



TESTING LABORATORY
CERTIFICATE#4323.01



FCC PART 15.247 TEST REPORT

For

Shanghai Sunmi Technology Co.,Ltd.

Room 505, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai, China

FCC ID: 2AH25T5940

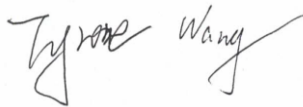
Report Type: Original Report	Product Type: Wireless data POS System
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TABLE OF CONTENTS

GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
RELATED SUBMITTAL(S)/GRANT(S)	4
TEST METHODOLOGY	5
MEASUREMENT UNCERTAINTY	5
TEST FACILITY	5
SYSTEM TEST CONFIGURATION	6
DESCRIPTION OF TEST CONFIGURATION	6
EUT EXERCISE SOFTWARE	6
SPECIAL ACCESSORIES	6
EQUIPMENT MODIFICATIONS	6
SUPPORT EQUIPMENT LIST AND DETAILS	7
EXTERNAL I/O CABLE	7
BLOCK DIAGRAM OF TEST SETUP	7
SUMMARY OF TEST RESULTS	9
TEST EQUIPMENT LIST	10
FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION	11
TEST RESULT	11
FCC §15.203 – ANTENNA REQUIREMENT	12
APPLICABLE STANDARD	12
ANTENNA CONNECTOR CONSTRUCTION	12
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	13
APPLICABLE STANDARD	13
EUT SETUP	13
EMI TEST RECEIVER SETUP	13
TEST PROCEDURE	14
FACTOR & MARGIN CALCULATION	14
TEST RESULTS SUMMARY	14
TEST DATA	14
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS	17
APPLICABLE STANDARD	17
EUT SETUP	17
EMI TEST RECEIVER SETUP	18
TEST PROCEDURE	18
CORRECTED AMPLITUDE & MARGIN CALCULATION	18
TEST RESULTS SUMMARY	18
TEST DATA	18
FCC §15.247(a) (1)-CHANNEL SEPARATION TEST	30
APPLICABLE STANDARD	30
TEST PROCEDURE	30
TEST DATA	30
FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH	36
APPLICABLE STANDARD	36
TEST PROCEDURE	36
TEST DATA	36

FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST	42
APPLICABLE STANDARD	42
TEST PROCEDURE	42
TEST DATA	42
FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME).....	45
APPLICABLE STANDARD	45
TEST PROCEDURE	45
TEST DATA	45
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT	61
APPLICABLE STANDARD	61
TEST PROCEDURE	61
TEST DATA	61
FCC §15.247(d) - BAND EDGES TESTING	68
APPLICABLE STANDARD	68
TEST PROCEDURE	68
TEST DATA	68

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Product Type:	Wireless data POS System
Tested Model:	T5940
Power Supply:	DC 7.7V from battery and DC 5.0V from adapter
Maximum Output Power:	GFSK: 9.91 dBm π /4-DQPSK: 9.63 dBm 8DPSK: 9.63 dBm
RF Function:	Classic BT
Operating Band/Frequency:	2402-2480 MHz
Channel Number:	79
Channel Separation:	1 MHz
Modulation Type:	GFSK, π /4-DQPSK, 8DPSK
Antenna Type:	FPC Antenna
*Maximum Antenna Gain:	2.0 dBi

Adapter-1 Information:

Model: TPA-23A050200UU01

Input: AC100-240V 50/60Hz 0.3A

Output: DC5.0V, 2000mA

Adapter-2 Information:

Model: UC13US

Input: AC100-240V 50/60Hz 0.35A

Output: DC5.0V, 2A

Note: The Maximum Antenna Gain was declared by the manufacturer.

*All measurement and test data in this report was gathered from production sample serial number:

RKSA210422002-1 (Assigned by BACL, Kunshan). The EUT supplied by the applicant was received on 2021-04-22.

Note: This product model (T5940) has three different configurations, only the worst case configuration With Scan code (Version: B-B) data was in report .

Objective

This test report is prepared on behalf of *Shanghai Sunmi Technology Co.,Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine Compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DTS submissions with FCC ID: 2AH25T5940

FCC Part 15.407 NII submissions with FCC ID: 2AH25T5940

FCC Part 22H/24E/27/90 PCB submissions with FCC ID: 2AH25T5940

FCC Part 15.225 DXX submissions with FCC ID: 2AH25T5940

FCC Part 15B JBP submissions with FCC ID: 2AH25T5940

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0℃
Humidity		6%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01), the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	...	...
...	...	...	...
...	...	78	2480
39	2441	/	/

EUT was tested with Channel 0, 39 and 78.

EUT Exercise Software

RF Test Tool: The EUT tested in engineering mode.

GFSK, $\pi/4$ -DQPSK, 8DPSK Power level: Default

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

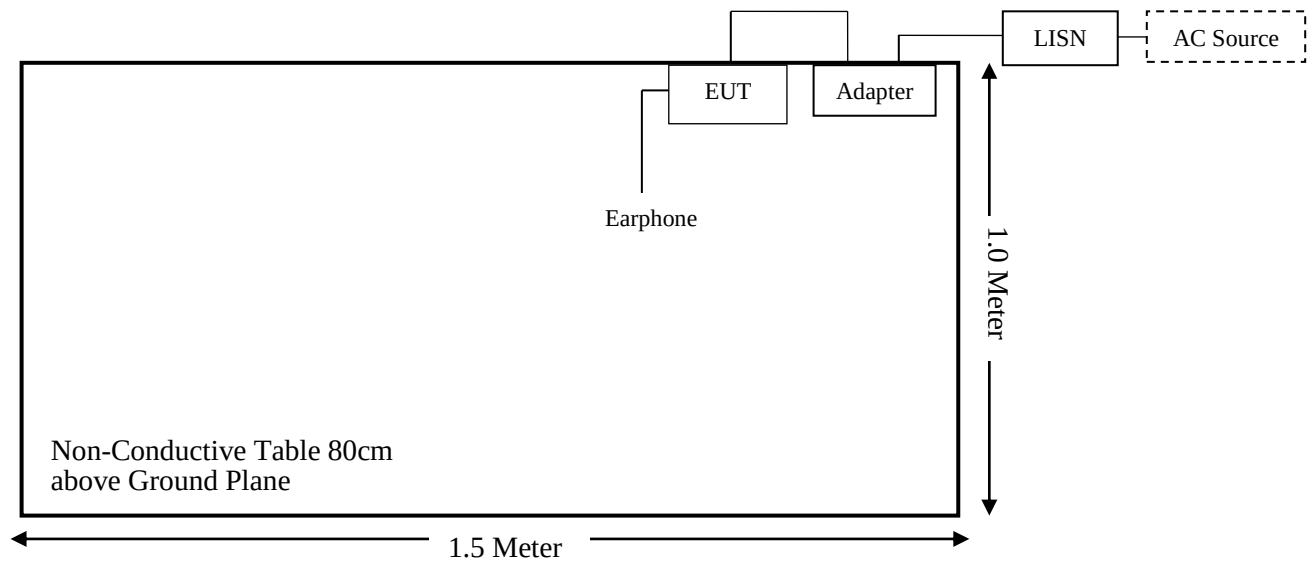
Manufacturer	Description	Model	Serial Number
/	Earphone	/	/

External I/O Cable

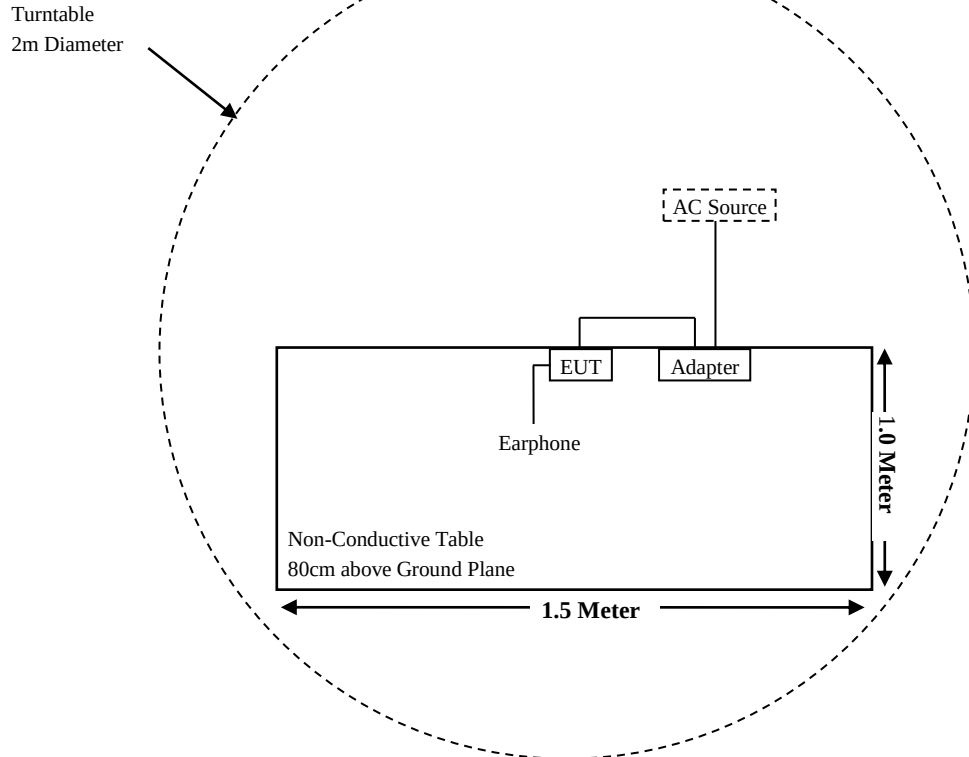
Cable Description	Length (m)	From Port	To
Power cable1	1.0	EUT	Adapter
Power cable2	1.0	Adapter	LISN/AC Source

Block Diagram of Test Setup

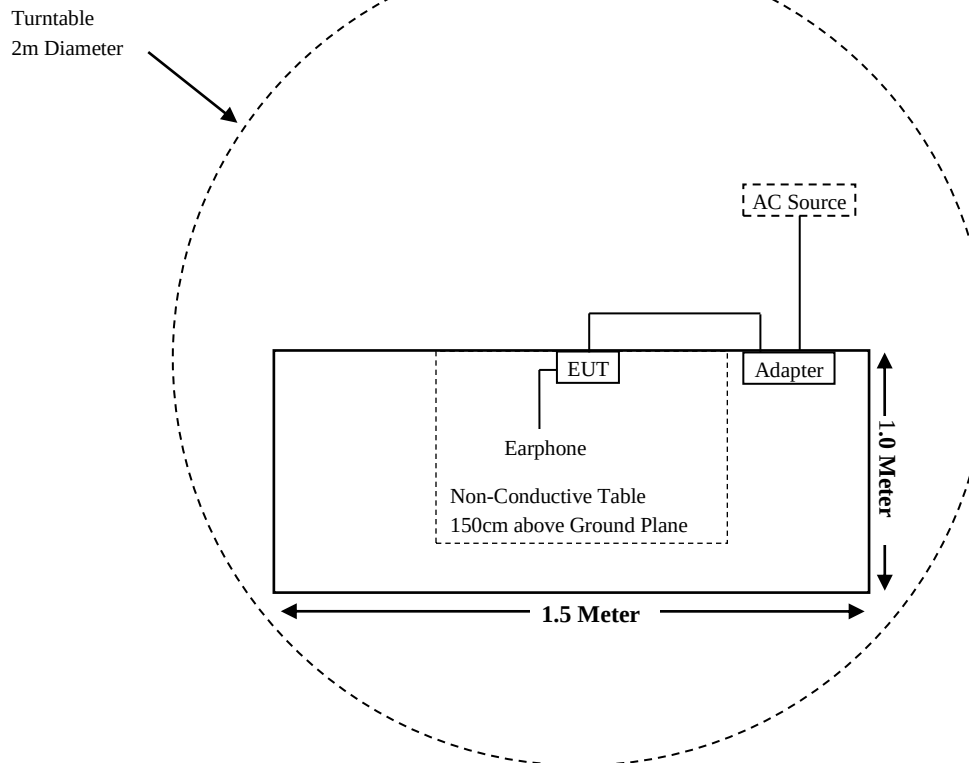
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307(b)(1) & §2.1093	RF Exposure Information	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209 & §15.247(d)	Radiated Emissions & Restricted Bands Emissions	Compliant
§15.247(a)(1)	20 dB Emission Bandwidth	Compliant
§15.247(a)(1)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	Peak Output Power Measurement	Compliant
§15.247(d)	Band edges	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2020-11-27	2021-11-26
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2020-01-07	2023-01-06
Sonoma Instrument	Pre-amplifier	310N	171205	2020-08-14	2021-08-13
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2020-08-15	2021-08-14
Radiated Emission Test (Chamber 2#)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2021-04-01	2022-03-31
ETS	Horn Antenna	3115	9311-4159	2020-07-15	2023-07-14
ETS-LINDGREN	Horn Antenna	3116	2516	2020-01-07	2023-01-06
A.H.Systems,inc	Amplifier	PAM-0118P	512	2020-08-14	2021-08-13
EM Electronics Corporation	Amplifier	EM18G40G	060726	2021-03-22	2022-03-21
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2020-08-05	2021-08-04
Narda	Attenuator	10dB	010	2020-08-15	2021-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-4	004	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-5	005	2020-08-15	2021-08-14
RF Conducted Test					
Rohde & Schwarz	EMI Test Receiver	ESIB26	100146	2020-11-27	2021-11-26
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2020-07-28	2021-07-27
Narda	Attenuator	10dB	010	2020-08-15	2021-08-14
Sunmi	RF Cable	Sunmi C01	C01	Each Time	/
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2020-07-28	2021-07-27
Rohde & Schwarz	LISN	ENV216	101115	2020-12-14	2021-12-13
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	100552	2020-08-10	2021-08-09
MICRO-COAX	Coaxial Cable	Cable-15	015	2020-08-15	2021-08-14

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

FCC §1.1307, §2.1093.

