FCC 47 CFR PART 15 SUBPART C
ISED RSS-247 ISSUE 2

CERTIFICATION TEST REPORT

For

Car Radio

MODEL NUMBER: New Radio Ultra Low SBT

FCC ID: 2AEQT-TR7229-71

REPORT NUMBER: 4788645536-2

ISSUE DATE: September 04, 2018

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
--	09/04/2018	Initial Issue	

Summary of Test Results			
Clause	**Test Items**	**FCC/IC Rules**	**Test Results**
1	20dB Bandwidth And 99% Bandwidth	FCC 15.247 (a) (1)	Pass
2	Peak Conducted Output Power	FCC 15.247 (b) (1)	Pass
3	Carrier Hopping Channel Separation	FCC 15.247 (a) (1)	Pass
4	Number of Hopping Frequency	15.247 (a) (1) III	Pass
5	Time of Occupancy (Dwell Time)	15.247 (a) (1) III	Pass
6	Conducted Bandedge	FCC 15.247 (d)	Pass
7	Radiated Bandedge and Spurious	FCC 15.247 (d) FCC 15.209 FCC 15.205	Pass
8	Conducted Emission Test For AC Power Port	FCC 15.207	N/A note
9	Antenna Requirement	FCC 15.203	Pass

Note: N/A means not applicable, the EUT was used in vehicle environment.

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1. ATTESTATION OF TESCT RESULTS

Applicant Information

Company Name:	Huizhou Desay SV Automotive Co., Ltd.
Address:	NO.103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guangdong, P.R. China

Manufacturer Information

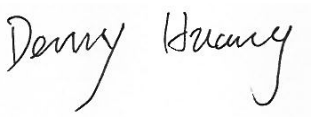
Company Name:	Huizhou Desay SV Automotive Co., Ltd.
Address:	NO.103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guangdong, P.R. China

EUT Description

Product Name	Car Radio
Brand Name	Volkswagen, DESAY SV AUTOMOTIVE
Model Name	New Radio Ultra Low SBT
Sample ID	1775114
Sample Status	Normal
Sample Received date	August 24, 2018
Date Tested	August 25, 2018 ~ September 4, 2018

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC Part 15 Subpart C	PASS

Prepared By:



Denny Huang
Engineer Project Associate

Checked By:

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Laboratory Leader

Approved By:

Stephen Guo
Laboratory Manager

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with DA 00-705,KDB414788 D01 Radiated Test Site v01, ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 5, and RSS-247 Issue 2.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **IAS (Lab Code: TL-702)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has demonstrated compliance with ISO/IEC Standard 17025:2005, General requirements for the competence of testing and calibration laboratories **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules **IC(Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320. **VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011

Note:

1. All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

2. The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OATS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.90dB
Uncertainty for Radiation Emission test(include Fundamental emission) (9KHz-30MHz)	2.2dB
Uncertainty for Radiation Emission test(include Fundamental emission) (30MHz-1GHz)	4.52dB
Uncertainty for Radiation Emission test (1GHz to 26GHz)(include Fundamental emission)	5.04dB(1-6GHz)
	5.30dB (6GHz-18Gz)
	5.23dB (18GHz-26Gz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Car Radio		
Model	New Radio Ultra Low SBT		
Product Description (Bluetooth)	Operation Frequency	2402 MHz ~ 2480 MHz	
	Modulation Type		Data Rate
	GFSK		1Mbps
	∏/4-DQPSK		2Mbps
	8DPSK		3Mbps
Rated Input	DC 12V		

Note: Pre-scan had been done for both ∏/4-DQPSK and 8DPSK, the output power of 8DPSK is larger than ∏/4-DQPSK, so only the 8DPSK test result was put in this report.

5.2. MAXIMUM OUTPUT POWER

Bluetooth Mode	Frequency (MHz)	Channel Number	Max Output Power (dBm)	EIRP (dBm)
GFSK	2402-2480	0-78[79]	5.688	6.088
8DPSK	2402-2480	0-78[79]	4.369	4.769

5.3. PACKET TYPE CONFIGURATION

Test Mode	Packet Type	Setting(Packet Length)
GFSK	DH1	27
	DH3	183
	DH5	339
∏/4-DQPSK	2-DH1	54
	2-DH3	367
	2-DH5	679
8DPSK	3-DH1	83
	3-DH3	552
	3-DH5	1021

5.4. CHANNEL LIST

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		

5.5. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel Number	Test Channel
GFSK	CH 00, CH 39, CH 78	Low, Middle, High
8DPSK	CH 00, CH 39, CH 78	Low, Middle, High

5.6. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band				
Test Software		BlueTest3		
Modulation Type	Transmit Antenna Number	Test Channel		
		CH 00	CH 39	CH 78
GFSK	1	Default	Default	Default
8DPSK	1	Default	Default	Default

5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2402-2480	PCB Antenna	0.4

Test Mode	Transmit and Receive Mode	Description
GFSK	1TX, 1RX	Chain 1 can be used as transmitting/receiving antenna.
8DPSK	1TX, 1RX	Chain 1 can be used as transmitting/receiving anctenna.

5.8. WORST-CASE CONFIGURATIONS

Bluetooth Mode	Modulation Technology	Modulation Type	Data Rate (Mbps)
BR	FHSS	GFSK	1Mbit/s
EDR	FHSS	8DPSK	3Mbit/s

Note: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

5.9. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
1	Laptop	ThinkPad	T460S	SL10K24796 JS
2	CSR Control Board	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	/	/	/	/	/

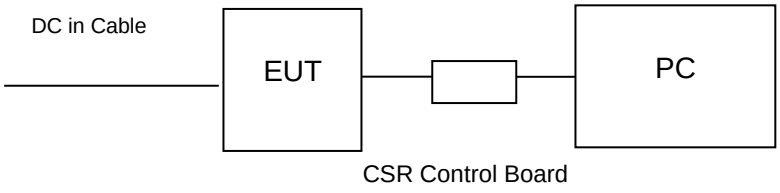
ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	/	/	/	/

TEST SETUP

The EUT can work in an engineer mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS



5.10. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions							
Instrument							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
☑	EMI Test Receiver	R&S	ESR3	101961	Dec.20, 2016	Dec.12, 2017	Dec.11, 2018
☑	Two-Line V-Network	R&S	ENV216	101983	Dec.20, 2016	Dec.12, 2017	Dec.11, 2018
☑	Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Feb.10, 2017	Dec.12, 2017	Dec.11, 2018
Software							
Used	Description			Manufacturer	Name	Version	
☑	Test Software for Conducted disturbance			Farad	EZ-EMC	Ver. UL-3A1	
Radiated Emissions							
Instrument							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
☑	MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Feb. 24, 2017	Dec.12, 2017	Dec.11, 2018
☑	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Jan.09, 2016	Jan.09, 2016	Jan.09, 2019
☑	Preamplifier	HP	8447D	2944A09099	Feb. 13, 2017	Dec.12, 2017	Dec.11, 2018
☑	EMI Measurement Receiver	R&S	ESR26	101377	Dec. 20, 2016	Dec.12, 2017	Dec.11, 2018
☑	Horn Antenna	TDK	HRN-0118	130939	Jan. 09, 2016	Jan. 09, 2016	Jan. 09, 2019
☑	High Gain Horn Antenna	Schwarzbeck	BBHA-9170	691	Jan.06, 2016	Jan.06, 2016	Jan.06, 2019
☑	Preamplifier	TDK	PA-02-0118	TRS-305-00066	Jan. 14, 2017	Dec.12, 2017	Dec.11, 2018
☑	Preamplifier	TDK	PA-02-2	TRS-307-00003	Dec. 20, 2016	Dec.12, 2017	Dec.11, 2018
☑	Loop antenna	Schwarzbeck	1519B	00008	Mar. 26, 2016	Mar. 26, 2016	Mar. 26, 2019
Software							
Used	Description			Manufacturer	Name	Version	
☑	Test Software for Radiated disturbance			Farad	EZ-EMC	Ver. UL-3A1	
Other instruments							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
☑	Spectrum Analyzer	Keysight	N9030A	MY55410512	Dec. 20, 2016	Dec.12, 2017	Dec.11, 2018
☑	Power Meter	Keysight	N9031A	MY55416024	Feb. 13, 2017	Dec.12, 2017	Dec.11, 2018
☑	Power Sensor	Keysight	N9323A	MY55440013	Feb. 13, 2017	Dec.12, 2017	Dec.11, 2018

6. ANTENNA PORT TEST RESULTS

6.1. ON TIME AND DUTY CYCLE

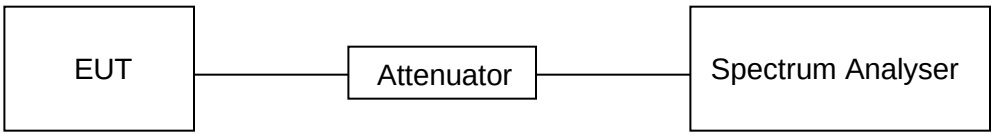
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

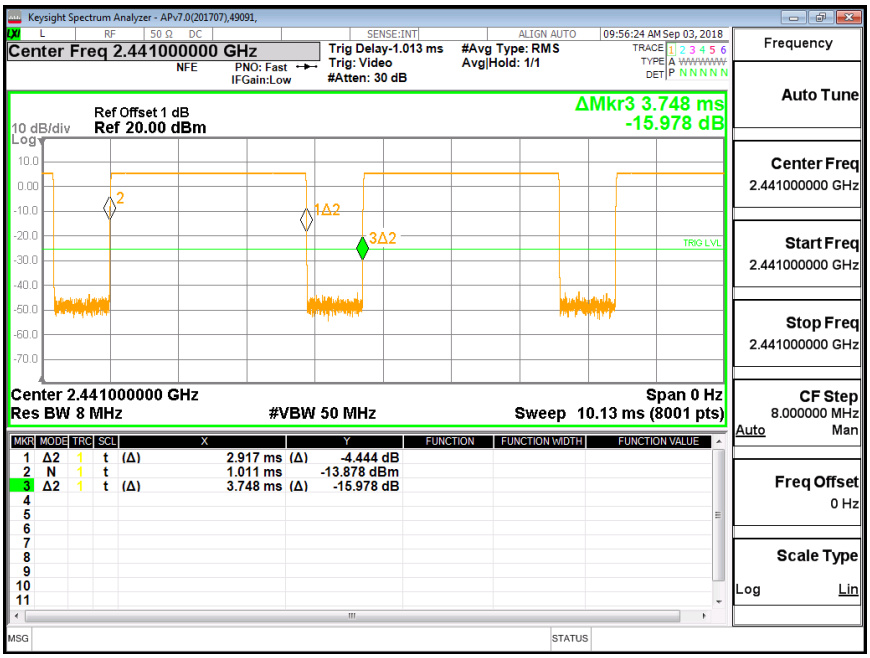
Temperature	22.5°C	Relative Humidity	65%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

RESULTS

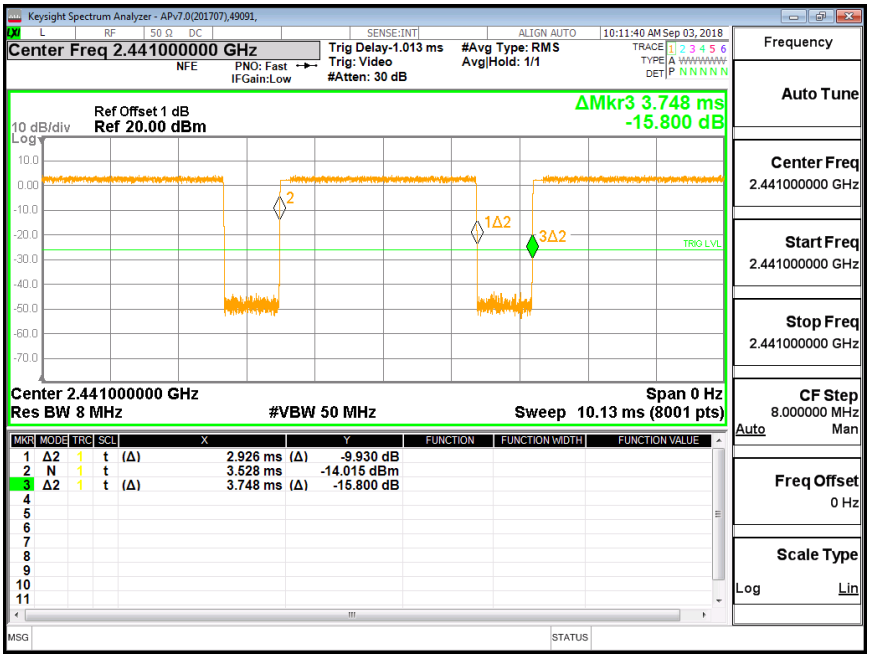
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)
GFSK	2.917	3.748	0.778	77.8	1.090
8DPSK	2.926	3.748	0.781	78.1	1.073

Note: Duty Cycle Correction Factor=10log(1/x).
Where: x is Duty Cycle(Linear)
Where: T is On Time (transmit duration)

DH5 ON TIME AND DUTY CYCLE MID CH



3DH5 ON TIME AND DUTY CYCLE MID CH



6.2. 20 dB BANDWIDTH AND 99% BANDWIDTH

LIMITS

FCC Part15 (15.247) Subpart C RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.247 (a) (1)	20dB Bandwidth	N/A	2400-2483.5

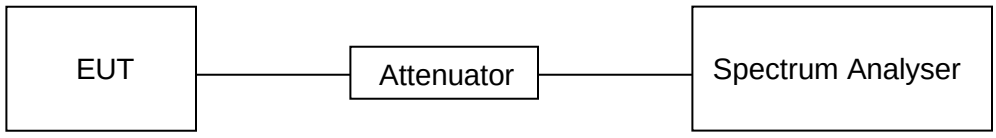
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 20dB Bandwidth:1% of the 20 dB bandwidth For 99% Bandwidth: 1% to 5% of the occupied bandwidth
VBW	For 20dB Bandwidth: ≥ RBW For 99% Bandwidth: approximately 3×RBW
Span	approximately 2 to 3 times the 20 dB bandwidth
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.5°C	Relative Humidity	65%
Atmosphere Pressure	101kPa	Test Voltage	DC12V

RESULTS

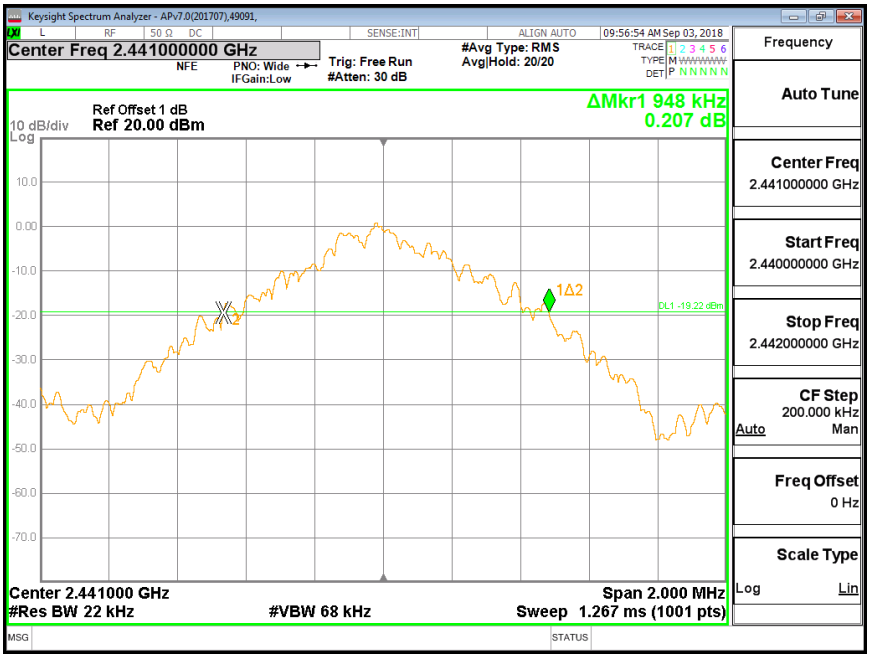
6.2.1. GFSK MODE

Channel	Frequency (MHz)	20dB bandwidth (MHz)	99% bandwidth (MHz)	Result
Low	2402	0.928	0.886	PASS
Middle	2441	0.948	0.873	PASS
High	2480	0.946	0.881	PASS

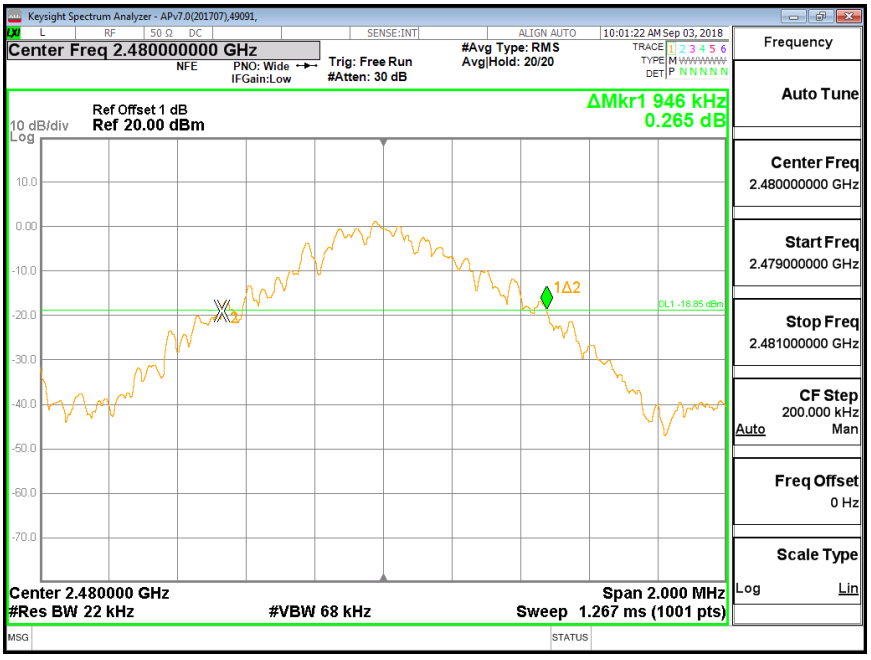
Test Graph

20 dB BANDWIDTH LOW CH

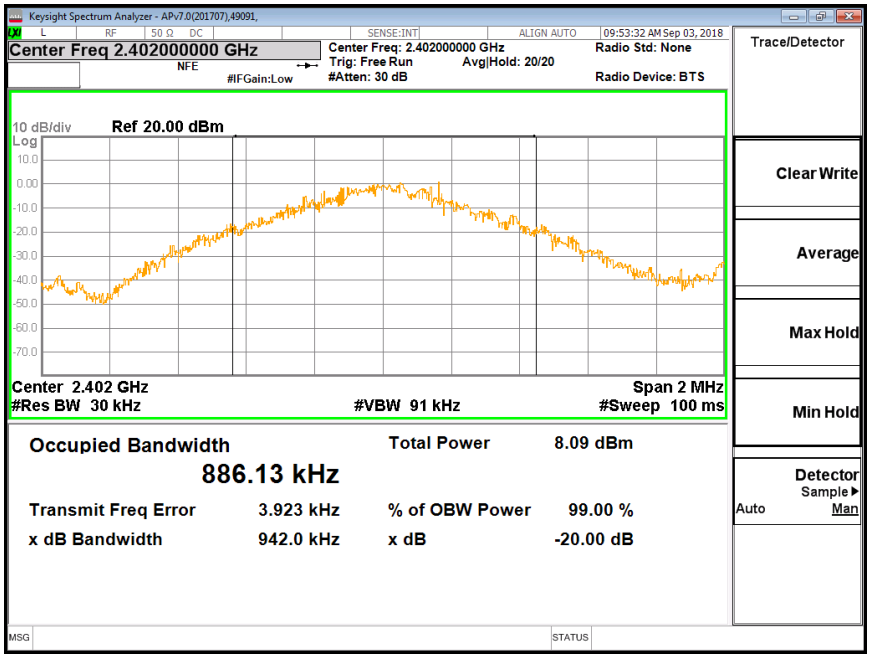
20 dB BANDWIDTH MID CH



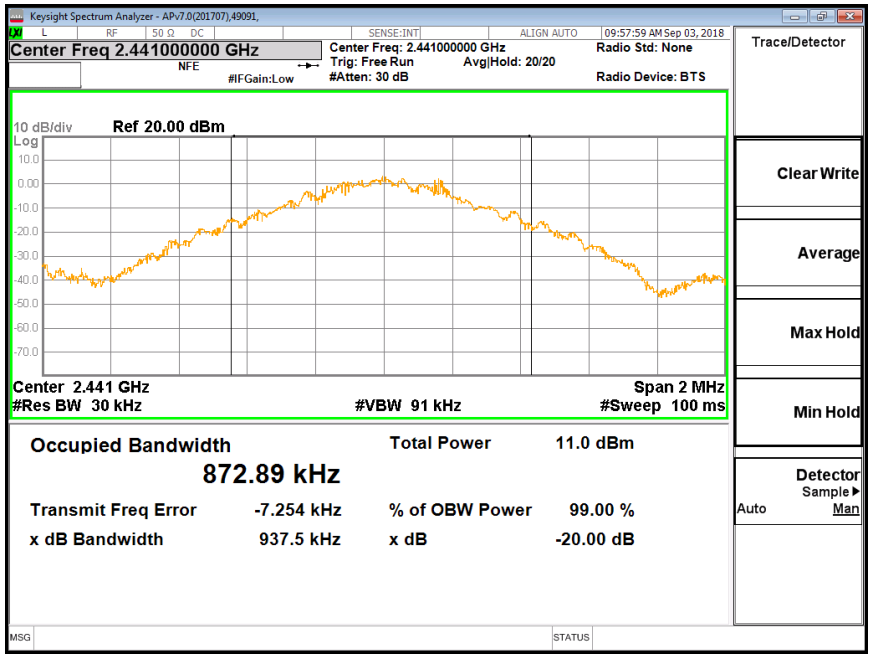
20 dB BANDWIDTH HIGH CH



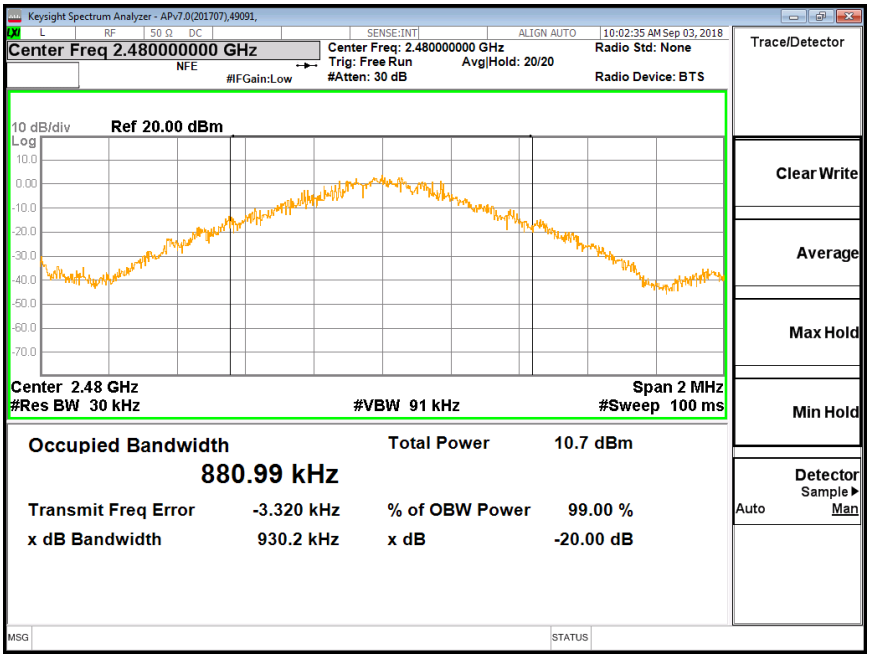
99% BANDWIDTH LOW CH



99% BANDWIDTH MID CH



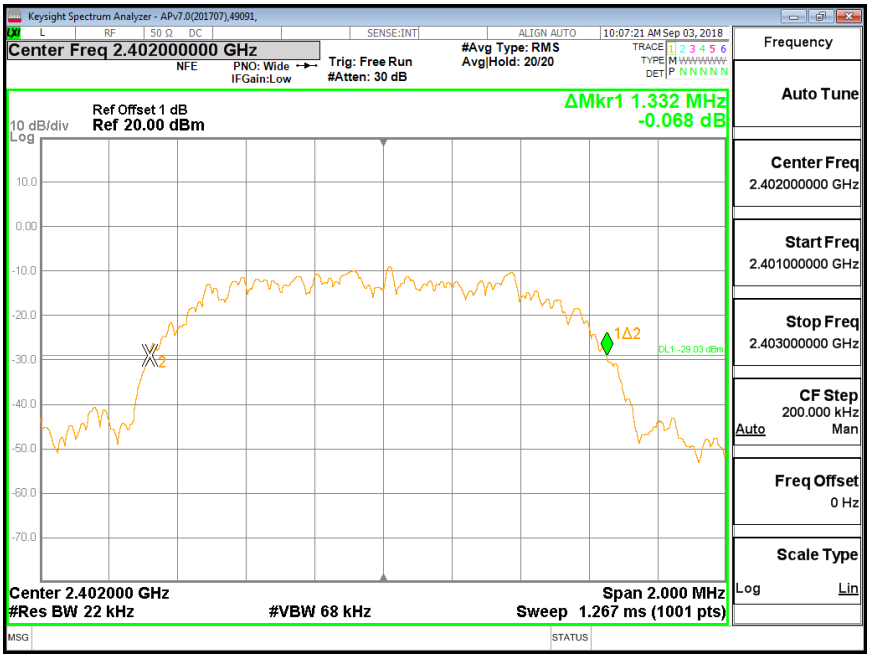
99% BANDWIDTH HIGH CH



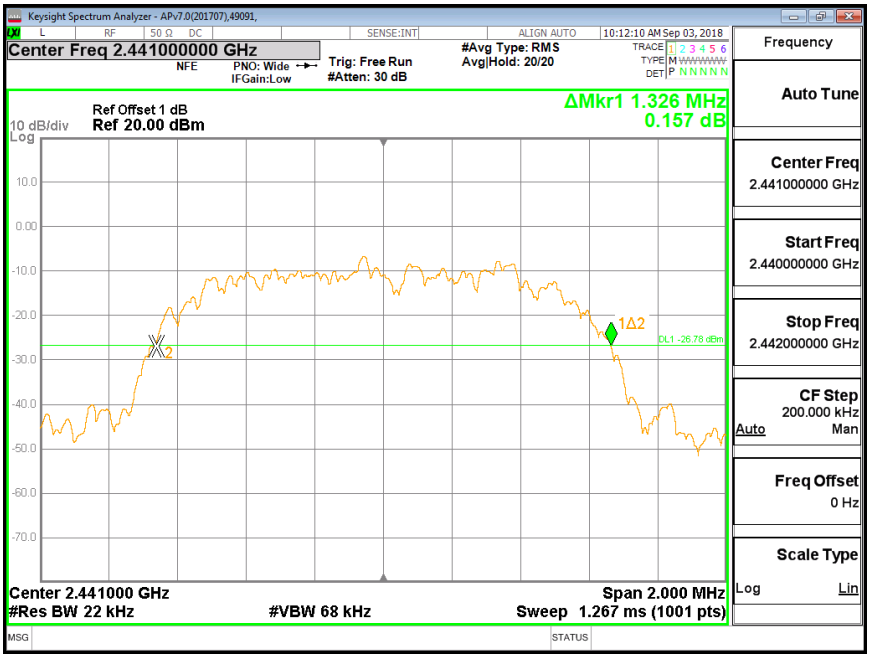
6.2.2. 8DPSK MODE

Channel	Frequency (MHz)	20dB bandwidth (MHz)	99% bandwidth (MHz)	Result
Low	2402	1.332	1.1997	Pass
Middle	2441	1.326	1.1996	Pass
High	2480	1.272	1.1918	Pass

