



FCC RADIO TEST REPORT

Applicant : JING SI PURELAND CO., LTD.

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Rd., Da'an Dist., Taipei City 10653, Taiwan (R.O.C.)

Equipment : Digital Media Player(Bluetooth)

Model No. : JST-DMP-BT-01

Trade Name : Jing Si 6R Technology

FCC ID : 2A645-JSTDMPBT01

I HEREBY CERTIFY THAT :

The sample was received on Dec. 28, 2021 and the testing was completed on Feb. 05, 2022 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory





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**History of this test report**

Report No.	Issued Date	Description
21120276-TRFCC01	Feb. 11, 2022	Original
21120276-TRFCC01-A	Jul. 05, 2022	1. Revise MPE report (Evaluation applied).



1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.247

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	PASS
15.207	. AC Power Line Conducted Emission	PASS
15.209 15.205	. Radiated Spurious Emission	PASS
15.247(d)	. Conducted Spurious Emission	PASS
15.247(a)(1)	. Channel Carrier Frequencies Separation	PASS
15.247(a)(1)	. 20dB Bandwidth	PASS
15.247(a)(1)	. Dwell Time	PASS
15.247(b)	. Number of Hopping Channels	PASS
15.247(b)	. Peak Output Power Measurement Data	PASS
2.1093	. Radio Frequency Exposure	PASS

* The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement.

*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(21120276-TEFV01).



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Operation Frequency Range	2400-2483.5MHz
Center Frequency Range	2402-2480MHz
Modulation Type	GFSK, $\pi/4$ -DQPSK
Modulation Technology	FHSS
Data Rate	GFSK: 1Mbps, $\pi/4$ -DQPSK: 2Mbps
Antenna Type	Chip Antenna
Antenna Gain	2400-2483.5MHz: 2.50dBi

Note: For more details, please refer to the User's manual of the EUT.



2.2 Carrier Frequency of Channes

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

Note: Channels remarked * are selected to perform test.



2.3 Test Mode & Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.10
- The complete test system included Notebook and EUT for RF test.
- An executive program, " FCCAssist ver.2.4" under Windows OS system was executed to transmit and receive data via Bluetooth.
- The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	GFSK (1Mbps)
2	$\pi/4$ -DQPSK (2Mbps)
caused "Test Mode 1" generated the worst case, it was reported as the final data.	
Radiation Emissions (9KHz ~ 30MHz and 30MHz ~ 1GHz)	
Test Mode	Operating Description
1	GFSK (1Mbps)
2	$\pi/4$ -DQPSK (2Mbps)
caused "Test Mode 1" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	GFSK (1Mbps)
2	$\pi/4$ -DQPSK (2Mbps)
caused "Test Mode 1, 2" generated the worst case, they were reported as the final data.	

Note:

- There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.
For AC Power Line Conducted Emission, and Radiated Spurious Emission(9KHz ~30MHz & 30MHz ~ 1GHz), AC 120V / 60Hz is worst case.

Modulation Type	TX CONFIGURATION
GFSK	1TX
$\pi/4$ -DQPSK	1TX



2.4 Description of Test System

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
testfixture	N/A	CH340	0.4m / NS	N/A
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
testfixture	N/A	CH340	0.4m / NS	N/A
MicroSDHC	ADATA	8G	N/A	N/A
Audio Cable	Cable Serise	3.5 AUX to 3.5 AUX	1.8m / NS	N/A
Micro USB	kolin	KEX-DLCP07	1m / NS	N/A
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
testfixture	N/A	CH340	0.4m / NS	N/A
MicroSDHC	ADATA	8G	N/A	N/A
Audio Cable	Cable Serise	3.5 AUX to 3.5 AUX	1.8m / NS	N/A
Micro USB	kolin	KEX-DLCP07	1m / NS	N/A



2.5 General Information of Test

Test Site	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881	
	FCC	TW1439, TW1079
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 25,000MHz	
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.	

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2022/01/26	24℃ / 49%	Dian Chen
Radiated Emissions	3M02-NK	2022/01/27~2022/02/05	19~26℃ / 48~50%	Dian Chen
AC Power Line Conducted Emission	CON01-NK	2022/02/04	20℃ / 60%	Dian Chen

2.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.12dB
Radiated Spurious Emission(9KHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.6dB
Radiated Spurious Emission(1GHz~25GHz)	±6.6dB
Conducted Spurious Emission	±1.8dB
6dB Bandwidth	±4.4%
20dB Bandwidth	±4.4%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.1dB
Dwell Time / Deactivation Time	±1.2%
Power Spectral Density	±1.8dB
Duty Cycle	±1.2%



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	275	2021/11/05	2022/11/04
Active Loop Antenna	EMCO	6507	40855	2021/06/10	2022/06/09
Horn Antenna	EMCO	3115	31601	2021/10/14	2022/10/13
Horn Antenna	EMCO	3116	31970	2021/03/29	2022/03/28
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2021/06/30	2022/06/29
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2021/08/06	2022/08/05
Preamplifier	EM Electronics corp.	EM330	60658	2021/10/13	2022/10/12
Preamplifier	Agilent	8449B	3008A01954	2021/03/22	2022/03/21
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2021/11/16	2022/11/15
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2021/04/12	2022/04/11
Cable-0.5m(1G-18G)	EMEC	EM104-SMSM-0.5M	CCE1354	2021/05/06	2022/05/05
Cable-3m(1G-18G)	EMEC	EM104-SMSM-3M	CCE1355	2021/05/06	2022/05/05
Cable-8m(1G-18G)	EMEC	EM104-SMSM-8M	CCE1356	2021/05/06	2022/05/05
Cable-0.5m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	28420/2	2021/04/03	2022/04/02
Cable-3m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	MY2608/2	2021/04/09	2022/04/08
Cable-0.5m(1G-40G)	Rapidtek	40GHZ 50CM	38MS-38MS50314	2021/04/08	2022/04/07
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130605	2021/09/22	2022/09/21
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2021/04/21	2022/04/20
Attenuator	KEYSIGHT	8491B	MY39250703	2021/04/09	2022/04/08
TEMP & HUMI CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2021/08/27	2022/08/26
Cable-0.5m(1G-26.5G)	HUBER SUHNER	SUCOFLEX 102	28422/2	2021/04/08	2022/04/07
Power Meter	Anritsu	ML2495A	1224005	2021/04/14	2022/04/13
Power Sensor	Anritsu	MA2411B	1207295	2021/04/14	2022/04/13
Switch Box	Theda	1-4	TW5451159	NA	NA
MXG-B RF Vector Signal Generator	KEYSIGHT	N5182B	MY53051383	2021/06/30	2022/06/29



Test Item	AC Power Line Conducted Emission				
Test Site	CON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESCI	101200	2021/08/30	2022/08/29
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-568	2021/06/02	2022/06/01
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2021/03/10	2022/03/09
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130606	2021/03/15	2022/03/14
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



4. Antenna Requirements

4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2 Antenna Construction and Directional Gain

Antenna Type	Chip Antenna
Antenna Gain	2.50 dBi



5. Test of AC Power Line Conducted Emission

5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2013. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

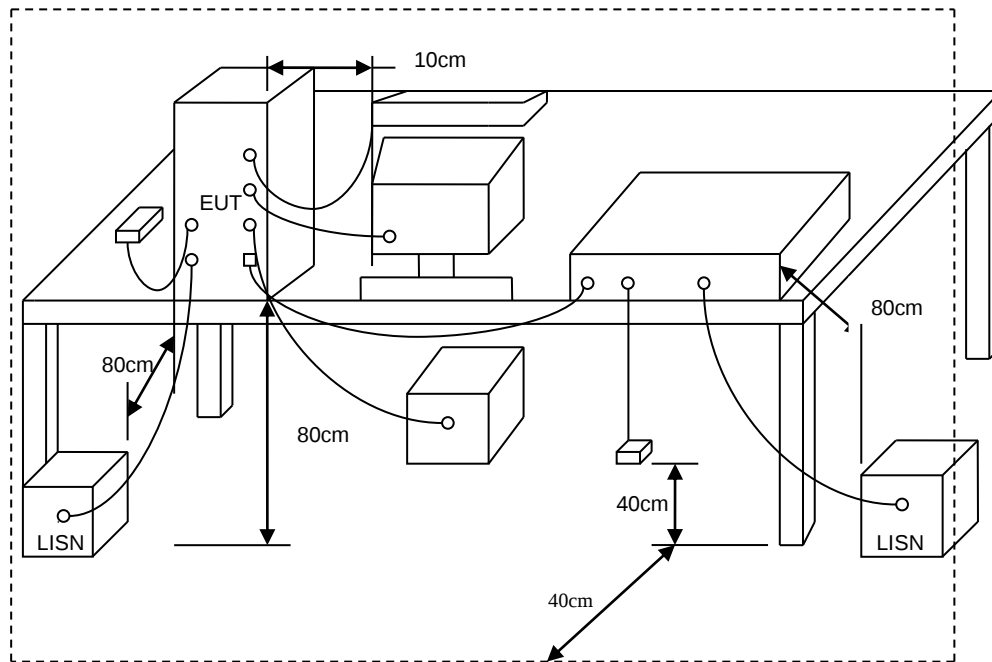
*Decreases with the logarithm of the frequency.

5.2 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



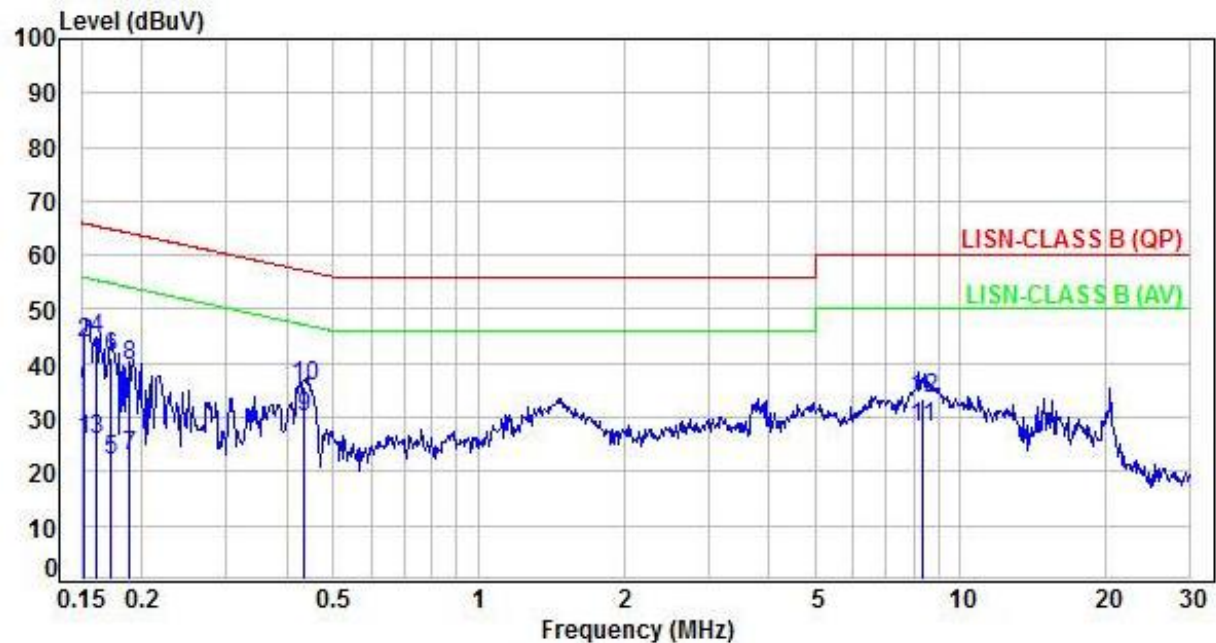
5.3 Typical Test Setup





5.4 Test Result and Data

Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	LINE
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	15.96	25.88	55.88	-30.00	Average	P
2	0.15	9.92	33.88	43.80	65.88	-22.08	QP	P
3	0.16	9.92	15.93	25.85	55.39	-29.54	Average	P
4	0.16	9.92	34.47	44.39	65.39	-21.00	QP	P
5	0.17	9.92	12.10	22.02	54.84	-32.82	Average	P
6	0.17	9.92	31.30	41.22	64.84	-23.62	QP	P
7	0.19	9.92	13.08	23.00	54.10	-31.10	Average	P
8	0.19	9.92	29.55	39.47	64.10	-24.63	QP	P
9	0.43	9.90	20.00	29.90	47.16	-17.26	Average	P
10	0.43	9.90	25.83	35.73	57.16	-21.43	QP	P
11	8.36	9.96	18.33	28.29	50.00	-21.71	Average	P
12	8.36	9.96	23.64	33.60	60.00	-26.40	QP	P

