FCC RADIO TEST REPORT
FCC ID: 2ACMQSP-SI-602

Product： Smartphone

Trade Name： N/A

Model Number： SP-SI-602

Serial Model： SP-SI-502, SP-SI-602-BK (black)，SP-SI-602-WH (white)，SP-SI-602-BE (Blue)，SP-SI-602-RD (red)，SP-SI-602-GR (Green)，SP-SI-602-YW (Yellow),SP-SI-702, SP-SI-802, SP-SI-504, SP-SI-604, SP-SI-704, SP-SI-804, SP-SI-505, SP-SI-605, SP-SI-705, SP-SI-805, SP-SI-508, SP-SI-608, SP-SI-708,SP-SI-808,SP-OR-T42, SP-OR-T43, SP-OR-T44, SP-OR-T45, SP-OR-T46,SP-OR-T47,SP-OR-T48, SP-OR-T49,SP-OR-T52,SP-OR-T53, SP-OR-T54, SP-OR-T55,SP-OR-T56,SP-OR-T57,SP-OR-T58, SP-OR-T59, SP-CY-434,SP-CY-435,SP-CY-436, SP-CY-437, SP-CY-438,SP-CY-439, SP-CY-534, SP-CY-535,SP-CY-536,SP-CY-537,SP-CY-538, SP-CY-539, SP-CY-554,SP-CY-555,SP-CY-556, SP-CY-557, SP-CY-558, SP-CY-559

Report No.： ISOT14083210R2

Prepared for

SISTEMAS APLICADOS USA, LLC

2005 E Griffin Pkwy Suite 150, Mission, Texas, United States 78572

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name ..... : SISTEMAS APLICADOS USA, LLC

Address ..... : 2005 E Griffin Pkwy Suite 150, Mission, Texas, United States 78572

Manufacture's Name..... : SISTEMAS APLICADOS USA, LLC

Address ..... : 2005 E Griffin Pkwy Suite 150, Mission, Texas, United States 78572

Product description

Product name ..... : Smartphone

Model and/or type reference : SP-SI-602

Serial Model： Refer to the first page.

Standards ..... : FCC Part15.247: 01 Oct. 2013

Test procedure..... ANSI C63.4-2003

This device described above has been tested by Shenzhen ISOTek, and 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 .....: 02 August. 2014 ~18 August. 2014

Date of Issue.....: 18 August. 2014

Test Result.....: **Pass**

Compiled by:

Lisa Huang/ Project Engineer

Approved by:

Richard Chen/ Manager

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(a)(1)	Hopping Channel Separation	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(c)	Radiated Spurious Emission	PASS	
15.247(a)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(iii)	Dwell Time	PASS	
15.247(a)(1)	Bandwidth	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

1.1 TEST FACILITY

All the tests were performed at:
Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd.,Songgang Street, Baoan District, Shenzhen, China
Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, April 29, 2014.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± U**，where expended 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	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td>Smartphone</td></tr>
<tr><td>Trade Name</td><td>N/A</td></tr>
<tr><td>Model Name</td><td>SP-SI-602</td></tr>
<tr><td>Serial Model</td><td>Refer to the first page.</td></tr>
<tr><td>Model Difference</td><td>All the names are the same circuit and RF module, except the model names.</td></tr>
<tr><td>Product Description</td><td>The EUT is a Smartphone
<table>
<tr><td>Operation Frequency:</td><td>2402~2480 MHz</td></tr>
<tr><td>Modulation Type:</td><td>BT(1Mbps): GFSK
BT EDR(2Mbps): π/4-DQPSK
BT EDR(3Mbps): 8-DPSK</td></tr>
<tr><td>Bit Rate of Transmitter</td><td>1Mbps/2Mbps/3Mbps</td></tr>
<tr><td>Number Of Channel</td><td>79 CH</td></tr>
<tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr>
<tr><td>Output Power(Conducted):</td><td>BT(1Mbps): 5.464dBm
BT EDR(2Mbps):5.604dBm
BT EDR(3Mbps):5.745dBm</td></tr>
</table>
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.</td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 2.</td></tr>
<tr><td>Adapter</td><td>Input: 100-240V
Output: 5.0V⎓, 2000mA</td></tr>
<tr><td>Battery</td><td>DC3.7V, 2600mAh</td></tr>
</table>

Note:

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

2.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	FPCB Antenna	N/A	1.0	BT Antenna

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78
Mode 4	normal link

For Conducted Emission	
Final Test Mode	Description
Mode 4	normal link

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) The EUT use new battery.

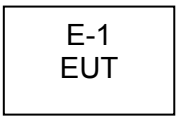
2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

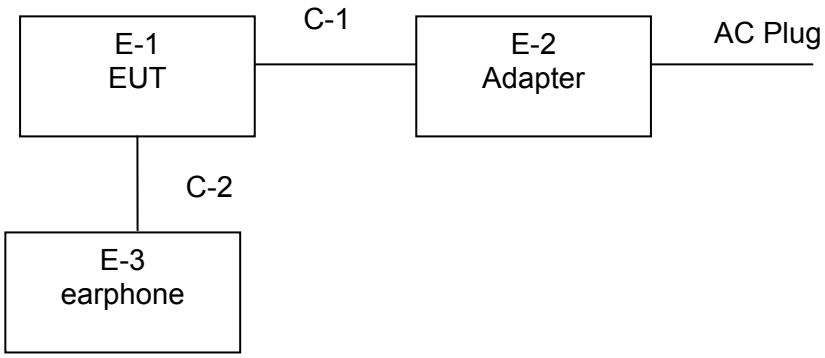
Test software Version	Test program: Broadcom		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1/2/3Mbps)	DEF	DEF	DEF

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test



2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Smartphone	N/A	SP-SI-602	N/A	EUT
E-2	Adapter	N/A	CW0502000	N/A	
E-3	earphone	N/A	2688	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	80cm	
C-2	NO	NO	120cm	

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”.

2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2014.07.06	2015.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2014.07.06	2015.07.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2014.07.06	2015.07.05	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.07.06	2015.07.05	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2014.07.06	2015.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.07.06	2015.07.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.07.06	2015.07.05	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2014.07.06	2015.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2014.07.06	2015.07.05	1 year
2	LISN	R&S	ENV216	101313	2014.07.06	2015.07.05	1 year
3	LISN	EMCO	3816/2	00042990	2014.07.06	2015.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.07.06	2015.07.05	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.07.06	2015.07.05	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.07.06	2015.07.05	1 year

1	Attenuation	MCE	24-10-34	BN9258	2014.07.06	2015.07.05	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

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

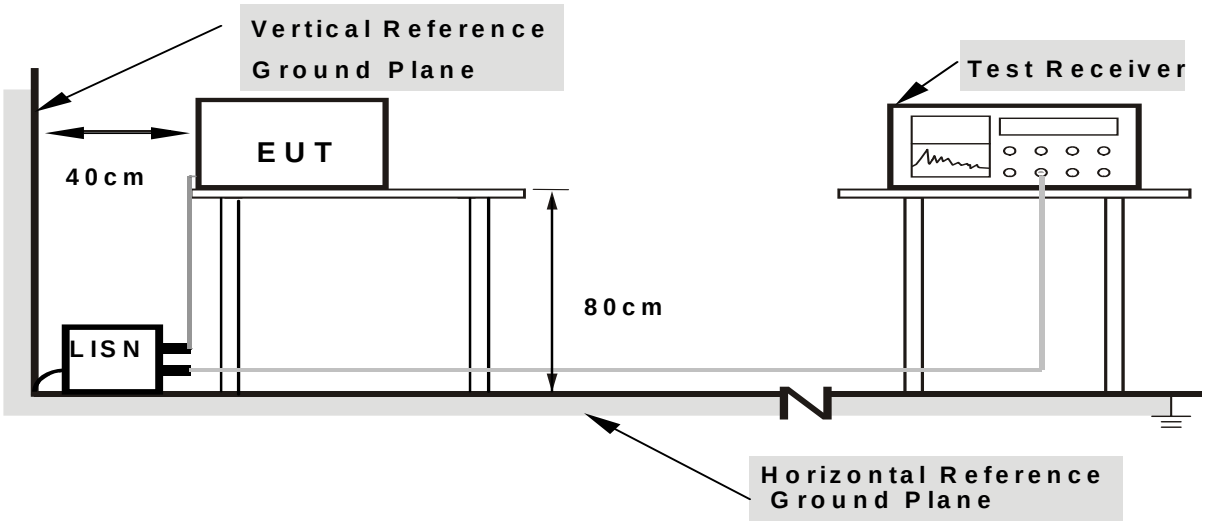
3.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal 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 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 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

3.1.5 EUT OPERATING CONDITIONS

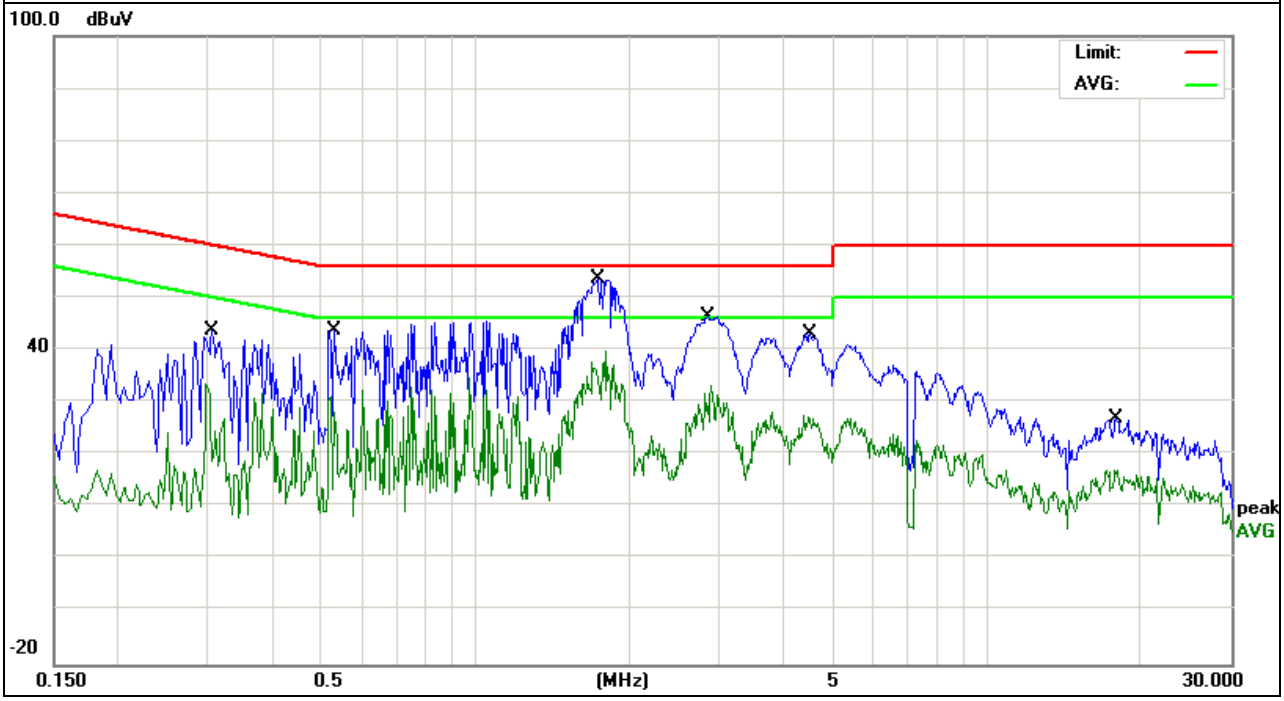
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 TEST RESULTS

EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5.0V from adapter AC 120V/60Hz	Test Mode：	Mode 4

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.3059	34.20	9.50	43.70	60.08	-16.38	AVG
0.3059	24.05	9.50	33.55	50.08	-16.53	QP
0.5299	34.23	9.51	43.74	56.00	-12.26	QP
0.5299	21.67	9.51	31.18	46.00	-14.82	AVG
1.7419	43.02	9.54	52.56	56.00	-3.44	QP
1.7419	30.18	9.54	39.72	46.00	-6.28	AVG
2.8420	36.84	9.57	46.41	56.00	-9.59	QP
2.8420	23.63	9.57	33.20	46.00	-12.80	AVG
4.5138	33.53	9.60	43.13	56.00	-12.87	QP
4.5138	17.93	9.60	27.53	46.00	-18.47	AVG
17.8498	16.84	10.10	26.94	60.00	-33.06	QP
17.8498	7.05	10.10	17.15	50.00	-32.85	AVG

Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

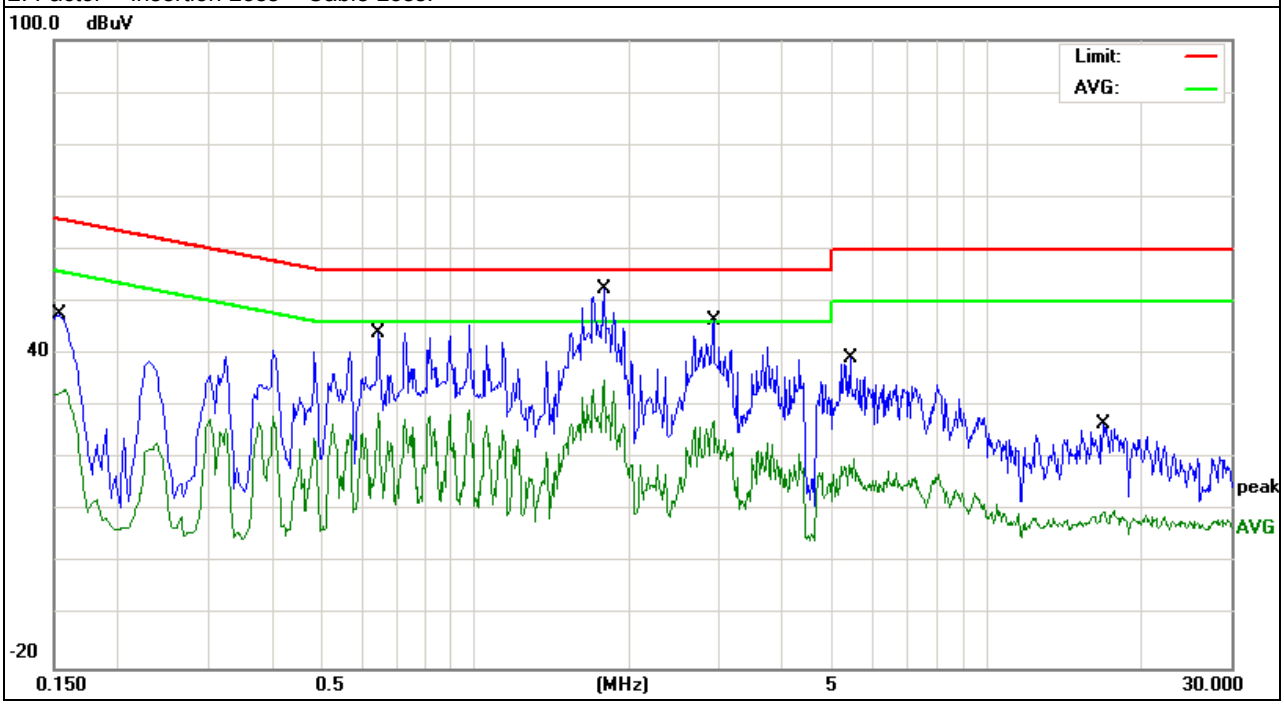


EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5.0V from adapter AC 120V/60Hz	Test Mode：	Mode 4

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1539	38.08	9.62	47.70	65.78	-18.08	QP
0.1539	23.77	9.62	33.39	55.78	-22.39	AVG
0.6460	34.62	9.52	44.14	56.00	-11.86	QP
0.6460	19.31	9.52	28.83	46.00	-17.17	AVG
1.7900	42.87	9.55	52.42	56.00	-3.58	QP
1.7900	25.54	9.55	35.09	46.00	-10.91	AVG
2.9180	36.81	9.57	46.38	56.00	-9.62	QP
2.9180	17.75	9.57	27.32	46.00	-18.68	AVG
5.3978	29.55	9.62	39.17	60.00	-20.83	QP
5.3978	10.29	9.62	19.91	50.00	-30.09	AVG
16.9057	16.72	10.02	26.74	60.00	-33.26	QP
16.9057	-0.01	10.02	10.01	50.00	-39.99	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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 (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	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).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~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 up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both 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 pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

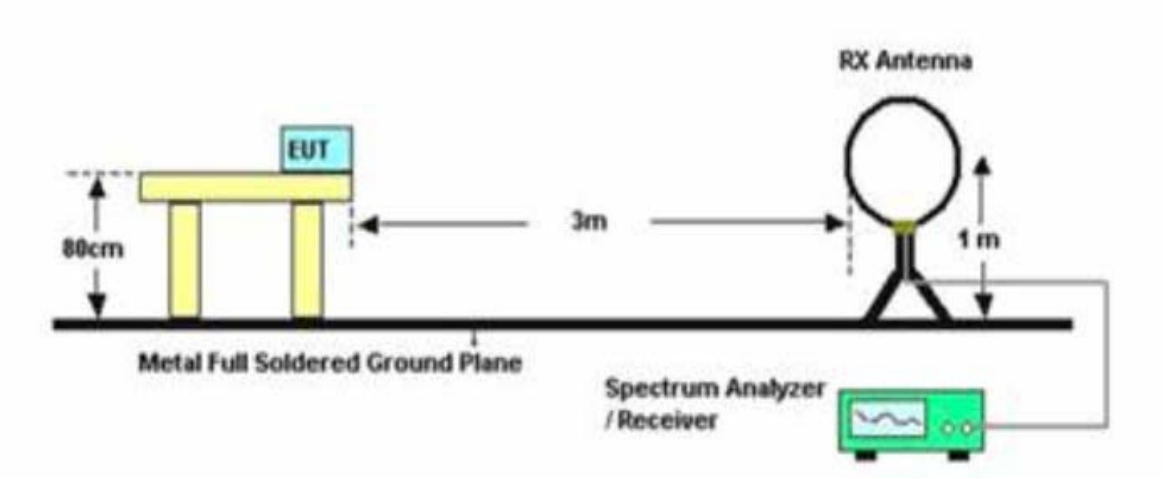
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

3.2.3 DEVIATION FROM TEST STANDARD

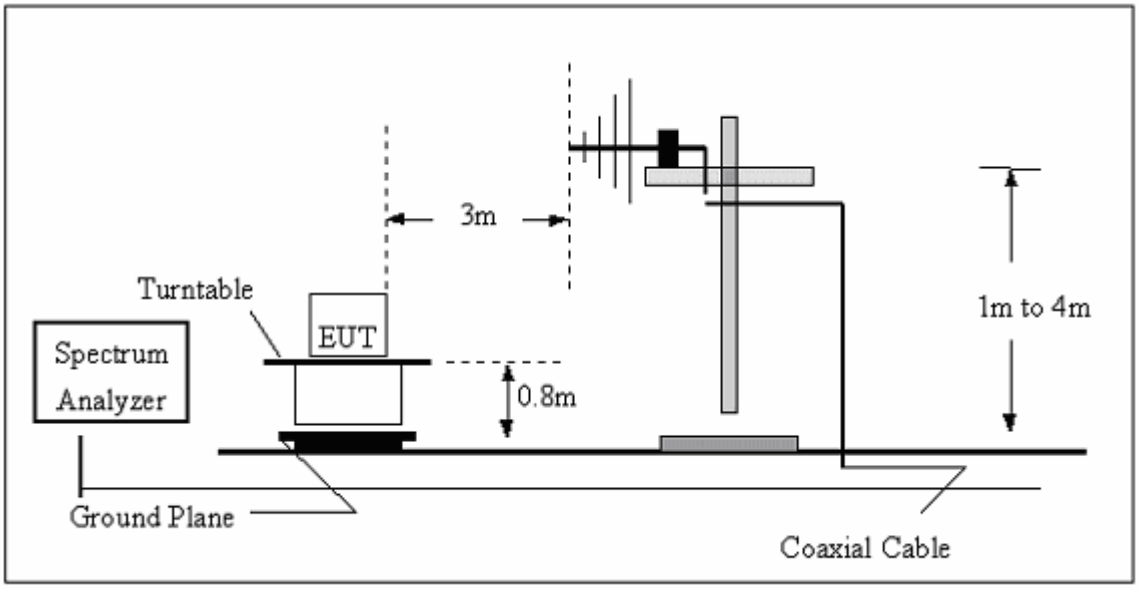
No deviation

3.2.4 TEST SETUP

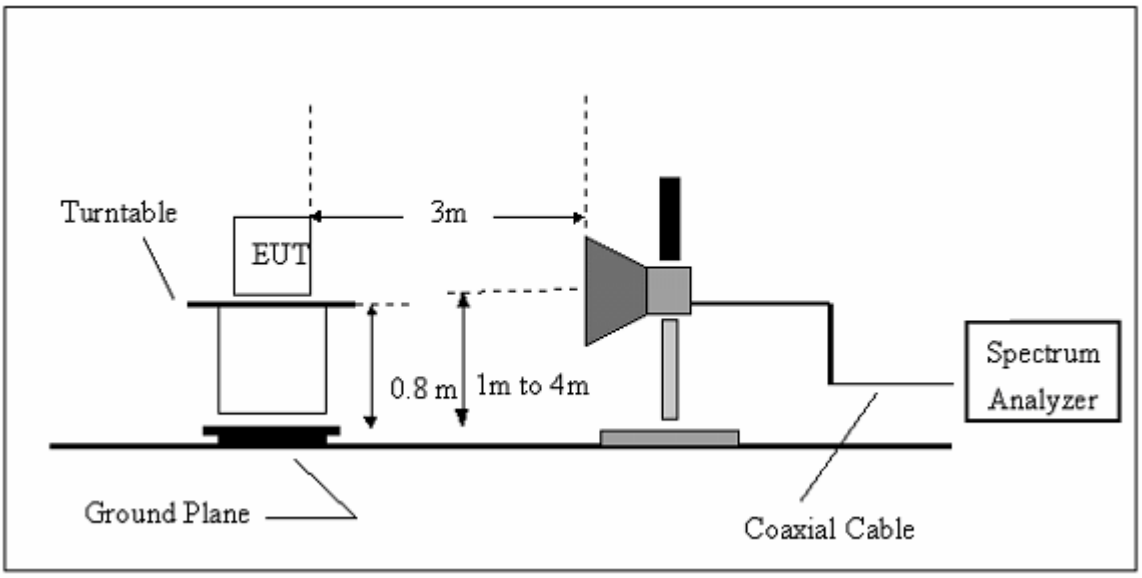
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BELOW 30 MHZ)

EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX	Polarization :	---

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

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 =20 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010hPa	Test Mode：	TX
Test Voltage ：	DC 3.7V		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
Vertical	37.9450	10.98	14.83	25.81	40.00	-14.19	QP
Vertical	57.3922	17.10	8.58	25.68	40.00	-14.32	QP
Vertical	130.3788	14.91	11.87	26.78	43.50	-16.72	QP
Vertical	176.8877	15.09	10.60	25.69	43.50	-17.81	QP
Vertical	229.2931	13.26	12.76	26.02	46.00	-19.98	QP
Vertical	824.5968	6.81	27.32	34.13	46.00	-11.87	QP
Horizontal	30.3172	5.57	19.25	24.82	40.00	-15.18	QP
Horizontal	131.2965	5.74	11.83	17.57	43.50	-25.93	QP
Horizontal	176.8877	13.43	10.60	24.03	43.50	-19.47	QP
Horizontal	228.4903	16.22	12.71	28.93	46.00	-17.07	QP
Horizontal	457.5072	10.61	19.45	30.06	46.00	-15.94	QP
Horizontal	830.4002	6.54	27.30	33.84	46.00	-12.16	QP

3.2.8 **TEST RESULTS (ABOVE 1000 MHZ)**

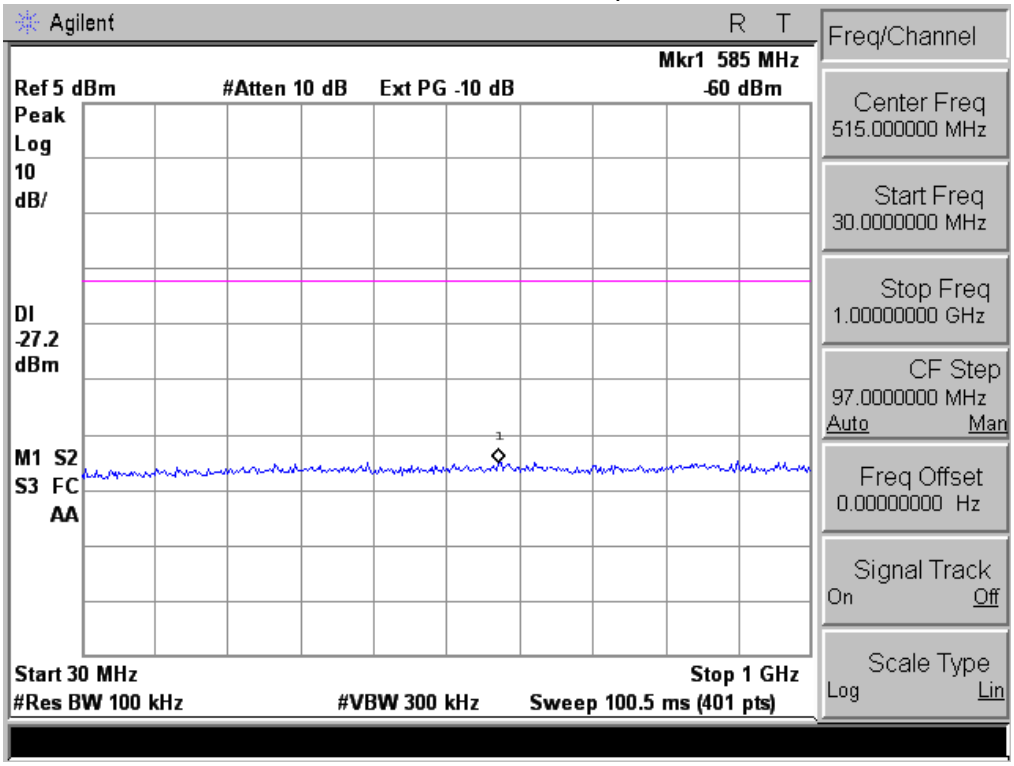
EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010hPa	Test Mode：	TX
Test Mode ：	DC 3.7V		

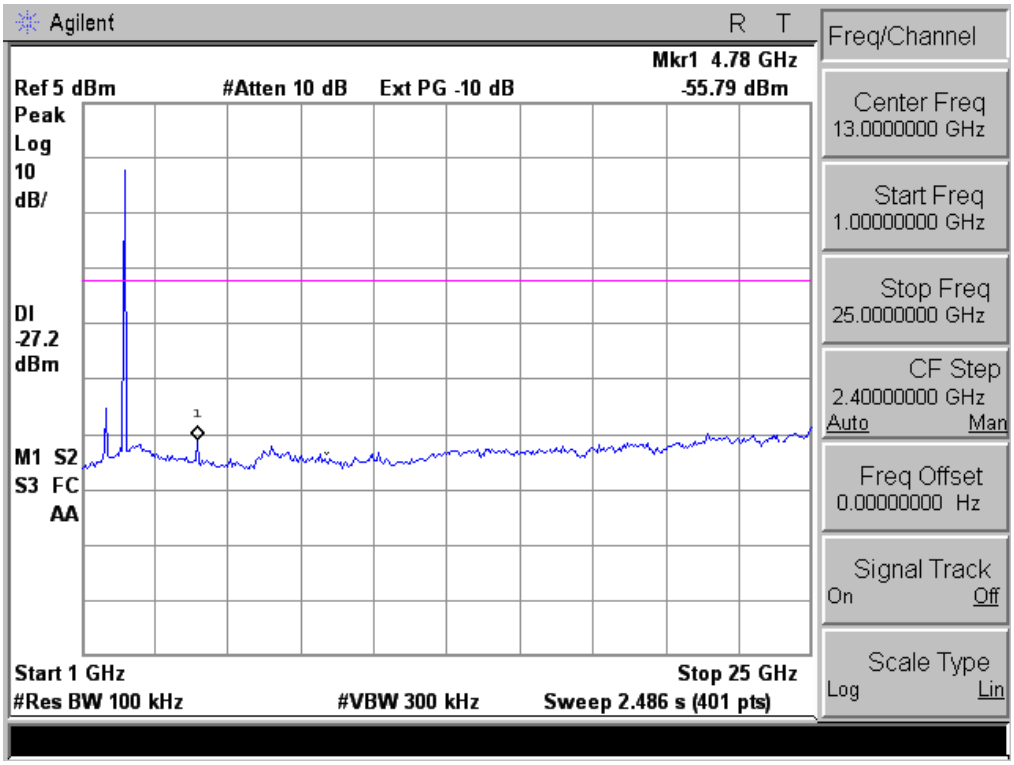
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	Comment
Low Channel (2402 MHz)-Above 1G							
4804	62.35	-3.64	58.71	74	-15.29	Pk	Vertical
4804	44.26	-3.64	40.62	54	-13.38	AV	Vertical
7206	56.34	-0.95	55.39	74	-18.61	Pk	Vertical
7206	39.25	-0.95	38.3	54	-15.7	AV	Vertical
4804	60.24	-3.64	56.6	74	-17.4	Pk	Horizontal
4804	43.28	-3.64	39.64	54	-14.36	AV	Horizontal
7206	55.36	-0.95	54.41	74	-19.59	Pk	Horizontal
7206	38.11	-0.95	37.16	54	-16.84	AV	Horizontal
Mid Channel (2441 MHz)-Above 1G							
4882	61.29	-3.68	57.61	74	-16.39	Pk	Vertical
4882	43.13	-3.68	39.45	54	-14.55	AV	Vertical
7323	56.56	-0.82	55.74	74	-18.26	Pk	Vertical
7323	38.34	-0.82	37.52	54	-16.48	AV	Vertical
4882	60.33	-3.68	56.65	74	-17.35	Pk	Horizontal
4882	43.27	-3.68	39.59	54	-14.41	AV	Horizontal
7323	56.35	-0.82	55.53	74	-18.47	Pk	Horizontal
7323	38.31	-0.82	37.49	54	-16.51	AV	Horizontal
High Channel (2480 MHz)- Above 1G							
4960	60.2	-3.59	56.61	74	-17.39	Pk	Vertical
4960	43.17	-3.59	39.58	54	-14.42	AV	Vertical
7440	55.35	-0.69	54.66	74	-19.34	Pk	Vertical
7440	38.24	-0.69	37.55	54	-16.45	AV	Vertical
4960	60.14	-3.59	56.55	74	-17.45	Pk	Horizontal
4960	43.51	-3.59	39.92	54	-14.08	AV	Horizontal
7440	55.36	-0.69	54.67	74	-19.33	Pk	Horizontal
7440	37.37	-0.69	36.68	54	-17.32	AV	Horizontal

Note: Mode 3Mbps is the worst mode.

