



FCC Part 15C Test Report

FCC ID:2ABC5AIO-1502

Product Name:	AIO
Trademark:	N/A
Model Name :	AIO-1502
Serial Model:	AIO-1001, AIO-1101, AIO-1301, AIO-1401, AIO-1501, AIO-1805, AIO-1701, AIO-2105, AIO-2401, AIO-2701, AIO-3201, AIO-4301, AIO-5501
Prepared For :	SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Address :	Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Baoan, Shenzhen, China
Prepared By :	Shenzhen BCTC Technology Co., Ltd.
Address :	No.101, Yousong Road, Longhua New District, Shenzhen,China
Test Date:	Jun. 25 – Jul. 09, 2017
Date of Report :	Jul. 09, 2017
Report No.:	BCTC-FY170805718-1E



VERIFICATION OF COMPLIANCE

Applicant's name.....: **SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.**

Address: Bld.2, Yingfeng Industrial Zone, Tantou Community,
Songgang Street, Baoan, Shenzhen, China

Manufacture's Name: **SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.**

Address: Bld.2, Yingfeng Industrial Zone, Tantou Community,
Songgang Street, Baoan, Shenzhen, China

Product description

Product name: AIO

Trademark: N/A

Model Name: AIO-1502

Serial Model: AIO-1001, AIO-1101, AIO-1301, AIO-1401, AIO-1501, AIO-1805,
AIO-1701, AIO-2105, AIO-2401, AIO-2701, AIO-3201, AIO-4301,
AIO-5501

Standards: FCC Part15.249
ANSI C63.10-2013

This device described above has been tested by BCTC, 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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Test Result: **Pass**

Prepared by (Engineer)	Eric Yang	
Reviewer(Supervisor)	Jade Yang	
Approved(Manager)	Carson Zhang	



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.249) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207(a)	Conducted Emission	PASS	
15.209(a)&&15.249(a) &15.249(c)&15.205(a)	Fundamental &Radiated Spurious Emission Measurement	PASS	
15.215(c)	Bandwidth	PASS	
15.249(d)	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

1.1 TEST FACILITY

Shenzhen BCTC Technology Co., Ltd.

Add.:No.101,Yousong Road,Longhua New District, Shenzhen,China

FCC Registration No.:187086

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, 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	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AIO											
Trade Name	N/A											
Model Name	AIO-1502											
Serial Model	AIO-1001, AIO-1101, AIO-1301, AIO-1401, AIO-1501, AIO-1805, AIO-1701, AIO-2105, AIO-2401, AIO-2701, AIO-3201, AIO-4301, AIO-5501											
Model Difference	The product is different for model number and outlook color.											
Product Description	<table><tr><td>Operation Frequency:</td><td>2402~2480 MHz</td></tr><tr><td>Modulation Type:</td><td>GFSK, $\pi/4$ DPSK,8DPSK</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></table>		Operation Frequency:	2402~2480 MHz	Modulation Type:	GFSK, $\pi/4$ DPSK,8DPSK	Bit Rate of Transmitter	1Mbps/2Mbps/3Mbps	Number Of Channel	79 CH	Antenna Designation:	Please see Note 3.
	Operation Frequency:	2402~2480 MHz										
	Modulation Type:	GFSK, $\pi/4$ DPSK,8DPSK										
	Bit Rate of Transmitter	1Mbps/2Mbps/3Mbps										
	Number Of Channel	79 CH										
	Antenna Designation:	Please see Note 3.										
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.												
Channel List	Please refer to the Note 2.											
Power supply	DC 12V from adapter											
Connecting I/O Port(s)	Please refer to the User's Manual											
hardware version	-											
Software version	-											
Adapter	Model:FJ-SW1203000 I/P:100~240V 50/60Hz 1.5A max O/P:DC 12V 3000mA											

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	2.1	BT & WIFI antenna



2.2 DESCRIPTION OF TEST MODES

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

For All Mode	Description	Modulation Type
Mode 1	CH00	GFSK, $\pi/4$ DPSK, 8DPSK
Mode 2	CH39	
Mode 3	CH78	
Mode 4	Link mode	

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test

2.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

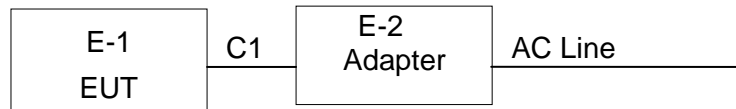
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

Frequency	2402 MHz	2441 MHz	2480 MHz
Channel	Low	Middle	High

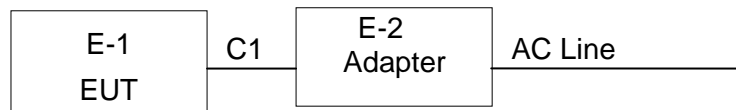


2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

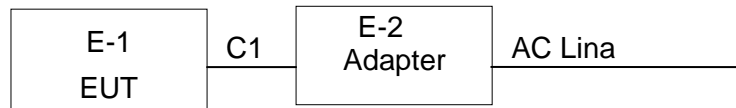
Conducted Emission/



Radiated Spurious Emission Test



RF test setup:





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	AIO	N/A	AIO-1502	N/A	EUT
E-2	Adapter	N/A	FJ-SW1203000	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	0.8M	DC cable unshielded

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	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4407B	MY45108040	2017.08.27	2018.08.26
2	Test Receiver (9kHz-7GHz)	R&S	ESPI	101318	2017.08.27	2018.08.26
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB 9168	VULB91 68-438	2017.08.27	2018.08.26
4	Horn Antenna (1GHz-18GHz)	SCHWARZBECK	BBHA9120D	1201	2017.09.03	2018.09.03
5	Horn Antenna (14GHz-40GHz)	SCHWARZBECK	BBHA 9170	9170-181	2017.09.03	2018.09.03
6	Amplifier (9KHz-6GHz)	SCHWARZBECK	BBV9744	9744-0037	2017.08.27	2018.08.26
7	Amplifier (1GHz-18GHz)	SCHWARZBECK	BBV9718	9718-309	2017.08.27	2018.08.26
8	Amplifier (18GHz-40GHz)	SCHWARZBECK	BBV 9721	9721-205	2017.08.27	2018.08.26
9	Loop Antenna (9KHz-30MHz)	SCHWARZBECK	FMZB1519B	00014	2017.09.03	2018.09.03
10	RF cables1 (9kHz-1GHz)	R&S	R203	R20X	2017.08.27	2018.08.26
11	RF cables2 (1GHz-40GHz)	R&S	R204	R21X	2017.08.27	2018.08.26
12	Antenna connector	Florida RF Labs	N/A	RF 01#	2017.08.27	2018.08.26
13	Power Metter	ANRITSU	ML2487A	6K00001568	2017.08.27	2018.08.26
14	Power Sensor (AV)	ANRITSU	ML2491A	030989	2017.08.27	2018.08.26
15	Signal Analyzer 9kHz-26.5GHz	Agilent	N9010A	MY48030494	2017.08.27	2018.08.26
16	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	2017.08.27	2018.08.26
17	D.C. Power Supply	LongWei	PS-305D	010964729	2017.08.27	2018.08.26

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESCI	1166.5950K03-1 01165-ha	2017.08.27	2018.08.26
2	LISN	SCHWARZBECK	NSLK8127	8127739	2017.08.27	2018.08.26
3	LISN	R&S	NSLK8126	8126487	2017.08.27	2018.08.26
4	RF cables	R&S	R204	R20X	2017.08.27	2018.08.26
5	Attenuator	R&S	ESH3-Z2	143206	2017.08.27	2018.08.26



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quas -peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	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

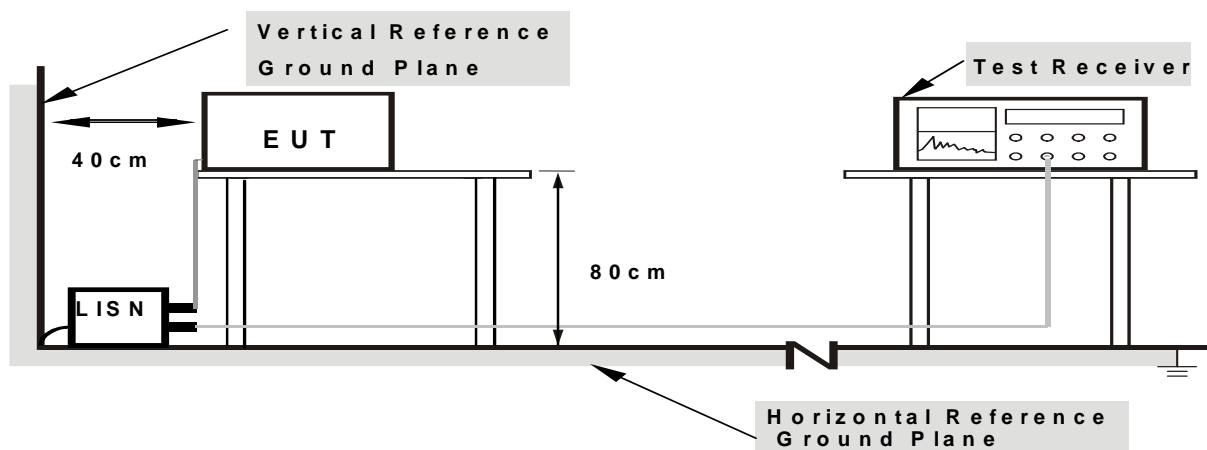
3.1.2 TEST PROCEDURE

- 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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 cm from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

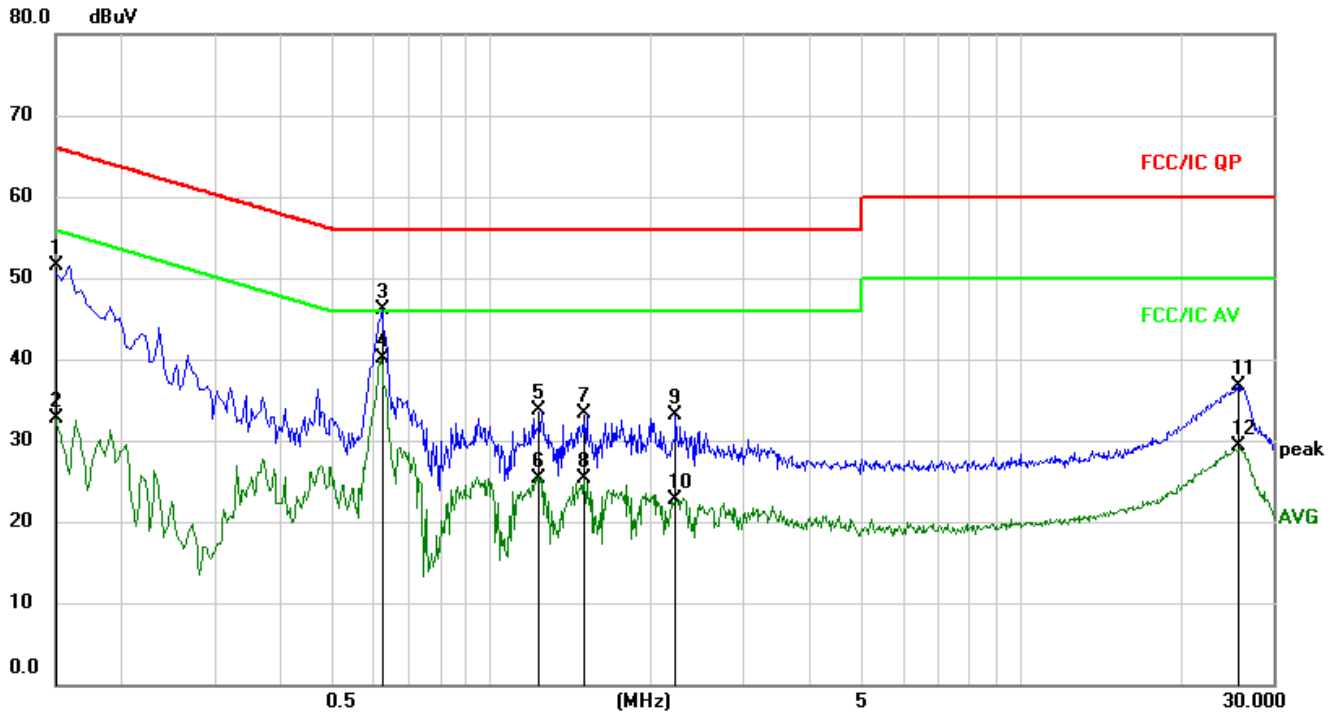
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.



3.1.6 TEST RESULTS

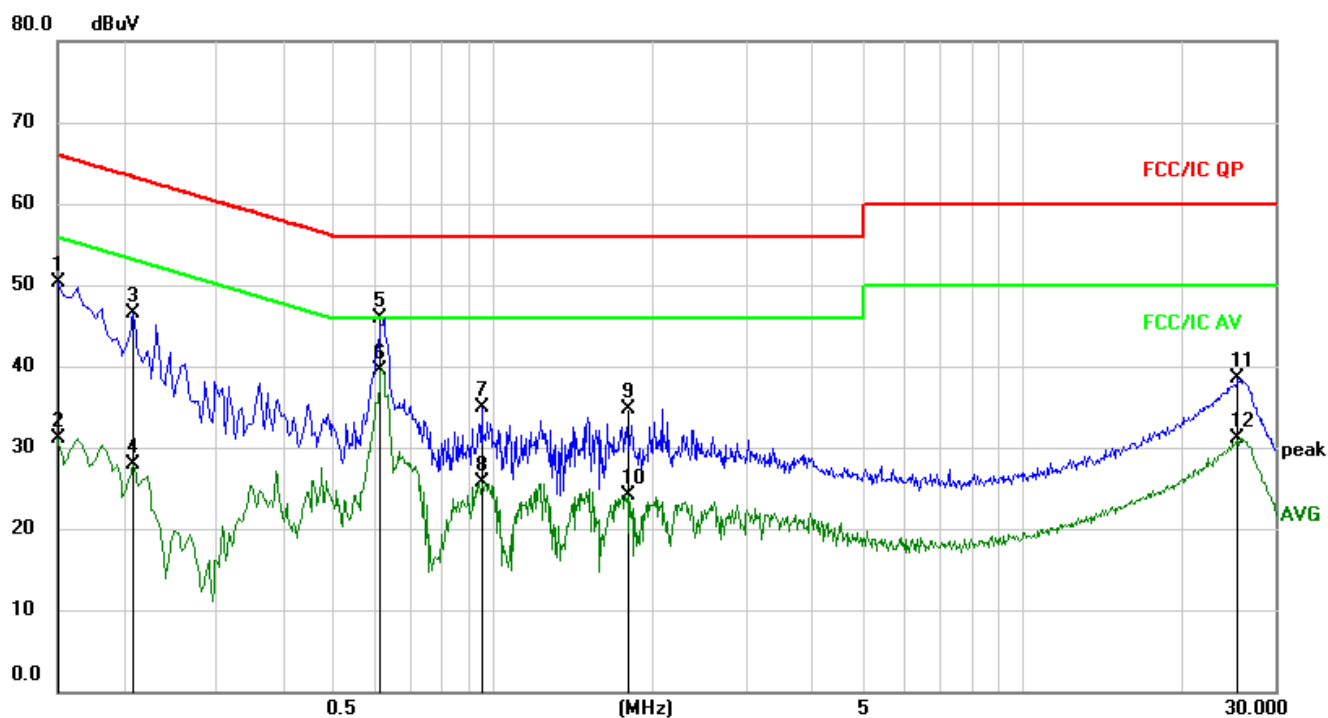
Temperature :	25 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC120V/60Hz	Test Mode :	Mode4



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	41.80	9.67	51.47	66.00	-14.53	QP	
2		0.1500	22.94	9.67	32.61	56.00	-23.39	AVG	
3		0.6180	36.40	9.68	46.08	56.00	-9.92	QP	
4	*	0.6180	30.41	9.68	40.09	46.00	-5.91	AVG	
5		1.2255	24.09	9.69	33.78	56.00	-22.22	QP	
6		1.2255	15.71	9.69	25.40	46.00	-20.60	AVG	
7		1.5000	23.60	9.70	33.30	56.00	-22.70	QP	
8		1.5000	15.59	9.70	25.29	46.00	-20.71	AVG	
9		2.2335	23.34	9.72	33.06	56.00	-22.94	QP	
10		2.2335	13.08	9.72	22.80	46.00	-23.20	AVG	
11		25.7460	26.85	9.88	36.73	60.00	-23.27	QP	
12		25.7460	19.49	9.88	29.37	50.00	-20.63	AVG	



Temperature :	25 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC120V/60Hz	Test Mode :	Mode4



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1500	40.58	9.67	50.25	66.00	-15.75	QP	
2	0.1500	21.44	9.67	31.11	56.00	-24.89	AVG	
3	0.2085	36.88	9.65	46.53	63.26	-16.73	QP	
4	0.2085	18.35	9.65	28.00	53.26	-25.26	AVG	
5	0.6134	36.22	9.68	45.90	56.00	-10.10	QP	
6 *	0.6134	29.91	9.68	39.59	46.00	-6.41	AVG	
7	0.9510	25.21	9.69	34.90	56.00	-21.10	QP	
8	0.9510	15.92	9.69	25.61	46.00	-20.39	AVG	
9	1.7925	25.04	9.71	34.75	56.00	-21.25	QP	
10	1.7925	14.41	9.71	24.12	46.00	-21.88	AVG	
11	25.4670	28.65	9.88	38.53	60.00	-21.47	QP	
12	25.4670	21.18	9.88	31.06	50.00	-18.94	AVG	



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)	Limit (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).

