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Report No.: SHEM161100734103
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1 Cover Page

RF TEST REPORT

Application No.:	SHEM1611007341CR
Applicant:	Anhui Huami Information Technology Co.,Ltd.
FCC ID:	2AC8UA1612
IC:	21806-A1612
Equipment Under Test (EUT): NOTE: The following sample(s) was/were submitted and identified by the client as	
Product Name:	AMAZFIT PACE
Model No.:	A1612
Standards:	FCC PART 15 Subpart C: 2015 RSS-247 Issue 1 (May 2015) RSS-Gen Issue 4 (November 2014)
Date of Receipt:	2016-11-16
Date of Test:	2016-11-16 to 2016-11-30
Date of Issue:	2016-12-23
Test Result:	Pass*

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.



Parlam Zhan
E&E Section Manager
SGS-CSTC (Shanghai) Co., Ltd.



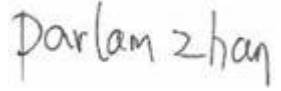
The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00	/	2016-12-23	/	Original

Authorized for issue by:			
Engineer	Eddy Zong		
	Print Name		
Clerk	Vincent Zhu		
	Print Name		
Reviewer	Parlam Zhan		
	Print Name		

3 Test Summary

Test Item	FCC Requirement	IC Requirement	Test method	Result
Antenna Requirement	FCC Part 15, Subpart C Section 15.203/15.247 (c)	RSS-Gen Section 8.1.3	---	PASS
AC Power Line Conducted Emission	FCC Part 15, Subpart C Section 15.207	RSS-Gen Section 8.8	ANSI C63.10 (2013) Section 6.2	N/A
20dB Occupied Bandwidth	FCC Part 15, Subpart C Section 15.247 (a)(1)	RSS-247 Clause 5.1(1)	ANSI C63.10 (2013) Section 6.9.2	PASS
Conducted Peak Output Power	FCC Part 15, Subpart C Section 15.247 (b)(1)	RSS-247 Clause 5.4(2)	ANSI C63.10 (2013) Section 7.8.5	PASS
Carrier Frequencies Separation	FCC Part 15, Subpart C Section 15.247 (a)(1)	RSS-247 Clause 5.1(2))	ANSI C63.10 (2013) Section 7.8.2	PASS
Hopping Channel Number	FCC Part 15, Subpart C Section 15.247 (a)(1)	RSS-247 Clause 5.1(3)	ANSI C63.10 (2013) Section 7.8.3	PASS
Dwell Time	FCC Part 15, Subpart C Section 15.247 (a)(1)	RSS-247 Clause 5.1(4)	ANSI C63.10 (2013) Section 7.8.4	PASS
Conducted Spurious Emissions and Band- edge	FCC Part 15, Subpart C Section 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 7.8.6&7.8.8	PASS
Radiated Spurious Emissions and Band- edge	FCC Part 15, Subpart C Section 15.209&15.205	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 6.4&6.5&6.6&6.10	PASS
99% Occupied Bandwidth	---	RSS-Gen Section 6.6	RSS-Gen section 6.6	PASS

Note: N/A:The BT function of EUT no working in charging mode; therefore the AC Conducted Emission test is not applicable.

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5 General Information

5.1 Client Information

Applicant:	Anhui Huami Information Technology Co.,Ltd.
Address of Applicant:	Building A4, 12 th Floor, No.800 Wangjiang Road, Hefei, China(230088)
Manufacturer:	Anhui Huami Information Technology Co.,Ltd.
Address of Manufacturer:	Building A4, 12 th Floor, No.800 Wangjiang Road, Hefei, China(230088)
Factory:	Anhui Huami Information Technology Co.,Ltd.
Address of Factory:	Building A4, 12 th Floor, No.800 Wangjiang Road, Hefei, China(230088)

5.2 General Description of E.U.T.

Brand Name:	Amazfit
Product Description:	Portable product with BTi function
Rechargeable Batteries:	DC 3.8V by Built-in lithium-ion polymer battery (280mAH) Supply the EUT with fully charged battery during the testing.
Charging Voltage:	DC 5V via USB port

5.3 Technical Specifications

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	BT 4.0 Classic mode
Modulation Technique:	FHSS (GFSK, $\pi/4$ DQPSK, 8DPSK)
Number of Channel:	79
Antenna Type	Integral
Antenna Gain	-3.5 dBi

5.4 Description of Support Units

The EUT has been tested with support equipments as below.

Software name	Manufacturer	Version	Supplied By
Laptop	Lenovo	ThinkPad X100e	SGS

Software name	Manufacturer	Version	Supplied By
Adb tool	/	/	Client

5.5 Test Mode

Test Mode	Description of Test Mode
Hopping disabled mode	Using test software to control EUT working in continuous transmitting, and select channel and modulation type.
Hopping enabled mode	Using test software to control EUT working in continuous transmitting, and hopping on status.



The packet type used for the final test:

Test Item	Packet Type									Hopping Status	
	DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	Disabled	Enabled
CE	-	-	-	-	-	-	-	-	-	-	-
20dB OBW	-	-	√	-	-	√	-	-	√	√	-
Peak Power	-	-	√	-	-	√	-	-	√	√	-
CFS	-	-	√	-	-	√	-	-	√	-	√
HCN	-	-	√	-	-	√	-	-	√	-	√
Dwell Time	√	√	√	√	√	√	√	√	√	-	√
CSE	-	-	√	-	-	√	-	-	√	√	-
Conducted Band-edge	-	-	√	-	-	√	-	-	√	√	√
RSE & Band-edge	-	-	√	-	-	√	-	-	√	√	-
99% OBW	-	-	√	-	-	√	-	-	√	√	-

5.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

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5.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively.

5.8 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty
1	Radio Frequency	$< \pm 1 \times 10^{-5}$
2	Total RF power, conducted	$< \pm 1.5 \text{ dB}$
3	RF power density, conducted	$< \pm 3 \text{ dB}$
4	Spurious emissions, conducted	$< \pm 3 \text{ dB}$
5	All emissions, radiated	$< \pm 6 \text{ dB}$ (Below 1GHz) $< \pm 6 \text{ dB}$ (Above 1GHz)
6	Temperature	$< \pm 1^{\circ}\text{C}$
7	Humidity	$< \pm 5 \%$
8	DC and low frequency voltages	$< \pm 3 \%$

6 Equipments Used during Test

No.	Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
1	Power Meter	R&S	NRP	SHEM057-1	2016-01-14	2017-01-13
2	Power Meter Sensor	R&S	NRP-Z22	SHEM136-1	2016-08-12	2017-08-11
3	Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2016-01-14	2017-01-13
4	EMI Receiver	R&S	ESU40	SHEM051-1	2016-01-16	2017-01-15
5	EMI Receiver	R&S	ESR7	SHEM162-1	2016-01-14	2017-01-13
6	LISN	SCHWARZBECK	NSLK8127	SHEM061-1	2016-01-14	2017-01-13
7	LISN	EMCO	3816/2	SHEM019-1	2016-01-14	2017-01-13
8	Loop Antenna (9kHz to 30MHz)	R&S	FMZB1519	SHEM135-1	2016-01-18	2017-01-17
9	Broadband Antenna (25MHz to 2GHz)	SCHWARZBECK	VULB9168	SHEM048-1	2016-01-16	2017-01-15
10	Broadband Antenna (25MHz to 3GHz)	R&S	HL562	SHEM010-1	2016-01-16	2017-01-15
11	Horn Antenna (1GHz to 18GHz)	R&S	HF906	SHEM009-1	2016-01-16	2017-01-15
12	Horn Antenna (1GHz to 18GHz)	SCHWARZBECK	BBHA9120D	SHEM050-1	2016-01-16	2017-01-15
13	Horn Antenna (14GHz to 40GHz)	SCHWARZBECK	BBHA 9170	SHEM049-1	2016-01-16	2017-01-15
14	Pre-amplifier (9kHz – 2GHz)	TESEQ	LNA6900	SHEM074-1	2016-01-14	2017-01-13
15	Pre-amplifier (1GHz – 26.5GHz)	SCHWARZBECK	F0118-G40-BZ4	SHEM049-2	2016-01-14	2017-01-13
16	Pre-amplifier (14GHz – 40GHz)	SCHWARZBECK	F1840-G35-BZ3	SHEM050-2	2016-01-14	2017-01-13
17	Low Pass Filter	Mini-Circuits	VLF-2500	SHEM114-1		
18	High Pass Filter	LORCH	5BRX-2400	SHEM155-1	/	/
19	High-low Temperature Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2016-08-15	2017-08-14
20	AC Power Stabilizer	WOCEN	6100	SHEM045-1	2016-01-14	2017-01-13
21	DC Power Supply	QJE	QJ30003SII	SHEM046-1	2016-01-14	2017-01-13
22	Signal Generator (Interferer)	R&S	SMR40	SHEM058-1	2016-08-12	2017-08-11
23	Signal Generator (Blocker)	R&S	SMJ100A	SHEM141-1	2016-01-14	2017-01-13
24	Splitter	ANRITSU CORP	MA1612A	SHEM159-1	/	/
25	Coupler	Mini-Circuits	803-S-1	SHEM113-1	/	/

7 Test Results

7.1 E.U.T. test conditions

Requirements: 15.31(e) For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

Operating Environment:	Temperature:	20.0 -25.0 °C
	Humidity:	35-75 % RH
	Atmospheric Pressure:	99.2 -102 kPa

Test frequencies: According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 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

Pursuant to Part 15.31(c) For swept frequency equipment, measurements shall be made with the frequency sweep stopped at those frequencies chosen for the measurements to be reported.

Test frequency is the lowest channel: 0 channel (2402MHz), middle channel: 39 channel (2441MHz) and highest channel: 78 channel (2480MHz) with fixed at channel.

7.2 Frequency Hopping System Requirement

Test Requirement: Section 15.247 (a)(1), (g), (h) requirement:

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.

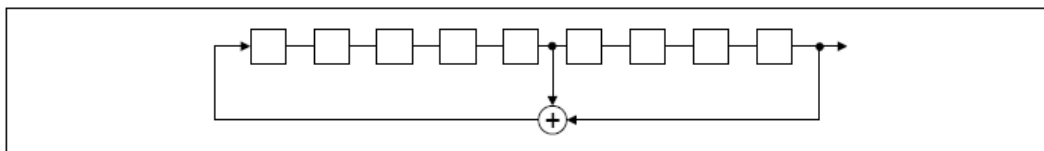
Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1)

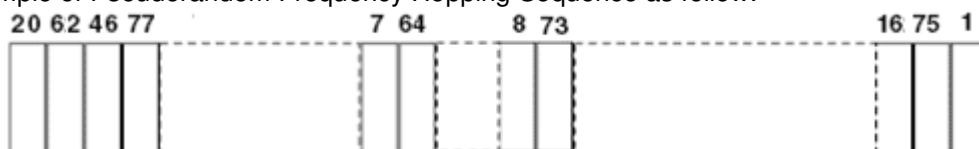
According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g)

According to Bluetooth Core Specification, the Bluetooth system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinate with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

7.3 Antenna Requirement

Standard requirement:

15.203 requirement:

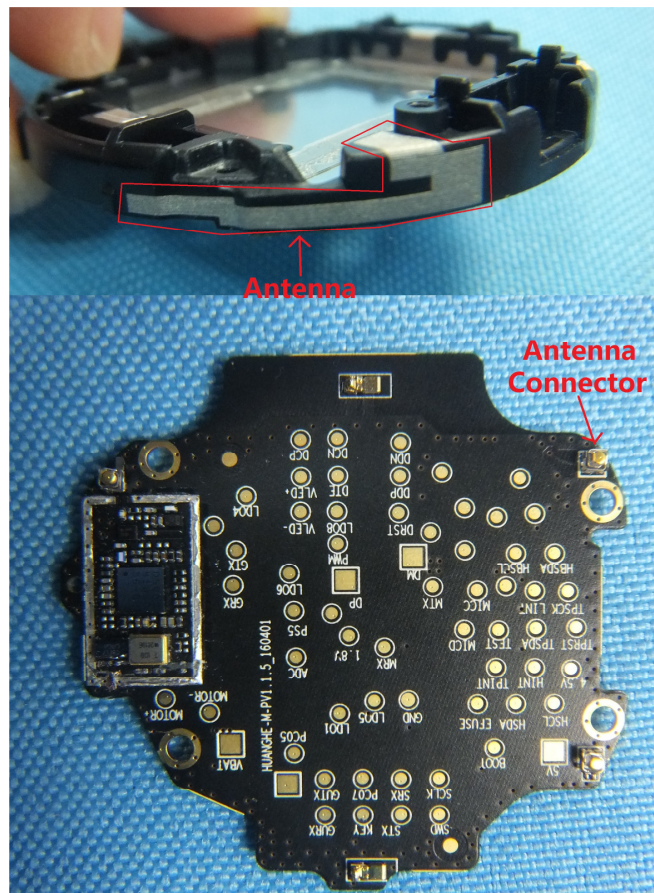
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 BT antenna is integral antenna and no consideration of replacement. The gain of the antenna is less than -3.5 dBi.



7.4 Conducted Emissions on Mains Terminals

Frequency Range: 150 KHz to 30 MHz

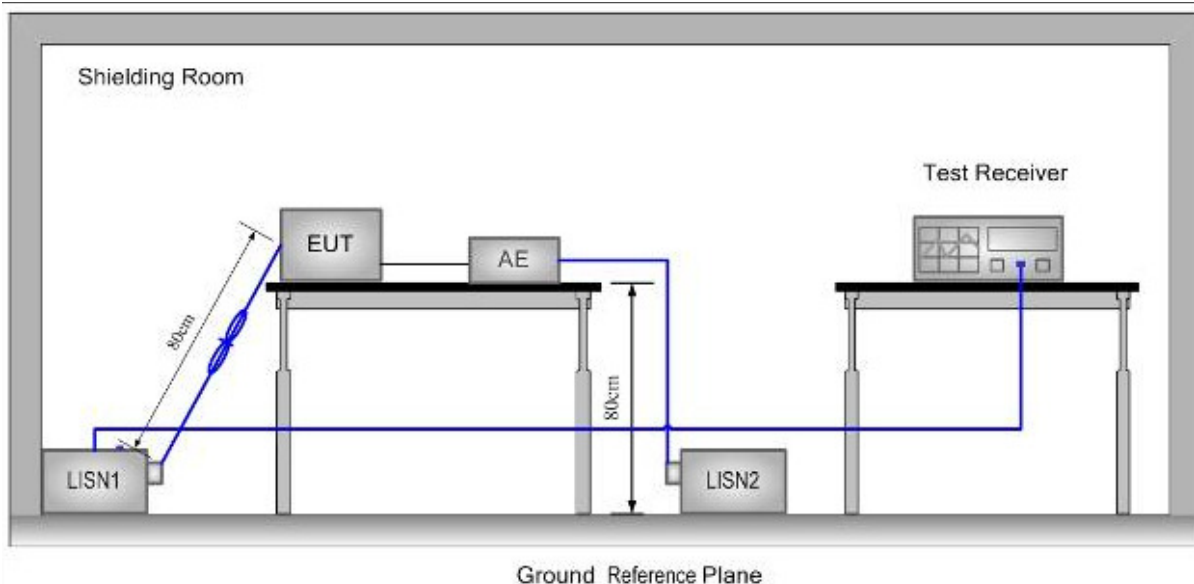
Limit:

Frequency range MHz	Class B Limits: dB (μV)	
	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

Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

Note2: The lower limit is applicable at the transition frequency.

Test Setup:



Test Procedure:

- 1) The mains terminal disturbance voltage was measured with the EUT in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN 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, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 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 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated



equipment were at least 0.8 m from the LISN.

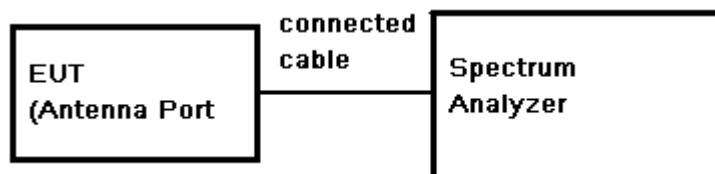
Remark: Pre-scan was performed with peak detected on all ports, Quasi-peak & average measurements were performed at the frequencies at which maximum peak emission level were detected. Pretest under all modes; choose the worst case mode (GFSK and Hopping enabled mode) record on the report. Please see the attached Quasi-peak and Average test results.

Test Data:

N/A: The BT function of EUT no working in charging mode; therefore the AC Conducted Emission test is not applicable.

7.5 20dB Occupied Bandwidth

Test Configuration:



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: Span = approximately 2 to 5 times the OBW, centred on the hopping channel;
- 3) Set the spectrum analyzer: RBW \geq 1% to 5% of the OBW (set 30 kHz). VBW \geq 3 RBW. Sweep = Auto; Detector = Peak. Trace = Max Hold.
- 4) Mark the peak frequency and -20dB points.

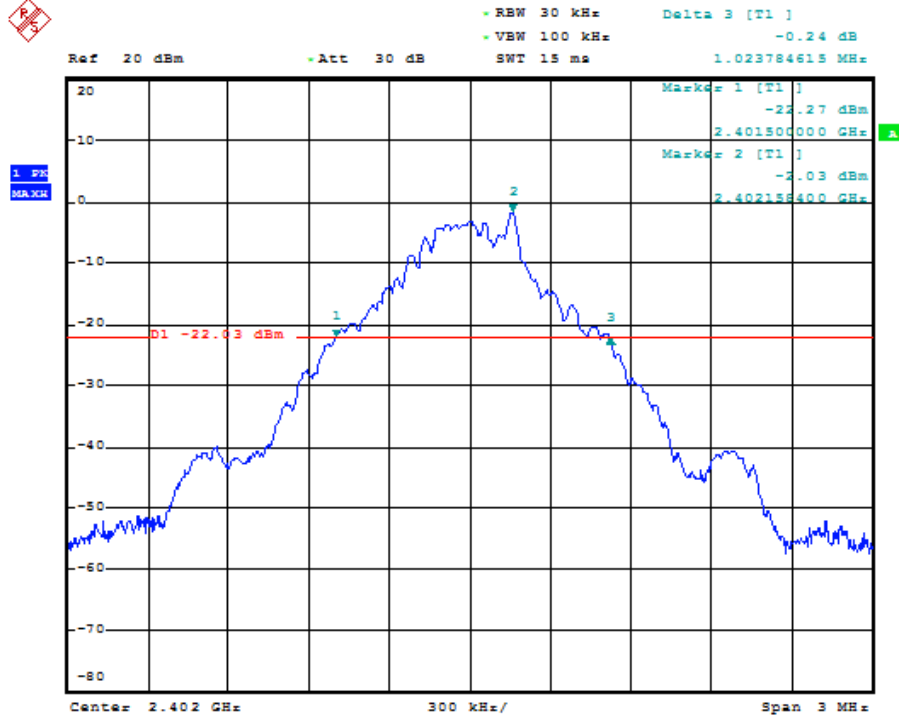
Test Date:

Test Mode	Test Frequency(MHz)	Bandwidth(MHz)
GFSK	2402	1.024
	2441	1.024
	2480	1.024
$\pi/4$ DQPSK	2402	1.077
	2441	1.082
	2480	1.082
8DPSK	2402	1.331
	2441	1.332
	2480	1.332

Test plot as follows:

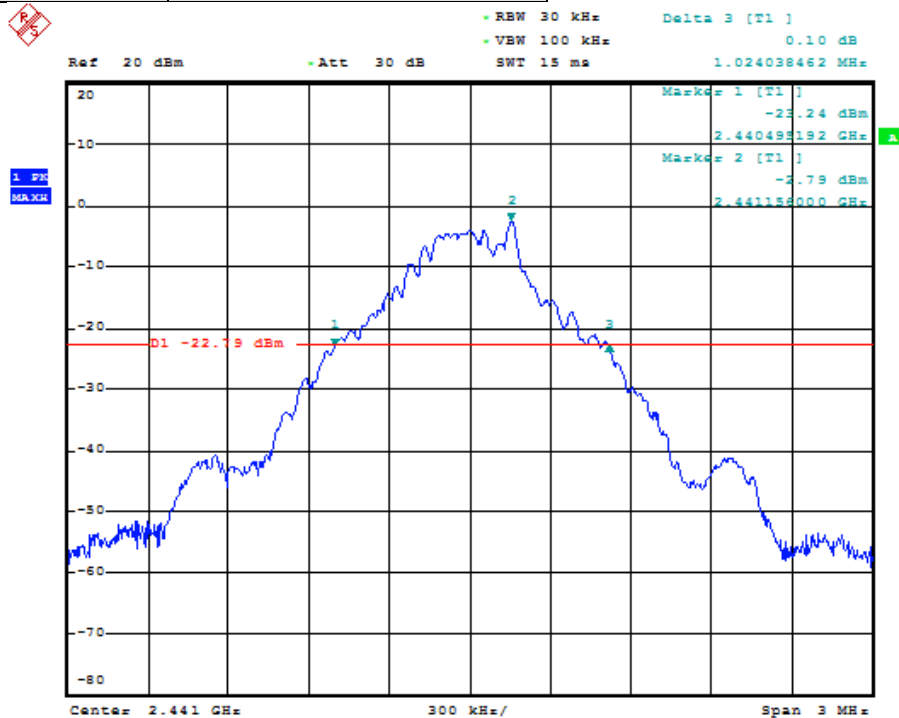
Test mode: GFSK

Test channel: 2402



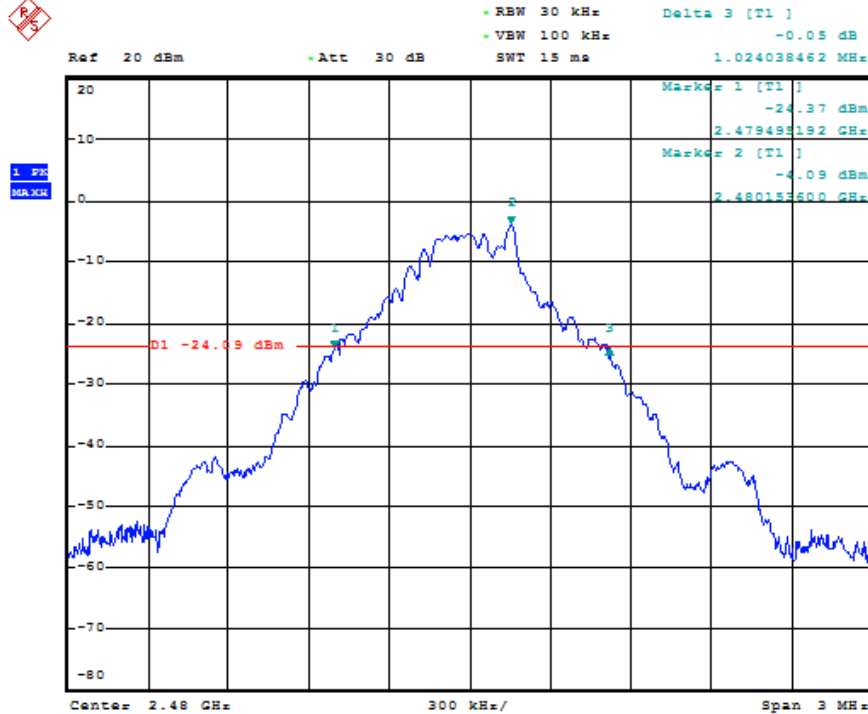
Test mode: GFSK

Test channel: 2441



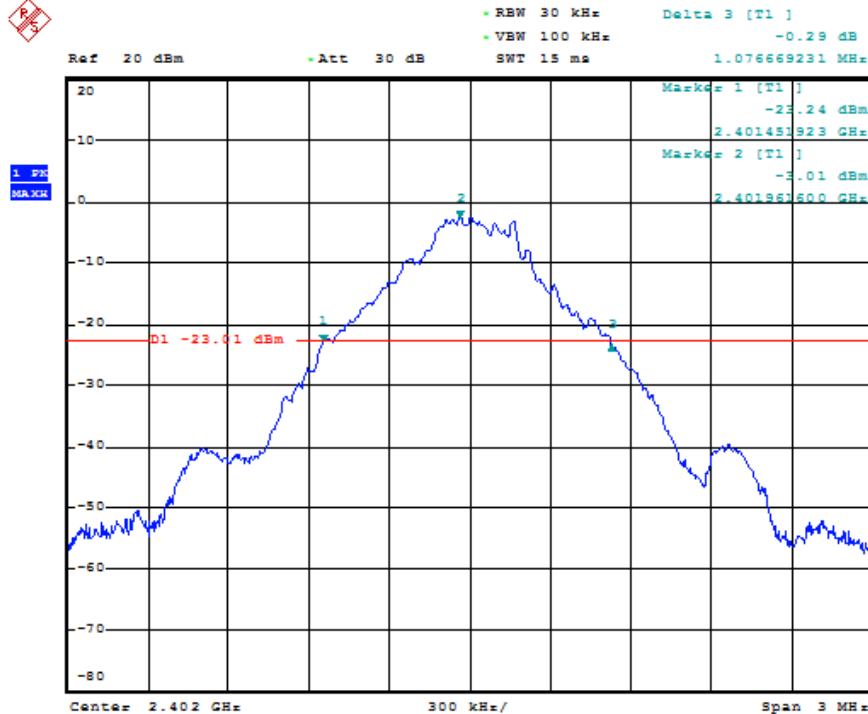
Test mode: GFSK

Test channel: 2480



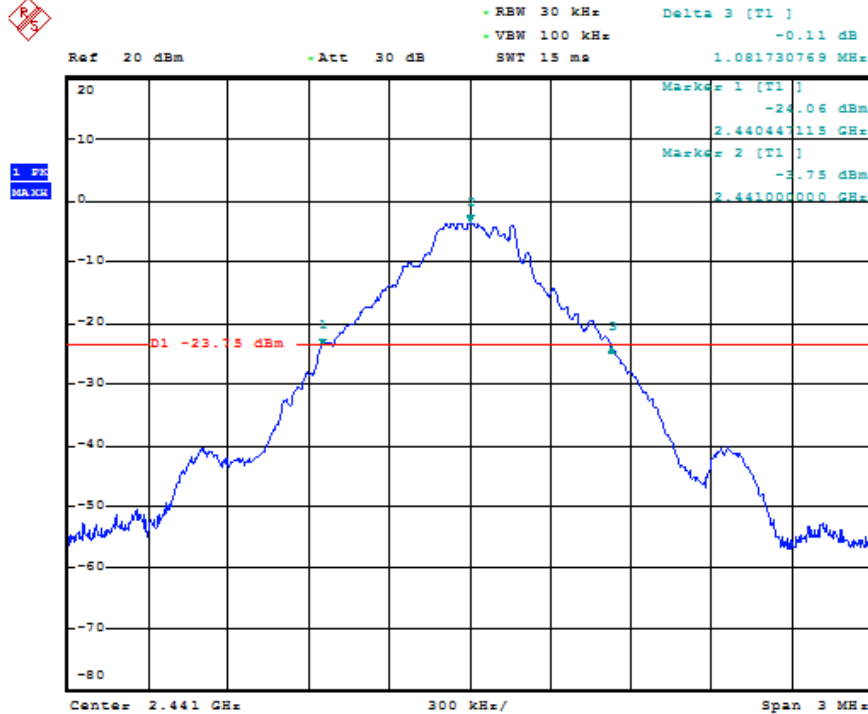
Test mode: $\pi/4$ DQPSK

Test channel: 2402



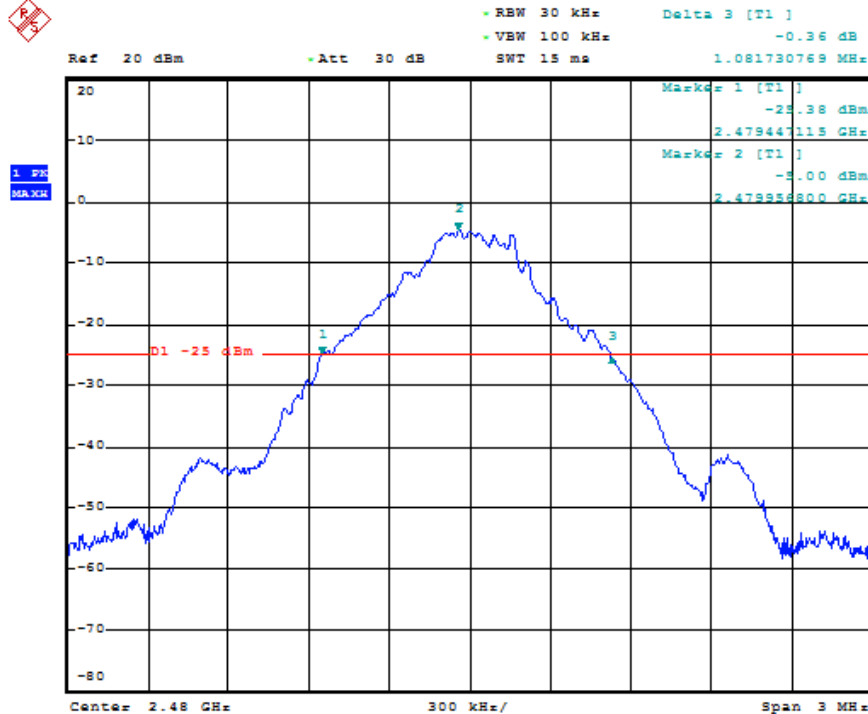
Test mode: $\pi/4$ DQPSK

Test channel: 2441



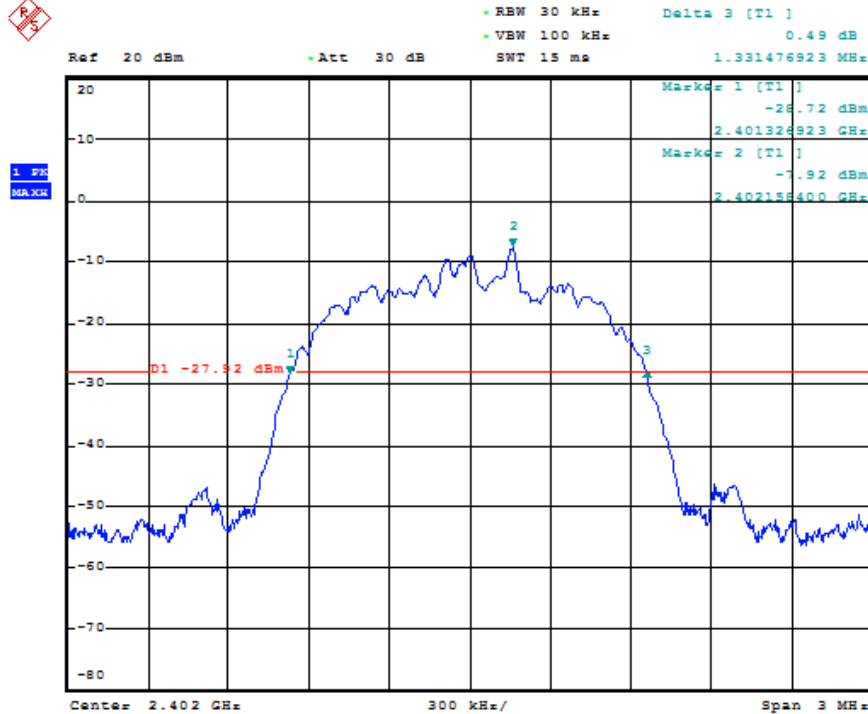
Test mode: $\pi/4$ DQPSK

Test channel: 2480



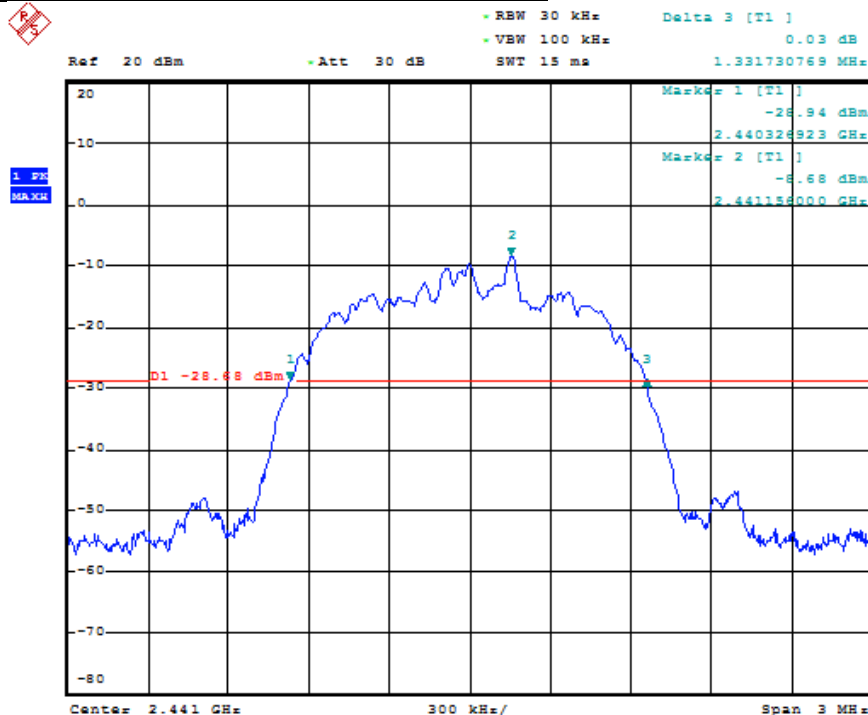
Test mode: 8DPSK

Test channel: 2402



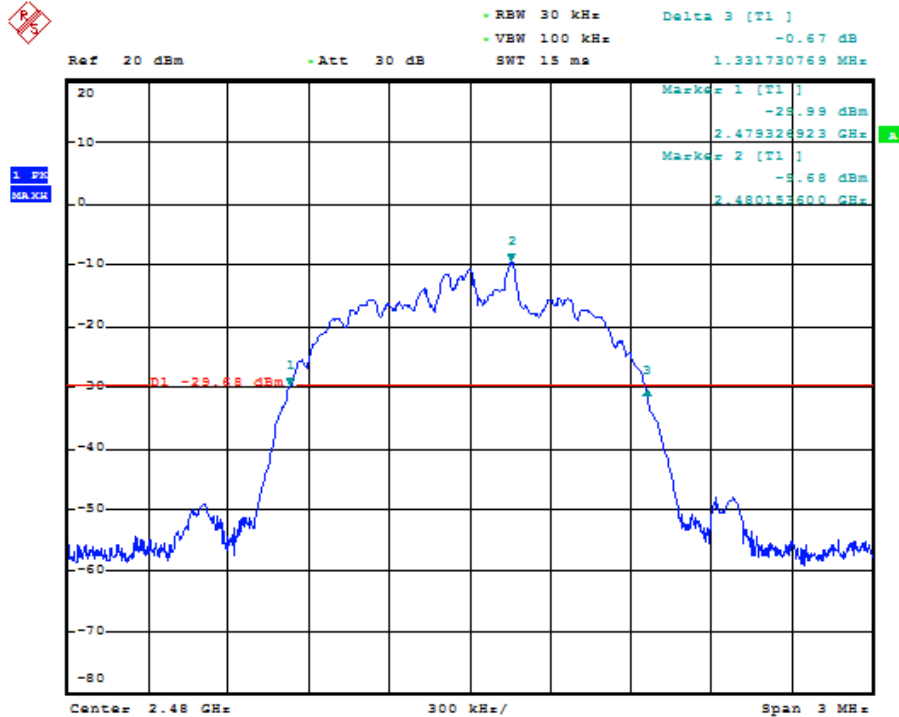
Test mode: 8DPSK

Test channel: 2441



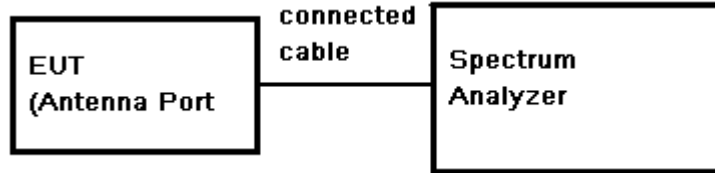
Test mode: 8DPSK

Test channel: 2480



7.6 Conducted Peak Output Power

Test Configuration:



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 = 3 MHz, VBW = 3 MHz, Sweep = auto; Detector Function = Peak.
- 3) Keep the EUT in transmitting at lowest, middle and highest channel individually. Record the max value.

Test Limit:

Regulation 15.247 (b)(1) 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. Refer to the result "Hopping channel number" of this document. The 1 watt (30.0dBm) limit applies.

Test Data:

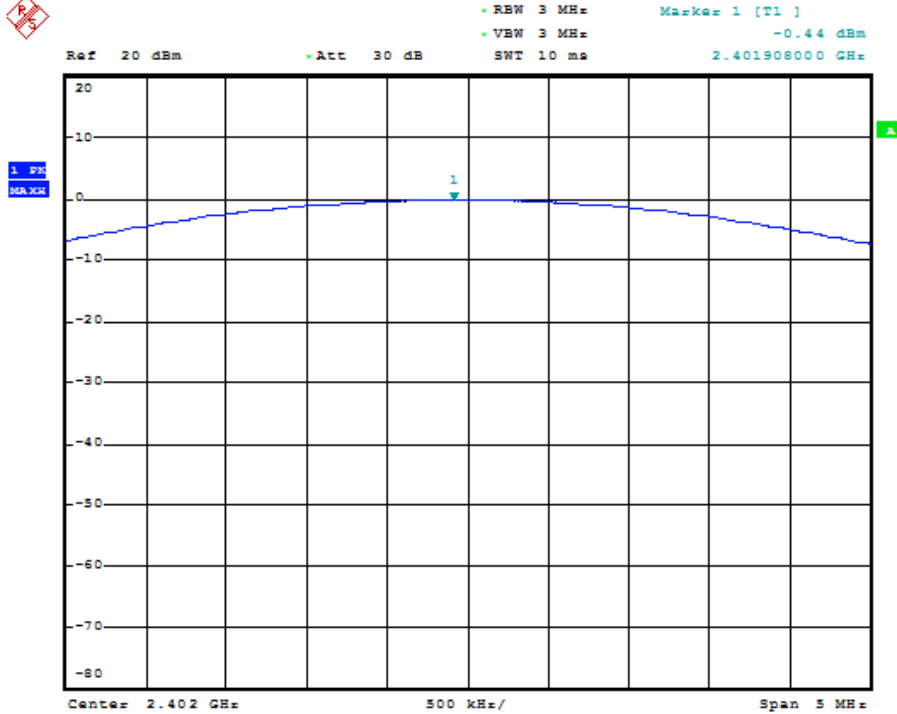
Test Mode	Test Frequency (MHz)	Reading Power (dBm)	Cable Loss (dB)	Output Power (dBm)	Limit (dBm)	Test Result
GFSK	2402	-0.44	0.5	0.06	30	Pass
	2441	-1.13		-0.63		Pass
	2480	-2.41		-1.91		Pass
π/4DQPSK	2402	-0.42		0.08		Pass
	2441	-1.12		-0.62		Pass
	2480	-2.41		-1.91		Pass
8DPSK	2402	-3.57		-3.07		Pass
	2441	-4.28		-3.78		Pass
	2480	-5.26		-4.76		Pass

Remark: Output Power=Reading Power + Cable loss

Test plot as follows:

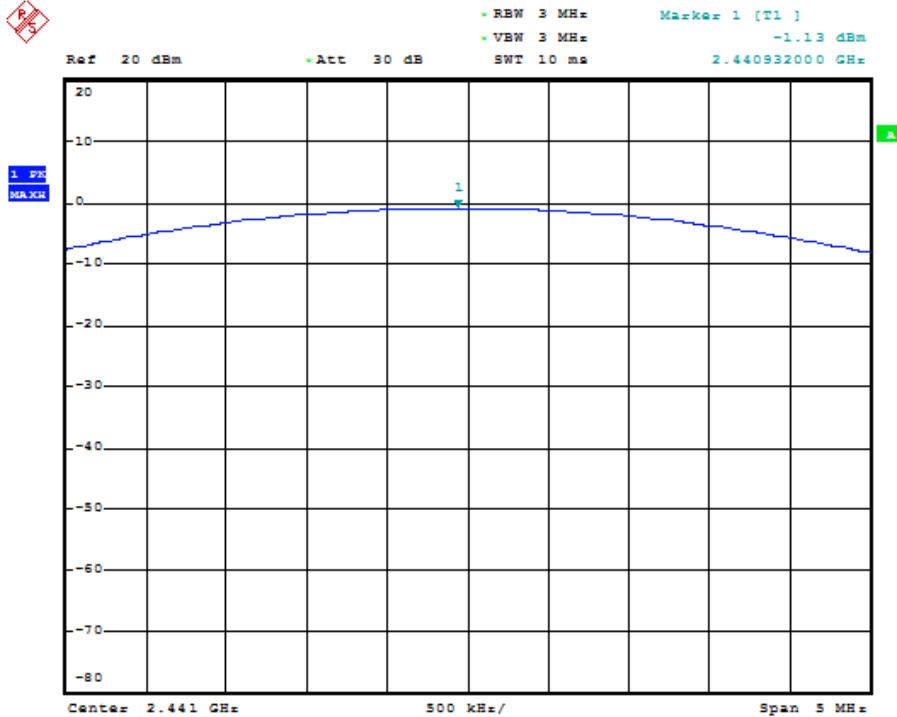
Test mode: GFSK

Test channel: 2402



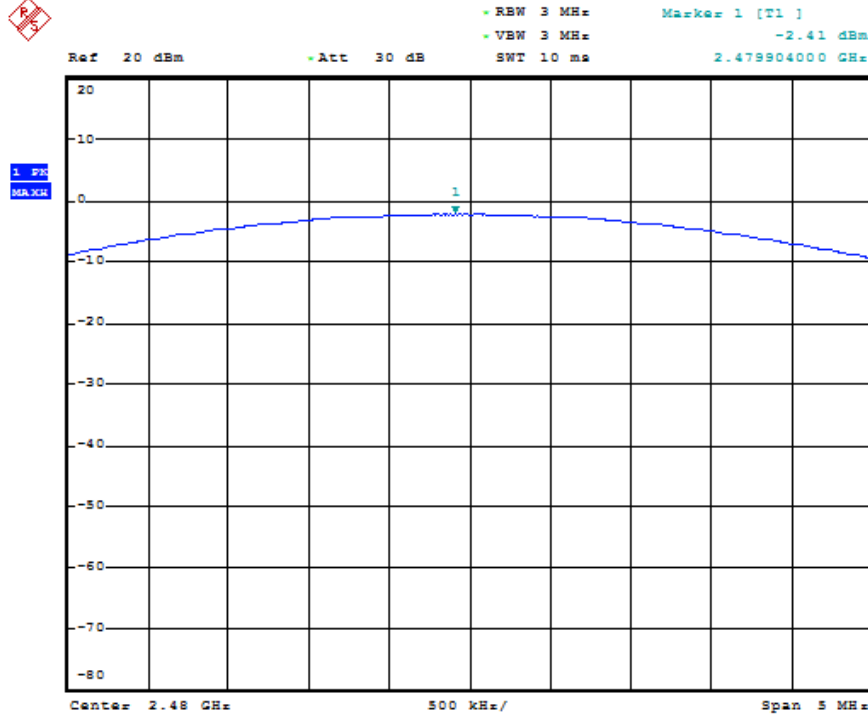
Test mode: GFSK

Test channel: 2441



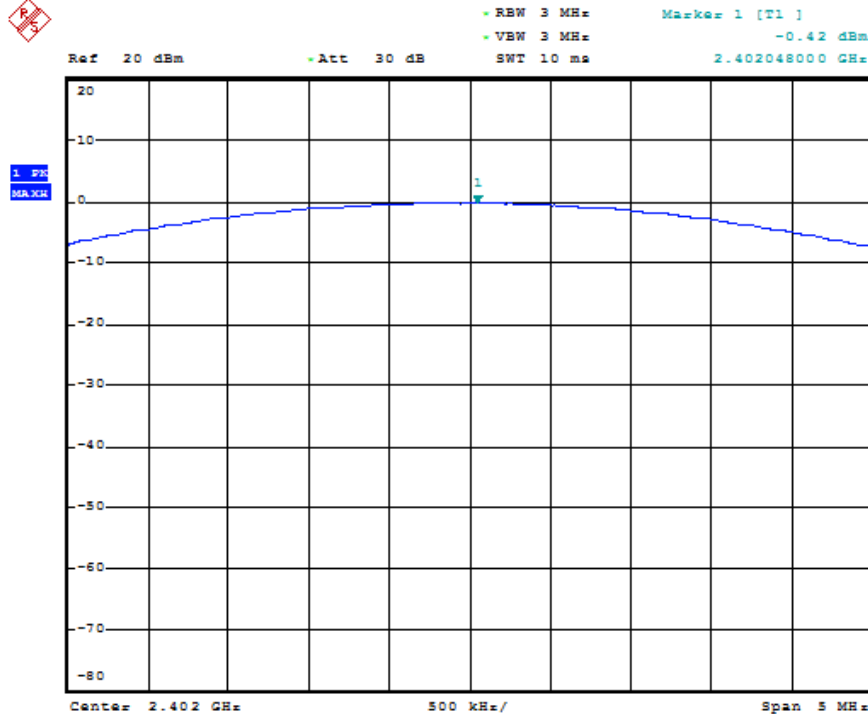
Test mode: GFSK

Test channel: 2480



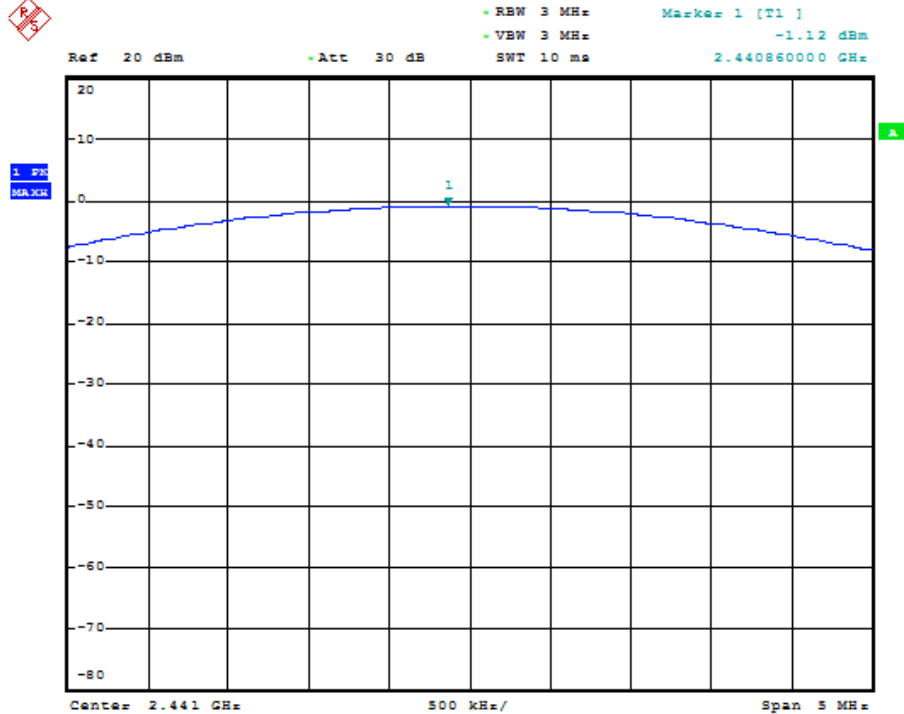
Test mode: $\pi/4$ DQPSK

Test channel: 2402



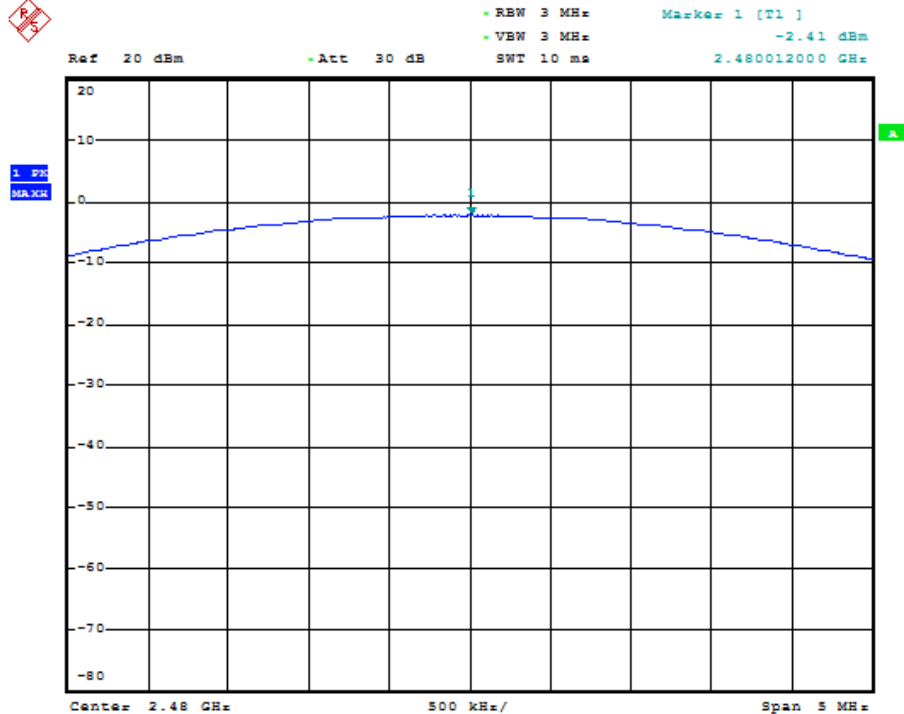
Test mode: $\pi/4$ DQPSK

Test channel: 2441



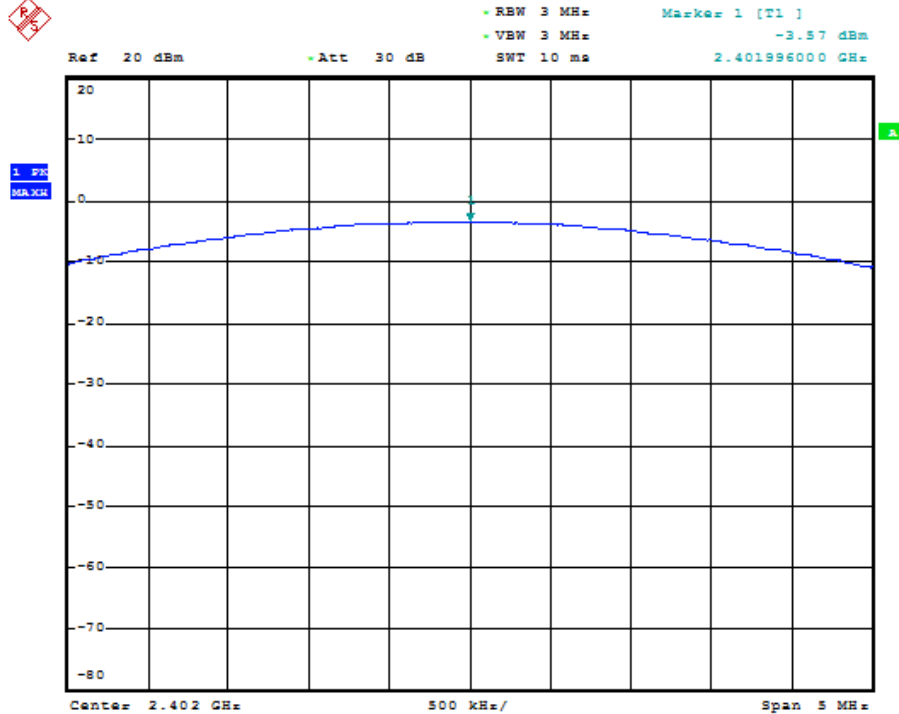
Test mode: $\pi/4$ DQPSK

Test channel: 2480



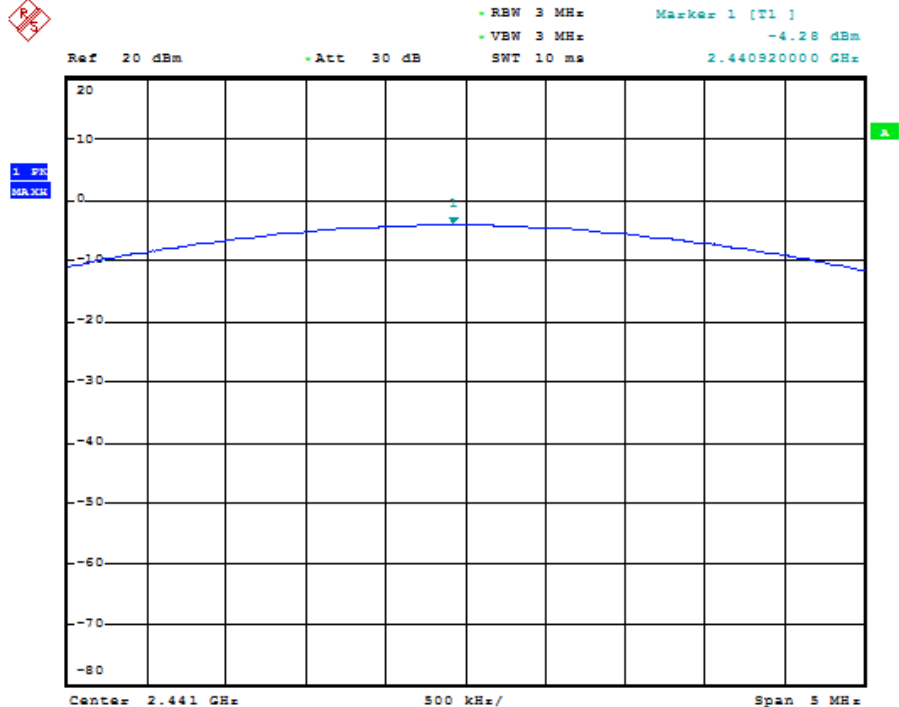
Test mode: 8DPSK

Test channel: 2402



Test mode: 8DPSK

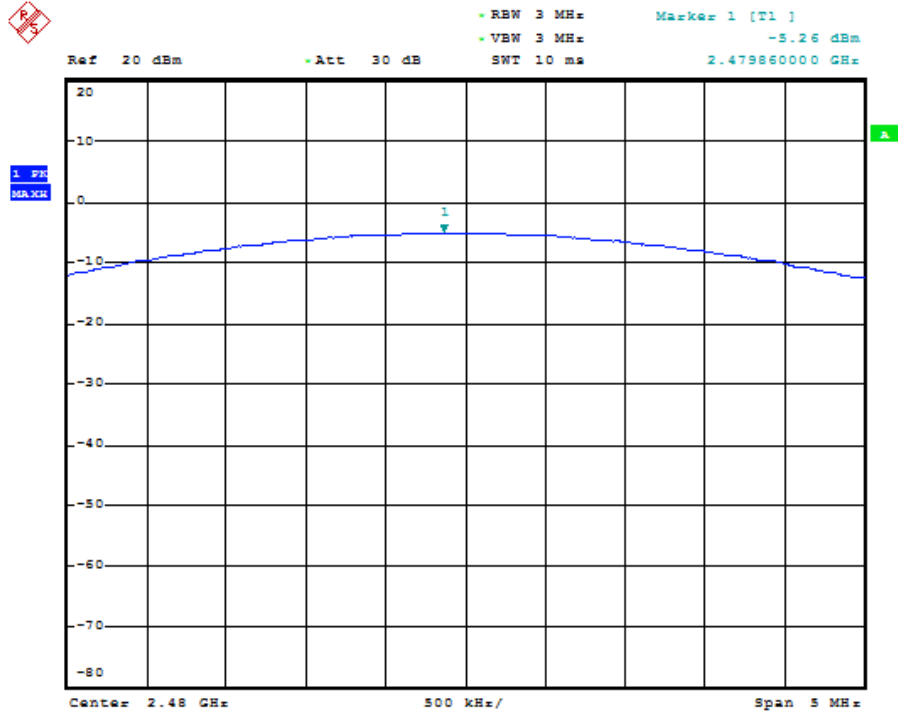
Test channel: 2441





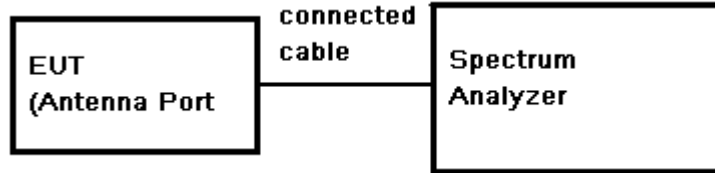
Test mode: 8DPSK

Test channel: 2480



7.7 Carrier Frequencies Separated

Test Configuration:



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 \geq 1% of the span (set 30 kHz). VBW \geq RBW, Span = 3MHz. Sweep = auto; Detector Function = Peak. Trace = Maxhold.
- 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.

