TEST REPORT

Test item description:	Digital Muisc Player
FCC ID:	2BXBF-PIPLITE
Trademark(s):	Tunease
Model/Type reference:	PiP Lite, PiP Core, PiP Plus, PiP Pro, PiP Max
Applicant's name:	TING YI DIGITAL TRADING LIMITED
Address:	F10, UNIT 17, /F 7 TRANS ASIA CTR NO.18 KIN HONG ST KWAI CHUNG HONG KONG
Manufacturer:	TING YI DIGITAL TRADING LIMITED
Address:	F10, UNIT 17, /F 7 TRANS ASIA CTR NO.18 KIN HONG ST KWAI CHUNG HONG KONG (Made in China)
Prepared By:	Shenzhen CTB Testing Technology Co., Ltd.
Address:	1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	May. 07, 2026
Sample tested Date:	May. 07, 2026 to Jun. 25, 2026
Issue Date:	Jun. 25, 2026
Report No.:	CTB26050708501RF01
Test Standards	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10:2020
Test Results	PASS
Remark:	This is Bluetooth radio test report.

Compiled by:	Reviewed by:	Approved by:
Kai Chen	Martin Feng	Bin Mei / Director

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. The tested sample(s) and the sample information are provided by the applicant. The authenticity, accuracy, and completeness of the provided information are the sole responsibility of the applicant. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The result decision rules of our laboratory are based solely on the direct comparison between the actual measured values of test results and the standard limits, without considering the measurement uncertainty."★" indicates the testing items were fulfilled by subcontracted lab. "※" indicates the items are not in CNAS accreditation scope.

TABLE OF CONTENT

(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB26050708501RF01	Jun. 25, 2026	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

Test Item	Test Requirement	Test method	Result
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2020	PASS
Radiated Spurious emissions	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2020	PASS
Band edge and RF Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)/15.205(a)	ANSI C63.10-2020	PASS
Conducted Peak Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(1)	ANSI C63.10-2020	PASS
20dB Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2020	PASS
Carrier Frequencies Separation	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2020	PASS
Hopping Channel Number	47 CFR Part 15 Subpart C Section 15.247 (b)	ANSI C63.10-2020	PASS
Dwell Time	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2020	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15 Subpart C Section 15.247(a)&TCB Exclusion List (7 July 2002)	ANSI C63.10-2020	PASS
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (b)	/	PASS
RF Exposure Evaluation	47 CFR Part 15 Subpart C Section 15.247 (i)/1.1310/2.1093	KDB447498D01v06	PASS

Remark:
Test according to ANSI C63.10-2020.

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Item	Uncertainty
Occupancy bandwidth	54.3kHz
Conducted output power above 1G	0.9dB
Conducted output power below 1G	0.9dB
Power Spectral Density , Conduction	0.9dB
Conduction spurious emissions	2.0dB
Out of band emission	2.0dB
3m camber Radiated spurious emission(9kHz-30MHz)	4.8dB
3m camber Radiated spurious emission(30MHz-1GHz)	4.6dB
3m chamber Radiated spurious emission(1GHz-18GHz)	5.1dB
3m chamber Radiated spurious emission(18GHz-40GHz)	3.4dB
Humidity uncertainty	5.5%
Temperature uncertainty	0.63℃
Frequency	1×10-7
Conducted Emission(150kHz-30MHz)	3.2 dB
Radiated Emission(30MHz ~ 1000MHz)	4.8 dB
Radiated Emission(1GHz ~6GHz)	4.9 dB

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model/Type reference:	PiP Lite, PiP Core, PiP Plus, PiP Pro, PiP Max
Model Description:	All the model are the same circuit and RF module, The only difference lies in memory: PiP Core (32G), PiP Plus (64G), PiP Pro (128G), and PiP Max (256G). Test sample model: PiP Lite
Bluetooth Version:	Bluetooth 5.0
Hardware Version:	V1.1
Software Version:	V1.0
Operation Frequency:	Bluetooth: 2402-2480MHz
Max. RF output power:	Bluetooth: -0.3dBm
Type of Modulation:	Bluetooth: GFSK, π/4 DQPSK, 8DPSK
Antenna installation:	Bluetooth: FPC antenna
Antenna Gain:	Bluetooth: 2.35dBi
Ratings:	Input: 5V⎓1A DC 3.7V by battery

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1.	Adapter	JIYIN	JY-05100C	/	AE

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	79	/

4.5 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Test mode	Low channel	Middle channel	High channel
Transmitting (GFSK, π/4 DQPSK, 8DPSK)	2402MHz	2441MHz	2480MHz
Receiving (GFSK, π/4 DQPSK, 8DPSK)	2402MHz	2441MHz	2480MHz

4.6 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	3.7V
Normal Temperature(℃)	23
Low Temperature(℃)	0
High Temperature(℃)	40

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at 1&2F., Building A, No. 26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: CN1276

5.2 Test Instrument Used

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated Date	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2026/5/14	2027/5/13
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2026/5/14	2027/5/13
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2026/5/14	2027/5/13
4	Communication test set	R&S	CMW500	108058	V3.5.80	2026/5/14	2027/5/13
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2026/5/14	2027/5/13
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2026/5/14	2027/5/13
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2026/5/14	2027/5/13
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 （E1962B ）	2026/5/14	2027/5/13
9	2.4 GHz Filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	/	2026/5/16	2027/5/15
10	5 GHz Filter	Shenxiang	MSF5150-5850 MS-1155	20181015001	/	2026/5/16	2027/5/15
11	Filter	Xingbo	XBLBQ-DZA120	190821-1-1	/	2026/5/16	2027/5/15
12	BT&WI-FI Automatic test software	Micowave	MTS8310	Ver. 2.0.0.0	/	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2025/10/20	2026/10/19
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2025/7/13	2026/7/12
15	234G Automatic test software	Micowave	MTS8200	Ver. 2.0.0.0	/	/	/
16	966 chamber	C.R.T.	966	/	/	2024/6/23	2027/6/22
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7	2026/5/15	2027/5/14

					（104489/003）		
18	Amplifier	HP	8447E	2945A02747	/	2026/5/15	2027/5/14
19	Amplifier	Agilent	8449B	3008A01838	/	2026/5/14	2027/5/13
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2026/5/17	2027/5/16
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2026/5/15	2027/5/14
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2026/5/17	2027/5/16
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2025/6/2	2026/6/1
26	Amplifier	AEROFLEX	Aeroflex	097	/	2025/6/2	2026/6/1
27	Power Meter	KEYSIGHT	N1912AP	N/A	A.05.00	2025/6/2	2026/6/1

Continuous disturbance							
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated Date	Calibrated until
1	843 Shield Room	C/ R/ T	843	/	/	2024/6/22	2027/6/21
2	LISN	ROHDE&SCHWARZ	ESH3-Z5	831551852	/	2026/5/14	2027/5/13
3	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100428	V4.42.SP3	2026/5/15	2027/5/14
4	Coaxial cable	ZDECL	Z302S	18091904	/	2026/5/14	2027/5/13
5	ISN	Schwarzbeck	NTFM8158	183	/	2026/5/18	2027/5/17
6	Voltage sensor	Schwarzbeck	TK 9420	01189	/	2026/5/16	2027/5/15
7	EZ-EMC	Frad	EMC-con3A1.1	/	/	/	/
8	Current Probe	FCC	F-52B	199453	/	2026/5/22	2027/5/21
9	Communication test set	R&S	CMW500	108058	B.19.07 （E1962B ）	2026/5/14	2027/5/13
10	Communication test set	Agilent	E5515C	MY50102567	V3.5.80	2026/5/14	2027/5/13

Radiated emission(No.1 Chamber)							
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated until	Calibrated until
1	966 Chamber	C/ R/ T	966	/	/	2024/6/23	2027/6/22
2	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	01911	/	2026/5/15	2027/5/14
3	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2026/5/17	2027/5/16

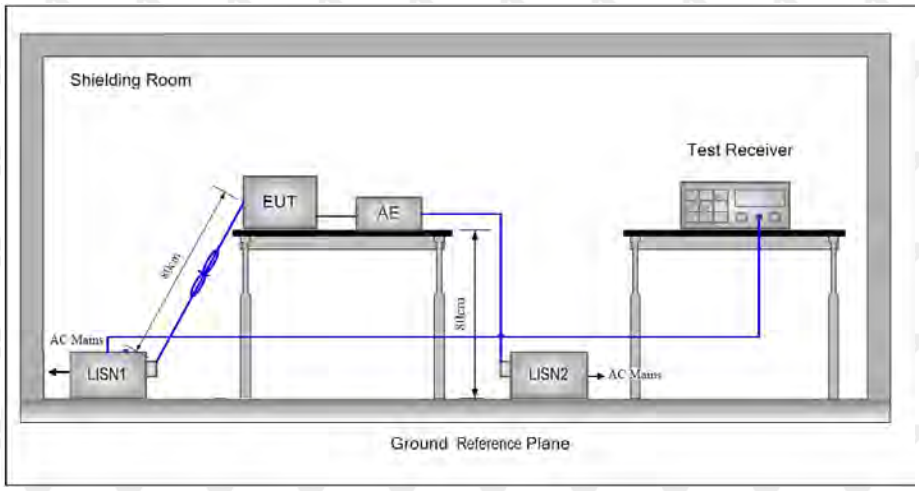
4	Amplifier	Agilent	8449B	3008A01838	/	2026/5/14	2027/5/13
5	Amplifier	HP	8447E	2945A02747	/	2026/5/15	2027/5/14
6	loop antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2026/5/17	2027/5/16
7	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESPI	100362	RF_ATTEN_7 (104489/003)	2026/5/15	2027/5/14
8	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2026/5/14	2027/5/13
9	Coaxial cable	ETS	RFC-SNS-100-NMS-80	/	/	2026/5/14	2027/5/13
10	Coaxial cable	ETS	RFC-SN-100-NMS-20	/	/	2026/5/14	2027/5/13
11	Coaxial cable	ETS	RFC-SNS-100-SMS-20	/	/	2026/5/14	2027/5/13
12	Coaxial cable	ETS	RFC-NNS-100-NMS-300	/	/	2026/5/14	2027/5/13
13	EMI test software	Frad	EZ-EMC	Ver/ FA-03A2 RE	/	/	/
14	Communication test set	R&S	CMW500	108058	B.19.07 (E1962B)	2026/5/14	2027/5/13
15	Communication test set	Agilent	E5515C	MY50102567	V3.5.80	2026/5/14	2027/5/13

Radiated emission(No.2 Chamber)

No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated Date	Calibrated until
1	966 Chamber	C/ R/ T	966	/	/	2024/6/8	2027/6/7
2	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	01911	/	2026/5/15	2027/5/14
3	Broadband Antenna	Schwarzbeck	VULB 9168	1471	/	2025/9/19	2026/9/18
4	Amplifier	Agilent	8449B	3008A01838	/	2026/5/14	2027/5/13
5	Preamplifier	Schwarzbeck	BBV 9743 B	00500	/	2026/5/15	2027/5/14
6	EMI TEST RECEIVER	R&S	ESCI7	100861	/	2025/9/19	2026/9/18
7	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2026/5/14	2027/5/13
8	EMI test software	Farad	EZ-EMC	/	Ver. FARAD-3A1+	/	/
9	Coaxial cable	Rosenberg	8m	/	/	2026/5/16	2027/5/15
10	Coaxial cable	Times	2m	/	/	2026/5/16	2027/5/15
11	Coaxial cable	Times	2m	/	/	2026/5/16	2027/5/15
12	Coaxial cable	Times	1m	/	/	2026/5/16	2027/5/15
13	loop antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2026/5/17	2027/5/16
14	Communication test set	R&S	CMW500	108058	B.19.07 (E1962B)	2026/5/14	2027/5/13
15	Communication test set	Agilent	E5515C	MY50102567	V3.5.80	2026/5/14	2027/5/13

6. AC POWER LINE CONDUCTED EMISSION

6.1 Block Diagram Of Test Setup



6.2 Limit

Table 4 – AC power-line conducted emissions limits

Frequency (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56[Note 1]	56 to 46[Note 1]
0.5 – 5	56	46
5 – 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

* Decreasing linearly with the logarithm of the frequency

6.3 Test procedure

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0,4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane.

This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2020 on conducted measurement.

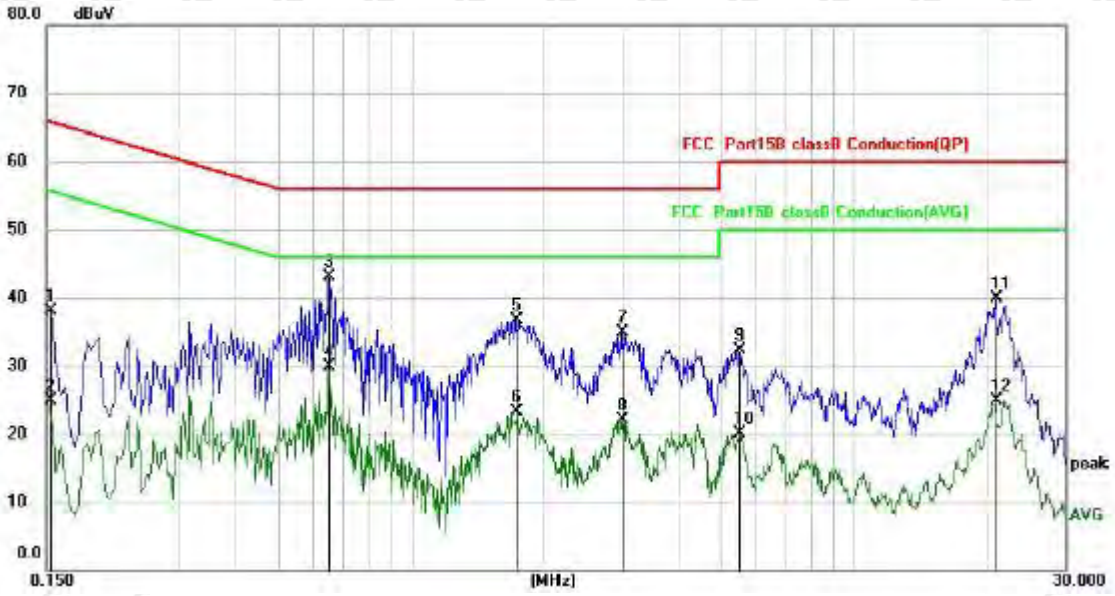
6) All modes were tested at AC 120V and 240V, only the worst result of AC 120V 60Hz was reported.

7) If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.

6.4 Test Result

Model: PiP Lite

L: Worst case-8DPSK(low channel)

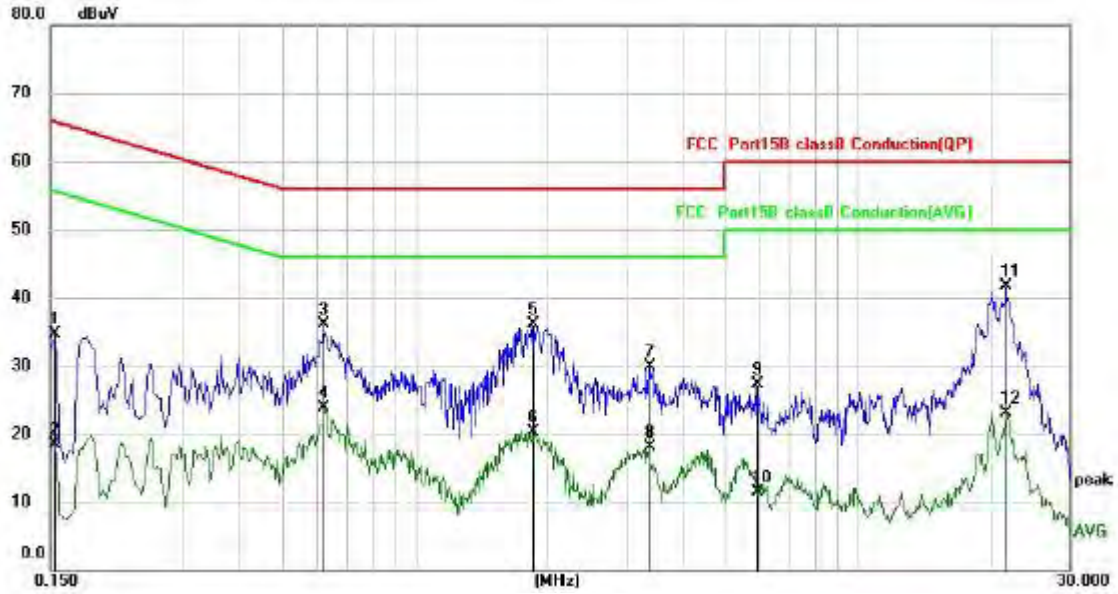


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1539	28.03	10.07	38.10	65.79	-27.69	QP
2		0.1539	14.82	10.07	24.89	55.79	-30.90	AVG
3	*	0.6540	32.96	10.11	43.07	56.00	-12.93	QP
4		0.6540	19.81	10.11	29.92	46.00	-16.08	AVG
5		1.7260	26.52	10.16	36.68	56.00	-19.32	QP
6		1.7260	13.13	10.16	23.29	46.00	-22.71	AVG
7		3.0059	24.73	10.21	34.94	56.00	-21.06	QP
8		3.0059	11.87	10.21	22.08	46.00	-23.92	AVG
9		5.4820	21.97	10.30	32.27	60.00	-27.73	QP
10		5.4820	9.81	10.30	20.11	50.00	-29.89	AVG
11		20.8819	28.89	11.00	39.89	60.00	-20.11	QP
12		20.8819	13.96	11.00	24.96	50.00	-25.04	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

N: Worst case-8DPSK(low channel)



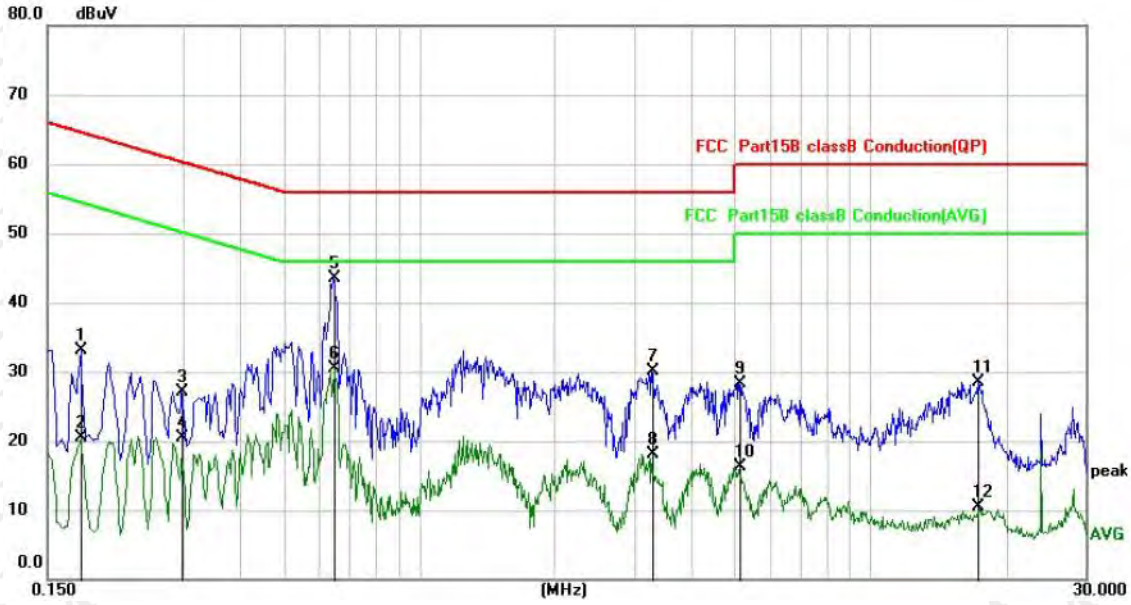
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1539	24.54	10.07	34.61	65.79	-31.18	QP
2		0.1539	8.50	10.07	18.57	55.79	-37.22	AVG
3		0.6220	25.92	10.10	36.02	56.00	-19.98	QP
4		0.6220	13.81	10.10	23.91	46.00	-22.09	AVG
5		1.8420	25.86	10.16	36.02	56.00	-19.98	QP
6		1.8420	10.24	10.16	20.40	46.00	-25.60	AVG
7		3.3700	19.62	10.22	29.84	56.00	-26.16	QP
8		3.3700	7.98	10.22	18.20	46.00	-27.80	AVG
9		5.9019	17.07	10.32	27.39	60.00	-32.61	QP
10		5.9019	1.14	10.32	11.46	50.00	-38.54	AVG
11	*	21.5860	30.62	11.04	41.66	60.00	-18.34	QP
12		21.5860	12.13	11.04	23.17	50.00	-26.83	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

Model: PiP Core

L: Worst case-8DPSK (low channel)

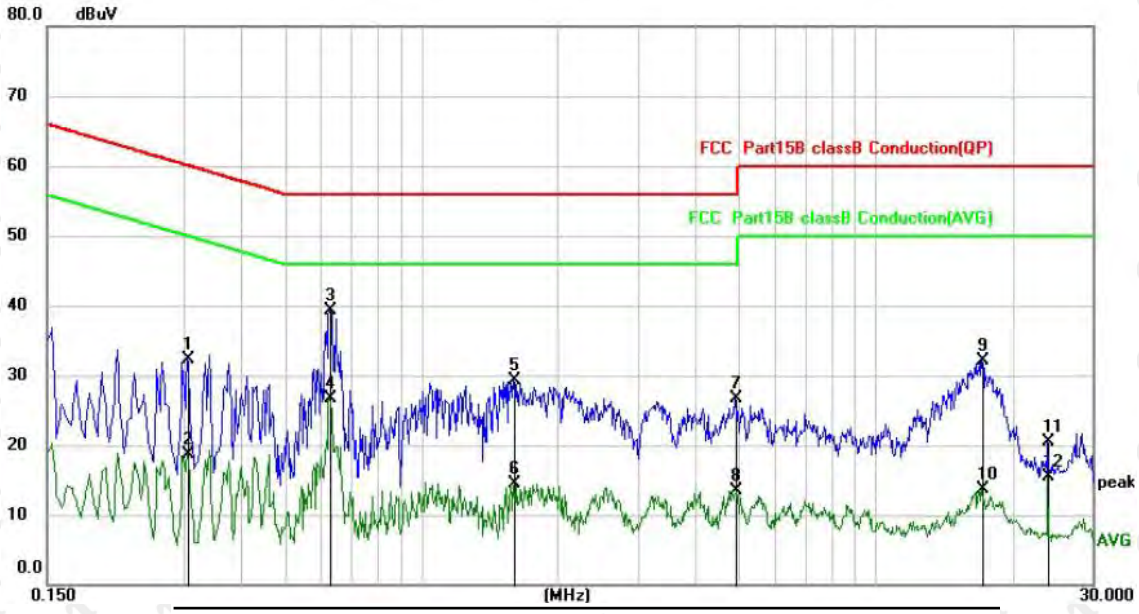


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1780	23.04	10.08	33.12	64.58	-31.46	QP
2		0.1780	10.38	10.08	20.46	54.58	-34.12	AVG
3		0.2980	17.01	10.08	27.09	60.30	-33.21	QP
4		0.2980	10.49	10.08	20.57	50.30	-29.73	AVG
5	*	0.6460	33.41	10.10	43.51	56.00	-12.49	QP
6		0.6460	20.46	10.10	30.56	46.00	-15.44	AVG
7		3.2860	19.81	10.22	30.03	56.00	-25.97	QP
8		3.2860	7.90	10.22	18.12	46.00	-27.88	AVG
9		5.1260	17.92	10.29	28.21	60.00	-31.79	QP
10		5.1260	6.10	10.29	16.39	50.00	-33.61	AVG
11		17.3260	17.64	10.84	28.48	60.00	-31.52	QP
12		17.3260	-0.43	10.84	10.41	50.00	-39.59	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