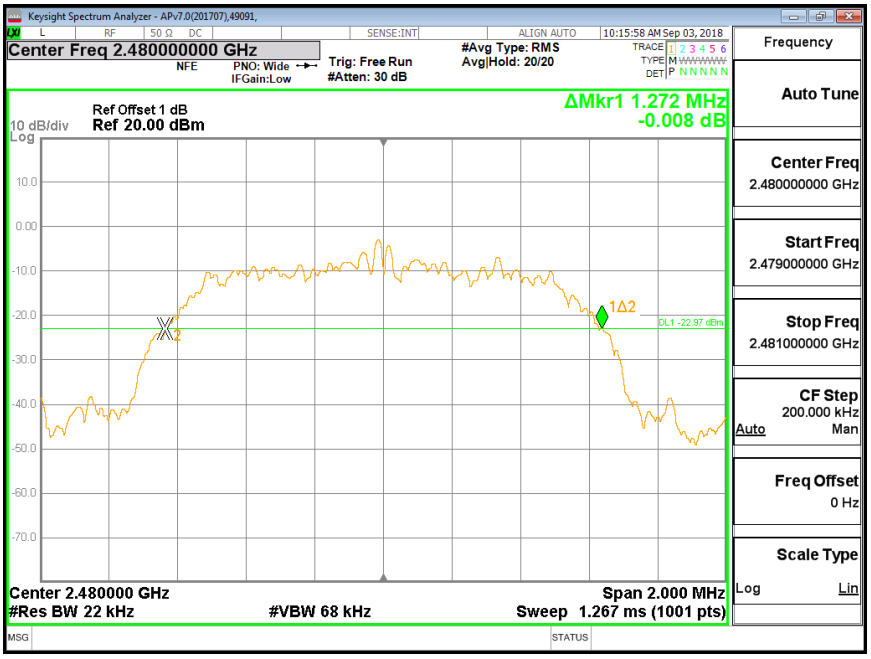
20 dB BANDWIDTH LOW CH



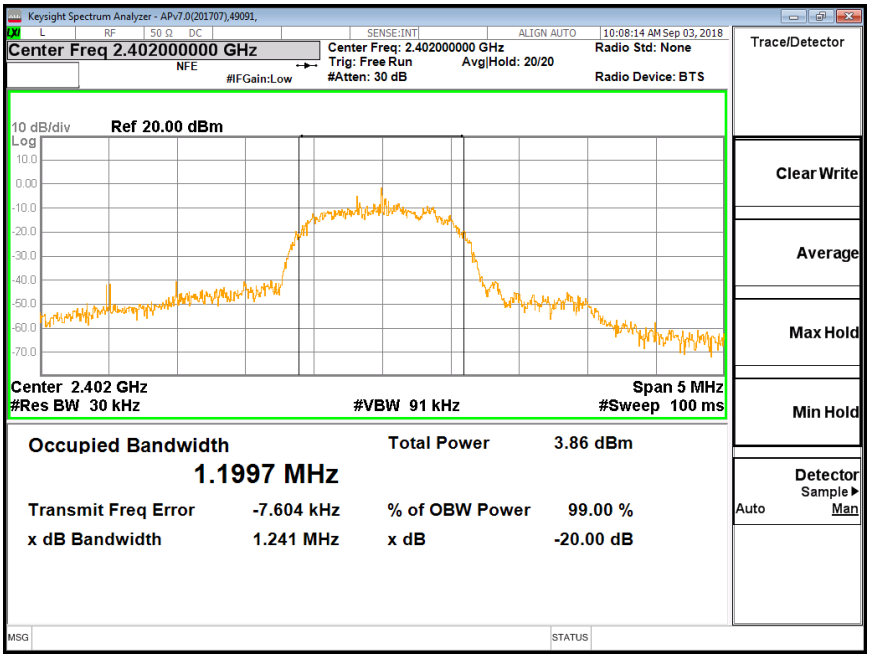
20 dB BANDWIDTH MID CH



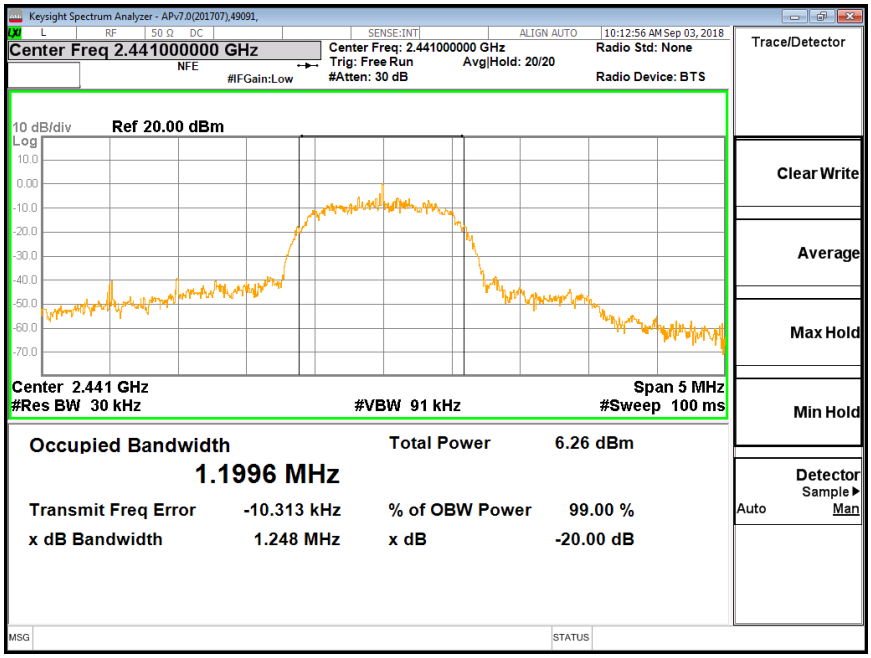
20 dB BANDWIDTH HIGH CH



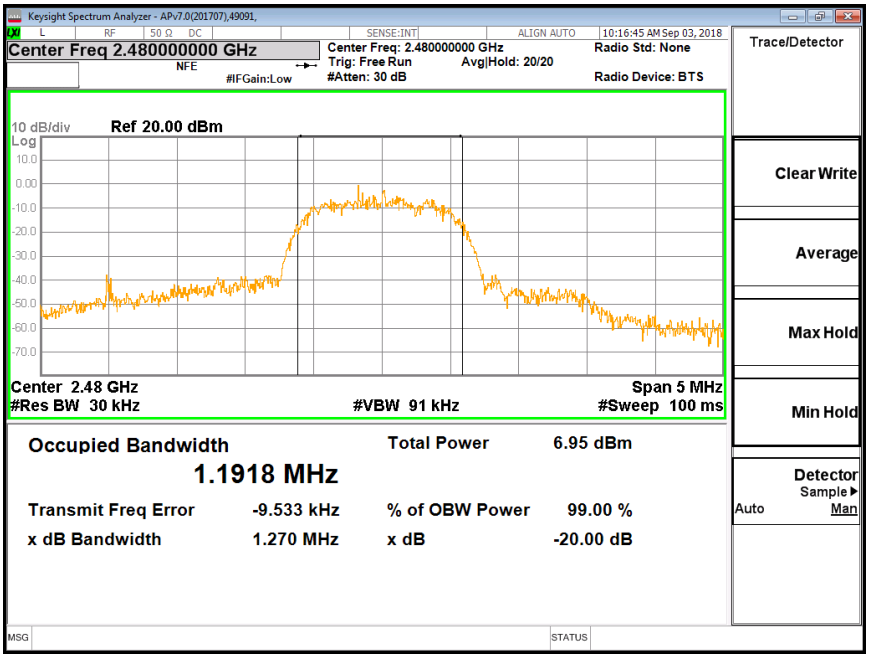
99% BANDWIDTH LOW CH



99% BANDWIDTH MID CH



99% BANDWIDTH HIGH CH



6.3. PEAK CONDUCTED OUTPUT POWER

LIMITS

FCC Part15 (15.247) , Subpart C RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.247 (b) (1)	Peak Conducted Output Power	1 watt or 30dBm	2400-2483.5

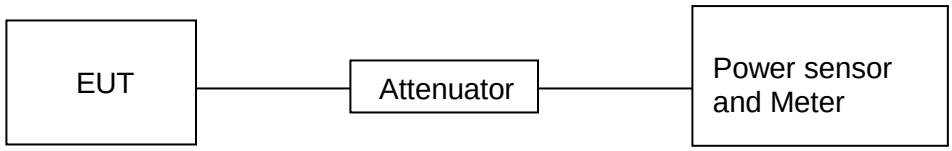
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	≥ 20 dB bandwidth
VBW	≥RBW
Span	Approximately five times the 20 dB bandwidth
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use peak marker function to determine the peak amplitude level.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.5°C	Relative Humidity	65%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

RESULTS

6.3.1. GFSK MODE

Channel	Frequency	Maximum Conducted Output Power(PK)	PK EIRP	Result
	(MHz)	(dBm)	(dBm)	
Low	2402	3.740	4.140	Pass
Middle	2441	5.536	5.936	Pass
High	2480	5.688	6.088	Pass

Note: EIRP= Maximum Conducted Output Power + Antenna Gain

6.3.2. 8DPSK MODE

Channel	Frequency	Maximum Conducted Output Power(PK)	PK EIRP	Result
	(MHz)	(dBm)	(dBm)	
Low	2402	2.025	2.425	Pass
Middle	2441	4.046	4.446	Pass
High	2480	4.369	4.769	Pass

Note: EIRP= Maximum Conducted Output Power + Antenna Gain

6.4. CARRIER HOPPING CHANNEL SEPARATION

LIMITS

FCC Part15 (15.247) , Subpart C RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.247 (a) (1)	Carrier Hopping Channel Separation	25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.	2400-2483.5

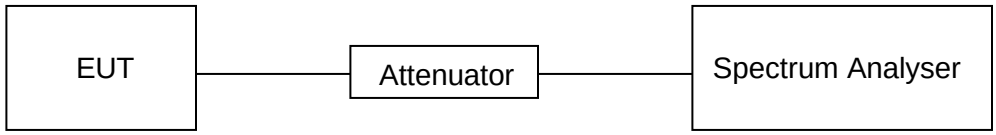
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Span	wide enough to capture the peaks of two adjacent channels
Detector	Peak
RBW	Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
VBW	≥RBW
Trace	Max hold
Sweep time	Auto couple

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section. Submit this plot.

TEST SETUP



TEST ENVIRONMENT

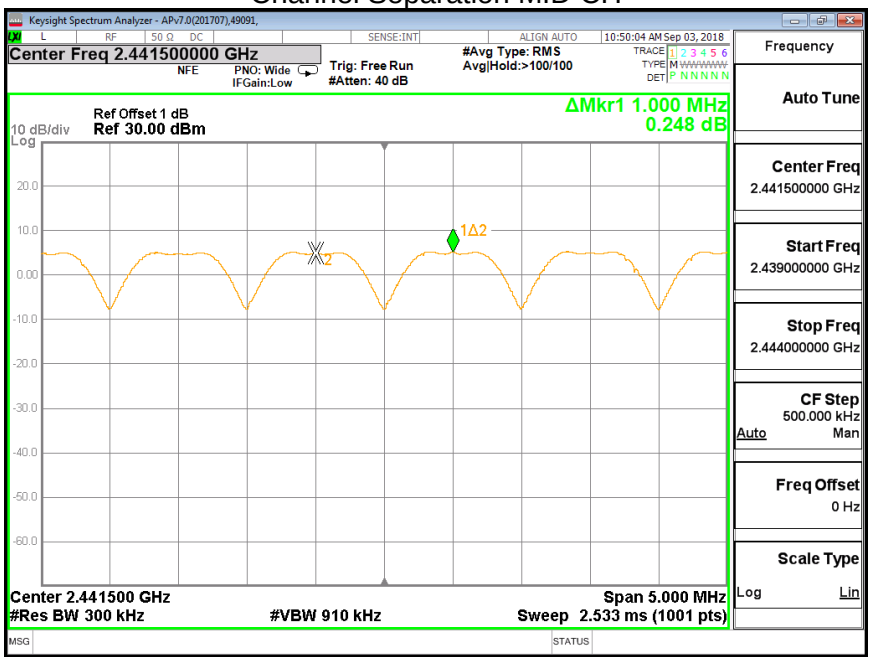
Temperature	22.5°C	Relative Humidity	65%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

RESULTS

6.4.1. GFSK MODE

Channel	Carrier Hopping Channel Separation (MHz)	Limit (MHz)	Result
Middle	1.0	≥ two-thirds of the 20 dB Bandwidth Of The Hopping Channel	PASS

Channel Separation MID CH

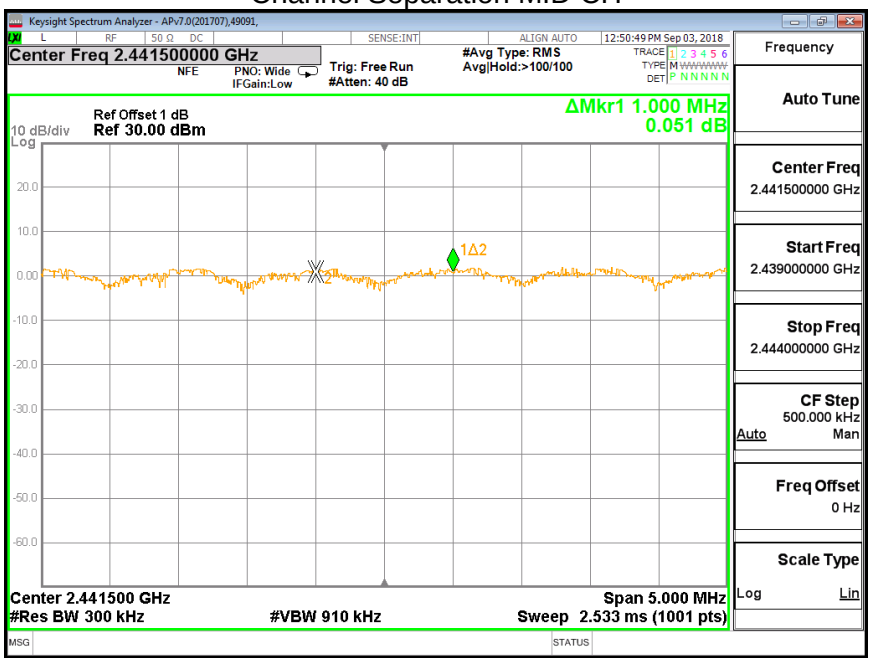


Note: For 20 dB Bandwidth of The Hopping Channel, please refer to clause 6.2.1.

6.4.2. 8DPSK MODE

Channel	Carrier Hopping Channel Separation (MHz)	Limit (MHz)	Result
Middle	1.0	≥ two-thirds of the 20 dB Bandwidth Of The Hopping Channel	PASS

Channel Separation MID CH



Note: For 20 dB Bandwidth of The Hopping Channel, please refer to clause 6.2.2.

6.5. NUMBER OF HOPPING FREQUENCY

LIMITS

FCC Part15 (15.247) , Subpart C RSS-247 ISSUE 2		
Section	Test Item	Limit
15.247 (a) (1) III	Number of Hopping Frequency	at least 15 hopping channels

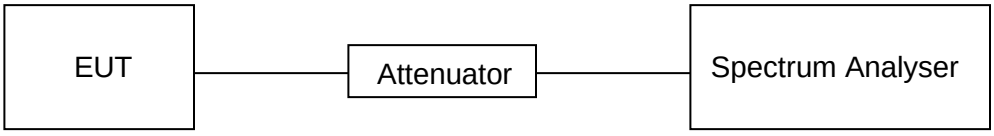
TEST PROCEDURE

Connect the EUT to the spectrum analyser and use the following settings:

Detector	Peak
RBW	To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
VBW	≥RBW
Span	The frequency band of operation
Trace	Max hold
Sweep time	Auto couple

Set EUT to transmit maximum output power and switch on frequency hopping function. then set enough count time (larger than 5000 times) to get all the hopping frequency channel displayed on the screen of spectrum analyzer.
Count the quantity of peaks to get the number of hopping channels.
Normal Mode: 79 Channels observed.
AFH Mode: 20 Channels declared.

TEST SETUP



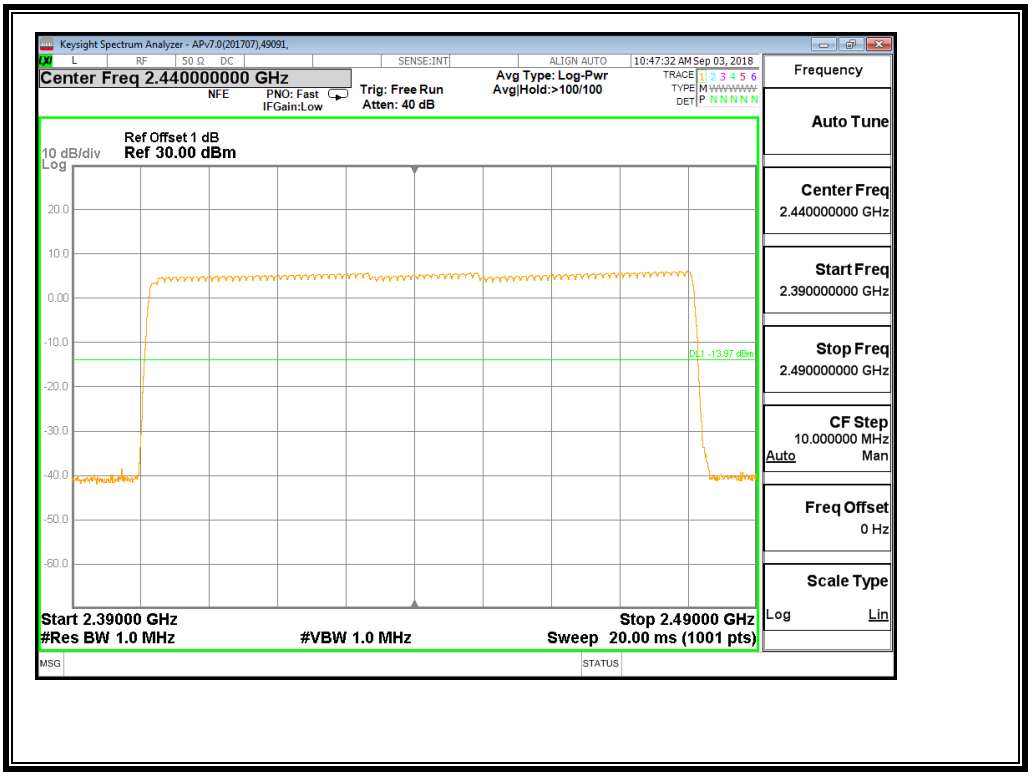
TEST ENVIRONMENT

Temperature	22.5°C	Relative Humidity	65%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

RESULTS

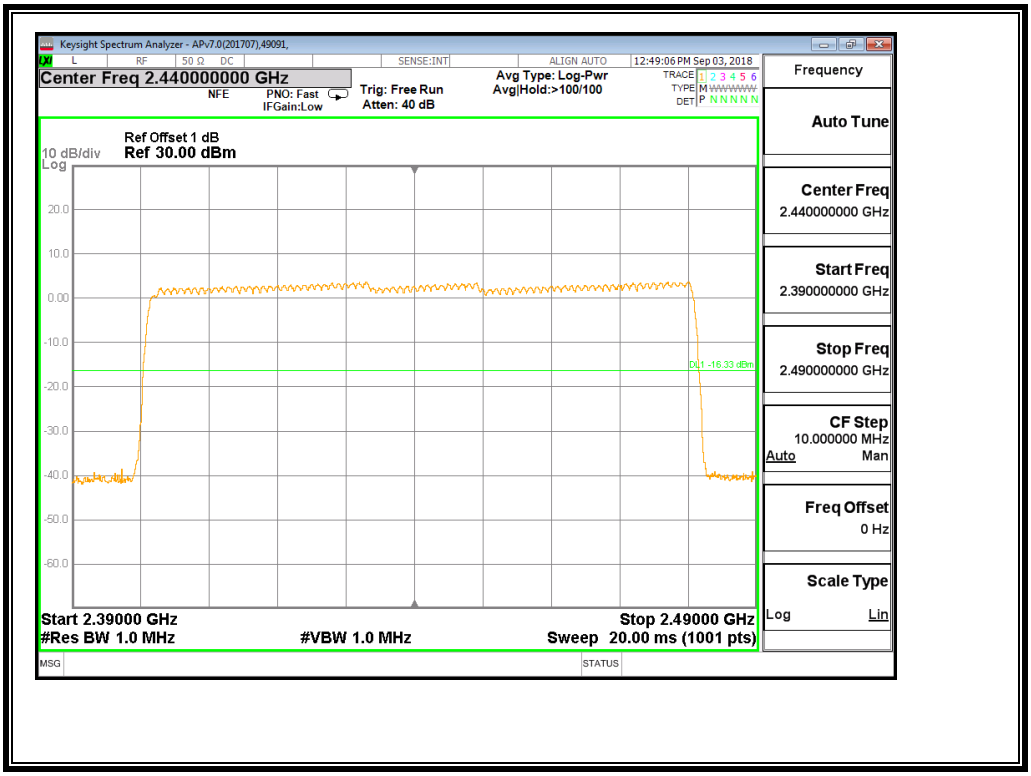
6.5.1. GFSK MODE

Hopping numbers	Limit	Results
79	>15	Pass



6.5.2. 8DPSK MODE

Hopping numbers	Limit	Results
79	>15	Pass



6.6. TIME OF OCCUPANCY (DWELL TIME)

LIMITS

FCC Part15 (15.247) , Subpart C RSS-247 ISSUE 2		
Section	Test Item	Limit
15.247 (a) (1) III	Time of Occupancy (Dwell Time)	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.

TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

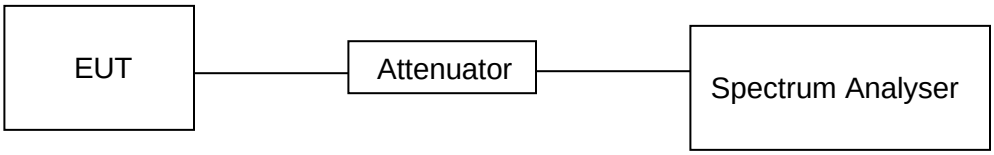
Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	1 MHz
VBW	≥RBW
Span	zero span
Trace	Max hold
Sweep time	As necessary to capture the entire dwell time per hopping channel

a. The transmitter output (antenna port) was connected to the spectrum analyzer
b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
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.
A Period Time = (channel number)*0.4

For Normal Mode (79 Channel):
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)

For AFH Mode (20 Channel):
DH1 Time Slot: Reading * (1600/2)*8/(channel number)
DH3 Time Slot: Reading * (1600/4)*8/(channel number)
DH5 Time Slot: Reading * (1600/6)*8/(channel number)

TEST SETUP



TEST ENVIRONMENT

Temperature	22.5°C	Relative Humidity	65%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

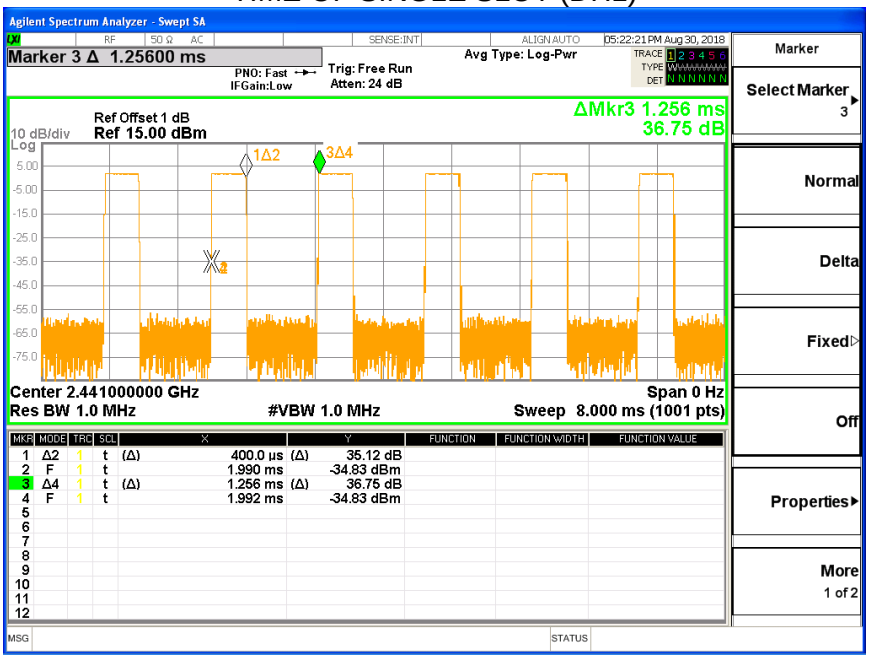
RESULTS

6.6.1. GFSK MODE

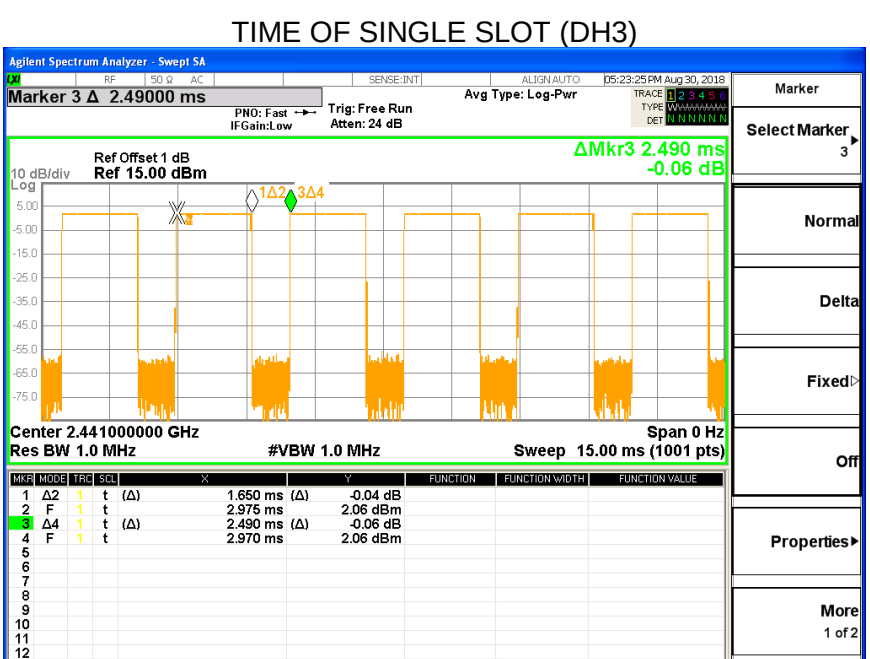
Normal Mode				
Packet	**Channel**	**Burst Width [ms/hop/ch]**	**Dwell Time [ms]**	**Results**
DH1	MCH	0.400	0.128	PASS
DH3	MCH	1.650	0.264	PASS
DH5	MCH	2.880	0.307	PASS
AFH Mode				
DH1	MCH	0.400	0.128	PASS
DH3	MCH	1.650	0.264	PASS
DH5	MCH	2.880	0.307	PASS

Test Graph

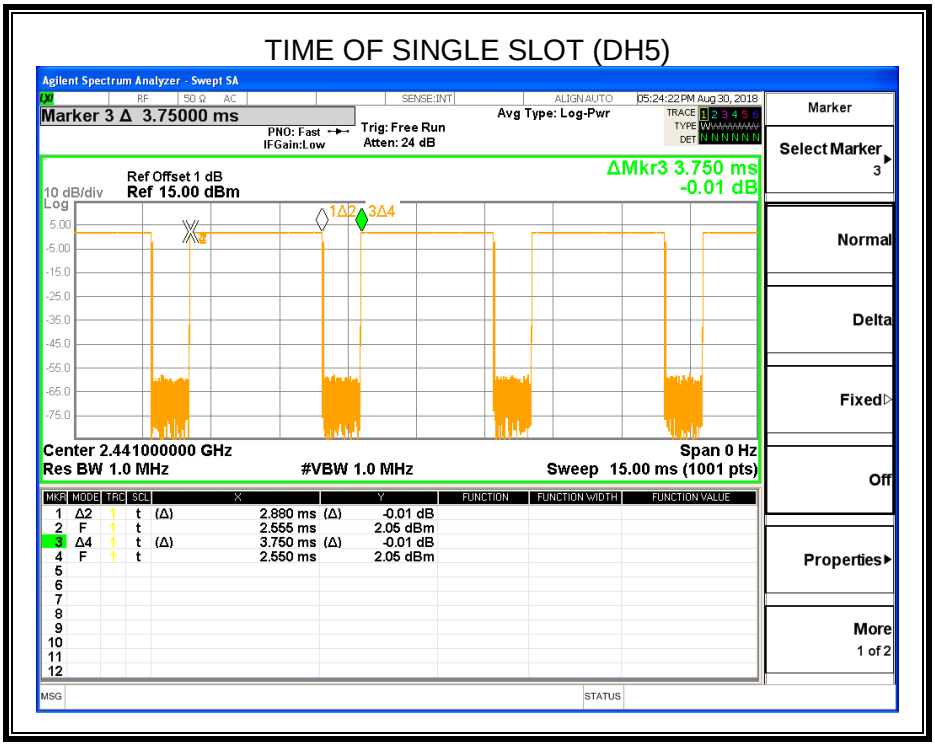
TIME OF SINGLE SLOT (DH1)