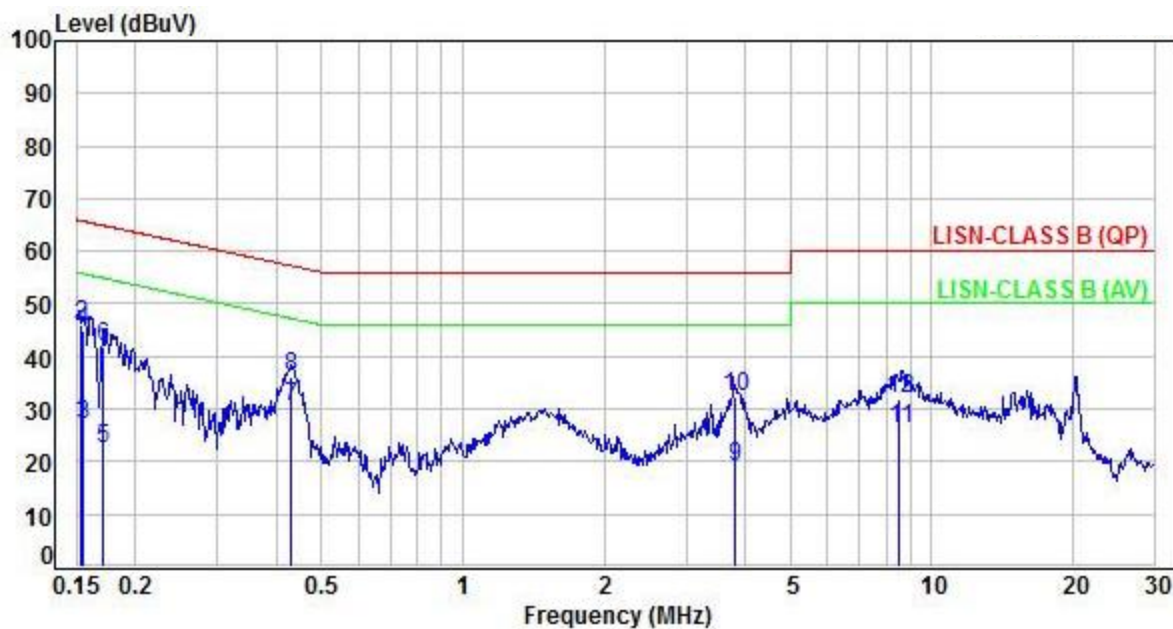
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	17.60	27.52	55.80	-28.28	Average	P
2	0.15	9.92	35.99	45.91	65.80	-19.89	QP	P
3	0.16	9.92	17.00	26.92	55.70	-28.78	Average	P
4	0.16	9.92	34.95	44.87	65.70	-20.83	QP	P
5	0.17	9.92	12.66	22.58	54.95	-32.37	Average	P
6	0.17	9.92	31.98	41.90	64.95	-23.05	QP	P
7	0.43	9.90	20.51	30.41	47.21	-16.80	Average	P
8	0.43	9.90	26.21	36.11	57.21	-21.10	QP	P
9	3.80	9.87	9.20	19.07	46.00	-26.93	Average	P
10	3.80	9.87	22.33	32.20	56.00	-23.80	QP	P
11	8.55	9.95	16.46	26.41	50.00	-23.59	Average	P
12	8.55	9.95	22.17	32.12	60.00	-27.88	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



6. Test of Radiated Spurious Emission

6.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/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



6.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

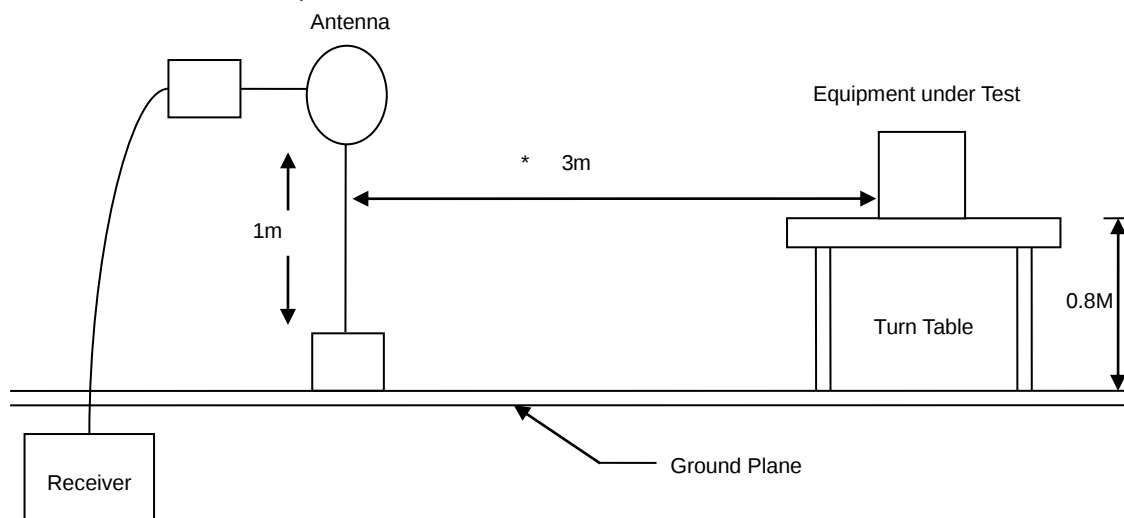
Note:

1. The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.
(Y-AXIS is the worst.)
2. Due to the test software function limit the operation band setting (200dBuV/m).
There's no corresponding limitation in the actual test item.

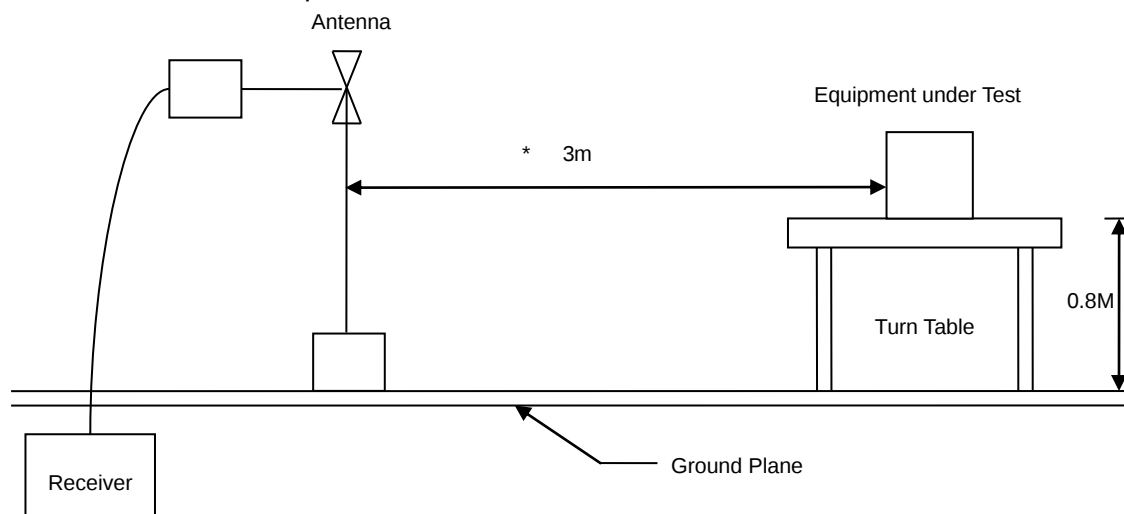


6.3 Typical Test Setup

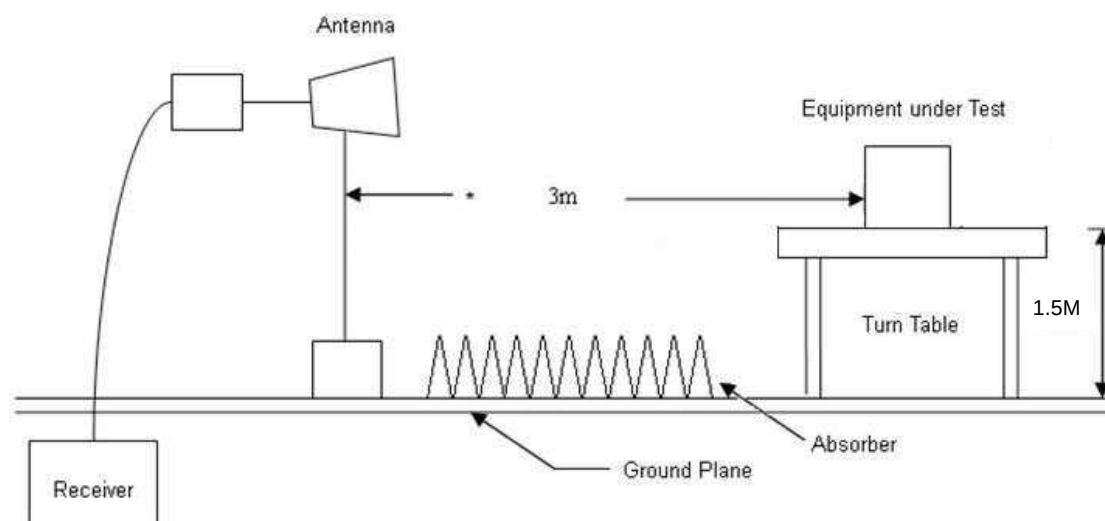
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



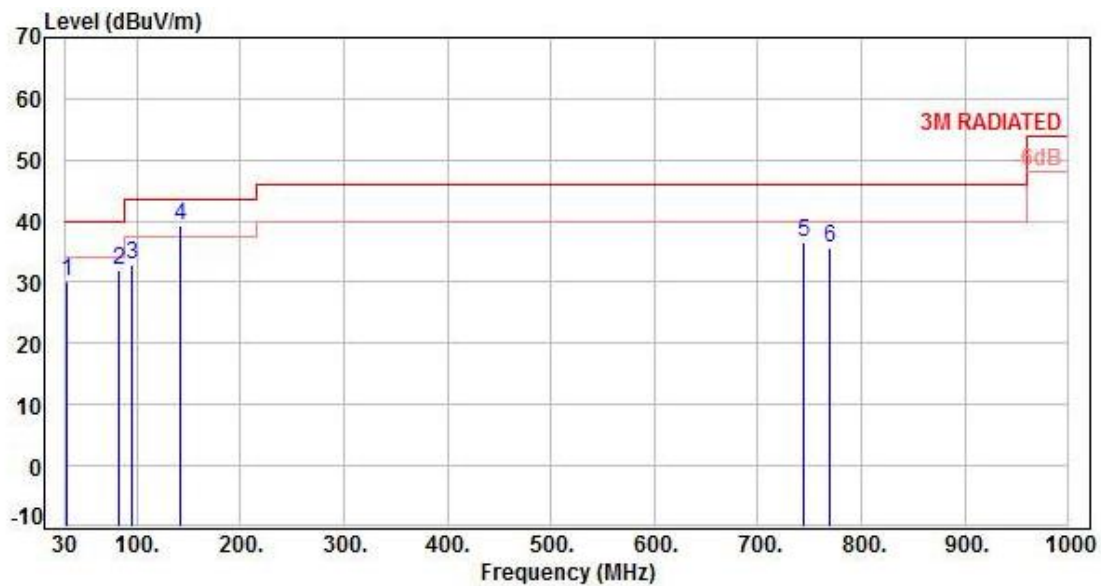


6.4 Test Result and Data (9kHz ~ 30MHz)

The 9kHz-30MHz spurious emission is under limit 20dB more.

