.247(b) The limit of Maximum Peak Output Power Measurement is 1W(30dBm)

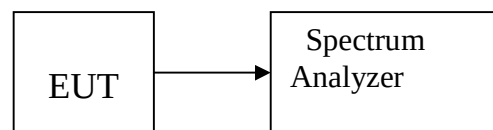
7.2 Test Procedure

Details see the KDB558074 D01 Meas Guidance

- 7.2.1 Place the EUT on the table and set it in transmitting mode.
- 7.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 7.2.3 Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Sweep=auto.
- 7.2.4 Record the max. reading.
- 7.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

Details see the KDB558074 DTS Meas Guidance

7.3 Test Setup



7.4 Test Results

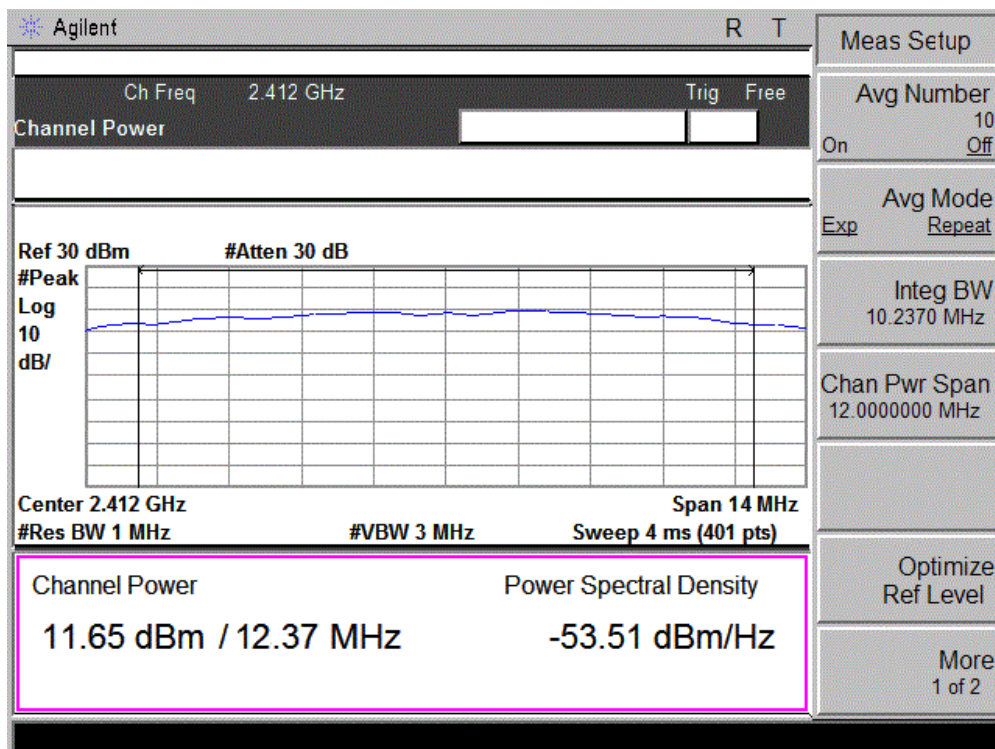
PASS

Detailed information please see the following page.

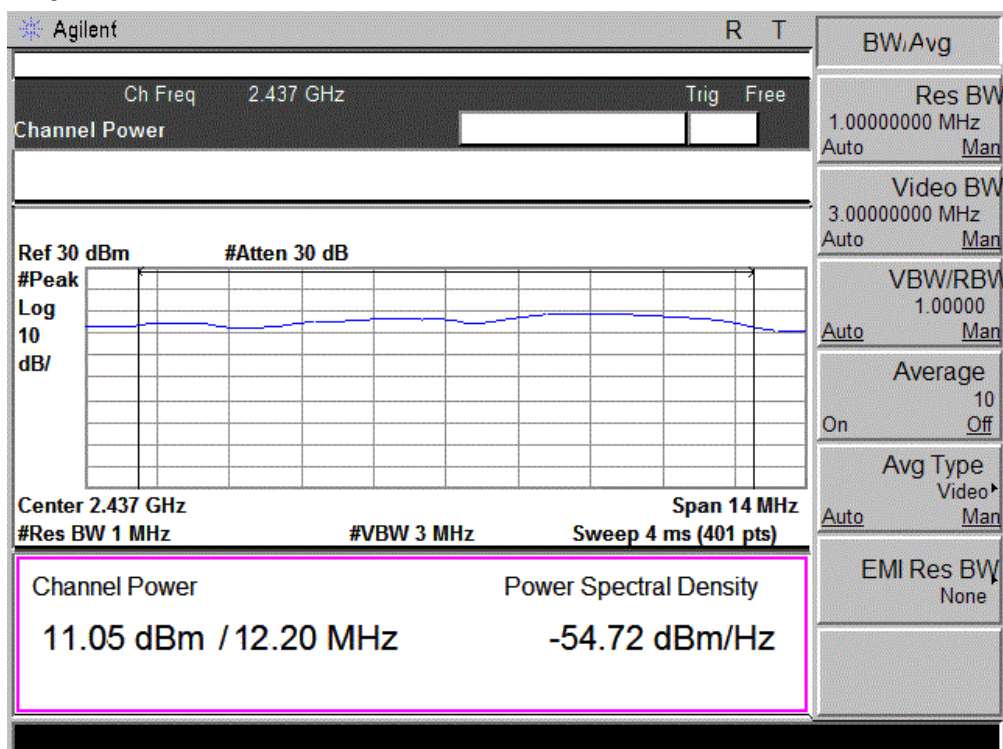
Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Out put Power (dBm)	Out put Power (W)	Limit (W)	Result
IEEE 802.11b:							
Mid	2412	11.65	1.32	12.97	0.01982	1	PASS
High	2437	11.05	1.32	12.37	0.01726		PASS
Low	2462	10.25	1.32	11.57	0.01435		PASS
IEEE 802.11g:							
Low	2412	10.36	1.32	11.68	0.01472	1	PASS
Mid	2437	10.15	1.32	11.47	0.01403		PASS
High	2462	10.20	1.32	11.52	0.01419		PASS
IEEE 802.11n/HT20:							
Low	2412	10.28	1.32	11.60	0.01445	1	PASS
Mid	2437	10.34	1.32	11.66	0.01466		PASS
High	2462	10.18	1.32	11.50	0.01413		PASS
IEEE 802.11n/HT40:							
Low	2422	10.05	1.32	11.37	0.01371	1	PASS
Mid	2437	10.11	1.32	11.43	0.01390		PASS
High	2452	10.14	1.32	11.46	0.01400		PASS
Note: Factor = antenna+ Offst=0.82+0.5=1.32dB							

IEEE 802.11b:

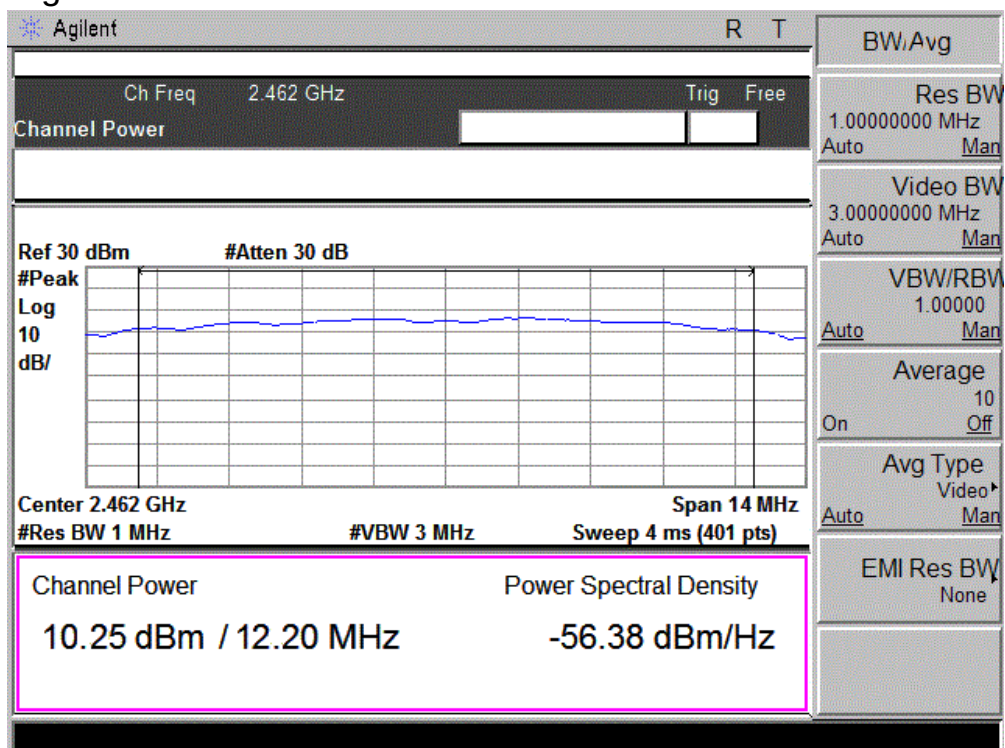
CH Low :



CH Mid :

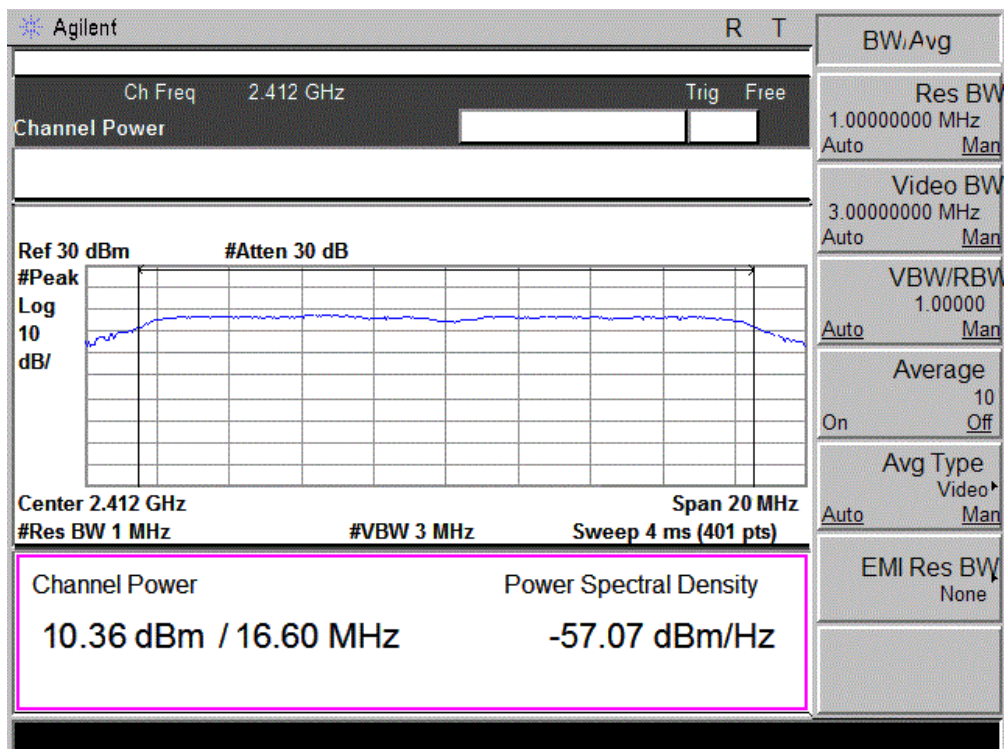


CH High :

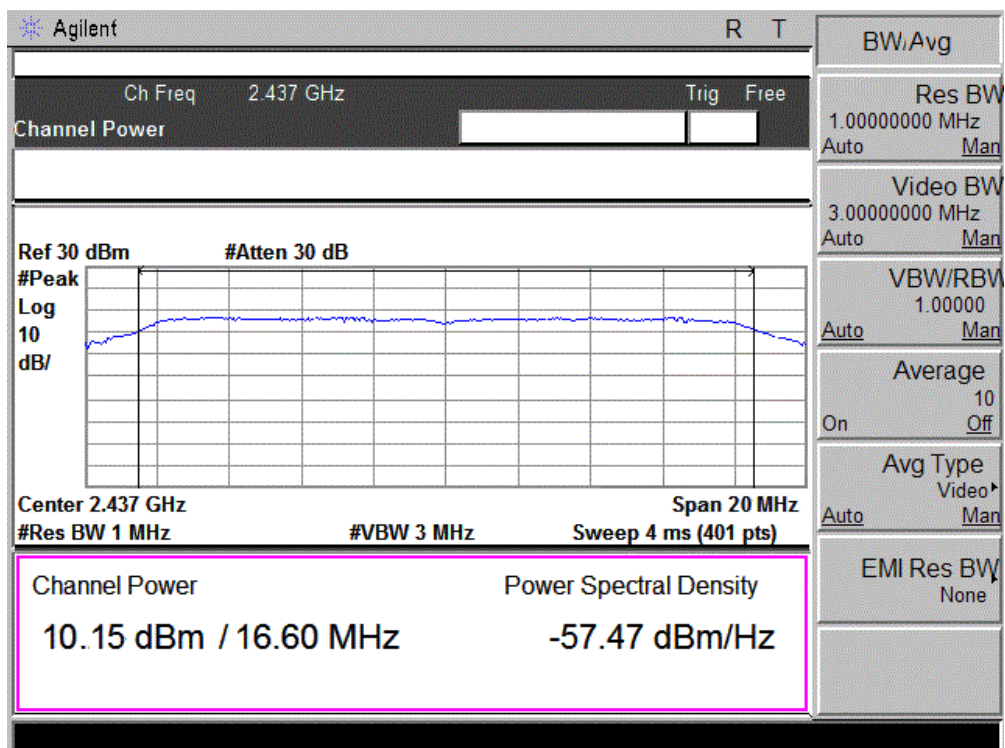


IEEE 802.11g:

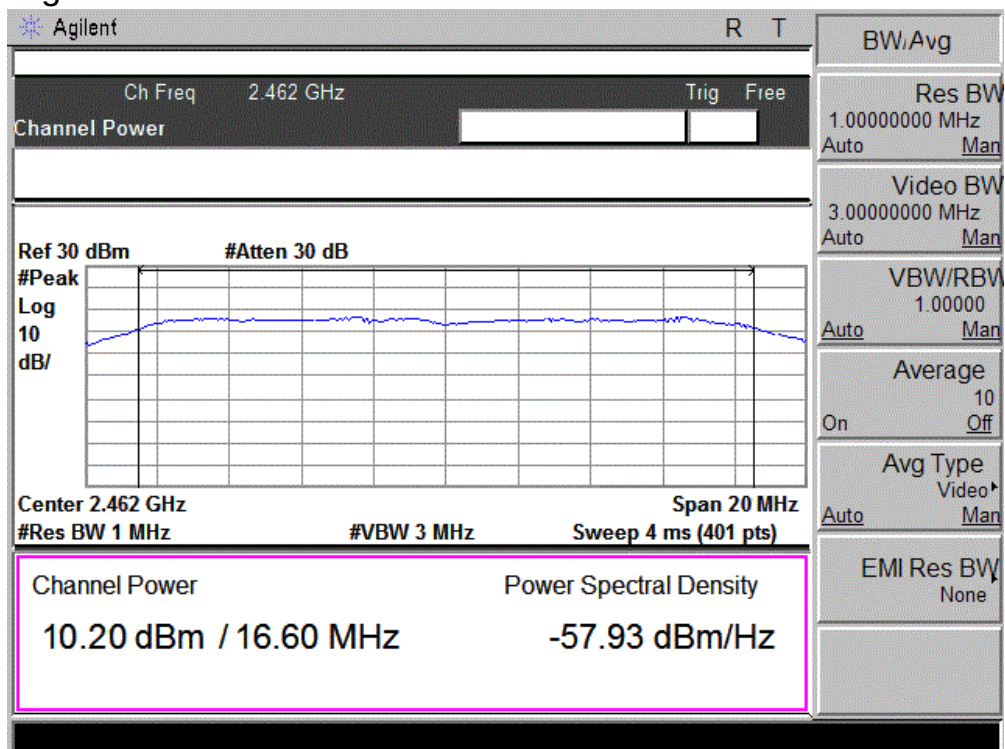
CH Low :



CH Mid :



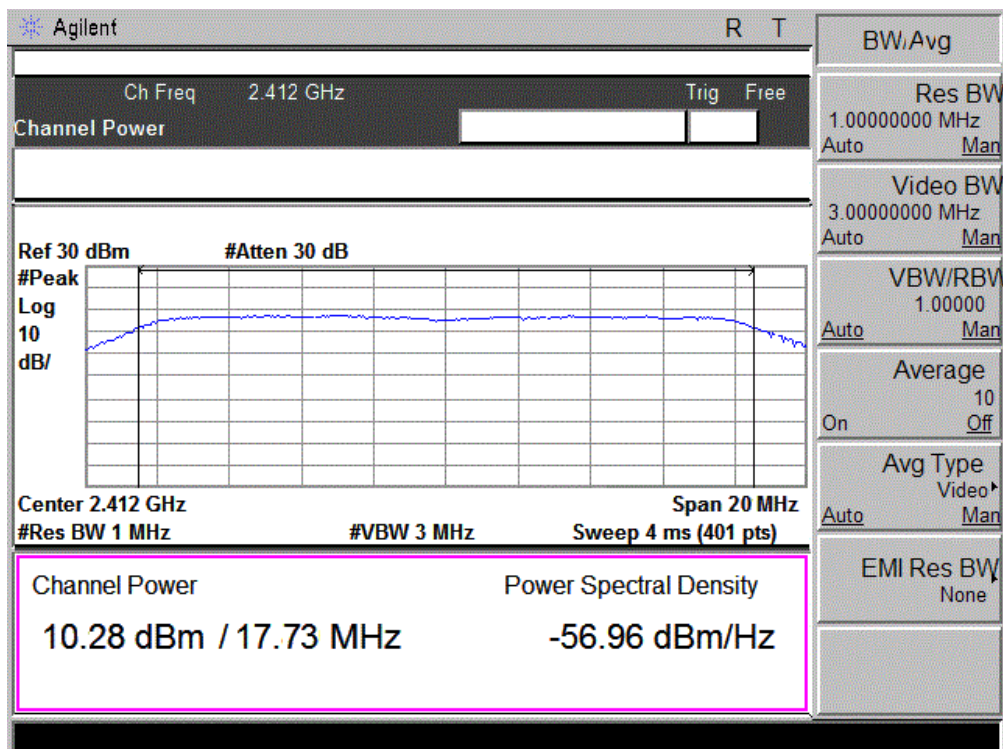
CH High :



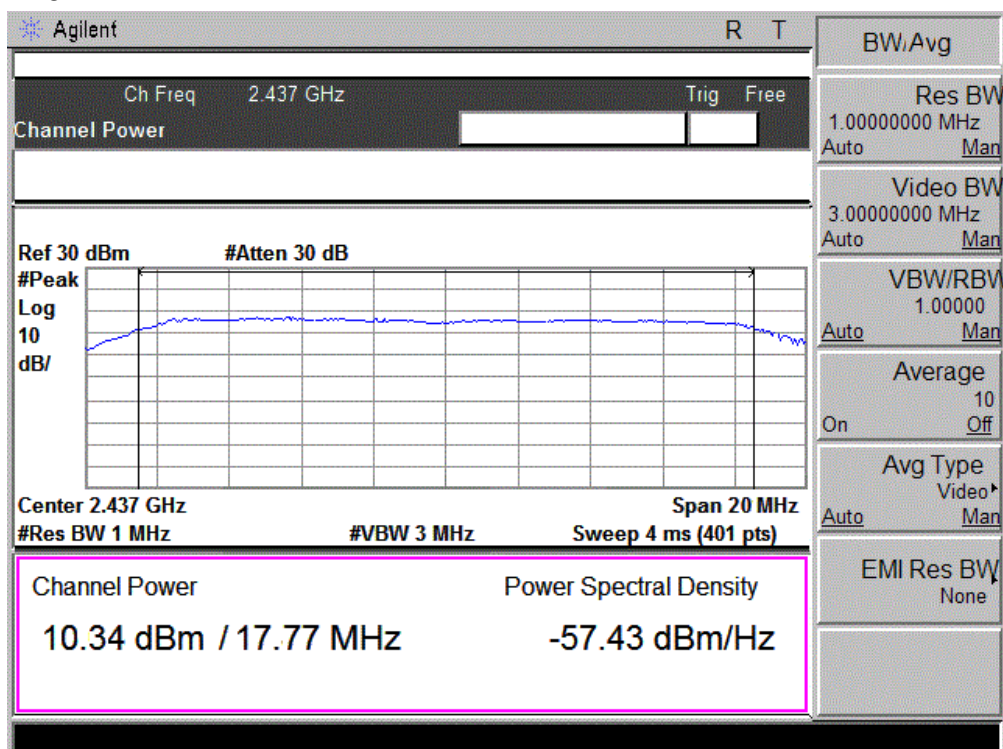
Report No.: STE120706872

IEEE 802.11n/HT20:

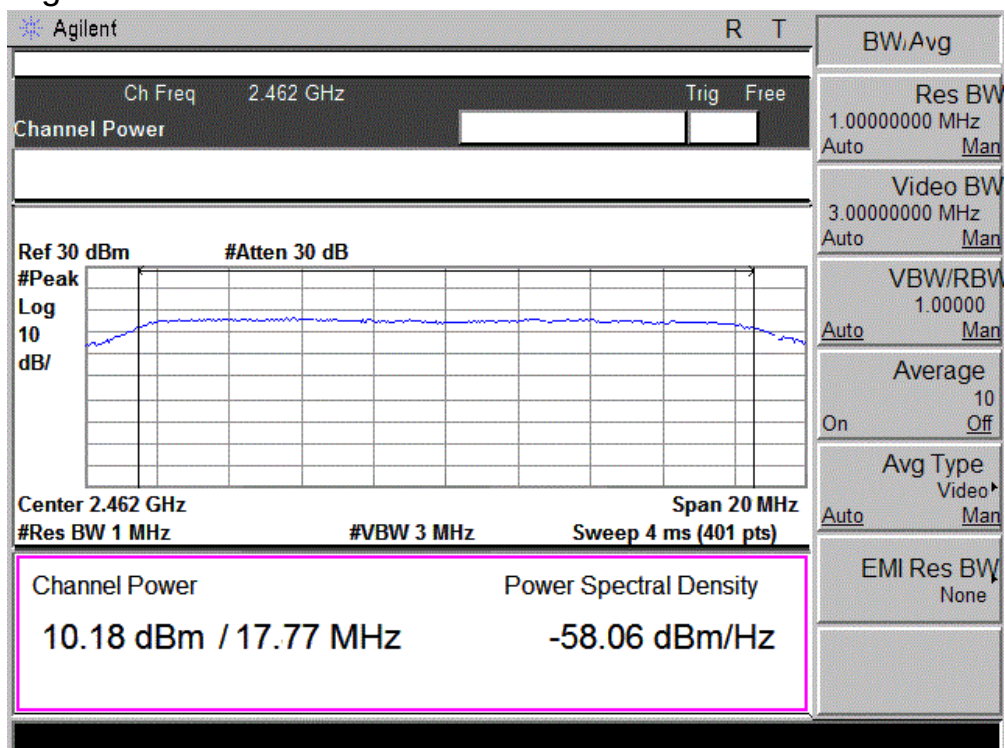
CH Low :



CH Mid :