Test Result

Compliance, please refer to the SAR report: RKSA210422002-20A

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Antenna Connector Construction

The EUT has an FPC antenna for Bluetooth which the antenna gain is 2.0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

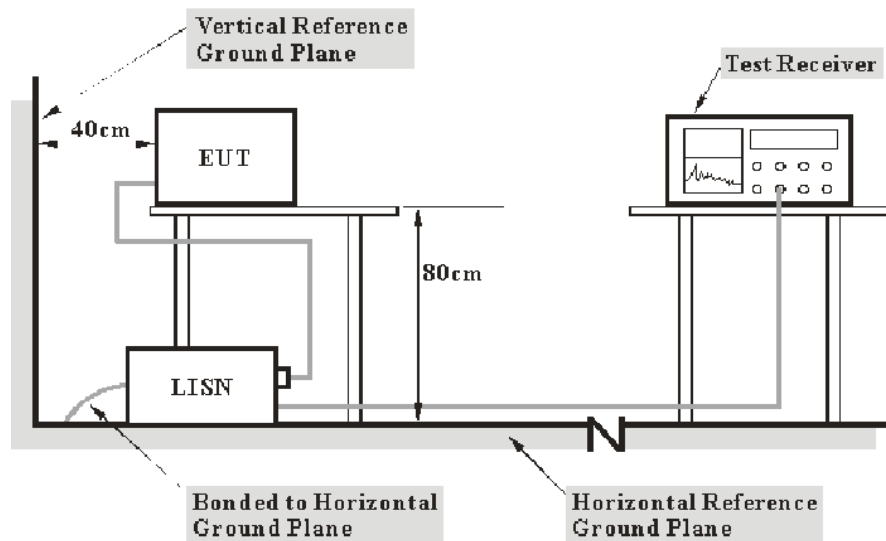
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

<u>Frequency Range</u>	<u>IF B/W</u>
150 kHz – 30 MHz	9 kHz

Test Procedure

ANSI C63.10-2013 clause 6.2

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

Factor & Margin Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Attenuator. The basic equation is as follows:

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Attenuator (dB)}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over Limit of 7dB means the emission is 7 dB above the limit. The equation for over Limit calculation is as follows:

$$\text{Over Limit (dB)} = \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)} - \text{Limit (dB}\mu\text{V)}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data

Environmental Conditions

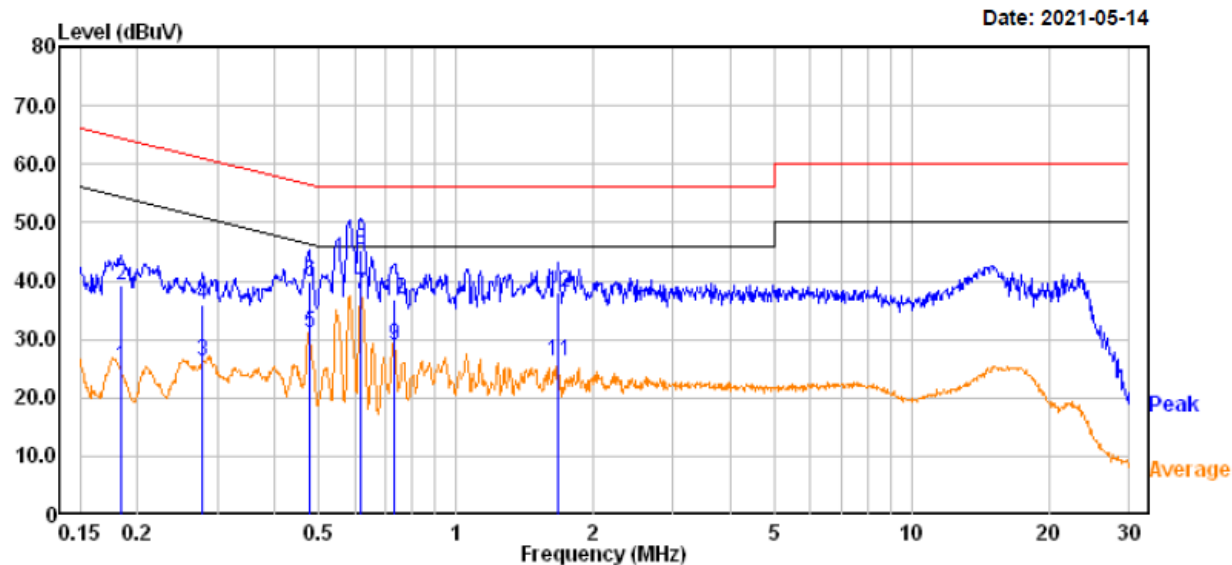
Temperature:	23.6 °C
Relative Humidity:	49 %
ATM Pressure:	101.2 kPa

The testing was performed by Tyrone Wang on 2021-05-14.

EUT operation mode: Transmitting in high channel of GFSK mode (worst case)

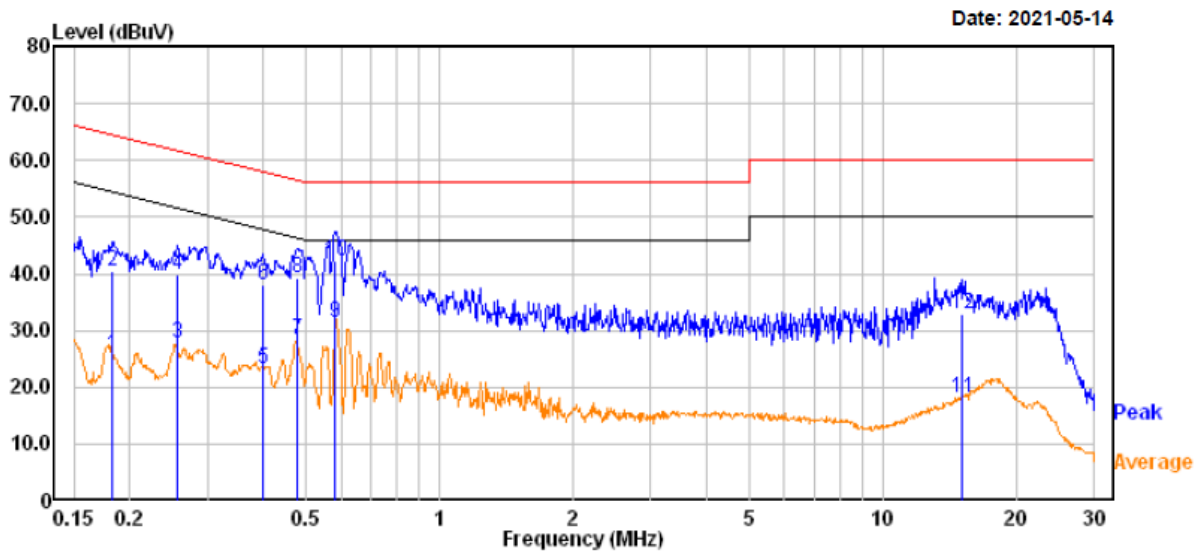
Note: Both Adapter1 and Adapter2 have been tested, the worst Adapter1 data were recorded in this report.

AC 120V/60 Hz, Line



	Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB	dBuV	dBuV	dB
1	0.184	5.64	19.83	25.47	54.30	-28.83 Average
2	0.184	19.40	19.83	39.23	64.30	-25.07 QP
3	0.278	6.48	19.82	26.30	50.87	-24.57 Average
4	0.278	16.20	19.82	36.02	60.87	-24.85 QP
5	0.477	11.43	19.76	31.19	46.40	-15.21 Average
6	0.477	20.10	19.76	39.86	56.40	-16.54 QP
7	0.618	17.93	19.75	37.68	46.00	-8.32 Average
8	0.618	25.60	19.75	45.35	56.00	-10.65 QP
9	0.732	9.24	19.73	28.97	46.00	-17.03 Average
10	0.732	17.00	19.73	36.73	56.00	-19.27 QP
11	1.682	6.44	19.84	26.28	46.00	-19.72 Average
12	1.682	18.20	19.84	38.04	56.00	-17.96 QP

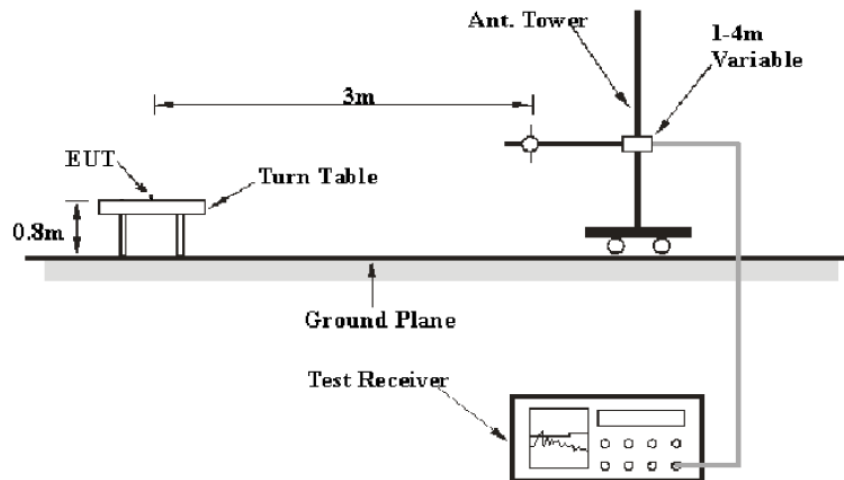
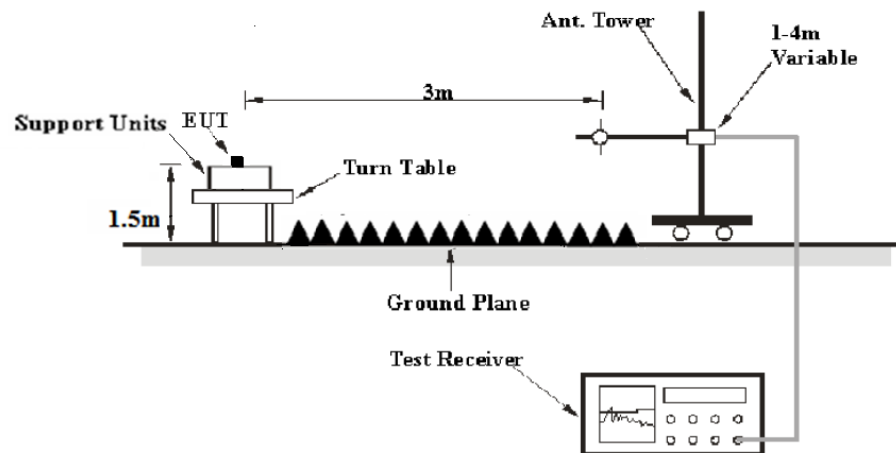
AC 120V/60 Hz, Neutral



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.183	5.89	19.83	25.72	64.34	-38.62	Average
2	0.183	20.70	19.83	40.53	64.34	-23.81	QP
3	0.257	8.09	19.82	27.91	61.53	-33.62	Average
4	0.257	20.00	19.82	39.82	61.53	-21.71	QP
5	0.398	3.60	19.74	23.34	57.89	-34.55	Average
6	0.398	18.30	19.74	38.04	57.89	-19.85	QP
7	0.477	8.69	19.76	28.45	56.40	-27.95	Average
8	0.477	19.40	19.76	39.16	56.40	-17.24	QP
9	0.582	11.61	19.75	31.36	56.00	-24.64	Average
10	0.582	22.40	19.75	42.15	56.00	-13.85	QP
11	15.080	-1.59	19.64	18.05	60.00	-41.95	Average
12	15.080	13.20	19.64	32.84	60.00	-27.16	QP

FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS**Applicable Standard**

FCC §15.205; §15.209; §15.247(d)

EUT Setup**Below 1 GHz:****Above 1GHz:**

The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.247 limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver Setup was set with the following configurations:

Frequency Range	RBW	Video B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	QP
Above 1GHz	1MHz	3 MHz	PK
	1MHz	3 MHz	Average

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude (dB μ V /m) = Meter Reading (dB μ V) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

The “**Margin**” column of the following data tables indicates the degree of Compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V /m)

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data

Environmental Conditions

Temperature:	22.8~23.2 °C
Relative Humidity:	49~50 %
ATM Pressure:	101.1~101.3 kPa

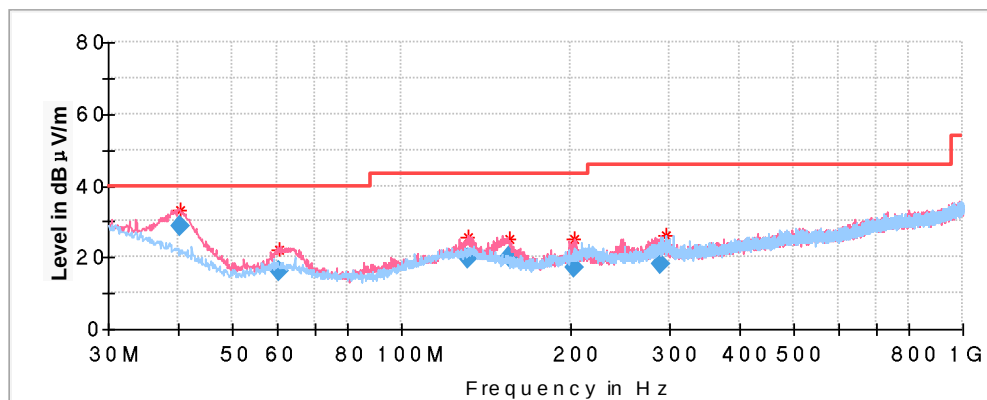
The testing was performed by Tyrone Wang from 2021-05-06 to 2021-05-07.

EUT operation mode: Transmitting

Note: Both Adapter1 and Adapter2 have been tested, the worst Adapter2 data were recorded in this report.

