



RADIO TESTREPORT

Report No:STS1812037W04

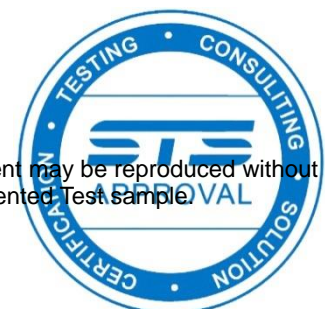
Issued for

XTR S.A.C.

Av. Camino Real 1225 Of 201-A San Isidro Lima, Peru

Product Name:	Smart phone
Brand Name:	EKS
Model Name:	T4
Series Model:	N/A
FCC ID:	2AGAK-T4
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant's name : XTR S.A.C.

Address..... : Av. Camino Real 1225 Of 201-A San Isidro Lima, Peru

Manufacture's Name : ENCORP LIMITED

Address..... : 6th Floor, Fuhua Technology Mansion A, Beihuan Boulevard No. 9116, Nanshan District, Shenzhen, China.

Product description

Product Name : Smart phone

Brand Name..... : EKS

Model Name..... : T4

SeriesModel..... : N/A

Test Standards : FCC Part15.247

Test procedure..... : ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test..... :

Date (s) of performance of tests..... : 10 Dec. 2018 ~ 27 Dec. 2018

Date of Issue : 27 Dec. 2018

Test Result : **Pass**

Testing Engineer : _____

(Chris chen)

Technical Manager : _____

(Sean she)

Authorized Signatory : _____

(Vita Li)

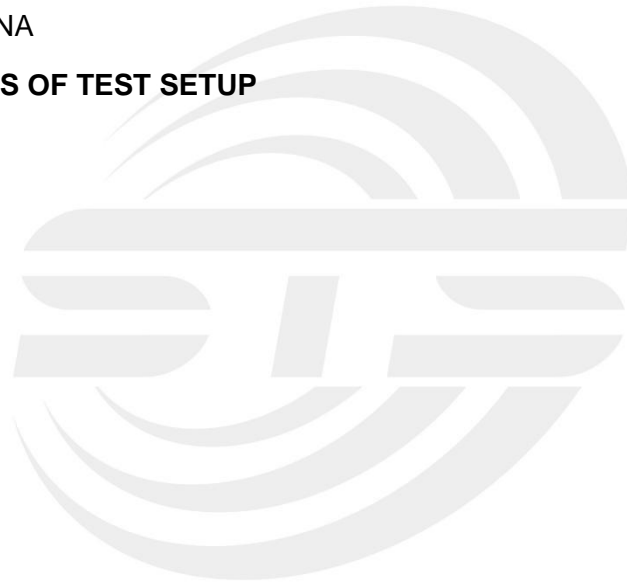


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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	27 Dec. 2018	STS1812037W04	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 DTS Meas Guidance v05

FCC Part 15.247,Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.247 (a)(2)	6dB Bandwidth	PASS	--
15.247 (b)(3)	Output Power	PASS	--
15.247 (c)	Radiated Spurious Emission	PASS	--
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	--
15.247 (e)	Power Spectral Density	PASS	--
15.205	Restricted Band Edge Emission	PASS	--
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

(2) all tests are according to ANSI C63.10-2013 .



1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add. : 1/F., Building B, Zhuoke Science Park, No.190,Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong,China

FCC Registration No.: 625569

IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power,conducted	± 0.71 dB
2	Unwanted Emissions,conducted	± 0.63 dB
3	All emissions,radiated 30-200MHz	± 3.43 dB
4	All emissions,radiated 200MHz-1GHz	± 3.57 dB
5	All emissions,radiated>1G	± 4.13 dB
6	Conducted Emission(9KHz-150KHz)	± 3.18 dB
7	Conducted Emission(150KHz-30MHz)	± 2.70 dB



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smart phone	
Trade Name	EKS	
Model Name	T4	
Series Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Smart phone	
	Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz
	Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM
	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5Mbps 802.11n(40MHz): 135/121.5/108/81/54/40.5/37/13.5Mbps
	Number of Channel:	802.11b/g/n20: 11CH 802.11n 40: 7CH
	Antenna Designation:	Please see Note 3.
	AntennaGain (dBi):	0 dBi
	Duty Cycle:	>98%
Channel List	Please refer to the Note 2.	
Adapter	Input: AC100-240V, 150mA,50/60Hz Output: DC5V,500mA	
Battery	Capacity: 1400mAh Rated Voltage: DC 3.7V Charge Limit: DC 4.2V	
Hardware version number	S9B_80MB_V3.0	
Software versionnumber	N/A	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

- 1 For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2

Operation Frequency of channel			
802.11b/g/n(20MHz)		Channel List for 802.11n(40MHz)	
Channel	Frequency	Channel	Frequency
01	2412	03	2422
02	2417	04	2427
03	2422	05	2432
04	2427	06	2437
05	2432	07	2442
06	2437	08	2447
07	2442	09	2452
08	2447		
09	2452		
10	2457		
11	2462		

- 3 Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:
Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n (HT20)		For 802.11n (HT40)	
Channel	Freq.(MHz)	Channel	Freq.(MHz)
01	2412	03	2422
06	2437	06	2437
11	2462	09	2452

3

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	EKS	T4	PIFA	N/A	0 dBi	WLAN Antenna



2.2 DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH3	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH6	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH9	MCS 0

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V /60Hz is shown in the report

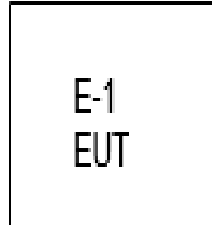
AC Conducted Emission

Test Case	
AC Conducted Emission	Mode13: Keeping WIFI TX

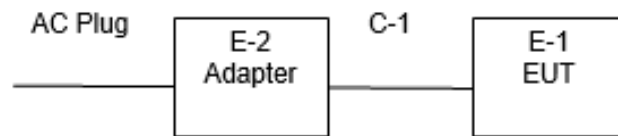


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set



conduction Test Set





2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Adapter	EKS	T4	N/A	N/A
C-1	DC Cable	N/A	100cm	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



2.5 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
Signal Analyzer	Agilent	N9020A	MY51110105	2018.03.08	2019.03.07
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.1
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18
SHF-EHF Horn Antenna (15G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2019.03.10
Pre-mpifier(0.1M-3GHz)	EM	EM330	060665	2018.10.13	2019.10.12
PreAmplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK201808090 1	2018.10.13	2019.10.12
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10
turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
LISN	R&S	ENV216	101242	2018.10.11	2019.10.10
LISN	EMCO	3810/2NM	23625	2018.10.11	2019.10.10
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2018.10.13	2019.10.12
Signal Analyzer	Agilent	N9020A	MY49100060	2018.10.13	2019.10.12
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 15.207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

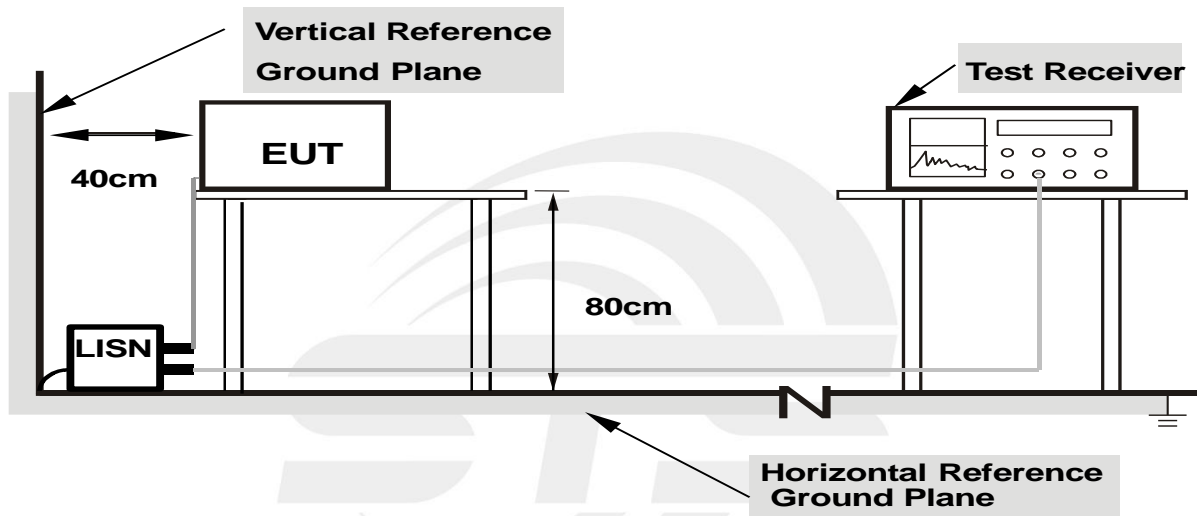
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



**Note: 1.Support units were connected to second LISN.
 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

3.1.4EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.1.5 TEST RESULT

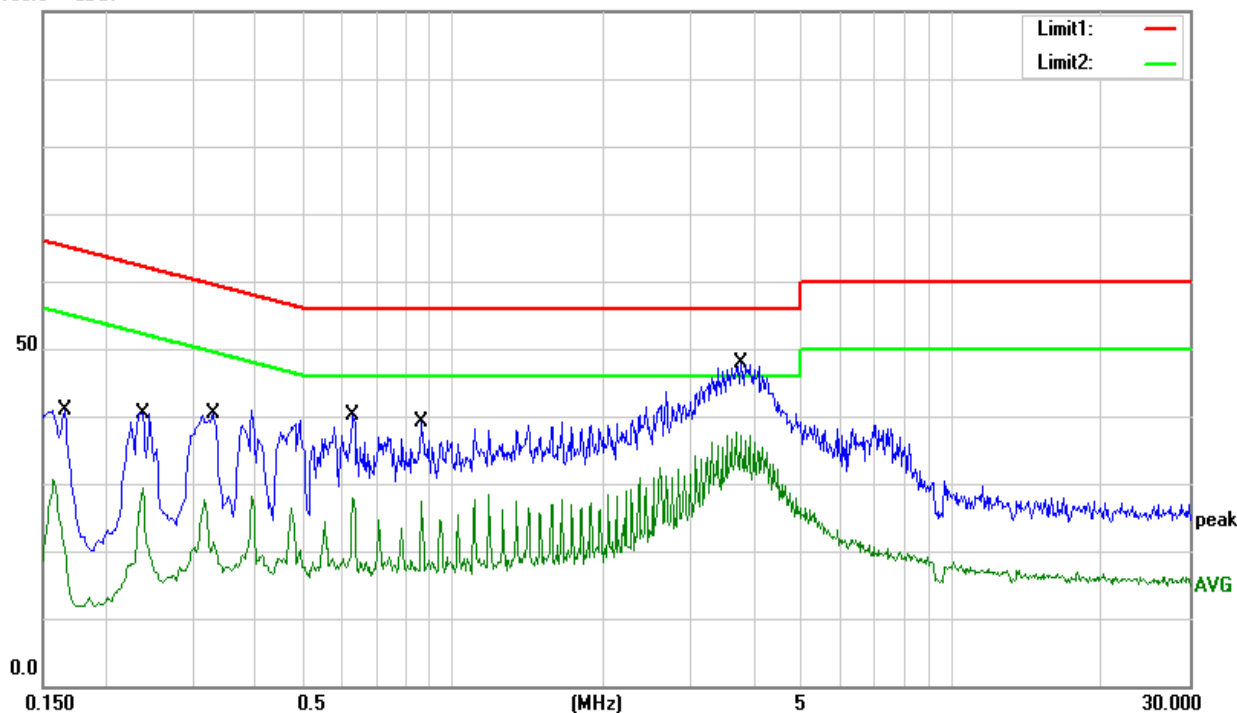
Temperature:	26°C	Relative Humidity:	61%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1660	20.63	20.23	40.86	65.16	-24.30	QP
2	0.1660	10.48	20.23	30.71	55.16	-24.45	AVG
3	0.2380	19.98	20.42	40.40	62.17	-21.77	QP
4	0.2380	8.92	20.42	29.34	52.17	-22.83	AVG
5	0.3300	19.84	20.66	40.50	59.45	-18.95	QP
6	0.3300	6.97	20.66	27.63	49.45	-21.82	AVG
7	0.6300	19.91	20.34	40.25	56.00	-15.75	QP
8	0.6300	7.47	20.34	27.81	46.00	-18.19	AVG
9	0.8660	18.89	20.20	39.09	56.00	-16.91	QP
10	0.8660	7.14	20.20	27.34	46.00	-18.66	AVG
11	3.7780	27.79	19.96	47.75	56.00	-8.25	QP
12	3.7780	17.78	19.96	37.74	46.00	-8.26	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result =Reading + Factor)–Limit

100.0 dBuV



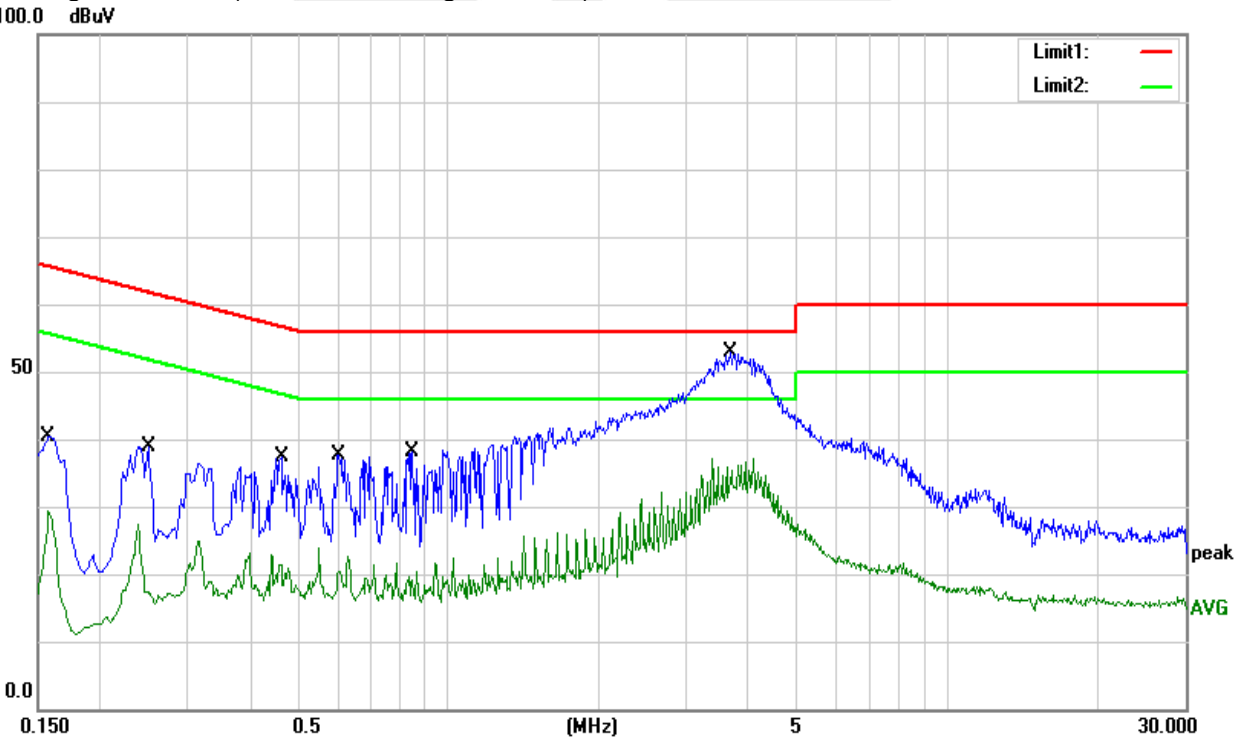


Temperature:	26°C	Relative Humidity:	61%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1590	20.03	20.23	40.26	65.52	-25.26	QP
2	0.1590	9.09	20.23	29.32	55.52	-26.20	AVG
3	0.2500	18.41	20.47	38.88	61.76	-22.88	QP
4	0.2500	1.38	20.47	21.85	51.76	-29.91	AVG
5	0.4620	16.86	20.48	37.34	56.66	-19.32	QP
6	0.4620	1.02	20.48	21.50	46.66	-25.16	AVG
7	0.6020	17.19	20.36	37.55	56.00	-18.45	QP
8	0.6020	2.27	20.36	22.63	46.00	-23.37	AVG
9	0.8460	17.84	20.21	38.05	56.00	-17.95	QP
10	0.8460	0.29	20.21	20.50	46.00	-25.50	AVG
11	3.6700	32.94	19.96	52.90	56.00	-3.10	QP
12	3.6700	16.20	19.96	36.16	46.00	-9.84	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

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

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz /3MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2300 to 2412 MHz Upper Band Edge: 2462to 2500 MHz
RB / VB (emission in restricted band)	1 MHz /3MHz



Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

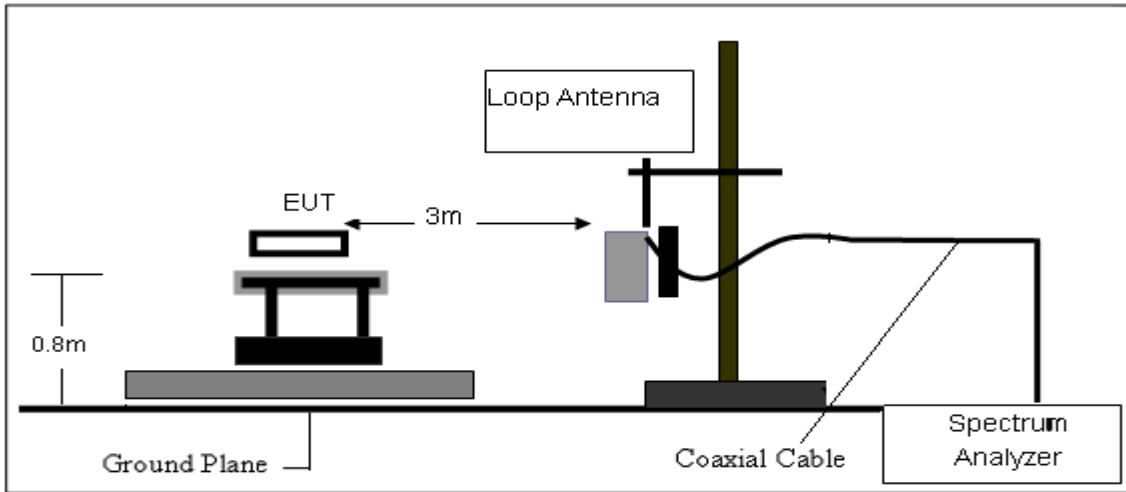
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement
- d. 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 Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

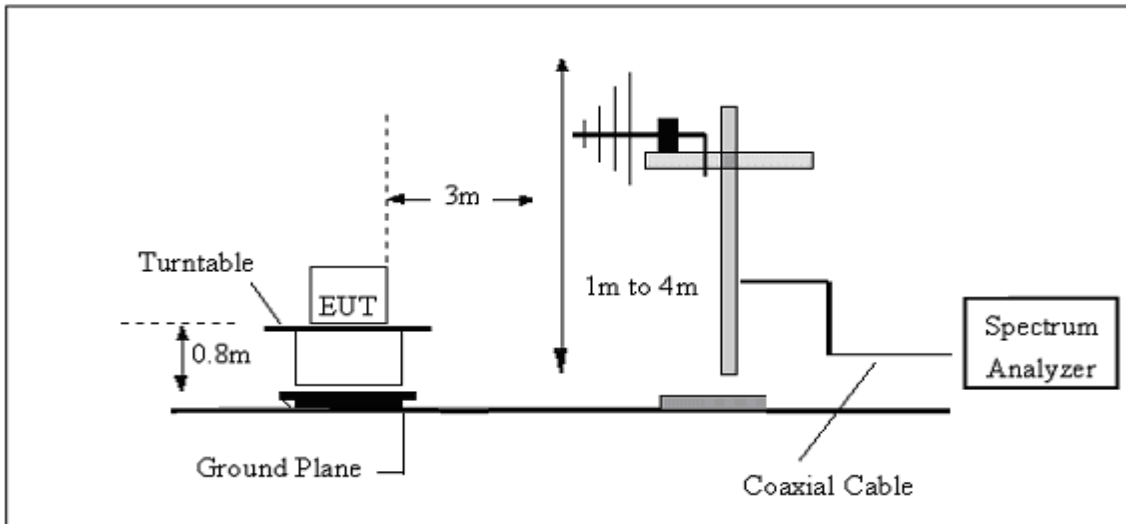
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

