

FCC ID: GKR436415
Report No.: T210730W08-RP1

IC: 2533B-436415

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RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C

INDUSTRY CANADA RSS-247

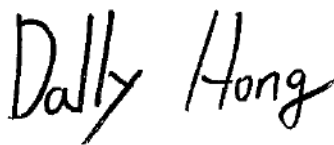
Test Standard	FCC Part 15.247 RSS-247 issue 2 and RSS-GEN issue 5
Product name	Tablet
Brand Name	ICON/iFit
Model No.	MP27-ARGON2-C
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

Approved by:



Dally Hong
Sr. Engineer

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	January 7, 2022	Initial Issue	ALL	Doris Chu

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	For FCC Compal Electronics Inc No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei city, 11492 Taiwan For IC COMPAL ELECTRONICS INC. No. 581 & 581-1, Ruiguang Rd., Neihu District Taipei R.O.C. 114 Taiwan
Manufacturer	Compal Electronics Inc No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei city, 11492 Taiwan
Equipment	Tablet
Model No.	MP27-ARGON2-C
Model Discrepancy	N/A
Trade Name	ICON/iFit
Received Date	July 30, 2021
Date of Test	December 6 ~ 22, 2021
Power Supply	Power from DC 12V.
HW Version	LA-M101P
SW Version	Android 9
EUT Serial #	PP54D301699

Remark:

- For more details, please refer to the User's manual of the EUT.
- Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

1.2 INFORMATION ABOUT THE FHSS CHARACTERISTICS

1.2.1 Pseudorandom Frequency Hopping Sequence

The channel is represented by a pseudo-random hopping sequence hopping through the 79 RF channels. The hopping sequence is unique for the piconet and is determined by the Bluetooth device address of the master; the phase in the hopping sequence is determined by the Bluetooth clock of the master. The channel is divided into time slots where each slot corresponds to an RF hop frequency. Consecutive hops correspond to different RF hop frequencies. The nominal hop rate is 1 600 hops/s.

1.2.2 Equal Hopping Frequency Use

The channels of this system will be used equally over the long-term distribution of the hopsets.

1.2.3 Example of a 79 hopping sequence in data mode:

02, 05, 31, 24, 20, 10, 43, 36, 30, 23, 40, 06, 21, 50, 44, 09, 71, 78, 01, 13, 73, 07, 70, 72, 35, 62, 42, 11, 41, 08, 16, 29, 60, 15, 34, 61, 58, 04, 67, 12, 22, 53, 57, 18, 27, 76, 39, 32, 17, 77, 52, 33, 56, 46, 37, 47, 64, 49, 45, 38, 69, 14, 51, 26, 79, 19, 28, 65, 75, 54, 48, 03, 25, 66, 05, 16, 68, 74, 59, 63, 55

1.2.4 System Receiver Input Bandwidth

Each channel bandwidth is 1MHz.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

1.2.5 Equipment Description

RSS-247, 5.1 (a): The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

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1.3 EUT CHANNEL INFORMATION

Frequency Range	2402MHz-2480MHz
Modulation Type	1. GFSK for BDR-1Mbps 2. $\pi/4$ -DQPSK for EDR-2Mbps 3. 8DPSK for EDR-3Mbps
Number of channel	79 Channels

Remark:

Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 and RSS-GEN Table 1 for test channels

Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
☐ 1 MHz or less	1	Middle
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom
☒ More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.4 ANTENNA INFORMATION

Antenna Type	☐ PIFA ☒ PCB ☐ Dipole ☐ Coils
Antenna Gain	Gain :4.32 dBi
Antenna Connector	N/A

Remark:

1.The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203 and RSS-Gen 6.8.

1.5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 6dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30 MHz ~1 GHz (Horizontally)	+/- 3.91
3M Semi Anechoic Chamber / 30 MHz ~1 GHz (Vertically)	+/- 4.57
3M Semi Anechoic Chamber / 1 GHz ~ 6 GHz	+/- 5.20
3M Semi Anechoic Chamber / 6 GHz ~ 18 GHz	+/- 5.18
3M Semi Anechoic Chamber / 18 GHz ~ 40 GHz	+/- 3.68
3M Semi Anechoic Chamber / 40 GHz ~ 60 GHz	+/- 4.64
3M Semi Anechoic Chamber / 60 GHz ~ 75 GHz	+/- 4.64
3M Semi Anechoic Chamber / 75 GHz ~ 110 GHz	+/- 4.65
3M Semi Anechoic Chamber / 110 GHz ~ 170 GHz	+/- 4.69
3M Semi Anechoic Chamber / 170 GHz ~ 220 GHz	+/- 5.31
3M Semi Anechoic Chamber / 220 GHz ~ 325 GHz	+/- 5.73

Remark:

- 1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

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1.6 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)
CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	-	Not applicable, because EUT doesn't connect to AC Main Source direct.
Radiation	Ray Li, Tony Chao	-
RF Conducted	Lance Chen	-

Remark: The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC public Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309”

1.7 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	Woken	WC12	CC003	06/28/2021	06/27/2022
Coaxial Cable	Woken	WC12	CC001	06/28/2021	06/27/2022
Power Meter	Anritsu	ML2487A	6K00003260	05/24/2021	05/23/2022
Power Sensor	Anritsu	MA2490A	032910	05/24/2021	05/23/2022
EXA Signal Analyzer	KEYSIGHT	N9010B	MY55460167	09/07/2021	09/06/2022
Software	Radio Test Software Ver. 21				

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3M 966 Chamber Test Site (1GHz ~ 18GHz)					
Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due
Bilog Antenna	Sunol Sciences	JB3	A030105	07/19/2021	07/18/2022
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/24/2021	02/23/2022
Coaxial Cable	EMCI	EMC105	190914+1111	09/17/2021	09/16/2022
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/06/2021	01/05/2022
Band Reject Filters	MICRO TRONICS	BRM 50702	112	11/23/2021	11/22/2022
Horn Antenna	ETS LINDGREN	3117	00055165	07/29/2021	07/28/2022
Loop Ant	COM-POWER	AL-130	121051	04/07/2021	04/06/2022
Pre-Amplifier	EMEC	EM330	060609	02/24/2021	02/23/2022
Pre-Amplifier	HP	8449B	3008A00965	12/25/2020	12/24/2021
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	12/06/2021	12/05/2022
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 6.11-20180413				

Remark: Each piece of equipment is scheduled for calibration once a year.

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3M 966 Chamber Test Site (Above 18GHz)					
Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due
Coaxial Cable	Woken	J-1099	201709090004	12/21/2021	12/20/2022
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/06/2021	01/05/2022
Band Reject Filters	MICRO TRONICS	BRM 50702	112	11/23/2021	11/22/2022
Horn Antenna	ETS LINDGREN	3116	00026370	11/30/2021	11/29/2022
K Type Cable	Huber+Suhner	SUCOFLEX 102	29406/2	12/05/2021	12/04/2022
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	09/08/2021	09/07/2022
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	12/06/2021	12/05/2022
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 6.11-20180413				

1.8 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID
	N/A				

Support Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
1	NB(J)	TOSHIBA	PT345T-00L002	N/A	PD97260H	1000M-7260H
2	Adapter	WEIHAI	HAS060123-EA	N/A	N/A	N/A

1.9 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, RSS-247 Issue 2 and RSS-GEN Issue 5.

2. TEST SUMMARY

FCC Standard Section	IC Standard Section	Report Section	Test Item	Result
15.203	RSS-Gen 6.8	1.3	Antenna Requirement	Pass
15.207(a)	RSS-GEN 8.8	4.1	AC Conducted Emission	N/A
15.247(a)(1)	RSS-247(5.1)(a)	4.2	20 dB Bandwidth	Pass
-	RSS-GEN 6.7	4.2	Occupied Bandwidth (99%)	Pass
15.247(b)(1)	RSS-247(5.4)(b)	4.3	Output Power Measurement	Pass
15.247(a)(1)	RSS-247(5.1)(b)	4.4	Frequency Separation	Pass
15.247(a)(1)(iii)	RSS-247(5.1)(d)	4.5	Number of Hopping	Pass
15.247(d)	RSS-247(5.5)	4.6	Conducted Band Edge	Pass
15.247(d)	RSS-247(5.5)	4.6	Conducted Spurious Emission	Pass
15.247(a)(1)(iii)	RSS-247(5.1)(d)	4.7	Time of Occupancy	Pass
15.247(d)	RSS-GEN 8.9, 8.10	4.8	Radiation Band Edge	Pass
15.247(d)	RSS-GEN 8.9, 8.10	4.8	Radiation Spurious Emission	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	GFSK for BDR-1Mbps (DH5) $\pi/4$ -DQPSK for EDR-2Mbps (2DH5) 8DPSK for EDR-3Mbps (3DH5)
Test Channel Frequencies	GFSK for BDR-1Mbps: 1.Lowest Channel: 2402MHz 2.Middle Channel: 2441MHz 3.Highest Channel: 2480MHz $\pi/4$-DQPSK for EDR-2Mbps (2DH5) 1.Lowest Channel: 2402MHz 2.Middle Channel: 2441MHz 3.Highest Channel: 2480MHz 8DPSK for EDR-3Mbps: 1.Lowest Channel: 2402MHz 2.Middle Channel: 2441MHz 3.Highest Channel: 2480MHz

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.
2. For EDR-2/3Mbps, because the characteristics are the same, so choose the high power as a hopping test.

3.2 THE WORST MODE OF MEASUREMENT

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by 12Vdc
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☐ Placed in fixed position at X-Plane (E2-Plane) ☒ Placed in fixed position at Y-Plane (E1-Plane) ☐ Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by 12Vdc
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Y-Plane) were recorded in this report

3.3 EUT DUTY CYCLE

Temperature: 20.8°C

Humidity: 60% RH

Tested by: Lance Chen

Test date: December 6, 2021

For GFSK (1Mbps)

PACKET TYPE	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
DH1	30.00	5.23	2.67	3.00
DH3	65.20	1.86	0.61	1.00
DH5	76.80	1.15	0.35	1.00

For $\pi/4$ DQPSK (2Mbps)

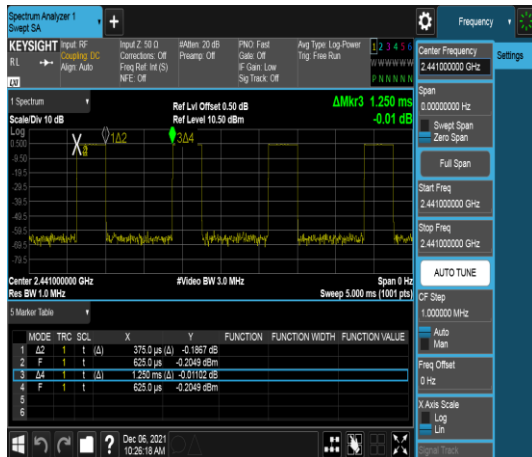
PACKET TYPE	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
2DH1	31.20	5.06	2.56	3.00
2DH3	65.60	1.83	0.61	1.00
2DH5	76.80	1.15	0.35	1.00

For 8-DPSK (3Mbps)

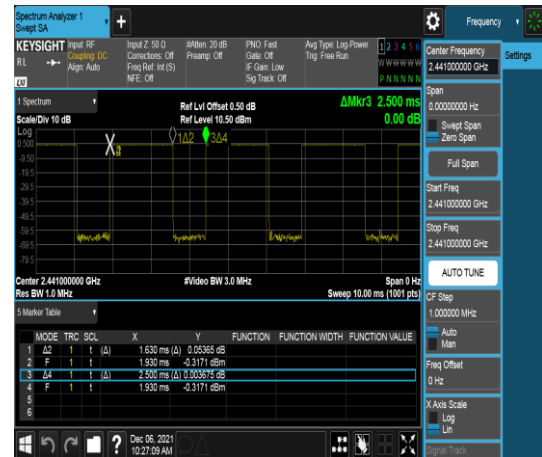
PACKET TYPE	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
3DH1	31.20	5.06	2.56	3.00
3DH3	65.60	1.83	0.61	1.00
3DH5	76.80	1.15	0.35	1.00

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For GFSK (1Mbps)

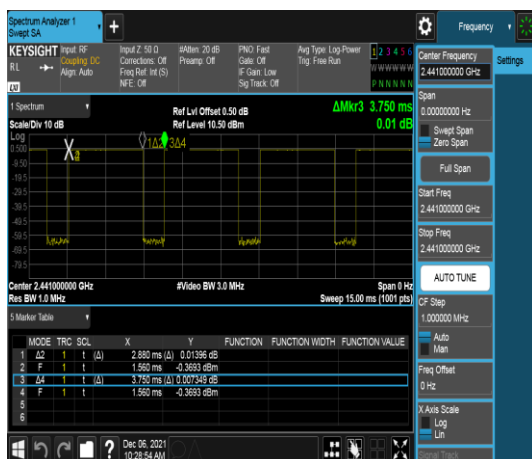
DH1



DH3

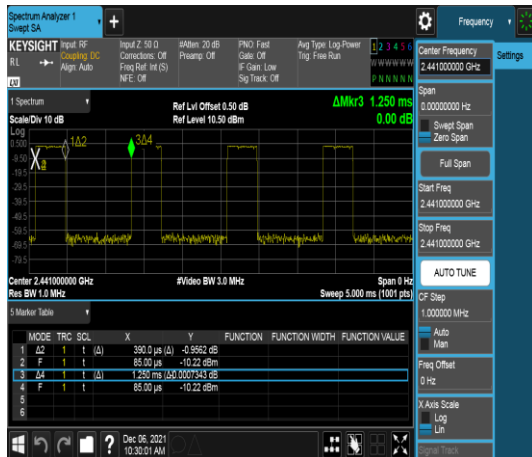


DH5



Report No.: T210730W08-RP1
For $\pi/4$ DQPSK (2Mbps)

2DH1



2DH3



2DH5

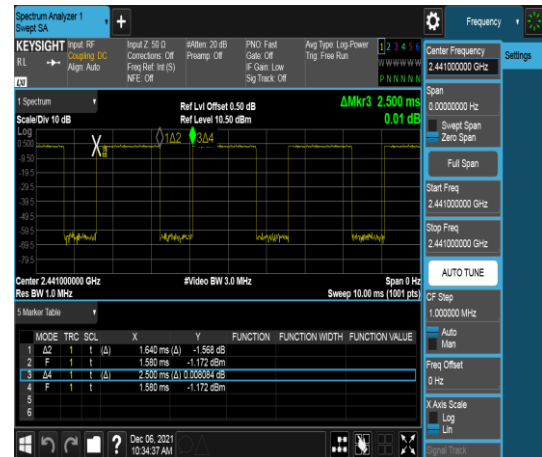


Report No.: T210730W08-RP1
For 8-DPSK (3Mbps)

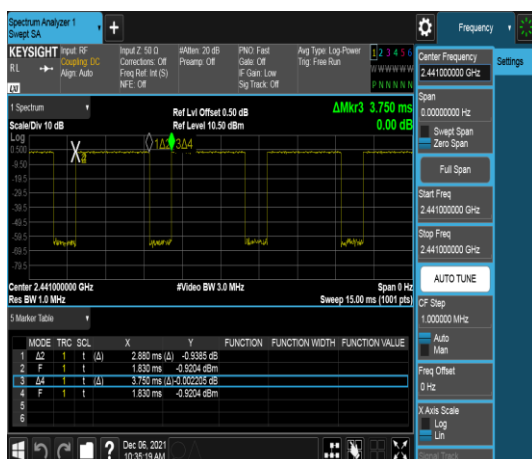
3DH1



3DH3



3DH5



4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a) and RSS-GEN section 8.8,

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

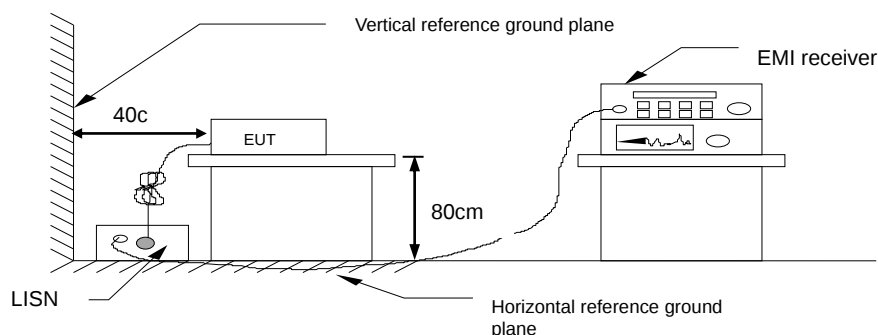
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup



4.1.4 Test Result

Not applicable, because EUT doesn't connect to AC Main Source direct.

4.2 20dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

4.2.1 Test Limit

According to §15.247(a) (1), RSS-247 section 5.1(a) and RSS-GEN 6.7,

20 dB Bandwidth : For reporting purposes only.

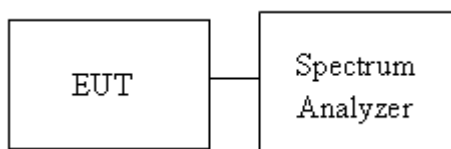
Occupied Bandwidth(99%) : For reporting purposes only.

4.2.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 7.8.7,

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 1% ~ 5% OBW, VBW $\geq 3 \times$ RBW and Detector = Peak, to measurement 20 dB Bandwidth.
4. SA set RBW = 1% ~ 5% OBW, VBW $\geq$ three times the RBW and Detector = Peak, to measurement 99% Bandwidth
5. Measure and record the result of 20 dB Bandwidth and 99% Bandwidth. in the test report.