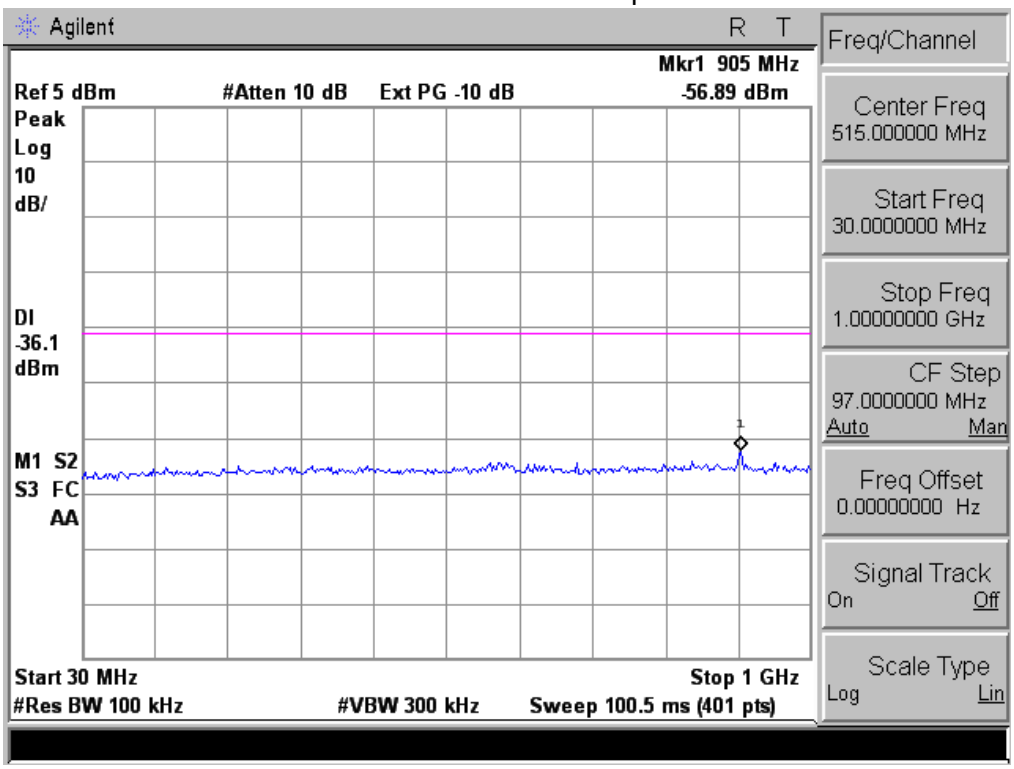
Conducted Spurious Emissions at Antenna Port:

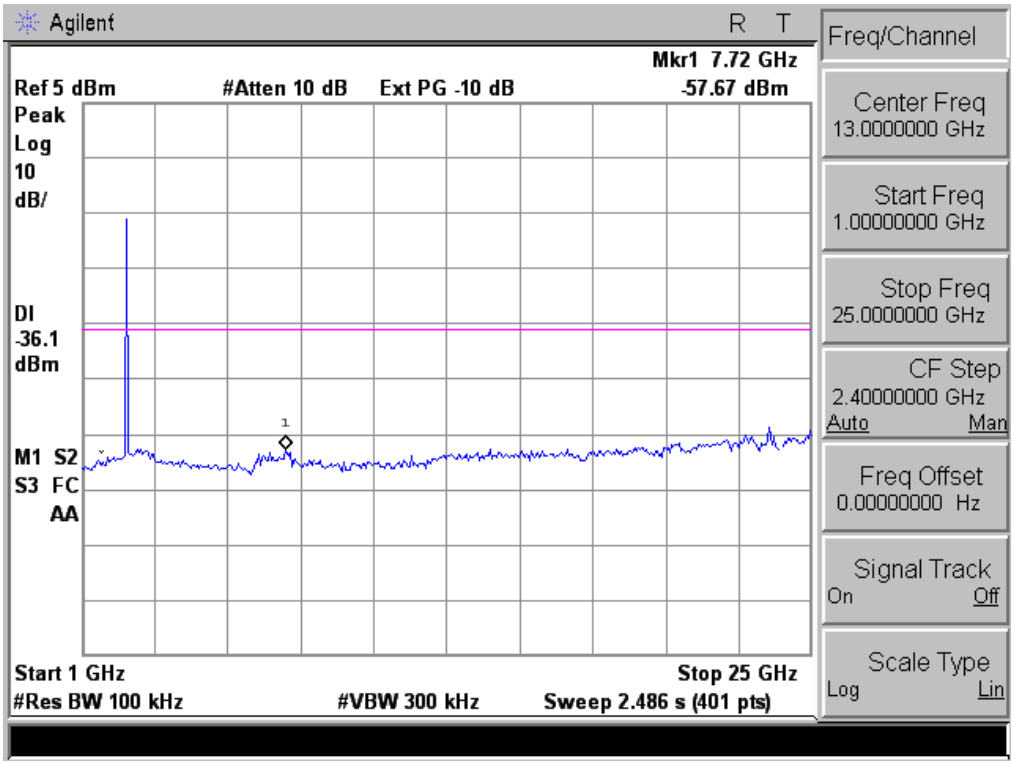
Low Channel -1Mbps



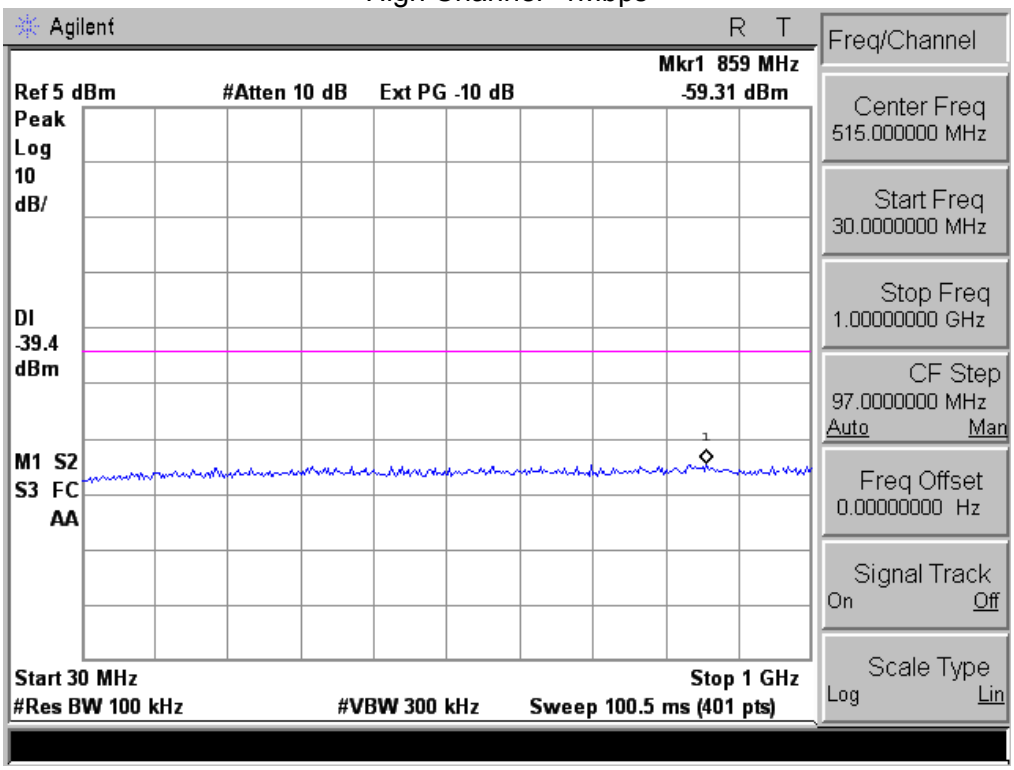


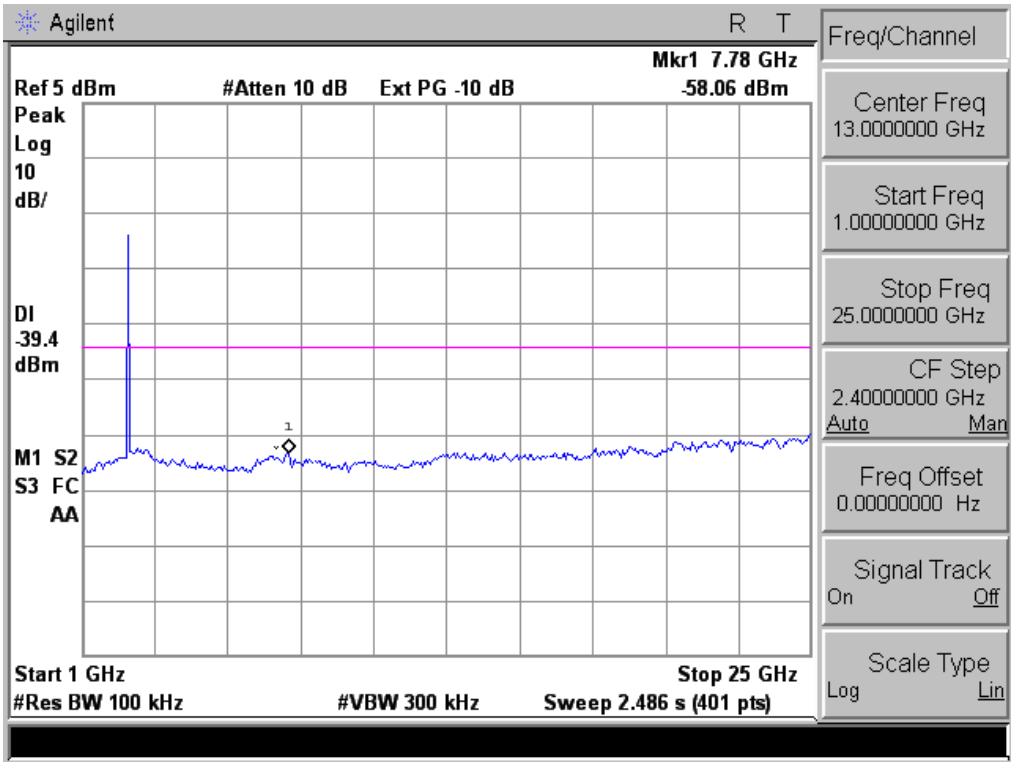
Middle Channel -1Mbps



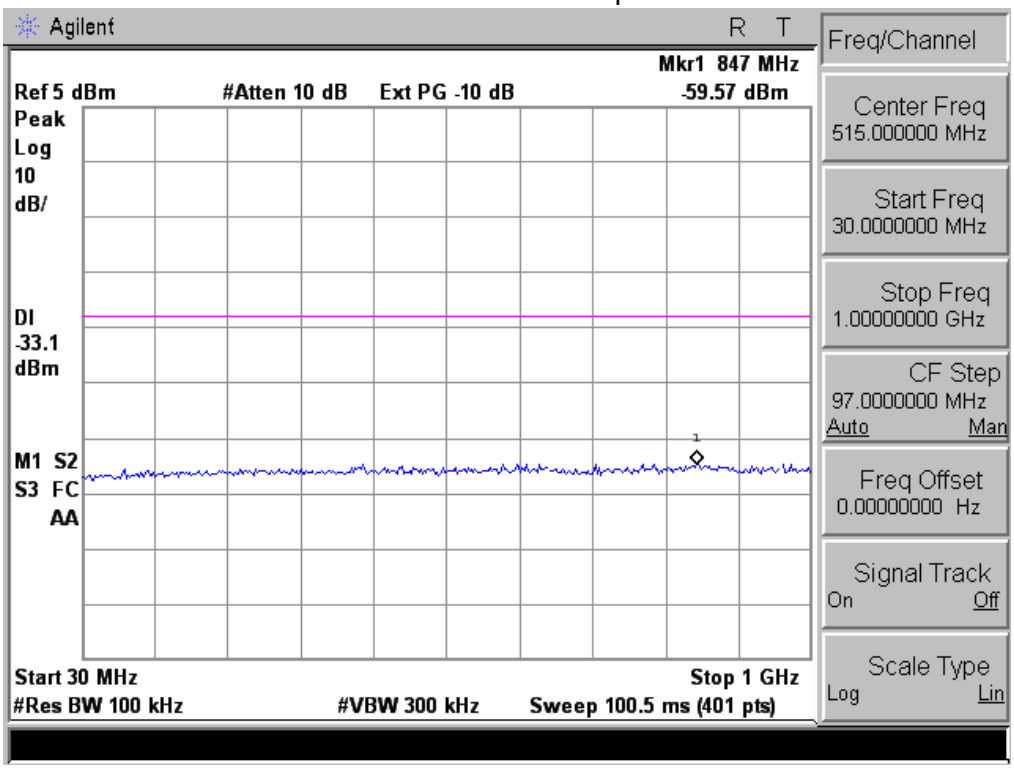


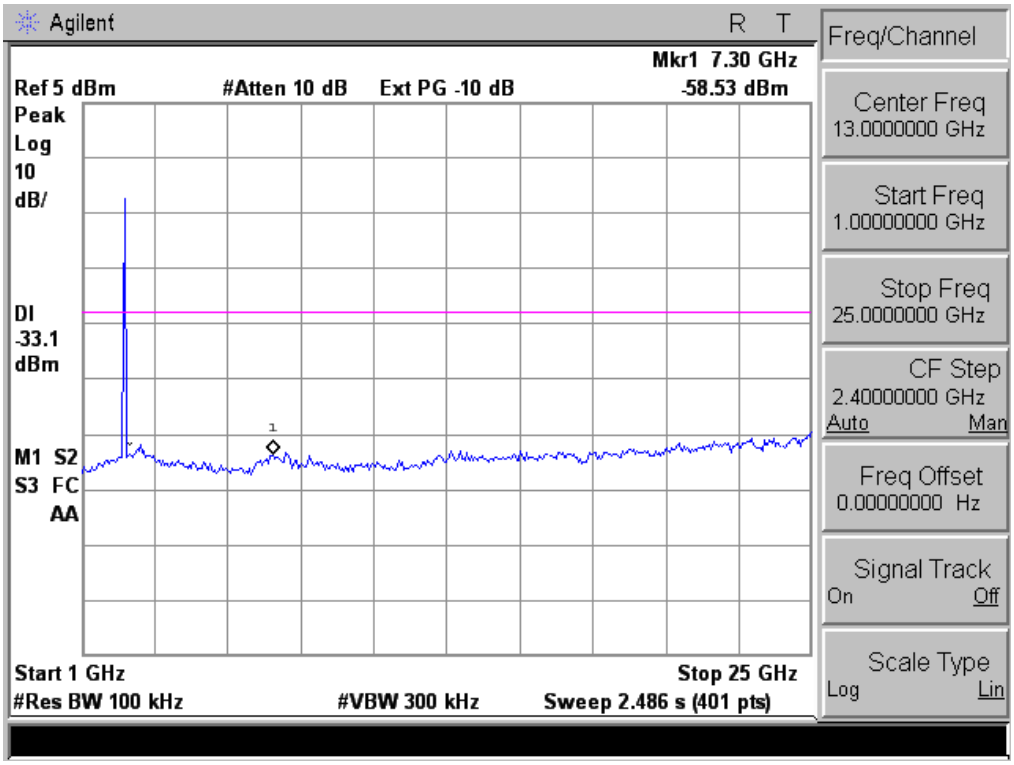
High Channel -1Mbps



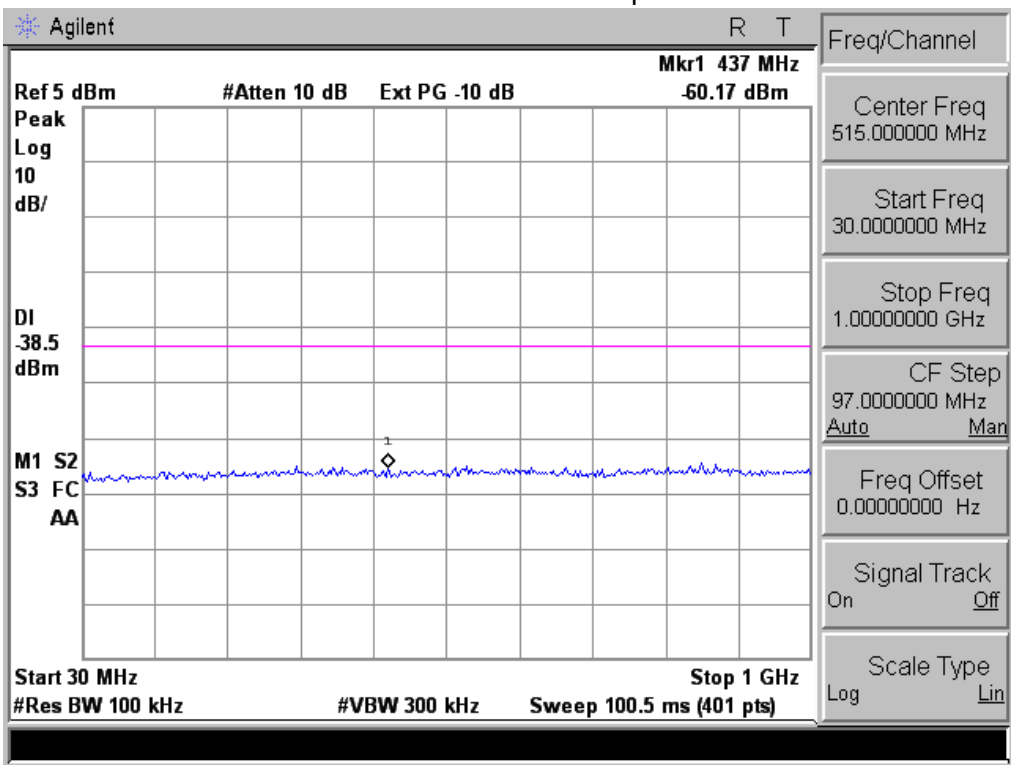


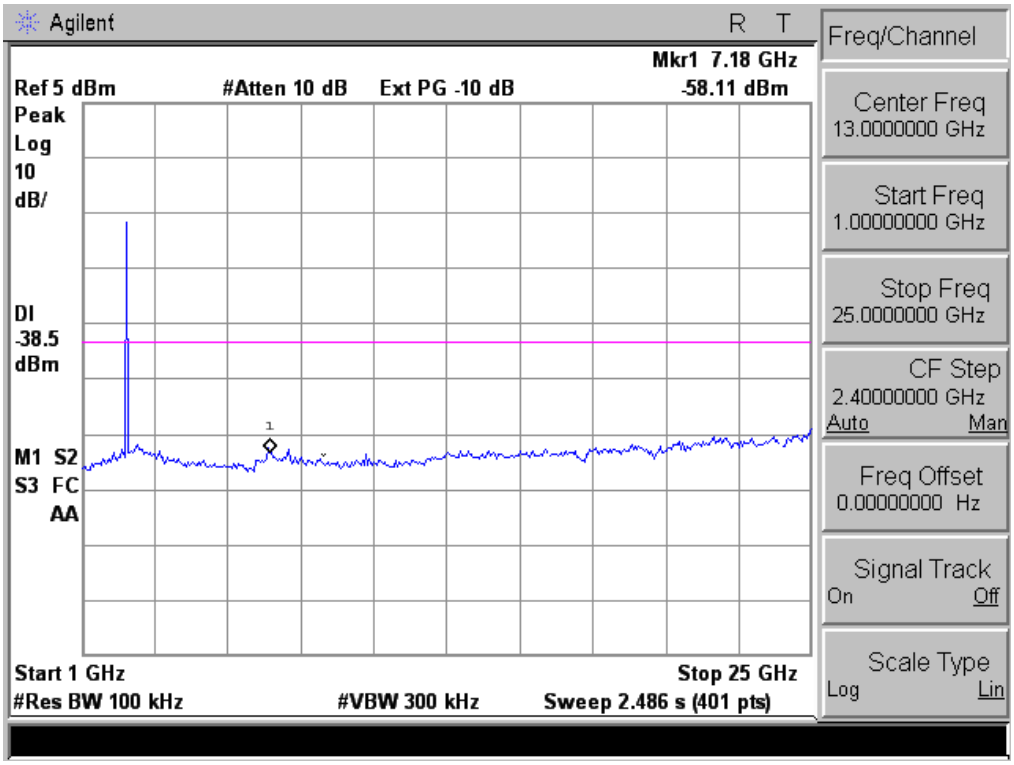
Low Channel -2Mbps



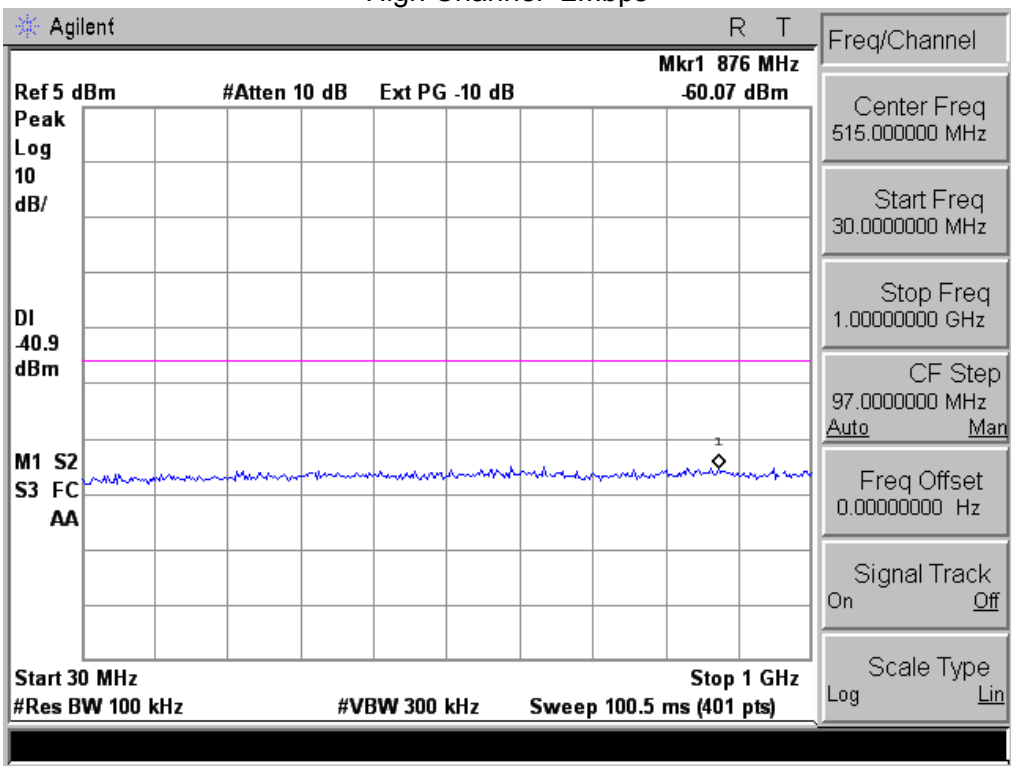


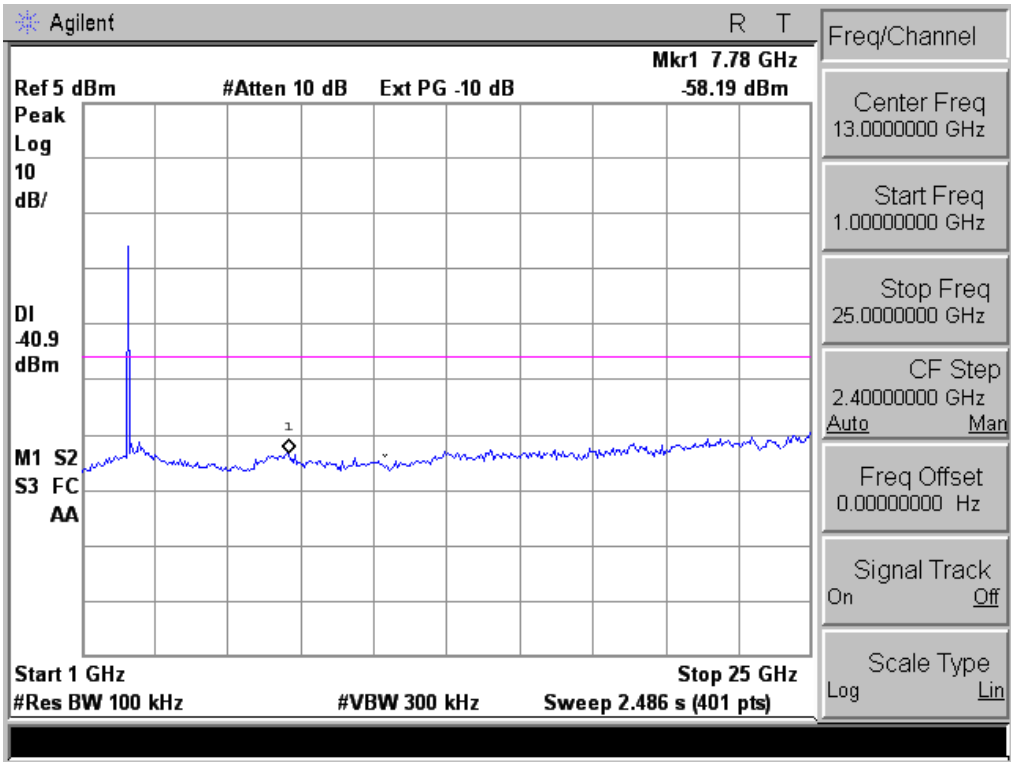
Middle Channel -2Mbps



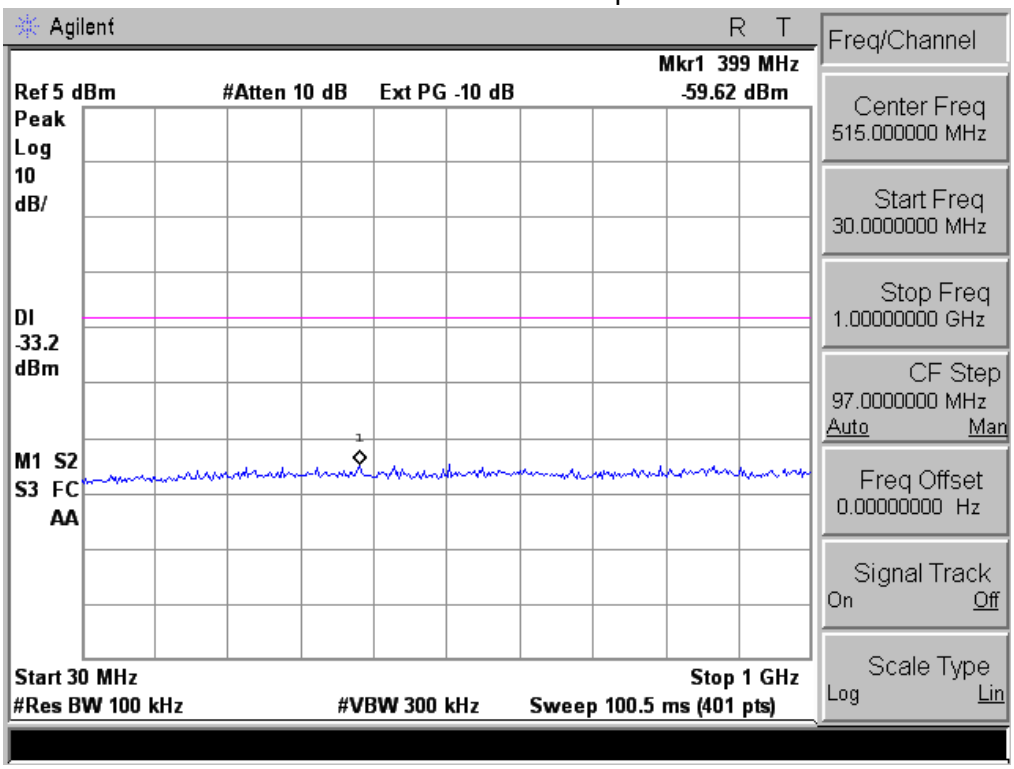


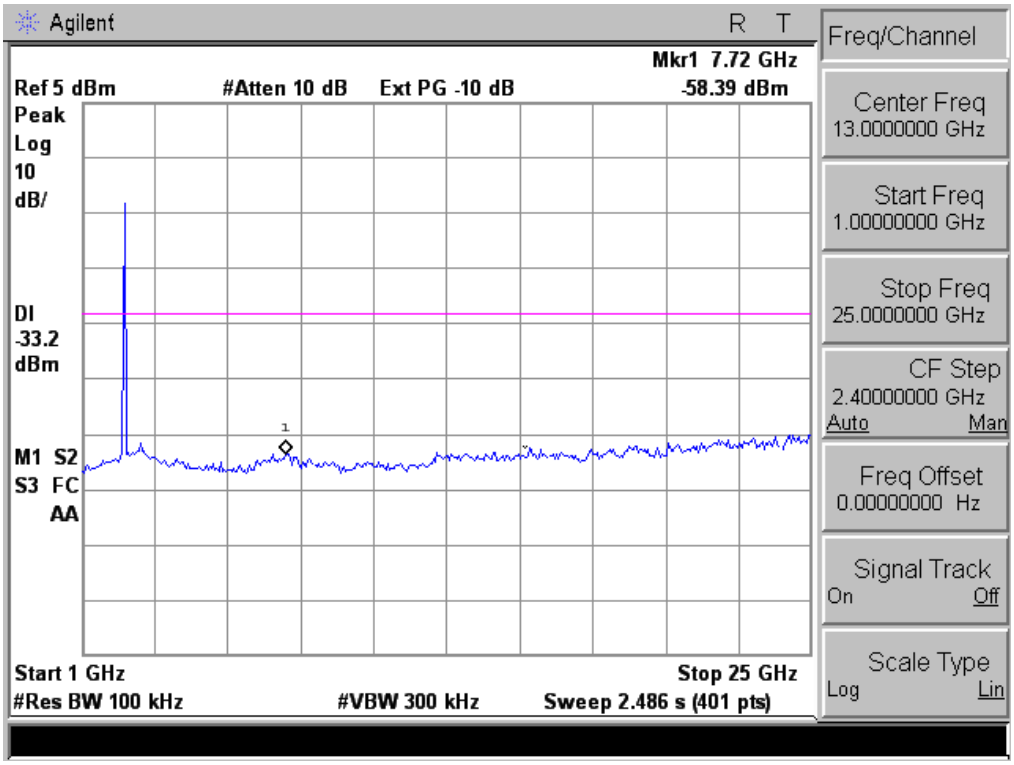
High Channel -2Mbps



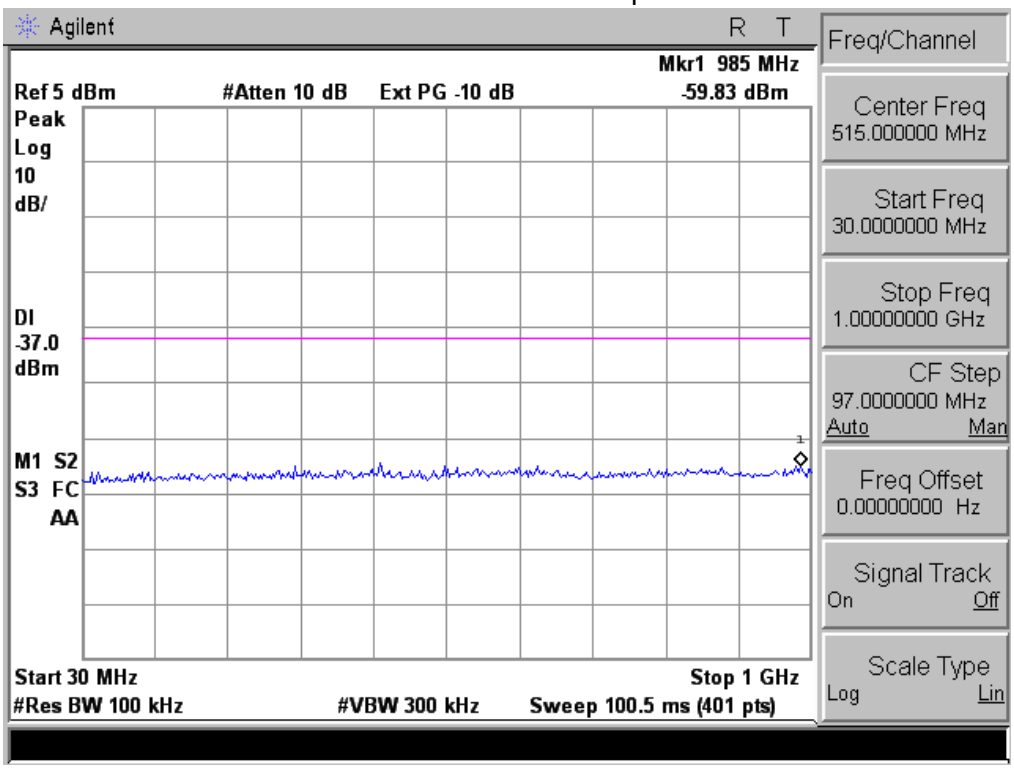


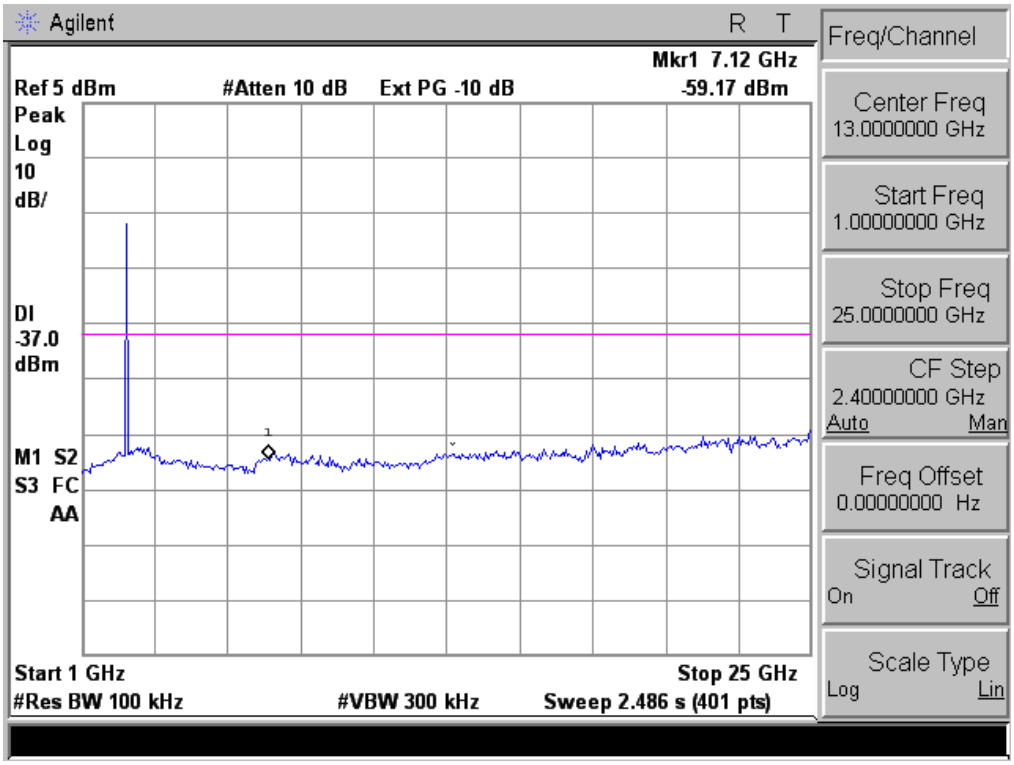
Low Channel -3Mbps



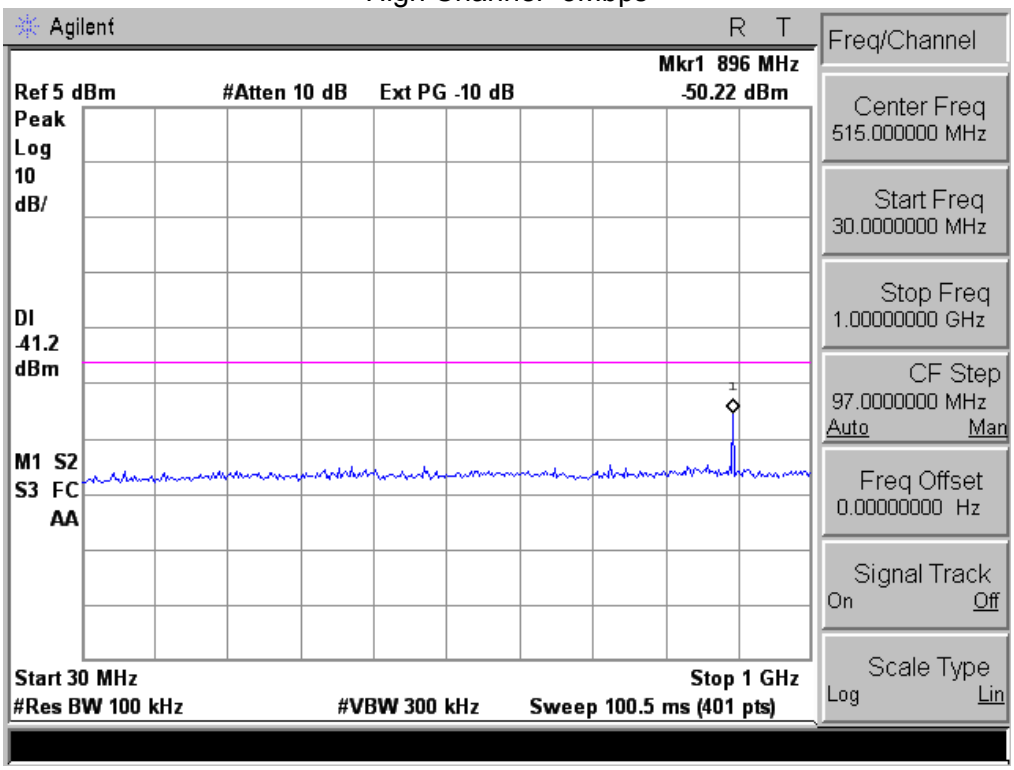


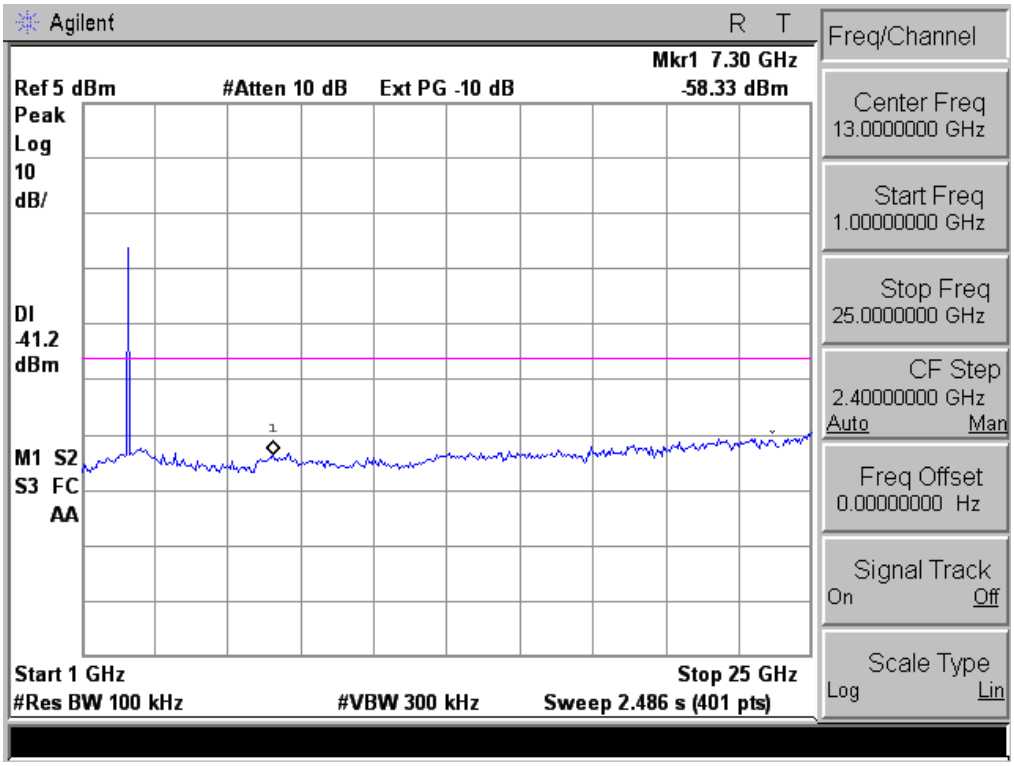
Middle Channel -3Mbps





High Channel -3Mbps





4. NUMBER OF HOPPING CHANNEL

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	= the frequency band of operation
RB	RBW=100kHz
VB	VBW ≥ RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

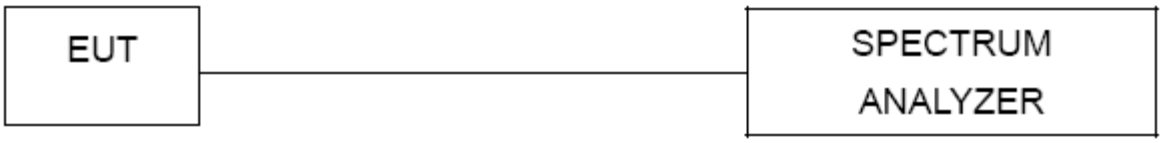
4.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting : RBW= 100kHz, VBW=100kHz, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



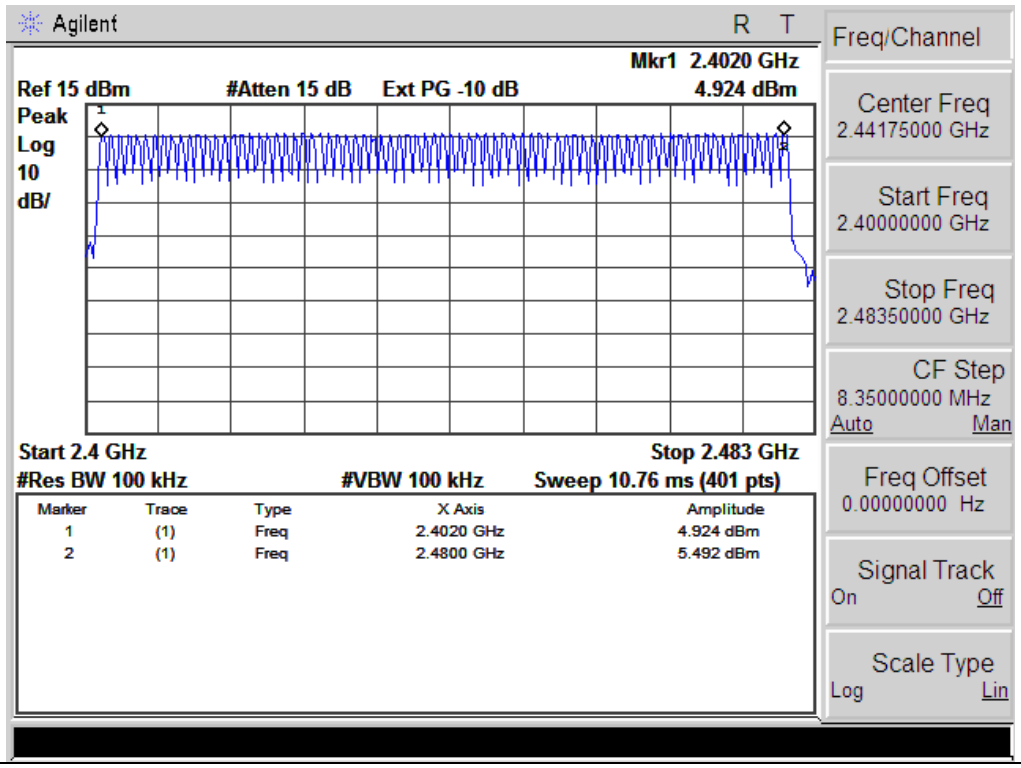
4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	Hopping Mode		

Number of Hopping Channel	79



5. AVERAGE TIME OF OCCUPANCY

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

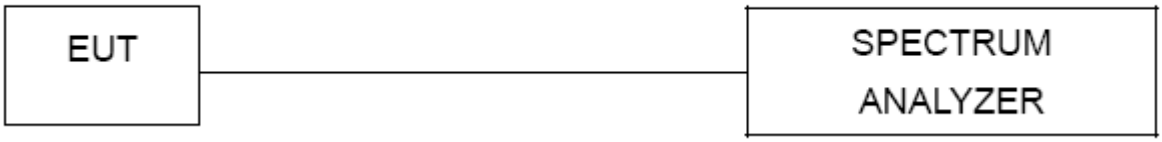
5.1.1 TEST PROCEDURE

a. The transmitter output (antenna port) was connected to the spectrum analyzer
b. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.
c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
d. Sweep Time is more than once pulse time.
e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
f. Measure the maximum time duration of one single pulse.
g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
h. Measure the maximum time duration of one single pulse.
i. A Period Time = (channel number)*0.4
DH1 Time Slot: Reading * (1600/2)*31.6/(channel number)
DH3 Time Slot: Reading * (1600/4)*31.6/(channel number)
DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

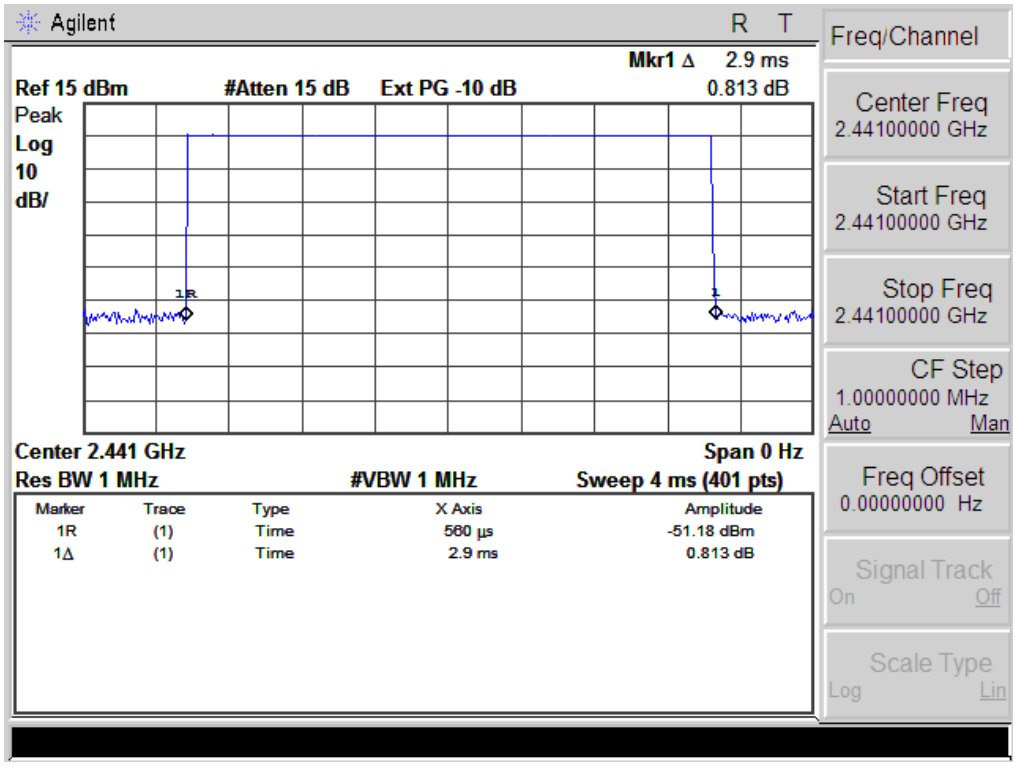
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

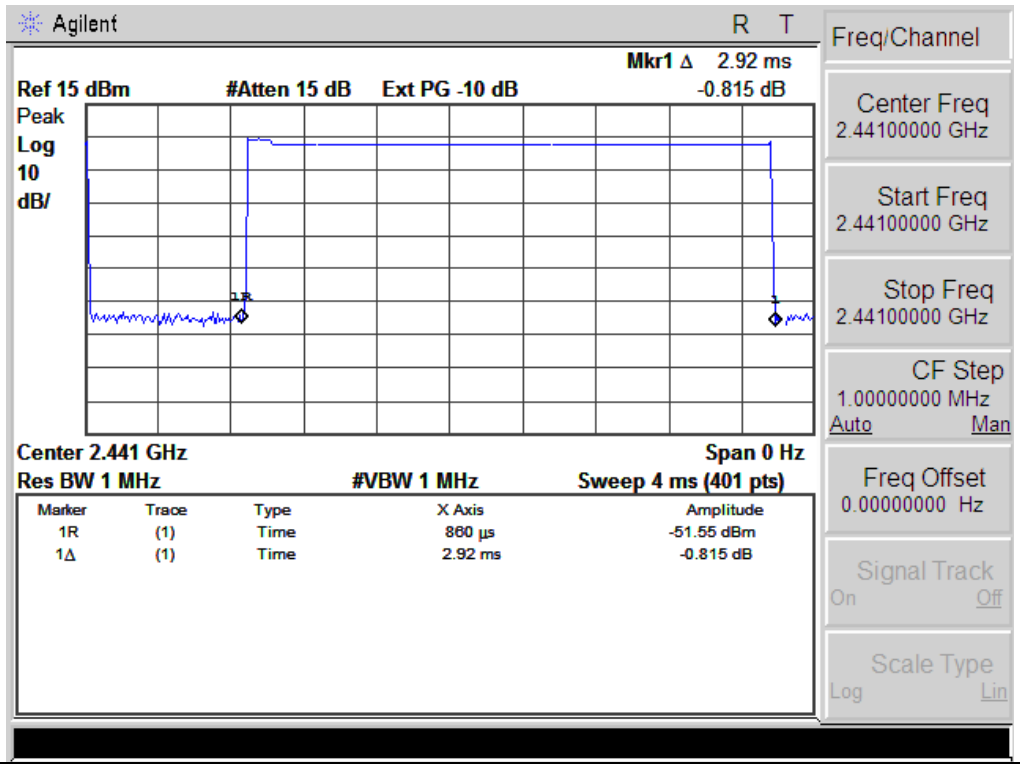
EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH39-DH5 ,2DH5,3DH5		