3.2.3 TEST SETUP

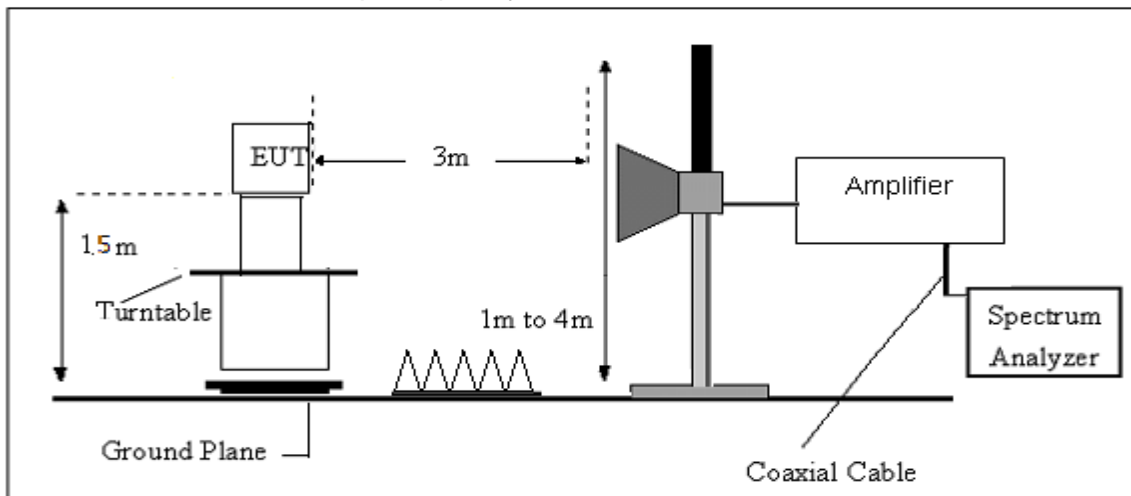
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency (MHz)	FS (dB μ V/m)	RA (dB μ V/m)	AF (dB)	CL (dB)	AG (dB)	Factor (dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$





3.2.6 TEST RESULT

9KHz-30MHz

Temperature:	20.5°C	Relative Humidity:	49%
Test Voltage:	DC 3.7V	Polarization:	--
Test Mode:	TX Mode		

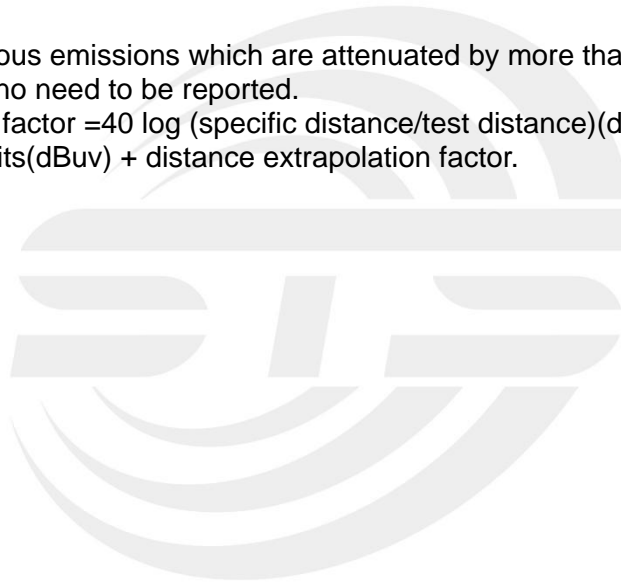
Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F	Test Result
--	--	--	--	--	PASS
--	--	--	--	--	PASS

Note:

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

Distance extrapolation factor = $40 \log(\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.





(30MHz - 1000MHz)

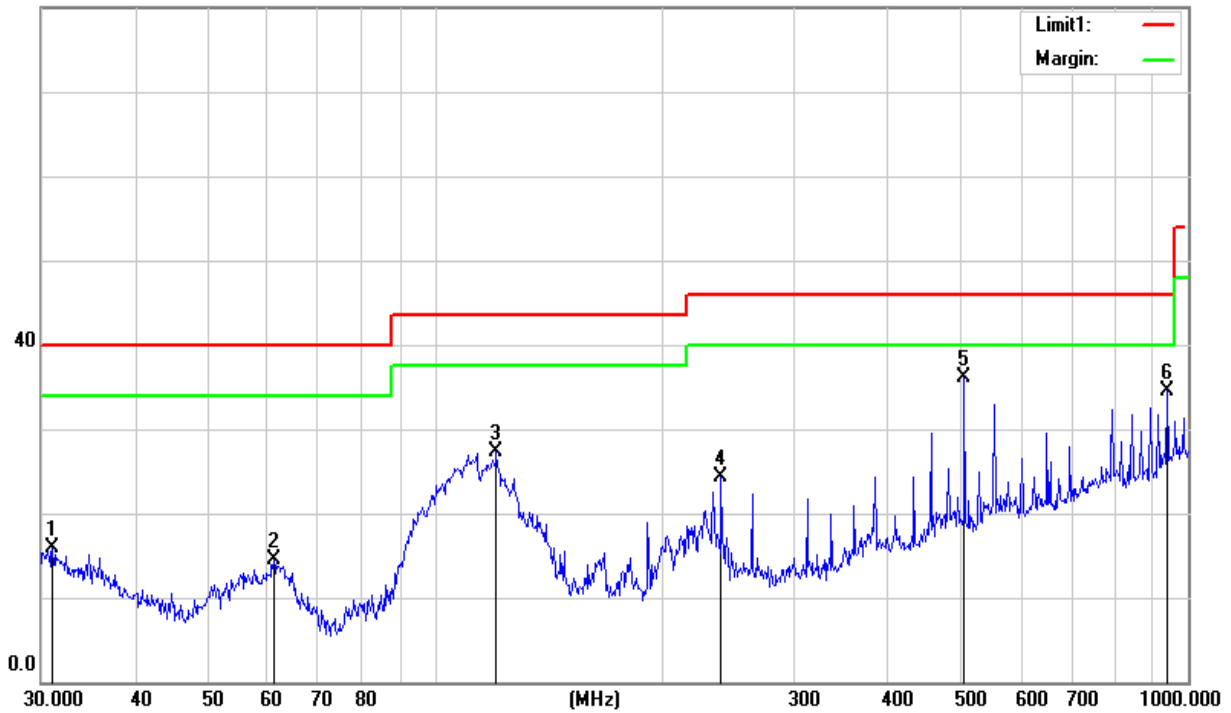
Temperature:	20.5°C	Relative Humidity:	49%
Test Voltage:	DC 3.7V	Polarization :	Horizontal
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 10 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.0706	27.63	-11.74	15.89	40.00	-24.11	QP
2	61.1316	38.74	-24.32	14.42	40.00	-25.58	QP
3	120.6991	44.97	-17.68	27.29	43.50	-16.21	QP
4	239.9873	42.14	-17.76	24.38	46.00	-21.62	QP
5	504.7062	44.90	-8.89	36.01	46.00	-9.99	QP
6	938.8326	35.27	-0.75	34.52	46.00	-11.48	QP

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit

80.0 dBuV/m





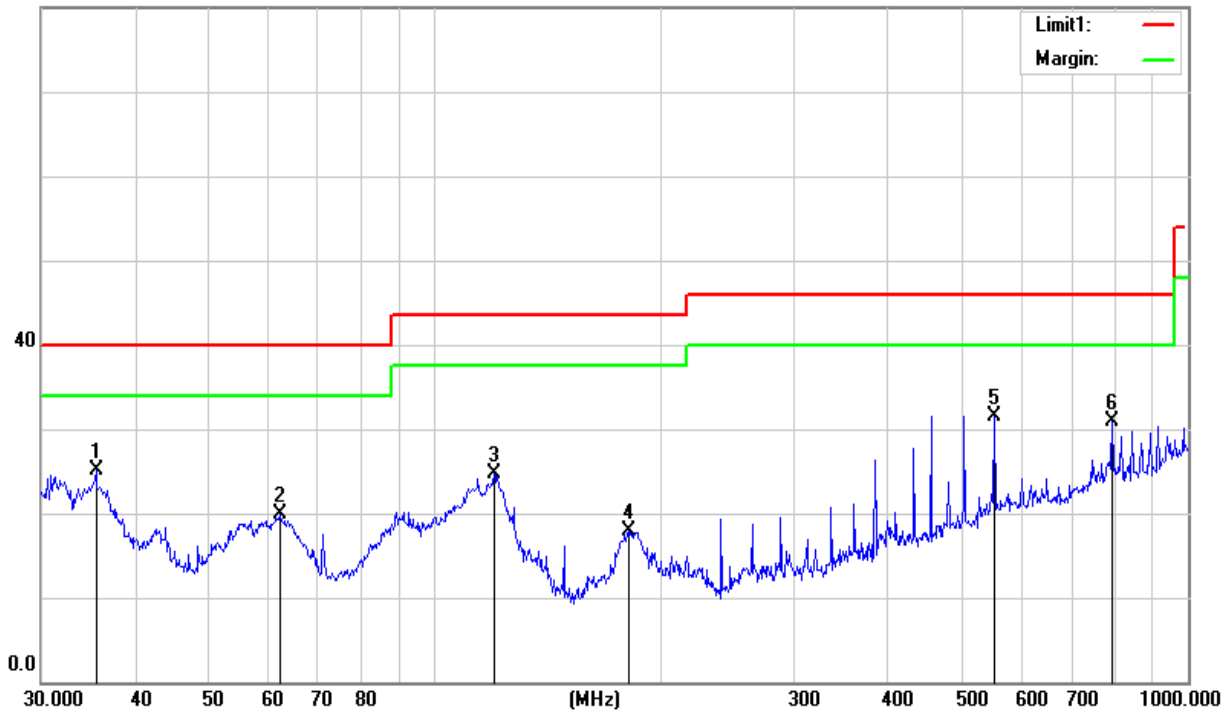
Temperature:	20.5°C	Relative Humidity:	49%
Test Voltage:	DC 3.7V	Polarization:	Vertical
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 10 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	35.4992	39.03	-14.01	25.02	40.00	-14.98	QP
2	62.4313	44.13	-24.28	19.85	40.00	-20.15	QP
3	119.8555	42.39	-17.70	24.69	43.50	-18.81	QP
4	181.2834	37.39	-19.55	17.84	43.50	-25.66	QP
5	552.8832	38.30	-6.71	31.59	46.00	-14.41	QP
6	793.3960	34.28	-3.34	30.94	46.00	-15.06	QP

Remark:.

1. Margin = Result (Result = Reading + Factor) – Limit

80.0 dBuV/m





(1000MHz-25GHz) Restricted band and Spurious emission Requirements

802.11n(HT20)

Frequency (MHz)	Meter Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (2412 MHz)										
3264.65	61.57	44.70	6.70	28.20	-9.80	51.77	74.00	-22.23	PK	Vertical
3264.65	50.73	44.70	6.70	28.20	-9.80	40.93	54.00	-13.07	AV	Vertical
3264.83	61.63	44.70	6.70	28.20	-9.80	51.83	74.00	-22.17	PK	Horizontal
3264.83	50.14	44.70	6.70	28.20	-9.80	40.34	54.00	-13.66	AV	Horizontal
4824.42	59.19	44.20	9.04	31.60	-3.56	55.63	74.00	-18.37	PK	Vertical
4824.42	49.68	44.20	9.04	31.60	-3.56	46.12	54.00	-7.88	AV	Vertical
4824.59	58.53	44.20	9.04	31.60	-3.56	54.97	74.00	-19.03	PK	Horizontal
4824.59	50.59	44.20	9.04	31.60	-3.56	47.03	54.00	-6.97	AV	Horizontal
5359.62	49.40	44.20	9.86	32.00	-2.34	47.06	74.00	-26.94	PK	Vertical
5359.62	39.71	44.20	9.86	32.00	-2.34	37.37	54.00	-16.63	AV	Vertical
5359.57	48.51	44.20	9.86	32.00	-2.34	46.17	74.00	-27.83	PK	Horizontal
5359.57	38.31	44.20	9.86	32.00	-2.34	35.97	54.00	-18.03	AV	Horizontal
7235.96	54.59	43.50	11.40	35.50	3.40	57.99	74.00	-16.01	PK	Vertical
7235.96	44.22	43.50	11.40	35.50	3.40	47.62	54.00	-6.38	AV	Vertical
7235.71	53.90	43.50	11.40	35.50	3.40	57.30	74.00	-16.70	PK	Horizontal
7235.85	43.59	43.50	11.40	35.50	3.40	46.99	54.00	-7.01	AV	Vertical
Middle Channel (2437 MHz)										
3264.87	61.47	44.70	6.70	28.20	-9.80	51.67	74.00	-22.33	PK	Vertical
3264.87	49.92	44.70	6.70	28.20	-9.80	40.12	54.00	-13.88	AV	Vertical
3264.64	61.04	44.70	6.70	28.20	-9.80	51.24	74.00	-22.76	PK	Horizontal
3264.64	50.71	44.70	6.70	28.20	-9.80	40.91	54.00	-13.09	AV	Horizontal
4874.51	58.89	44.20	9.04	31.60	-3.56	55.33	74.00	-18.67	PK	Vertical
4874.51	49.31	44.20	9.04	31.60	-3.56	45.75	54.00	-8.25	AV	Vertical
4874.35	58.40	44.20	9.04	31.60	-3.56	54.84	74.00	-19.16	PK	Horizontal
4874.35	49.11	44.20	9.04	31.60	-3.56	45.55	54.00	-8.45	AV	Horizontal
5359.69	48.13	44.20	9.86	32.00	-2.34	45.79	74.00	-28.21	PK	Vertical
5359.69	39.00	44.20	9.86	32.00	-2.34	36.66	54.00	-17.34	AV	Vertical
5359.68	47.39	44.20	9.86	32.00	-2.34	45.05	74.00	-28.95	PK	Horizontal
5359.68	39.04	44.20	9.86	32.00	-2.34	36.70	54.00	-17.30	AV	Horizontal
7310.69	54.53	43.50	11.40	35.50	3.40	57.93	74.00	-16.07	PK	Vertical
7310.69	44.63	43.50	11.40	35.50	3.40	48.03	54.00	-5.97	AV	Vertical
7310.92	53.64	43.50	11.40	35.50	3.40	57.04	74.00	-16.96	PK	Horizontal
7310.92	43.77	43.50	11.40	35.50	3.40	47.17	54.00	-6.83	AV	Horizontal



High Channel (2462 MHz)										
3264.84	61.33	44.70	6.70	28.20	-9.80	51.53	74.00	-22.47	PK	Vertical
3264.84	51.72	44.70	6.70	28.20	-9.80	41.92	54.00	-12.08	AV	Vertical
3264.80	61.55	44.70	6.70	28.20	-9.80	51.75	74.00	-22.25	PK	Horizontal
3264.80	49.92	44.70	6.70	28.20	-9.80	40.12	54.00	-13.88	AV	Horizontal
4924.48	58.70	44.20	9.04	31.60	-3.56	55.14	74.00	-18.86	PK	Vertical
4924.48	49.54	44.20	9.04	31.60	-3.56	45.98	54.00	-8.02	AV	Vertical
4924.55	58.53	44.20	9.04	31.60	-3.56	54.97	74.00	-19.03	PK	Horizontal
4924.55	49.31	44.20	9.04	31.60	-3.56	45.75	54.00	-8.25	AV	Horizontal
5359.66	48.52	44.20	9.86	32.00	-2.34	46.18	74.00	-27.82	PK	Vertical
5359.66	39.02	44.20	9.86	32.00	-2.34	36.68	54.00	-17.32	AV	Vertical
5359.75	47.09	44.20	9.86	32.00	-2.34	44.75	74.00	-29.25	PK	Horizontal
5359.75	38.63	44.20	9.86	32.00	-2.34	36.29	54.00	-17.71	AV	Horizontal
7385.75	54.59	43.50	11.40	35.50	3.40	57.99	74.00	-16.01	PK	Vertical
7385.75	44.32	43.50	11.40	35.50	3.40	47.72	54.00	-6.28	AV	Vertical
7385.77	53.60	43.50	11.40	35.50	3.40	57.00	74.00	-17.00	PK	Horizontal
7385.77	43.69	43.50	11.40	35.50	3.40	47.09	54.00	-6.91	AV	Horizontal



802.11 n(HT40)

Frequency (MHz)	Meter Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Orrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (2422 MHz)										
3264.65	61.57	44.70	6.70	28.20	-9.80	51.77	74.00	-22.23	PK	Vertical
3264.65	50.73	44.70	6.70	28.20	-9.80	40.93	54.00	-13.07	AV	Vertical
3264.83	61.63	44.70	6.70	28.20	-9.80	51.83	74.00	-22.17	PK	Horizontal
3264.83	50.14	44.70	6.70	28.20	-9.80	40.34	54.00	-13.66	AV	Horizontal
4844.42	59.19	44.20	9.04	31.60	-3.56	55.63	74.00	-18.37	PK	Vertical
4844.42	49.68	44.20	9.04	31.60	-3.56	46.12	54.00	-7.88	AV	Vertical
4844.59	58.53	44.20	9.04	31.60	-3.56	54.97	74.00	-19.03	PK	Horizontal
4844.59	50.59	44.20	9.04	31.60	-3.56	47.03	54.00	-6.97	AV	Horizontal
5359.62	49.40	44.20	9.86	32.00	-2.34	47.06	74.00	-26.94	PK	Vertical
5359.62	39.71	44.20	9.86	32.00	-2.34	37.37	54.00	-16.63	AV	Vertical
5359.57	48.51	44.20	9.86	32.00	-2.34	46.17	74.00	-27.83	PK	Horizontal
5359.57	38.31	44.20	9.86	32.00	-2.34	35.97	54.00	-18.03	AV	Horizontal
7265.96	54.59	43.50	11.40	35.50	3.40	57.99	74.00	-16.01	PK	Vertical
7265.96	44.22	43.50	11.40	35.50	3.40	47.62	54.00	-6.38	AV	Vertical
7265.71	53.90	43.50	11.40	35.50	3.40	57.30	74.00	-16.70	PK	Horizontal
7265.85	43.59	43.50	11.40	35.50	3.40	46.99	54.00	-7.01	AV	Vertical
Middle Channel (2437 MHz)										
3264.87	61.47	44.70	6.70	28.20	-9.80	51.67	74.00	-22.33	PK	Vertical
3264.87	49.92	44.70	6.70	28.20	-9.80	40.12	54.00	-13.88	AV	Vertical
3264.64	61.04	44.70	6.70	28.20	-9.80	51.24	74.00	-22.76	PK	Horizontal
3264.64	50.71	44.70	6.70	28.20	-9.80	40.91	54.00	-13.09	AV	Horizontal
4874.51	58.89	44.20	9.04	31.60	-3.56	55.33	74.00	-18.67	PK	Vertical
4874.51	49.31	44.20	9.04	31.60	-3.56	45.75	54.00	-8.25	AV	Vertical
4874.35	58.40	44.20	9.04	31.60	-3.56	54.84	74.00	-19.16	PK	Horizontal
4874.35	49.11	44.20	9.04	31.60	-3.56	45.55	54.00	-8.45	AV	Horizontal
5359.69	48.13	44.20	9.86	32.00	-2.34	45.79	74.00	-28.21	PK	Vertical
5359.69	39.00	44.20	9.86	32.00	-2.34	36.66	54.00	-17.34	AV	Vertical
5359.68	47.39	44.20	9.86	32.00	-2.34	45.05	74.00	-28.95	PK	Horizontal
5359.68	39.04	44.20	9.86	32.00	-2.34	36.70	54.00	-17.30	AV	Horizontal
7310.69	54.53	43.50	11.40	35.50	3.40	57.93	74.00	-16.07	PK	Vertical
7310.69	44.63	43.50	11.40	35.50	3.40	48.03	54.00	-5.97	AV	Vertical
7310.92	53.64	43.50	11.40	35.50	3.40	57.04	74.00	-16.96	PK	Horizontal
7310.92	43.77	43.50	11.40	35.50	3.40	47.17	54.00	-6.83	AV	Horizontal