Spurious Emission Test: (Power by Adapter2 worst case)**30MHz-1GHz:**

Pre-Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK modes of operation in the X,Y and Z axes of orientation, the worst case high channel of GFSK Mode in Y-axis of orientation was recorded



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	Quasi-peak (dBμV/m)	Height (cm)	Polar (H/V)				
40.268650	28.74	100.0	V	206.0	-10.6	40.00	11.26
60.683550	16.15	100.0	V	326.0	-14.6	40.00	23.85
131.662450	19.74	100.0	V	230.0	-11.3	43.50	23.76
155.454100	20.26	100.0	V	158.0	-13.6	43.50	23.24
202.595050	17.34	100.0	V	170.0	-12.0	43.50	26.16
289.706400	17.93	200.0	V	14.0	-11.1	46.00	28.07

1GHz-18GHz: (Power by Adapter2 worst case)

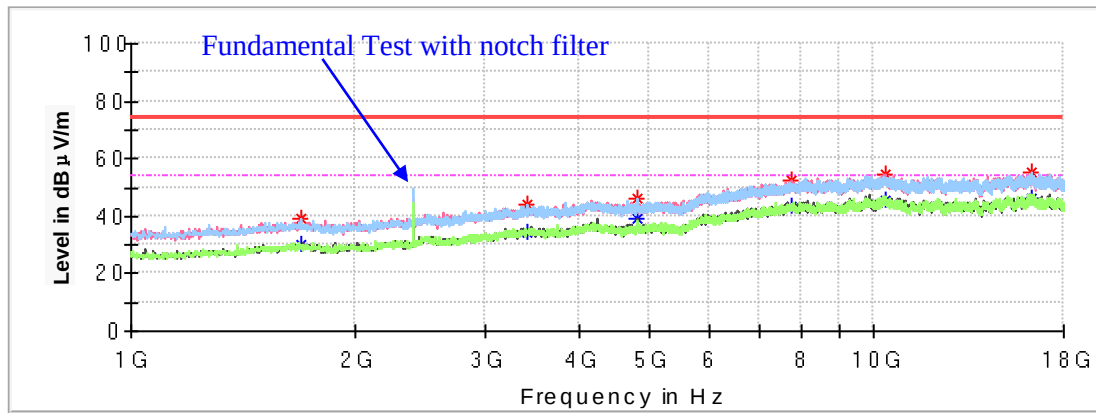
Pre-Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK modes of operation in the X,Y and Z axes of orientation, the worst case **GFSK Mode in Y-axis of orientation** was recorded

Note:

1. This test was performed with the 2.4-2.5 GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dB μ V/m) = Corrected Factor (dB/m) + Reading (dB μ V)
 Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Low Channel: 2402MHz

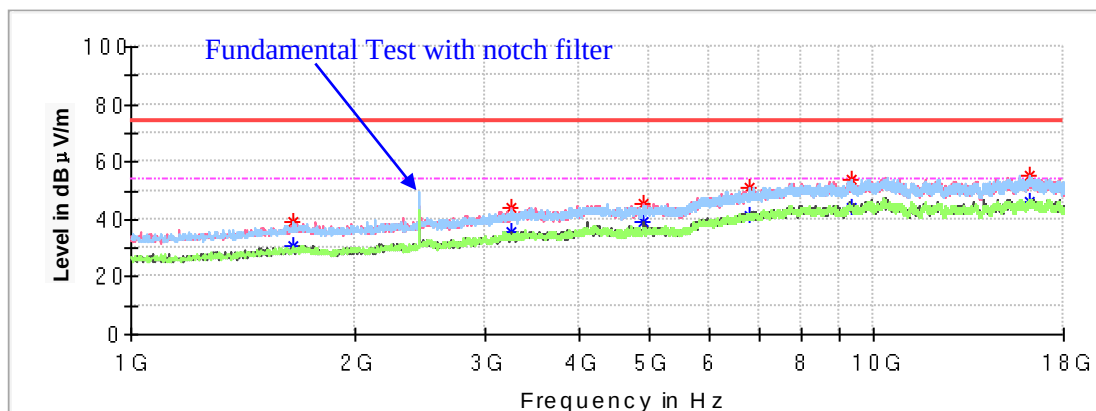
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1693.600000	---	29.93	200.0	V	322.0	-8.7	54.00	24.07
1693.600000	38.83	---	200.0	V	322.0	-8.7	74.00	35.17
3415.700000	---	34.48	150.0	H	313.0	-2.0	54.00	19.52
3415.700000	43.84	---	150.0	H	313.0	-2.0	74.00	30.16
4804.000000	---	38.93	150.0	V	34.0	1.0	54.00	15.07
4804.000000	46.07	---	150.0	V	34.0	1.0	74.00	27.93
7766.000000	---	43.17	200.0	V	335.0	10.1	54.00	10.83
7766.000000	52.47	---	200.0	V	335.0	10.1	74.00	21.53
10368.700000	---	45.78	150.0	V	34.0	12.7	54.00	8.22
10368.700000	54.60	---	150.0	V	34.0	12.7	74.00	19.40
16289.800000	---	46.32	150.0	H	224.0	12.2	54.00	7.68
16289.800000	55.05	---	150.0	H	224.0	12.2	74.00	18.95

Middle Channel: 2441MHz

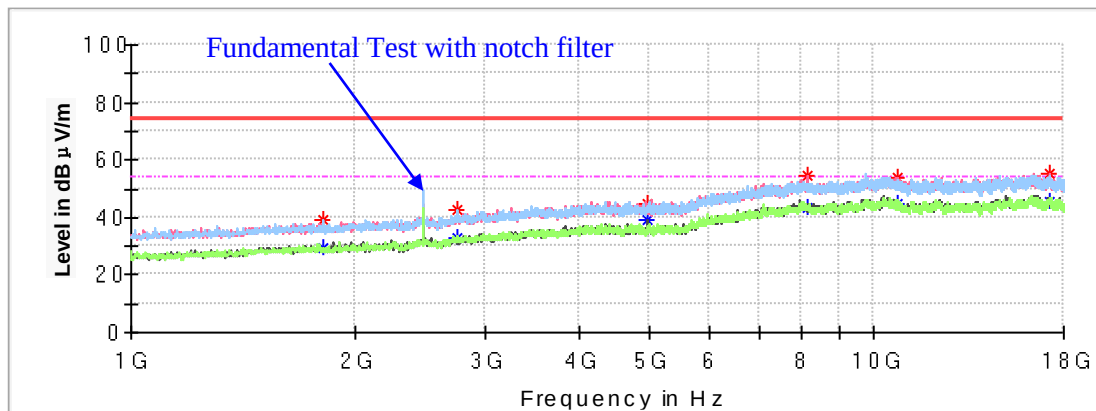
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1647.700000	---	30.87	150.0	H	207.0	-8.9	54.00	23.13
1647.700000	39.05	---	150.0	H	207.0	-8.9	74.00	34.95
3257.600000	---	35.38	200.0	V	185.0	-2.5	54.00	18.62
3257.600000	43.76	---	200.0	V	185.0	-2.5	74.00	30.24
4882.000000	45.22	---	150.0	V	283.0	1.1	74.00	28.78
4882.000000	---	38.88	150.0	V	283.0	1.1	54.00	15.12
6793.600000	---	41.54	150.0	H	219.0	8.0	54.00	12.46
6793.600000	50.99	---	150.0	H	219.0	8.0	74.00	23.01
9336.800000	---	44.07	200.0	V	287.0	11.5	54.00	9.93
9336.800000	54.00	---	200.0	V	287.0	11.5	74.00	20.00
16228.600000	---	46.01	150.0	V	0.0	12.2	54.00	7.99
16228.600000	55.47	---	150.0	V	0.0	12.2	74.00	18.53

High Channel: 2480MHz

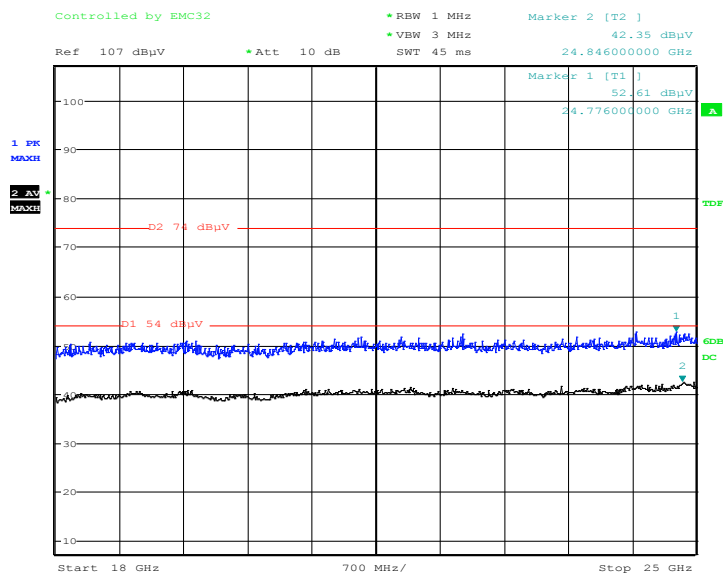
Full Spectrum



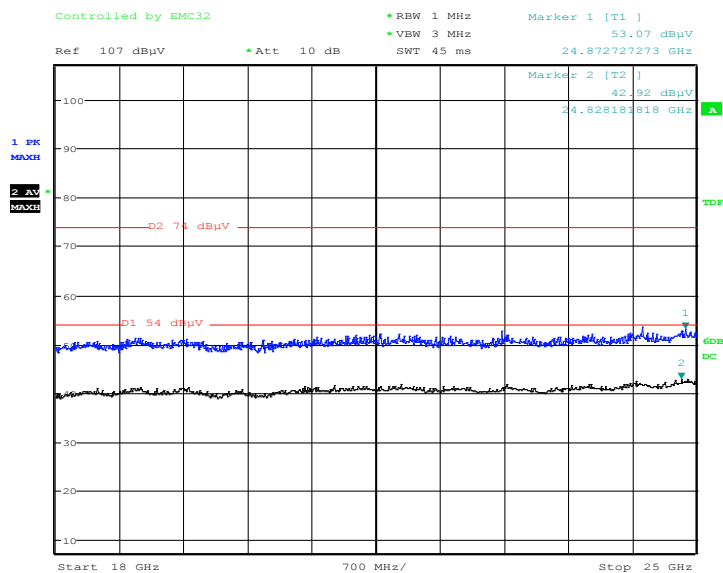
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1812.600000	---	29.44	200.0	H	175.0	-8.3	54.00	24.56
1812.600000	38.95	---	200.0	H	175.0	-8.3	74.00	35.05
2742.500000	---	32.81	150.0	H	155.0	-4.5	54.00	21.19
2742.500000	42.98	---	150.0	H	155.0	-4.5	74.00	31.02
4960.000000	45.06	---	150.0	V	26.0	1.1	74.00	28.94
4960.000000	---	38.88	150.0	V	26.0	1.1	54.00	15.12
8119.600000	---	43.31	200.0	V	35.0	10.8	54.00	10.69
8119.600000	54.20	---	200.0	V	35.0	10.8	74.00	19.80
10744.400000	---	44.67	200.0	V	0.0	12.3	54.00	9.33
10744.400000	53.77	---	200.0	V	0.0	12.3	74.00	20.23
17221.400000	---	45.62	200.0	V	126.0	11.5	54.00	8.38
17221.400000	55.21	---	200.0	V	126.0	11.5	74.00	18.79

18GHz-25GHz:

Pre-Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK modes of operation in the X,Y and Z axes of orientation, the worst case high channel of GFSK Mode in Y-axis of orientation was recorded

Horizontal

Date: 7.MAY.2021 13:49:18

Vertical

Date: 7.MAY.2021 13:42:27

Restricted Bands Emissions:

Pre-Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK modes of operation in the X,Y and Z axes of orientation, the worst case GFSK Mode in Y-axis of orientation in horizontal polarization was recorded

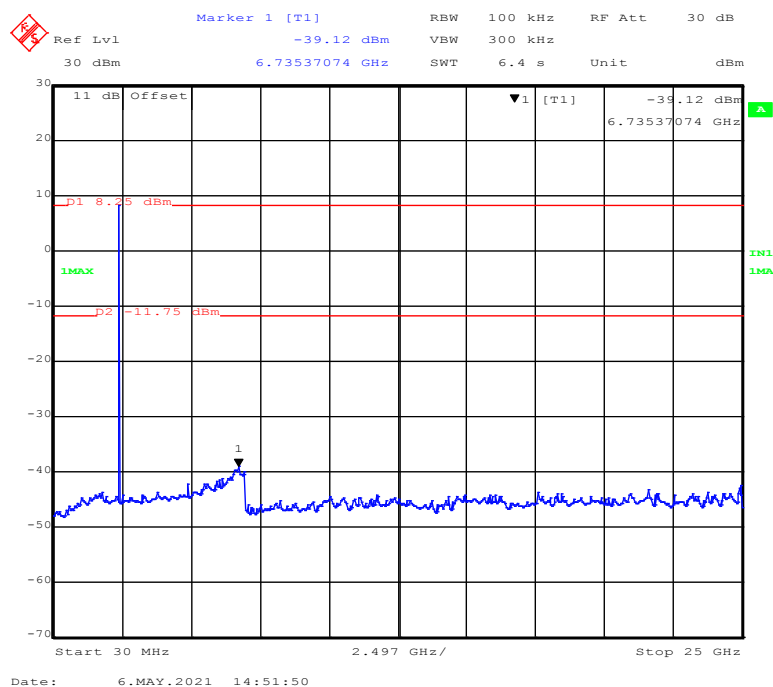
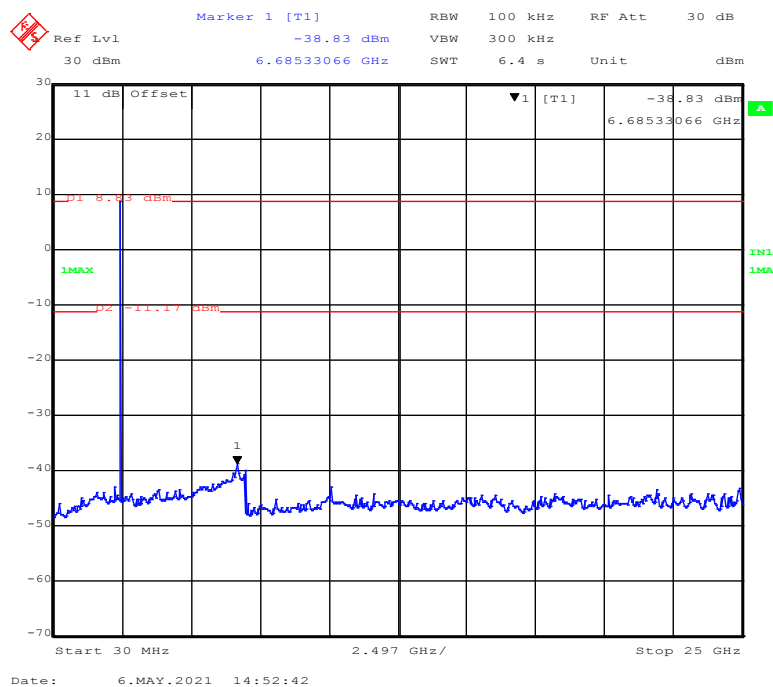
Note:

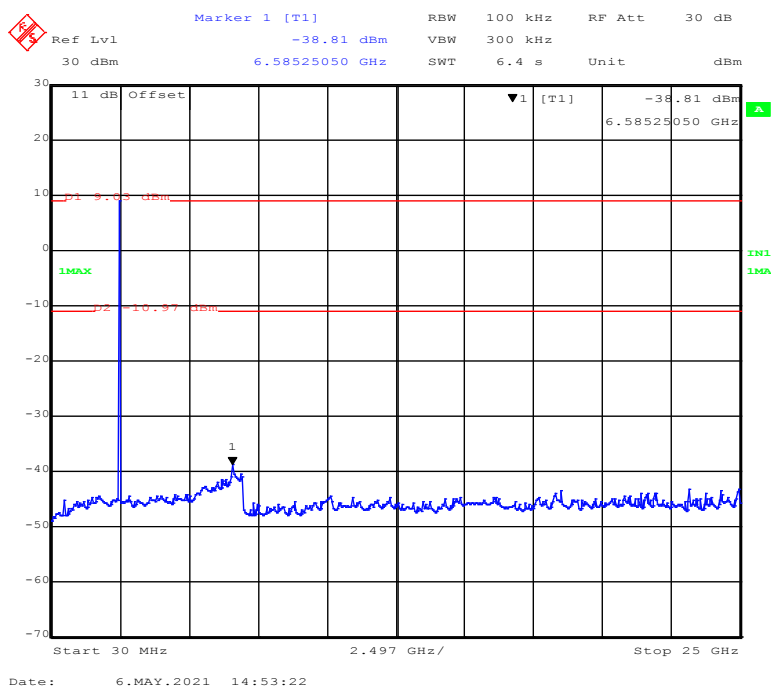
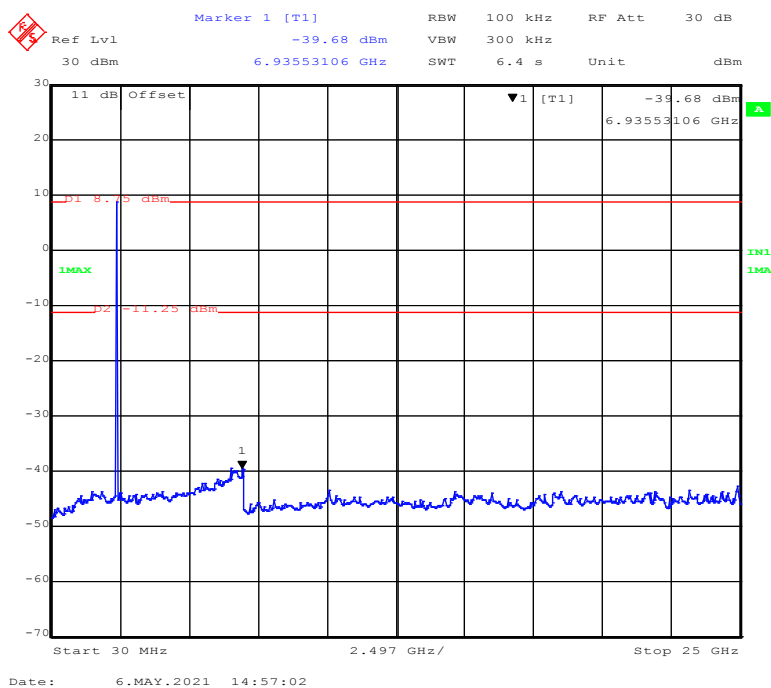
1. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

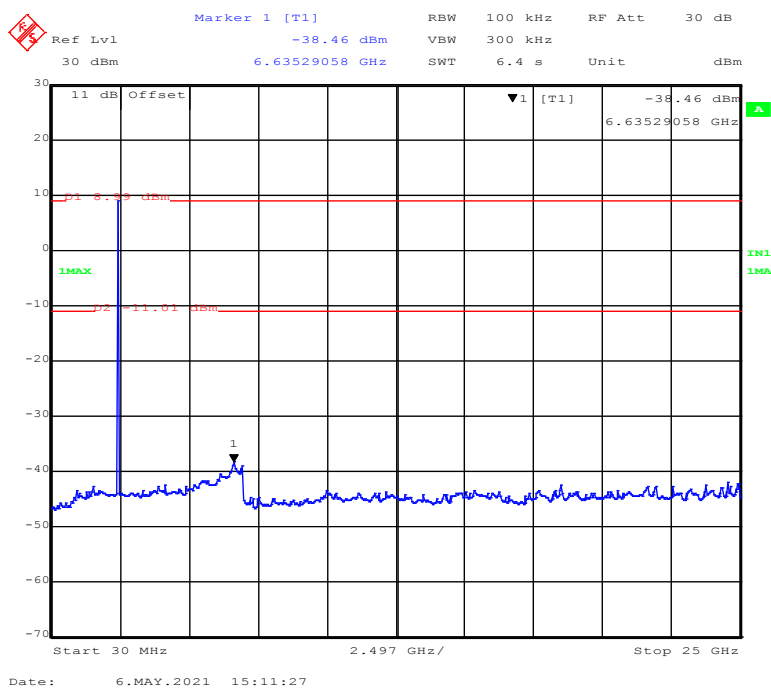
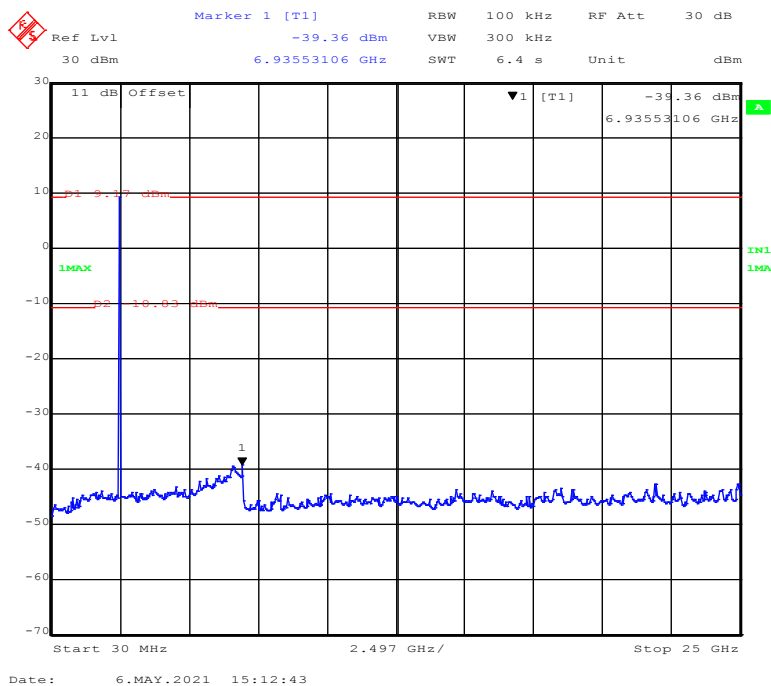
Corrected Amplitude (dB μ V/m) = Corrected Factor (dB/m) + Reading (dB μ V)

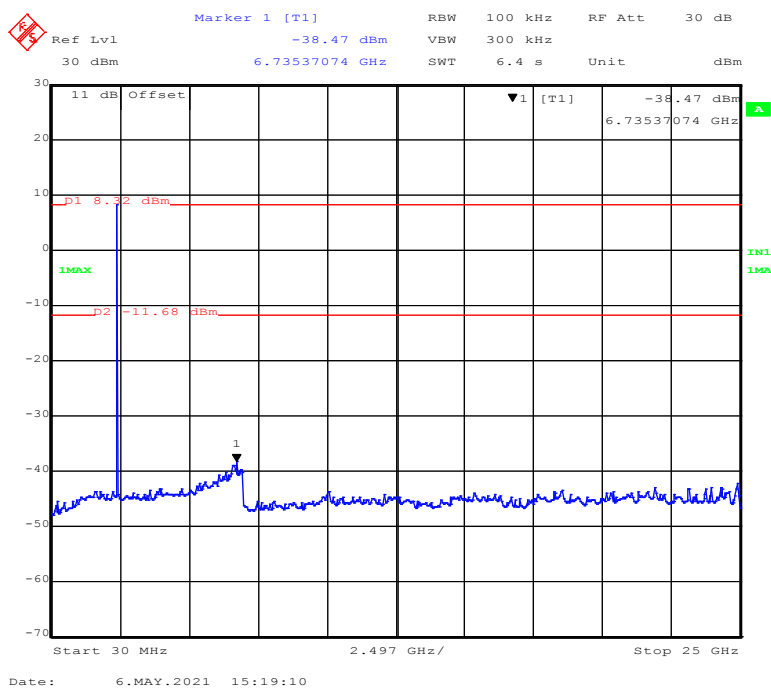
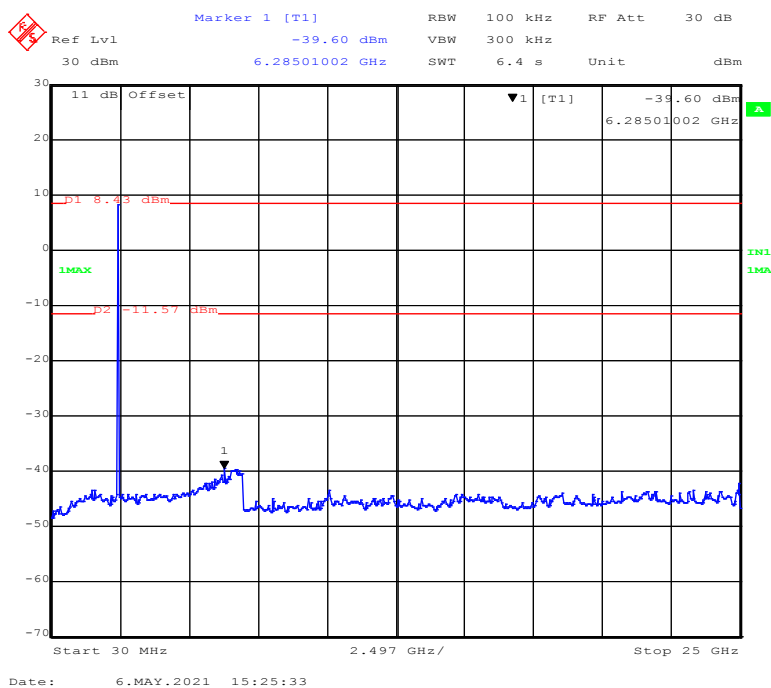
Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
Low Channel: 2402MHz								
2390.00	---	45.48	150.0	H	167.0	3.8	54.00	8.52
2390.00	50.99	---	150.0	H	167.0	3.8	74.00	23.01
High Channel: 2480MHz								
2483.50	52.19	---	200.0	H	185.0	4.1	74.00	21.81
2483.50	---	46.09	200.0	H	185.0	4.1	54.00	7.91

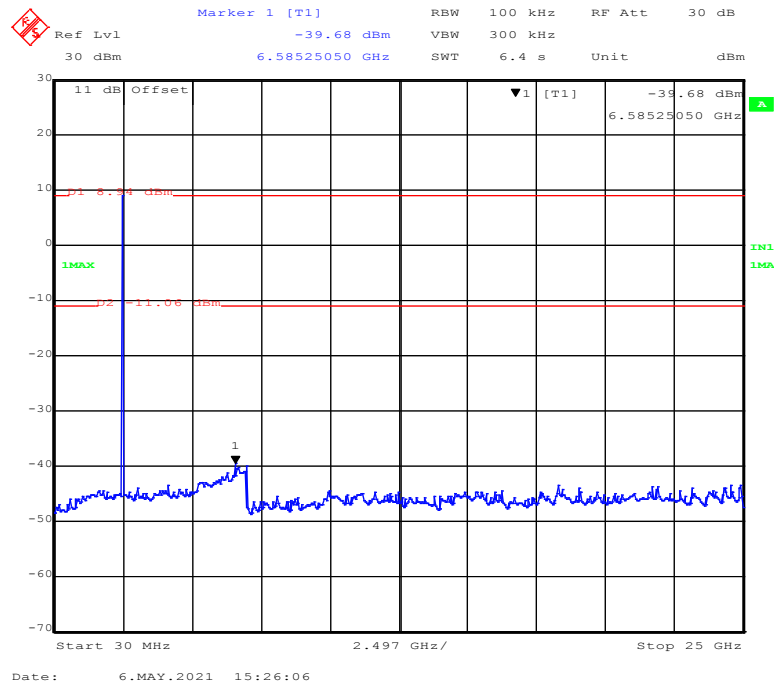
Conducted Spurious Emissions at Antenna Port**BDR (GFSK): Low Channel****BDR (GFSK): Middle Channel**

BDR (GFSK): High Channel**EDR ($\pi/4$ -DQPSK): Low Channel**

EDR ($\pi/4$ -DQPSK): Middle Channel**EDR ($\pi/4$ -DQPSK): High Channel**

EDR (8DPSK): Low Channel**EDR (8DPSK): Middle Channel**

EDR (8DPSK): High Channel



FCC §15.247(a) (1)-CHANNEL SEPARATION TEST

Applicable Standard

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.

Test Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a. Span: Wide enough to capture the peaks of two adjacent channels.
- b. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c. Video (or average) bandwidth (VBW) $\geq$ RBW.
- d. Sweep: Auto.
- e. Detector function: Peak.
- f. Trace: Max hold.
- g. Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

Test Data

Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

The testing was performed by Tyrone Wang on 2021-05-10.