4.2.3 Test Setup



4.2.4 Test Result

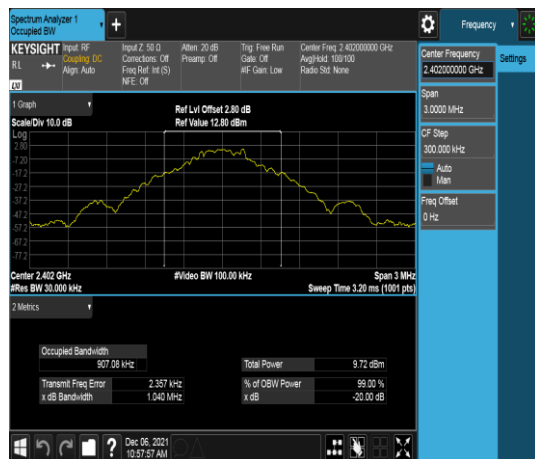
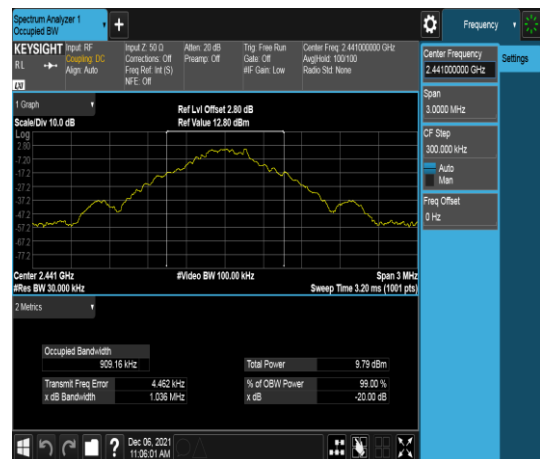
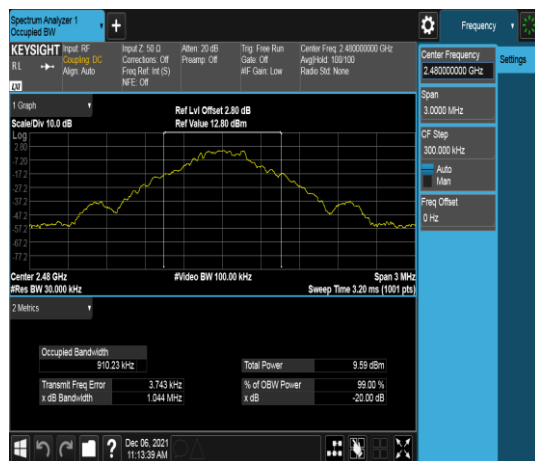
Temperature: 20.8°C Humidity: 60% RH
Tested by: Lance Chen Test date: December 6, 2021

Test mode: GFSK_BDR-1Mbps mode / 2402-2480 MHz			
Channel	Frequency (MHz)	OBW(99%) (MHz)	20dB BW (MHz)
Low	2402	0.90518	1.040
Mid	2441	0.90790	1.036
High	2480	0.90553	1.044

Test mode: $\pi/4$ -DQPSK_EDR -2Mbps mode / 2402-2480 MHz			
Channel	Frequency (MHz)	OBW(99%) (MHz)	20dB BW (MHz)
Low	2402	1.1736	1.289
Mid	2441	1.1740	1.287
High	2480	1.1708	1.289

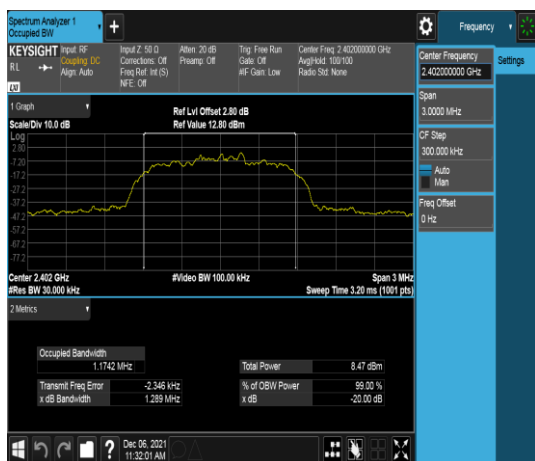
Test mode: 8DPSK_EDR-3Mbps mode / 2402-2480 MHz			
Channel	Frequency (MHz)	OBW(99%) (MHz)	20dB BW (MHz)
Low	2402	1.1836	1.290
Mid	2441	1.1828	1.300
High	2480	1.1814	1.309

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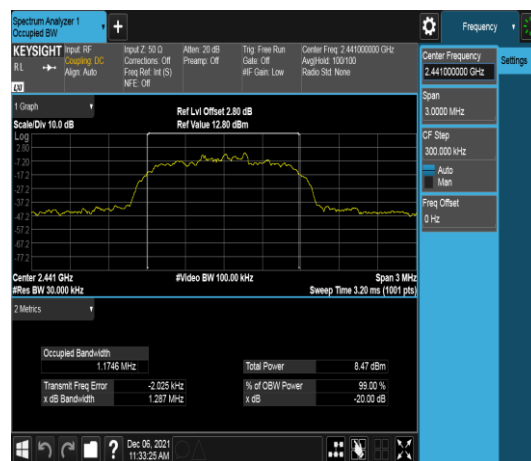
Test Data**20dB BANDWIDTH****GFSK_BDR-1Mbps mode****Low CH****Mid CH****High CH**

π/4-DQPSK_EDR -2Mbps mode

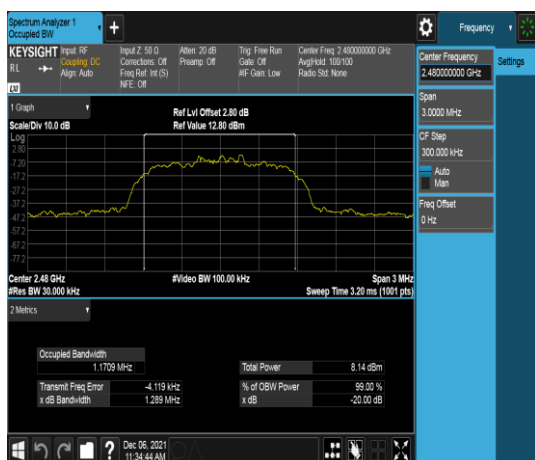
Low CH



Mid CH



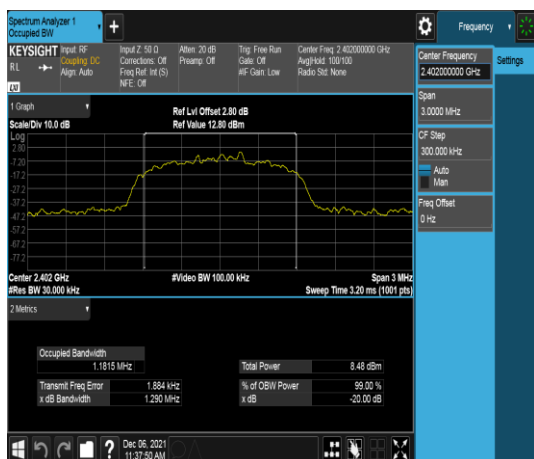
High CH



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8DPSK_EDR-3Mbps mode

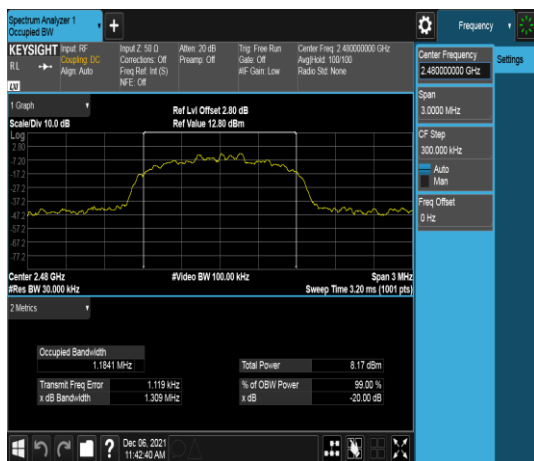
Low CH



Mid CH



High CH



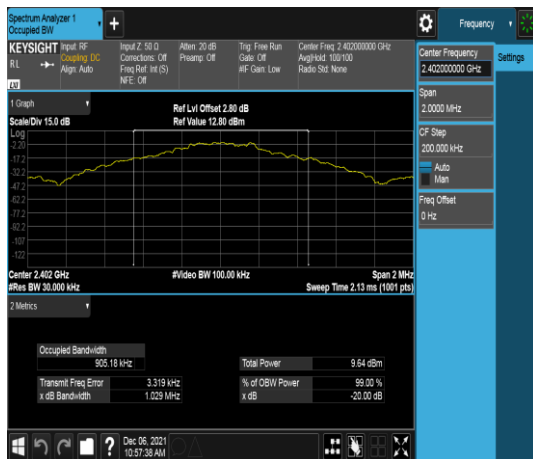
Report No.: T210730W08-RP1

Test Data

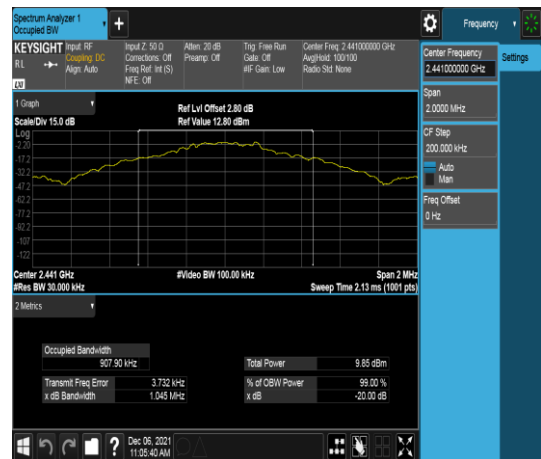
BANDWIDTH 99%

GFSK_BDR-1Mbps mode

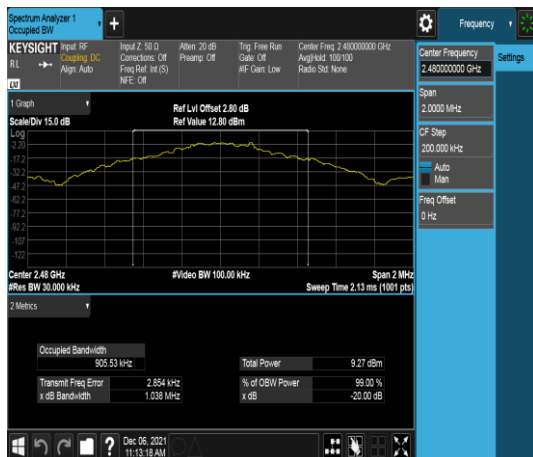
Low CH



Mid CH

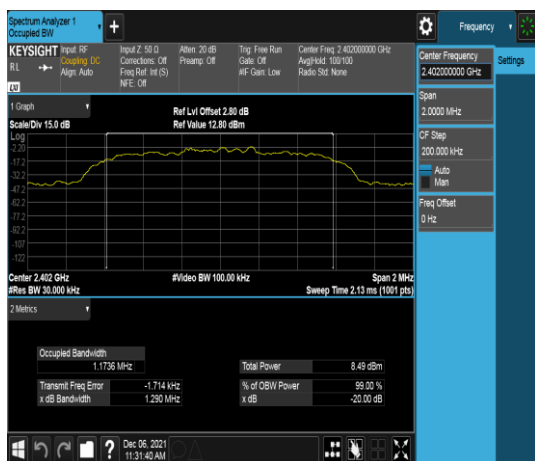


High CH

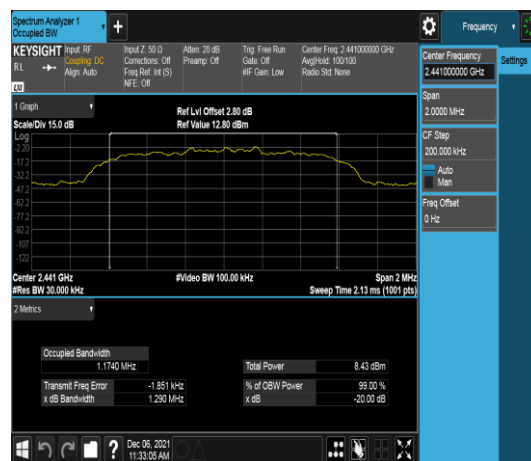


$\pi/4$ -DQPSK_EDR -2Mbps mode

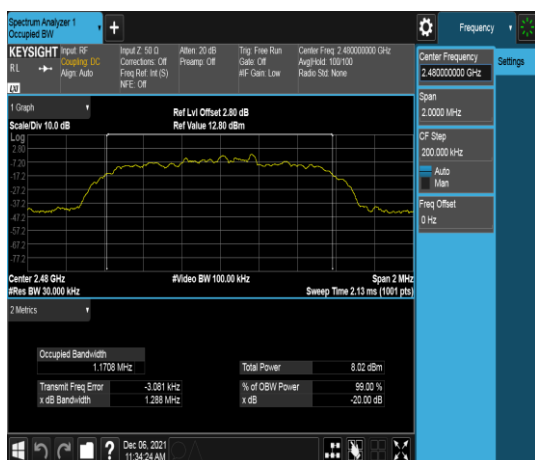
Low CH



Mid CH



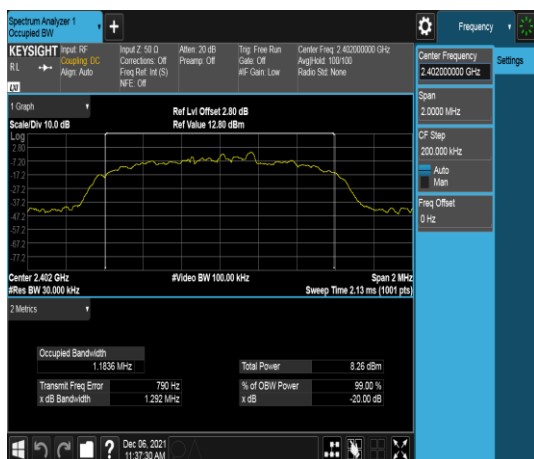
High CH



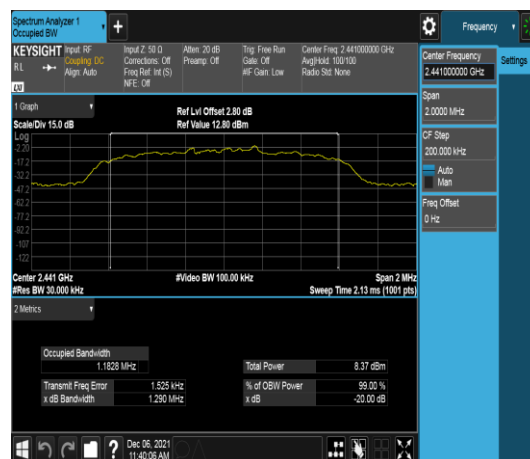
Report No.: T210730W08-RP1

8DPSK_EDR-3Mbps mode

Low CH



Mid CH



High CH



4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.247(a)(1) and RSS-247 section 5.4(b)

Peak output power :

FCC

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.

IC

According to RSS-247 section 5.4(b), For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

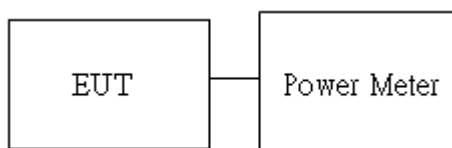
Limit	☒ Antenna not exceed 6 dBi : 21dBm ☐ Antenna with DG greater than 6 dBi : 21dBm [Limit = 30 – (DG – 6)]
-------	--

Average output power : For reporting purposes only.

4.3.2 Test Procedure

1. The EUT RF output connected to the power meter by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Peak output power and Average output power. in the test report.

4.3.3 Test Setup



Report No.: T210730W08-RP1

4.3.4 Test Result

Temperature: 20.8°C

Humidity: 60% RH

Tested by: Lance Chen

Test date: December 6, 2021

Peak output power :**1M BR mode (Peak):**

CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	3.74	2.366	125
Mid	2441	default	3.70	2.344	125
High	2480	default	3.74	2.366	125

2M EDR mode (Peak):

CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	3.07	2.028	125
Mid	2441	default	3.45	2.213	125
High	2480	default	3.25	2.113	125

3M EDR mode (Peak):

CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	3.15	2.065	125
Mid	2441	default	3.52	2.249	125
High	2480	default	3.28	2.128	125

Average output power :

1M BR mode (Average):

CH	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	3.38	2.175	125
Mid	2441	default	3.31	2.140	125
High	2480	default	3.37	2.170	125

2M EDR mode (Average):

CH	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	0.53	1.129	125
Mid	2441	default	0.47	1.113	125
High	2480	default	0.74	1.184	125

3M EDR mode (Average):

CH	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	0.54	1.131	125
Mid	2441	default	0.48	1.116	125
High	2480	default	0.27	1.063	125

Report No.: T210730W08-RP1

EIRP power :

1M BR mode EIRP

Channel	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	default	3.38	4.32	5.882	4000
Mid	2441	default	3.31	4.32	5.788	4000
High	2480	default	3.37	4.32	5.868	4000

2M EDR mode EIRP

Channel	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	default	0.53	4.32	3.051	4000
Mid	2441	default	0.47	4.32	3.010	4000
High	2480	default	0.74	4.32	3.203	4000

3M EDR mode EIRP

Channel	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	default	0.54	4.32	3.059	4000
Mid	2441	default	0.48	4.32	3.017	4000
High	2480	default	0.27	4.32	2.874	4000

4.4 FREQUENCY SEPARATION

4.4.1 Test Limit

According to §15.247(a)(1) and RSS-247 section 5.1(b)

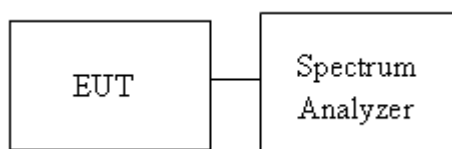
Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than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

Limit	> two-thirds of the 20 dB bandwidth
-------	-------------------------------------

4.4.2 Test Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. EUT RF output port connected to the SA by RF cable.
3. Set the spectrum analyzer as RBW = 300kHz, VBW = 300kHz, Sweep = auto.
Max hold, mark 3 peaks of hopping channel and record the 3 peaks frequency

4.4.3 Test Setup



Report No.: T210730W08-RP1

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4.4.4 Test Result

Temperature: 20.8°C

Humidity: 60% RH

Tested by: Lance Chen

Test date: December 6, 2021

Test mode: GFSK_BDR-1Mbps mode / 2402-2480 MHz				
Channel	Frequency (MHz)	Channel Separation (MHz)	Channel Separation Limits (MHz)	Result
Low	2402	1.000	0.69	PASS
Mid	2441	1.000	0.69	PASS
High	2480	1.000	0.70	PASS

Test mode: 8DPSK_EDR-3Mbps mode / 2402-2480 MHz				
Channel	Frequency (MHz)	Channel Separation (MHz)	Channel Separation Limits (MHz)	Result
Low	2402	1.000	0.86	PASS
Mid	2441	1.000	0.87	PASS
High	2480	1.000	0.87	PASS

Report No.: T210730W08-RP1

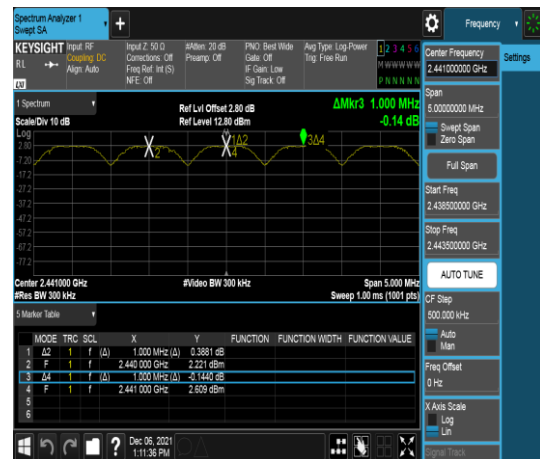
Test Data

GFSK_BDR-1Mbps mode

CH Low



CH Mid



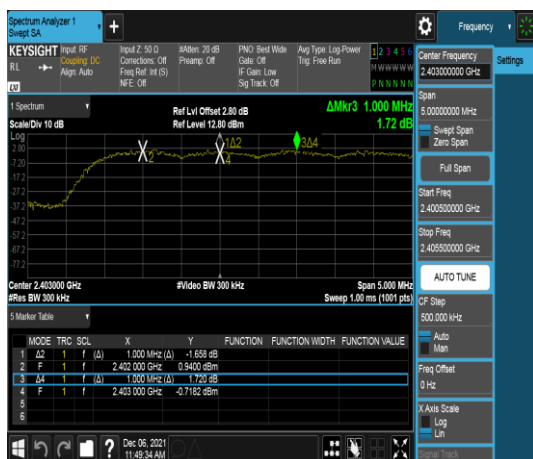
CH High



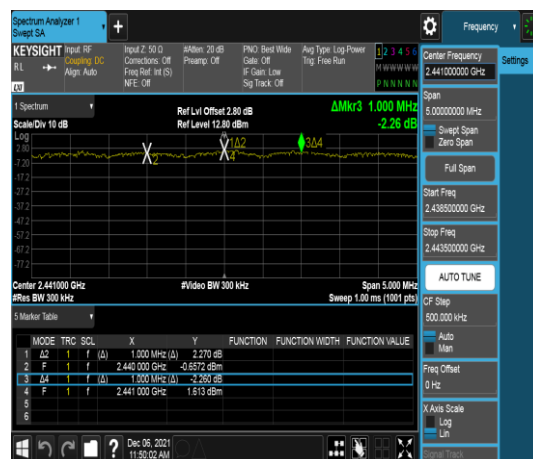
Report No.: T210730W08-RP1

8DPSK_EDR-3Mbps mode

CH Low



CH Mid



CH High



4.5 NUMBER OF HOPPING

4.5.1 Test Limit

According to §15.247(a)(1)(iii) and RSS-247 section 5.1(d)

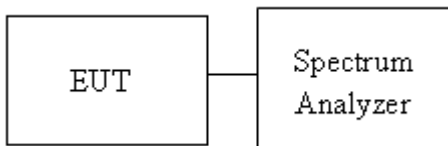
Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

4.5.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 7.8.3

1. Place the EUT on the table and set it in transmitting mode.
2. EUT RF output port connected to the SA by RF cable.
3. Set spectrum analyzer Start Freq. = 2400 MHz, Stop Freq. = 2441 MHz for Low range, Start Freq. = 2441 MHz, Stop Freq. = 2483.5 MHz for High range ; RBW=430KHz, VBW = 1.5MHz.
4. Max hold, view and count how many channel in the band.