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	5 th 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

- The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 and 1.5 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; above 1GHz, the height was 1.5m, 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

- For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note:

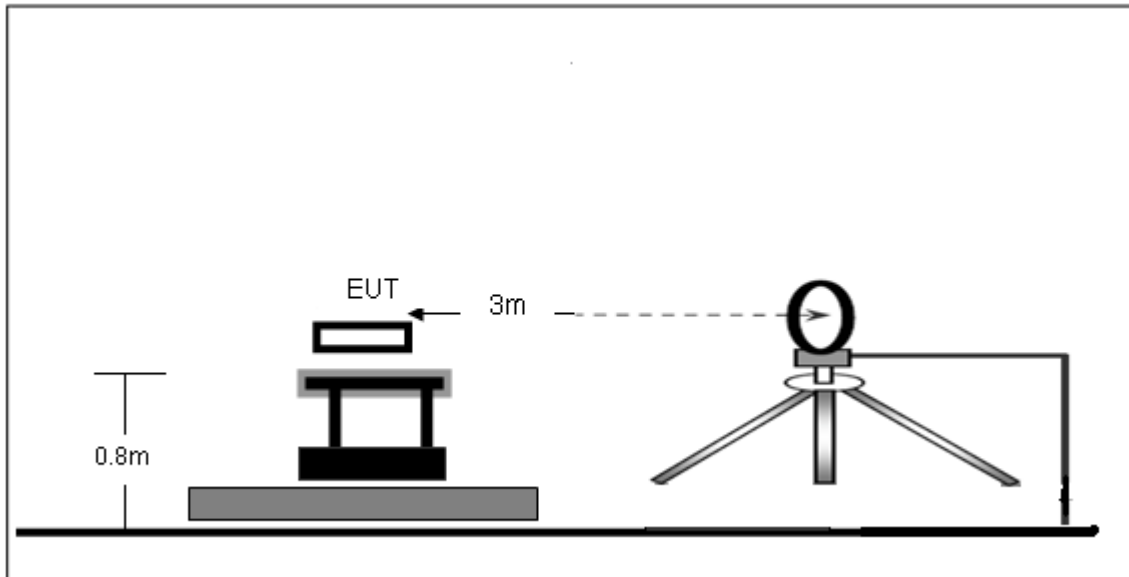
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

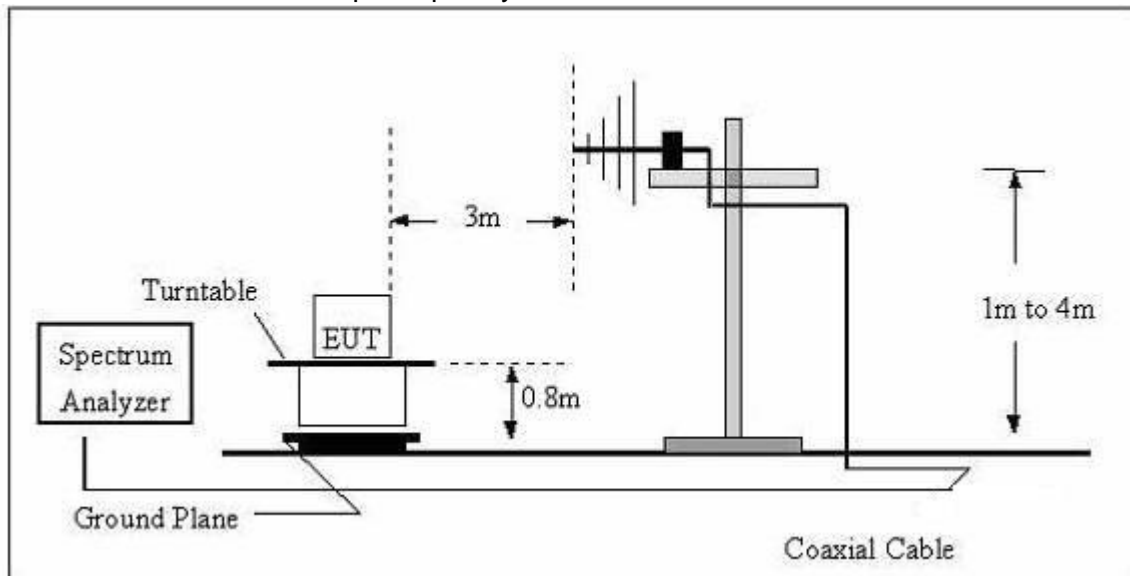
No deviation

3.2.4 TEST SETUP

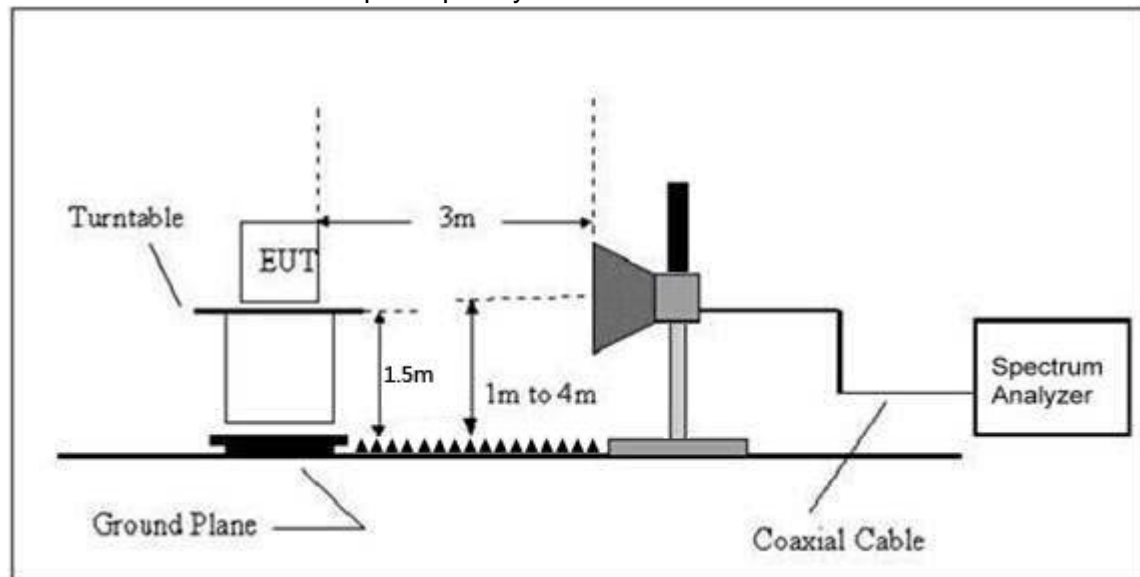
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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

Radiated Spurious Emission (Below 30MHz)

Temperature :	25 °C	Relative Humidity :	55%
Pressure :	1010 hPa	Polarization :	---
Test Voltage :	DC 12V from adapter		
Test Mode :	Mode 4		

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

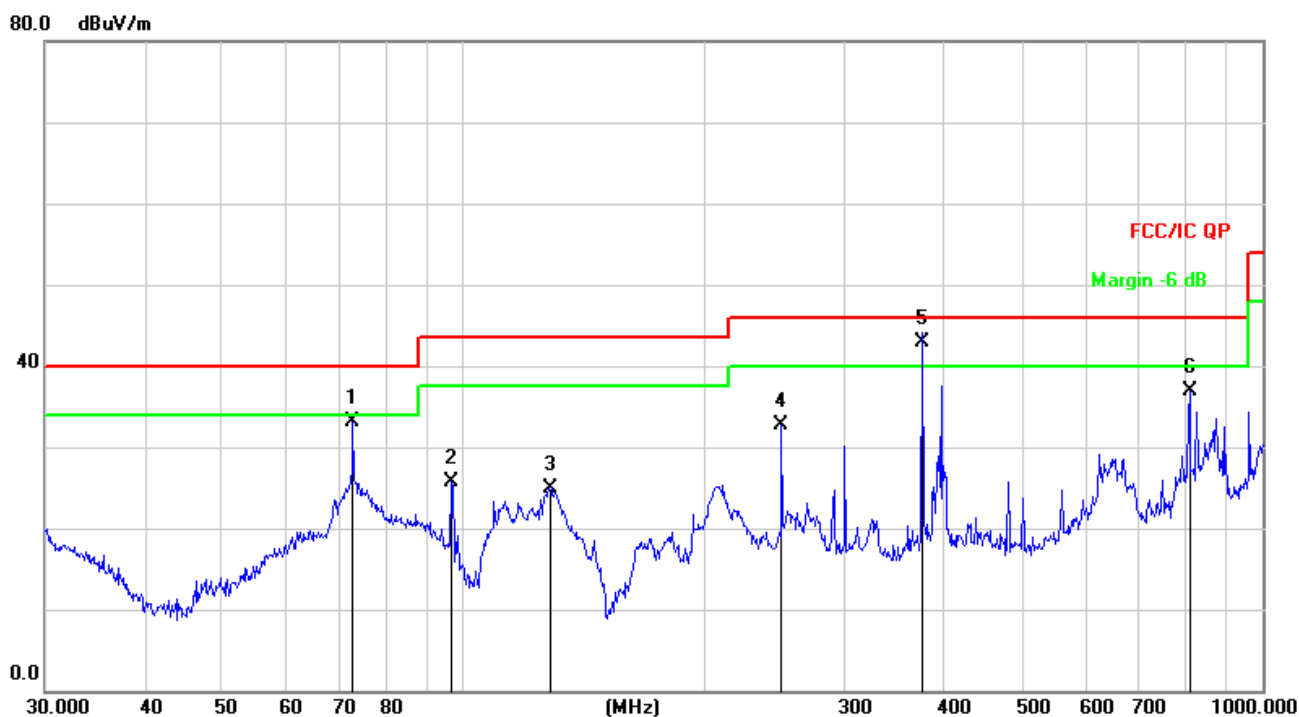
Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

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



Radiated Spurious Emission (Between 30MHz – 1GHz)

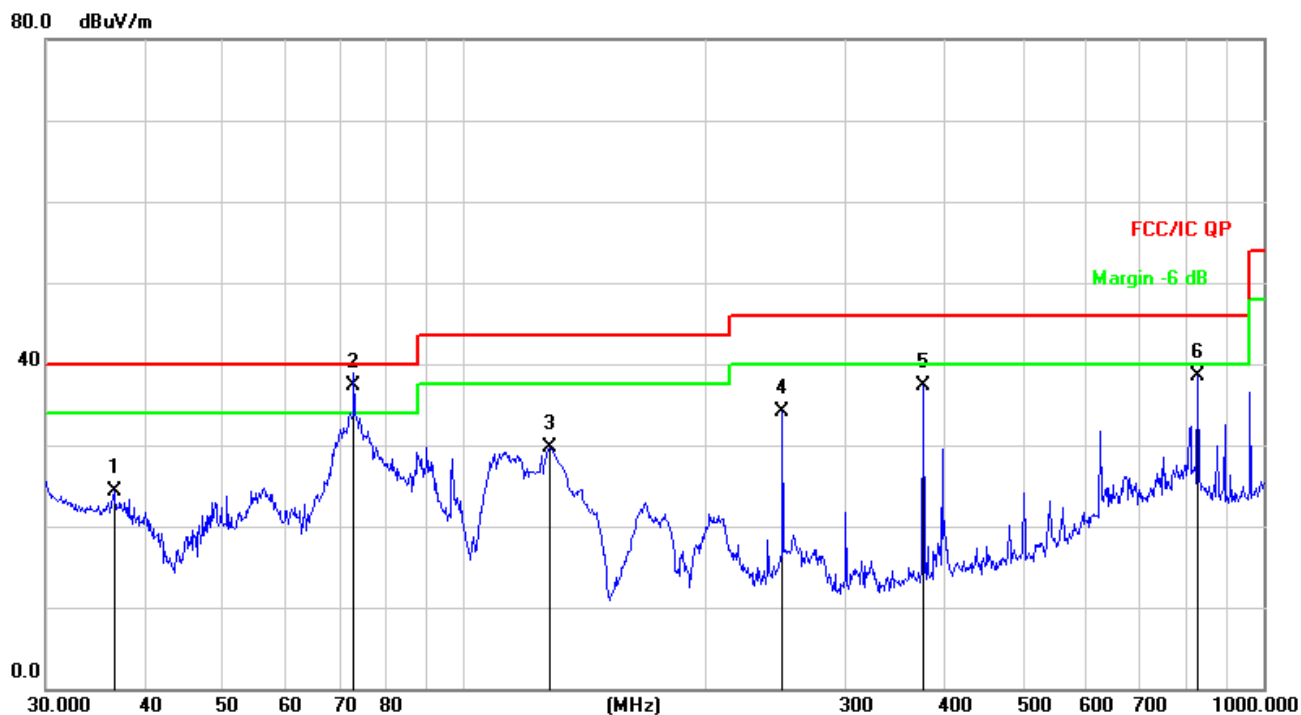
Temperature :	25 °C	Relative Humidity :	55%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 12V from adapter		
Test Mode : (Worst)	Mode 4		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		72.8466	53.04	-19.92	33.12	40.00	-6.88	QP
2		96.7749	42.69	-17.06	25.63	43.50	-17.87	QP
3		128.5630	44.42	-19.42	25.00	43.50	-18.50	QP
4		250.3012	46.54	-13.75	32.79	46.00	-13.21	QP
5	*	375.9385	53.05	-10.15	42.90	46.00	-3.10	QP
6		810.2654	37.90	-1.02	36.88	46.00	-9.12	QP



Temperature :	25 °C	Relative Humidity :	55%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 12V from adapter		
Test Mode : (Worst)	Mode 4		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		36.5092	41.11	-16.85	24.26	40.00	-15.74	QP
2	*	72.8666	57.16	-19.93	37.23	40.00	-2.77	QP
3		128.1130	49.17	-19.39	29.78	43.50	-13.72	QP
4		250.3012	47.82	-13.75	34.07	46.00	-11.93	QP
5		375.9385	47.37	-10.15	37.22	46.00	-8.78	QP
6		827.4934	39.26	-0.75	38.51	46.00	-7.49	QP


Radiated Spurious Emission (1GHz to 10th harmonics)

GFSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel 2402MHz									
V	2402.00	106.59	38.11	7.44	20.36	96.28	114	-17.72	PK
V	2402.00	90.36	38.11	7.44	20.36	80.05	94	-13.95	AV
V	4804.00	55.71	38.65	7.80	23.61	48.47	74	-25.53	PK
V	4804.00	43.62	38.65	7.80	23.61	36.38	54	-17.62	AV
V	16132.00	44.61	38.75	10.36	26.57	42.79	74	-31.21	PK
H	2402.00	109.44	38.11	7.44	20.36	99.13	114	-14.87	PK
H	2402.00	88.60	38.11	7.44	20.36	78.29	94	-15.71	AV
H	4804.00	56.34	38.65	7.80	23.61	49.10	74	-24.90	PK
H	4804.00	43.23	38.65	7.80	23.61	35.99	54	-18.01	AV
H	16132.00	46.79	38.75	10.36	26.57	44.97	74	-29.03	PK
Middle Channel 2441MHz									
V	2441.00	105.17	38.11	7.44	20.36	94.86	114	-19.14	PK
V	2441.00	89.53	38.11	7.44	20.36	79.22	94	-14.78	AV
V	4882.00	54.10	38.65	7.80	23.61	46.86	74	-27.14	PK
V	4882.00	42.71	38.65	7.80	23.61	35.47	54	-18.53	AV
V	16132.00	43.17	38.75	10.36	26.57	41.35	74	-32.65	PK
H	2441.00	108.36	38.11	7.44	20.36	98.05	114	-15.95	PK
H	2441.00	86.40	38.11	7.44	20.36	76.09	94	-17.91	AV
H	4882.00	55.58	38.65	7.80	23.61	48.34	74	-25.66	PK
H	4882.00	41.74	38.65	7.80	23.61	34.50	54	-19.50	AV
H	16132.00	44.08	38.75	10.36	26.57	42.26	74	-31.74	PK
High Channel 2480MHz									
V	2480.00	106.71	38.17	7.47	20.51	96.52	114	-17.48	PK
V	2480.00	89.79	38.17	7.47	20.51	79.60	94	-14.40	AV
V	4960.00	57.18	38.69	7.83	23.83	50.15	74	-23.85	PK
V	4960.00	45.44	38.69	7.83	23.83	38.41	54	-15.59	AV
V	16132.00	48.12	38.75	10.36	26.57	46.30	74	-27.70	PK
H	2480.00	109.16	38.17	7.47	20.51	98.97	114	-15.03	PK
H	2480.00	87.25	38.17	7.47	20.51	77.06	94	-16.94	AV
H	4960.00	58.27	38.69	7.83	23.83	51.24	74	-22.76	PK
H	4960.00	43.69	38.69	7.83	23.83	36.66	54	-17.34	AV
H	16132.00	48.02	38.75	10.36	26.57	46.20	74	-27.80	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



PI/4 DPSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel 2402MHz									
V	2402.00	107.96	38.06	7.42	20.15	97.47	114	-16.53	PK
V	2402.00	86.80	38.06	7.42	20.15	76.31	94	-17.69	AV
V	4804.00	50.85	38.53	7.78	23.25	43.35	74	-30.65	PK
V	4804.00	40.76	38.53	7.78	23.25	33.26	54	-20.74	AV
V	16132.00	46.89	38.75	10.36	26.57	45.07	74	-28.93	PK
H	2402.00	108.66	38.06	7.42	20.15	98.17	114	-15.83	PK
H	2402.00	86.13	38.06	7.42	20.15	75.64	94	-18.36	AV
H	4804.00	53.54	38.53	7.78	23.25	46.04	74	-27.96	PK
H	4804.00	42.47	38.53	7.78	23.25	34.97	54	-19.03	AV
H	16132.00	45.56	38.75	10.36	26.57	43.74	74	-30.26	PK
Middle Channel 2441MHz									
V	2441.00	107.01	38.11	7.44	20.36	96.70	114	-17.30	PK
V	2441.00	92.69	38.11	7.44	20.36	82.38	94	-11.62	AV
V	4882.00	54.20	38.65	7.80	23.61	46.96	74	-27.04	PK
V	4882.00	42.34	38.65	7.80	23.61	35.10	54	-18.90	AV
V	16132.00	44.62	38.75	10.36	26.57	42.80	74	-31.20	PK
H	2441.00	108.53	38.11	7.44	20.36	98.22	114	-15.78	PK
H	2441.00	86.87	38.11	7.44	20.36	76.56	94	-17.44	AV
H	4882.00	55.51	38.65	7.80	23.61	48.27	74	-25.73	PK
H	4882.00	43.88	38.65	7.80	23.61	36.64	54	-17.36	AV
H	16132.00	46.54	38.75	10.36	26.57	44.72	74	-29.28	PK
High Channel 2480MHz									
V	2480.00	107.07	38.17	7.47	20.51	96.88	114	-17.12	PK
V	2480.00	85.30	38.17	7.47	20.51	75.11	94	-18.89	AV
V	4960.00	53.18	38.69	7.83	23.83	46.15	74	-27.85	PK
V	4960.00	42.70	38.69	7.83	23.83	35.67	54	-18.33	AV
V	16132.00	47.66	38.75	10.36	26.57	45.84	74	-28.16	PK
H	2480.00	105.48	38.17	7.47	20.51	95.29	114	-18.71	PK
H	2480.00	86.55	38.17	7.47	20.51	76.36	94	-17.64	AV
H	4960.00	53.91	38.69	7.83	23.83	46.88	74	-27.12	PK
H	4960.00	41.36	38.69	7.83	23.83	34.33	54	-19.67	AV
H	16132.00	47.15	38.75	10.36	26.57	45.33	74	-28.67	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



8DPSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel 2402MHz									
V	2402.00	107.25	38.06	7.42	20.15	96.76	114	-17.24	PK
V	2402.00	91.14	38.06	7.42	20.15	80.65	94	-13.35	AV
V	4804.00	57.40	38.53	7.78	23.25	49.90	74	-24.10	PK
V	4804.00	44.03	38.53	7.78	23.25	36.53	54	-17.47	AV
V	16132.00	47.82	38.75	10.36	26.57	46.00	74	-28.00	PK
H	2402.00	108.41	38.06	7.42	20.15	97.92	114	-16.08	PK
H	2402.00	92.03	38.06	7.42	20.15	81.54	94	-12.46	AV
H	4804.00	55.90	38.53	7.78	23.25	48.40	74	-25.60	PK
H	4804.00	42.30	38.53	7.78	23.25	34.80	54	-19.20	AV
H	16132.00	46.35	38.75	10.36	26.57	44.53	74	-29.47	PK
Middle Channel 2441MHz									
V	2441.00	107.58	38.11	7.44	20.36	97.27	114	-16.73	PK
V	2441.00	90.44	38.11	7.44	20.36	80.13	94	-13.87	AV
V	4882.00	54.95	38.65	7.80	23.61	47.71	74	-26.29	PK
V	4882.00	41.42	38.65	7.80	23.61	34.18	54	-19.82	AV
V	16132.00	45.56	38.75	10.36	26.57	43.74	74	-30.26	PK
H	2441.00	107.87	38.11	7.44	20.36	97.56	114	-16.44	PK
H	2441.00	89.31	38.11	7.44	20.36	79.00	94	-15.00	AV
H	4882.00	55.95	38.65	7.80	23.61	48.71	74	-25.29	PK
H	4882.00	43.11	38.65	7.80	23.61	35.87	54	-18.13	AV
H	16132.00	45.73	38.75	10.36	26.57	43.91	74	-30.09	PK
High Channel 2480MHz									
V	2480.00	106.35	38.17	7.47	20.51	96.16	114	-17.84	PK
V	2480.00	87.56	38.17	7.47	20.51	77.37	94	-16.63	AV
V	4960.00	57.01	38.69	7.83	23.83	49.98	74	-24.02	PK
V	4960.00	43.20	38.69	7.83	23.83	36.17	54	-17.83	AV
V	16132.00	45.47	38.75	10.36	26.57	43.65	74	-30.35	PK
H	2480.00	106.68	38.17	7.47	20.51	96.49	114	-17.51	PK
H	2480.00	85.07	38.17	7.47	20.51	74.88	94	-19.12	AV
H	4960.00	54.97	38.69	7.83	23.83	47.94	74	-26.06	PK
H	4960.00	43.70	38.69	7.83	23.83	36.67	54	-17.33	AV
H	16132.00	47.19	38.75	10.36	26.57	45.37	74	-28.63	PK