TIME OF SINGLE SLOT (DH3)



TIME OF SINGLE SLOT (DH5)

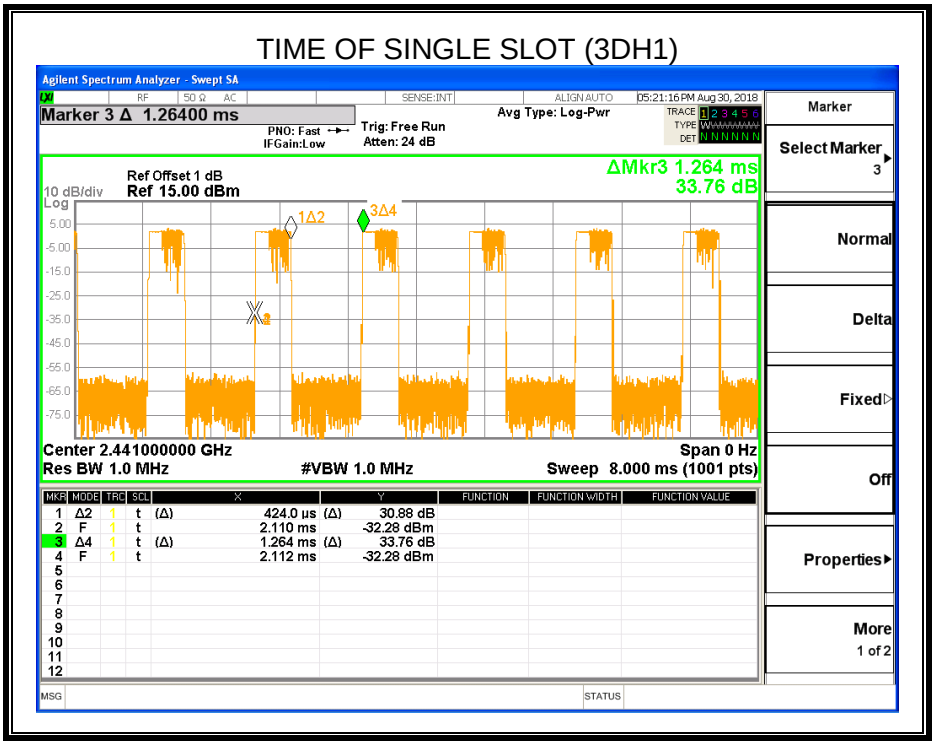


6.6.2. 8DPSK MODE

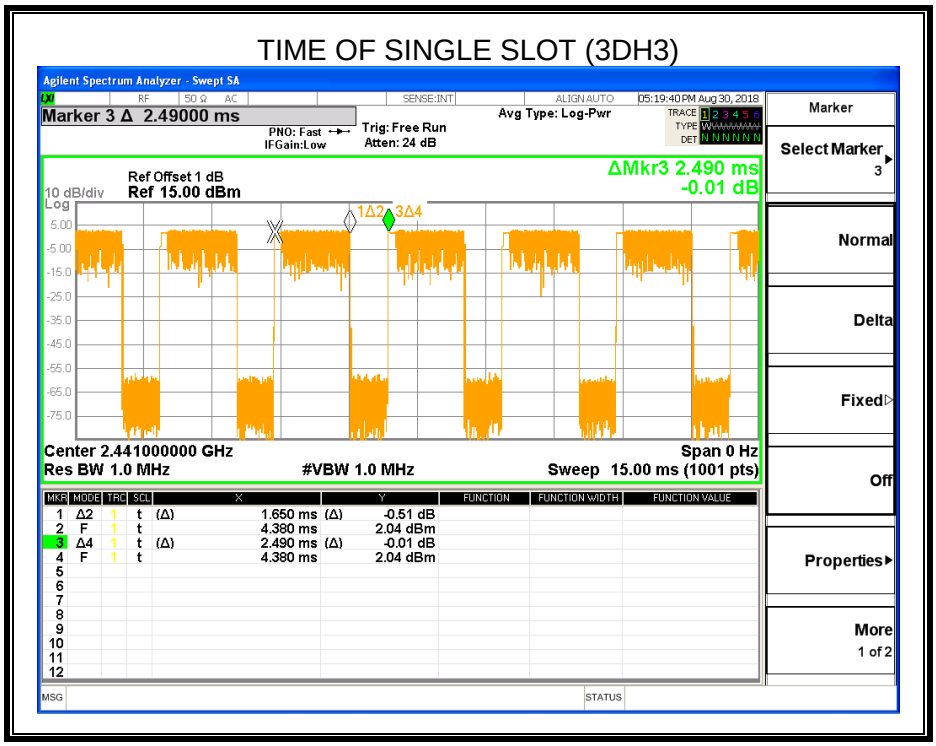
Normal Mode				
Packet	Channel	Burst Width [ms/hop/ch]	Dwell Time [ms]	Results
3DH1	MCH	0.424	0.136	PASS
3DH3	MCH	1.650	0.264	PASS
3DH5	MCH	2.910	0.310	PASS
AFH Mode				
3DH1	MCH	0.424	0.136	PASS
3DH3	MCH	1.650	0.264	PASS
3DH5	MCH	2.910	0.310	PASS

Test Graph

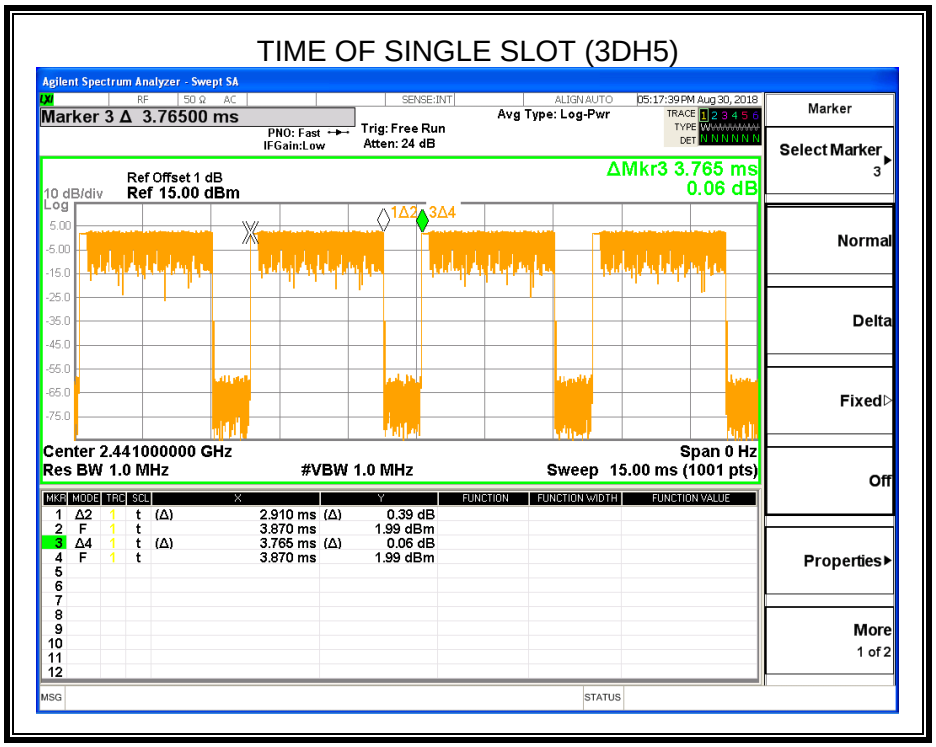
TIME OF SINGLE SLOT (3DH1)



TIME OF SINGLE SLOT (3DH3)



TIME OF SINGLE SLOT (3DH5)



6.7. CONDUCTED SPURIOUS EMISSION

LIMITS

FCC Part15 (15.247) , Subpart C RSS-247 ISSUE 2		
Section	Test Item	Limit
FCC §15.247 (d)	Conducted Spurious Emission	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

For Bandedge use the following settings:

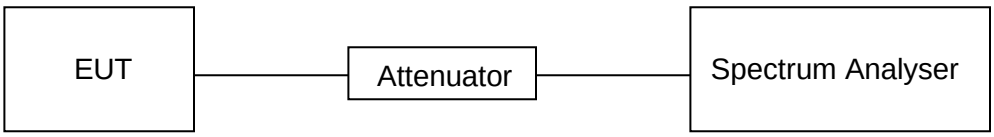
Detector	Peak
RBW	100KHz
VBW	300KHz
Span	wide enough to fully capture the emission being measured
Trace	Max hold
Sweep time	Auto couple.

For Spurious Emission use the following settings:

Detector	Peak
RBW	100KHz
VBW	300KHz
Span	wide enough to fully capture the emission being measured
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level**.**

TEST SETUP



TEST ENVIRONMENT

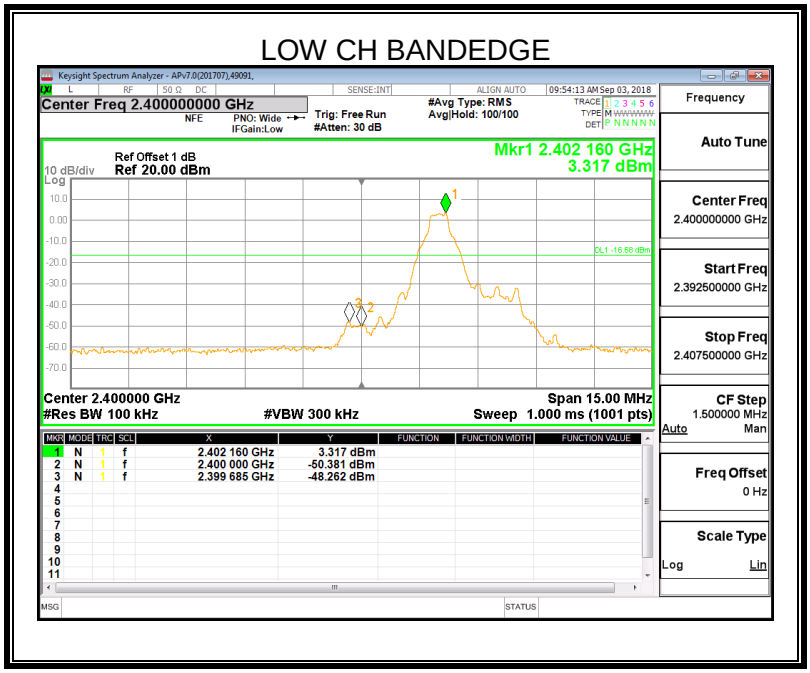
Temperature	22.5°C	Relative Humidity	65%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