4.5.3 Test Setup



Report No.: T210730W08-RP1

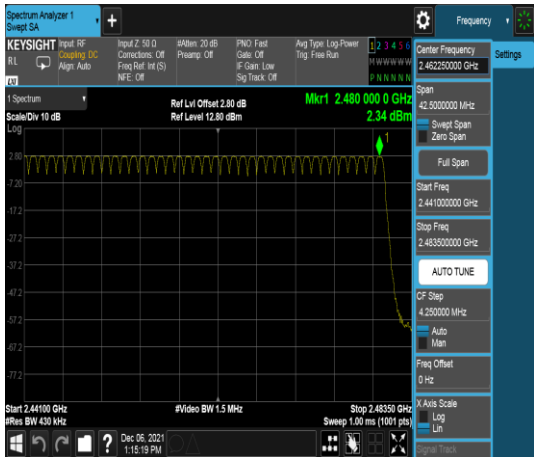
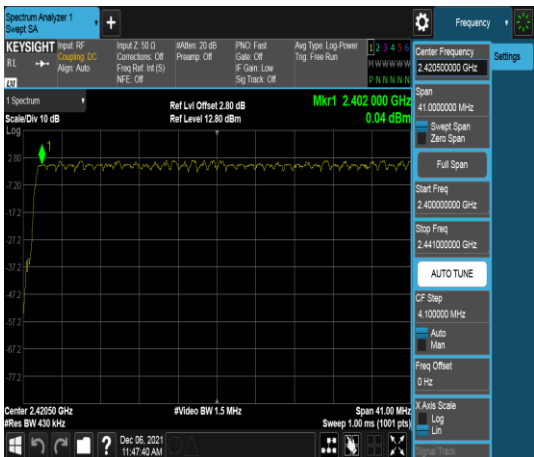
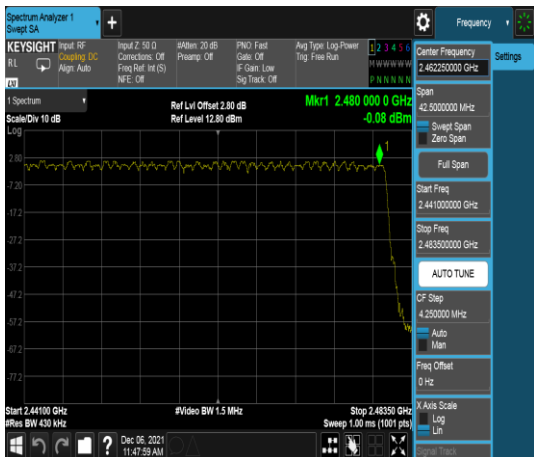
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4.5.4 Test Result

Temperature: 20.8°C **Humidity:** 60% RH
Tested by: Lance Chen **Test date:** December 6, 2021

Number of Hopping				
Mode	Frequency (MHz)	Hopping Channel Number	Hopping Channel Number Limits	Result
BDR-1Mbps	2402-2480	79	15	Pass
EDR-3Mbps	2402-2480	79	15	

Test Data

Number of Hopping	
GFSK_BDR-1Mbps mode	
Low	High
	
8DPSK_EDR-3Mbps mode	
Low	High
	

4.6 CONDUCTED BANDEDGE AND SPURIOUS EMISSION

4.6.1 Test Limit

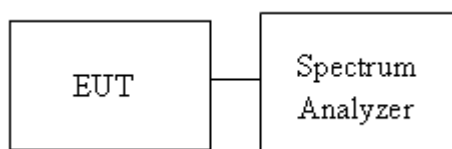
According to §15.247(d) and RSS-247 section 5.5

Limit	-20 dBc
-------	---------

4.6.2 Test Procedure

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
3. The Band Edge at 2.4GHz and 2.4835GHz are investigated with both hopping "ON" and "OFF" modes ".

4.6.3 Test Setup



Report No.: T210730W08-RP1

4.6.4 Test Result

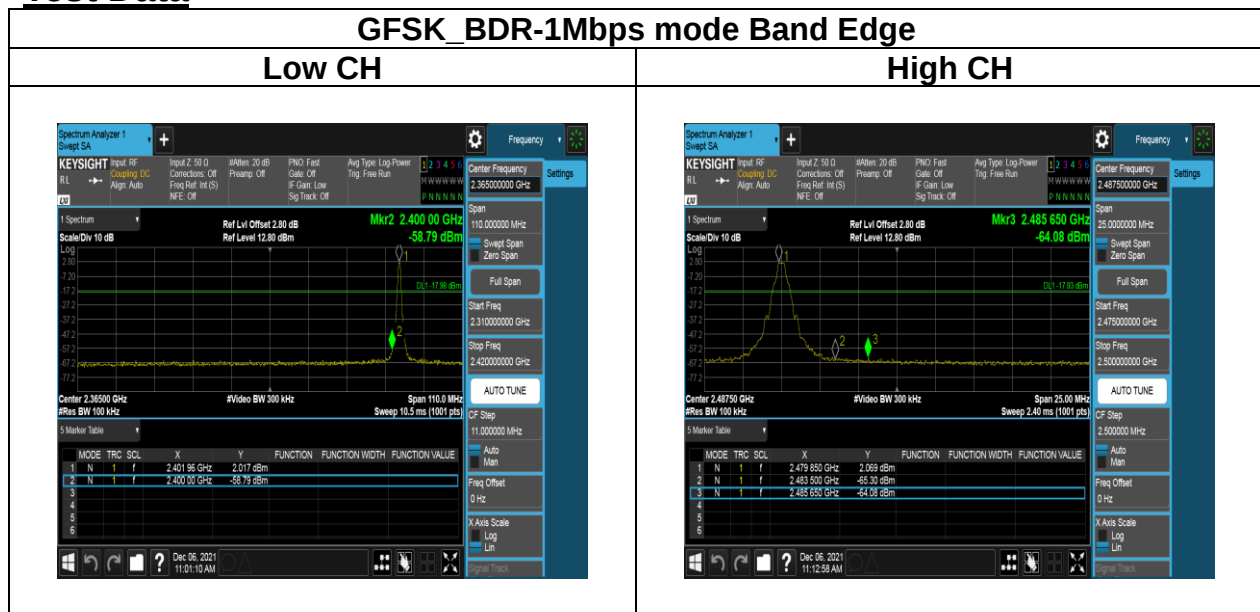
Temperature: 20.8°C

Humidity: 60% RH

Tested by: Lance Chen

Test date: December 6, 2021

Test Data



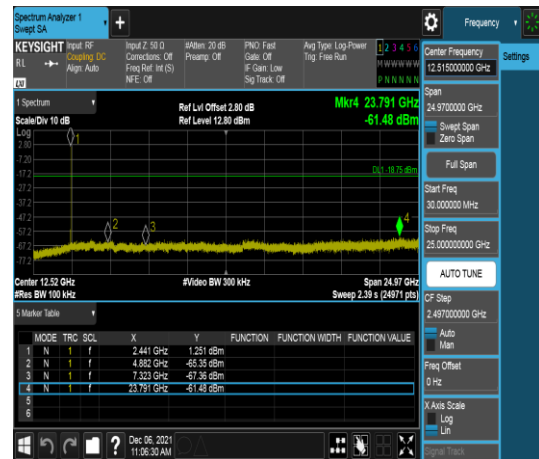
Report No.: T210730W08-RP1

GFSK_BDR-1Mbps mode Spurious Emission 30MHz-25GHz

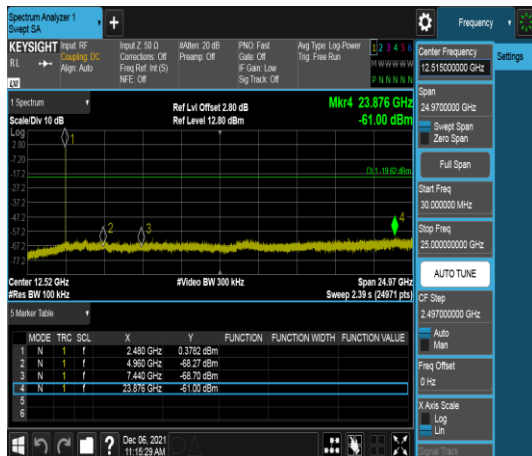
Low CH

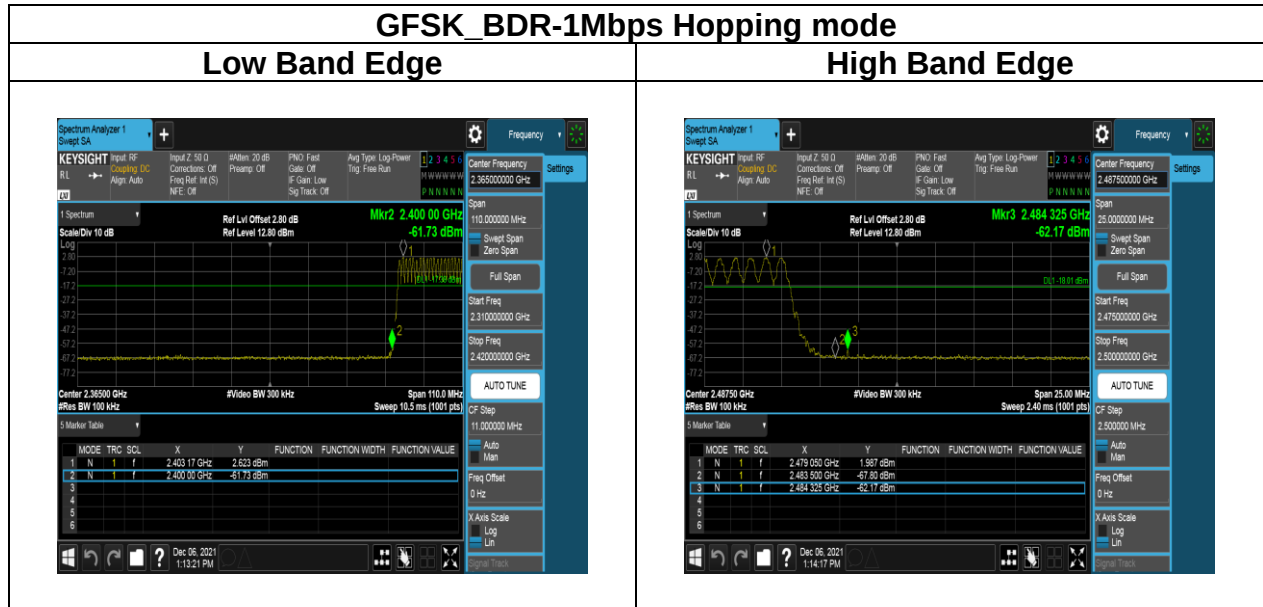


Mid CH



High CH





$\pi/4$ -DQPSK_EDR-2Mbps mode Spurious Emission 30MHz-25GHz

Low CH



Mid CH



High CH



Report No.: T210730W08-RP1

8DPSK_EDR-3Mbps mode Band Edge

Low CH



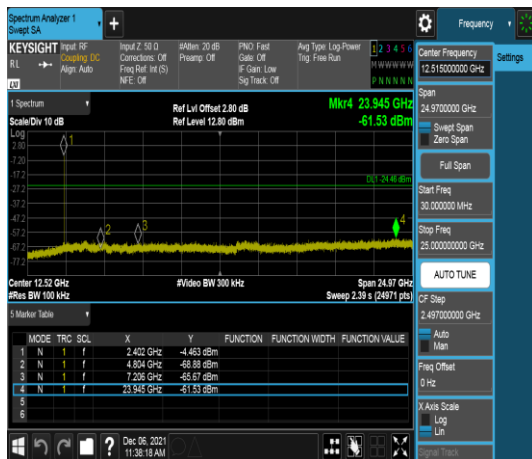
High CH



Report No.: T210730W08-RP1

8DPSK_EDR-3Mbps mode Spurious Emission 30MHz-25GHz

Low CH



Mid CH



High CH



Report No.: T210730W08-RP1

8DPSK_EDR-3Mbps mode Hopping mode

Low Band Edge



High Band Edge



4.7 TIME OF OCCUPANCY (DWELL TIME)

4.7.1 Test Limit

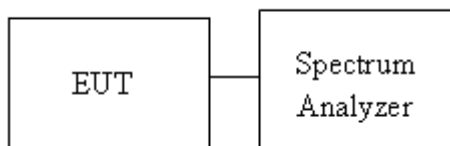
According to §15.247(a)(1)(iii) and RSS-247 section 5.1(d)

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.

4.7.2 Test Procedure

1. EUT RF output port connected to the SA by RF cable.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW, VBW=1MHz, Sweep = 1 ms

4.7.3 Test Setup



4.7.4 Test Result

Temperature: 20.8°C

Humidity: 60% RH

Tested by: Lance Chen

Test date: December 6, 2021

Report No.: T210730W08-RP1

For GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	1/T (kHz)
Mid	DH1	120.00	400ms	3.00
	DH3	260.80	400ms	1.00
	DH5	307.20	400ms	1.00

CH Mid DH1 time slot = $0.375 * (1600/2/79) * 31.6 = 120.00 \text{ (ms)}$
 DH3 time slot = $1.630 * (1600/4/79) * 31.6 = 260.80 \text{ (ms)}$
 DH5 time slot = $2.880 * (1600/6/79) * 31.6 = 307.20 \text{ (ms)}$

For $\pi/4$ DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	1/T (kHz)
Mid	2DH1	124.80	400ms	3.00
	2DH3	262.40	400ms	1.00
	2DH5	307.20	400ms	1.00

CH Mid 2DH1 time slot = $0.390 * (1600/2/79) * 31.6 = 124.80 \text{ (ms)}$
 2DH3 time slot = $1.640 * (1600/4/79) * 31.6 = 262.40 \text{ (ms)}$
 2DH5 time slot = $2.880 * (1600/6/79) * 31.6 = 307.20 \text{ (ms)}$

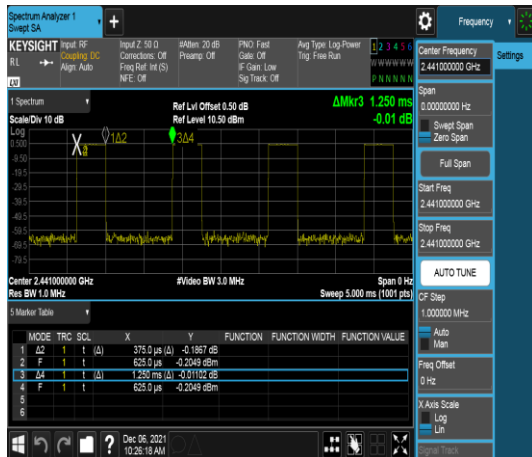
For 8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	1/T (kHz)
Mid	3DH1	124.80	400ms	3.00
	3DH3	262.40	400ms	1.00
	3DH5	307.20	400ms	1.00

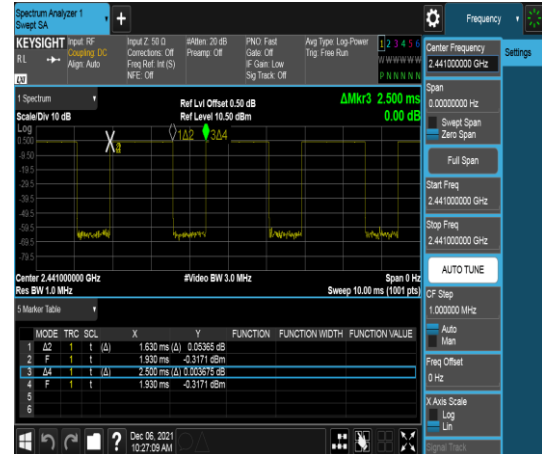
CH Mid 3DH1 time slot = $0.390 * (1600/2/79) * 31.6 = 124.80 \text{ (ms)}$
 3DH3 time slot = $1.640 * (1600/4/79) * 31.6 = 262.40 \text{ (ms)}$
 3DH5 time slot = $2.880 * (1600/6/79) * 31.6 = 307.20 \text{ (ms)}$

Report No.: T210730W08-RP1
For GFSK (1Mbps)

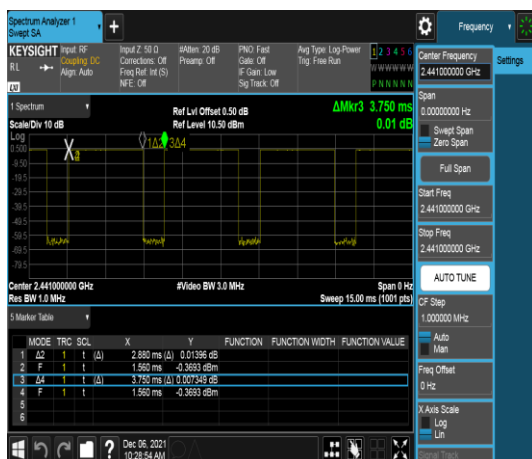
DH1



DH3

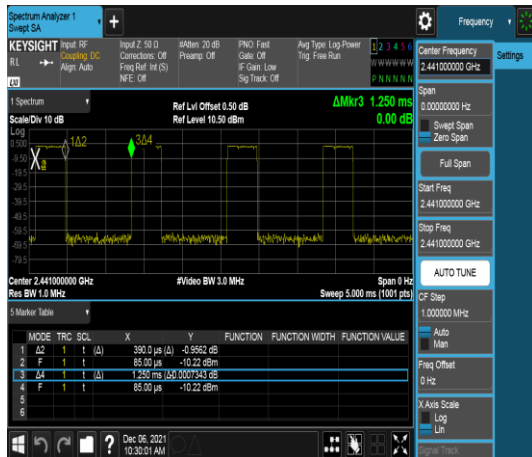


DH5



Report No.: T210730W08-RP1
For $\pi/4$ DQPSK (2Mbps)

2DH1



2DH3



2DH5

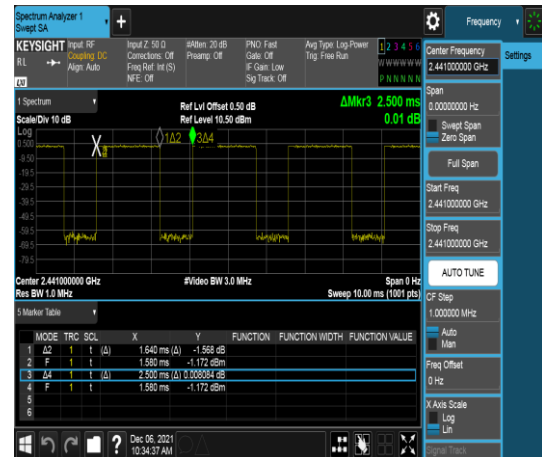


Report No.: T210730W08-RP1
For 8-DPSK (3Mbps)

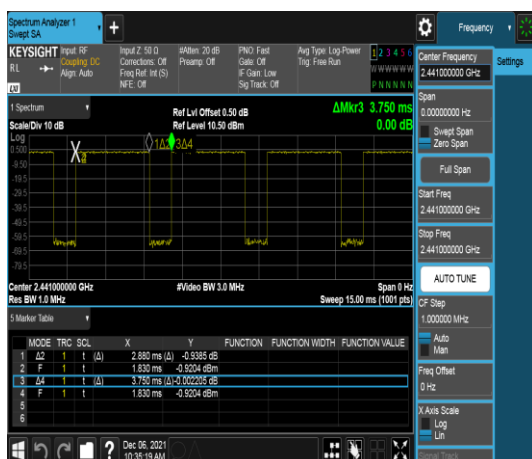
3DH1



3DH3



3DH5



4.8 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.8.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area 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.

IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz ^(Note)

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Note: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement Distance (m)
9-490 kHz ^{Note}	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

4.8.2 Test Procedure

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

4. For harmonic, the worst case of output power was BDR-1Mbps. Therefore only BDR-1Mbps record in the report.

5. The SA setting following :

(1) Below 1G : RBW = 100kHz, VBW $\geq$ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2) Above 1G :

(2.1) For Peak measurement : RBW = 1MHz, VBW $\geq$ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2.2) For Average measurement : RBW = 1MHz, VBW

·If Duty Cycle $\geq$ 98%, VBW=10Hz.

·If Duty Cycle < 98%, VBW $\geq$ 1/T.