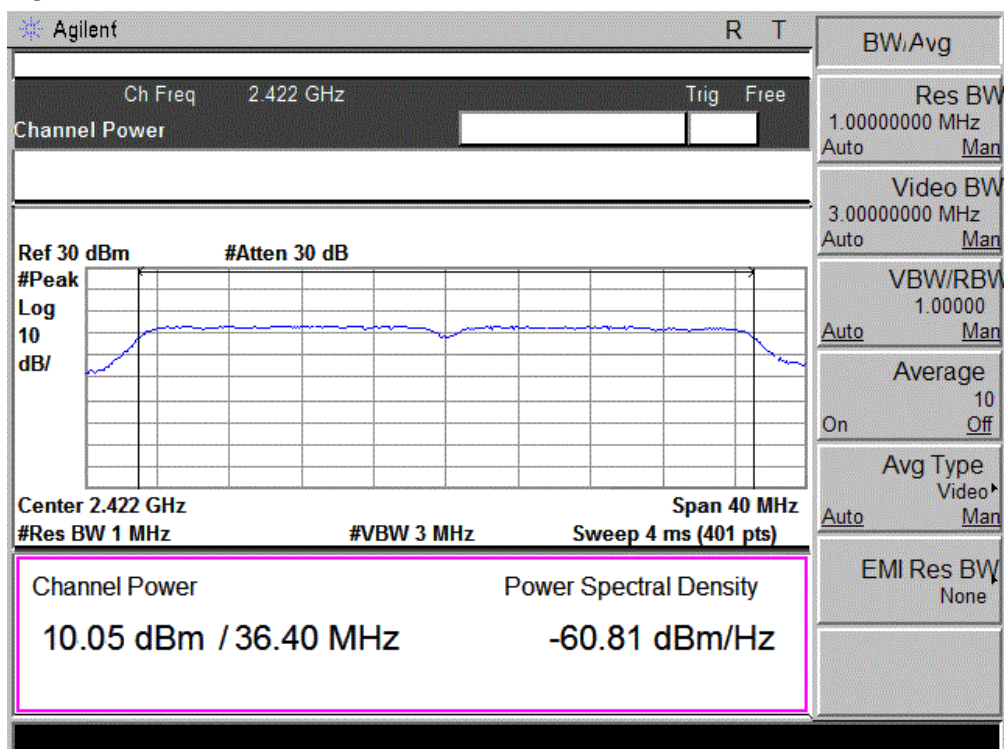


CH High :

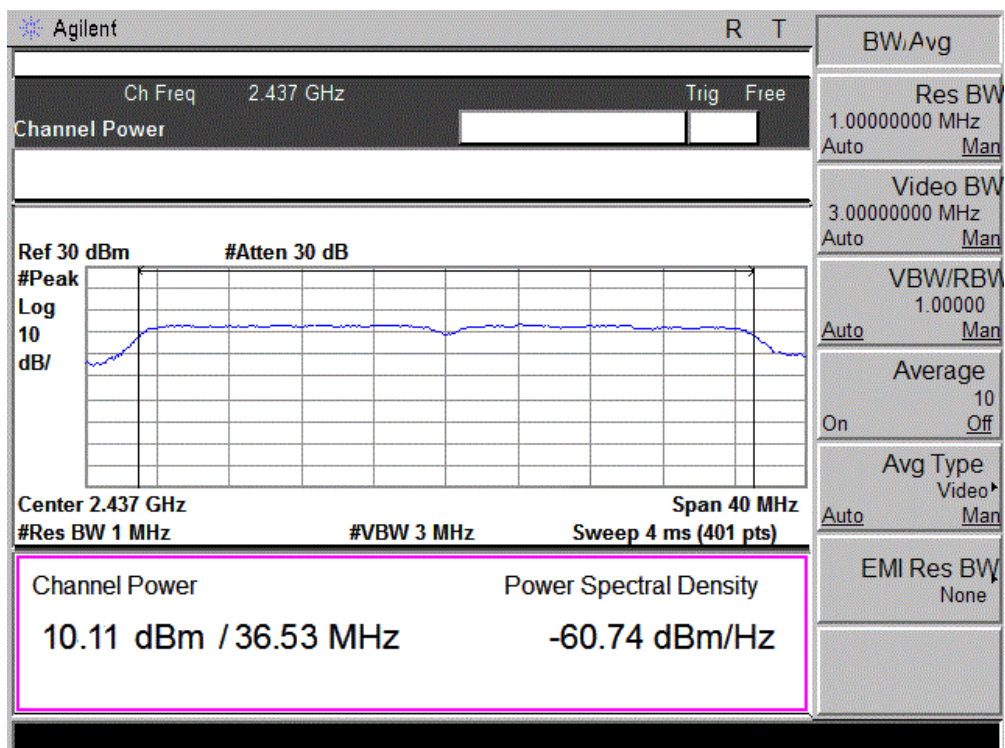


IEEE 802.11n/HT40:

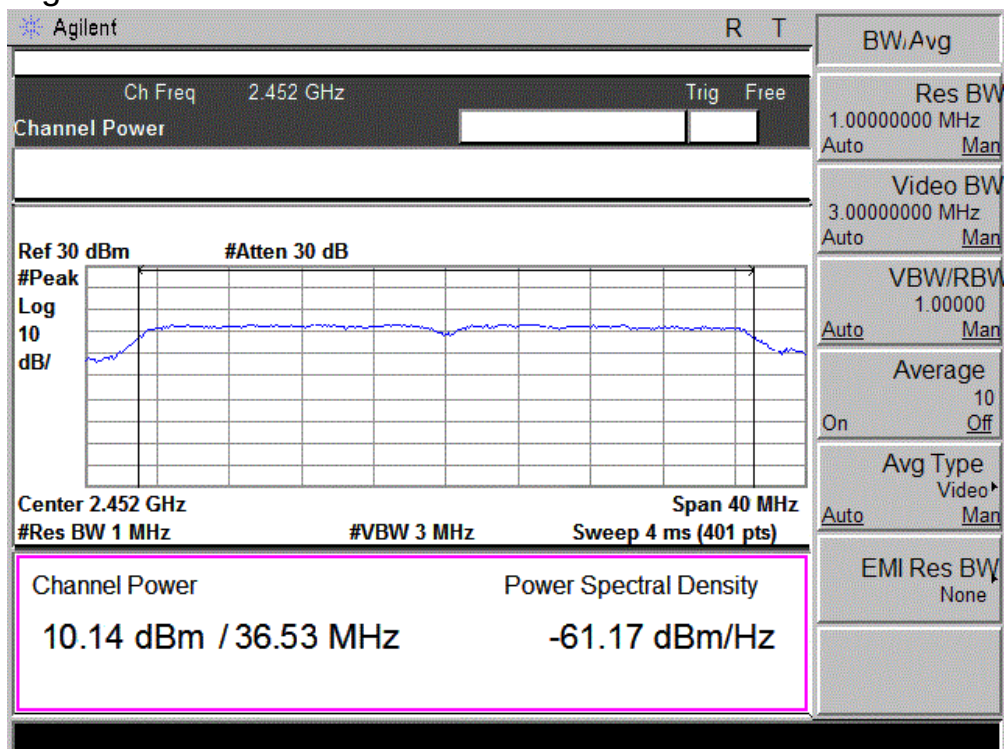
CH Low :



CH Mid :



CH High :



8 PEAK POWER SPECTRAL DENSITY

8.1 Test limit

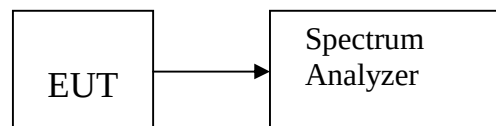
- 8.1.1 Please refer section 15.247.
- 8.1.2 For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
- 8.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

8.2 Method of measurement

Details see the KDB558074 D01 Meas Guidance

- 8.2.1 Place the EUT on the table and set it in transmitting mode.
- 8.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 8.2.3 Set the spectrum analyzer as RBW = 100kHz, VBW = 300kHz, span=5-30%EBW, detail see the test plot.
- 8.2.4 Record the max reading.
- 8.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

8.3 Test Setup



8.4 Test Results

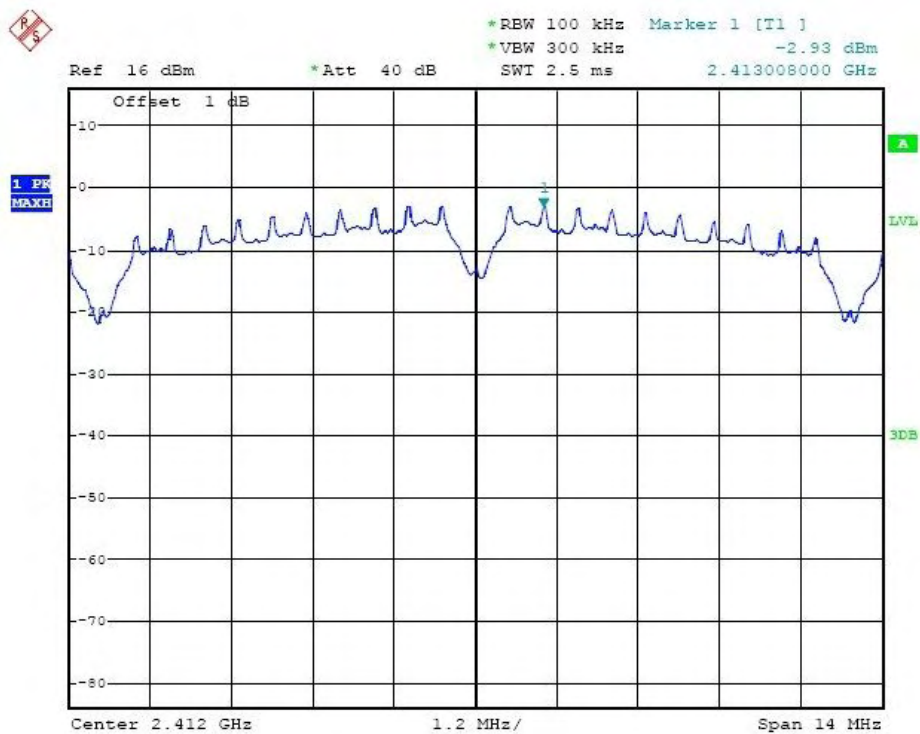
PASS.

Detailed information please see the following page.

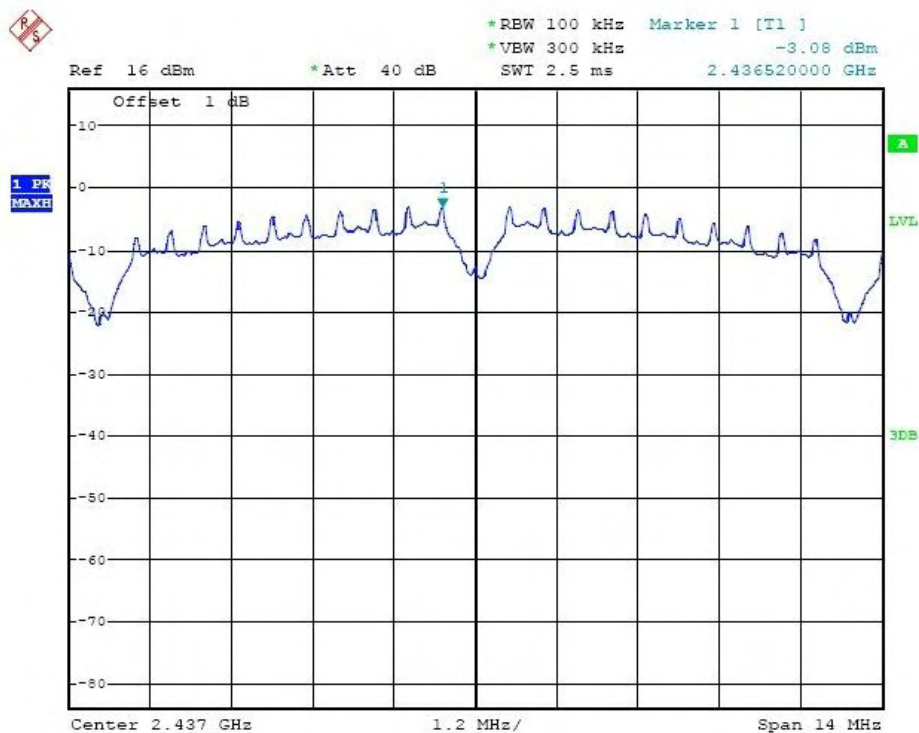
Channel	Frequency (MHz)	Power Spectral Density (dBm)	BCWF (dBm)	Final Power Spectral Density (dBm)	Limit (dBm)	Result
IEEE 802.11b:						
Mid	2412	-2.93	-15.2	-18.13	8	PASS
High	2437	-3.08	-15.2	-18.28	8	PASS
Low	2462	-3.20	-15.2	-18.40	8	PASS
IEEE 802.11g:						
Low	2412	-10.84	-15.2	-26.04	8	PASS
Mid	2437	-11.10	-15.2	-26.30	8	PASS
High	2462	-11.18	-15.2	-26.38	8	PASS
IEEE 802.11n/HT20:						
Low	2412	-10.79	-15.2	-25.99	8	PASS
Mid	2437	-11.10	-15.2	-26.30	8	PASS
High	2462	-11.13	-15.2	-26.33	8	PASS
IEEE 802.11n/HT40:						
Low	2422	-14.25	-15.2	-29.45	8	PASS
Mid	2437	-14.48	-15.2	-29.68	8	PASS
High	2452	-14.43	-15.2	-29.63	8	PASS
Note: BWCF = $10\log(3\text{ kHz}/100\text{ kHz}) = -15.2\text{ dB}$.						

IEEE 802.11b:

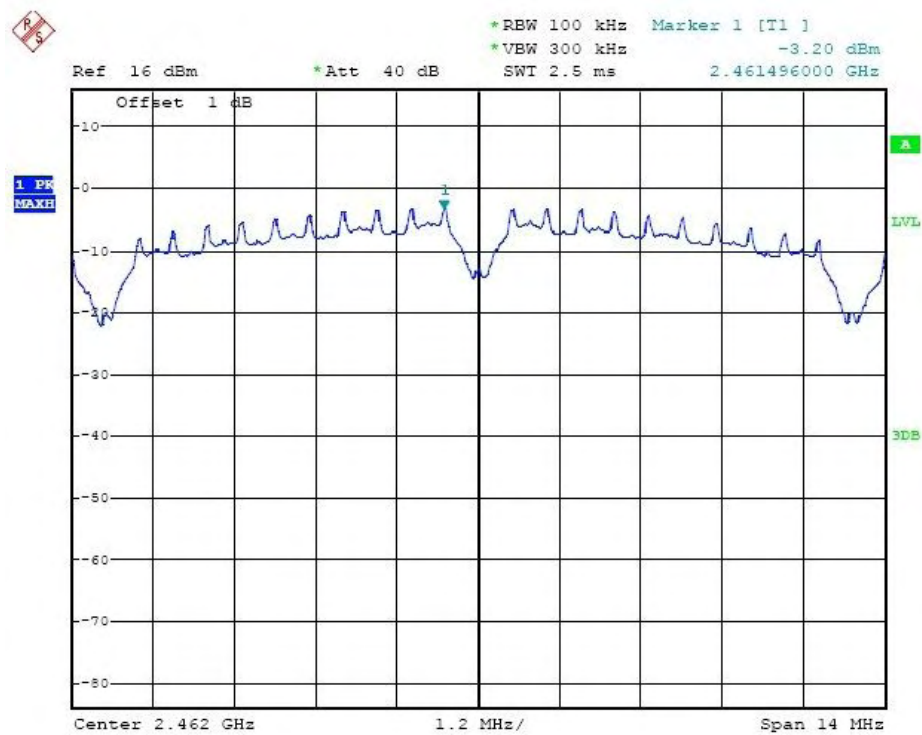
CH Low :



CH Mid :

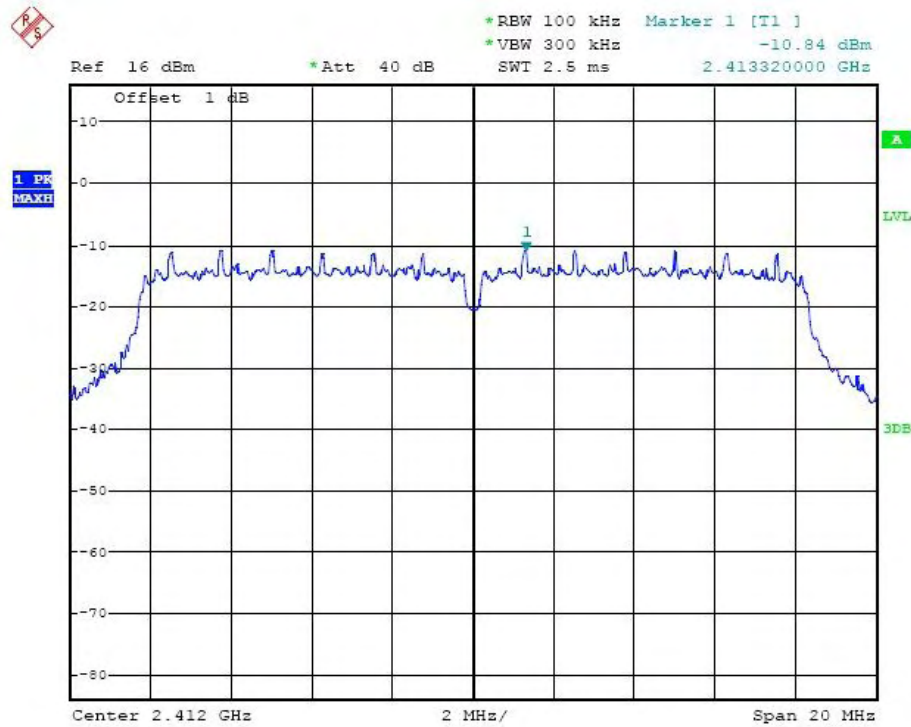


CH High :

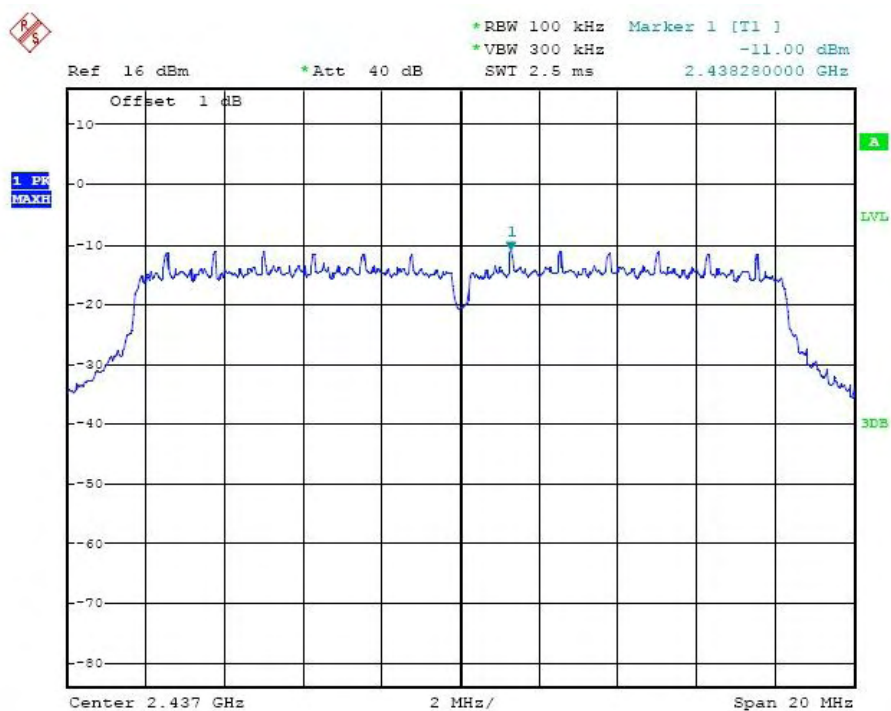


IEEE 802.11g:

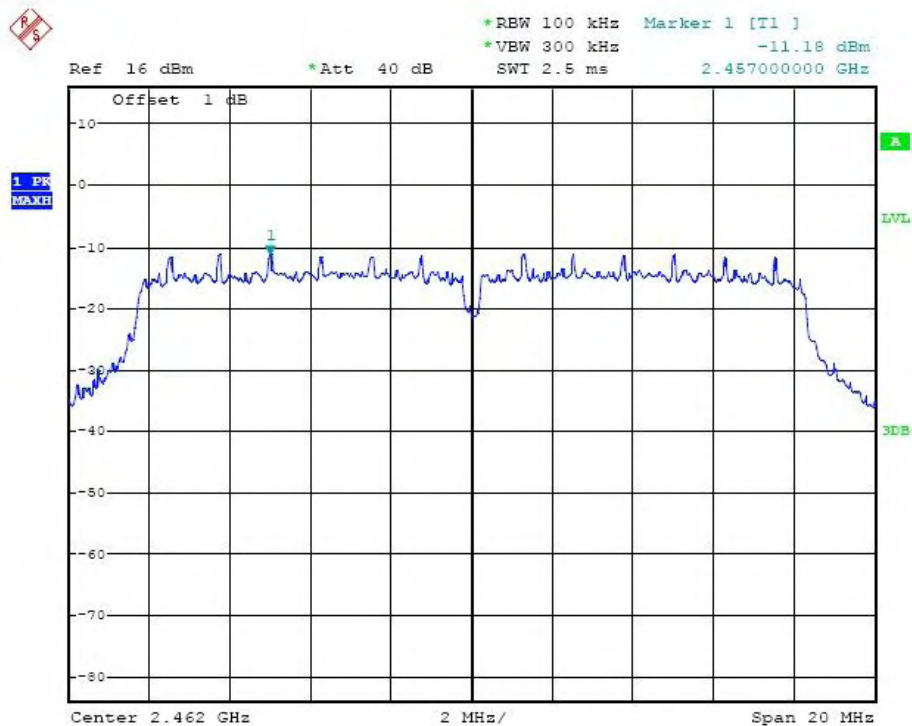
CH Low :



CH Mid :



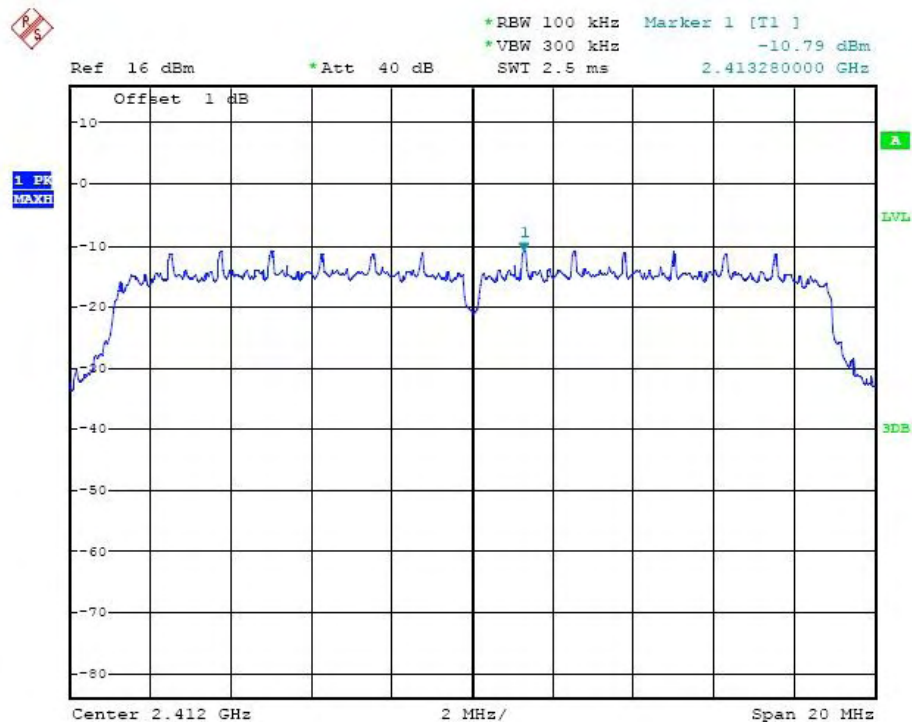
CH High :