6.5 Test Result and Data (30MHz ~ 1GHz)

Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	31.94	-12.14	42.40	30.26	40.00	-9.74	Peak	400	360	P
2	82.38	-16.26	48.37	32.11	40.00	-7.89	Peak	400	360	P
3	95.96	-16.04	48.94	32.90	43.50	-10.60	Peak	400	360	P
4	142.52	-11.82	51.00	39.18	43.50	-4.32	Peak	400	360	P
5	743.92	-0.63	37.03	36.40	46.00	-9.60	Peak	400	360	P
6	769.14	-0.04	35.61	35.57	46.00	-10.43	Peak	400	360	P

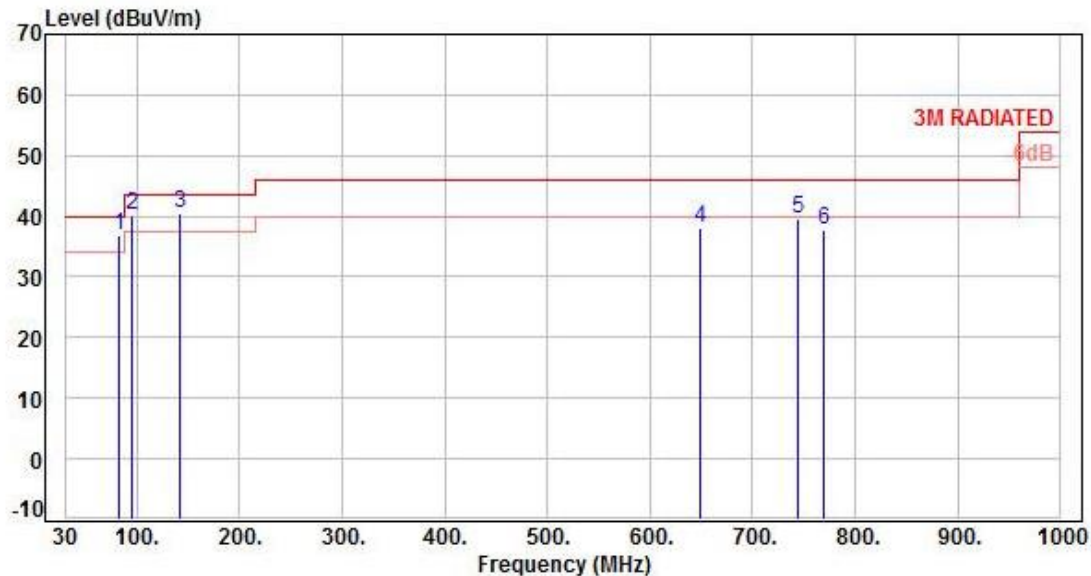
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	82.38	-16.26	53.16	36.90	40.00	-3.10	Peak	192	255	P
2	95.96	-16.04	56.37	40.33	43.50	-3.17	Peak	400	360	P
3	142.52	-11.82	52.25	40.43	43.50	-3.07	Peak	188	264	P
4	648.86	-2.16	40.20	38.04	46.00	-7.96	Peak	400	360	P
5	743.92	-0.63	40.09	39.46	46.00	-6.54	Peak	400	360	P
6	769.14	-0.04	37.83	37.79	46.00	-8.21	Peak	400	360	P

Note: Level=Reading+Factor

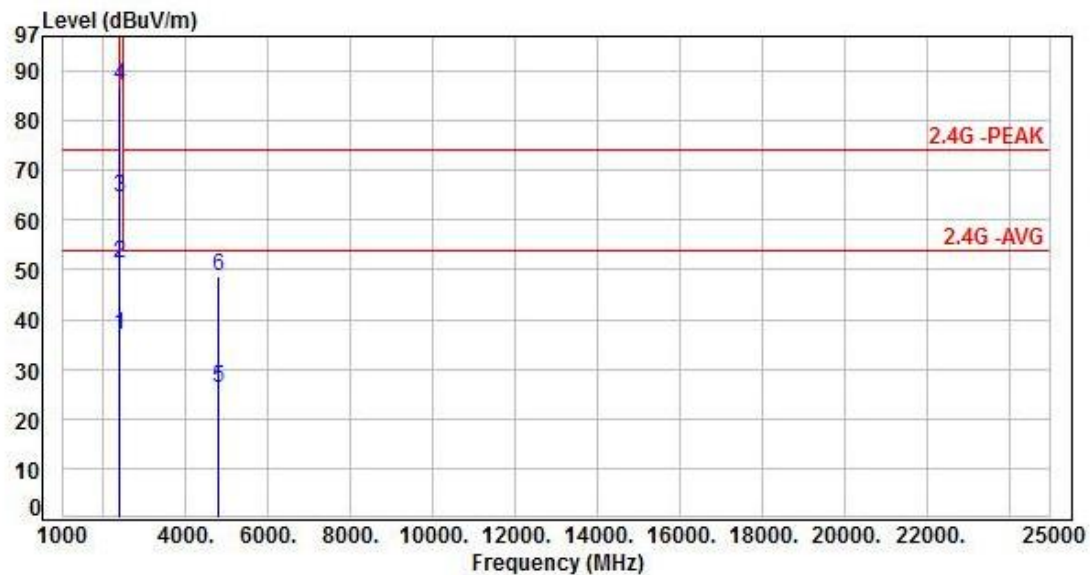
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



6.6 Test Result and Data (1GHz ~ 25GHz)

Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH00		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	40.47	36.93	54.00	-17.07	Average	312	221	P
2	2390.00	-3.54	54.72	51.18	74.00	-22.82	Peak	312	221	P
3	2402.00	-3.51	68.01	64.50	200.00	-135.50	Average	312	221	P
4	2402.00	-3.51	90.51	87.00	200.00	-113.00	Peak	312	221	P
5	4804.00	3.76	22.28	26.04	54.00	-27.96	Average	100	217	P
6	4804.00	3.76	44.78	48.54	74.00	-25.46	Peak	100	217	P

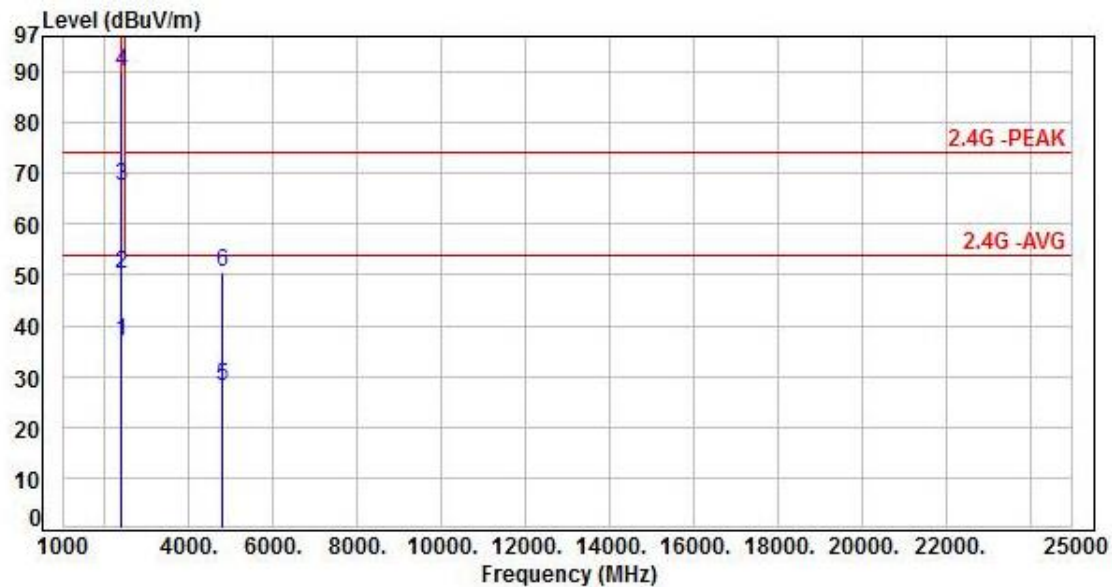
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH00		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	40.24	36.70	54.00	-17.30	Average	391	340	P
2	2390.00	-3.54	53.79	50.25	74.00	-23.75	Peak	391	340	P
3	2402.00	-3.51	71.03	67.52	200.00	-132.48	Average	391	340	P
4	2402.00	-3.51	93.53	90.02	200.00	-109.98	Peak	391	340	P
5	4804.00	3.76	24.34	28.10	54.00	-25.90	Average	100	314	P
6	4804.00	3.76	46.84	50.60	74.00	-23.40	Peak	100	314	P

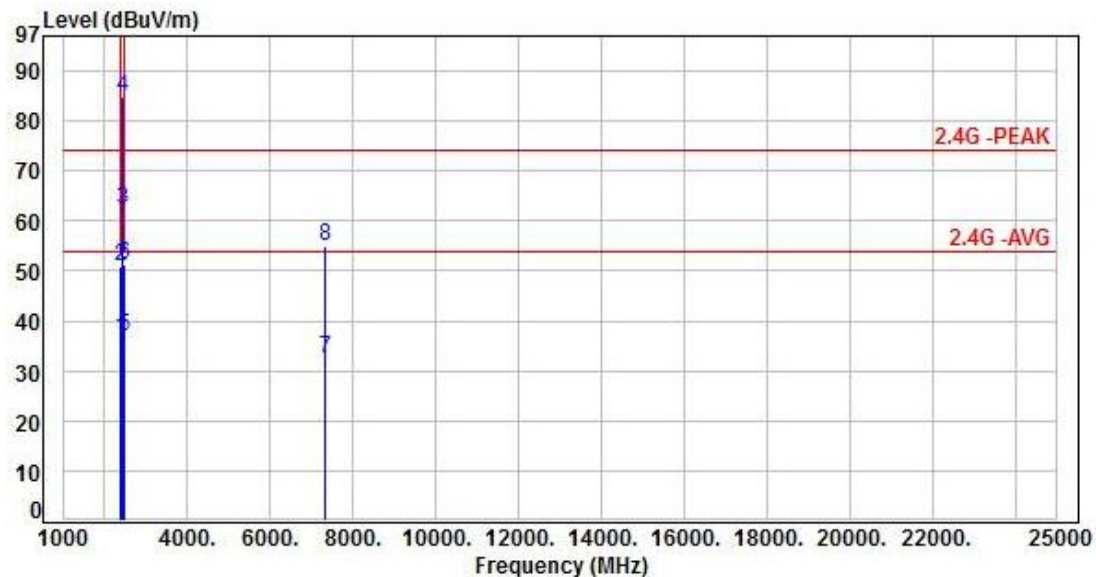
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH39		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	40.22	36.68	54.00	-17.32	Average	303	225	P
2	2390.00	-3.54	54.49	50.95	74.00	-23.05	Peak	303	225	P
3	2441.00	-3.47	65.64	62.17	200.00	-137.83	Average	303	225	P
4	2441.00	-3.47	88.14	84.67	200.00	-115.33	Peak	303	225	P
5	2483.50	-3.30	40.33	37.03	54.00	-16.97	Average	303	225	P
6	2483.50	-3.30	54.46	51.16	74.00	-22.84	Peak	303	225	P
7	7323.00	8.62	23.67	32.29	54.00	-21.71	Average	100	214	P
8	7323.00	8.62	46.17	54.79	74.00	-19.21	Peak	100	214	P

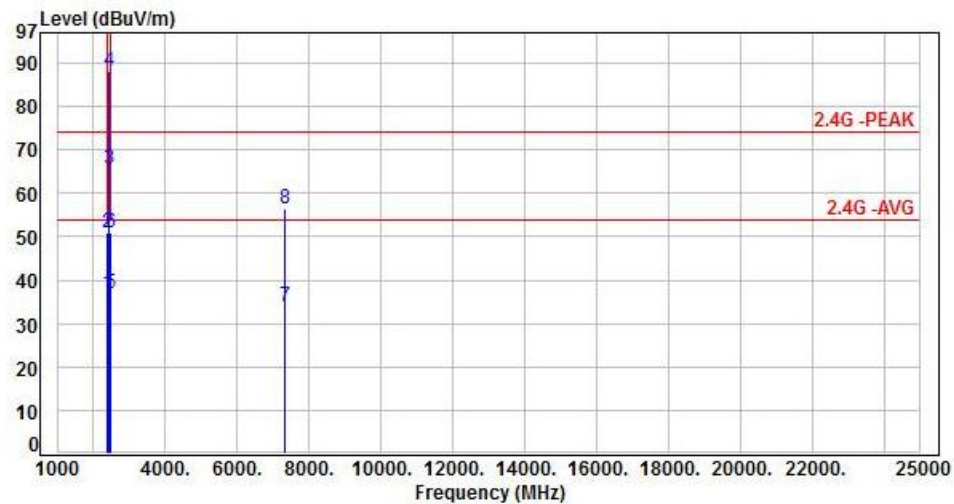
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH39		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	40.30	36.76	54.00	-17.24	Average	381	338	P
2	2390.00	-3.54	54.52	50.98	74.00	-23.02	Peak	381	338	P
3	2441.00	-3.47	69.10	65.63	200.00	-134.37	Average	381	338	P
4	2441.00	-3.47	91.60	88.13	200.00	-111.87	Peak	381	338	P
5	2483.50	-3.30	40.27	36.97	54.00	-17.03	Average	381	338	P
6	2483.50	-3.30	54.24	50.94	74.00	-23.06	Peak	381	338	P
7	7323.00	8.62	25.42	34.04	54.00	-19.96	Average	100	271	P
8	7323.00	8.62	47.92	56.54	74.00	-17.46	Peak	100	271	P