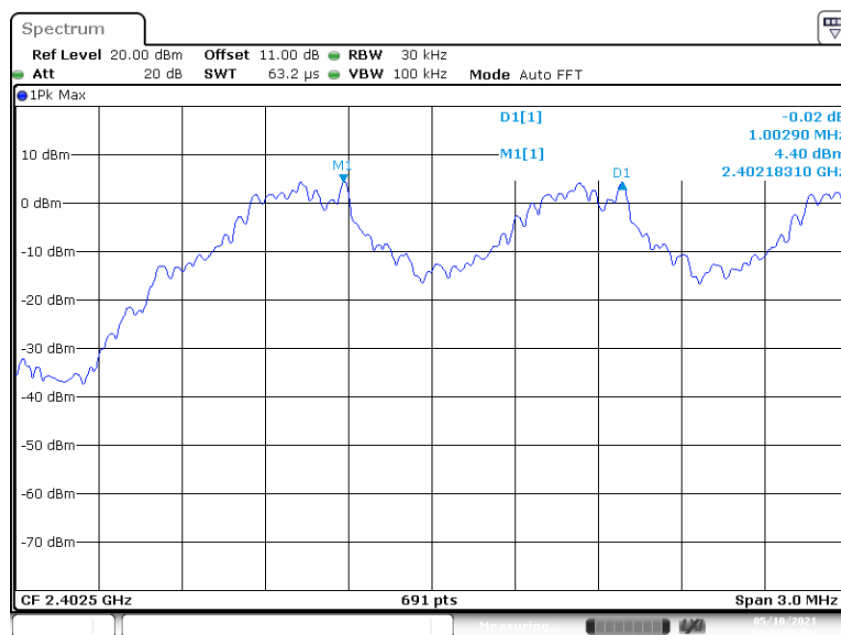
EUT operation mode: Transmitting

Test Result: Compliant.

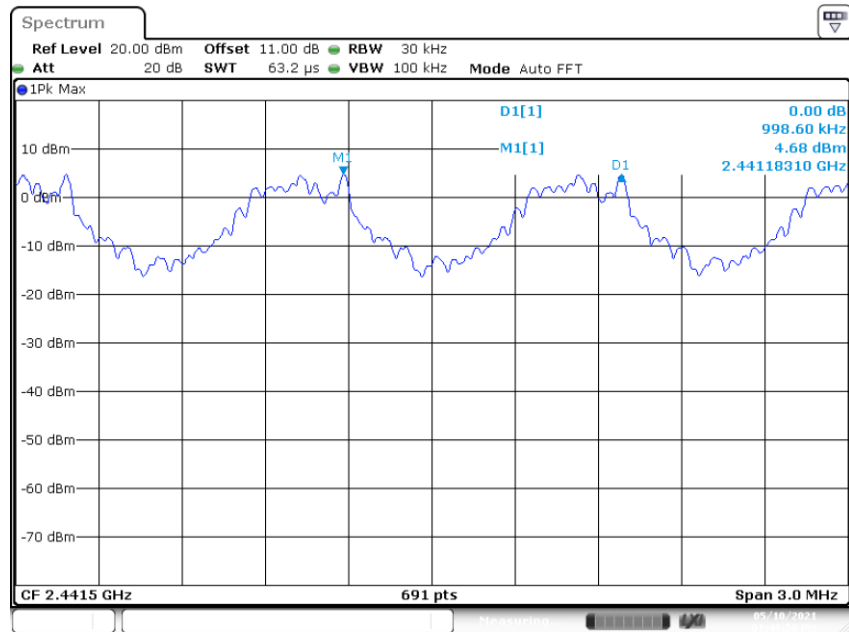
Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
BDR (GFSK)	Low	2402	1.003	0.872	Pass
	Adjacent	2403			
	Middle	2441	0.999	0.872	Pass
	Adjacent	2442			
	High	2480	0.999	0.872	Pass
	Adjacent	2479			
EDR ($\pi/4$ -DQPSK)	Low	2402	1.003	0.850	Pass
	Adjacent	2403			
	Middle	2441	0.999	0.846	Pass
	Adjacent	2442			
	High	2480	1.003	0.846	Pass
	Adjacent	2479			
EDR (8DPSK)	Low	2402	1.003	0.850	Pass
	Adjacent	2403			
	Middle	2441	0.999	0.850	Pass
	Adjacent	2442			
	High	2480	1.003	0.850	Pass
	Adjacent	2479			

Note: For BDR mode, Limit = 20 dB bandwidth, For EDR mode, Limit = 20 dB bandwidth*2/3