Limit:

0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)

Test data:

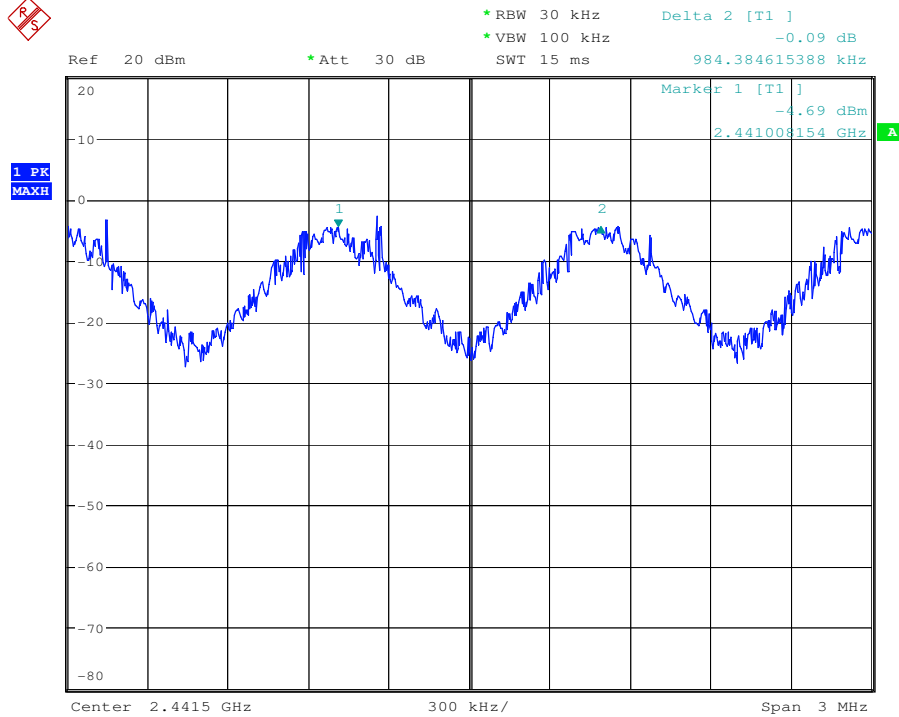
Test Mode	Test Channel	Carrier Frequencies Separated (MHz)	Limit	Test Result
GFSK	Middle Channels (Channel 39 & 40)	0.984	683kHz	Pass
$\pi/4$ DQPSK	Middle Channels (Channel 39 & 40)	0.970	721kHz	Pass
8DPSK	Middle Channels (Channel 39 & 40)	1.002	888kHz	Pass

Remark: 1. According to the section 7.6, the conducted power measured is less than 125mW and 2/3 of 20dB bandwidth is used for limit.
2. 20dB bandwidth reference Section 7.5

Test plot as follows:

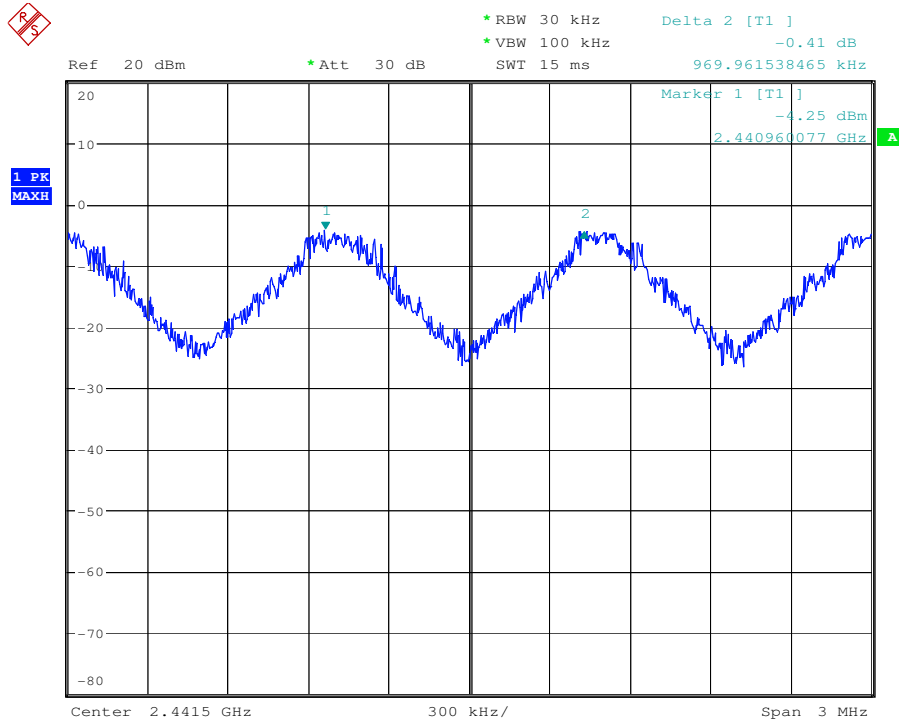
Test mode: GFSK

Test channel: Channel 39 & 40



Test mode: $\pi/4$ DQPSK

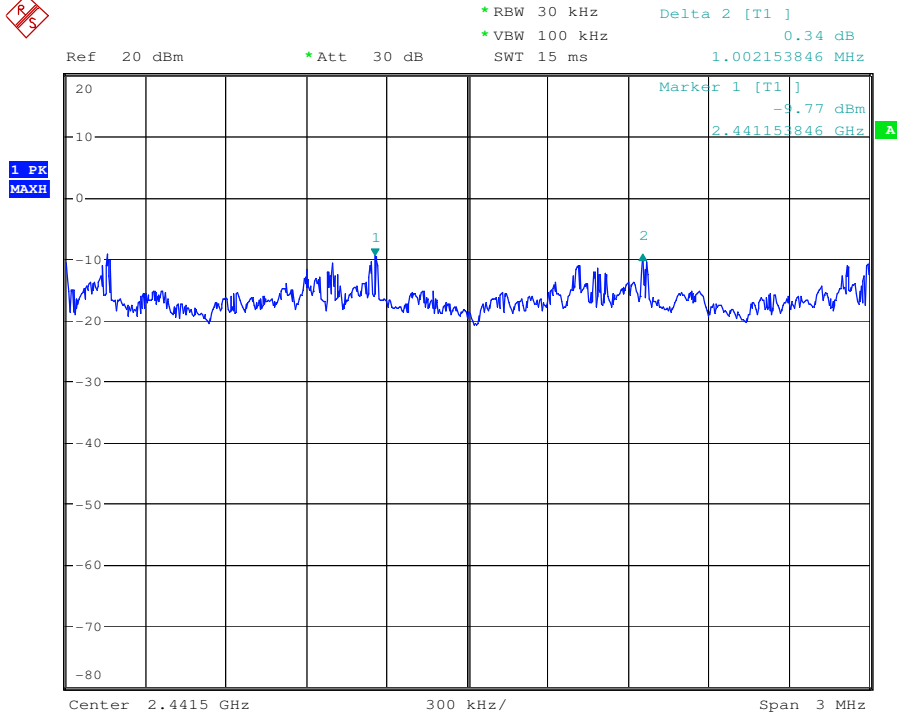
Test channel: Channel 39 & 40





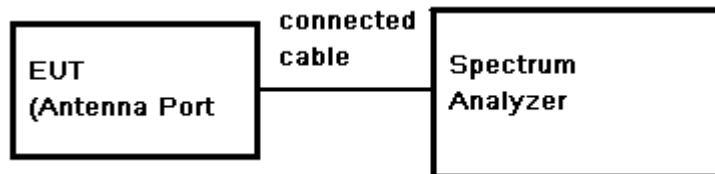
Test mode: 8DPSK

Test channel: Channel 39 & 40



7.8 Hopping Channel Number

Test Configuration:



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 = 100 kHz. VBW = 100 kHz. 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 = 2400MHz. stop frequency = 2483.5MHz. Submit the test result graph.

Limit:

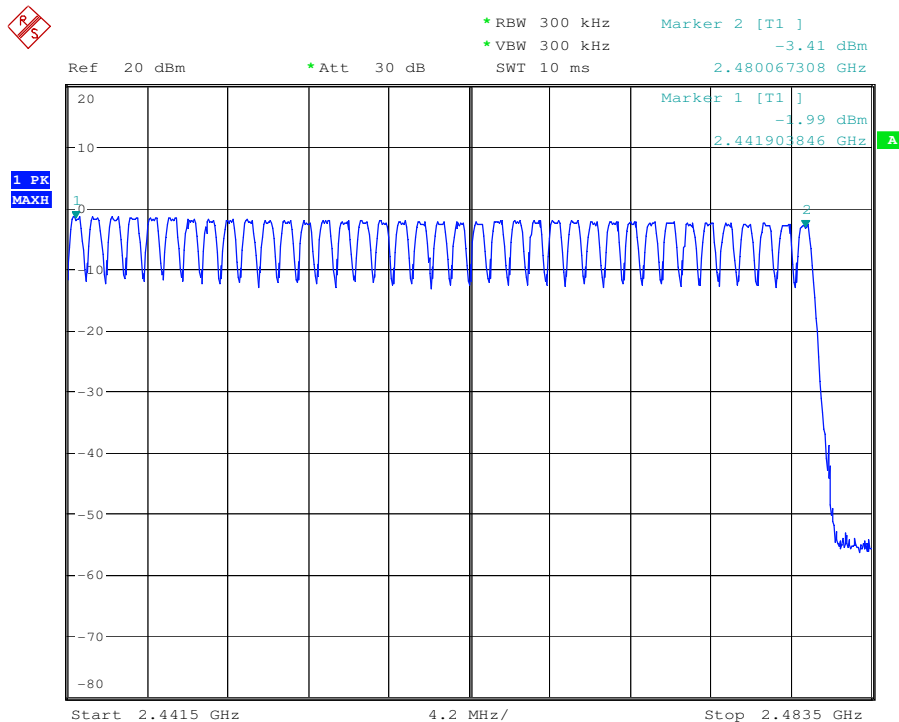
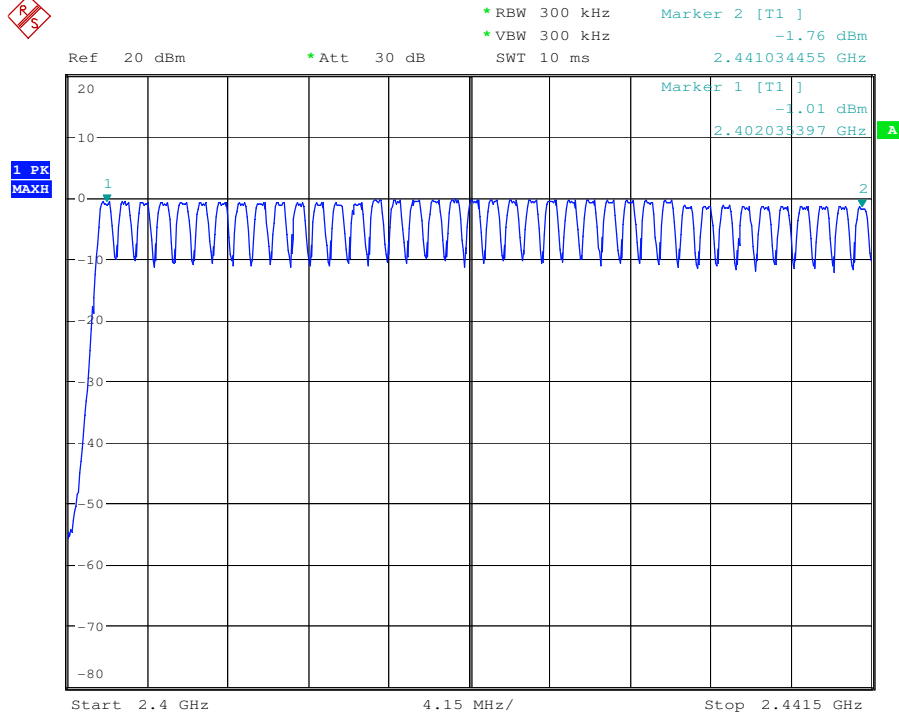
At least 15 channels

Test Data:

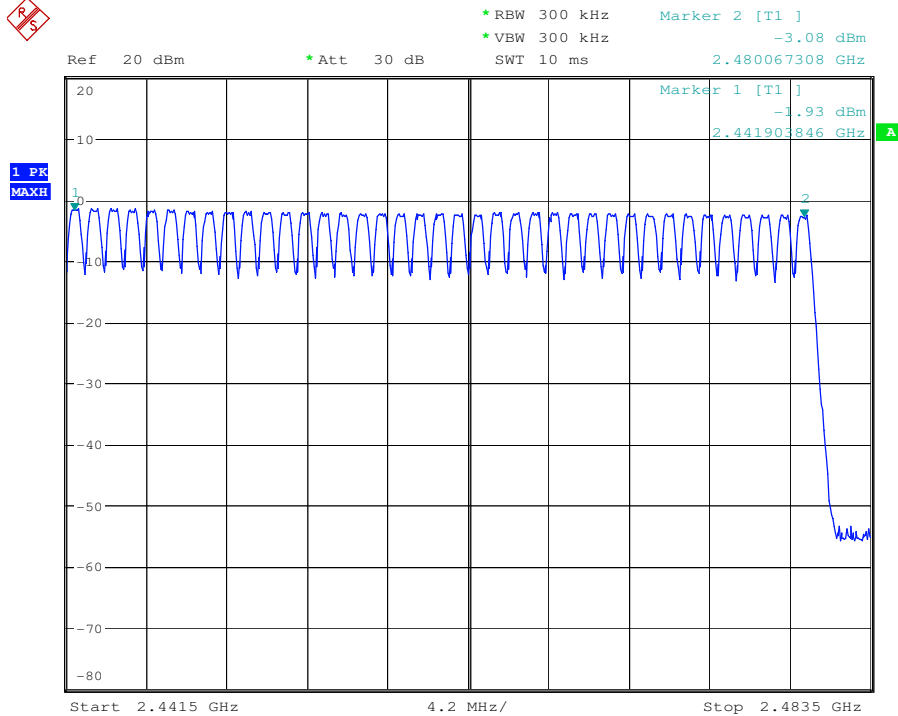
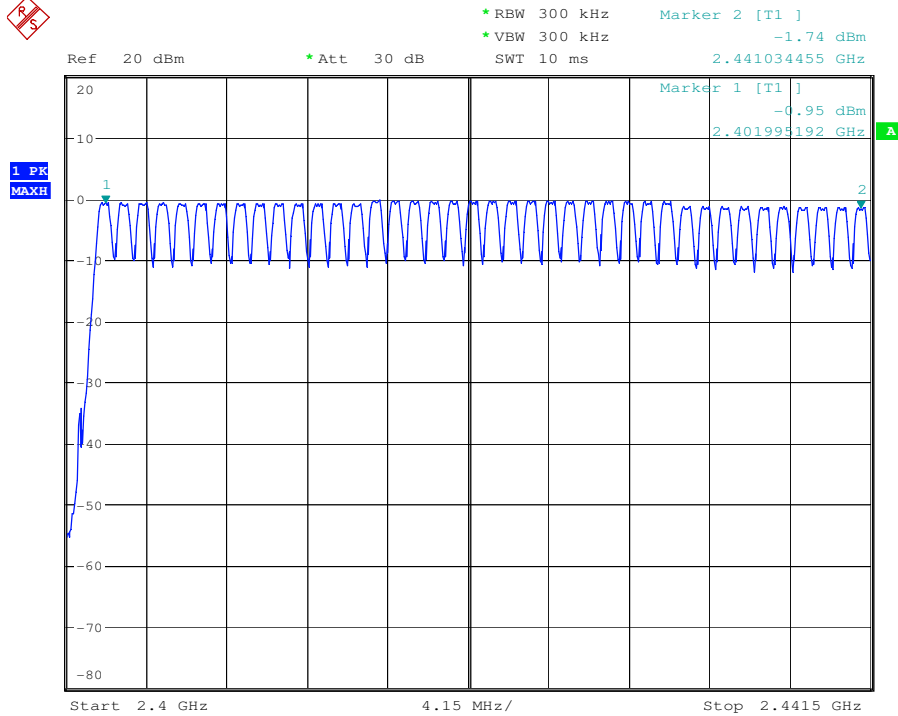
Mode	Hopping channel numbers	Limit	Test Result
GFSK	79	≥15	Pass
π/4DQPSK	79		Pass
8DPSK	79		Pass

Test plot as follows:

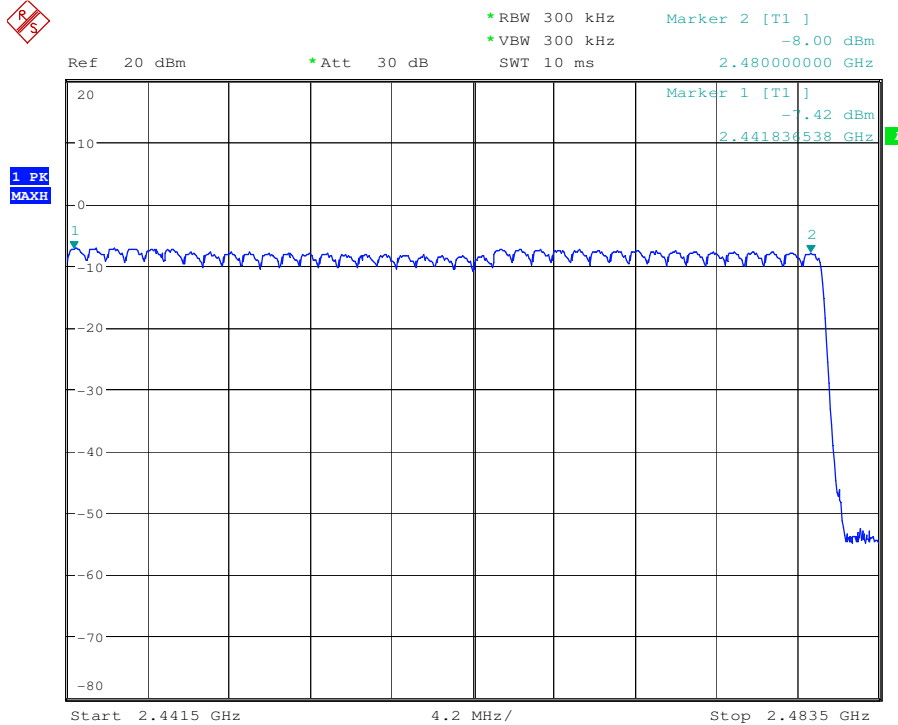
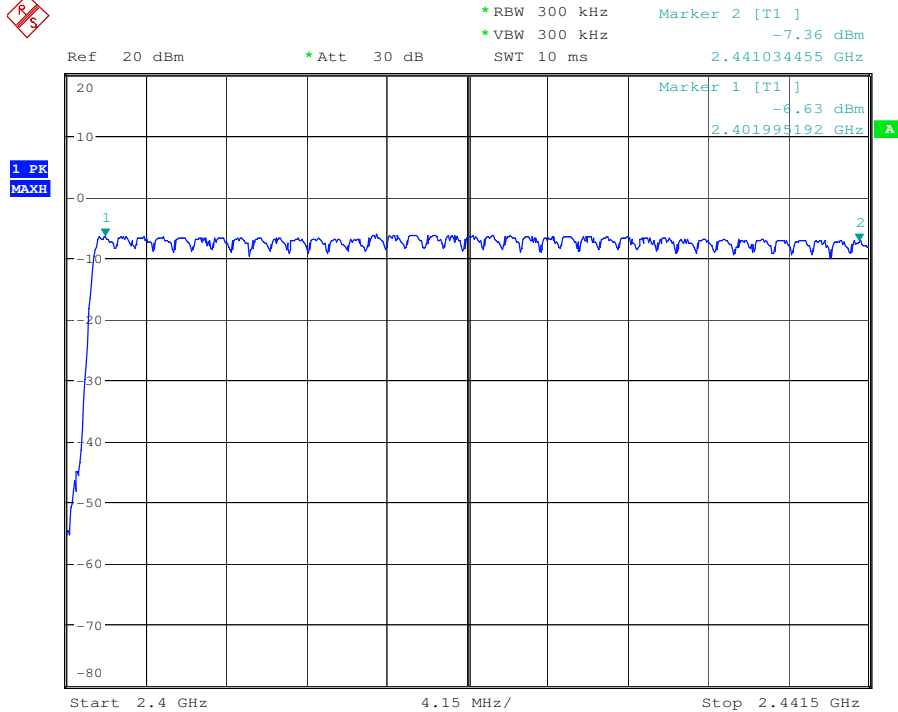
Test mode: GFSK



Test mode: $\pi/4$ DQPSK

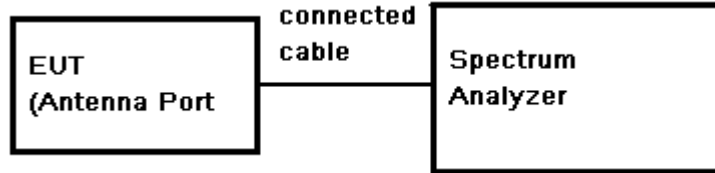


Test mode: 8DPSK



7.9 Dwell Time

Test Configuration:



Test Procedure:

- 1) Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum. Keep EUT in Hopping transmitting with all kind of modulation.
- 2) Set spectrum analyzer span = 0. centered on a hopping channel;
- 3) Use Emission width * No. of Hopping Channels in 31.6s to determine the dwell time.

Limit:

Regulation 15.247(a)(1)(iii) 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.

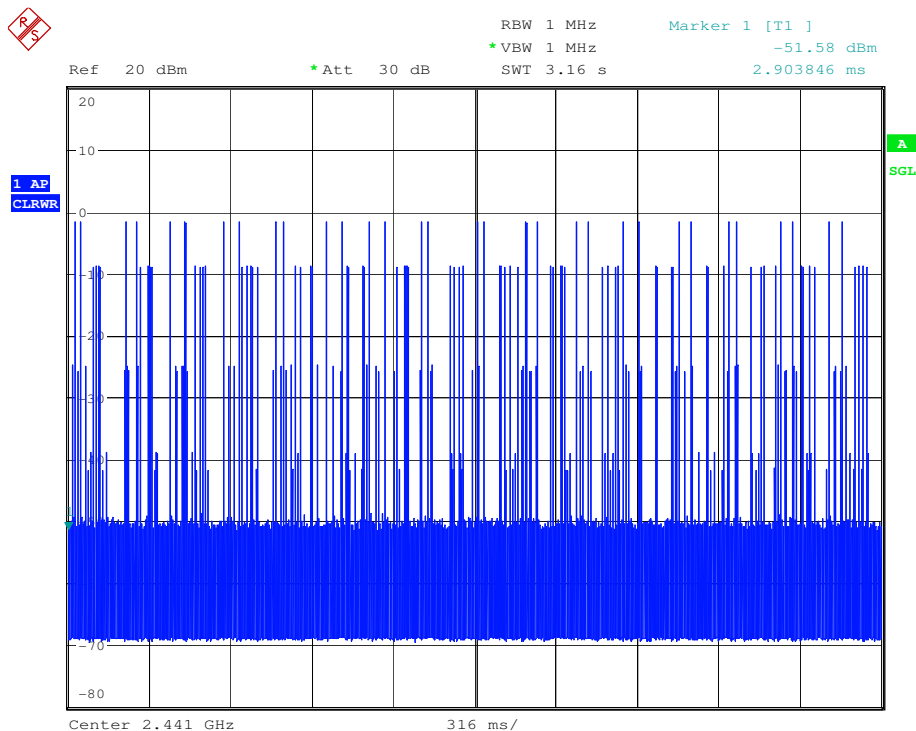
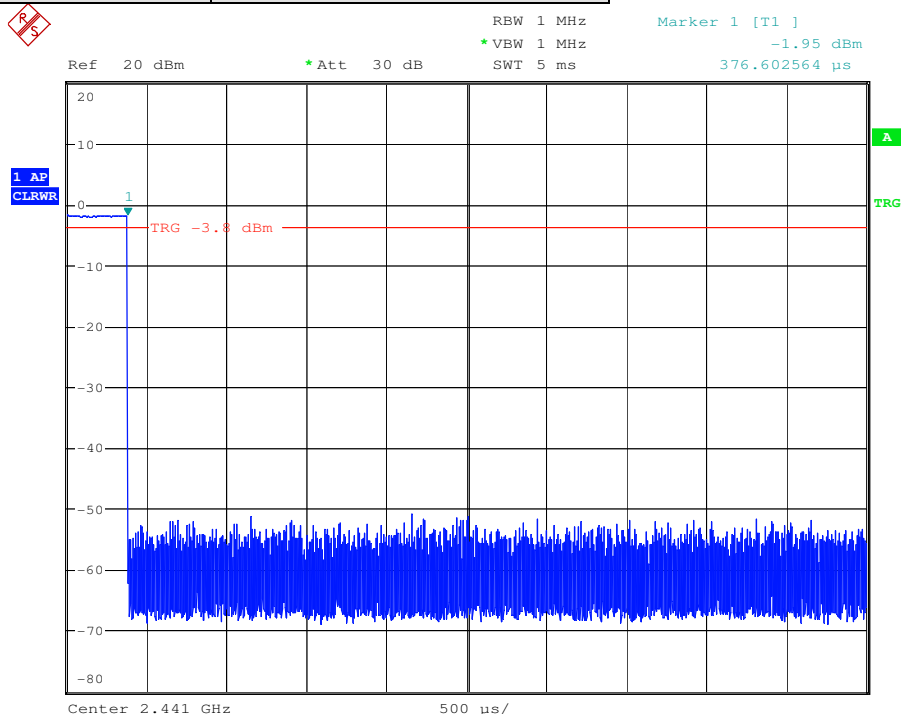
Test Data:

Test Mode	Test Frequency	Packet	Emission Width (ms)	Number of Hopping Channel in 31.6s	Average Occupancy Time (s)	Limit(s)	Test Result
GFSK	2441	DH1	0.377	320	0.12	0.4	Pass
		DH3	1.638	160	0.26		Pass
		DH5	2.885	120	0.35		Pass
π/4DQPSK		2DH1	0.377	320	0.12		Pass
		2DH3	1.638	170	0.28		Pass
		2DH5	2.885	110	0.32		Pass
8DPSK		3DH1	0.380	320	0.12		Pass
		3DH3	1.638	170	0.28		Pass
		3DH5	2.904	110	0.32		Pass

Test plot as follows:

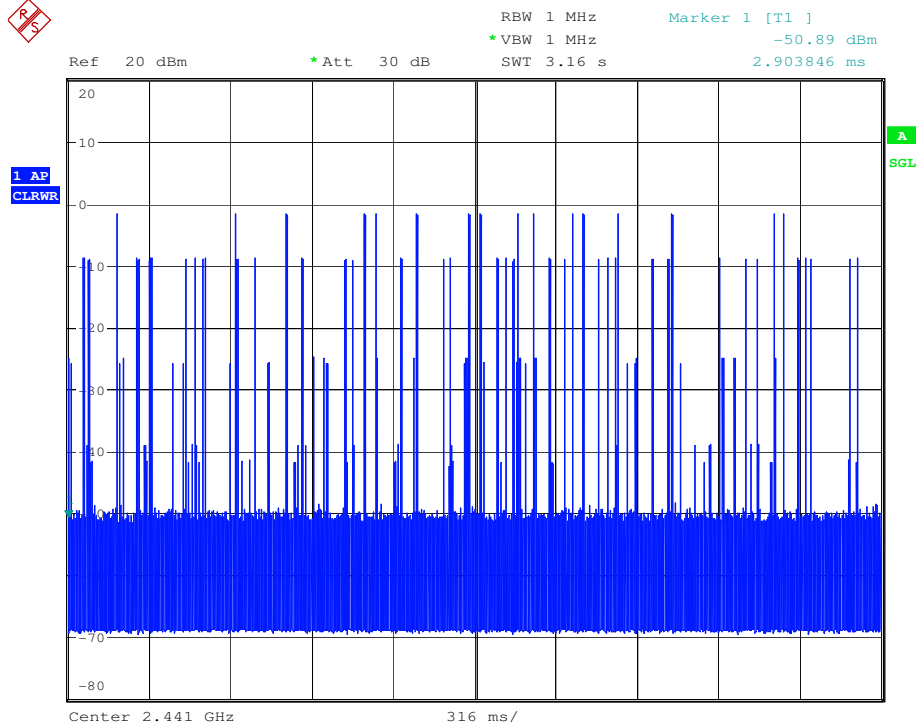
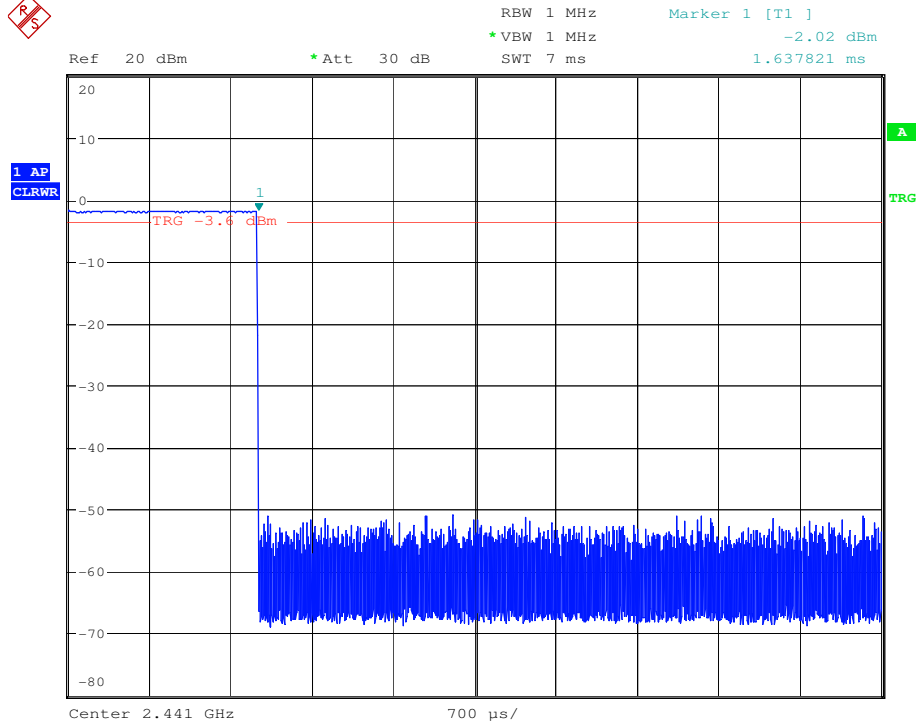
Test mode:GFSK-DH1

Test channel:2441



Test mode:GFSK-DH3

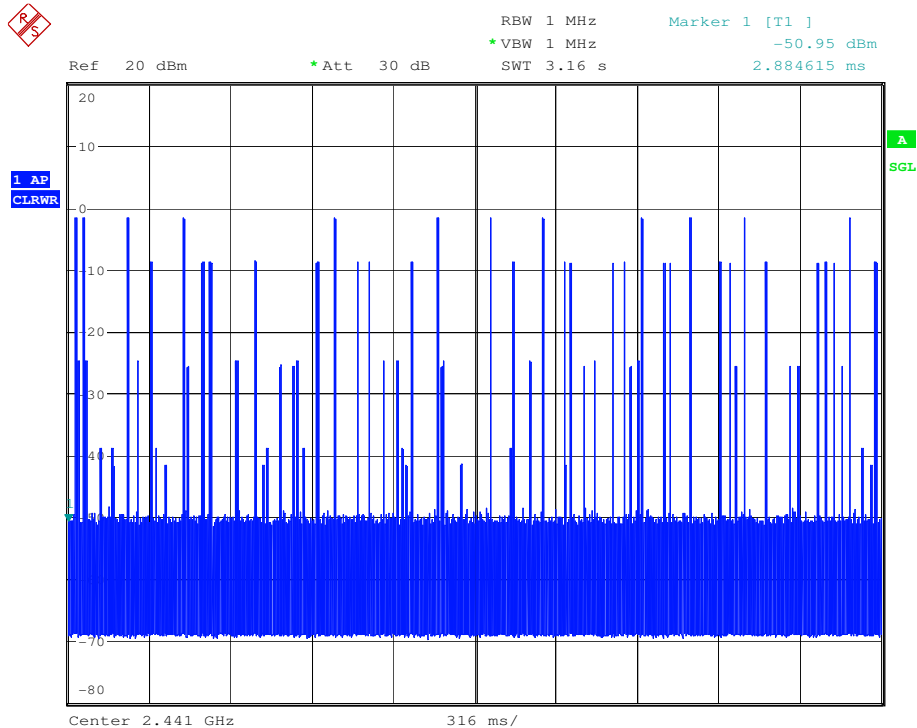
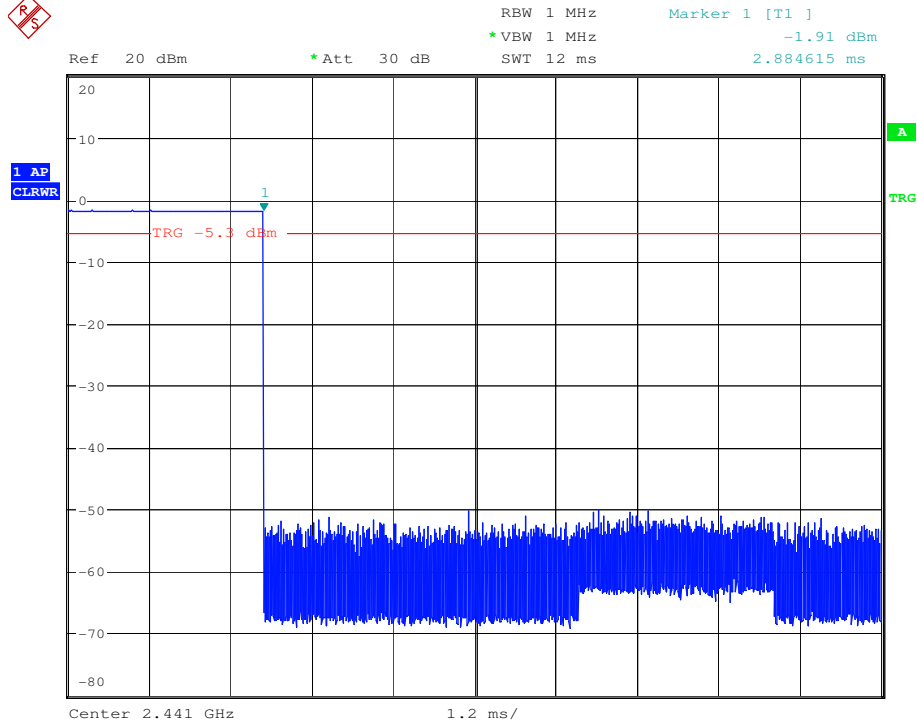
Test channel:2441