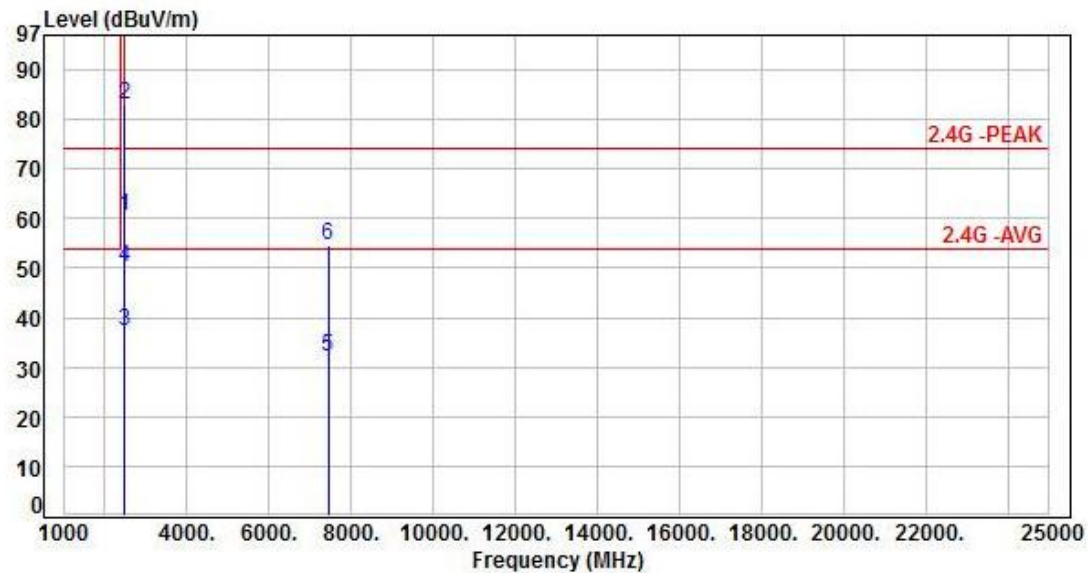
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH78		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-3.31	63.85	60.54	200.00	-139.46	Average	332	224	P
2	2480.00	-3.31	86.35	83.04	200.00	-116.96	Peak	332	224	P
3	2483.50	-3.30	40.58	37.28	54.00	-16.72	Average	332	224	P
4	2483.50	-3.30	53.46	50.16	74.00	-23.84	Peak	332	224	P
5	7440.00	8.79	23.19	31.98	54.00	-22.02	Average	100	214	P
6	7440.00	8.79	45.69	54.48	74.00	-19.52	Peak	100	214	P

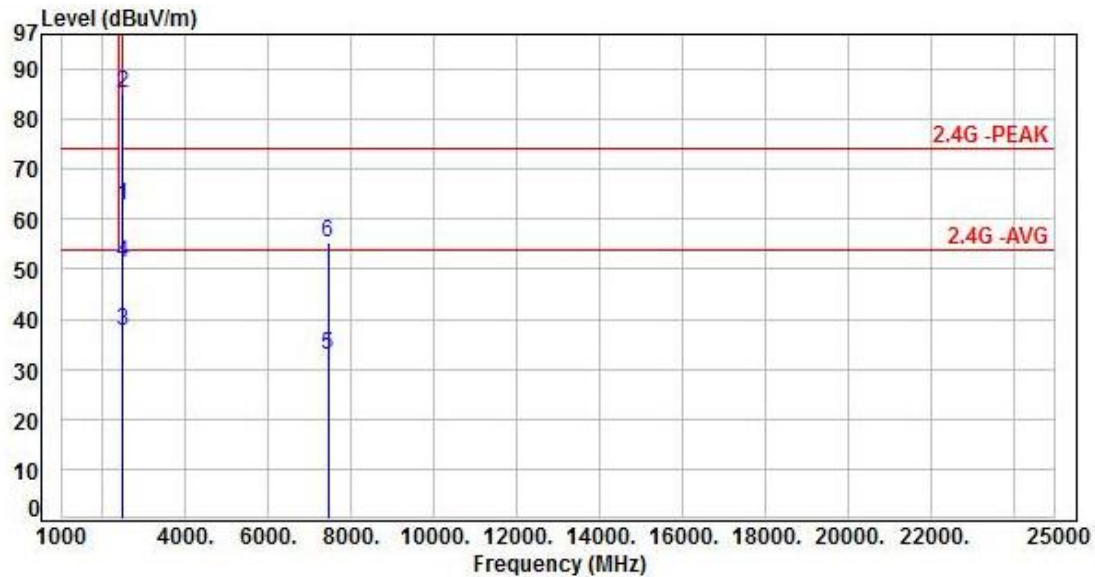
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH78		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-3.31	65.91	62.60	200.00	-137.40	Average	366	337	P
2	2480.00	-3.31	88.41	85.10	200.00	-114.90	Peak	366	337	P
3	2483.50	-3.30	40.93	37.63	54.00	-16.37	Average	366	337	P
4	2483.50	-3.30	54.48	51.18	74.00	-22.82	Peak	366	337	P
5	7440.00	8.79	23.94	32.73	54.00	-21.27	Average	100	277	P
6	7440.00	8.79	46.44	55.23	74.00	-18.77	Peak	100	277	P

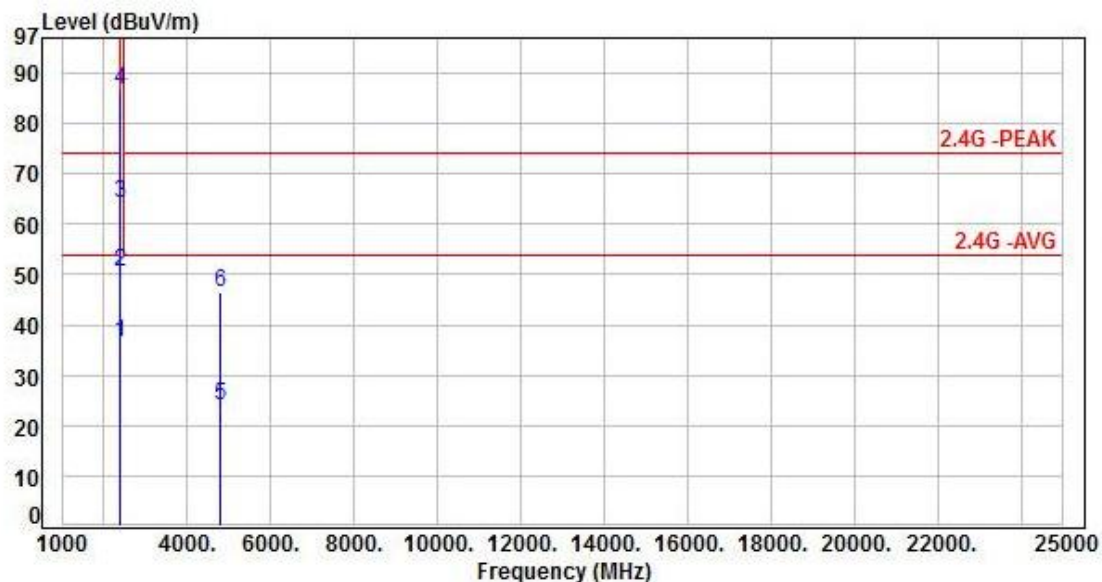
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH00		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	40.17	36.63	54.00	-17.37	Average	312	222	P
2	2390.00	-3.54	54.17	50.63	74.00	-23.37	Peak	312	222	P
3	2402.00	-3.51	67.80	64.29	200.00	-135.71	Average	312	222	P
4	2402.00	-3.51	90.30	86.79	200.00	-113.21	Peak	312	222	P
5	4804.00	3.76	20.07	23.83	54.00	-30.17	Average	100	219	P
6	4804.00	3.76	42.57	46.33	74.00	-27.67	Peak	100	219	P

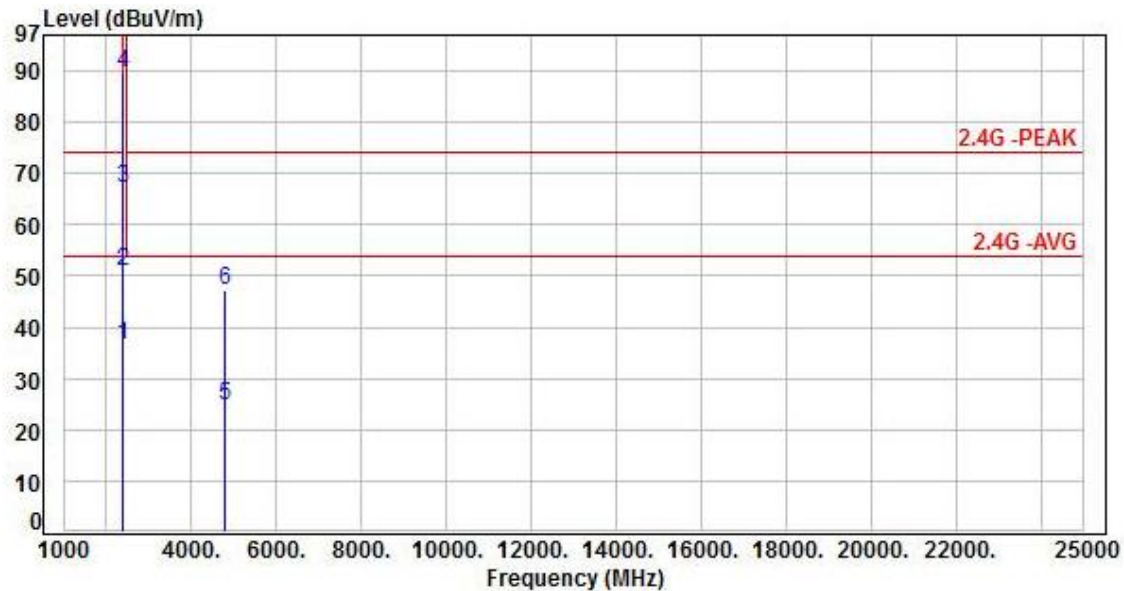
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH00		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	40.22	36.68	54.00	-17.32	Average	389	341	P
2	2390.00	-3.54	54.45	50.91	74.00	-23.09	Peak	389	341	P
3	2402.00	-3.51	70.81	67.30	200.00	-132.70	Average	389	341	P
4	2402.00	-3.51	93.31	89.80	200.00	-110.20	Peak	389	341	P
5	4804.00	3.76	21.08	24.84	54.00	-29.16	Average	100	316	P
6	4804.00	3.76	43.58	47.34	74.00	-26.66	Peak	100	316	P

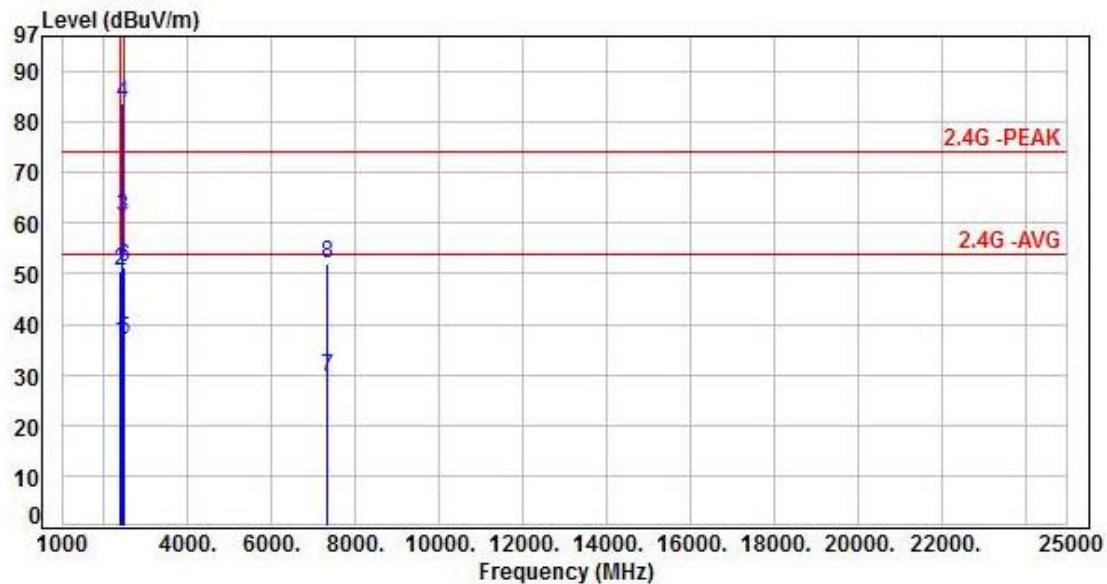
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH39		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	40.08	36.54	54.00	-17.46	Average	304	224	P
2	2390.00	-3.54	54.12	50.58	74.00	-23.42	Peak	304	224	P
3	2441.00	-3.47	64.66	61.19	200.00	-138.81	Average	304	224	P
4	2441.00	-3.47	87.16	83.69	200.00	-116.31	Peak	304	224	P
5	2483.50	-3.30	40.11	36.81	54.00	-17.19	Average	304	224	P
6	2483.50	-3.30	54.49	51.19	74.00	-22.81	Peak	304	224	P
7	7323.00	8.62	20.97	29.59	54.00	-24.41	Average	100	216	P
8	7323.00	8.62	43.47	52.09	74.00	-21.91	Peak	100	216	P