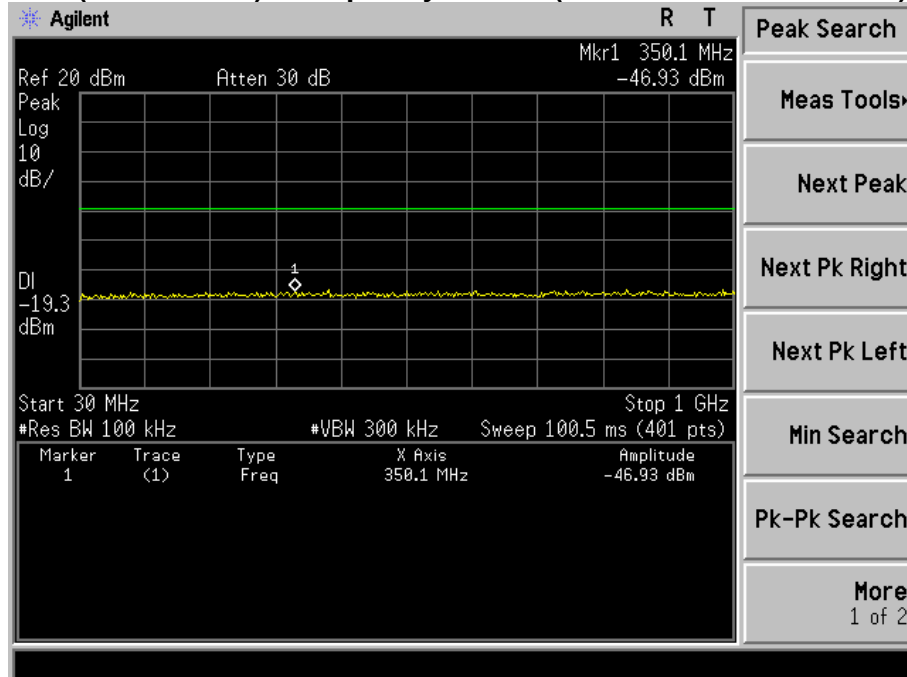
Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

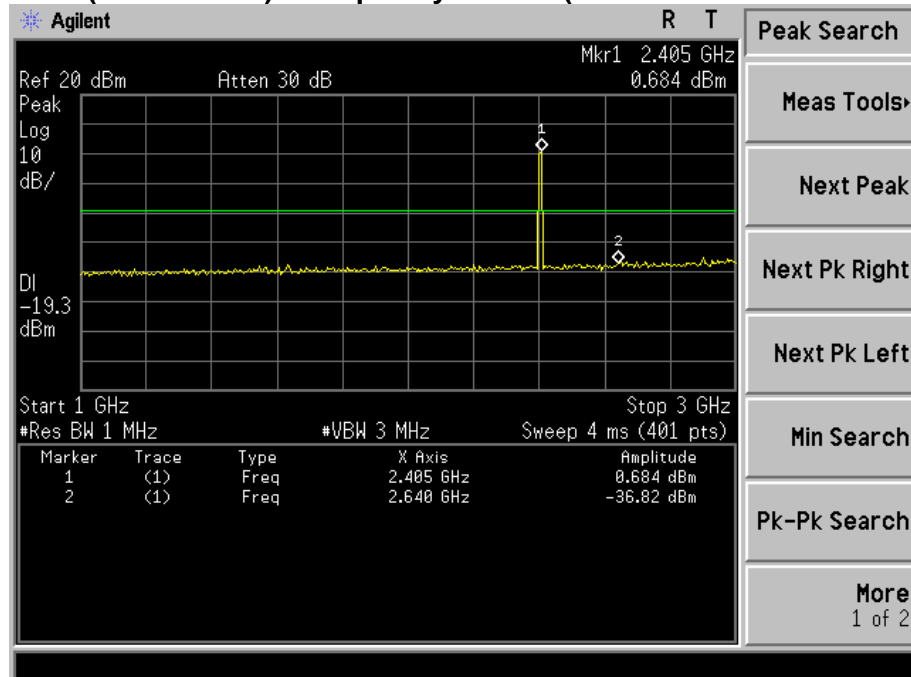


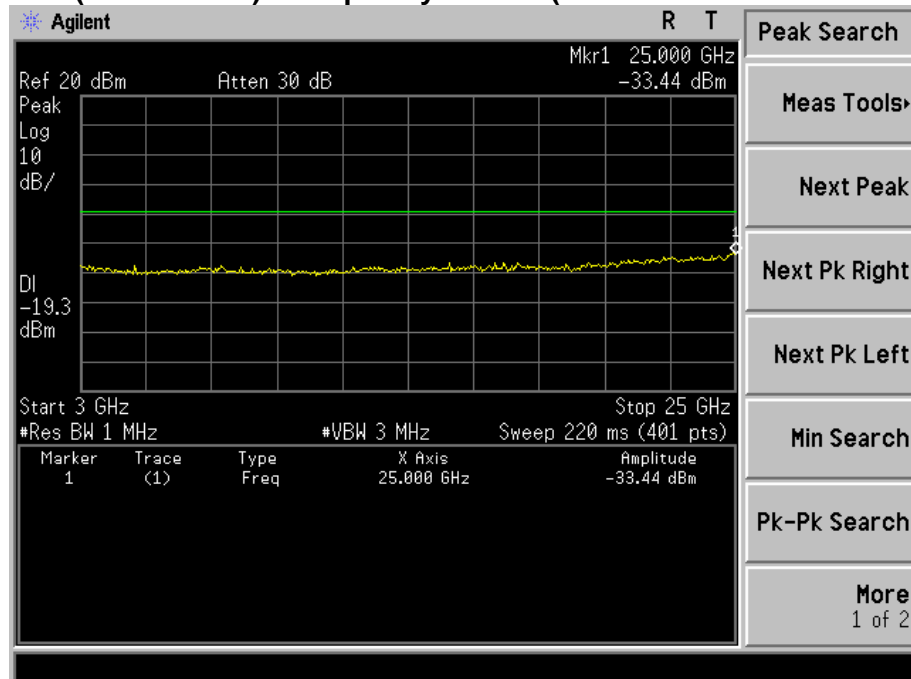
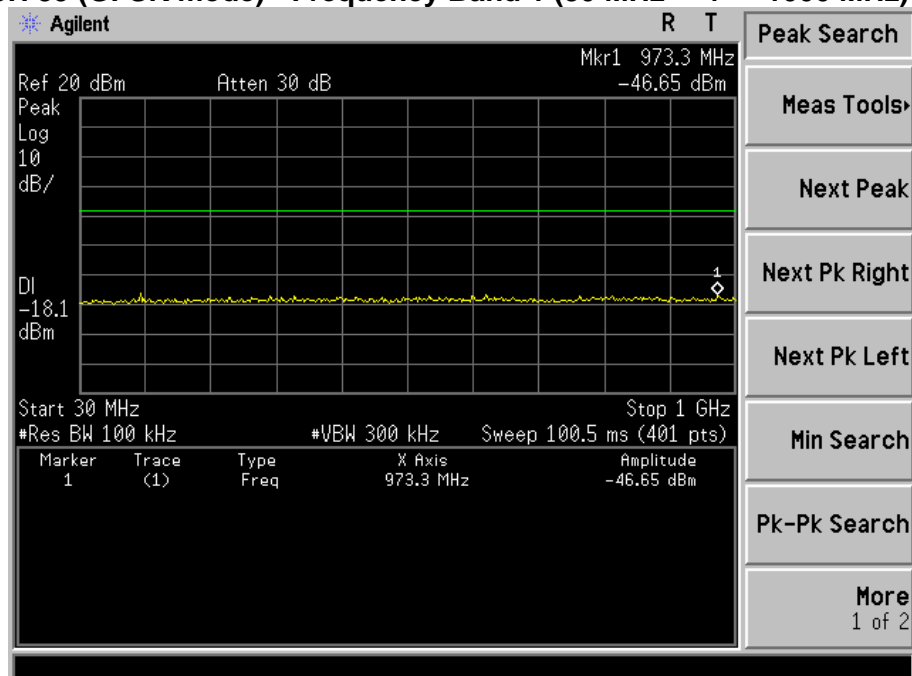
Operation Mode: GFSK mode(CH00, CH39, CH78)

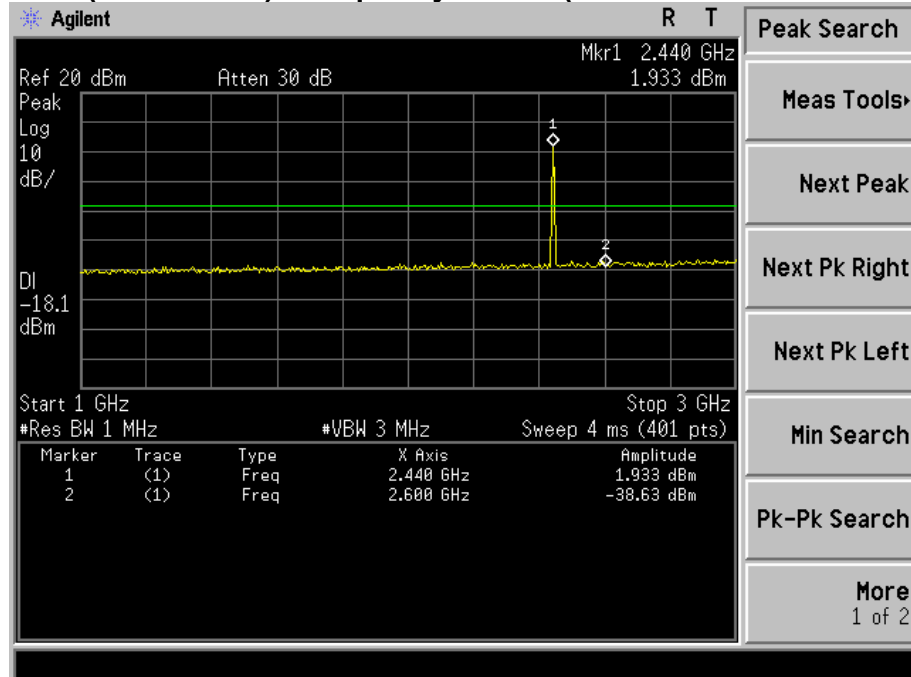
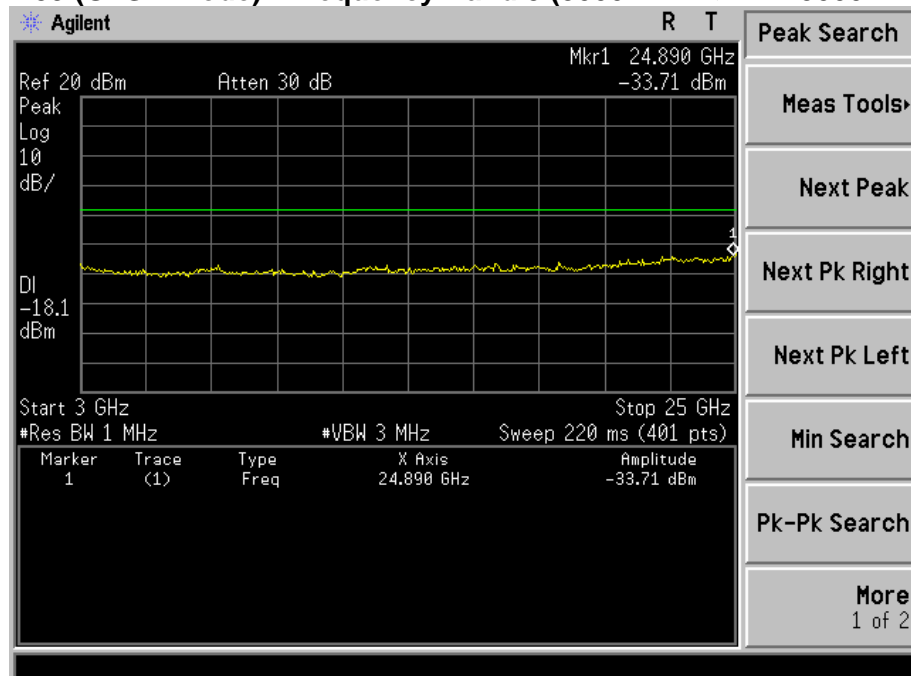
CH 00 (GFSK mode) - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)

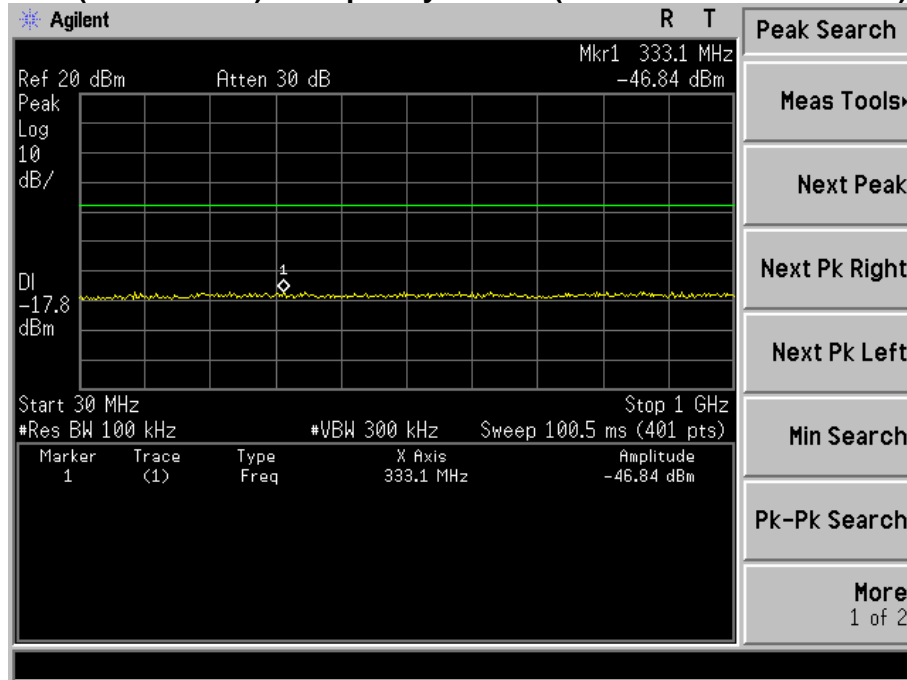
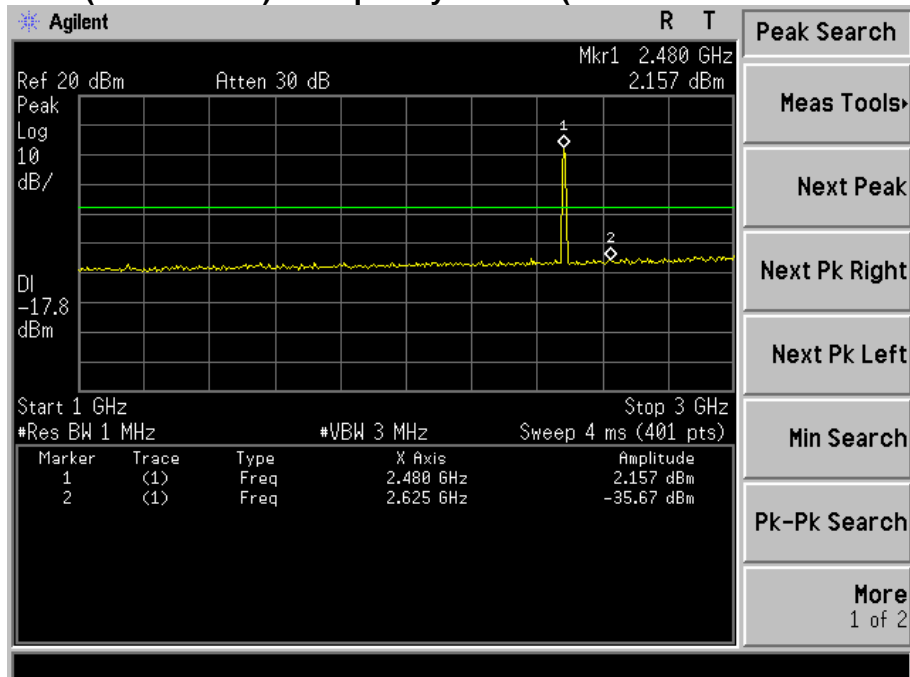


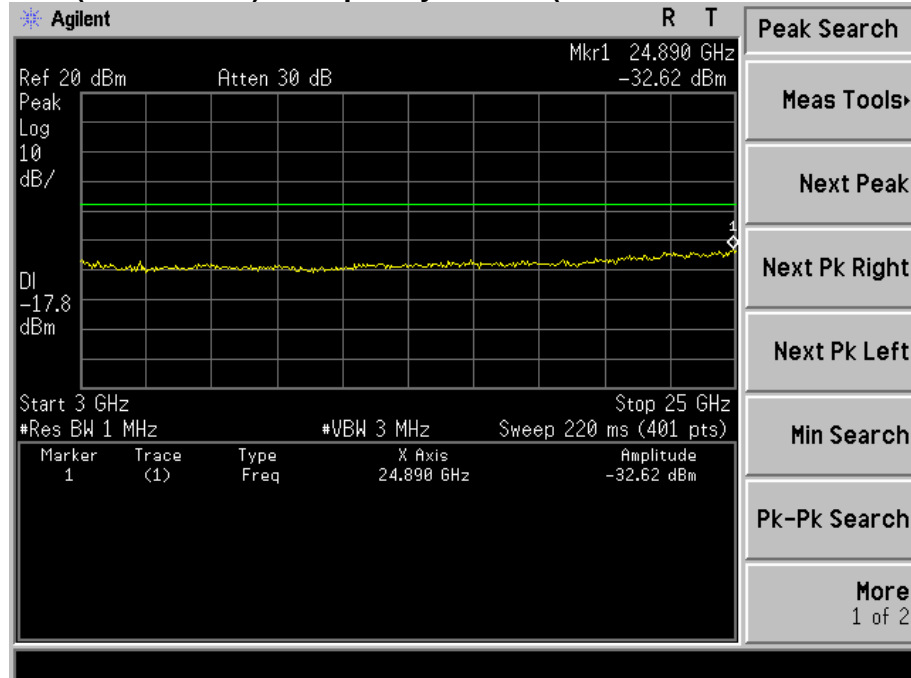
CH 00 (GFSK mode) - Frequency Band 2 ($1000 \text{ MHz} < f \leq 3000 \text{ MHz}$)