High Channel (2452 MHz)										
3264.84	61.33	44.70	6.70	28.20	-9.80	51.53	74.00	-22.47	PK	Vertical
3264.84	51.72	44.70	6.70	28.20	-9.80	41.92	54.00	-12.08	AV	Vertical
3264.80	61.55	44.70	6.70	28.20	-9.80	51.75	74.00	-22.25	PK	Horizontal
3264.80	49.92	44.70	6.70	28.20	-9.80	40.12	54.00	-13.88	AV	Horizontal
4904.48	58.70	44.20	9.04	31.60	-3.56	55.14	74.00	-18.86	PK	Vertical
4904.48	49.54	44.20	9.04	31.60	-3.56	45.98	54.00	-8.02	AV	Vertical
4904.55	58.53	44.20	9.04	31.60	-3.56	54.97	74.00	-19.03	PK	Horizontal
4904.55	49.31	44.20	9.04	31.60	-3.56	45.75	54.00	-8.25	AV	Horizontal
5359.66	48.52	44.20	9.86	32.00	-2.34	46.18	74.00	-27.82	PK	Vertical
5359.66	39.02	44.20	9.86	32.00	-2.34	36.68	54.00	-17.32	AV	Vertical
5359.75	47.09	44.20	9.86	32.00	-2.34	44.75	74.00	-29.25	PK	Horizontal
5359.75	38.63	44.20	9.86	32.00	-2.34	36.29	54.00	-17.71	AV	Horizontal
7355.75	54.59	43.50	11.40	35.50	3.40	57.99	74.00	-16.01	PK	Vertical
7355.75	44.32	43.50	11.40	35.50	3.40	47.72	54.00	-6.28	AV	Vertical
7355.77	53.60	43.50	11.40	35.50	3.40	57.00	74.00	-17.00	PK	Horizontal
7355.77	43.69	43.50	11.40	35.50	3.40	47.09	54.00	-6.91	AV	Horizontal

Remark:

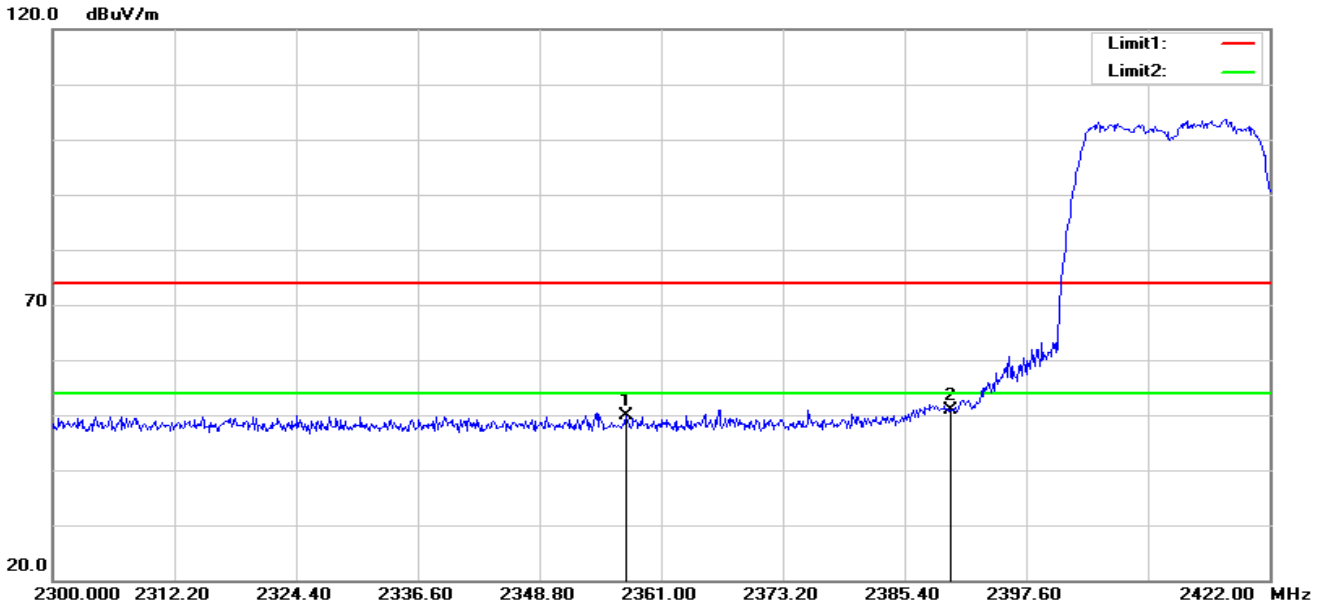
- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Scan with 802.11b, 802.11g, 802.11n (HT-20), 802.11n (HT-40) the worst case is 802.11n (HT-40).
Emission Level = Reading + Factor
Margin = Limit - Emission Level
- The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



3.2.6 TEST RESULTS(Restricted band Requirements)

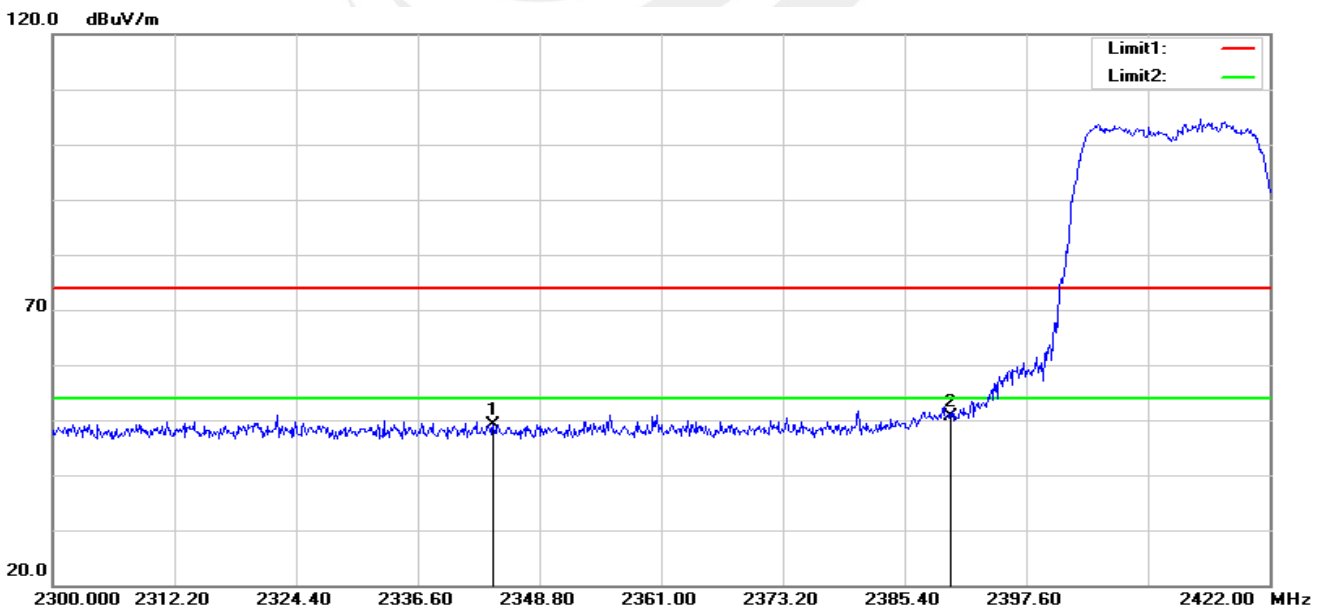
802.11n (HT 20)-Low

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2357.462	60.67	-10.69	49.98	74.00	-24.02	peak
2	2390.000	61.44	-10.48	50.96	74.00	-23.04	peak

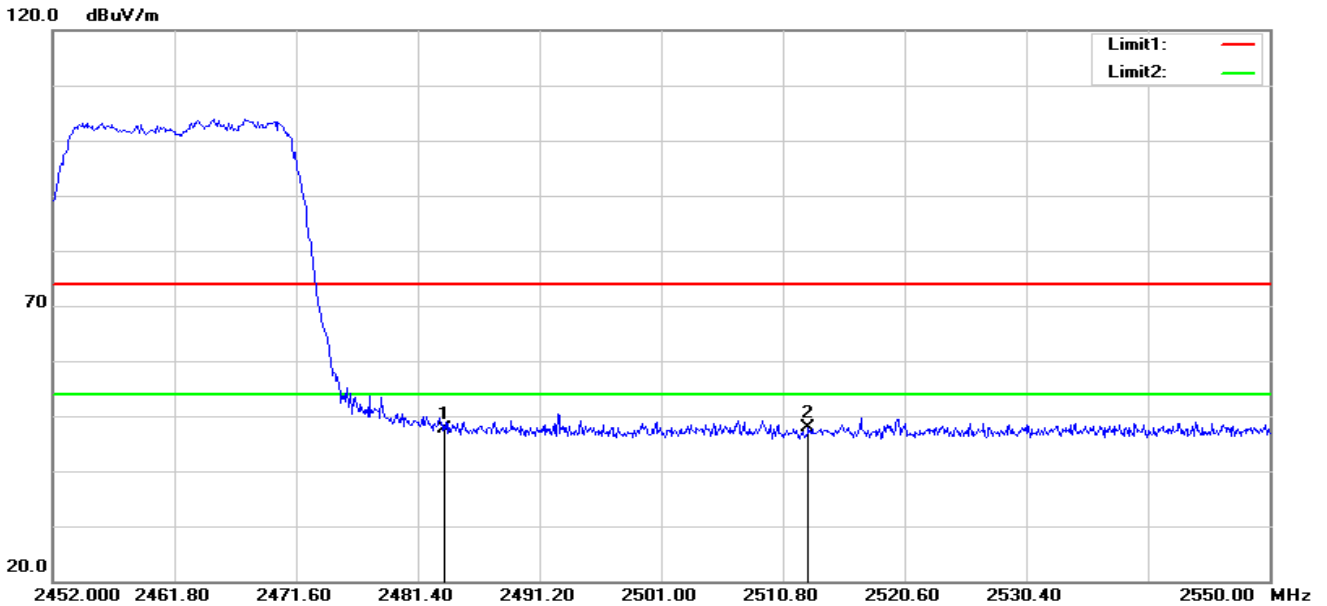
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2344.164	59.86	-10.78	49.08	74.00	-24.92	peak
2	2390.000	61.22	-10.48	50.74	74.00	-23.26	peak

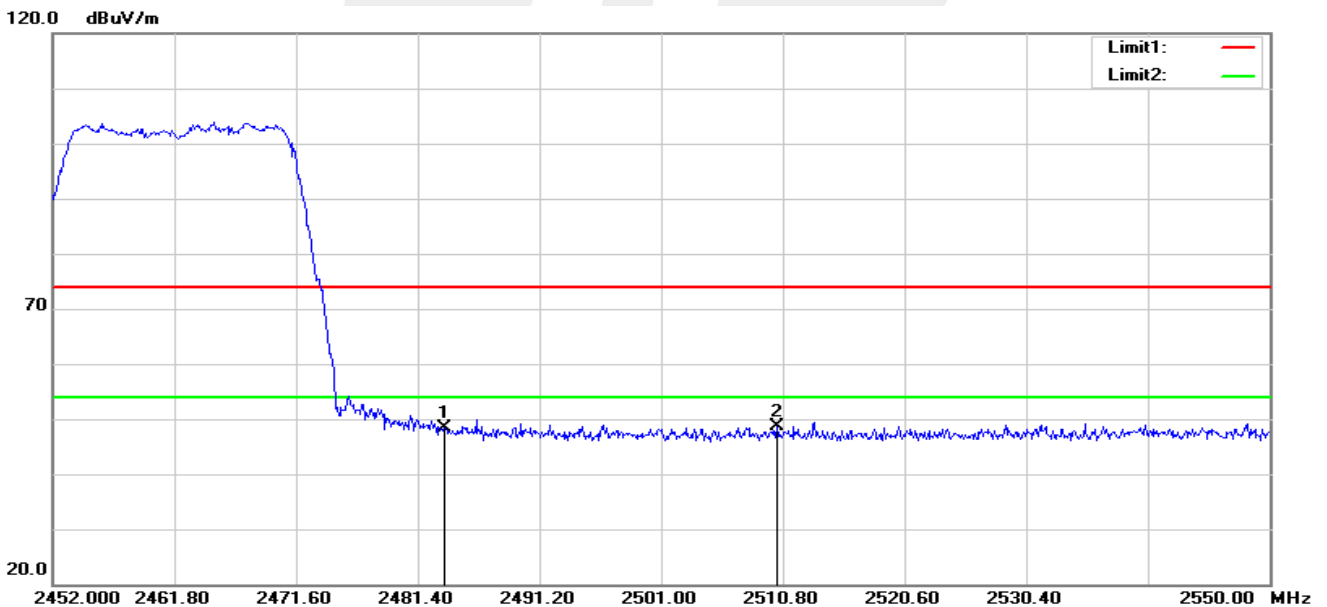


802.11n (HT 20)-High
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	57.52	-9.99	47.53	74.00	-26.47	peak
2	2512.858	57.66	-9.87	47.79	74.00	-26.21	peak

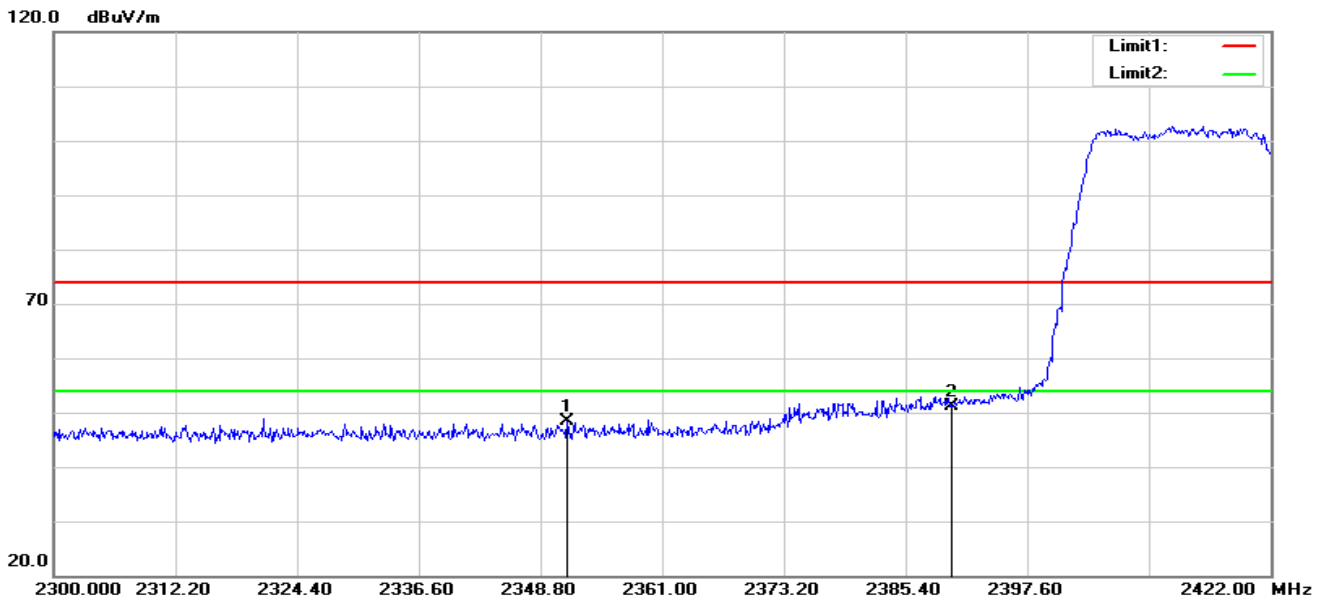
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	58.48	-9.99	48.49	74.00	-25.51	peak
2	2510.310	58.47	-9.88	48.59	74.00	-25.41	peak

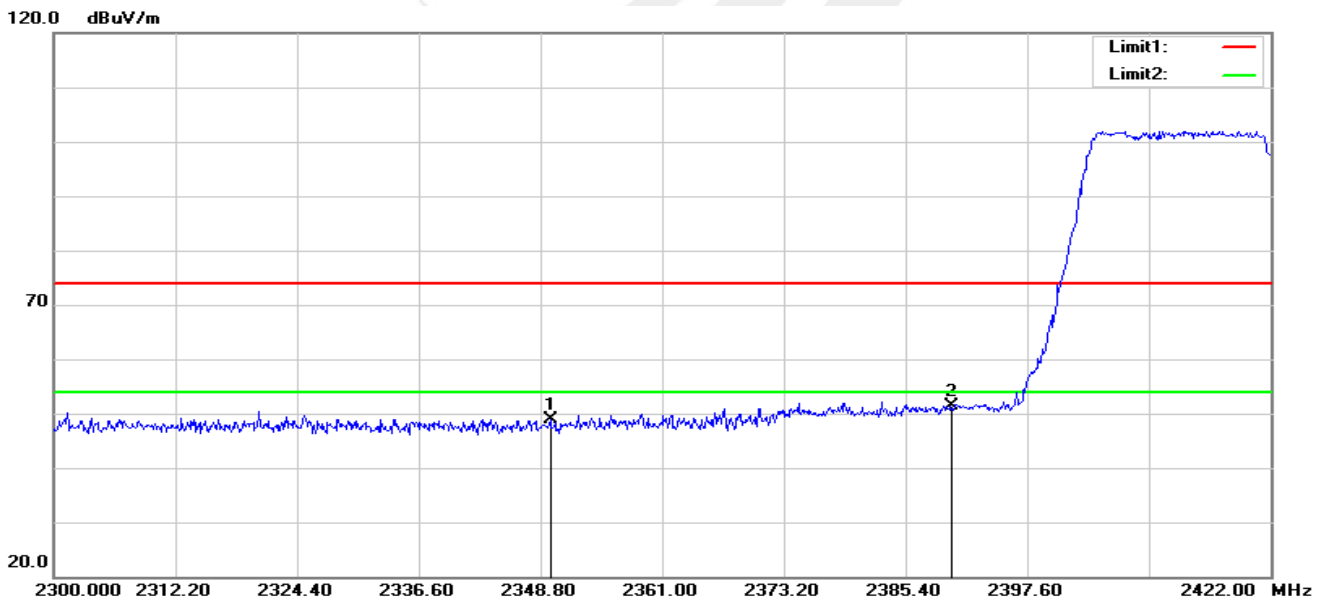


802.11n (HT 40)-Low
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2351.484	59.05	-10.73	48.32	74.00	-25.68	peak
2	2390.000	61.56	-10.48	51.08	74.00	-22.92	peak