RESULTS

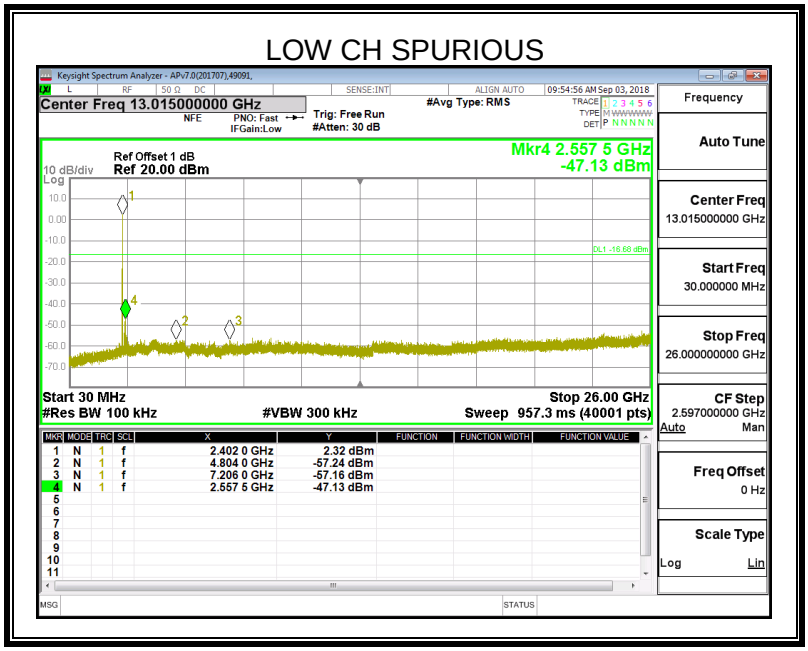
6.7.1. GFSK MODE

SPURIOUS EMISSIONS, LOW CHANNEL

LOW CH BANDEDGE

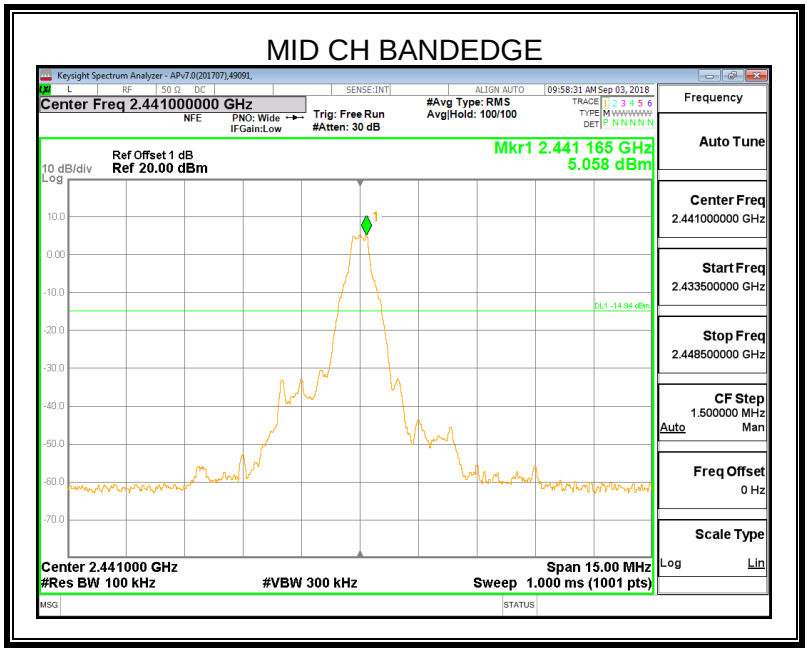


LOW CH SPURIOUS

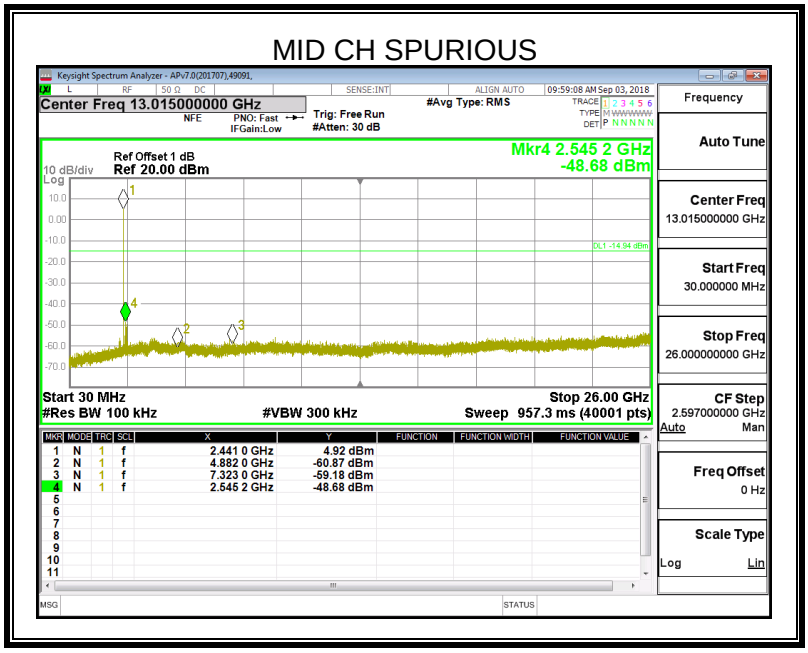


SPURIOUS EMISSIONS, MID CHANNEL

MID CH BANDEDGE

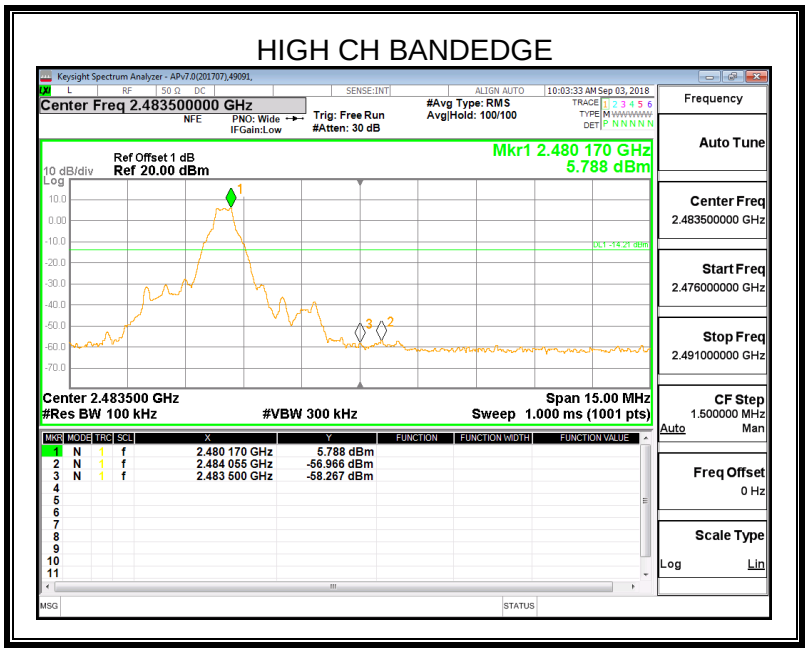


MID CH SPURIOUS

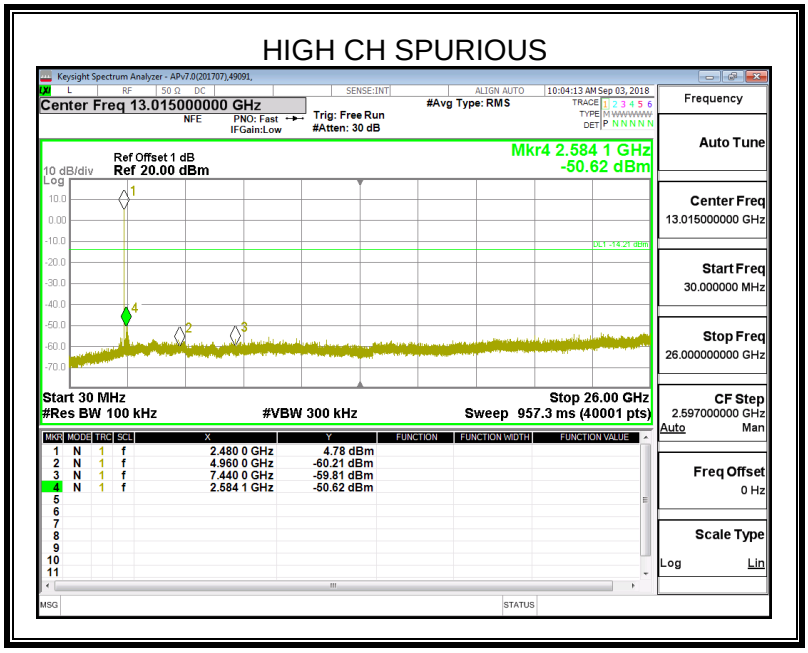


SPURIOUS EMISSIONS, HIGH CHANNEL

HIGH CH BANDEDGE

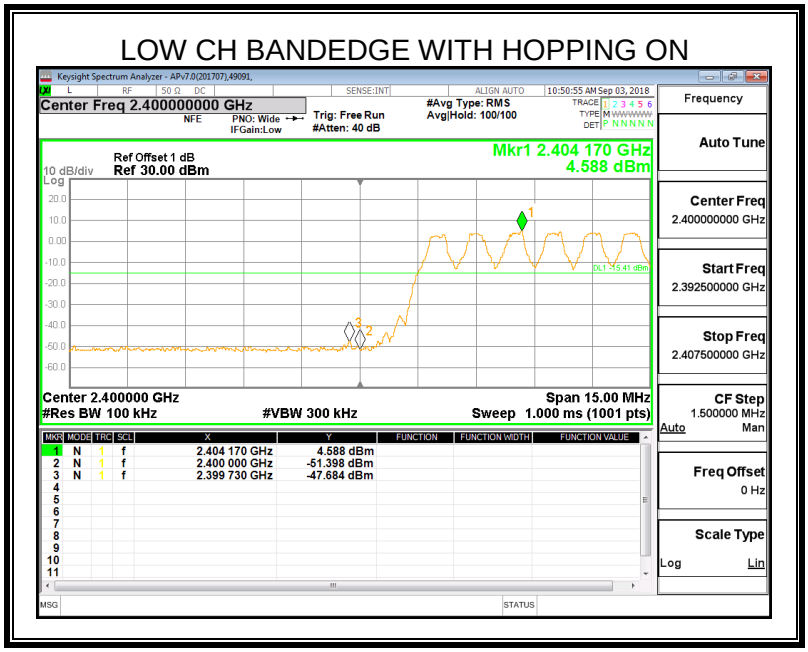


HIGH CH SPURIOUS

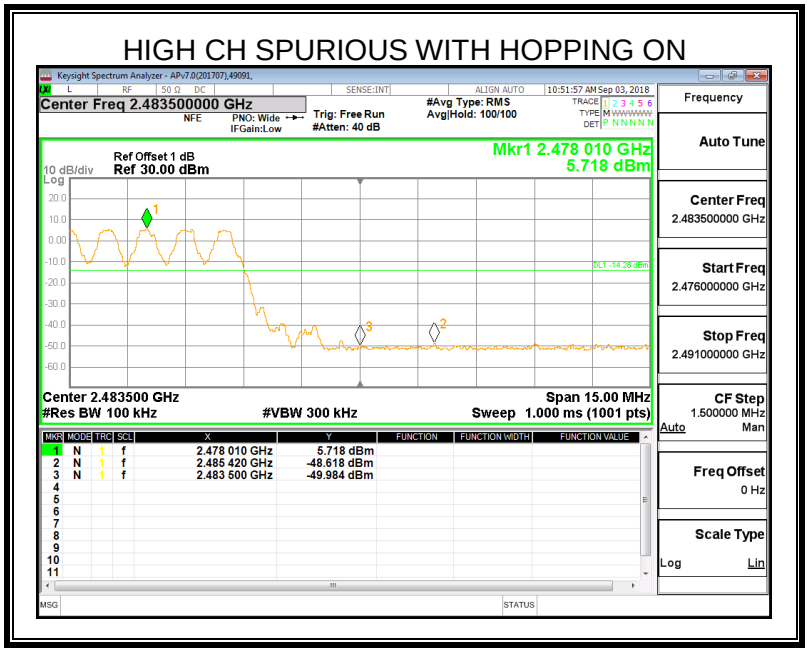


SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

LOW CH BANDEDGE WITH HOPPING ON



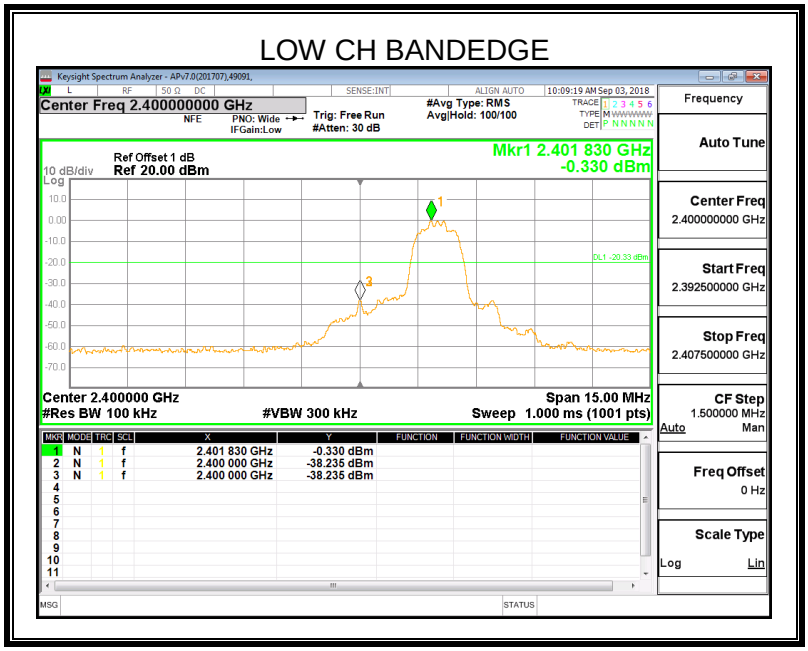
HIGH CH SPURIOUS WITH HOPPING ON



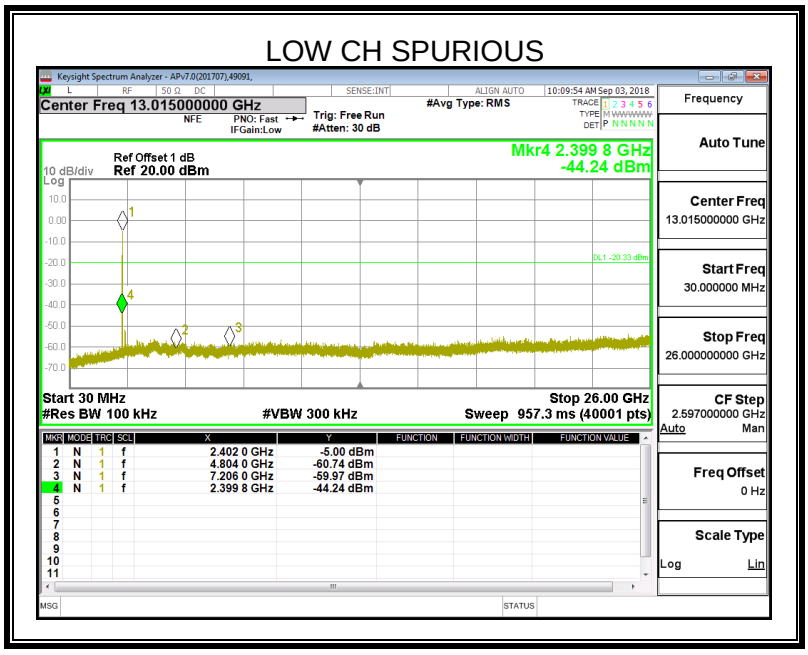
6.7.2. 8DPSK MODE

SPURIOUS EMISSIONS, LOW CHANNEL

LOW CH BANDEDGE

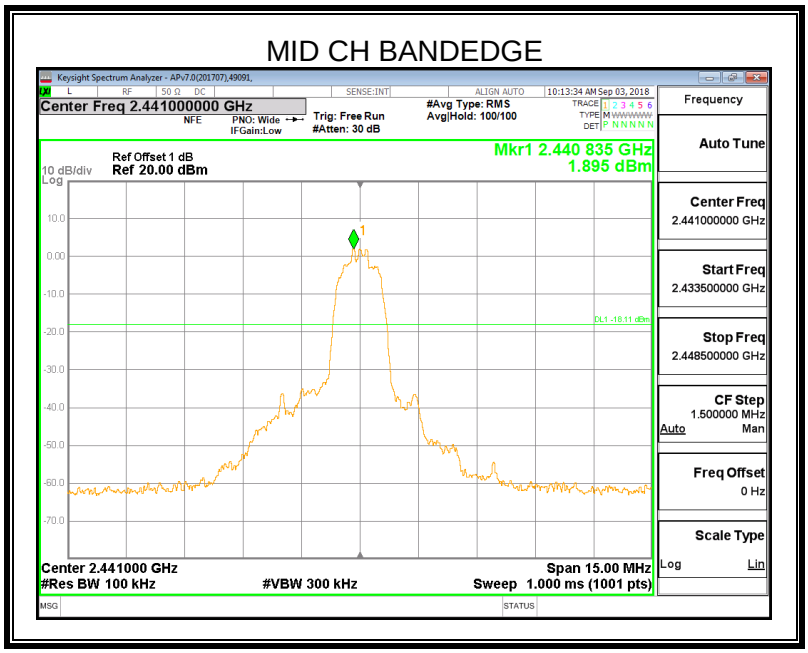


LOW CH SPURIOUS

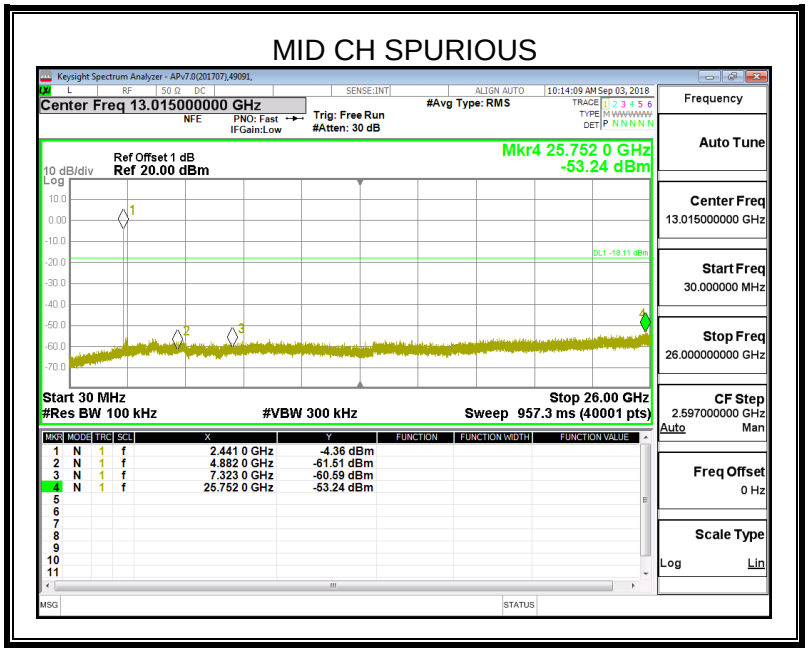


SPURIOUS EMISSIONS, MID CHANNEL

MID CH BANDEDGE

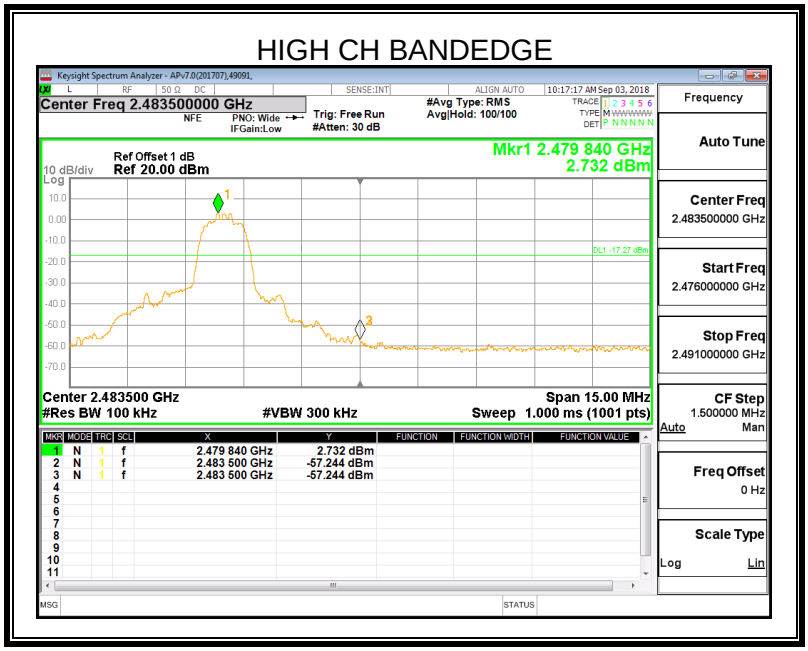


MID CH SPURIOUS

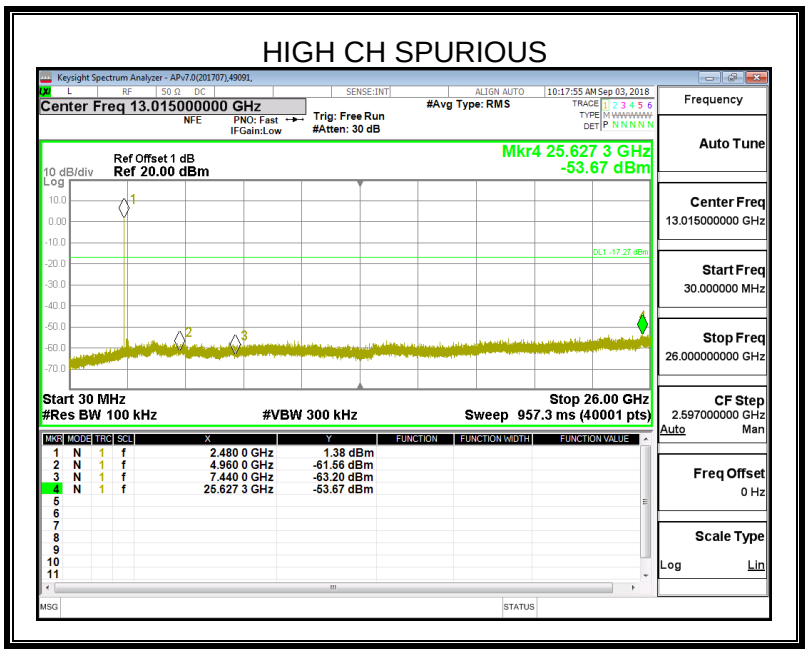


SPURIOUS EMISSIONS, HIGH CHANNEL

HIGH CH BANDEDGE

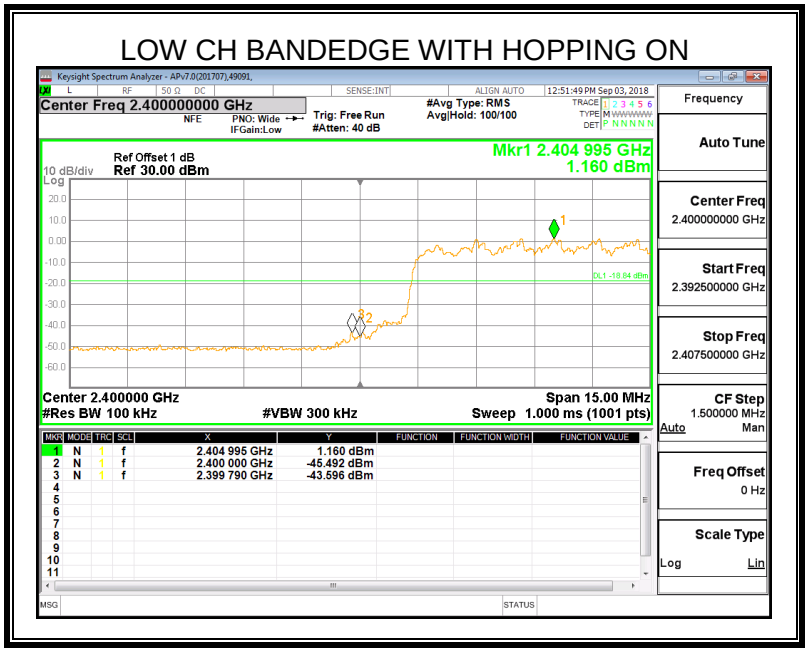


HIGH CH SPURIOUS

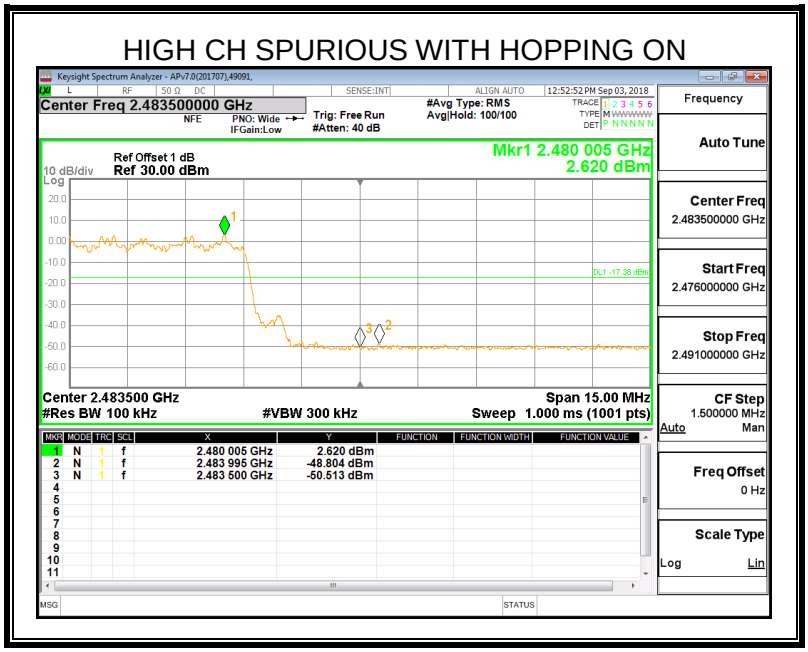


SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

LOW CH BANDEDGE WITH HOPPING ON



HIGH CH SPURIOUS WITH HOPPING ON



7. RADIATED TEST RESULTS

7.1. LIMITS AND PROCEDURE

LIMITS

Please refer to FCC §15.205 and §15.209

Please refer to RSS-GEN Clause 8.9 and Clause 8.10

Radiation Disturbance Test Limit for FCC (Class B)(9KHz-1GHz)

Frequency (MHz)	Field Strength (microvolts/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
960~1000	500	3

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

Radiation Disturbance Test Limit for FCC (Above 1G)

Frequency (MHz)	dB(uV/m) (at 3 meters)	
	Peak	Average
Above 1000	74	54

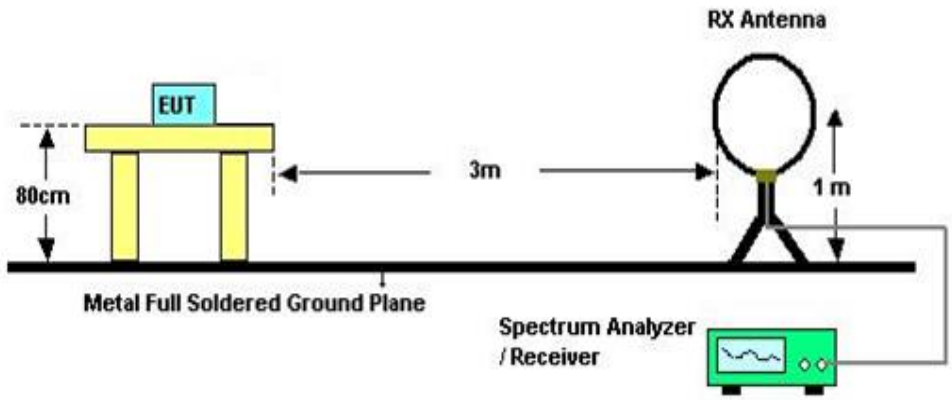
Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

Note: [1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2]Above 38.6c

TEST SETUP AND PROCEDURE

Below 30MHz



The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 and 414788 D01 Radiated Test Site v01.

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80cm meter above ground.

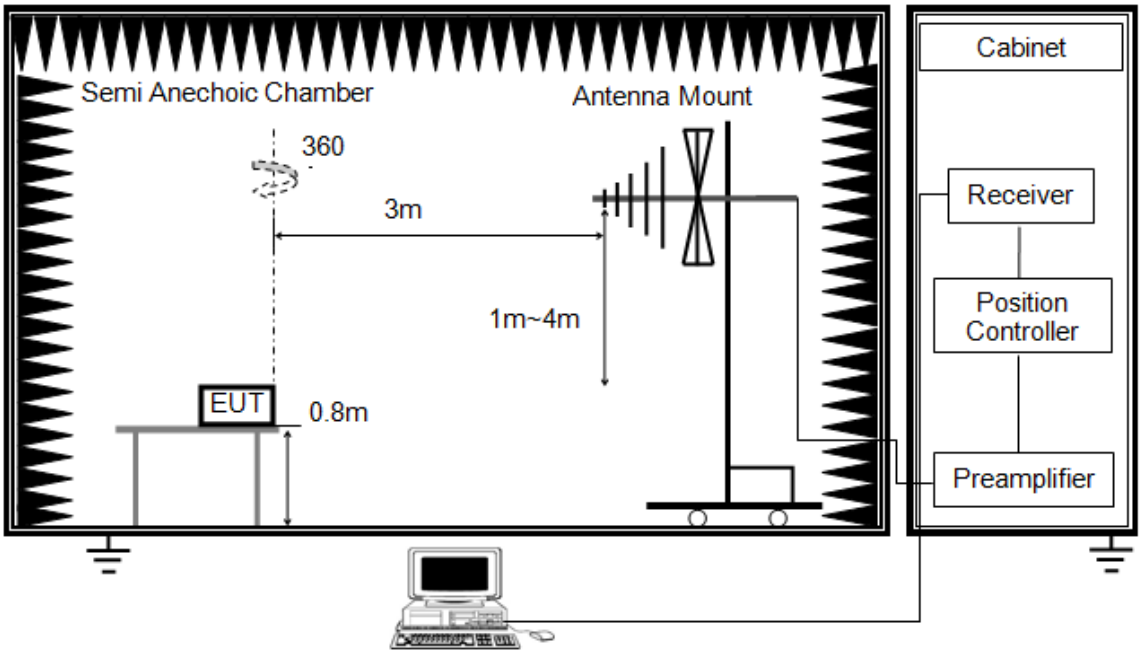
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1GHz, 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 emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

Below 1G and above 30MHz



The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

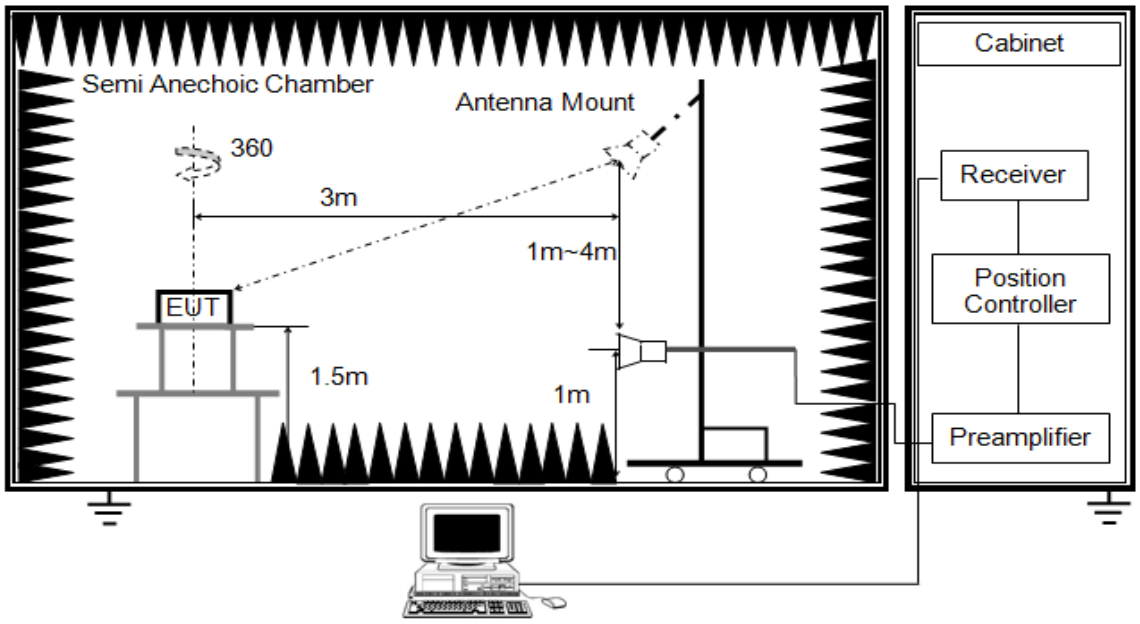
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, 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 emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1G



RBW	1M
VBW	PEAK: 3M AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

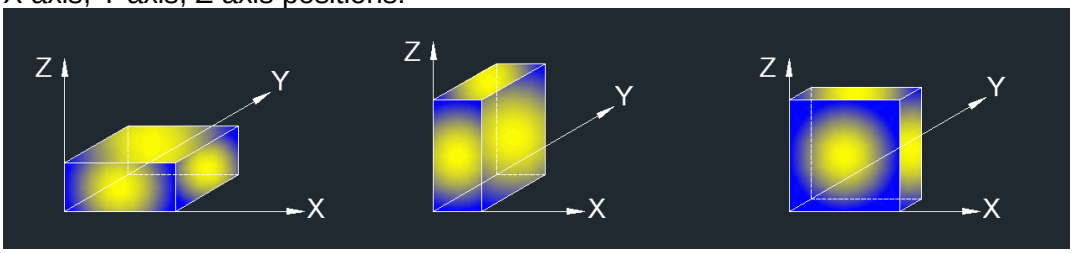
3. The EUT was placed on a turntable with 1.5m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For average power measurement, set the Detector to RMS, the detector and averaging type may be set for linear voltage averaging, while maintaining all of the other instrument settings, if the duty cycle of the EUT is less than 98%, the Duty Cycle Correction Factor shall be added to the measured emission levels. For the Duty Cycle and Correction Factor please refer to clause 6.1.ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note: The EUT is not a portable devices and used at one axis X only.

TEST ENVIRONMENT

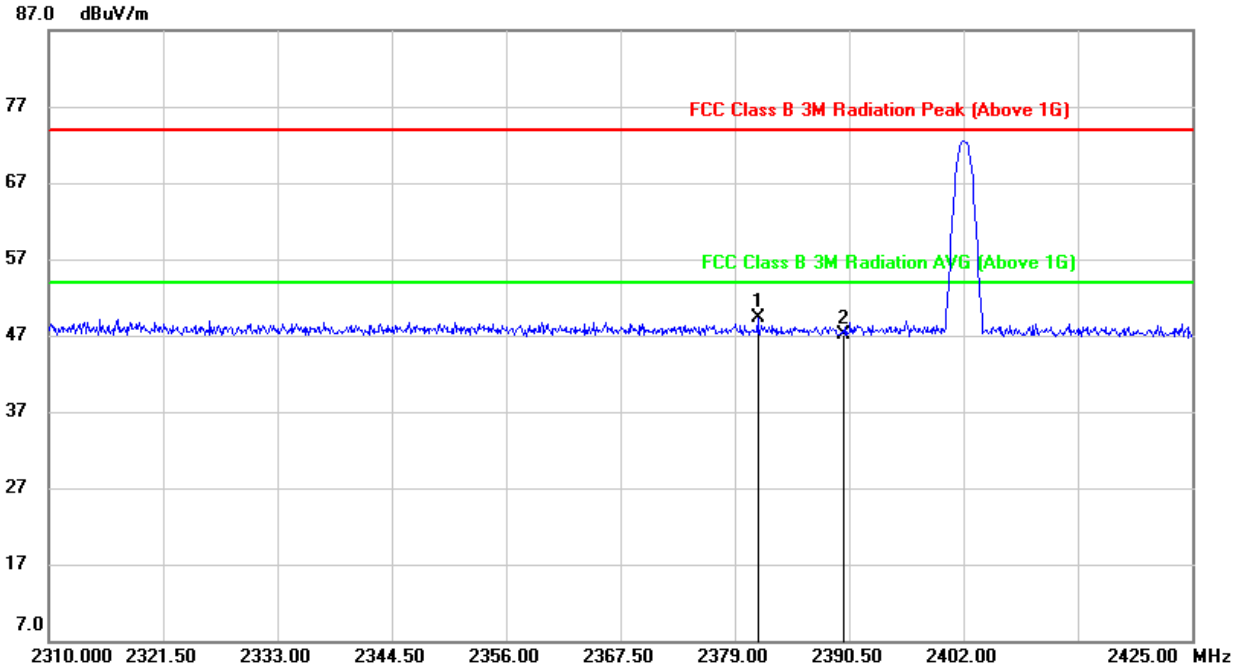
Temperature	23.3°C	Relative Humidity	66%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

RESULTS

7.2. RESTRICTED BANDEDGE

7.2.1. GFSK MODE

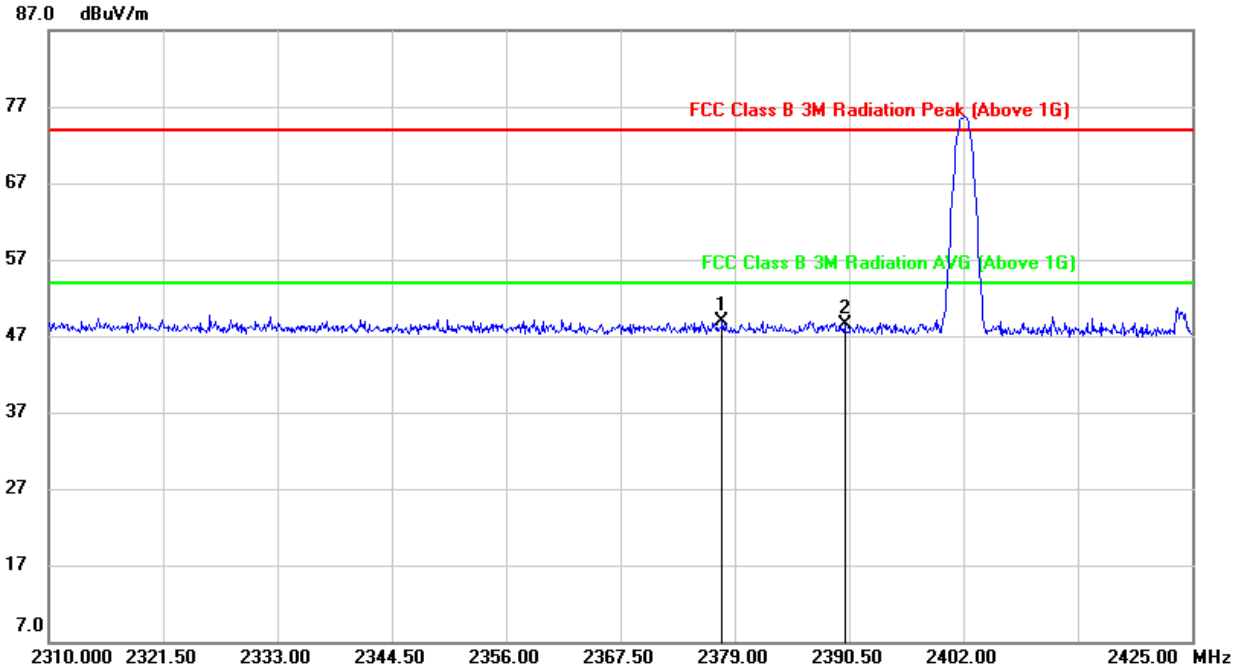
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2381.300	16.09	33.20	49.29	74.00	-24.71	peak
2	2390.000	14.02	33.14	47.16	74.00	-26.84	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

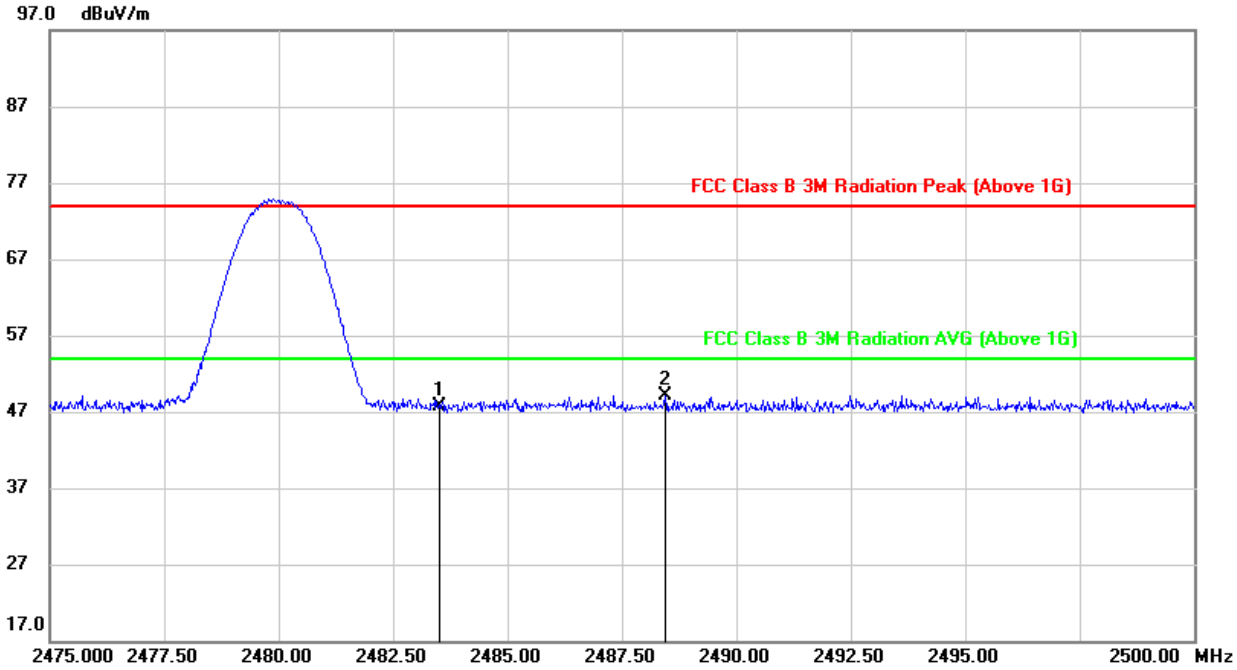
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2377.735	15.65	33.33	48.98	74.00	-25.02	peak
2	2390.000	15.29	33.24	48.53	74.00	-25.47	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

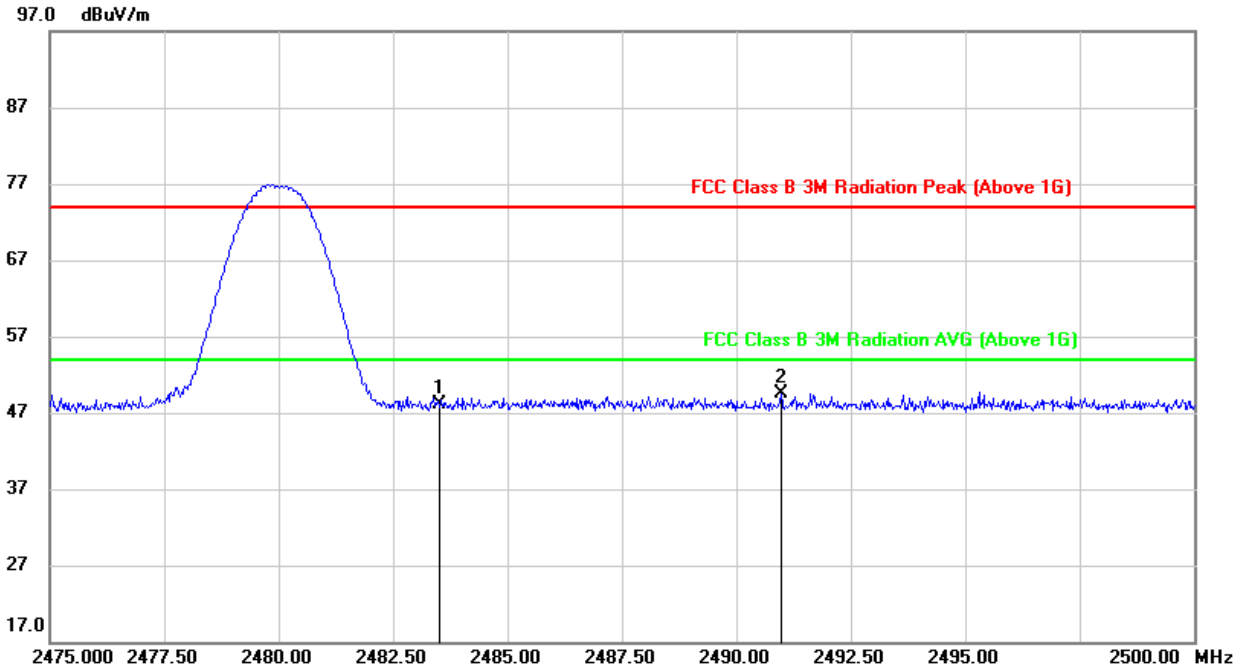
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	14.94	32.78	47.72	74.00	-26.28	peak
2	2488.450	16.23	32.78	49.01	74.00	-24.99	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