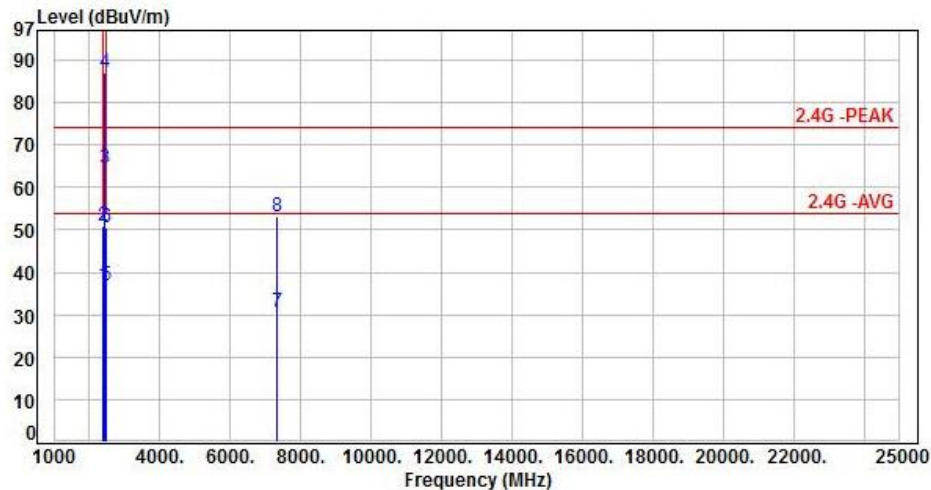
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH39		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	40.26	36.72	54.00	-17.28	Average	372	351	P
2	2390.00	-3.54	54.46	50.92	74.00	-23.08	Peak	372	351	P
3	2441.00	-3.47	68.10	64.63	200.00	-135.37	Average	372	351	P
4	2441.00	-3.47	90.60	87.13	200.00	-112.87	Peak	372	351	P
5	2483.50	-3.30	40.31	37.01	54.00	-16.99	Average	372	351	P
6	2483.50	-3.30	53.82	50.52	74.00	-23.48	Peak	372	351	P
7	7323.00	8.62	21.87	30.49	54.00	-23.51	Average	100	272	P
8	7323.00	8.62	44.37	52.99	74.00	-21.01	Peak	100	272	P

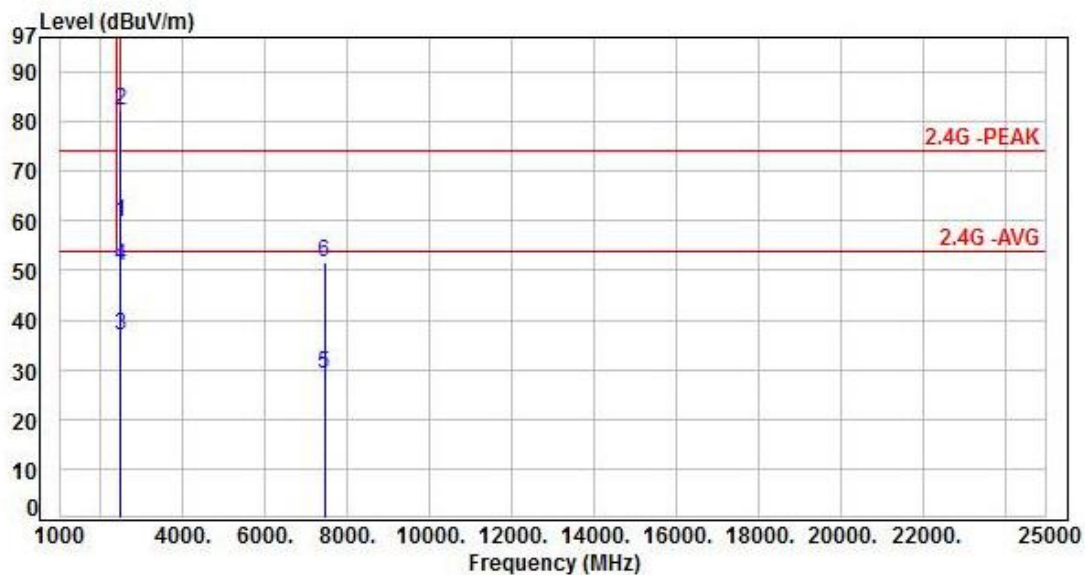
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH78		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-3.31	63.23	59.92	200.00	-140.08	Average	332	224	P
2	2480.00	-3.31	85.73	82.42	200.00	-117.58	Peak	332	224	P
3	2483.50	-3.30	40.23	36.93	54.00	-17.07	Average	332	224	P
4	2483.50	-3.30	54.10	50.80	74.00	-23.20	Peak	332	224	P
5	7440.00	8.79	20.34	29.13	54.00	-24.87	Average	100	213	P
6	7440.00	8.79	42.84	51.63	74.00	-22.37	Peak	100	213	P

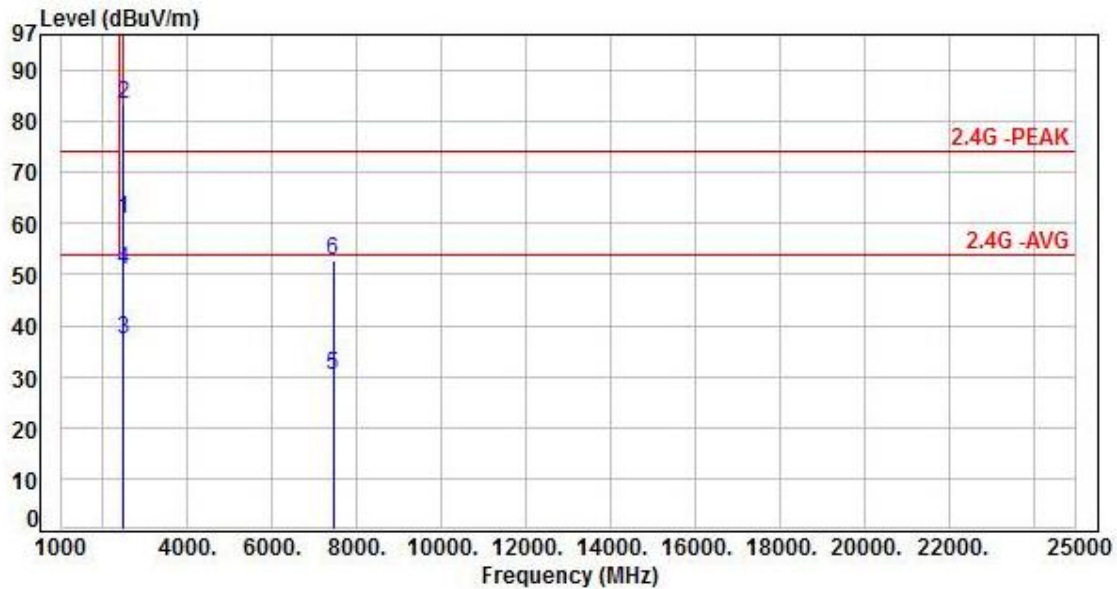
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 5V Form System (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH78		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-3.31	64.18	60.87	200.00	-139.13	Average	284	312	P
2	2480.00	-3.31	86.68	83.37	200.00	-116.63	Peak	284	312	P
3	2483.50	-3.30	40.37	37.07	54.00	-16.93	Average	284	312	P
4	2483.50	-3.30	54.18	50.88	74.00	-23.12	Peak	284	312	P
5	7440.00	8.79	21.32	30.11	54.00	-23.89	Average	100	274	P
6	7440.00	8.79	43.82	52.61	74.00	-21.39	Peak	100	274	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



7. Test of Conducted Spurious Emission

7.1 Test Limit

According to the methods defined in ANSI C63.10-2013 Section 7.8.8

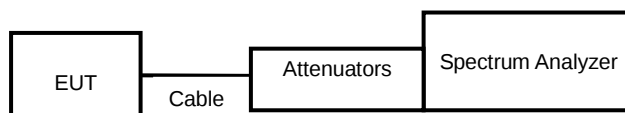
Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

7.2 Test Procedure

According to the methods defined in ANSI C63.10-2013

- The transmitter output was connected to the spectrum analyzer via a low loss cable.
- Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- The band edges was measured and recorded.