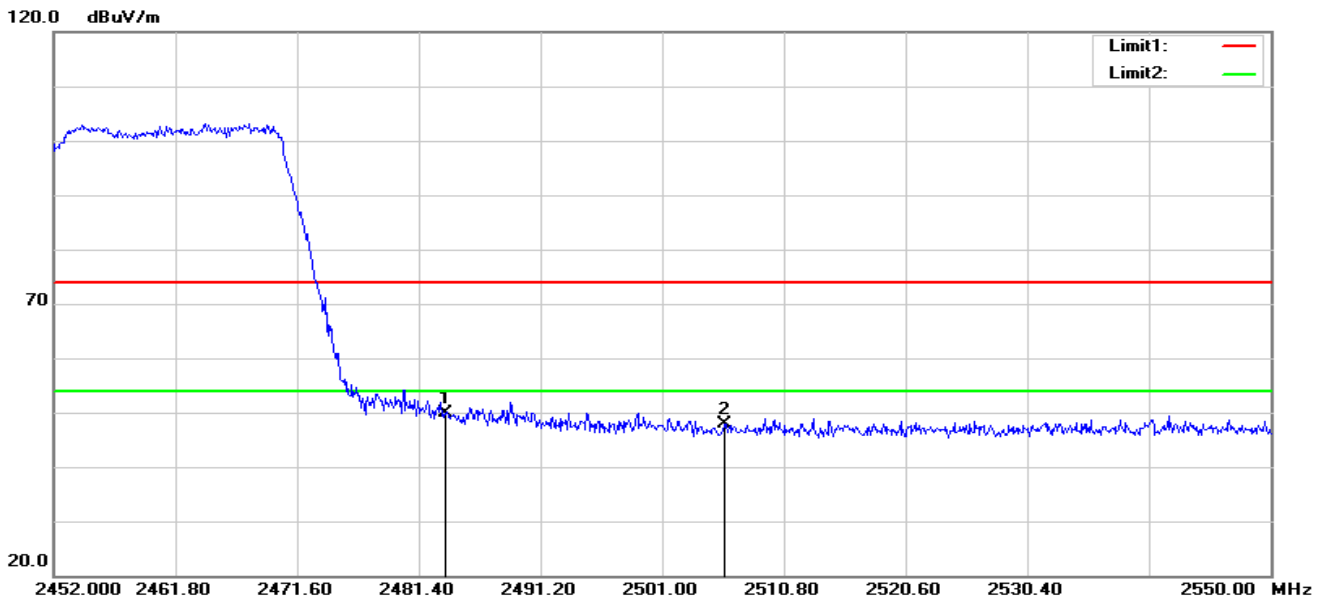
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2349.776	59.63	-10.75	48.88	74.00	-25.12	peak
2	2390.000	61.98	-10.48	51.50	74.00	-22.50	peak

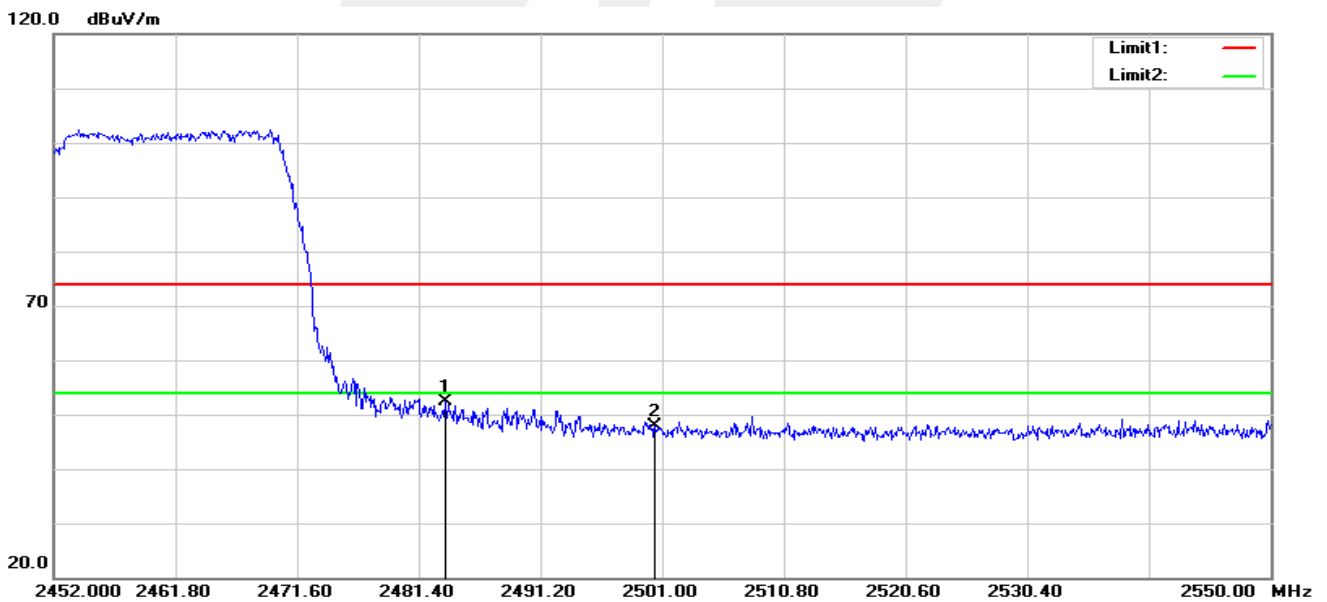


802.11n (HT 40)-High
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	59.82	-9.99	49.83	74.00	-24.17	peak
2	2505.998	57.83	-9.89	47.94	74.00	-26.06	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	62.26	-9.99	52.27	74.00	-21.73	peak
2	2500.412	57.72	-9.91	47.81	74.00	-26.19	peak

Note: 802.11b, 802.11g, 802.11n (HT-20), 802.11n (HT-40) mode all have been tested, the worst case is 802.11n (HT-40), only show the worst case.

4.CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

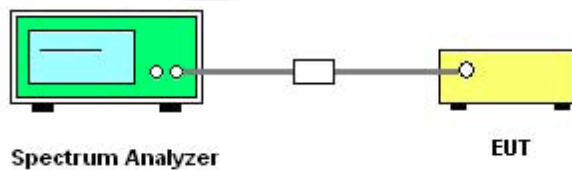
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2412 MHz Upper Band Edge: 2462to 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

4.3DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

4.5 EUT OPERATION CONDITIONS

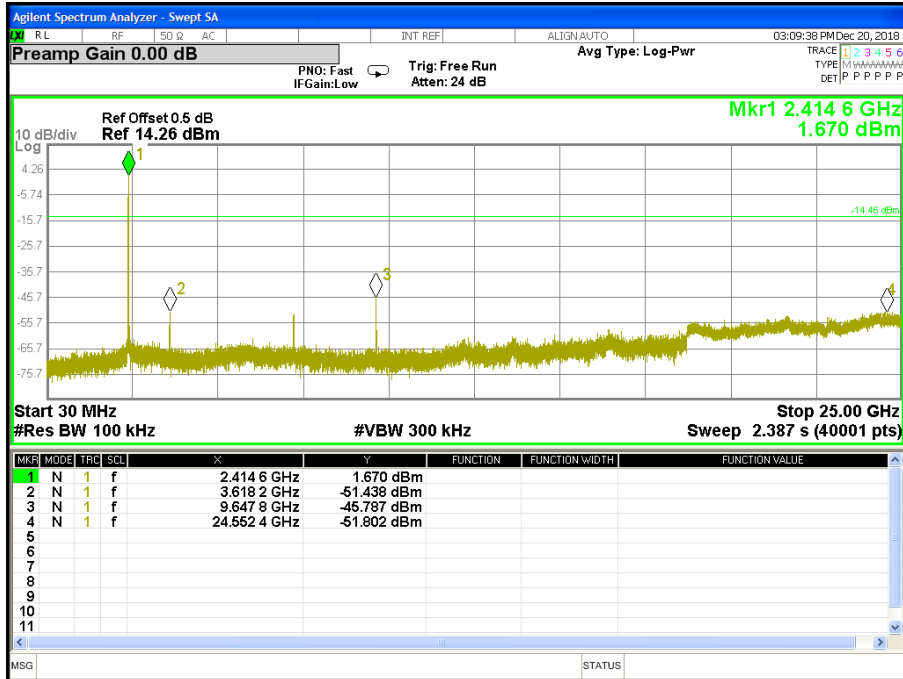
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



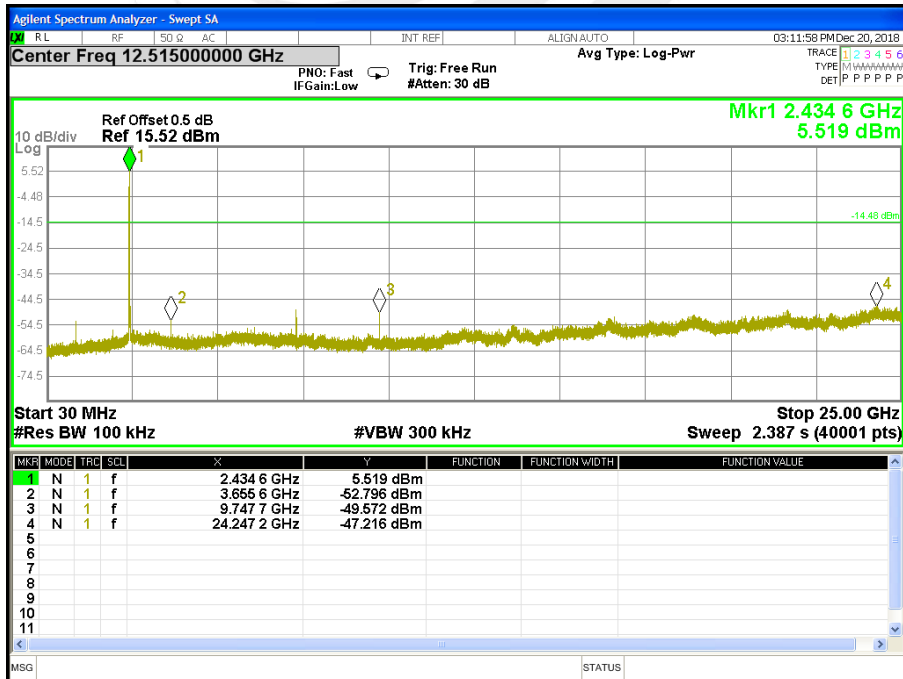
4.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Test Mode:	TX b Mode /CH01, CH06, CH11

CH 01

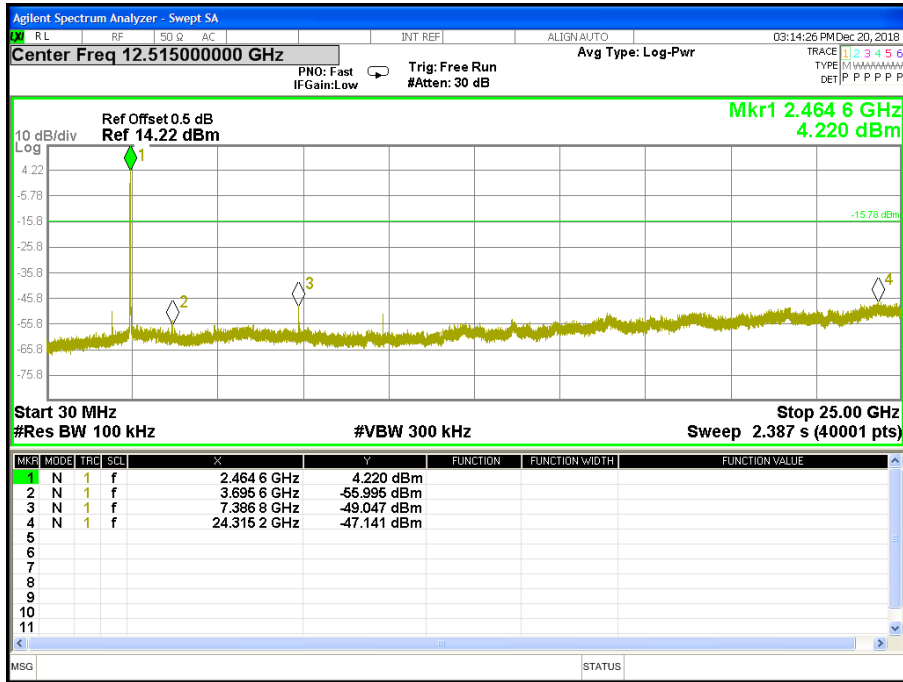


CH 06





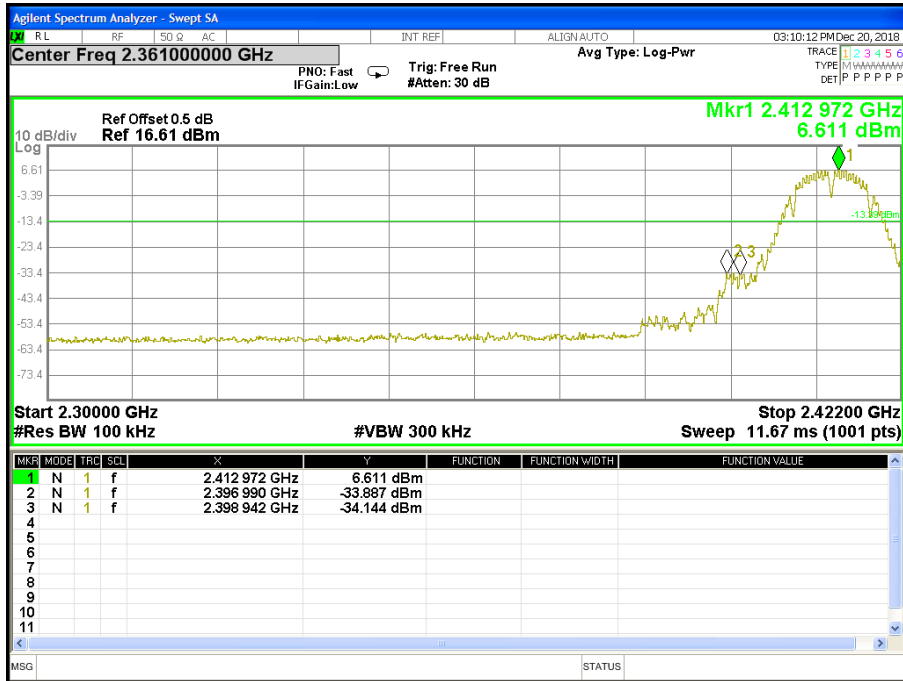
CH 11



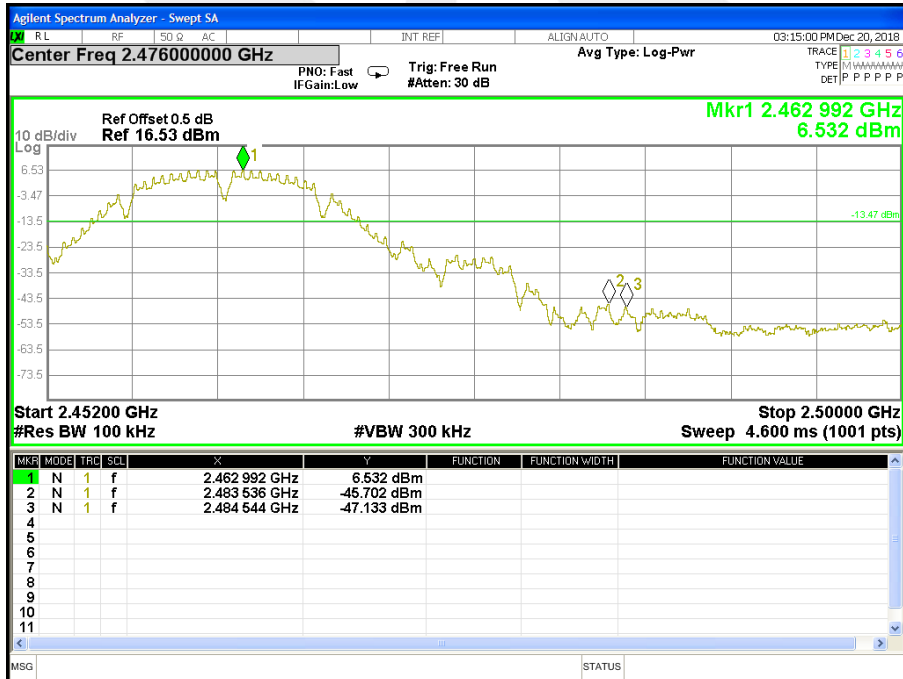


Band edge

CH 01



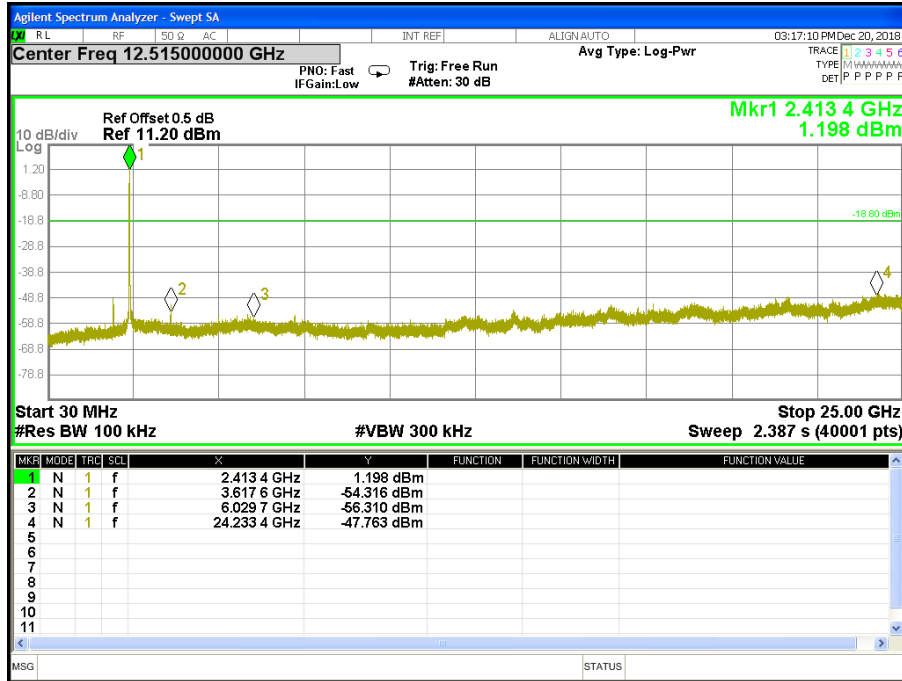
CH 11



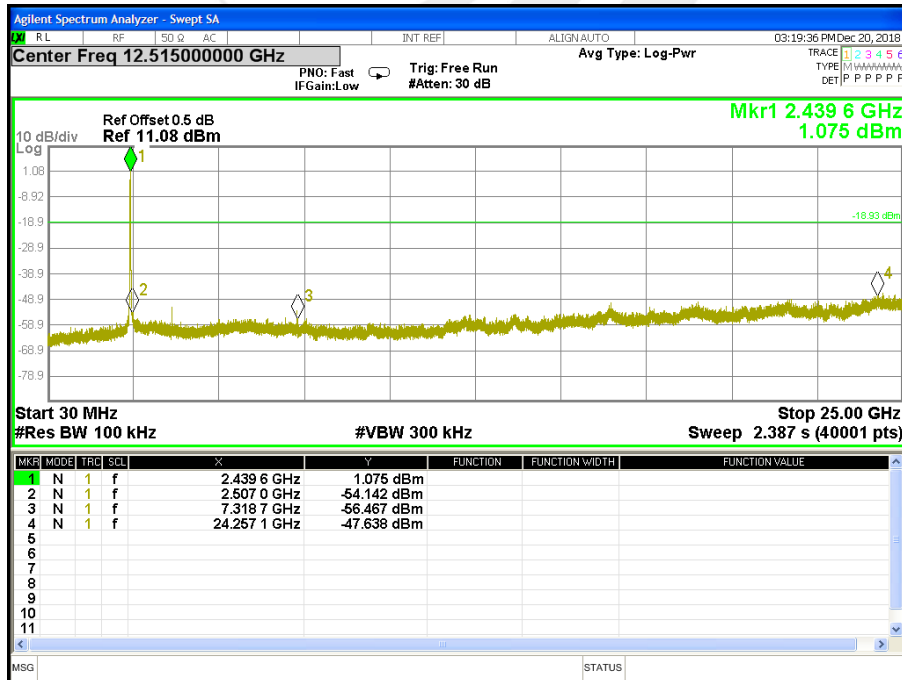


Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Test Mode:	TX g Mode /CH01, CH06, CH11