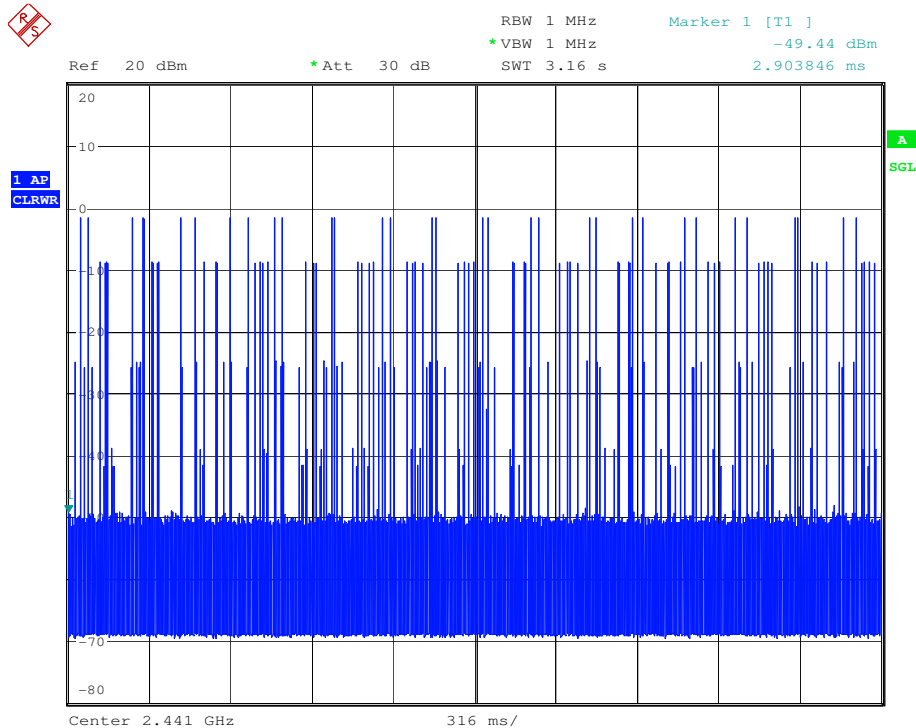
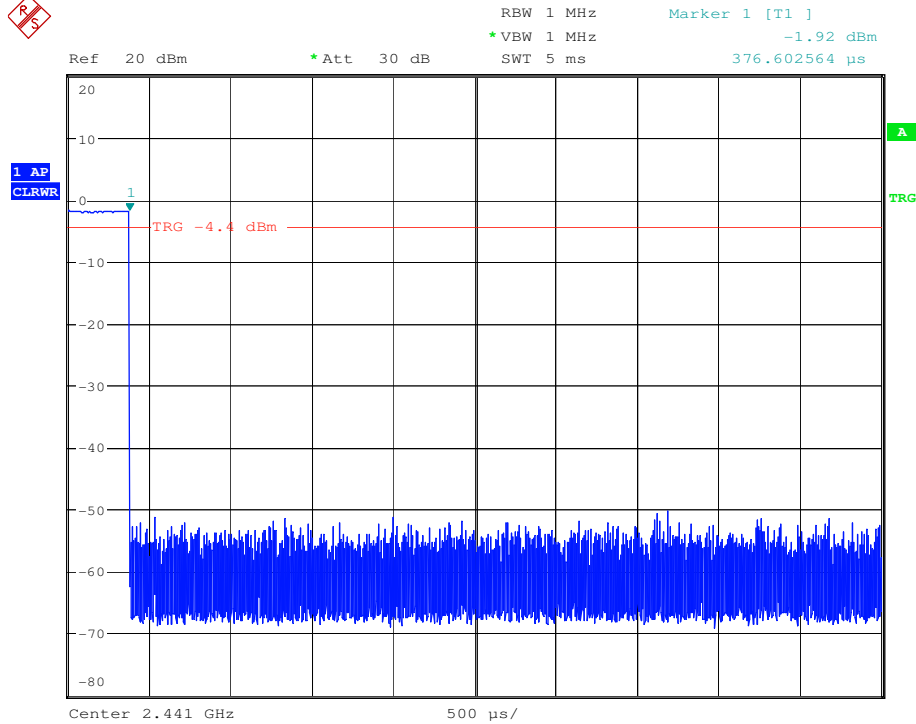
Test mode:GFSK-DH5

Test channel:2441



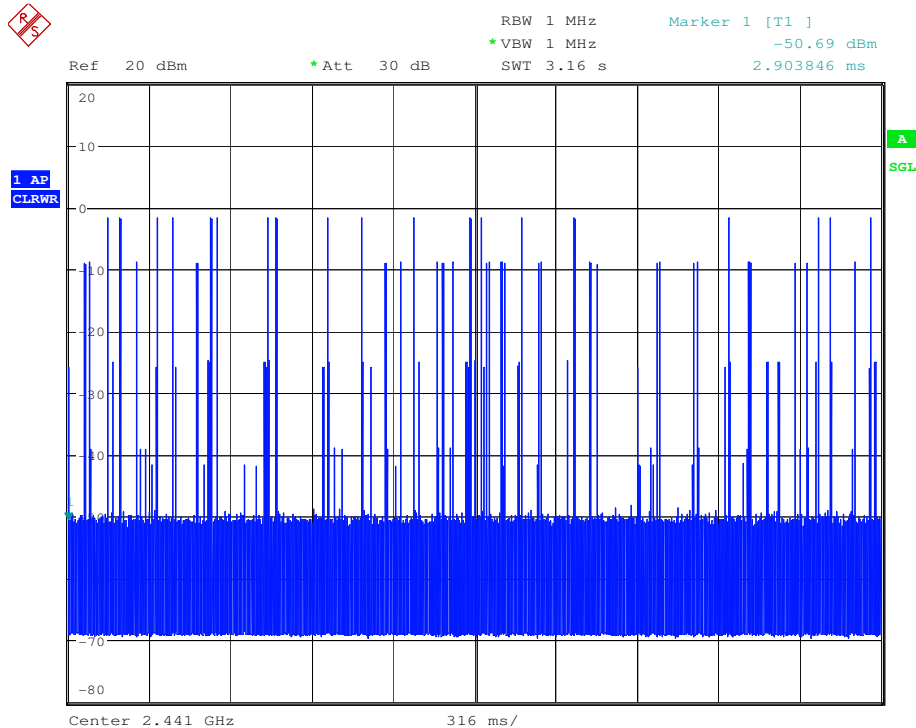
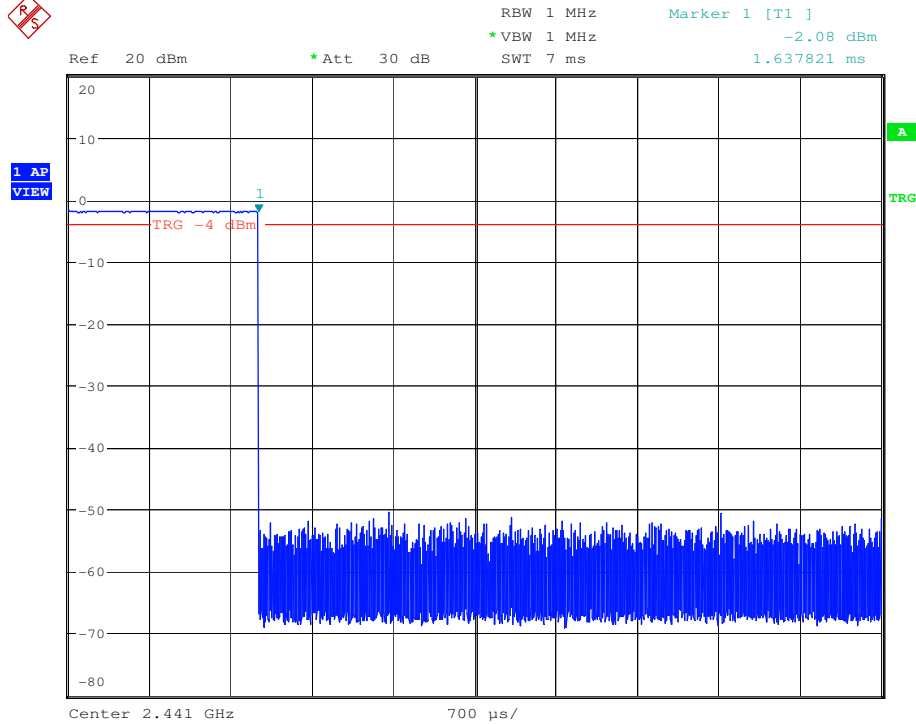
Test mode: $\pi/4$ DQPSK -2DH1

Test channel:2441



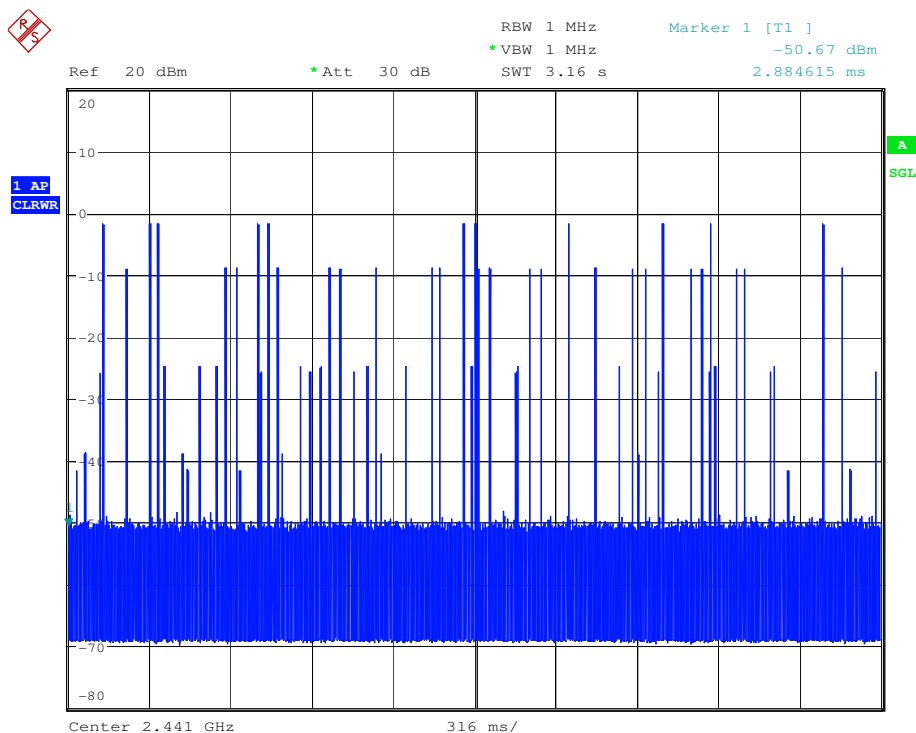
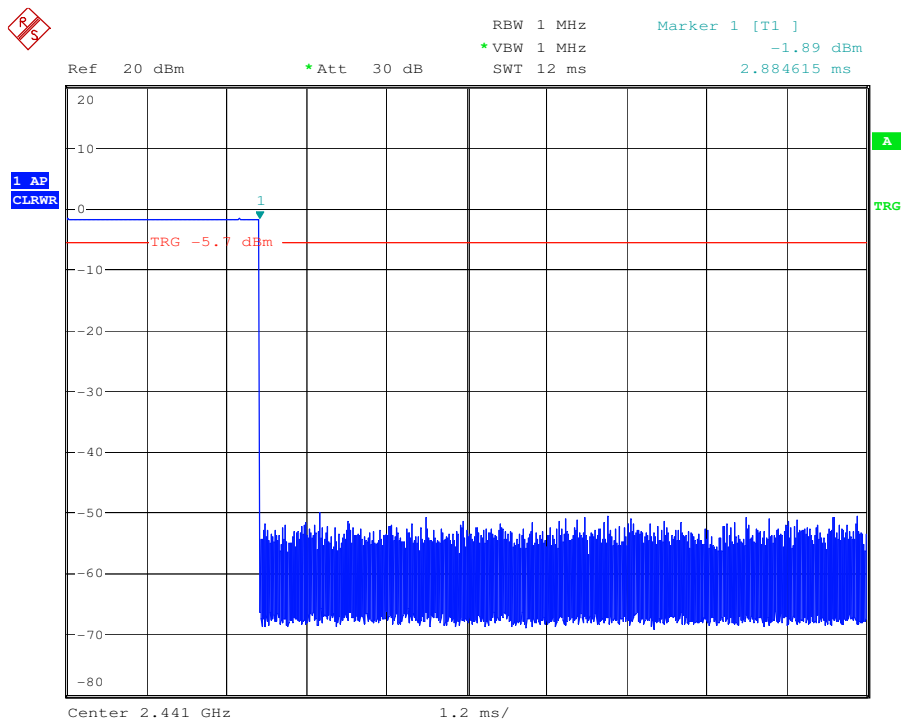
Test mode: $\pi/4$ DQPSK -2DH3

Test channel:2441



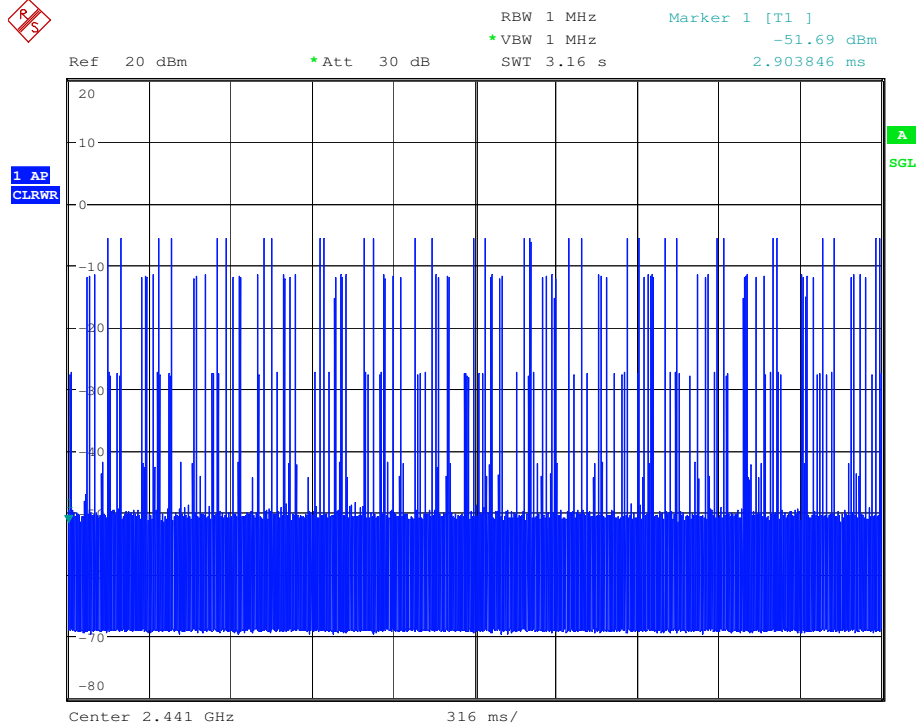
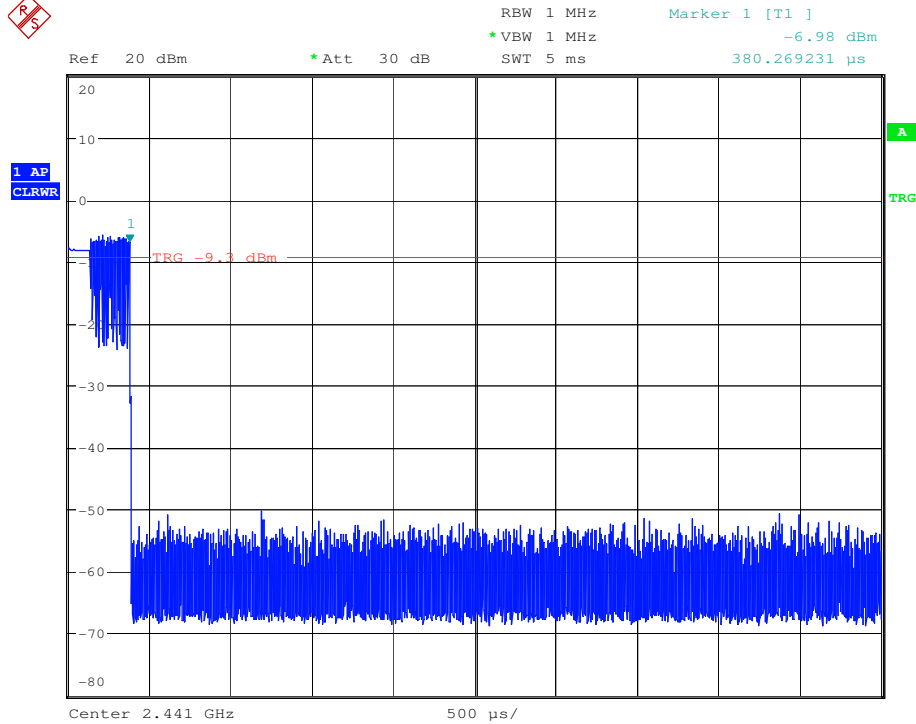
Test mode: $\pi/4$ DQPSK -2DH5

Test channel:2441



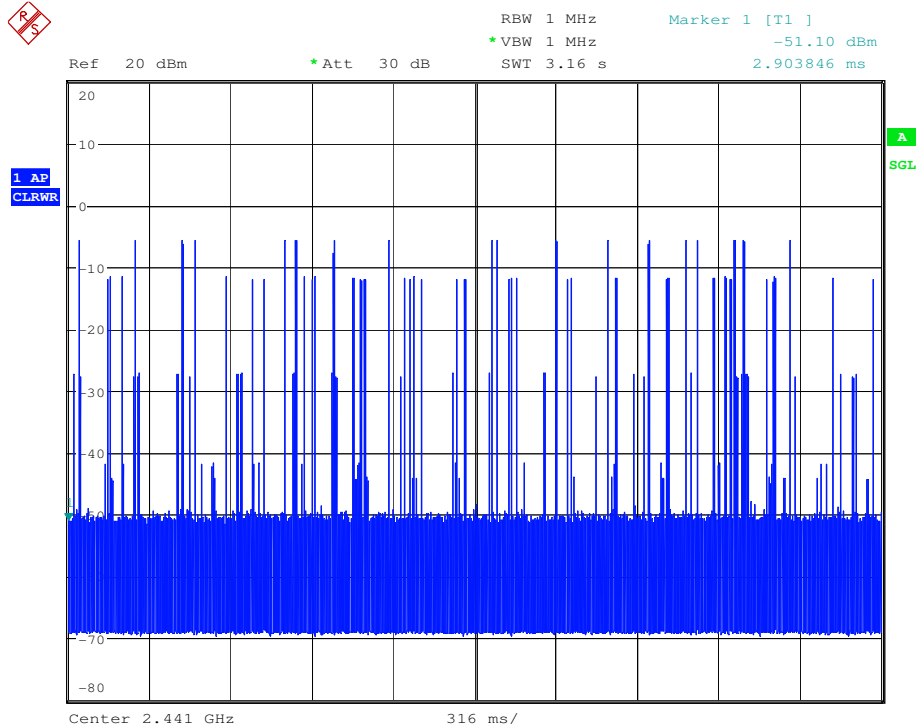
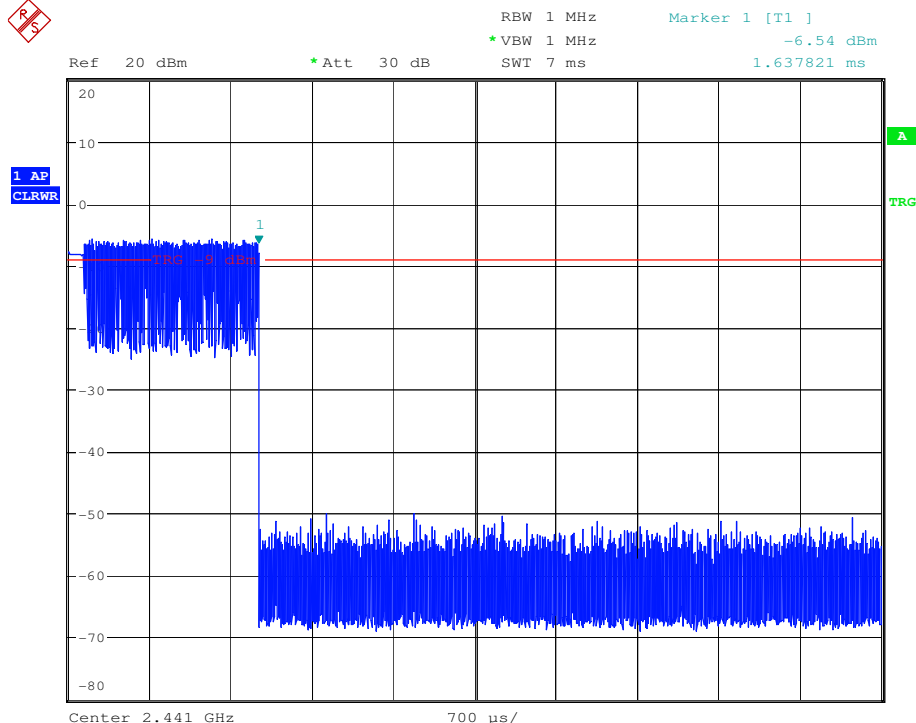
Test mode: 8DPSK -3DH1

Test channel:2441



Test mode: 8DPSK -3DH3

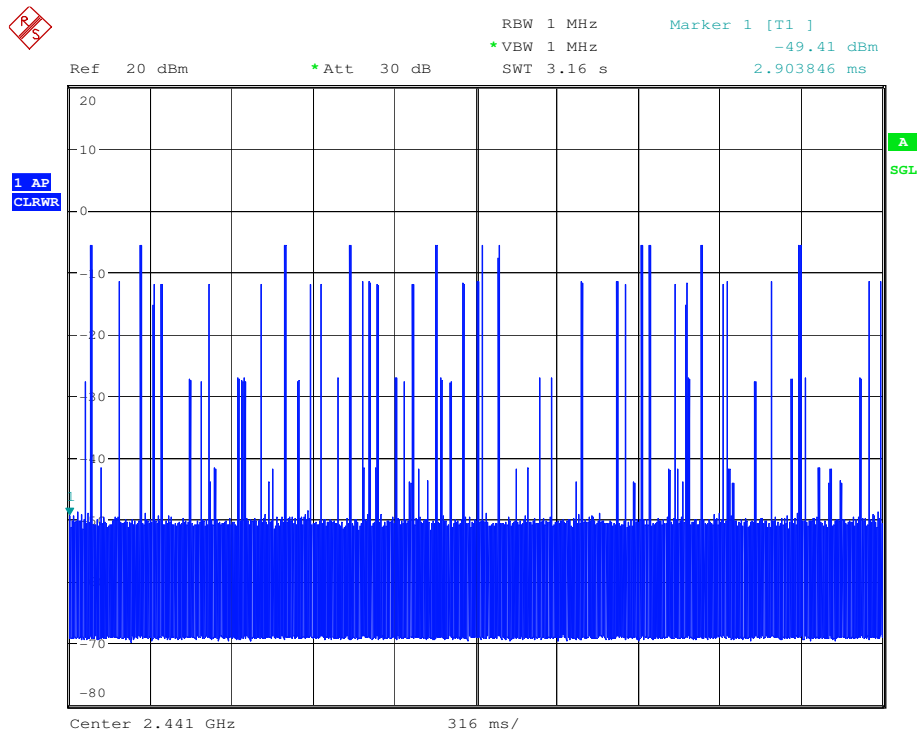
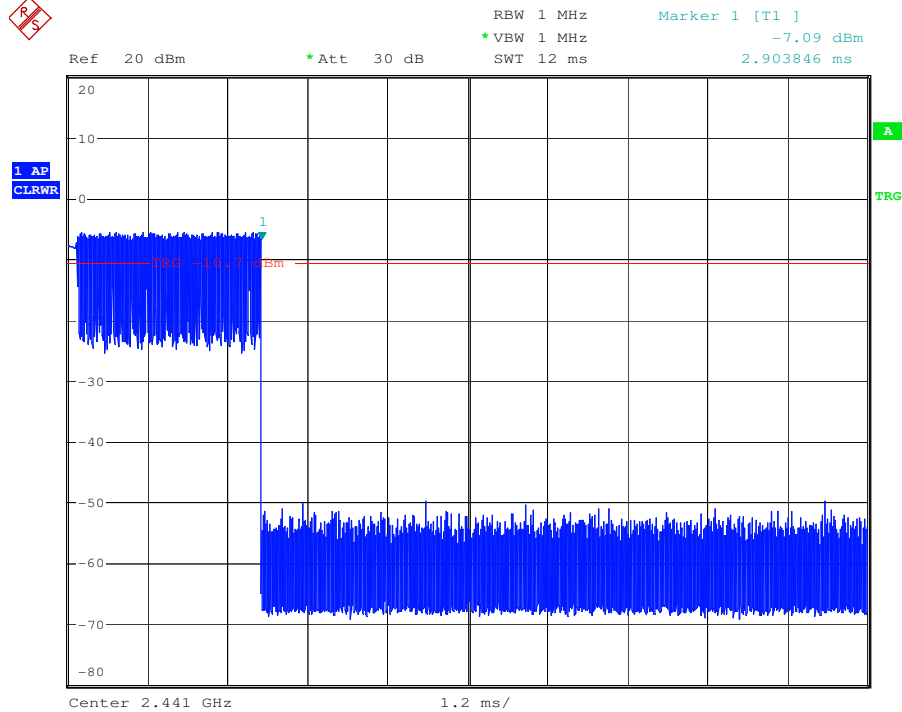
Test channel:2441





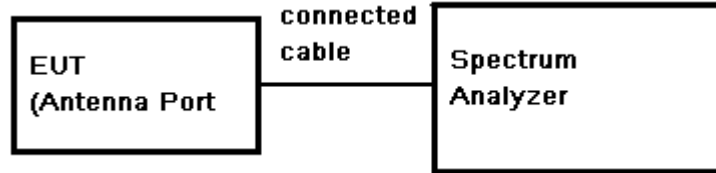
Test mode: 8DPSK -3DH5

Test channel:2441



7.10 Conducted Spurious Emissions and Band-edge

Test Configuration:



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 \geq RBW. Sweep = auto; Detector Function = Peak (Max. hold).

Limit:

(d) 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.