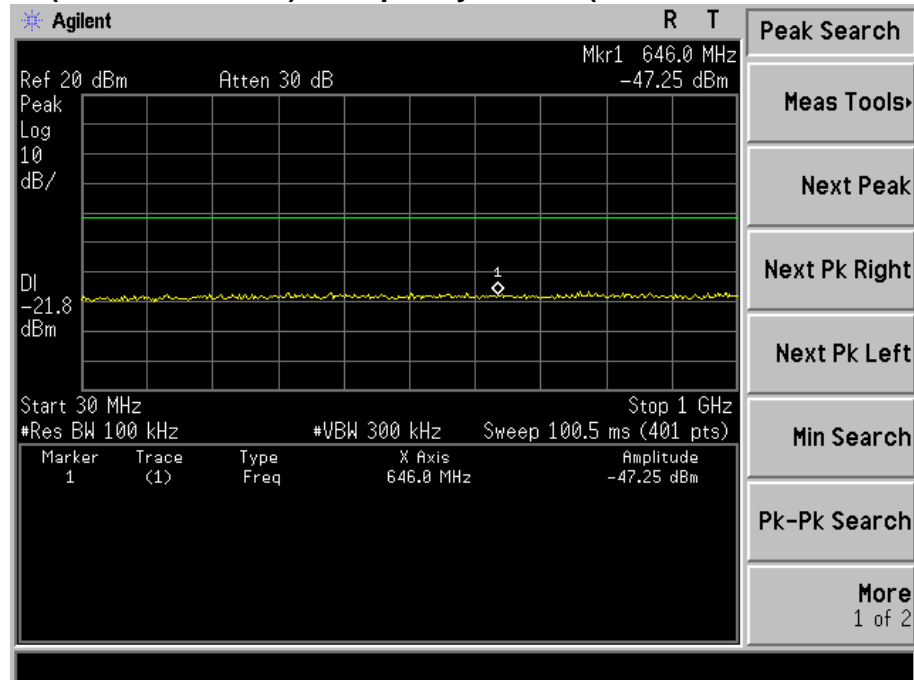
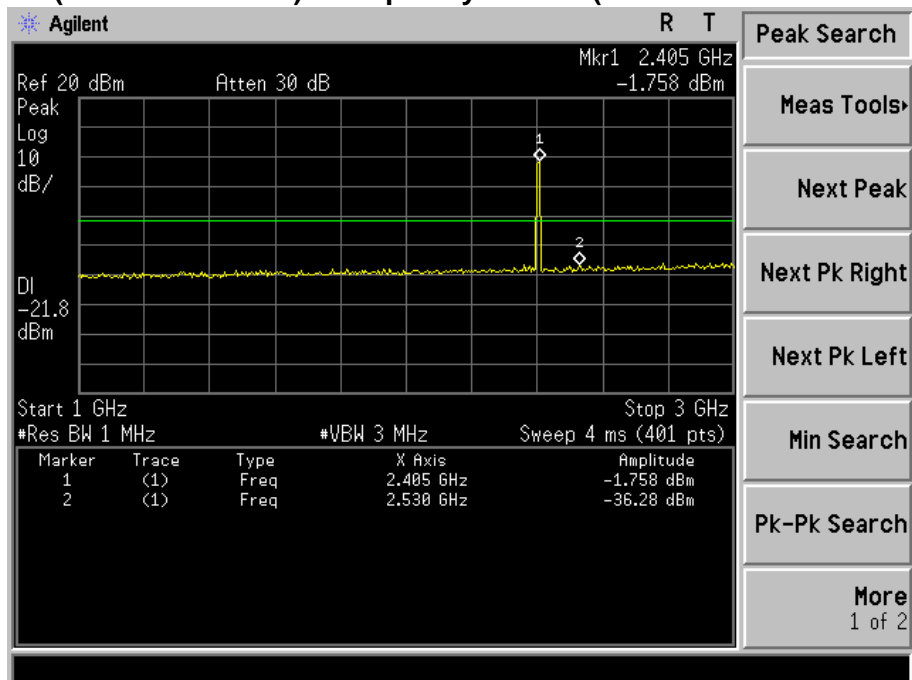


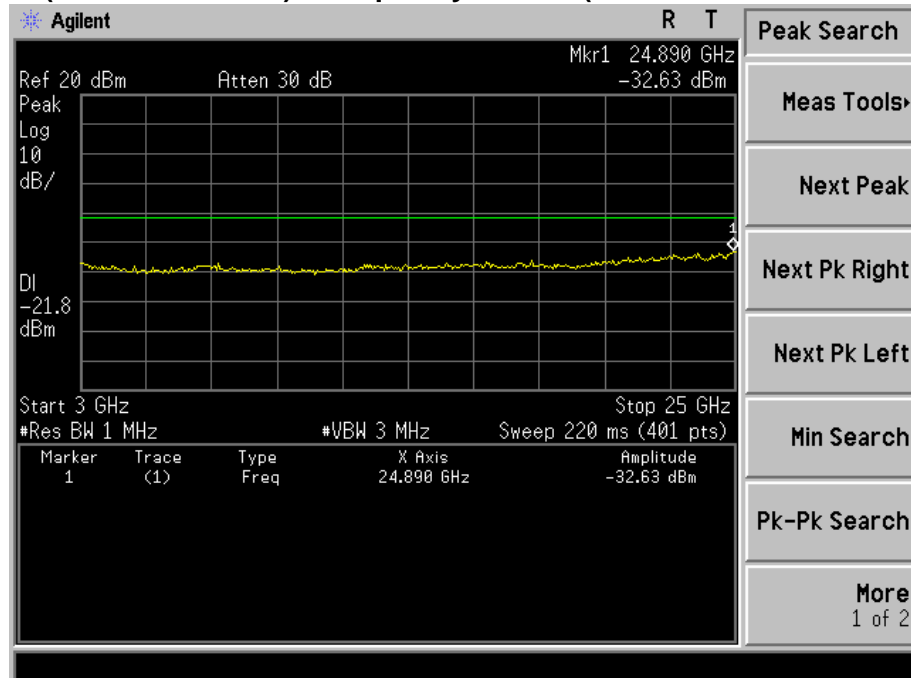
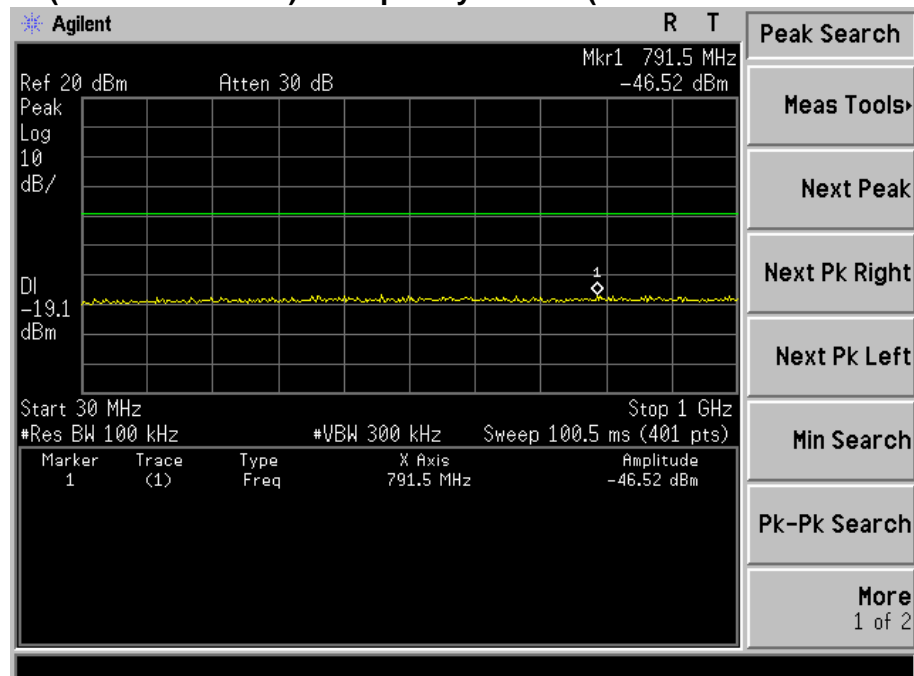
**CH 00 (GFSK mode) - Frequency Band 3 ($3000 \text{ MHz} < f \leq 25000 \text{ MHz}$)****CH 39 (GFSK mode) - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)**

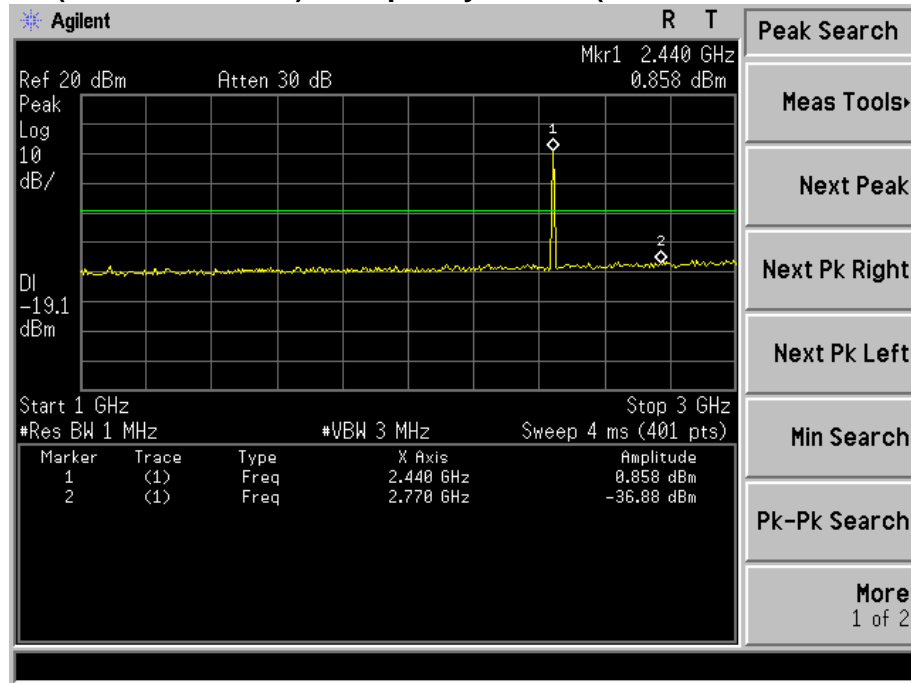
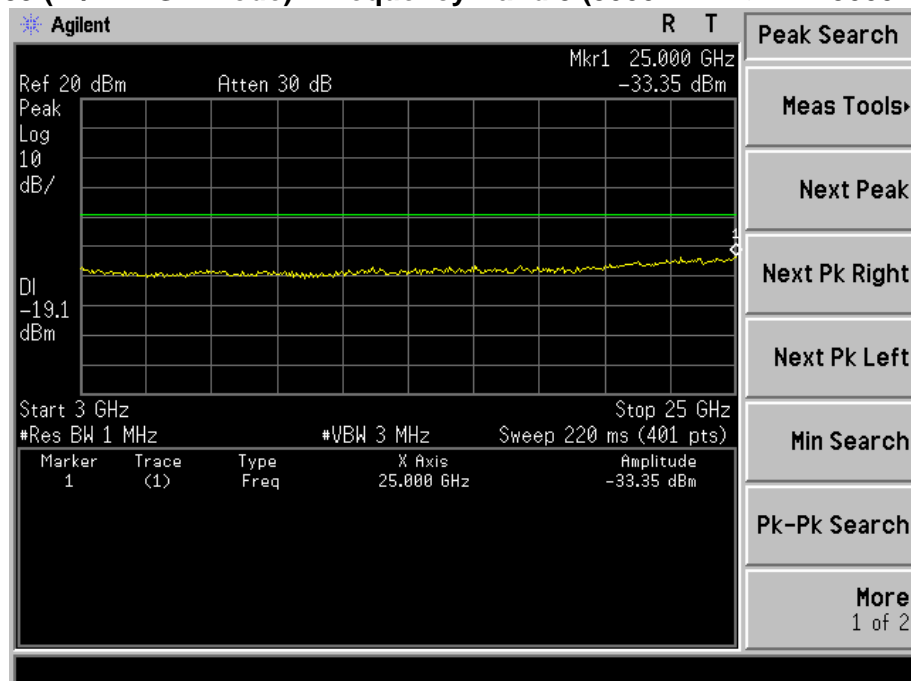
**CH 39 (GFSK mode) - Frequency Band 2 ($1000 \text{ MHz} < f \leq 3000 \text{ MHz}$)****CH 39 (GFSK mode) - Frequency Band 3 ($3000 \text{ MHz} < f \leq 25000 \text{ MHz}$)**

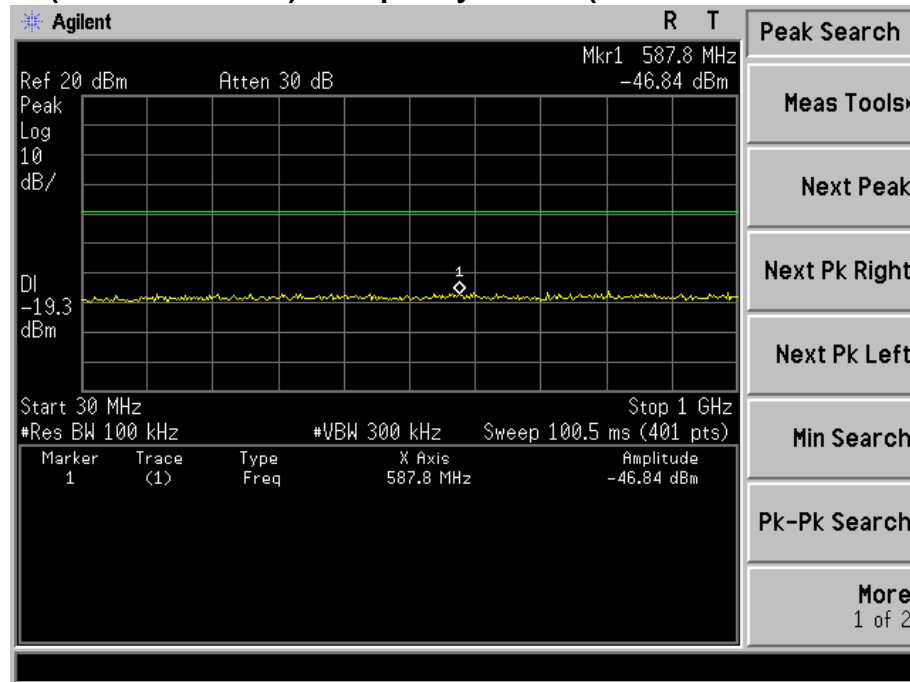
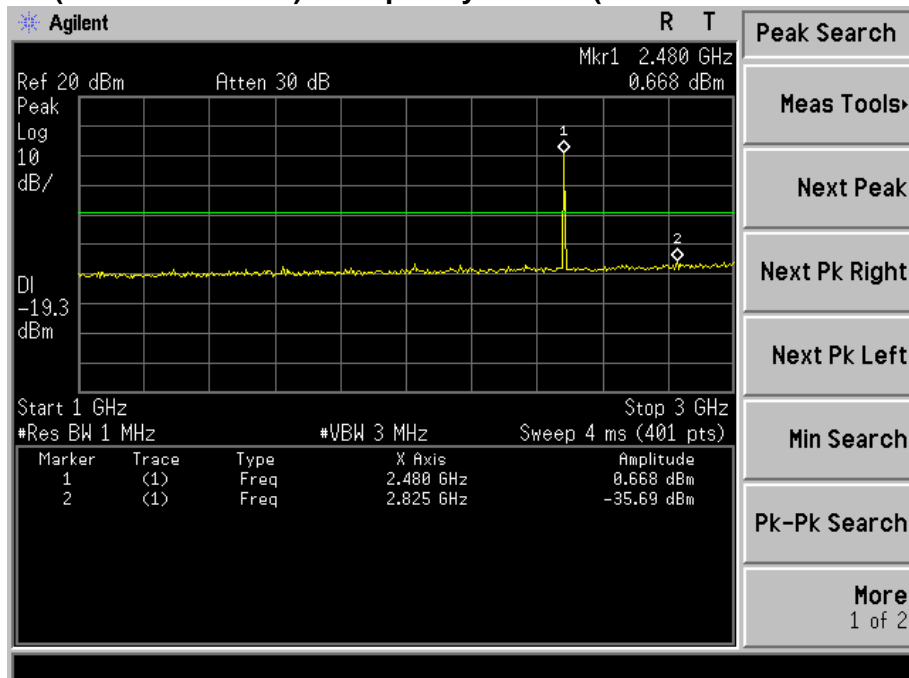
**CH 78 (GFSK mode) - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)****CH 78 (GFSK mode) - Frequency Band 2 ($1000 \text{ MHz} < f \leq 3000 \text{ MHz}$)**

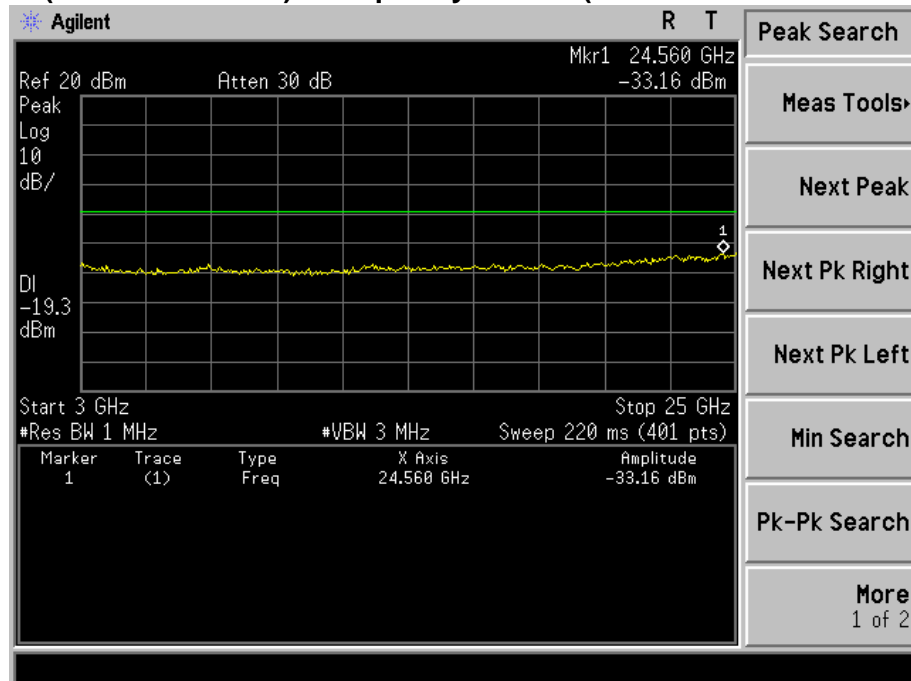
**CH 78 (GFSK mode) - Frequency Band 3 (3000 MHz < f ≤ 25000 MHz)**

Operation Mode: $\pi/4$ DPSK mode(CH00, CH39, CH78)**CH 00 ($\pi/4$ DPSK mode) - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)****CH 00 ($\pi/4$ DPSK mode) - Frequency Band 2 ($1000 \text{ MHz} < f \leq 3000 \text{ MHz}$)**

**CH 00 ($\pi/4$ DPSK mode) - Frequency Band 3 ($3000 \text{ MHz} < f \leq 25000 \text{ MHz}$)****CH 39 ($\pi/4$ DPSK mode) - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)**

**CH 39 ($\pi/4$ DPSK mode) - Frequency Band 2 ($1000 \text{ MHz} < f \leq 3000 \text{ MHz}$)****CH 39 ($\pi/4$ DPSK mode) - Frequency Band 3 ($3000 \text{ MHz} < f \leq 25000 \text{ MHz}$)**

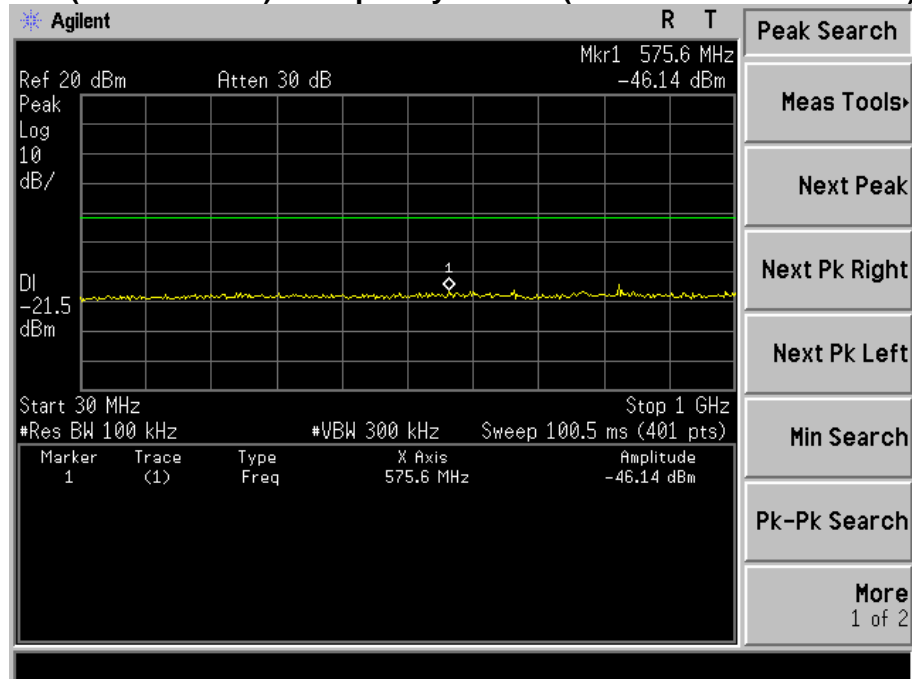
**CH 78 ($\pi/4$ DPSK mode) - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)****CH 78 ($\pi/4$ DPSK mode) - Frequency Band 2 ($1000 \text{ MHz} < f \leq 3000 \text{ MHz}$)**