CH 01

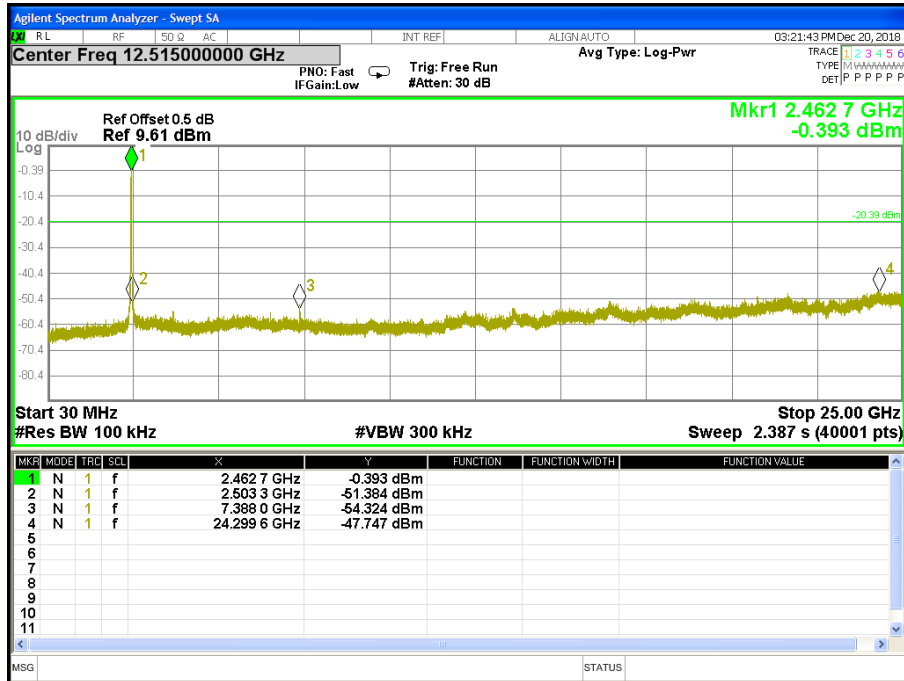


CH06





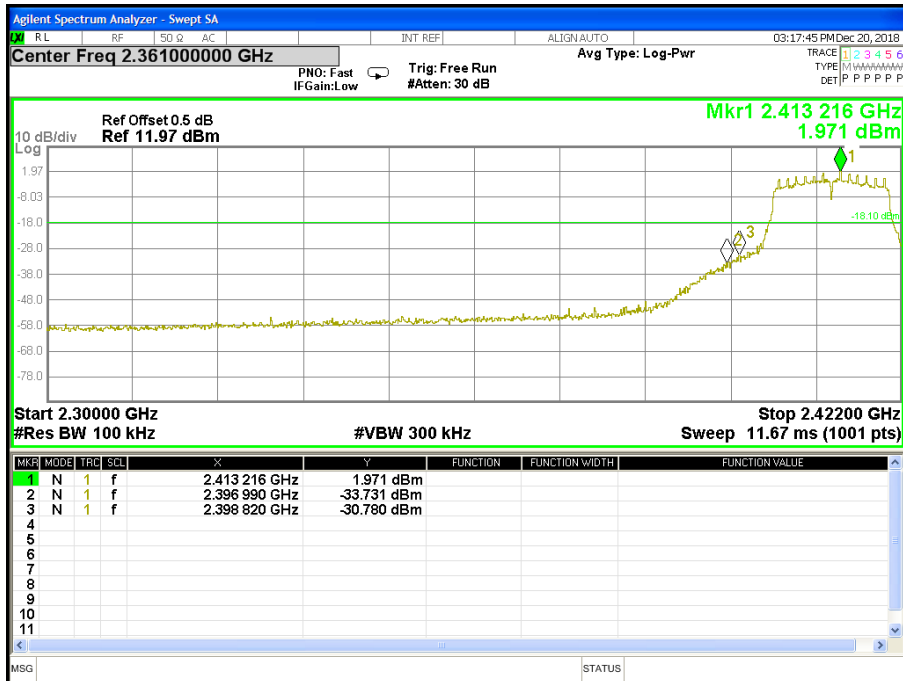
CH 11



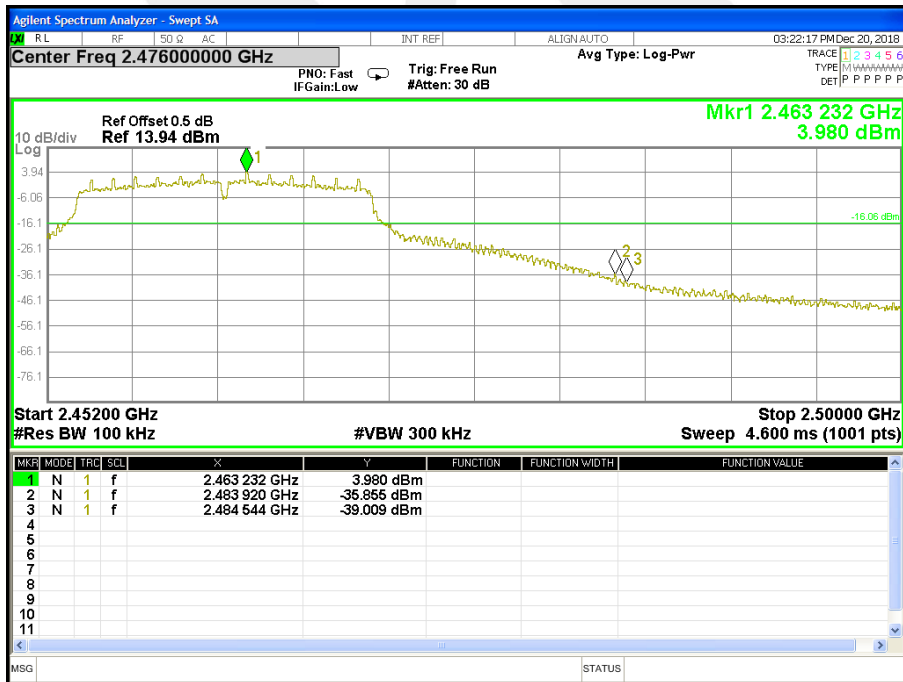


Band edge

CH 01



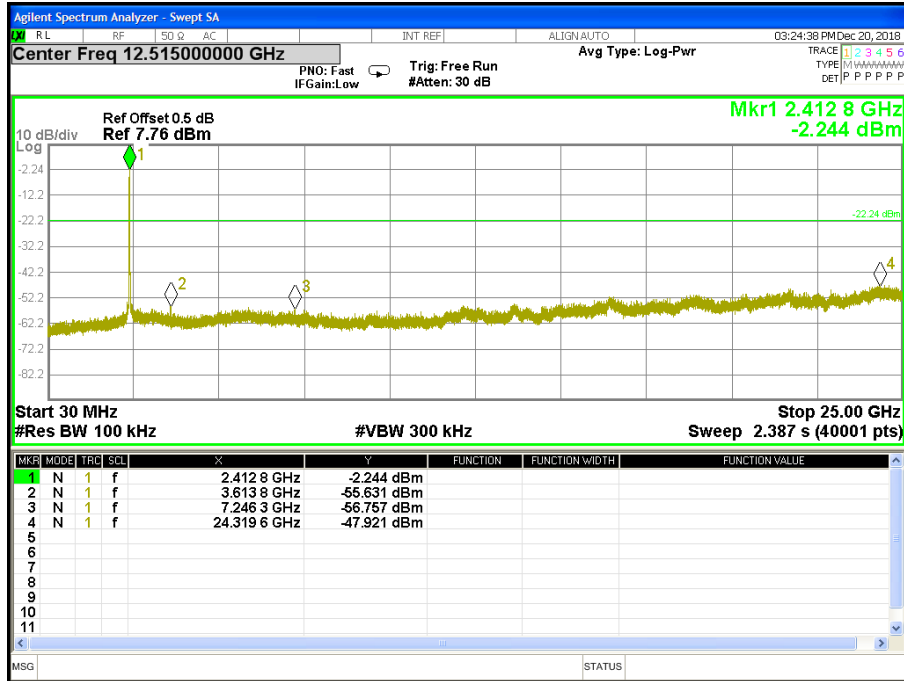
CH11



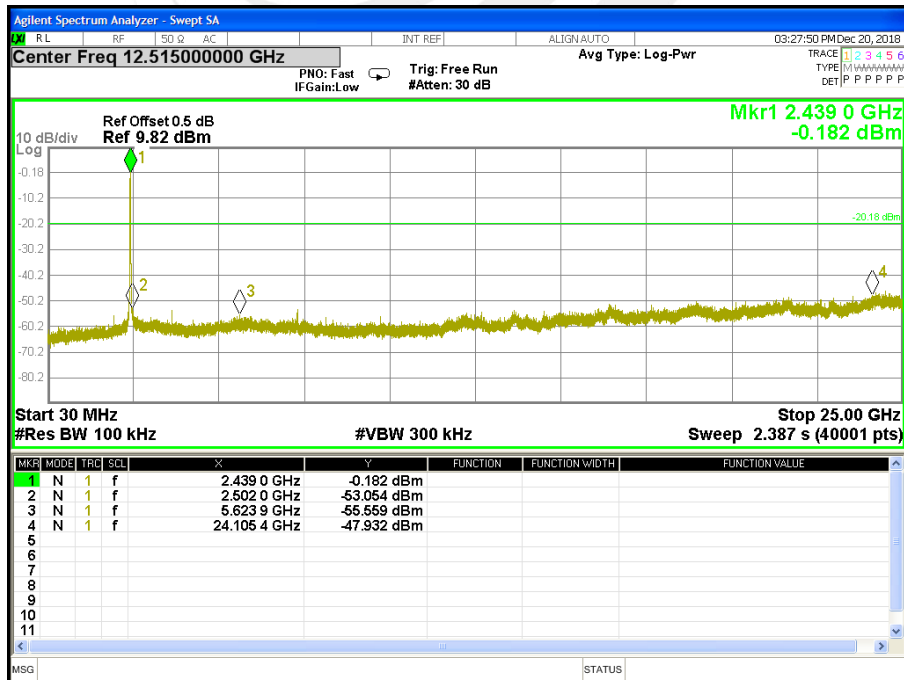


Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

CH 01

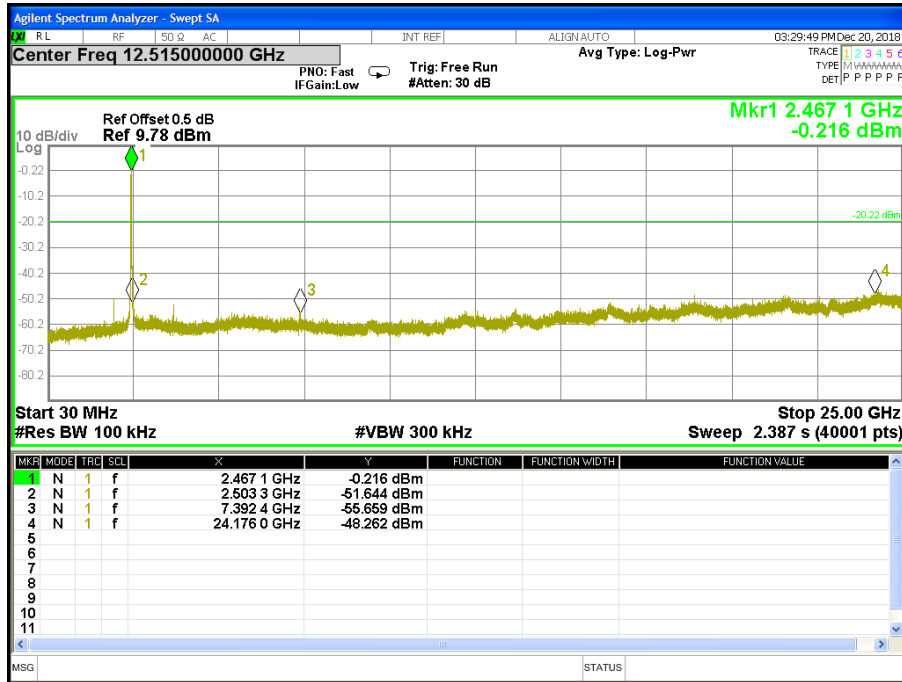


CH 06





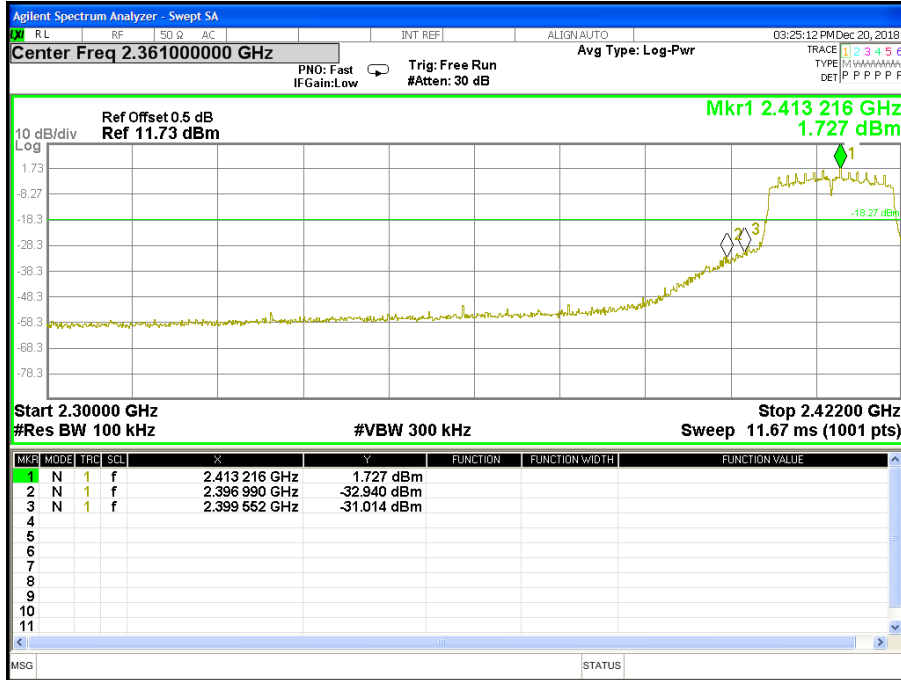
CH 11



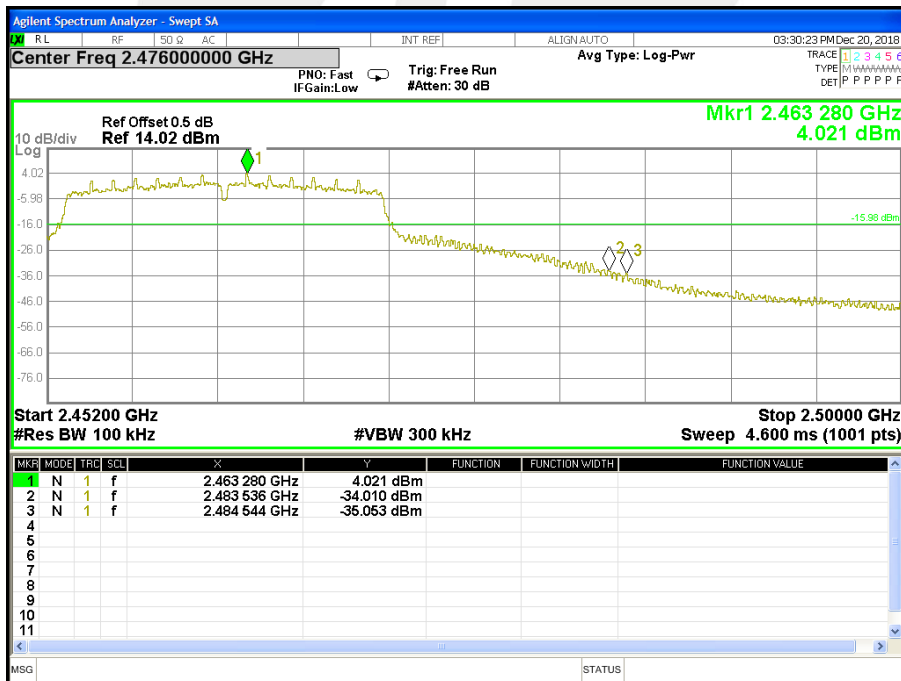


Band edge

CH 01



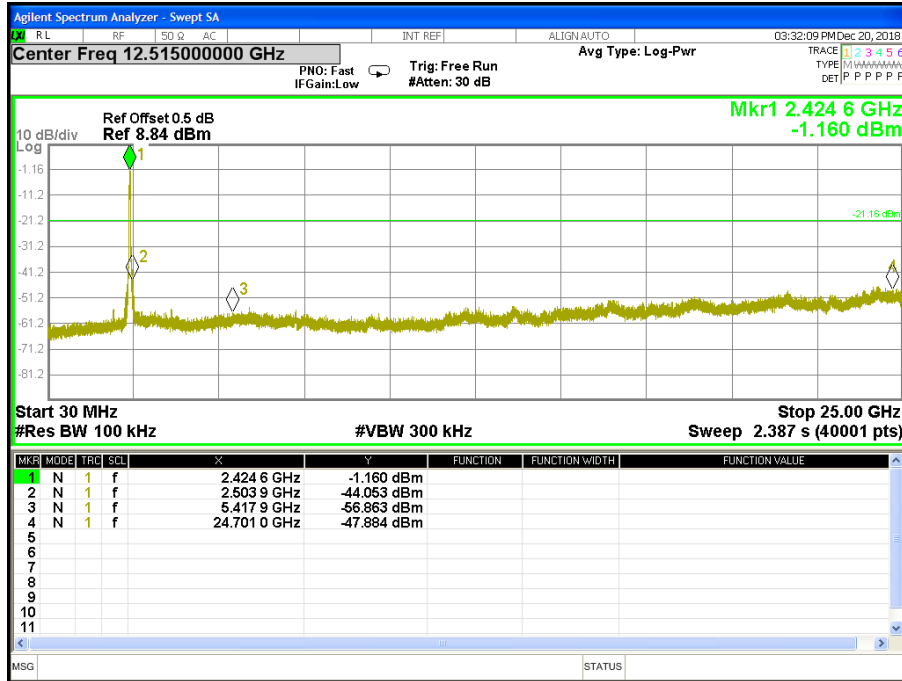
CH 11





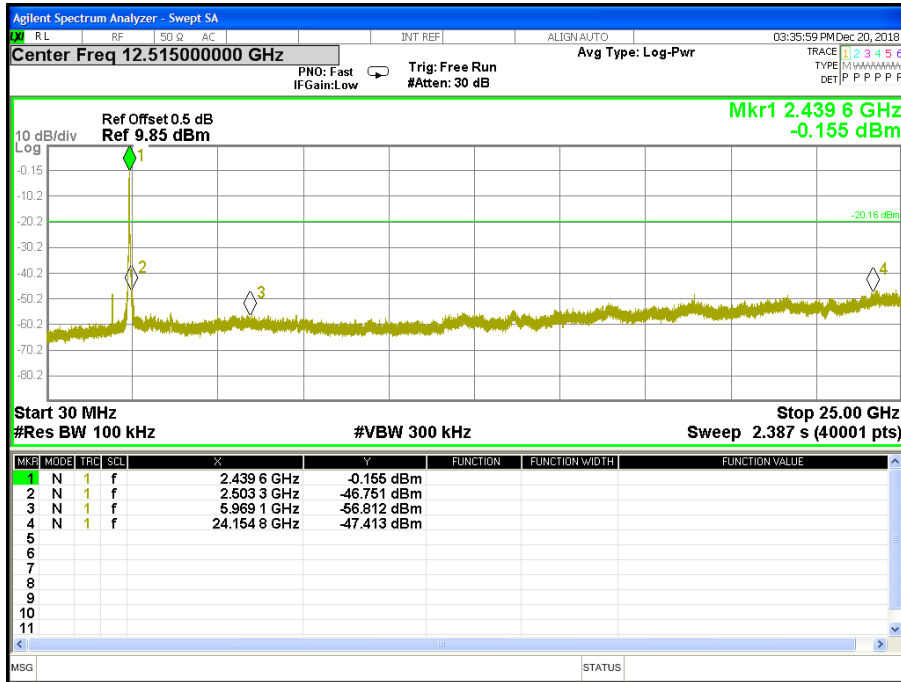
Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