BDR (GFSK): Low Channel

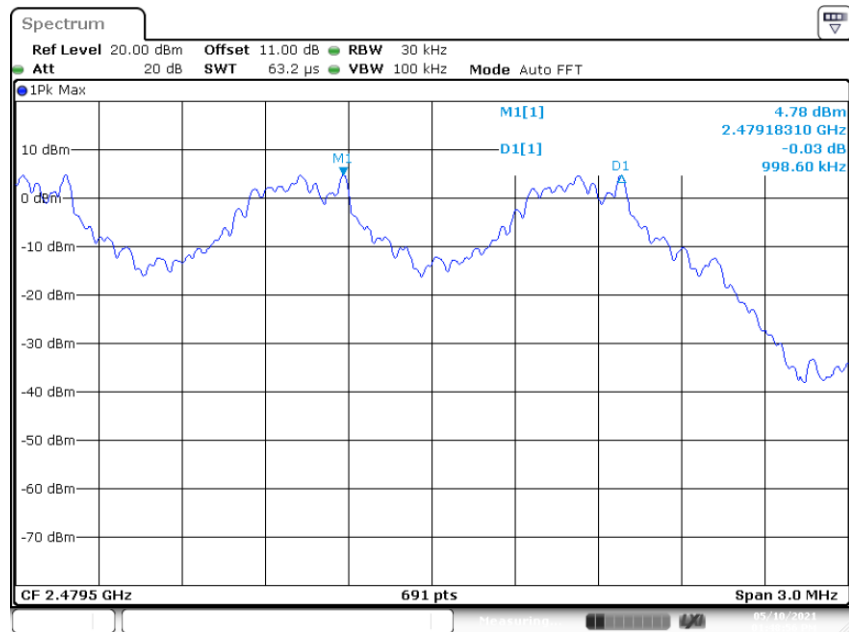


BDR (GFSK): Middle Channel

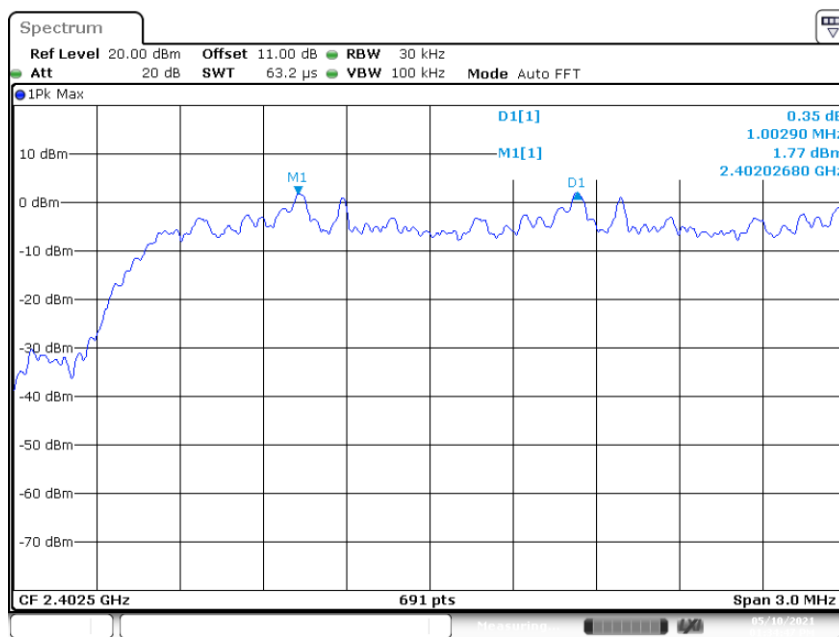


Date: 10.MAY.2021 13:46:58

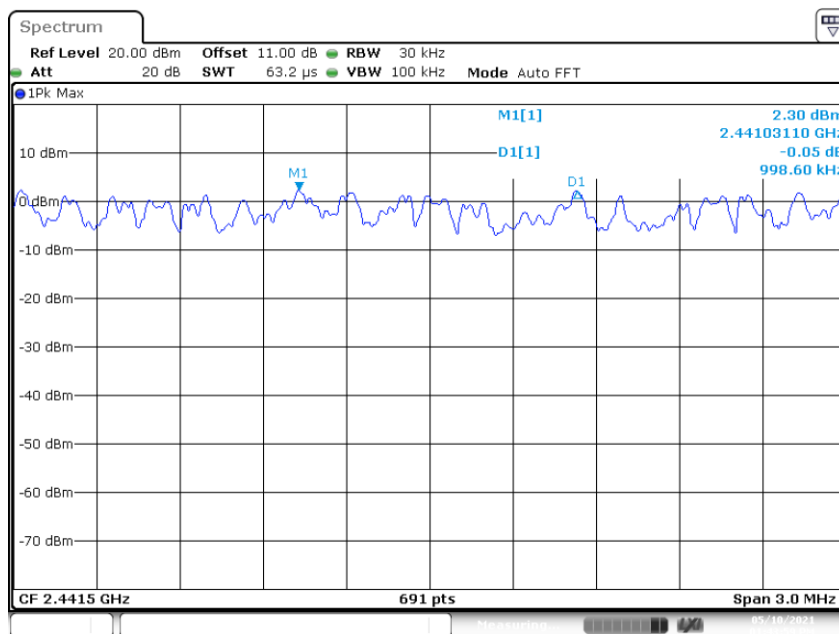
BDR (GFSK): High Channel



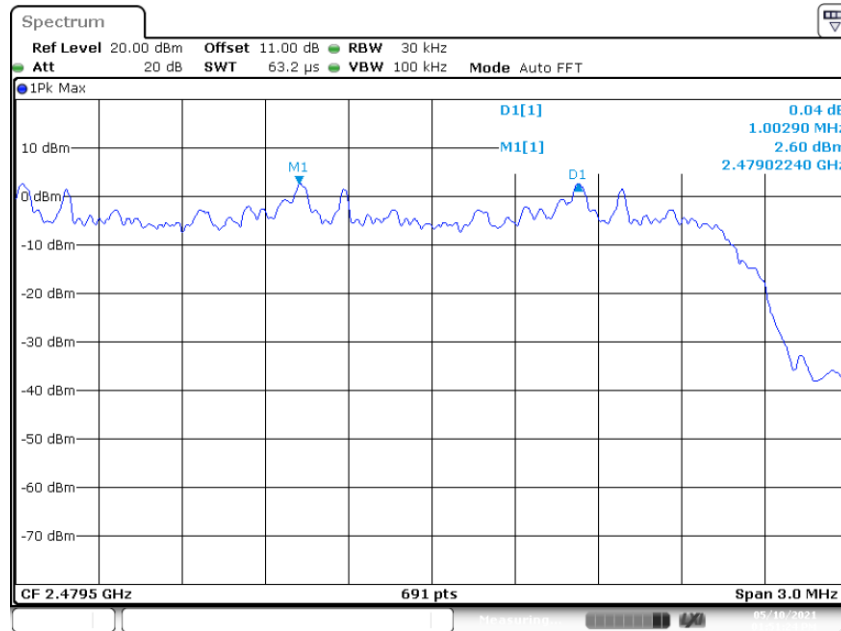
Date: 10.MAY.2021 13:48:56

EDR ($\pi/4$ -DQPSK): Low Channel

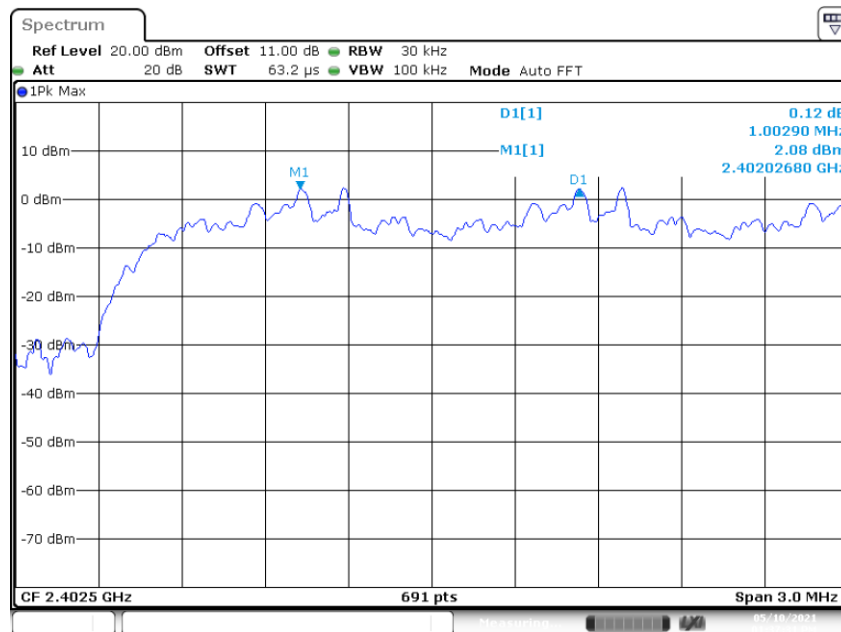
Date: 10 MAY.2021 13:34:48

EDR ($\pi/4$ -DQPSK): Middle Channel

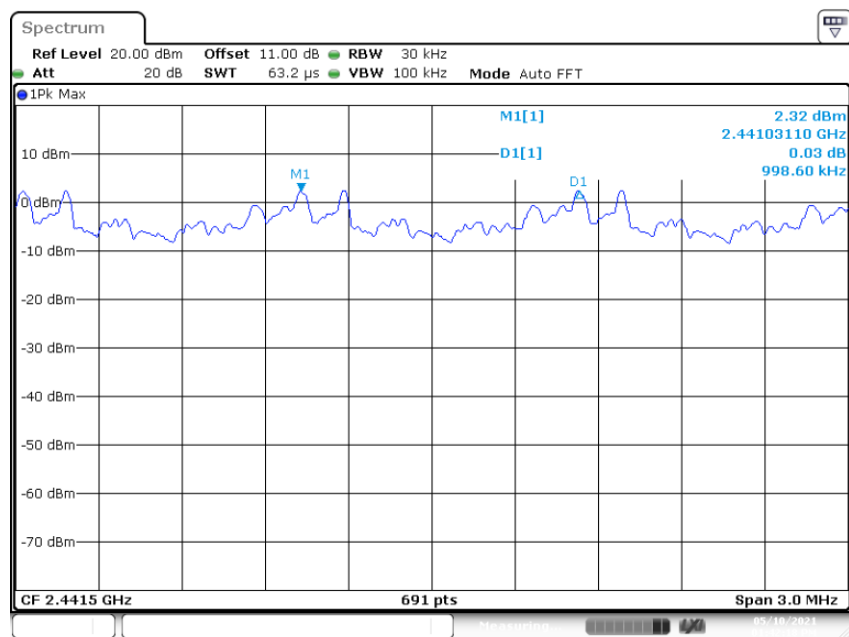
Date: 10 MAY.2021 13:43:59

EDR ($\pi/4$ -DQPSK): High Channel

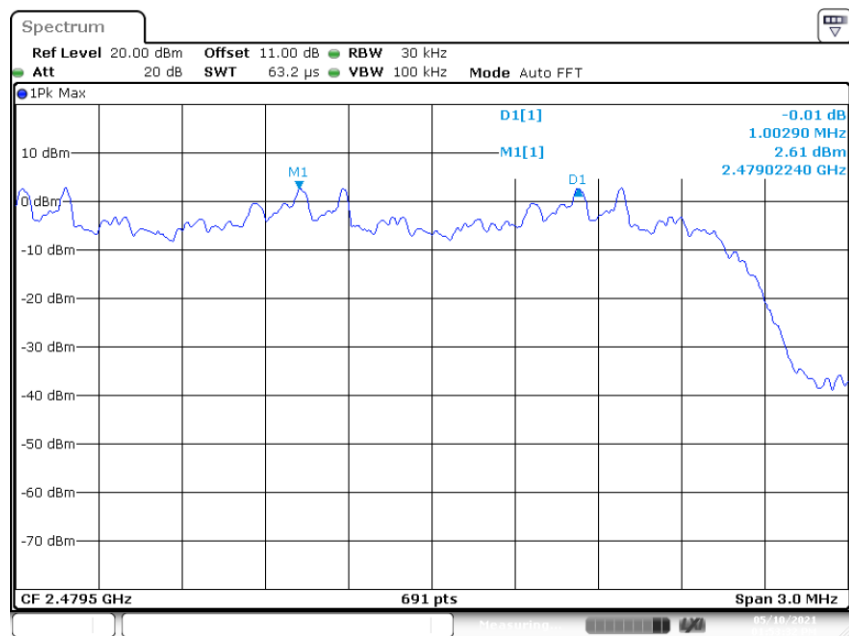
Date: 10.MAY.2021 13:51:25

EDR (8DPSK): Low Channel

Date: 10.MAY.2021 13:37:31

EDR (8DPSK): Middle Channel

Date: 10.MAY.2021 13:42:17

EDR (8DPSK): High Channel

Date: 10.MAY.2021 13:53:32

FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH

Applicable Standard

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.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Test Data

Environmental Conditions

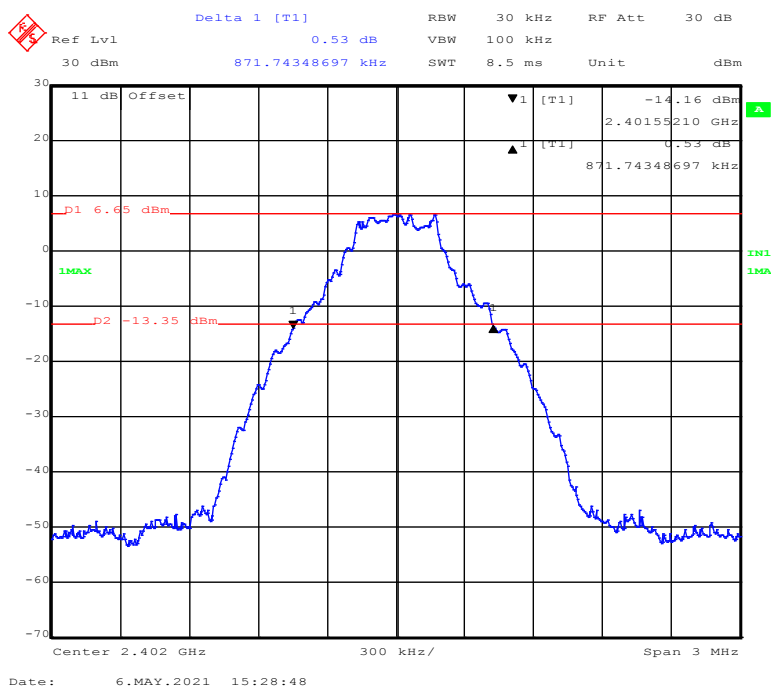
Temperature:	22.7 °C
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

The testing was performed by Tyrone Wang on 2021-05-06.

EUT operation mode: Transmitting

Test Result: Compliant.

Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
BDR (GFSK)	Low	2402	0.872
	Middle	2441	0.872
	High	2480	0.872
EDR ($\pi/4$-DQPSK)	Low	2402	1.275
	Middle	2441	1.269
	High	2480	1.269
EDR (8DPSK)	Low	2402	1.275
	Middle	2441	1.275
	High	2480	1.275

BDR (GFSK): Low Channel

Marker 1 [T1]
 -13.63 dBm
 2.44054609 GHz

Ref Lvl
 30 dBm

RBW
 30 kHz

RF Att
 30 dB

SWT
 8.5 ms

Unit
 dBm

11 dB Offset

▼1 [T1]
 -13.63 dBm
 2.44054609 GHz

△1 [T1]
 1.37 dB
 871.74348698 kHz

P1 7.31 dBm

1MAX

P2 -12.69 dBm

IN1
 1MA

Center 2.441 GHz

300 kHz/

Span 3 MHz

Date: 6.MAY.2021 14:17:56

Marker 1 [T1]
-13.55 dBm

Ref Lvl 30 dBm
30 dBm

2.47954609 GHz

RBW 30 kHz
VBW 100 kHz
SWT 8.5 ms

Unit dBm

11 dB Offset

▼1 [T1] -13.55 dBm
2.47954609 GHz

▲1 [T1] -12.54 dBm
871.74348698 kHz

P1 7.46 dBm

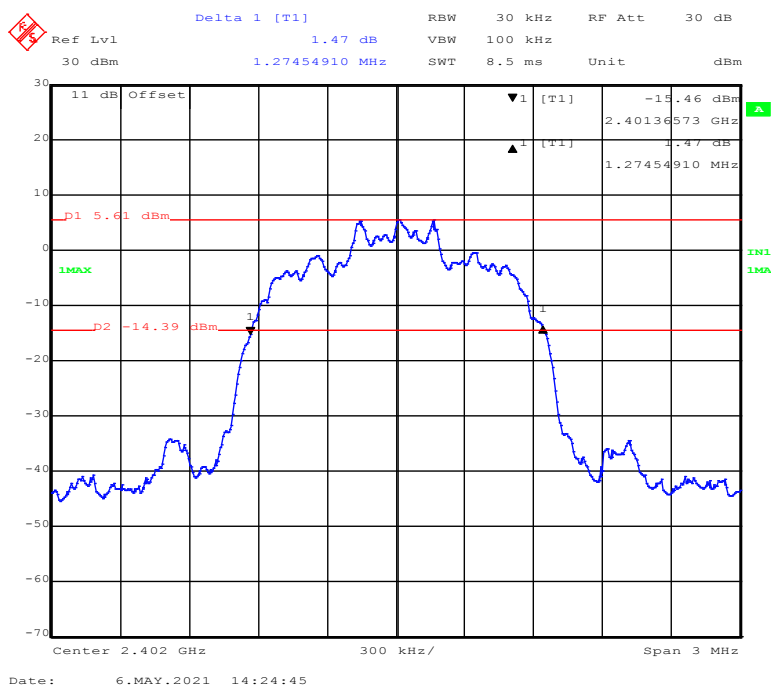
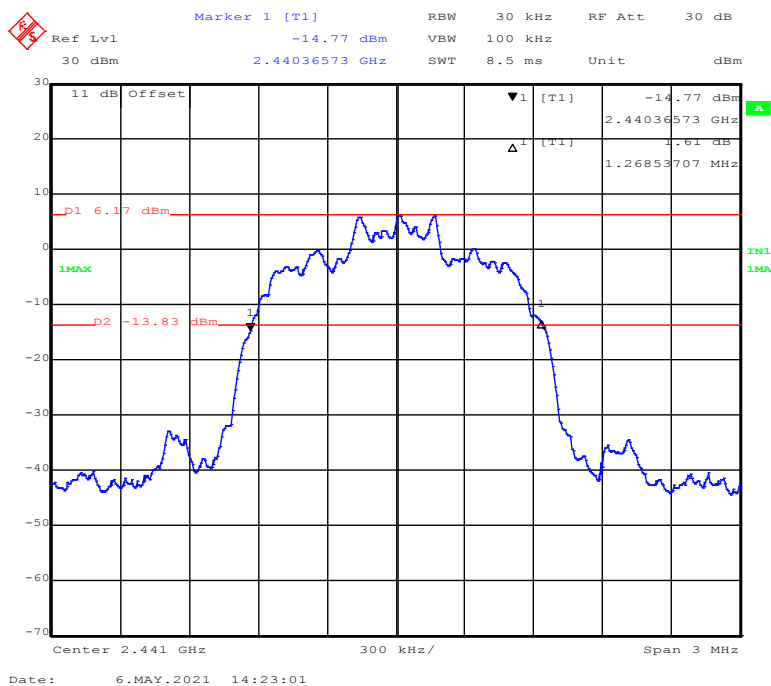
P2 -12.54 dBm

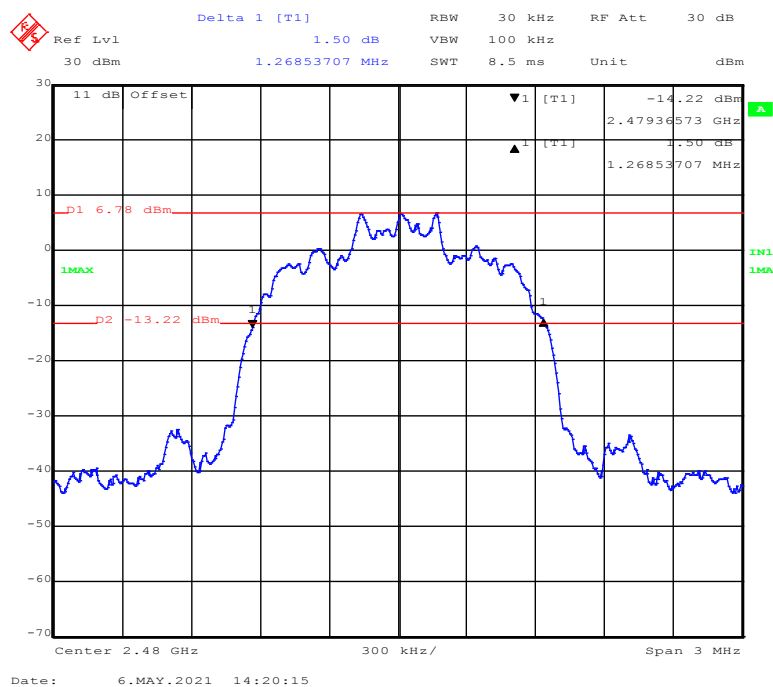
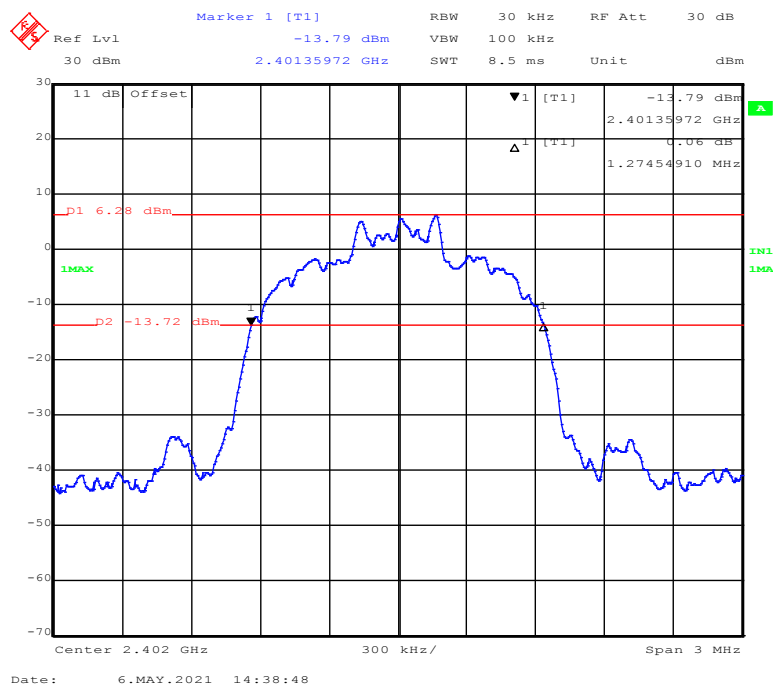
1MAX