N:



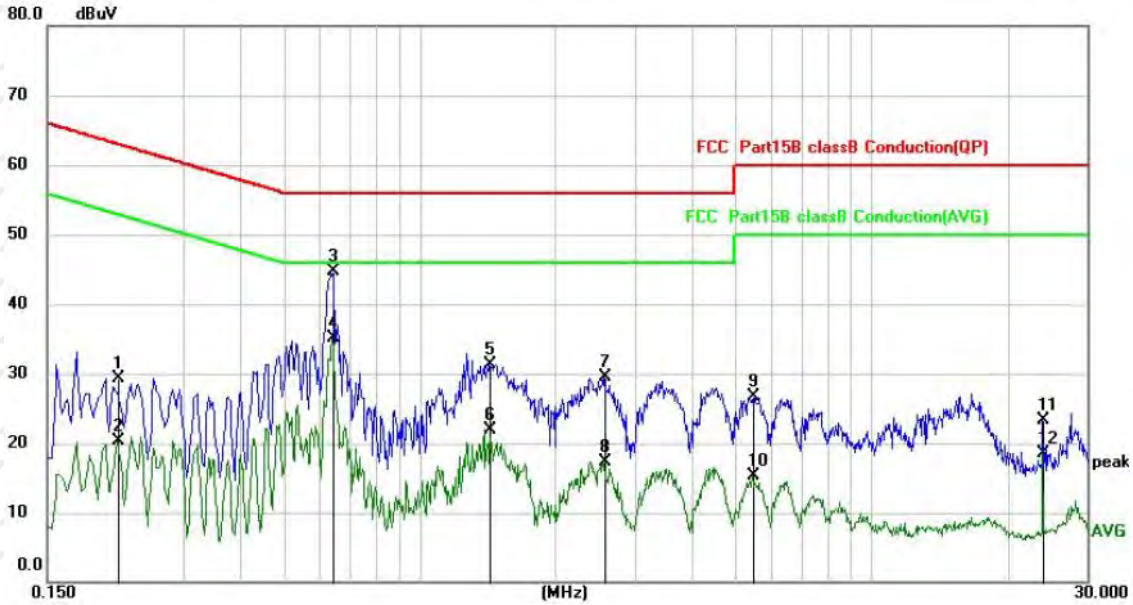
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.3060	22.24	10.08	32.32	60.08	-27.76	QP
2		0.3060	8.57	10.08	18.65	50.08	-31.43	AVG
3	*	0.6300	29.17	10.10	39.27	56.00	-16.73	QP
4		0.6300	16.52	10.10	26.62	46.00	-19.38	AVG
5		1.5980	19.24	10.15	29.39	56.00	-26.61	QP
6		1.5980	4.34	10.15	14.49	46.00	-31.51	AVG
7		4.9020	16.41	10.28	26.69	56.00	-29.31	QP
8		4.9020	3.31	10.28	13.59	46.00	-32.41	AVG
9		17.1500	21.32	10.83	32.15	60.00	-27.85	QP
10		17.1500	2.84	10.83	13.67	50.00	-36.33	AVG
11		24.0020	9.40	11.15	20.55	60.00	-39.45	QP
12		24.0020	4.38	11.15	15.53	50.00	-34.47	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

Model: PiP Plus

L: Worst case-8DPSK (low channel)

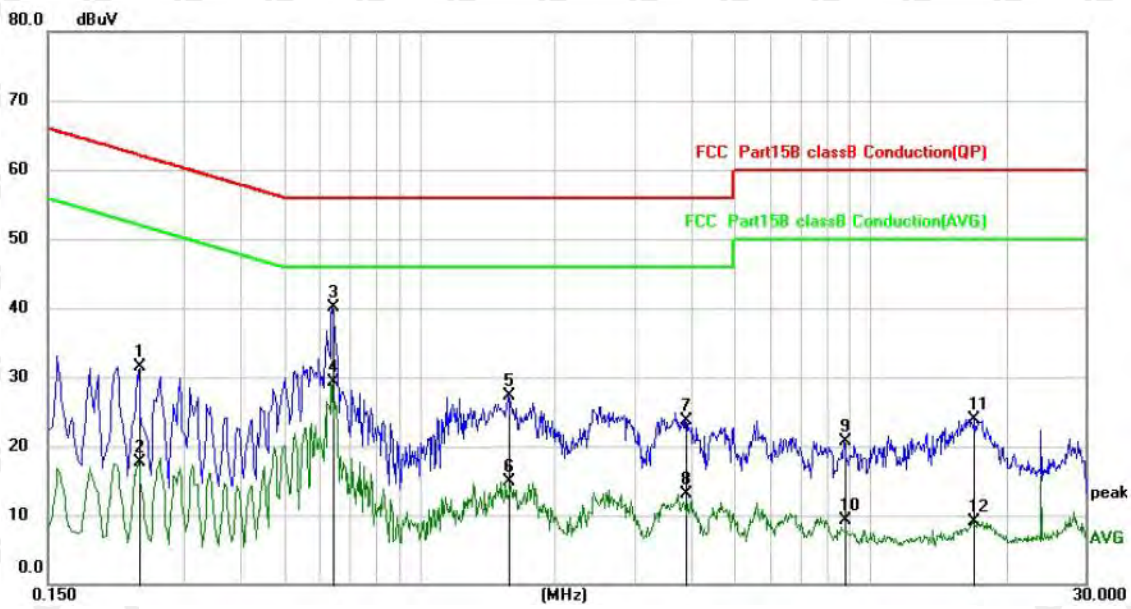


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2140	19.28	10.08	29.36	63.05	-33.69	QP
2		0.2140	10.20	10.08	20.28	53.05	-32.77	AVG
3		0.6419	34.52	10.10	44.62	56.00	-11.38	QP
4	*	0.6419	24.97	10.10	35.07	46.00	-10.93	AVG
5		1.4260	21.20	10.15	31.35	56.00	-24.65	QP
6		1.4260	11.67	10.15	21.82	46.00	-24.18	AVG
7		2.5660	19.25	10.19	29.44	56.00	-26.56	QP
8		2.5660	7.16	10.19	17.35	46.00	-28.65	AVG
9		5.4580	16.44	10.30	26.74	60.00	-33.26	QP
10		5.4580	4.98	10.30	15.28	50.00	-34.72	AVG
11		24.0020	12.11	11.15	23.26	60.00	-36.74	QP
12		24.0020	7.43	11.15	18.58	50.00	-31.42	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

N:



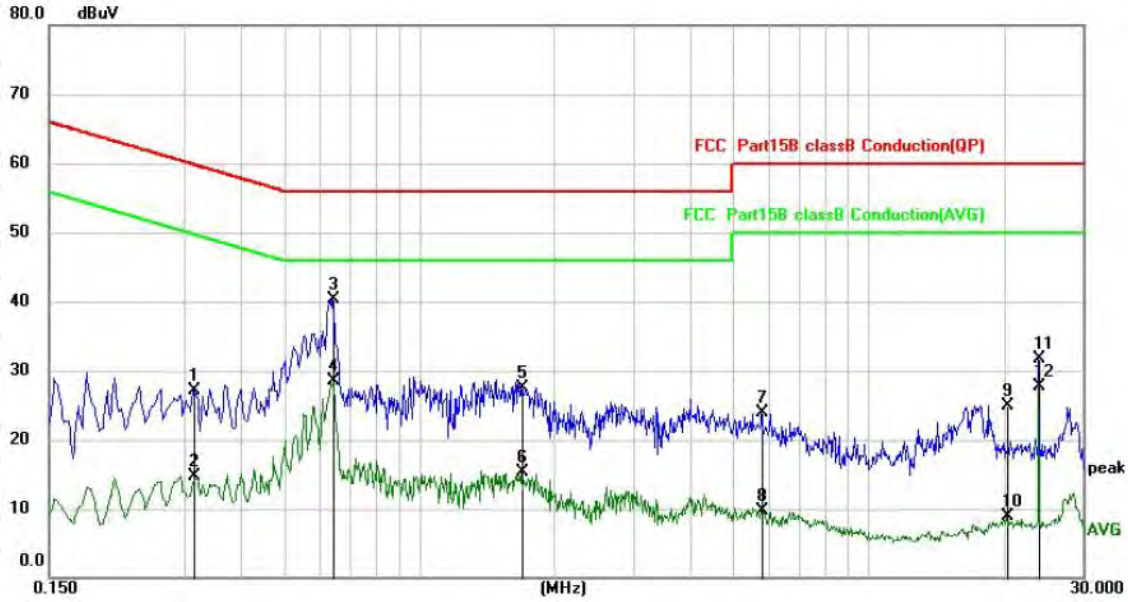
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2380	21.33	10.08	31.41	62.17	-30.76	QP
2		0.2380	7.61	10.08	17.69	52.17	-34.48	AVG
3	*	0.6419	29.93	10.10	40.03	56.00	-15.97	QP
4		0.6419	19.16	10.10	29.26	46.00	-16.74	AVG
5		1.5700	17.10	10.15	27.25	56.00	-28.75	QP
6		1.5700	4.73	10.15	14.88	46.00	-31.12	AVG
7		3.8980	13.56	10.24	23.80	56.00	-32.20	QP
8		3.8980	2.96	10.24	13.20	46.00	-32.80	AVG
9		8.7620	10.24	10.42	20.66	60.00	-39.34	QP
10		8.7620	-1.10	10.42	9.32	50.00	-40.68	AVG
11		16.8860	13.07	10.82	23.89	60.00	-36.11	QP
12		16.8860	-1.66	10.82	9.16	50.00	-40.84	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

Model: PiP Pro

L: Worst case-8DPSK (low channel)

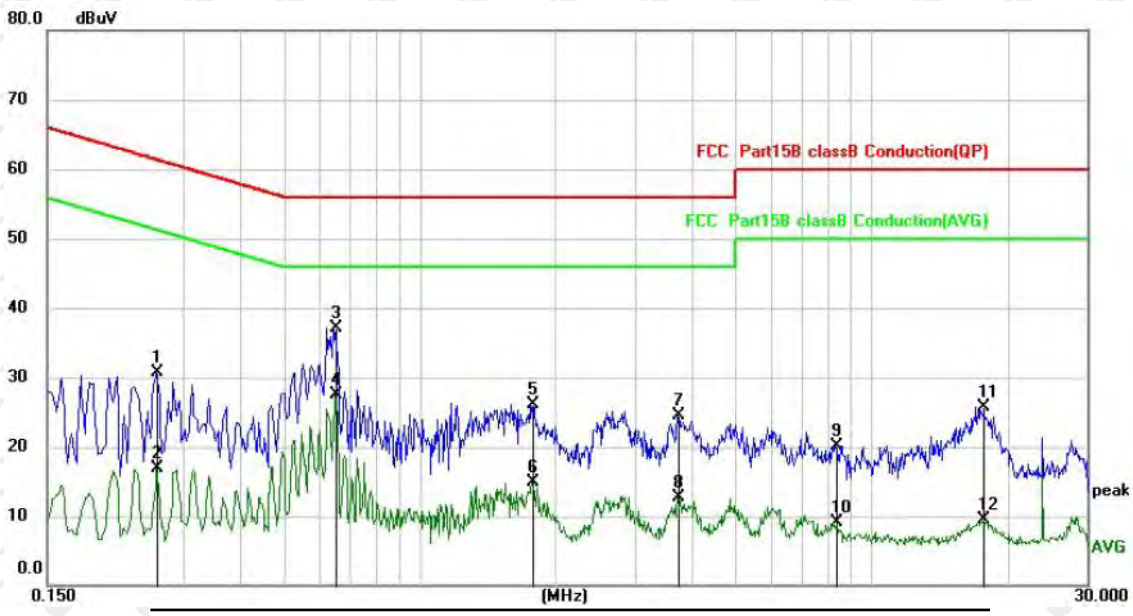


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.3140	17.08	10.08	27.16	59.86	-32.70	QP
2		0.3140	4.59	10.08	14.67	49.86	-35.19	AVG
3	*	0.6419	30.18	10.10	40.28	56.00	-15.72	QP
4		0.6419	18.36	10.10	28.46	46.00	-17.54	AVG
5		1.6900	17.37	10.16	27.53	56.00	-28.47	QP
6		1.6900	5.11	10.16	15.27	46.00	-30.73	AVG
7		5.7940	13.51	10.32	23.83	60.00	-36.17	QP
8		5.7940	-0.52	10.32	9.80	50.00	-40.20	AVG
9		20.3700	14.02	10.98	25.00	60.00	-35.00	QP
10		20.3700	-2.04	10.98	8.94	50.00	-41.06	AVG
11		24.0020	20.47	11.15	31.62	60.00	-28.38	QP
12		24.0020	16.59	11.15	27.74	50.00	-22.26	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

N:



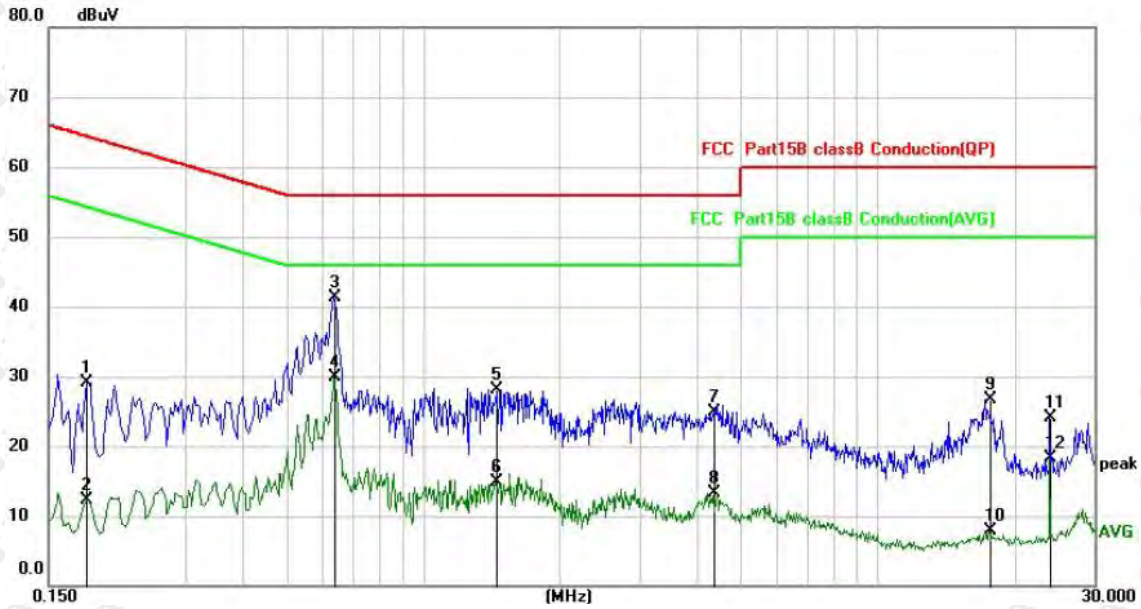
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2620	20.67	10.08	30.75	61.37	-30.62	QP
2		0.2620	6.78	10.08	16.86	51.37	-34.51	AVG
3		0.6540	27.00	10.11	37.11	56.00	-18.89	QP
4	*	0.6540	17.40	10.11	27.51	46.00	-18.49	AVG
5		1.7780	15.85	10.16	26.01	56.00	-29.99	QP
6		1.7780	4.66	10.16	14.82	46.00	-31.18	AVG
7		3.7380	14.20	10.23	24.43	56.00	-31.57	QP
8		3.7380	2.49	10.23	12.72	46.00	-33.28	AVG
9		8.3460	9.67	10.41	20.08	60.00	-39.92	QP
10		8.3460	-1.36	10.41	9.05	50.00	-40.95	AVG
11		17.6900	14.76	10.85	25.61	60.00	-34.39	QP
12		17.6900	-1.26	10.85	9.59	50.00	-40.41	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

Model: PiP Max

L: Worst case-8DPSK (low channel)

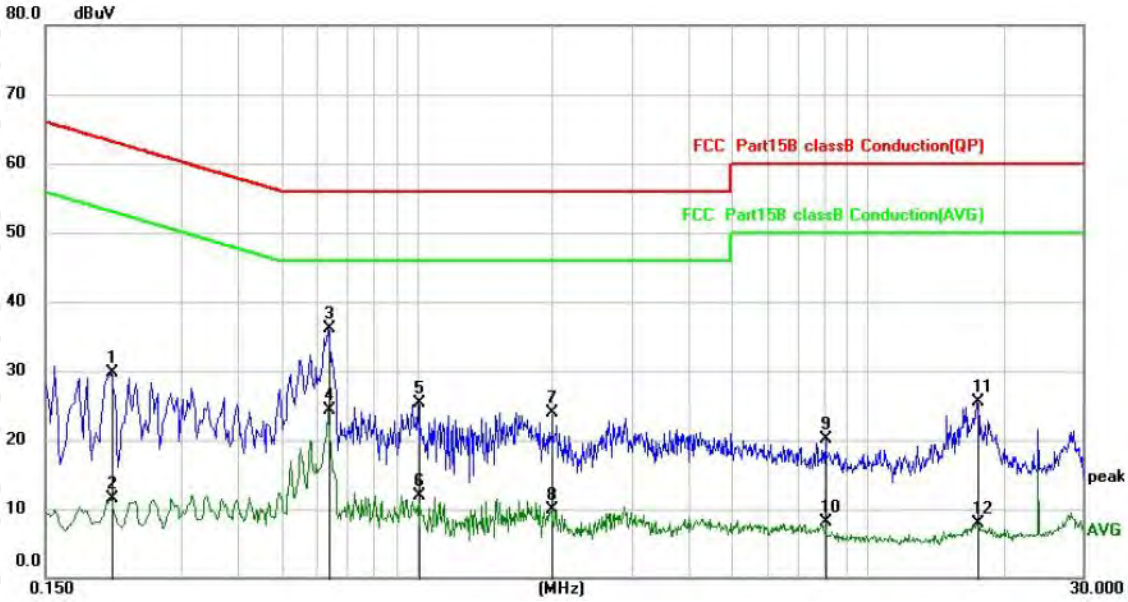


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1819	19.08	10.08	29.16	64.40	-35.24	QP
2		0.1819	2.24	10.08	12.32	54.40	-42.08	AVG
3	*	0.6380	31.16	10.10	41.26	56.00	-14.74	QP
4		0.6380	19.73	10.10	29.83	46.00	-16.17	AVG
5		1.4420	17.94	10.15	28.09	56.00	-27.91	QP
6		1.4420	4.66	10.15	14.81	46.00	-31.19	AVG
7		4.3780	14.65	10.26	24.91	56.00	-31.09	QP
8		4.3780	3.13	10.26	13.39	46.00	-32.61	AVG
9		17.6140	15.82	10.85	26.67	60.00	-33.33	QP
10		17.6140	-3.03	10.85	7.82	50.00	-42.18	AVG
11		24.0020	13.05	11.15	24.20	60.00	-35.80	QP
12		24.0020	7.22	11.15	18.37	50.00	-31.63	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

N:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2100	19.70	10.08	29.78	63.21	-33.43	QP
2		0.2100	1.51	10.08	11.59	53.21	-41.62	AVG
3	*	0.6380	26.02	10.10	36.12	56.00	-19.88	QP
4		0.6380	14.27	10.10	24.37	46.00	-21.63	AVG
5		1.0060	15.21	10.13	25.34	56.00	-30.66	QP
6		1.0060	1.70	10.13	11.83	46.00	-34.17	AVG
7		1.9980	13.83	10.17	24.00	56.00	-32.00	QP
8		1.9980	-0.22	10.17	9.95	46.00	-36.05	AVG
9		8.1020	9.71	10.40	20.11	60.00	-39.89	QP
10		8.1020	-2.35	10.40	8.05	50.00	-41.95	AVG
11		17.4940	14.63	10.84	25.47	60.00	-34.53	QP
12		17.4940	-3.02	10.84	7.82	50.00	-42.18	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

7. RADIATED SPURIOUS EMISSION

7.1 Block Diagram Of Test Setup

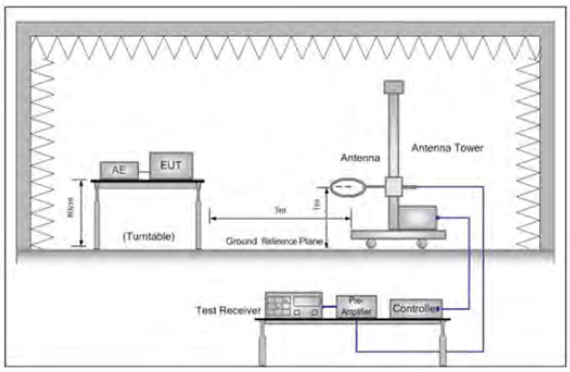


Figure 1. Below 30MHz

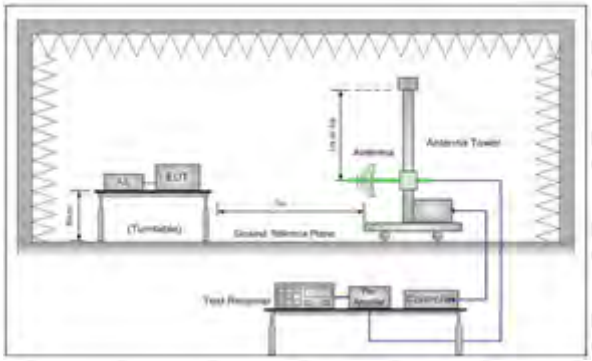


Figure 2. 30MHz to 1GHz

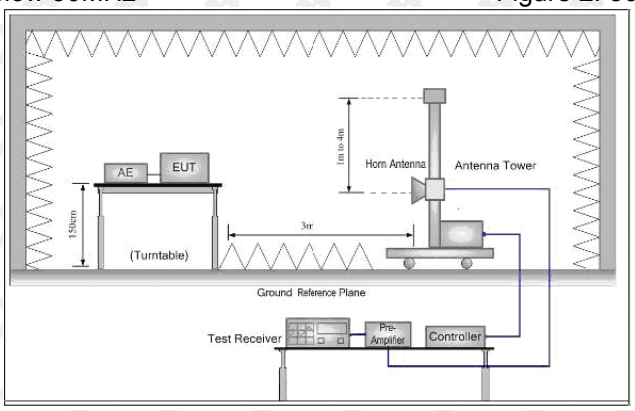


Figure 3. Above 1GHz

7.2 Limit

Spurious Emissions:

Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

7.3 Test procedure

Below 1GHz test procedure as below:

a.The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f.If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

g.Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).

h.Test the EUT in the lowest channel ,the middle channel ,the Highest channel

i.Repeat above procedures until all frequencies measured was complete.

j. Full battery is usedduring test.