**CH 78 ($\pi/4$ DPSK mode) - Frequency Band 3 (3000 MHz < f \leq 25000 MHz)**

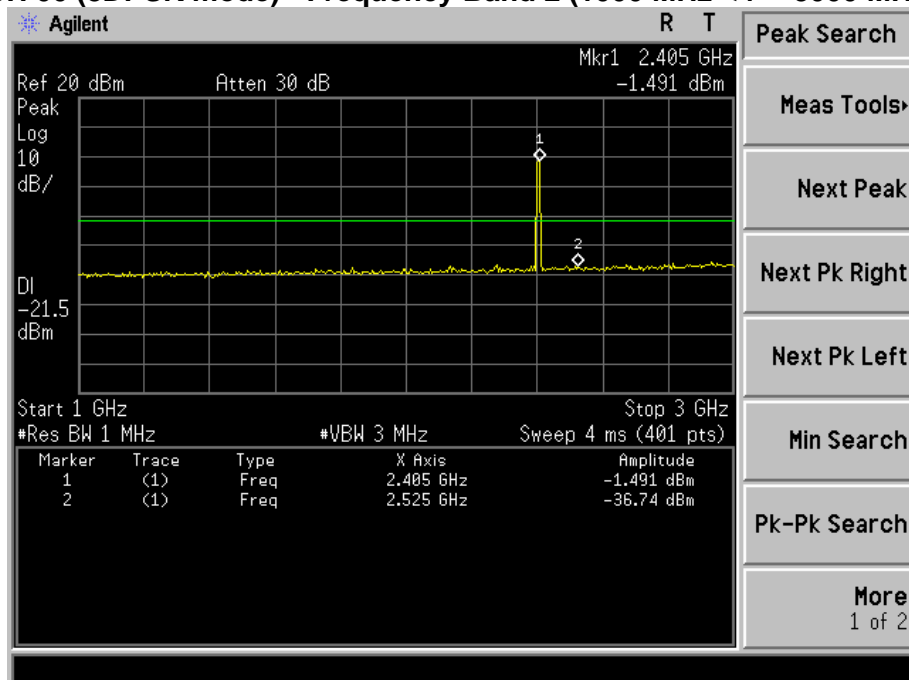


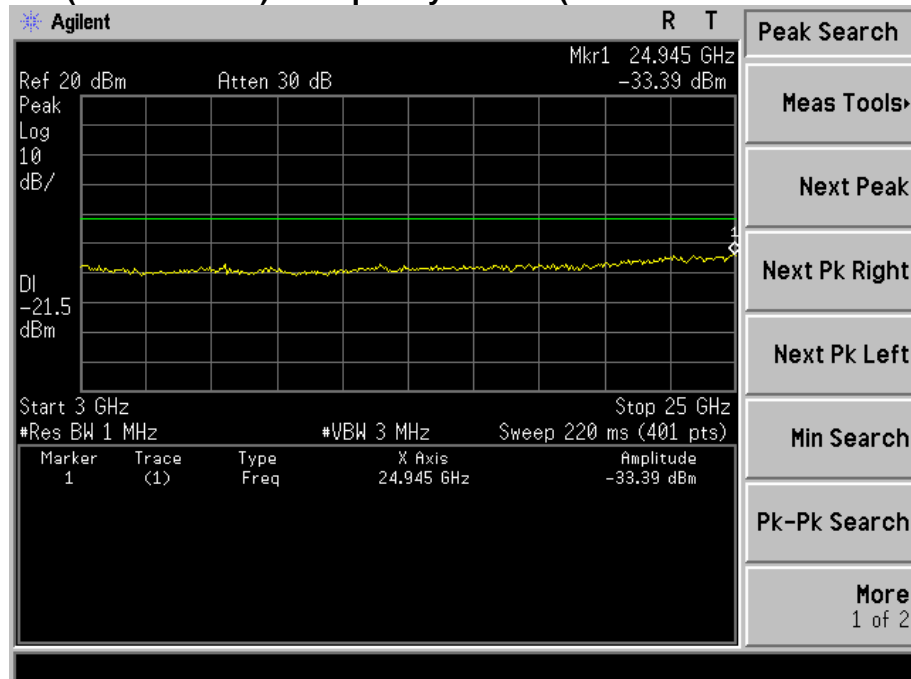
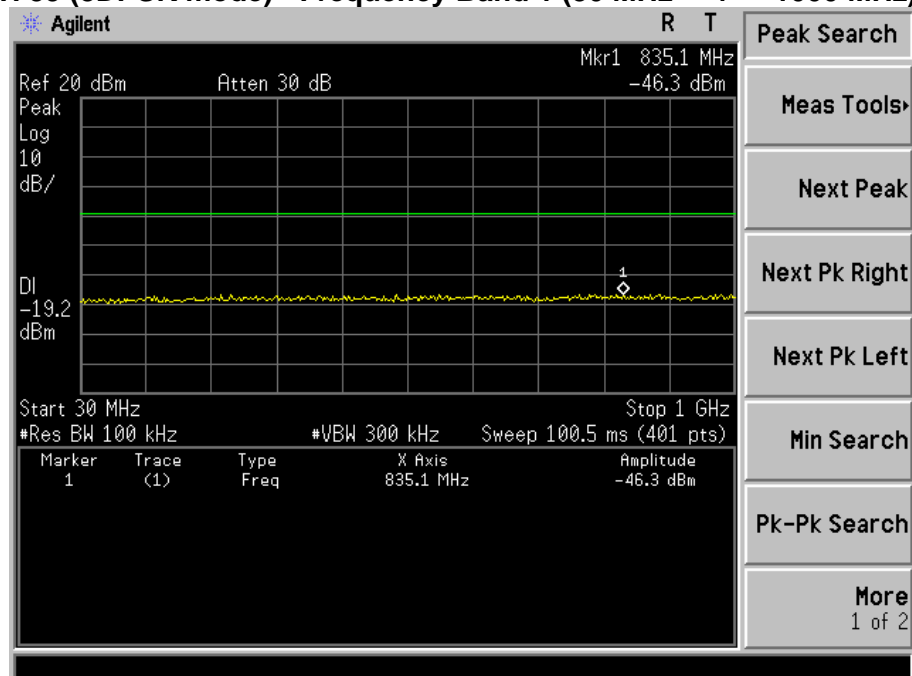
Operation Mode: 8DPSK mode(CH00, CH39, CH78)

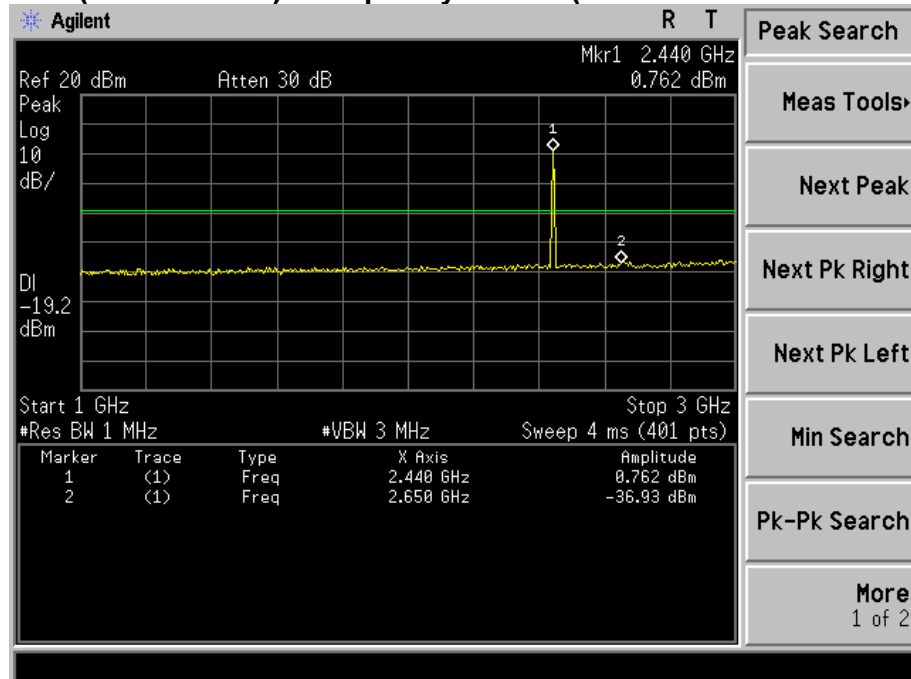
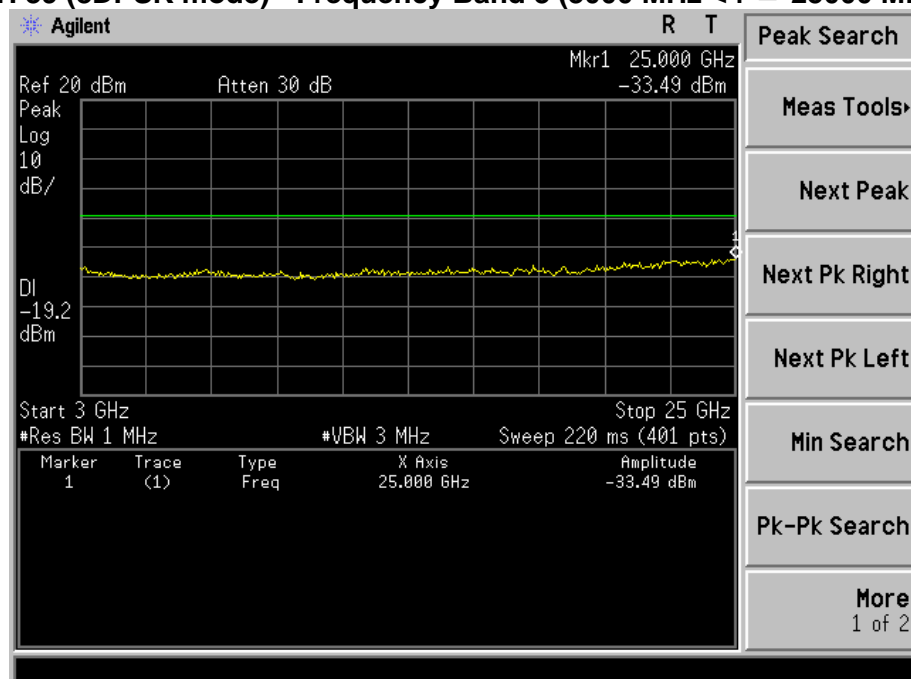
CH 00 (8DPSK mode) - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)

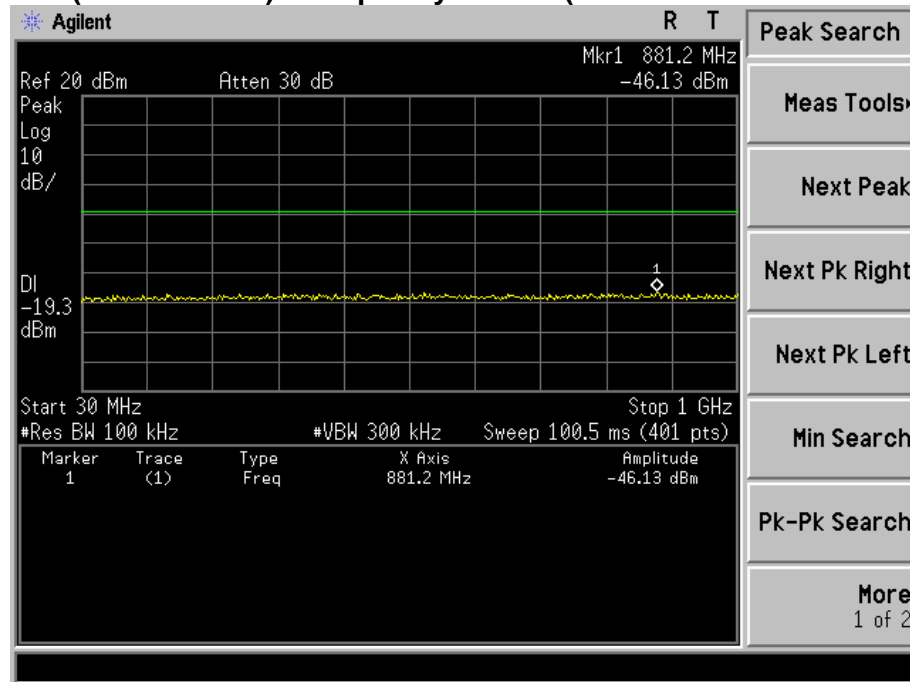
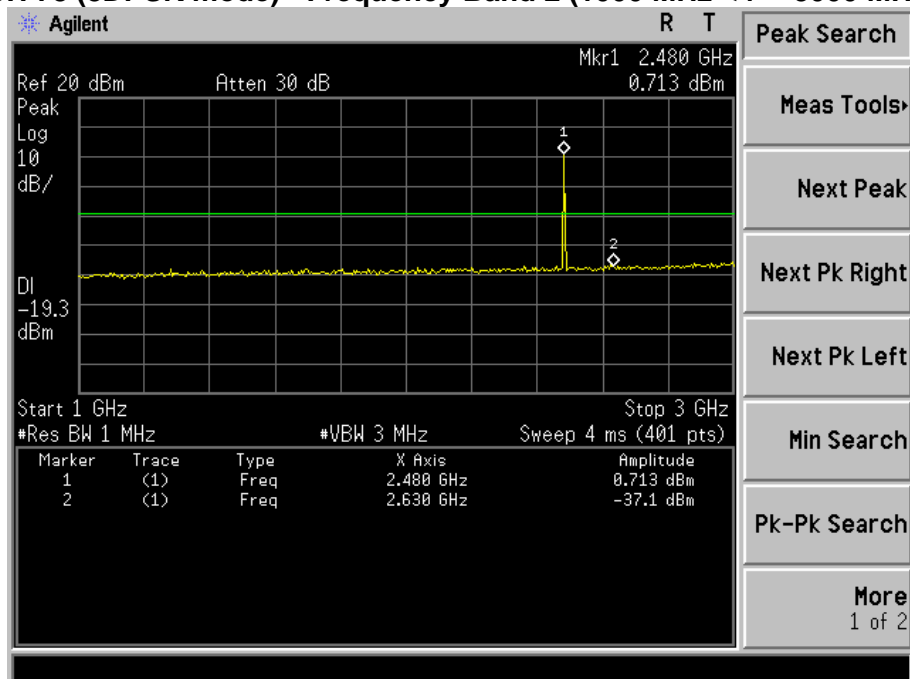


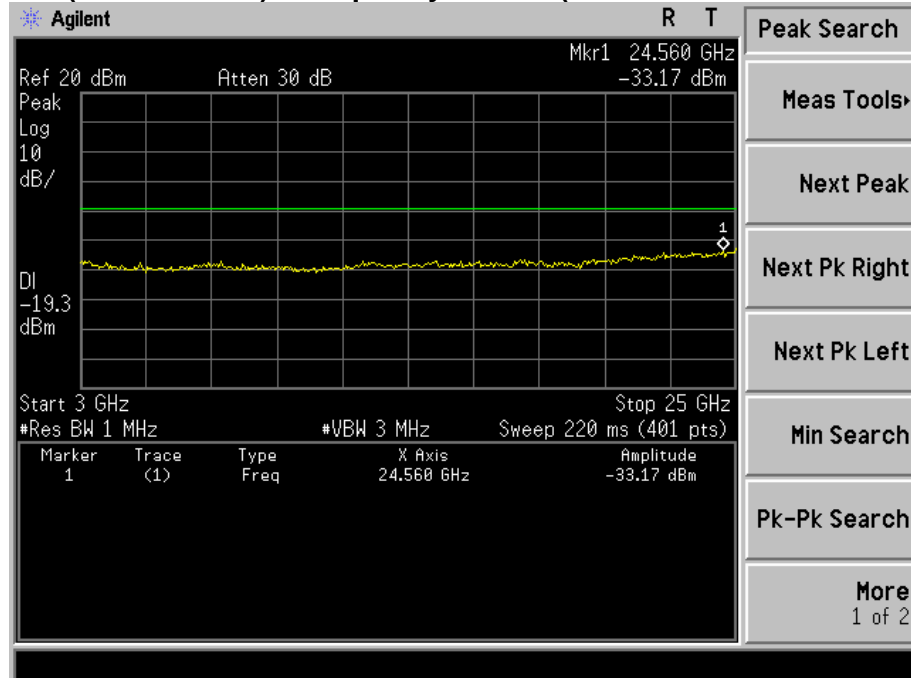
CH 00 (8DPSK mode) - Frequency Band 2 ($1000 \text{ MHz} < f \leq 3000 \text{ MHz}$)



**CH 00 (8DPSK mode) - Frequency Band 3 ($3000 \text{ MHz} < f \leq 25000 \text{ MHz}$)****CH 39 (8DPSK mode) - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)**

**CH 39 (8DPSK mode) - Frequency Band 2 ($1000 \text{ MHz} < f \leq 3000 \text{ MHz}$)****CH 39 (8DPSK mode) - Frequency Band 3 ($3000 \text{ MHz} < f \leq 25000 \text{ MHz}$)**

**CH 78 (8DPSK mode) - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)****CH 78 (8DPSK mode) - Frequency Band 2 ($1000 \text{ MHz} < f \leq 3000 \text{ MHz}$)**

**CH 78 (8DPSK mode) - Frequency Band 3 (3000 MHz < f ≤ 25000 MHz)**



4. BANDWIDTH TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.249) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.249	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	100KHz
VB	\geq RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW \geq RBW, 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.