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
DH5	2441 MHz	2.90	0.31	0.4
2DH5	2441 MHz	2.92	0.31	0.4
3DH5	2441 MHz	2.93	0.31	0.4

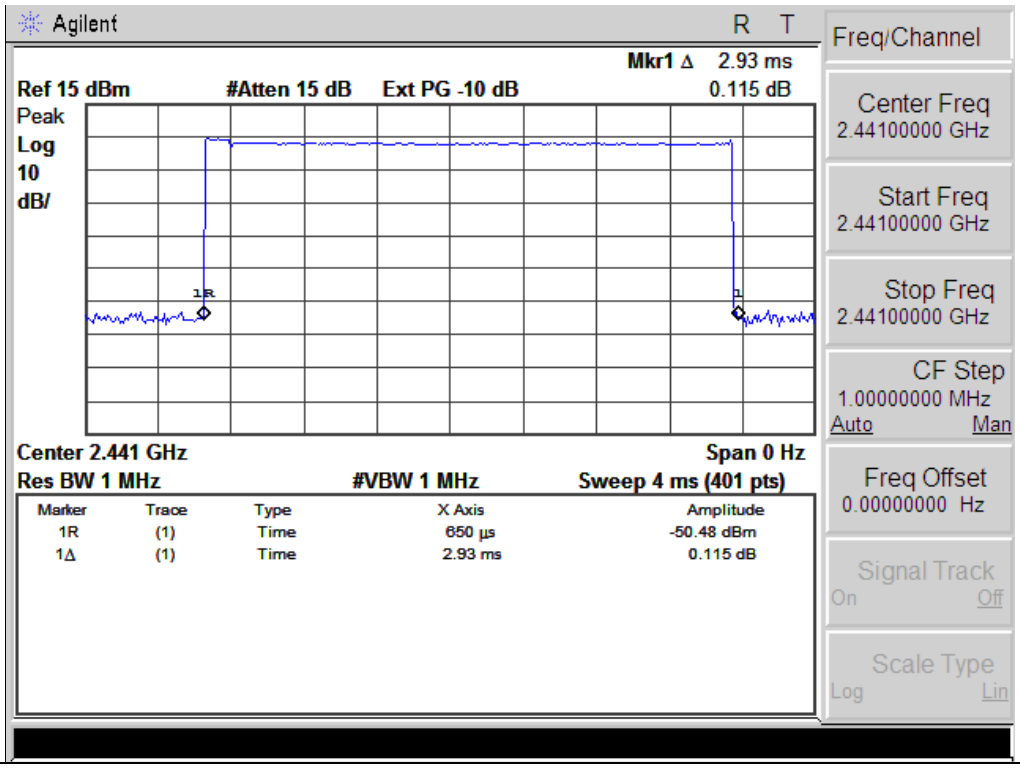
CH39-DH5



CH39-2DH5



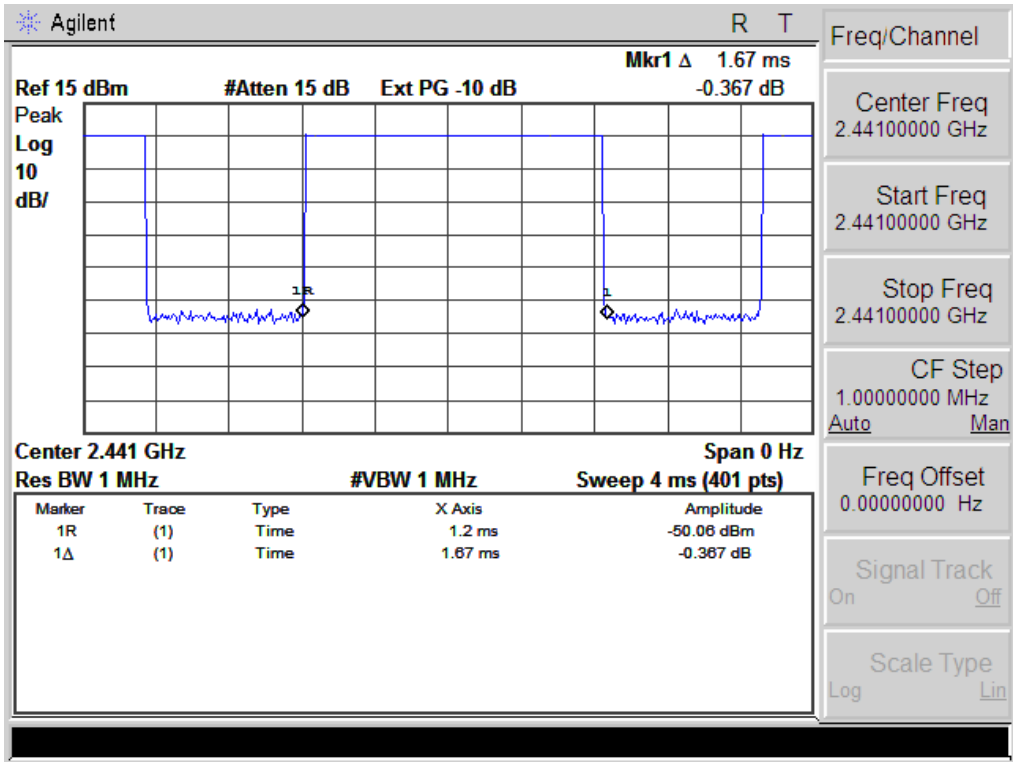
CH39-3DH5



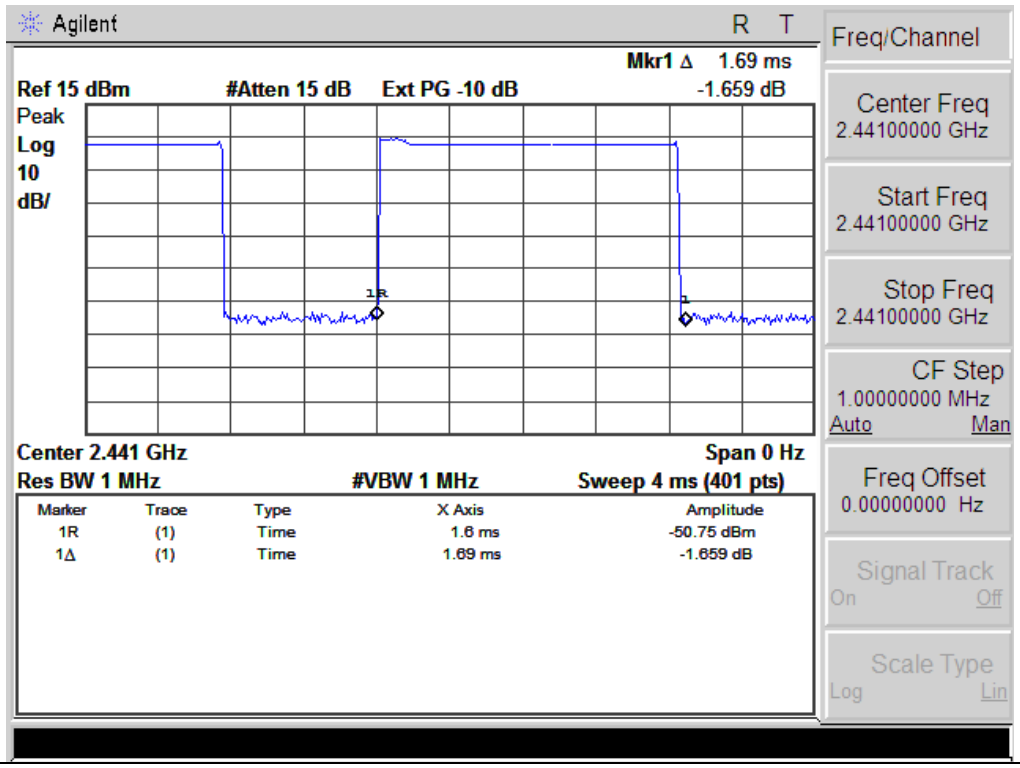
EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH39-DH3,2DH3,3DH3		

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
DH3	2441 MHz	1.67	0.27	0.4
2DH3	2441 MHz	1.69	0.27	0.4
3DH3	2441 MHz	1.70	0.27	0.4

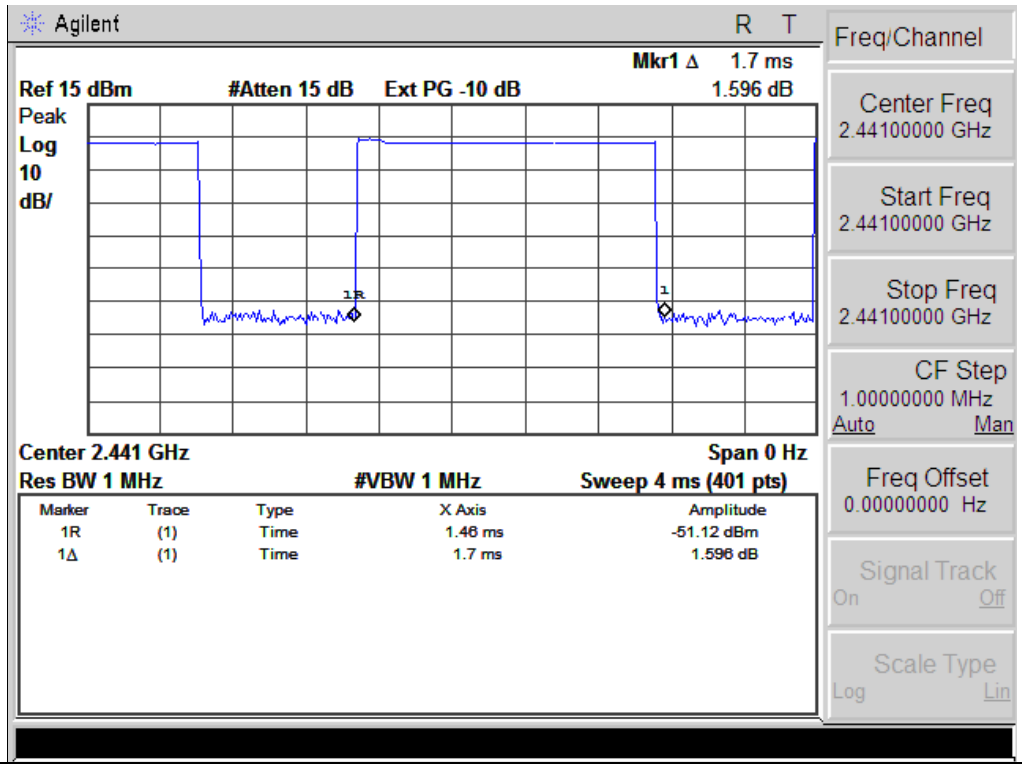
CH39-DH3



CH39-2DH3



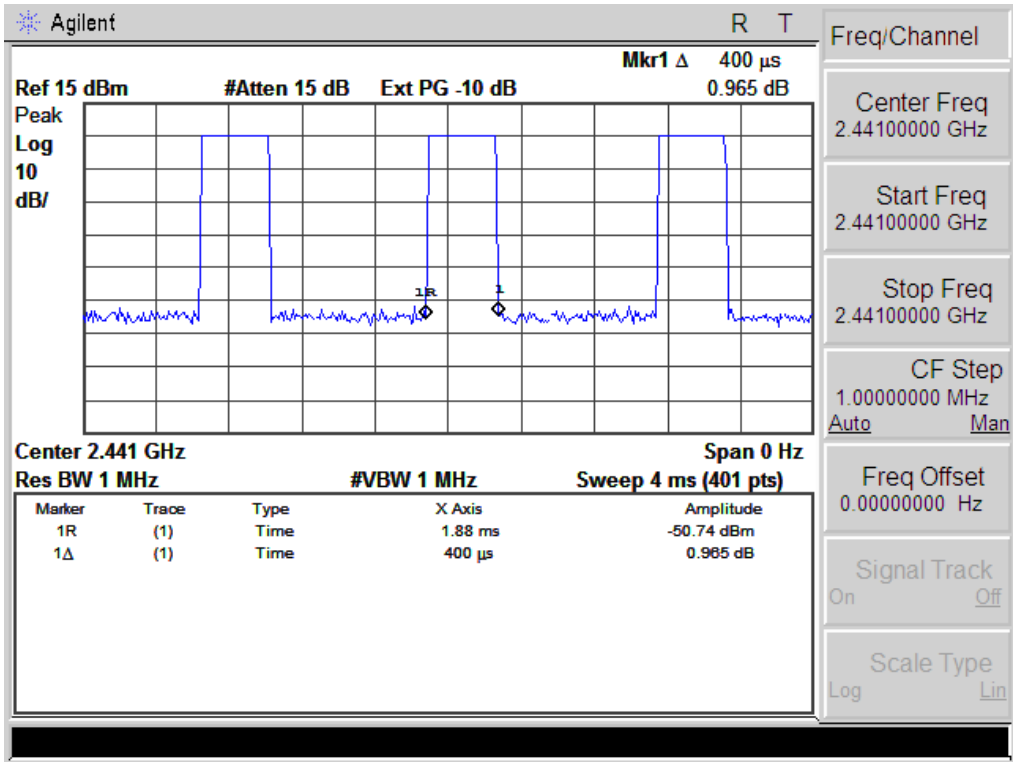
CH39-3DH3



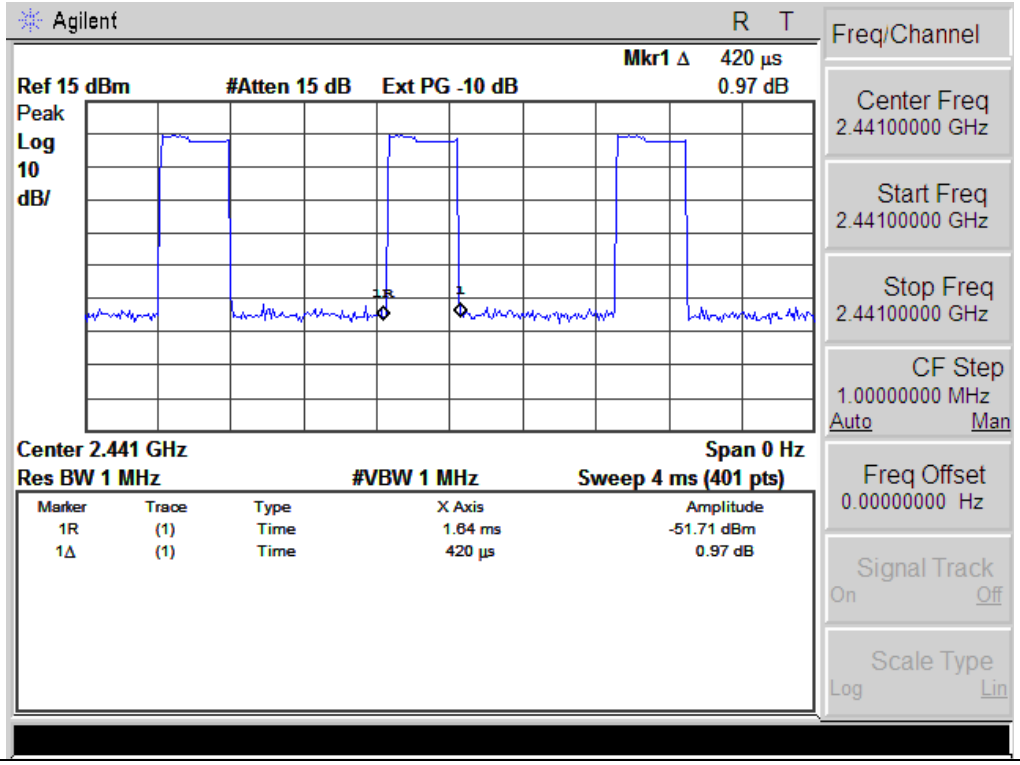
EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH39-DH1,2DH1,3DH1		

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
DH1	2441 MHz	0.40	0.13	0.4
2DH1	2441 MHz	0.42	0.13	0.4
3DH1	2441 MHz	0.43	0.14	0.4

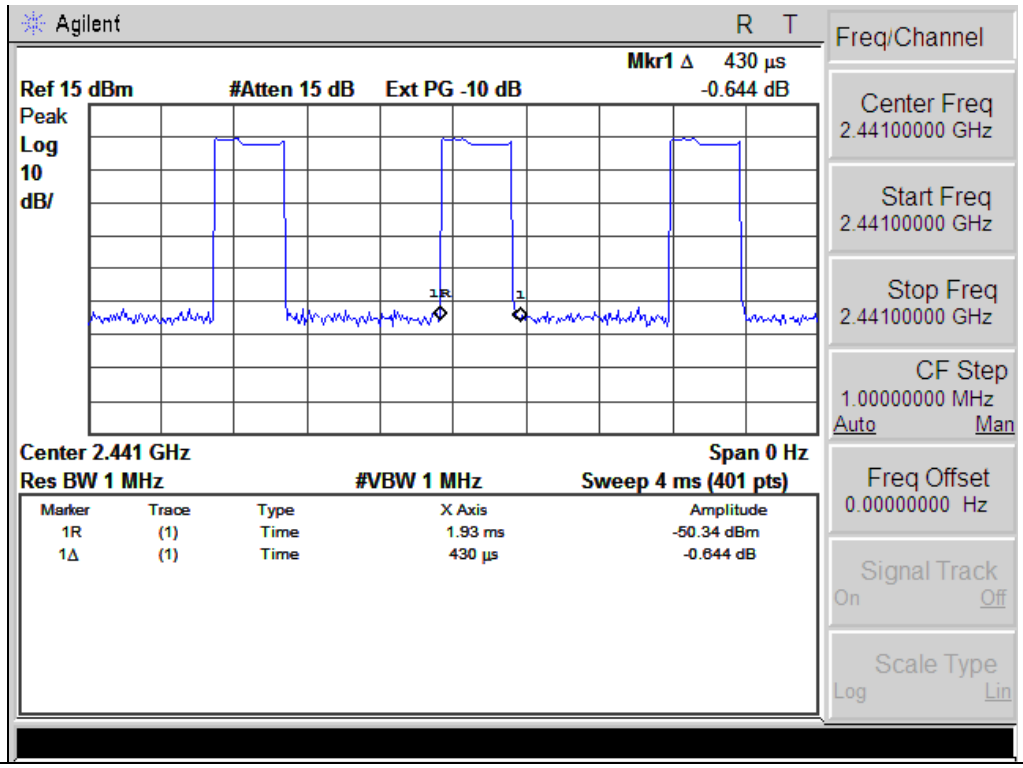
CH39-DH1



CH39-2DH1



CH39-3DH1



6. HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (Channel Separation)
VB	100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.1.1 TEST PROCEDURE

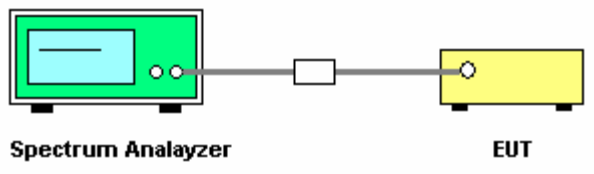
a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.

b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

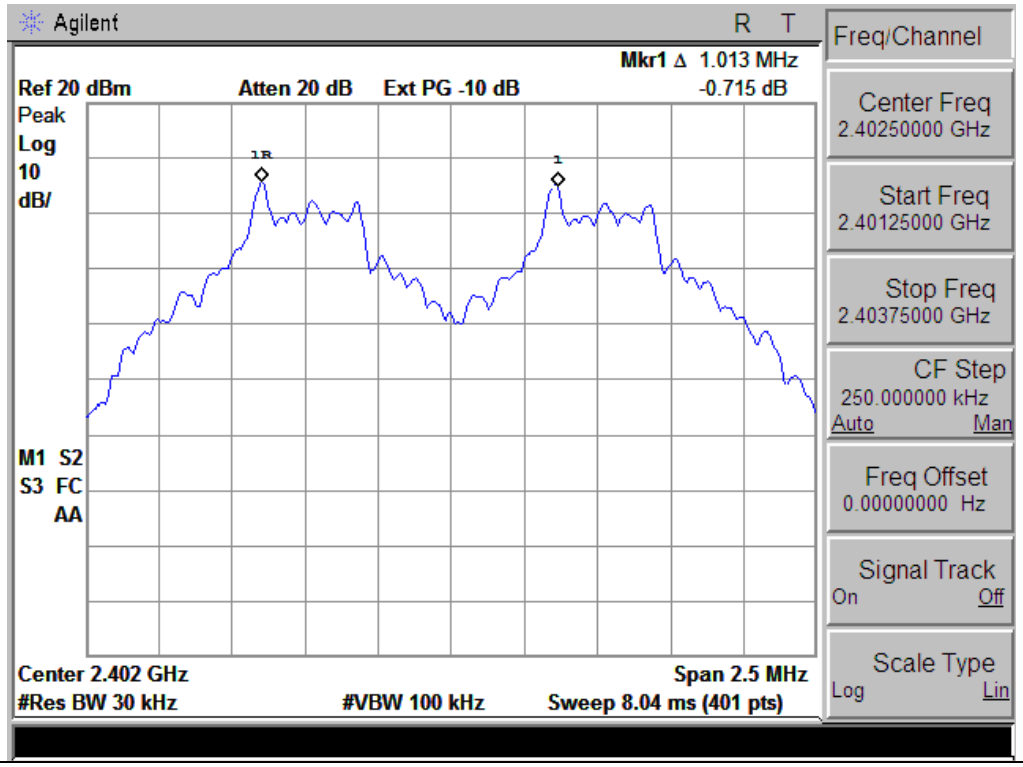
6.1.5 TEST RESULTS

EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00 / CH39 /CH78 (1Mbps Mode)		

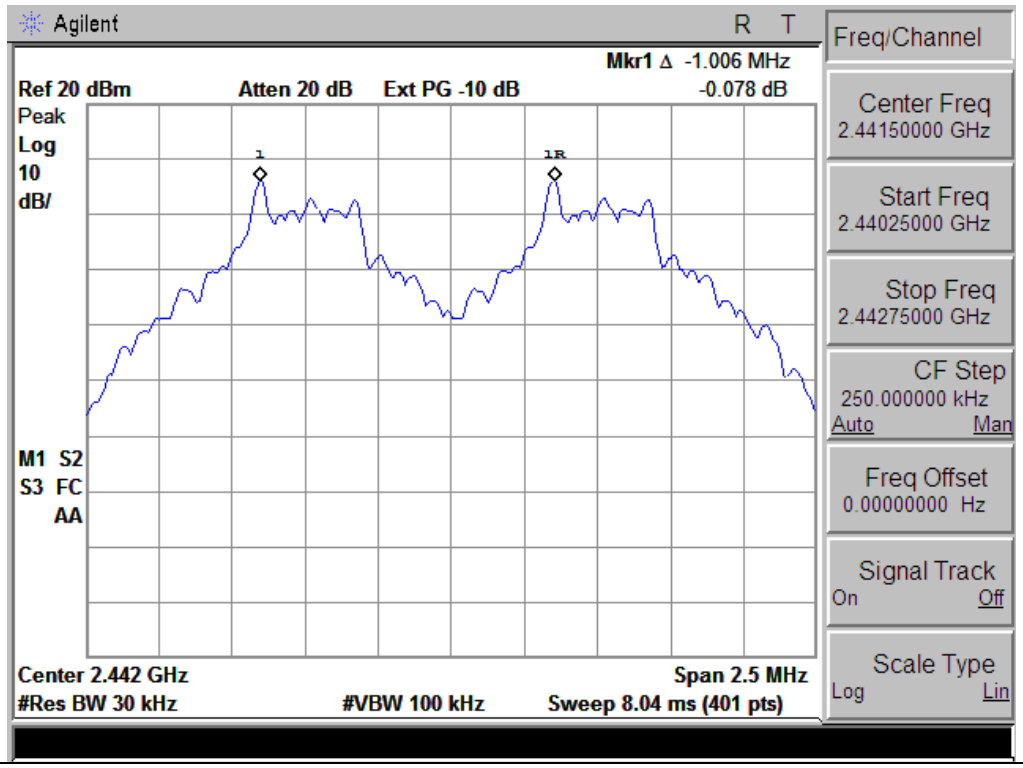
Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.013	**Complies**
2441 MHz	1.006	**Complies**
2480 MHz	1.006	**Complies**