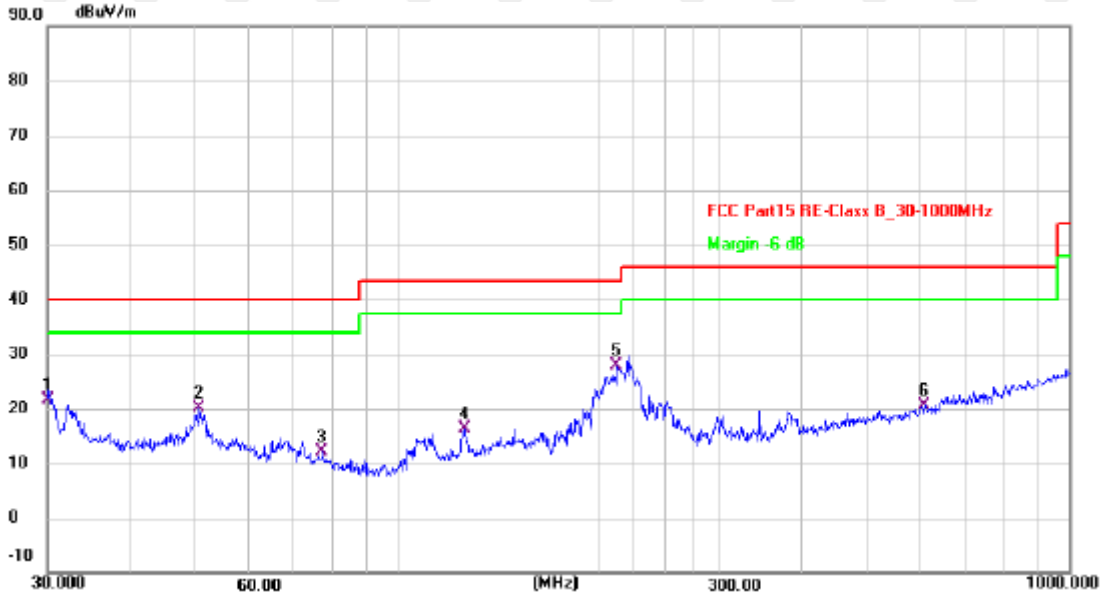
Receiver set:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

7.4 Test Result

Model: PiP Lite

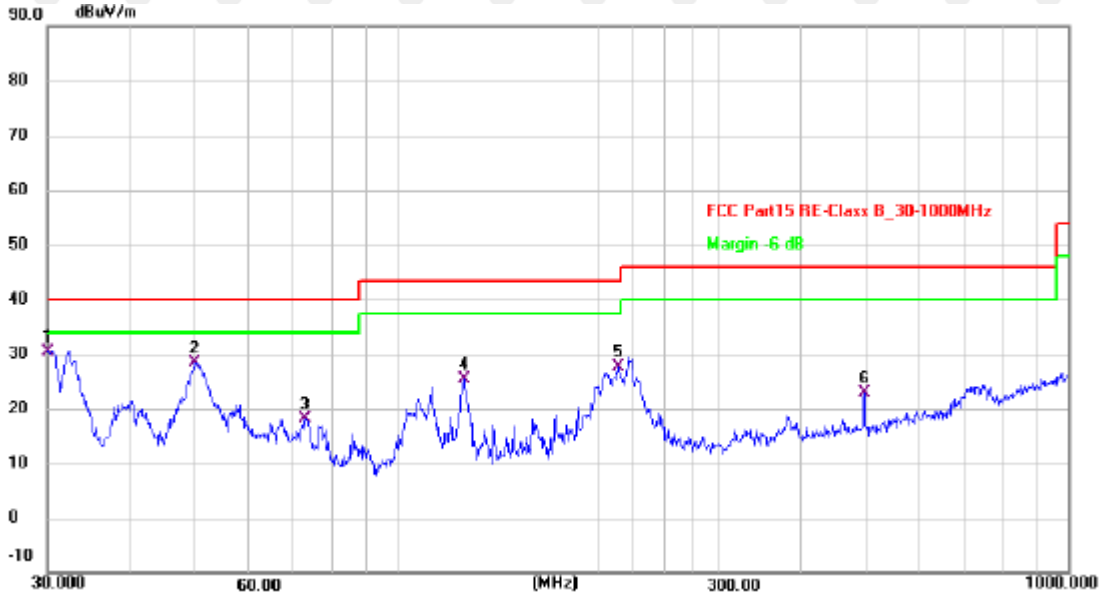
Below 1GHz Test Results:
Antenna polarity: H
Worst case-8DPSK(low channel)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.1051	35.39	-13.64	21.75	40.00	-18.25	QP
2	50.5860	33.42	-13.20	20.22	40.00	-19.78	QP
3	77.0502	28.37	-16.36	12.01	40.00	-27.99	QP
4	125.8863	31.68	-15.41	16.27	43.50	-27.23	QP
5 *	211.5261	43.18	-15.34	27.84	43.50	-15.66	QP
6	609.9215	25.87	-5.32	20.55	46.00	-25.45	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement– Limit

Antenna polarity: V
Worst case-8DPSK(low channel)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	30.1051	43.97	-13.64	30.33	40.00	-9.67	QP
2	49.7066	41.64	-13.16	28.48	40.00	-11.52	QP
3	72.8465	33.91	-15.71	18.20	40.00	-21.80	QP
4	125.4457	40.97	-15.48	25.49	43.50	-18.01	QP
5	213.0150	42.90	-15.29	27.61	43.50	-15.89	QP
6	495.9343	30.87	-8.05	22.82	46.00	-23.18	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement– Limit

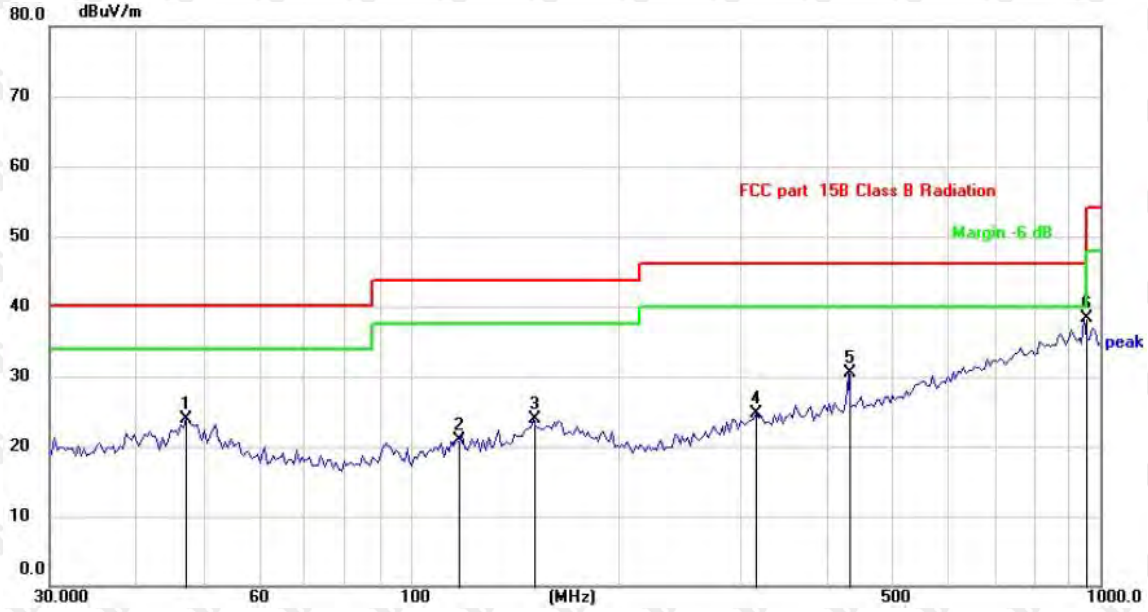
Model: PiP Core

Below 1GHz Test Results:
Antenna polarity: H
Worst case-8DPSK (low channel)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.3255	29.76	-6.29	23.47	40.00	-16.53	QP
2		58.9217	28.03	-7.17	20.86	40.00	-19.14	QP
3		160.0648	30.49	-3.43	27.06	43.50	-16.44	QP
4		303.5437	28.03	-2.46	25.57	46.00	-20.43	QP
5		431.0316	27.94	-0.33	27.61	46.00	-18.39	QP
6	*	817.3997	26.87	8.73	35.60	46.00	-10.40	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement– Limit

Antenna polarity: V



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.3255	30.29	-6.29	24.00	40.00	-16.00	QP
2		116.7446	27.14	-6.16	20.98	43.50	-22.52	QP
3		150.5378	28.25	-4.35	23.90	43.50	-19.60	QP
4		317.1445	26.90	-2.24	24.66	46.00	-21.34	QP
5		431.0316	30.82	-0.33	30.49	46.00	-15.51	QP
6	*	948.7610	28.93	9.30	38.23	46.00	-7.77	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement– Limit

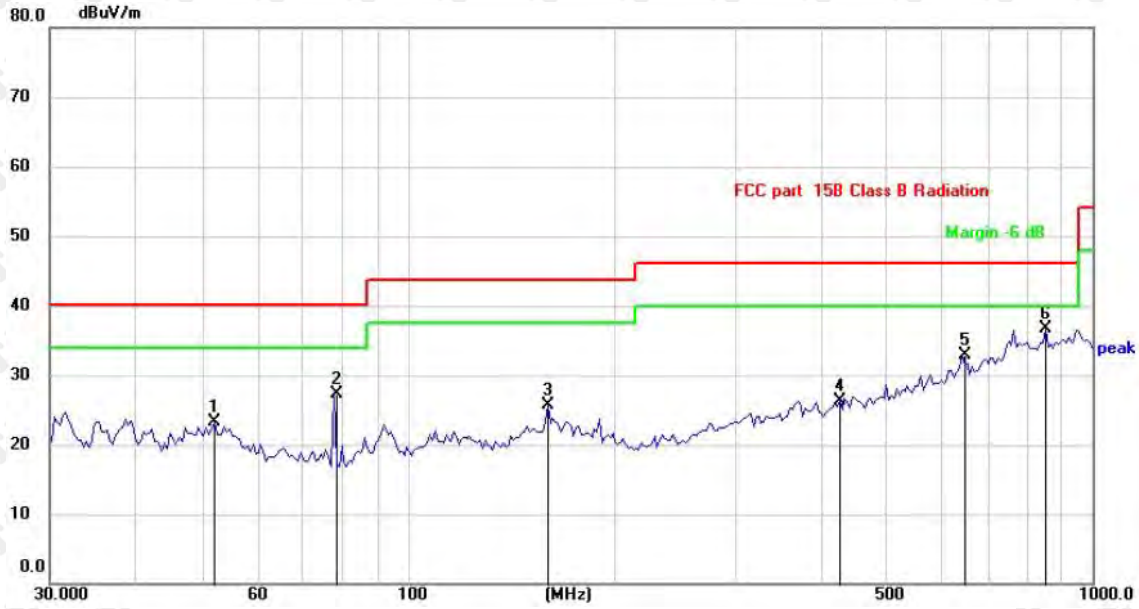
Model: PiP Plus

Below 1GHz Test Results:
Antenna polarity: H
Worst case-8DPSK (low channel)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.7422	29.20	-6.32	22.88	40.00	-17.12	QP
2		59.4405	27.62	-7.21	20.41	40.00	-19.59	QP
3		155.9101	31.57	-3.83	27.74	43.50	-15.76	QP
4		197.5462	30.59	-6.16	24.43	43.50	-19.07	QP
5		381.2487	27.66	-1.20	26.46	46.00	-19.54	QP
6	*	869.1302	28.33	9.22	37.55	46.00	-8.45	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement– Limit

Antenna polarity: V



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		52.1164	29.85	-6.62	23.23	40.00	-16.77	QP
2		78.0020	36.12	-8.73	27.39	40.00	-12.61	QP
3		160.0648	29.17	-3.43	25.74	43.50	-17.76	QP
4		427.2695	26.80	-0.40	26.40	46.00	-19.60	QP
5		645.1195	27.85	5.07	32.92	46.00	-13.08	QP
6	*	854.0247	27.59	9.07	36.66	46.00	-9.34	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement– Limit

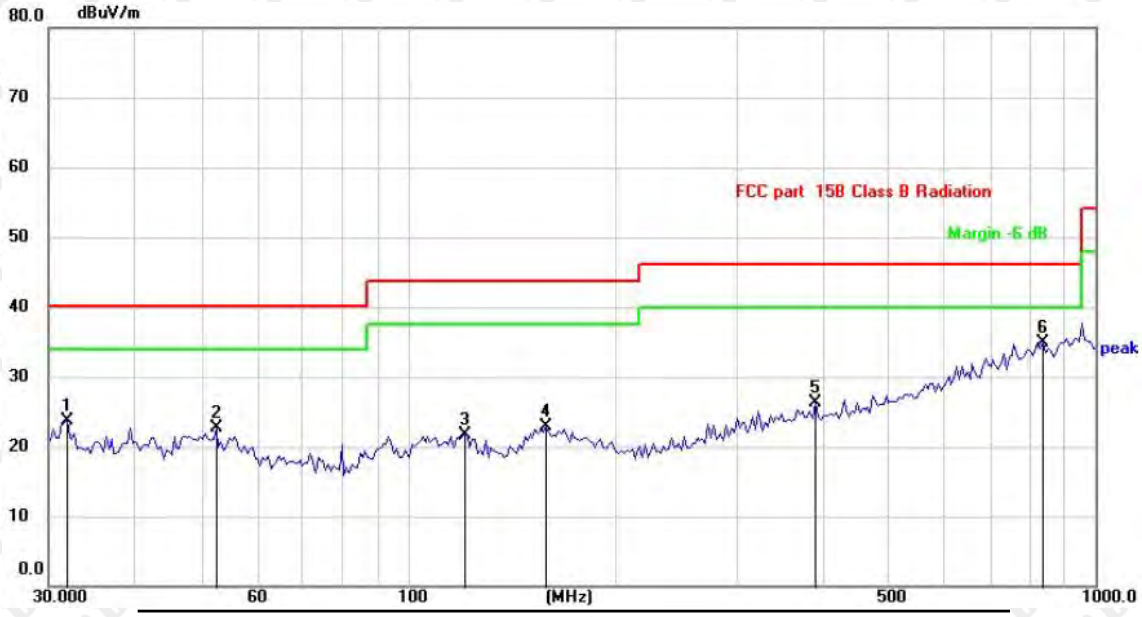
Model: PiP Pro

Below 1GHz Test Results:
Antenna polarity: H
Worst case-8DPSK (low channel)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.7422	30.89	-6.32	24.57	40.00	-15.43	QP
2		69.6005	27.98	-7.74	20.24	40.00	-19.76	QP
3		119.8556	26.52	-5.85	20.67	43.50	-22.83	QP
4		168.7093	26.93	-3.37	23.56	43.50	-19.94	QP
5		639.4888	26.54	4.93	31.47	46.00	-14.53	QP
6	*	948.7610	28.19	9.30	37.49	46.00	-8.51	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement– Limit

Antenna polarity: V

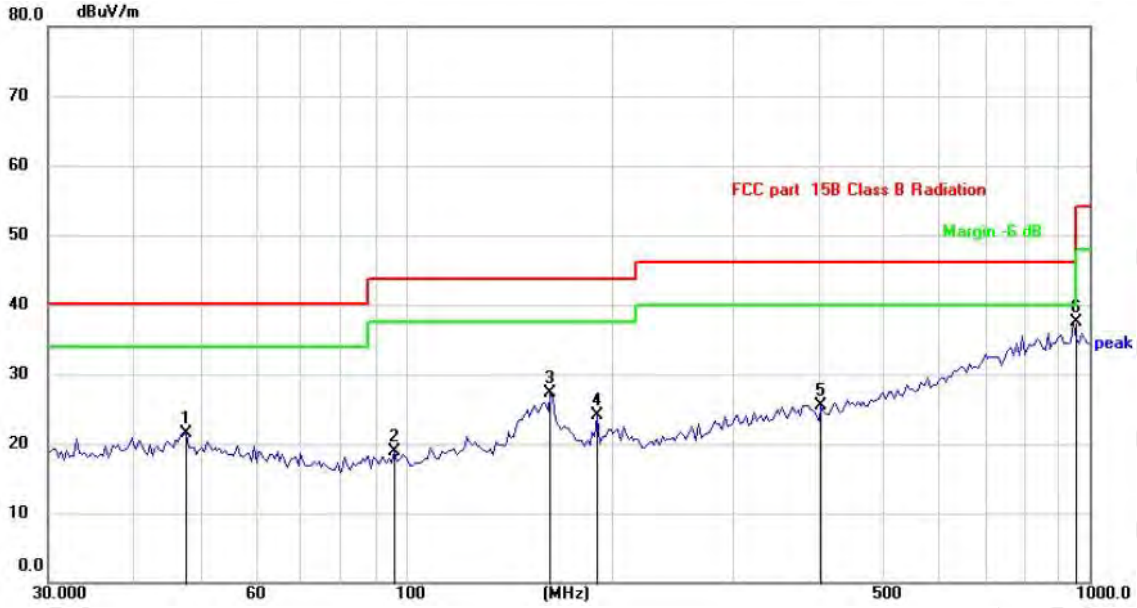


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		31.8986	30.17	-6.38	23.79	40.00	-16.21	QP
2		52.5753	29.32	-6.66	22.66	40.00	-17.34	QP
3		120.9109	27.56	-5.86	21.70	43.50	-21.80	QP
4		158.6677	26.41	-3.56	22.85	43.50	-20.65	QP
5		391.4082	27.37	-1.04	26.33	46.00	-19.67	QP
6	*	839.1818	26.02	8.93	34.95	46.00	-11.05	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement– Limit

Model: PiP Max

Below 1GHz Test Results:
Antenna polarity: H
Worst case-8DPSK (low channel)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.7422	27.90	-6.32	21.58	40.00	-18.42	QP
2		96.2672	26.84	-7.92	18.92	43.50	-24.58	QP
3		162.8959	30.71	-3.41	27.30	43.50	-16.20	QP
4		190.7390	29.37	-5.32	24.05	43.50	-19.45	QP
5		405.3766	26.35	-0.80	25.55	46.00	-20.45	QP
6	*	948.7610	28.20	9.30	37.50	46.00	-8.50	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement– Limit

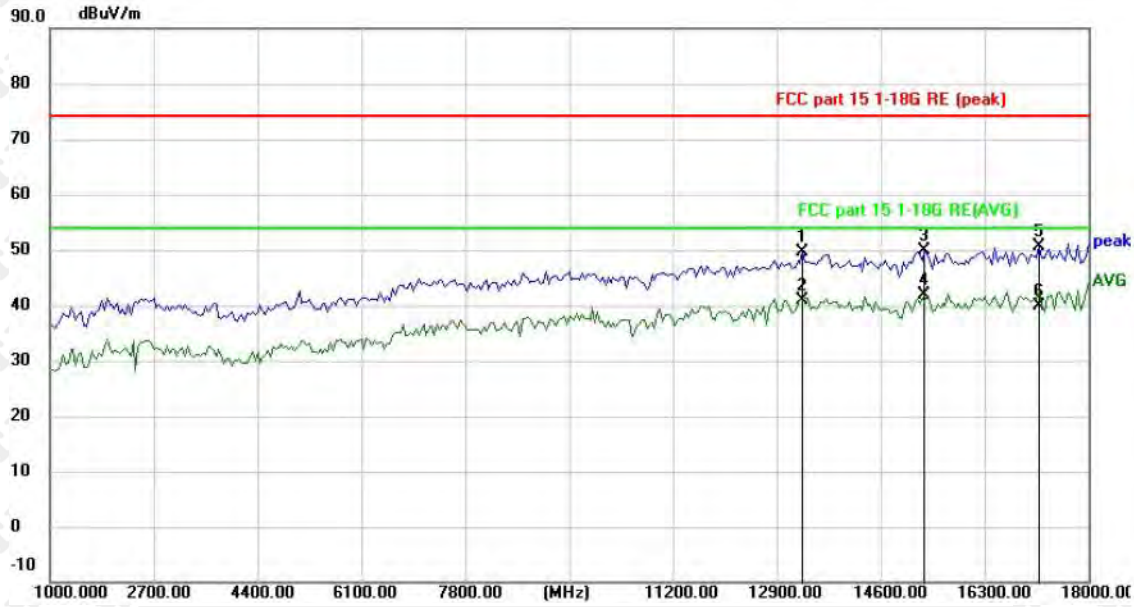
Antenna polarity: V

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.7422	29.66	-6.32	23.34	40.00	-16.66	QP
2		55.9026	27.68	-6.93	20.75	40.00	-19.25	QP
3		162.8959	31.91	-3.41	28.50	43.50	-15.00	QP
4	*	179.3863	38.94	-4.23	34.71	43.50	-8.79	QP
5		346.2017	28.08	-1.77	26.31	46.00	-19.69	QP
6		662.3106	30.84	5.48	36.32	46.00	-9.68	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement– Limit

Above 1 GHz Test Results:

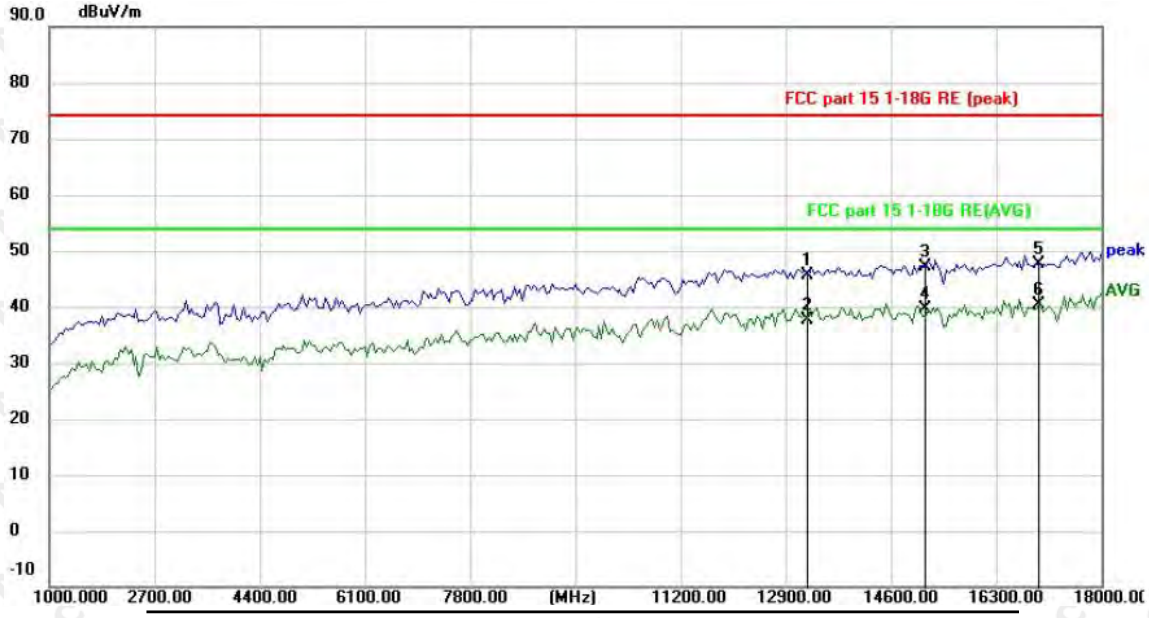
1GHz-18GHz
Antenna polarity: H
Worst case-8DPSK (Low channel)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		13325.000	40.04	9.52	49.56	74.00	-24.44	peak
2		13325.000	31.33	9.52	40.85	54.00	-13.15	AVG
3		15322.500	39.63	10.18	49.81	74.00	-24.19	peak
4	*	15322.500	31.82	10.18	42.00	54.00	-12.00	AVG
5		17192.500	35.38	15.21	50.59	74.00	-23.41	peak
6		17192.500	24.79	15.21	40.00	54.00	-14.00	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