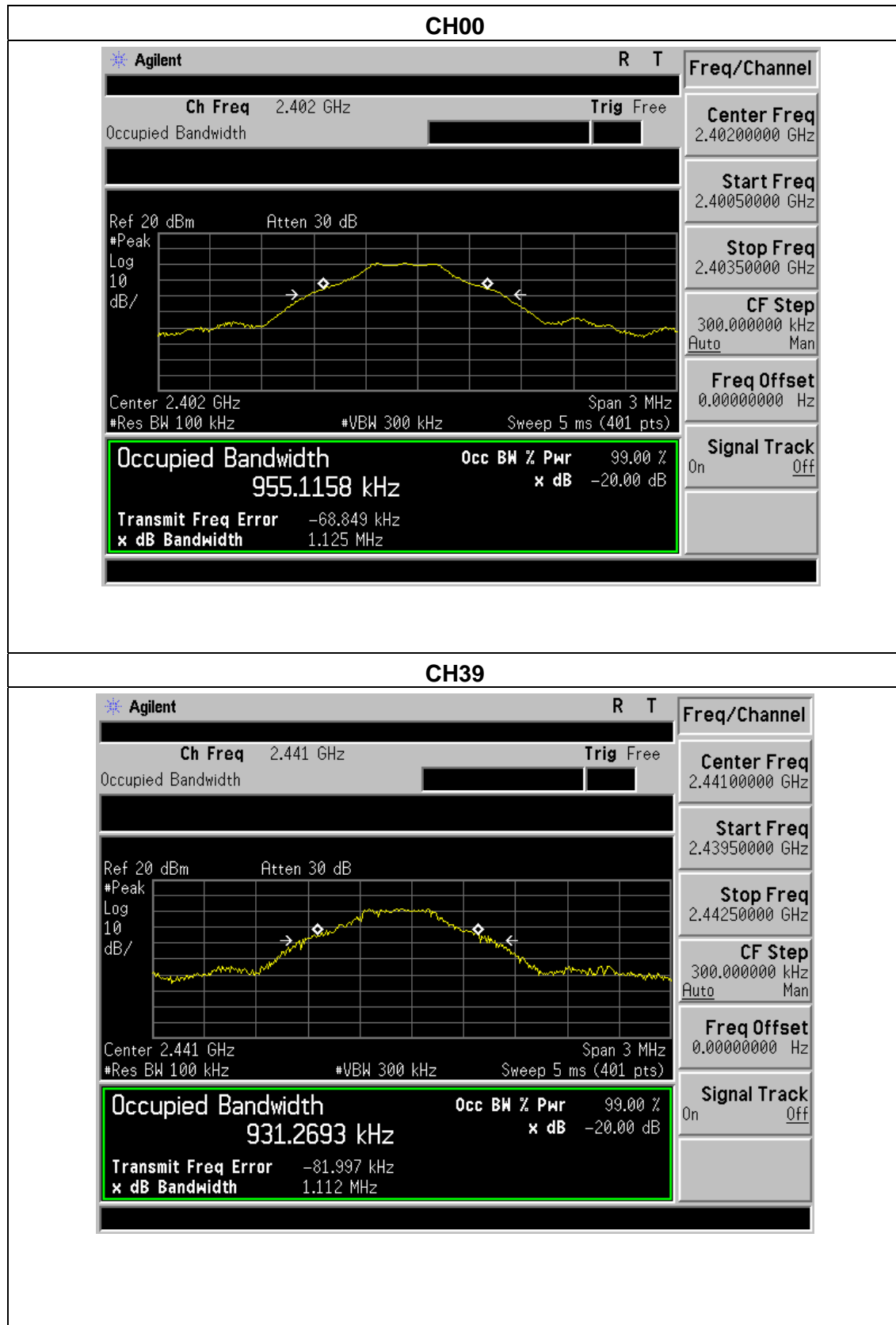
4.1.5 TEST RESULTS

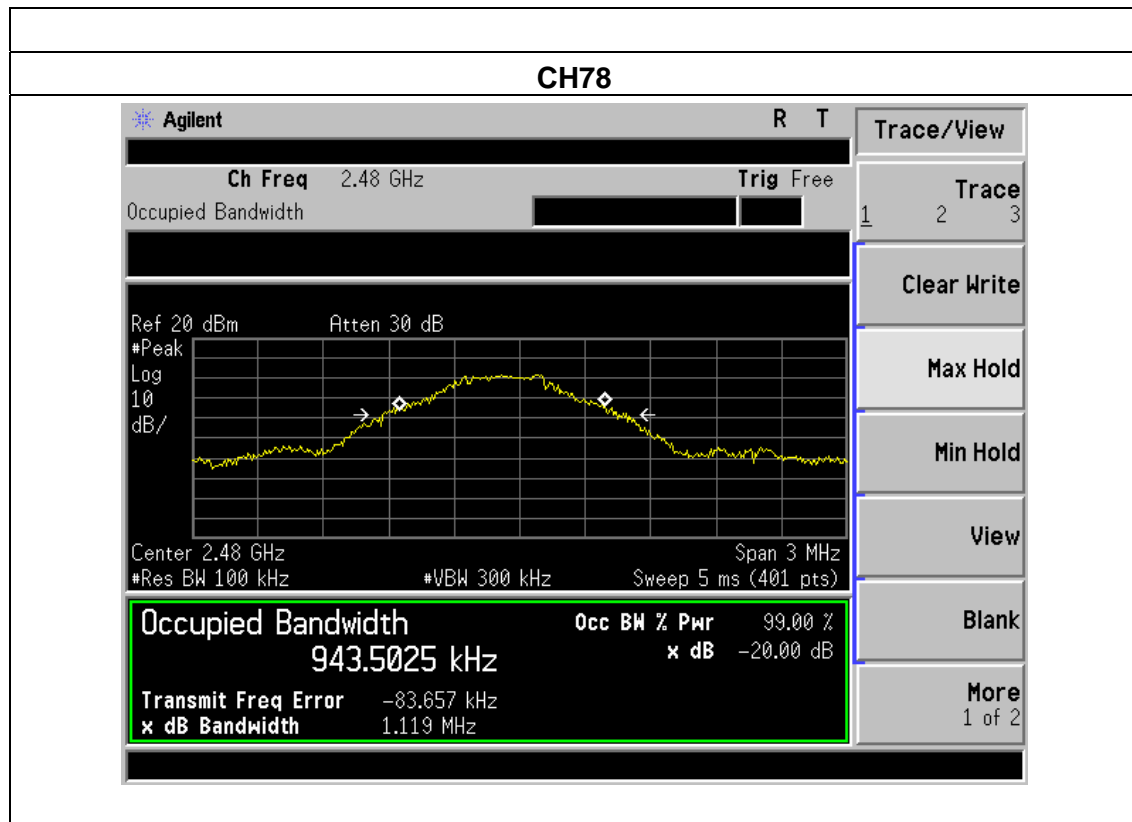
EUT :	AIO	Model Name :	AIO-1502
Temperature :	25 °C	Relative Humidity :	55%
Pressure :	1012 hPa	Test Voltage :	DC 12V from adapter
Test Mode :	CH00 / CH39 / C78		

	Frequency	20dB Bandwidth (kHz)	Result
GFSK	2402 MHz	1125	PASS
	2441 MHz	1112	PASS
	2480 MHz	1119	PASS
PI/4 DPSK	2402 MHz	1379	PASS
	2441 MHz	1403	PASS
	2480 MHz	1386	PASS
8DPSK	2402 MHz	1382	PASS
	2441 MHz	1397	PASS
	2480 MHz	1378	PASS



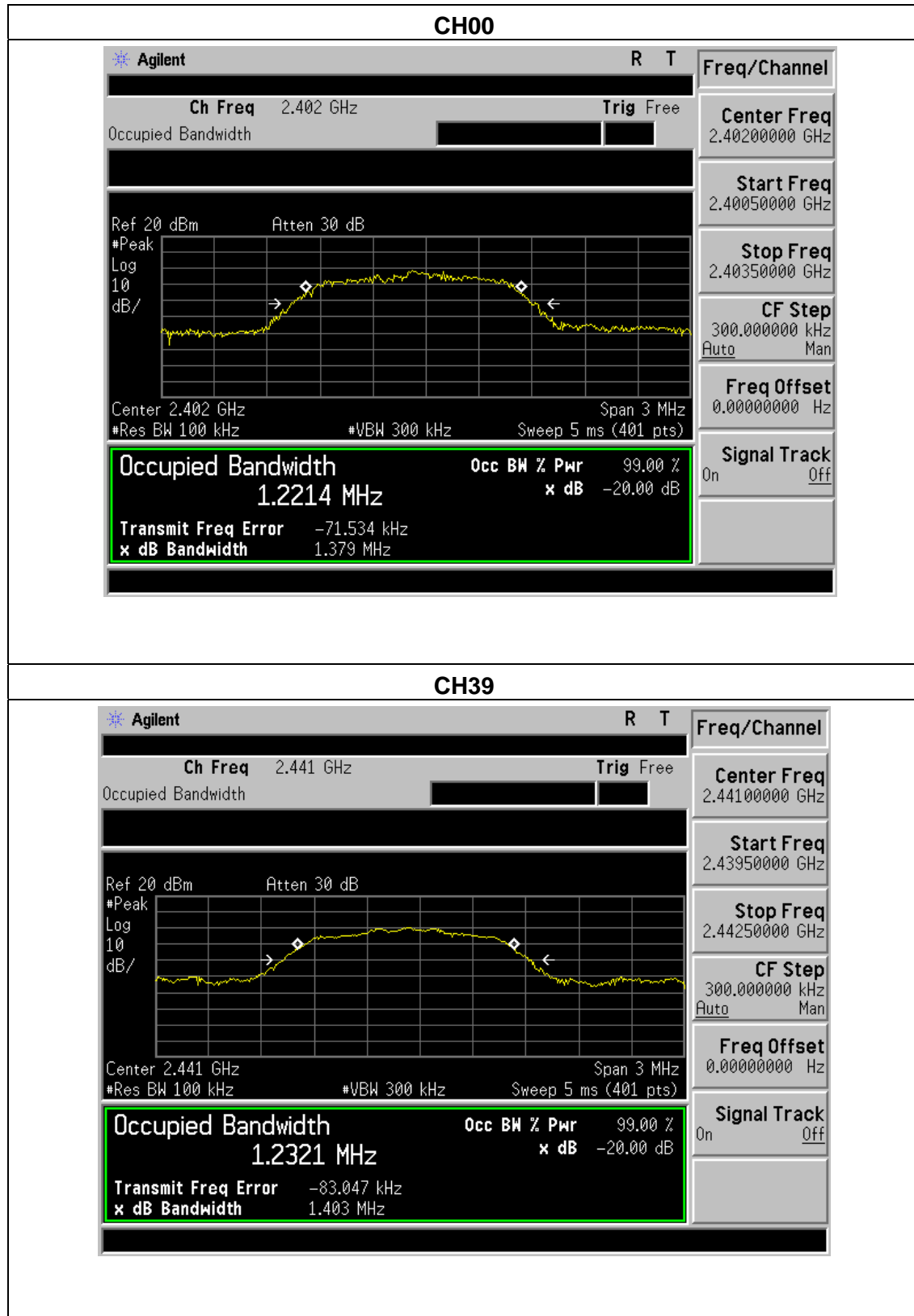
GFSK

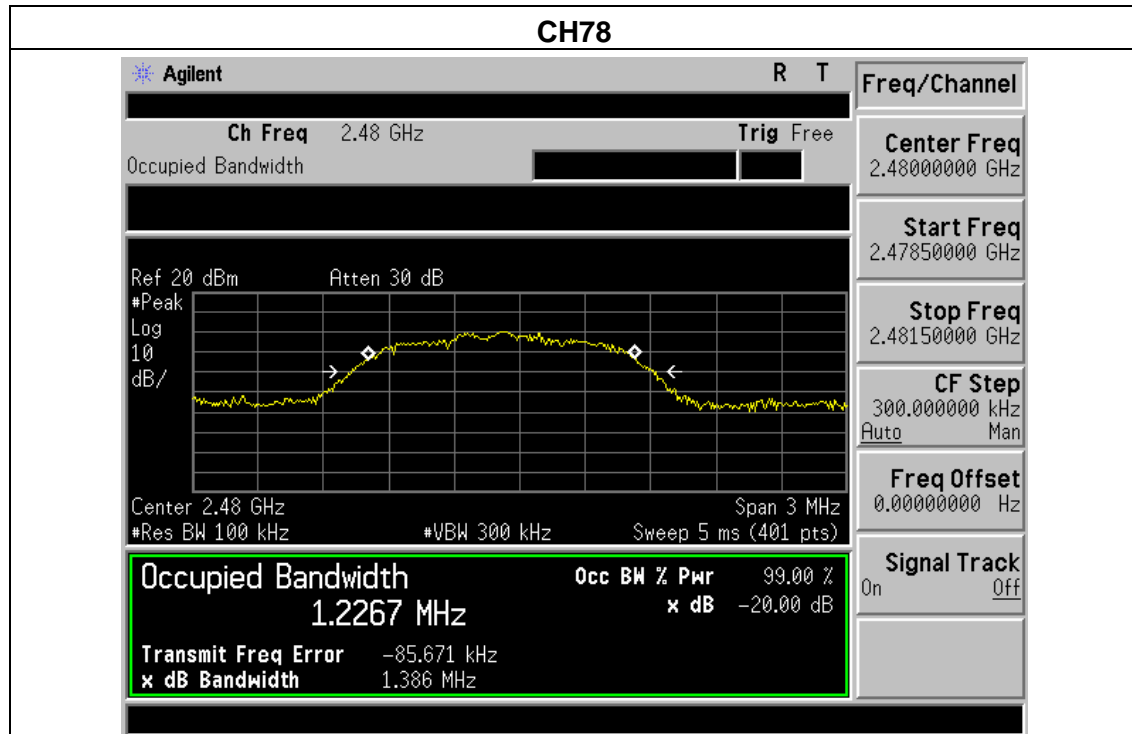






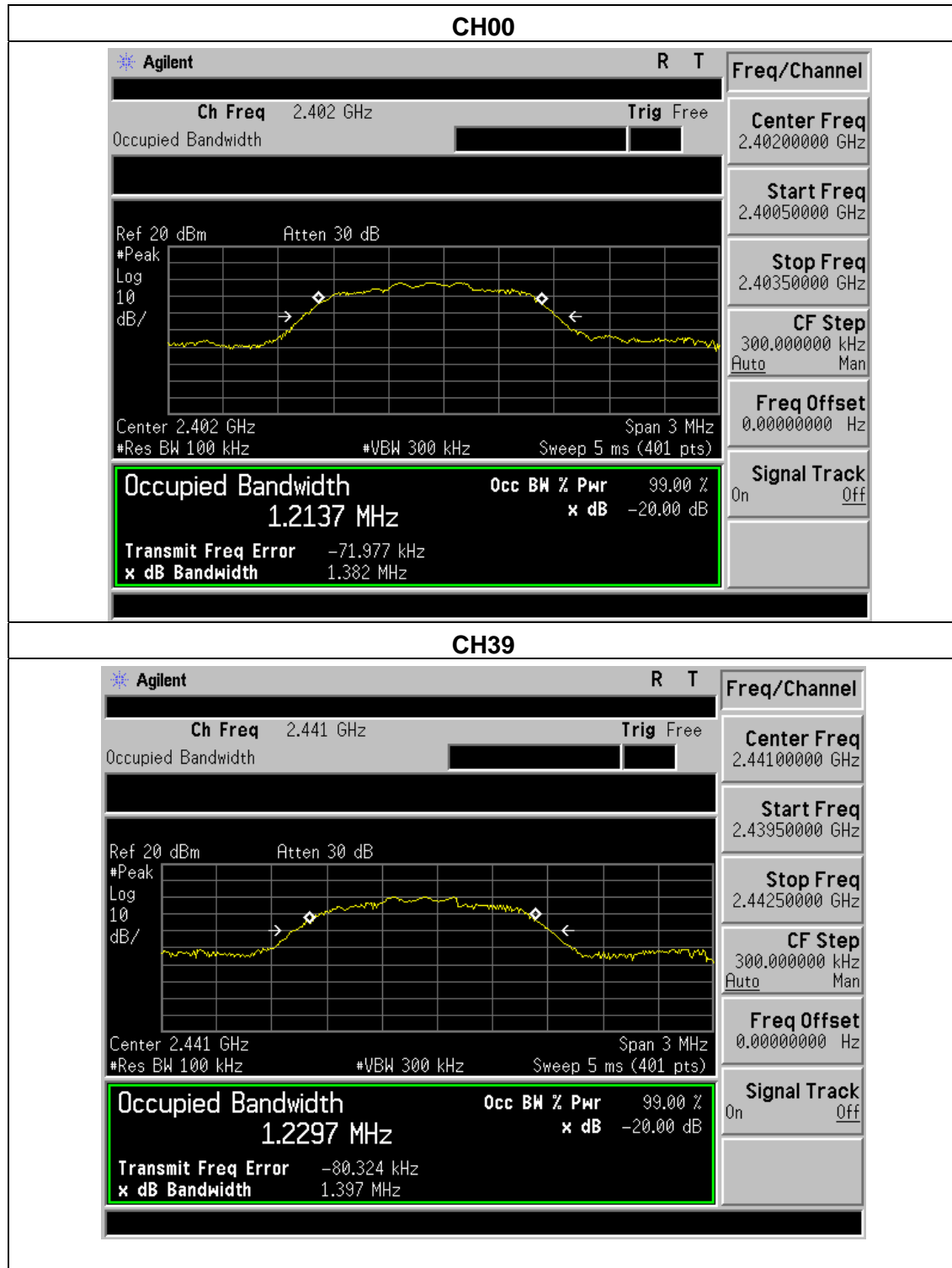
PI/4 DPSK

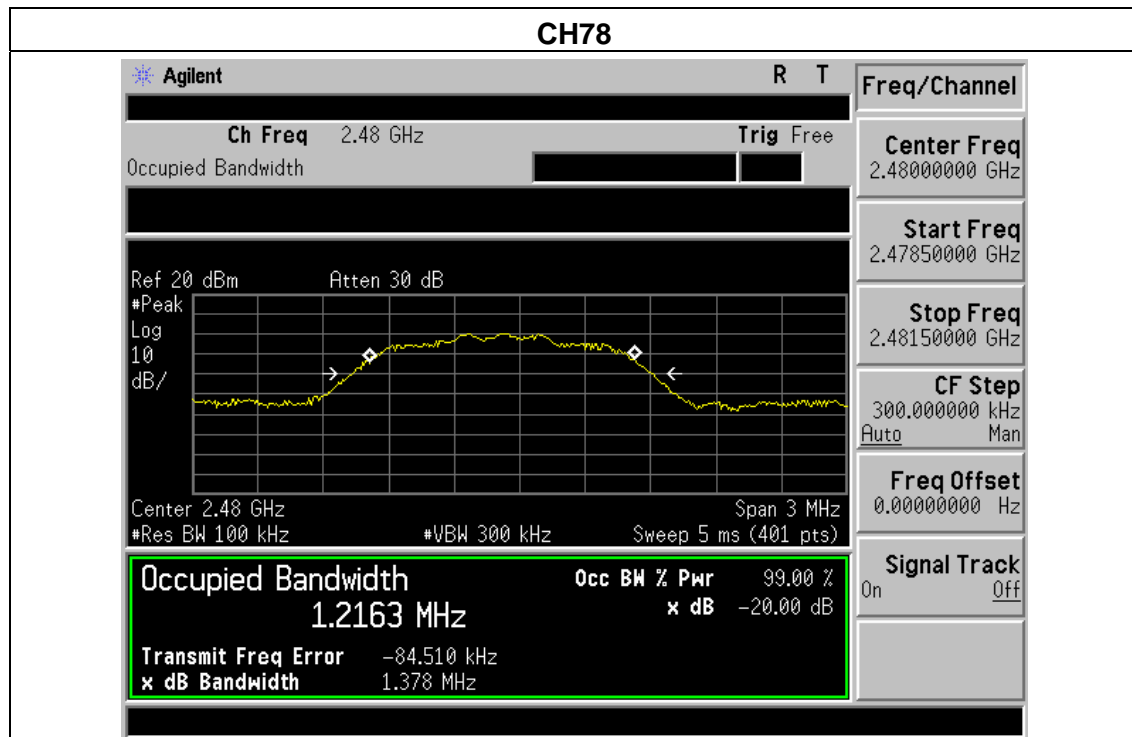






8DPSK







5. 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)(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.

Note:

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



5.1 DEVIATION FROM STANDARD

No deviation.

5.2 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.