6. Data result

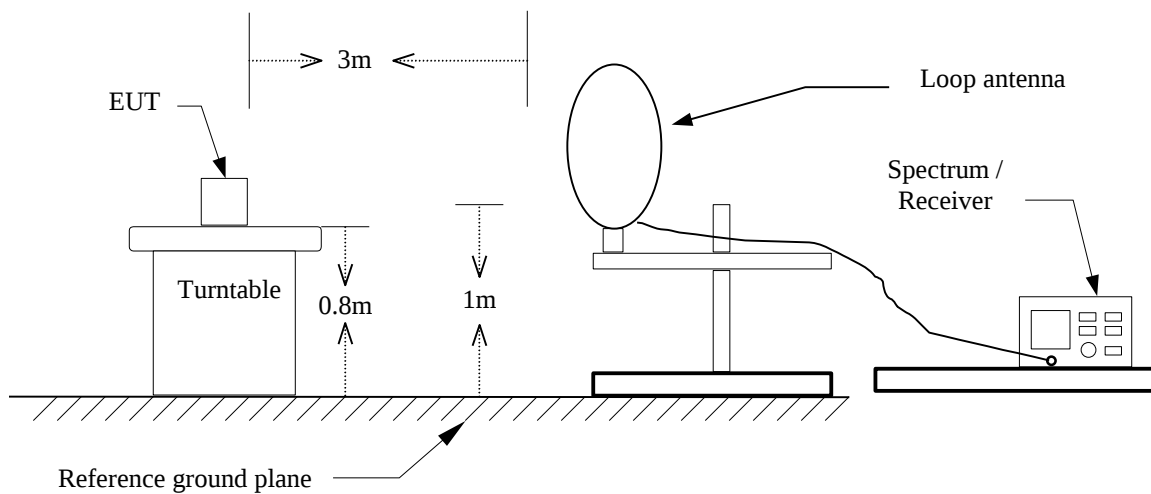
Actual FS=Spectrum Reading Level + Factor

Margin=Actual FS- Limit

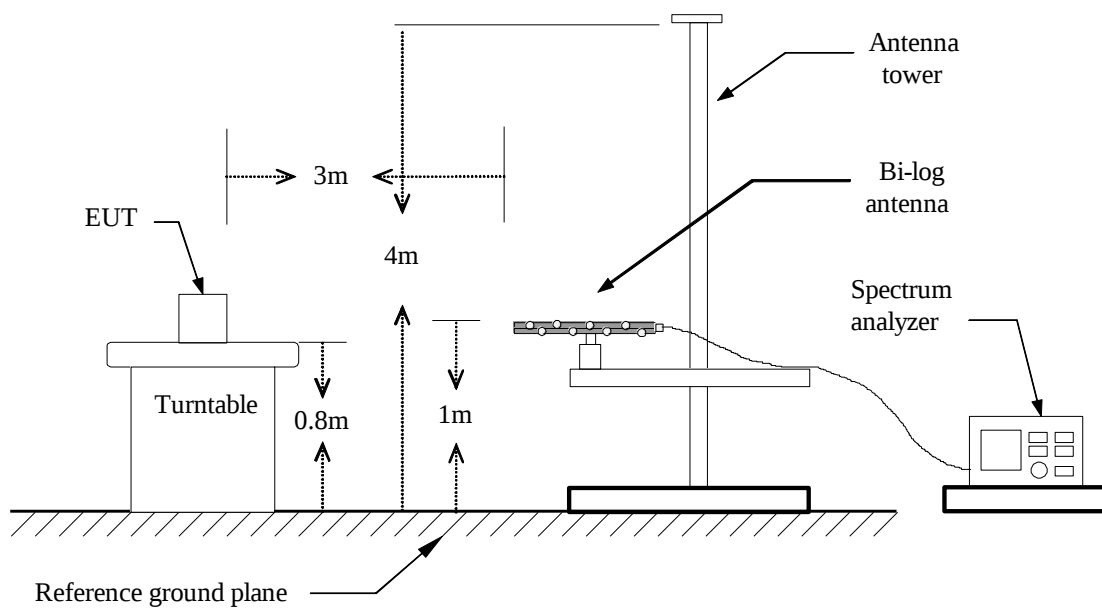
Report No.: T210730W08-RP1

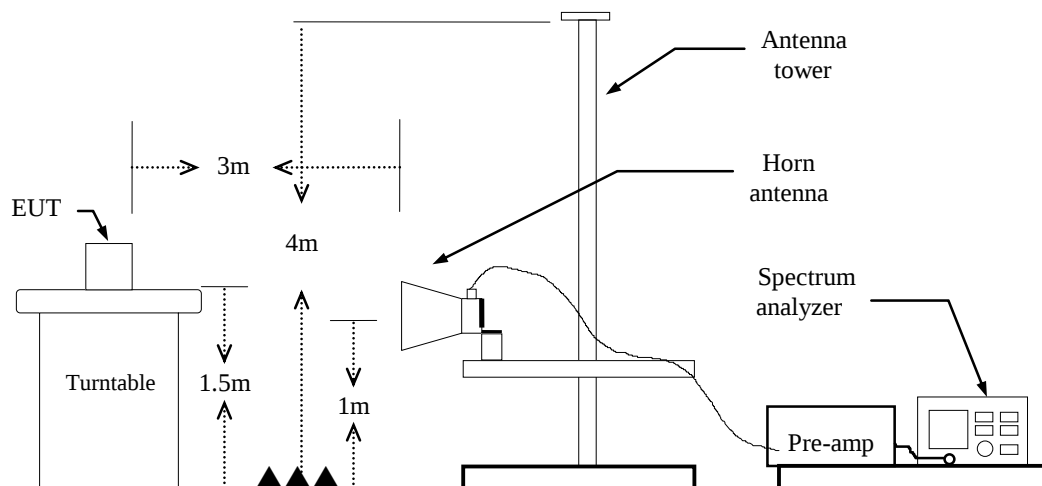
4.8.3 Test Setup

9kHz ~ 30MHz



30MHz ~ 1GHz

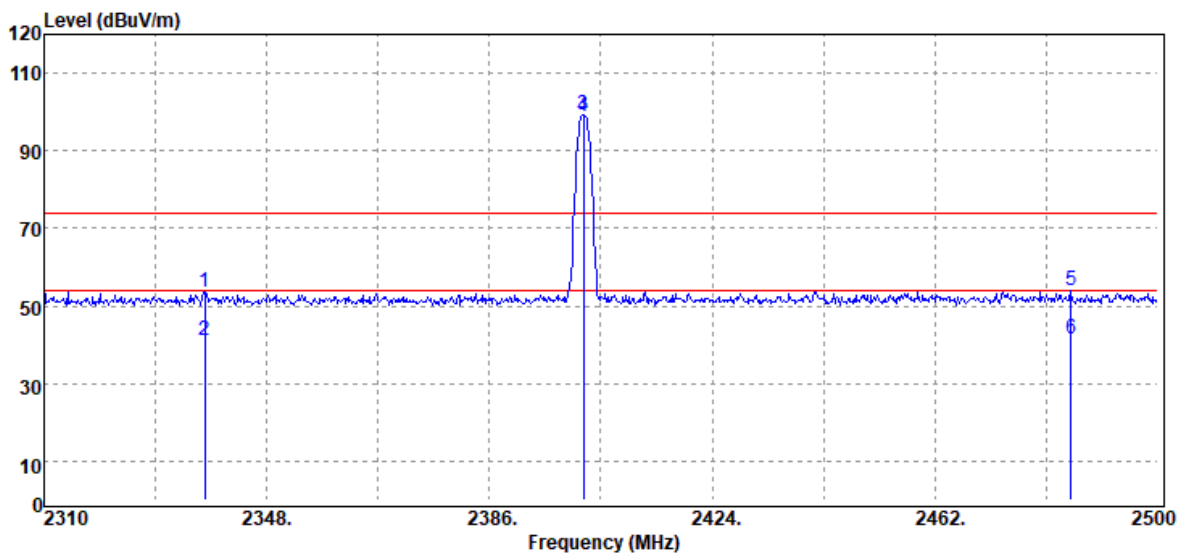


Above 1 GHz

4.8.4 Test Result

Band Edge Test Data

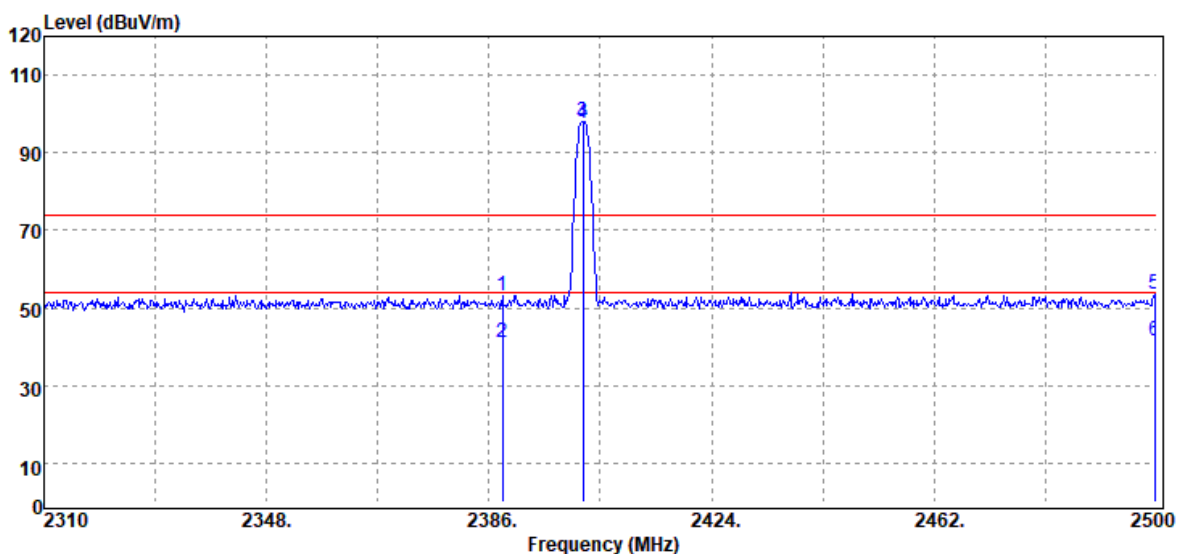
Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Band Edge	Test Date	December 8, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2373.36	Peak	41.36	12.26	53.62	74.00	-20.38
2373.36	Average	28.75	12.26	41.01	54.00	-12.99
2402.00	Peak	86.64	12.54	99.18	-	-
2402.00	Average	86.10	12.54	98.64	-	-
2485.18	Peak	40.76	13.09	53.85	74.00	-20.15
2485.18	Average	28.36	13.09	41.45	54.00	-12.55

Report No.: T210730W08-RP1

Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Band Edge	Test Date	December 8, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		



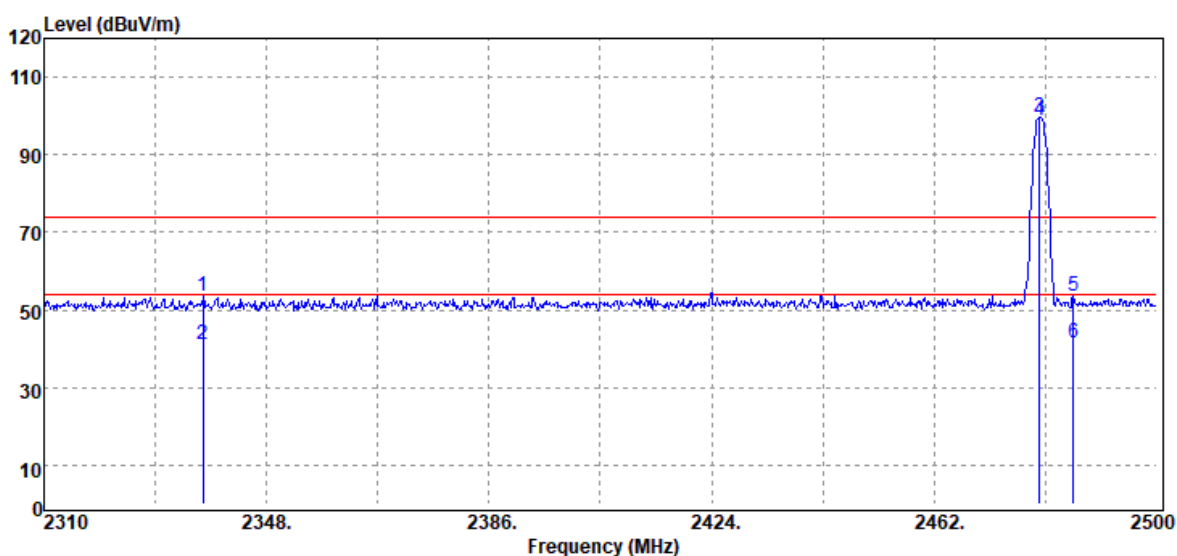
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.28	Peak	40.67	12.46	53.13	74.00	-20.87
2388.28	Average	28.75	12.46	41.21	54.00	-12.79
2402.00	Peak	85.63	12.54	98.17	-	-
2402.00	Average	85.10	12.54	97.64	-	-
2499.62	Peak	40.27	13.19	53.46	74.00	-20.54
2499.62	Average	28.43	13.19	41.62	54.00	-12.38

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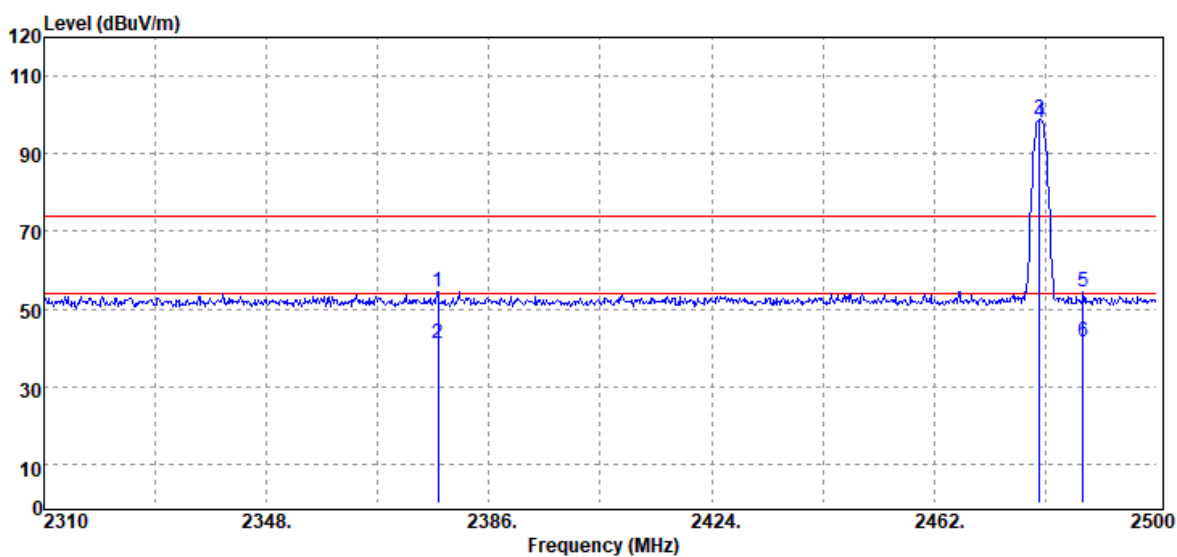
Rev.: 00

Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Band Edge	Test Date	December 8, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2337.17	Peak	41.20	12.26	53.46	74.00	-20.54
2337.17	Average	28.76	12.26	41.02	54.00	-12.98
2480.00	Peak	86.55	13.06	99.61	-	-
2480.00	Average	85.96	13.06	99.02	-	-
2485.75	Peak	40.35	13.09	53.44	74.00	-20.56
2485.75	Average	28.39	13.09	41.48	54.00	-12.52

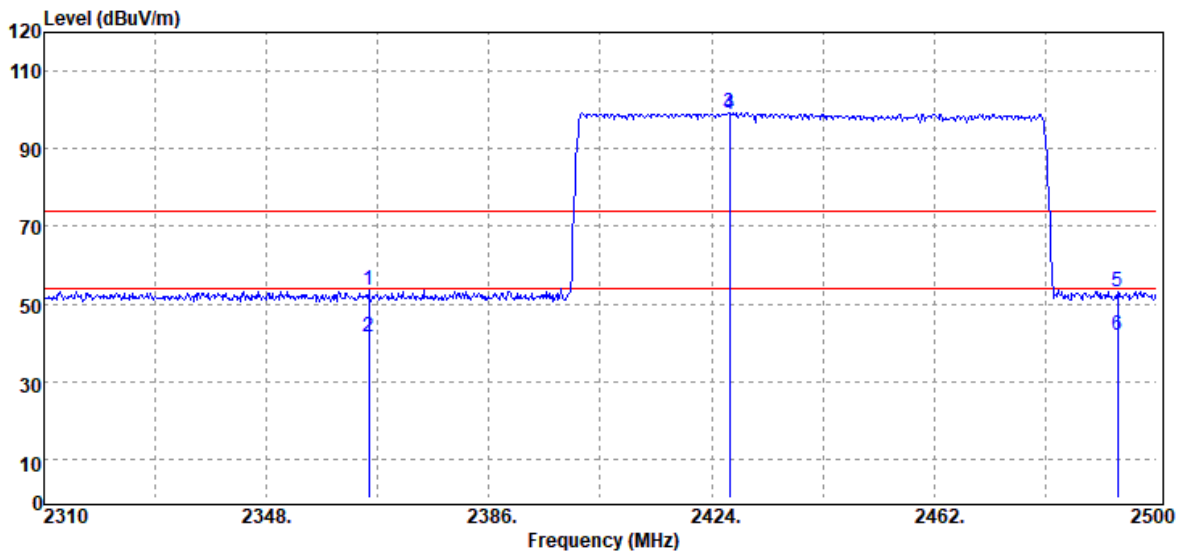
Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Band Edge	Test Date	December 8, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2377.26	Peak	42.01	12.42	54.43	74.00	-19.57
2377.26	Average	28.65	12.42	41.07	54.00	-12.93
2480.00	Peak	85.67	13.06	98.73	-	-
2480.00	Average	85.11	13.06	98.17	-	-
2487.46	Peak	41.30	13.10	54.40	74.00	-19.60
2487.46	Average	28.46	13.10	41.56	54.00	-12.44

Report No.: T210730W08-RP1

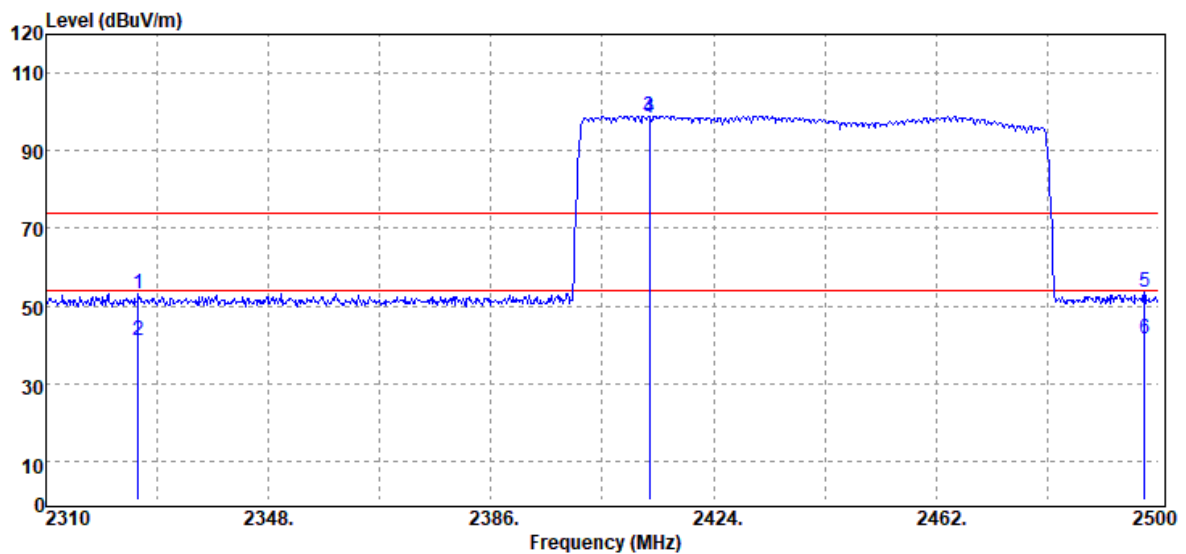
Test Mode:	GFSK_BDR-1Mbps Hopping	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Band Edge	Test Date	December 8, 2021
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2365.48	Peak	41.14	12.35	53.49	74.00	-20.51
2365.48	Average	29.29	12.35	41.64	54.00	-12.36
2427.00	Peak	86.54	12.70	99.24	-	-
2427.00	Average	85.97	12.70	98.67	-	-
2493.35	Peak	40.22	13.14	53.36	74.00	-20.64
2493.35	Average	28.99	13.14	42.13	54.00	-11.87