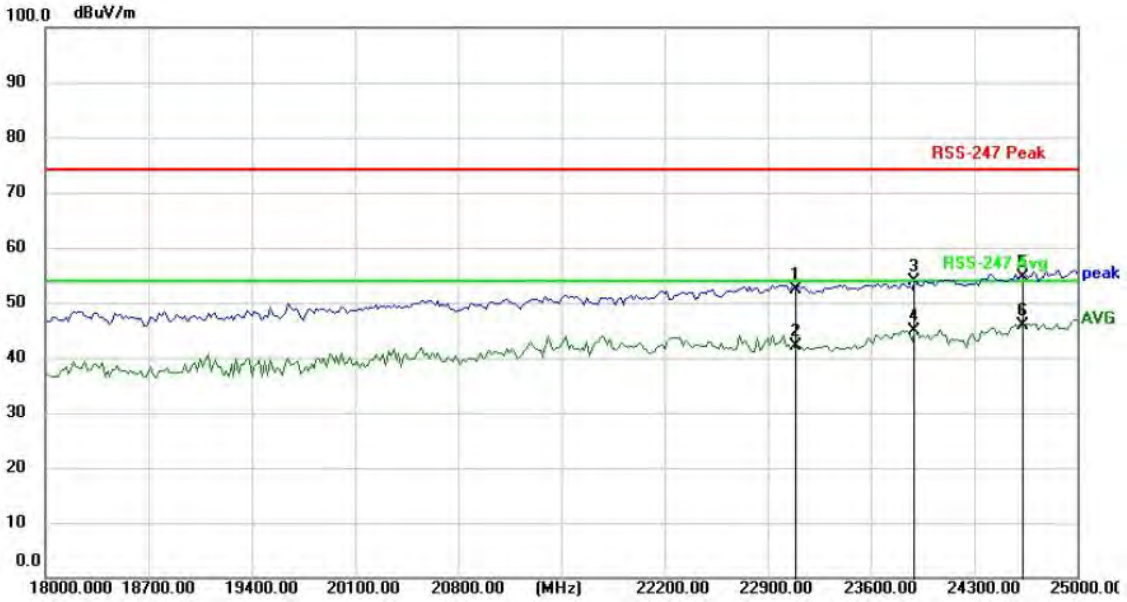
Antenna polarity: V



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		13240.000	36.23	9.38	45.61	74.00	-28.39	peak
2		13240.000	28.32	9.38	37.70	54.00	-16.30	AVG
3		15152.500	36.76	10.31	47.07	74.00	-26.93	peak
4		15152.500	29.36	10.31	39.67	54.00	-14.33	AVG
5		16980.000	33.82	13.72	47.54	74.00	-26.46	peak
6	*	16980.000	26.62	13.72	40.34	54.00	-13.66	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

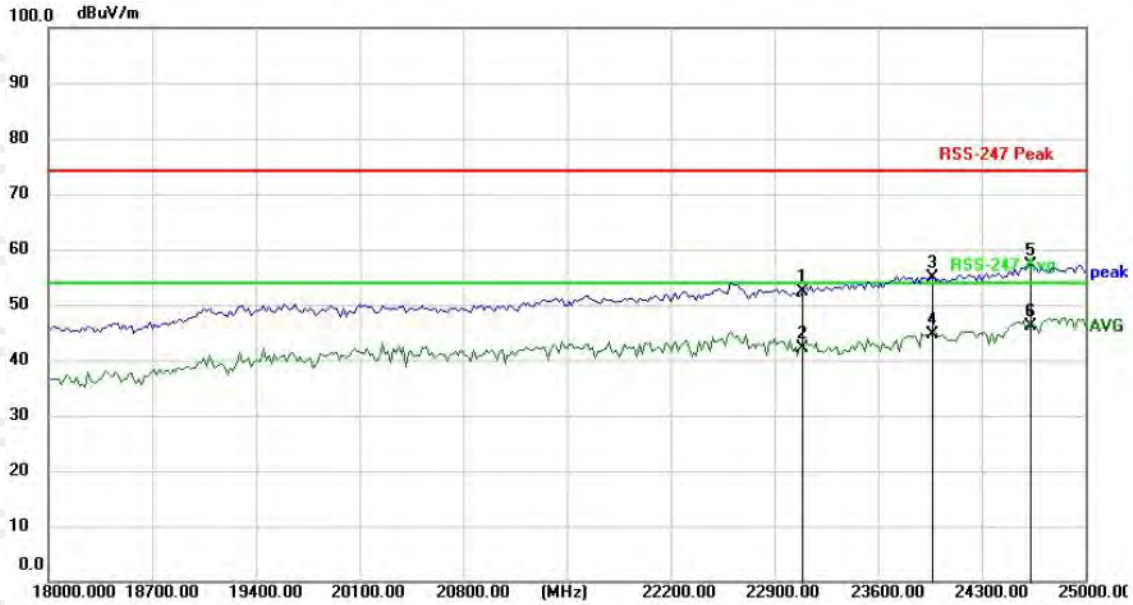
18GHz-25GHz
Antenna polarity: H
Worst case-8DPSK (Low channel)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		23092.500	61.83	-9.42	52.41	74.00	-21.59	peak
2		23092.500	51.48	-9.42	42.06	54.00	-11.94	AVG
3		23897.500	62.06	-8.21	53.85	74.00	-20.15	peak
4		23897.500	53.21	-8.21	45.00	54.00	-9.00	AVG
5		24632.500	61.82	-7.10	54.72	74.00	-19.28	peak
6	*	24632.500	53.07	-7.10	45.97	54.00	-8.03	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

Antenna polarity: V



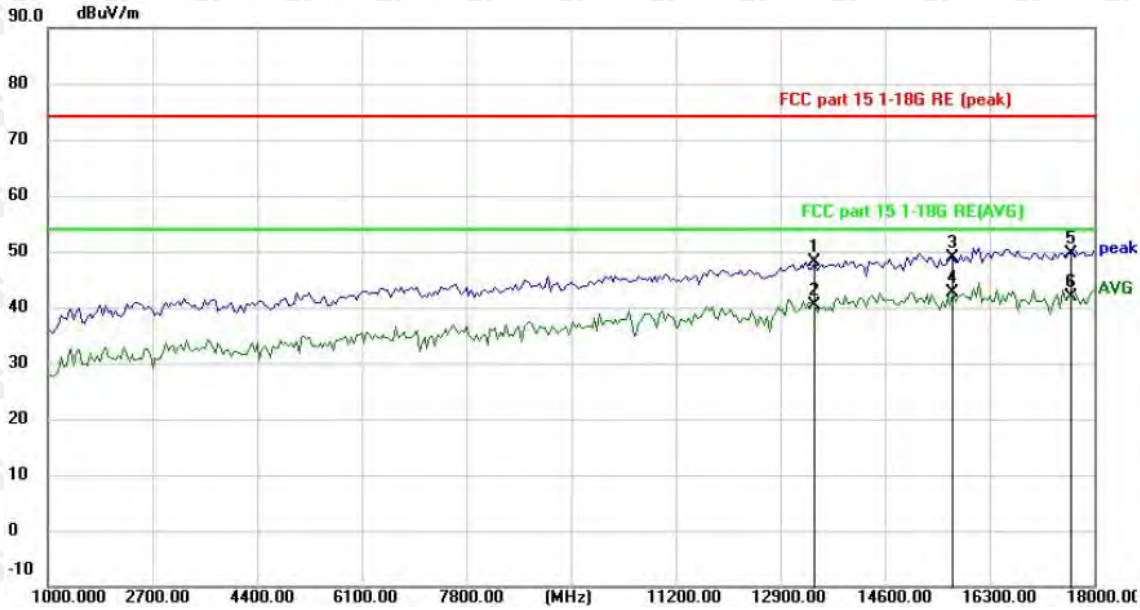
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		23092.500	61.83	-9.42	52.41	74.00	-21.59	peak
2		23092.500	51.56	-9.42	42.14	54.00	-11.86	AVG
3		23967.500	63.06	-8.11	54.95	74.00	-19.05	peak
4		23967.500	52.71	-8.11	44.60	54.00	-9.40	AVG
5		24632.500	64.32	-7.10	57.22	74.00	-16.78	peak
6	*	24632.500	53.30	-7.10	46.20	54.00	-7.80	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

1GHz-18GHz

Antenna polarity: H

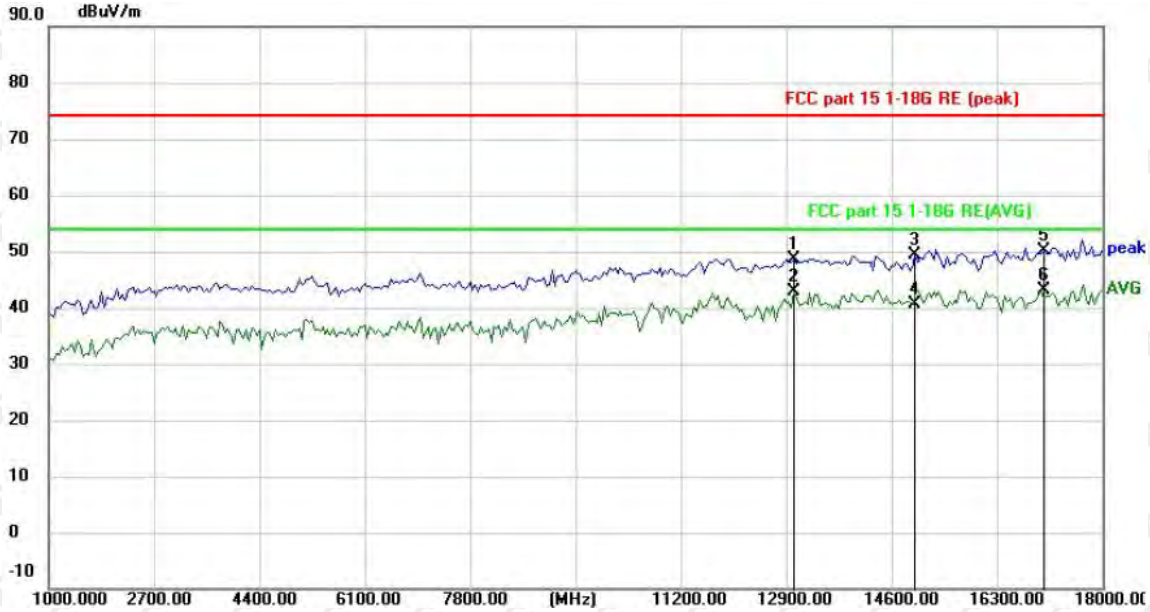
Worst case-8DPSK (Mid channel)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		13452.500	38.34	9.74	48.08	74.00	-25.92	peak
2		13452.500	30.53	9.74	40.27	54.00	-13.73	AVG
3		15705.000	38.99	9.88	48.87	74.00	-25.13	peak
4	*	15705.000	32.77	9.88	42.65	54.00	-11.35	AVG
5		17617.500	31.40	18.31	49.71	74.00	-24.29	peak
6		17617.500	23.59	18.31	41.90	54.00	-12.10	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

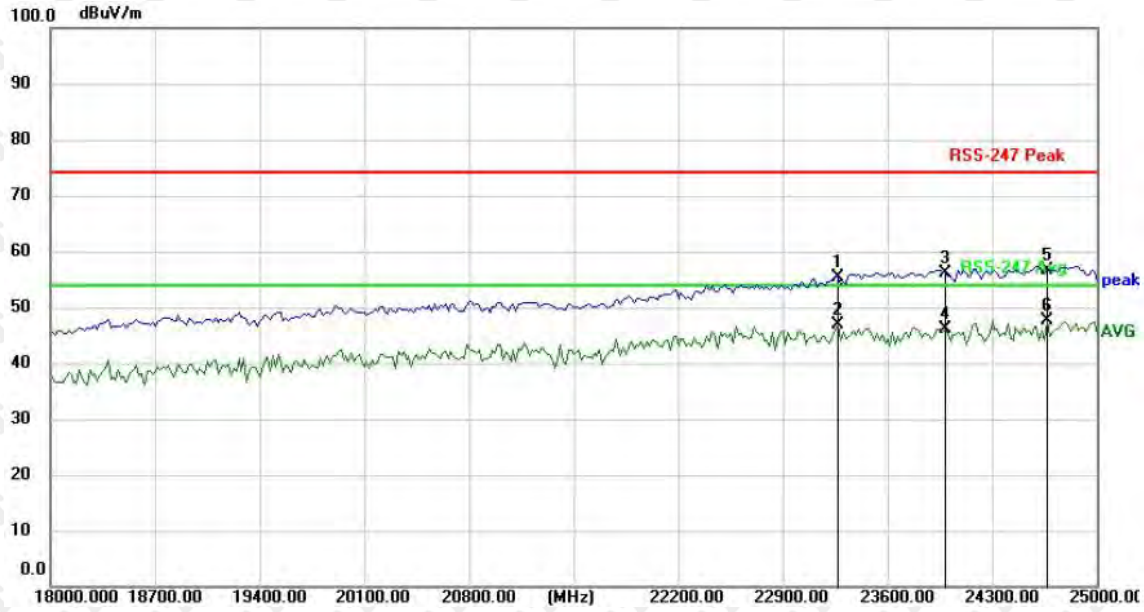
Antenna polarity: V



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		13027.500	39.64	9.03	48.67	74.00	-25.33	peak
2		13027.500	33.84	9.03	42.87	54.00	-11.13	AVG
3		14982.500	38.86	10.43	49.29	74.00	-24.71	peak
4		14982.500	30.10	10.43	40.53	54.00	-13.47	AVG
5		17065.000	35.92	14.28	50.20	74.00	-23.80	peak
6	*	17065.000	28.81	14.28	43.09	54.00	-10.91	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

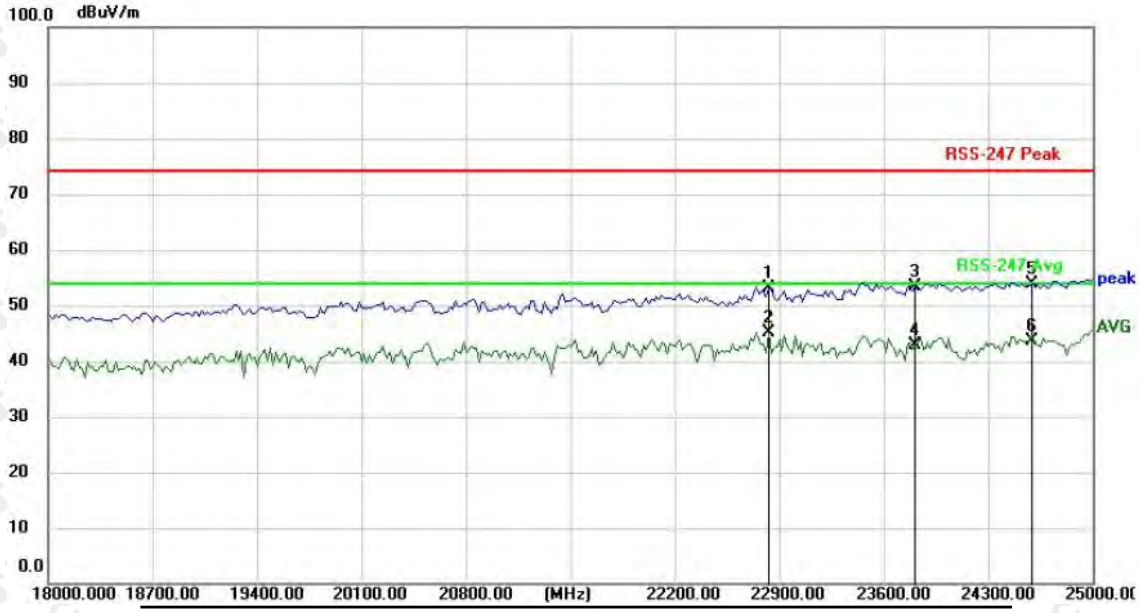
18GHz-25GHz
Antenna polarity: H
Worst case-8DPSK (Mid channel)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		23267.500	64.64	-9.16	55.48	74.00	-18.52	peak
2		23267.500	55.95	-9.16	46.79	54.00	-7.21	AVG
3		23985.000	64.11	-8.08	56.03	74.00	-17.97	peak
4		23985.000	54.28	-8.08	46.20	54.00	-7.80	AVG
5		24667.500	63.79	-7.05	56.74	74.00	-17.26	peak
6	*	24667.500	54.70	-7.05	47.65	54.00	-6.35	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

Antenna polarity: V



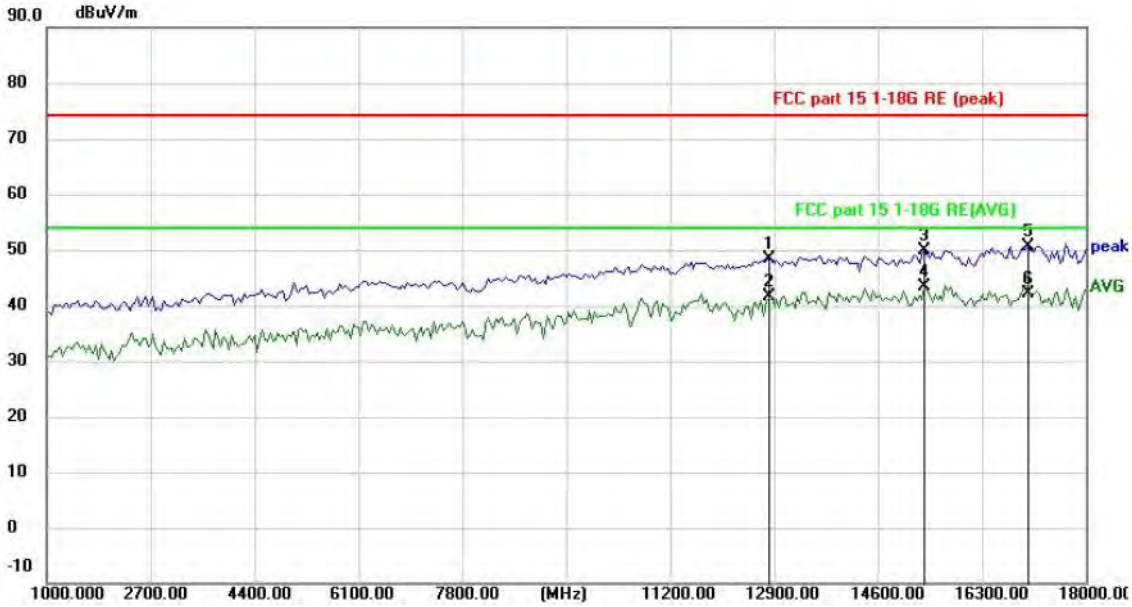
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		22830.000	62.77	-9.63	53.14	74.00	-20.86	peak
2	*	22830.000	54.67	-9.63	45.04	54.00	-8.96	AVG
3		23810.000	61.70	-8.35	53.35	74.00	-20.65	peak
4		23810.000	51.11	-8.35	42.76	54.00	-11.24	AVG
5		24597.500	60.93	-7.15	53.78	74.00	-20.22	peak
6		24597.500	50.81	-7.15	43.66	54.00	-10.34	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

1GHz-18GHz

Antenna polarity: H

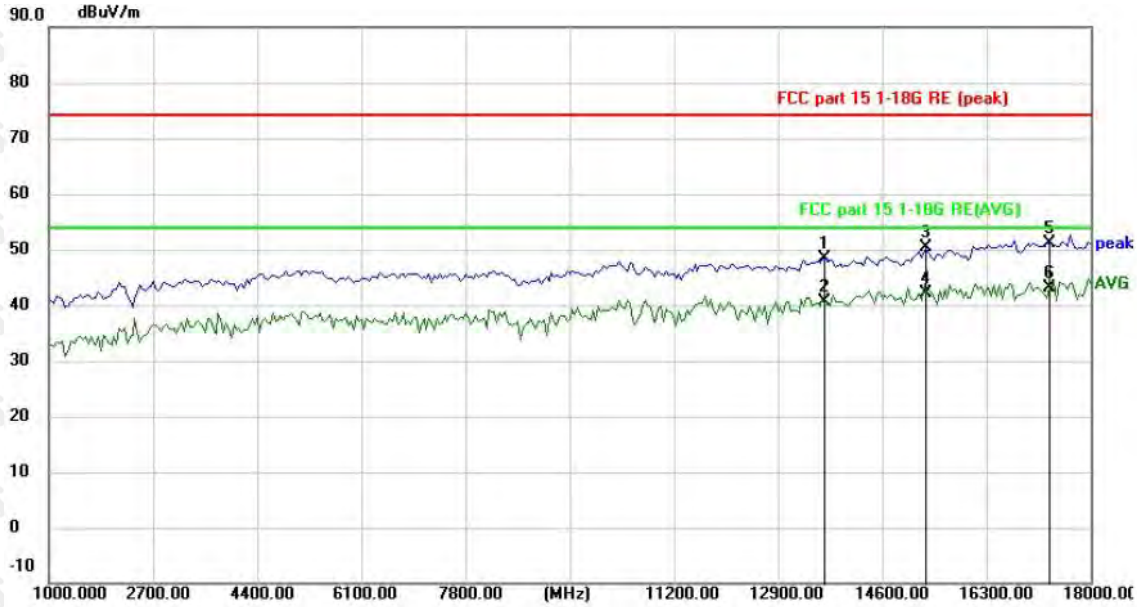
Worst case-8DPSK (High channel)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		12815.000	39.90	8.50	48.40	74.00	-25.60	peak
2		12815.000	33.10	8.50	41.60	54.00	-12.40	AVG
3		15365.000	39.62	10.15	49.77	74.00	-24.23	peak
4	*	15365.000	33.35	10.15	43.50	54.00	-10.50	AVG
5		17065.000	36.42	14.28	50.70	74.00	-23.30	peak
6		17065.000	27.85	14.28	42.13	54.00	-11.87	AVG

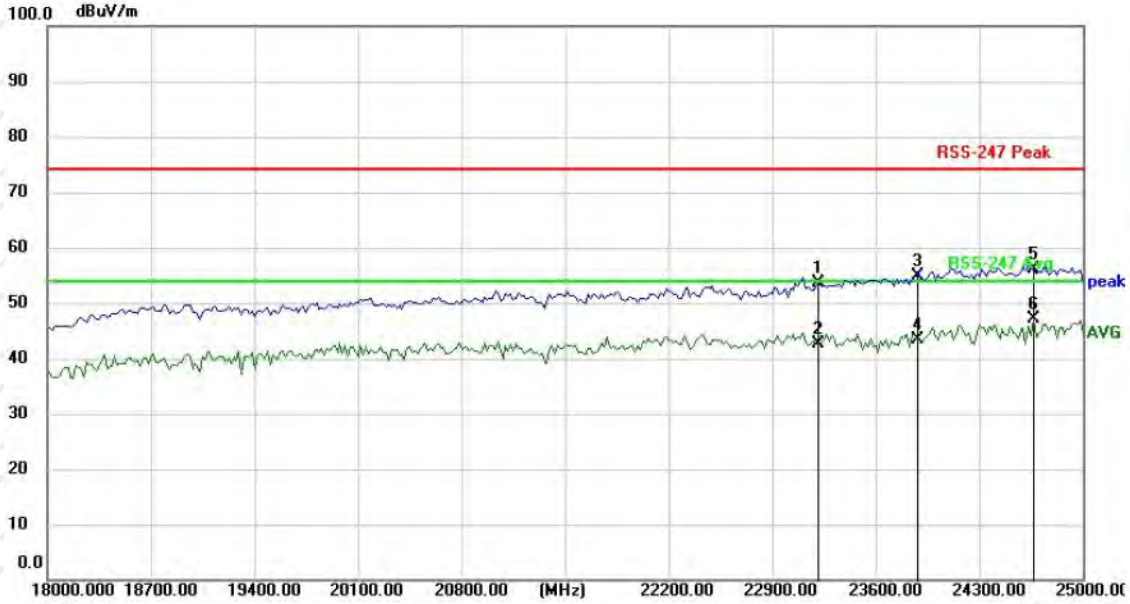
Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