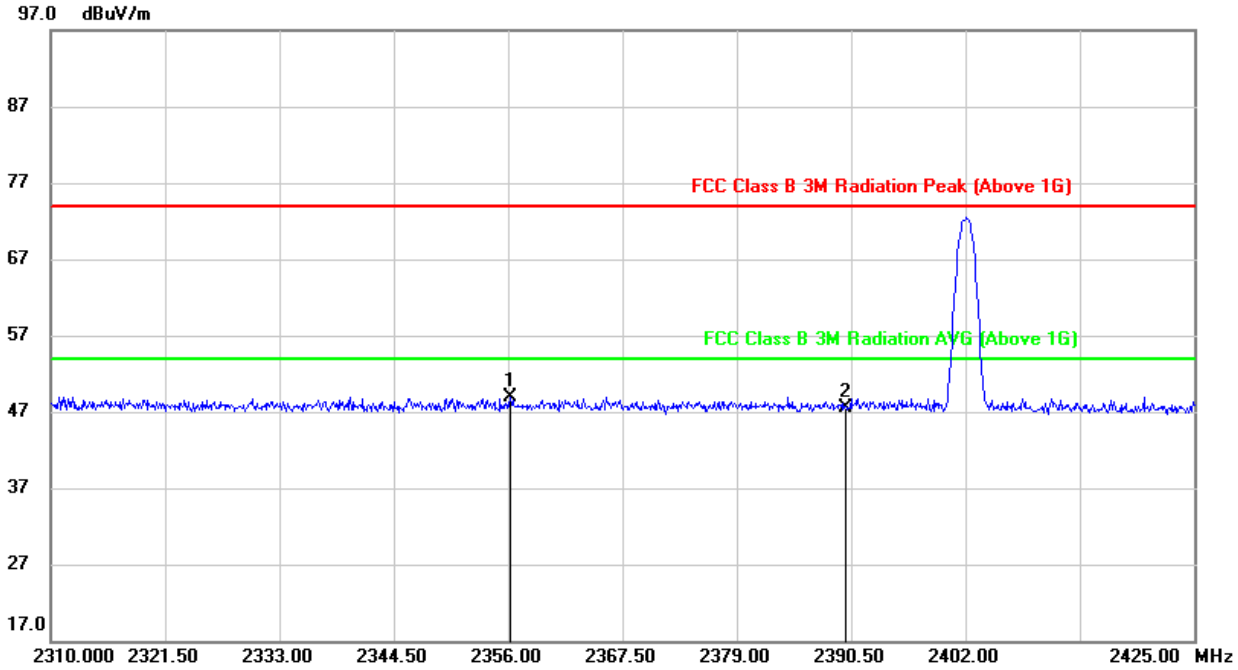


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.25	32.88	48.13	74.00	-25.87	peak
2	2490.975	16.66	32.88	49.54	74.00	-24.46	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

7.2.2. 8DPSK MODE

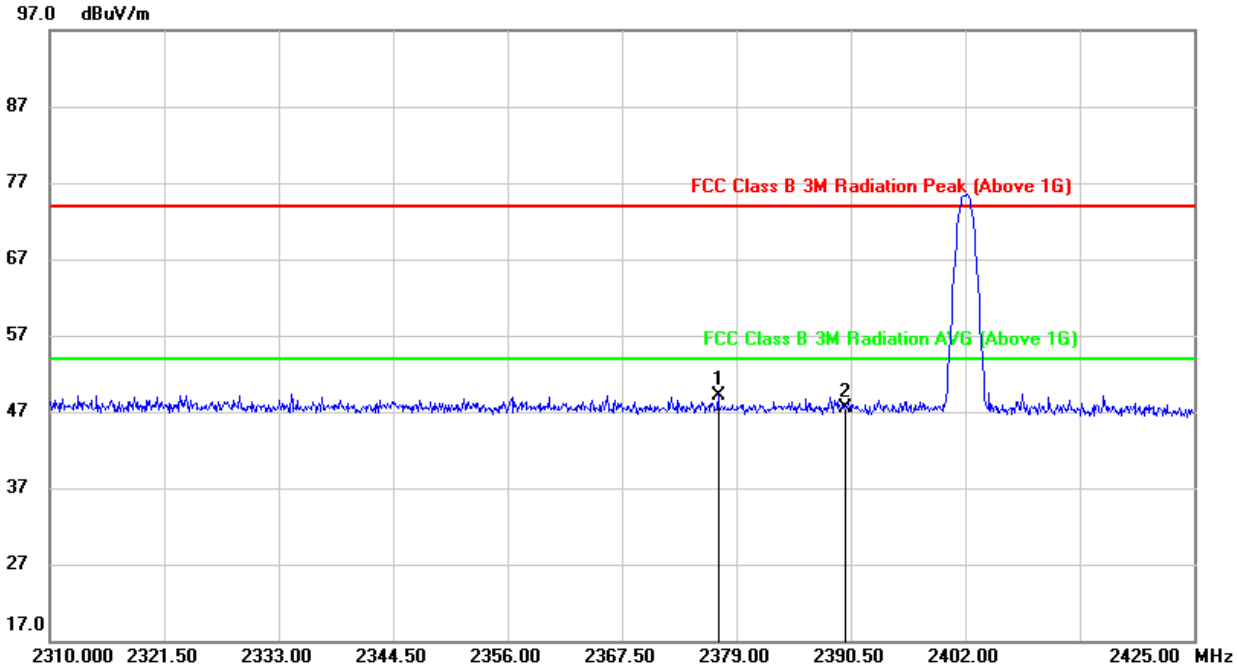
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2356.230	15.49	33.38	48.87	74.00	-25.13	peak
2	2390.000	14.30	33.14	47.44	74.00	-26.56	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

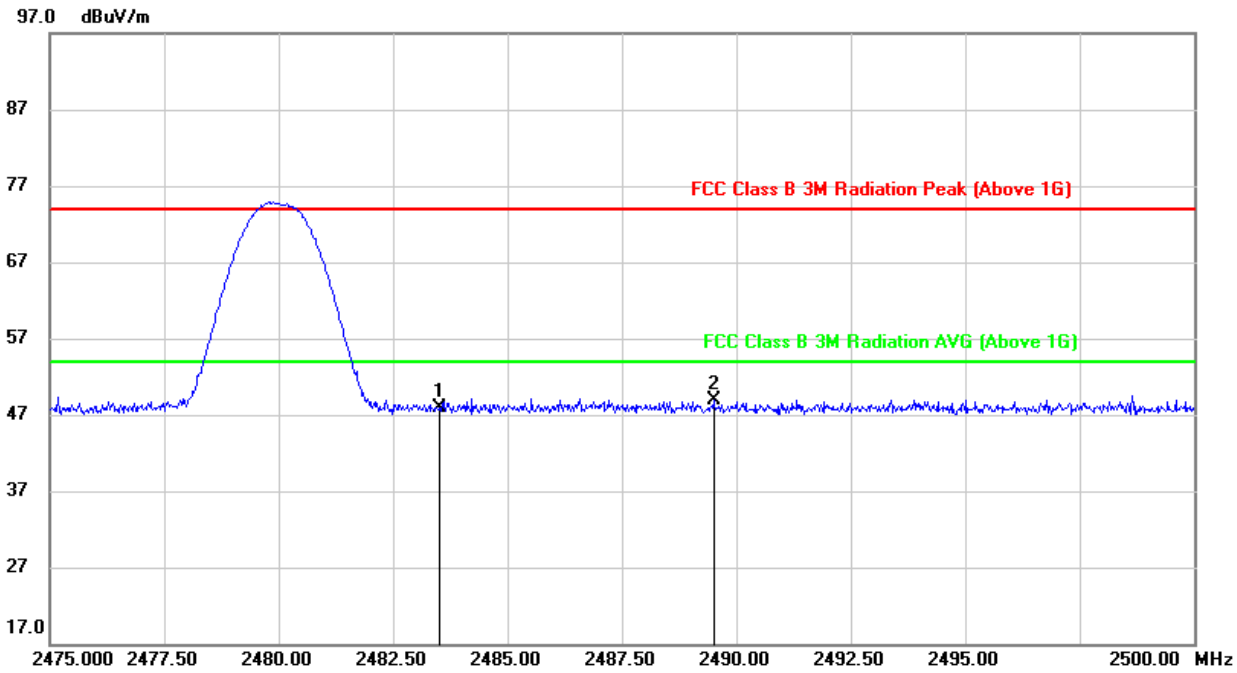
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2377.160	15.87	33.33	49.20	74.00	-24.80	peak
2	2390.000	14.17	33.24	47.41	74.00	-26.59	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

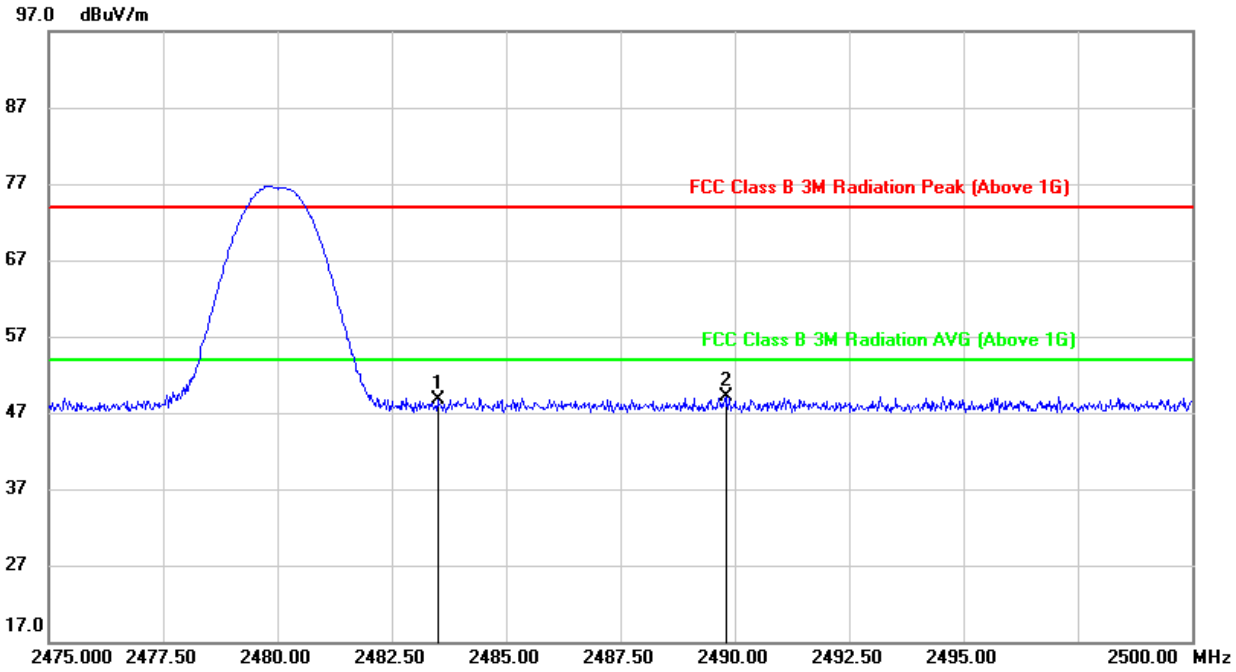
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.15	32.78	47.93	74.00	-26.07	peak
2	2489.500	16.03	32.78	48.81	74.00	-25.19	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	15.90	32.88	48.78	74.00	-25.22	peak
2	2489.800	16.20	32.88	49.08	74.00	-24.92	peak

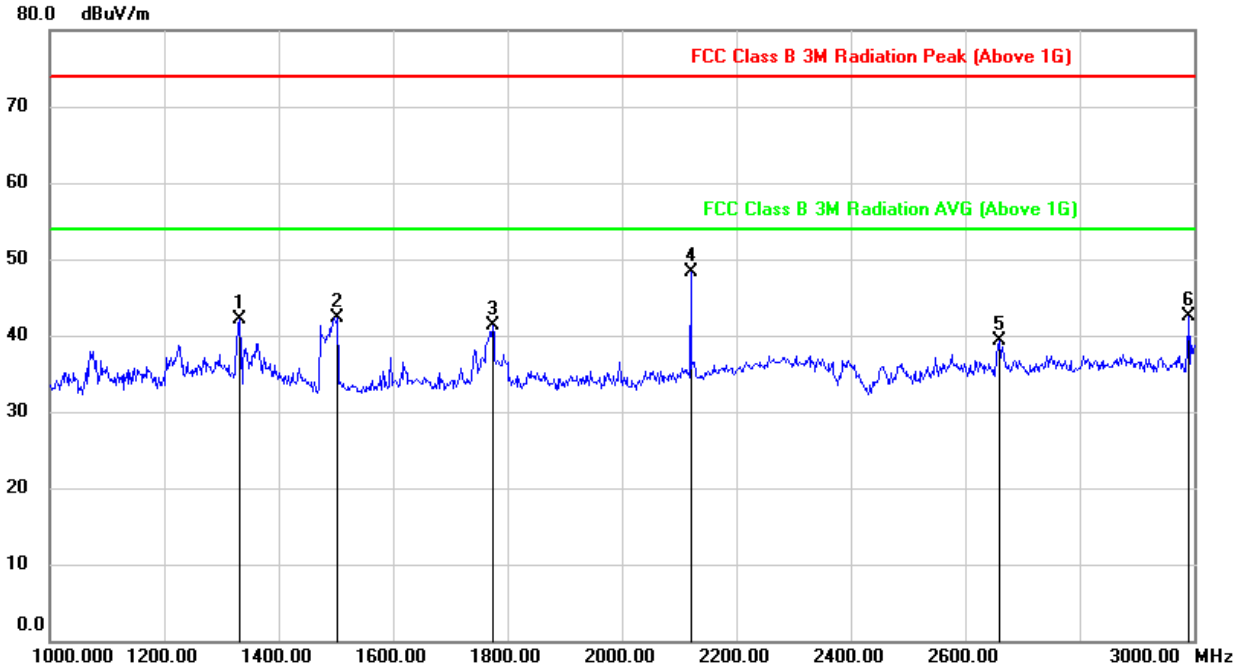
Note: 1. Measurement = Reading Level + Correct Factor.
2. Only the worst case emission recorded in the report, if Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

7.3. SPURIOUS EMISSIONS (1~18GHz)

7.3.1. GFSK MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

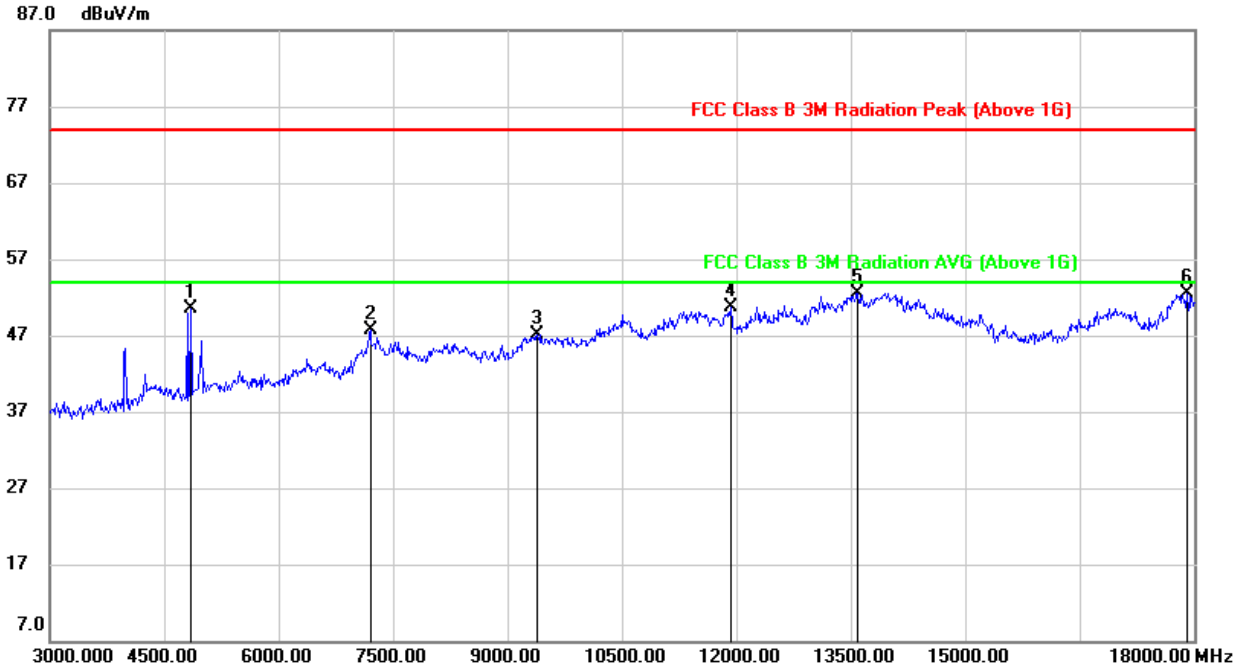
1-3G



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1332.000	54.43	-12.37	42.06	74.00	-31.94	peak
2	1502.000	54.55	-12.19	42.36	74.00	-31.64	peak
3	1774.000	52.48	-11.21	41.27	74.00	-32.73	peak
4	2120.000	57.56	-9.31	48.25	74.00	-25.75	peak
5	2660.000	47.04	-7.80	39.24	74.00	-34.76	peak
6	2990.000	49.07	-6.59	42.48	74.00	-31.52	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

3-18G

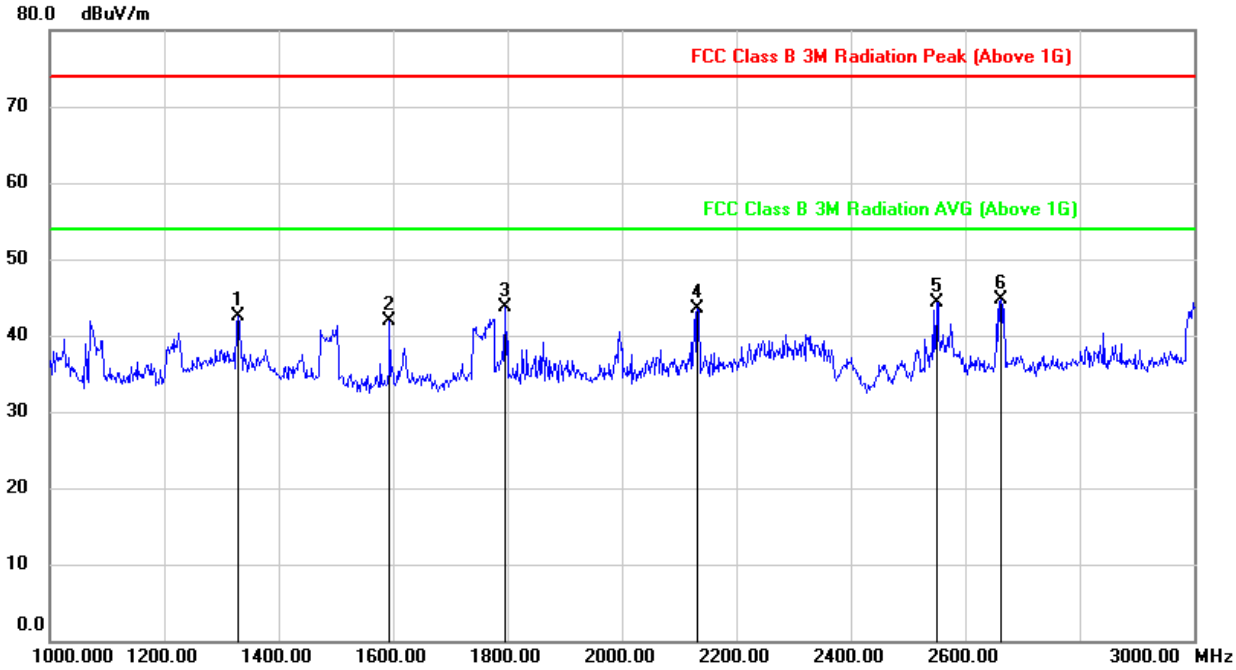


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4845.000	50.51	0.00	50.51	74.00	-23.49	peak
2	7200.000	39.91	7.75	47.66	74.00	-26.34	peak
3	9390.000	36.20	10.82	47.02	74.00	-26.98	peak
4	11925.000	33.89	16.74	50.63	74.00	-23.37	peak
5	13590.000	32.08	20.51	52.59	74.00	-21.41	peak
6	17910.000	26.19	26.37	52.56	74.00	-21.44	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

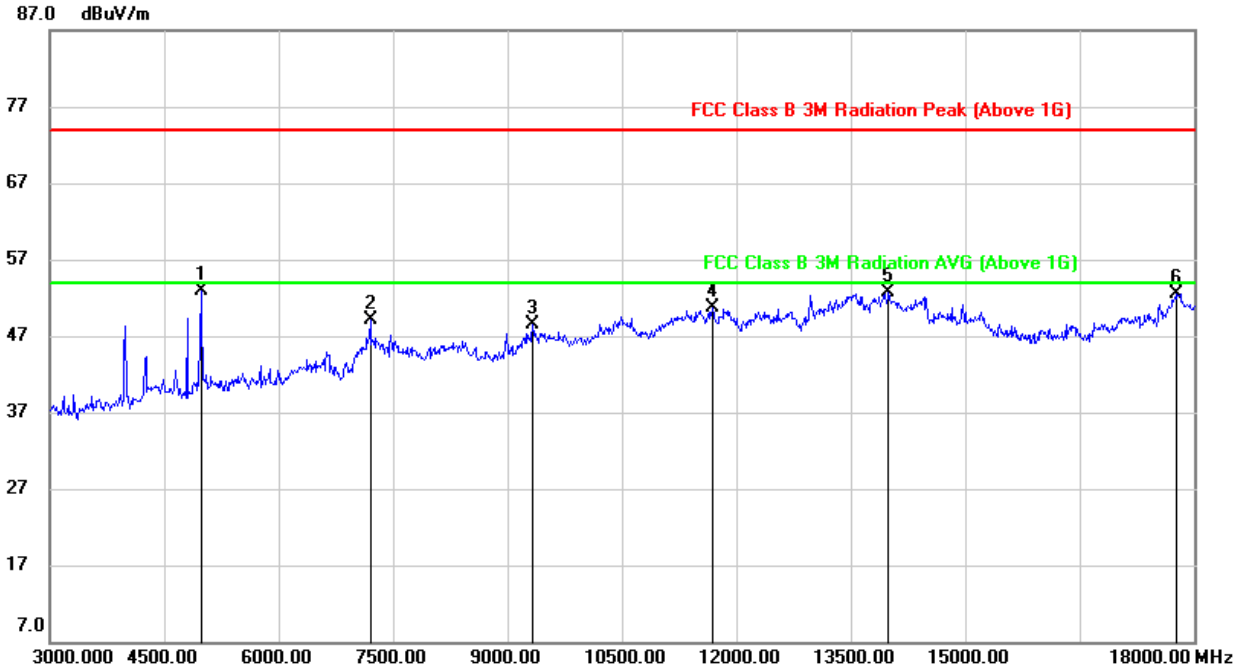
1-3G



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1328.000	55.06	-12.51	42.55	74.00	-31.45	peak
2	1594.000	54.08	-12.08	42.00	74.00	-32.00	peak
3	1796.000	54.82	-11.14	43.68	74.00	-30.32	peak
4	2132.000	52.71	-9.26	43.45	74.00	-30.55	peak
5	2550.000	52.49	-8.25	44.24	74.00	-29.76	peak
6	2662.000	52.66	-7.87	44.79	74.00	-29.21	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

3-18G

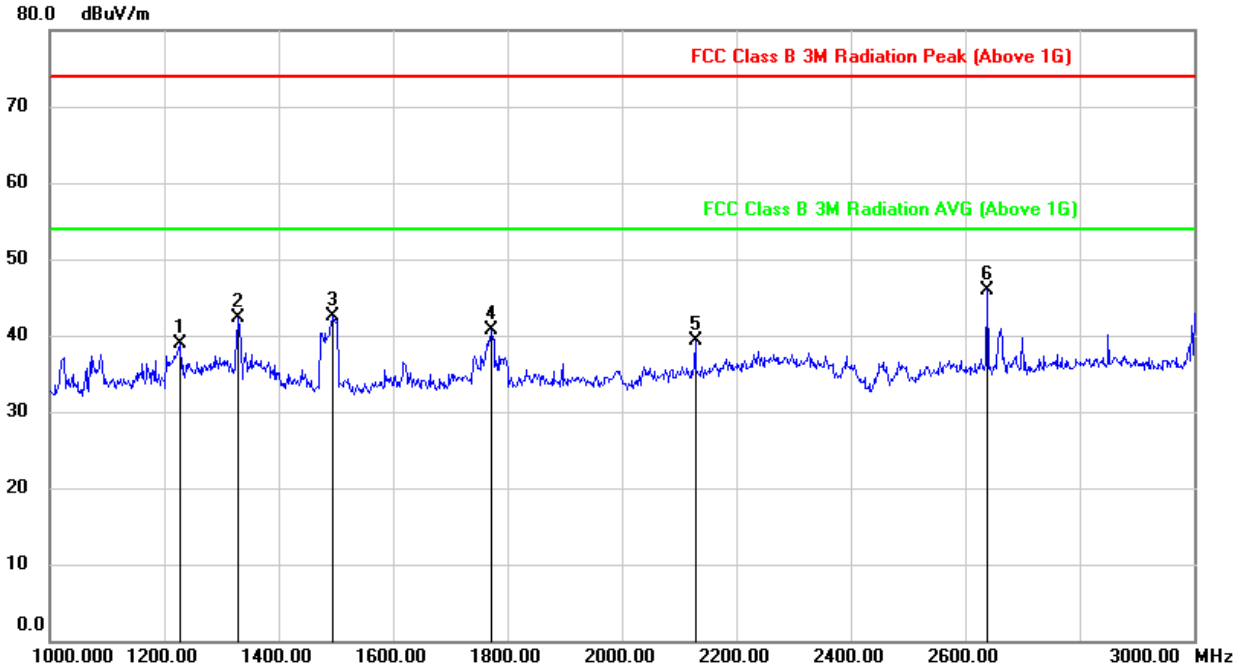


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4980.000	52.24	0.58	52.82	74.00	-21.18	peak
2	7200.000	41.34	7.85	49.19	74.00	-24.81	peak
3	9330.000	37.57	10.91	48.48	74.00	-25.52	peak
4	11685.000	34.25	16.55	50.80	74.00	-23.20	peak
5	13995.000	32.08	20.72	52.80	74.00	-21.20	peak
6	17775.000	25.99	26.57	52.56	74.00	-21.44	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