Ch. Separation Limits: >2/3 of 20dB bandwidth

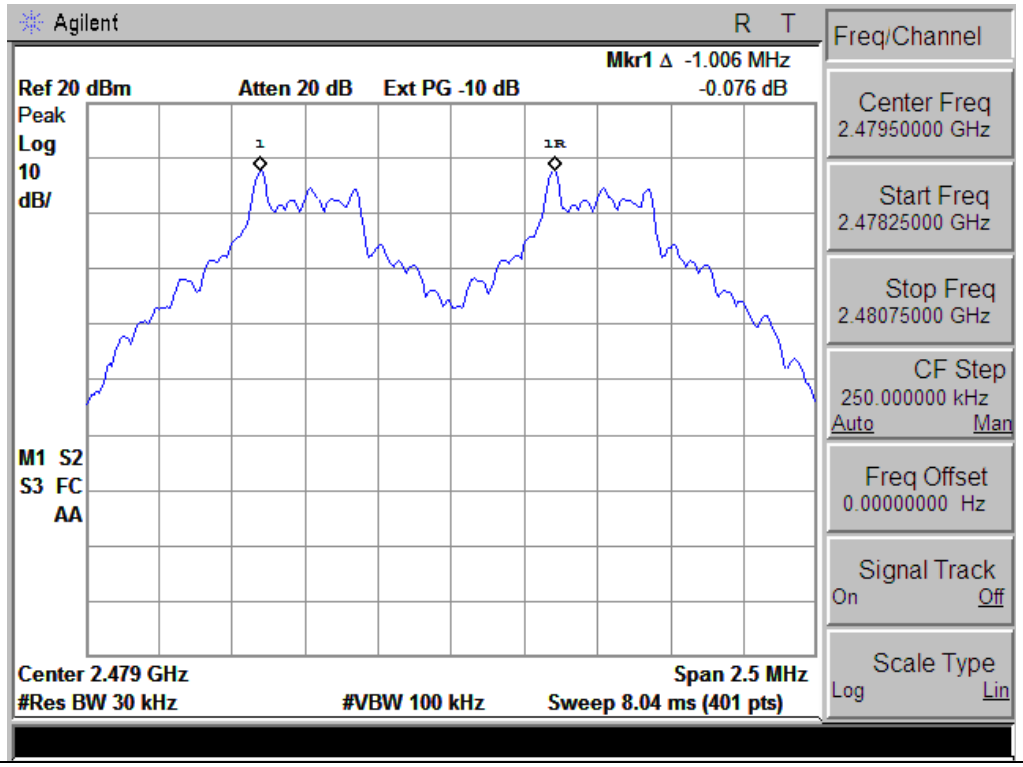
CH00 -1Mbps



CH39 -1Mbps



CH78 -1Mbps

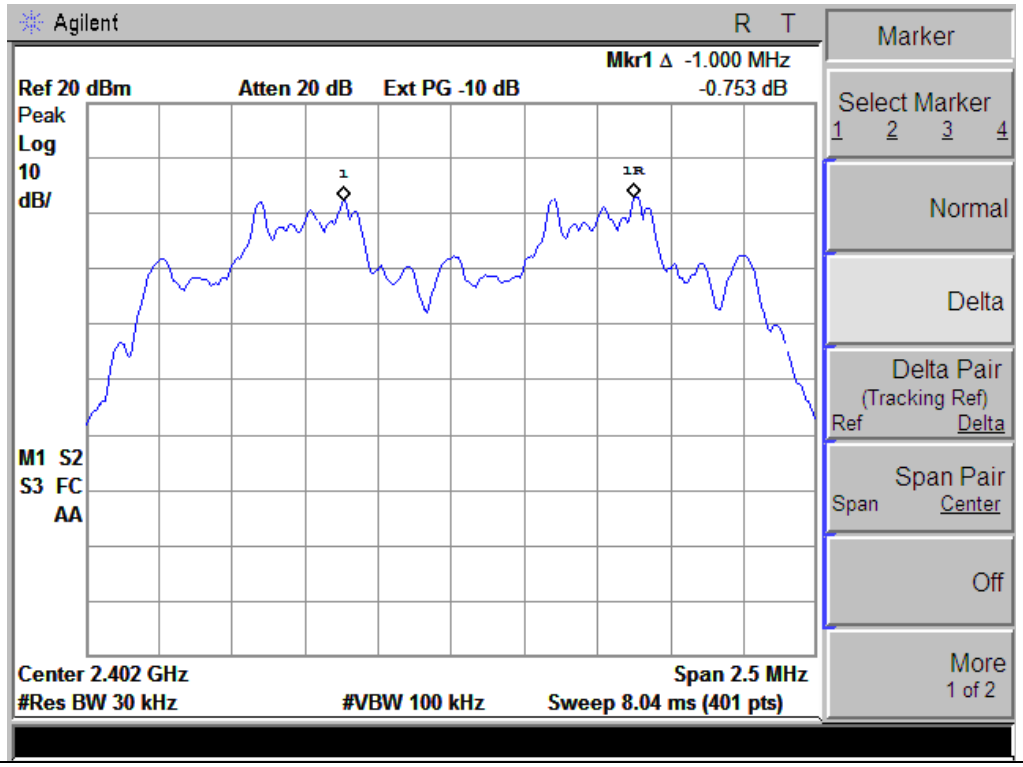


EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00 / CH39 /CH78 (2Mbps Mode)		

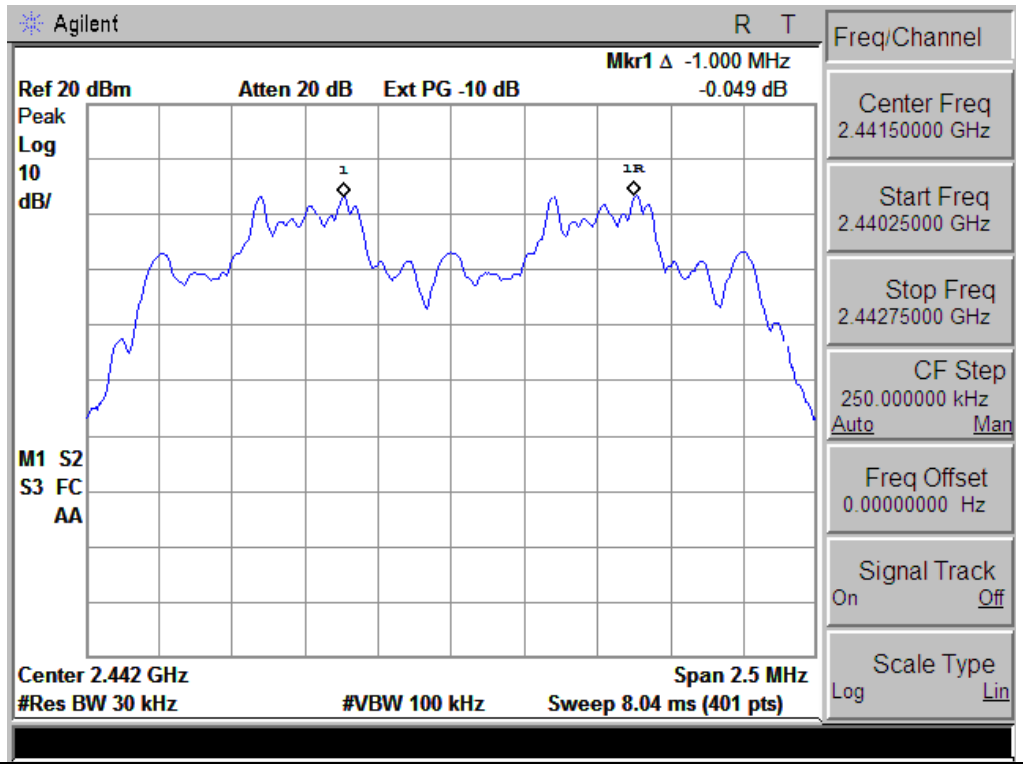
Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.000	**Complies**
2441 MHz	1.000	**Complies**
2480 MHz	1.000	**Complies**

Ch. Separation Limits: >2/3 of 20dB bandwidth

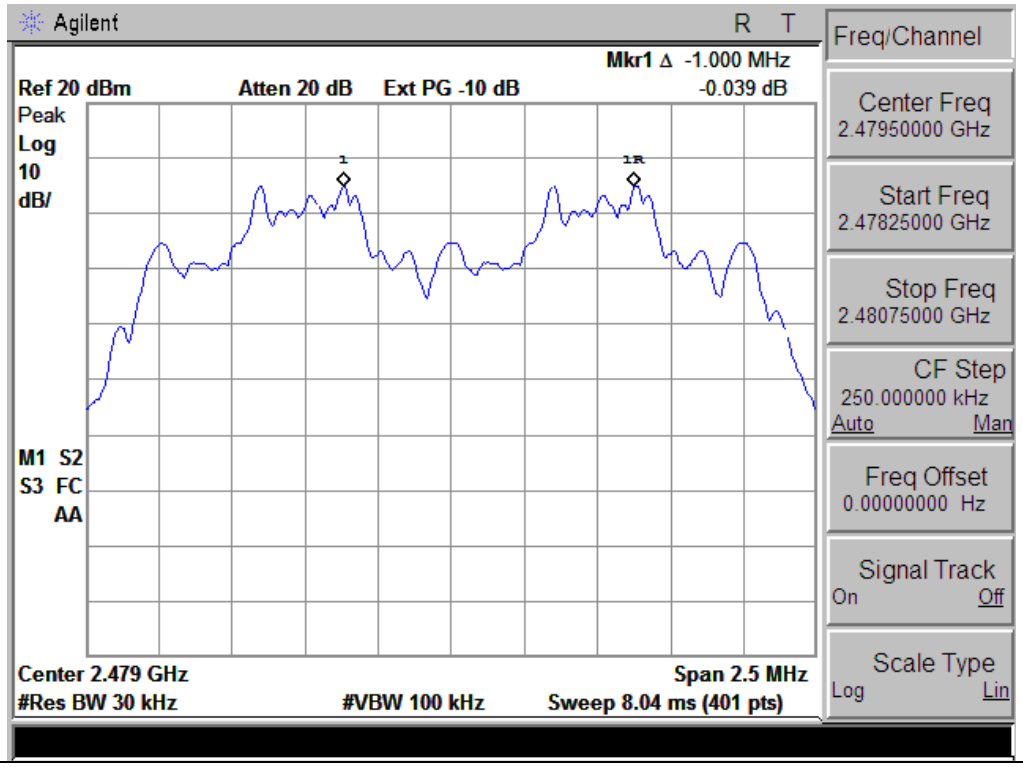
CH00 -2Mbps



CH39 -2Mbps



CH78 -2Mbps

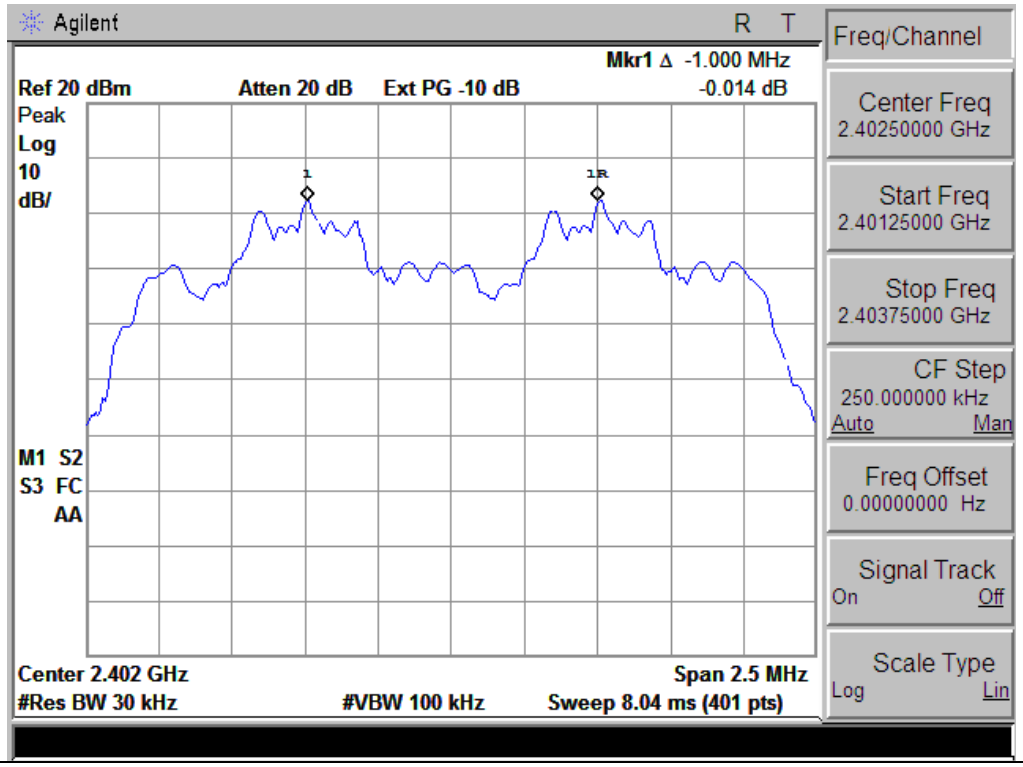


EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00 / CH39 /CH78 (3Mbps Mode)		

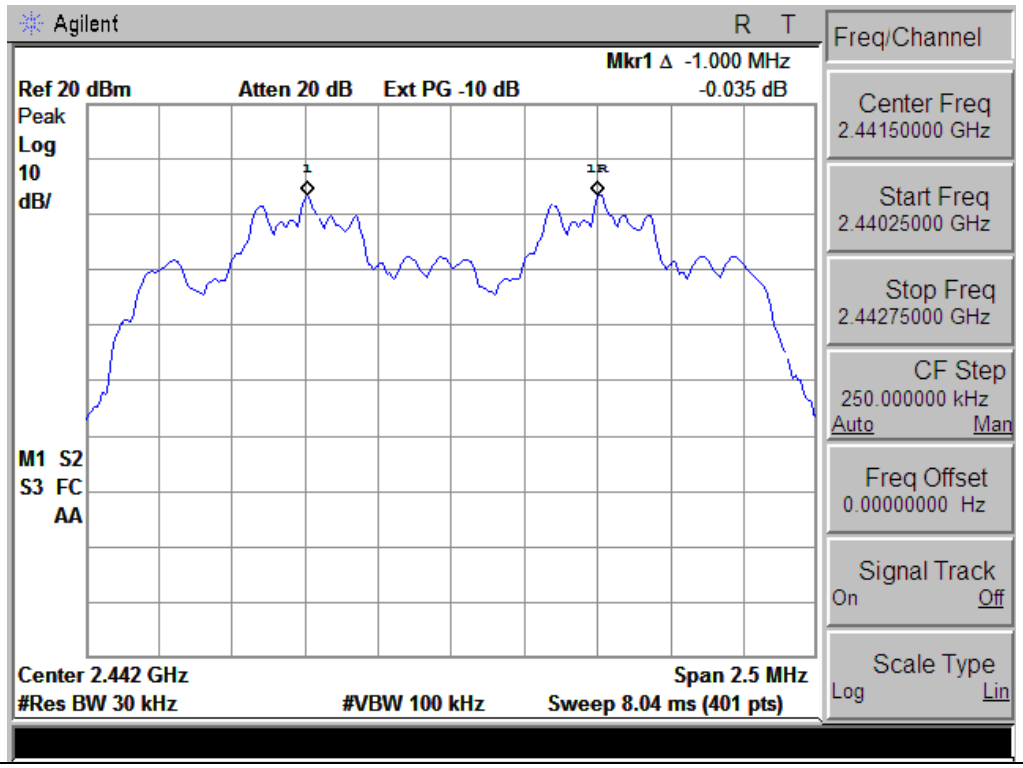
Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.000	**Complies**
2441 MHz	1.000	**Complies**
2480 MHz	1.000	**Complies**

Ch. Separation Limits: >2/3 of 20dB bandwidth

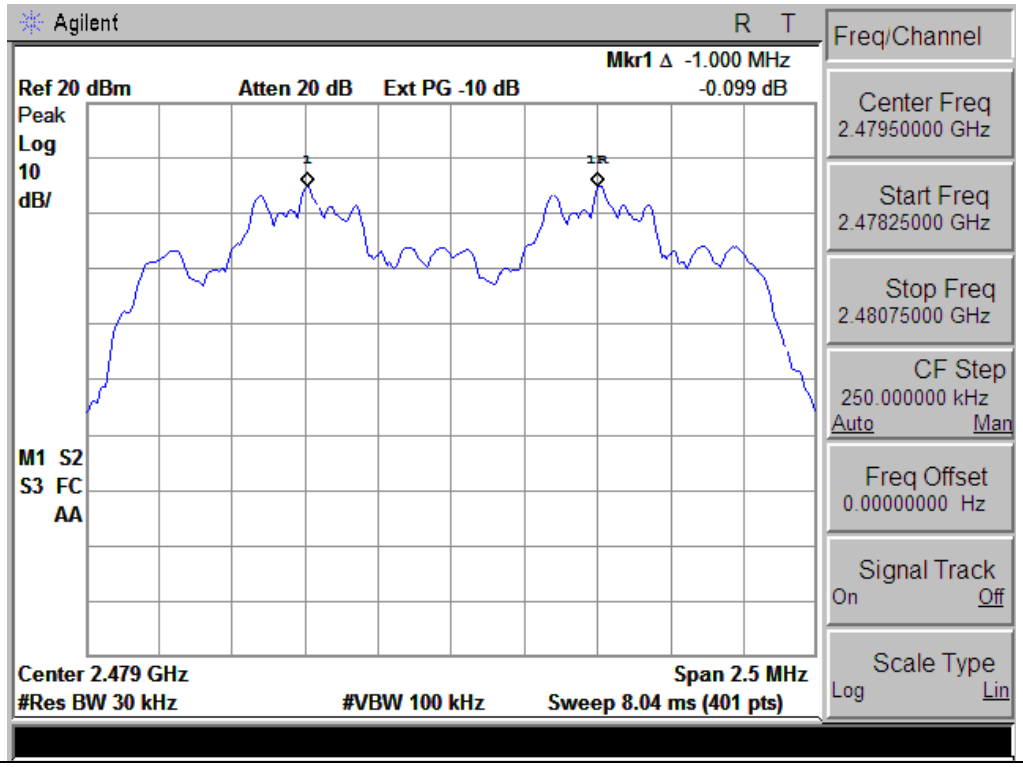
CH00 -3Mbps



CH39 -3Mbps



CH78 -3Mbps



7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

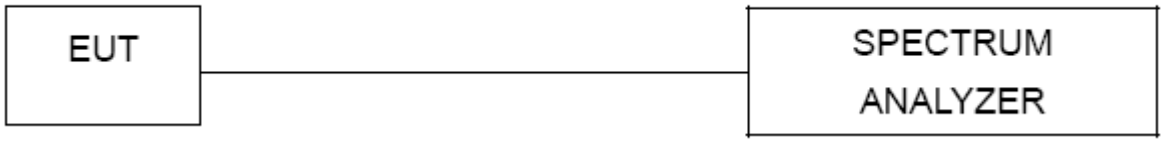
7.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting : RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

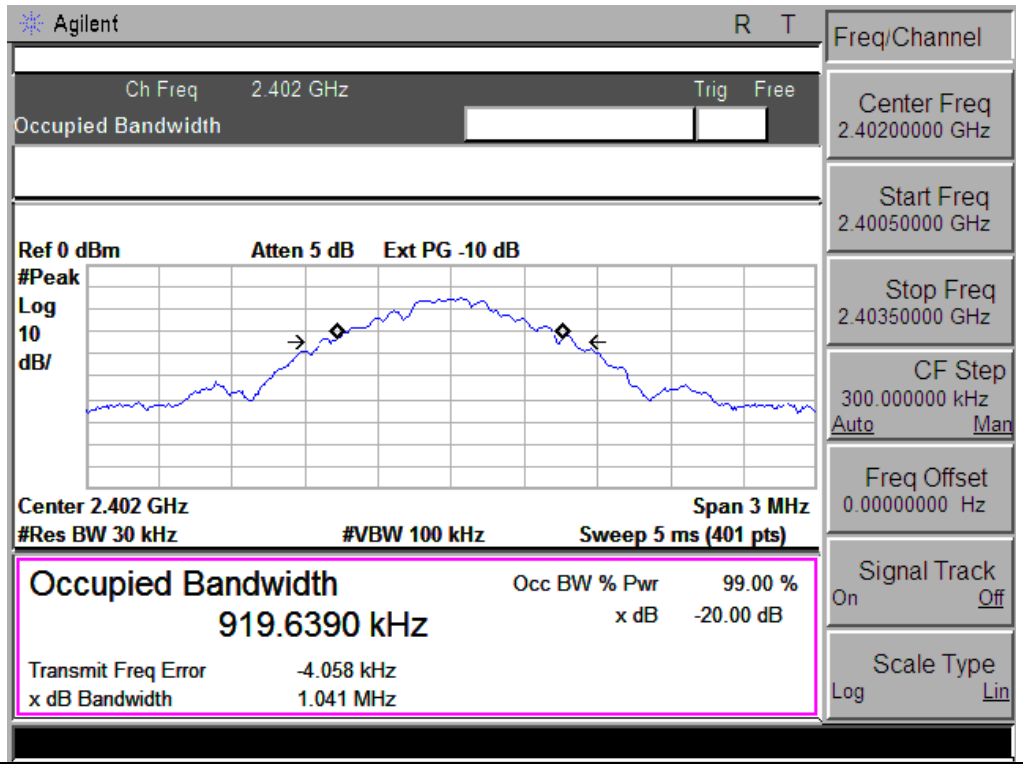
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 TEST RESULTS

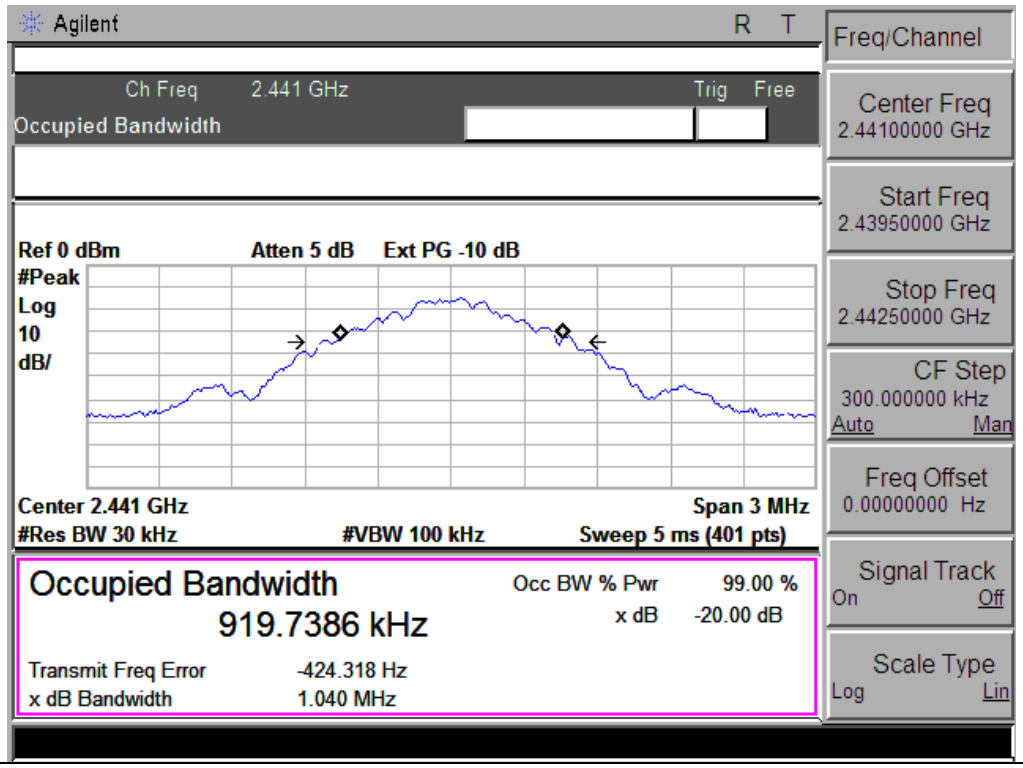
EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00 / CH39 /C78**(1Mbps)**		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.041	**PASS**
2441 MHz	1.040	**PASS**
2480 MHz	1.037	**PASS**

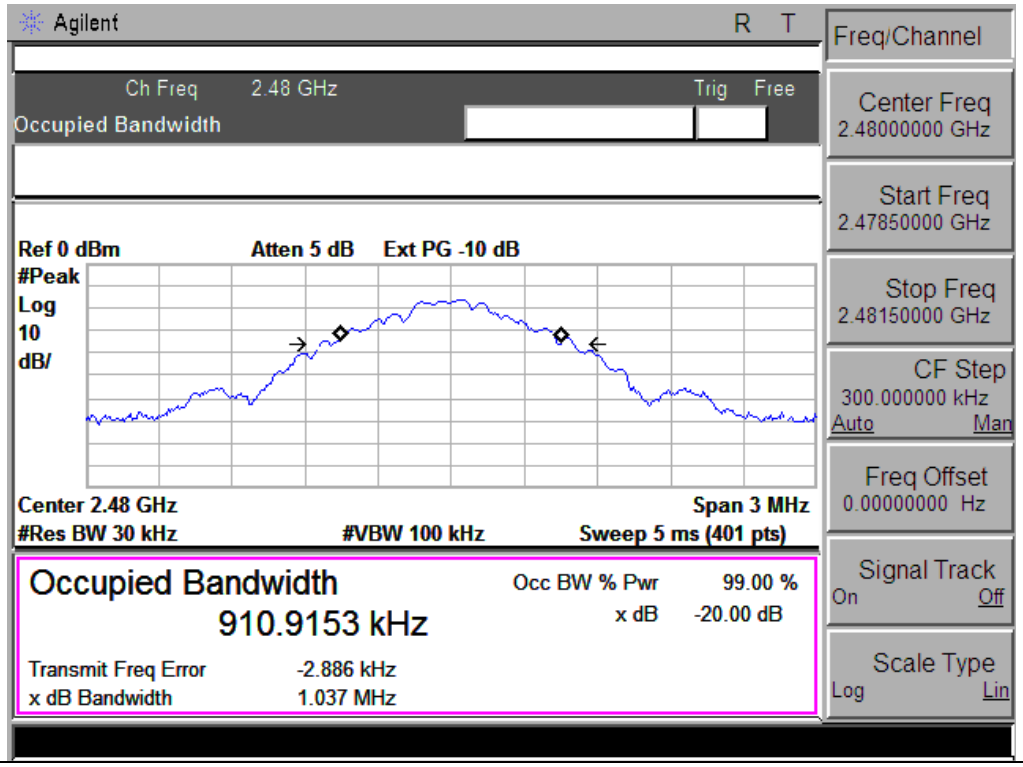
CH00-1Mbps



CH39 -1Mbps



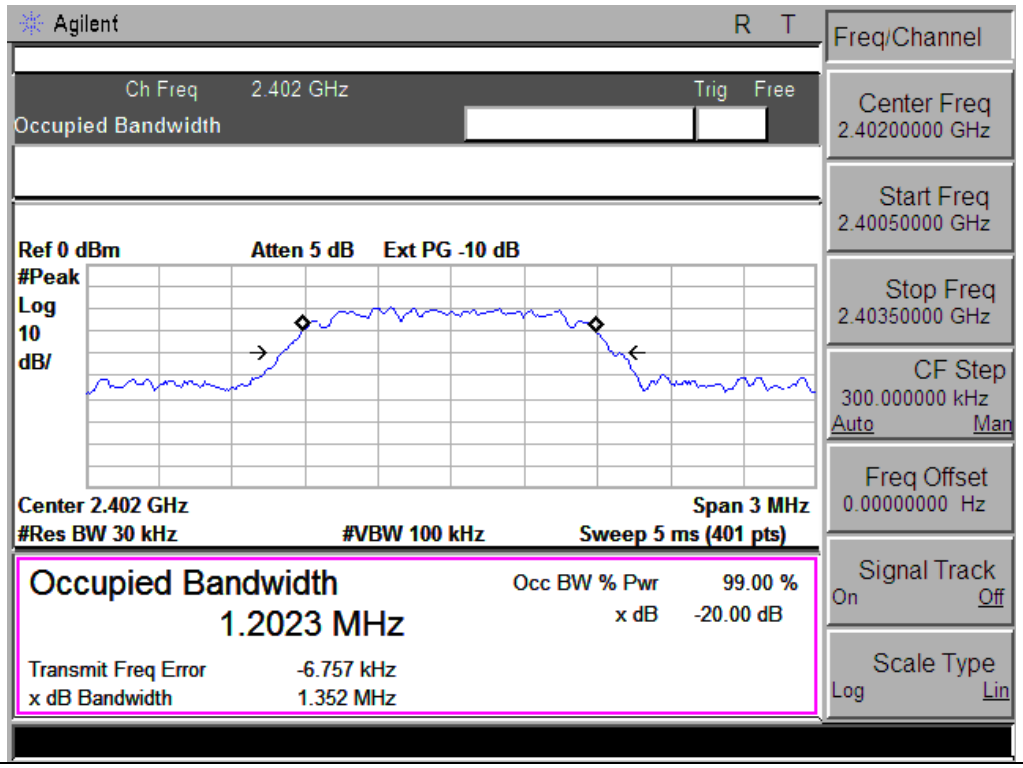
CH78 -1Mbps



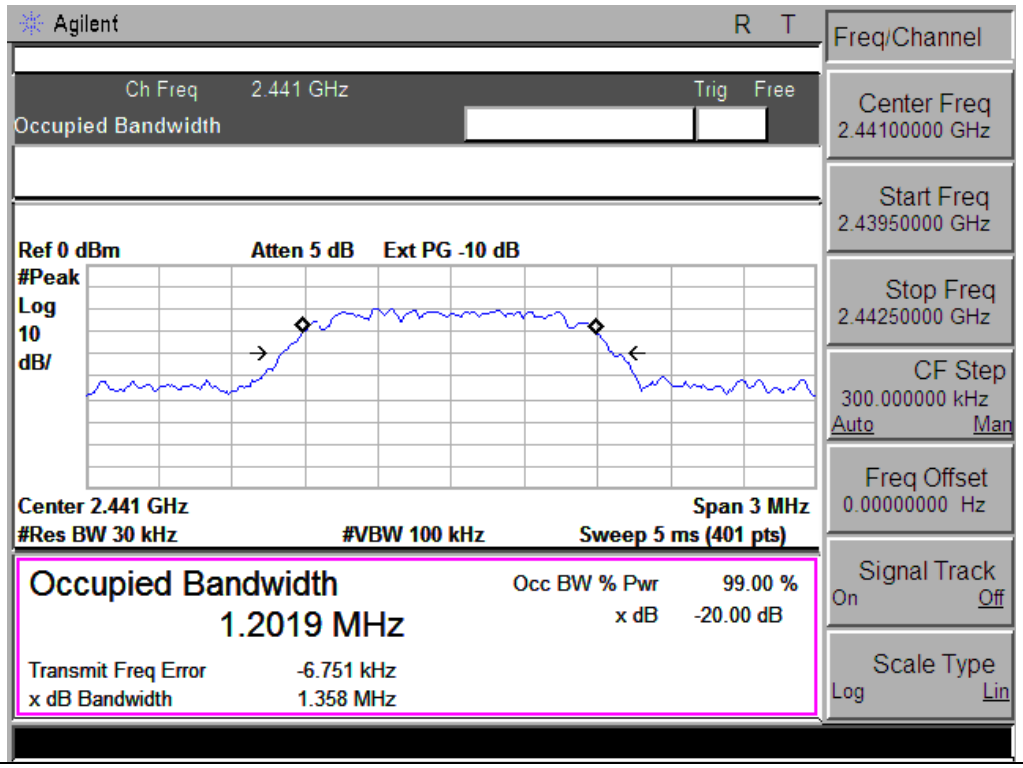
EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00 / CH39 /C78**(2Mbps)**		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.352	**PASS**
2441 MHz	1.358	**PASS**
2480 MHz	1.350	**PASS**