7.3 Test Setup Layout

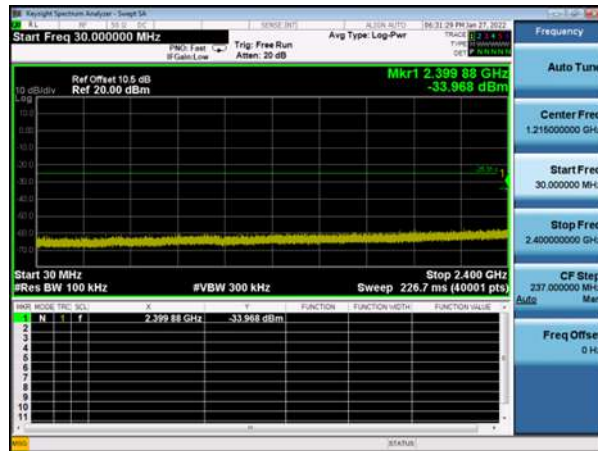


7.4 Test Result and Data

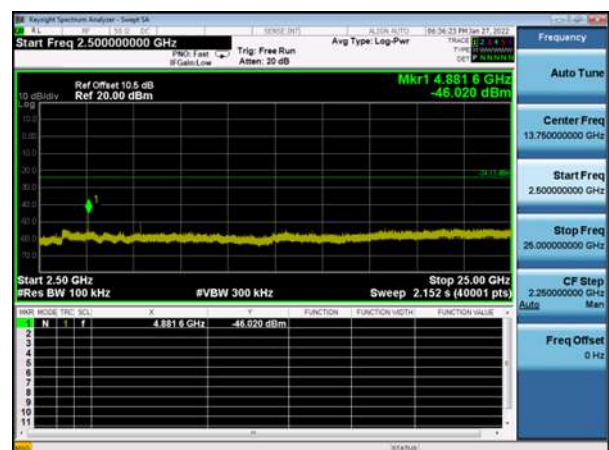
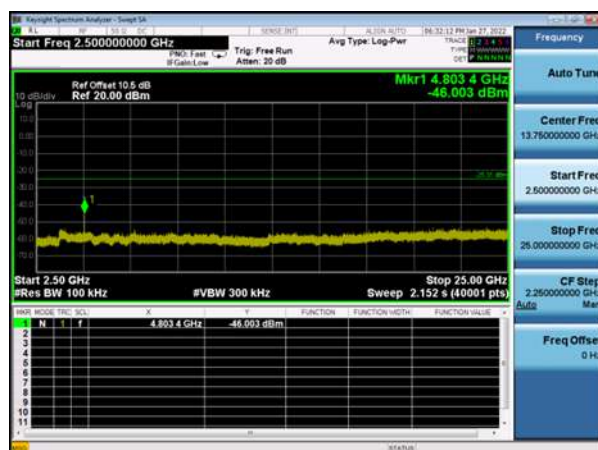
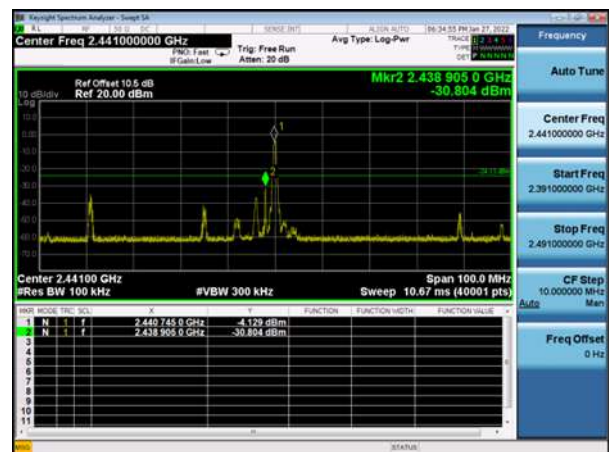
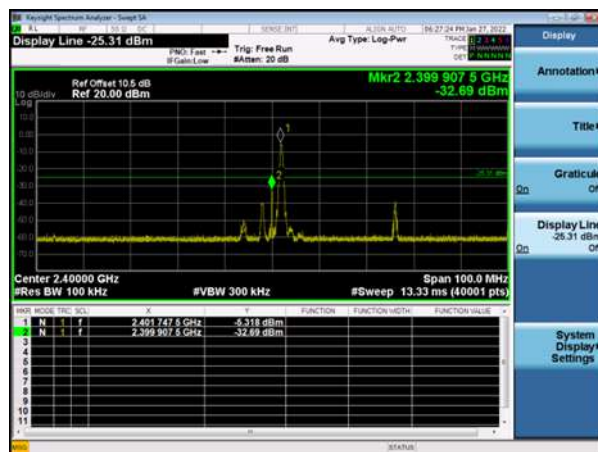
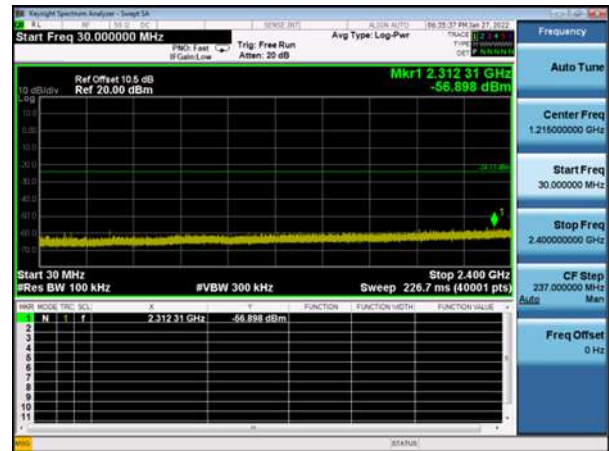
Note: Test plots refer to the following pages.



Modulation Type: GFSK (1Mbps)
Channel: 00

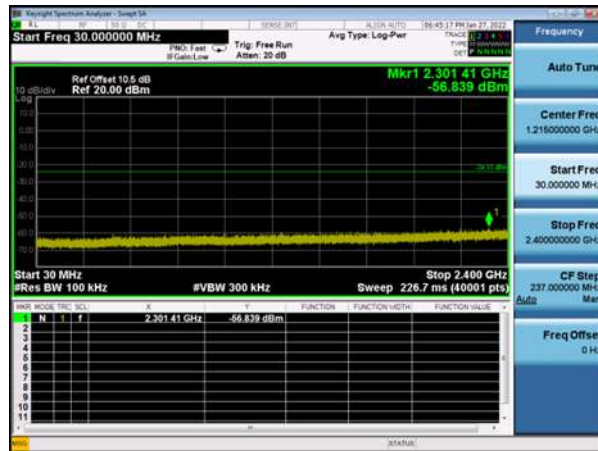


Modulation Type: GFSK (1Mbps)
Channel: 39

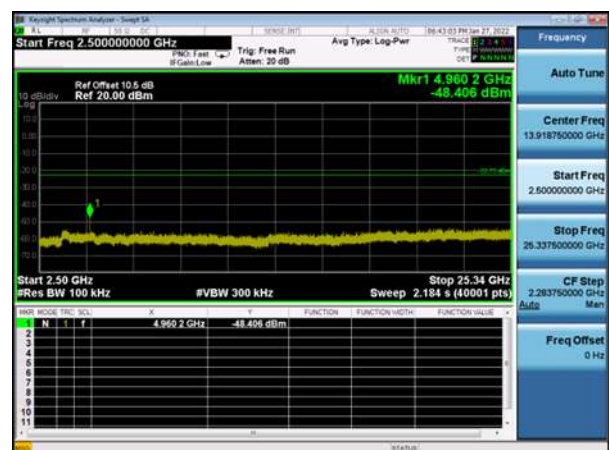
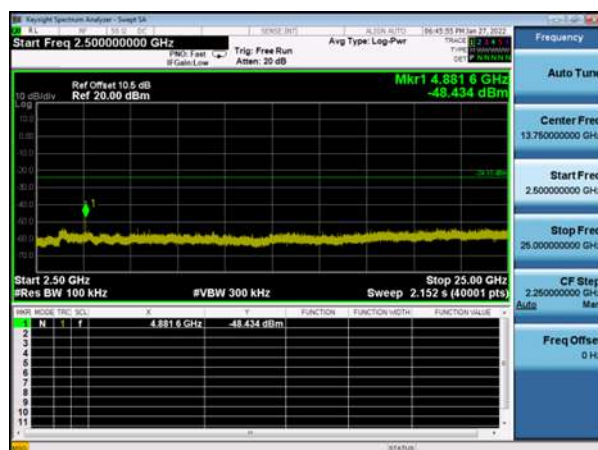
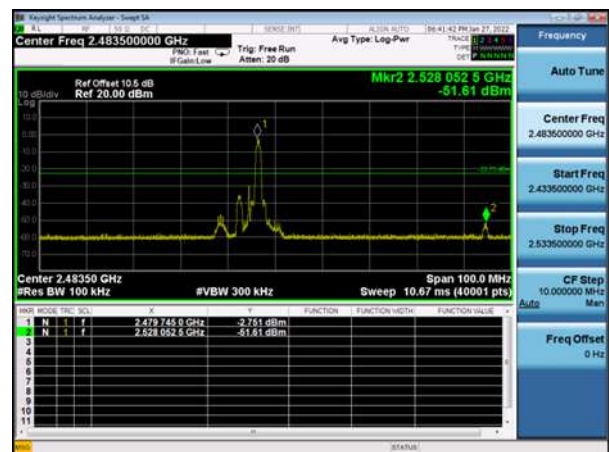
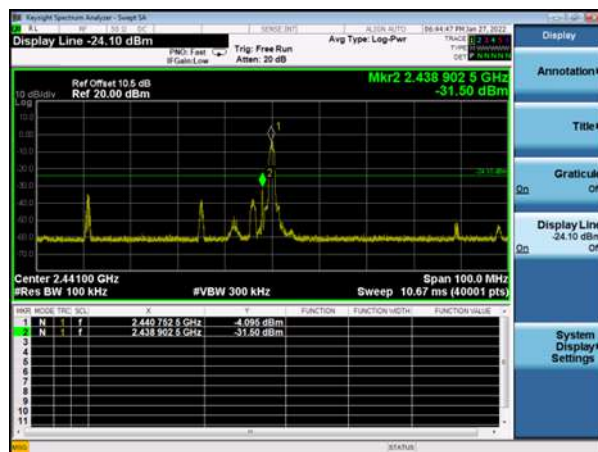
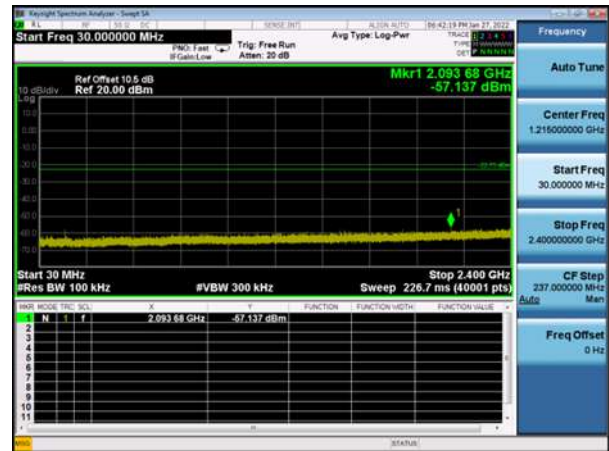




Modulation Type: $\pi/4$ -DQPSK (2Mbps)
Channel: 39

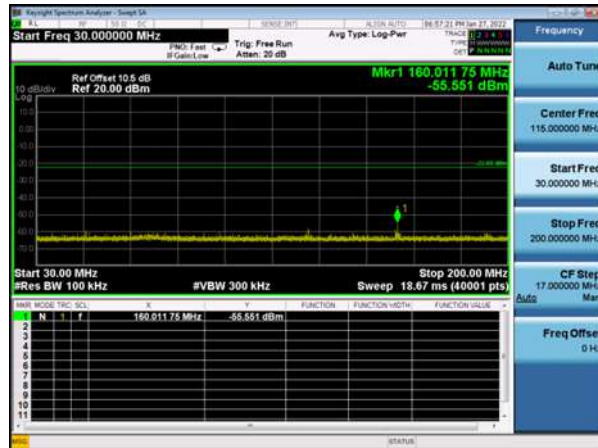


Modulation Type: $\pi/4$ -DQPSK (2Mbps)
Channel: 78

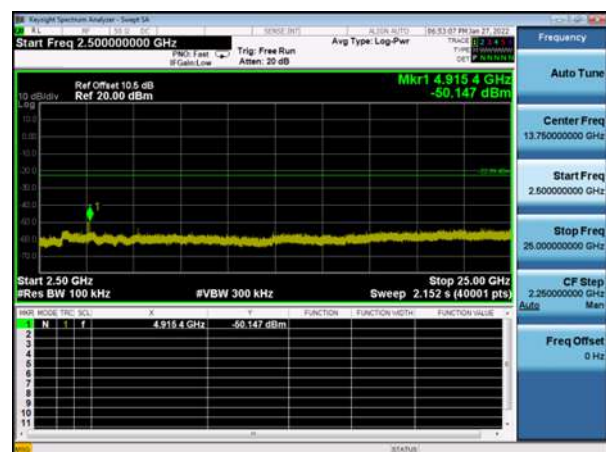
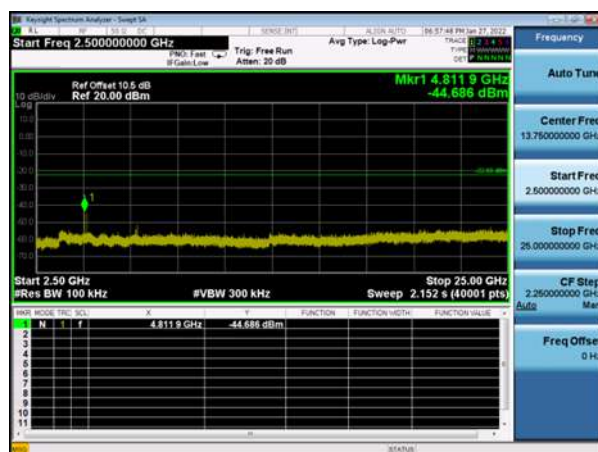
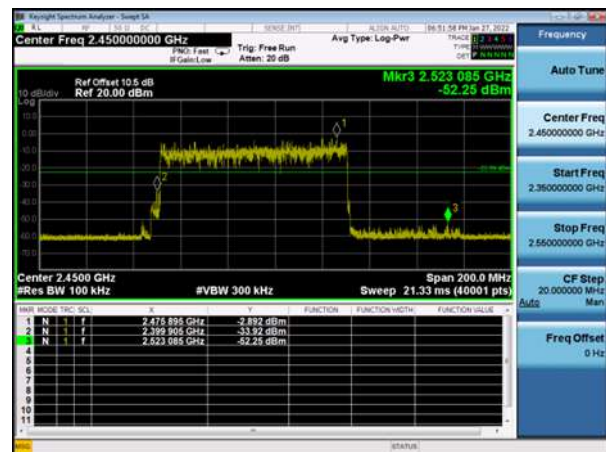
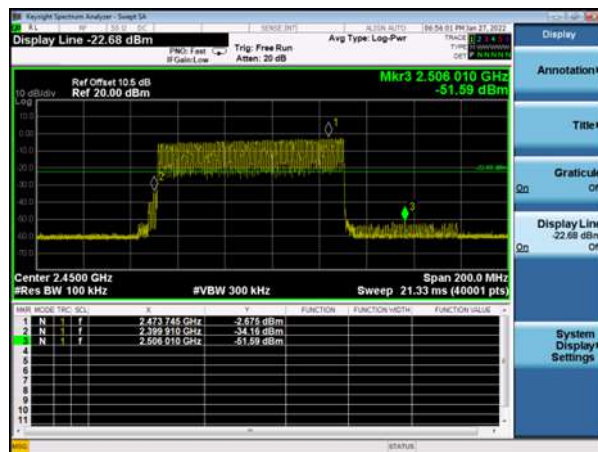
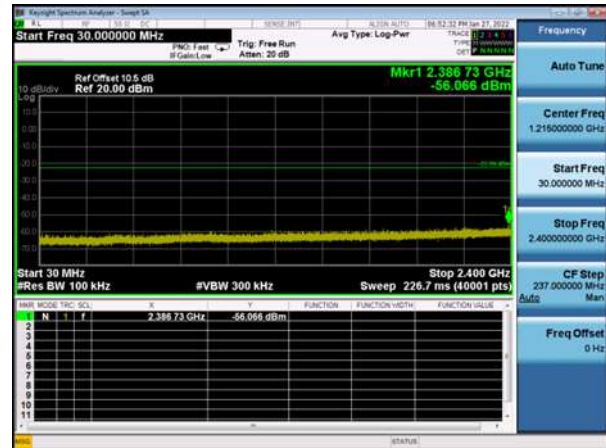




Hopping Mode:
Modulation Type: GFSK



Modulation Type: $\pi/4$ -DQPSK





8. 20dB Bandwidth Measurement Data

8.1 Test Limit

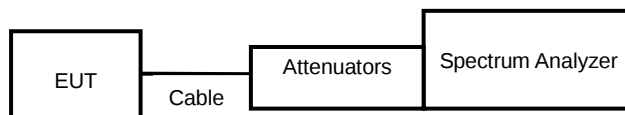
For reference data.