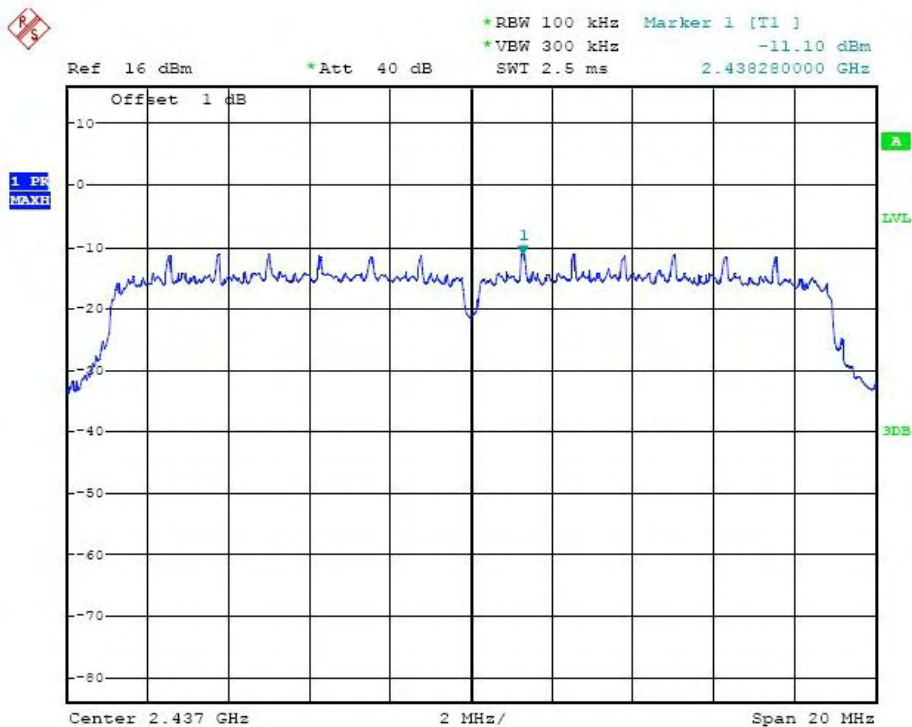
Report No.: STE120706872

IEEE 802.11n/HT20:

CH Low :



CH Mid :

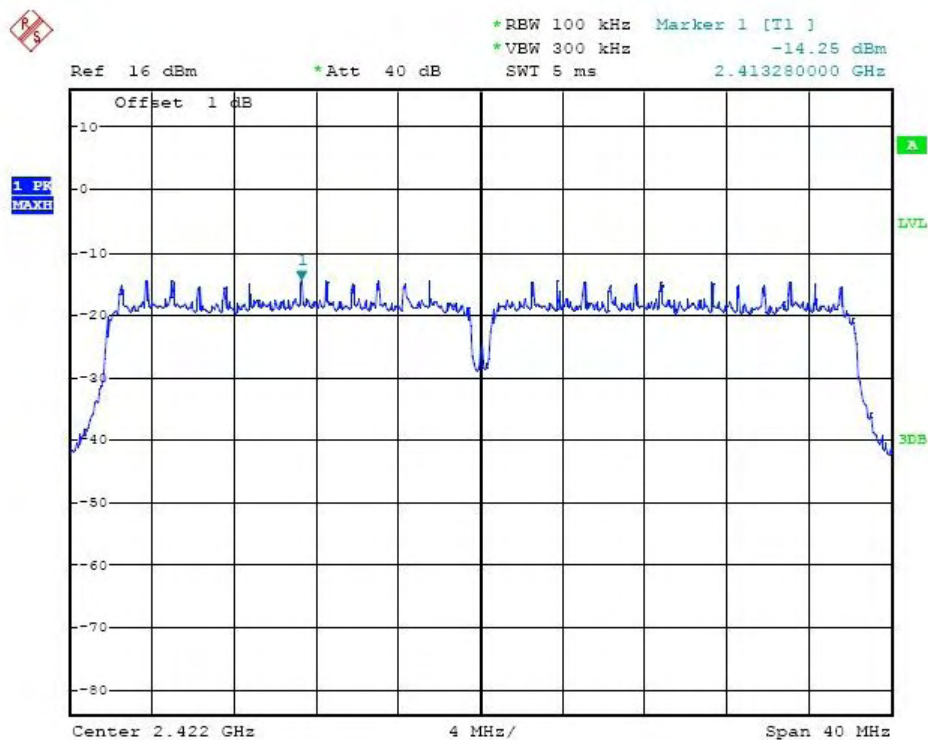


CH High :



IEEE 802.11n/HT40:

CH Low :



CH Mid :



CH High :



9 6dB Bandwidth

9.1 Test limit

Please refer section 15.247

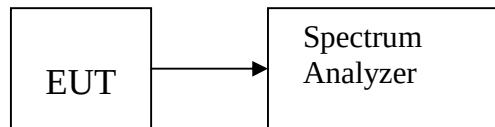
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

9.2 Method of measurement

Details see the KDB558074 D01 Meas Guidance

- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver set $RBW = 1-5 \% EBW$, $VBW \geq 3RBW$, Sweep time set auto, detail see the test plot.

9.3 Test Setup



9.4 Test Results

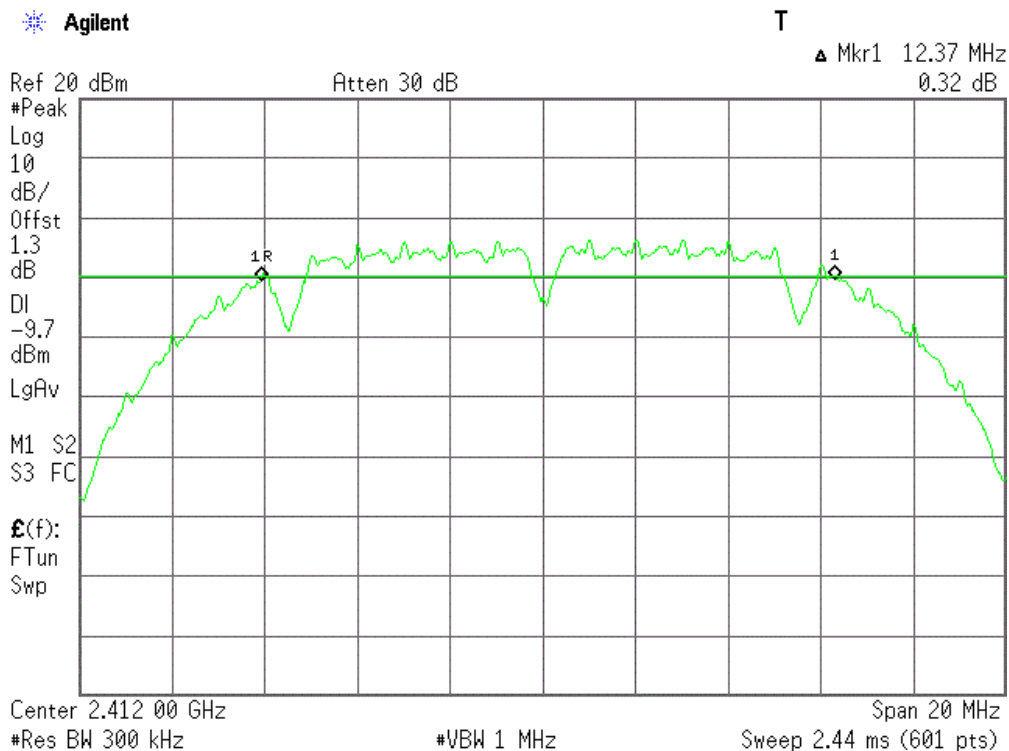
PASS.

Detailed information please see the following page.

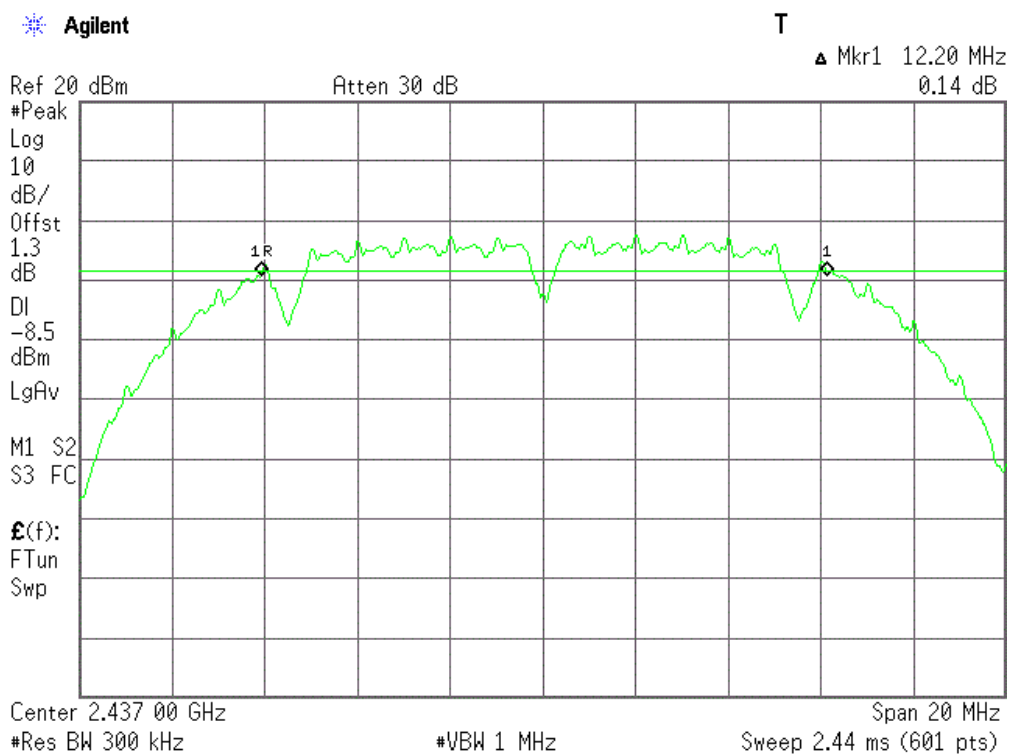
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b:				
Mid	2412	12.37	0.5	PASS
High	2437	12.20	0.5	PASS
Low	2462	12.20	0.5	PASS
IEEE 802.11g:				
Low	2412	16.60	0.5	PASS
Mid	2437	16.60	0.5	PASS
High	2462	16.60	0.5	PASS
IEEE 802.11n/HT20:				
Low	2412	17.73	0.5	PASS
Mid	2437	17.77	0.5	PASS
High	2462	17.77	0.5	PASS
IEEE 802.11n/HT40:				
Low	2422	36.40	0.5	PASS
Mid	2437	36.53	0.5	PASS
High	2452	36.53	0.5	PASS

IEEE 802.11b:

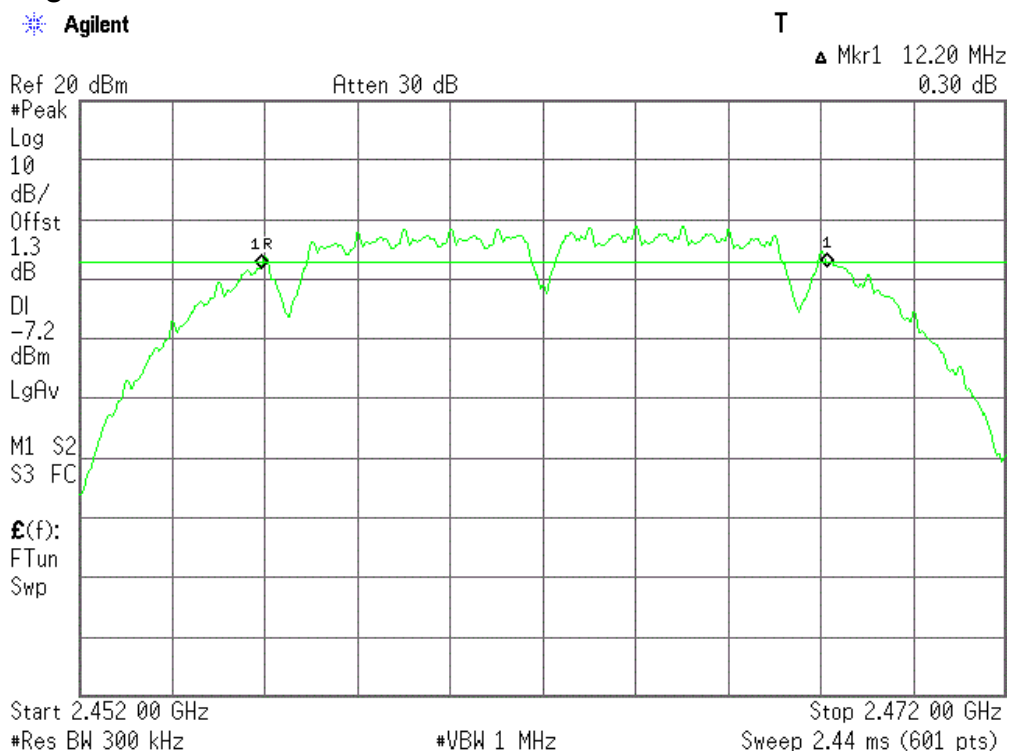
CH Low :



CH Mid :

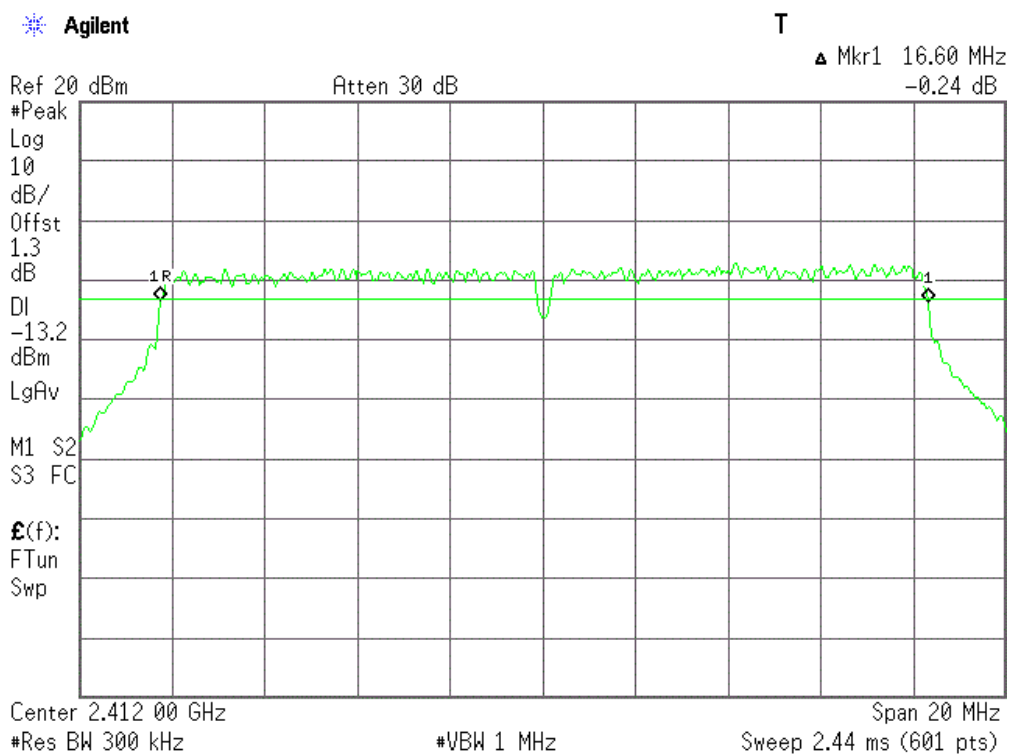


CH High :



IEEE 802.11g:

CH Low :

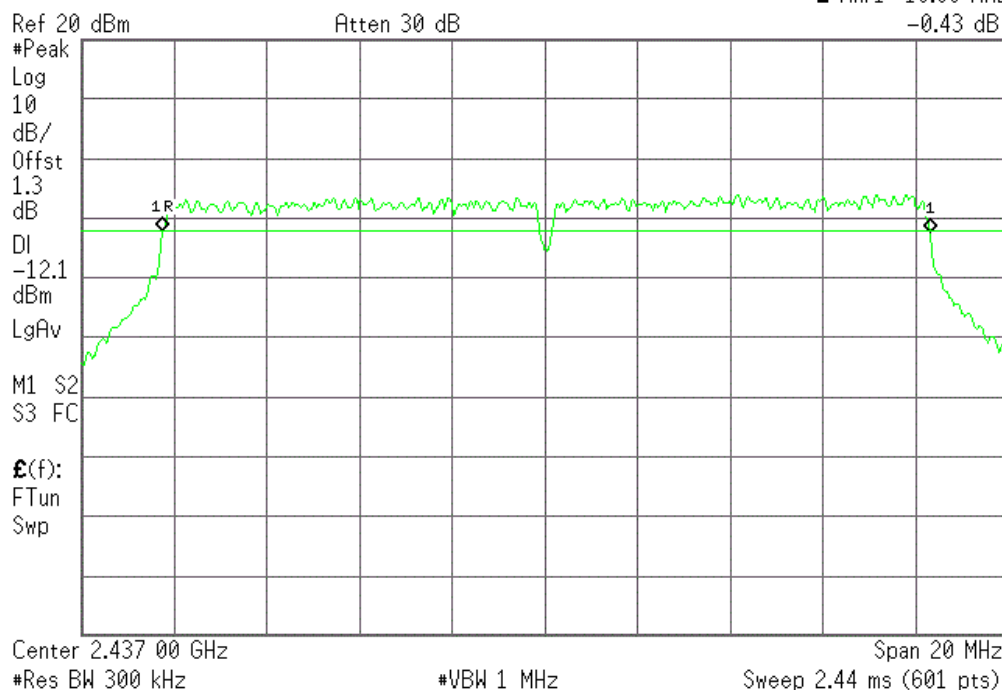


CH Mid :

Agilent

T

▲ Mkr1 16.60 MHz
-0.43 dB

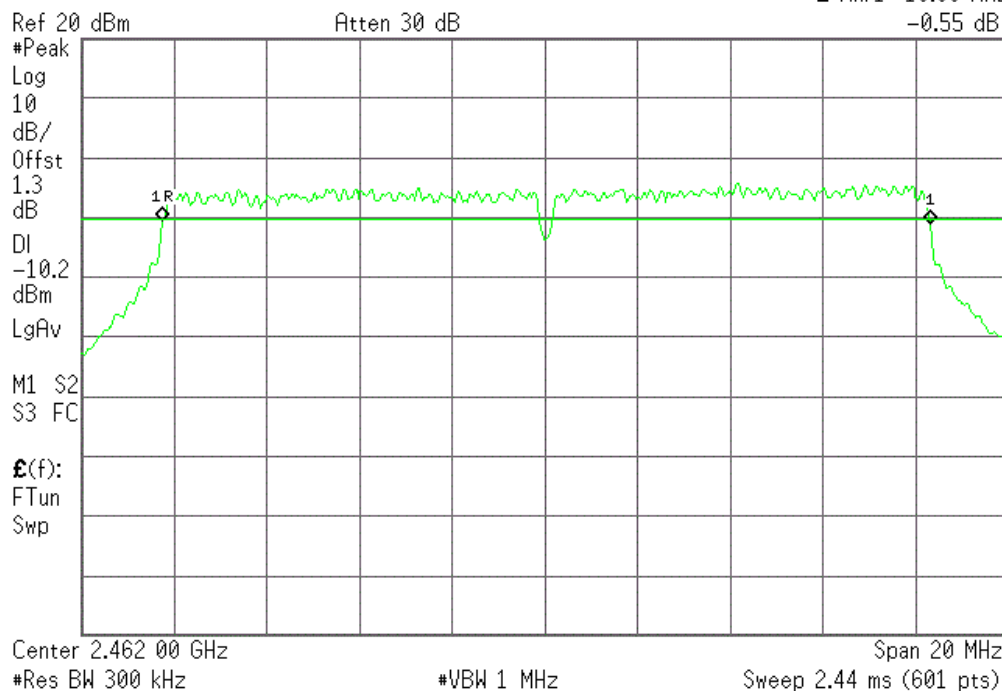


CH High :

Agilent

T

▲ Mkr1 16.60 MHz
-0.55 dB

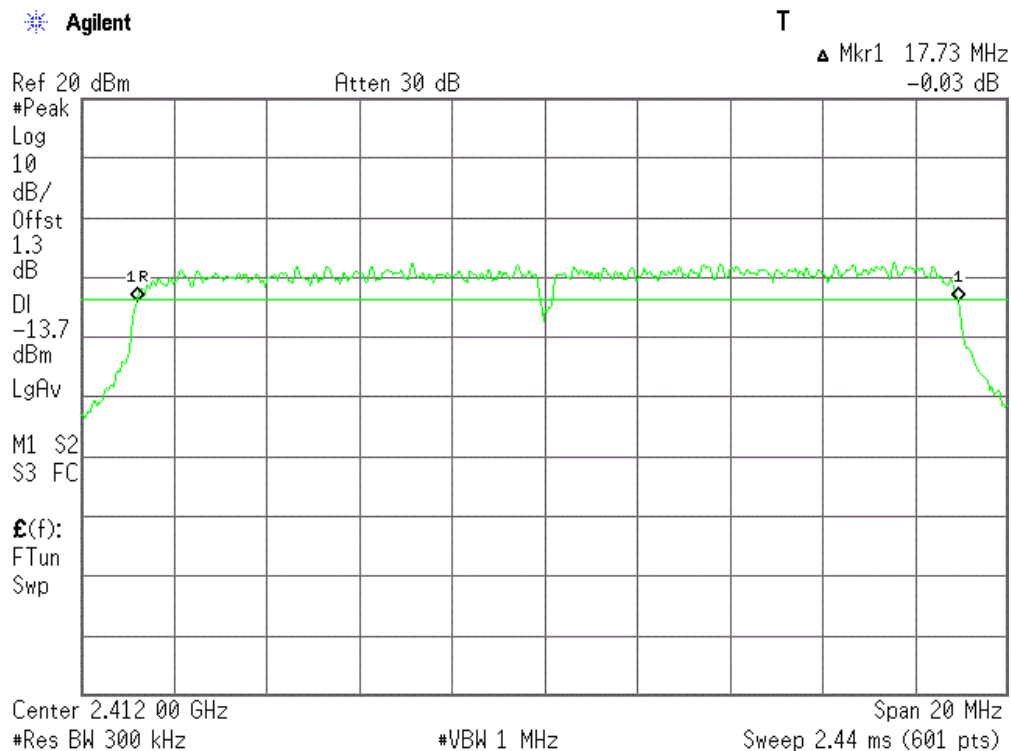


Report No.: STE120706872

IEEE 802.11n/HT20:

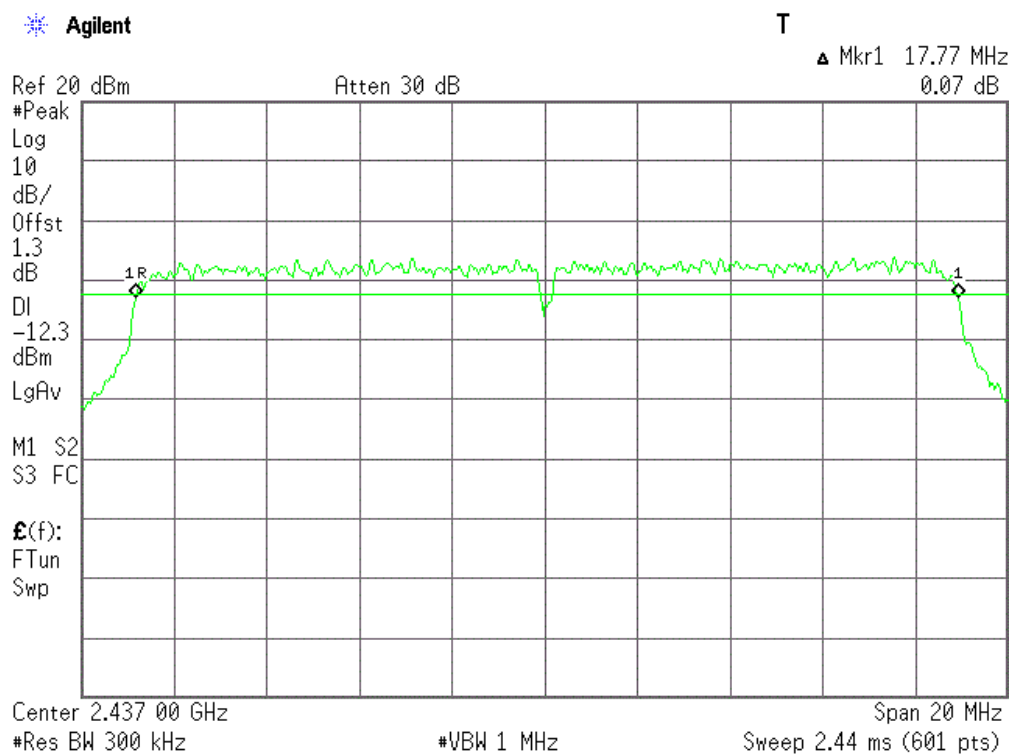
CH Low :

Agilent

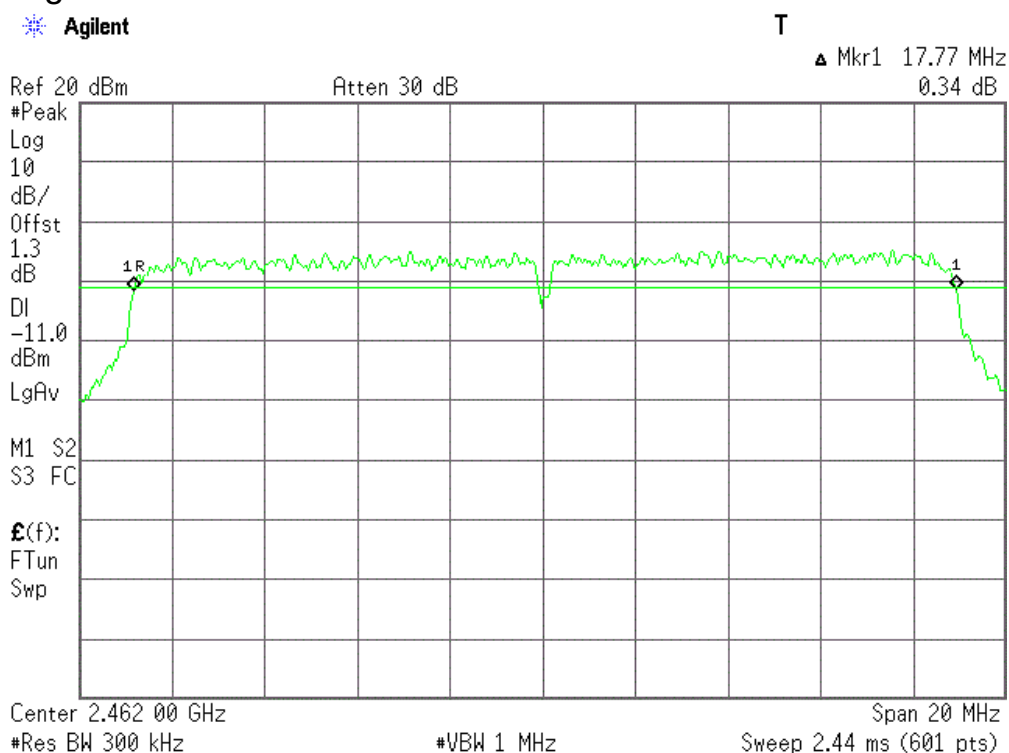


CH Mid :

Agilent

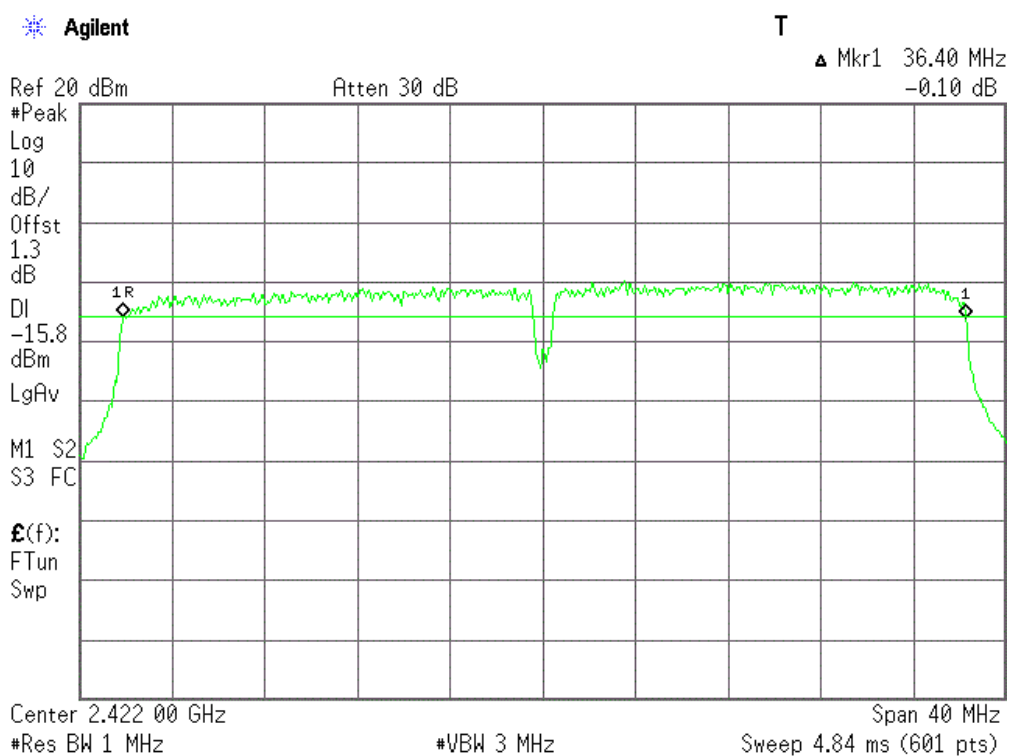


CH High :

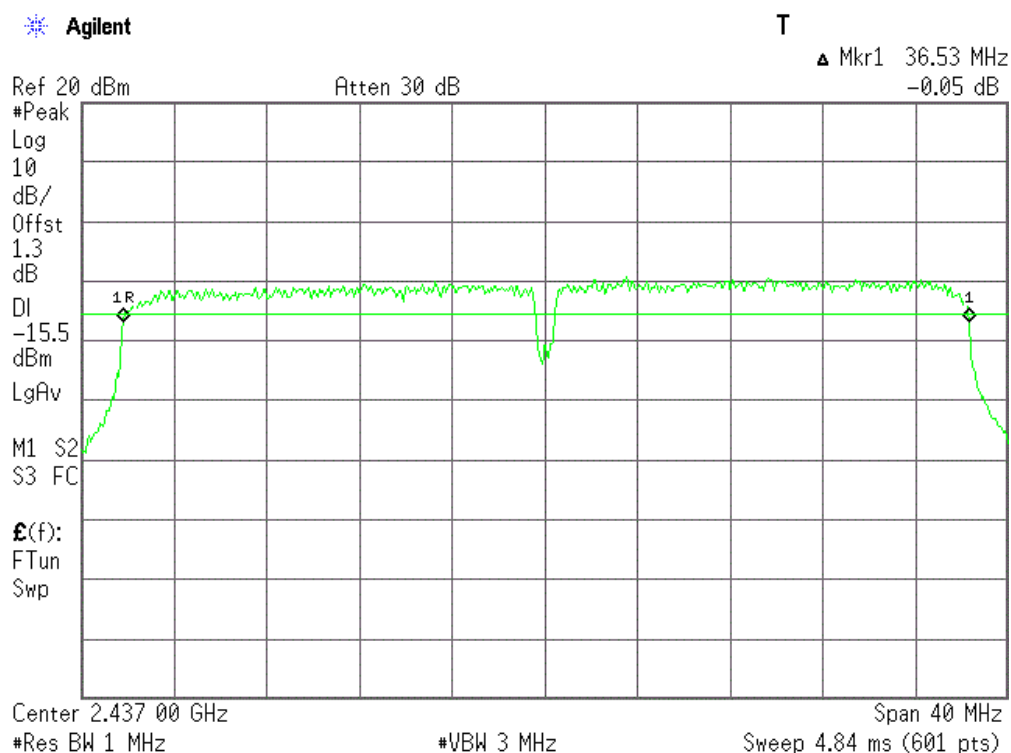


IEEE 802.11n/HT40:

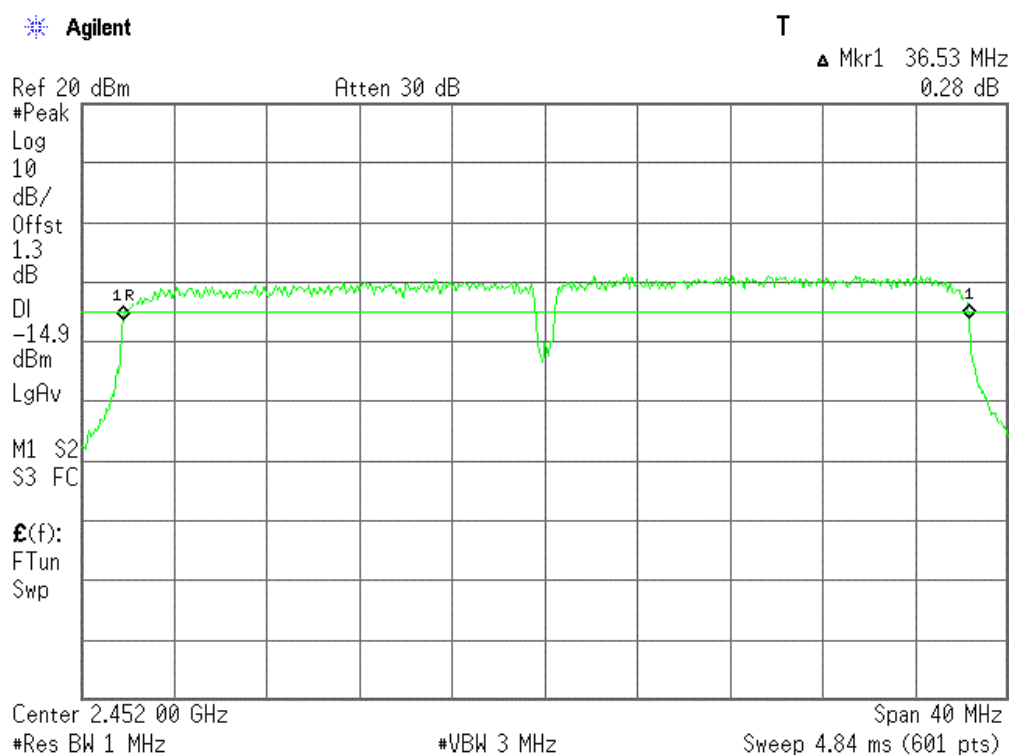
CH Low :



CH Mid :



CH High :



10 Band Edge Check

10.1 Test limit

Please refer section 15.247

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

10.2 Test Procedure

12.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

12.2.2 Check the spurious emissions out of band.

12.2.3 RBW,VBW Setting, please see the following test plot.

10.3 Test Setup

Same as 5.2.2.

10.4 Test Result

PASS.

Detailed information please see the following page.

IEEE 802.11b:

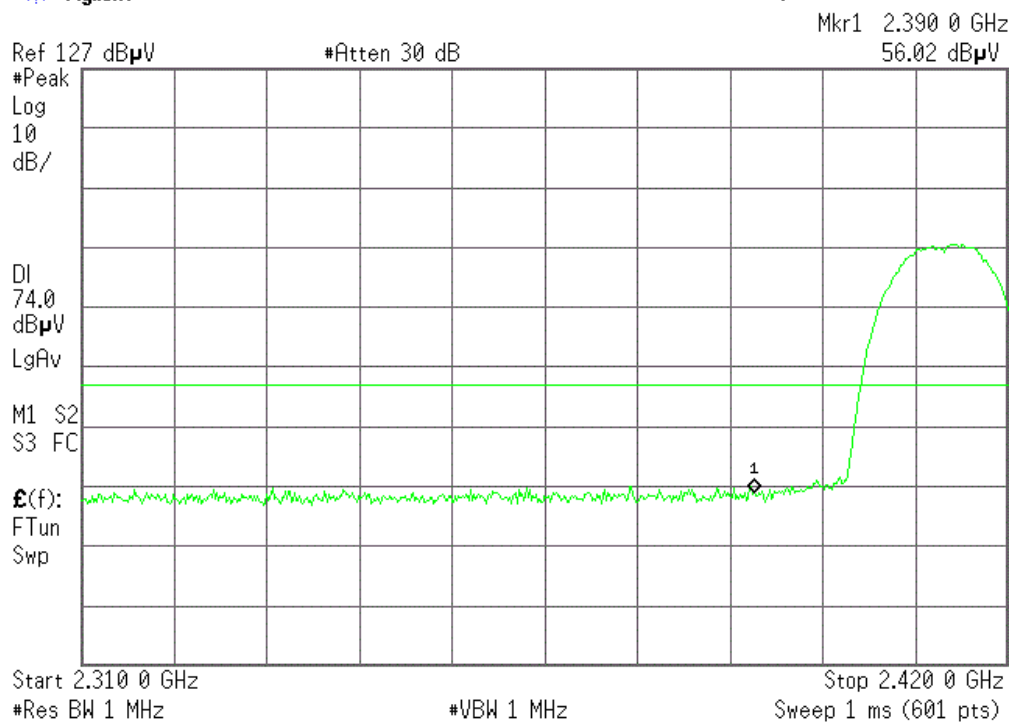
CH LOW :

Detector mode: Peak

Polarity: Horizontal

Agilent

T

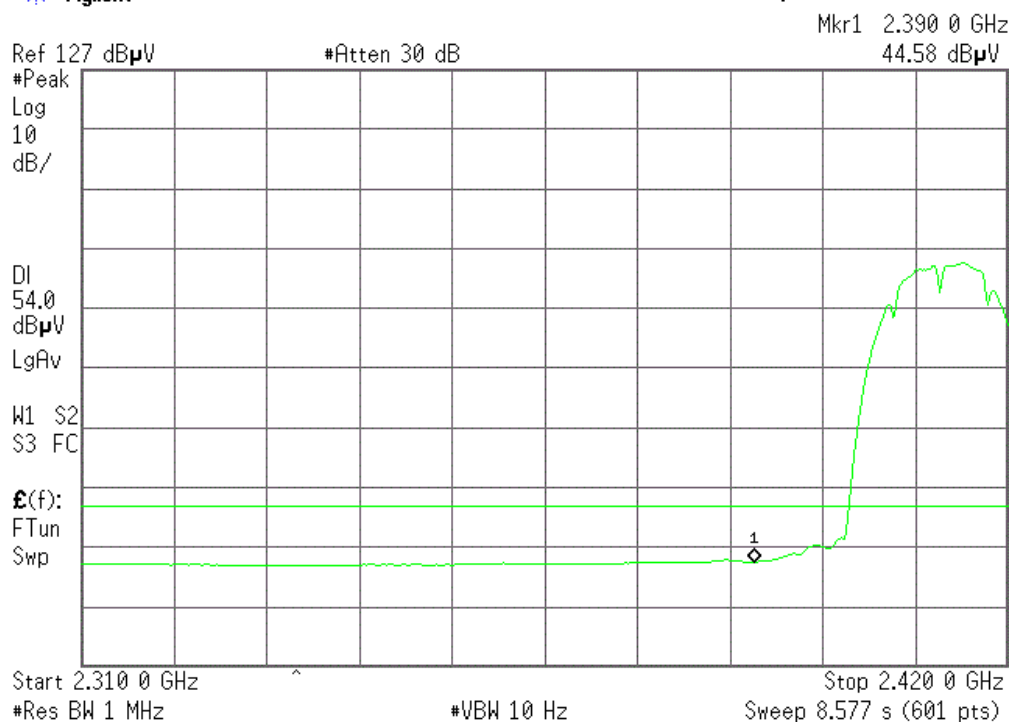


Detector mode: Average

Polarity: Horizontal

Agilent

T



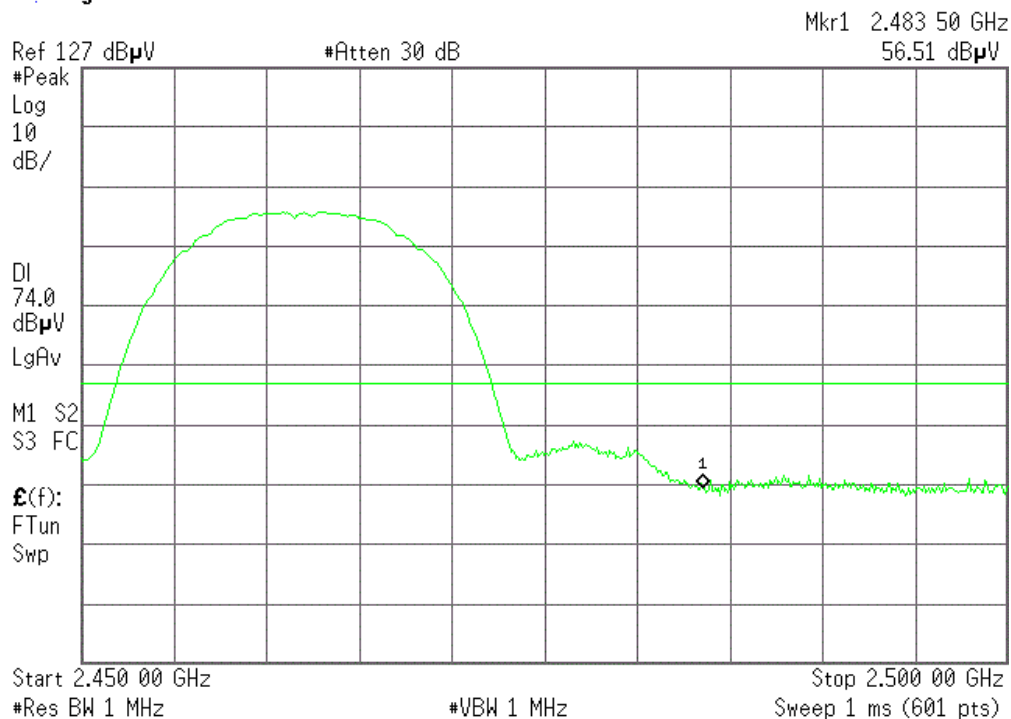
CH High :

Detector mode: Peak

Agilent

Polarity: Horizontal

T

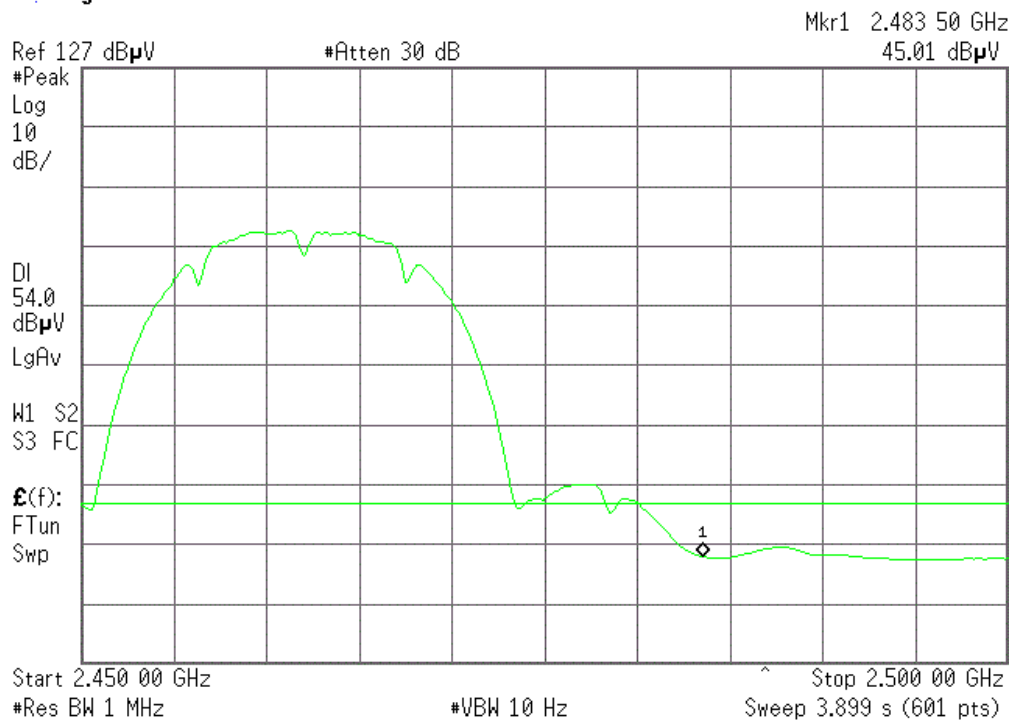


Detector mode: Average

Agilent

Polarity: Horizontal

T



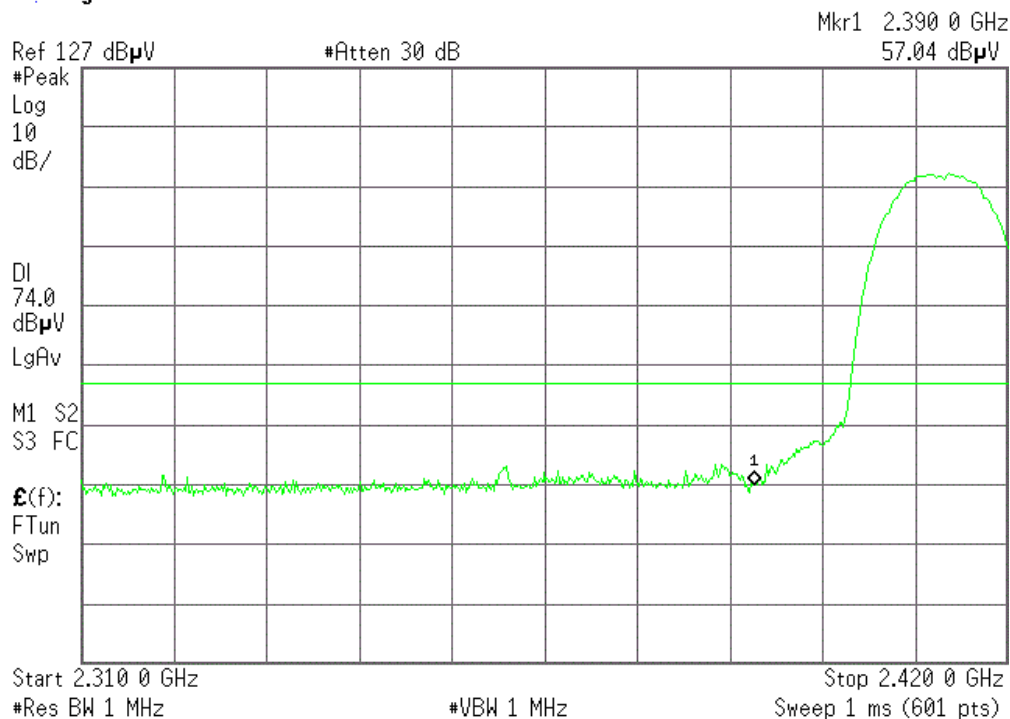
CH LOW :