Antenna polarity: V



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		13665.000	38.17	10.09	48.26	74.00	-25.74	peak
2		13665.000	30.49	10.09	40.58	54.00	-13.42	AVG
3		15322.500	40.13	10.18	50.31	74.00	-23.69	peak
4		15322.500	32.00	10.18	42.18	54.00	-11.82	AVG
5		17320.000	35.07	16.14	51.21	74.00	-22.79	peak
6	*	17320.000	26.91	16.14	43.05	54.00	-10.95	AVG

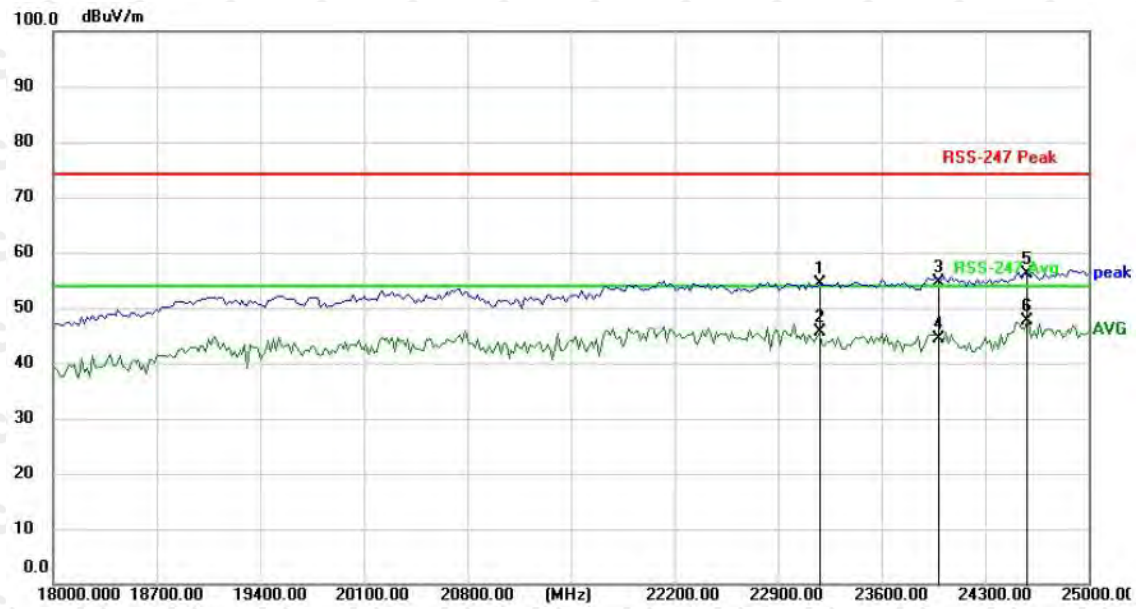
18GHz-25GHz
Antenna polarity: H
Worst case-8DPSK High channel)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		23215.000	62.79	-9.24	53.55	74.00	-20.45	peak
2		23215.000	51.99	-9.24	42.75	54.00	-11.25	AVG
3		23880.000	63.11	-8.24	54.87	74.00	-19.13	peak
4		23880.000	51.74	-8.24	43.50	54.00	-10.50	AVG
5		24667.500	63.29	-7.05	56.24	74.00	-17.76	peak
6	*	24667.500	54.20	-7.05	47.15	54.00	-6.85	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

Antenna polarity: V



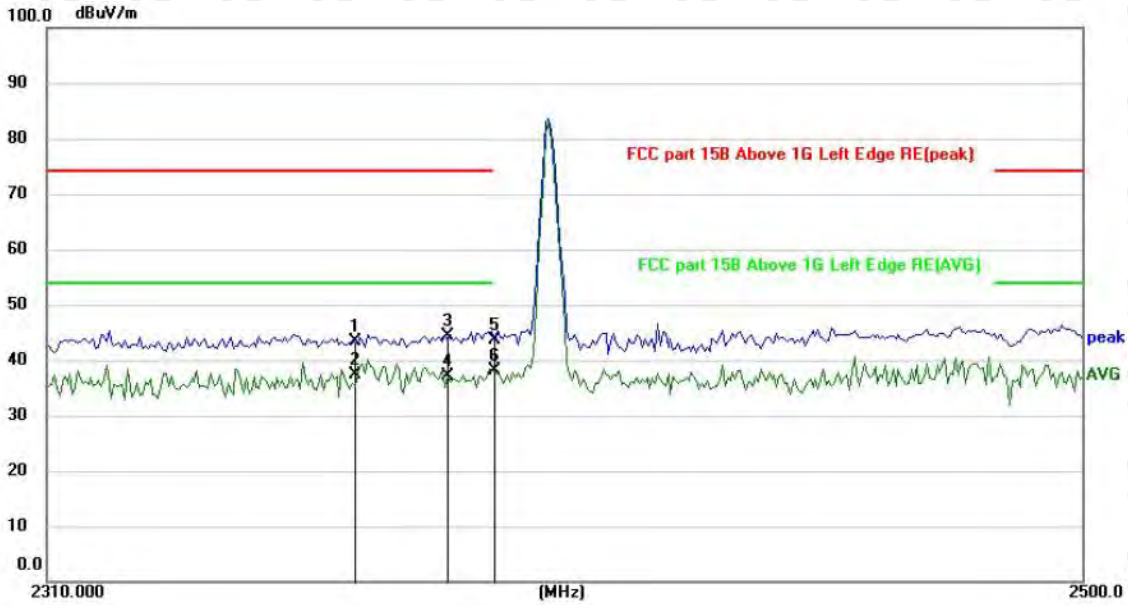
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		23180.000	63.71	-9.29	54.42	74.00	-19.58	peak
2		23180.000	54.91	-9.29	45.62	54.00	-8.38	AVG
3		23985.000	62.61	-8.08	54.53	74.00	-19.47	peak
4		23985.000	52.36	-8.08	44.28	54.00	-9.72	AVG
5		24580.000	63.23	-7.18	56.05	74.00	-17.95	peak
6	*	24580.000	54.81	-7.18	47.63	54.00	-6.37	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit
Remark:
(1). Measuring frequencies from 9KHz to the 25 GHz, The test range is 9K ~10 times the main wave, and other spurious below the limit of 20dB will not be reflected in the report.
(2). All modes of GFSK, π/4 DQPSK, 8DPSK were test at Low, Middle, and High channel, only the worst result of 8DPSK was reported for below 1GHz test.
(3). All modes of GFSK, π/4 DQPSK, 8DPSK were test at Low, Middle, and High channel, only the worst result of 8DPSK was reported for above 1GHz test.
(4). By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that “Z axis” position was the worst, and test data recorded in this report.
(5). Radiated emission test from 9kHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9kHz to 30MHz and not recorded in this report.
(6) Other points have also been tested, which are below the limit value of 20dB, so they are not reflected in the report.

Restricted bands around fundamental frequency (Radiated)

Antenna polarity: H

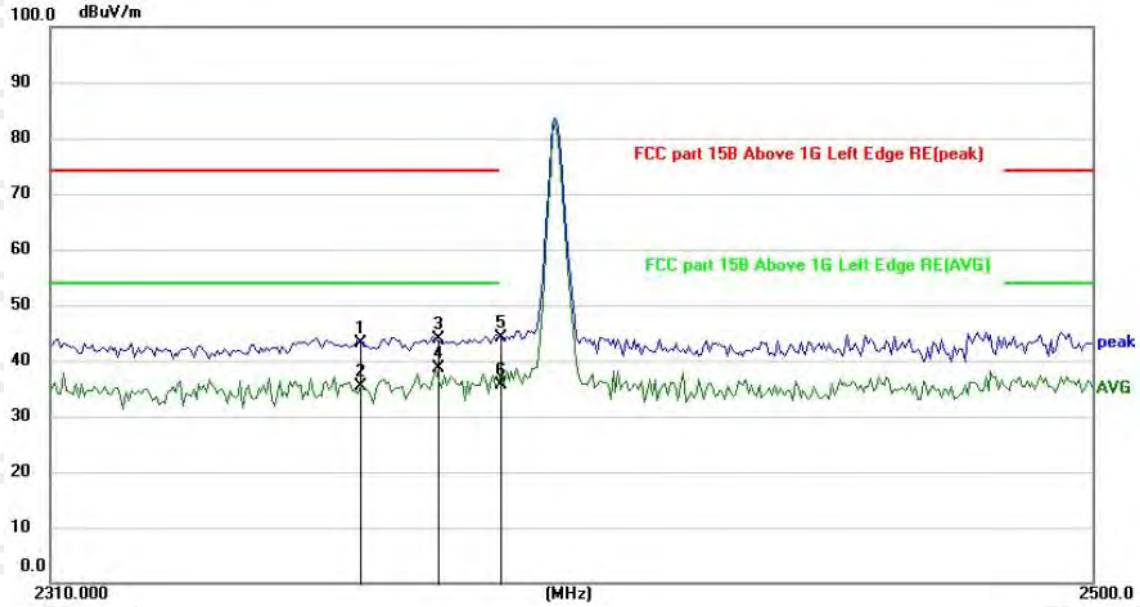
8DPSK (Low channel)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		2364.964	63.32	-19.82	43.50	74.00	-30.50	peak
2		2364.964	57.11	-19.82	37.29	54.00	-16.71	AVG
3		2381.378	64.03	-19.73	44.30	74.00	-29.70	peak
4		2381.378	56.74	-19.73	37.01	54.00	-16.99	AVG
5		2390.000	63.25	-19.68	43.57	74.00	-30.43	peak
6	*	2390.000	57.92	-19.68	38.24	54.00	-15.76	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

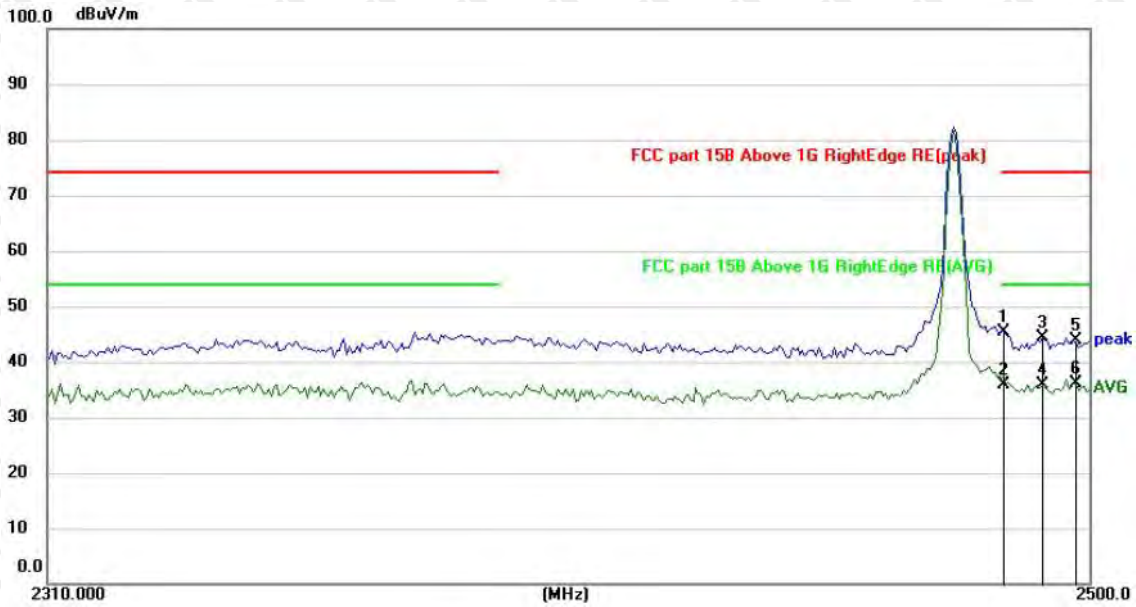
Antenna polarity: V



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		2364.964	62.91	-19.82	43.09	74.00	-30.91	peak
2		2364.964	55.32	-19.82	35.50	54.00	-18.50	AVG
3		2378.556	63.71	-19.74	43.97	74.00	-30.03	peak
4	*	2378.556	58.27	-19.74	38.53	54.00	-15.47	AVG
5		2390.000	63.87	-19.68	44.19	74.00	-29.81	peak
6		2390.000	55.39	-19.68	35.71	54.00	-18.29	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

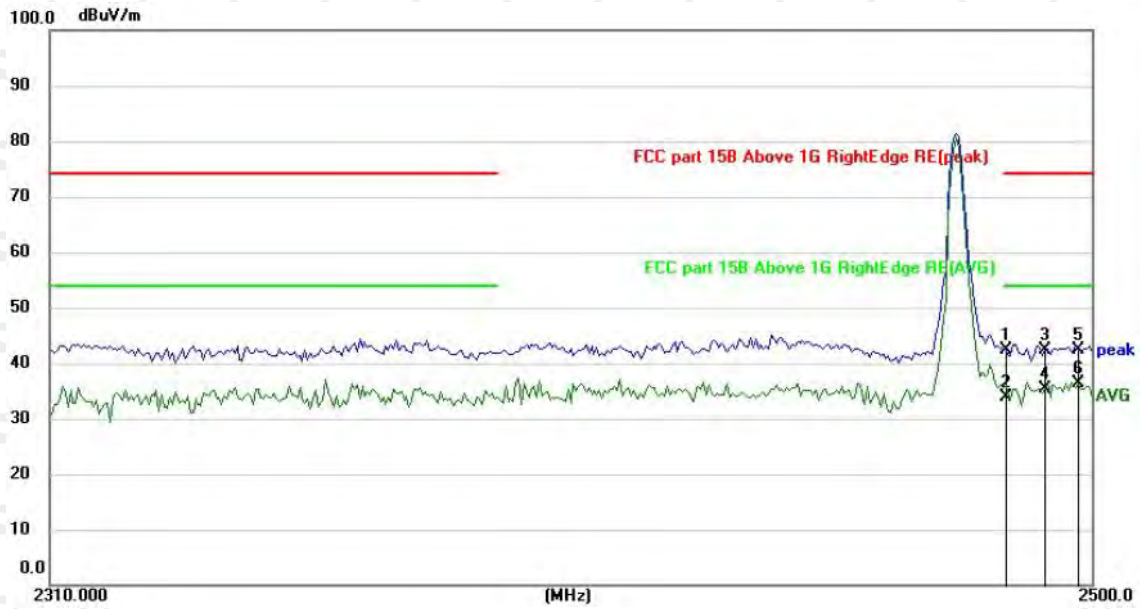
Antenna polarity: H
8DPSK (High channel)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		2483.500	64.49	-19.15	45.34	74.00	-28.66	peak
2		2483.500	55.14	-19.15	35.99	54.00	-18.01	AVG
3		2491.123	63.61	-19.11	44.50	74.00	-29.50	peak
4		2491.123	55.02	-19.11	35.91	54.00	-18.09	AVG
5		2497.038	63.08	-19.08	44.00	74.00	-30.00	peak
6	*	2497.038	55.20	-19.08	36.12	54.00	-17.88	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit

Antenna polarity: V

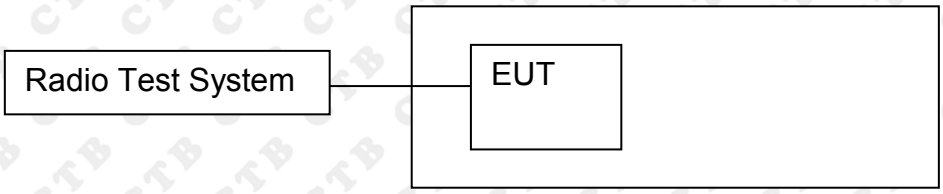


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		2483.500	61.53	-19.15	42.38	74.00	-31.62	peak
2		2483.500	53.02	-19.15	33.87	54.00	-20.13	AVG
3		2491.123	61.48	-19.11	42.37	74.00	-31.63	peak
4		2491.123	54.40	-19.11	35.29	54.00	-18.71	AVG
5		2497.531	61.46	-19.07	42.39	74.00	-31.61	peak
6	*	2497.531	55.44	-19.07	36.37	54.00	-17.63	AVG

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Measurement – Limit
Note: All modes of GFSK, π/4 DQPSK, 8DPSK were test at Low, High channel, Hopping and No Hopping was tested and passed, the worst result of 8DPSK No Hopping was reported

8. BAND EDGE AND RF COUNDUCTED SPURIOUS EMISSIONS

8.1 Block Diagram Of Test Setup



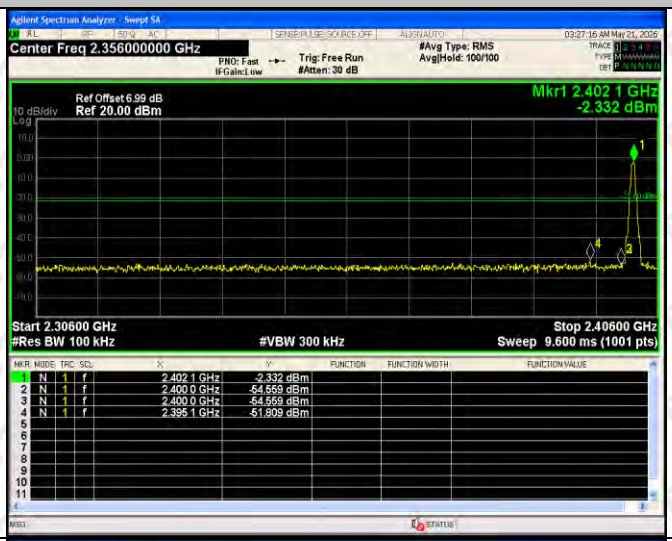
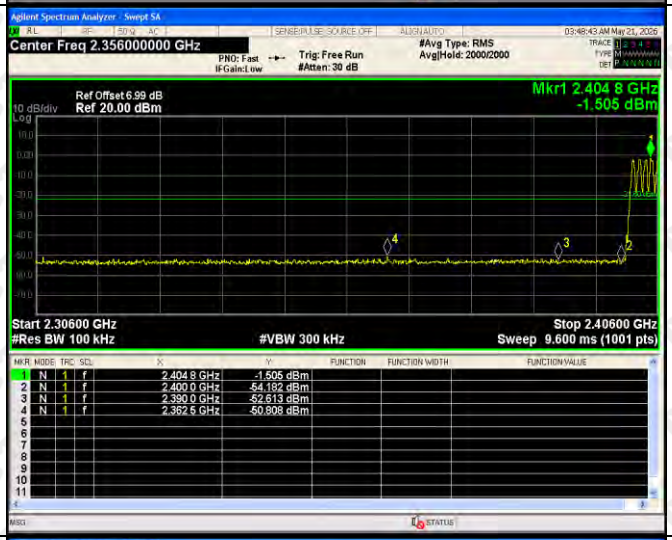
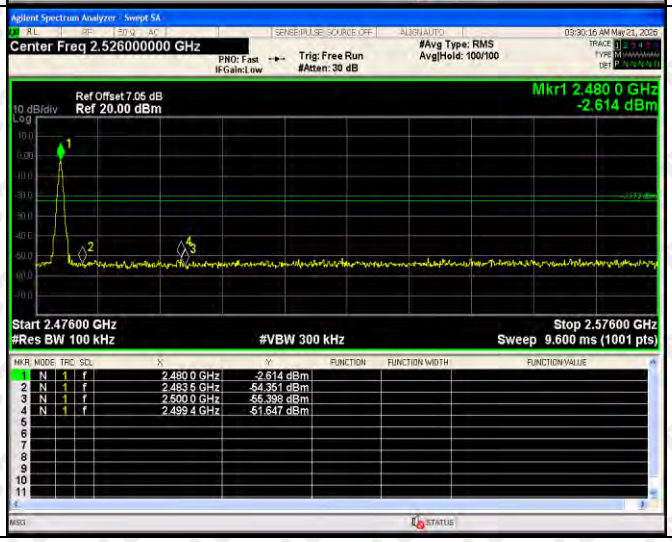
8.2 Limit

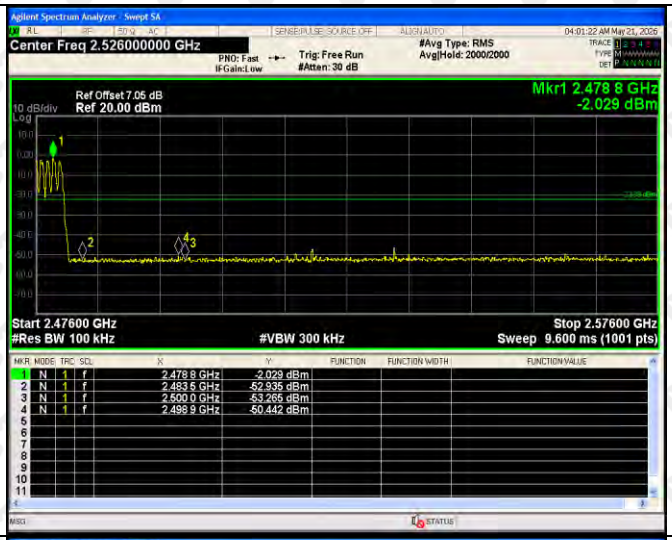
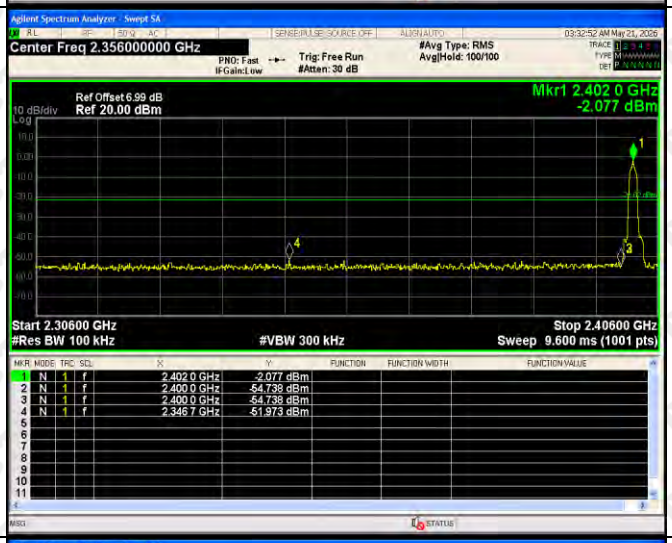
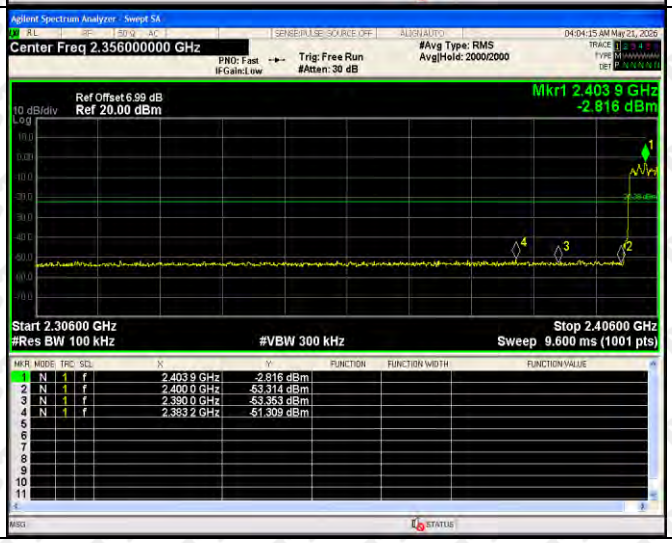
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