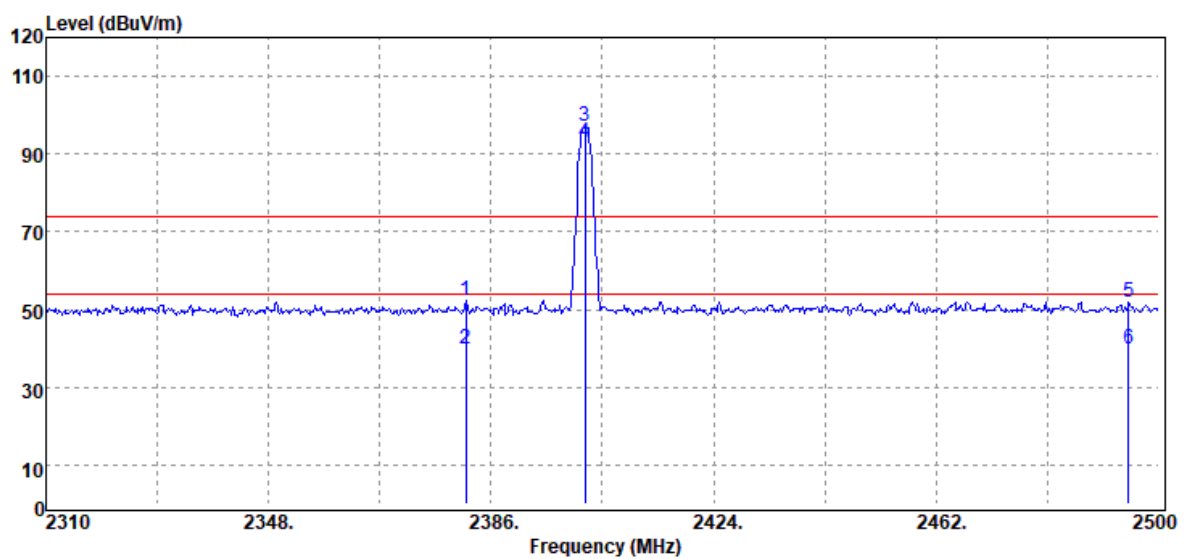
Report No.: T210730W08-RP1

Test Mode:	GFSK_BDR-1Mbps Hopping	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Band Edge	Test Date	December 8, 2021
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2325.77	Peak	41.09	12.24	53.33	74.00	-20.67
2325.77	Average	29.05	12.24	41.29	54.00	-12.71
2413.00	Peak	86.33	12.61	98.94	-	-
2413.00	Average	85.78	12.61	98.39	-	-
2497.53	Peak	40.40	13.18	53.58	74.00	-20.42
2497.53	Average	28.44	13.18	41.62	54.00	-12.38

Test Mode:	8DPSK_EDR-3Mbps Low CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Band Edge	Test Date	December 8, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



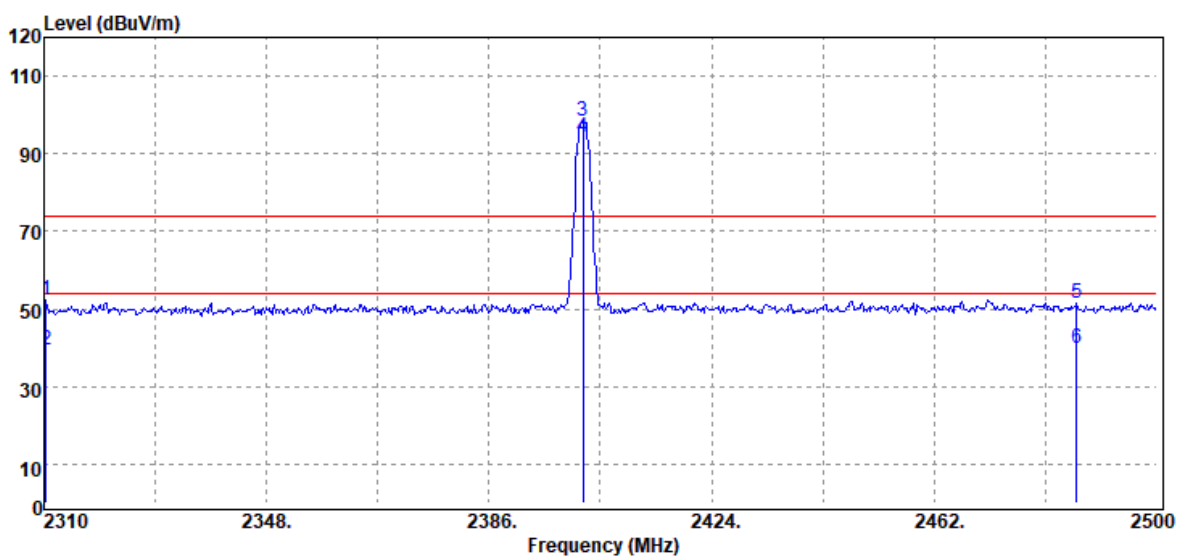
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2381.63	Peak	39.77	12.44	52.21	74.00	-21.79
2381.63	Average	27.25	12.44	39.69	54.00	-14.31
2402.00	Peak	84.43	12.54	96.97	-	-
2402.00	Average	80.54	12.54	93.08	-	-
2494.87	Peak	38.90	13.15	52.05	74.00	-21.95
2494.87	Average	26.91	13.15	40.06	54.00	-13.94

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Test Mode:	8DPSK_EDR-3Mbps Low CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Band Edge	Test Date	December 8, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



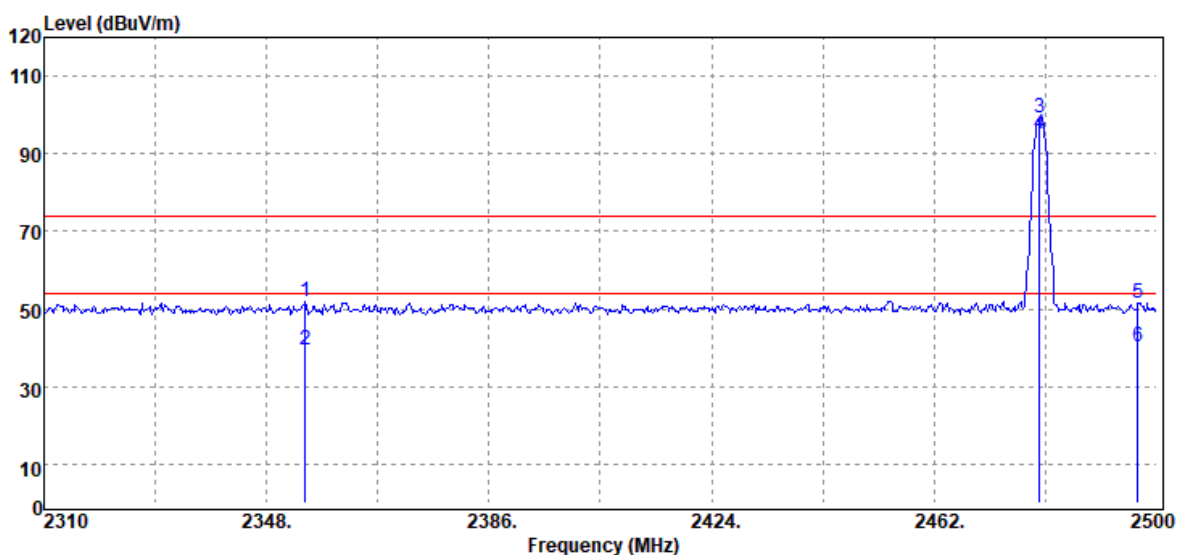
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2310.38	Peak	40.22	12.22	52.44	74.00	-21.56
2310.38	Average	27.26	12.22	39.48	54.00	-14.52
2402.00	Peak	85.79	12.54	98.33	-	-
2402.00	Average	81.80	12.54	94.34	-	-
2486.32	Peak	38.34	13.10	51.44	74.00	-22.56
2486.32	Average	26.89	13.10	39.99	54.00	-14.01

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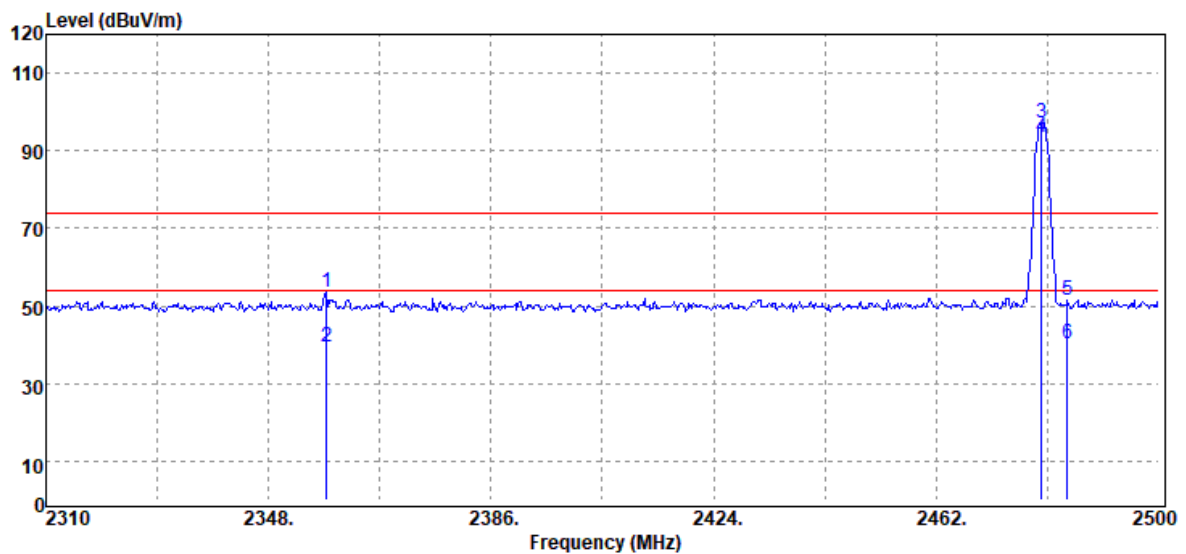
Test Mode:	8DPSK_EDR-3Mbps High CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Band Edge	Test Date	December 8, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2354.65	Peak	39.66	12.31	51.97	74.00	-22.03
2354.65	Average	27.30	12.31	39.61	54.00	-14.39
2480.00	Peak	86.09	13.06	99.15	-	-
2480.00	Average	82.10	13.06	95.16	-	-
2496.77	Peak	38.50	13.17	51.67	74.00	-22.33
2496.77	Average	27.13	13.17	40.30	54.00	-13.70

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Test Mode:	8DPSK_EDR-3Mbps High CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Band Edge	Test Date	December 8, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



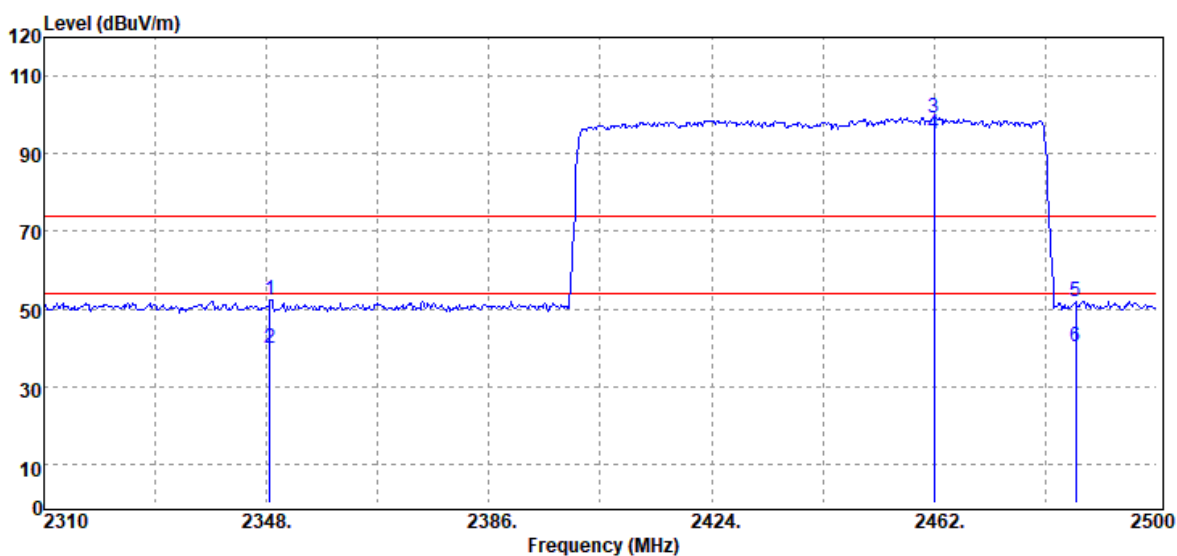
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2357.88	Peak	41.20	12.32	53.52	74.00	-20.48
2357.88	Average	27.25	12.32	39.57	54.00	-14.43
2480.00	Peak	84.29	13.06	97.35	-	-
2480.00	Average	80.39	13.06	93.45	-	-
2484.42	Peak	38.39	13.09	51.48	74.00	-22.52
2484.42	Average	27.07	13.09	40.16	54.00	-13.84

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Test Mode:	8DPSK_EDR-3Mbps Hopping	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Band Edge	Test Date	December 8, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



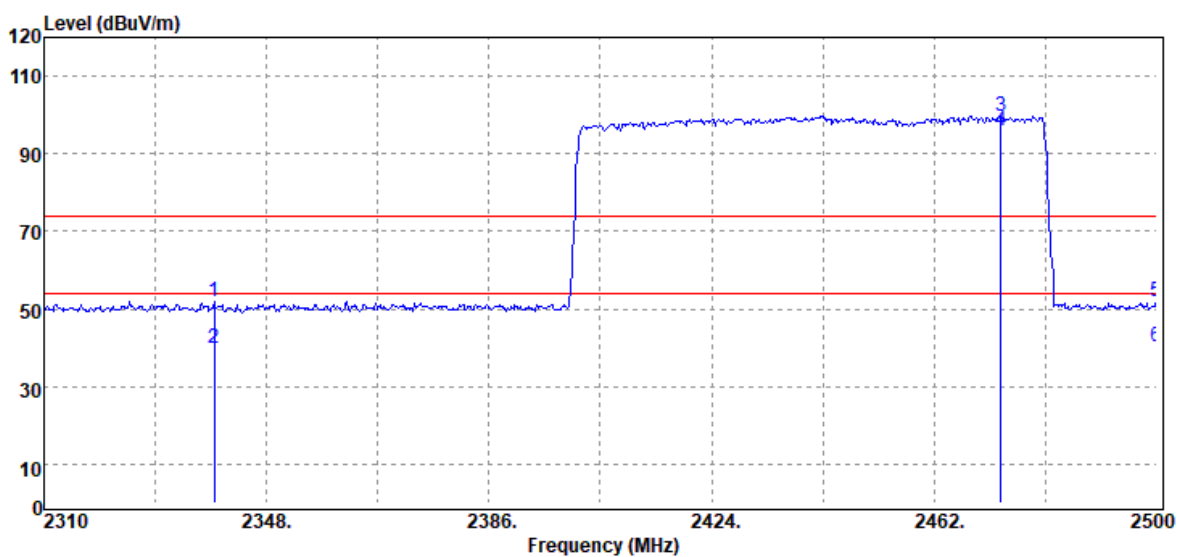
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2348.57	Peak	39.90	12.28	52.18	74.00	-21.82
2348.57	Average	27.70	12.28	39.98	54.00	-14.02
2462.00	Peak	86.39	12.93	99.32	-	-
2462.00	Average	82.36	12.93	95.29	-	-
2486.13	Peak	38.95	13.09	52.04	74.00	-21.96
2486.13	Average	27.04	13.09	40.13	54.00	-13.87

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Test Mode:	8DPSK_EDR-3Mbps Hopping	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Band Edge	Test Date	December 8, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

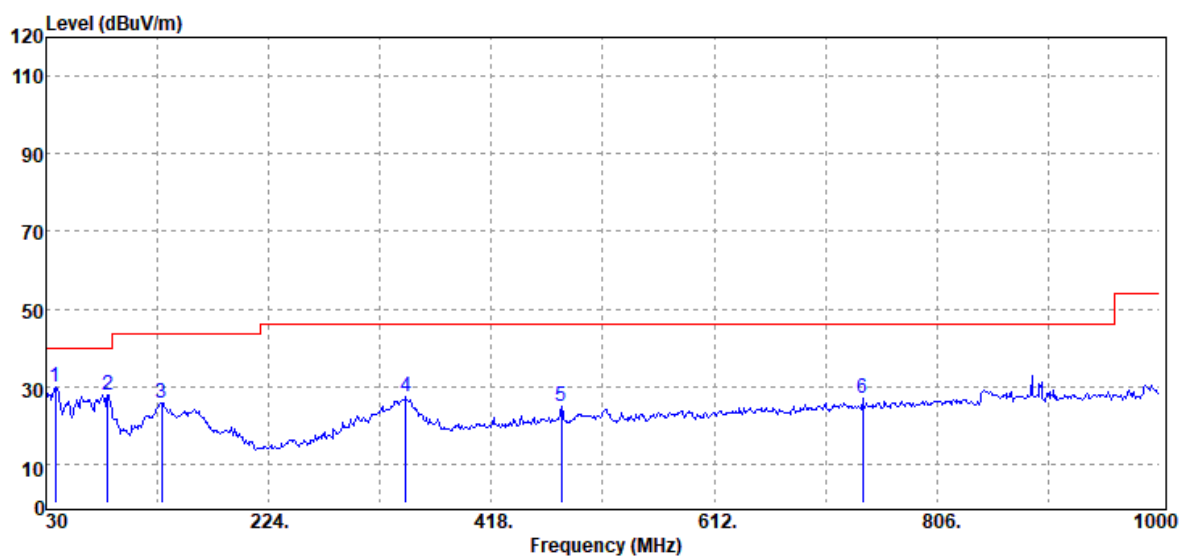


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2339.07	Peak	39.71	12.26	51.97	74.00	-22.03
2339.07	Average	27.54	12.26	39.80	54.00	-14.20
2473.40	Peak	86.80	13.01	99.81	-	-
2473.40	Average	82.84	13.01	95.85	-	-
2500.00	Peak	38.55	13.19	51.74	74.00	-22.26
2500.00	Average	26.95	13.19	40.14	54.00	-13.86

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Below 1G Test Data

Test Mode:	BT Mode	Temp/Hum	20.4(°C)/ 52%RH
Test Item	30MHz-1GHz	Test Date	December 8, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



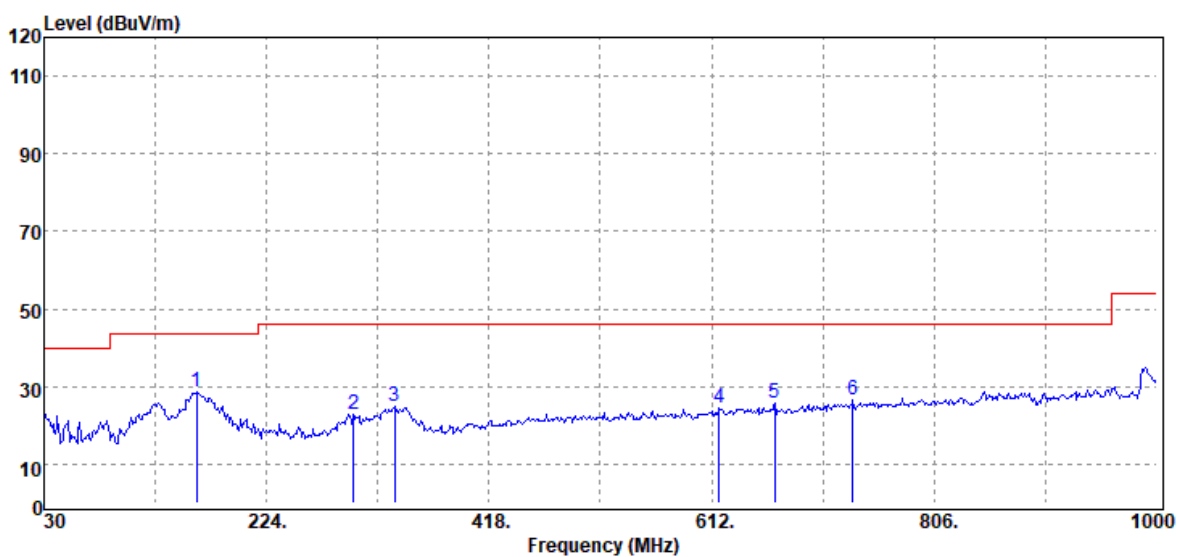
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.76	Peak	37.84	-8.03	29.81	40.00	-10.19
83.35	Peak	43.81	-15.86	27.95	40.00	-12.05
130.88	Peak	35.09	-9.17	25.92	43.50	-17.58
343.31	Peak	35.41	-7.85	27.56	46.00	-18.44
479.11	Peak	28.32	-3.39	24.93	46.00	-21.07
741.01	Peak	26.60	0.56	27.16	46.00	-18.84