Detector mode: Peak

Agilent

Polarity: Vertical

R T

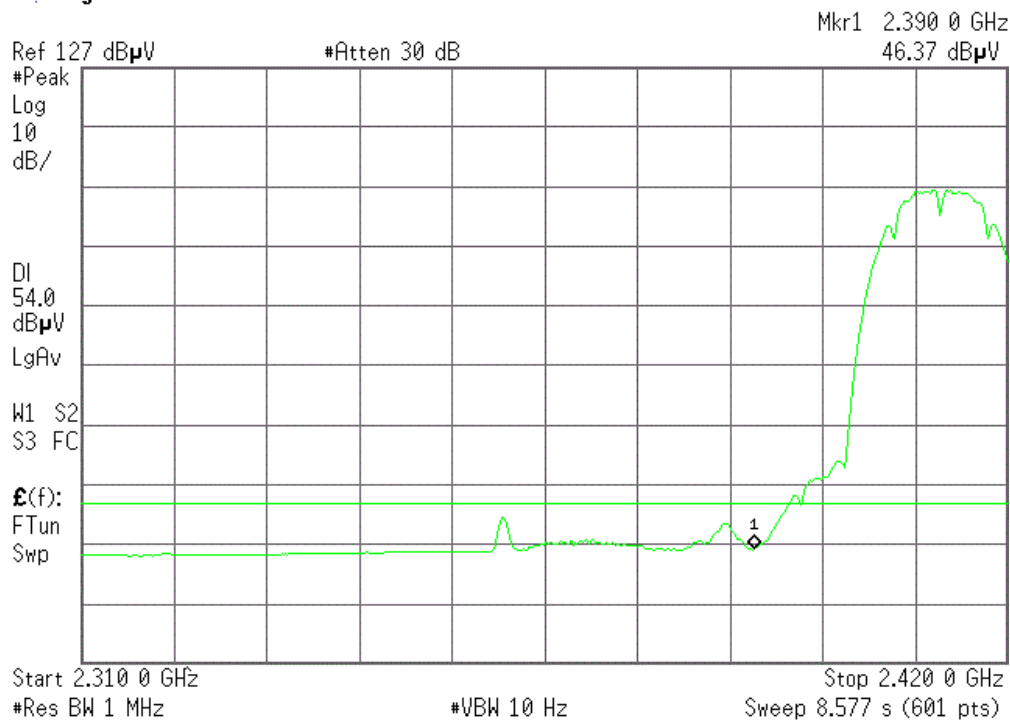


Detector mode: Average

Agilent

Polarity: Vertical

R T



CH High :

Detector mode: Peak

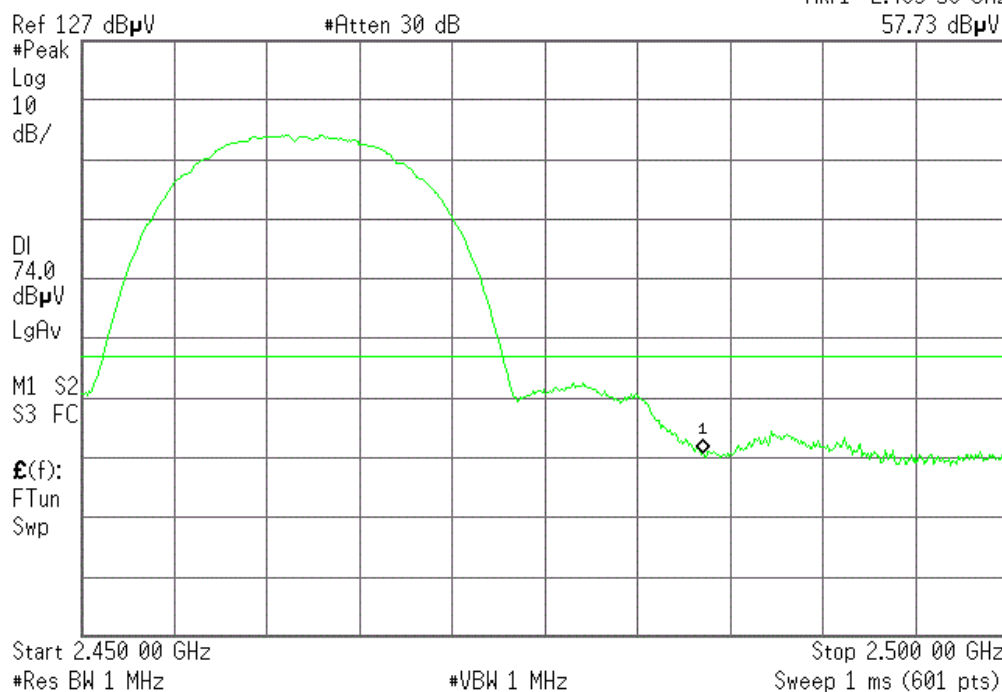
Agilent

Polarity: Vertical

R T

Mkr1 2.483 50 GHz

57.73 dBμV



Detector mode: Average

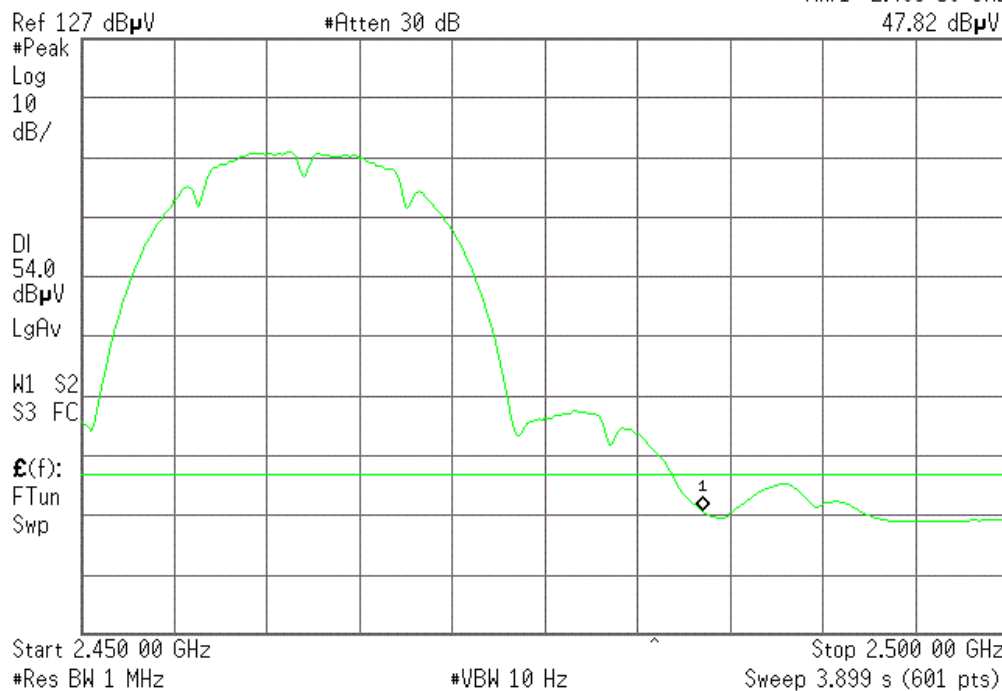
Agilent

Polarity: Vertical

R T

Mkr1 2.483 50 GHz

47.82 dBμV



IEEE 802.11g:

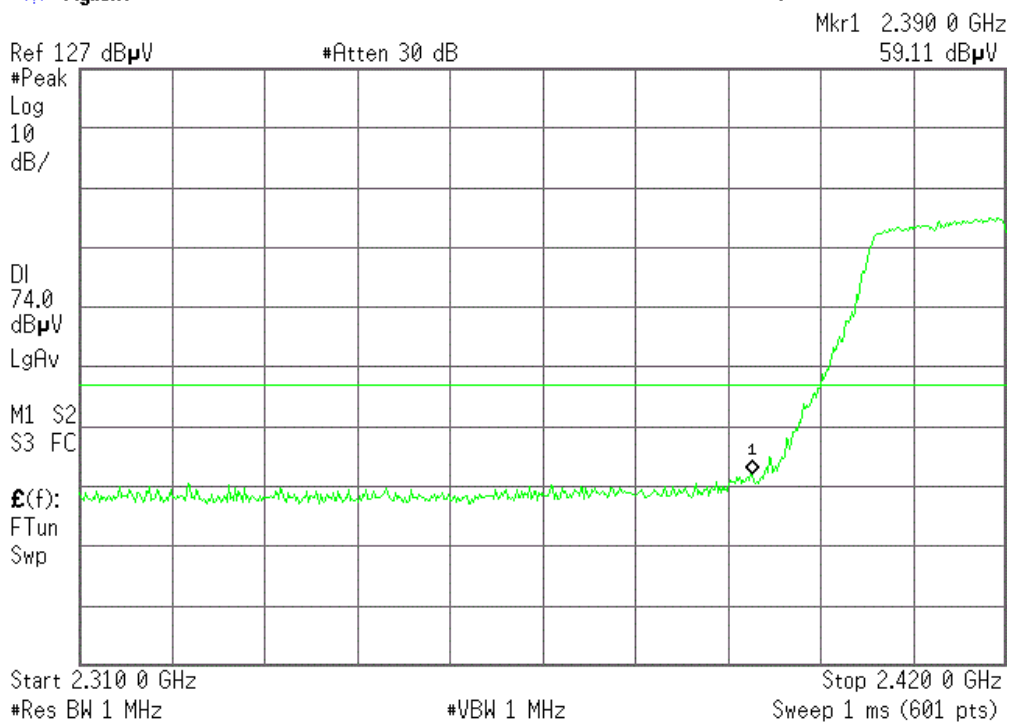
CH LOW :

Detector mode: Peak

Agilent

Polarity: Horizontal

T

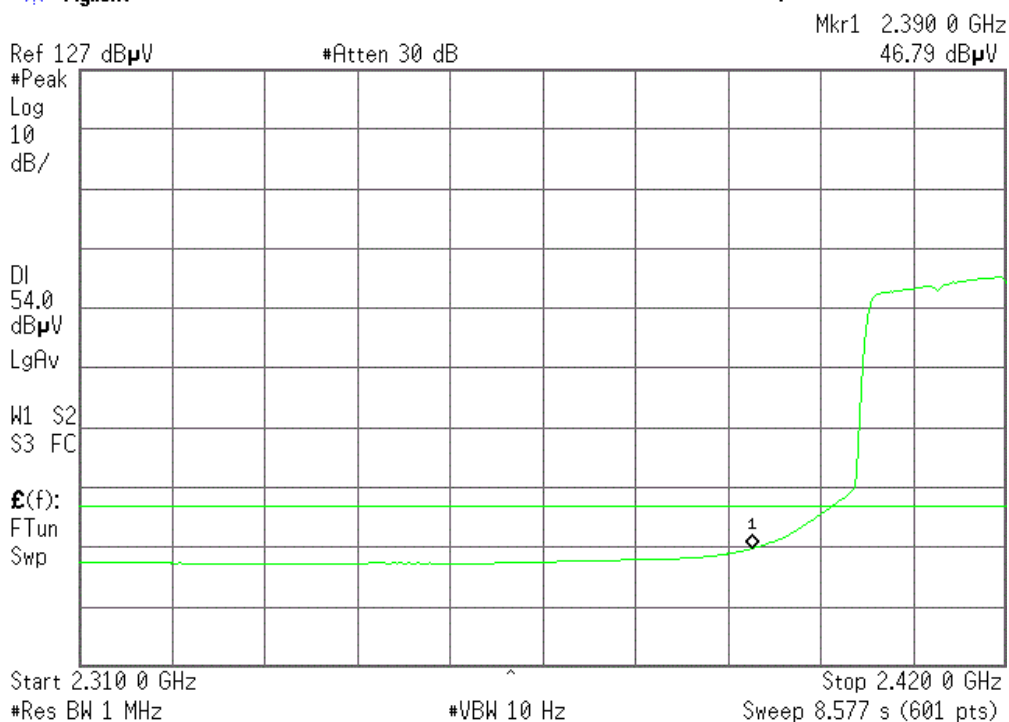


Detector mode: Average

Agilent

Polarity: Horizontal

T



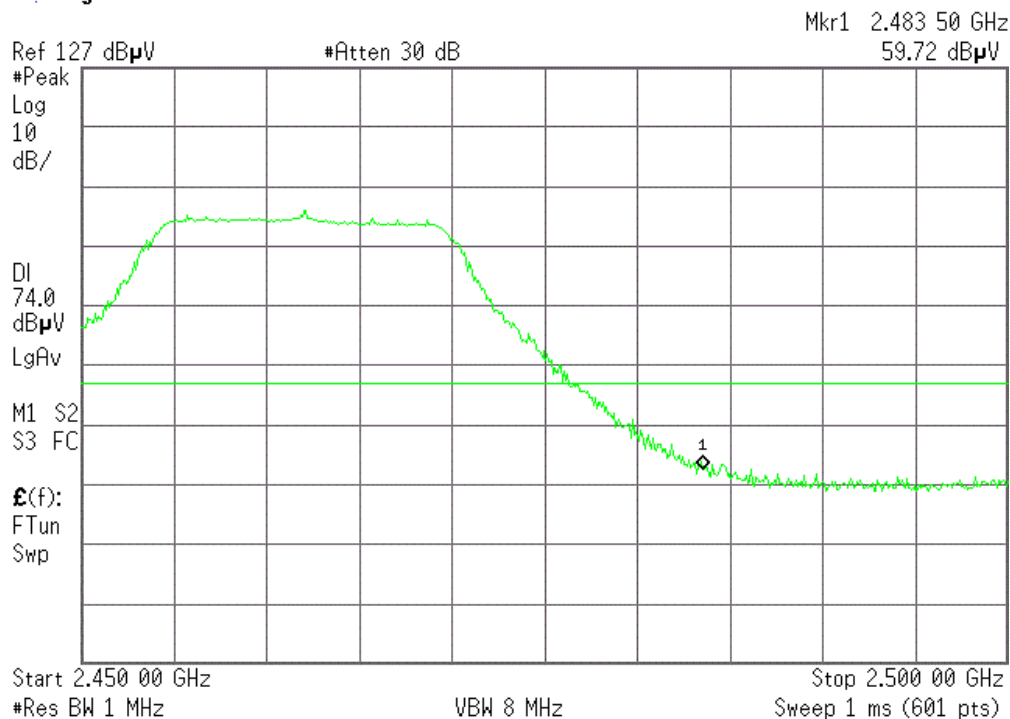
CH High :

Detector mode: Peak

Agilent

Polarity: Horizontal

T

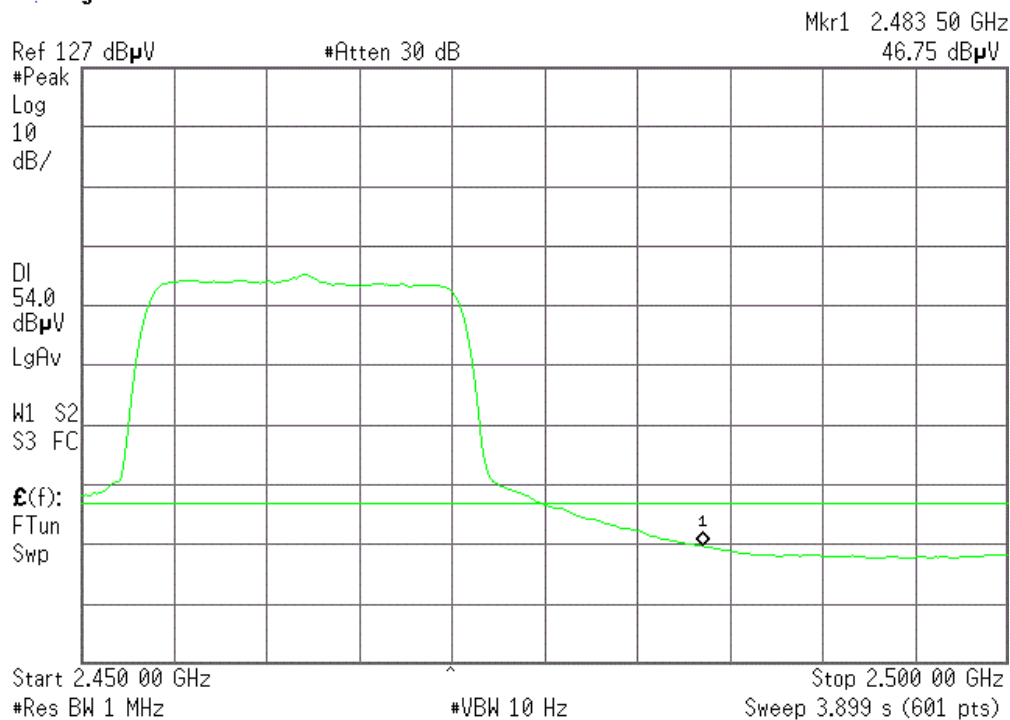


Detector mode: Average

Agilent

Polarity: Horizontal

T



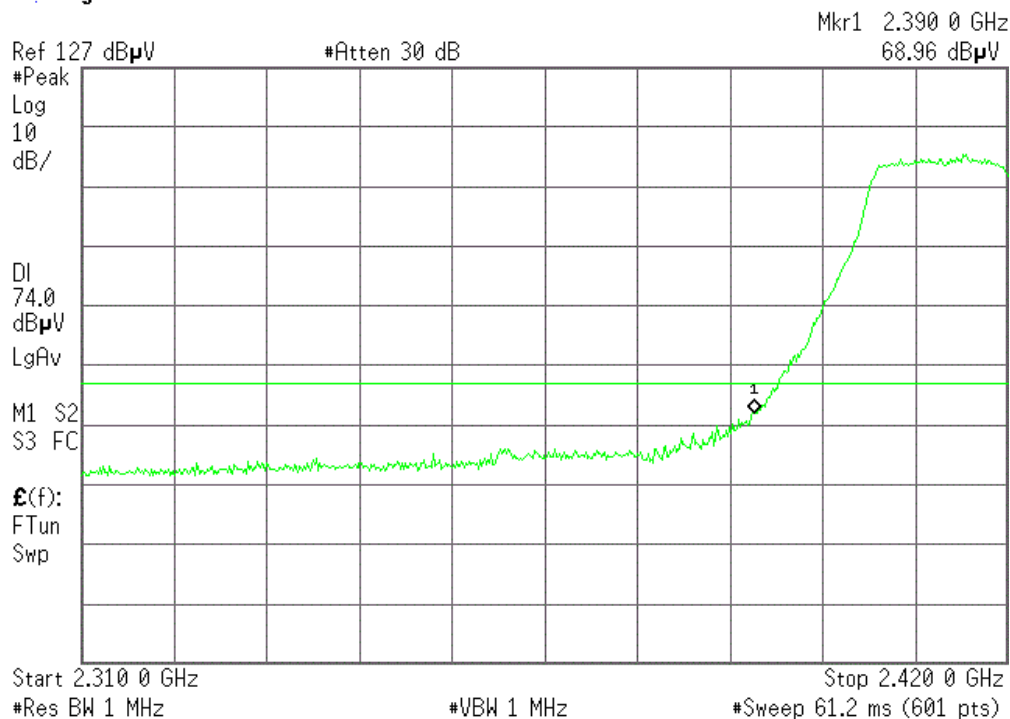
CH LOW :

Detector mode: Peak

Agilent

Polarity: Vertical

R T

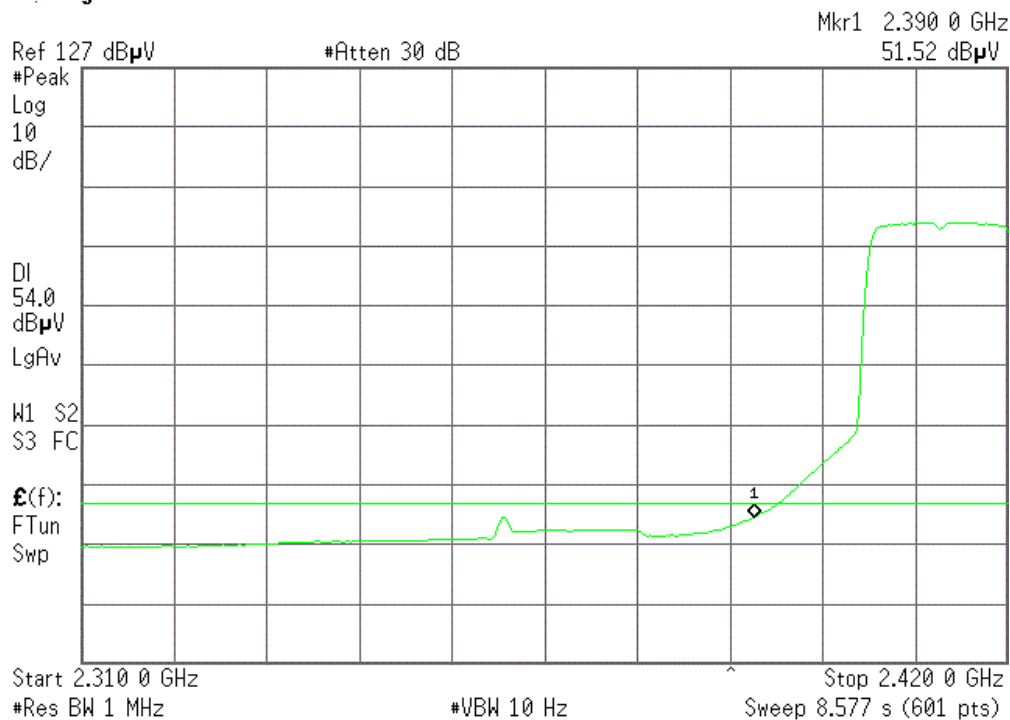


Detector mode: Average

Agilent

Polarity: Vertical

R T



CH High :