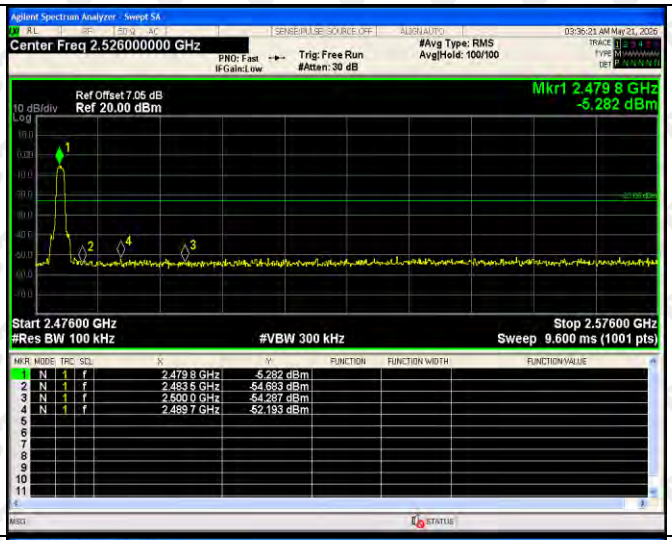
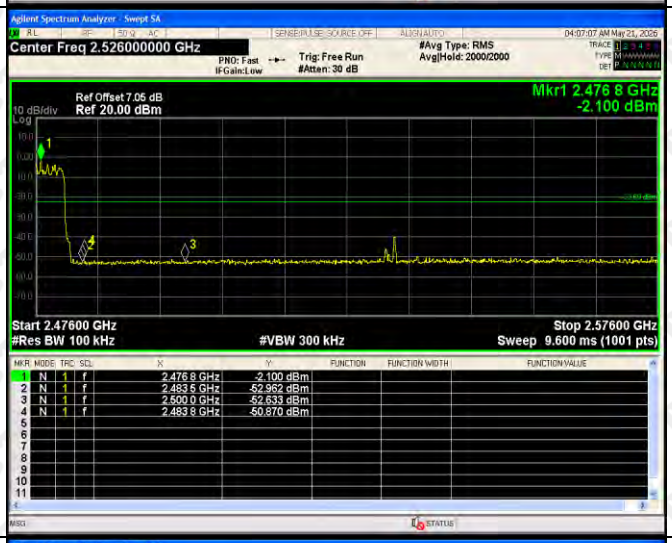
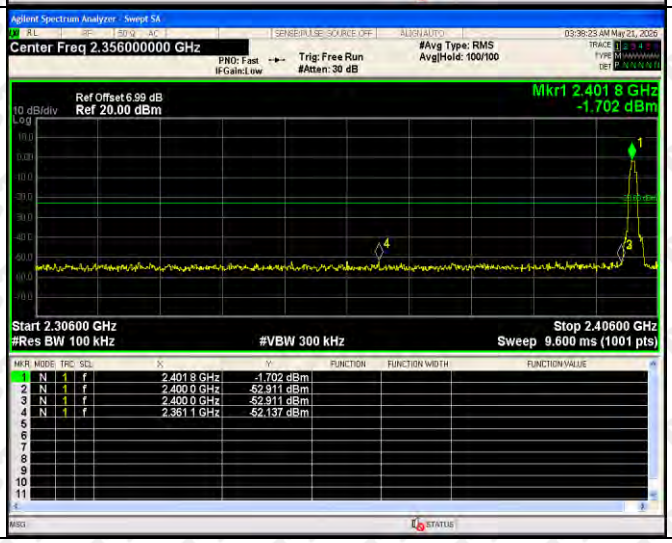
8.3 Test procedure

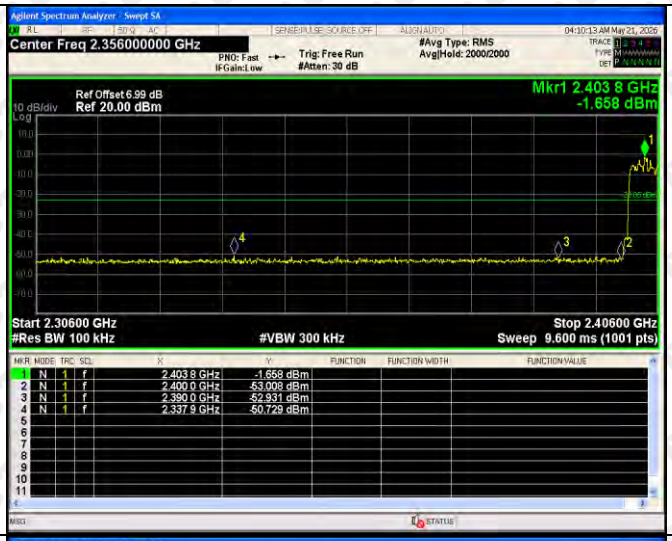
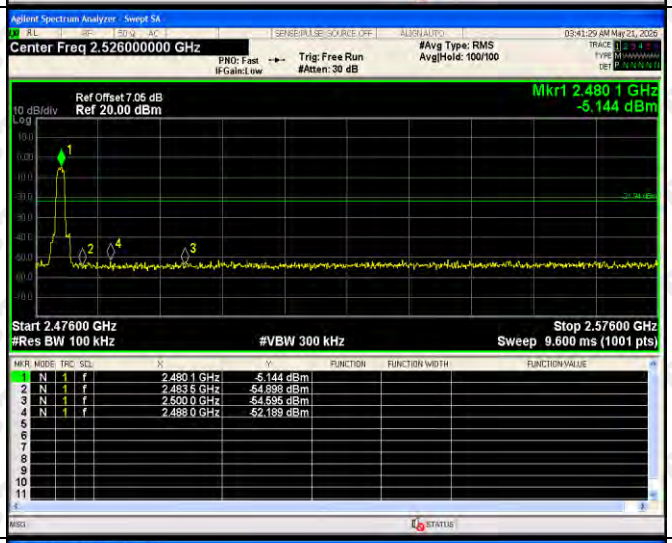
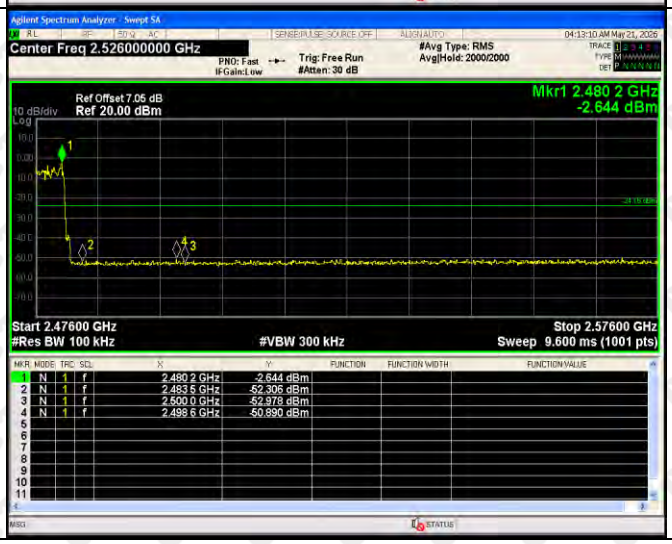
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
Blow 30MHz:
RBW = 100kHz, VBW = 300kHz, Sweep = auto
Detector function = peak, Trace = max hold
Above 30MHz:
RBW = 100kHz, VBW = 300kHz, Sweep = auto
Detector function = peak, Trace = max hold

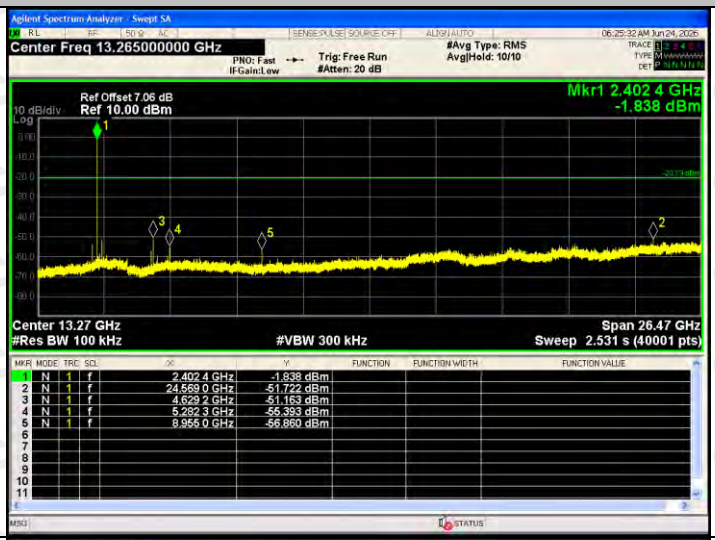
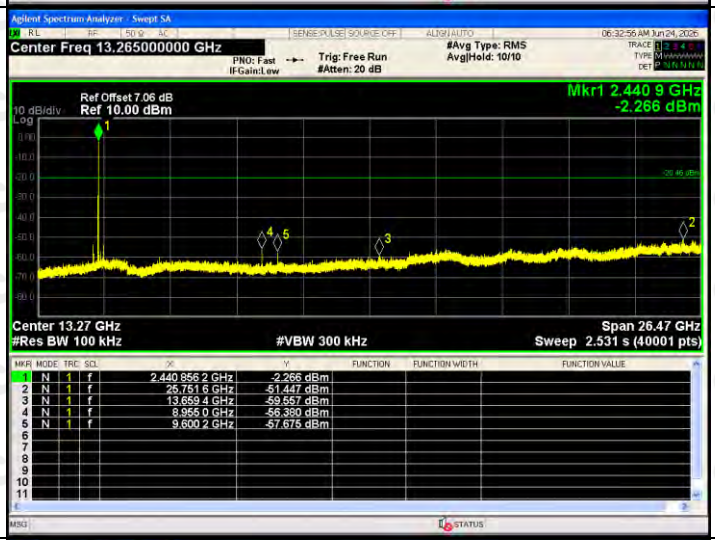
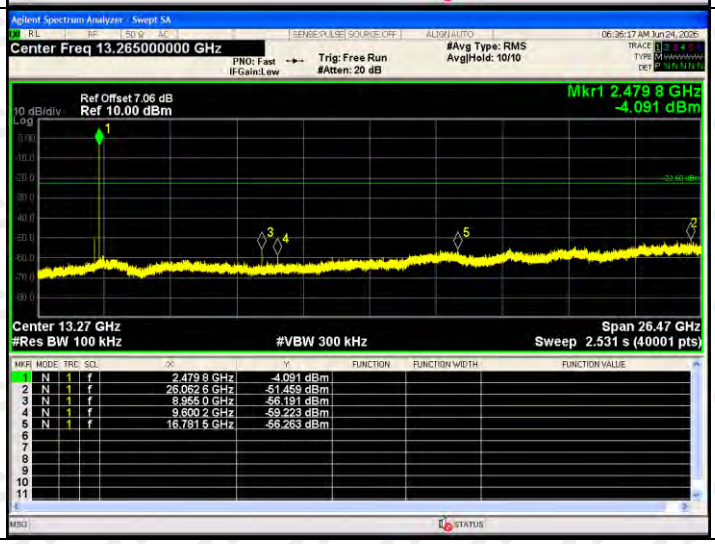
8.4 Test Result

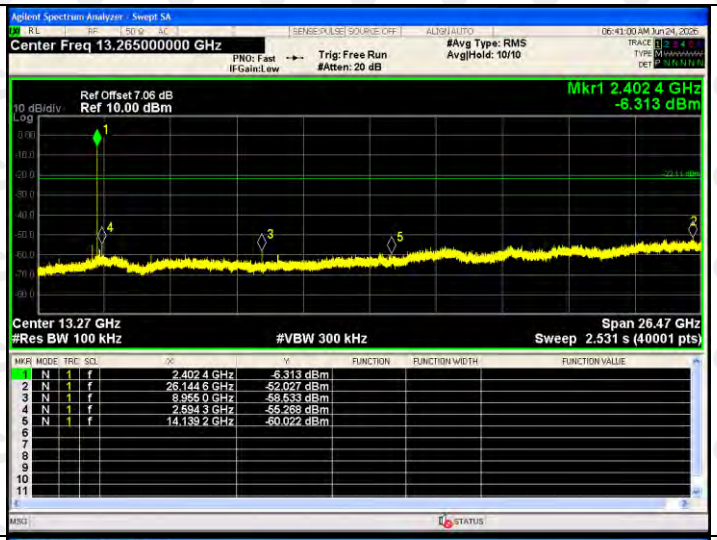
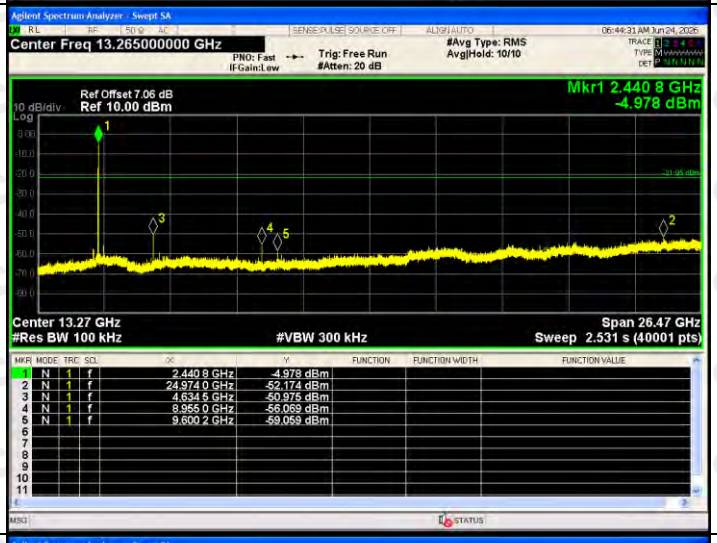
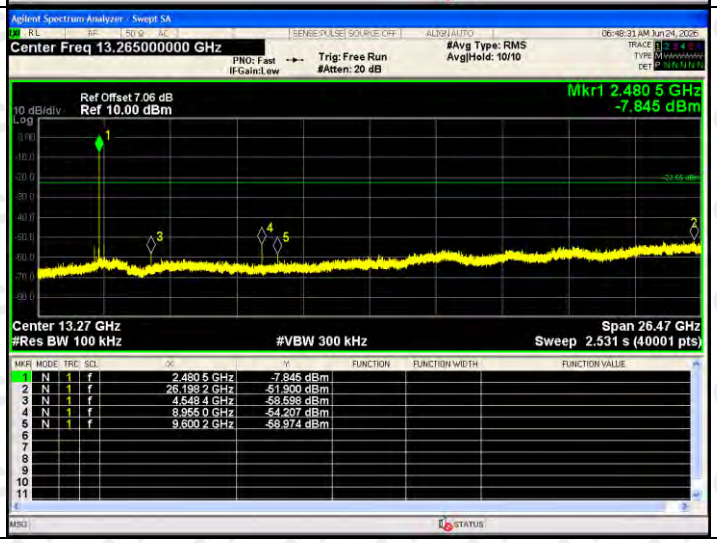
BAND EDGE Graphs		
GFSK/LCH/ No Hop		
GFSK/LCH/ Hop		
GFSK/HCH/ No Hop		

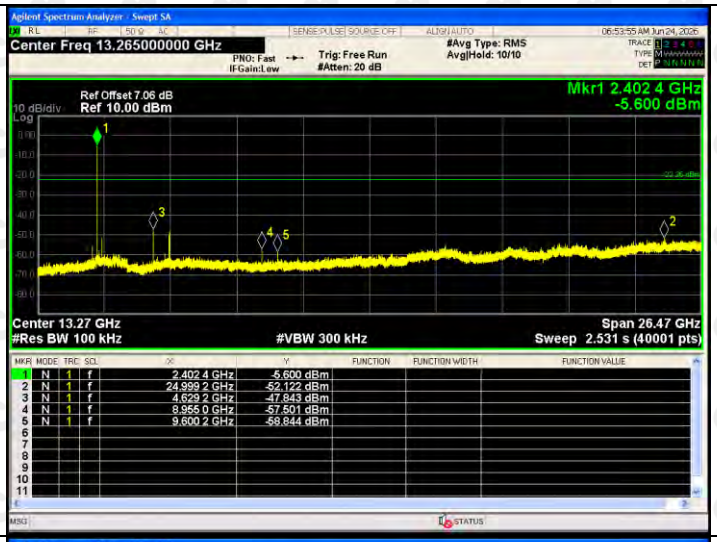
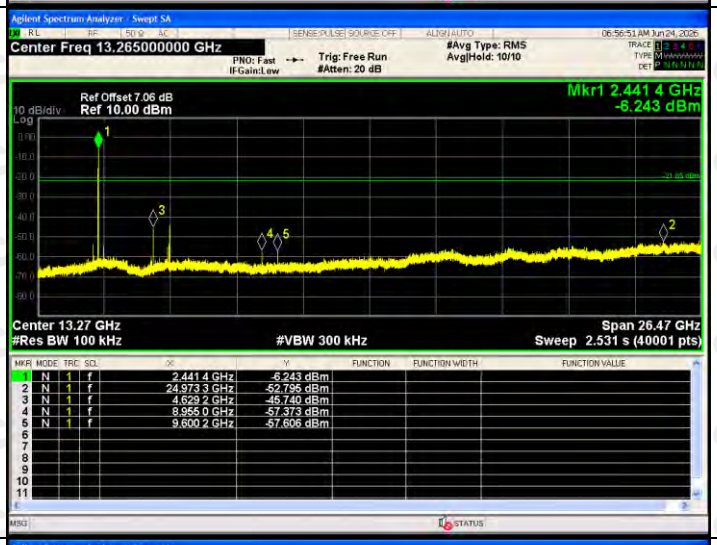
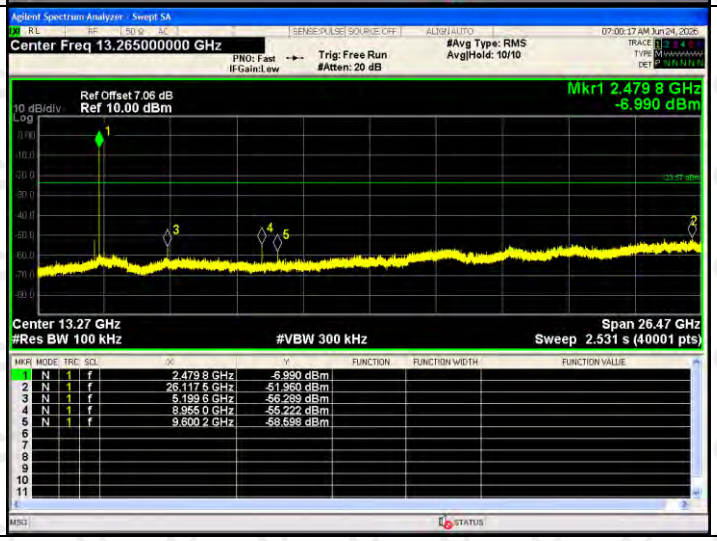
GFSK/HCH/ Hop			
π/4DQPSK/LCH/ No Hop			
π/4DQPSK/LCH/ Hop			

π/4DQPSK/HCH/ No Hop			
π/4DQPSK/HCH/ Hop			
8DPSK/LCH/No Hop			

8DPSK /LCH/Hop			
8DPSK /HCH/No Hop			
8DPSK /HCH/Hop			

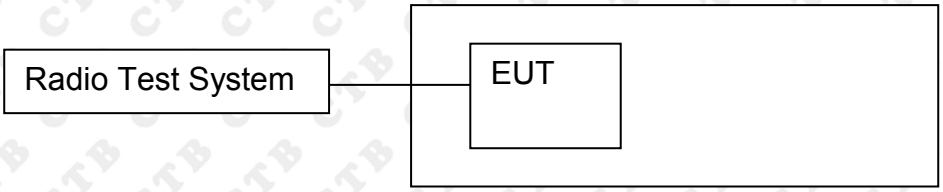
RF Conducted Spurious Emissions Graphs			
GFSK/LCH			
GFSK/MCH			
GFSK/HCH			

π/4DQPSK /LCH			
π/4DQPSK/MCH			
π/4DQPSK/HCH			

8DPSK /LCH			
8DPSK /MCH			
8DPSK /HCH			

9. CONDUCTED PEAK OUTPUT POWER

9.1 Block Diagram Of Test Setup



9.2 Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

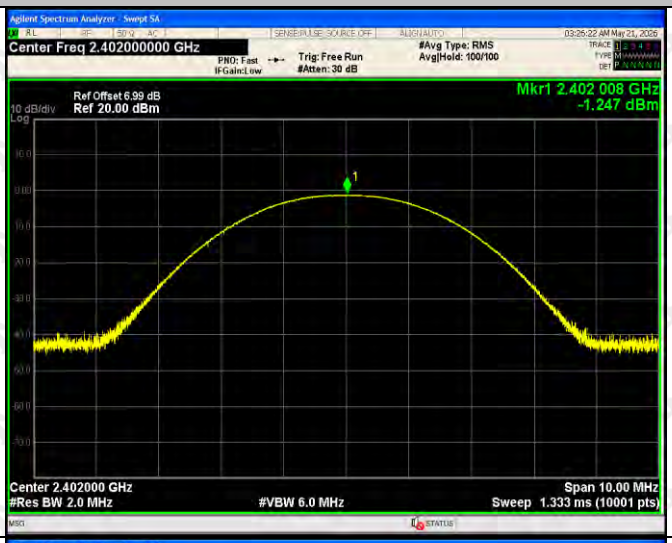
9.3 Test procedure

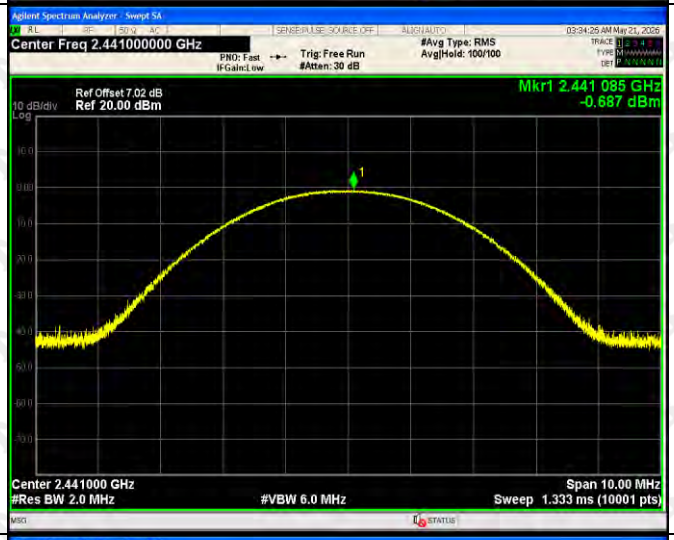
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.
3. Keep the EUT in transmitting at lowest, middle and highest channel individually. Record the max value.