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Test Mode:	BT Mode	Temp/Hum	20.4(°C)/ 52%RH
Test Item	30MHz-1GHz	Test Date	December 8, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		

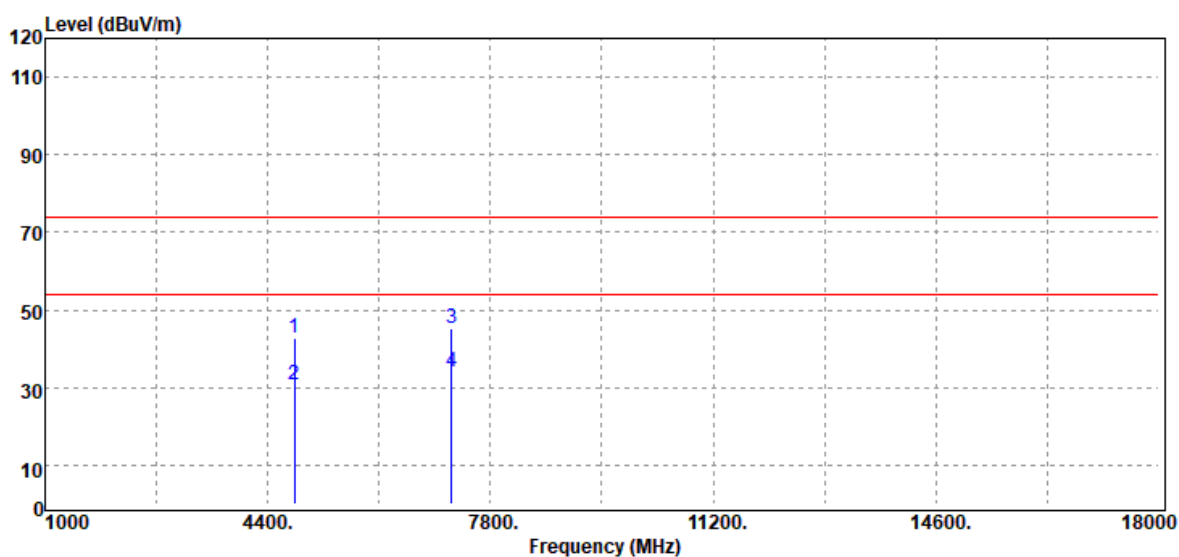


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
162.89	Peak	39.34	-10.72	28.62	43.50	-14.88
299.66	Peak	31.57	-8.80	22.77	46.00	-23.23
335.55	Peak	32.81	-7.99	24.82	46.00	-21.18
618.79	Peak	25.85	-1.44	24.41	46.00	-21.59
667.29	Peak	26.48	-0.63	25.85	46.00	-20.15
735.19	Peak	25.94	0.47	26.41	46.00	-19.59

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Above 1G Test Data

Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Harmonic	Test Date	December 8, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	1GHz ~ 18GHz

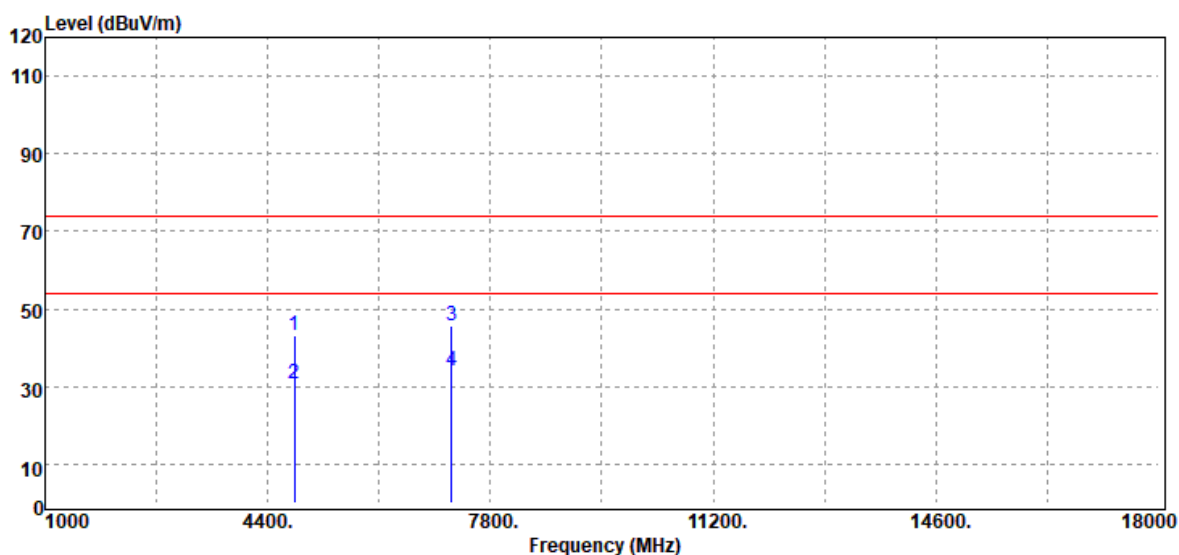


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Peak	33.21	9.47	42.68	74.00	-31.32
4804.00	Average	21.29	9.47	30.76	54.00	-23.24
7206.00	Peak	31.95	13.51	45.46	74.00	-28.54
7206.00	Average	20.35	13.51	33.86	54.00	-20.14

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Harmonic	Test Date	December 8, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	1GHz ~ 18GHz



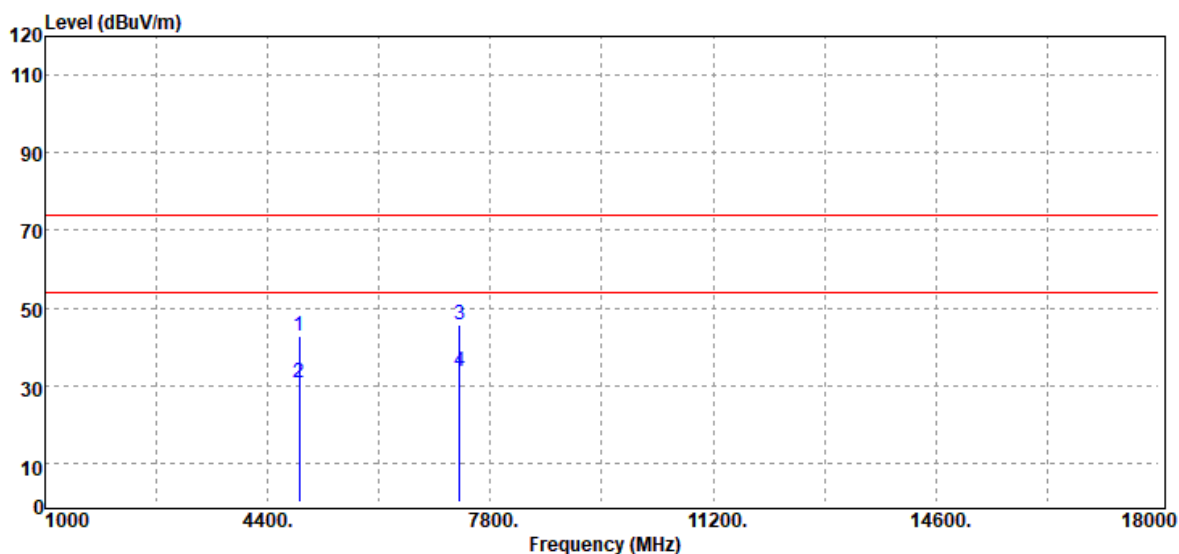
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Peak	33.64	9.47	43.11	74.00	-30.89
4804.00	Average	21.42	9.47	30.89	54.00	-23.11
7206.00	Peak	32.21	13.51	45.72	74.00	-28.28
7206.00	Average	20.37	13.51	33.88	54.00	-20.12

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: T210730W08-RP1

Test Mode:	GFSK_BDR-1Mbps Mid CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Harmonic	Test Date	December 8, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	1GHz ~ 18GHz



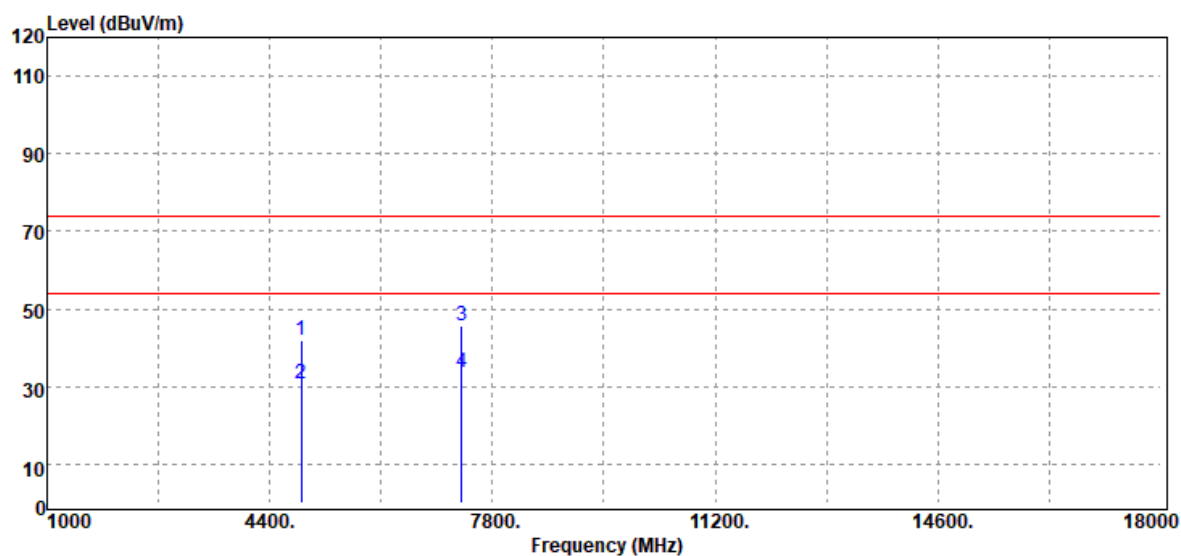
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	33.18	9.60	42.78	74.00	-31.22
4882.00	Average	21.15	9.60	30.75	54.00	-23.25
7323.00	Peak	32.36	13.24	45.60	74.00	-28.40
7323.00	Average	20.44	13.24	33.68	54.00	-20.32

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: T210730W08-RP1

Test Mode:	GFSK_BDR-1Mbps Mid CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Harmonic	Test Date	December 8, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	1GHz ~ 18GHz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	32.21	9.60	41.81	74.00	-32.19
4882.00	Average	21.11	9.60	30.71	54.00	-23.29
7323.00	Peak	32.62	13.24	45.86	74.00	-28.14
7323.00	Average	20.26	13.24	33.50	54.00	-20.50

Remark:

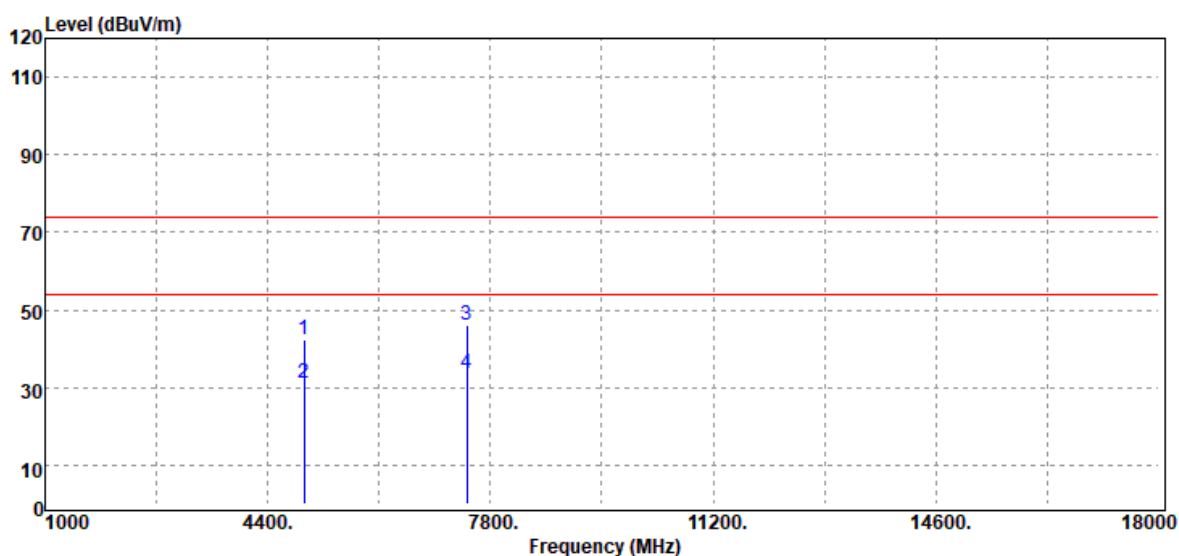
- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

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Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Harmonic	Test Date	December 8, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	1GHz ~ 18GHz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Peak	32.77	9.71	42.48	74.00	-31.52
4960.00	Average	21.57	9.71	31.28	54.00	-22.72
7440.00	Peak	32.51	13.54	46.05	74.00	-27.95
7440.00	Average	20.24	13.54	33.78	54.00	-20.22

Remark:

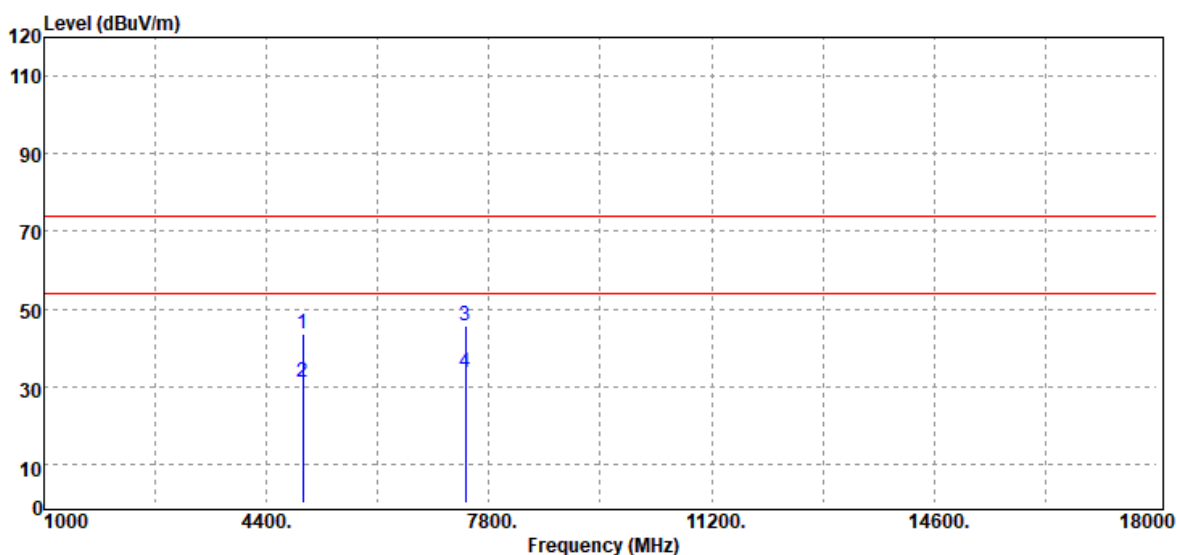
- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

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Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Harmonic	Test Date	December 8, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	1GHz ~ 18GHz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Peak	34.05	9.71	43.76	74.00	-30.24
4960.00	Average	21.33	9.71	31.04	54.00	-22.96
7440.00	Peak	32.22	13.54	45.76	74.00	-28.24
7440.00	Average	20.30	13.54	33.84	54.00	-20.16

Remark:

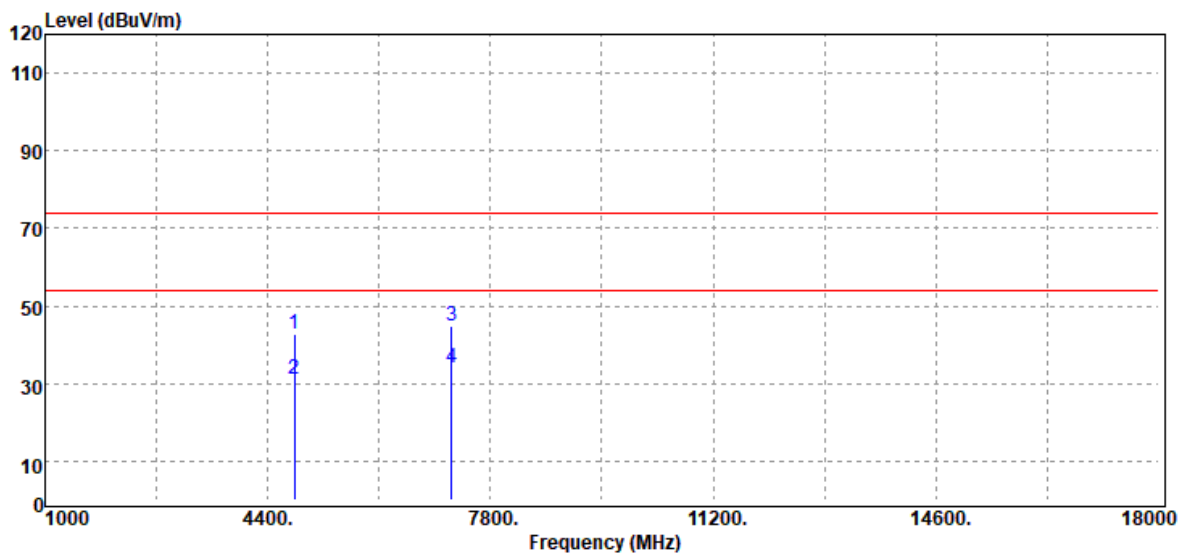
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

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Rev.: 00

Test Mode	8DPSK_EDR-3Mbps Low CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Harmonic	Test Date	December 8, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	1GHz ~ 18GHz

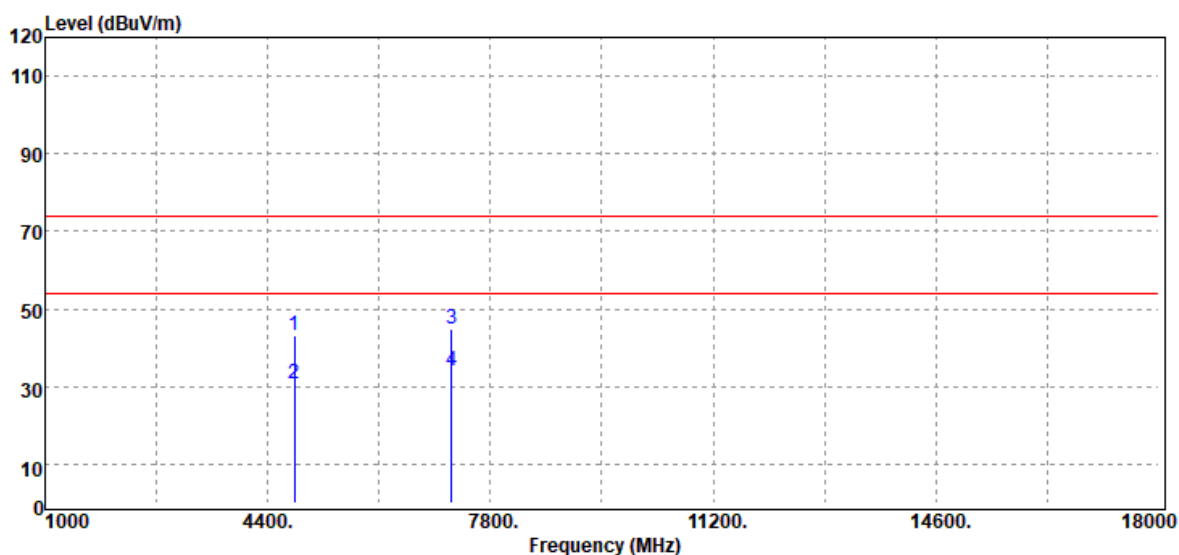


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Peak	33.10	9.47	42.57	74.00	-31.43
4804.00	Average	21.54	9.47	31.01	54.00	-22.99
7206.00	Peak	31.38	13.51	44.89	74.00	-29.11
7206.00	Average	20.44	13.51	33.95	54.00	-20.05