Detector mode: Peak

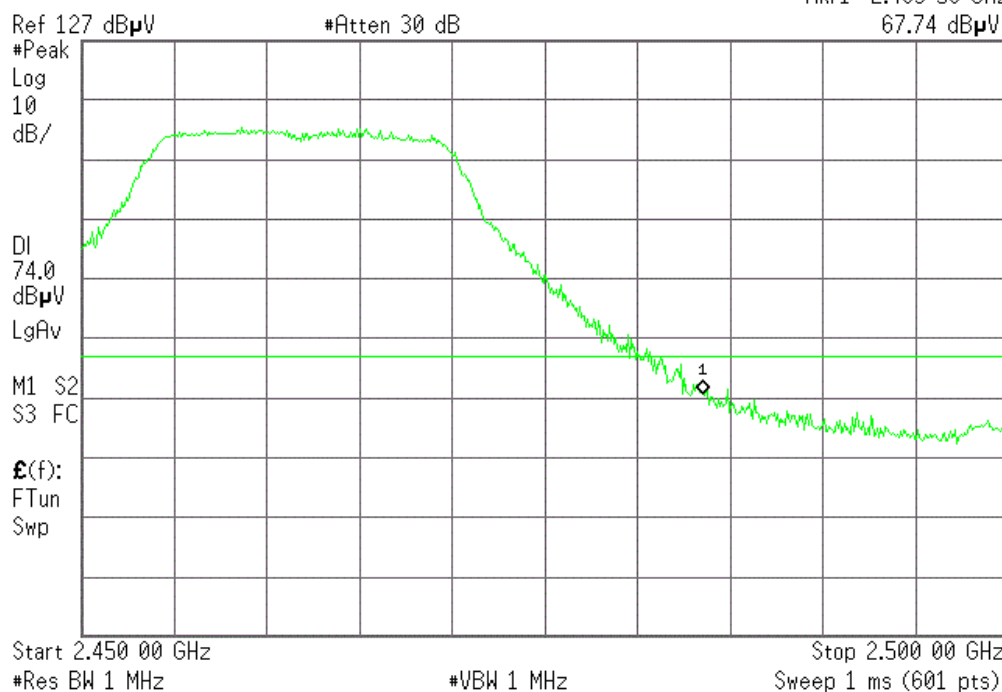
Agilent

Polarity: Vertical

R T

Mkr1 2.483 50 GHz

67.74 dBμV



Detector mode: Average

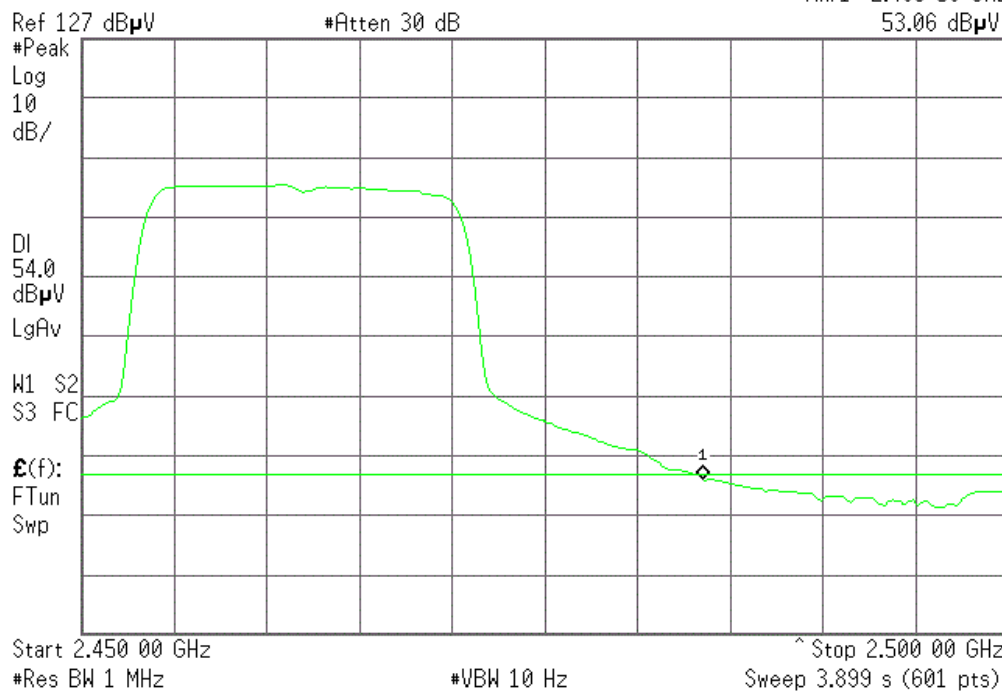
Agilent

Polarity: Vertical

R T

Mkr1 2.483 50 GHz

53.06 dBμV



Report No.: STE120706872

IEEE 802.11n/HT20:

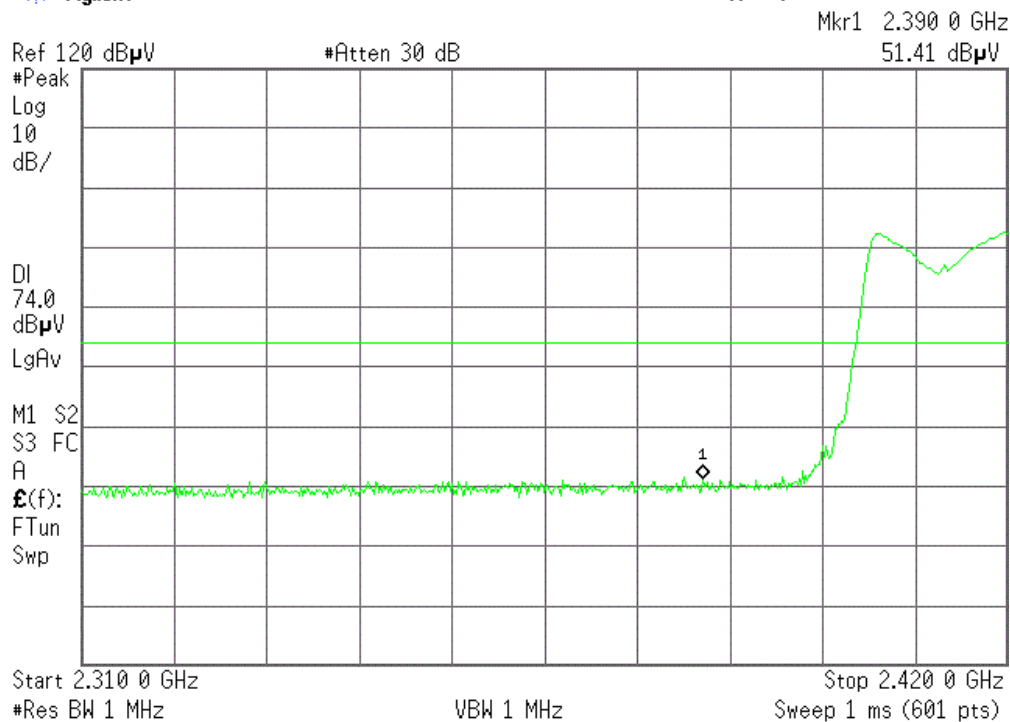
CH LOW :

Detector mode: Peak

Agilent

Polarity: Horizontal

R T

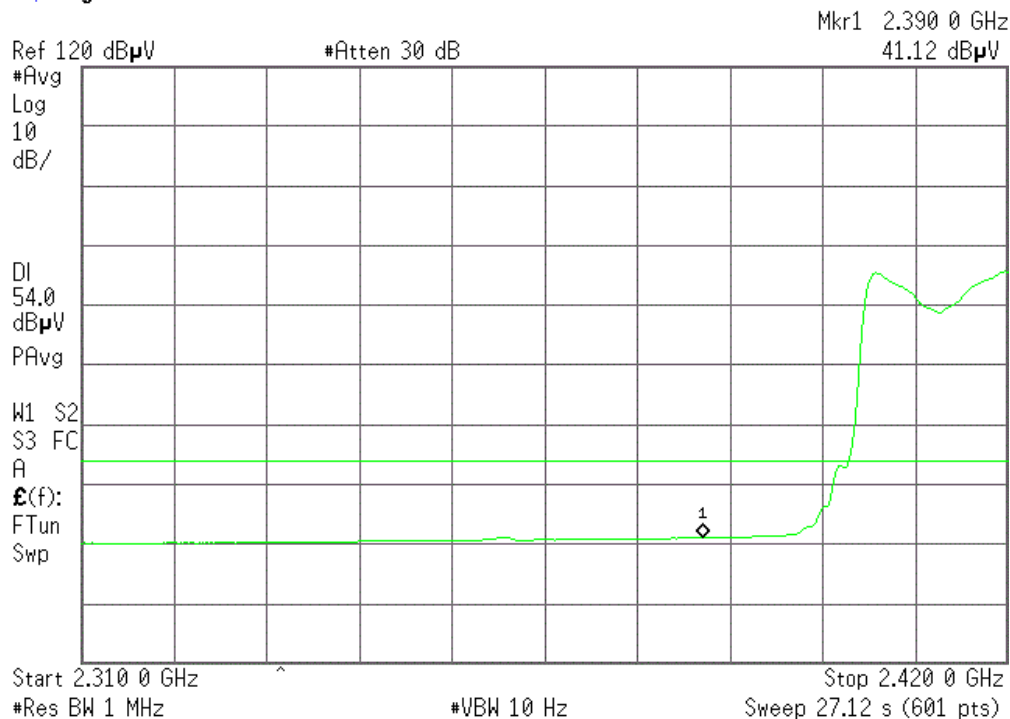


Detector mode: Average

Agilent

Polarity: Horizontal

R T



CH High :

Detector mode: Peak

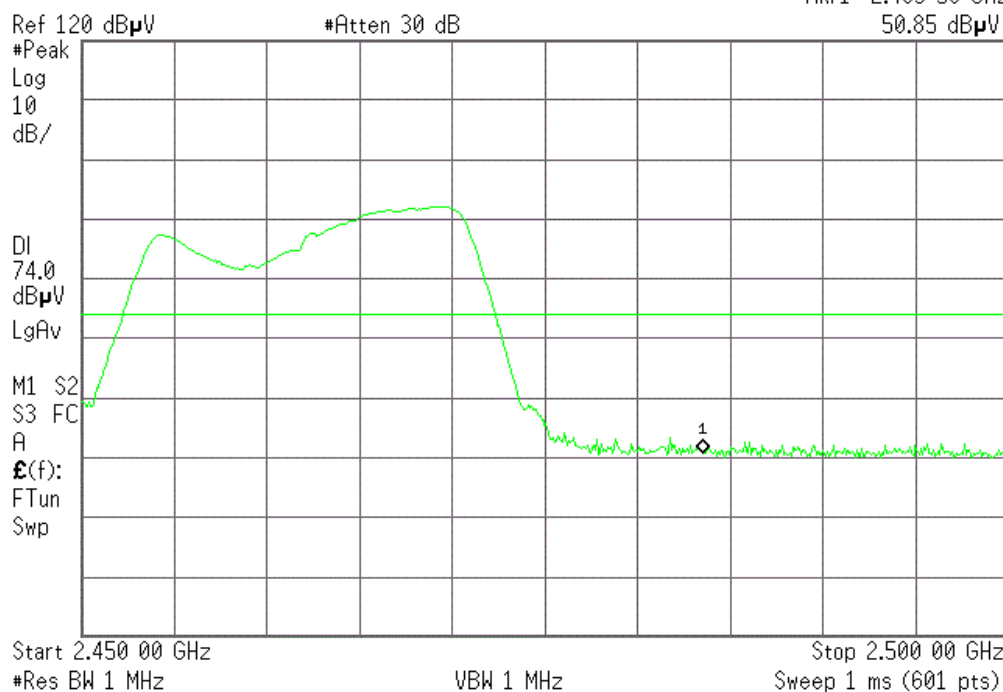
Agilent

Polarity: Horizontal

R T

Mkr1 2.483 50 GHz

50.85 dB μ V



Detector mode: Average

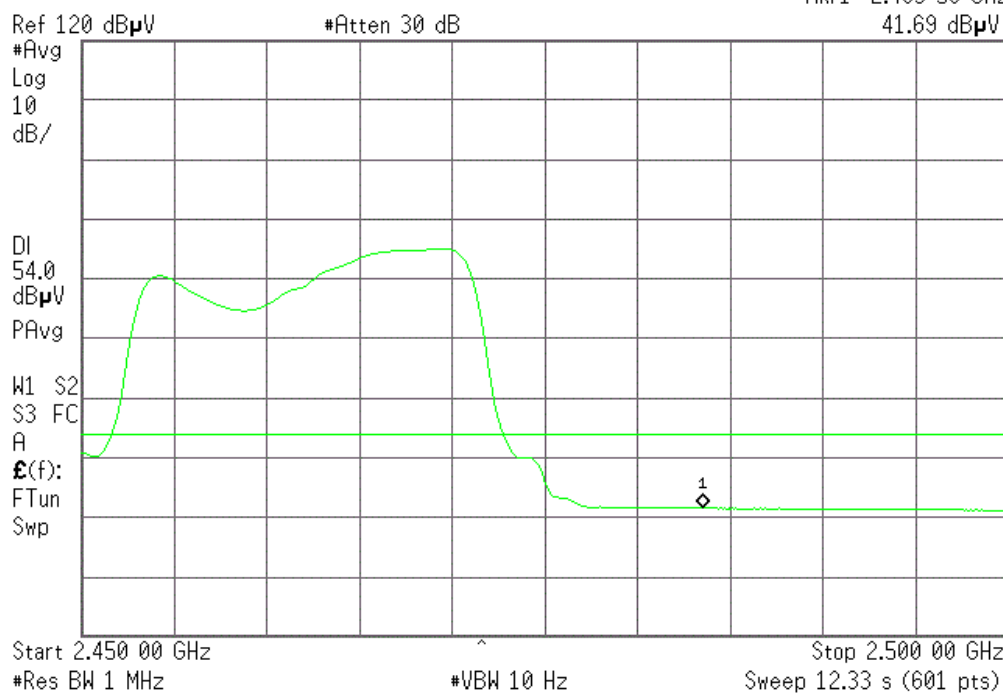
Agilent

Polarity: Horizontal

R T

Mkr1 2.483 50 GHz

41.69 dB μ V



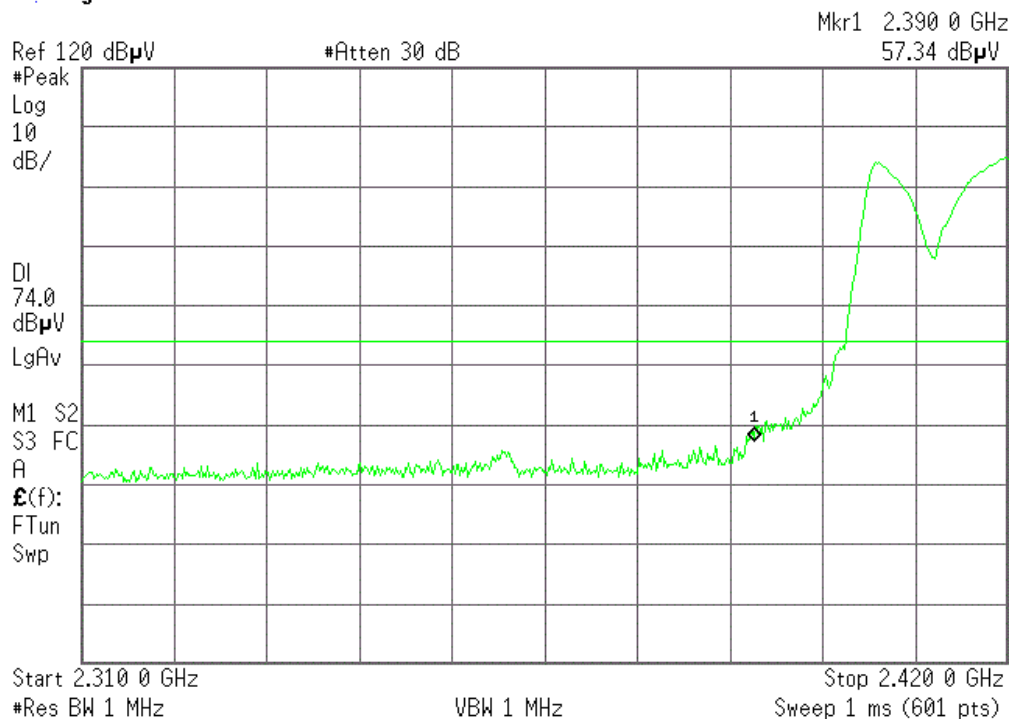
CH LOW :

Detector mode: Peak

Agilent

Polarity: Vertical

R T

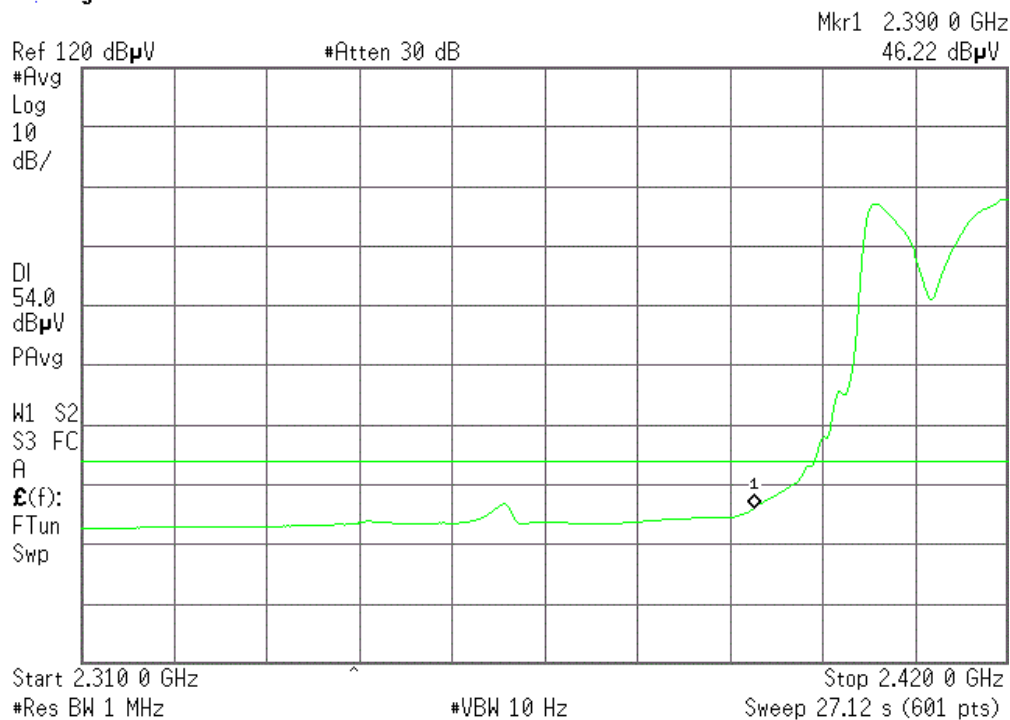


Detector mode: Average

Agilent

Polarity: Vertical

R T



CH High :

Detector mode: Peak

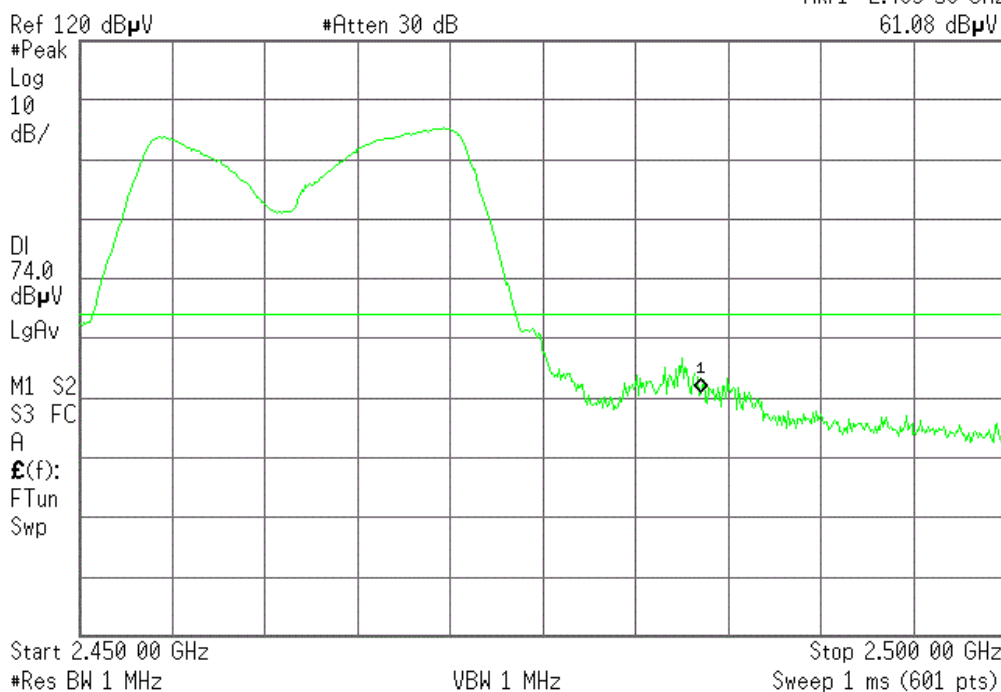
Agilent

Polarity: Vertical

R T

Mkr1 2.483 50 GHz

61.08 dBμV



Detector mode: Average

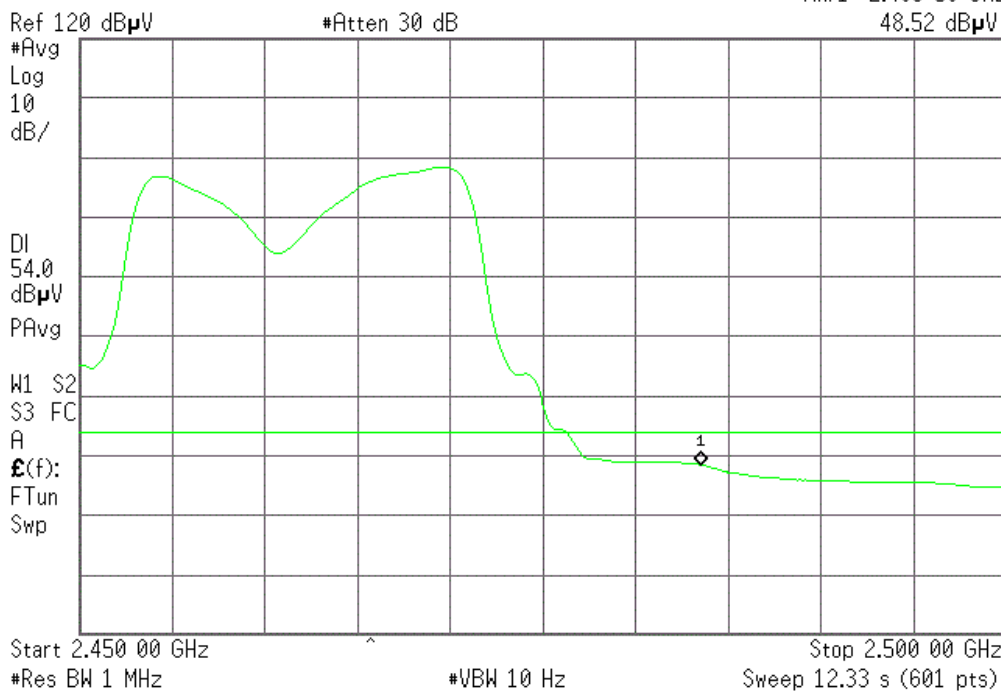
Agilent

Polarity: Vertical

R T

Mkr1 2.483 50 GHz

48.52 dBμV



Report No.: STE120706872

IEEE 802.11n/HT40:

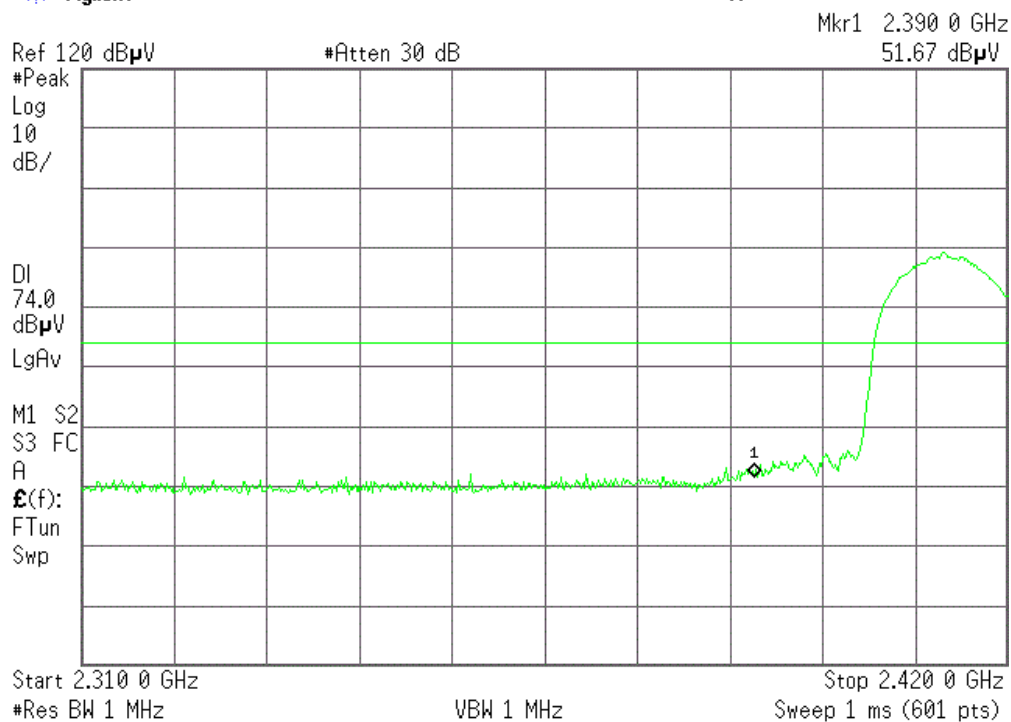
CH LOW :

Detector mode: Peak

Polarity: Horizontal

Agilent

R

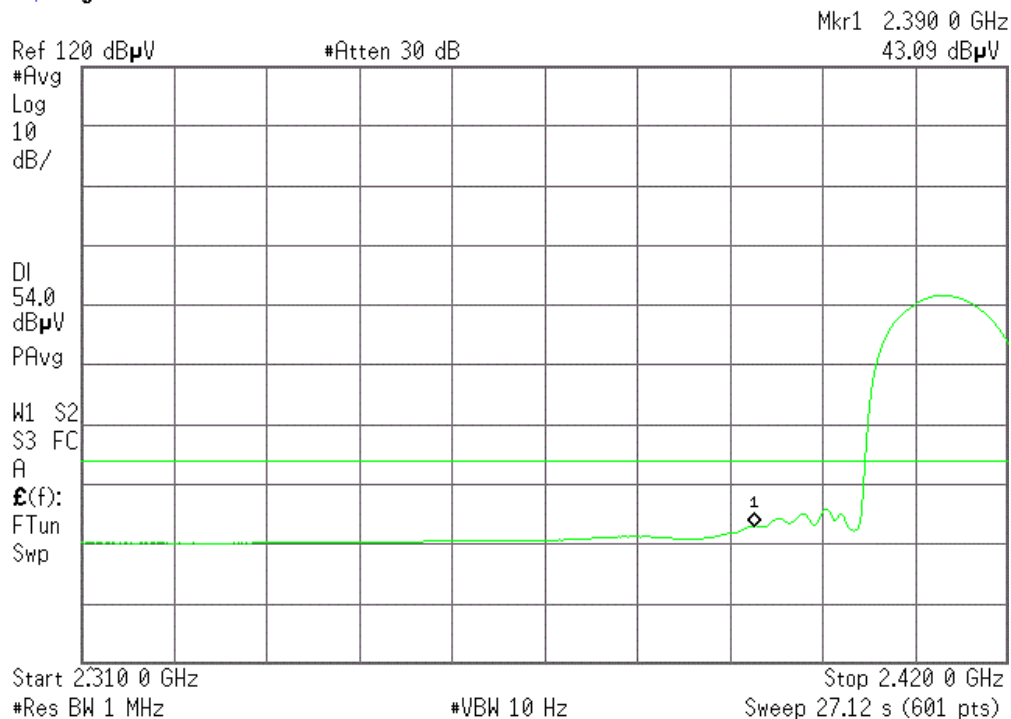


Detector mode: Average

Polarity: Horizontal

Agilent

R T



CH High :

Detector mode: Peak

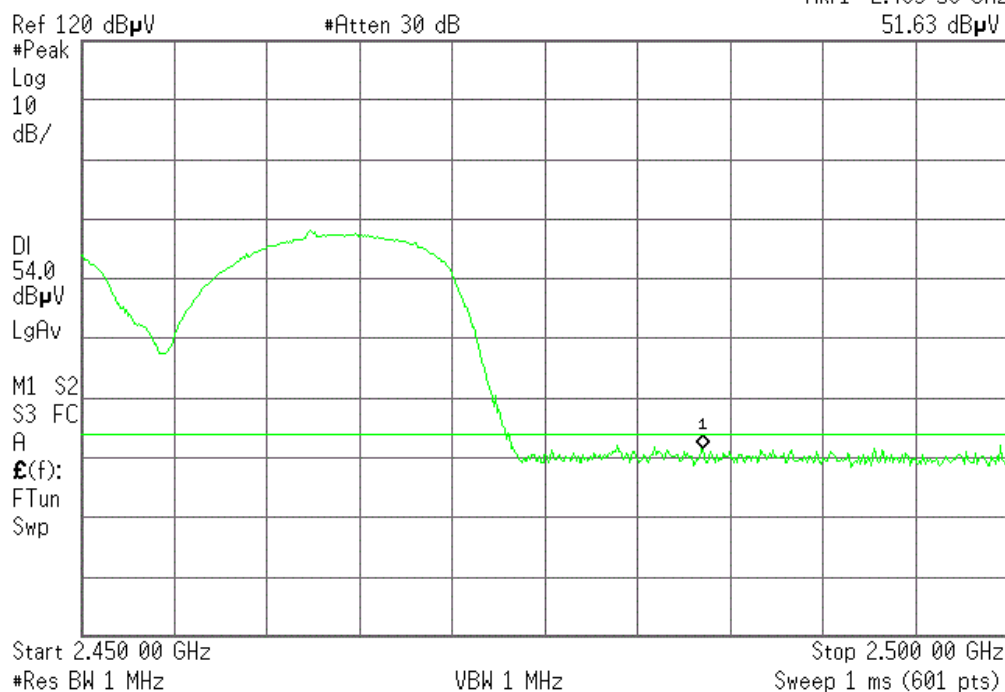
Agilent

Polarity: Horizontal

R T

Mkr1 2.483 50 GHz

51.63 dBμV



Detector mode: Average

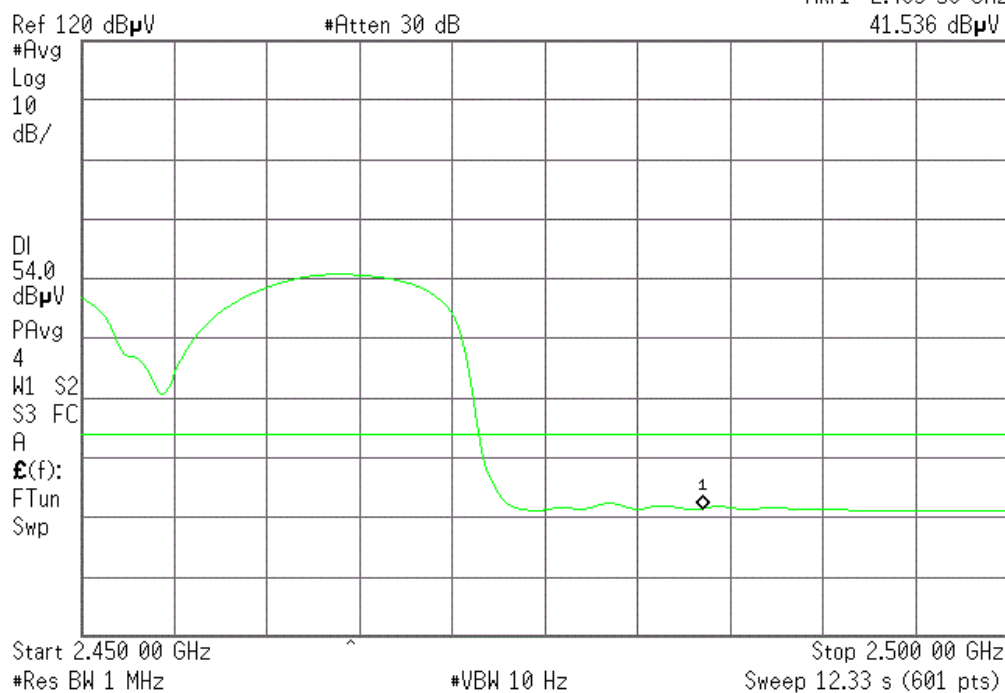
Agilent

Polarity: Horizontal

R T

Mkr1 2.483 50 GHz

41.536 dBμV



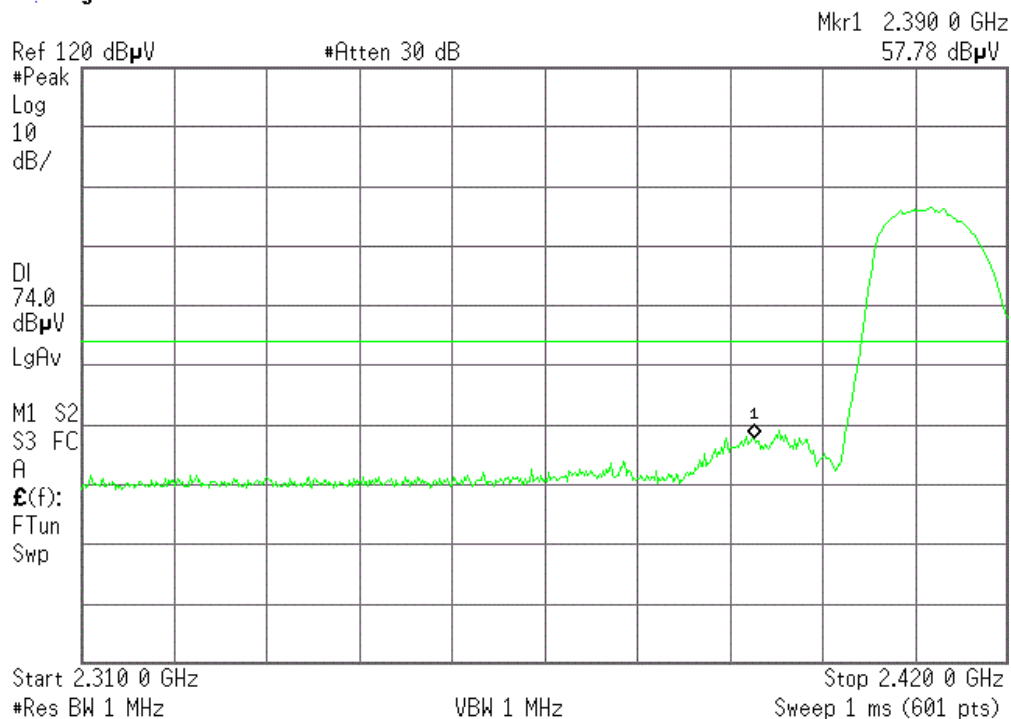
CH LOW :

Detector mode: Peak

Agilent

Polarity: Vertical

R

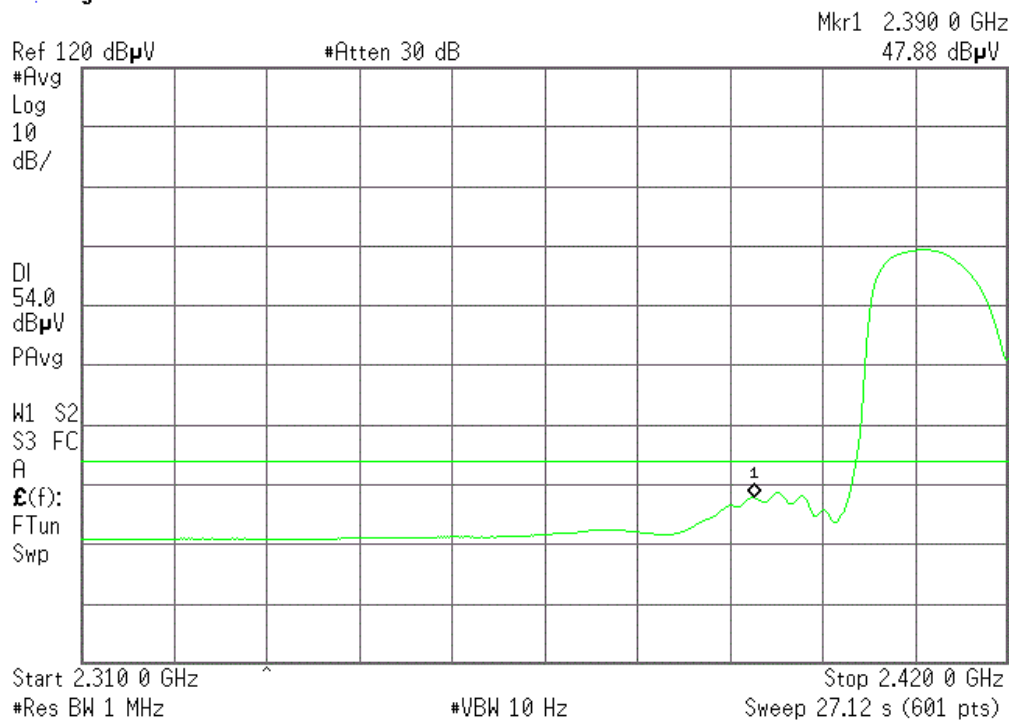


Detector mode: Average

Agilent

Polarity: Vertical

R T



CH High :

Detector mode: Peak

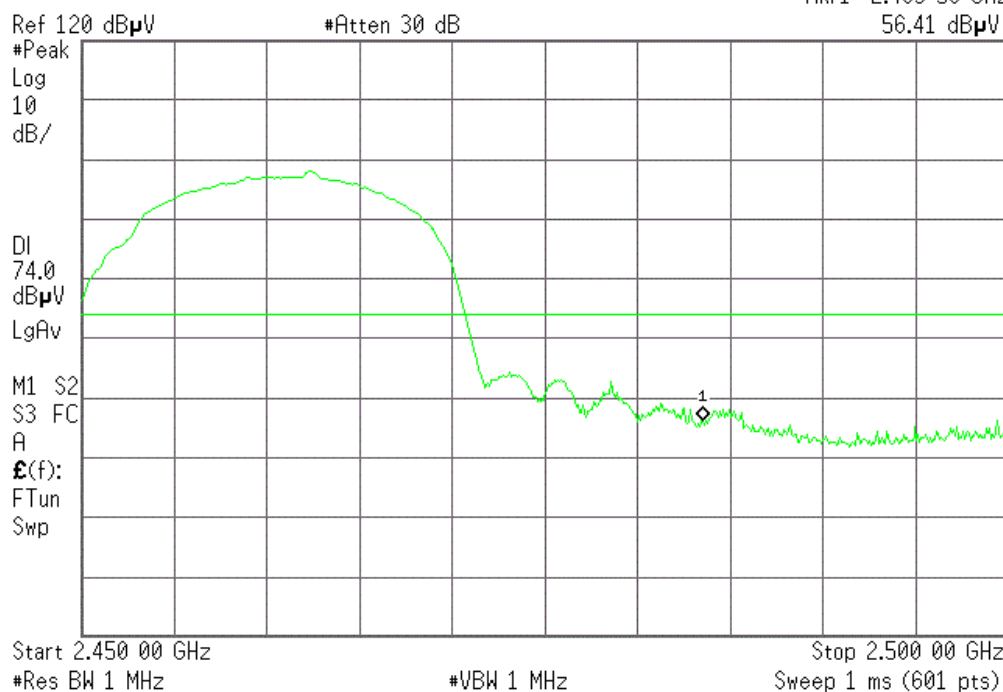
Agilent

Polarity: Vertical

R T

Mkr1 2.483 50 GHz

56.41 dBμV



Detector mode: Average

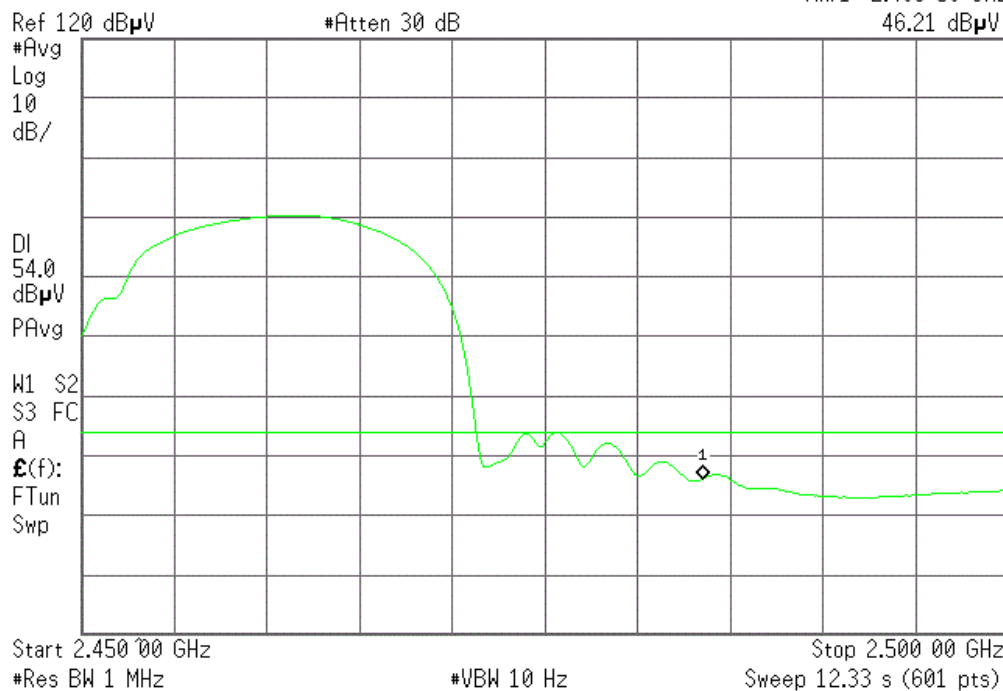
Agilent

Polarity: Vertical

R T

Mkr1 2.483 50 GHz

46.21 dBμV



11 Antenna Requirement

11.1 Standard Requirement

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. 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 provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

11.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 0.82 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

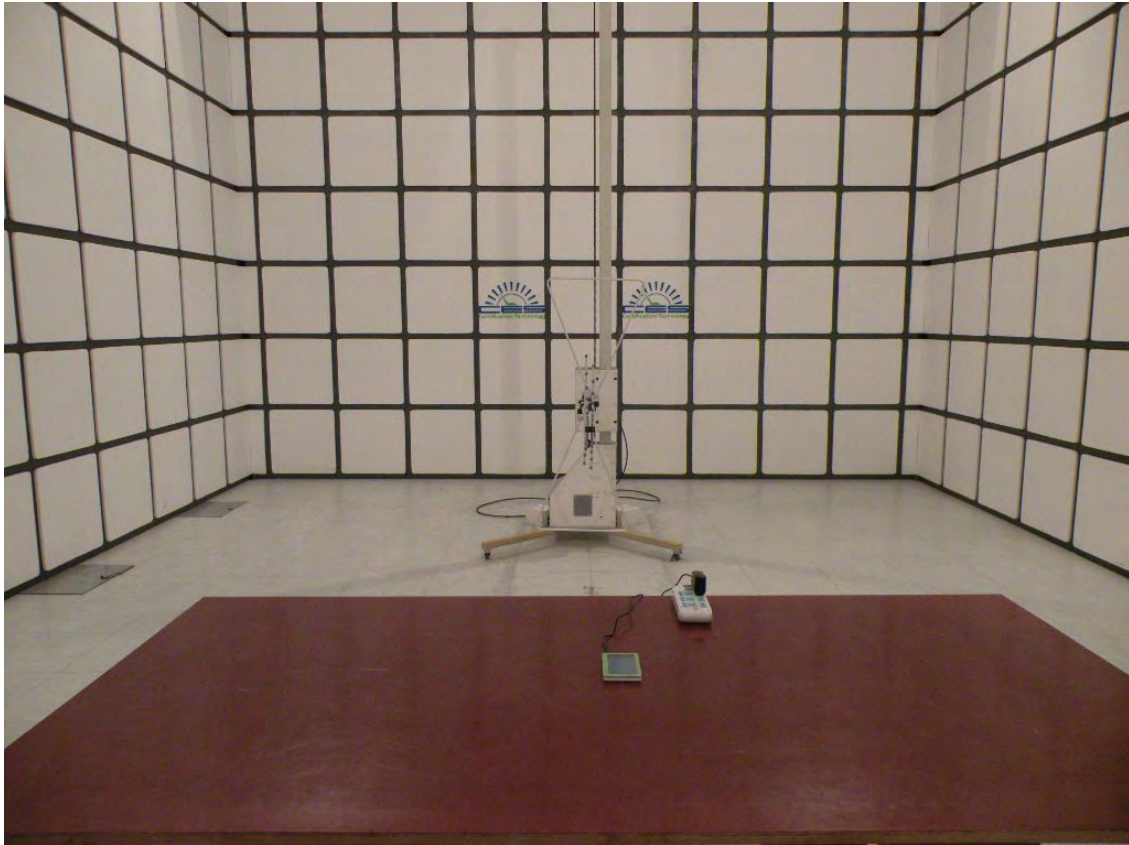
11.3 Result

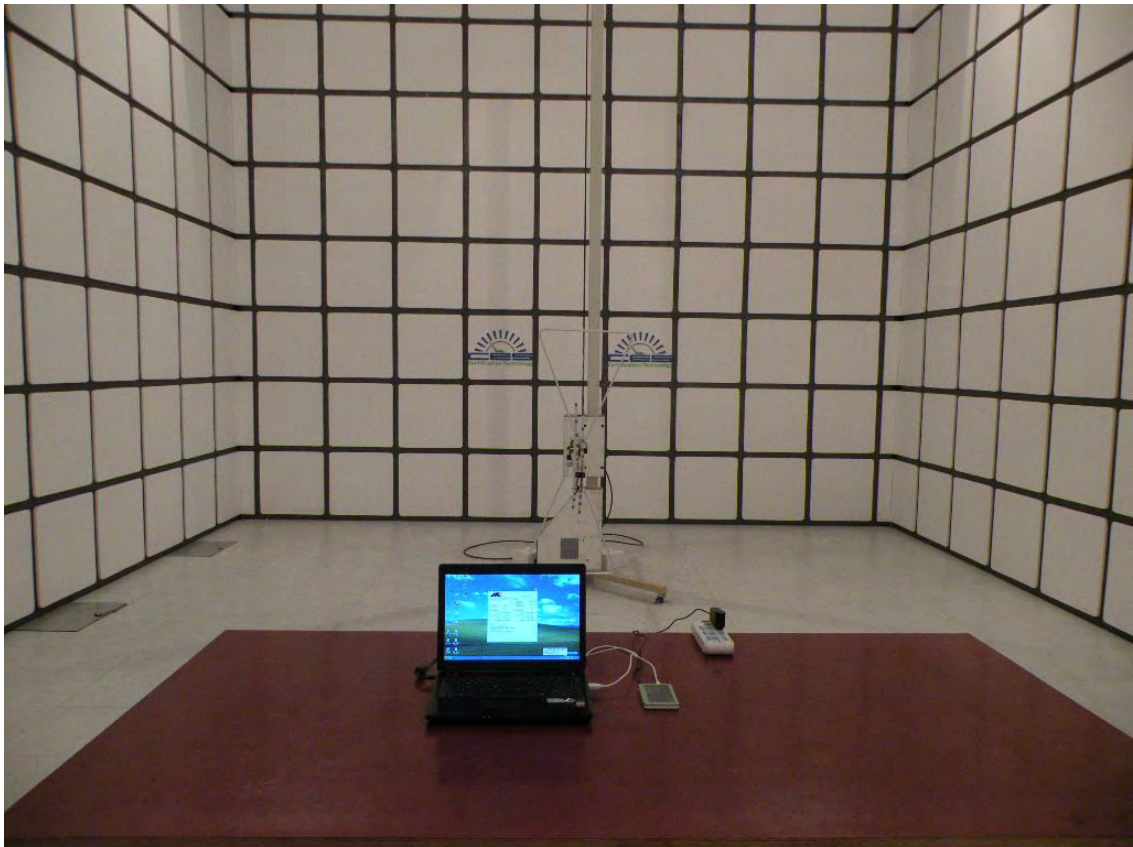
The EUT antenna is integral Antenna. It comply with the standard requirement.