5.3 TEST RESULTS

Temperature :	25 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC12V from adapter
Test Mode :	CH00/ CH78		

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission evel (dBuV/m)	Limits (dBuV/m)		Result
							PK	PK	AV	
GFSK	Low Channel 2402MHz									
	H	2390.00	57.13	38.06	7.42	20.15	46.64	74.00	54.00	PASS
	H	2400.00	56.25	38.06	7.42	20.15	45.76	74.00	54.00	PASS
	V	2390.00	56.19	38.06	7.42	20.15	45.70	74.00	54.00	PASS
	V	2400.00	55.87	38.06	7.42	20.15	45.38	74.00	54.00	PASS
	High Channel 2480MHz									
	H	2483.50	58.36	38.17	7.42	20.51	48.12	74.00	54.00	PASS
	H	2483.50	59.50	38.17	7.42	20.51	49.26	74.00	54.00	PASS
	V	2485.50	58.28	38.2	7.45	20.54	48.07	74.00	54.00	PASS
V	2485.50	58.91	38.2	7.45	20.54	48.70	74.00	54.00	PASS	
PI/4 DPSK	Low Channel 2402MHz									
	H	2390.00	57.36	38.06	7.42	20.15	46.87	74.00	54.00	PASS
	H	2400.00	56.87	38.06	7.42	20.15	46.38	74.00	54.00	PASS
	V	2390.00	56.90	38.06	7.42	20.15	46.41	74.00	54.00	PASS
	V	2400.00	57.77	38.06	7.42	20.15	47.28	74.00	54.00	PASS
	High Channel 2480MHz									
	H	2483.50	56.72	38.17	7.42	20.51	46.48	74.00	54.00	PASS
	H	2483.50	56.11	38.17	7.42	20.51	45.87	74.00	54.00	PASS
	V	2485.50	56.63	38.2	7.45	20.54	46.42	74.00	54.00	PASS
V	2485.50	57.91	38.2	7.45	20.54	47.70	74.00	54.00	PASS	
8DPSK	Low Channel 2402MHz									
	H	2390.00	61.54	38.06	7.42	20.15	51.05	74.00	54.00	PASS
	H	2400.00	63.05	38.06	7.42	20.15	52.56	74.00	54.00	PASS
	V	2390.00	61.73	38.06	7.42	20.15	51.24	74.00	54.00	PASS
	V	2400.00	60.89	38.06	7.42	20.15	50.40	74.00	54.00	PASS
	High Channel 2480MHz									
	H	2483.50	56.88	38.17	7.42	20.51	46.64	74.00	54.00	PASS
	H	2483.50	57.32	38.17	7.42	20.51	47.08	74.00	54.00	PASS
	V	2485.50	58.00	38.2	7.45	20.54	47.79	74.00	54.00	PASS
V	2485.50	57.34	38.2	7.45	20.54	47.13	74.00	54.00	PASS	

Remark:

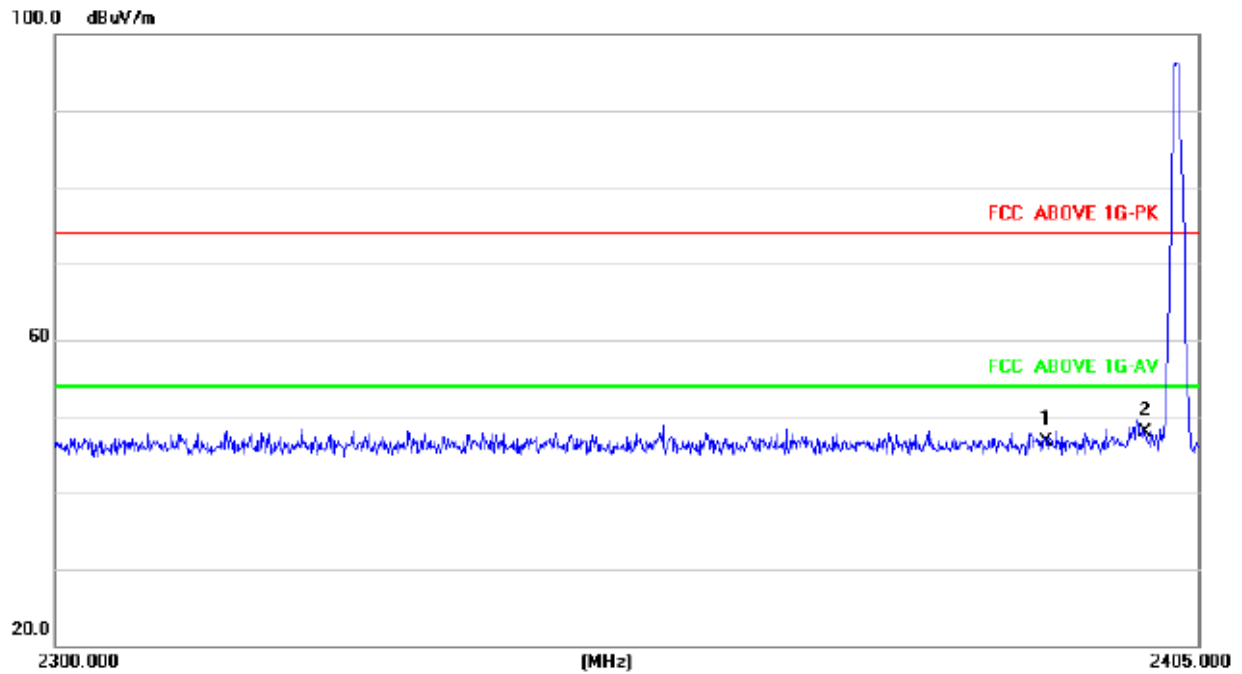
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