9.4 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-1.25	20.97	PASS
	MCH	-1.23	20.97	PASS
	HCH	-1.55	20.97	PASS
π/4DQPSK	LCH	-0.61	20.97	PASS
	MCH	-0.69	20.97	PASS
	HCH	-1.05	20.97	PASS
8DPSK	LCH	-0.3	20.97	PASS
	MCH	-0.41	20.97	PASS
	HCH	-0.72	20.97	PASS

Test Graph:

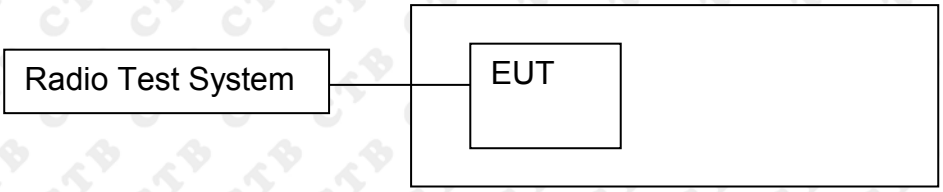
Graphs		
GFSK/LCH		
GFSK/MCH		
GFSK/HCH		

π/4DQPSK/LCH		
π/4DQPSK/MCH		
π/4DQPSK/HCH		

8DPSK/LCH			
8DPSK /MCH			
8DPSK /HCH			

10. 20DB OCCUPIED BANDWIDTH

10.1 Block Diagram Of Test Setup



10.2 Limit

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

10.3 Test procedure

1. Rem1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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.

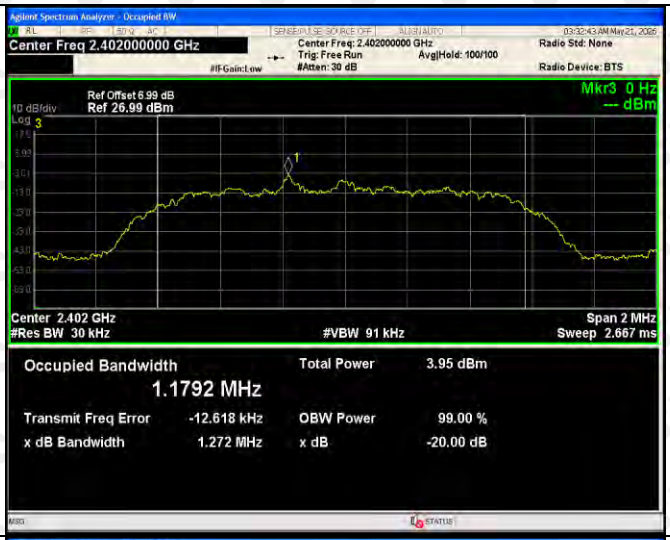
10.4 Test Result

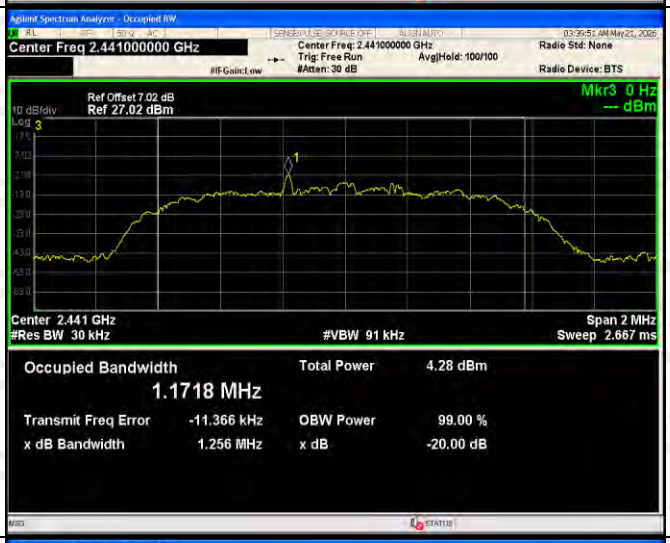
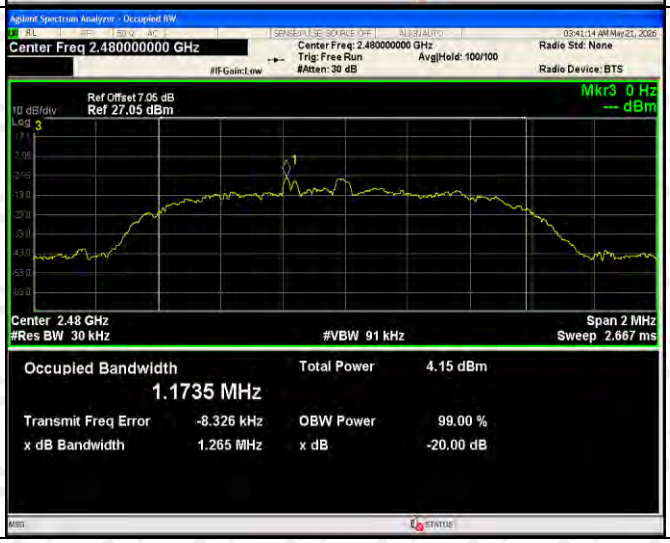
Test Mode	Frequency	20dB Bandwidth (MHz)	Result
GFSK	Low channel	0.9447	**PASS**
	Mid channel	0.8544	**PASS**
	High channel	0.9210	**PASS**
π/4DQPSK	Low channel	1.2722	**PASS**
	Mid channel	1.2813	**PASS**
	High channel	1.2652	**PASS**
8DPSK	Low channel	1.2731	**PASS**
	Mid channel	1.2556	**PASS**
	High channel	1.2652	**PASS**

Note: All modes of operation were Pre-scan and the worst-case emissions are reported.

Test Graph:

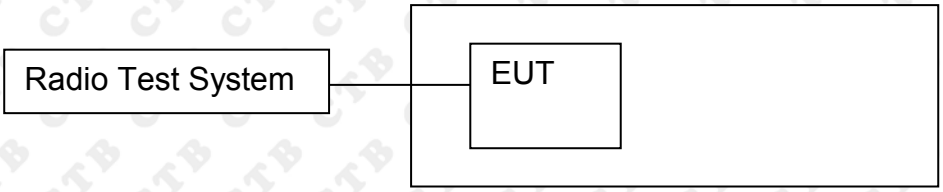
GFSK Low channel			
GFSK Mid channel			
GFSK High channel			

π/4-DQPSK Low channel			
π/4-DQPSK Mid channel			
π/4-DQPSK High channel			

8DPSK Low channel			
8DPSK Mid channel			
8DPSK High channel			

11. CARRIER FREQUENCIES SEPARATION

11.1 Block Diagram Of Test Setup



11.2 Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.

11.3 Test procedure

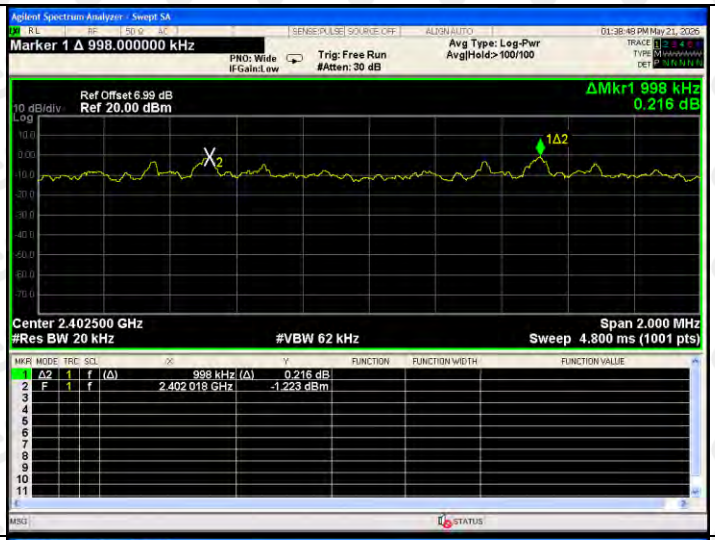
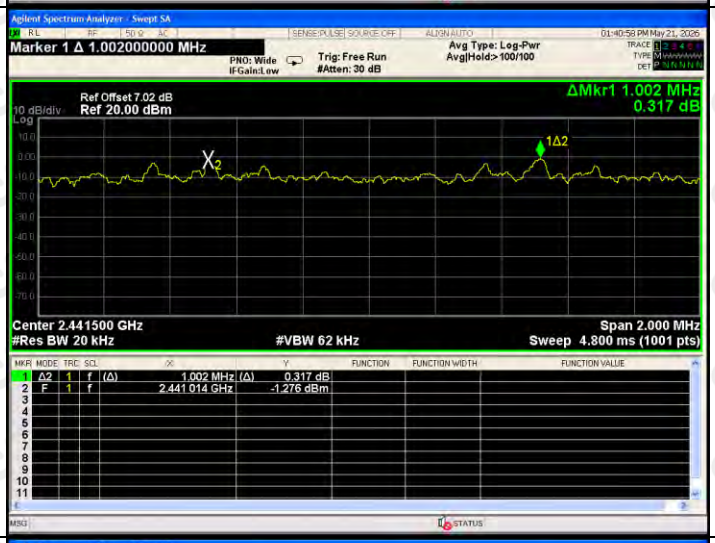
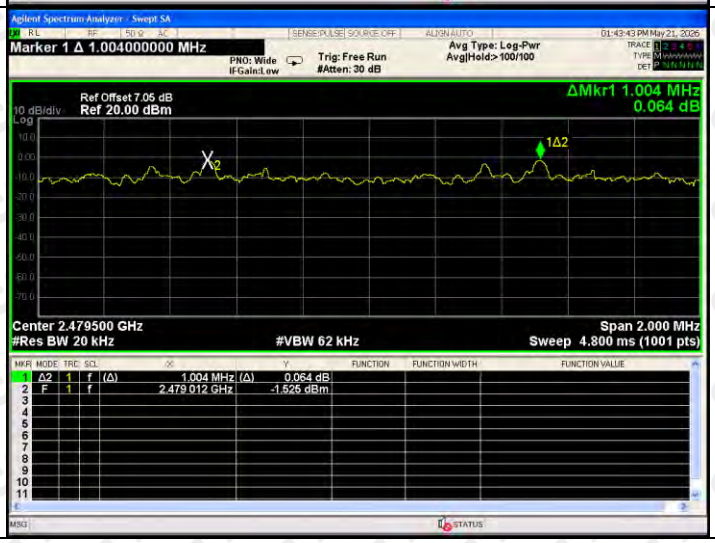
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 20kHz. VBW = 60kHz , Span = 2MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

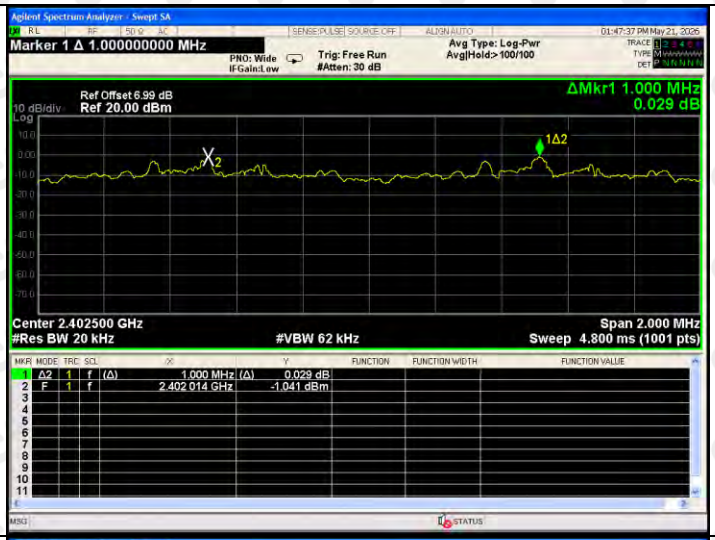
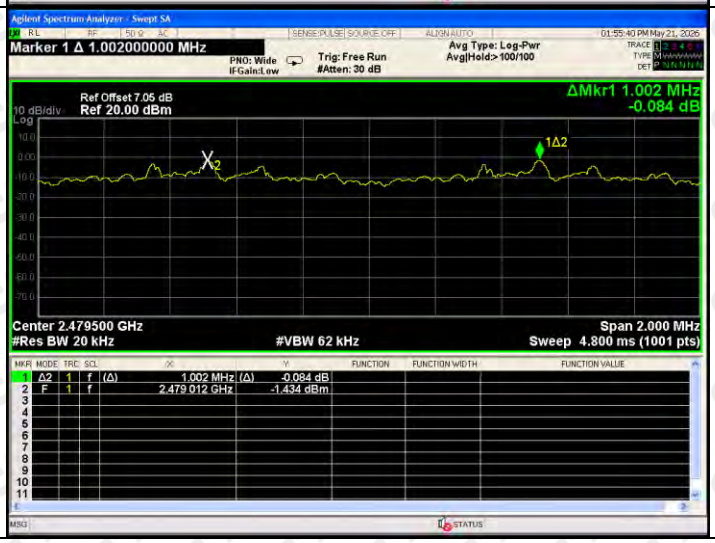
11.4 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit(2/3 of the 20dB bandwidth MHz)	Verdict
GFSK	LCH	0.998	0.630	PASS
GFSK	MCH	1.000	0.570	PASS
GFSK	HCH	1.000	0.614	PASS
π/4DQPSK	LCH	0.998	0.848	PASS
π/4DQPSK	MCH	1.002	0.854	PASS
π/4DQPSK	HCH	1.004	0.843	PASS
8DPSK	LCH	1.000	0.849	PASS
8DPSK	MCH	0.998	0.837	PASS
8DPSK	HCH	1.002	0.843	PASS

Test Graph

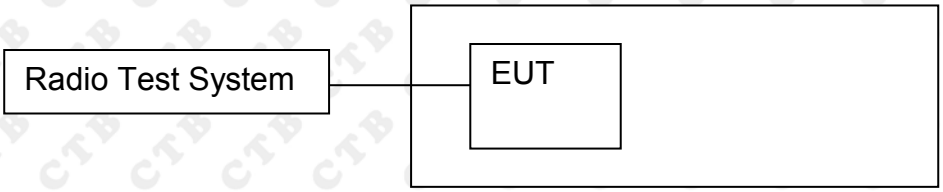
Graphs		
GFSK/LCH		
GFSK/MCH		
GFSK/HCH		

π/4DQPSK/LCH			
π/4DQPSK/MCH			
π/4DQPSK/HCH			

8DPSK/LCH			
8DPSK /MCH			
8DPSK /HCH			

12. HOPPING CHANNEL NUMBER

12.1 Block Diagram Of Test Setup



12.2 Limit

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

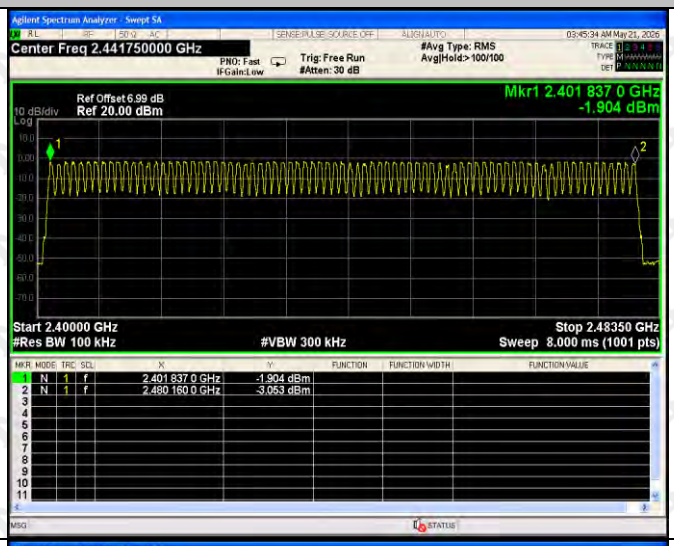
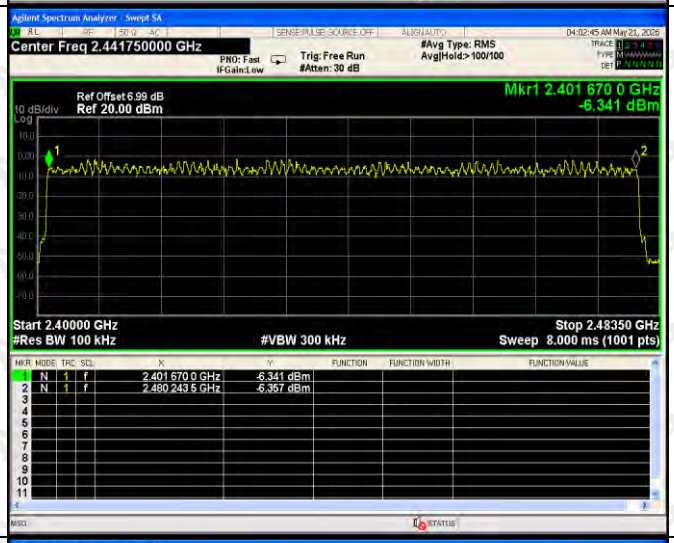
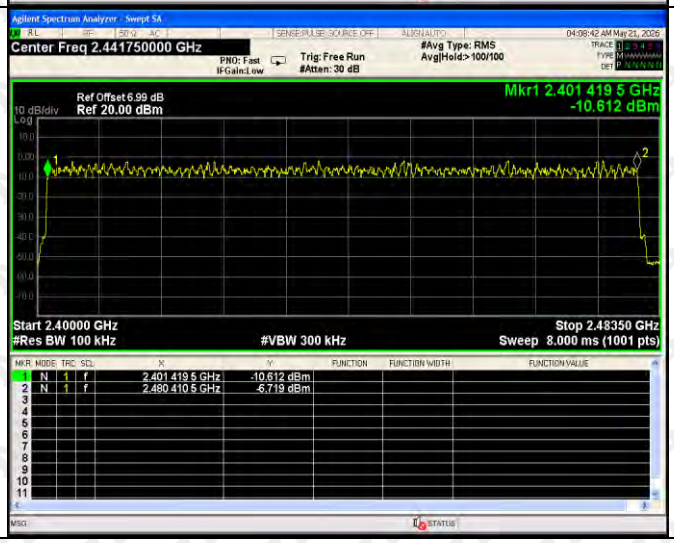
12.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

12.4 Test Result

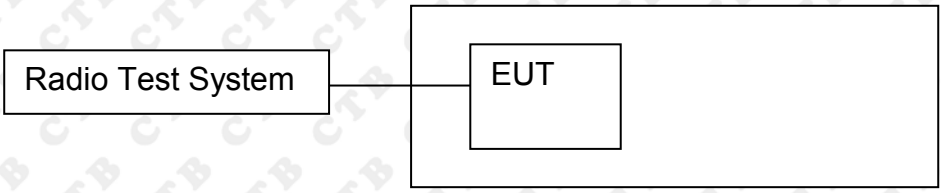
Mode	Channel.	Number of Hopping Channel	Limit	Verdict
GFSK	Hop	79	≥15	PASS
π/4DQPSK	Hop	79	≥15	PASS
8DPSK	Hop	79	≥15	PASS

Test Graph

Graphs		
GFSK/Hop		
π/4DQPSK/Hop		
8DPSK/Hop		

13. DWELL TIME

13.1 Block Diagram Of Test Setup



13.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

13.3 Test procedure

According to ANSI C63.10-2020 sub-clause 7.8.4

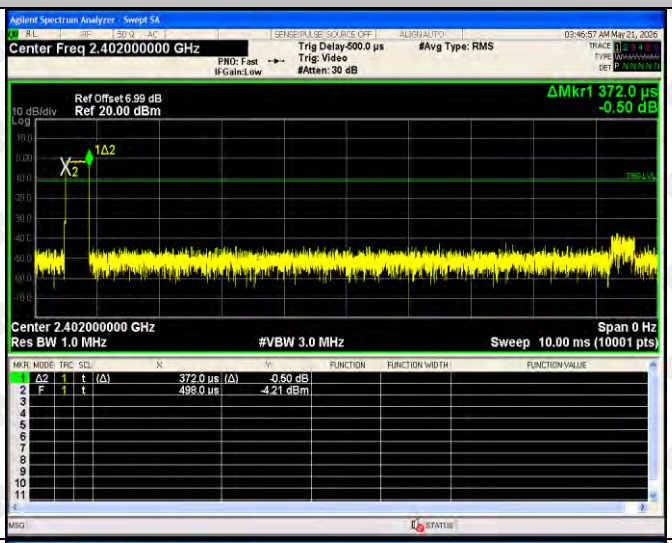
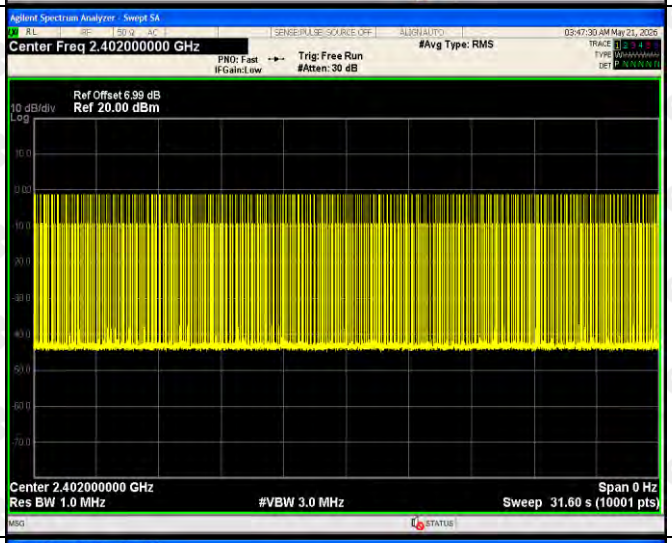
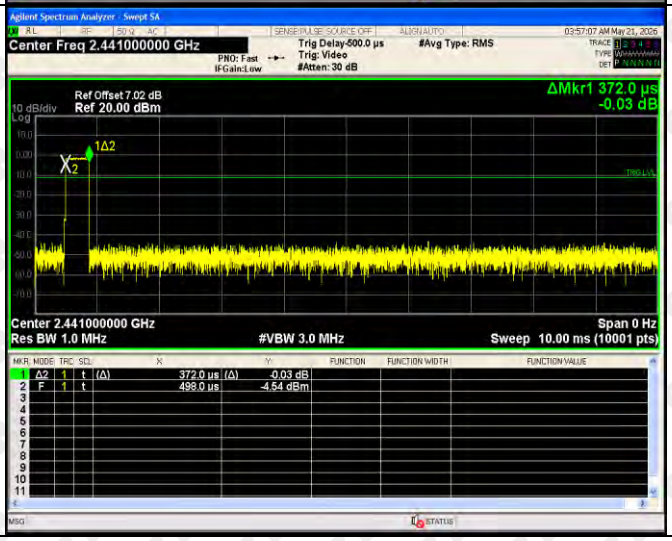
The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:
a. Span: Zero span, centered on a hopping channel.
b. RBW shall be ≤ channel spacing and where possible RBW should be set ≥ 1 / T, where T is the expected dwell time per channel.
c. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
d. Detector function: Peak.
e. Trace: Max hold.
f. Trace: Clear-write, single sweep.
g. Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