8.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 6.9

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 1~5% of the 20dB bandwidth and VBW to approximately three time RBW..
- The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

8.3 Test Setup Layout



**8.4 Test Result and Data**

Modulation Type	Channel	Frequency (MHz)	20dB Bandwidth (MHz)	2/3 20dB Bandwidth (MHz)
GFSK	0	2402	0.950	0.633
	39	2441	0.950	0.633
	78	2480	0.951	0.634
$\pi/4$ -DQPSK	0	2402	1.307	0.871
	39	2441	1.307	0.871
	78	2480	1.309	0.873



Modulation Type: GFSK (1Mbps)
Channel: 00



CH39

Modulation Type: $\pi/4$ -DQPSK (2Mbps)
Channel: 00



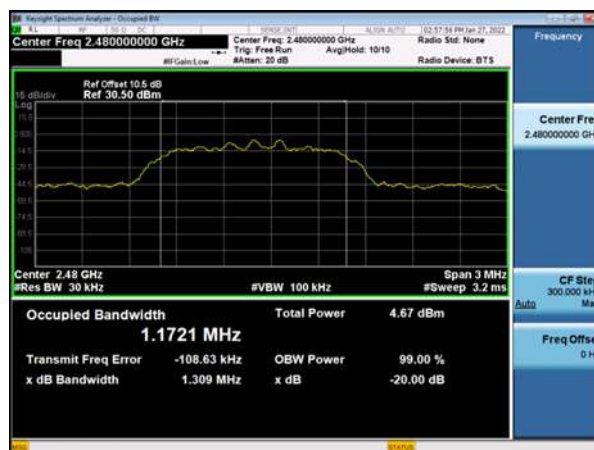
CH39



CH78



CH78





9. Carrier Frequency Separation

9.1 Test Limit

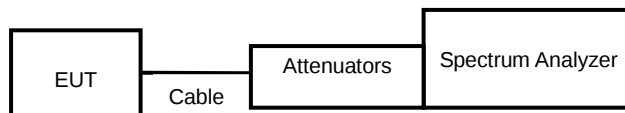
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 7.8.2

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 300 KHz and VBW to 1000 KHz.
- By using the MaxHold function record the separation of two adjacent channels.
- Measure the frequency difference of these two adjacent channels.

9.3 Test Setup Layout



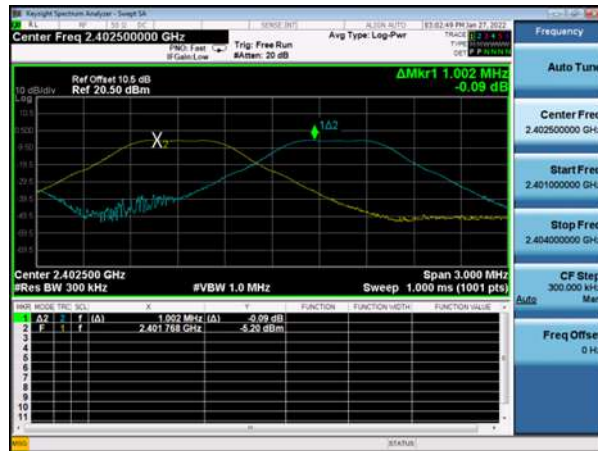


9.4 Test Result and Data

Modulation Type	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
GFSK	0	2402	1.002	0.633
	39	2441	1.002	0.633
	78	2480	1.002	0.634
$\pi/4$ -DQPSK	0	2402	1.002	0.871
	39	2441	1.002	0.871
	78	2480	1.002	0.873

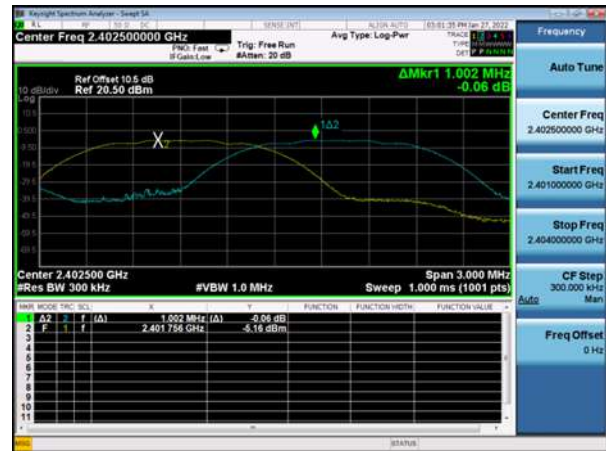


Modulation Type: GFSK (1Mbps)
Channel: 00

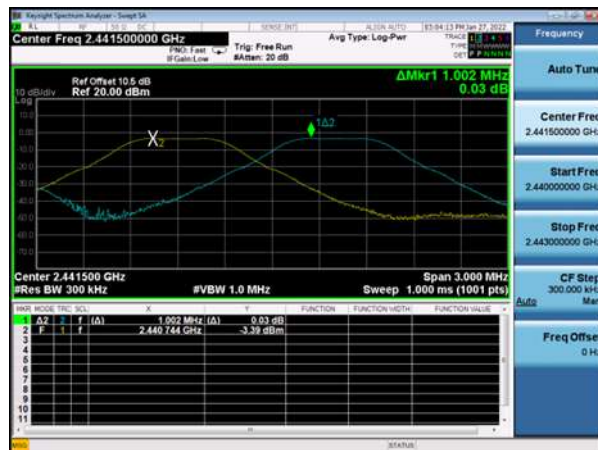


CH39

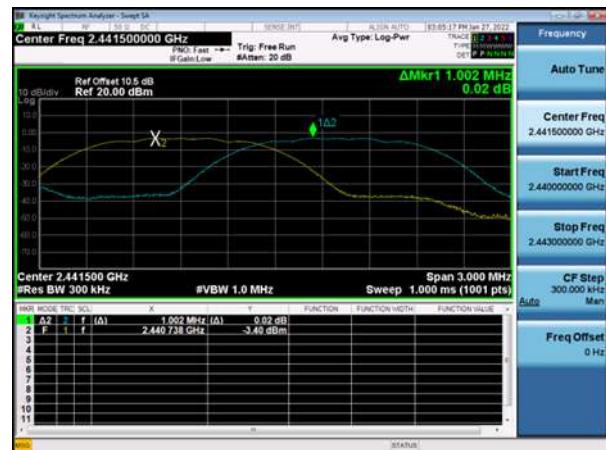
Modulation Type: $\pi/4$ -DQPSK (2Mbps)
Channel: 00



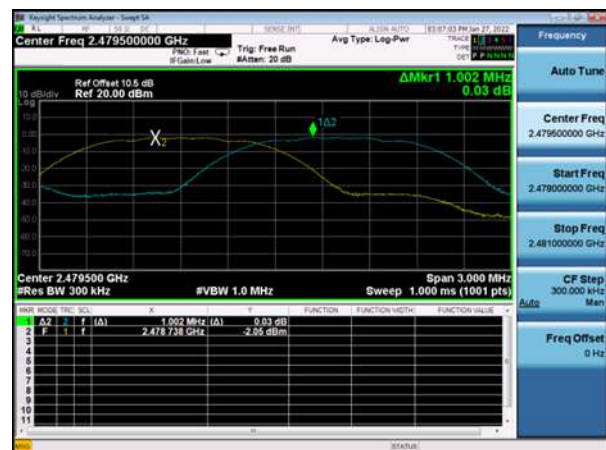
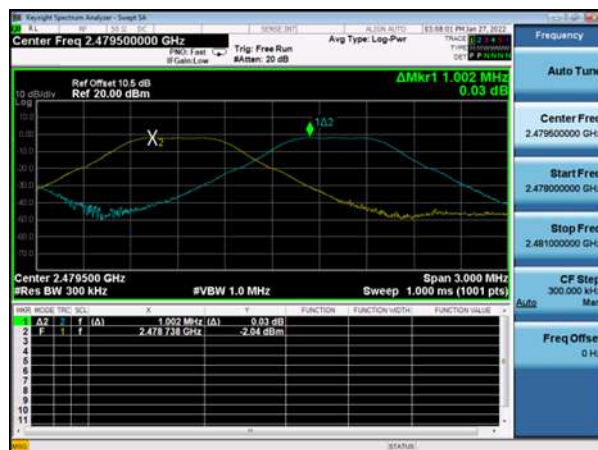
CH39



CH78



CH78





10. Dwell Time on each channel

10.1 Test Limit

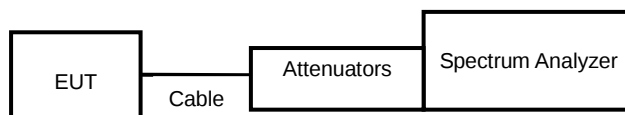
The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

10.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 7.8.4

1. The transmitter output was connected to the spectrum analyzer.
2. Adjust the center frequency to measure frequency, then set zero span mode.
2. Set RBW of spectrum analyzer to 1 MHz and VBW to 1 MHz.
4. Measure the time duration of one transmission on the measured frequency.

10.3 Test Setup Layout





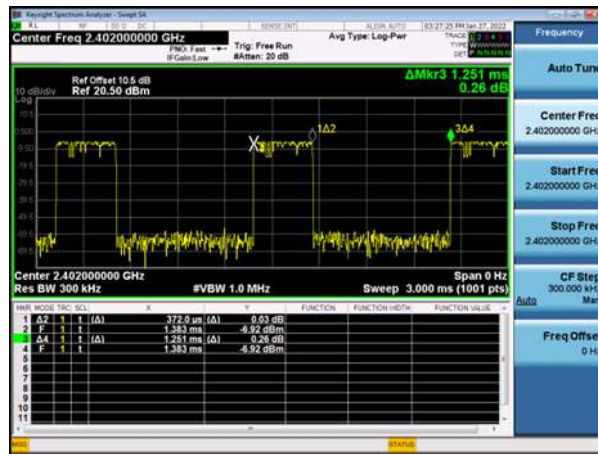
10.4 Test Result and Data

Modulation Type	Frequency (MHz)	Length of transmission time (ms)	Number of transmission in a 31.6 (79 Hopping*0.4)	Dwell Time (ms)	Limit (ms)
GFSK-DH1	2402	0.372	320.00	119.04	400
GFSK-DH3	2402	1.620	160.00	259.20	400
GFSK-DH5	2402	2.865	106.67	305.60	400
$\pi/4$ -DQPSK-DH1	2402	0.384	320.00	122.88	400
$\pi/4$ -DQPSK-DH3	2402	1.635	160.00	261.60	400
$\pi/4$ -DQPSK-DH5	2402	2.880	106.67	307.20	400