CH 03

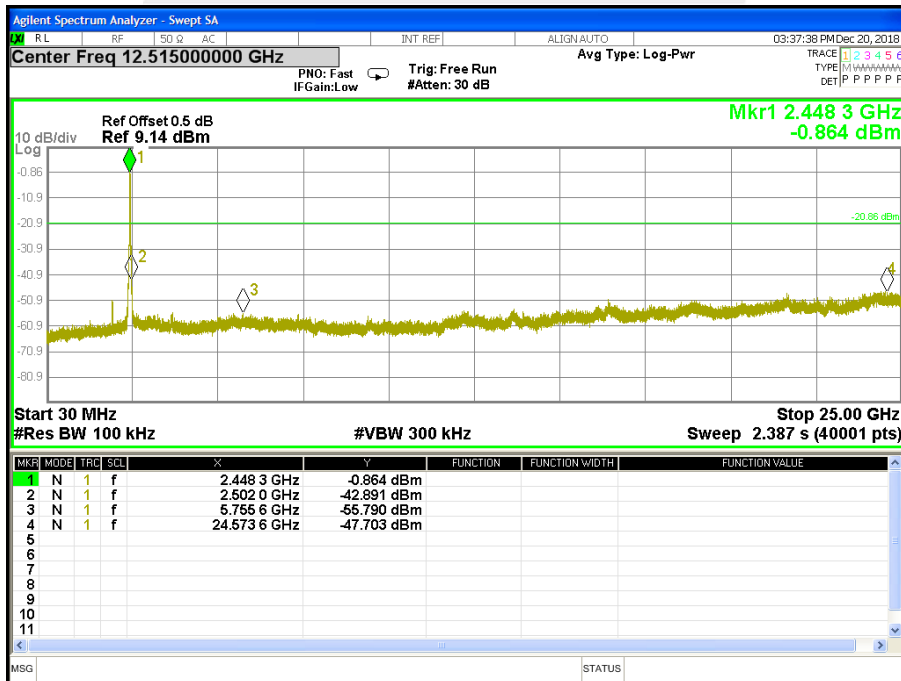




CH06



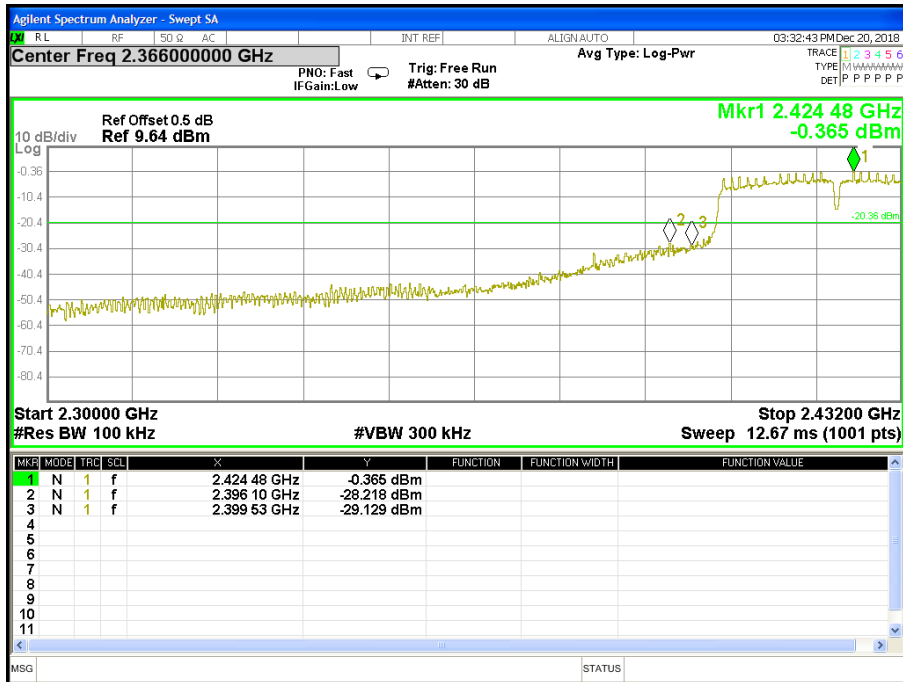
CH09



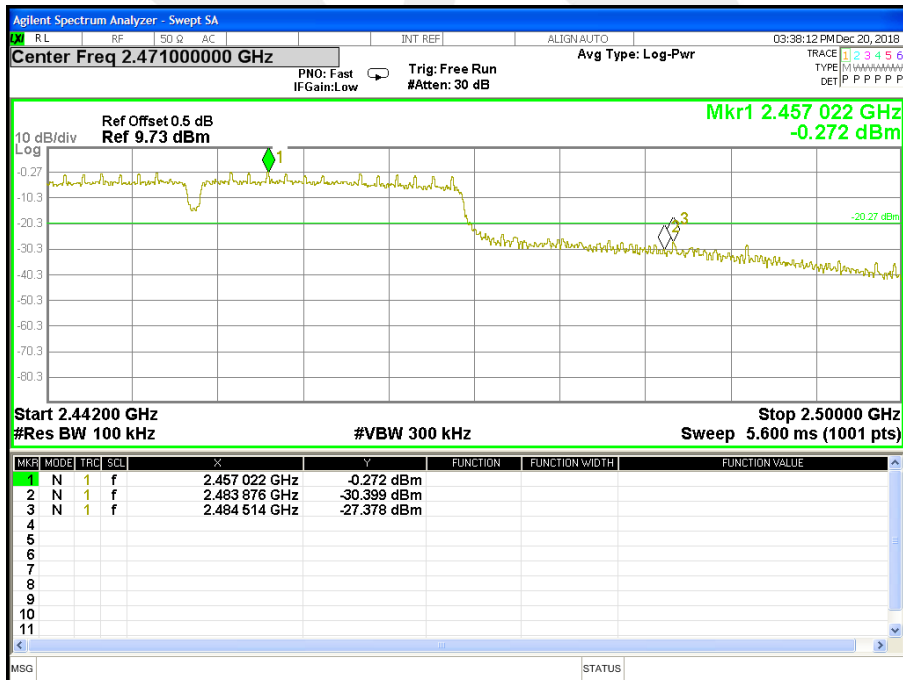


Band edge

CH03



CH 09





5. POWER SPECTRAL DENSITY TEST

5.1 LIMIT

FCC Part15.247 , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤ 8 dBm (RBW ≥ 3 KHz)	2400-2483.5	PASS

5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$.
4. Set the $\text{VBW} \geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

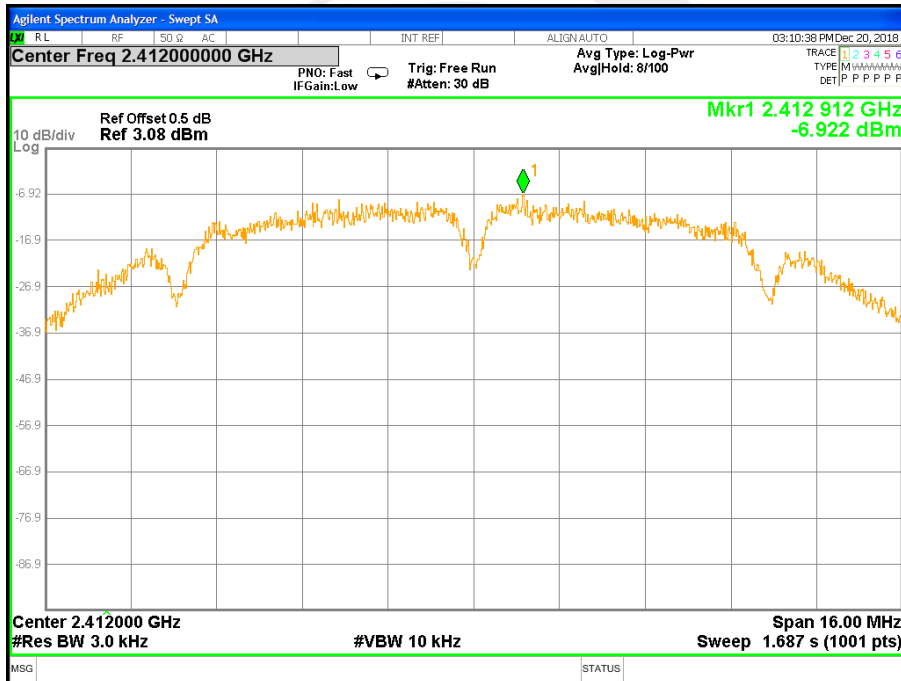


5.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Test Mode:	TX b Mode /CH01, CH06, CH11

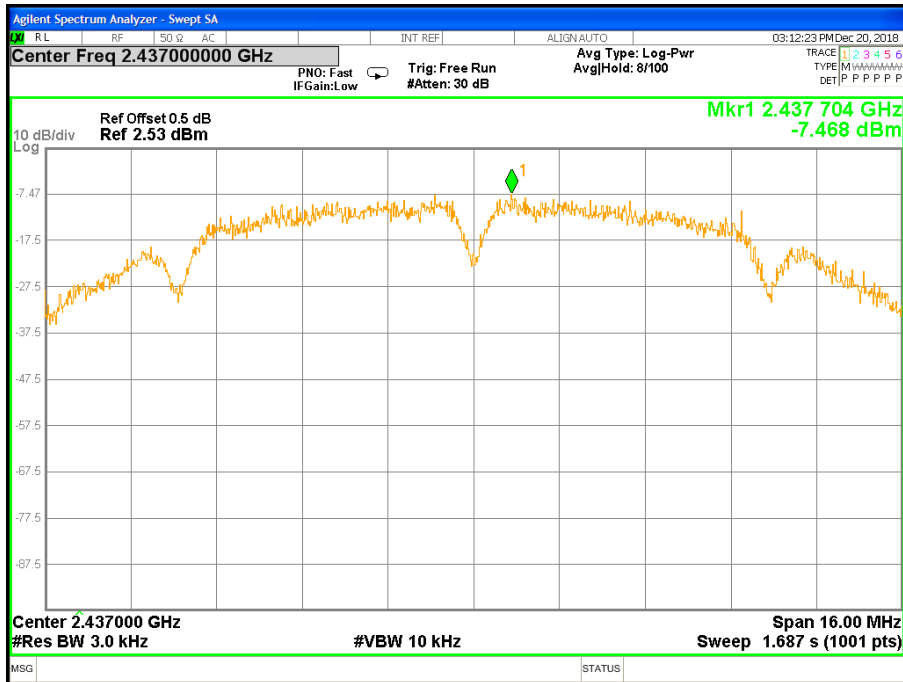
Frequency	Power Density	Limit (dBm/3KHz)	Result
	(dBm/3kHz)		
2412 MHz	-6.922	≤8	PASS
2437 MHz	-7.468	≤8	PASS
2462 MHz	-7.826	≤8	PASS

TX CH01

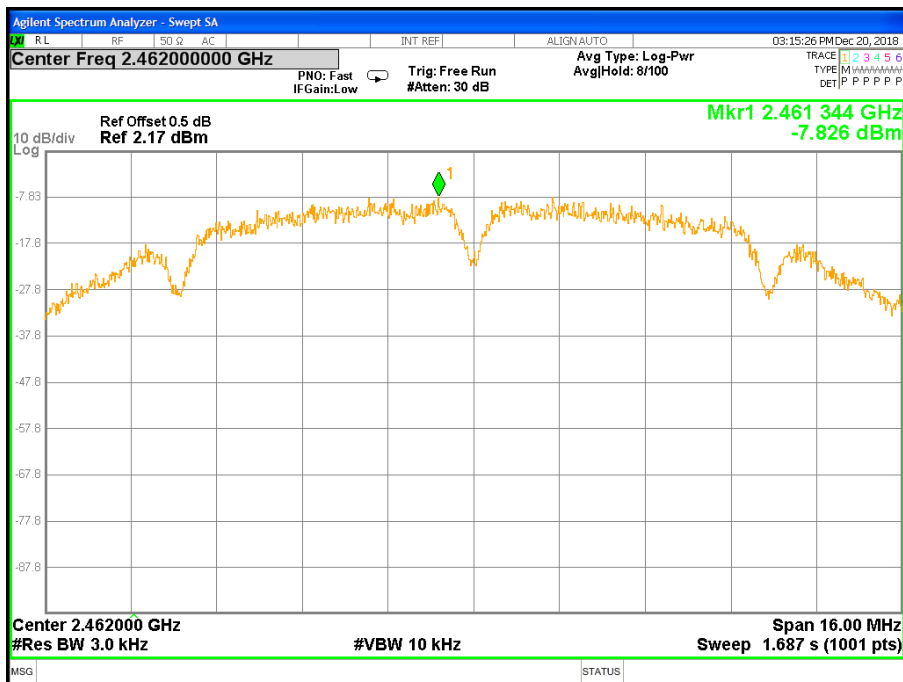




TX CH06



TX CH11

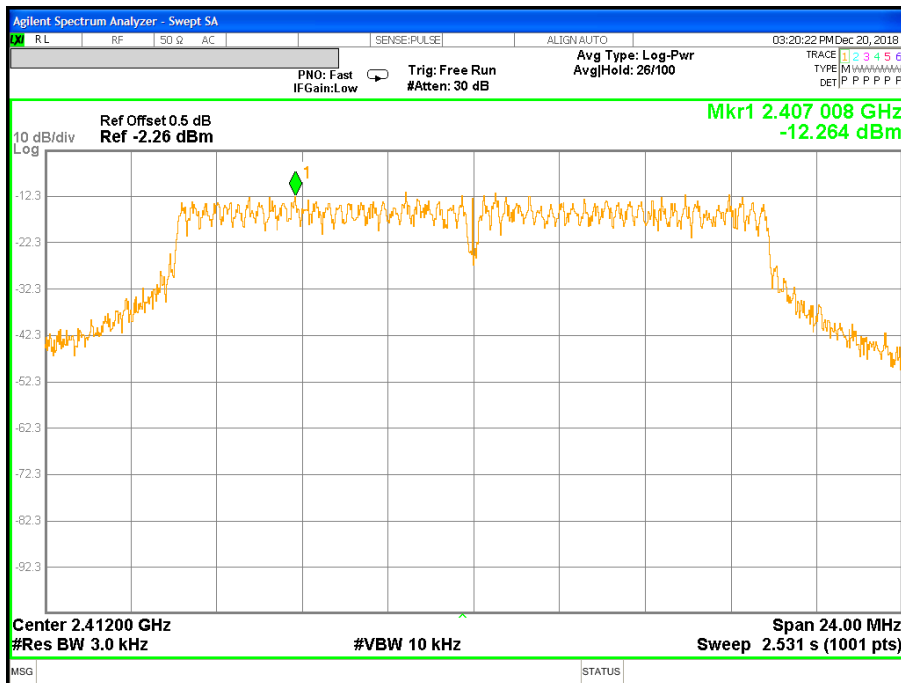




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Test Mode:	TX g Mode /CH01, CH06, CH11

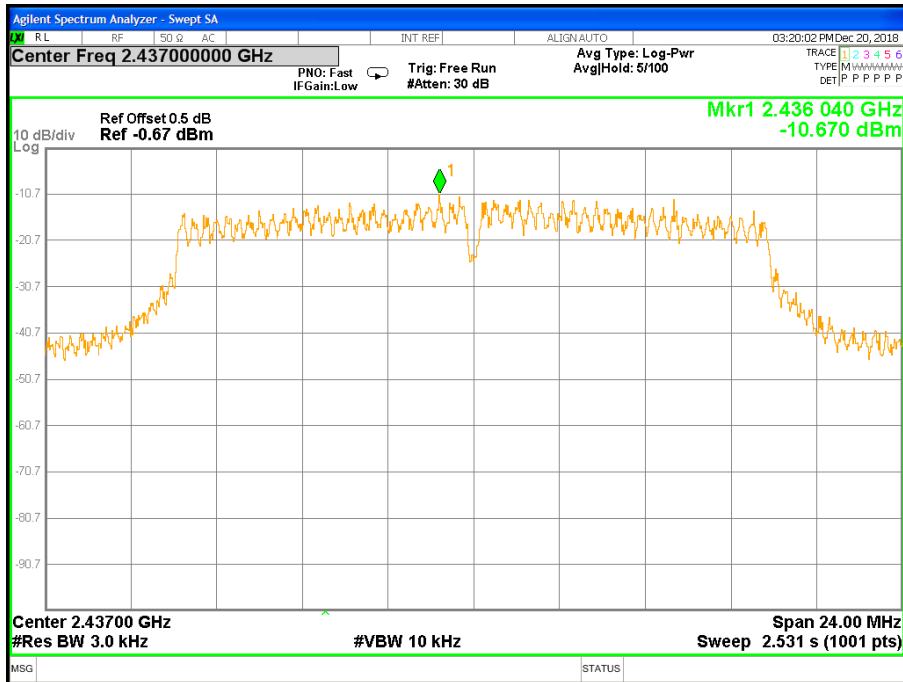
Frequency	Power Density	Limit (dBm/3KHz)	Result
	(dBm/3kHz)		
2412 MHz	-12.264	≤8	PASS
2437 MHz	-10.67	≤8	PASS
2462 MHz	-9.602	≤8	PASS