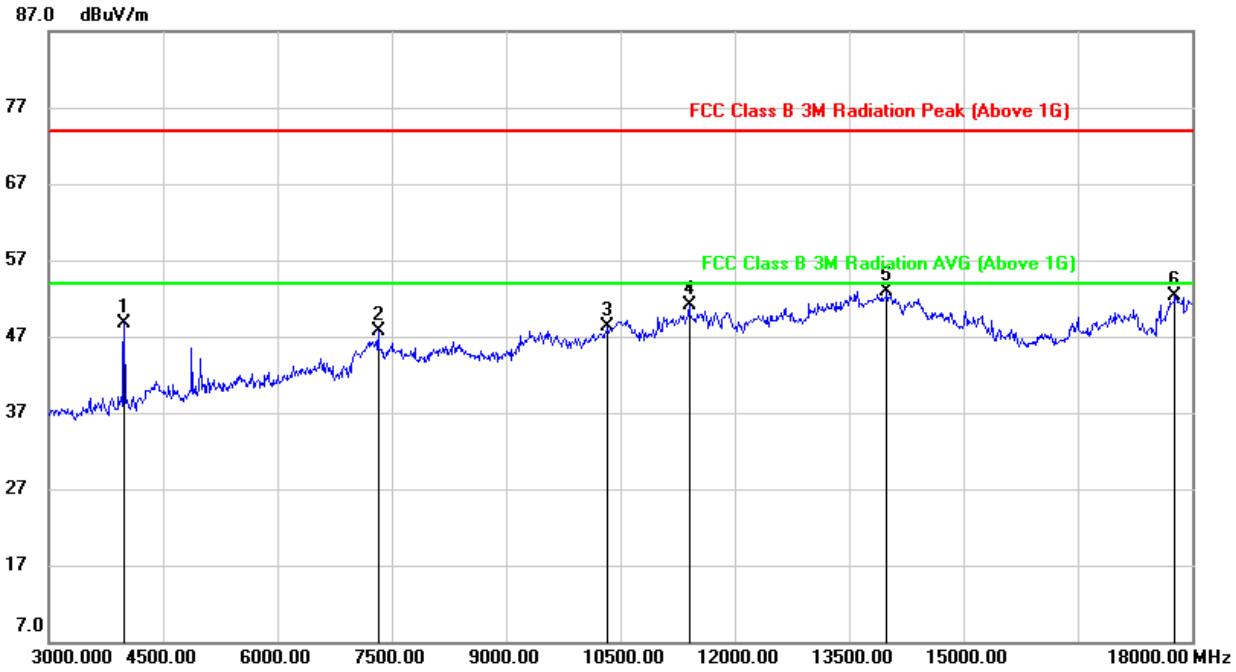
1-3G



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1228.000	51.75	-12.93	38.82	74.00	-35.18	peak
2	1330.000	54.64	-12.38	42.26	74.00	-31.74	peak
3	1494.000	54.62	-12.19	42.43	74.00	-31.57	peak
4	1772.000	51.90	-11.22	40.68	74.00	-33.32	peak
5	2128.000	48.51	-9.21	39.30	74.00	-34.70	peak
6	2638.000	53.87	-7.92	45.95	74.00	-28.05	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

3-18G

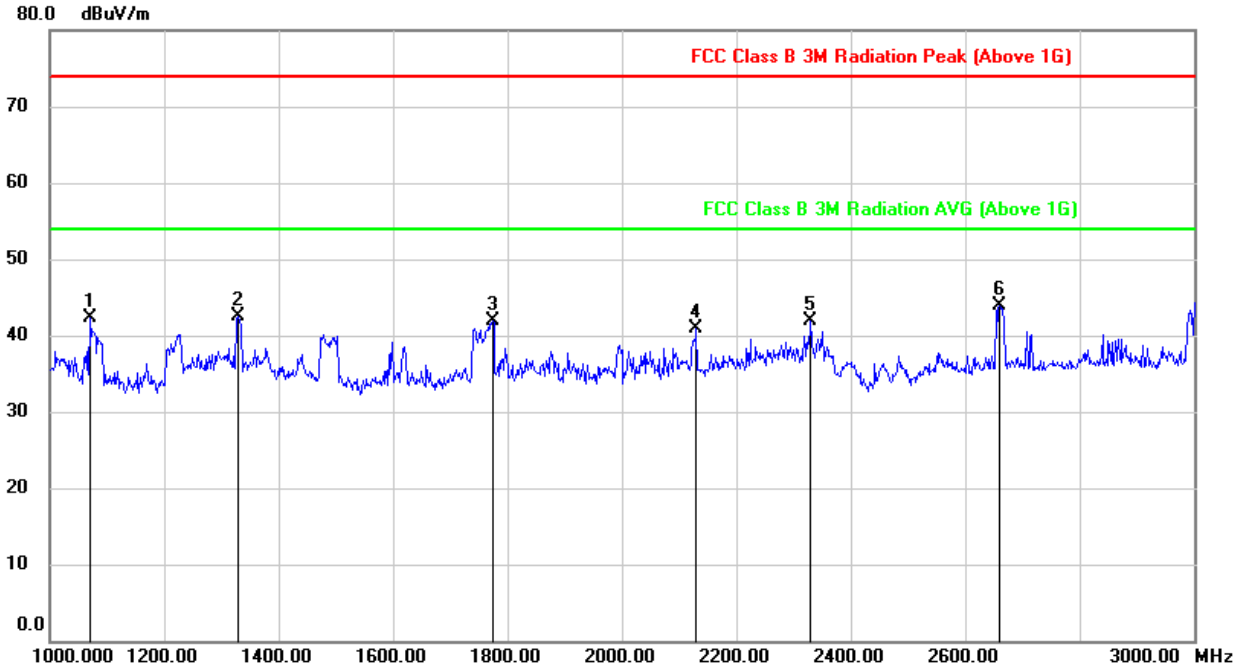


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	51.71	-3.00	48.71	74.00	-25.29	peak
2	7320.000	40.16	7.63	47.79	74.00	-26.21	peak
3	10335.000	35.55	12.68	48.23	74.00	-25.77	peak
4	11400.000	35.41	15.69	51.10	74.00	-22.90	peak
5	13995.000	32.36	20.62	52.98	74.00	-21.02	peak
6	17775.000	26.19	26.17	52.36	74.00	-21.64	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

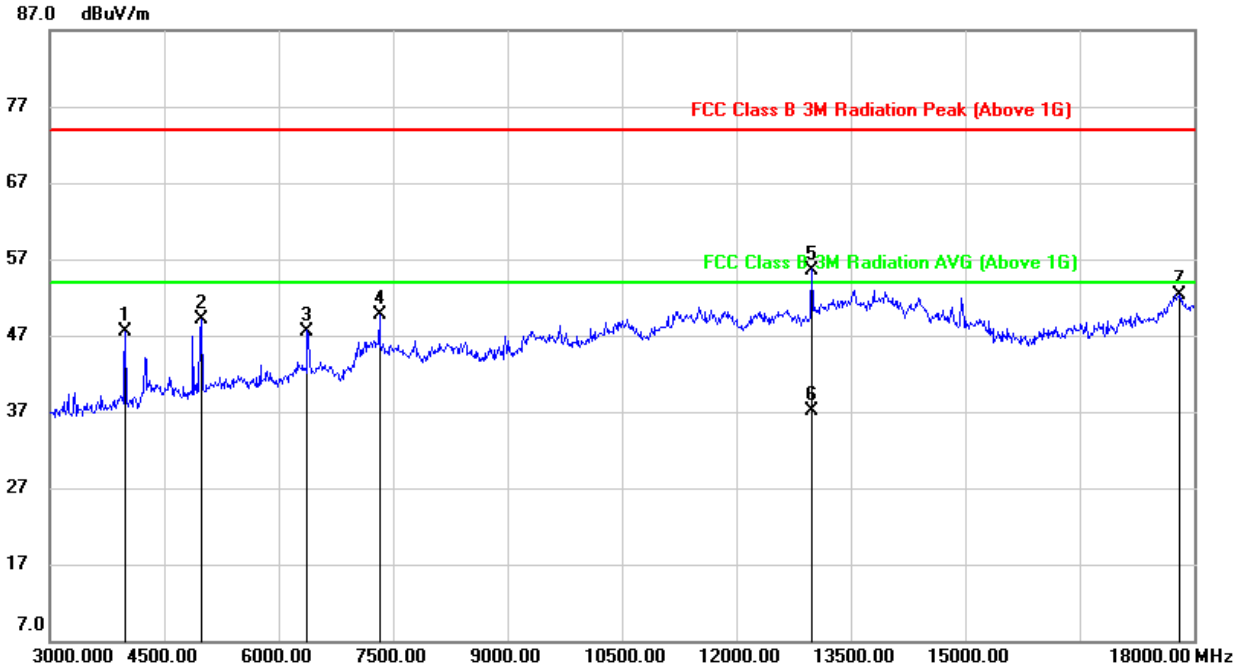
1-3G



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1070.000	56.18	-13.91	42.27	74.00	-31.73	peak
2	1328.000	55.06	-12.51	42.55	74.00	-31.45	peak
3	1774.000	53.05	-11.21	41.84	74.00	-32.16	peak
4	2130.000	50.25	-9.28	40.97	74.00	-33.03	peak
5	2330.000	49.41	-7.47	41.94	74.00	-32.06	peak
6	2660.000	51.85	-7.88	43.97	74.00	-30.03	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

3-18G

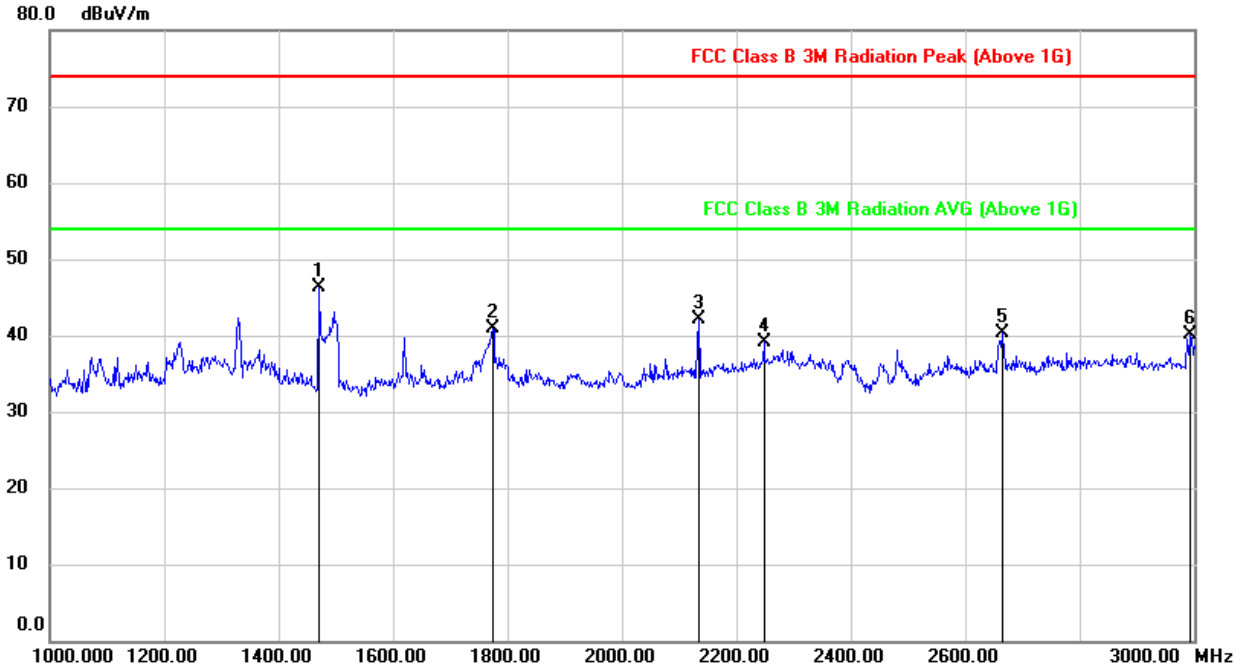


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	50.47	-3.00	47.47	74.00	-26.53	peak
2	4980.000	48.58	0.58	49.16	74.00	-24.84	peak
3	6375.000	42.90	4.70	47.60	74.00	-26.40	peak
4	7320.000	41.98	7.67	49.65	74.00	-24.35	peak
5	12990.000	36.78	18.82	55.60	74.00	-18.40	peak
6	12990.000	18.34	19.91	38.25	54.00	-15.75	AVG
7	17805.000	25.60	26.80	52.40	74.00	-21.60	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
3. Peak: Peak detector.
4. AVG: RMS detector, the detector and averaging type may be set for linear voltage averaging.
5. DCCF: Duty Cycle Correction Factor (Please refer to clause 8.1.ON TIME AND DUTY CYCLE)
6. The DCCF already added in Correct Factor.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

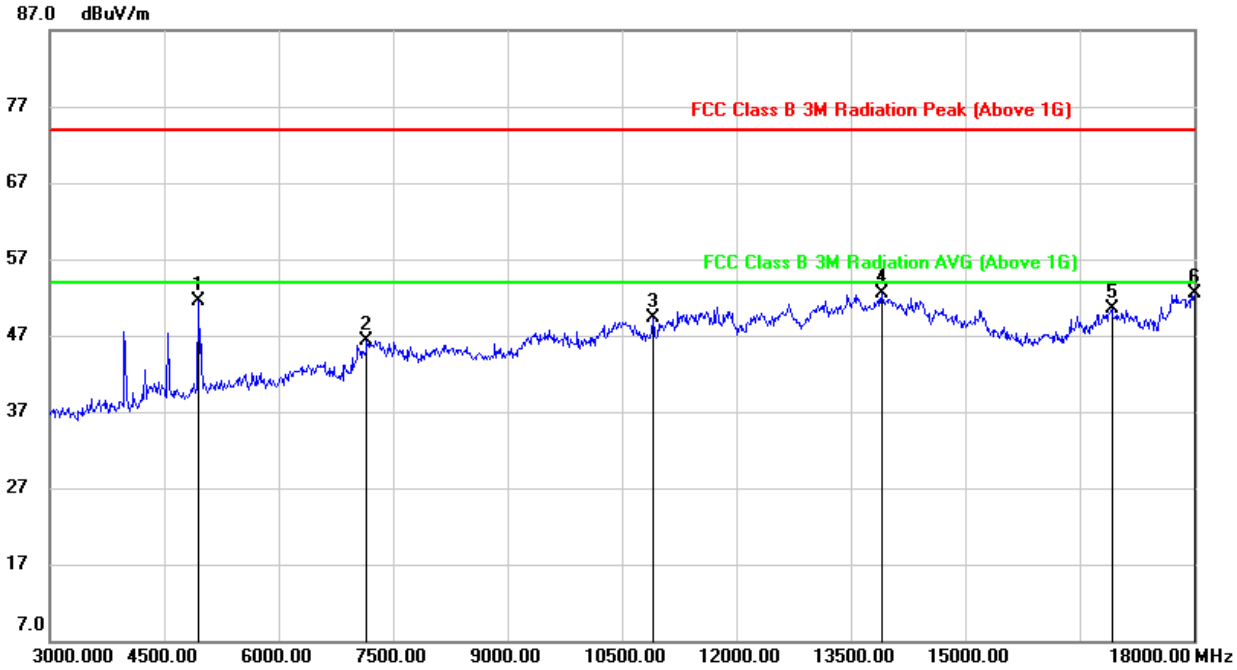
1-3G



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1470.000	58.58	-12.24	46.34	74.00	-27.66	peak
2	1774.000	52.16	-11.21	40.95	74.00	-33.05	peak
3	2134.000	51.31	-9.13	42.18	74.00	-31.82	peak
4	2248.000	46.72	-7.63	39.09	74.00	-34.91	peak
5	2664.000	48.15	-7.78	40.37	74.00	-33.63	peak
6	2992.000	46.79	-6.59	40.20	74.00	-33.80	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

3-18G

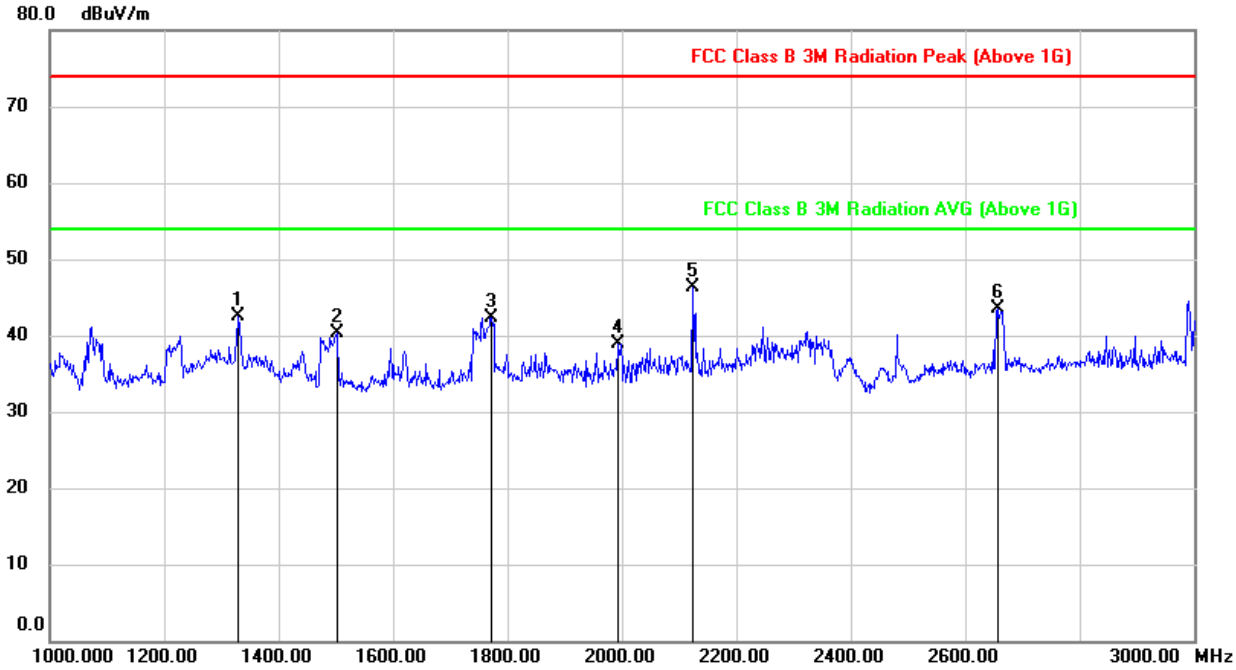


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4950.000	50.98	0.59	51.57	74.00	-22.43	peak
2	7155.000	38.63	7.70	46.33	74.00	-27.67	peak
3	10905.000	35.23	14.00	49.23	74.00	-24.77	peak
4	13905.000	31.83	20.65	52.48	74.00	-21.52	peak
5	16920.000	29.25	21.20	50.45	74.00	-23.55	peak
6	18000.000	25.40	27.06	52.46	74.00	-21.54	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

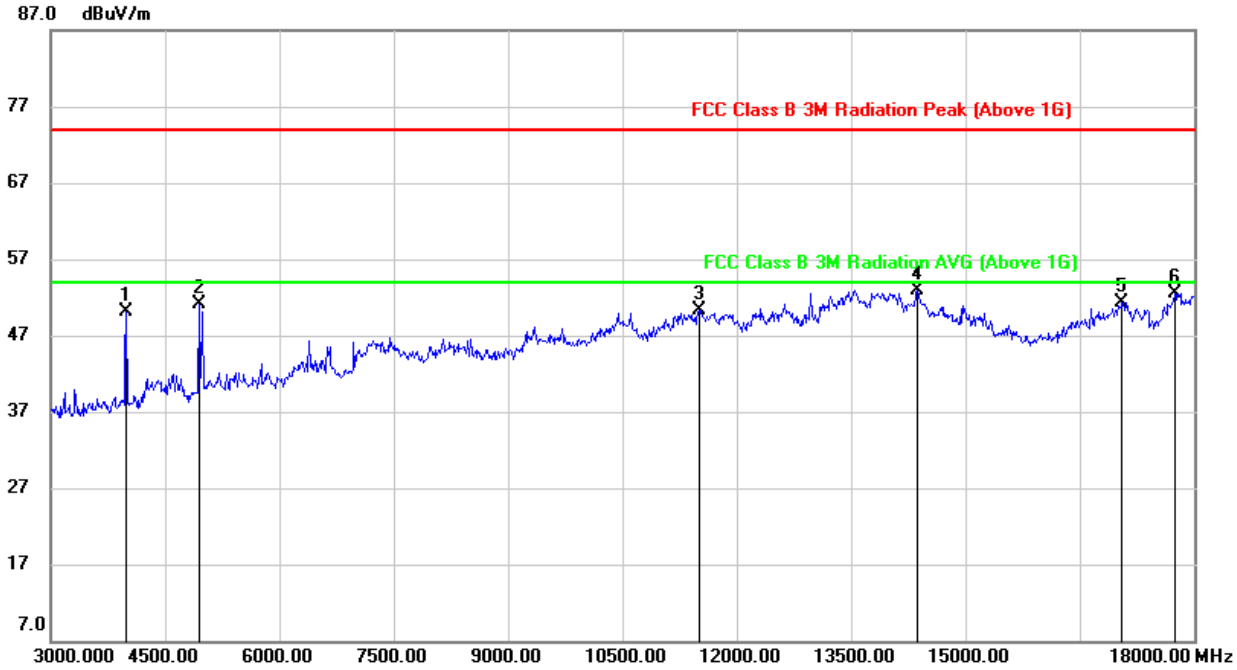
1-3G



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1330.000	55.01	-12.50	42.51	74.00	-31.49	peak
2	1502.000	52.62	-12.28	40.34	74.00	-33.66	peak
3	1772.000	53.62	-11.22	42.40	74.00	-31.60	peak
4	1994.000	49.51	-10.65	38.86	74.00	-35.14	peak
5	2124.000	55.66	-9.36	46.30	74.00	-27.70	peak
6	2658.000	51.48	-7.90	43.58	74.00	-30.42	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

3-18G



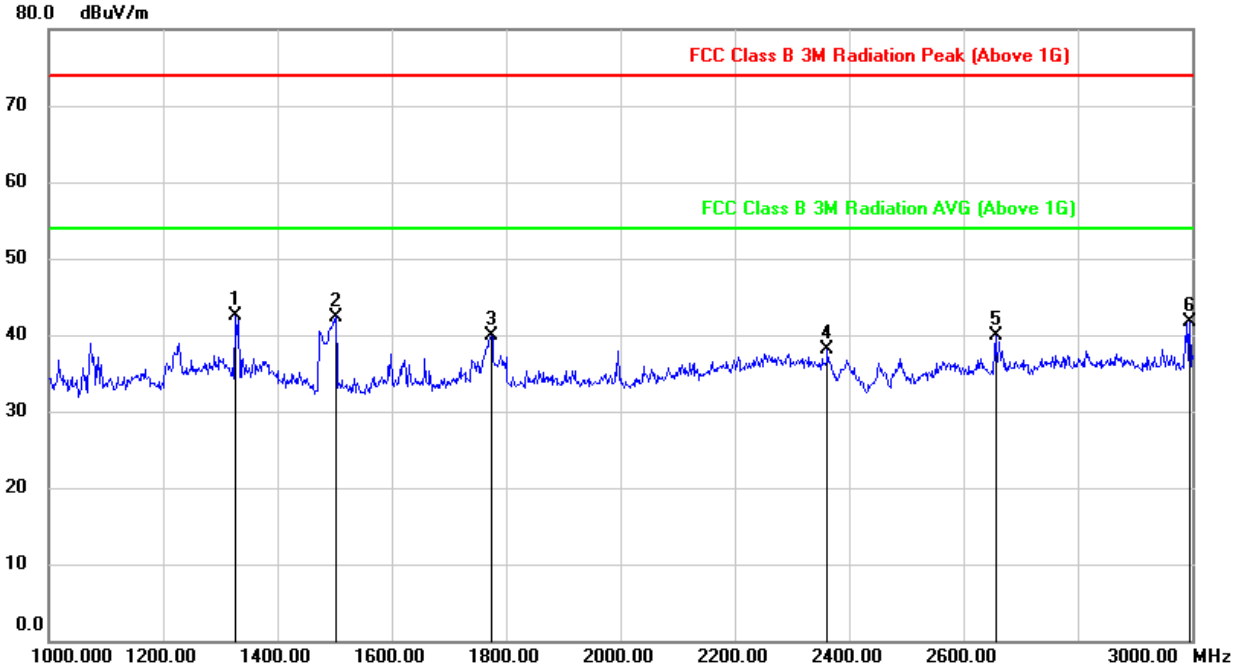
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	53.07	-3.00	50.07	74.00	-23.93	peak
2	4950.000	50.53	0.59	51.12	74.00	-22.88	peak
3	11505.000	34.11	16.26	50.37	74.00	-23.63	peak
4	14370.000	32.61	20.34	52.95	74.00	-21.05	peak
5	17055.000	28.68	22.68	51.36	74.00	-22.64	peak
6	17745.000	26.35	26.21	52.56	74.00	-21.44	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

7.3.2. 8DPSK MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

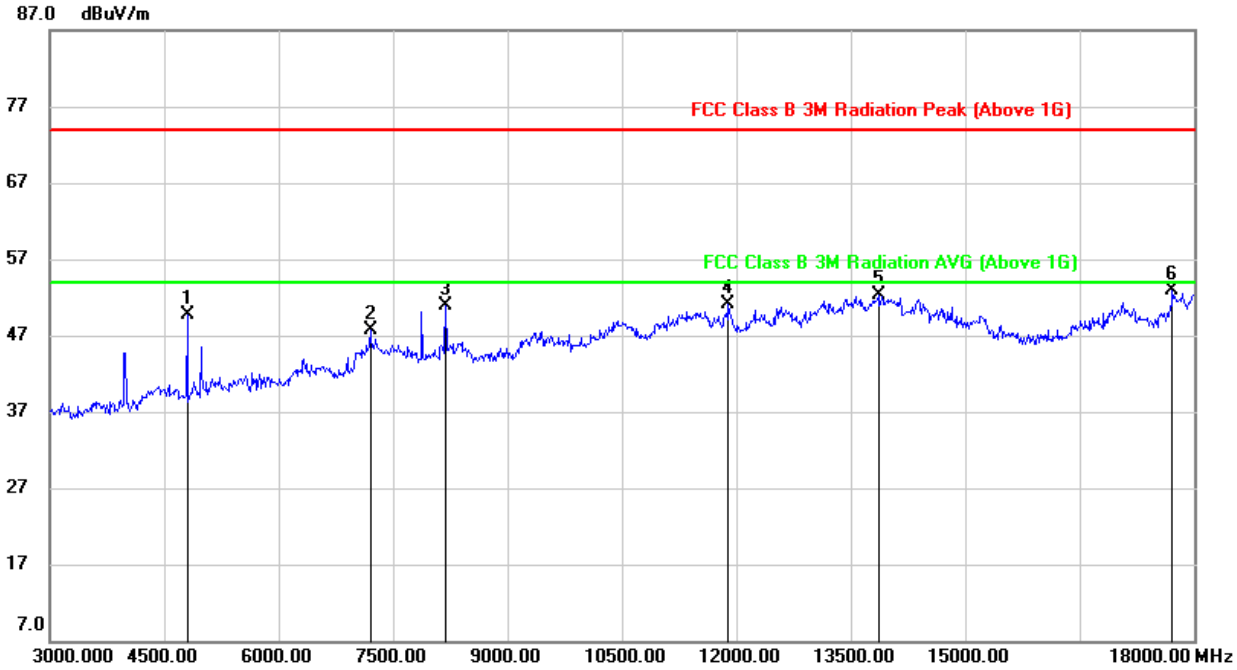
1-3G



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1326.000	54.83	-12.38	42.45	74.00	-31.55	peak
2	1502.000	54.59	-12.19	42.40	74.00	-31.60	peak
3	1774.000	51.11	-11.21	39.90	74.00	-34.10	peak
4	2362.000	45.89	-7.84	38.05	74.00	-35.95	peak
5	2656.000	47.64	-7.83	39.81	74.00	-34.19	peak
6	2996.000	48.28	-6.60	41.68	74.00	-32.32	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