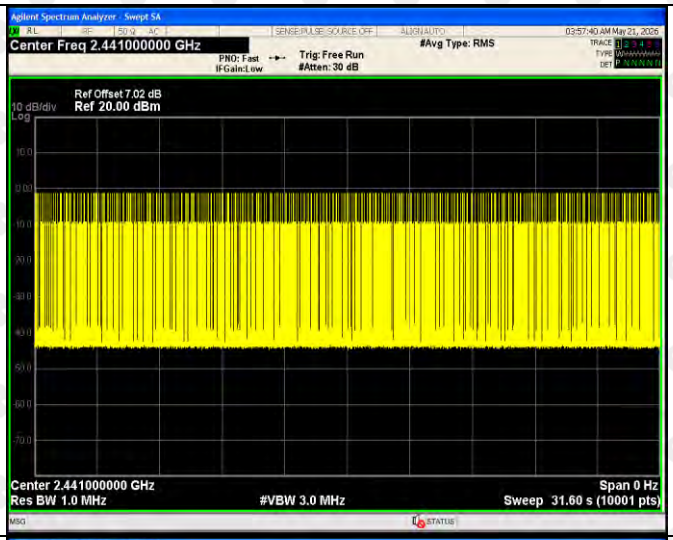
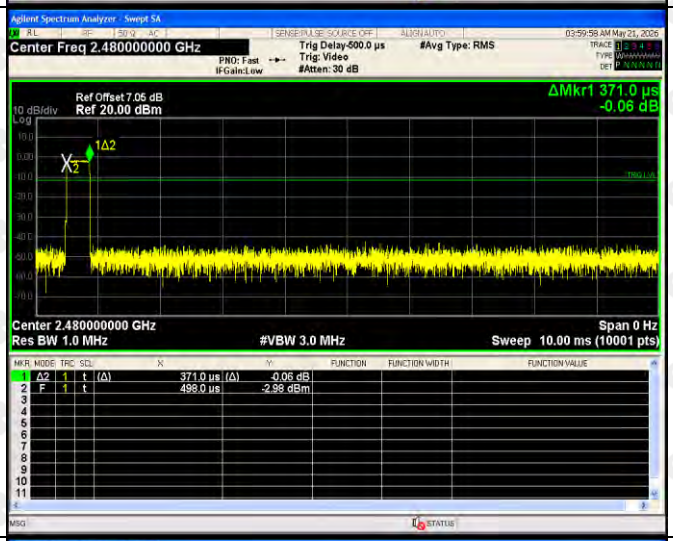
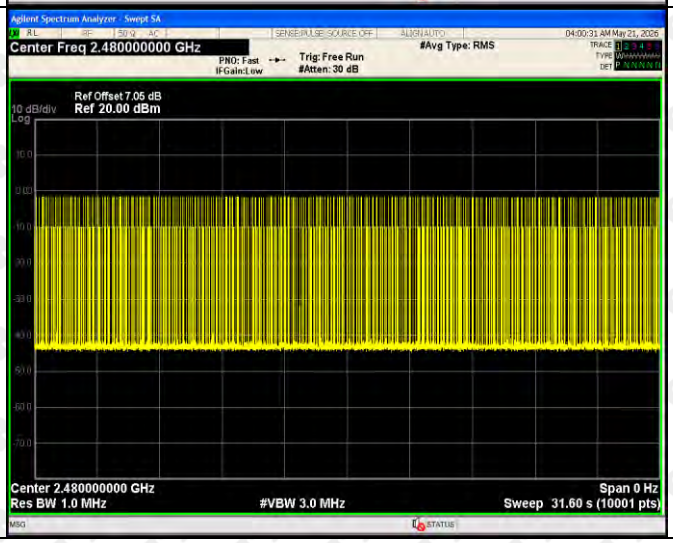
13.4 Test Result

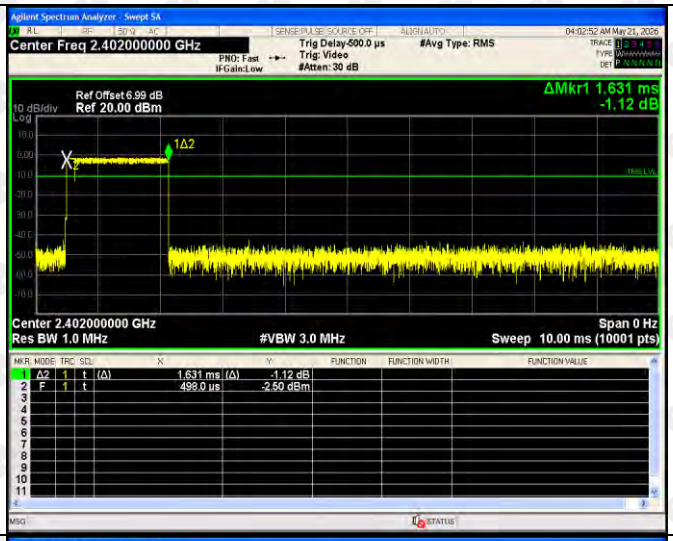
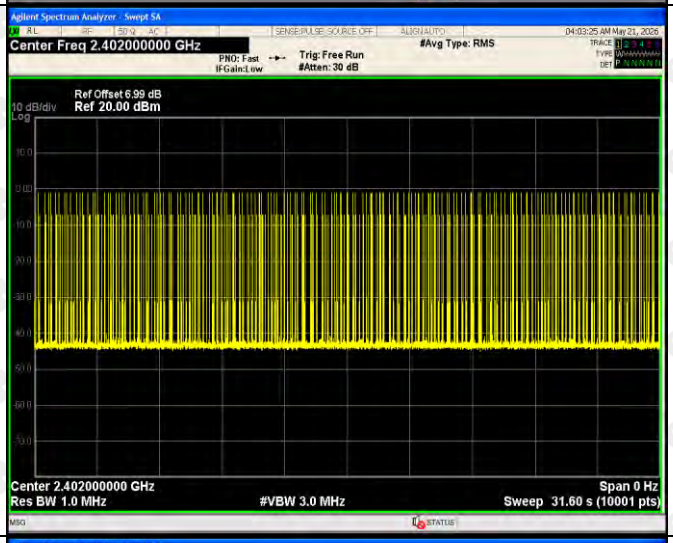
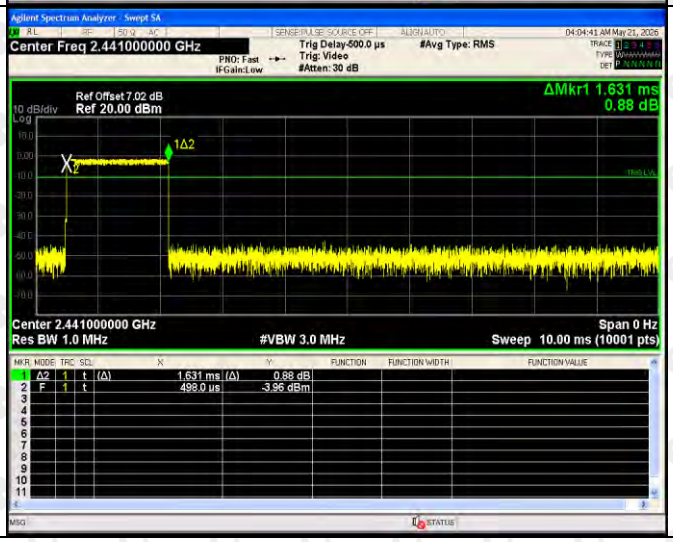
Packet	Channel	Pulse Time (ms)	Burst Count (Num)	Total Dwell Time (ms)	Limit (ms)	Verdict
DH1	LCH	0.372	320	119.04	400	PASS
DH1	MCH	0.372	319	118.668	400	PASS
DH1	HCH	0.371	318	117.978	400	PASS
2DH3	LCH	1.631	159	259.329	400	PASS
2DH3	MCH	1.631	159	259.329	400	PASS
2DH3	HCH	1.631	158	257.698	400	PASS
3DH5	LCH	2.88	106	305.28	400	PASS
3DH5	MCH	2.88	107	308.16	400	PASS
3DH5	HCH	2.88	106	305.28	400	PASS

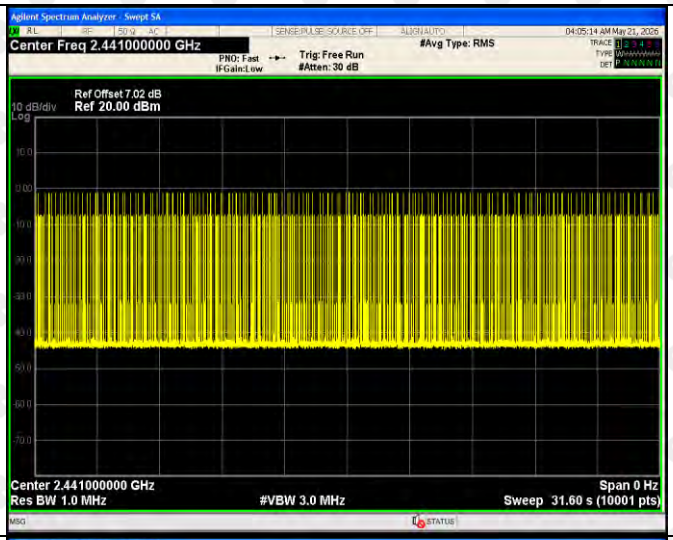
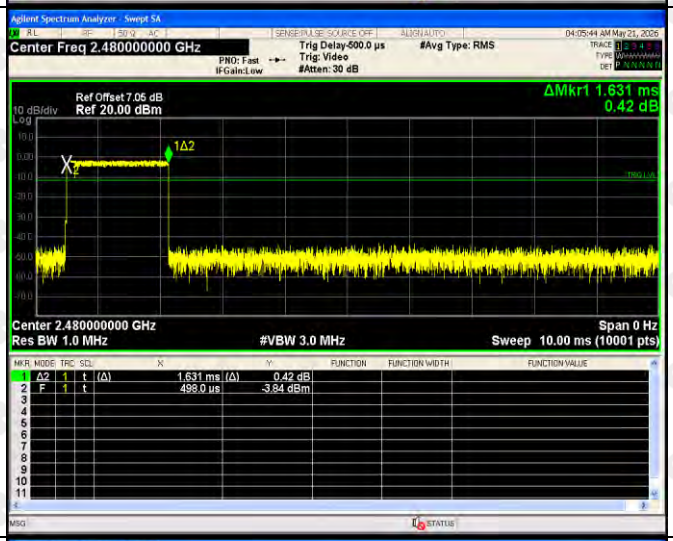
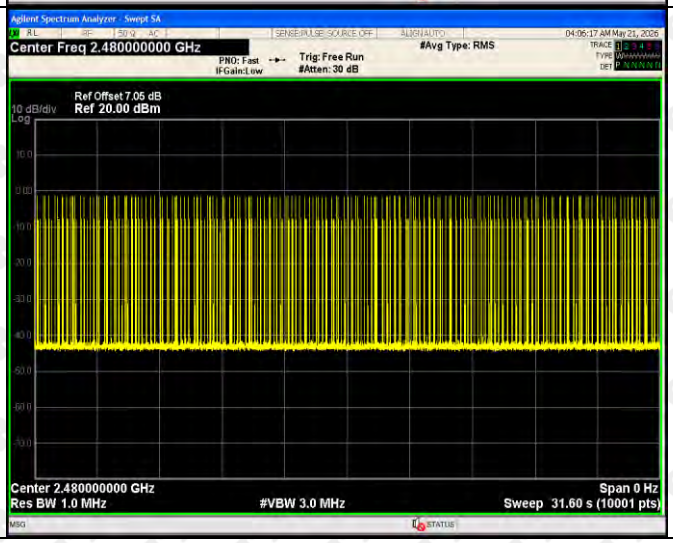
Remark: Dwell time = Pulse time * Total Hops
Remark: Mkr Delta is once pulse time.

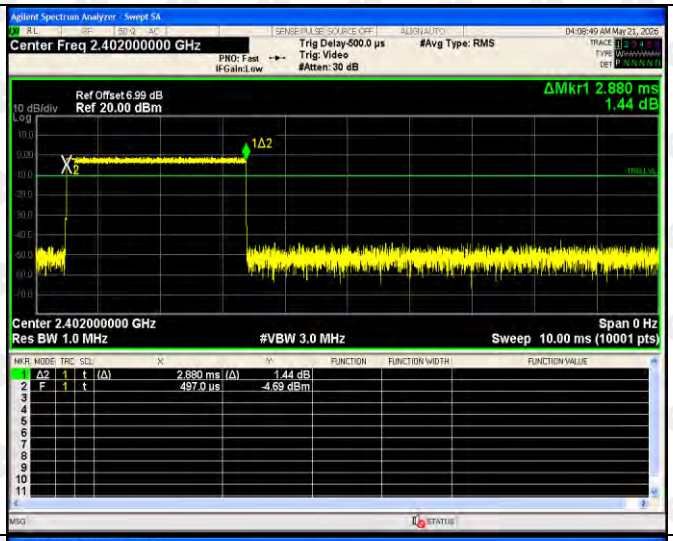
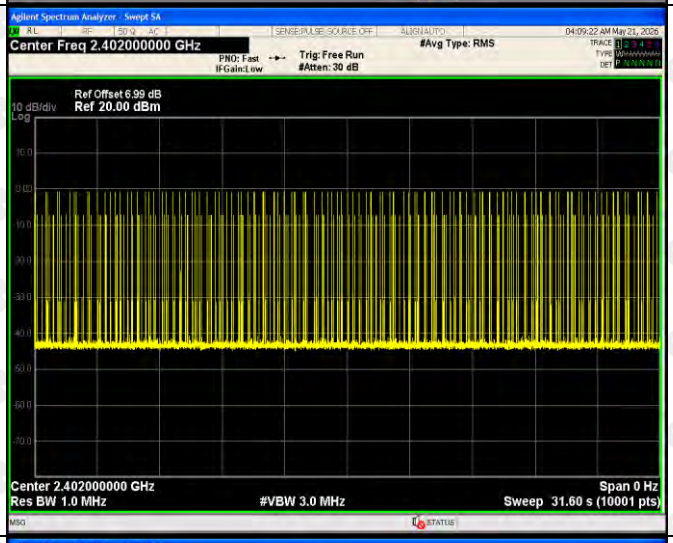
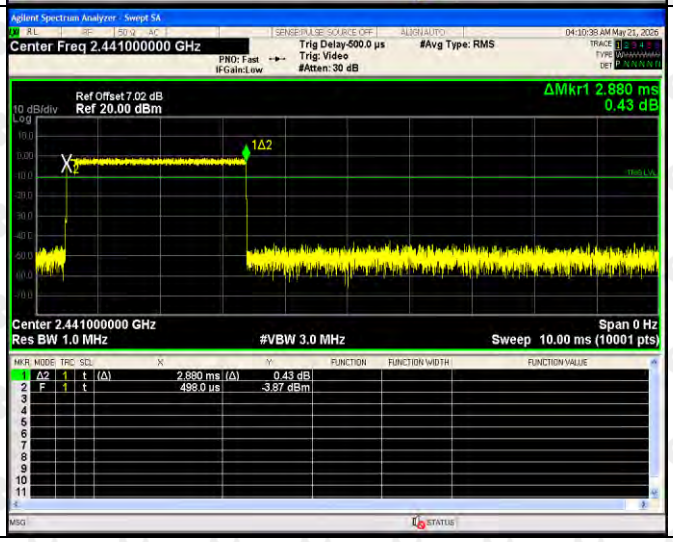
Test Graph

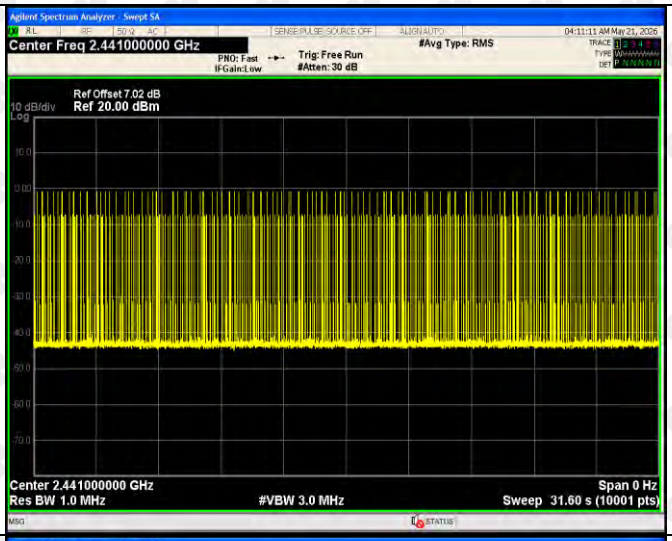
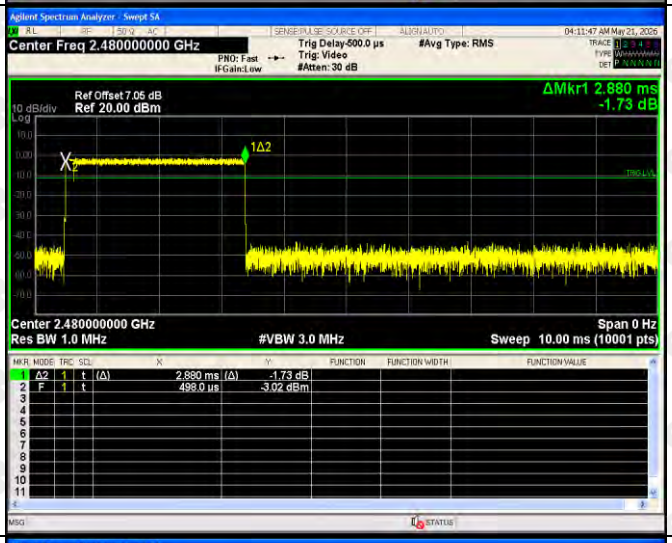
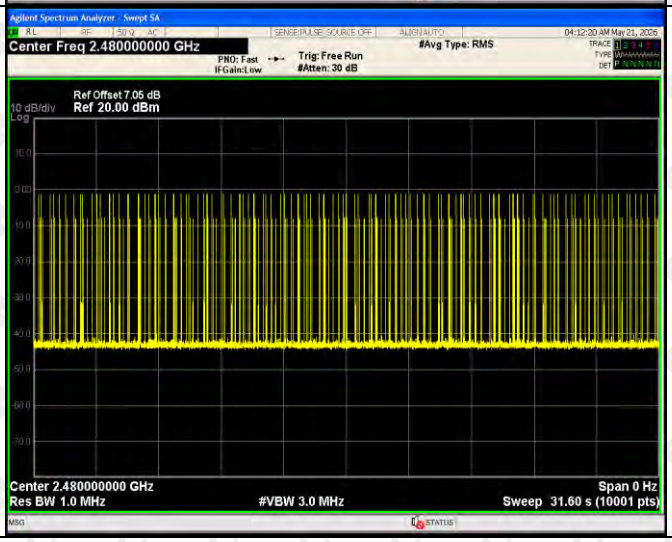
Graphs		
GFSK_1DH1/LCH-One Burst		
GFSK_1DH1/LCH-Accumulated		
GFSK_1DH1/MCH-One Burst		

GFSK_1DH1/MCH-Accumulated		
GFSK_1DH1/HCH-One Burst		
GFSK_1DH1/HCH-Accumulated		

π/4 DQPSK _2DH3 /LCH- One Burst			
π/4 DQPSK _2DH3 /LCH- Accumulated			
π/4 DQPSK _2DH3 /MCH- One Burst			

π/4 DQPSK _2DH3 /MCH- Accumulated		
π/4 DQPSK _2DH3 /HCH- One Burst		
π/4 DQPSK _2DH3 /HCH- Accumulated		

8DPSK _3DH5/LCH-One Burst			
8DPSK _3DH5/LCH-Accumulated			
8DPSK _3DH5/MCH-One Burst			

8DPSK _3DH5/MCH-Accumulated			
8DPSK _3DH5/HCH-One Burst			
8DPSK _3DH5/HCH-Accumulated			

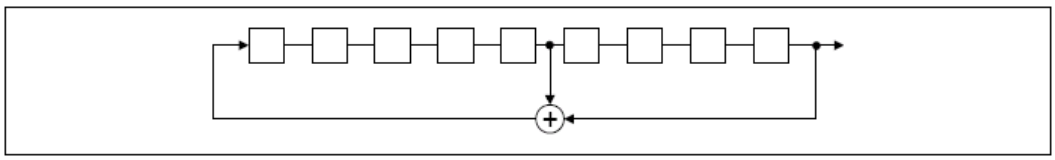
14. PSEUDORANDOM FREQUENCY

14.1 Limit

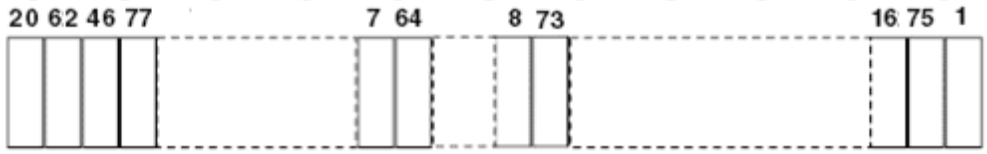
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.
Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. 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.

14.2 Test procedure

The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.
• Number of shift register stages: 9
• Length of pseudo-random sequence: 29 -1 = 511 bits
• Longest sequence of zeros: 8 (non-inverted signal)



An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.
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.

14.3 Test Result

The device does not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

15. ANTENNA REQUIREMENT

15.203 requirement:
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, 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.
15.247(b) (4) requirement:
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.

EUT Antenna:
The antenna is FPC antenna. The best case gain of the antenna is 2.35dBi.

16. EUT TEST SETUP PHOTOGRAPHS

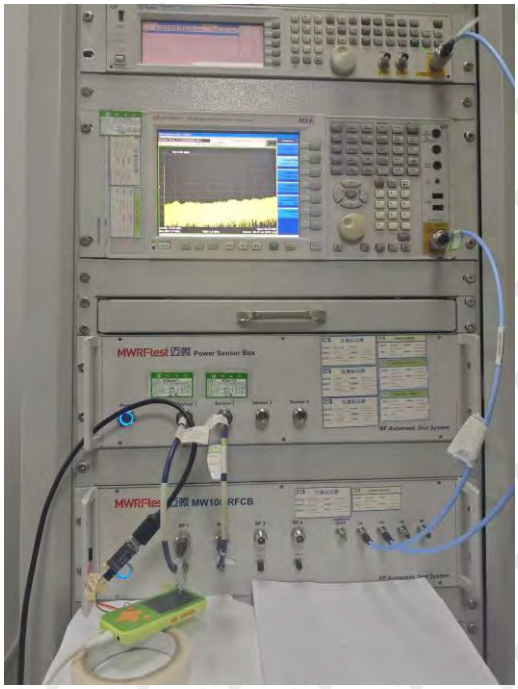
Radiated Emission

Below 1G

Above 1G

Conducted emissions

RF Conducted



Model: PiP Core

Radiated Emission

Below 1G

Conducted emissions

Model: PiP Plus

Radiated Emission

Below 1G

Conducted emissions

Model: PiP Pro

Radiated Emission

Below 1G

Conducted emissions

Model: PiP Max

Radiated Emission

Below 1G

Conducted emissions

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