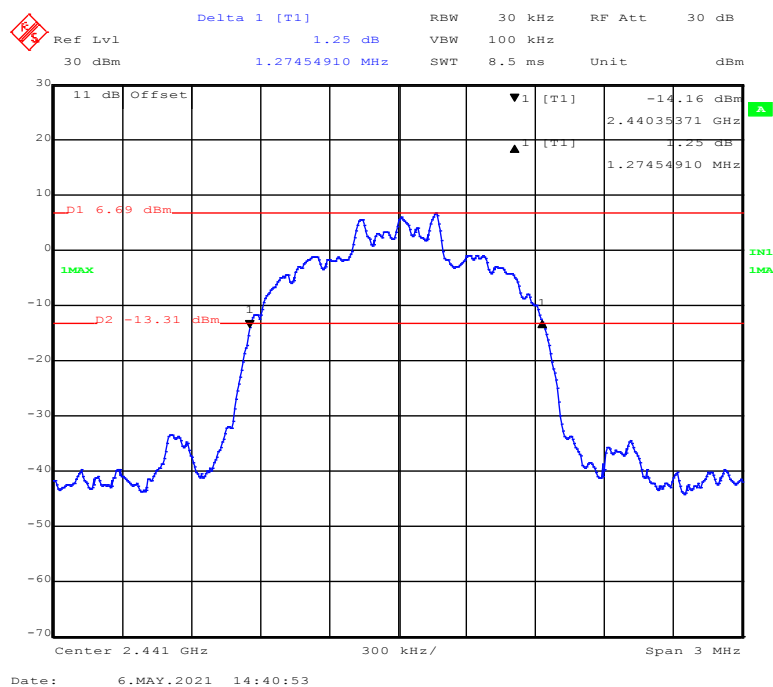
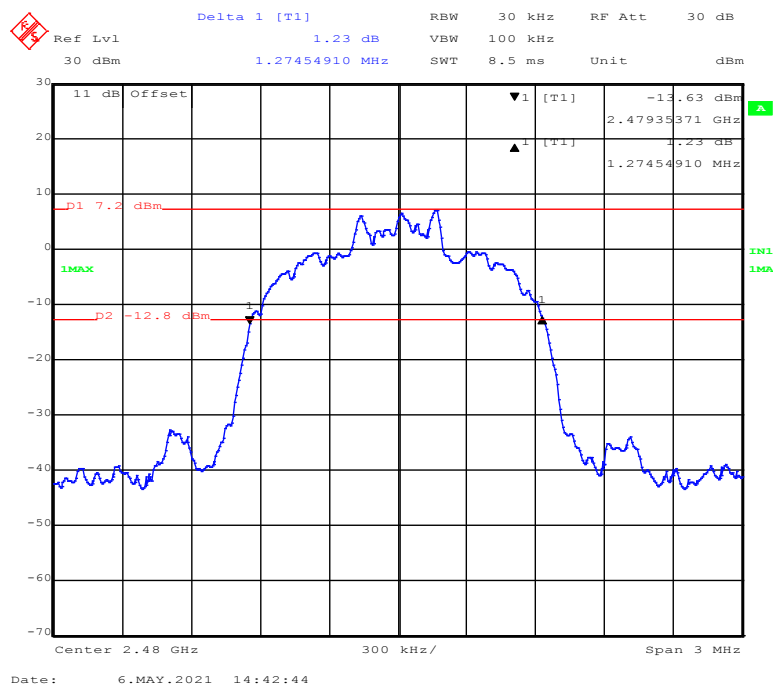
IN1

Center 2.48 GHz
300 kHz/
Span 3 MHz

Date: 6.MAY.2021 14:18:58

EDR ($\pi/4$ -DQPSK): Low Channel**EDR($\pi/4$ -DQPSK): Middle Channel**

EDR ($\pi/4$ -DQPSK): High Channel**EDR (8DPSK): Low Channel**

EDR (8DPSK): Middle Channel**EDR (8DPSK): High Channel**

FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

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 Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c. VBW $\geq$ RBW.
- d. Sweep: Auto.
- e. Detector function: Peak.
- f. Trace: Max hold.
- g. Allow the trace to stabilize.

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies.

Test Data

Environmental Conditions

Temperature:	22.6 °C
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

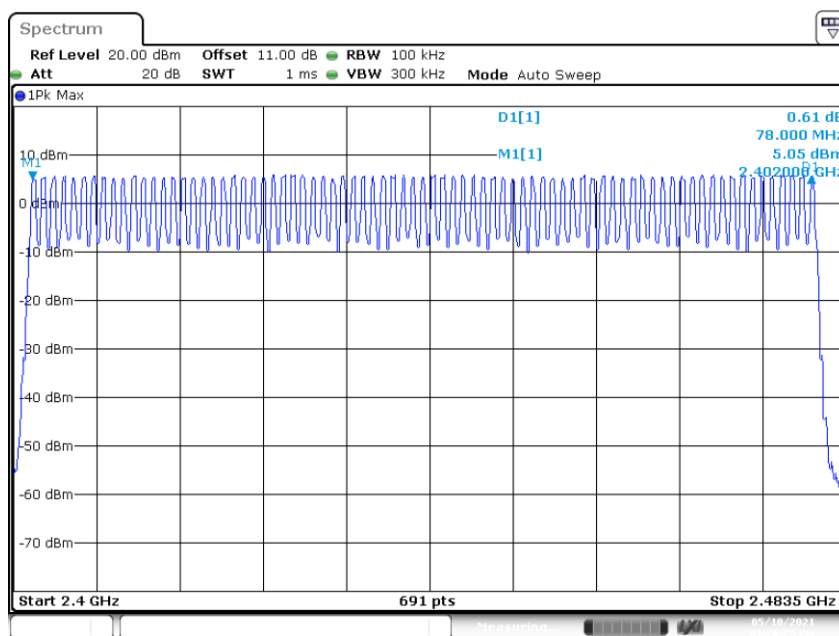
The testing was performed by Tyrone Wang on 2021-05-10.

EUT operation mode: Hopping

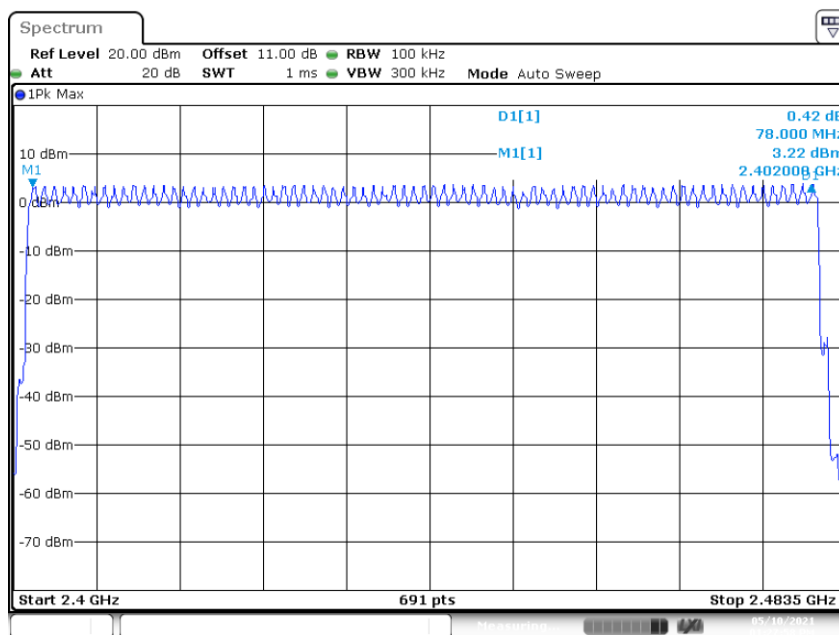
Test Result: Compliant.

Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
BDR (GFSK)	2400-2483.5	79	≥15
EDR ($\pi/4$ -DQPSK)	2400-2483.5	79	≥15
EDR (8DPSK)	2400-2483.5	79	≥15

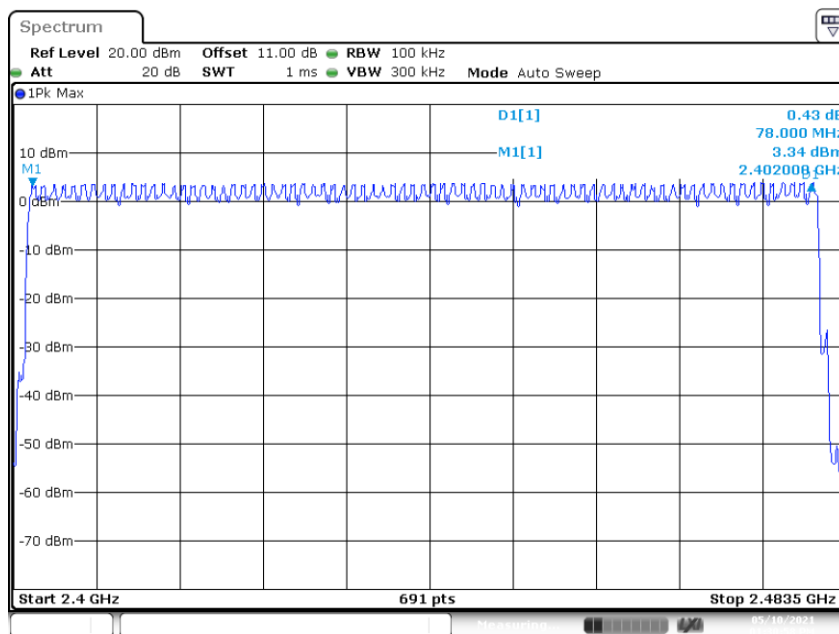
BDR (GFSK): Number of Hopping Channels



Date: 10.MAY.2021 13:26:25

EDR ($\pi/4$ -DQPSK): Number of Hopping Channels

Date: 10.MAY.2021 13:27:58

EDR (8DPSK): Number of Hopping Channels

Date: 10.MAY.2021 13:30:59

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)**Applicable Standard**

Frequency hopping systems in the 2400-2483.5 MHz 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 Procedure

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 $\leq$ channel spacing and where possible RBW should be set $\geq 1 / T$, 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.

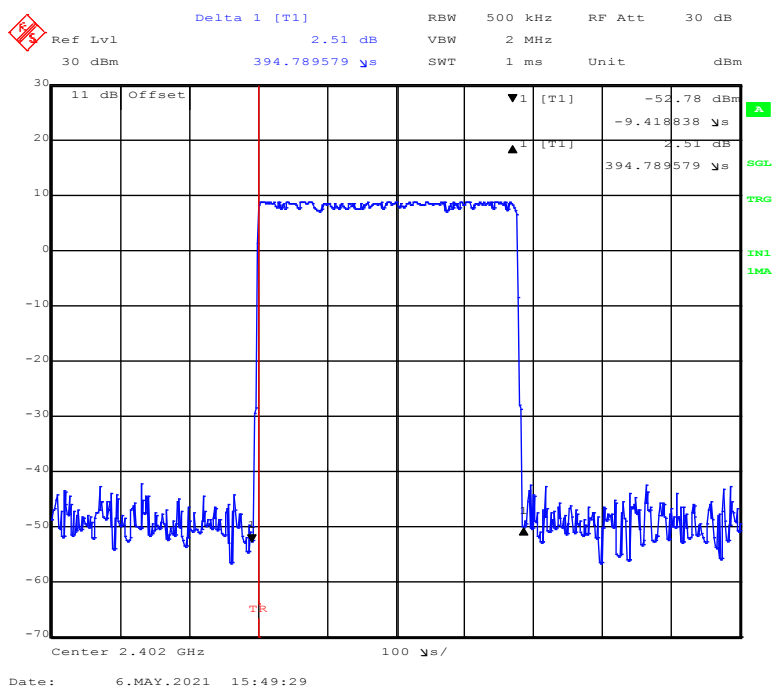
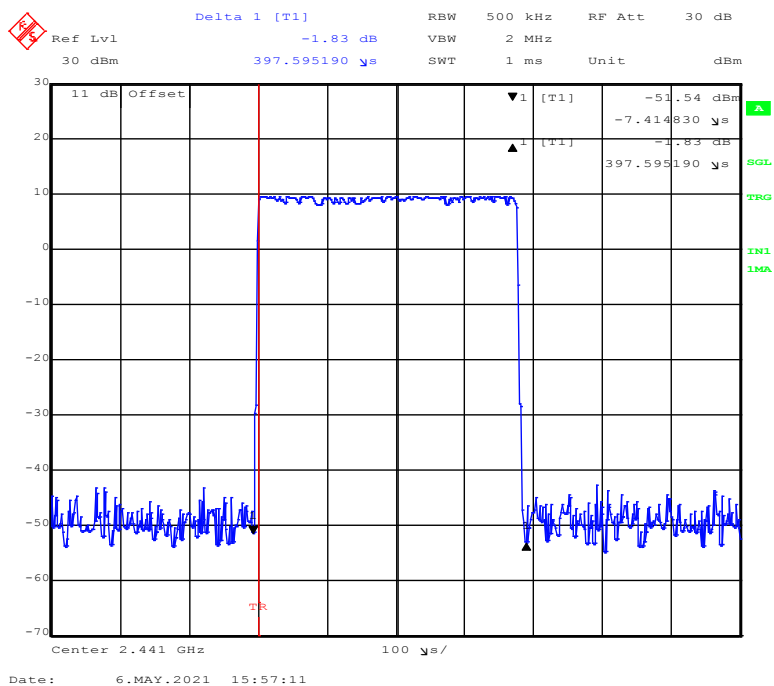
Test Data**Environmental Conditions**

Temperature:	22.8 °C
Relative Humidity:	50 %
ATM Pressure:	101.8 kPa

The testing was performed by Tyrone Wang on 2021-05-06.