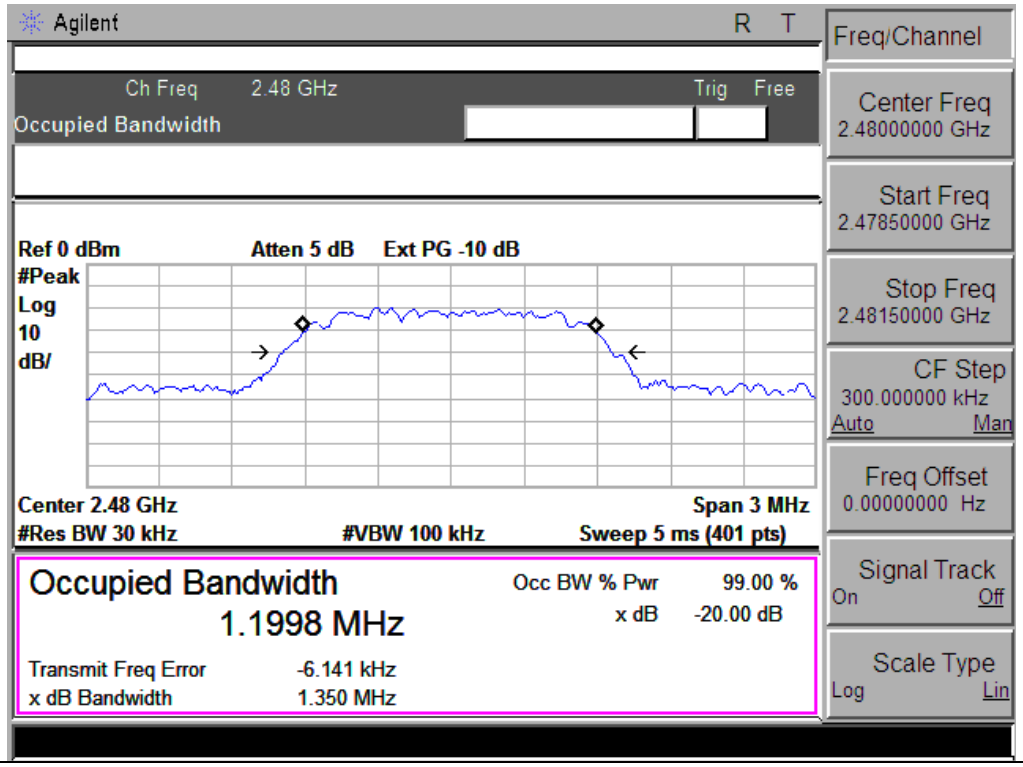
CH00 -2Mbps



CH39 -2Mbps



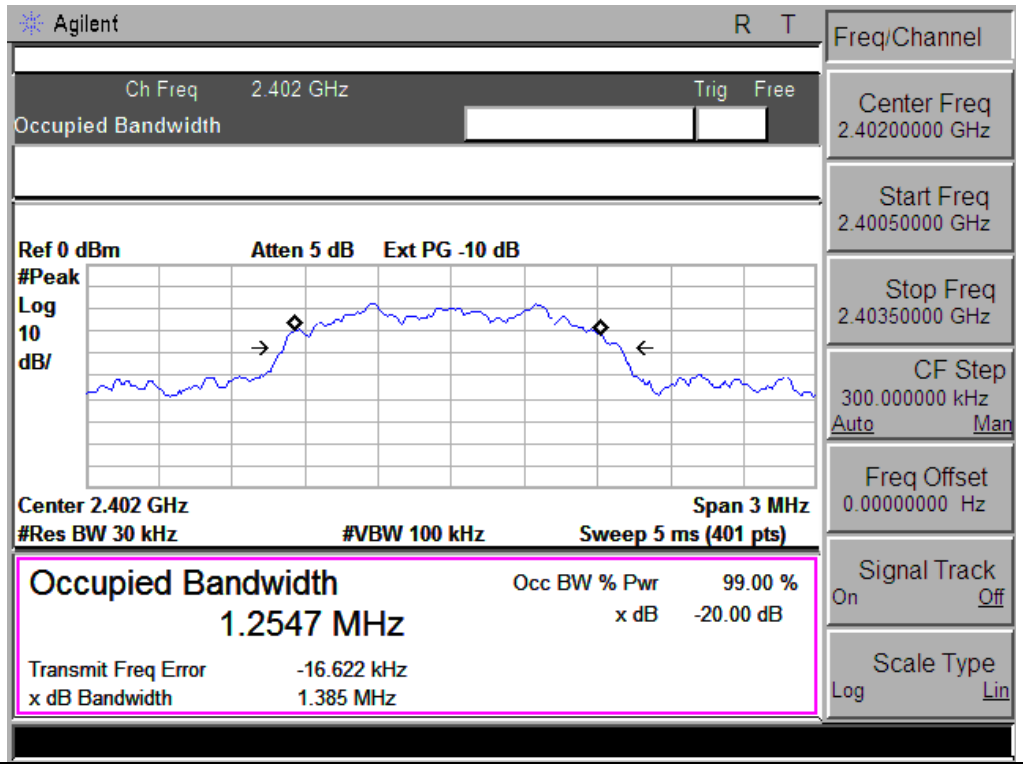
CH78 -2Mbps



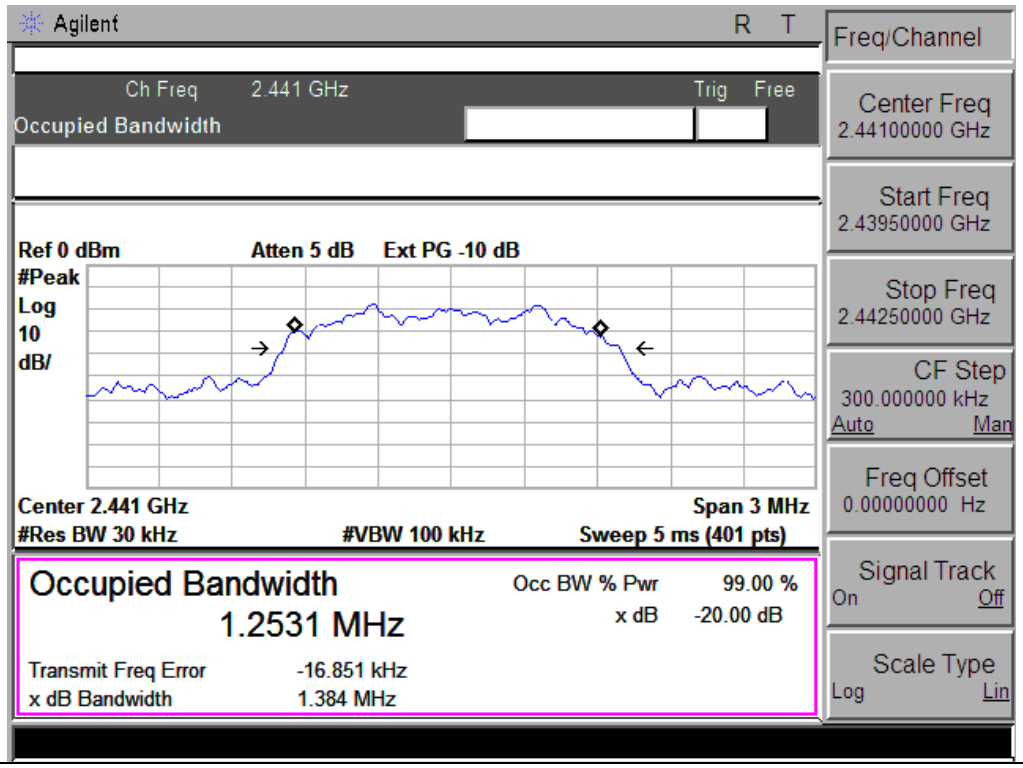
EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00 / CH39 /C78**(3Mbps)**		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.385	**PASS**
2441 MHz	1.384	**PASS**
2480 MHz	1.382	**PASS**

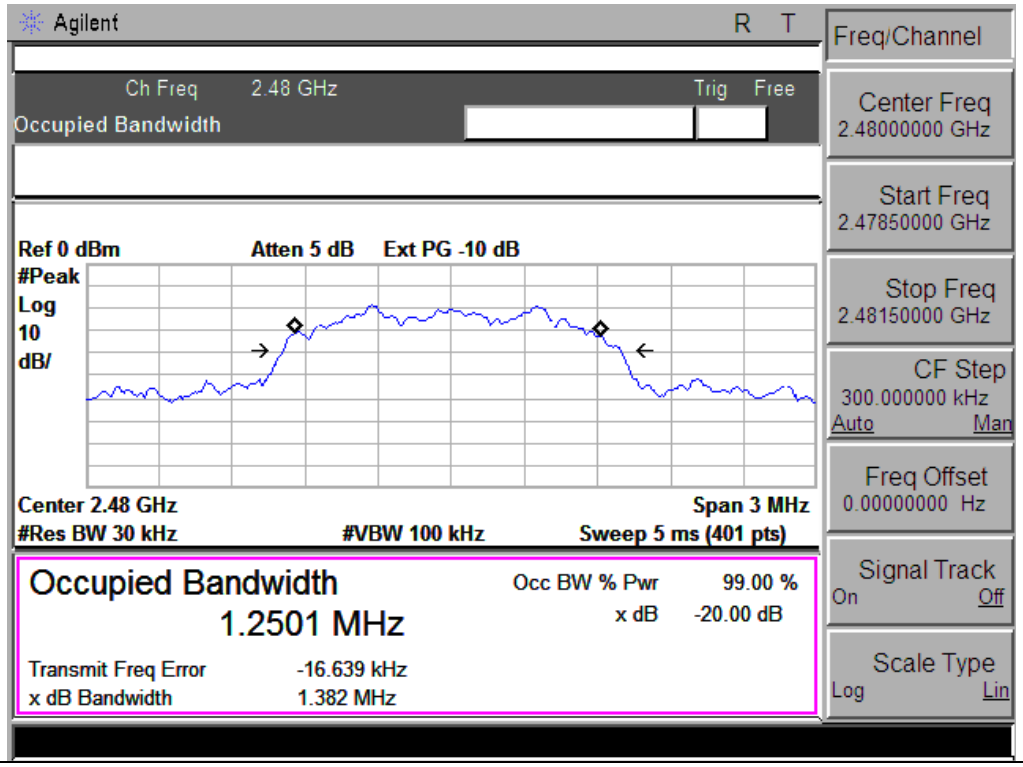
CH00 -3Mbps



CH39 -3Mbps



CH78 -3Mbps



8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(i)	Peak Output Power	0.125 w or 20.96dBm	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b. Spectrum Setting : RBW > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

VBW ≥ RBW

Sweep = auto

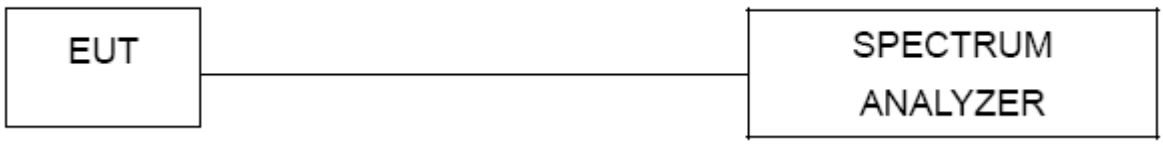
Detector function = peak

Trace = max hold

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

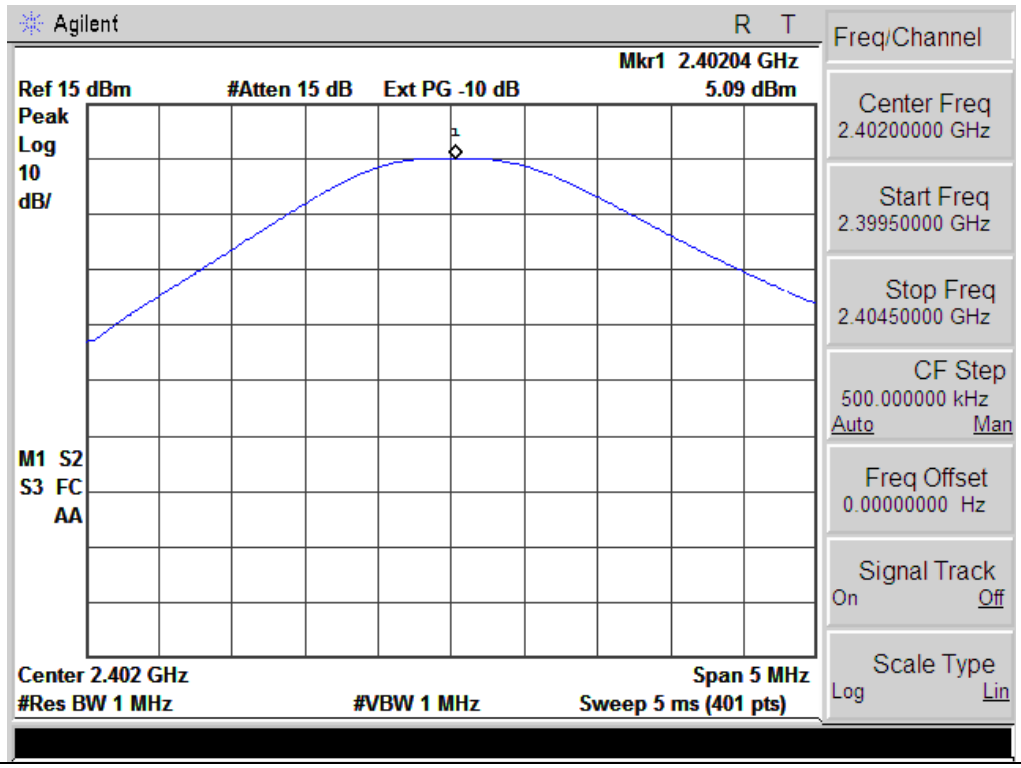
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 TEST RESULTS

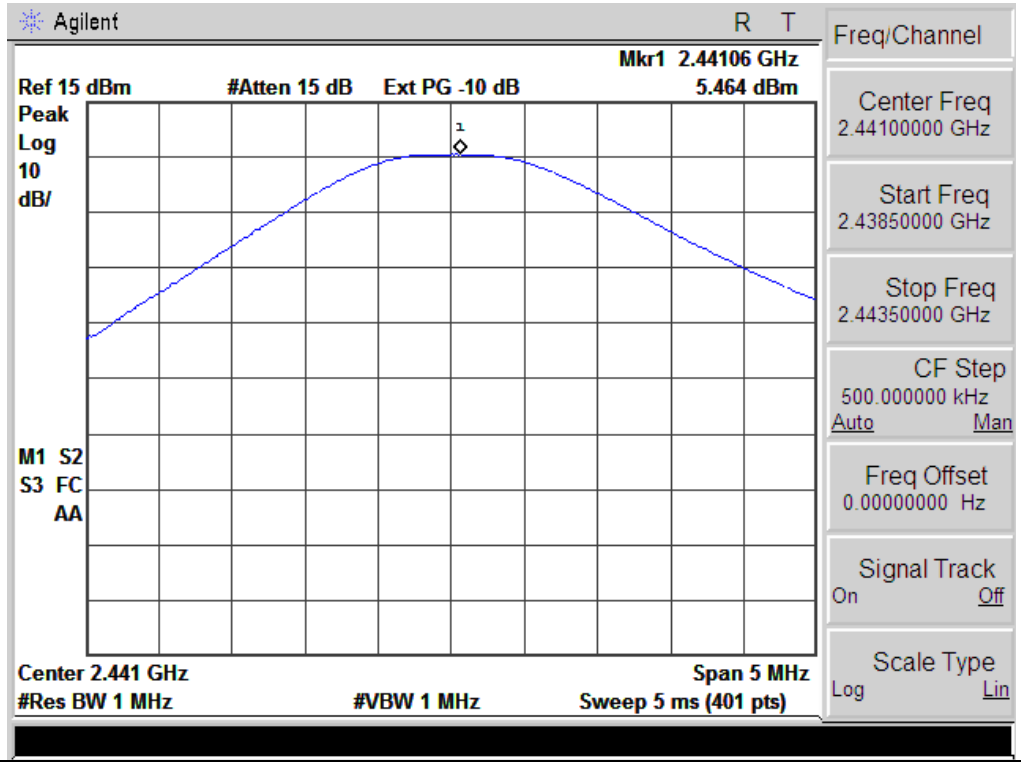
EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)		

1Mbps			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)
CH00	2402	5.090	20.96
CH39	2441	5.464	20.96
CH78	2480	5.434	20.96
2Mbps			
CH00	2402	5.239	20.96
CH39	2441	5.602	20.96
CH78	2480	5.604	20.96
3Mbps			
CH00	2402	5.330	20.96
CH39	2441	5.703	20.96
CH78	2480	5.745	20.96

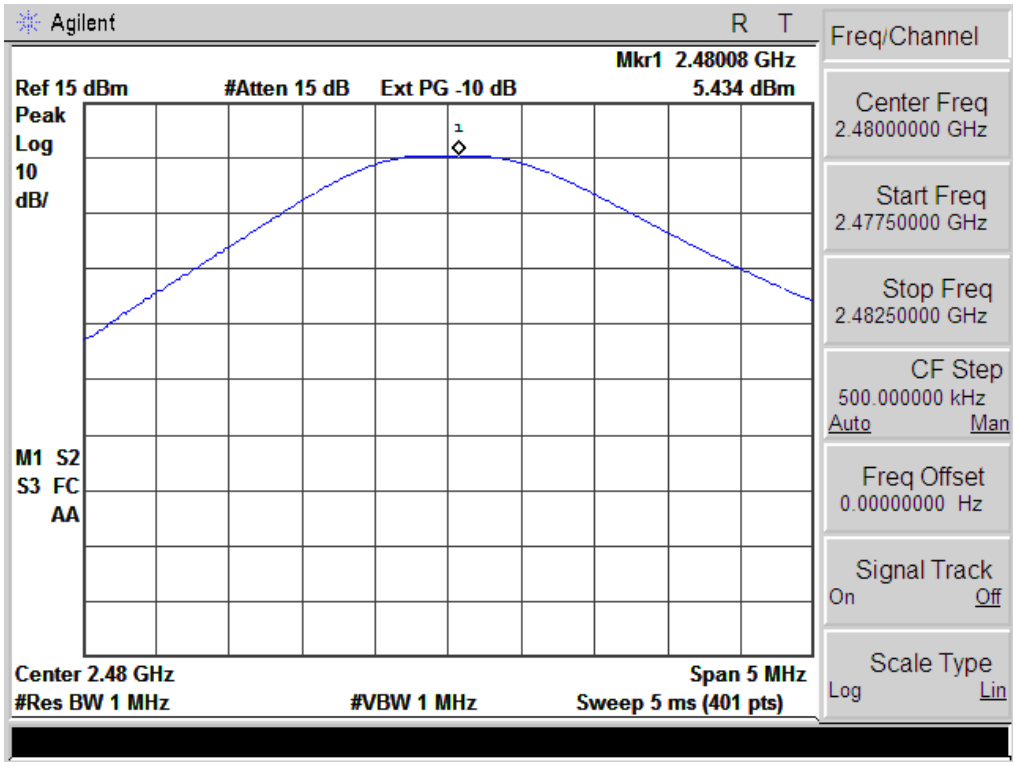
CH00 -1Mbps



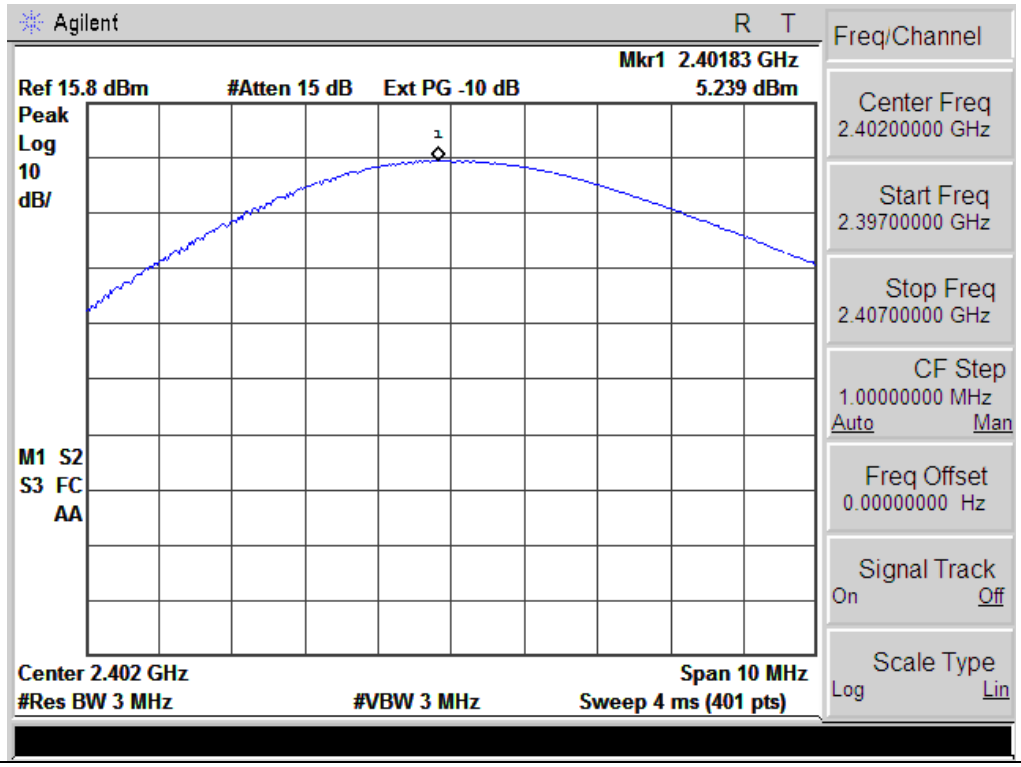
CH39 -1Mbps



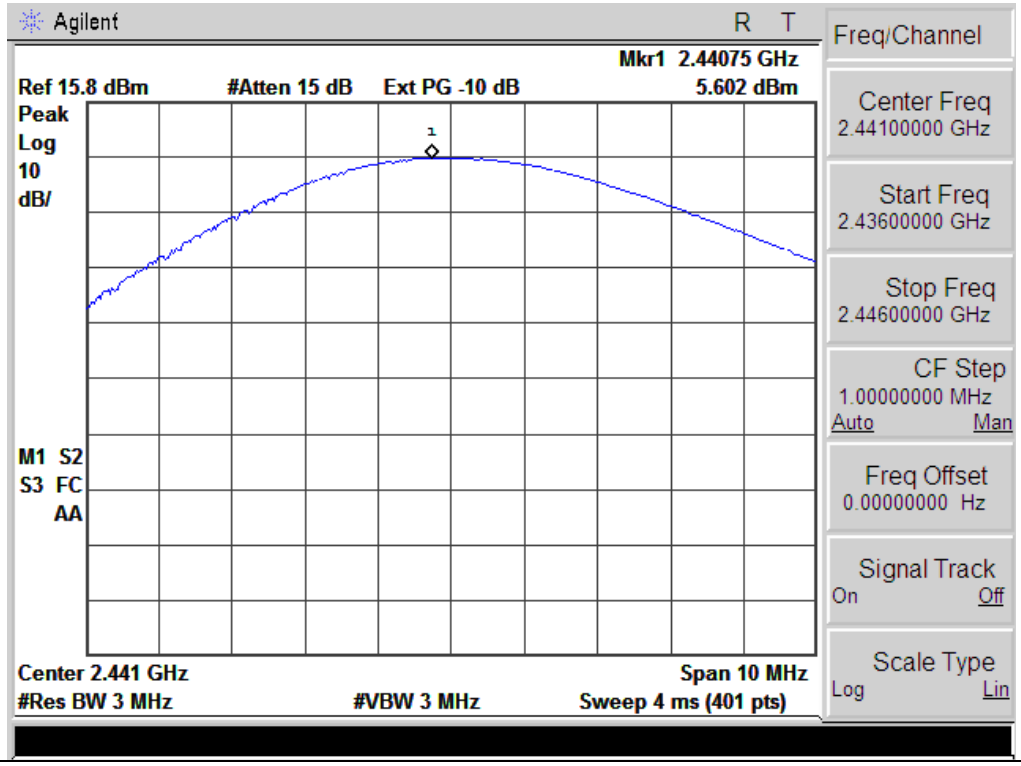
CH78 -1Mbps



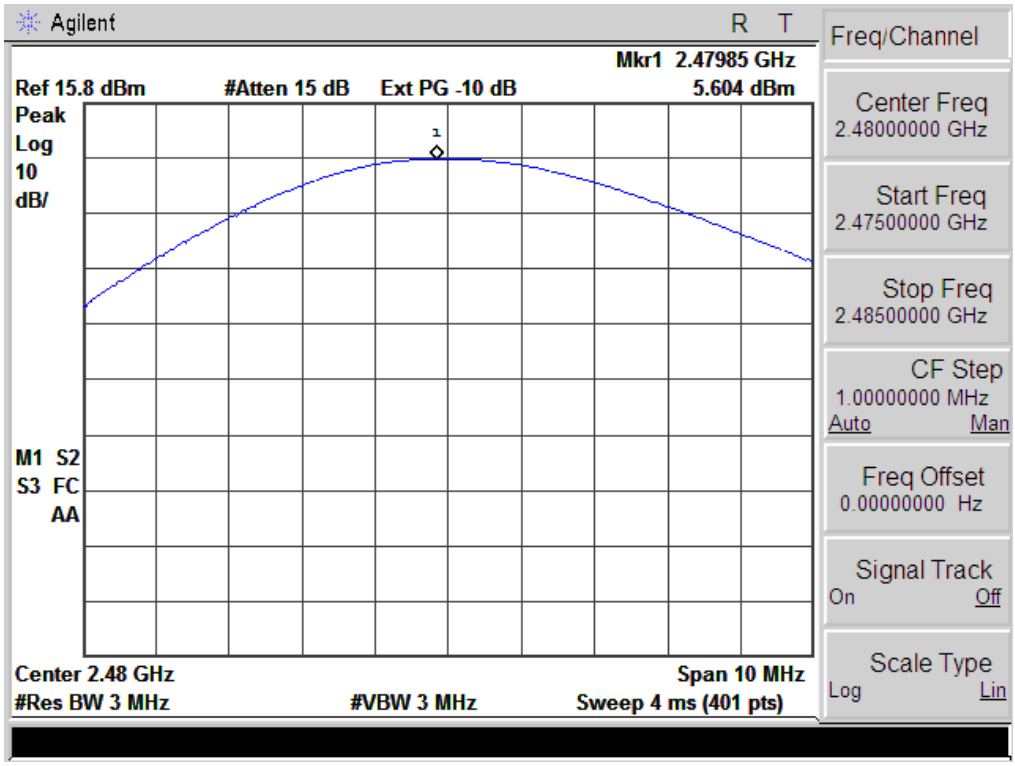
CH00 -2Mbps


Agilent
R T
Mkr1 2.40183 GHz
Ref 15.8 dBm
#Atten 15 dB
Ext PG -10 dB
5.239 dBm
Peak
Log
10
dB/
M1 S2
S3 FC
AA
Center 2.402 GHz
Span 10 MHz
#Res BW 3 MHz
#VBW 3 MHz
Sweep 4 ms (401 pts)
Freq/Channel
Center Freq
2.40200000 GHz
Start Freq
2.39700000 GHz
Stop Freq
2.40700000 GHz
CF Step
1.00000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