TX CH01

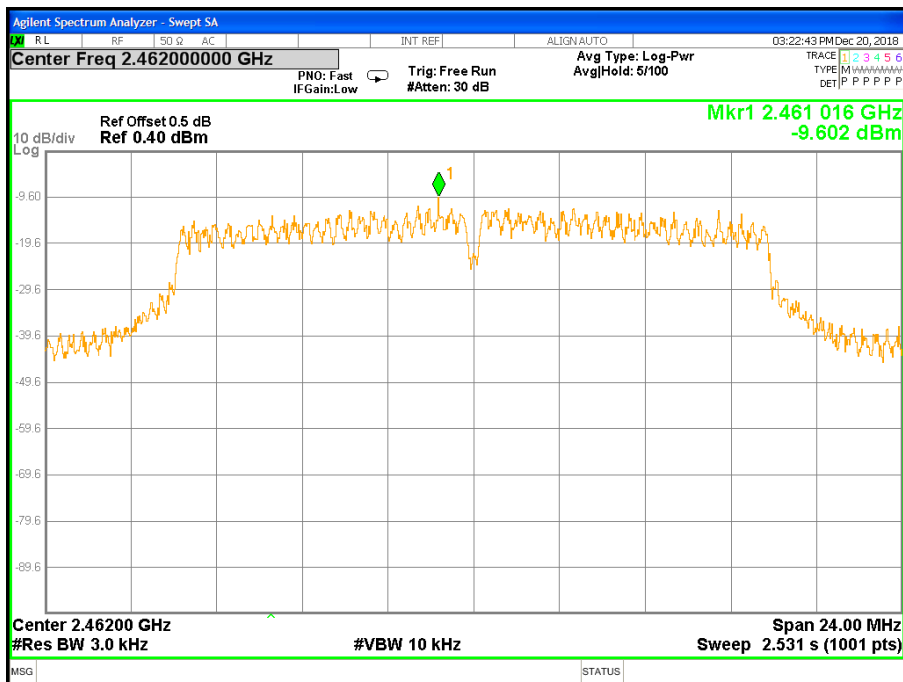




TX CH06



TX CH11

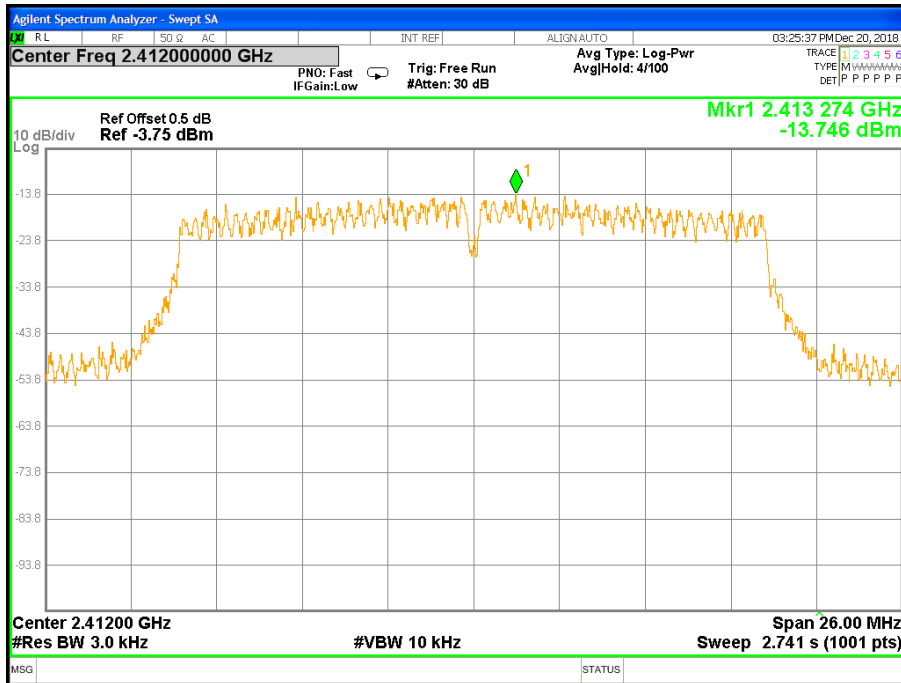




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

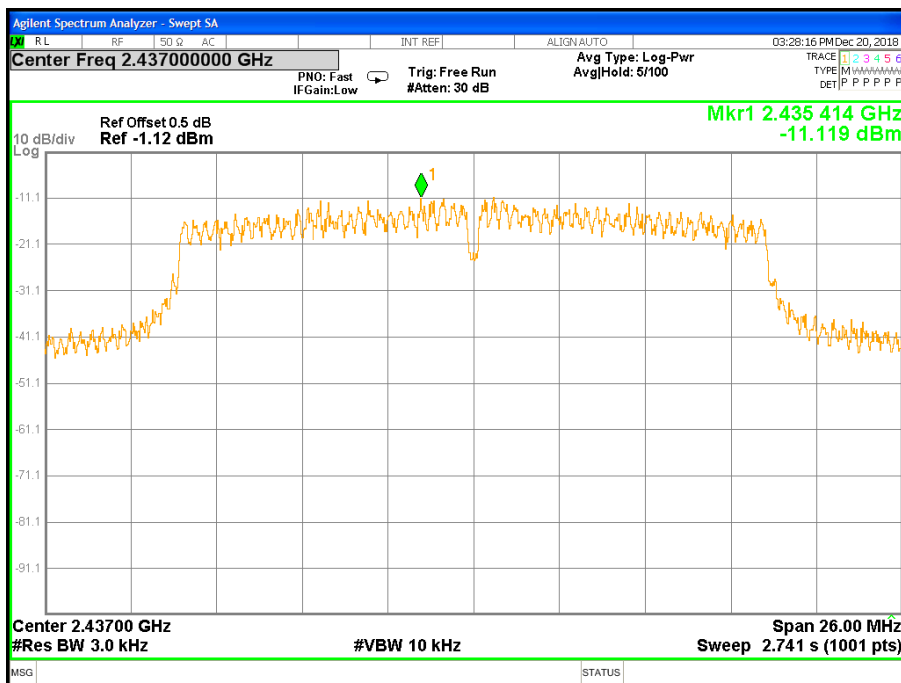
Frequency	Power Density	Limit (dBm/3KHz)	Result
	(dBm/3kHz)		
2412 MHz	-13.746	≤8	PASS
2437 MHz	-11.119	≤8	PASS
2462 MHz	-11.303	≤8	PASS

TX CH01

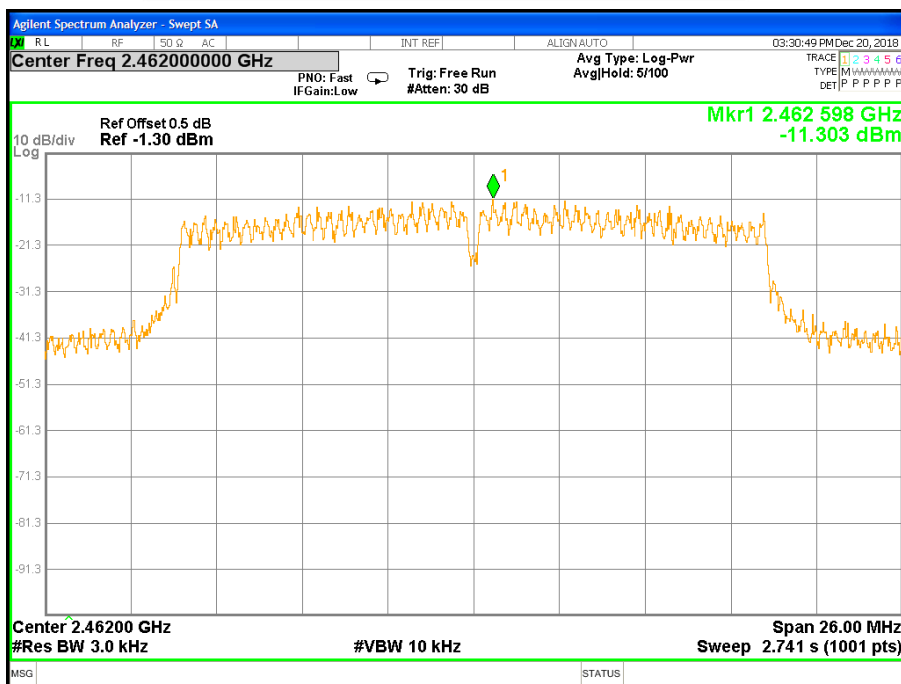




TX CH06



TX CH11

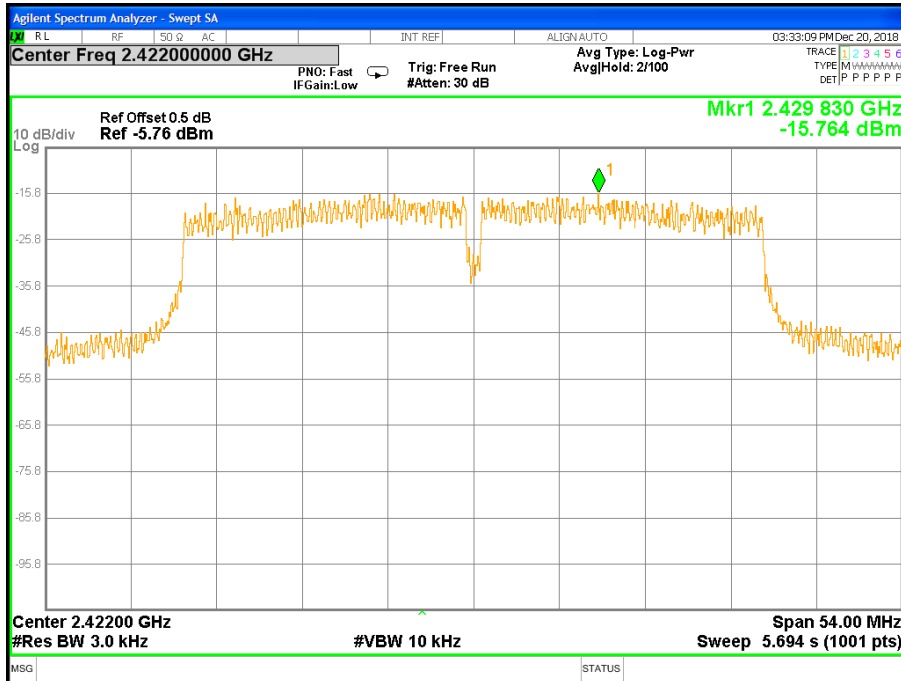




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

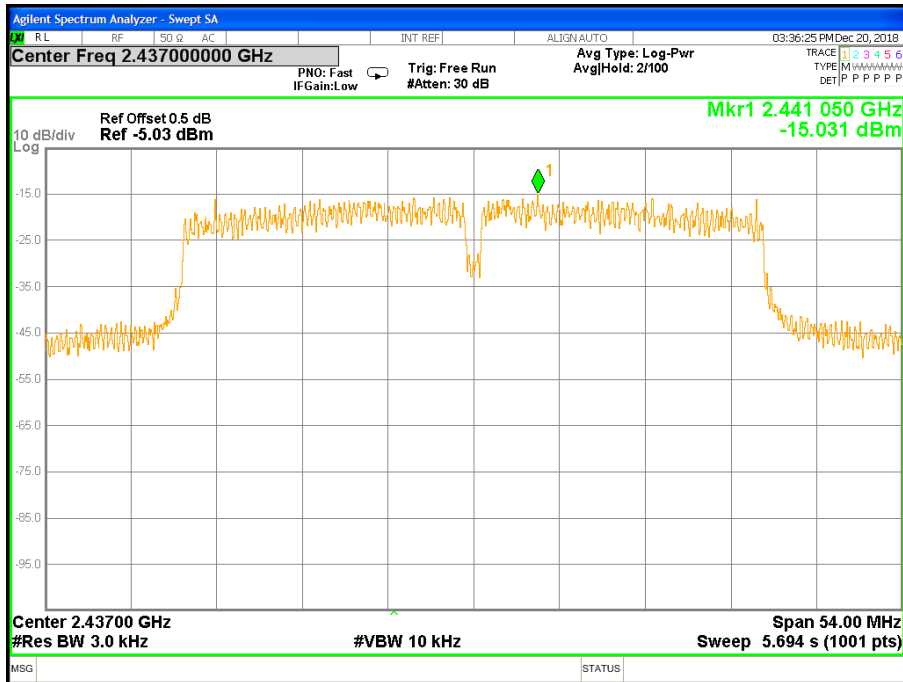
Frequency	Power Density	Limit (dBm/3KHz)	Result
	(dBm/3kHz)		
2422 MHz	-15.764	≤8	PASS
2437 MHz	-15.031	≤8	PASS
2452 MHz	-14.964	≤8	PASS

TX CH03

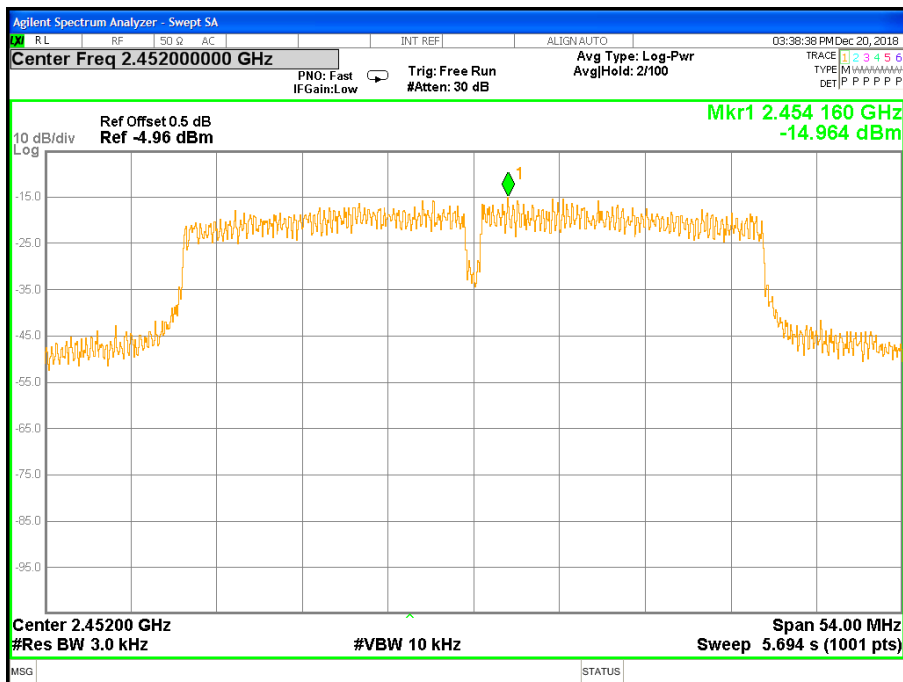




TX CH06



TX CH09





6. BANDWIDTH TEST

6.1 LIMIT

FCC Part15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



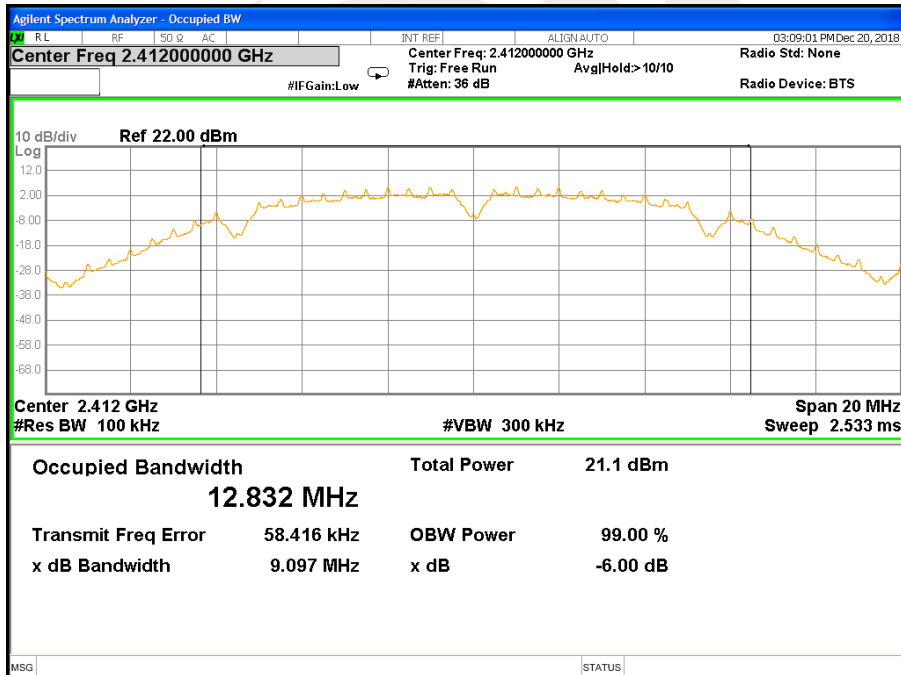
6.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Test Mode:	TX b Mode /CH01, CH06, CH11

Remark: PEAK DETECTOR IS USED

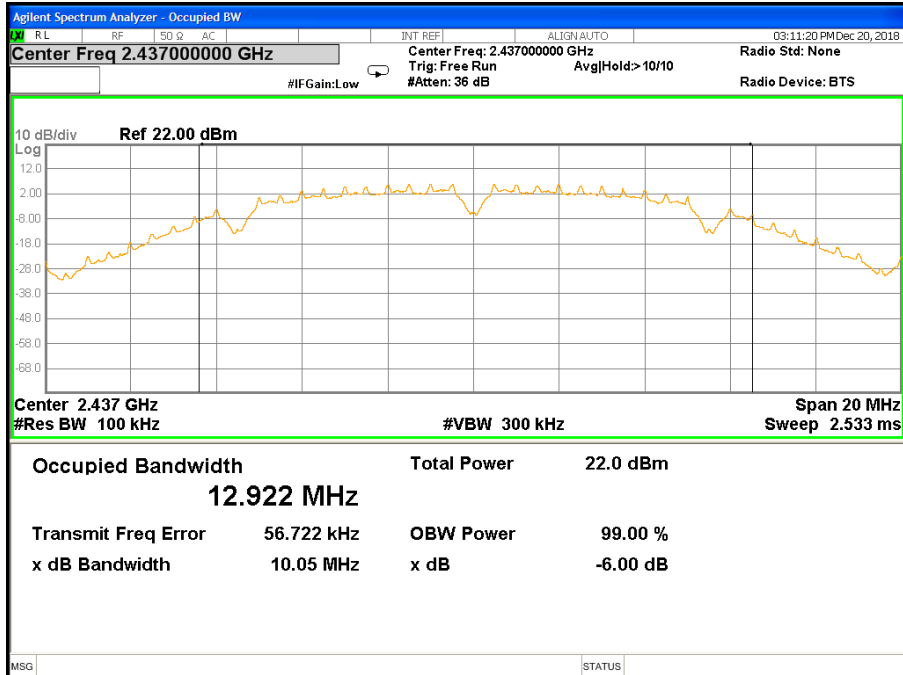
Frequency	6dB Bandwidth	Channel Separation	Result
	(MHz)	(KHz)	
2412 MHz	9.097	≥500KHz	PASS
2437 MHz	10.05	≥500KHz	PASS
2462 MHz	9.097	≥500KHz	PASS

TX CH 01

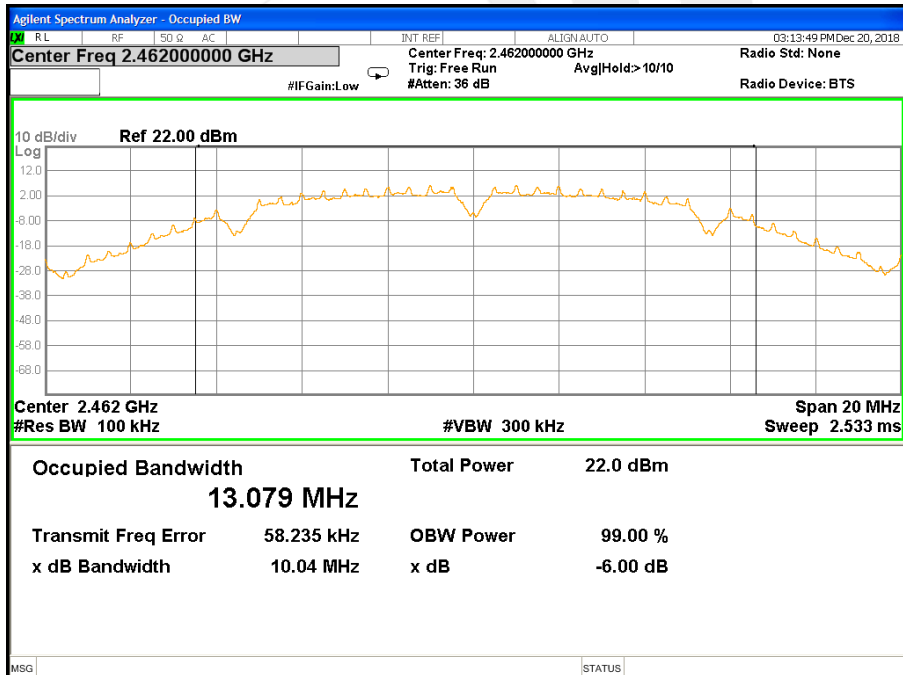




TX CH 06



TX CH 11

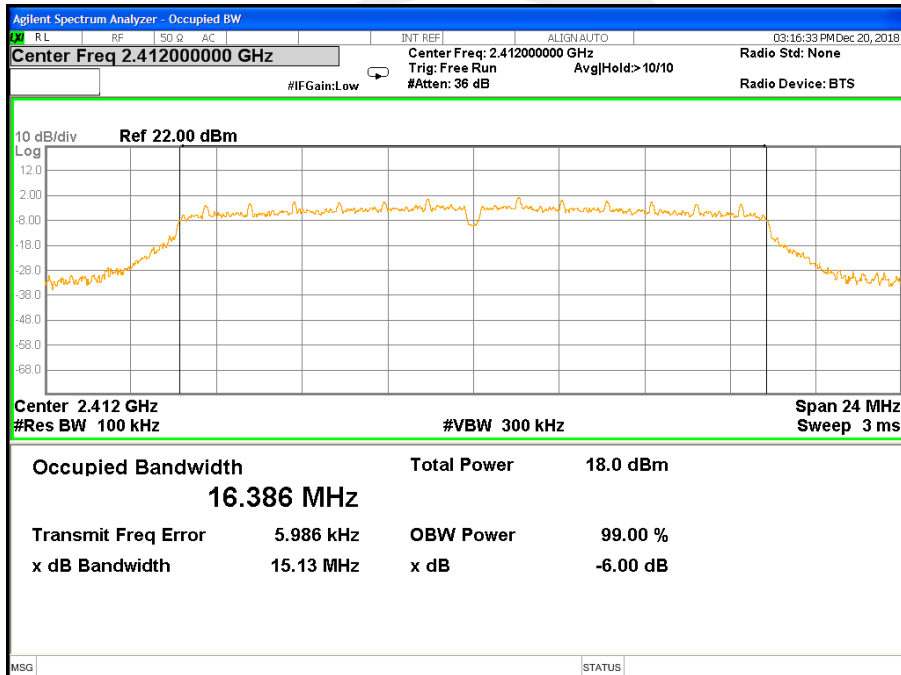




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Test Mode:	TX g Mode /CH01, CH06, CH11