Test Result:

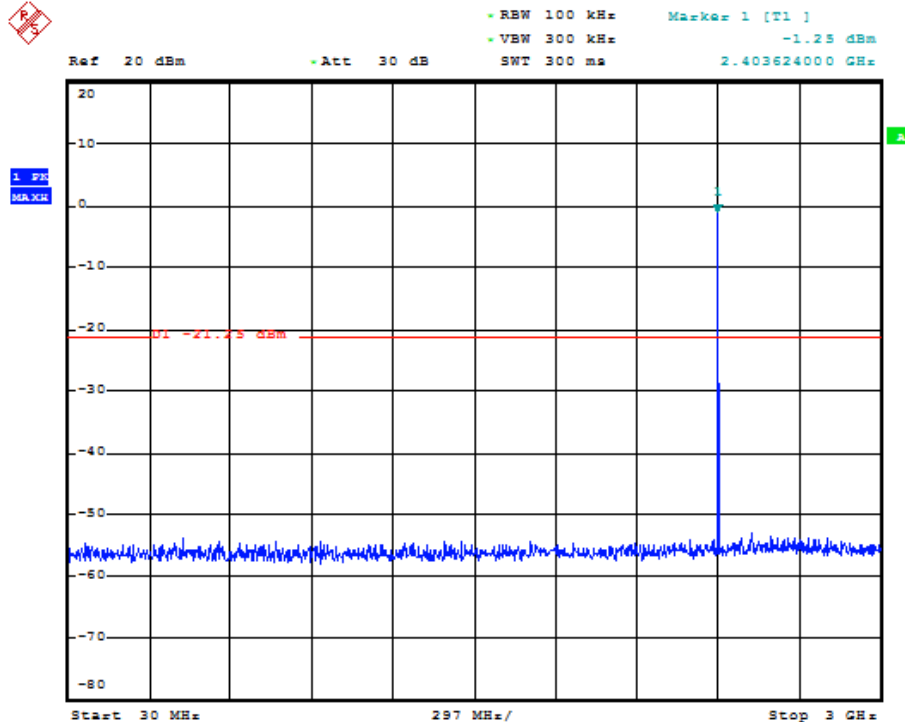
Pass

7.10.1 Conducted spurious emission

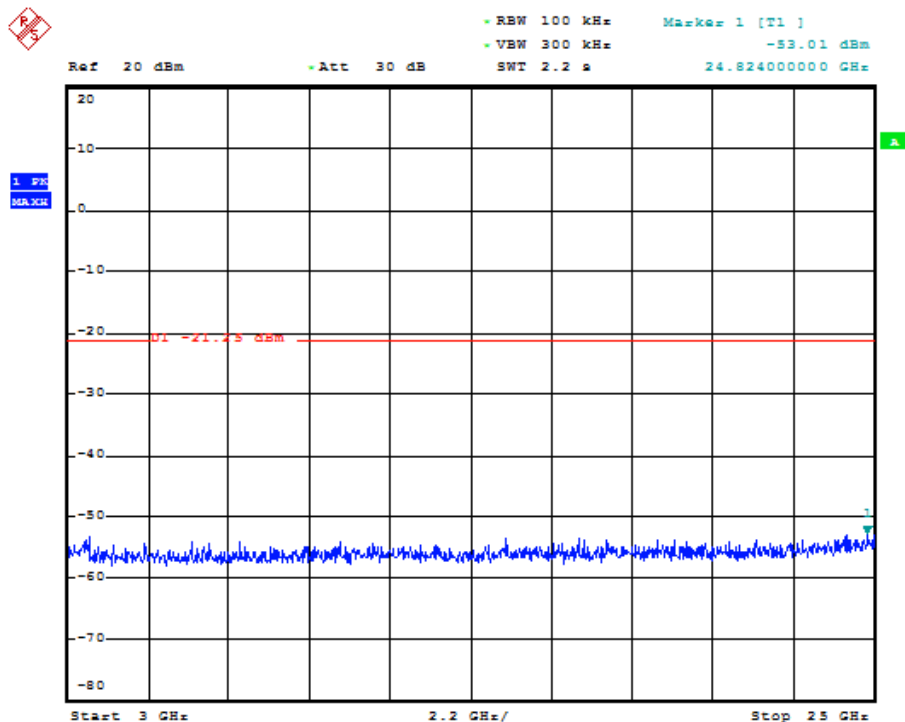
Test plot as follows:

Test mode: GFSK	Test channel: 2402
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30MHz-3GHz:

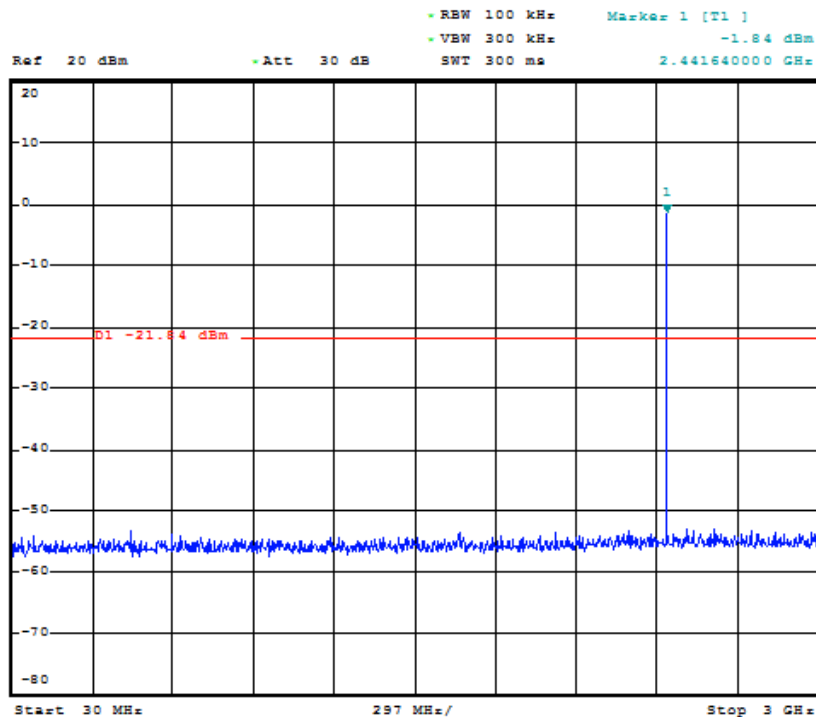


3GHz-25GHz:

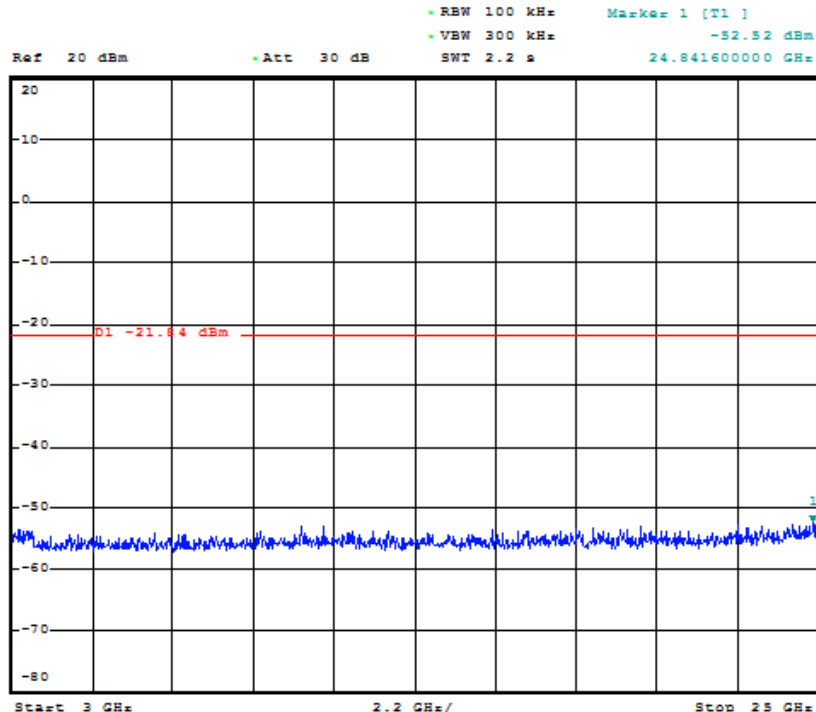


Test mode: GFSK	Test channel: 2441
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30MHz-3GHz:



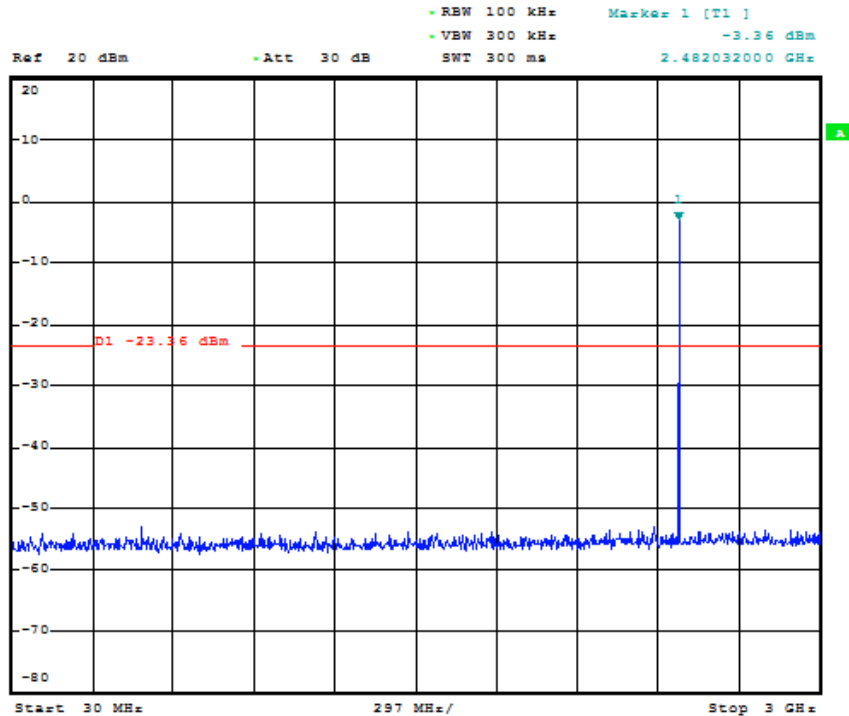
3GHz-25GHz:



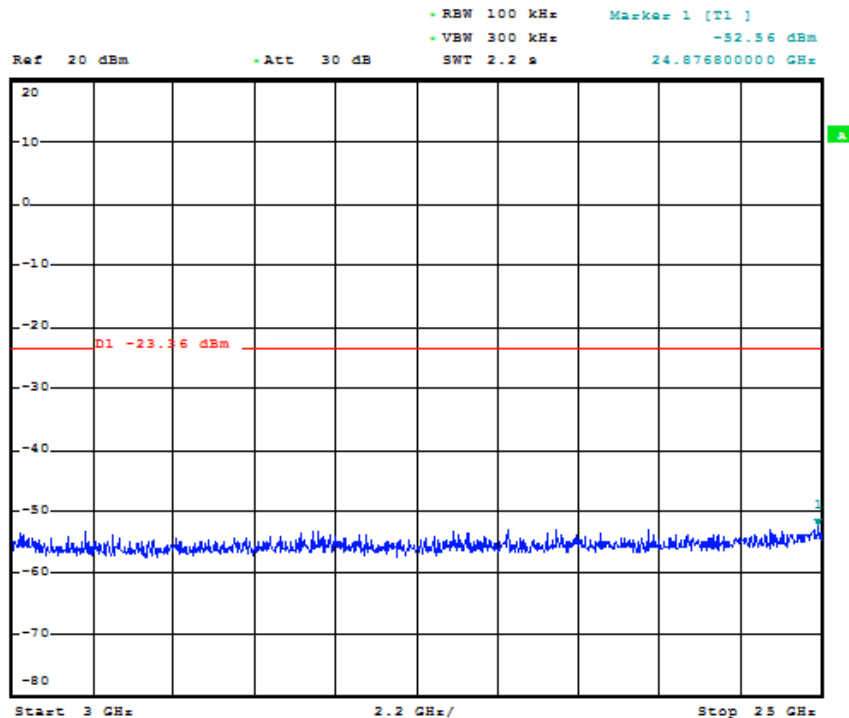
Test mode: GFSK

Test channel: 2480

30MHz-3GHz:

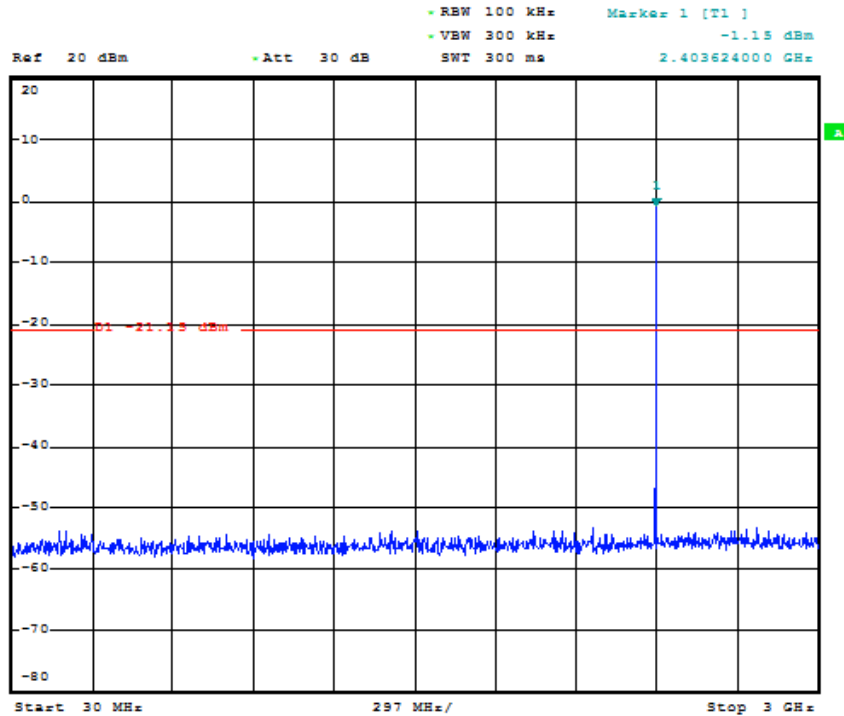


3GHz-25GHz:

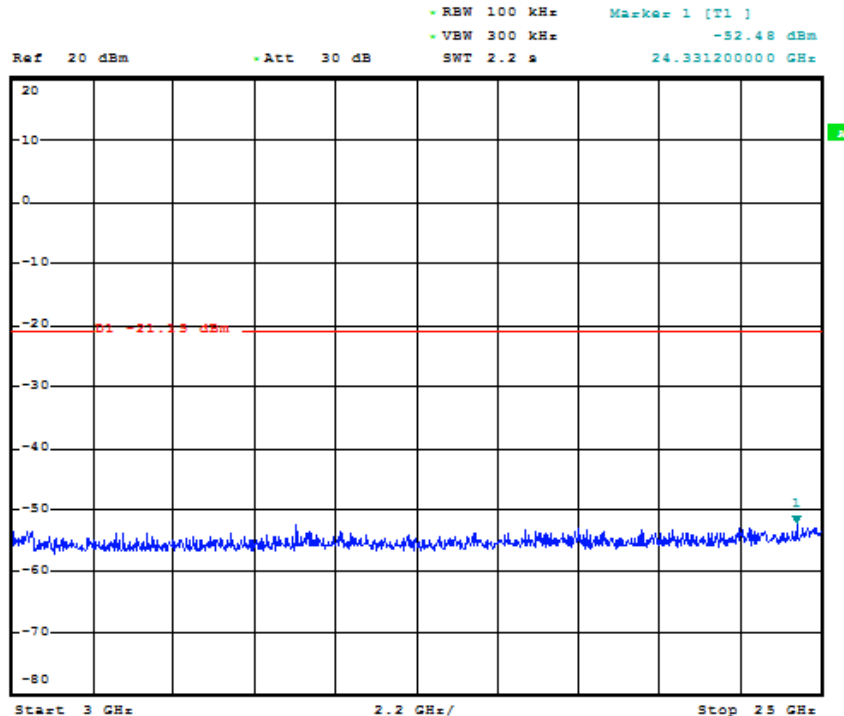


Test mode: $\pi/4$ DQPSK	Test channel: 2402
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30MHz-3GHz:



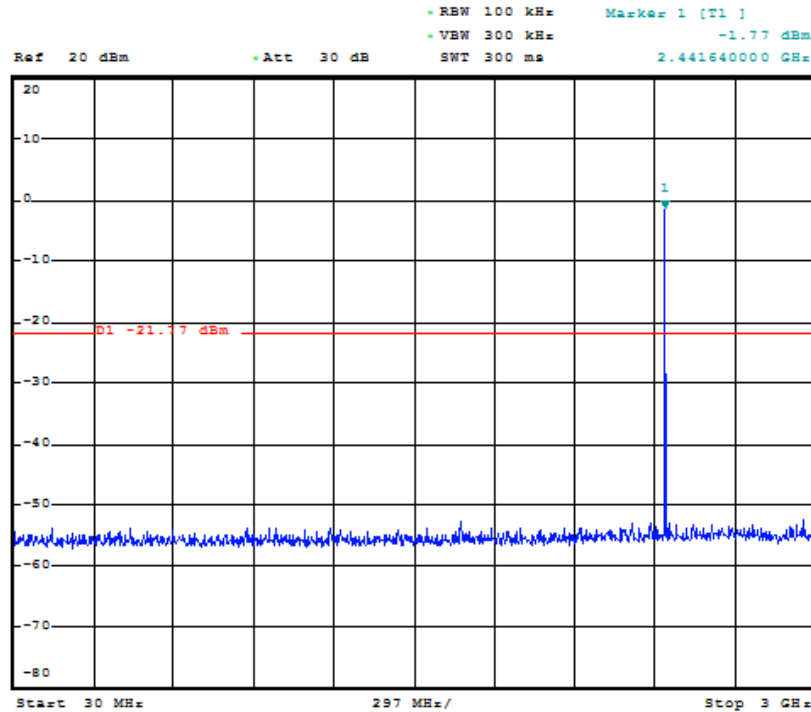
3GHz-25GHz:



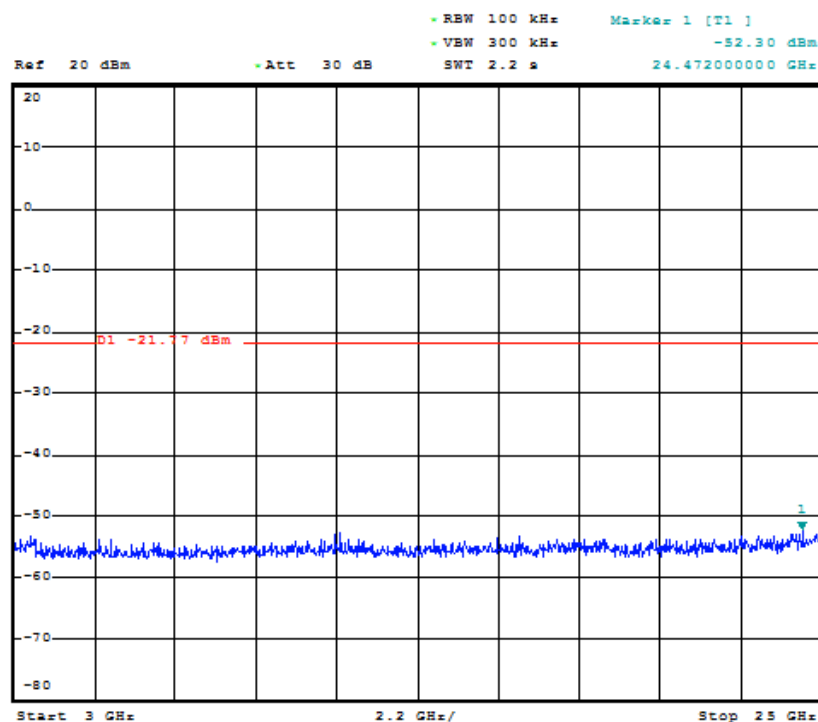
Test mode: $\pi/4$ DQPSK

Test channel: 2441

30MHz-3GHz:



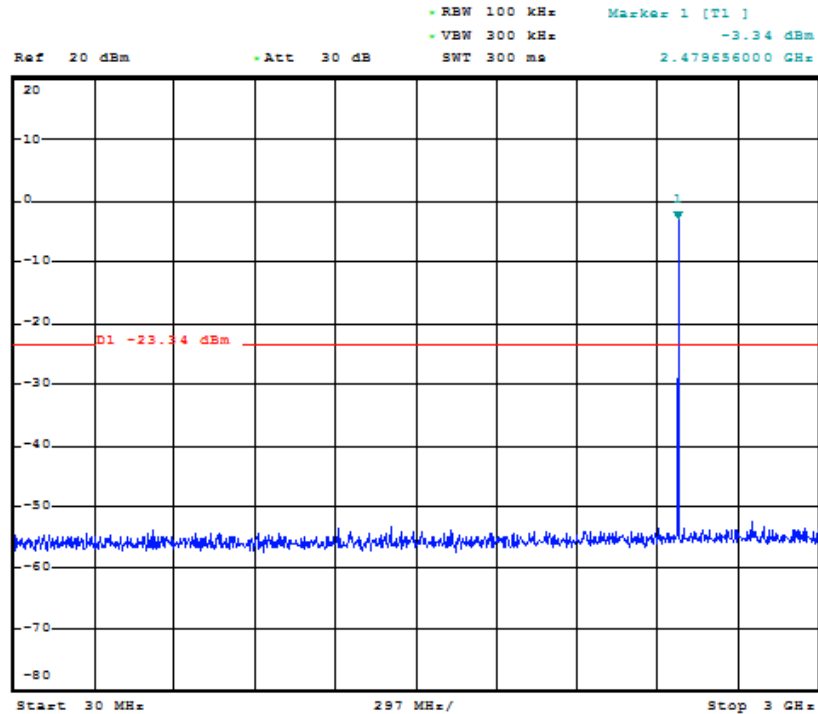
3GHz-25GHz:



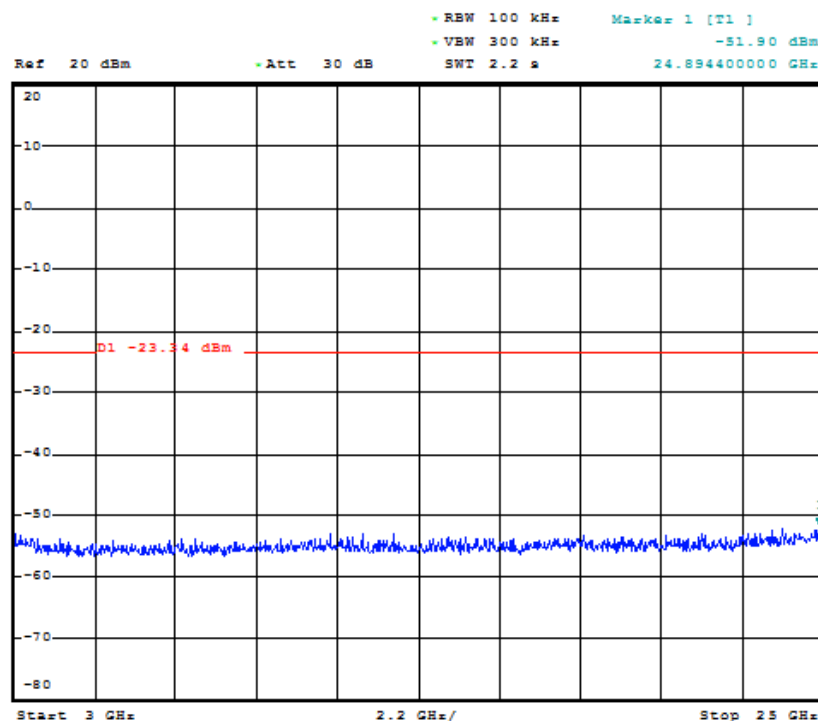
Test mode: $\pi/4$ DQPSK

Test channel: 2480

30MHz-3GHz:



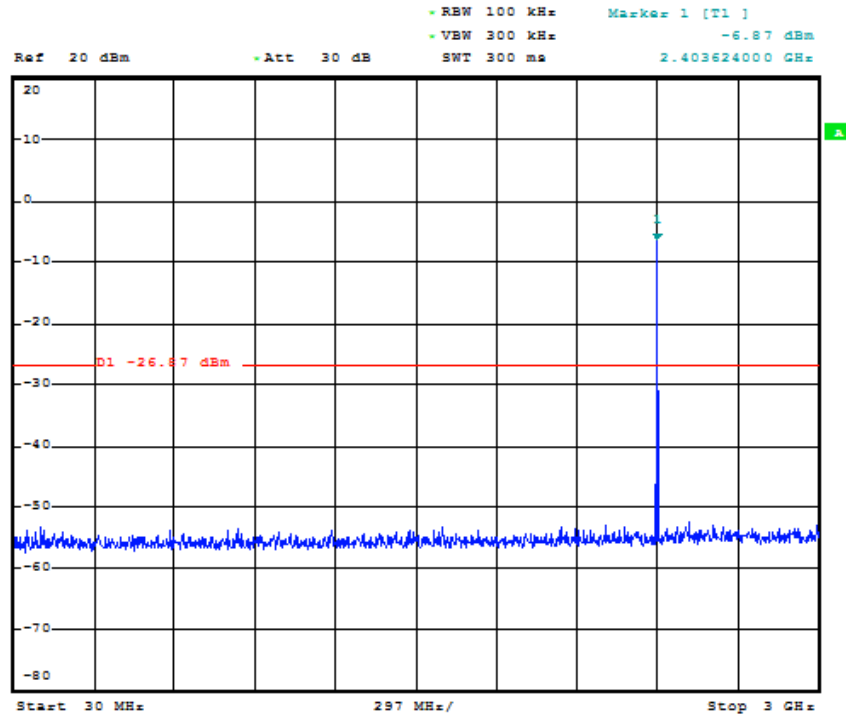
3GHz-25GHz:



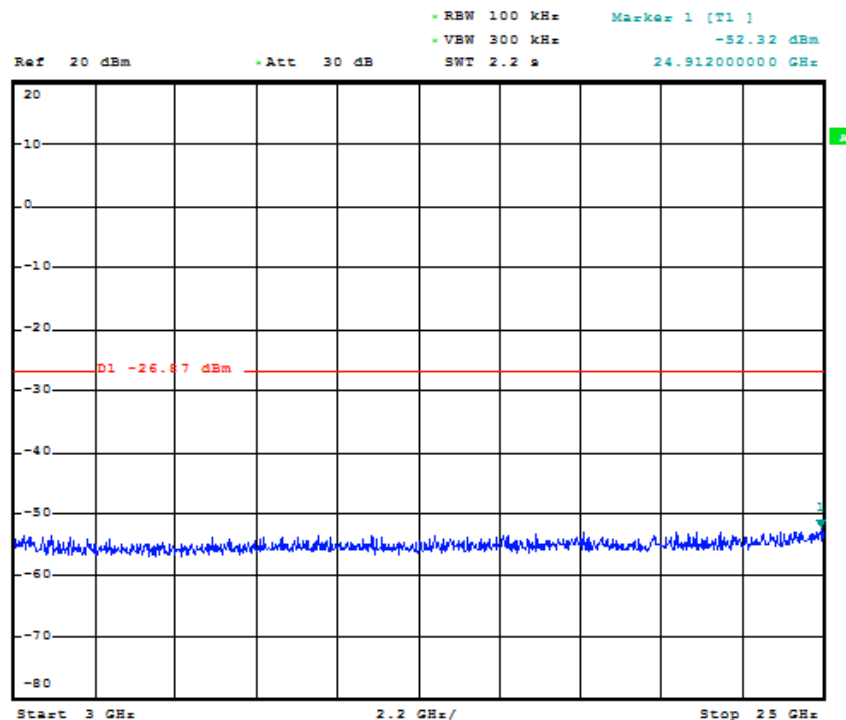
Test mode: 8DPSK

Test channel: 2402

30MHz-3GHz:



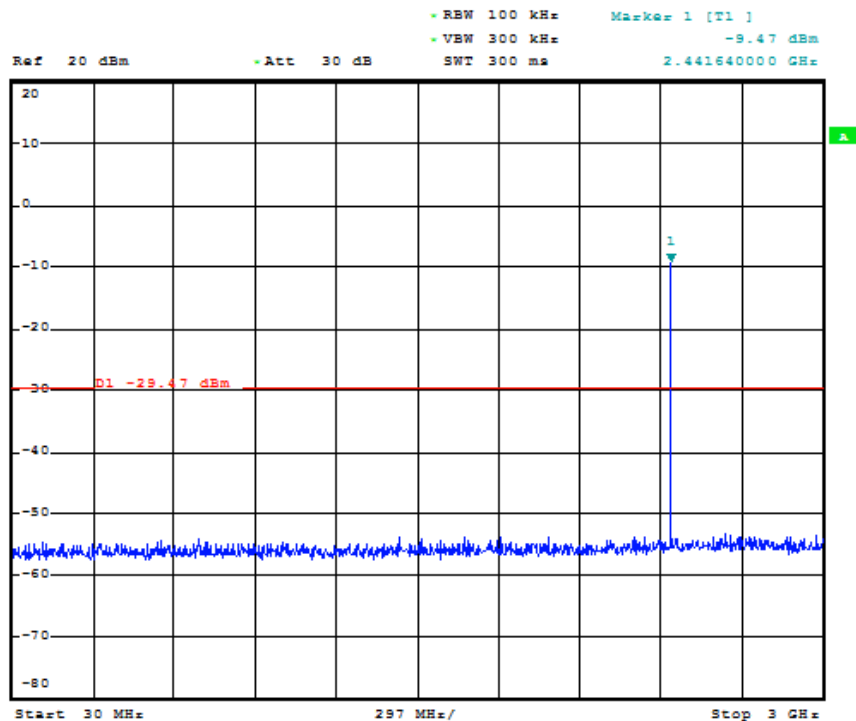
3GHz-25GHz:



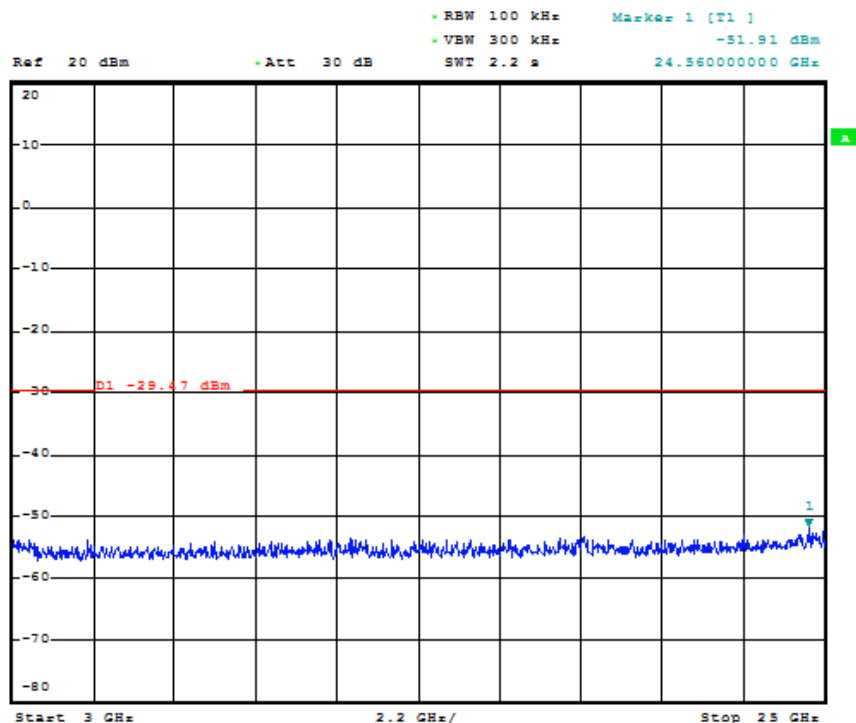
Test mode: 8DPSK

Test channel: 2441

30MHz-3GHz:



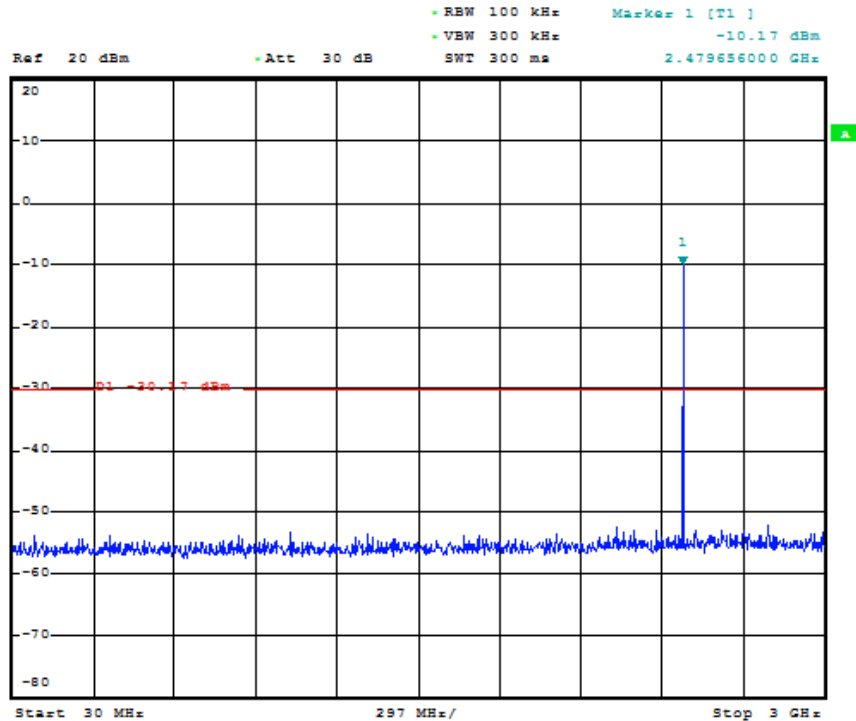
3GHz-25GHz:



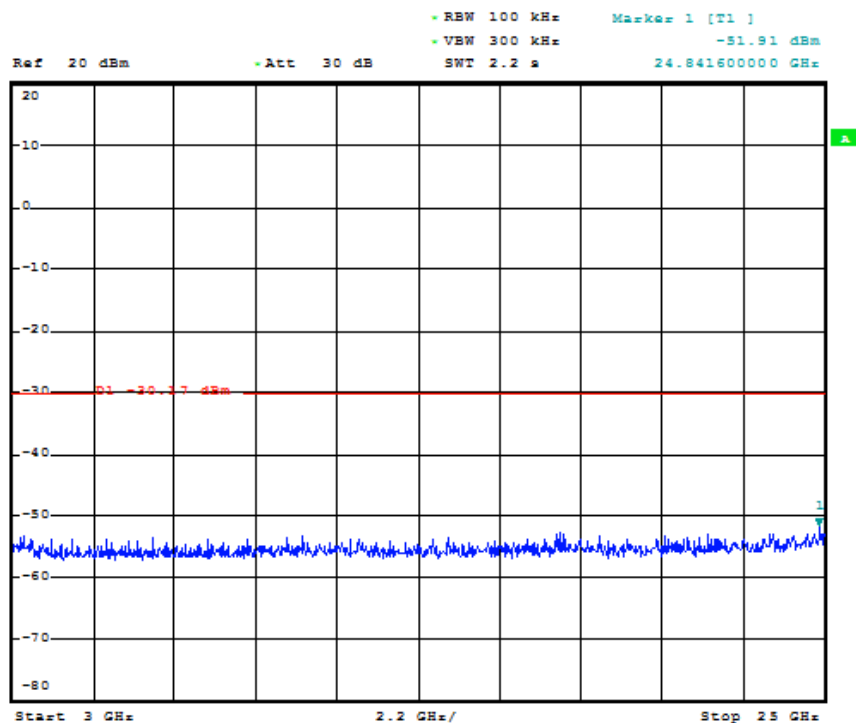
Test mode: 8DPSK

Test channel: 2480

30MHz-3GHz:



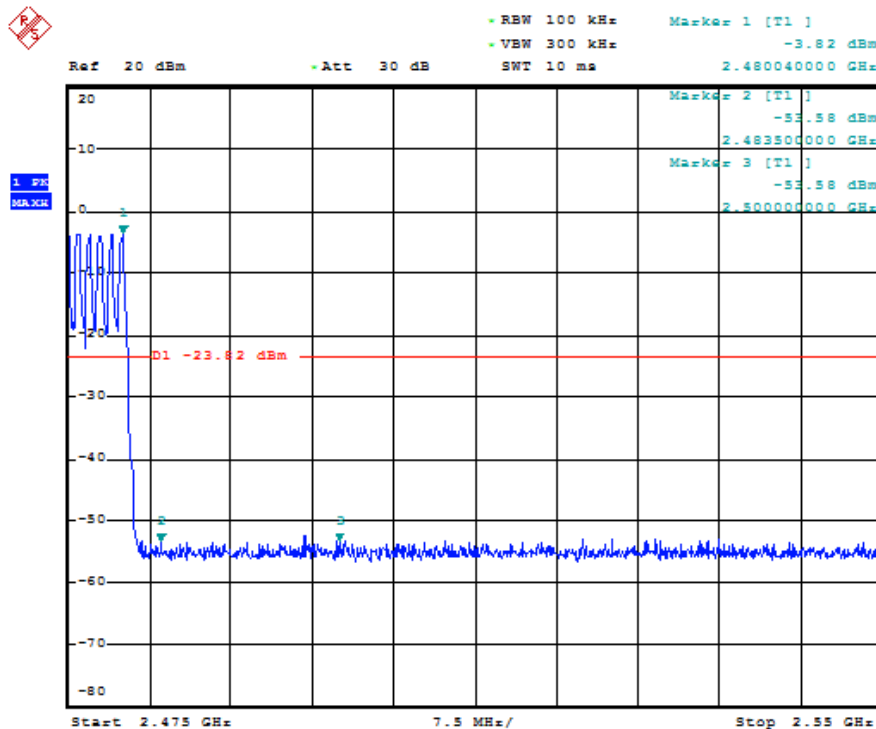
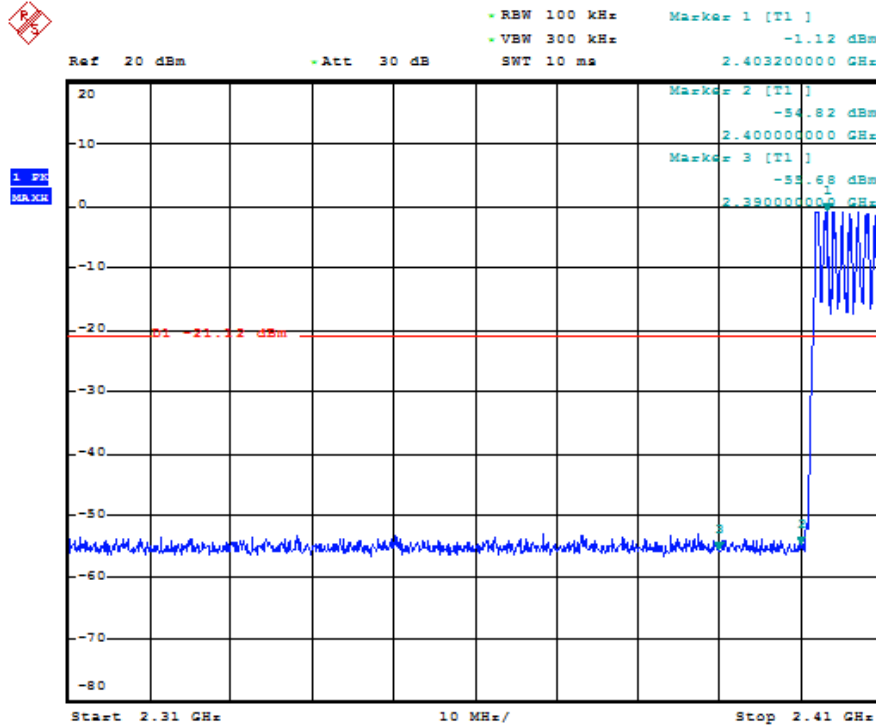
3GHz-25GHz:



7.10.2 Conducted Band-edge

Test plot as follows:

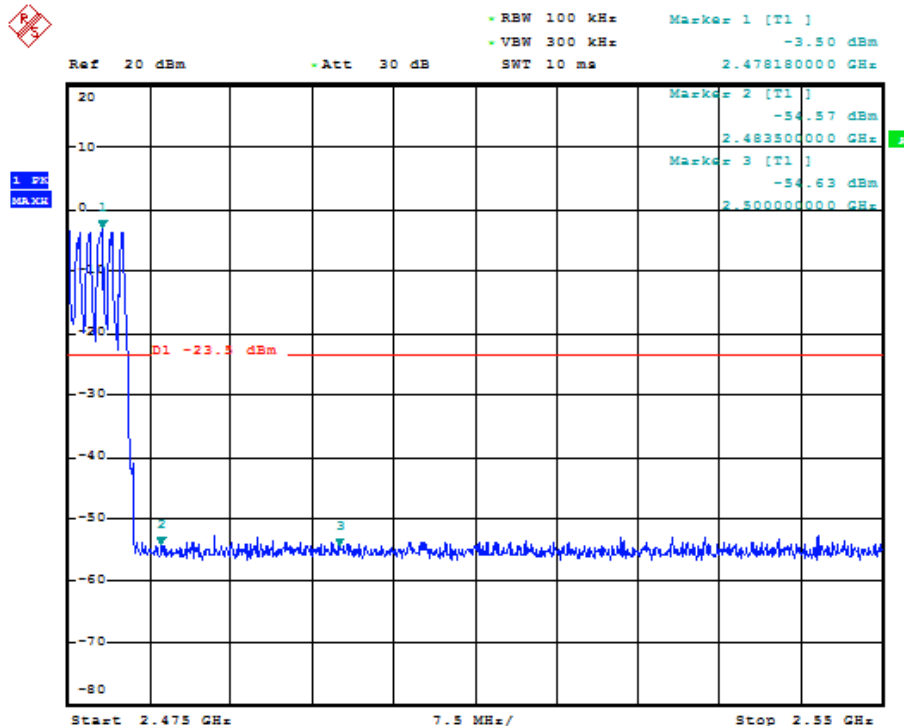
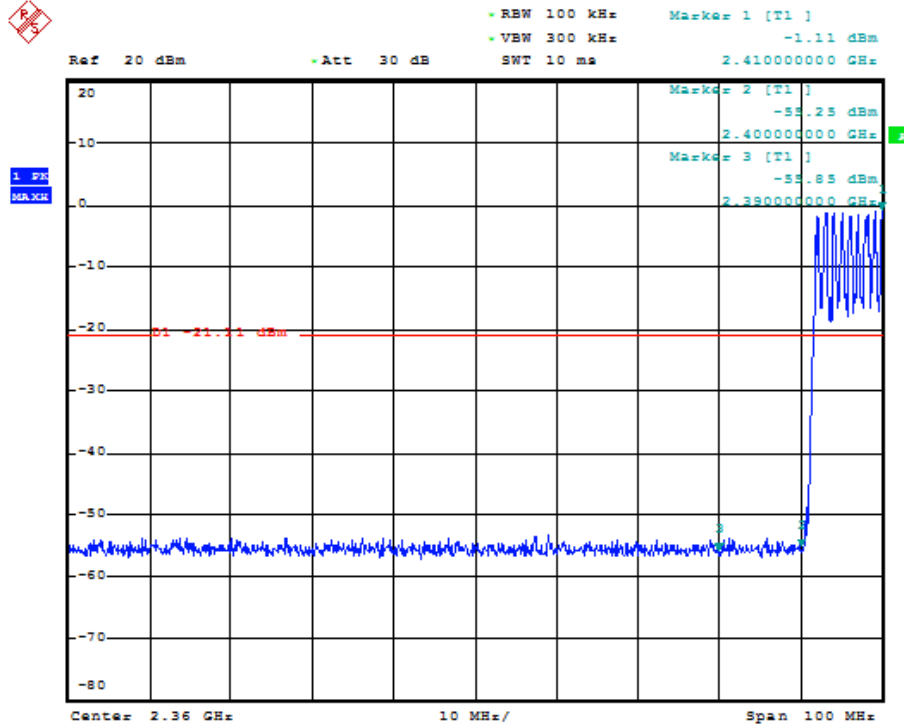
Test mode: GFSK	Hopping enabled
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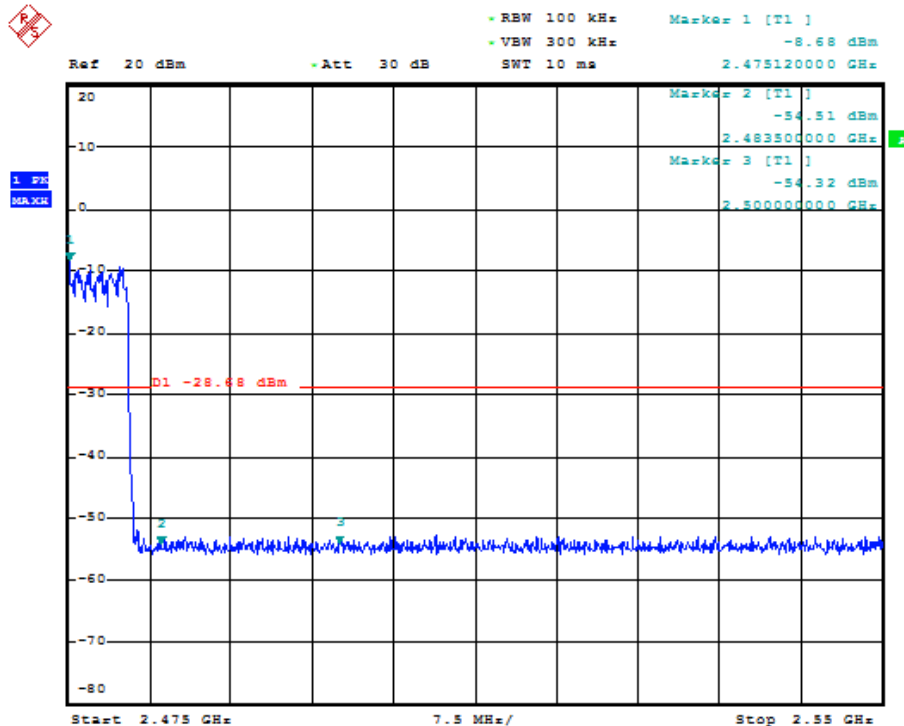
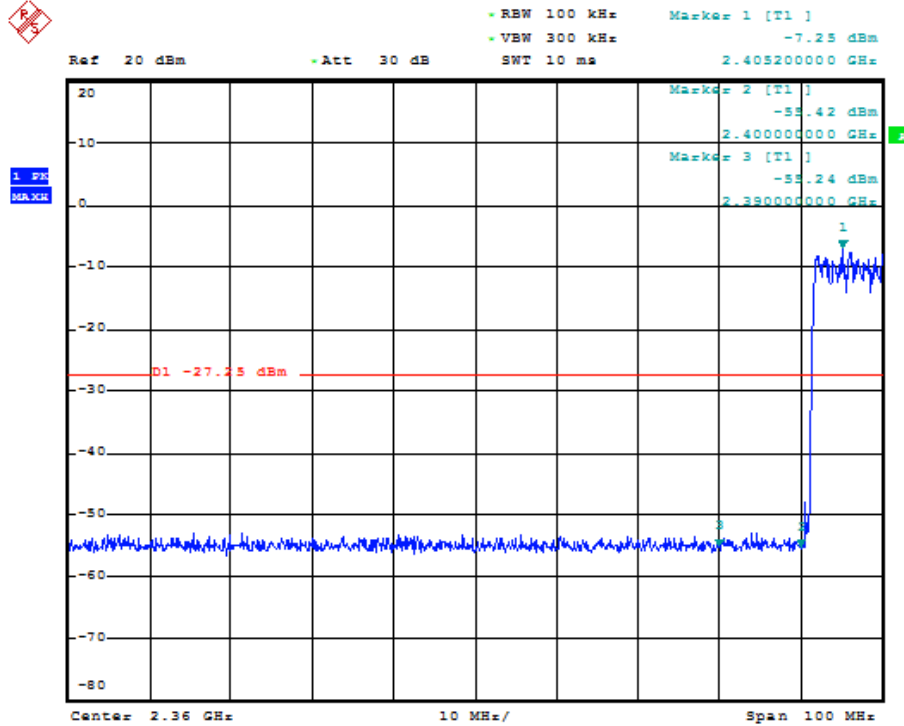
Test mode: $\pi/4$ DQPSK

Hopping enabled



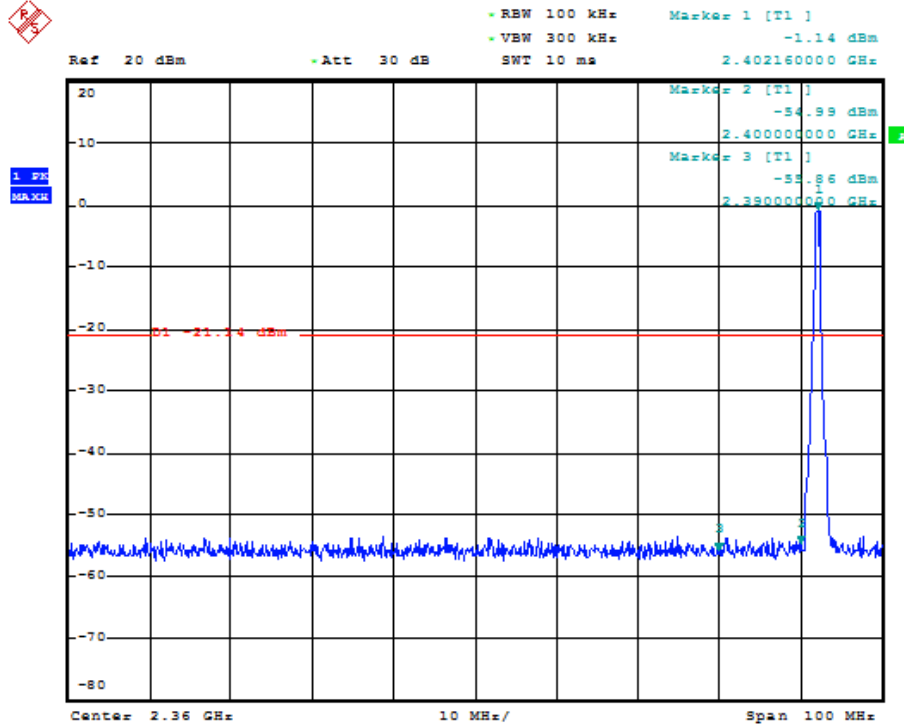
Test mode: 8DPSK

Hopping enabled



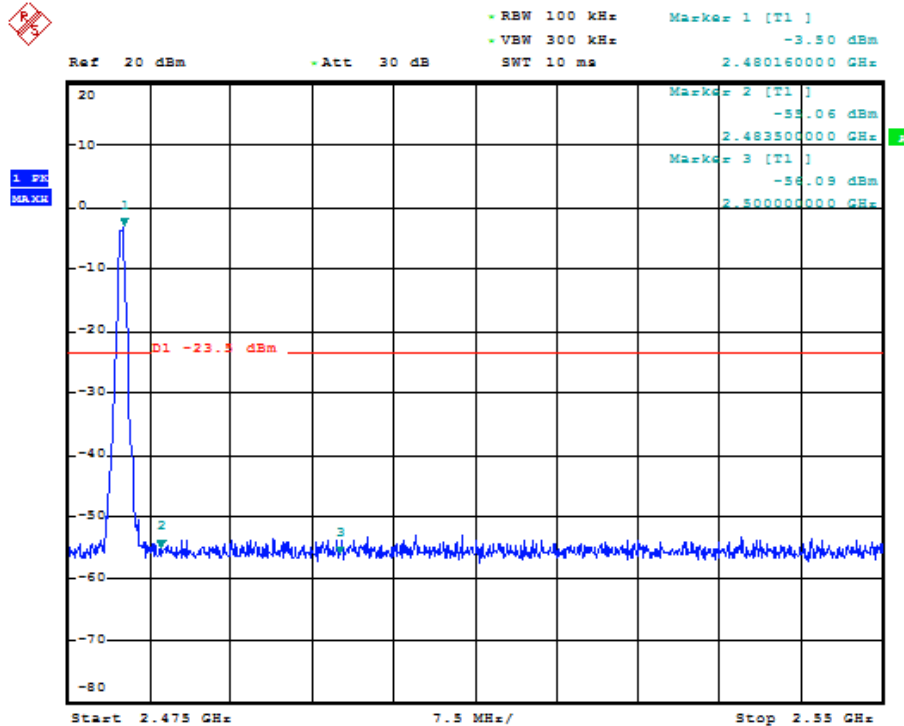
Test mode: GFSK

Test channel: Hopping disabled- 2402



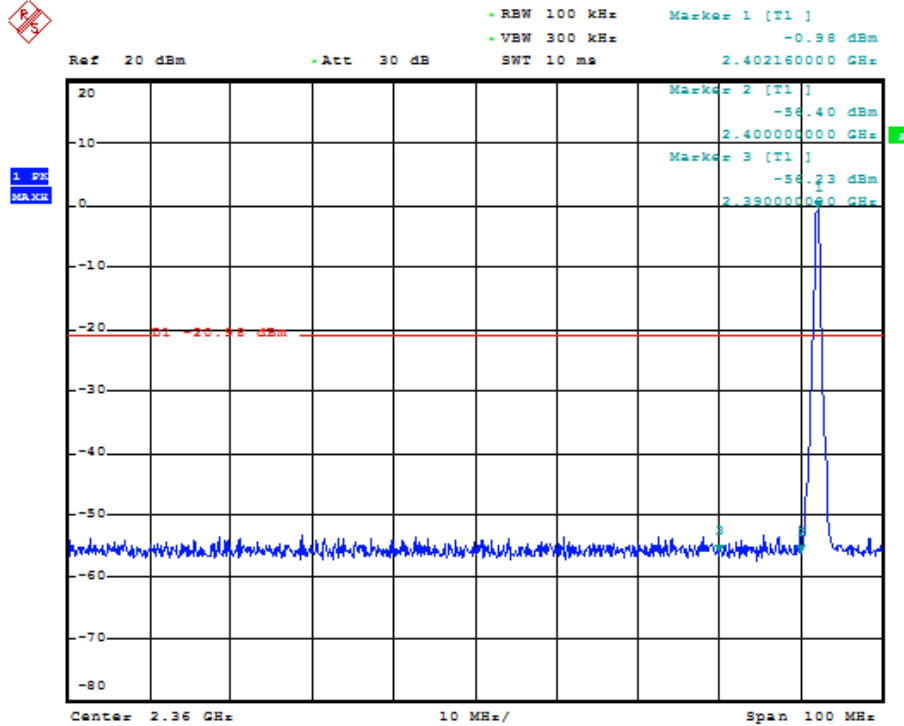
Test mode: GFSK

Test channel: Hopping disabled- 2480



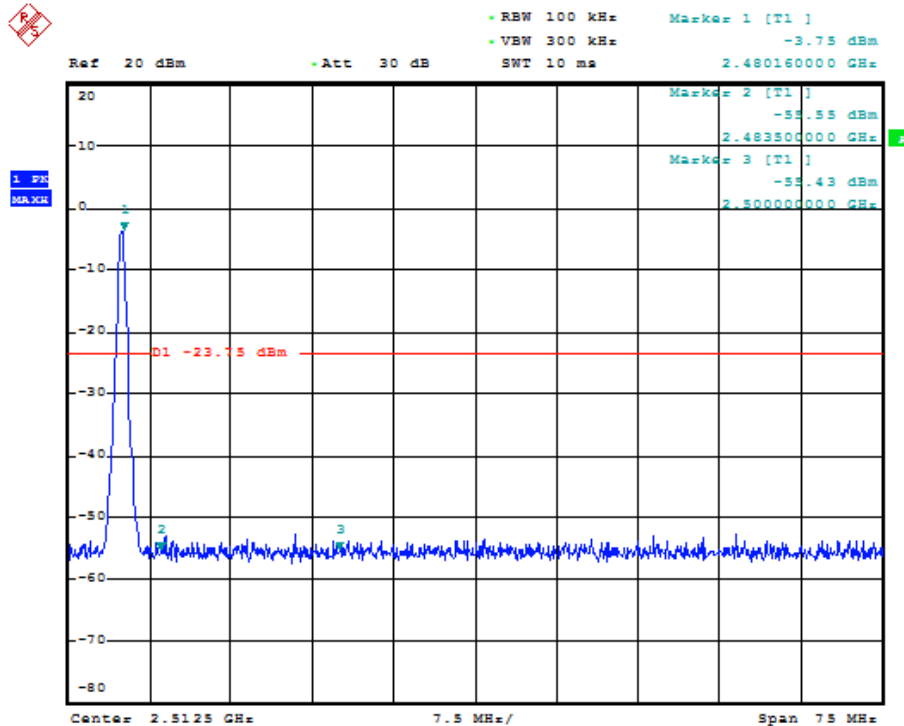
Test mode: $\pi/4$ DQPSK

Test channel: Hopping disabled- 2402



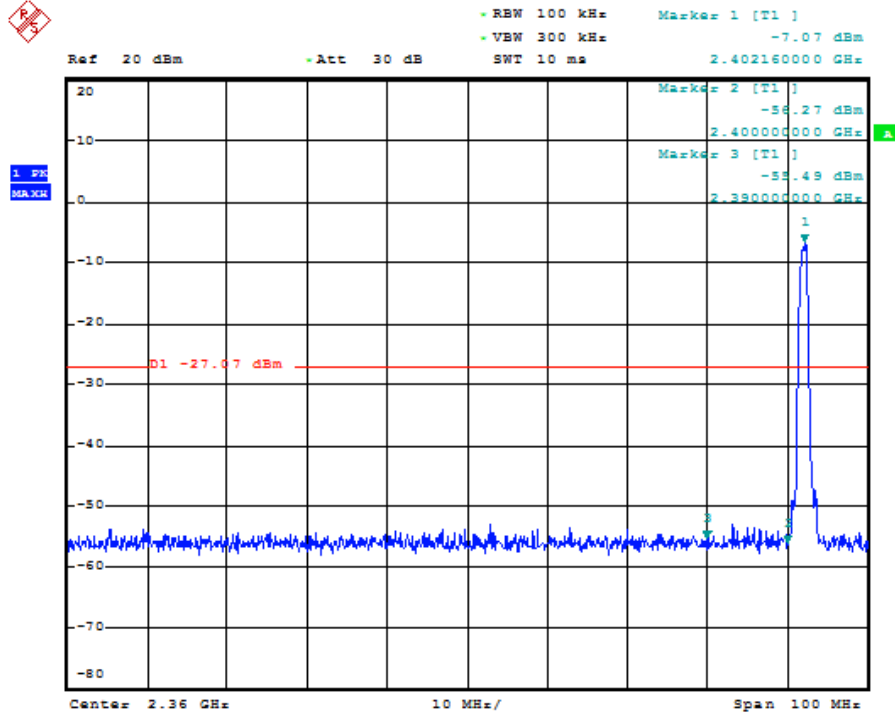
Test mode: $\pi/4$ DQPSK

Test channel: Hopping disabled- 2480



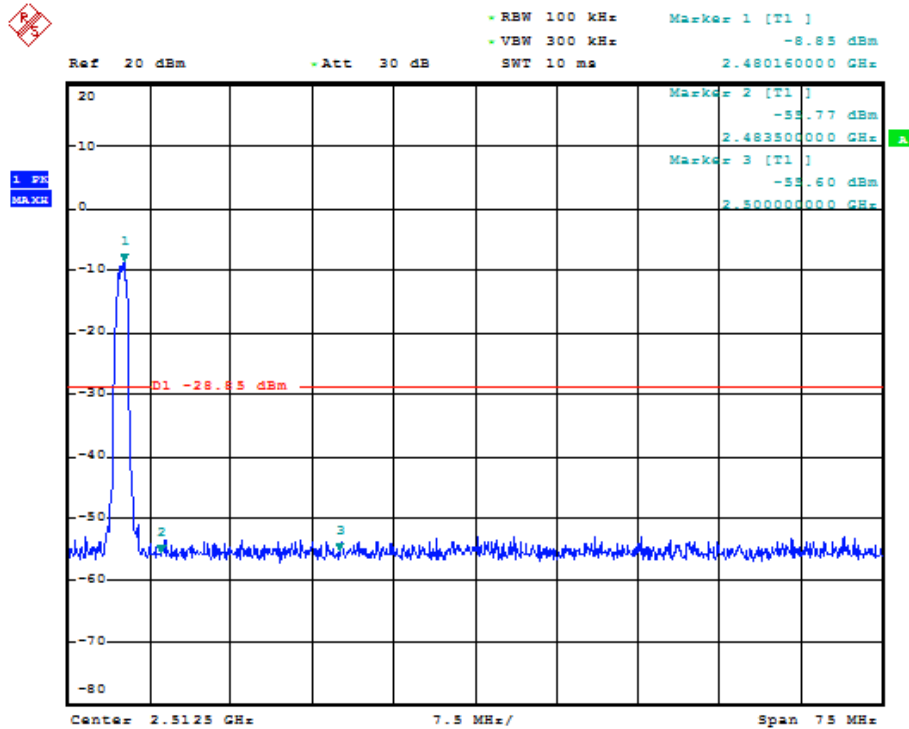
Test mode: 8DPSK

Test channel: Hopping disabled- 2402



Test mode: 8DPSK

Test channel: Hopping disabled- 2480



7.11 Radiated Spurious Emissions and Band-edge

Frequency Range: 9KHz to 25GHz

Test site/setup: Measurement Distance: 3m
Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
0.009MHz-0.090MHz	Peak	10kHz	30kHz
0.009MHz-0.090MHz	Average	10kHz	30kHz
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz
0.110MHz-0.490MHz	Peak	10kHz	30kHz
0.110MHz-0.490MHz	Average	10kHz	30kHz
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz
30MHz-1GHz	Quasi-peak	100kHz	300kHz
Above 1GHz	Peak	RBW=1MHz	VBW≥RBW
	Average		VBW=10Hz

Sweep=Auto

15.209 Limit:

Frequency	Limit (dBuV/m)
0.009MHz-0.490MHz	128.5 ~ 93.8
0.490MHz-1.705MHz	73.8 ~63.0
1.705MHz-30MHz	69.5
30MHz-88MHz	40.0
88MHz-216MHz	43.5
216MHz-960MHz	46.0
960MHz-1GHz	54.0
Above 1GHz	54.0

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.