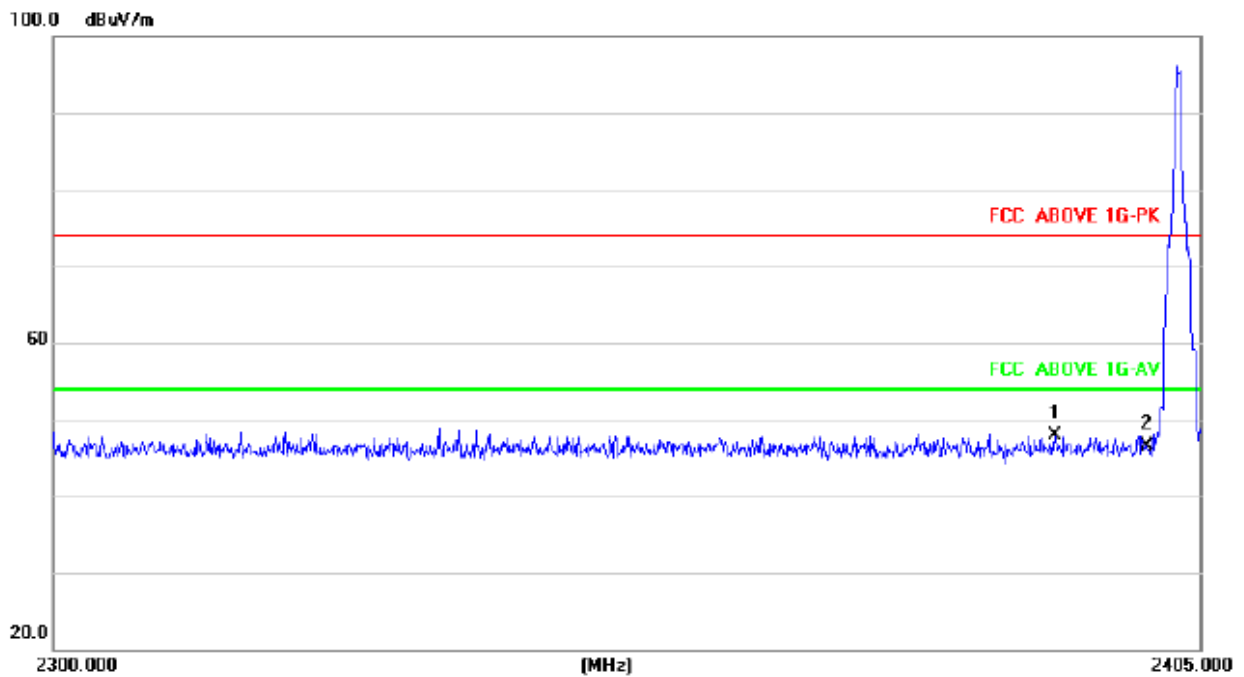


GFSK

2402MHz Horizontal

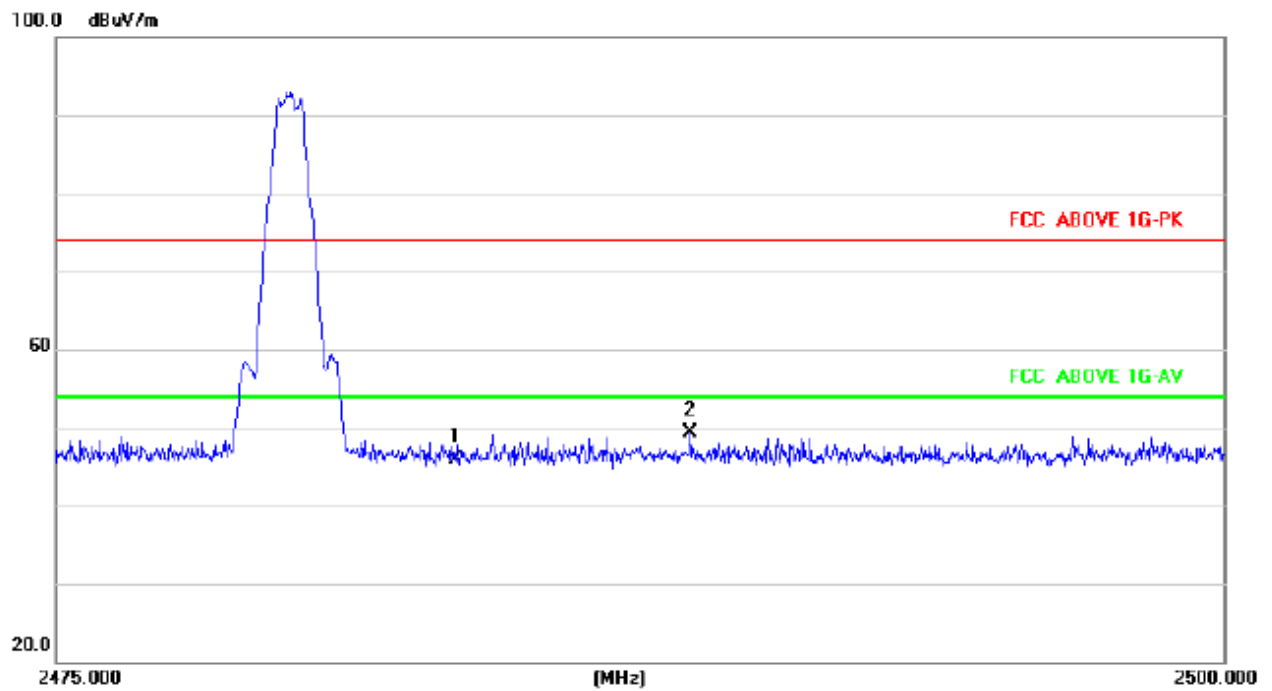


2402MHz Vertical

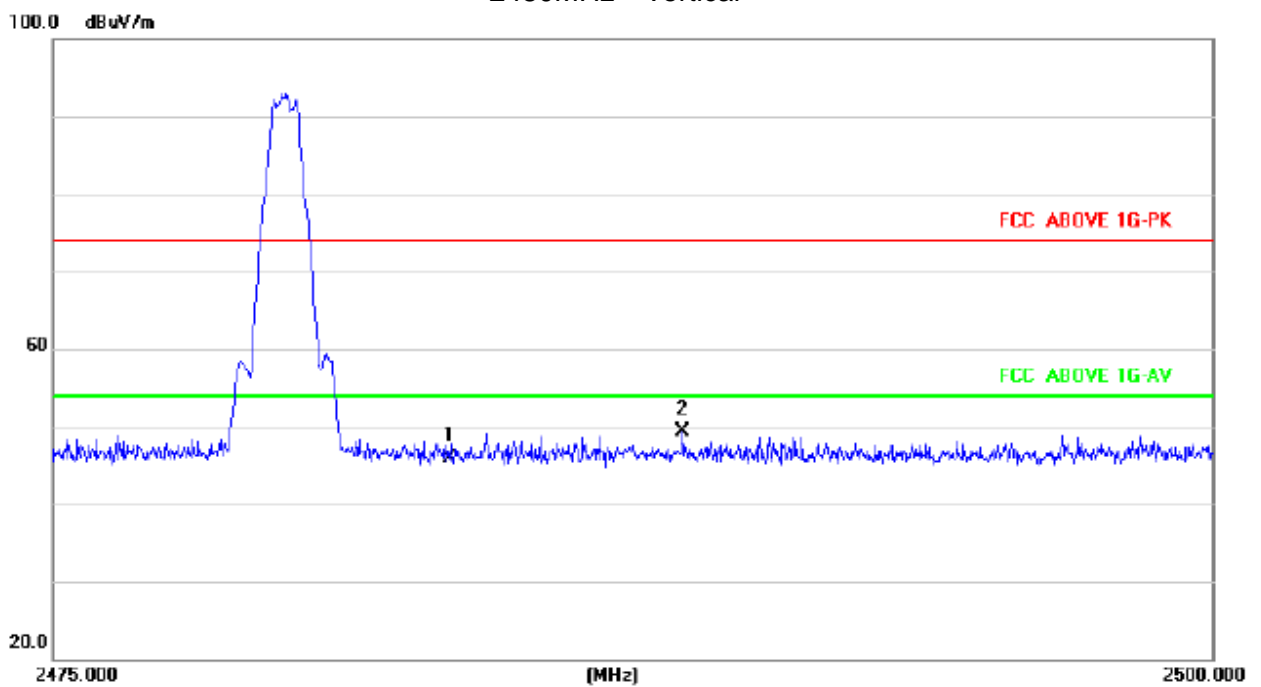




2480MHz Horizontal



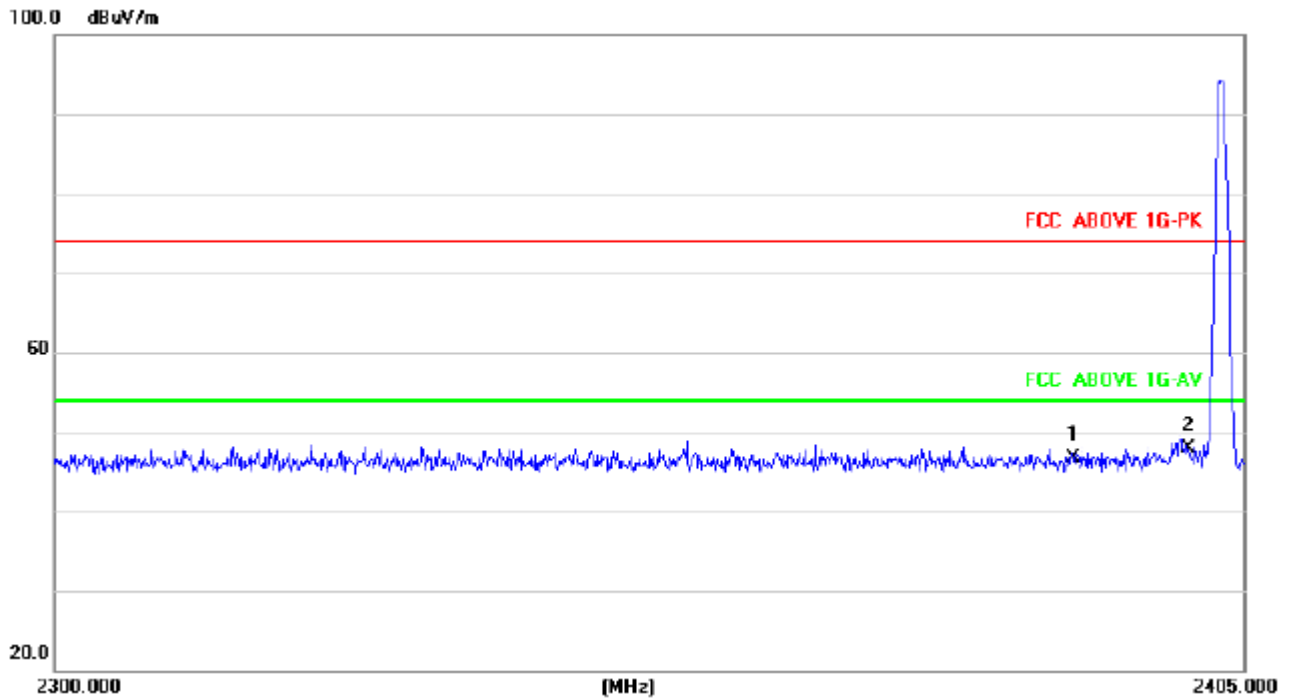
2480MHz Vertical



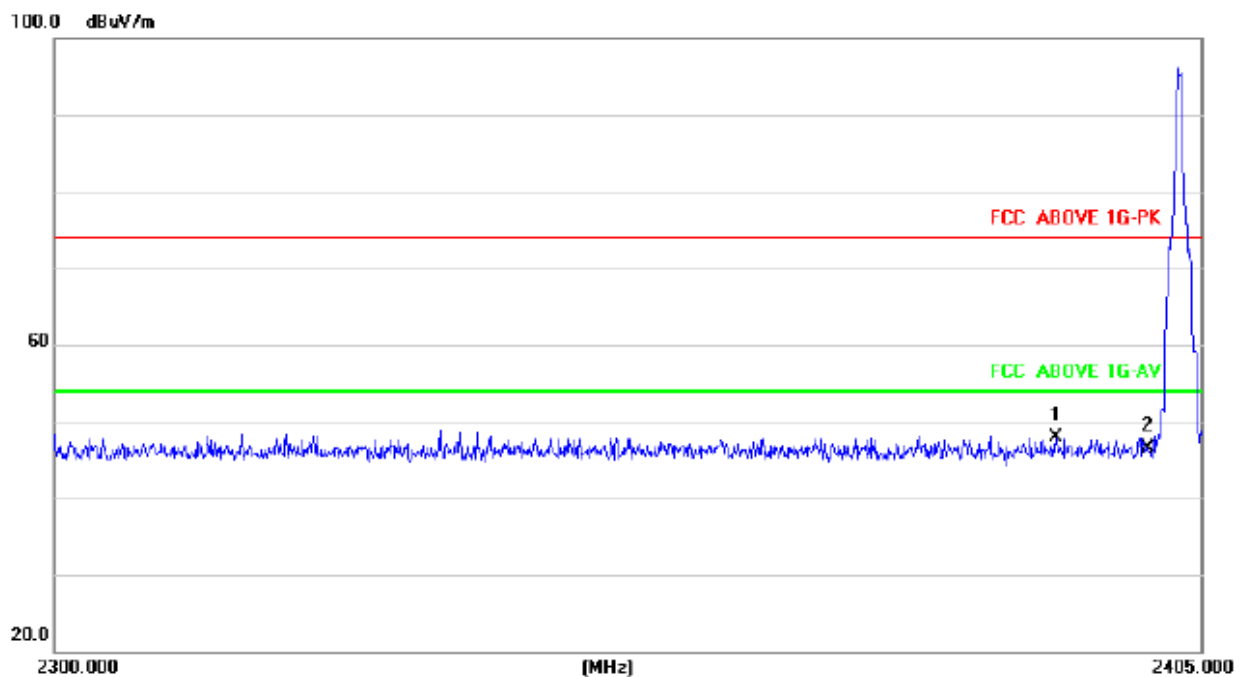


PI/4 DPSK

2402MHz Horizontal

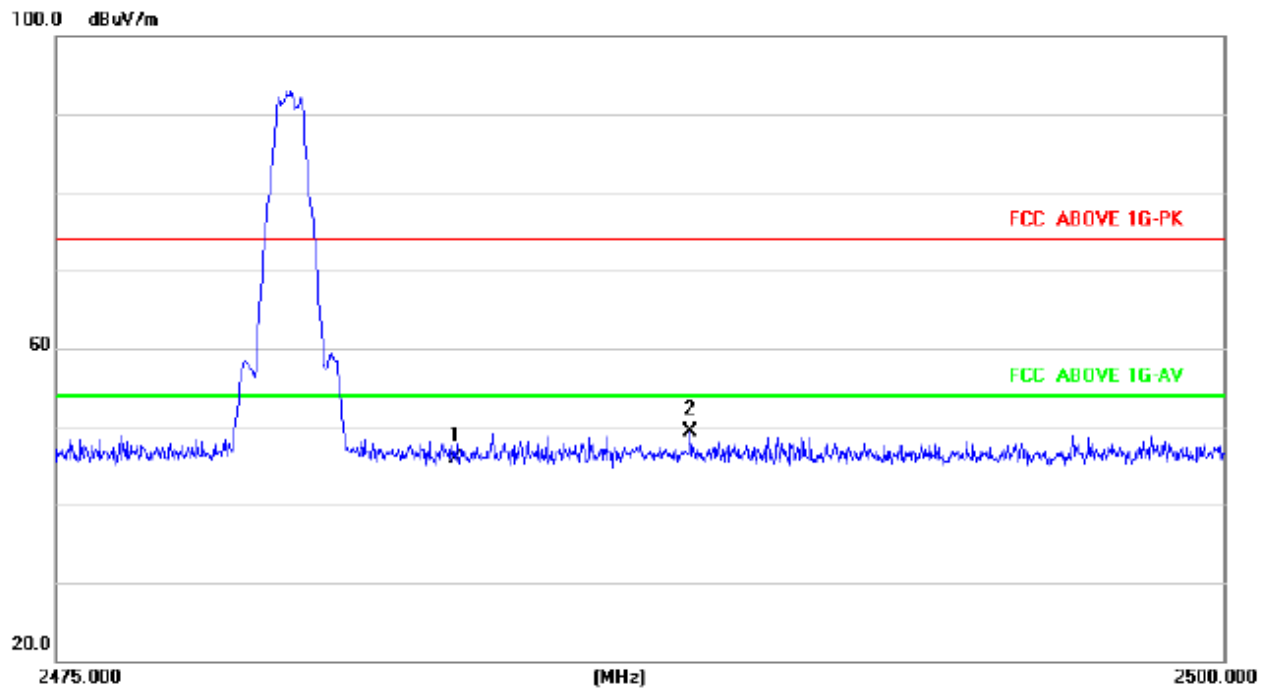


2402MHz Vertical

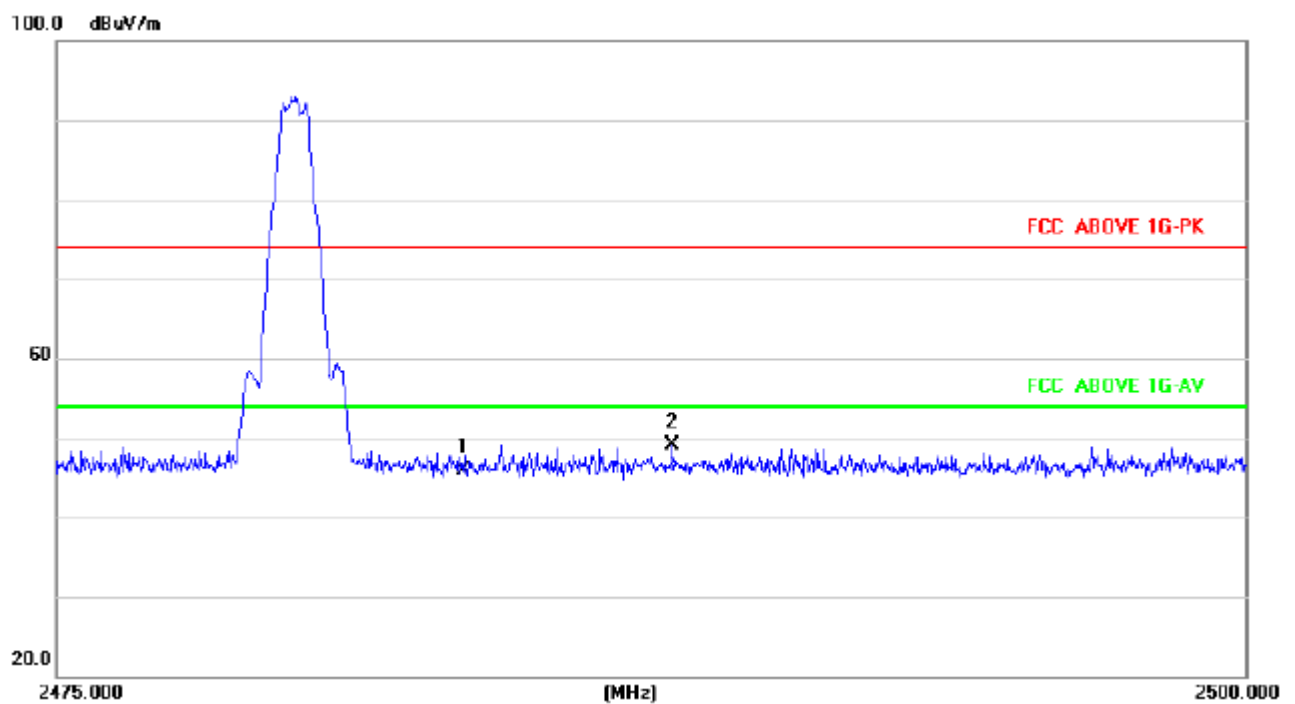




2480MHz Horizontal



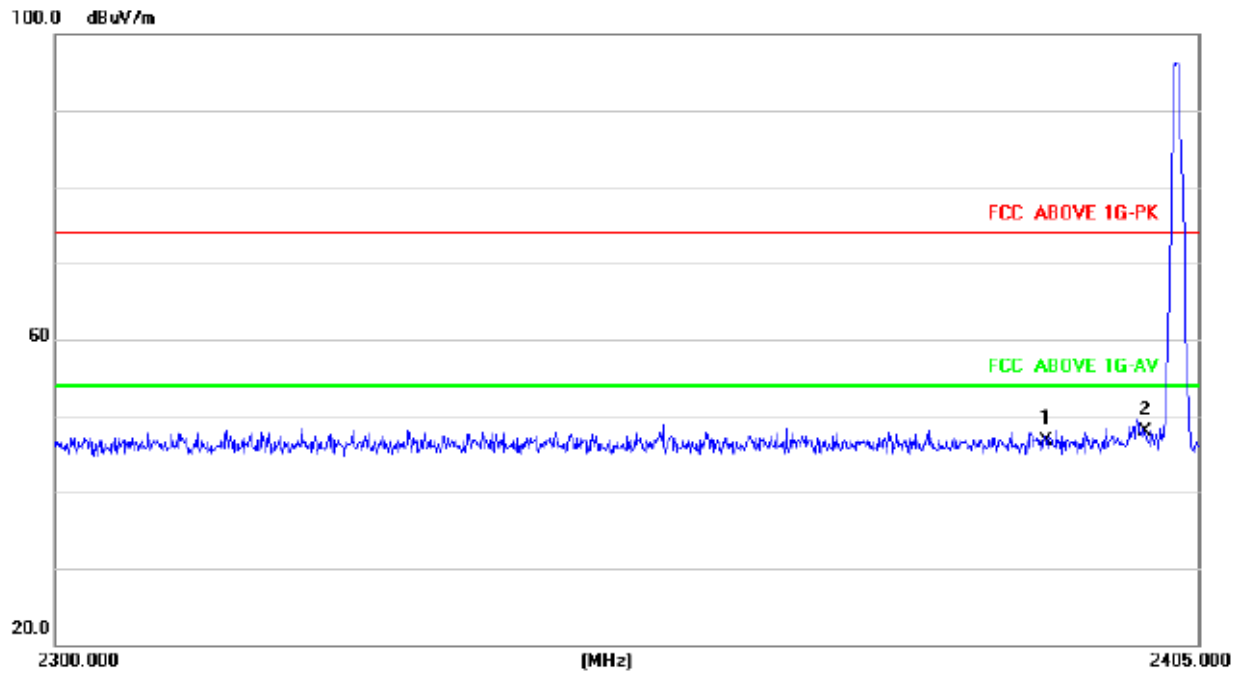
2480MHz Vertical



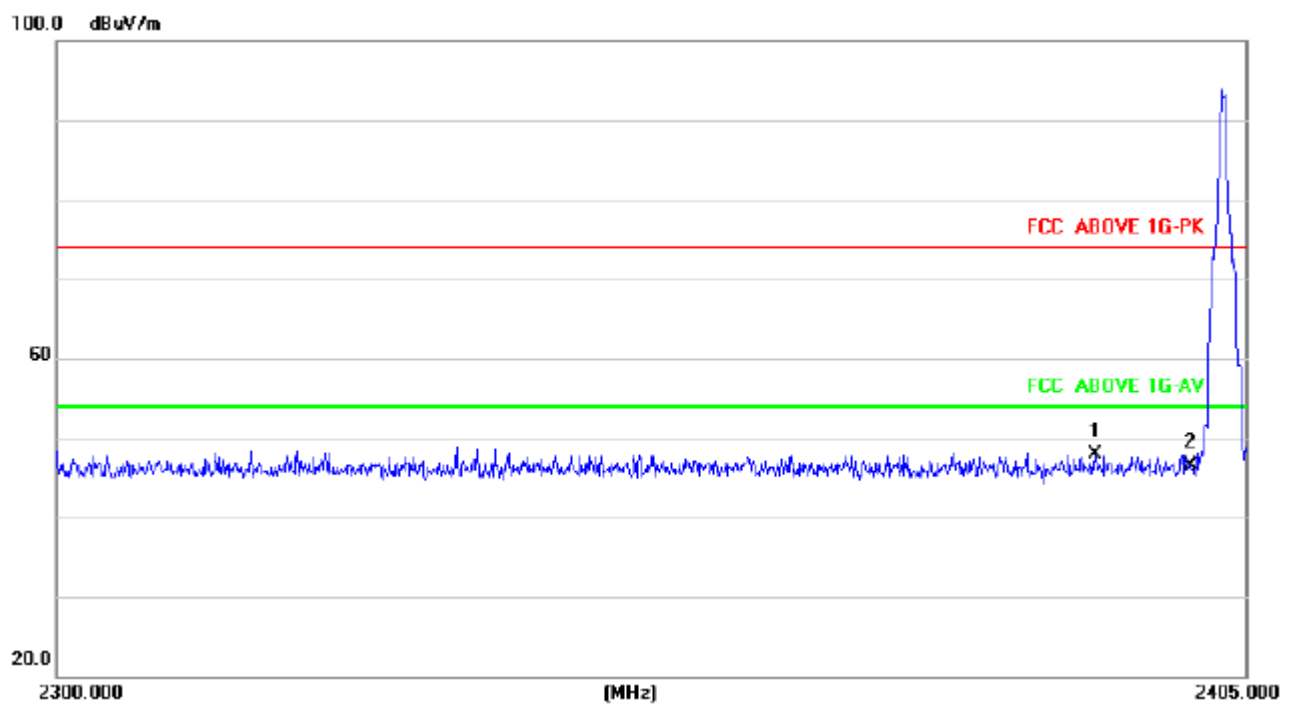


8DPSK

2402MHz Horizontal

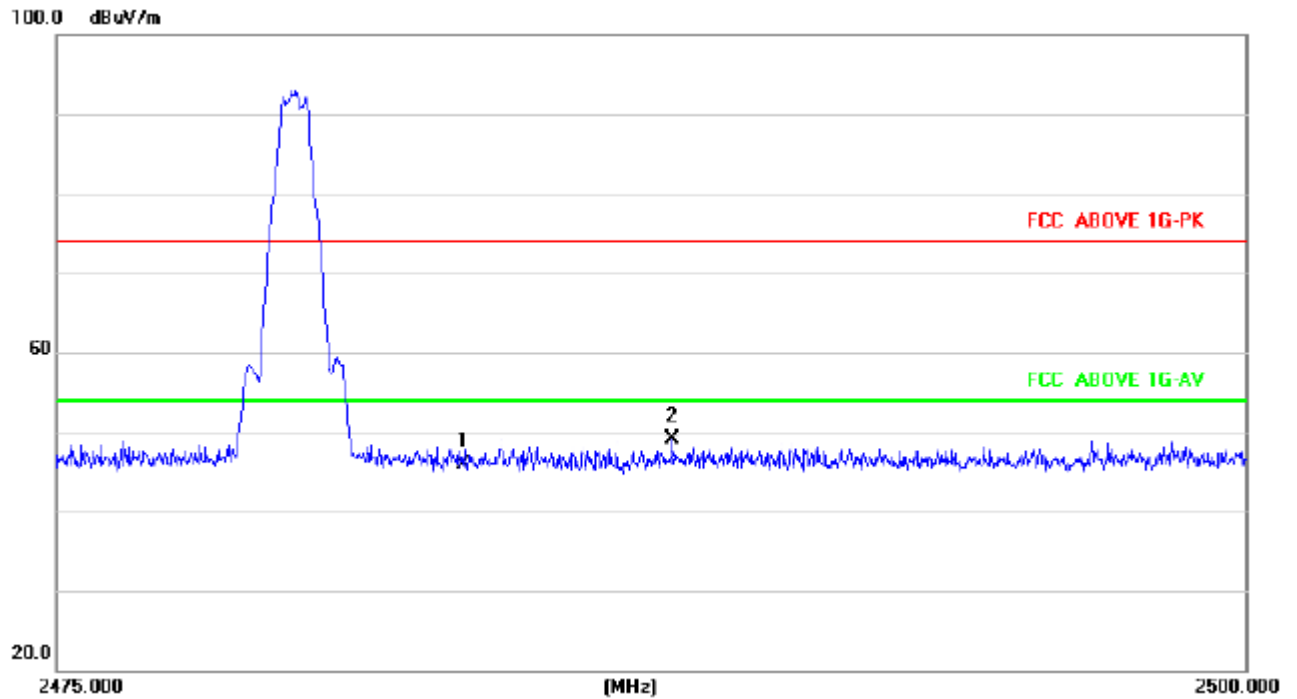


2402MHz Vertical

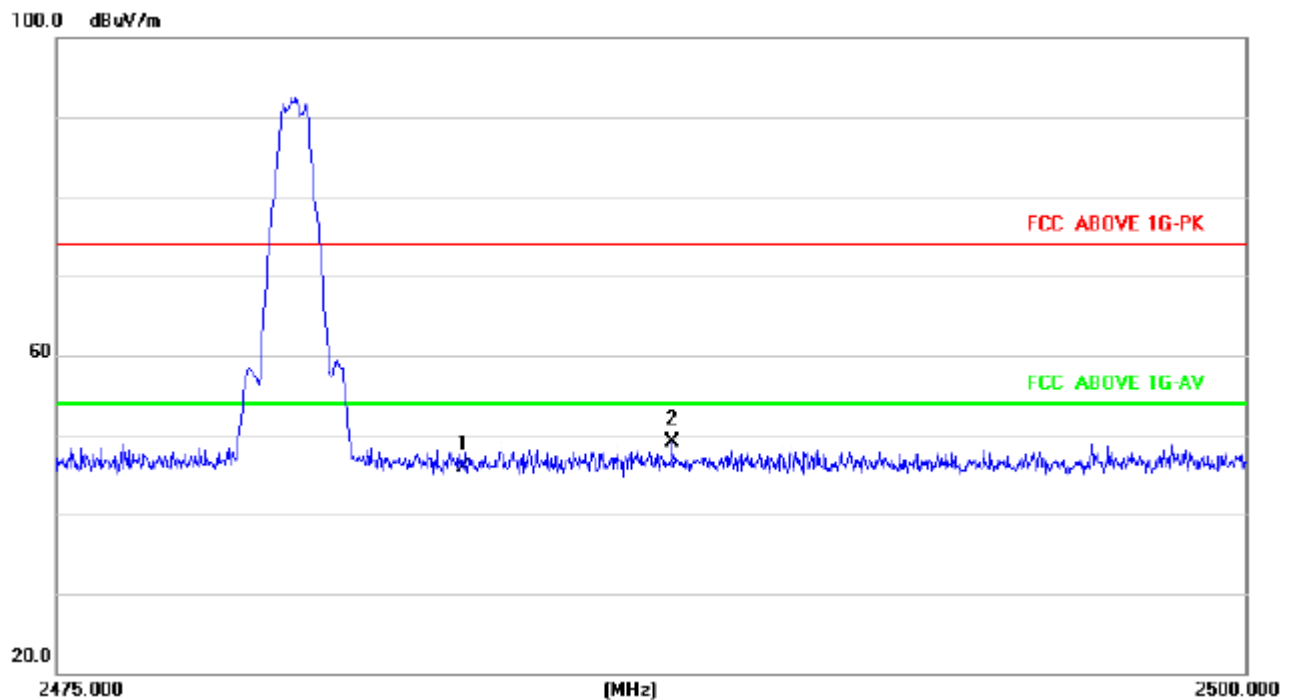




2480MHz Horizontal



2480MHz Vertical





6. ANTENNA REQUIREMENT

6.1 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.

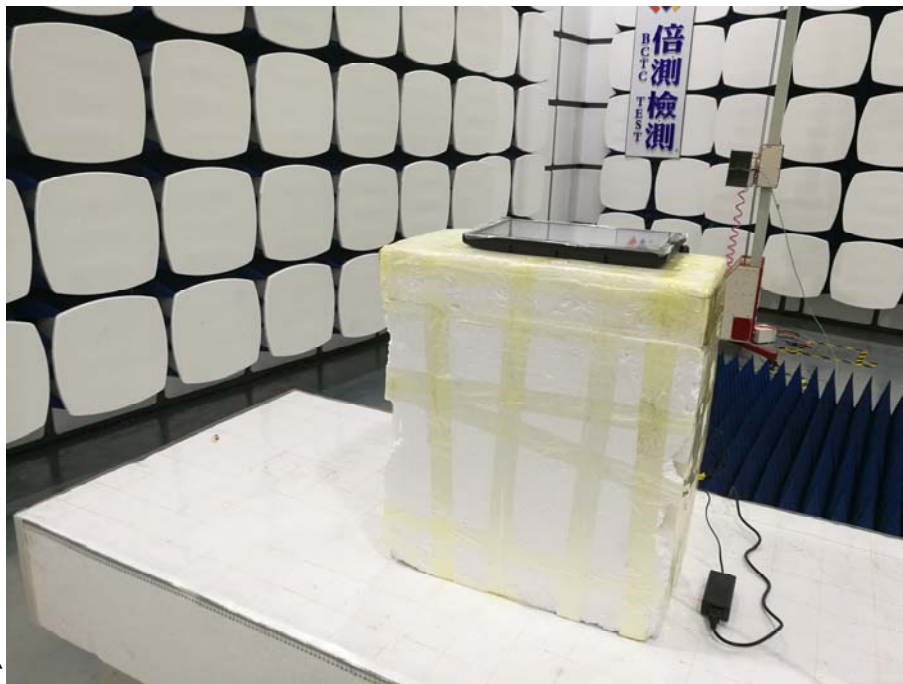
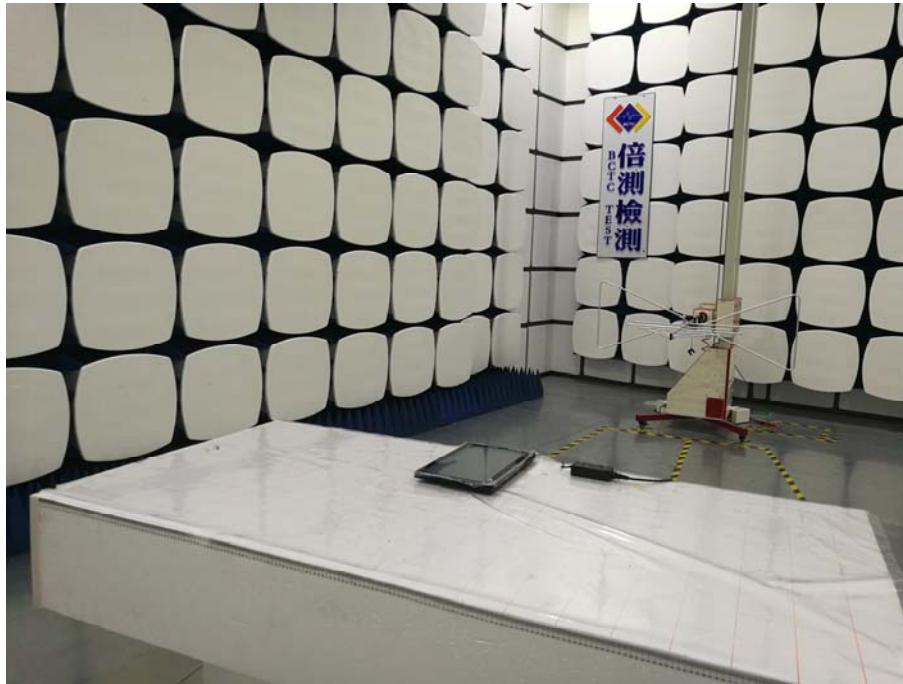
6.2 EUT ANTENNA

The EUT antenna is FPCB antenna. It complies with the standard requirement.



7. EUT TEST PHOTO

Radiated Measurement Photos





Conducted Measurement Photos





8. EUT PHOTO



***** END OF REPORT *****