3-18G

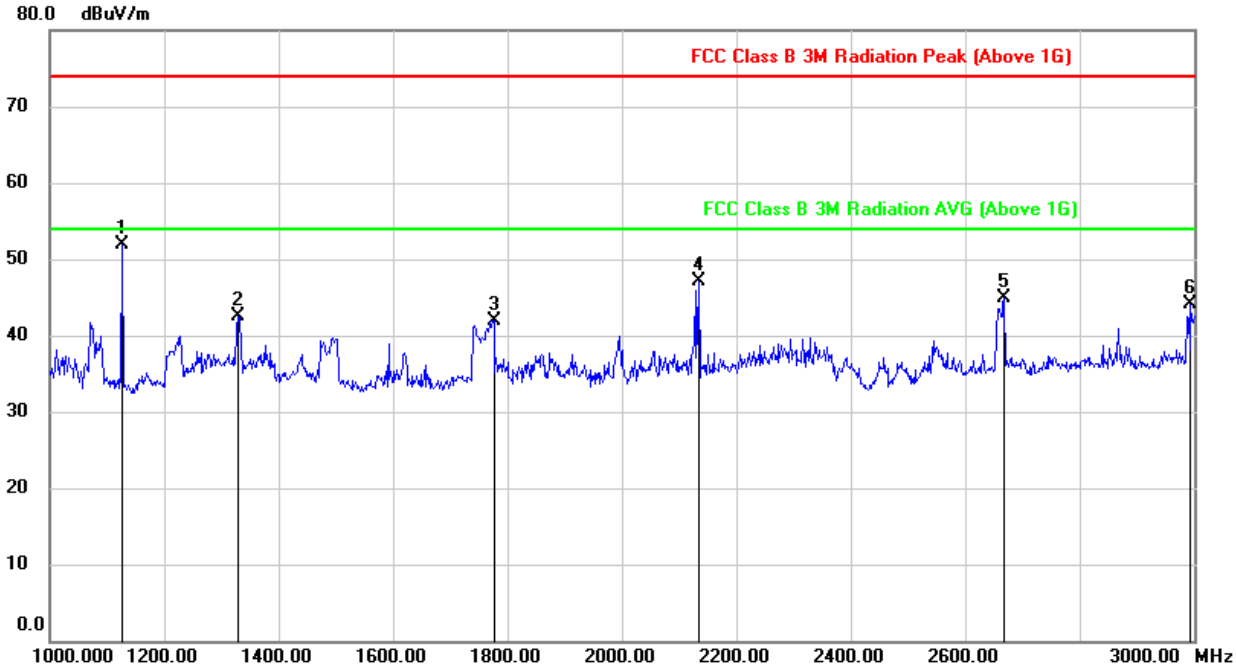


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4800.000	50.17	-0.56	49.61	74.00	-24.39	peak
2	7200.000	39.90	7.75	47.65	74.00	-26.35	peak
3	8190.000	42.03	8.80	50.83	74.00	-23.17	peak
4	11895.000	34.15	17.04	51.19	74.00	-22.81	peak
5	13860.000	31.59	20.72	52.31	74.00	-21.69	peak
6	17715.000	27.13	25.79	52.92	74.00	-21.08	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

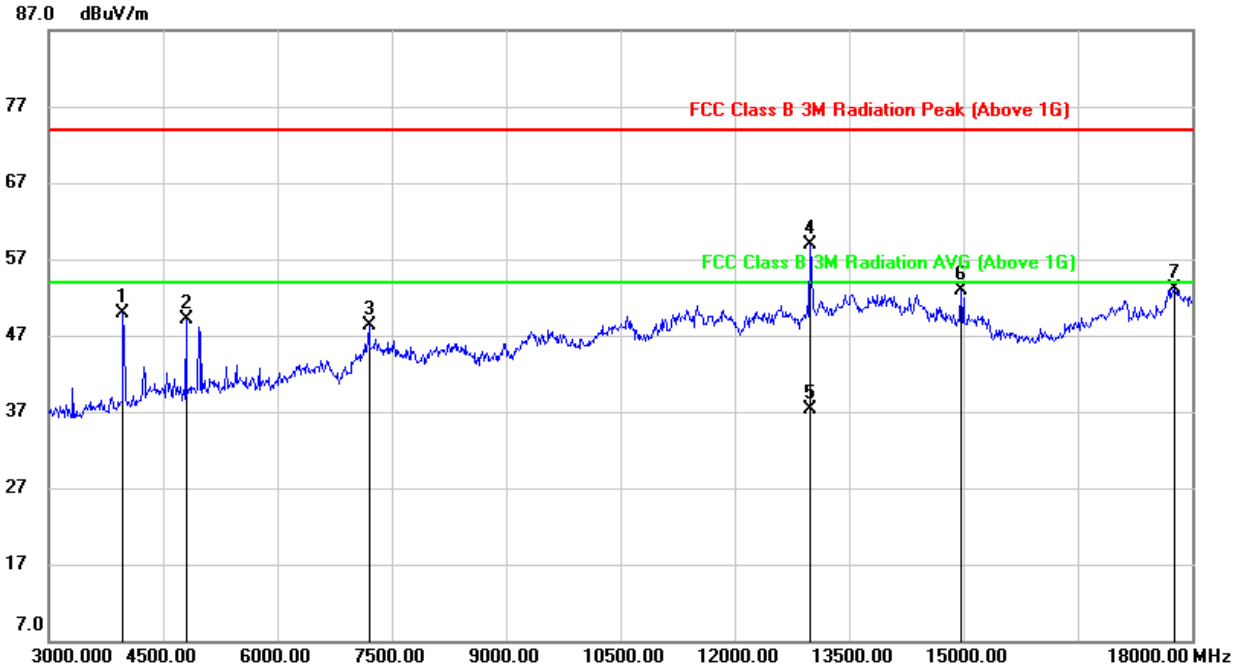
1-3G



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1126.000	65.58	-13.71	51.87	74.00	-22.13	peak
2	1328.000	54.92	-12.51	42.41	74.00	-31.59	peak
3	1776.000	53.19	-11.20	41.99	74.00	-32.01	peak
4	2134.000	56.28	-9.23	47.05	74.00	-26.95	peak
5	2668.000	52.75	-7.83	44.92	74.00	-29.08	peak
6	2994.000	50.64	-6.59	44.05	74.00	-29.95	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

3-18G

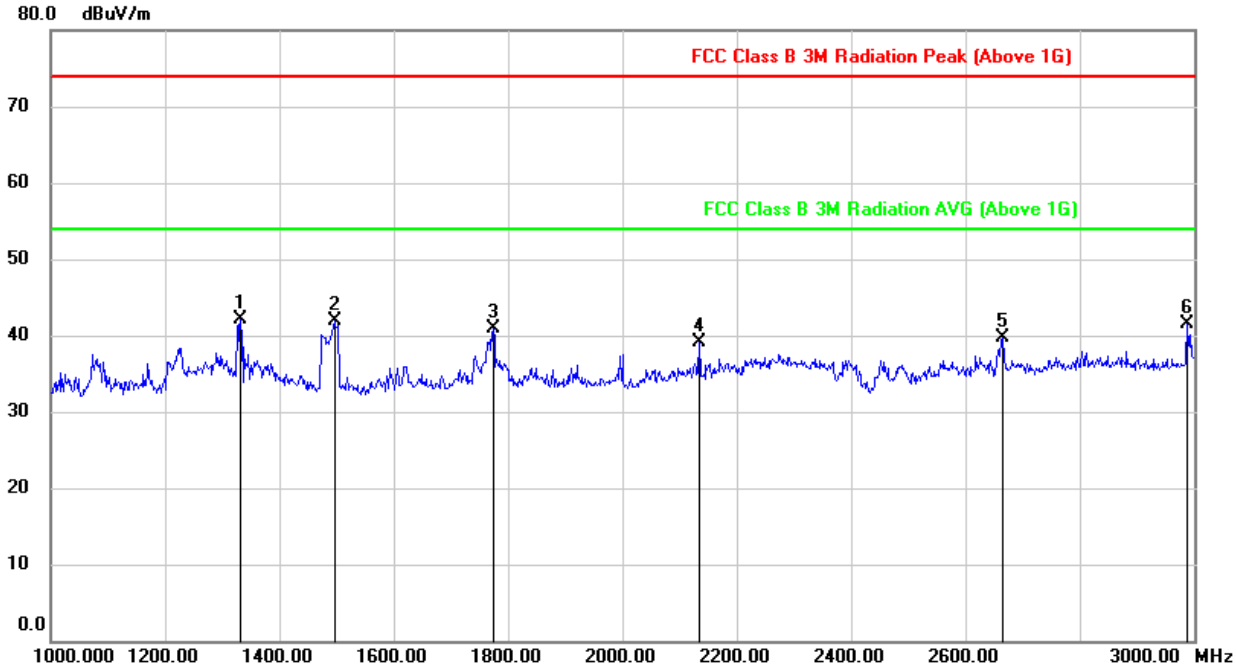


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3975.000	52.84	-3.02	49.82	74.00	-24.18	peak
2	4800.000	49.57	-0.46	49.11	74.00	-24.89	peak
3	7200.000	40.42	7.85	48.27	74.00	-25.73	peak
4	12990.000	40.08	18.82	58.90	74.00	-15.10	peak
5	12990.000	18.42	19.893	38.31	54.00	-15.69	AVG
6	14970.000	34.35	18.50	52.85	74.00	-21.15	peak
7	17775.000	26.57	26.57	53.14	74.00	-20.86	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
3. Peak: Peak detector.
4. AVG: RMS detector, the detector and averaging type may be set for linear voltage averaging.
5. DCCF: Duty Cycle Correction Factor (Please refer to clause 8.1.ON TIME AND DUTY CYCLE)
6. The DCCF already added in Correct Factor.

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

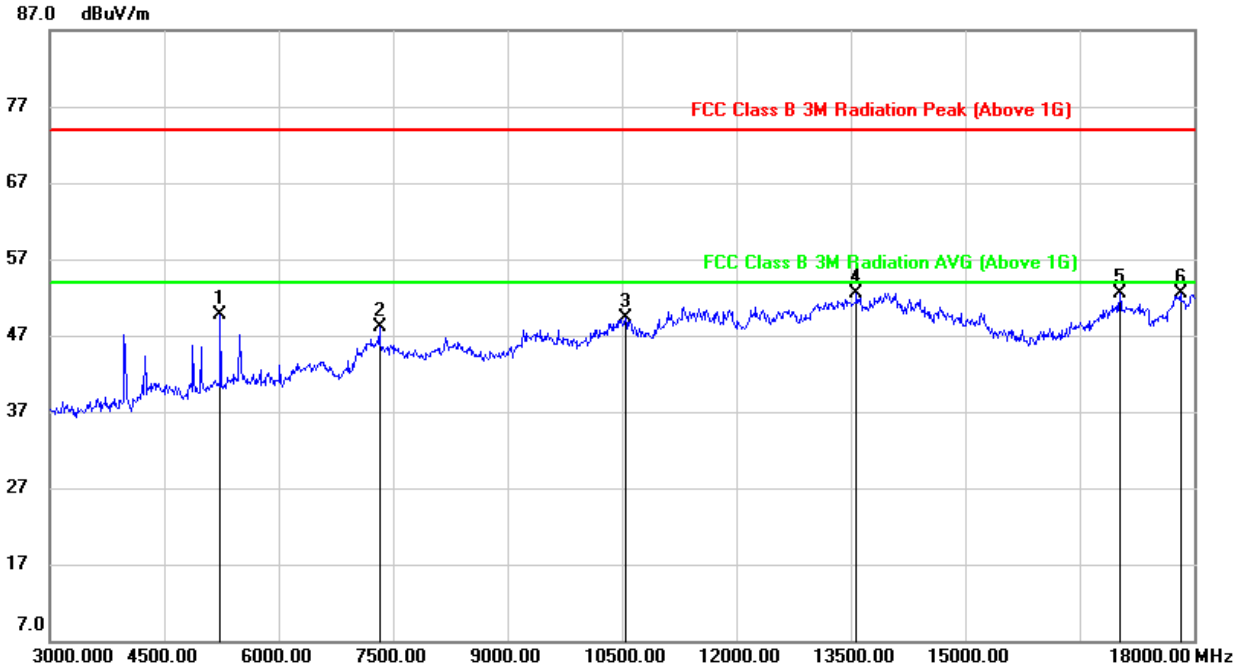
1-3G



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1332.000	54.39	-12.37	42.02	74.00	-31.98	peak
2	1496.000	54.15	-12.19	41.96	74.00	-32.04	peak
3	1774.000	52.10	-11.21	40.89	74.00	-33.11	peak
4	2134.000	48.28	-9.13	39.15	74.00	-34.85	peak
5	2666.000	47.57	-7.78	39.79	74.00	-34.21	peak
6	2988.000	48.10	-6.60	41.50	74.00	-32.50	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

3-18G

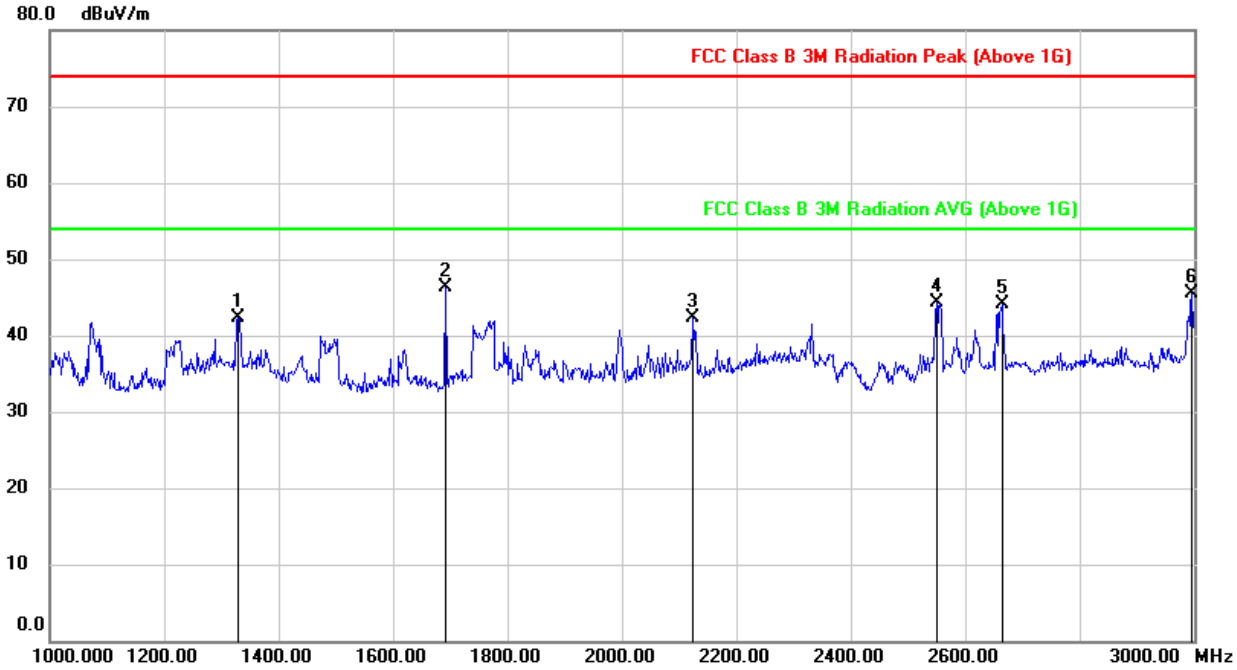


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5235.000	48.56	1.08	49.64	74.00	-24.36	peak
2	7320.000	40.49	7.63	48.12	74.00	-25.88	peak
3	10545.000	35.42	13.79	49.21	74.00	-24.79	peak
4	13575.000	32.14	20.43	52.57	74.00	-21.43	peak
5	17025.000	30.44	22.03	52.47	74.00	-21.53	peak
6	17820.000	25.96	26.48	52.44	74.00	-21.56	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

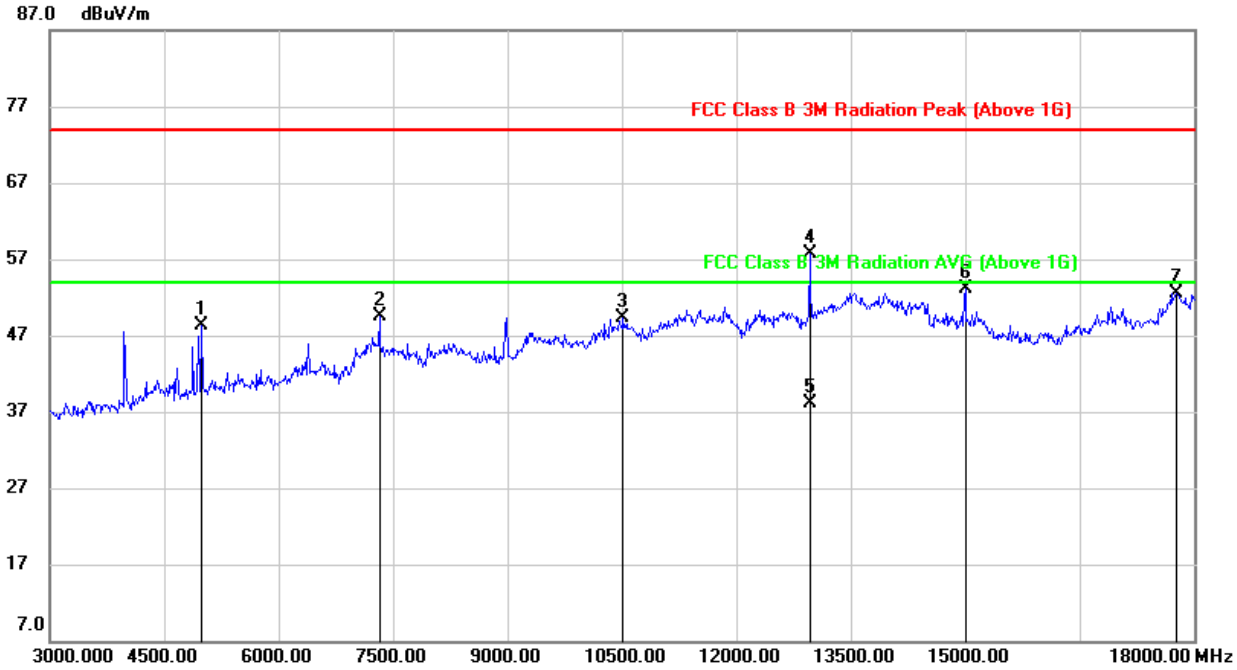
1-3G



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1328.000	54.85	-12.51	42.34	74.00	-31.66	peak
2	1692.000	57.89	-11.56	46.33	74.00	-27.67	peak
3	2124.000	51.65	-9.36	42.29	74.00	-31.71	peak
4	2550.000	52.58	-8.25	44.33	74.00	-29.67	peak
5	2664.000	51.95	-7.86	44.09	74.00	-29.91	peak
6	2996.000	52.17	-6.60	45.57	74.00	-28.43	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

3-18G

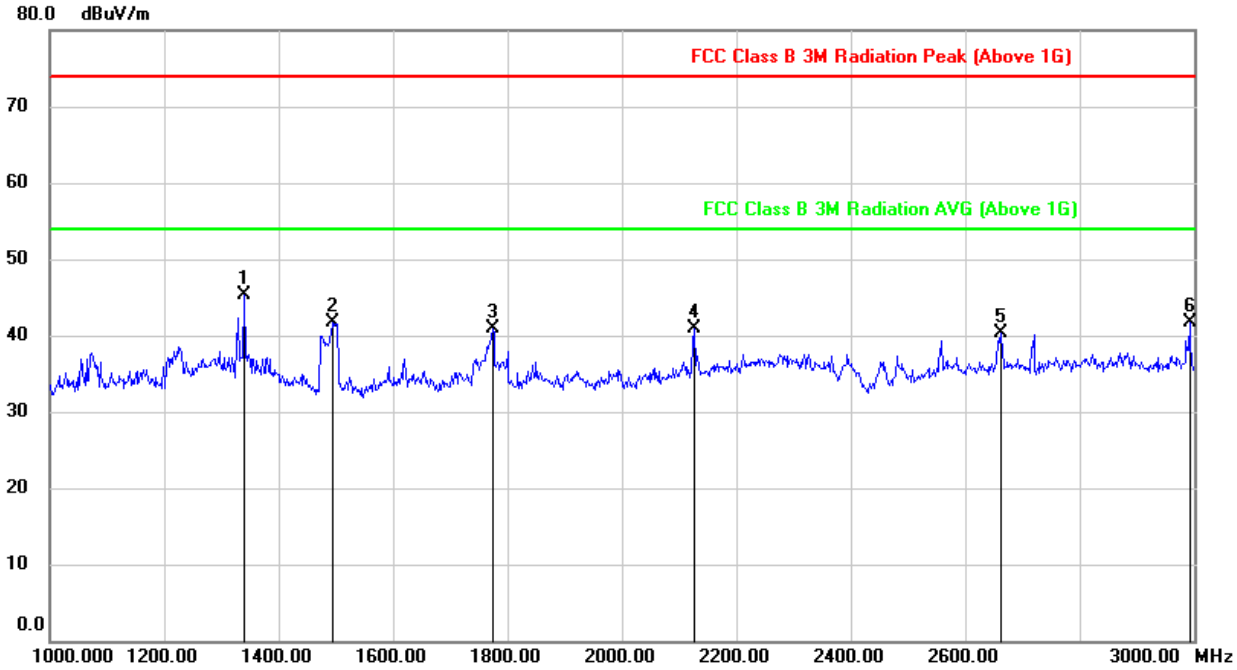


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4980.000	47.63	0.58	48.21	74.00	-25.79	peak
2	7320.000	41.83	7.67	49.50	74.00	-24.50	peak
3	10515.000	35.47	13.78	49.25	74.00	-24.75	peak
4	12960.000	39.09	18.64	57.73	74.00	-16.27	peak
5	12960.000	19.53	19.713	39.24	54.00	-14.76	AVG
6	15000.000	34.52	18.66	53.18	74.00	-20.82	peak
7	17760.000	26.16	26.39	52.55	74.00	-21.45	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
3. Peak: Peak detector.
4. AVG: RMS detector, the detector and averaging type may be set for linear voltage averaging.
5. DCCF: Duty Cycle Correction Factor (Please refer to clause 8.1.ON TIME AND DUTY CYCLE)
6. The DCCF already added in Correct Factor.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

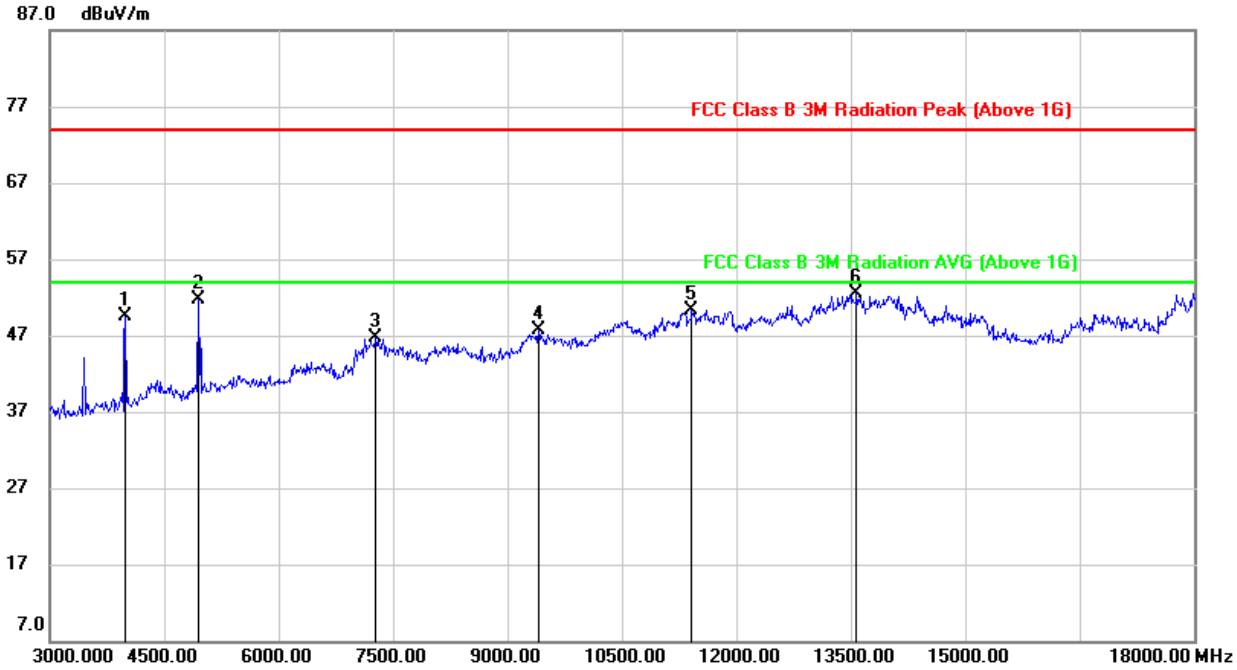
1-3G



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1340.000	57.74	-12.37	45.37	74.00	-28.63	peak
2	1494.000	53.81	-12.19	41.62	74.00	-32.38	peak
3	1774.000	52.09	-11.21	40.88	74.00	-33.12	peak
4	2126.000	50.21	-9.24	40.97	74.00	-33.03	peak
5	2662.000	48.07	-7.79	40.28	74.00	-33.72	peak
6	2992.000	48.26	-6.59	41.67	74.00	-32.33	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

3-18G

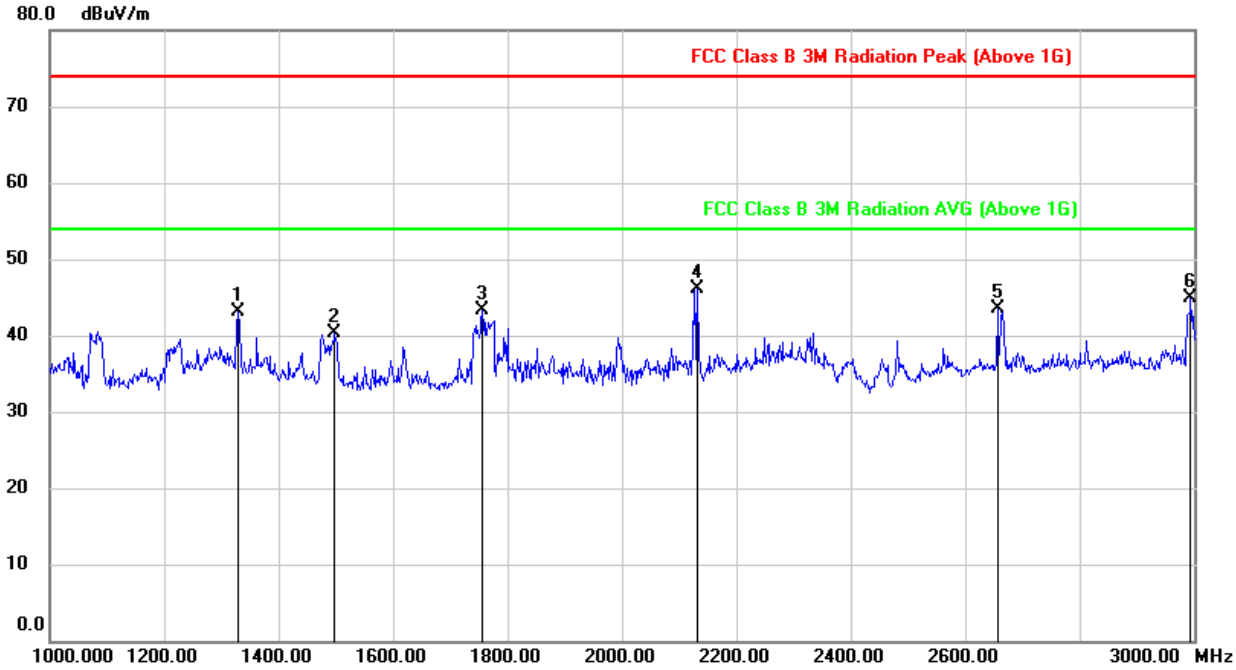


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	52.50	-3.00	49.50	74.00	-24.50	peak
2	4950.000	51.14	0.59	51.73	74.00	-22.27	peak
3	7275.000	38.80	7.86	46.66	74.00	-27.34	peak
4	9405.000	36.92	10.82	47.74	74.00	-26.26	peak
5	11415.000	34.62	15.76	50.38	74.00	-23.62	peak
6	13575.000	32.15	20.43	52.58	74.00	-21.42	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