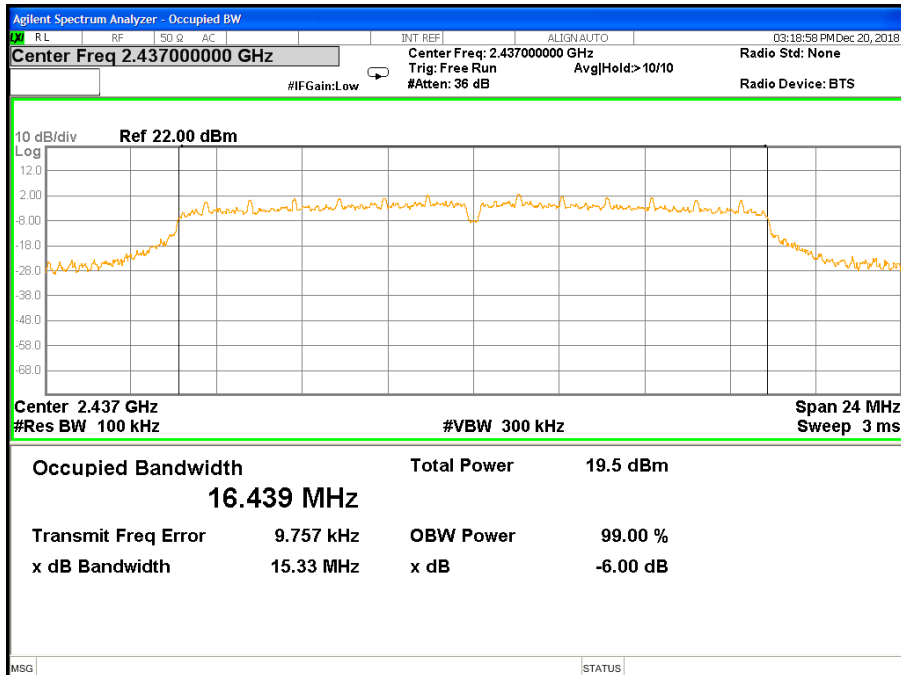
Frequency	6dB Bandwidth	Channel Separation	Result
	(MHz)	(KHz)	
2412 MHz	15.13	≥500KHz	PASS
2437 MHz	15.33	≥500KHz	PASS
2462 MHz	15.13	≥500KHz	PASS

TX CH 01

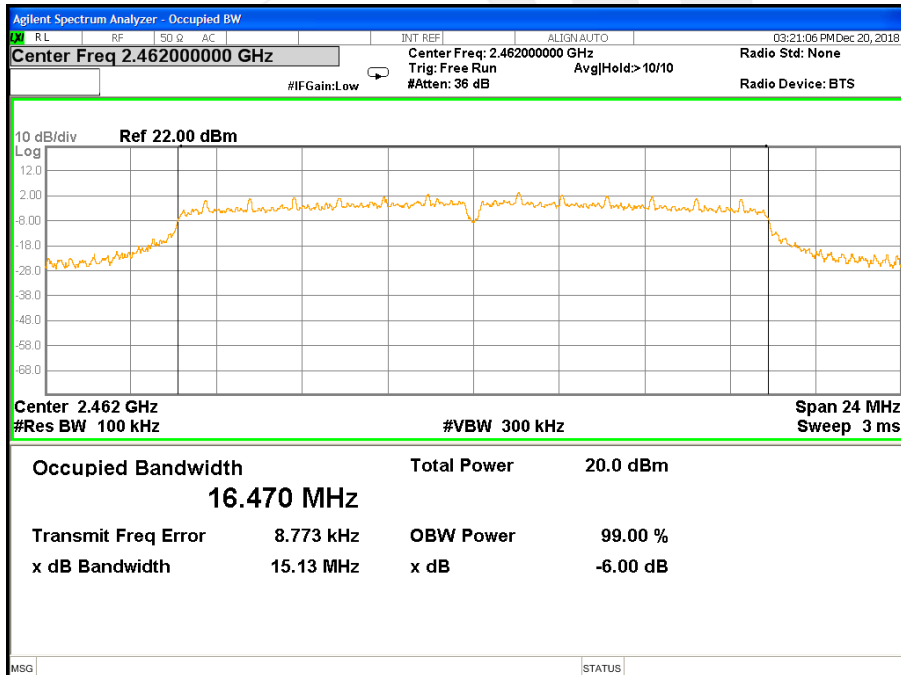




TX CH 06



TX CH 11

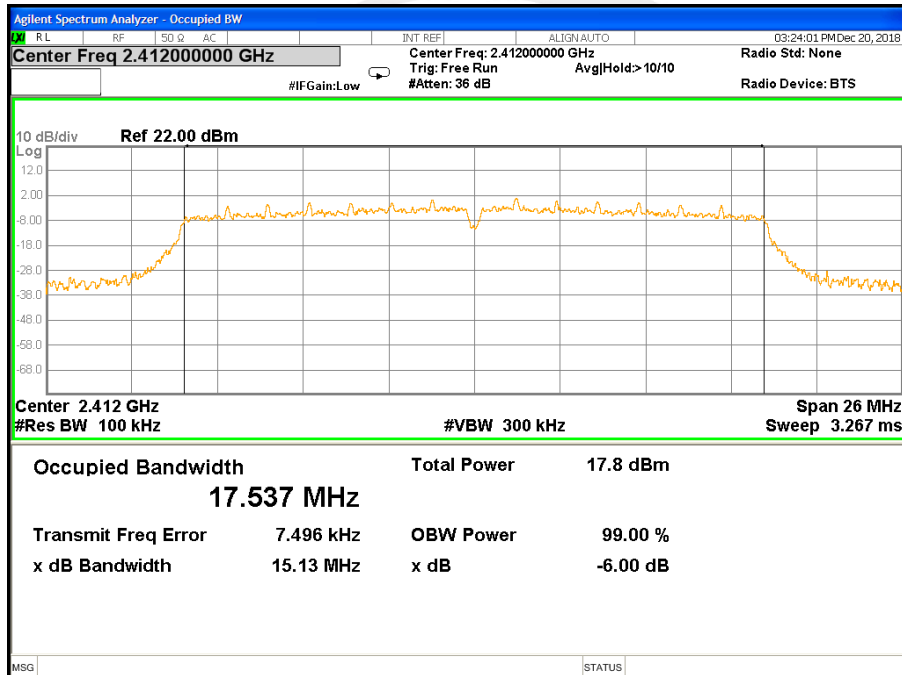




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

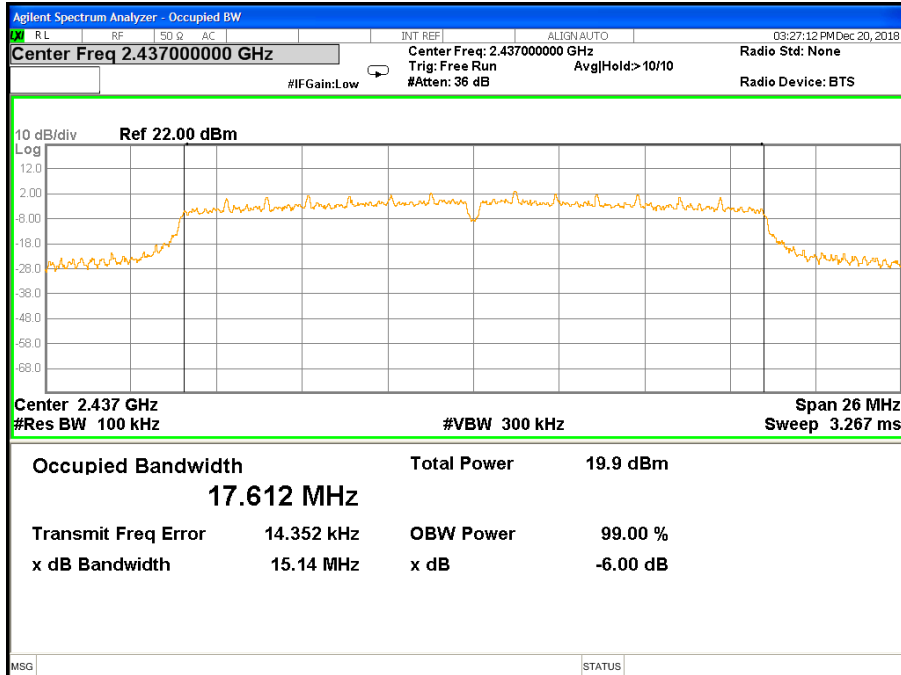
Frequency	6dB Bandwidth	Channel Separation	Result
	(MHz)	(KHz)	
2412 MHz	15.13	≥500KHz	PASS
2437 MHz	15.14	≥500KHz	PASS
2462 MHz	15.13	≥500KHz	PASS

TX CH 01

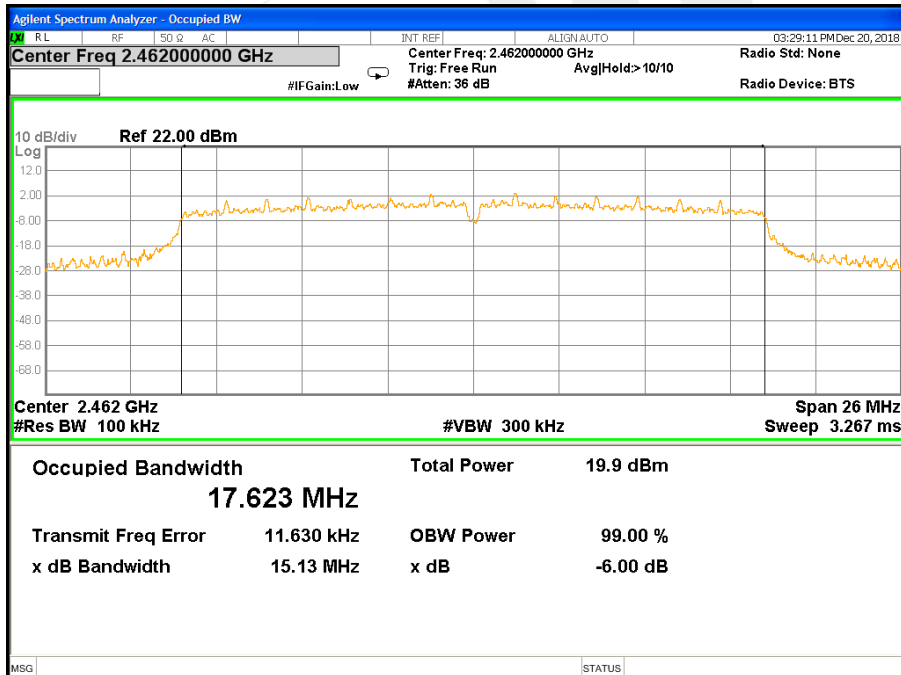




TX CH 06



TX CH 11

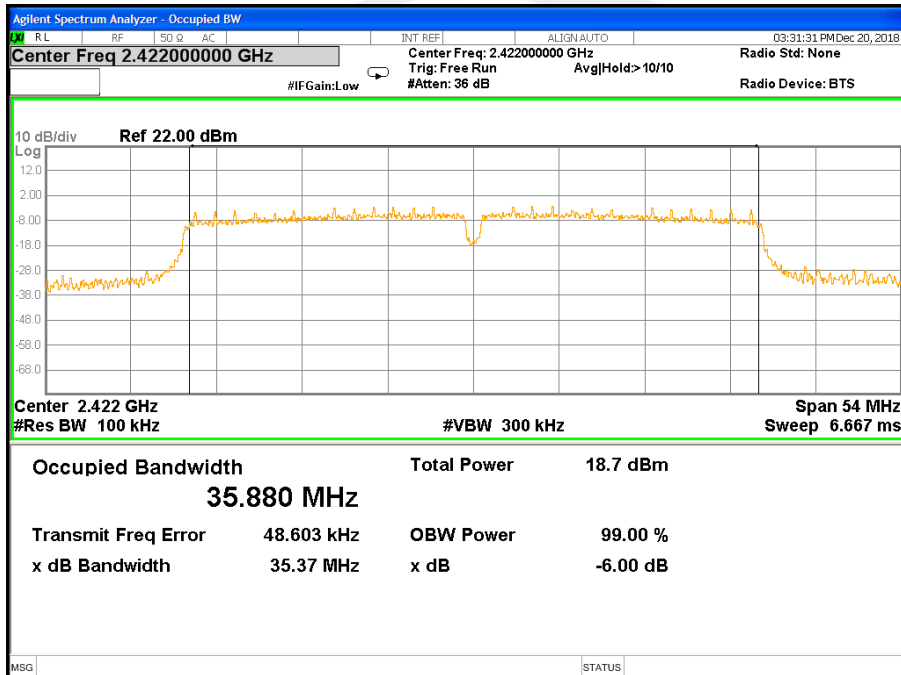




Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

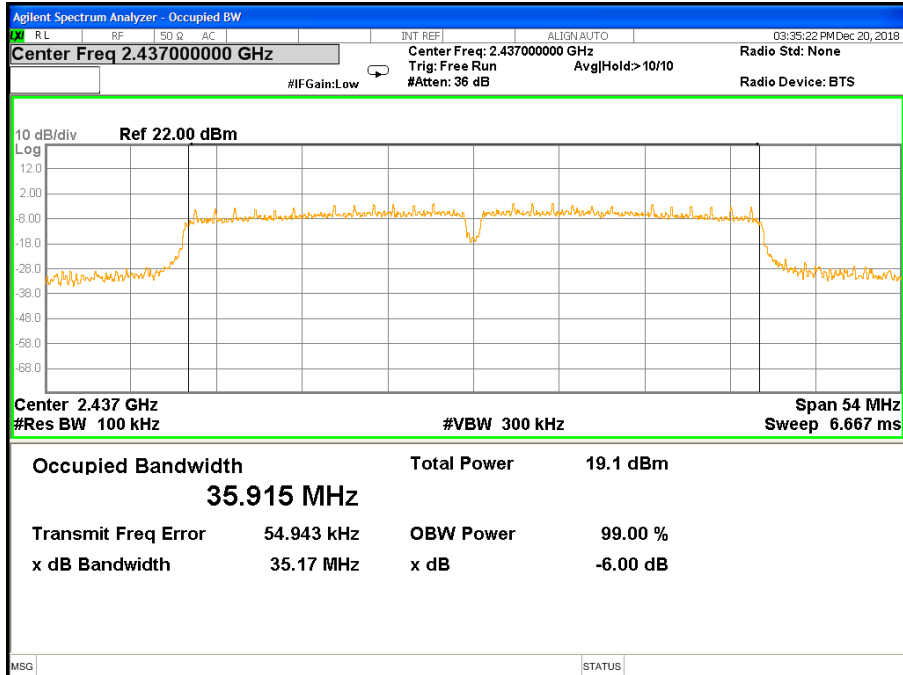
Frequency	6dB Bandwidth	Channel Separation	Result
	(MHz)	(KHz)	
2422 MHz	35.37	≥500KHz	PASS
2437 MHz	35.17	≥500KHz	PASS
2452 MHz	35.35	≥500KHz	PASS

TX CH 03

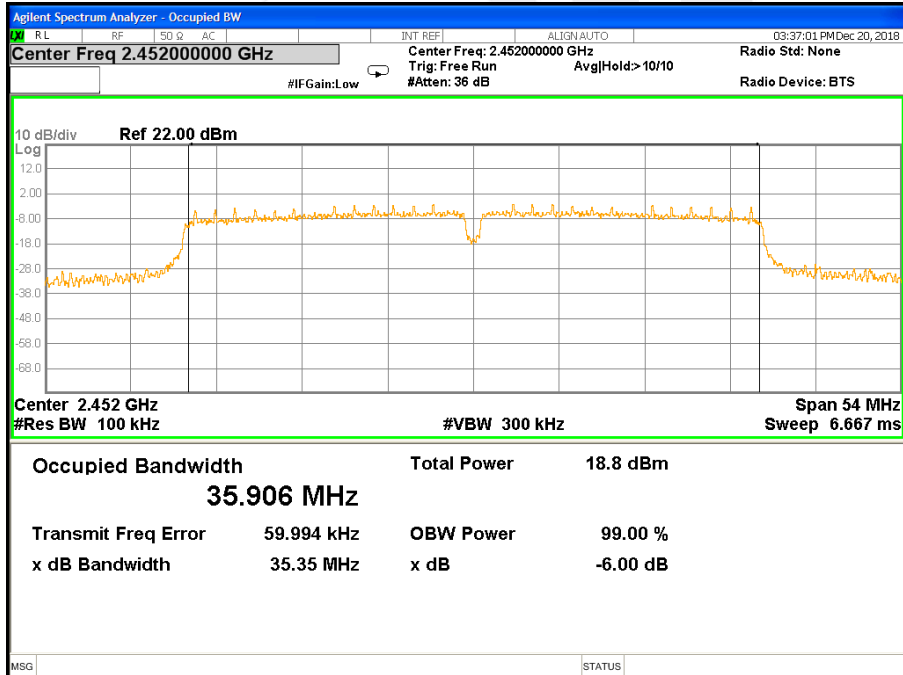




TX CH 06



TX CH 09





7. PEAK OUTPUT POWER TEST

7.1 LIMIT

FCC Part15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power Meter

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



7.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V		

TX 802.11b Mode				
Test Channel	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH01	2412	17.77	14.91	30
CH06	2437	17.46	14.68	30
CH11	2462	17.30	14.73	30

TX 802.11g Mode				
Test Channel	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH01	2412	19.70	12.94	30
CH06	2437	19.68	12.61	30
CH11	2462	19.48	12.72	30

TX 802.11n20 Mode				
Test Channel	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH01	2412	19.55	12.73	30
CH06	2437	19.64	12.59	30
CH11	2462	19.45	12.67	30

TX 802.11n40 Mode				
Test Channel	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH03	2422	20.07	12.94	30
CH06	2437	19.92	12.53	30
CH09	2452	19.81	12.37	30



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

8.2 EUT ANTENNA

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





APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※END OF THE REPORT※※※※