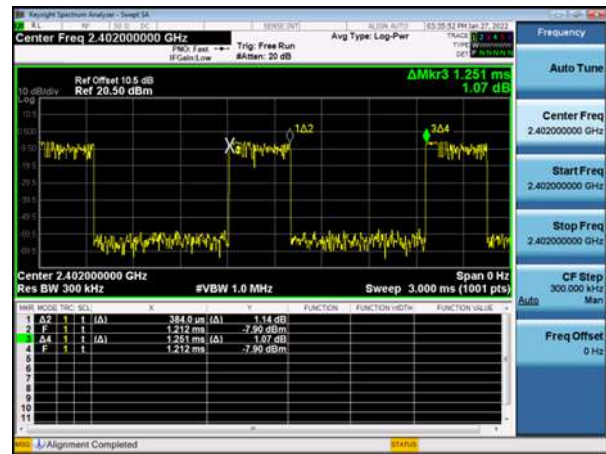
Modulation Type	Frequency (MHz)	Length of transmission time (ms)	Number of transmission in a 8 (20 Hopping*0.4)	Dwell Time (ms)	Limit (ms)
AFH-DH1	2402-2421	0.372	160.00	59.52	400
AFH-DH3	2402-2421	1.620	80.00	129.60	400
AFH-DH5	2402-2421	2.880	53.33	153.59	400



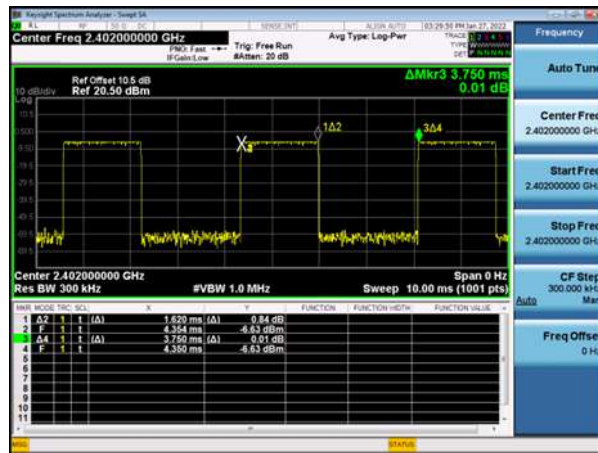
Modulation Type: GFSK-DH1
Channel: 00



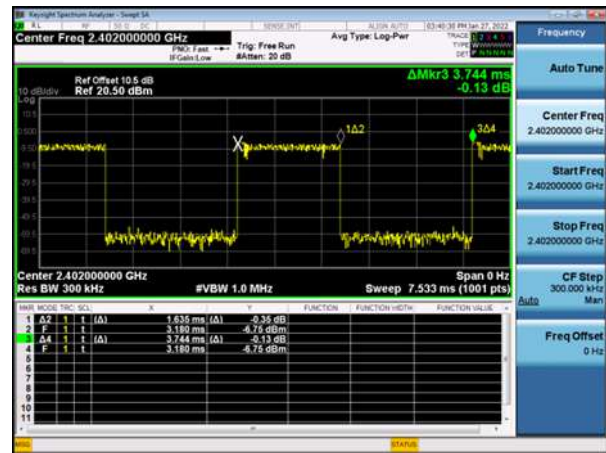
Modulation Type: $\pi/4$ -DQPSK-DH1
Channel: 00



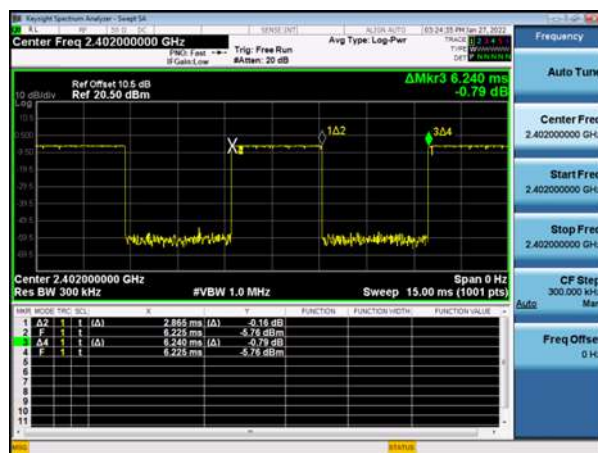
Modulation Type: GFSK-DH3
Channel: 00



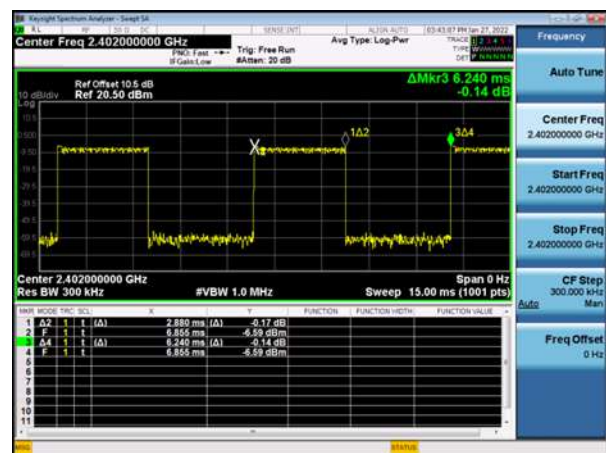
Modulation Type: $\pi/4$ -DQPSK-DH3
Channel: 00



Modulation Type: GFSK-DH5
Channel: 00

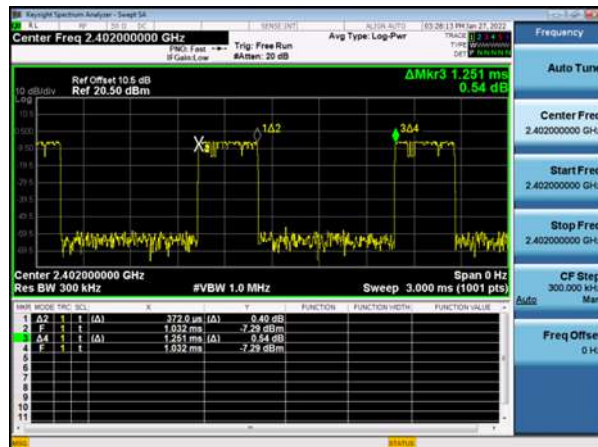


Modulation Type: $\pi/4$ -DQPSK-DH5
Channel: 00

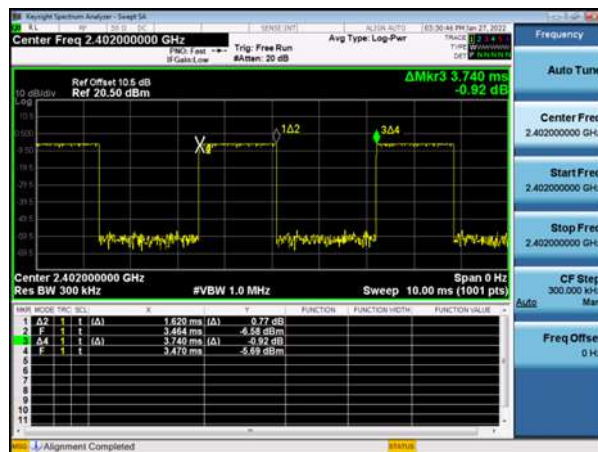




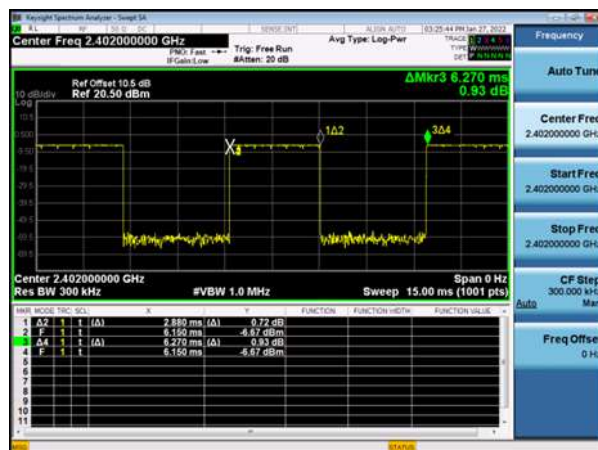
Modulation Type: AFH (DH1)



Modulation Type: AFH (DH3)



Modulation Type: AFH (DH5)





11. Number of Hopping Channels

11.1 Test Limit

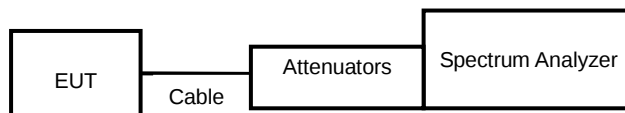
Frequency hopping systems in the 2400 ~ 2483.5 MHz band shall use at least 15 channels.

11.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 7.8.3

- a. The transmitter output was connected to the spectrum analyzer.
- b. 2. Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- c. 3. Set the MaxHold function, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been record.

11.3 Test Setup Layout

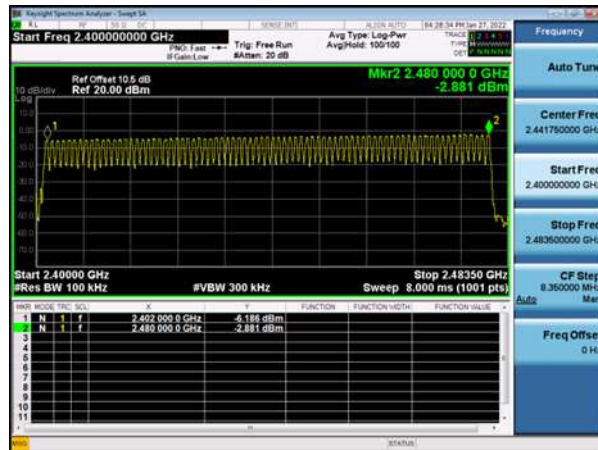


11.4 Test Result and Data

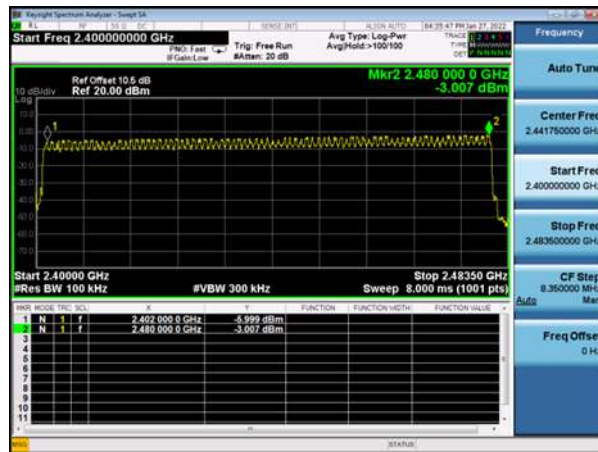
Modulation Type	Hopping Channels
GFSK	79
$\pi/4$ -DQPSK	79



Modulation Type: GFSK (1Mbps)



Modulation Type: $\pi/4$ -DQPSK (2Mbps)





12. Maximum Peak Output Power

12.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

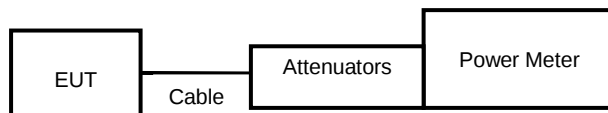
12.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 7.8.5

The antenna port(RF output)of the EUT was connected to the input(RF input)of a power meter.

Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

12.3 Test Setup Layout





12.4 Test Result and Data

Modulation Type	Setting	Channel	Frequency (MHz)	PK Output Power (dBm)	PK Output Power (mW)
GFSK	7	0	2402	-4.82	0.330
	7	39	2441	-2.70	0.537
	7	78	2480	-1.21	0.757
$\pi/4$ -DQPSK	7	0	2402	-4.21	0.379
	7	39	2441	-2.04	0.625
	7	78	2480	-1.34	0.735

Modulation Type	Setting	Channel	Frequency (MHz)	AV Output Power (dBm)	AV Output Power (mW)
GFSK	7	0	2402	-7.33	0.185
	7	39	2441	-4.97	0.318
	7	78	2480	-3.45	0.452
$\pi/4$ -DQPSK	7	0	2402	-8.59	0.138
	7	39	2441	-6.19	0.240
	7	78	2480	-4.68	0.340

*Note: Average power is for reference only.

AFH Mode

Modulation Type	Setting	Channel	Frequency (MHz)	PK Output Power (dBm)	PK Output Power (mW)
GFSK	7	0-19	2402-2421	-3.76	0.421
$\pi/4$ -DQPSK	7	0-19	2402-2421	-3.13	0.487

AFH Mode

Modulation Type	Setting	Channel	Frequency (MHz)	AV Output Power (dBm)	AV Output Power (mW)
GFSK	7	0-19	2402-2421	-6.15	0.243
$\pi/4$ -DQPSK	7	0-19	2402-2421	-7.39	0.182

*Note: Average power is for reference only.