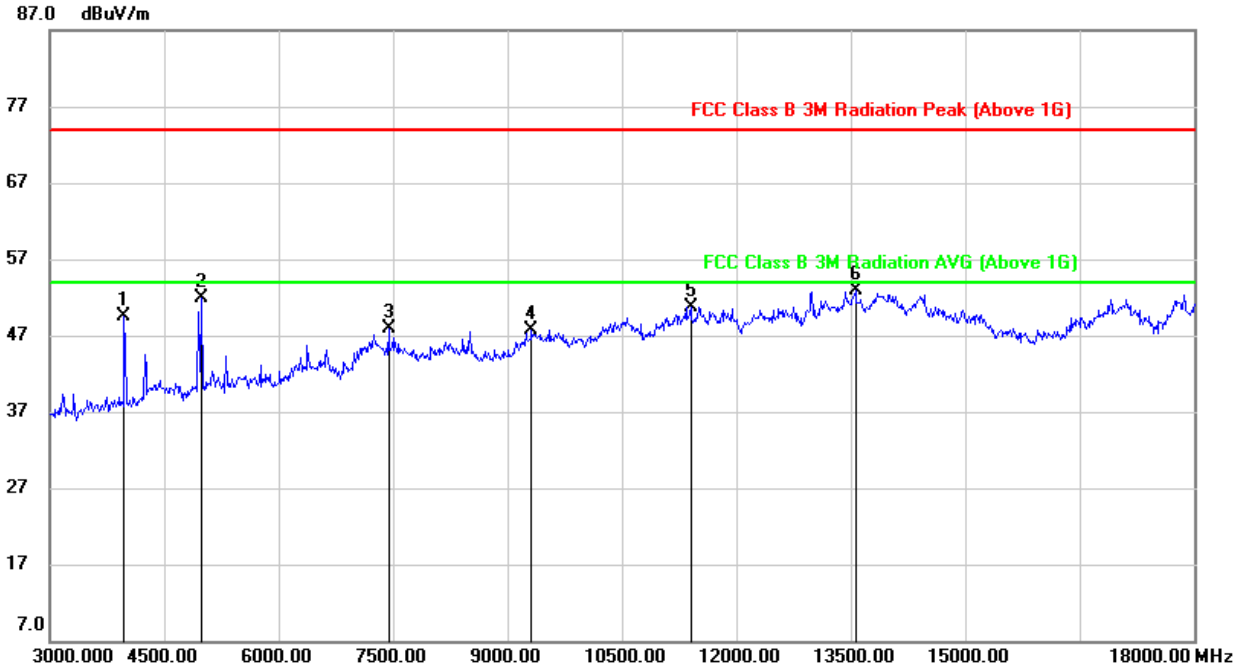
1-3G



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1328.000	55.59	-12.51	43.08	74.00	-30.92	peak
2	1498.000	52.66	-12.28	40.38	74.00	-33.62	peak
3	1756.000	54.65	-11.26	43.39	74.00	-30.61	peak
4	2132.000	55.42	-9.26	46.16	74.00	-27.84	peak
5	2656.000	51.35	-7.91	43.44	74.00	-30.56	peak
6	2994.000	51.42	-6.59	44.83	74.00	-29.17	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

3-18G



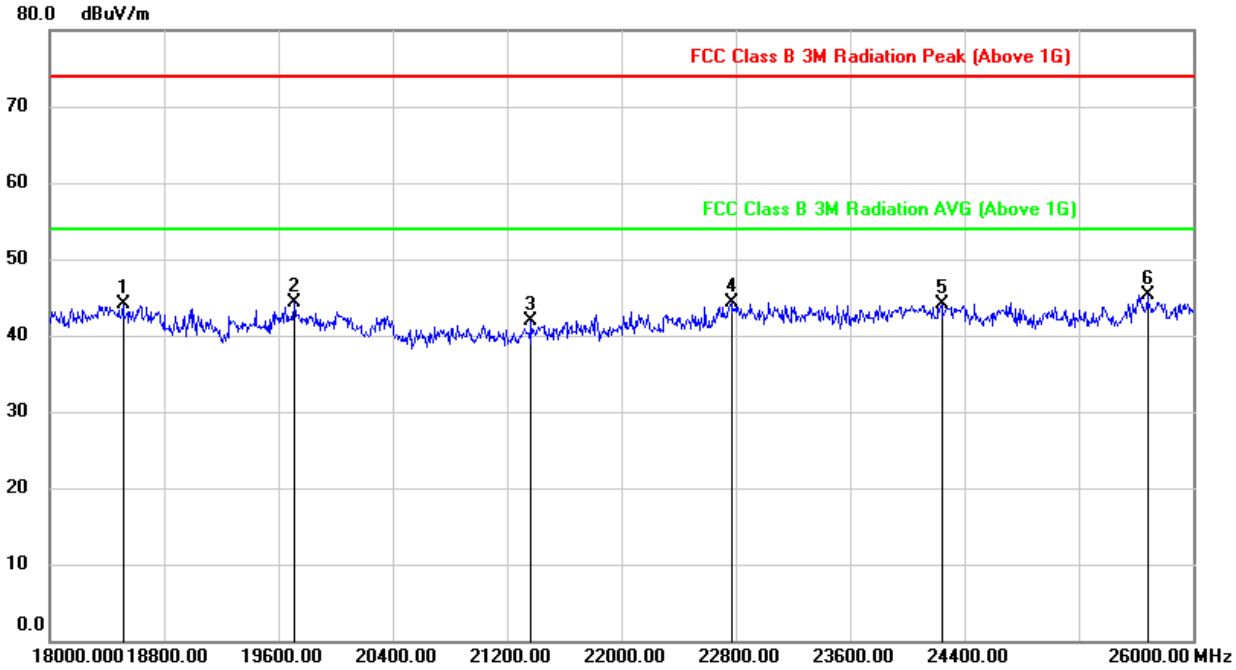
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3975.000	52.43	-3.02	49.41	74.00	-24.59	peak
2	4980.000	51.26	0.58	51.84	74.00	-22.16	peak
3	7440.000	40.36	7.52	47.88	74.00	-26.12	peak
4	9315.000	36.91	10.88	47.79	74.00	-26.21	peak
5	11400.000	35.11	15.59	50.70	74.00	-23.30	peak
6	13560.000	32.15	20.81	52.96	74.00	-21.04	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

7.4. SPURIOUS EMISSIONS 18G ~ 26GHz

7.4.1. GFSK MODE

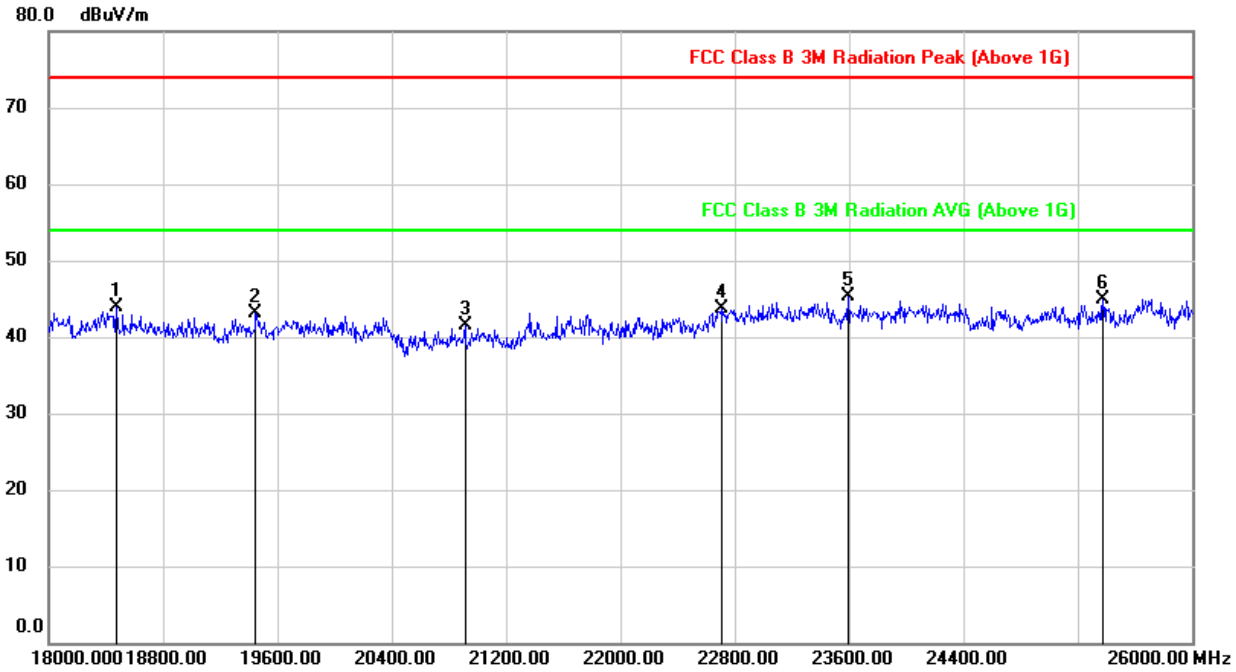
SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18512.000	48.53	-4.37	44.16	74.00	-29.84	peak
2	19712.000	48.40	-4.14	44.26	74.00	-29.74	peak
3	21368.000	47.75	-5.77	41.98	74.00	-32.02	peak
4	22768.000	48.44	-4.09	44.35	74.00	-29.65	peak
5	24240.000	47.51	-3.48	44.03	74.00	-29.97	peak
6	25680.000	47.99	-2.62	45.37	74.00	-28.63	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



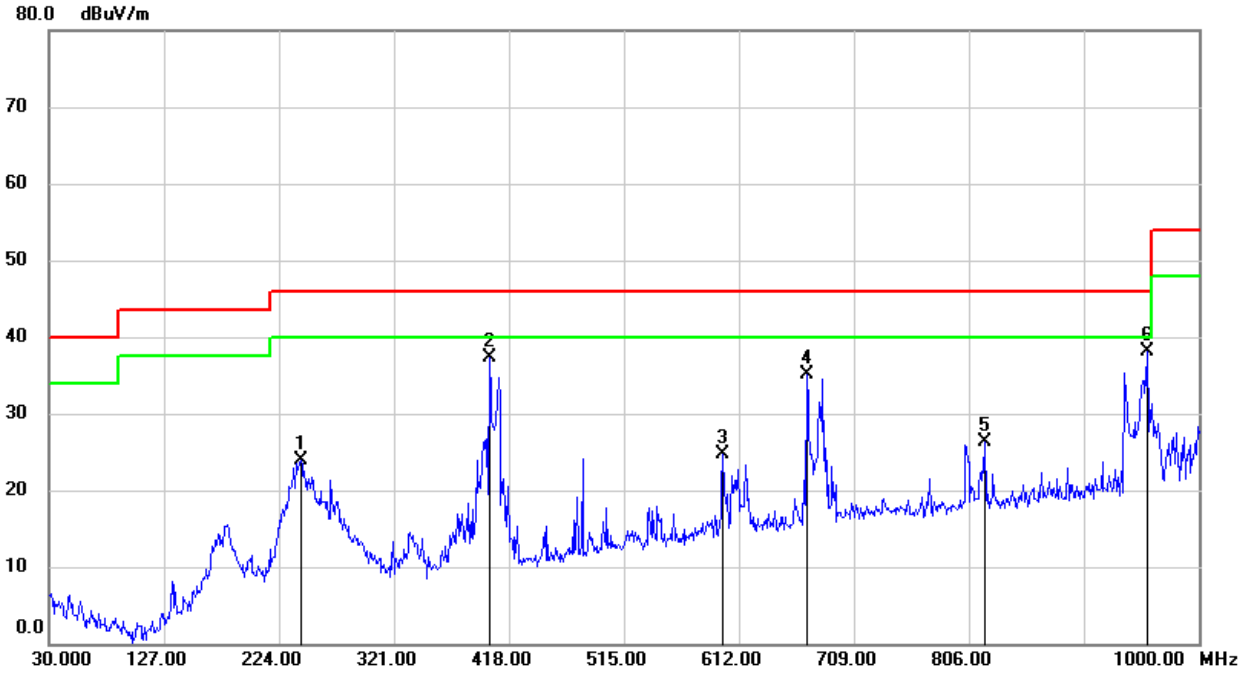
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18472.000	48.18	-4.34	43.84	74.00	-30.16	peak
2	19448.000	47.74	-4.72	43.02	74.00	-30.98	peak
3	20912.000	47.24	-5.75	41.49	74.00	-32.51	peak
4	22704.000	47.88	-4.20	43.68	74.00	-30.32	peak
5	23592.000	48.86	-3.60	45.26	74.00	-28.74	peak
6	25376.000	48.00	-3.02	44.98	74.00	-29.02	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

7.5. SPURIOUS EMISSIONS 30M ~ 1 GHz

7.5.1. GFSK MODE

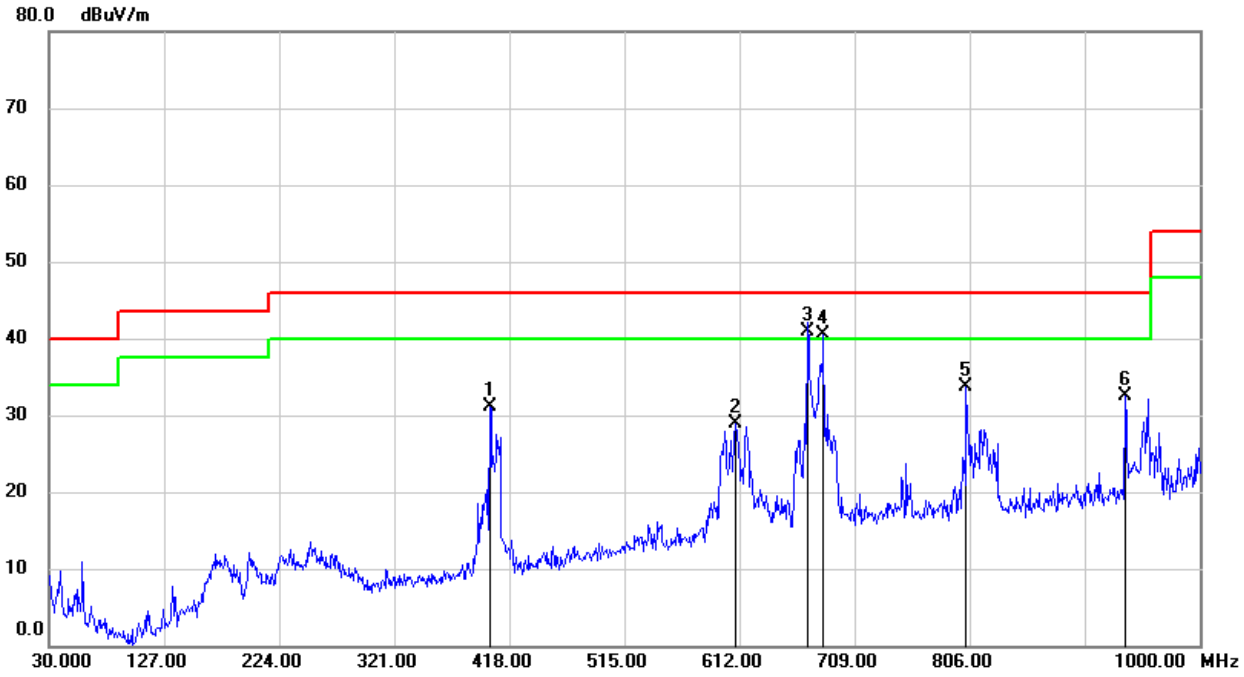
SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	242.4300	41.07	-17.22	23.85	46.00	-22.15	QP
2	401.5100	50.33	-13.06	37.27	46.00	-8.73	QP
3	598.4200	33.77	-9.16	24.61	46.00	-21.39	QP
4	669.2300	43.02	-7.93	35.09	46.00	-10.91	QP
5	819.5800	31.82	-5.44	26.38	46.00	-19.62	QP
6	956.3500	41.96	-3.81	38.15	46.00	-7.85	QP

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	401.5100	44.22	-13.06	31.16	46.00	-14.84	QP
2	609.0900	37.92	-8.96	28.96	46.00	-17.04	QP
3	669.2300	48.76	-7.93	40.83	46.00	-5.17	QP
4	682.8100	48.21	-7.64	40.57	46.00	-5.43	QP
5	803.0900	39.54	-5.85	33.69	46.00	-12.31	QP
6	936.9500	36.60	-4.12	32.48	46.00	-13.52	QP

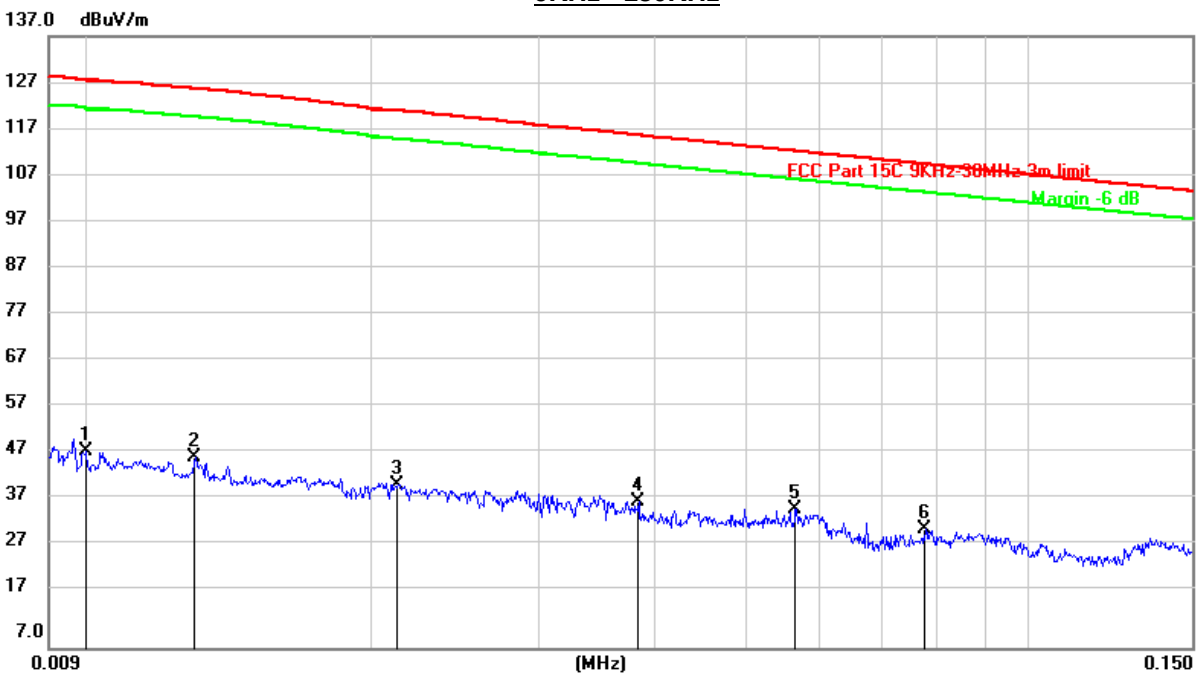
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

7.6. SPURIOUS EMISSIONS BELOW 30M

7.6.1. GFSK MODE

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

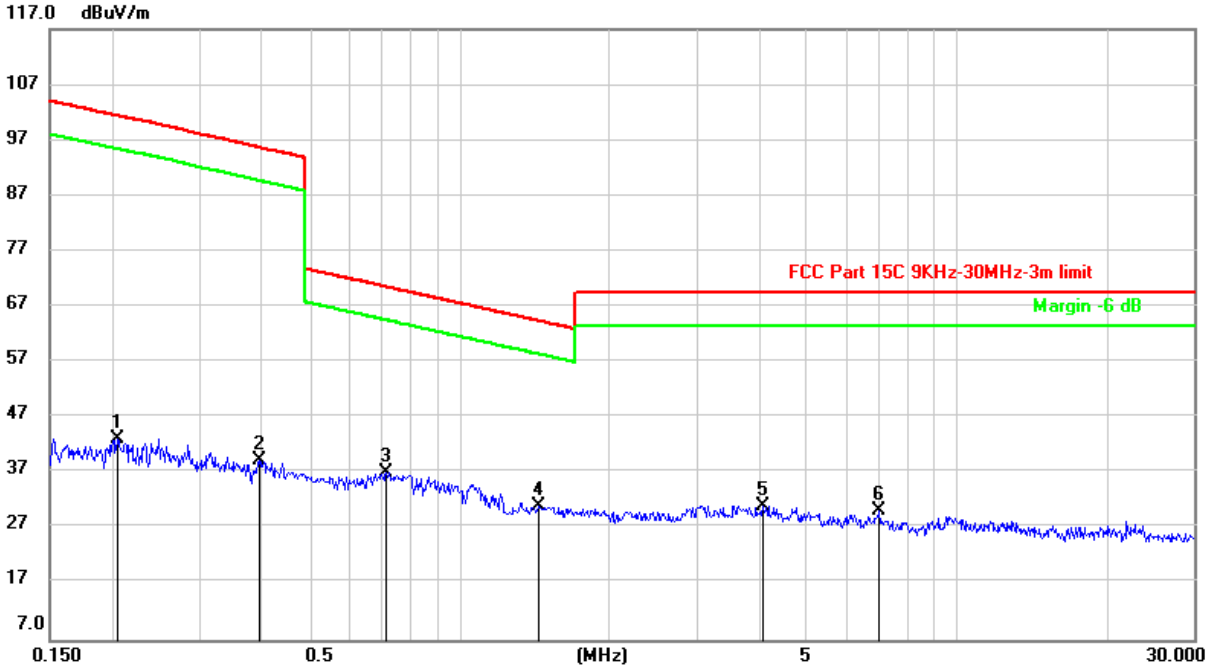
9KHz~ 150KHz



No.	Frequency (KHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0100	28.60	20.21	48.81	127.60	-78.79	peak
2	0.0129	27.31	20.24	47.55	125.85	-78.30	peak
3	0.0212	21.43	20.31	41.74	121.16	-79.42	peak
4	0.0383	17.75	20.31	38.06	115.98	-77.92	peak
5	0.0565	16.07	20.31	36.38	112.59	-76.21	peak
6	0.0777	12.04	20.30	32.34	109.81	-77.47	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

150KHz ~ 30M

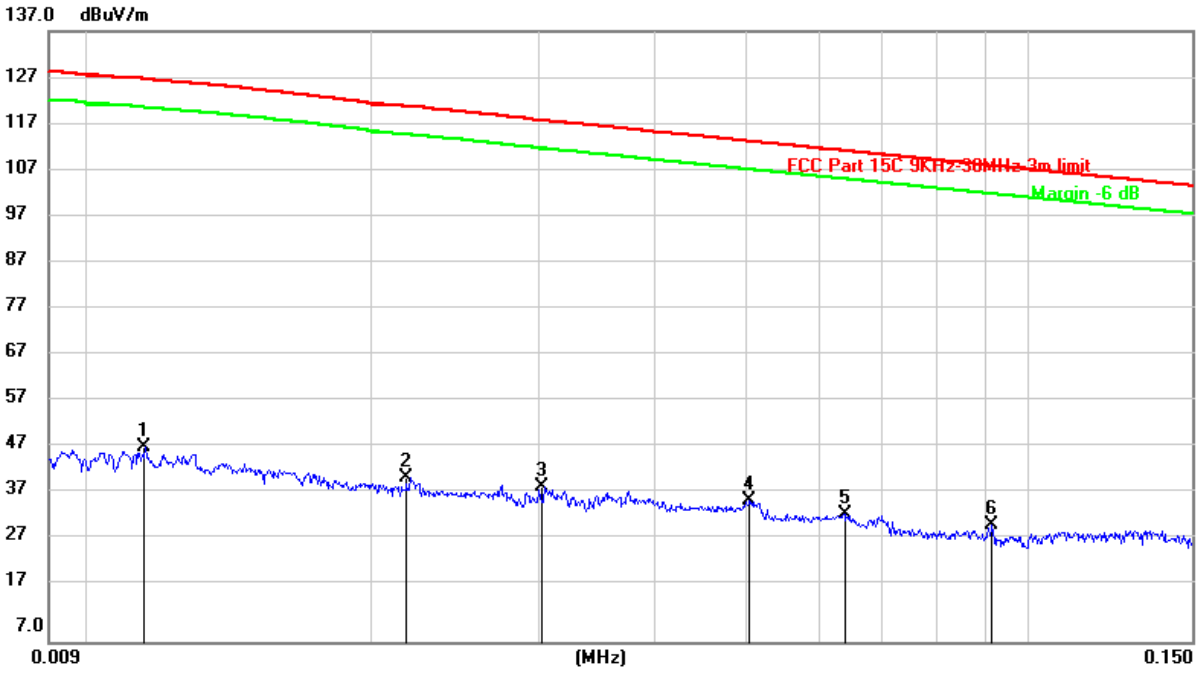


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.2048	22.70	20.36	43.06	101.41	-58.35	peak
2	0.3955	18.99	20.27	39.26	95.67	-56.41	peak
3	0.7122	16.91	20.33	37.24	70.56	-33.32	peak
4	1.4409	10.45	20.53	30.98	64.43	-33.45	peak
5	4.0704	9.96	21.04	31.00	69.54	-38.54	peak
6	6.9878	9.20	20.92	30.12	69.54	-39.42	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)

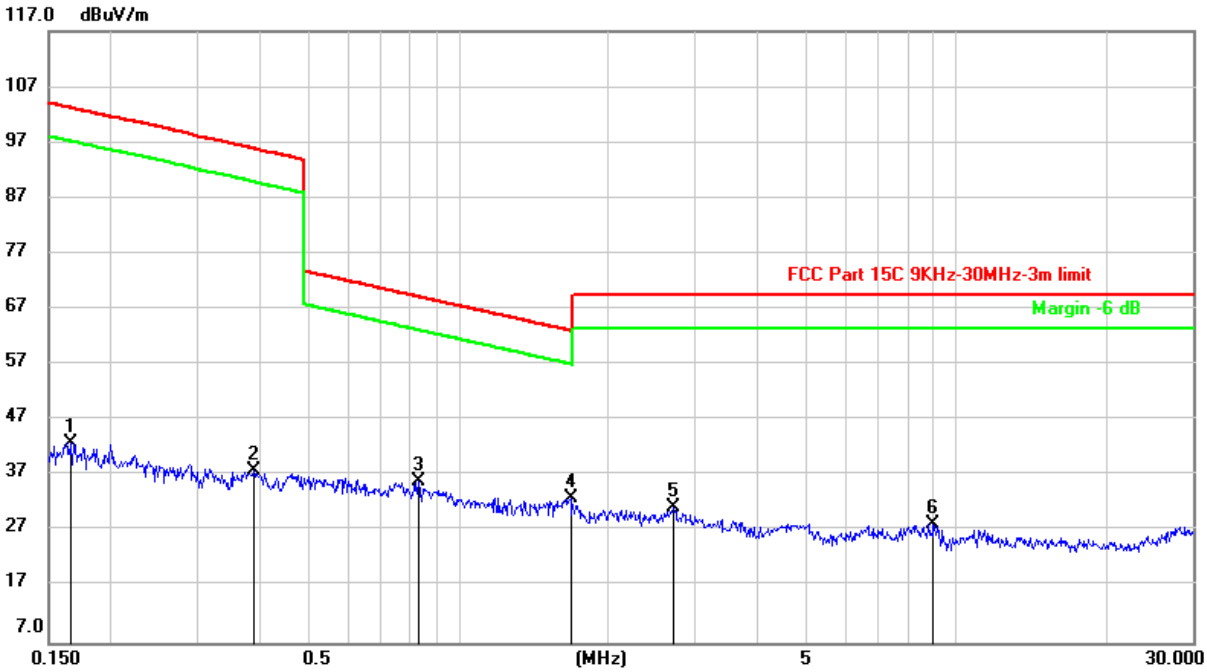
9KHz~ 150KHz



No.	Frequency (KHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0114	28.19	20.22	48.41	126.76	-78.35	peak
2	0.0217	21.78	20.31	42.09	120.98	-78.89	peak
3	0.0303	19.69	20.31	40.00	117.98	-77.98	peak
4	0.0505	16.73	20.31	37.04	113.54	-76.50	peak
5	0.0637	13.88	20.31	34.19	111.54	-77.35	peak
6	0.0916	11.69	20.25	31.94	108.37	-76.43	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

150KHz ~ 30M



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1658	22.53	20.40	42.93	103.22	-60.29	peak
2	0.3870	17.65	20.27	37.92	95.89	-57.97	peak
3	0.8305	15.54	20.36	35.90	69.23	-33.33	peak
4	1.6800	12.41	20.61	33.02	63.10	-30.08	peak
5	2.7067	10.44	20.85	31.29	69.54	-38.25	peak
6	9.0113	7.33	21.01	28.34	69.54	-41.20	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to FCC §15.207 (a).

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

TEST SETUP AND PROCEDURE

The EUT is put on a table of non-conducting material that is 12mm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

RESULTS

Note Applicable.

Note: The EUT was used in vehicle environment.

9. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ANTENNA CONNECTOR

EUT has a PCB antenna without antenna connector.

ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi.

END OF REPORT