Test Configuration: Receive antenna scan height 1 m - 4 m. polarization Vertical / Horizontal

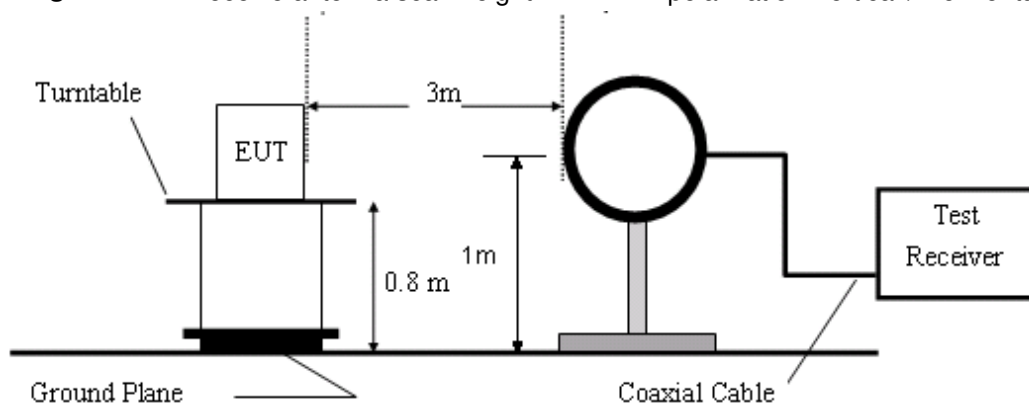


Figure1. Below 30MHz radiated emissions test configuration

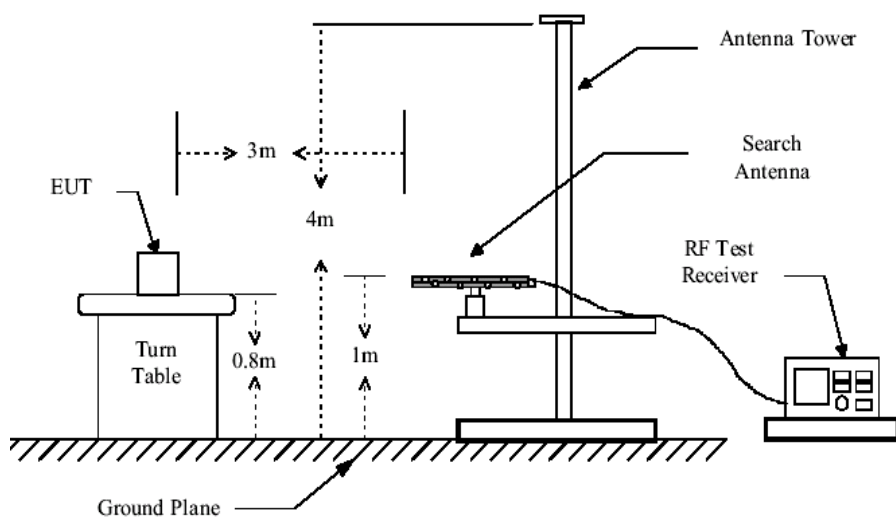


Figure2. 30MHz to 1GHz radiated emissions test configuration

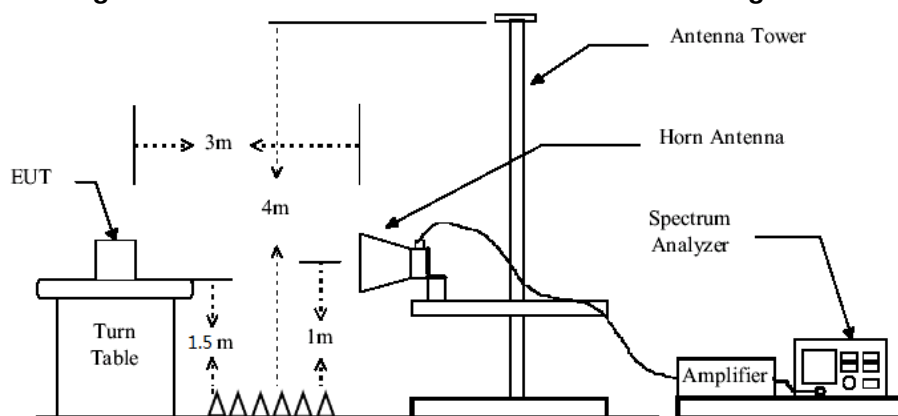


Figure3. Above 1GHz radiated emissions test configuration

Test Procedure:

- 1) The procedure used was ANSI Standard C63.10. The receiver was scanned from 9KHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.
- 2) Low noise amplifier was used below 1GHz, High pass Filter was used above 3GHz. Between 1G and 3GHz, we did not use any amplifier or filter.
- 3) Pre-test was performed on all modes, Compliance test was performed on worse case (GFSK mode).
 - a) Below 30 MHz, Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted.
 - b) For this intentional radiator operates below 25 GHz. the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5rd harmonic.
 - c) As shown in Section, for frequencies above 1000MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 4) No spurious emissions were detected within 20dB of limit below 30MHz.

Test Result:

Pass

7.11.1 Radiated Spurious Emissions

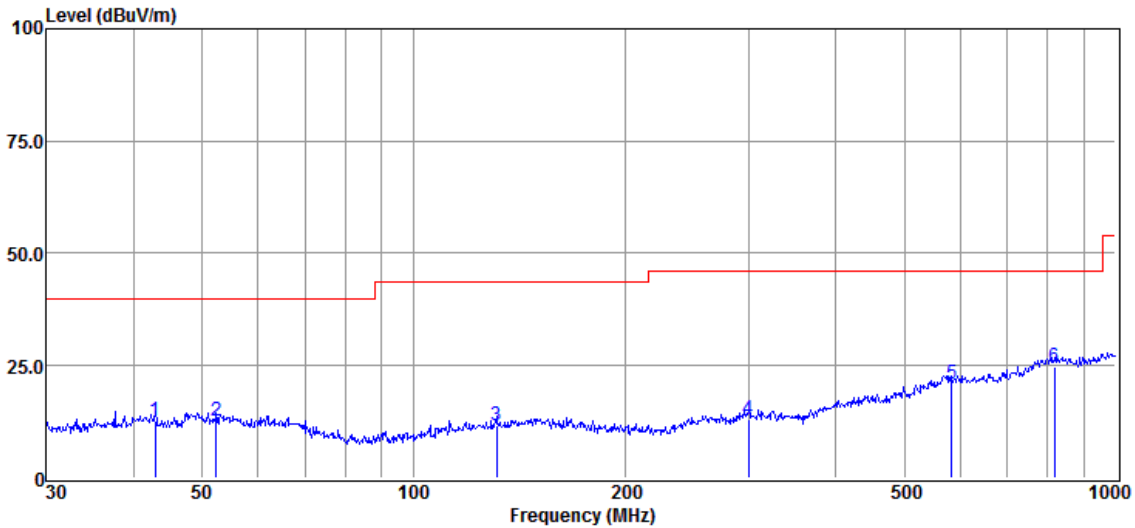
30MHz-1GHz:

lowest Channel

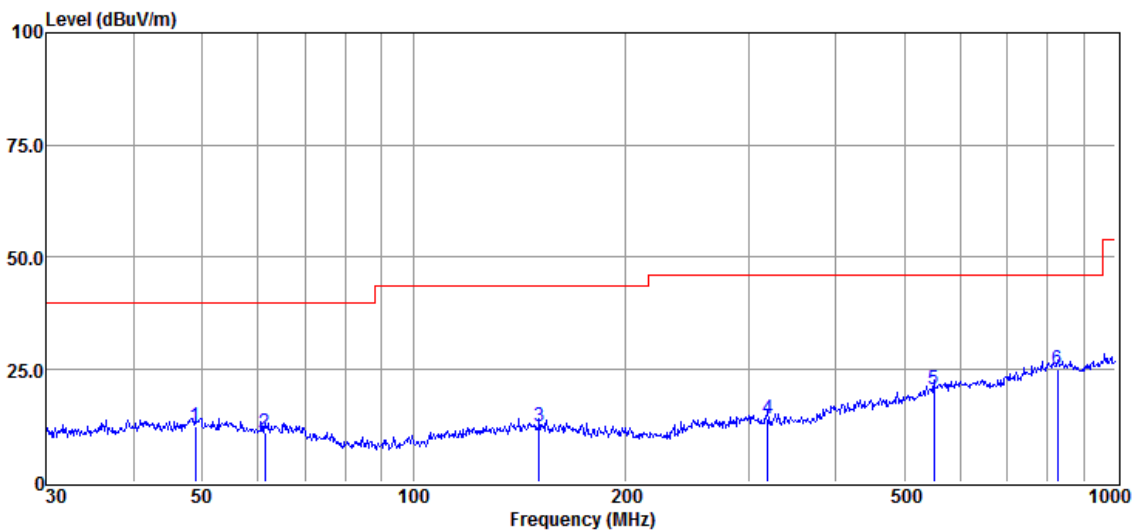
Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		
1	48.84	26.18	13.86	28.80	1.13	12.37	40.00	-27.63	QP	Horizontal
2	61.35	26.42	12.26	28.80	1.20	11.08	40.00	-28.92	QP	Horizontal
3	151.07	26.39	12.72	28.40	1.49	12.20	43.50	-31.30	QP	Horizontal
4	319.94	26.53	13.30	28.06	2.28	14.05	46.00	-31.95	QP	Horizontal
5	550.95	27.54	19.20	29.23	3.15	20.66	46.00	-25.34	QP	Horizontal
6	827.49	26.55	23.77	29.06	3.90	25.16	46.00	-20.84	QP	Horizontal
1	42.90	26.88	13.62	28.80	0.96	12.66	40.00	-27.34	QP	Vertical
2	52.39	26.68	13.52	28.80	1.15	12.55	40.00	-27.45	QP	Vertical
3	131.30	27.00	11.96	28.50	1.38	11.84	43.50	-31.66	QP	Vertical
4	300.37	25.25	13.50	27.90	2.25	13.10	46.00	-32.90	QP	Vertical
5	584.79	26.58	20.27	29.24	3.19	20.80	46.00	-25.20	QP	Vertical
6	818.83	26.37	23.69	29.07	3.87	24.86	46.00	-21.14	QP	Vertical

Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

Below is the plot of worst case on lowest channel:
Vertical:



Horizontal:



Above 1GHz:

Lowest Channel(2402MHz)

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4804	37.28	6.18	43.46	54	-10.54	peak	Horizontal
2	7206	35.87	10.63	46.5	54	-7.5	peak	Horizontal
3	9608	32.64	14.38	47.02	54	-6.98	peak	Horizontal
4	4804	34.26	6.18	40.44	54	-13.56	peak	Vertical
5	7206	34.94	10.63	45.57	54	-8.43	peak	Vertical
6	9608	32.84	14.38	47.22	54	-6.78	peak	Vertical

Middle Channel(2441MHz)

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4882	36.87	7	43.87	54	-10.13	peak	Horizontal
2	7323	37.82	11.13	48.95	54	-5.05	peak	Horizontal
3	9764	35.93	14.36	50.29	54	-3.71	peak	Horizontal
4	4882	36.54	7	43.54	54	-10.46	peak	Vertical
5	7323	36.94	11.13	48.07	54	-5.93	peak	Vertical
6	9764	34.83	14.36	49.19	54	-4.81	peak	Vertical

Highest Channel(2480MHz)

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4960	35.62	7.49	43.11	54	-10.89	peak	Horizontal
2	7440	38.64	11.65	50.29	54	-3.71	peak	Horizontal
3	9920	34.84	14.4	49.24	54	-4.76	peak	Horizontal
4	4960	37.56	7.49	45.05	54	-8.95	peak	Vertical
5	7440	35.74	11.65	47.39	54	-6.61	peak	Vertical
6	9920	32.65	14.4	47.05	54	-6.95	peak	Vertical

Remark: 1) Emission = Receiver Reading + Factor

2) Factor = Antenna Factor + Cable Loss + Pre-amplifier Factor.

3) If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

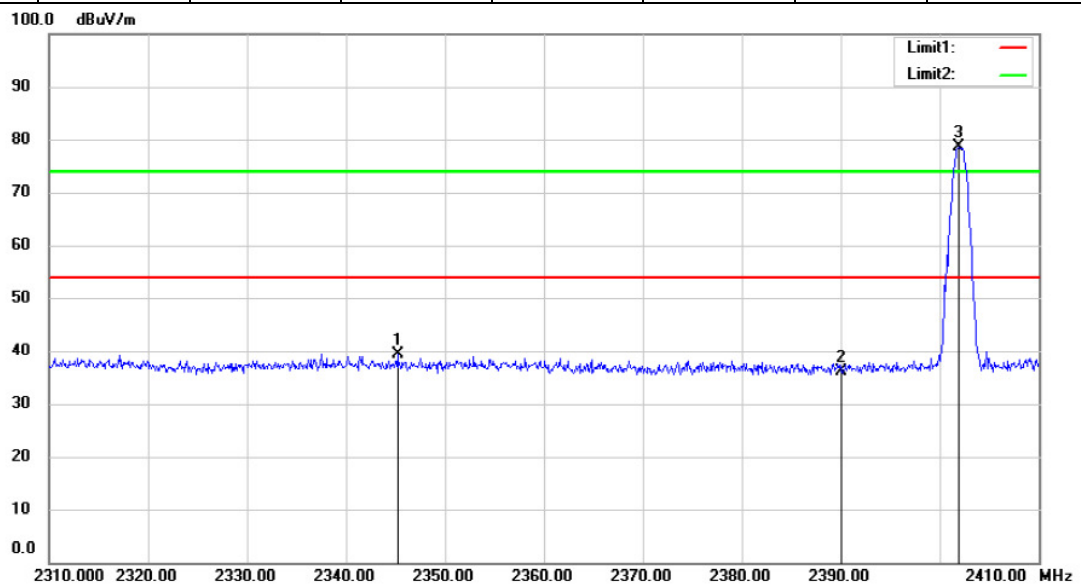
7.11.2 Radiated Band edge

Lowest Channel(2402MHz)

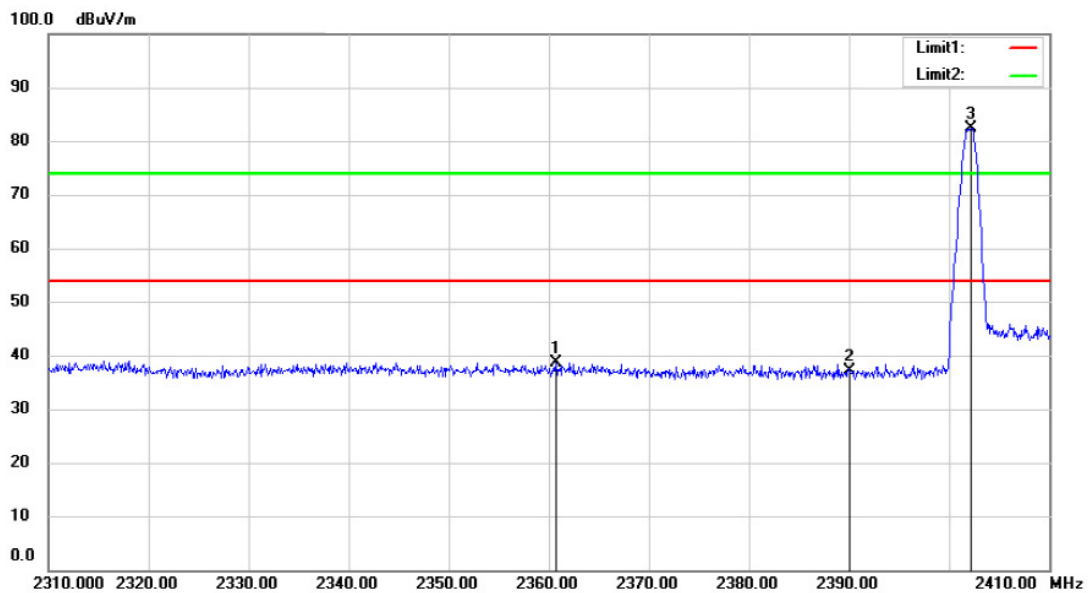
Modulation: GFSK

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2345.2	43.07	-3.76	39.31	54	-14.69	Peak	Vertical
2	2390	40.03	-3.89	36.14	54	-17.86	Peak	Vertical
3	2401.9	82.44	-3.91	78.53	54	24.53	Peak	Vertical
1	2360.7	42.52	-3.81	38.71	54	-15.29	Peak	Horizontal
2	2390	40.94	-3.89	37.05	54	-16.95	Peak	Horizontal
3	2402.2	86.22	-3.92	82.3	54	28.3	Peak	Horizontal

Vertical:



Horizontal:

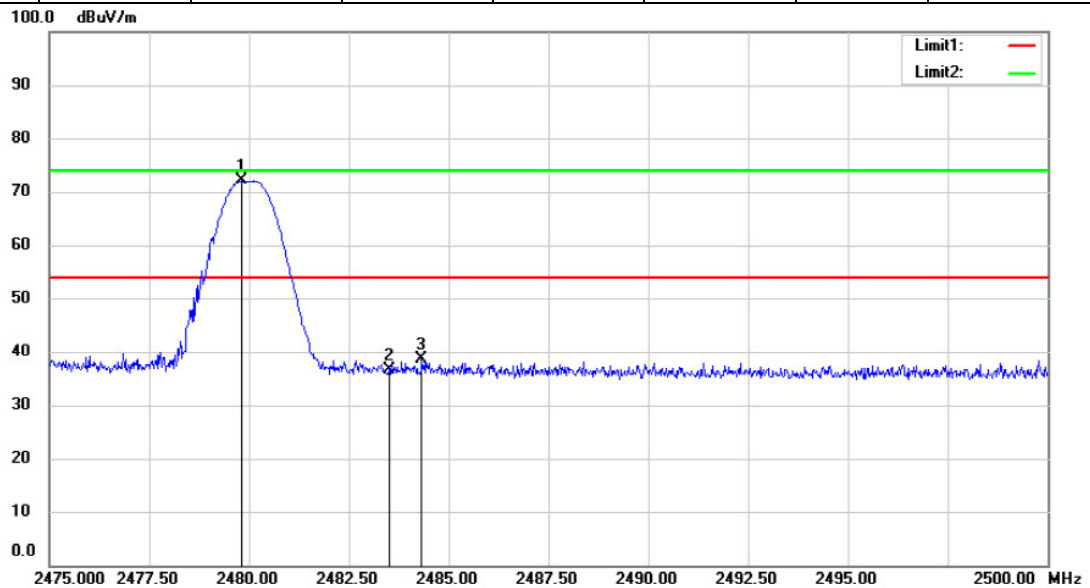


Highest Channel(2480MHz)

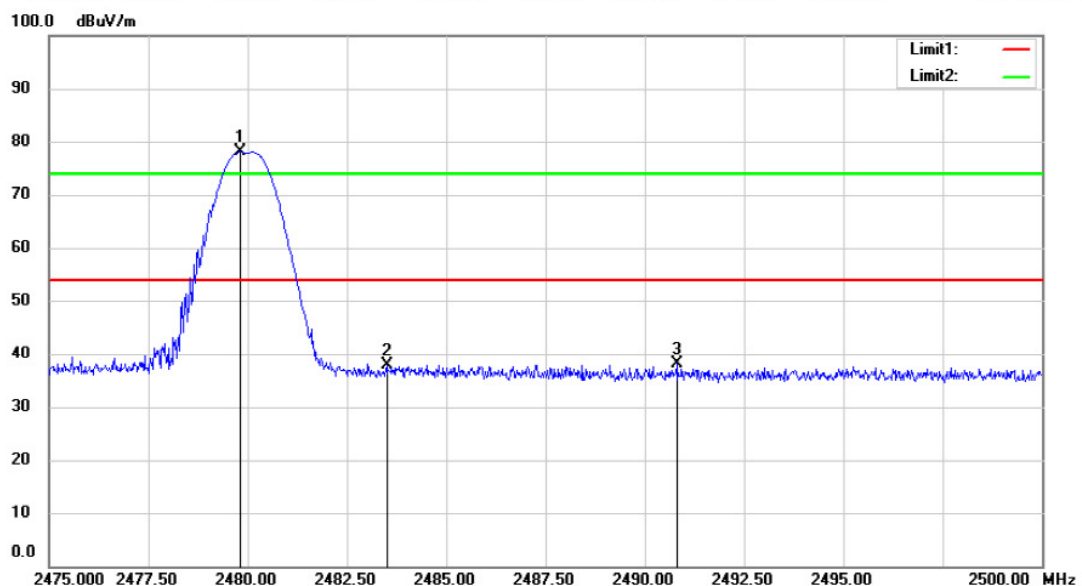
Modulation: GFSK

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2479.825	76.07	-4	72.07	54	18.07	Peak	Vertical
2	2483.5	40.72	-4.01	36.71	54	-17.29	Peak	Vertical
3	2484.325	42.67	-4.02	38.65	54	-15.35	Peak	Vertical
1	2479.825	82.1	-4	78.1	54	24.1	Peak	Horizontal
2	2483.5	41.88	-4.01	37.87	54	-16.13	Peak	Horizontal
3	2490.8	42.07	-4.02	38.05	54	-15.95	Peak	Horizontal

Vertical:



Horizontal:

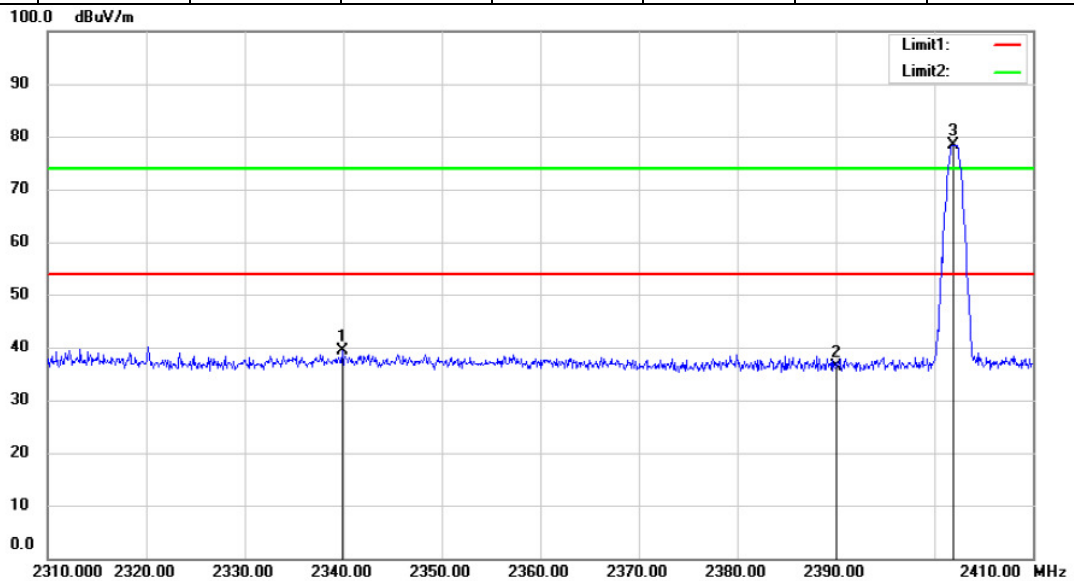


Lowest Channel(2402MHz)

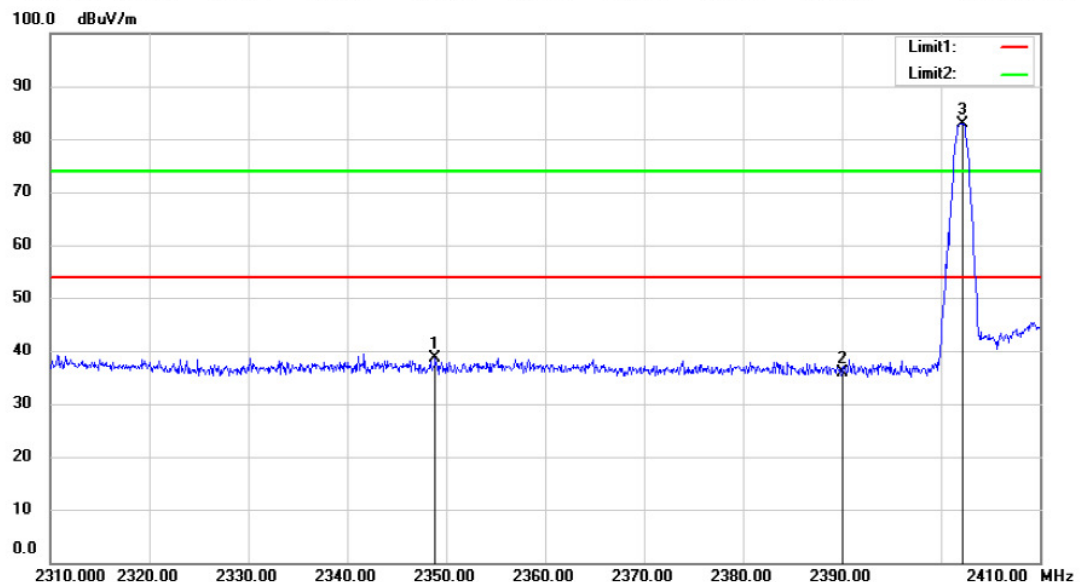
Modulation: $\pi/4$ DQPSK

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2339.9	43	-3.74	39.26	54	-14.74	Peak	Vertical
2	2390	40.23	-3.89	36.34	54	-17.66	Peak	Vertical
3	2401.9	82.39	-3.91	78.48	54	24.48	Peak	Vertical
1	2348.9	42.48	-3.76	38.72	54	-15.28	Peak	Horizontal
2	2390	39.77	-3.89	35.88	54	-18.12	Peak	Horizontal
3	2402.2	86.82	-3.92	82.9	54	28.9	Peak	Horizontal

Vertical:



Horizontal:

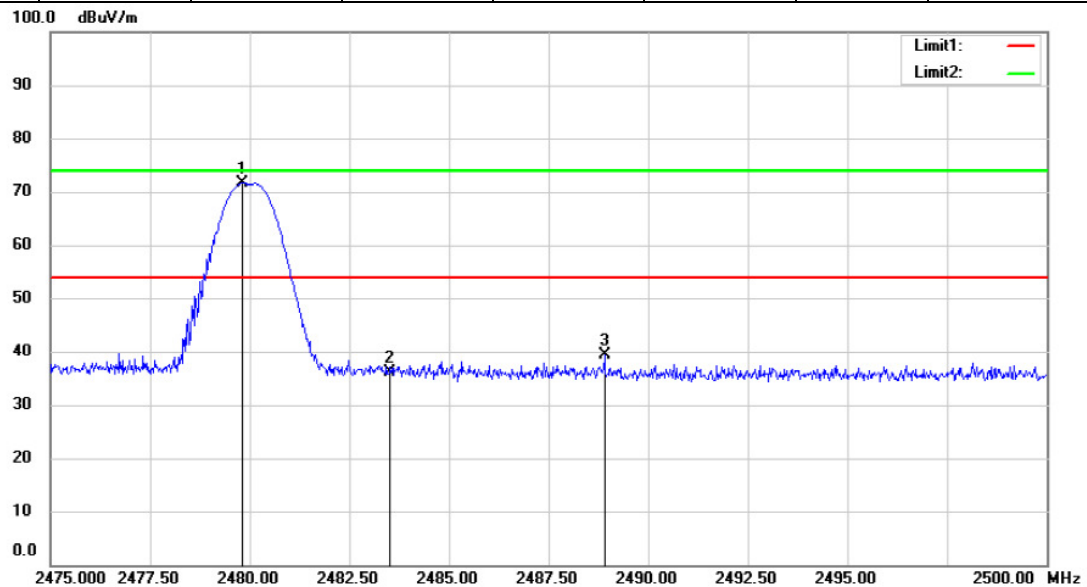


Highest Channel(2480MHz)

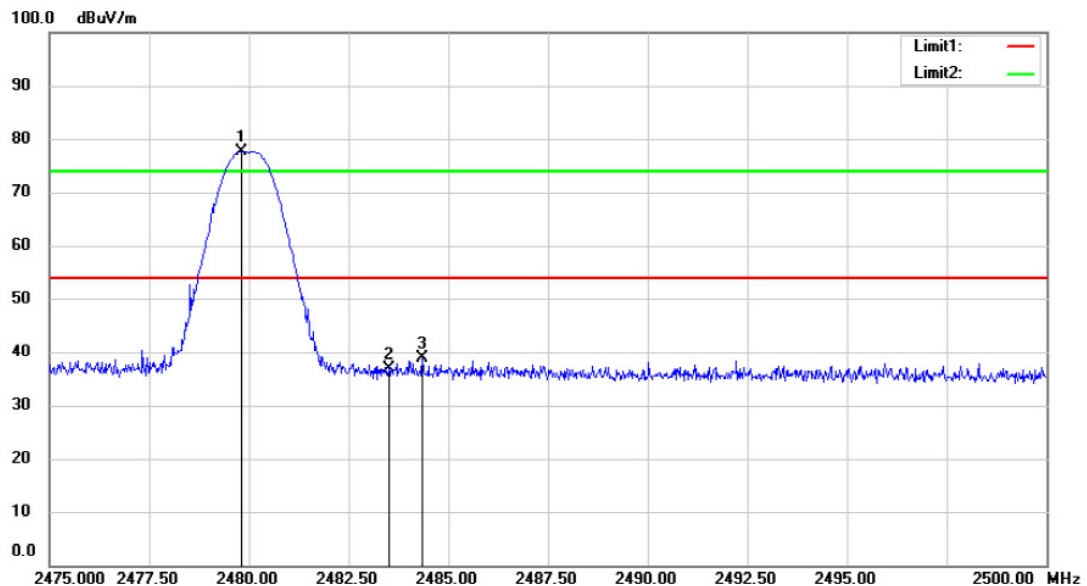
Modulation: $\pi/4$ DQPSK

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2479.8	75.57	-4	71.57	54	17.57	Peak	Vertical
2	2483.5	40.13	-4.01	36.12	54	-17.88	Peak	Vertical
3	2488.9	43.31	-4.02	39.29	54	-14.71	Peak	Vertical
1	2479.825	81.64	-4	77.64	54	23.64	Peak	Horizontal
2	2483.5	40.78	-4.01	36.77	54	-17.23	Peak	Horizontal
3	2484.35	42.94	-4.02	38.92	54	-15.08	Peak	Horizontal

Vertical:



Horizontal:

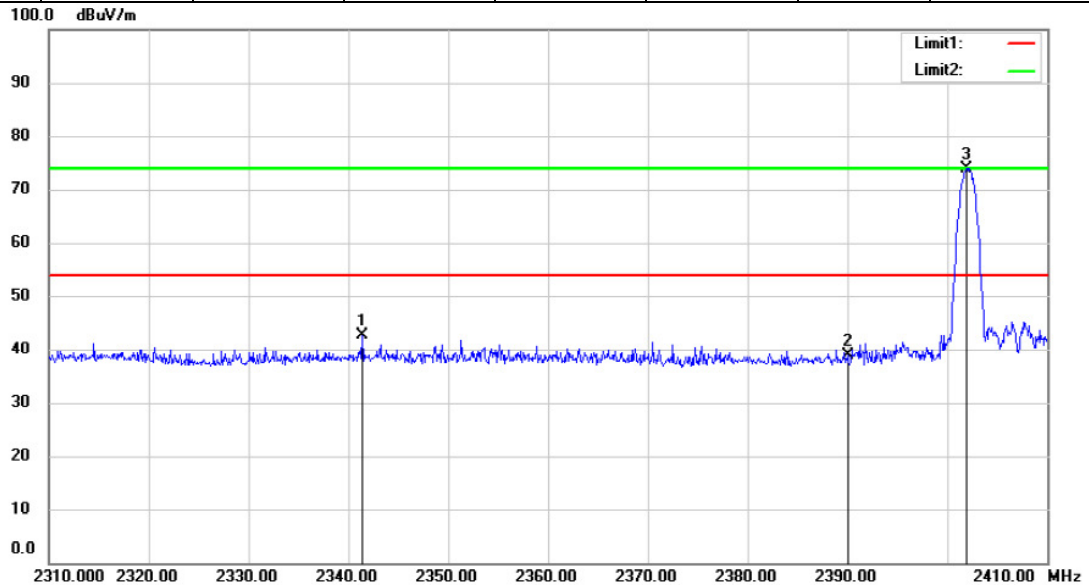


Lowest Channel(2402MHz)

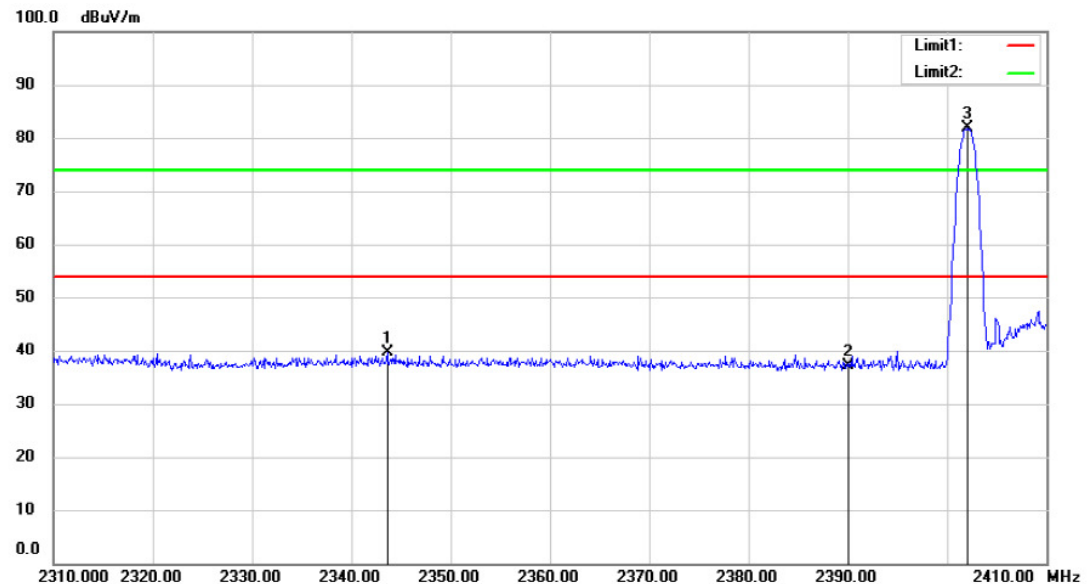
Modulation: 8DPSK

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2341.4	46.28	-3.75	42.53	54	-11.47	Peak	Vertical
2	2390	42.65	-3.89	38.76	54	-15.24	Peak	Vertical
3	2401.9	77.85	-3.91	73.94	54	19.94	Peak	Vertical
1	2343.6	43.47	-3.75	39.72	54	-14.28	Peak	Horizontal
2	2390	41.03	-3.89	37.14	54	-16.86	Peak	Horizontal
3	2402.1	85.82	-3.92	81.9	54	27.9	Peak	Horizontal

Vertical:



Horizontal:

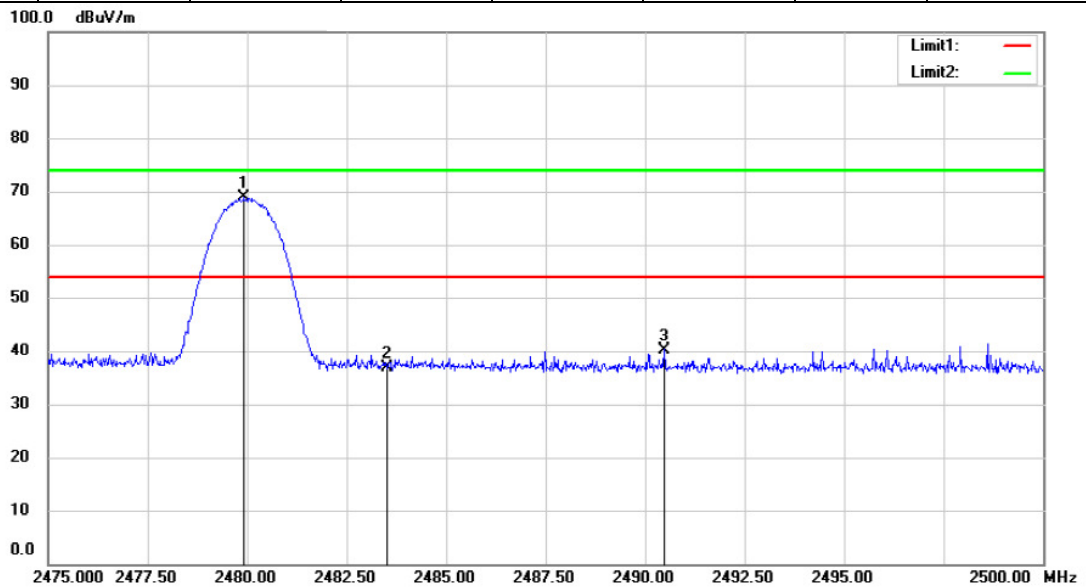


Highest Channel(2480MHz)

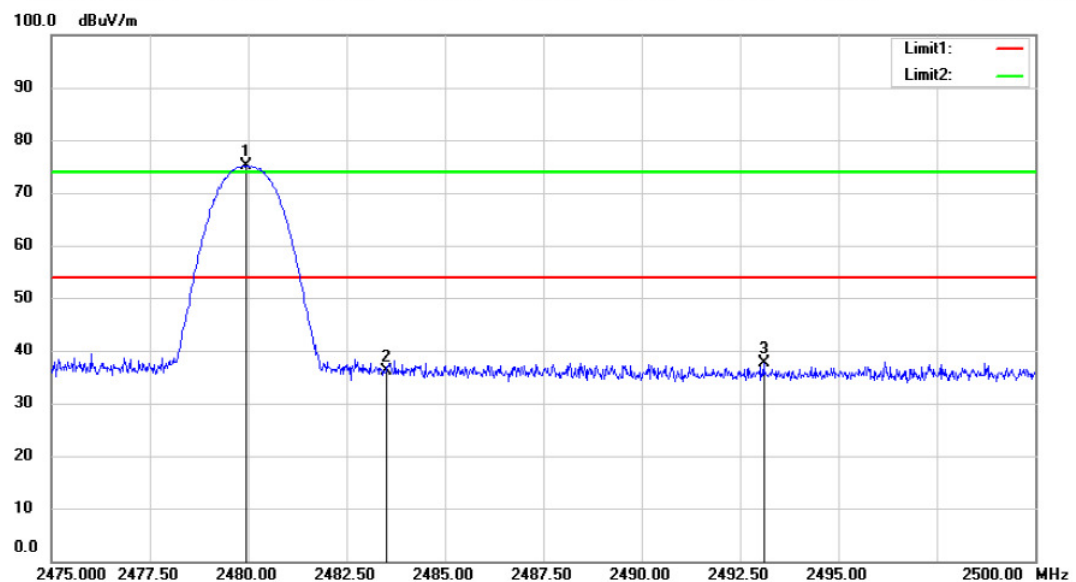
Modulation: 8DPSK

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2479.925	72.98	-4	68.98	54	14.98	Peak	Vertical
2	2483.5	40.89	-4.01	36.88	54	-17.12	Peak	Vertical
3	2490.475	44.26	-4.01	40.25	54	-13.75	Peak	Vertical
1	2479.95	79.23	-4	75.23	54	21.23	Peak	Horizontal
2	2483.5	40.16	-4.01	36.15	54	-17.85	Peak	Horizontal
3	2493.1	41.74	-4.02	37.72	54	-16.28	Peak	Horizontal

Vertical:



Horizontal:





- Remark: 1). Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor
2). If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

All frequencies within the "Restricted bands" have been evaluated to compliance. Except as shown in paragraph of this section, only spurious emissions are permitted in any of the frequency bands listed below:

a. FCC Part 15, Subpart C Section 15.205 Restricted bands of operation.

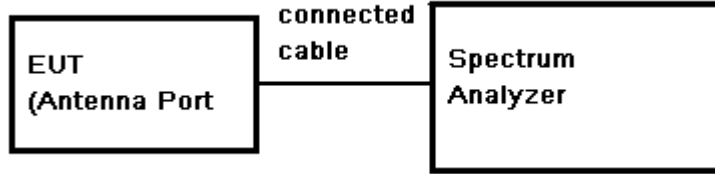
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.5 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			

b. RSS-Gen section 7.2.2 Restricted bands of operation

MHz	MHz	GHz
0.090-0.110	240-285	9.0-9.2
2.1735-2.1905	322-335.4	9.3-9.5
3.020-3.026	399.9-410	10.6-12.7
4.125-4.128	608-614	13.25-13.4
4.17725-4.17775	960-1427	14.47-14.5
4.20725-4.20775	1435-1626.5	15.35-16.2
5.677-5.683	1645.5-1646.5	17.7-21.4
6.215-6.218	1660-1710	22.01-23.12
6.26775-6.26825	1718.8-1722.2	23.6-24.0
6.31175-6.31225	2200-2300	31.2-31.8
8.291-8.294	2310-2390	36.43-36.5
8.362-8.366	2655-2900	Above 38.6
8.37625-8.38675	3260-3267	
8.41425-8.41475	3332-3339	
12.29-12.293	3345.8-3358	
12.51975-12.52025	3500-4400	
12.57675-12.57725	4500-5150	
13.36-13.41	5350-5460	
16.42-16.423	7250-7750	
16.69475-16.69525	8025-8500	
16.80425-16.80475		
25.5-25.67		
37.5-38.25		
73-74.6		
74.8-75.2		
108-138		
156.52475-156.52525		
156.7-156.9		

7.12 99% Occupied Bandwidth

Test Configuration:



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: Span = approximately 2 to 3 times the 20dB bandwidth, centred on the hopping channel;
- 3) Set the spectrum analyzer: RBW \geq 1% of the selected span (set 30 kHz). VBW \geq RBW. Sweep = auto; Detector Function = Peak. Trace = Max Hold.
- 4) Mark the peak frequency and 99% bandwidth points.

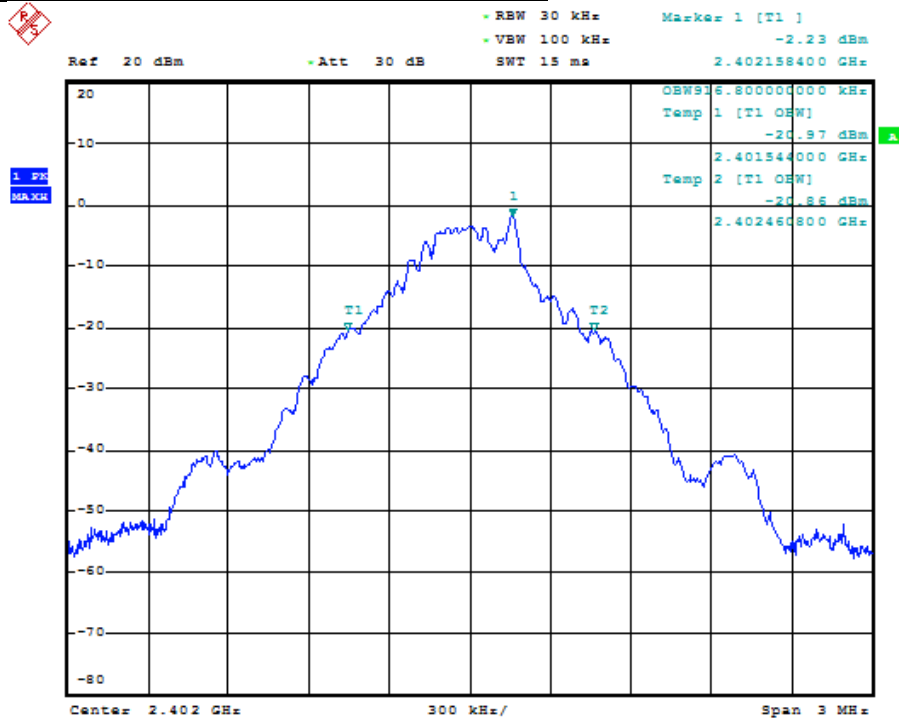
Test Date:

Test Mode	Test Frequency(MHz)	Bandwidth(MHz)
GFSK	2402	0.917
	2441	0.917
	2480	0.922
$\pi/4$ DQPSK	2402	0.926
	2441	0.926
	2480	0.926
8DPSK	2402	1.205
	2441	1.205
	2480	1.205

Test plot as follows:

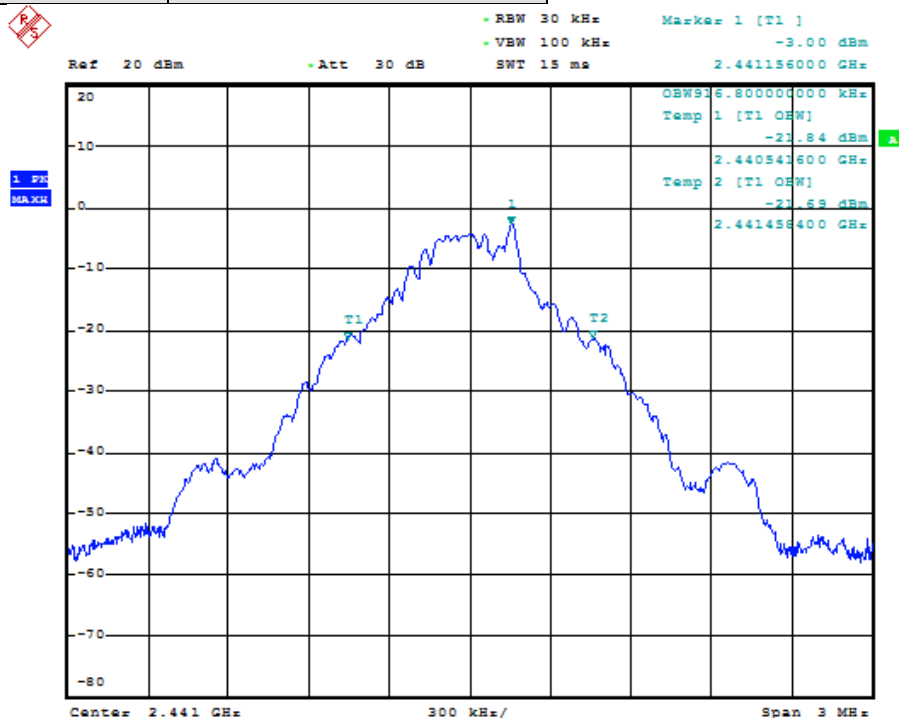
Test mode: GFSK

Test channel: 2402



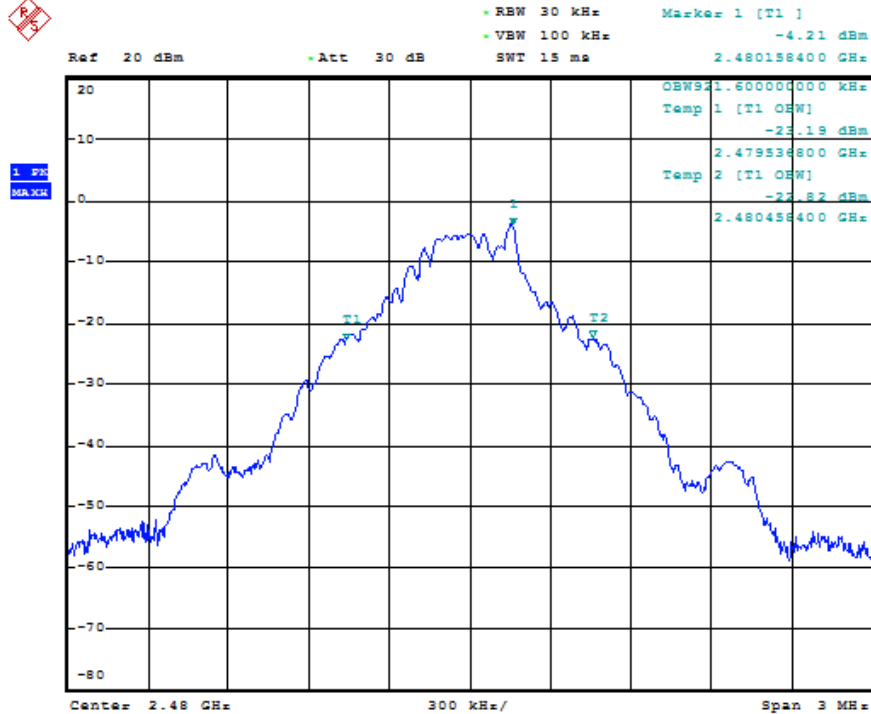
Test mode: GFSK

Test channel: 2441



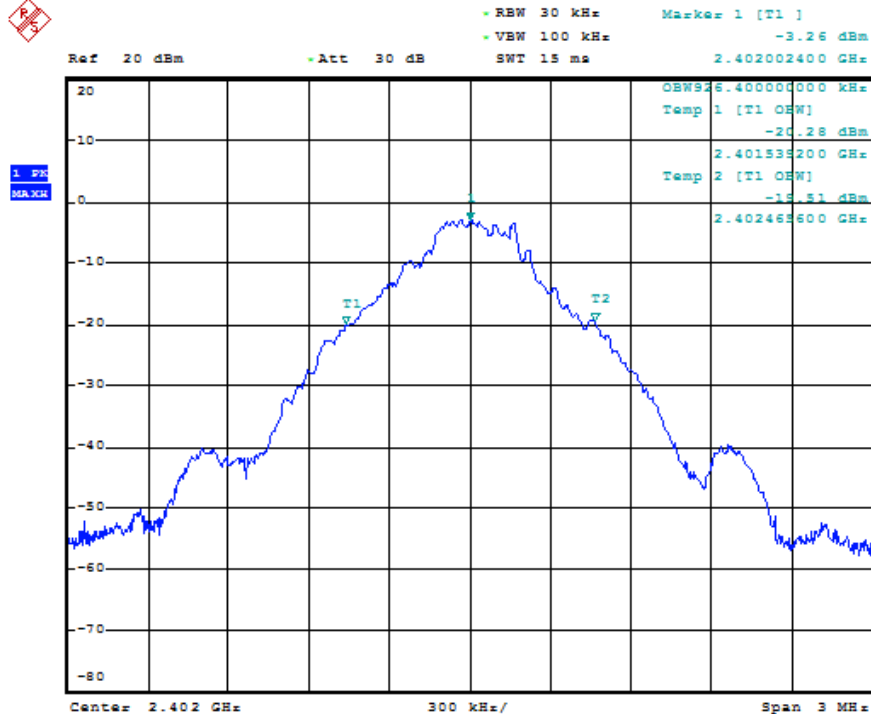
Test mode: GFSK

Test channel: 2480



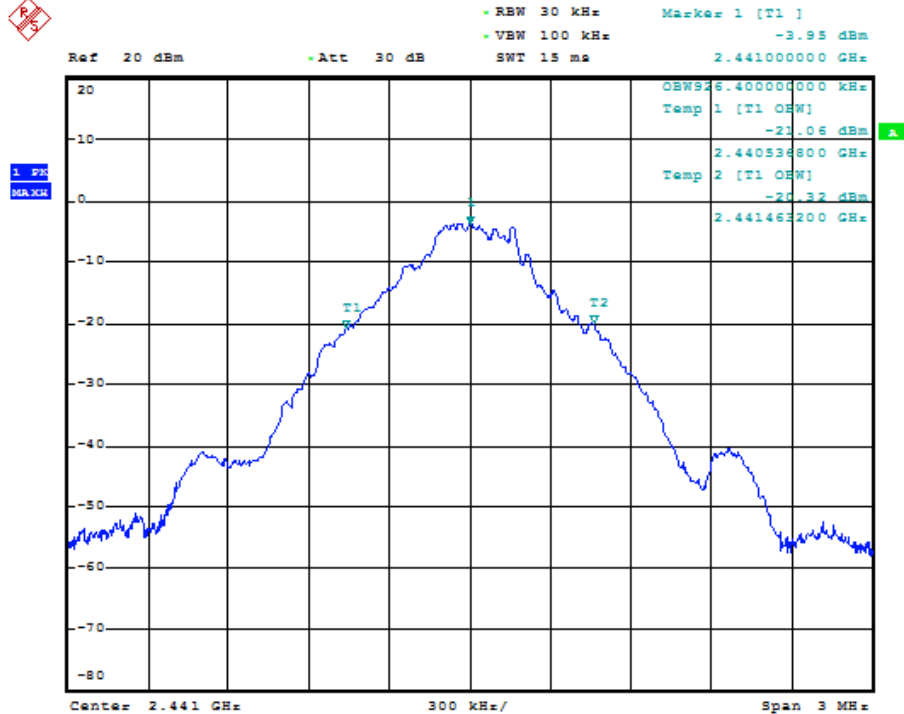
Test mode: $\pi/4$ DQPSK

Test channel: 2402



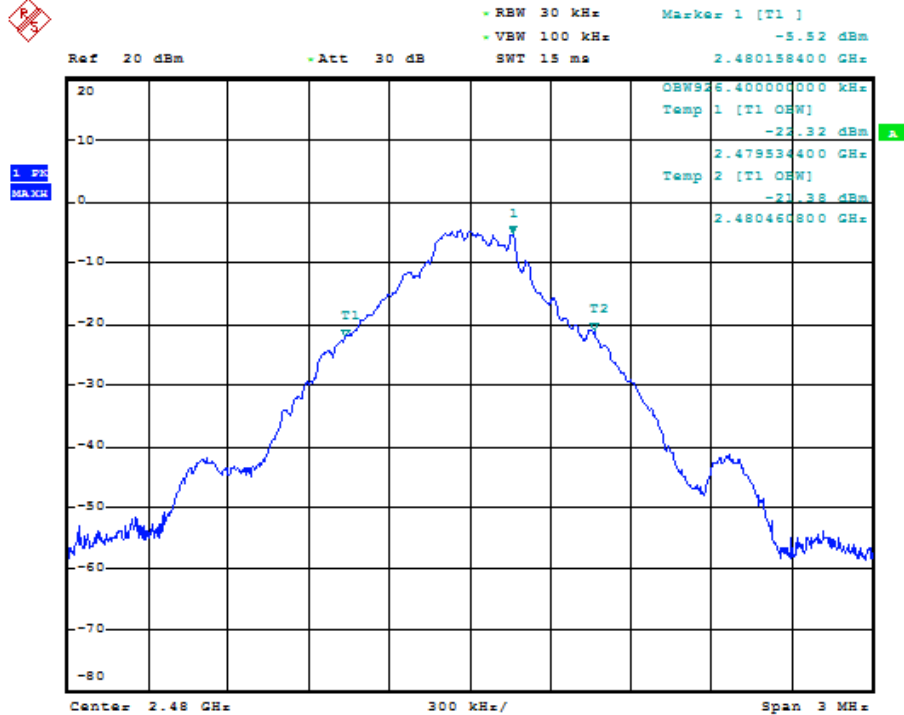
Test mode: $\pi/4$ DQPSK

Test channel: 2441



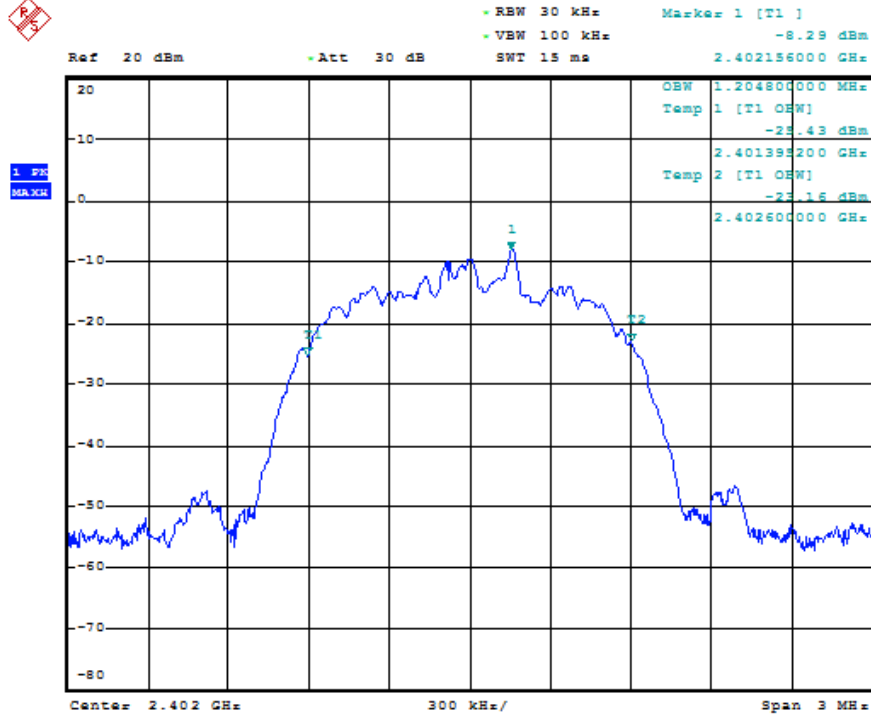
Test mode: $\pi/4$ DQPSK

Test channel: 2480



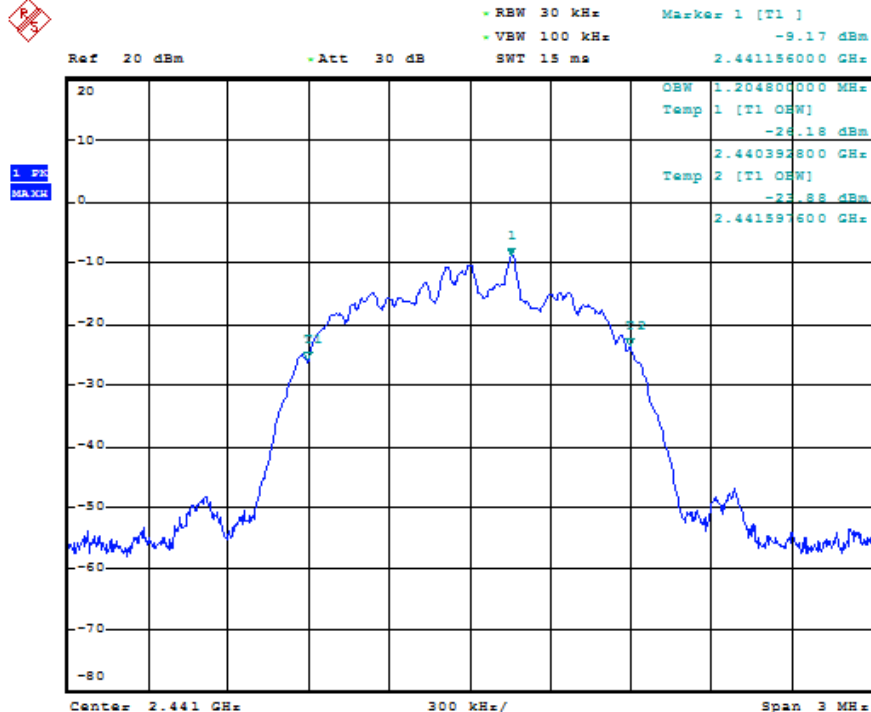
Test mode: 8DPSK

Test channel: 2402



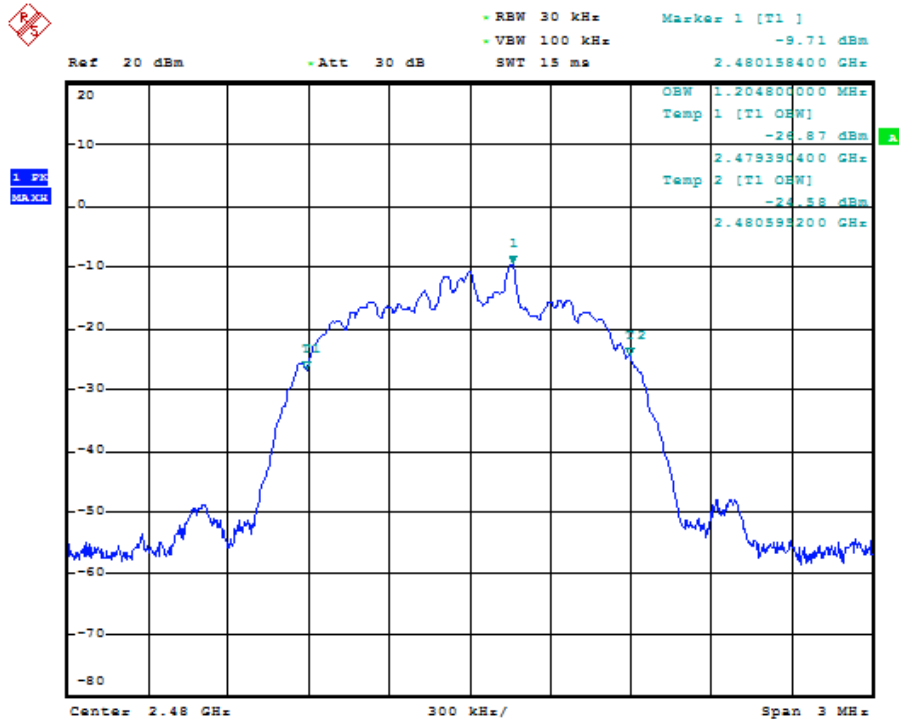
Test mode: 8DPSK

Test channel: 2441



Test mode: 8DPSK

Test channel: 2480



8 Test Setup Photographs

Refer to the < A1612 _Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < A1612 _External Photos > & < A1612 _Internal Photos>.

--End of the Report--