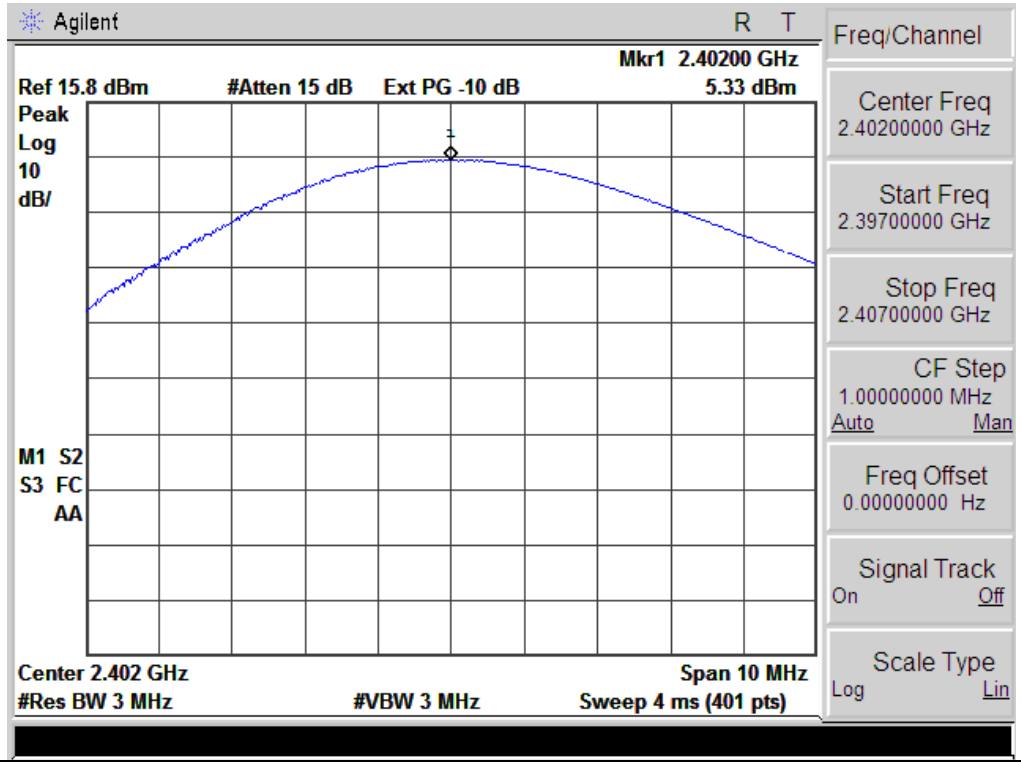
CH39 -2Mbps



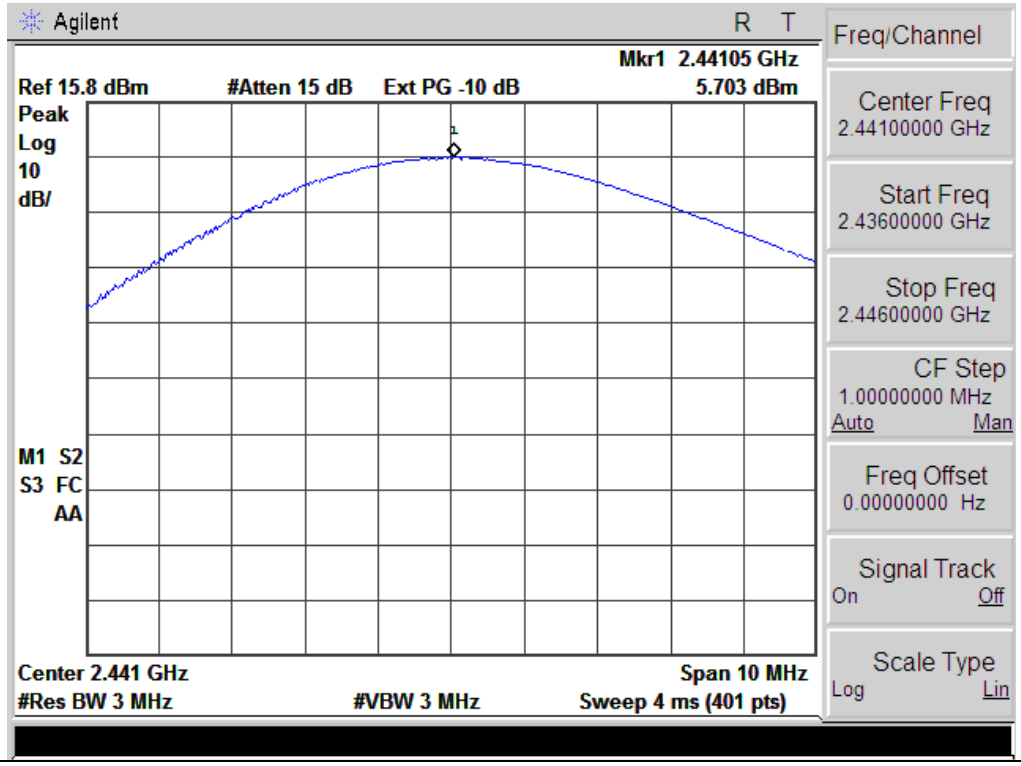
CH78 -2Mbps



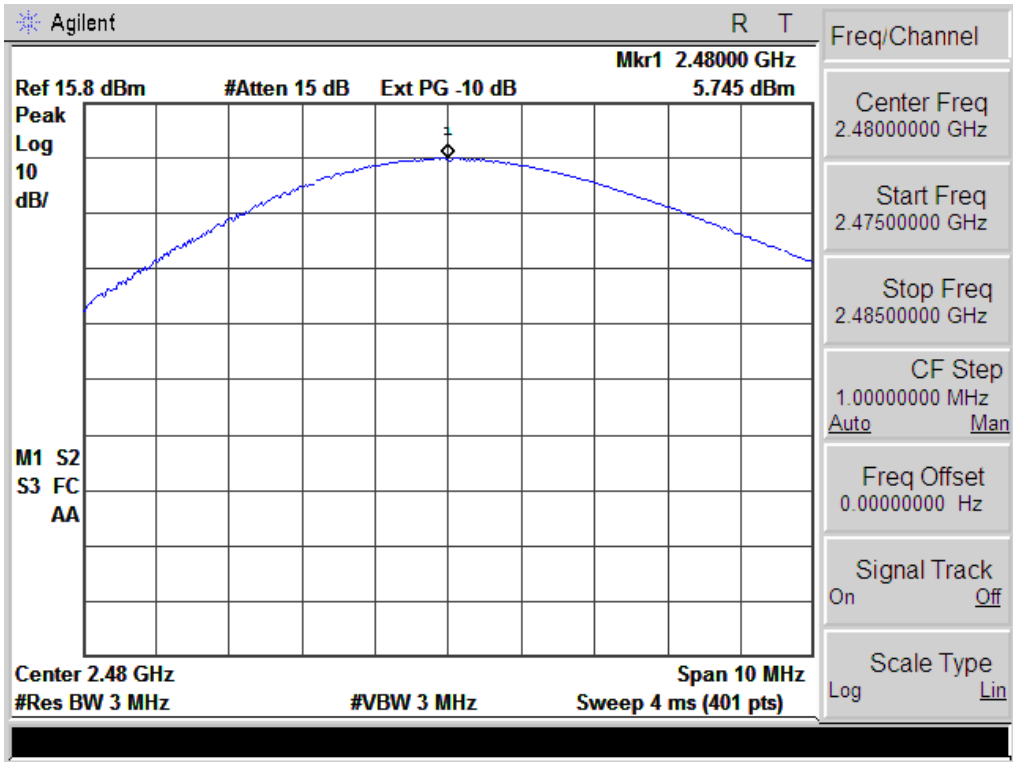
CH00 -3Mbps


Agilent
R T
Mkr1 2.40200 GHz
Ref 15.8 dBm
#Atten 15 dB
Ext PG -10 dB
5.33 dBm
Peak
Log
10
dB/
M1 S2
S3 FC
AA
Center 2.402 GHz
Span 10 MHz
#Res BW 3 MHz
#VBW 3 MHz
Sweep 4 ms (401 pts)
Freq/Channel
Center Freq
2.40200000 GHz
Start Freq
2.39700000 GHz
Stop Freq
2.40700000 GHz
CF Step
1.00000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

CH39 -3Mbps



CH78 -3Mbps



9. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

APPLICABLE STANDARD

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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

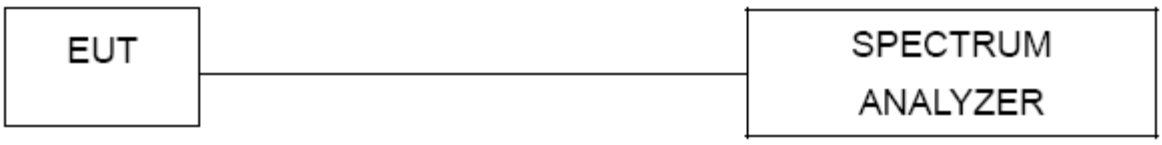
TEST PROCEDURE

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

9.1 DEVIATION FROM STANDARD

No deviation.

9.2 TEST SETUP



9.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

9.4 TEST RESULTS

EUT：	Smartphone	Model Name ：	SP-SI-602
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00/ CH78 (1M/2M/3Mbps Mode)		

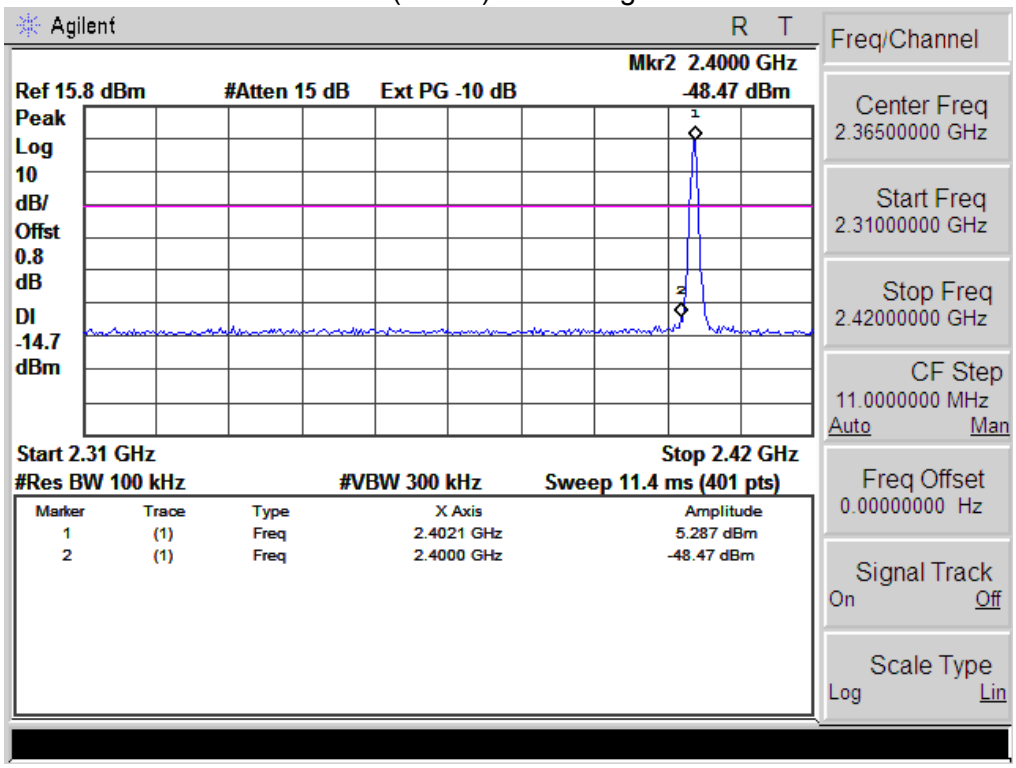
Frequency Band	Delta Peak to band emission (dBc)	＞Limit (dBc)	Result
1Mbps Non-hopping			
Left-band	53.76	20	Pass
Right-band	58.79	20	Pass
2Mbps Non-hopping			
Left-band	56.79	20	Pass
Right-band	57.42	20	Pass
3Mbps Non-hopping			
Left-band	53.42	20	Pass
Right-band	56.32	20	Pass
1Mbps hopping			
Left-band	55.40	20	Pass
Right-band	58.52	20	Pass
2Mbps hopping			
Left-band	55.91	20	Pass
Right-band	56.76	20	Pass
3Mbps hopping			
Left-band	54.58	20	Pass
Right-band	56.86	20	Pass

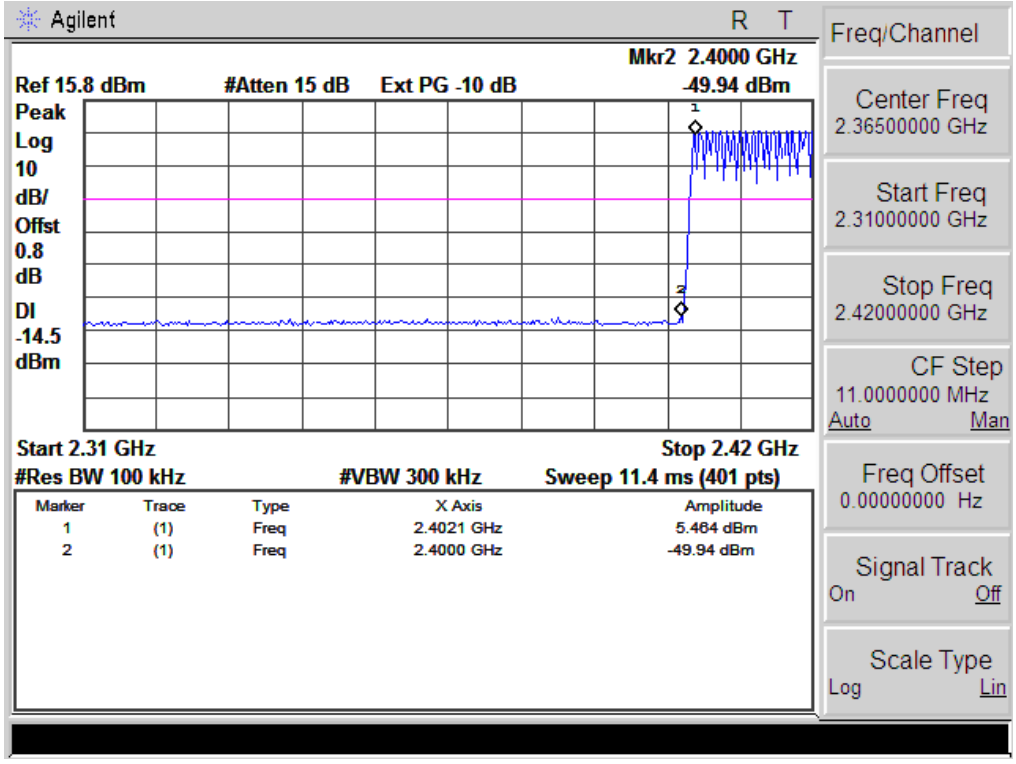
Radiated band edge:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
1Mbps Non-hopping							
2390	64.67	-13.06	51.61	74	-22.39	peak	Vertical
2390	62.58	-13.06	49.52	74	-24.48	peak	Horizontal
2483.5	62.66	-12.78	49.88	74	-24.12	peak	Vertical
2483.5	63.54	-12.78	50.76	74	-23.24	peak	Horizontal
1Mbps hopping							
2390	63.78	-13.06	50.72	74	-23.28	peak	Vertical
2390	62.65	-13.06	49.59	74	-24.41	peak	Horizontal
2483.5	61.86	-12.78	49.08	74	-24.92	peak	Vertical
2483.5	59.44	-12.78	46.66	74	-27.34	peak	Horizontal
2Mbps Non-hopping							
2390	62.57	-13.06	49.51	74	-24.49	peak	Vertical
2390	61.39	-13.06	48.33	74	-25.67	peak	Horizontal
2483.5	62.53	-12.78	49.75	74	-24.25	peak	Vertical
2483.5	58.85	-12.78	46.07	74	-27.93	peak	Horizontal
2Mbps hopping							
2390	61.33	-13.06	48.27	74	-25.73	peak	Vertical
2390	61.26	-13.06	48.20	74	-25.80	peak	Horizontal
2483.5	63.87	-12.78	51.09	74	-22.91	peak	Vertical
2483.5	57.65	-12.78	44.87	74	-29.13	peak	Horizontal
3Mbps Non-hopping							
2390	61.52	-13.06	48.46	74	-25.54	peak	Vertical
2390	59.89	-13.06	46.83	74	-27.17	peak	Horizontal
2483.5	63.67	-12.78	50.89	74	-23.11	peak	Vertical
2483.5	64.58	-12.78	51.80	74	-22.20	peak	Horizontal
3Mbps hopping							
2390	60.32	-13.06	47.26	74	-26.74	peak	Vertical
2390	59.68	-13.06	46.62	74	-27.38	peak	Horizontal
2483.5	62.79	-12.78	50.01	74	-23.99	peak	Vertical
2483.5	63.62	-12.78	50.84	74	-23.16	peak	Horizontal

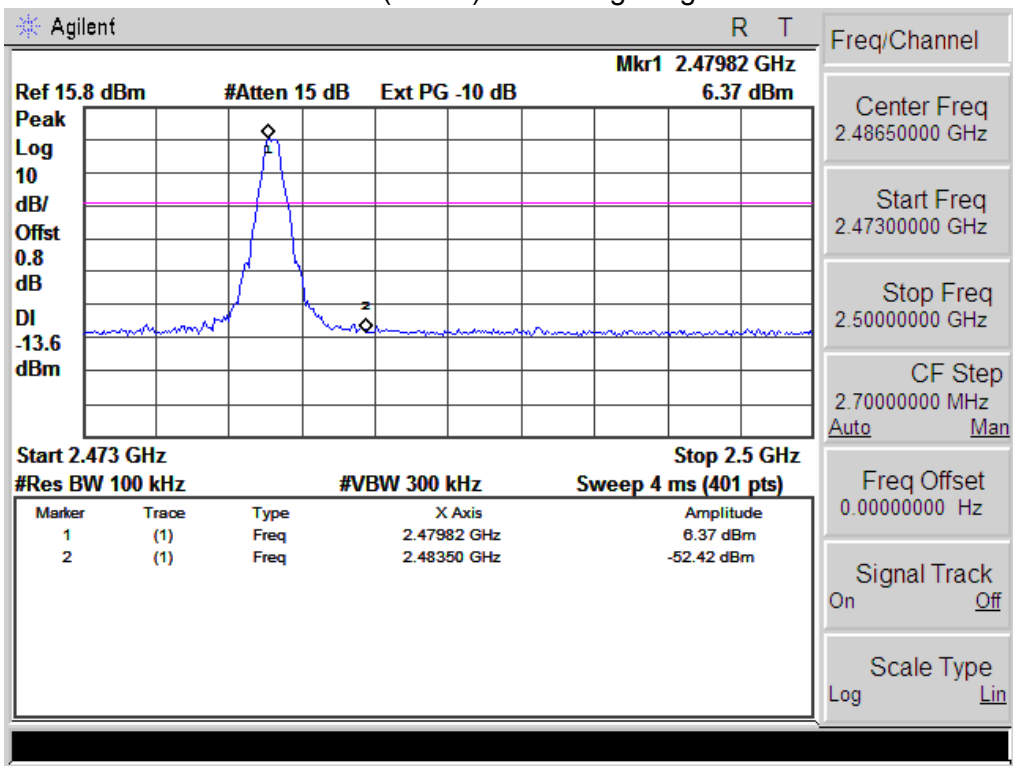
Note: Refer to chapter 3.2 test method, When PK value is lower than the Average value limit, average didn't record.