12 Photographs of Test Setup

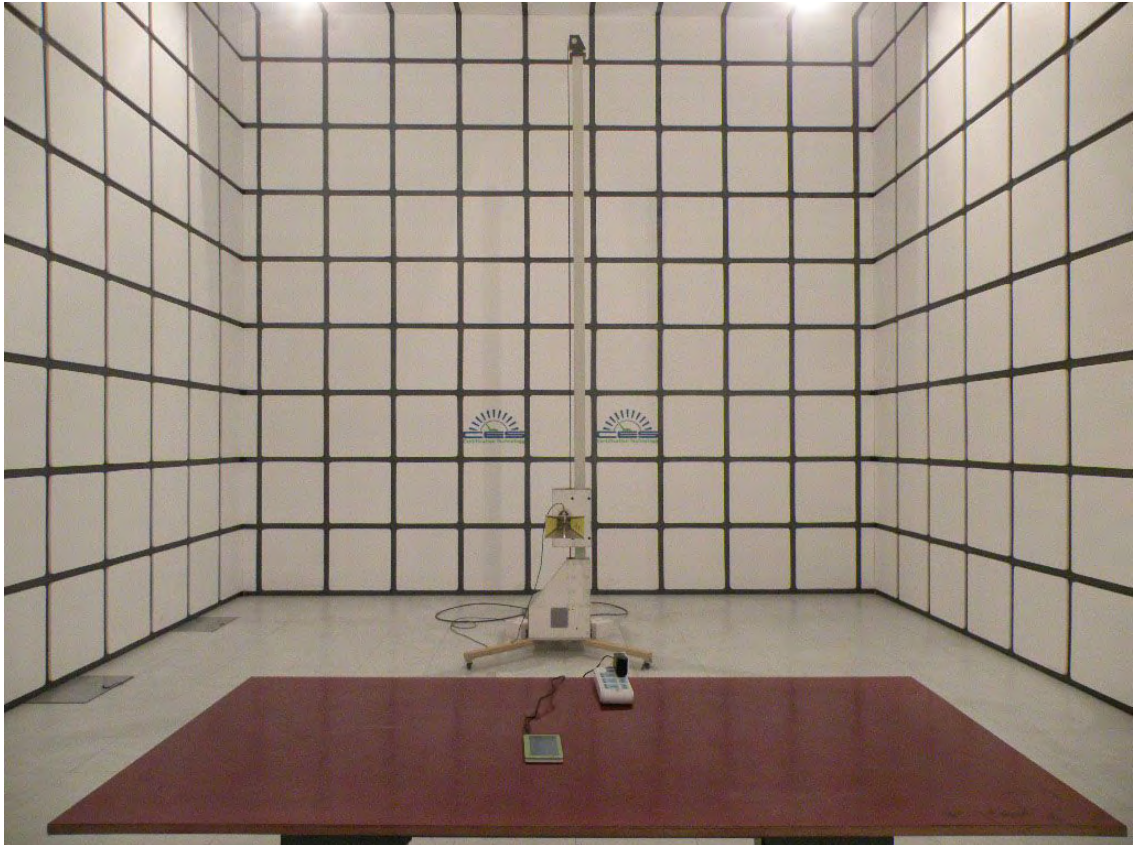
Photographs-Radiated Emission Test Setup in Chamber

Below 1G





Above 1G



Photographs-Conducted Emission Test Setup





13 Photographs of EUT

Figure 1

Photo of EUT

Front View []

Rear View []

Full View [✓]

Bottom View[]

Left View []

Right View []

Full View []



Figure 2

Photo of EUT

Front View []

Rear View []

Top View [✓]

Bottom View[]

Left View []

Right View []

Full View []



Figure 3

Photo of EUT

Front View []

Rear View []

Top View []

Bottom View [✓]

Left View []

Right View []

Full View []

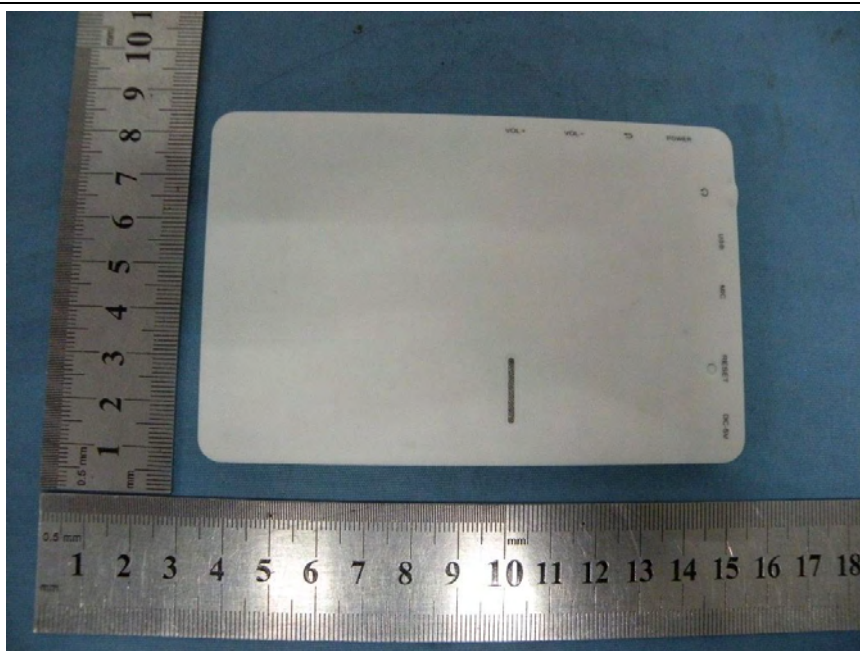


Figure 4

Photo of EUT

Front View [✓]

Rear View []

Top View []

Bottom View []

Left View []

Right View []

Internal View []

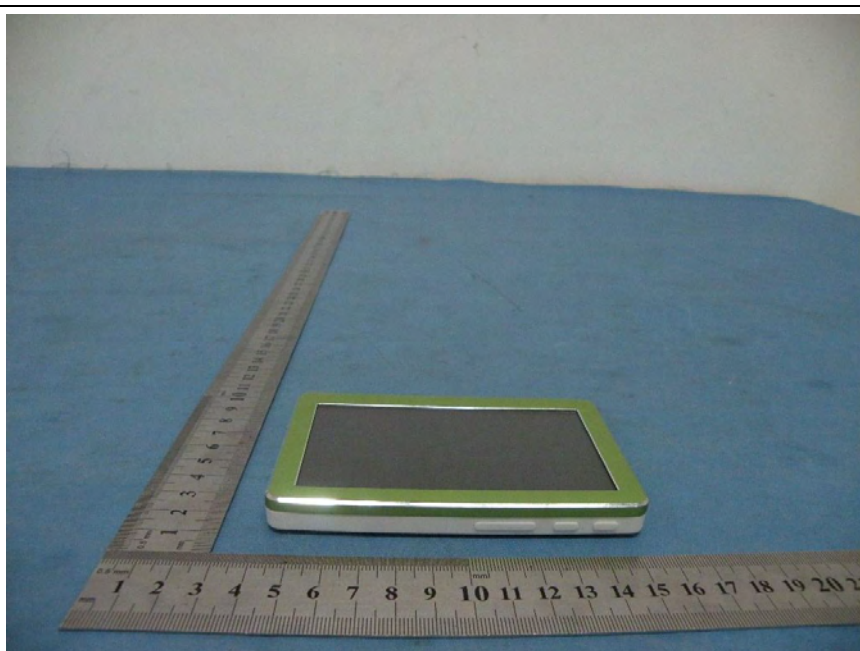


Figure 5

Photo of EUT

Front View ☐

Rear View ☐

Top View ☐

Bottom View ☐

Left View ☒

Right View ☐

Internal View ☐

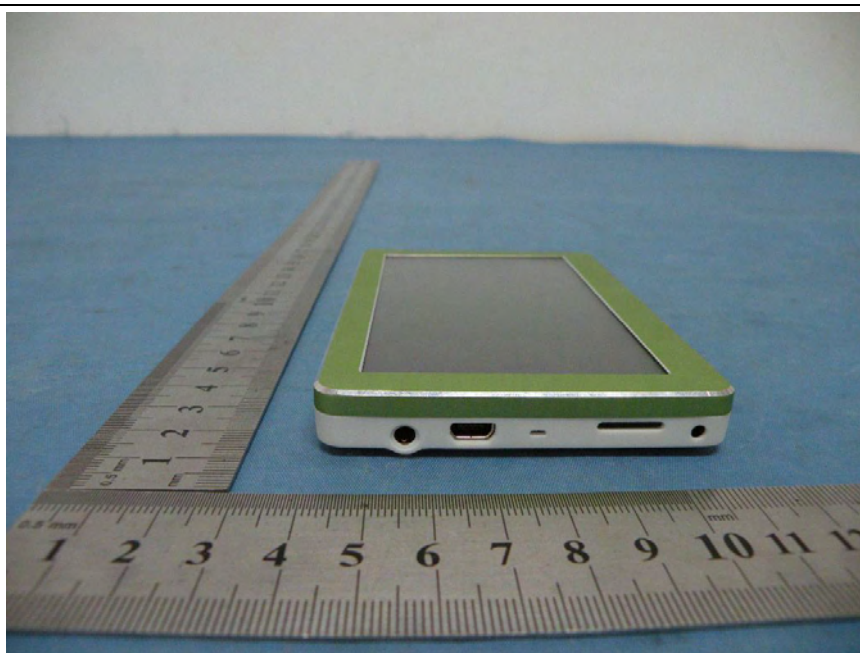


Figure 6

Photo of EUT

Front View ☐

Rear View ☒

Top View ☐

Bottom View ☐

Left View ☐

Right View ☐

Internal View ☐

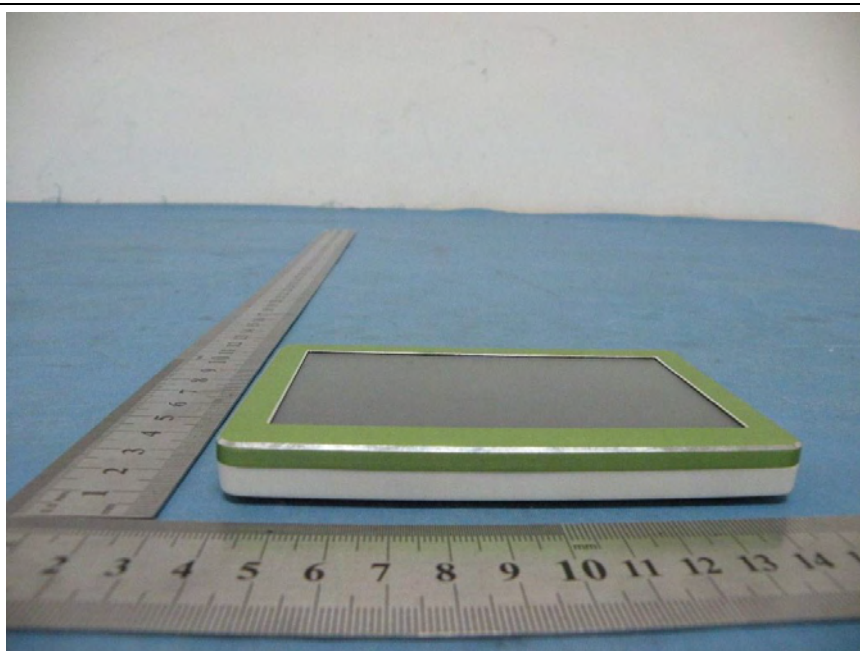


Figure 7

Photo of EUT

Front View []

Rear View []

Top View []

Bottom View []

Left View []

Right View [✓]

Internal View []

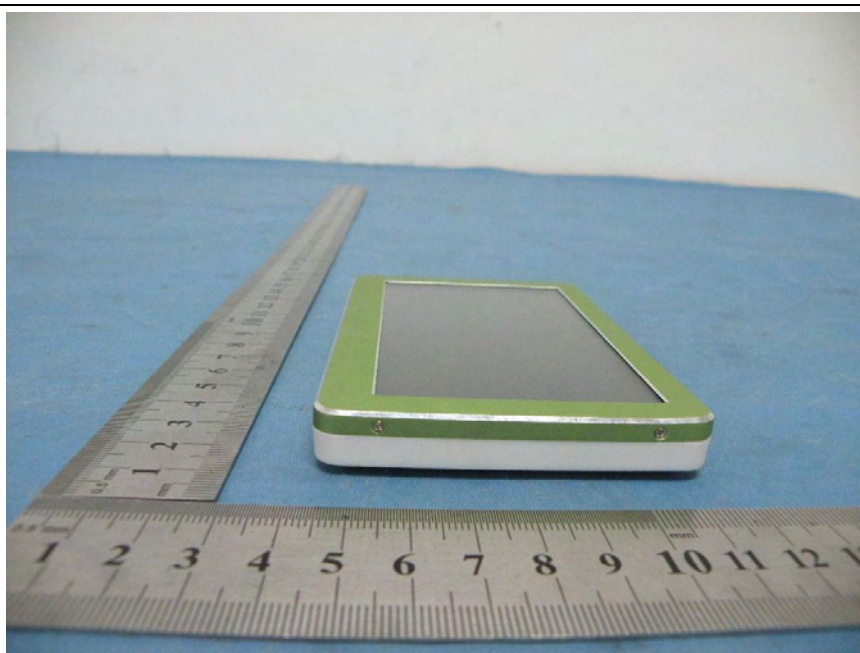


Figure 8

Photo of EUT

Front View []

Rear View []

Top View []

Bottom View []

Left View []

Right View []

Internal View [✓]



Figure 9

Photo of EUT

Front View []

Rear View []

Top View []

Bottom View []

Left View []

Right View []

Internal View [✓]

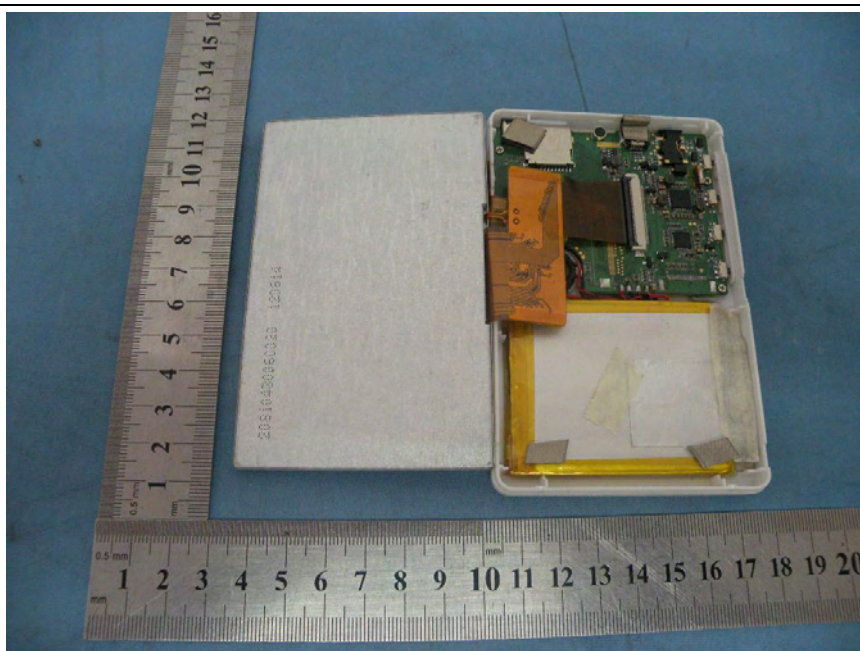


Figure 10

Photo of EUT

Front View []

Rear View []

Top View []

Bottom View []

Left View []

Right View []

Internal View [✓]

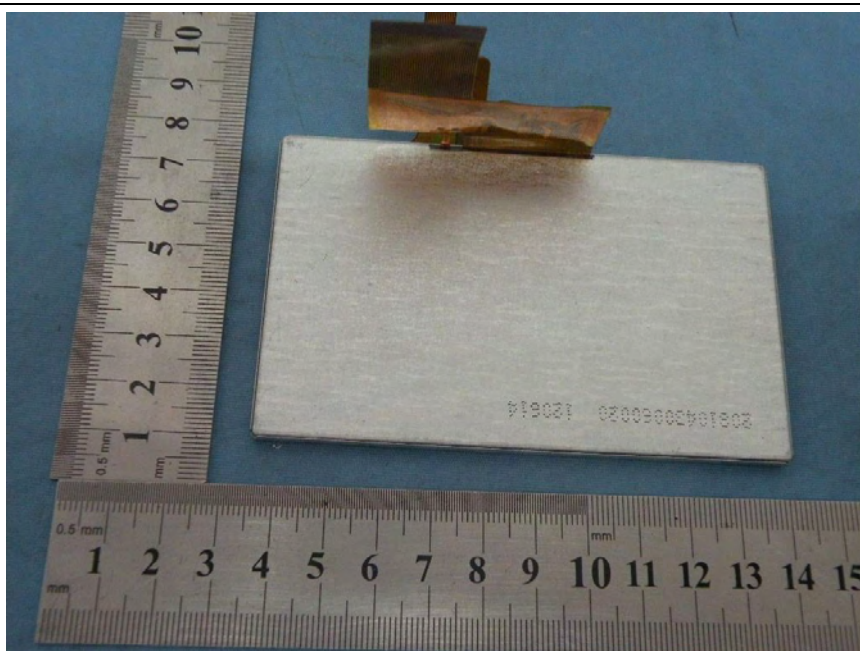


Figure 11

Photo of EUT

Front View []

Rear View []

Top View []

Bottom View []

Left View []

Right View []

Internal View [✓]



Figure 12

Photo of EUT

Front View []

Rear View []

Top View []

Bottom View []

Left View []

Right View []

Internal View [✓]



Figure 13

Photo of EUT

Front View []

Rear View []

Top View []

Bottom View []

Left View []

Right View []

Internal View [✓]

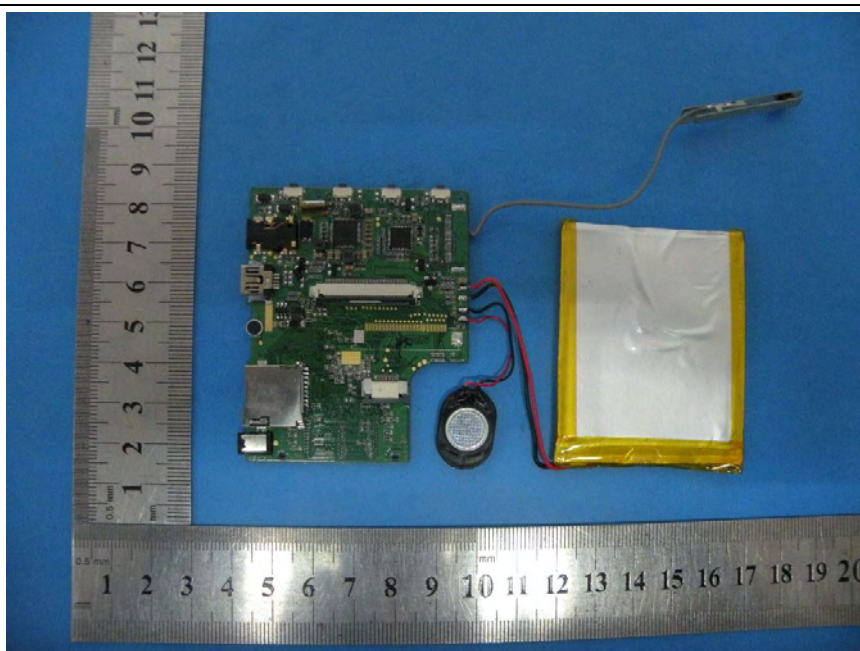


Figure 14

Photo of EUT

Front View []

Rear View []

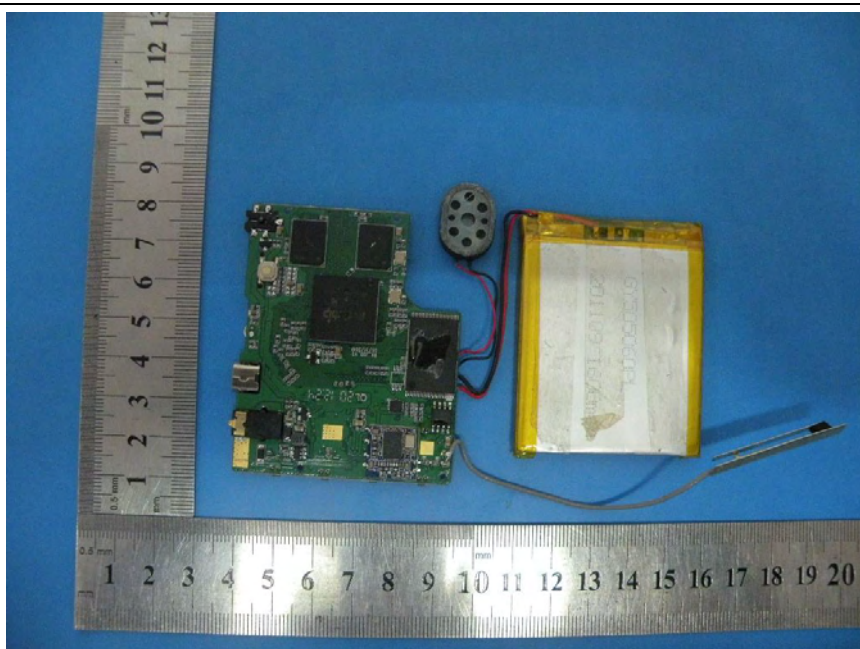
Top View []

Bottom View []

Left View []

Right View []

Internal View [✓]



-----END OF THE REPORT-----