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	8DPSK_EDR-3Mbps Low CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Harmonic	Test Date	December 8, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	1GHz ~ 18GHz



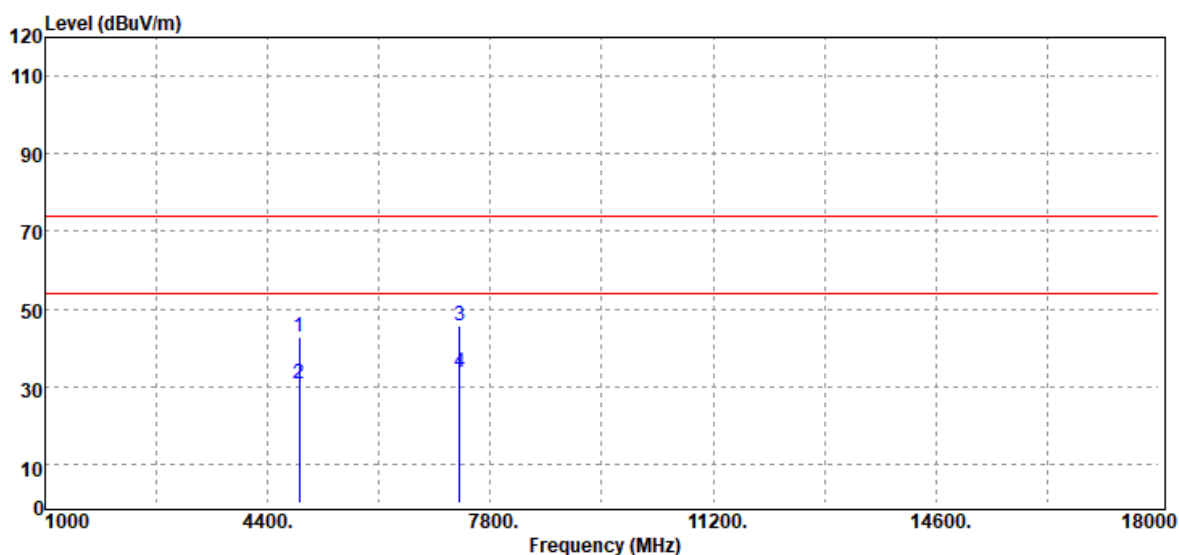
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Peak	33.62	9.47	43.09	74.00	-30.91
4804.00	Average	21.25	9.47	30.72	54.00	-23.28
7206.00	Peak	31.52	13.51	45.03	74.00	-28.97
7206.00	Average	20.53	13.51	34.04	54.00	-19.96

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: T210730W08-RP1

Test Mode	8DPSK_EDR-3Mbps Mid CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Harmonic	Test Date	December 8, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	1GHz ~ 18GHz

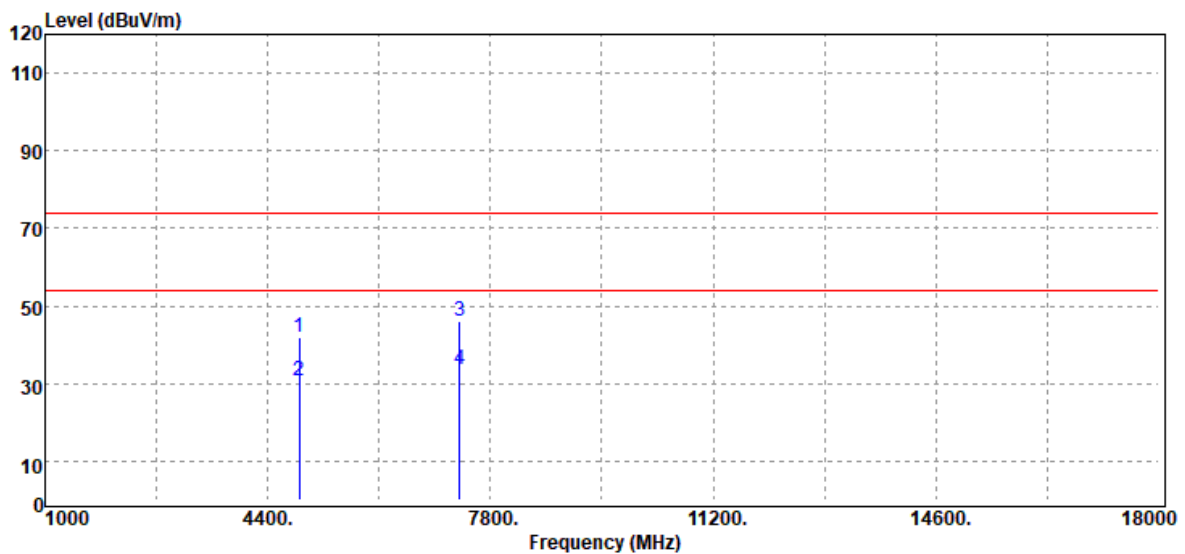


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	33.04	9.60	42.64	74.00	-31.36
4882.00	Average	21.05	9.60	30.65	54.00	-23.35
7323.00	Peak	32.47	13.24	45.71	74.00	-28.29
7323.00	Average	20.33	13.24	33.57	54.00	-20.43

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	8DPSK_EDR-3Mbps Mid CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Harmonic	Test Date	December 8, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	1GHz ~ 18GHz

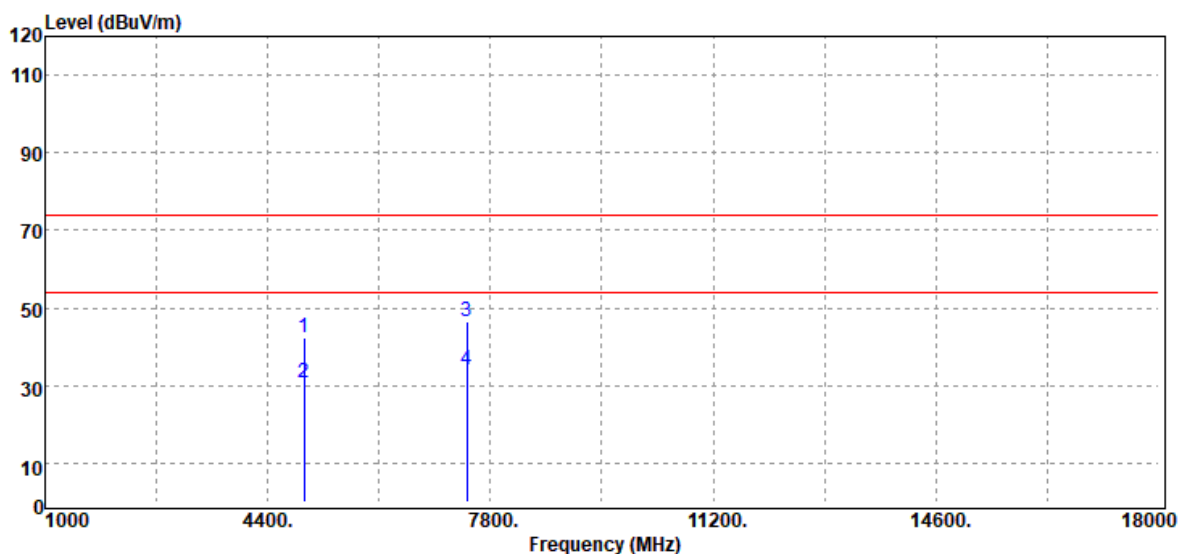


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	32.40	9.60	42.00	74.00	-32.00
4882.00	Average	21.19	9.60	30.79	54.00	-23.21
7323.00	Peak	33.00	13.24	46.24	74.00	-27.76
7323.00	Average	20.25	13.24	33.49	54.00	-20.51

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	8DPSK_EDR-3Mbps High CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Harmonic	Test Date	December 8, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	1GHz ~ 18GHz

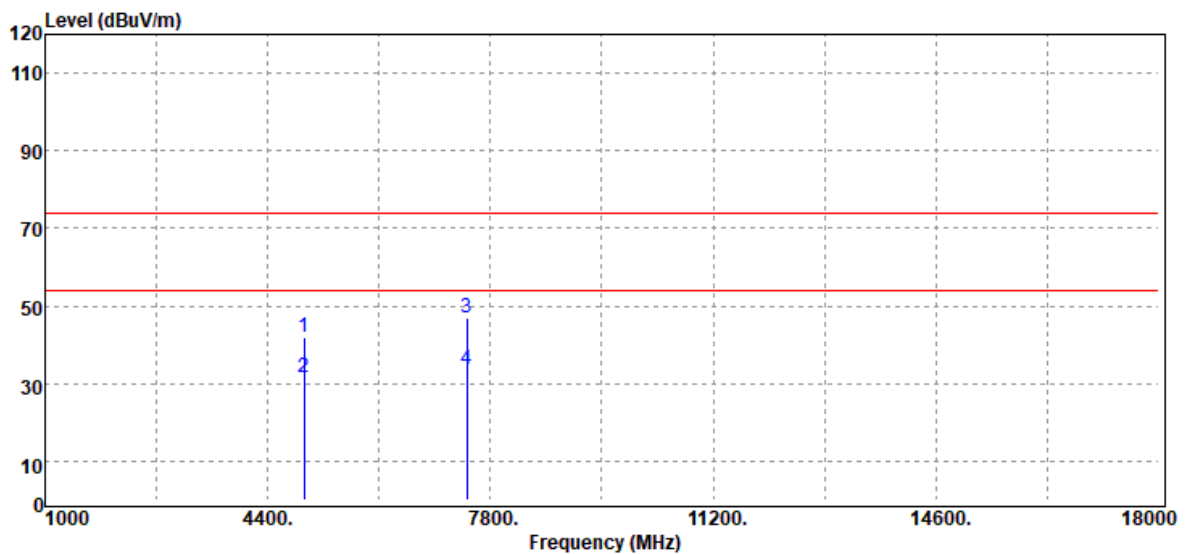


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Peak	32.44	9.71	42.15	74.00	-31.85
4960.00	Average	21.15	9.71	30.86	54.00	-23.14
7440.00	Peak	32.96	13.54	46.50	74.00	-27.50
7440.00	Average	20.58	13.54	34.12	54.00	-19.88

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	8DPSK_EDR-3Mbps High CH	Temp/Hum	20.4(°C)/ 52%RH
Test Item	Harmonic	Test Date	December 8, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	1GHz ~ 18GHz



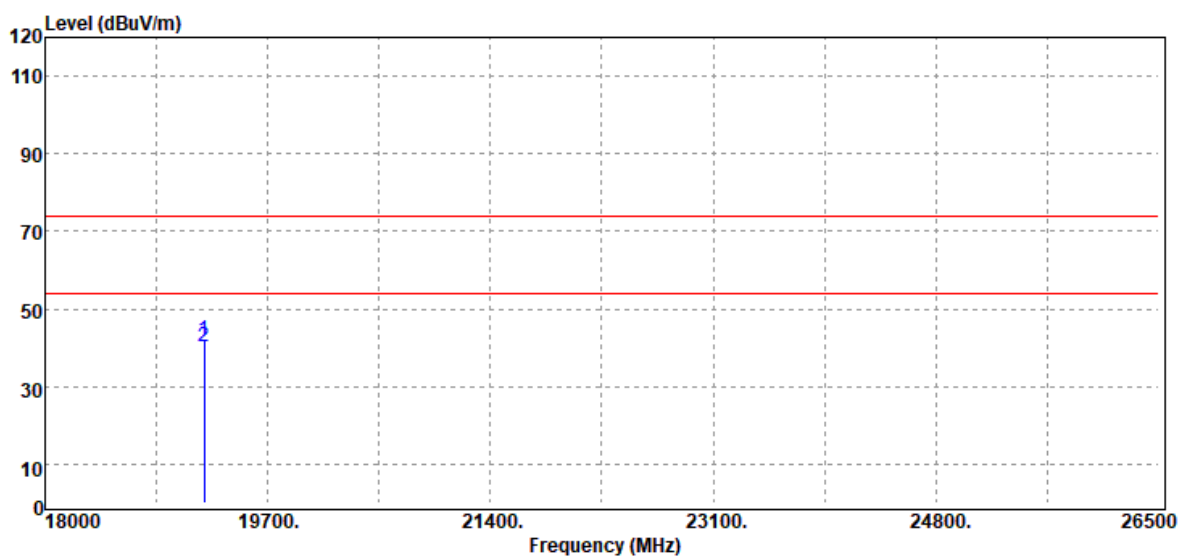
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Peak	32.31	9.71	42.02	74.00	-31.98
4960.00	Average	21.74	9.71	31.45	54.00	-22.55
7440.00	Peak	33.30	13.54	46.84	74.00	-27.16
7440.00	Average	20.25	13.54	33.79	54.00	-20.21

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: T210730W08-RP1

Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	21.8(°C)/ 64%RH
Test Item	Harmonic	Test Date	December 22, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	18GHz ~ 26.5GHz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
19216.00	Peak	30.09	11.75	41.84	74.00	-32.16
19216.00	Average	28.48	11.75	40.23	54.00	-13.77
N/A						

Remark:

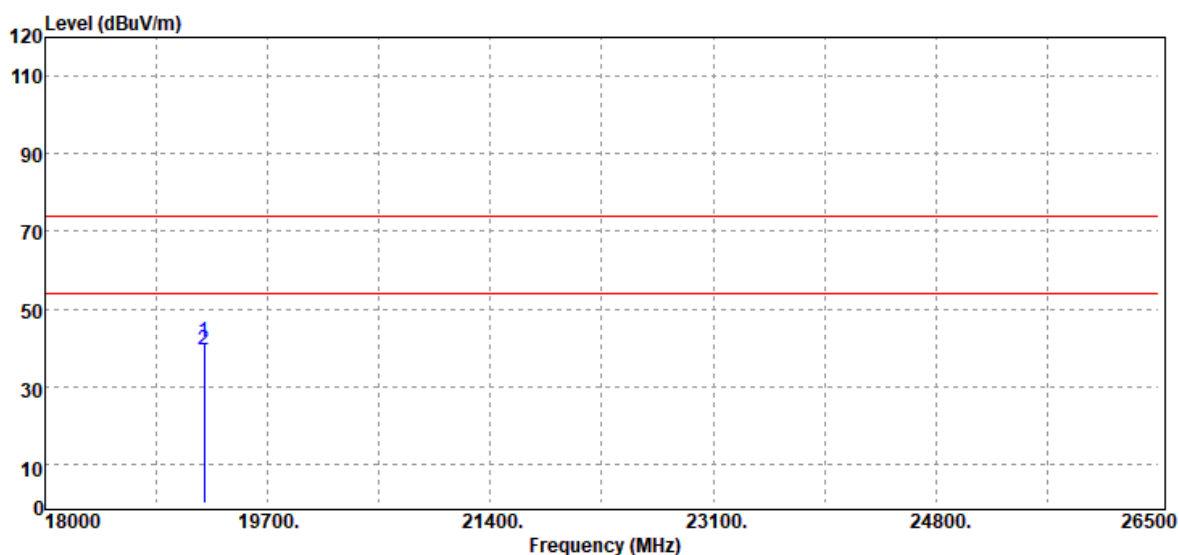
- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

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Rev.: 00

Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	21.8(°C)/ 64%RH
Test Item	Harmonic	Test Date	December 22, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	18GHz ~ 26.5GHz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
19216.00	Peak	29.59	11.75	41.34	74.00	-32.66
19216.00	Average	27.53	11.75	39.28	54.00	-14.72
N/A						

Remark:

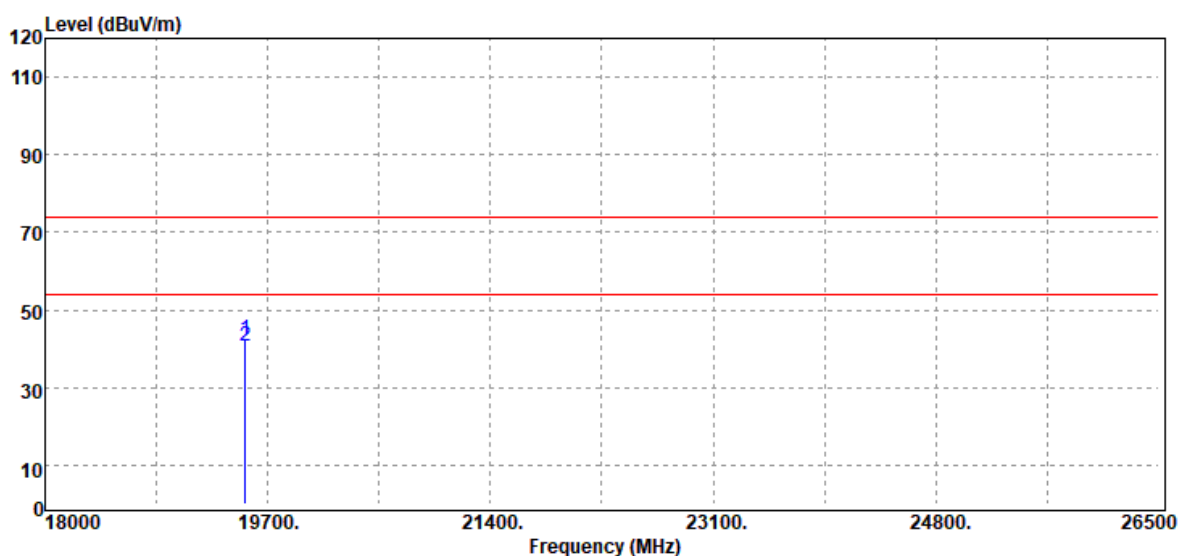
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

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Rev.: 00

Test Mode:	GFSK_BDR-1Mbps Mid CH	Temp/Hum	21.8(°C)/ 64%RH
Test Item	Harmonic	Test Date	December 22, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	18GHz ~ 26.5GHz



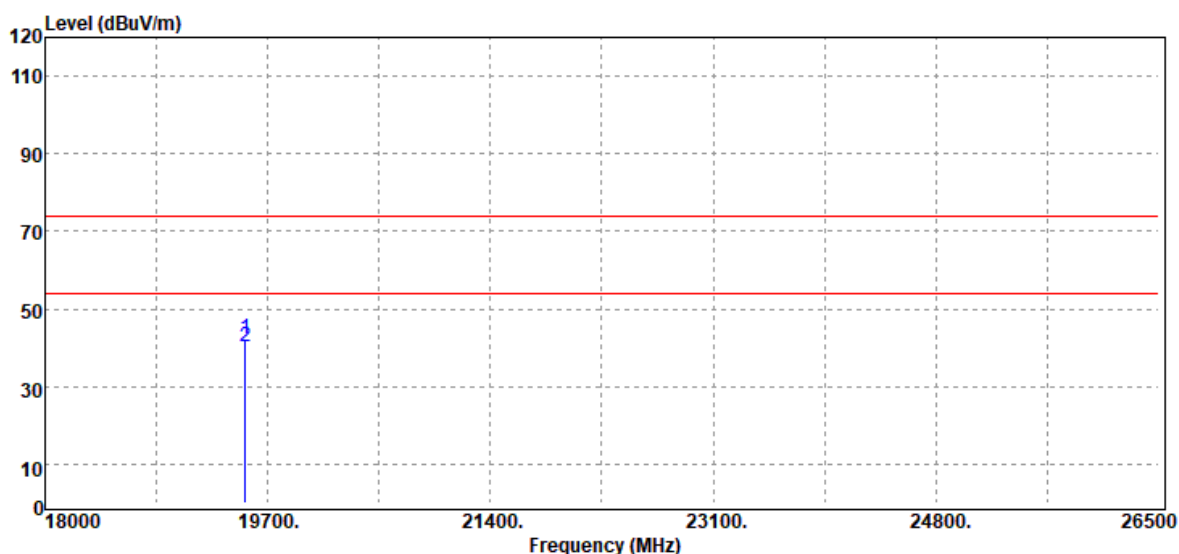
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
19528.00	Peak	29.36	12.96	42.32	74.00	-31.68
19528.00	Average	27.82	12.96	40.78	54.00	-13.22
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: T210730W08-RP1