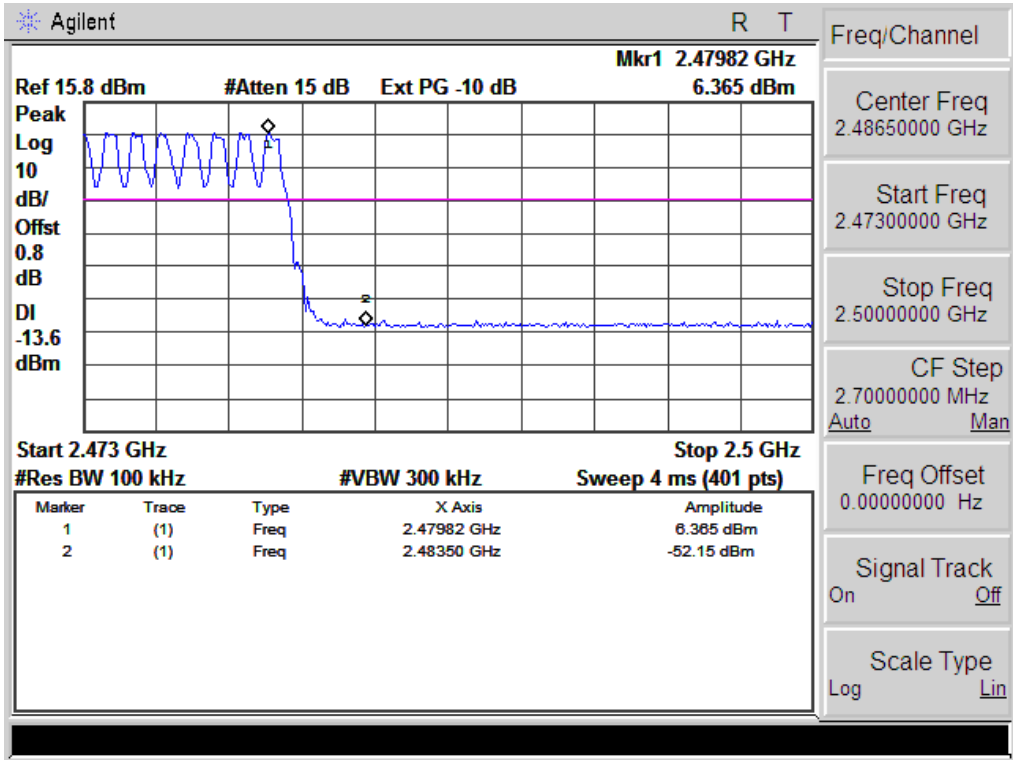
BDR mode (GFSK): Band Edge-Left Side



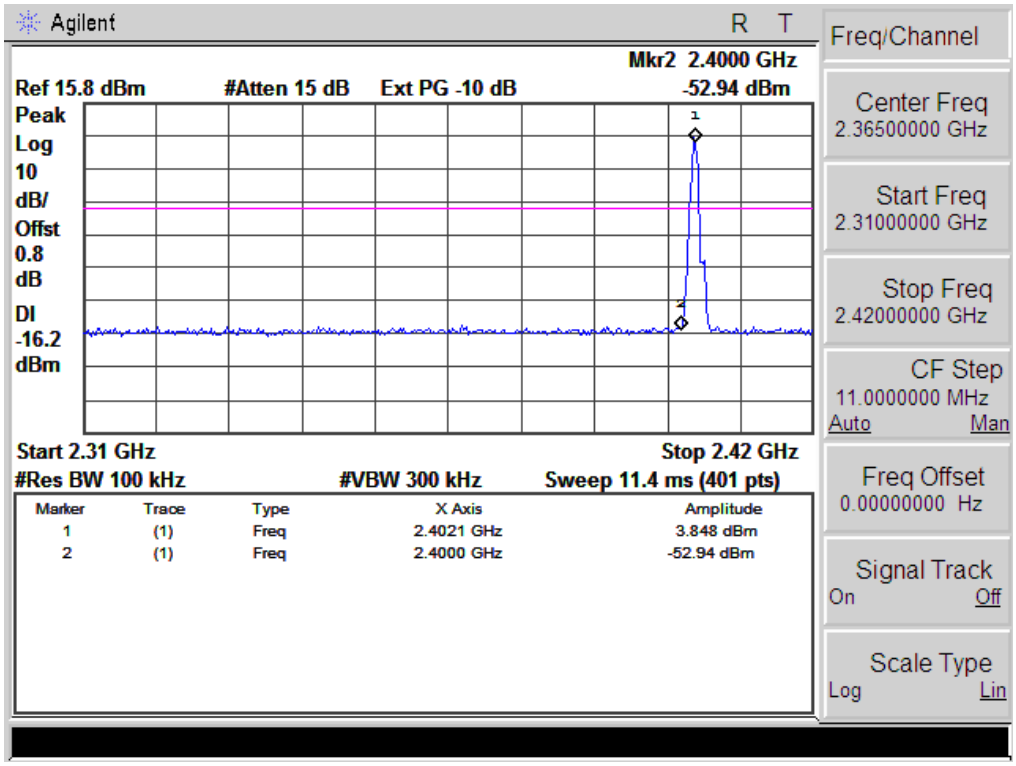


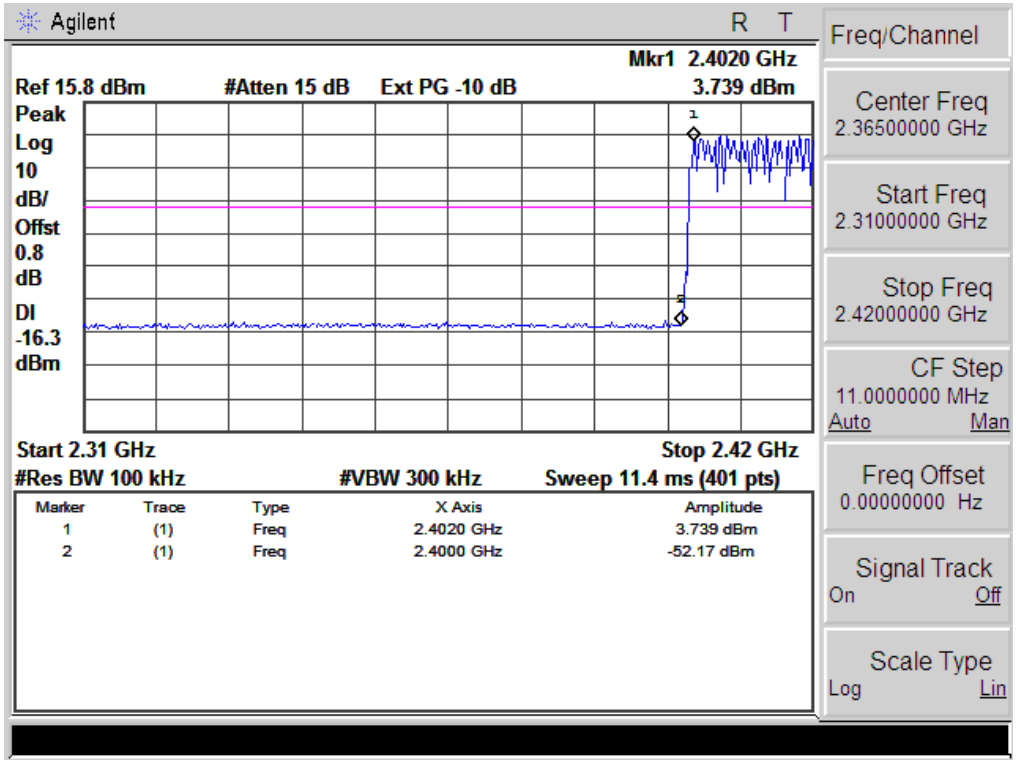
BDR mode (GFSK): Band Edge-Right Side



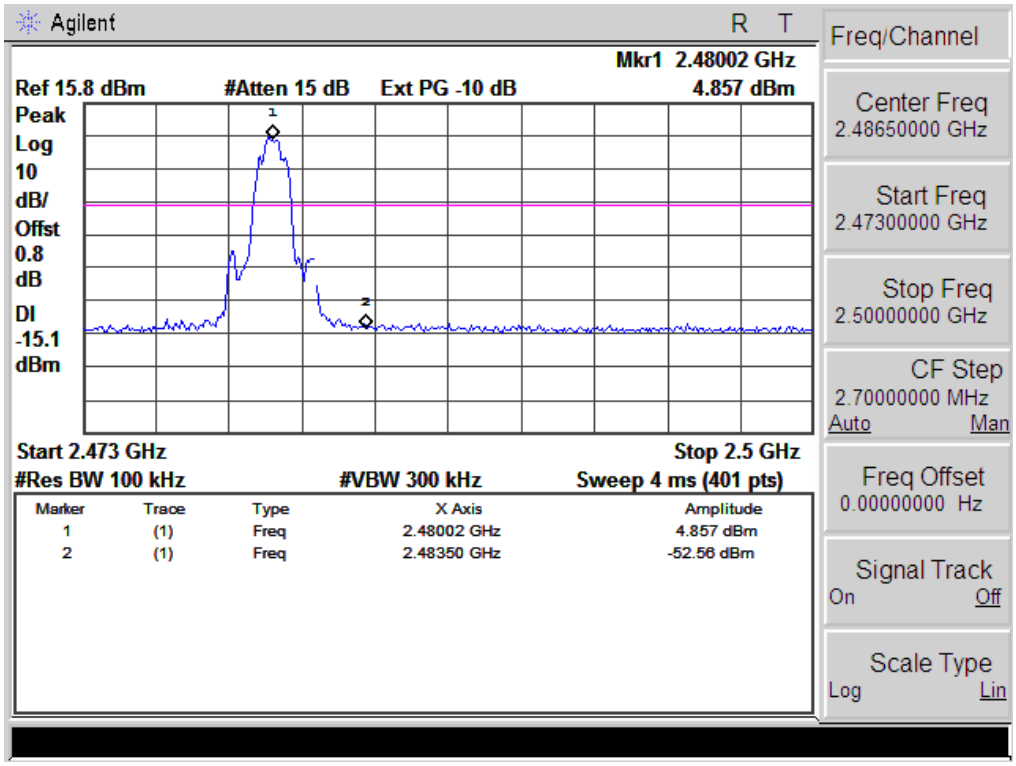


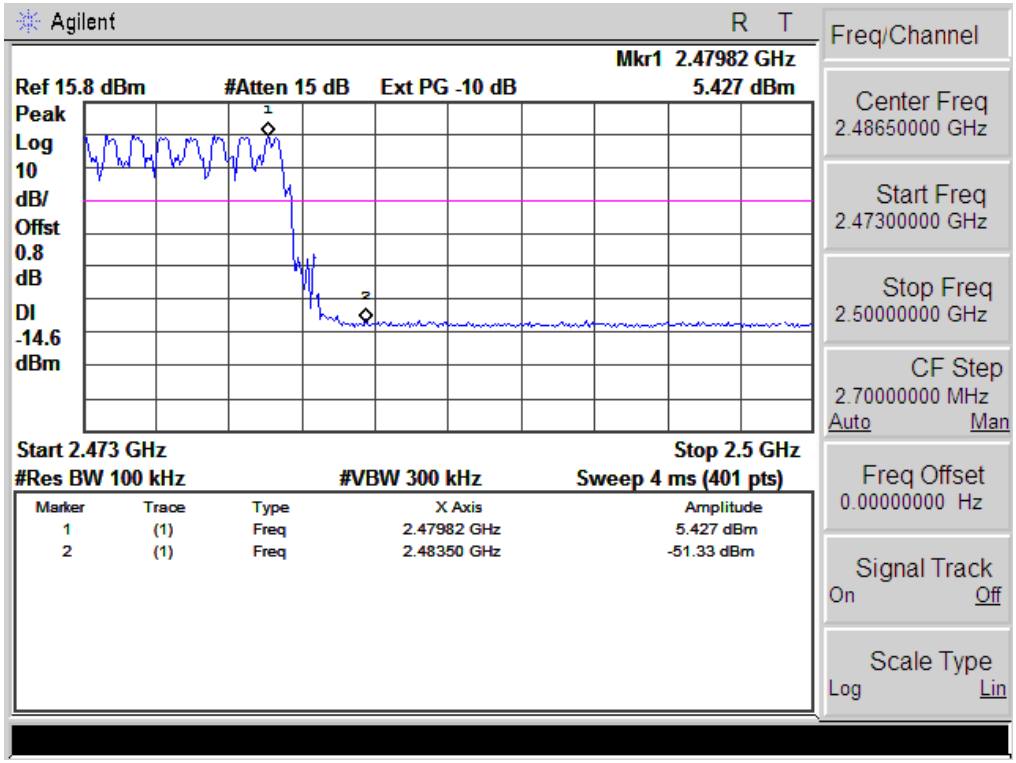
EDR mode (π /4-DQPSK): Band Edge-Left Side



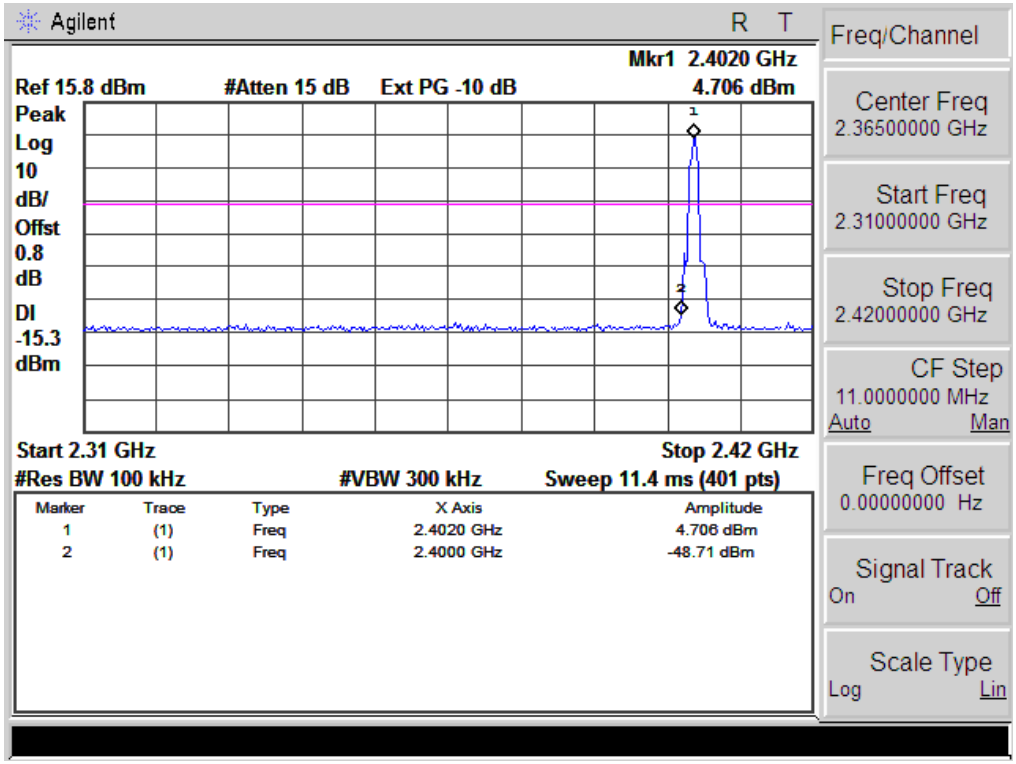


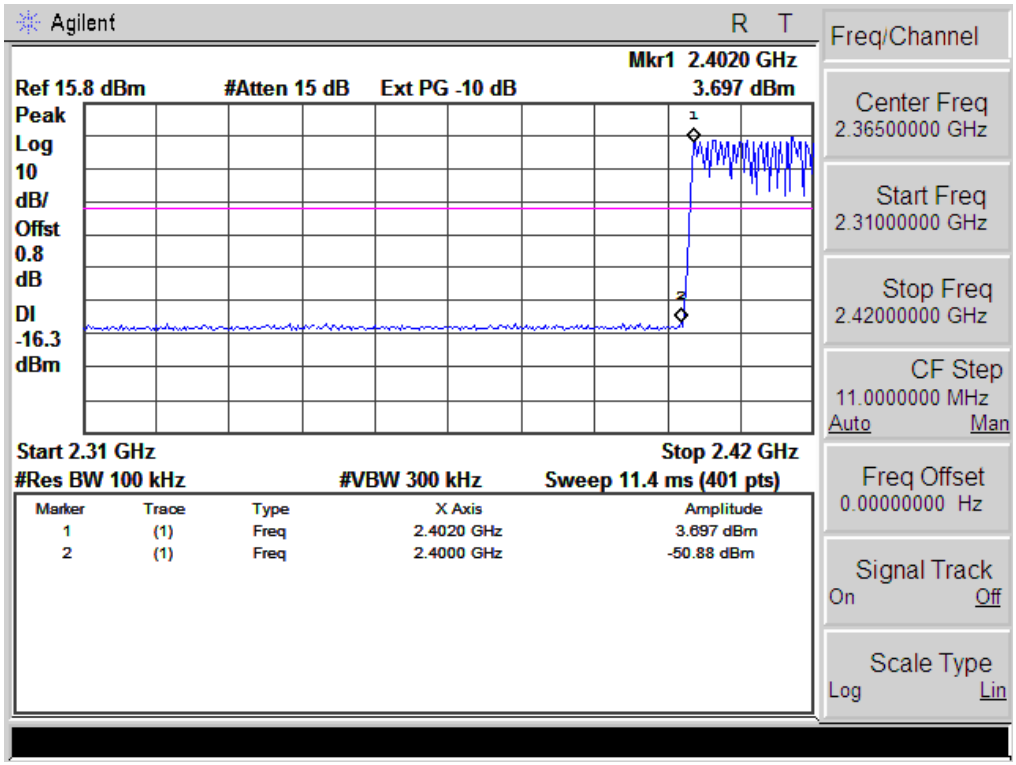
EDR mode (π /4-DQPSK): Band Edge- Right Side



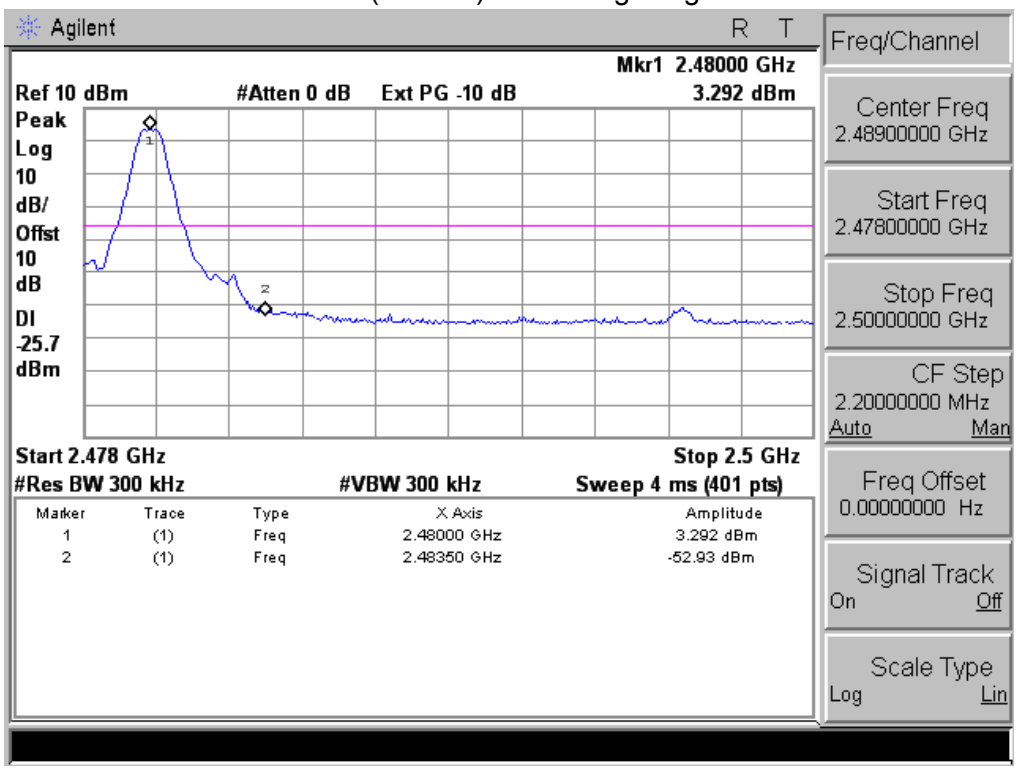


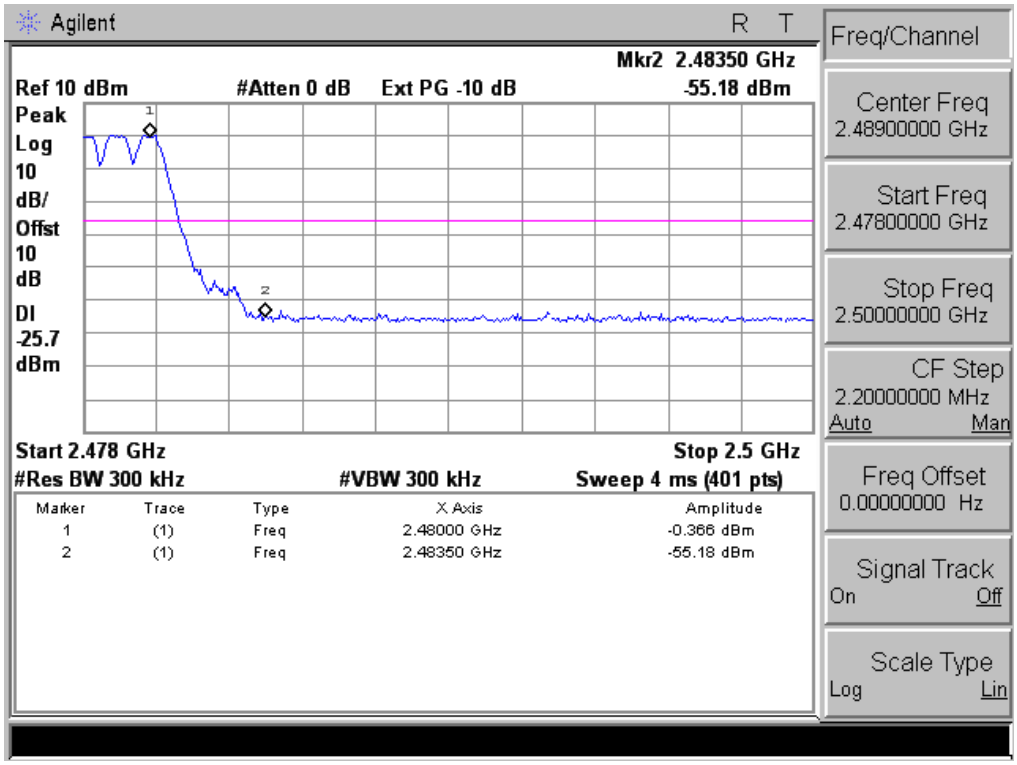
EDR mode(8DPSK): Band Edge-Left Side





EDR mode(8DPSK): Band Edge-Right Side





NOTE: Hopping enabled and disabled have evaluated,and the wortest data was reported

10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

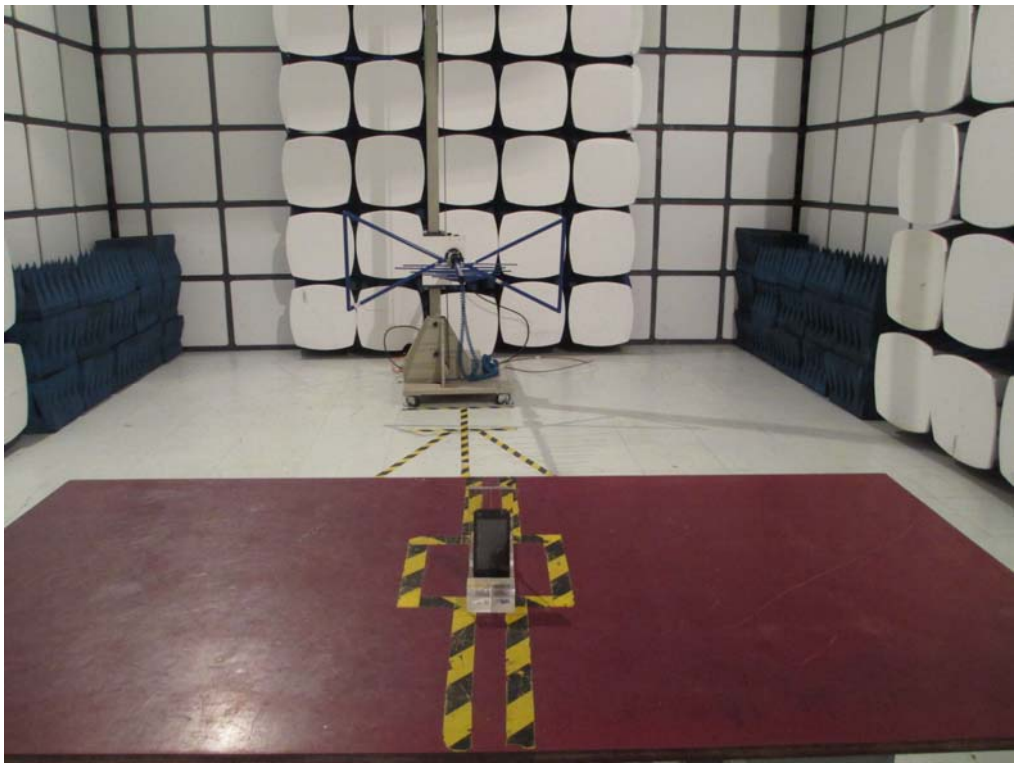
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

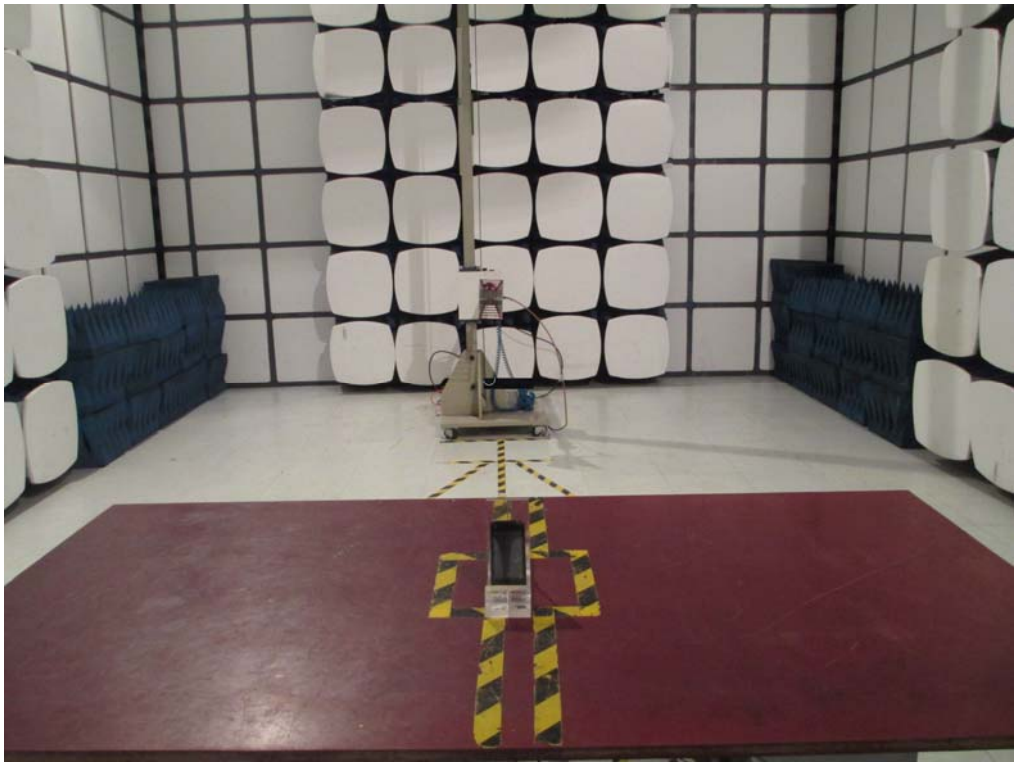
10.2 EUT ANTENNA

The EUT antenna is Built-in Antenna. It comply with the standard requirement.

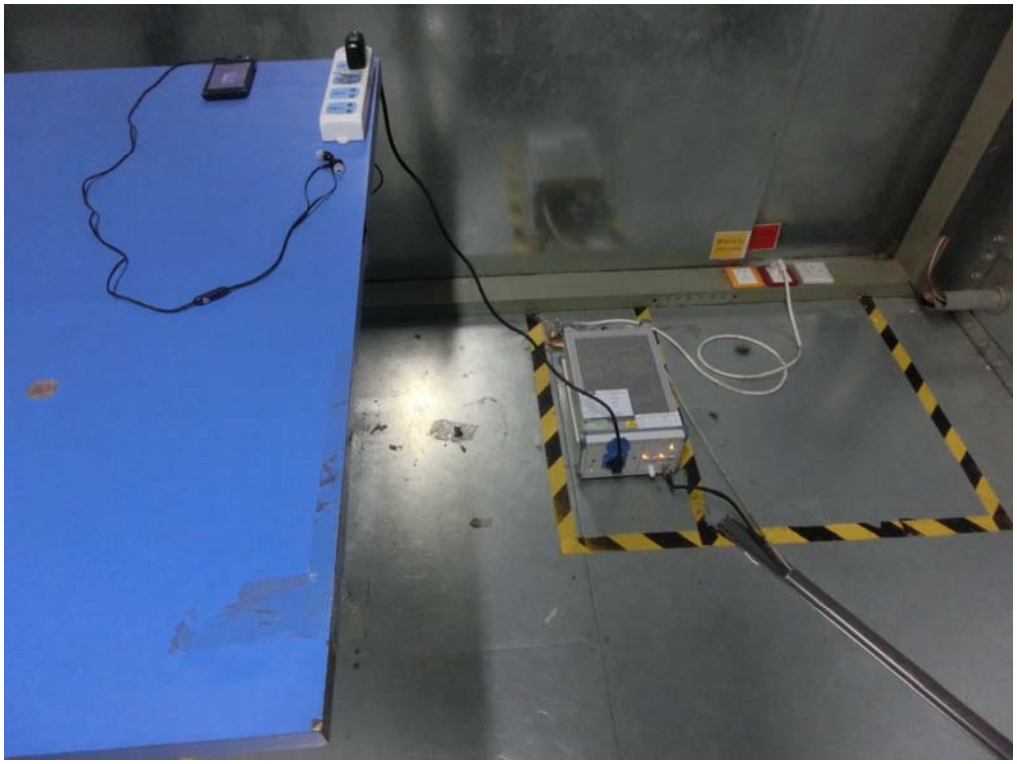
11. EUT TEST PHOTO

Radiated Measurement Photos





Conducted Measurement Photos



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