Test Mode:	GFSK_BDR-1Mbps Mid CH	Temp/Hum	21.8(°C)/ 64%RH
Test Item	Harmonic	Test Date	December 22, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	18GHz ~ 26.5GHz

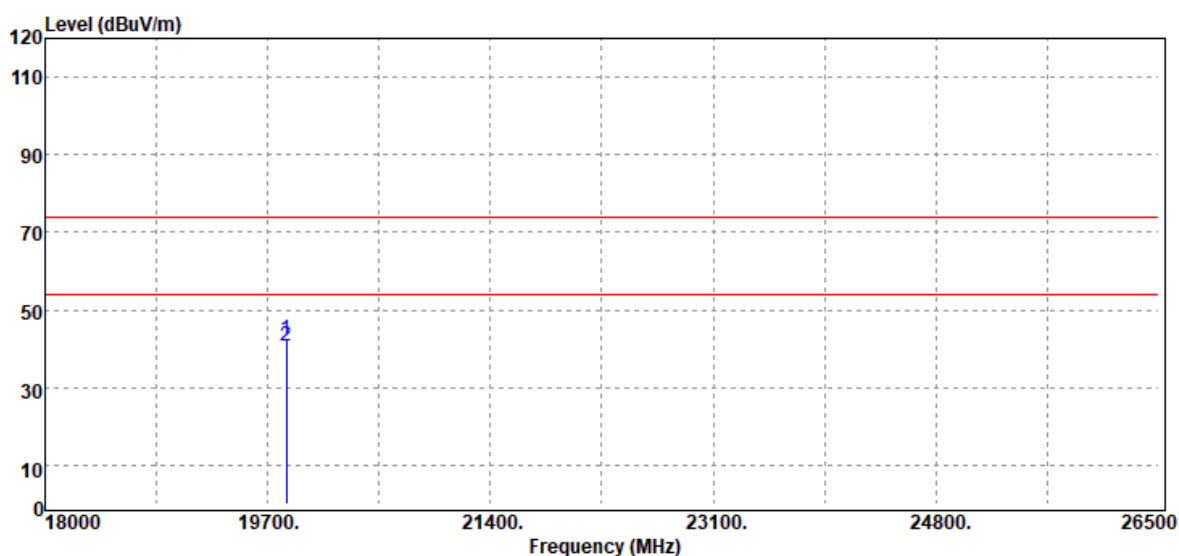


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
19528.00	Peak	29.27	12.96	42.23	74.00	-31.77
19528.00	Average	27.35	12.96	40.31	54.00	-13.69
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	21.8(°C)/ 64%RH
Test Item	Harmonic	Test Date	December 22, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	18GHz ~ 26.5GHz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
19840.00	Peak	29.00	13.37	42.37	74.00	-31.63
19840.00	Average	27.15	13.37	40.52	54.00	-13.48
N/A						

Remark:

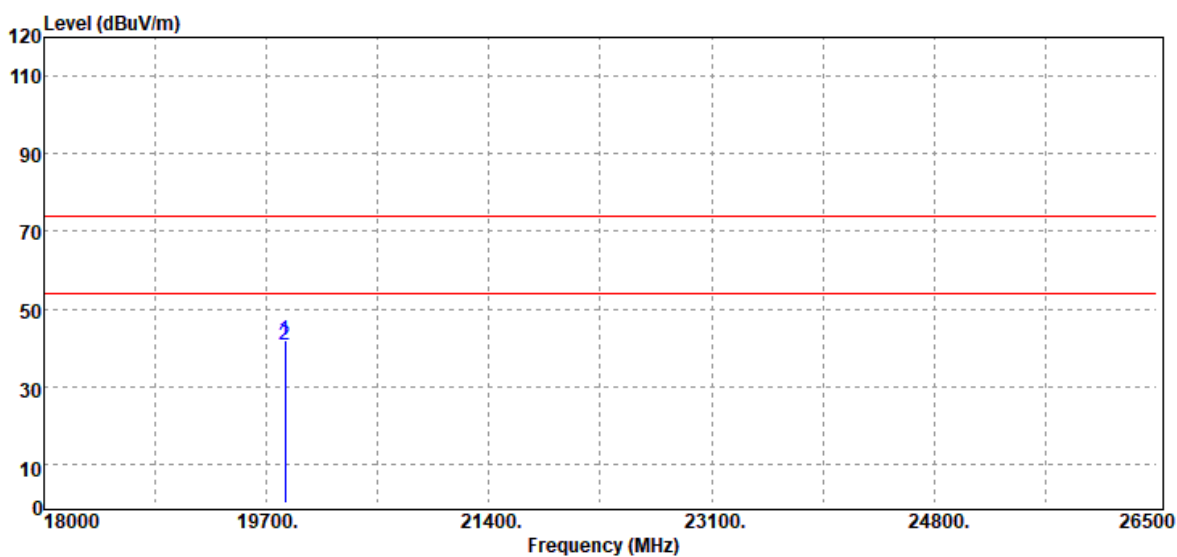
- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

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Rev.: 00

Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	21.8(°C)/ 64%RH
Test Item	Harmonic	Test Date	December 22, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	18GHz ~ 26.5GHz



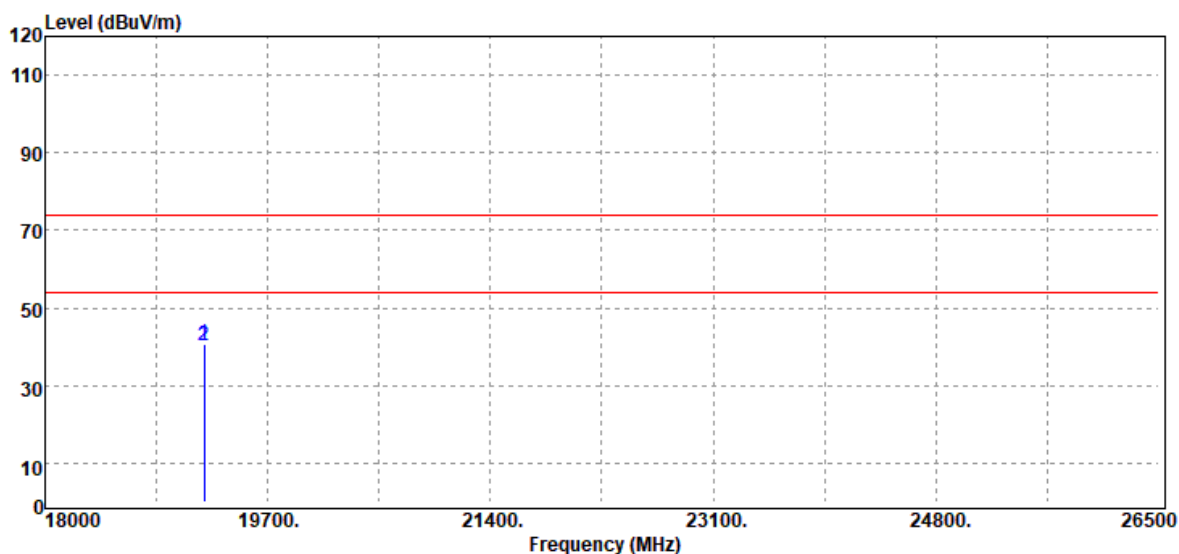
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
19840.00	Peak	28.72	13.37	42.09	74.00	-31.91
19840.00	Average	27.28	13.37	40.65	54.00	-13.35
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: T210730W08-RP1

Test Mode	8DPSK_EDR-3Mbps Low CH	Temp/Hum	21.8(°C)/ 64%RH
Test Item	Harmonic	Test Date	December 22, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	18GHz ~ 26.5GHz

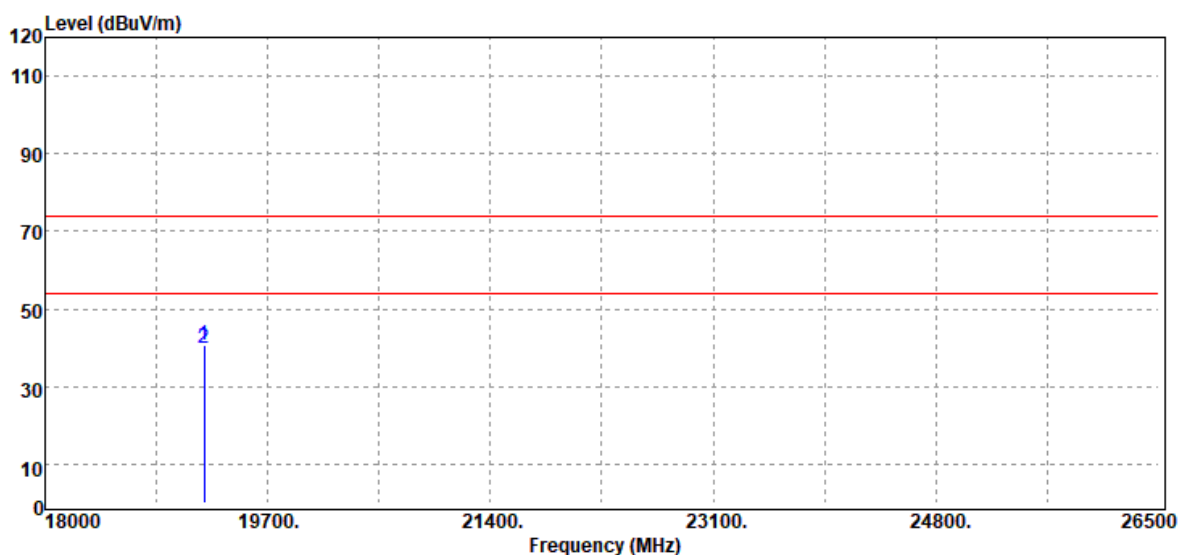


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
19216.00	Peak	28.96	11.75	40.71	74.00	-33.29
19216.00	Average	28.71	11.75	40.46	54.00	-13.54
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	8DPSK_EDR-3Mbps Low CH	Temp/Hum	21.8(°C)/ 64%RH
Test Item	Harmonic	Test Date	December 22, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	18GHz ~ 26.5GHz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
19216.00	Peak	28.74	11.75	40.49	74.00	-33.51
19216.00	Average	27.98	11.75	39.73	54.00	-14.27
N/A						

Remark:

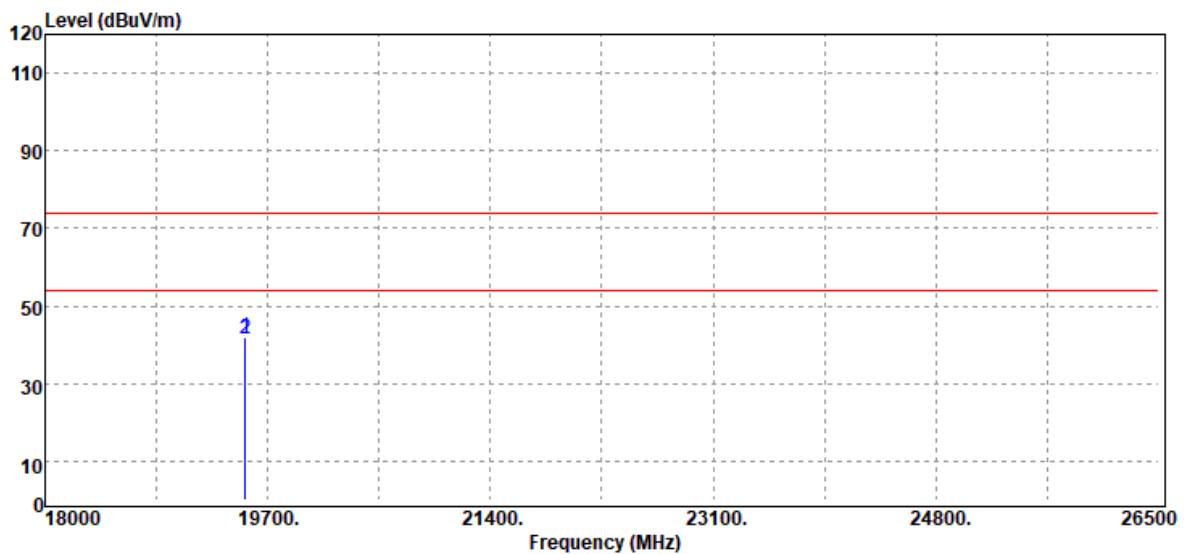
- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

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Rev.: 00

Test Mode	8DPSK_EDR-3Mbps Mid CH	Temp/Hum	21.8(°C)/ 64%RH
Test Item	Harmonic	Test Date	December 22, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	18GHz ~ 26.5GHz

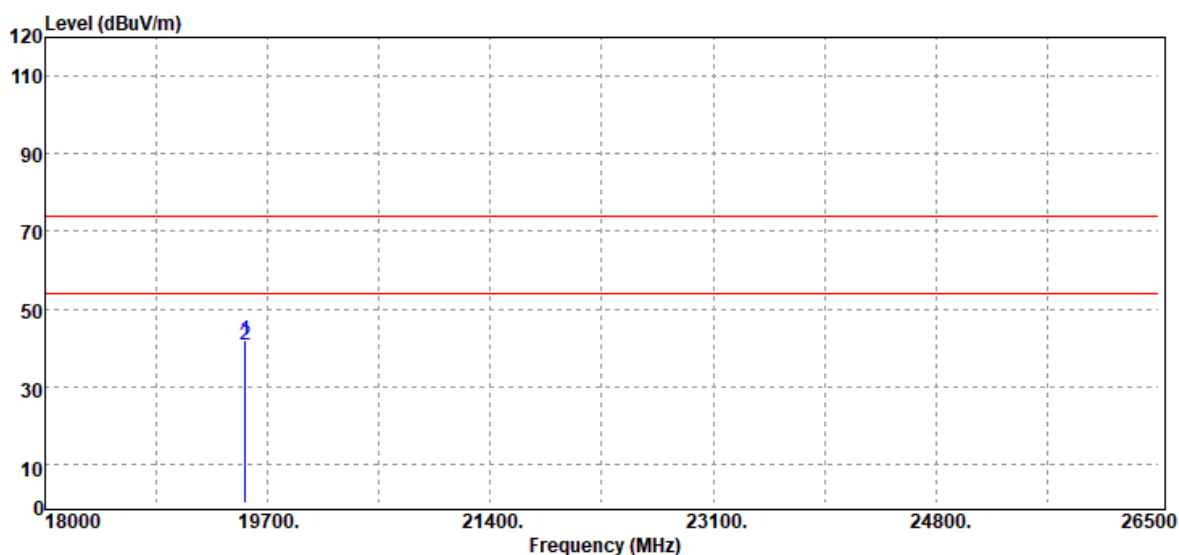


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
19528.00	Peak	29.03	12.96	41.99	74.00	-32.01
19528.00	Average	28.62	12.96	41.58	54.00	-12.42
N/A						

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	8DPSK_EDR-3Mbps Mid CH	Temp/Hum	21.8(°C)/ 64%RH
Test Item	Harmonic	Test Date	December 22, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	18GHz ~ 26.5GHz

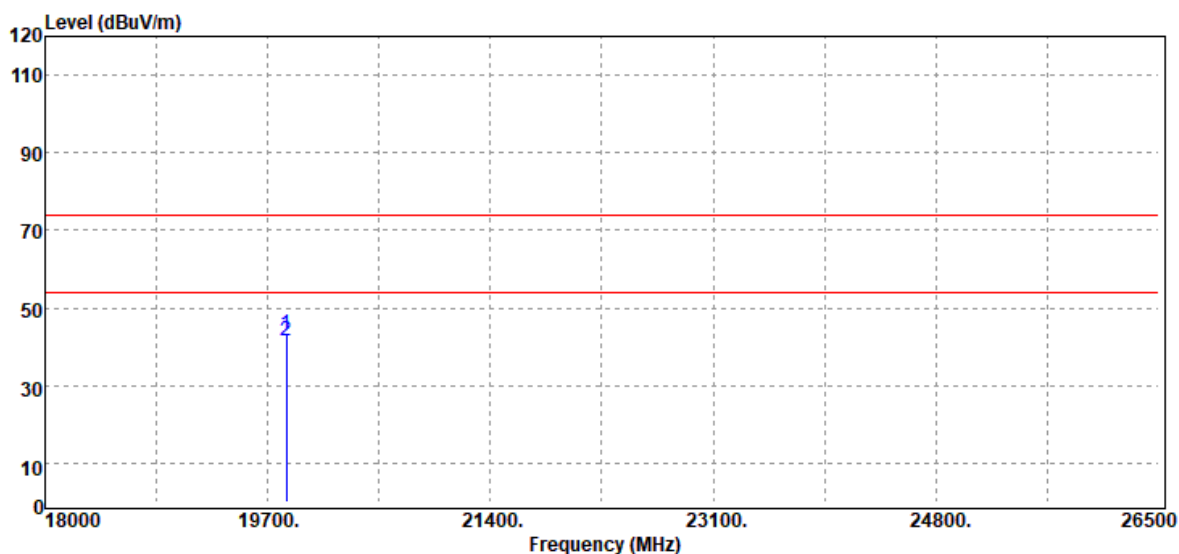


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
19528.00	Peak	28.94	12.96	41.90	74.00	-32.10
19528.00	Average	27.59	12.96	40.55	54.00	-13.45
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	8DPSK_EDR-3Mbps High CH	Temp/Hum	21.8(°C)/ 64%RH
Test Item	Harmonic	Test Date	December 22, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	18GHz ~ 26.5GHz

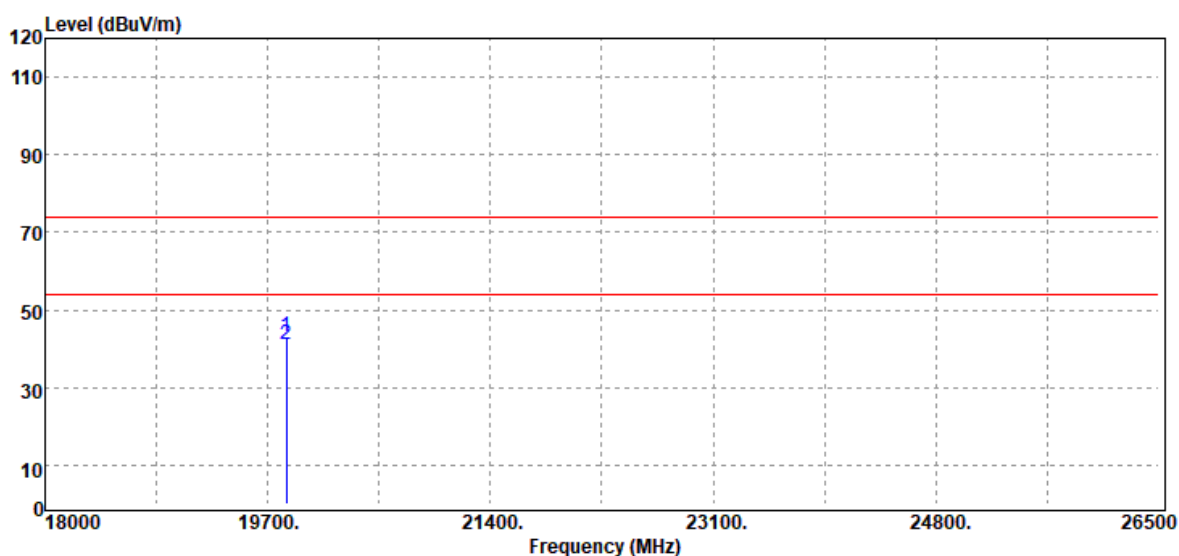


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
19840.00	Peak	29.73	13.37	43.10	74.00	-30.90
19840.00	Average	28.21	13.37	41.58	54.00	-12.42
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	8DPSK_EDR-3Mbps High CH	Temp/Hum	21.8(°C)/ 64%RH
Test Item	Harmonic	Test Date	December 22, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average	Frequency	18GHz ~ 26.5GHz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
19840.00	Peak	29.61	13.37	42.98	74.00	-31.02
19840.00	Average	27.81	13.37	41.18	54.00	-12.82
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

- End of Test Report -