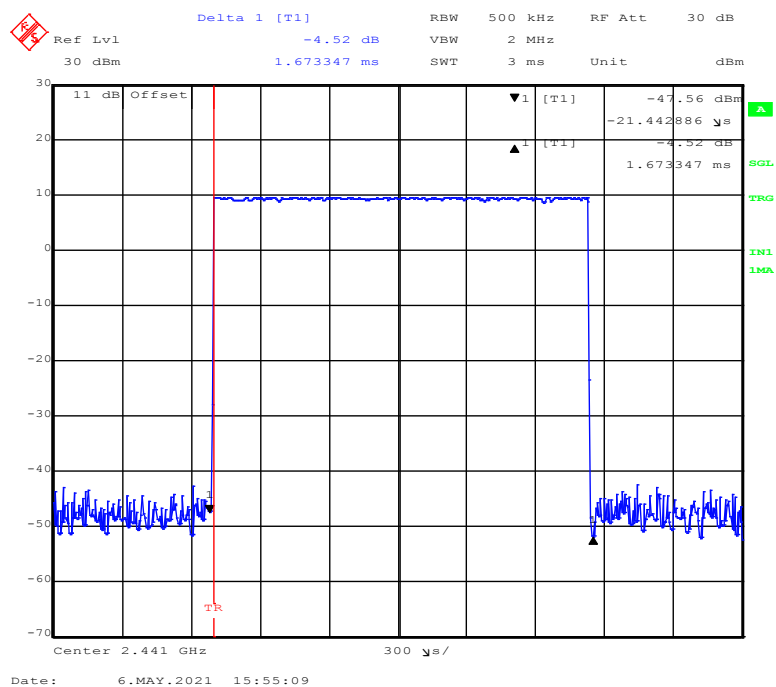
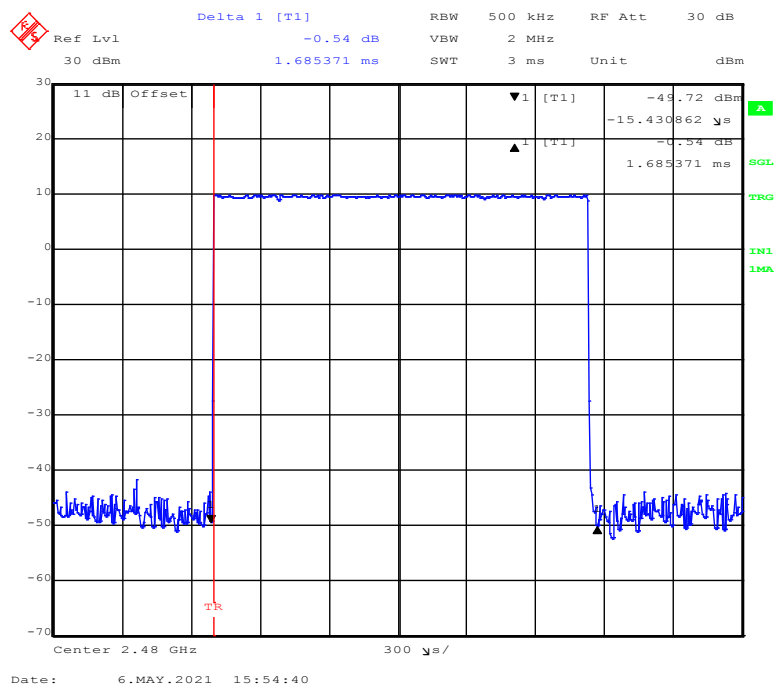
EUT operation mode: Hopping

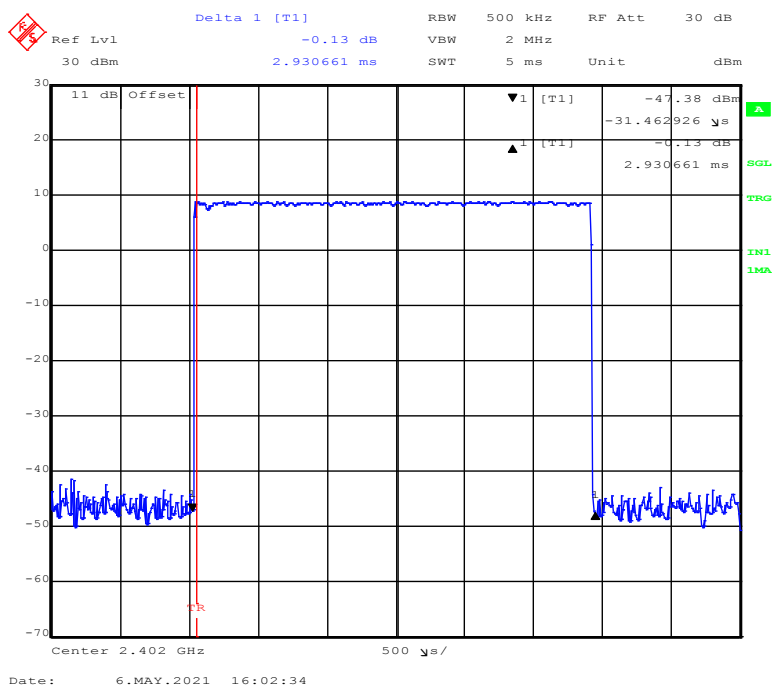
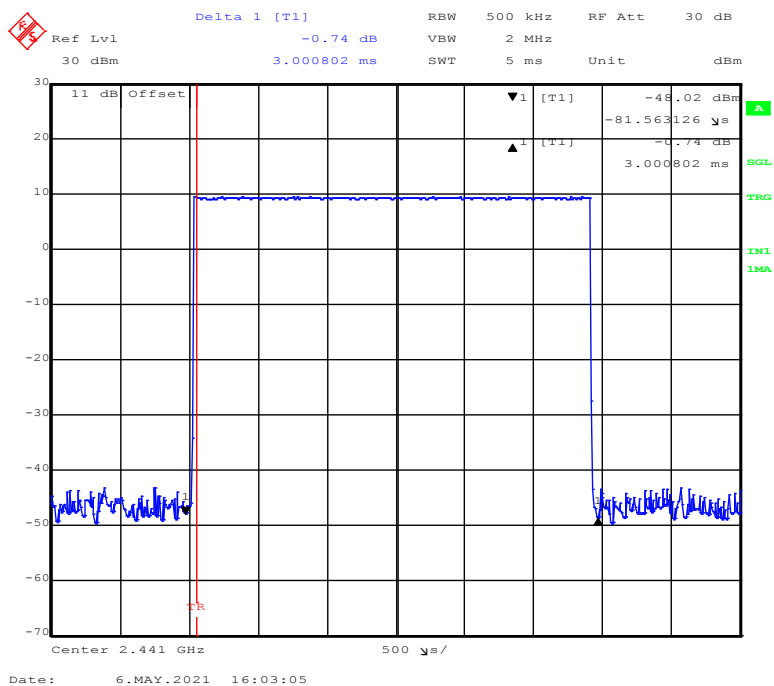
Mode		Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
BDR (GFSK)	DH1	Low	0.395	0.126	0.4	Pass
		Middle	0.398	0.127	0.4	Pass
		High	0.393	0.126	0.4	Pass
		Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH3	Low	1.667	0.267	0.4	Pass
		Middle	1.673	0.268	0.4	Pass
		High	1.685	0.270	0.4	Pass
		Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH5	Low	2.931	0.313	0.4	Pass
		Middle	3.001	0.320	0.4	Pass
		High	2.941	0.314	0.4	Pass
		Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR ($\pi/4$ -DQPSK)	2DH1	Low	0.409	0.131	0.4	Pass
		Middle	0.401	0.128	0.4	Pass
		High	0.407	0.130	0.4	Pass
		Note: 2DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	2DH3	Low	1.684	0.269	0.4	Pass
		Middle	1.666	0.267	0.4	Pass
		High	1.684	0.269	0.4	Pass
		Note: 2DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	2DH5	Low	2.961	0.316	0.4	Pass
		Middle	2.931	0.313	0.4	Pass
		High	2.981	0.318	0.4	Pass
		Note: 2DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR (8DPSK)	3DH1	Low	0.403	0.129	0.4	Pass
		Middle	0.405	0.130	0.4	Pass
		High	0.411	0.132	0.4	Pass
		Note: 3 DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	3DH3	Low	1.678	0.268	0.4	Pass
		Middle	1.690	0.270	0.4	Pass
		High	1.672	0.268	0.4	Pass
		Note: 3DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	3DH5	Low	2.921	0.312	0.4	Pass
		Middle	2.931	0.313	0.4	Pass
		High	2.951	0.315	0.4	Pass
		Note: 3DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				

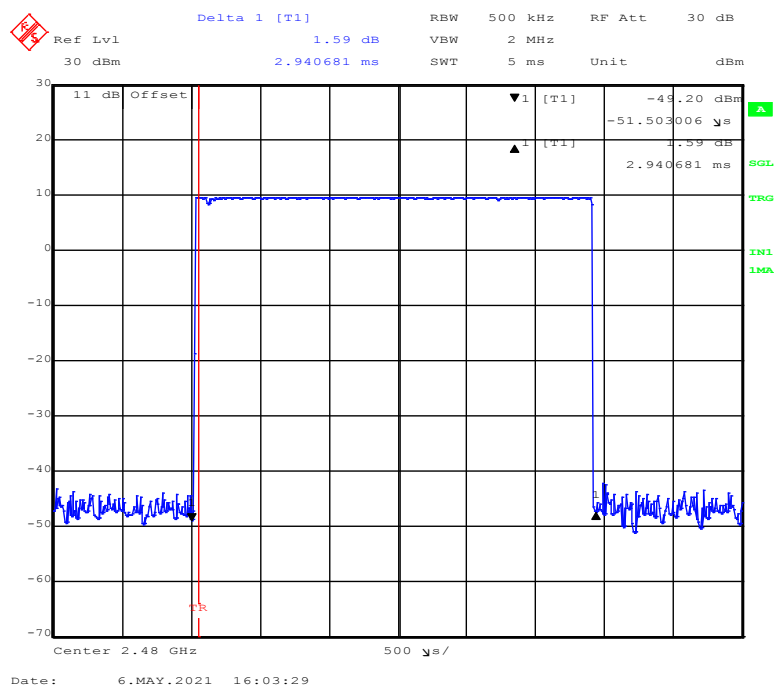
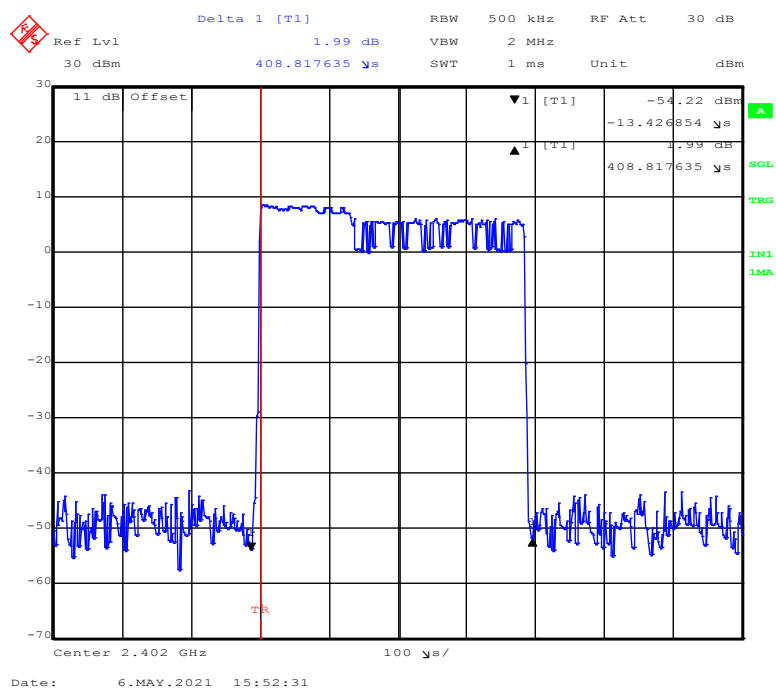
BDR (GFSK): Pulse time, Low Channel, DH1**BDR (GFSK): Pulse time, Middle Channel, DH1**

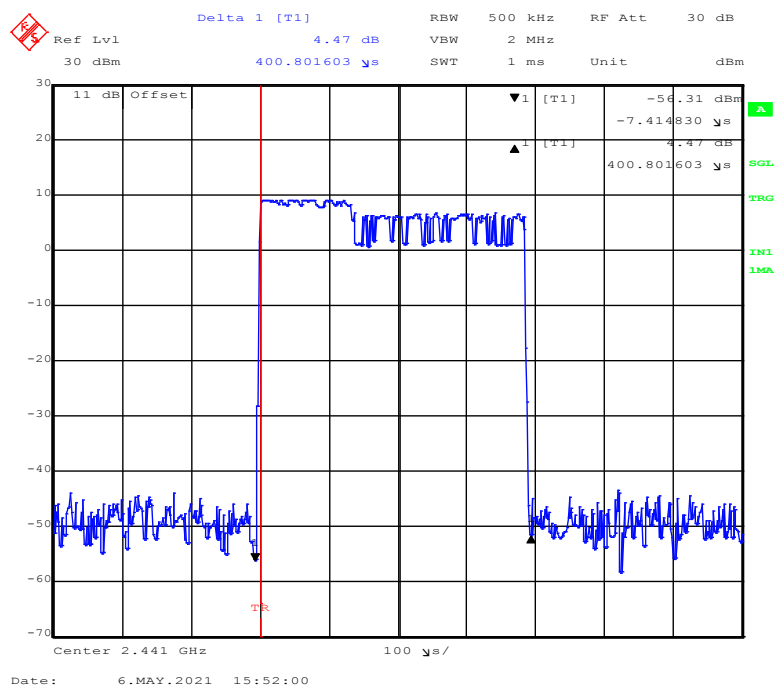
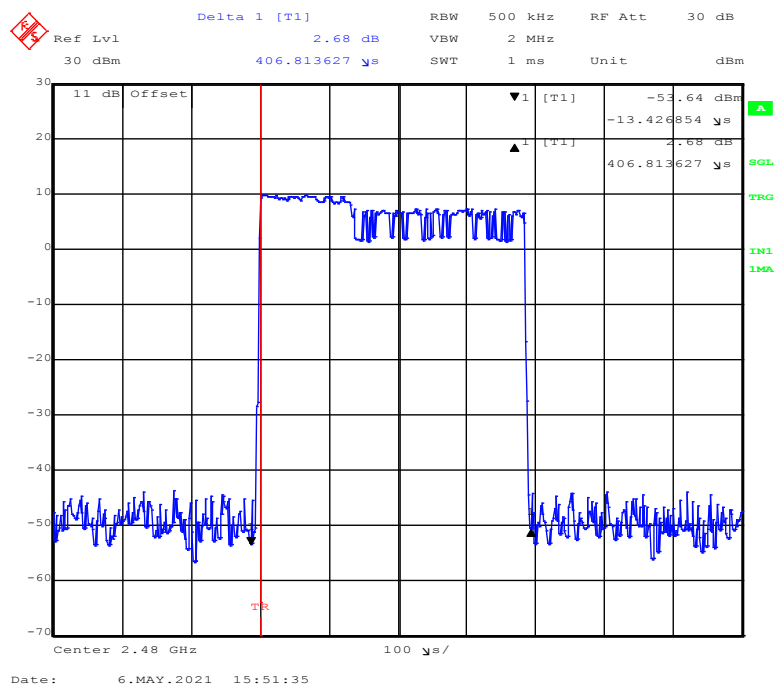
Delta 1 [T1] 2.76 dB
 RBW 500 kHz RF Att 30 dB
 Ref Lvl 30 dBm Unit dBm
 392.785571 μs
 -50.51 dBm
 -7.414830 μs
 2.76 dB
 392.785571 μs
 Tr
 Center 2.48 GHz 100 μs/

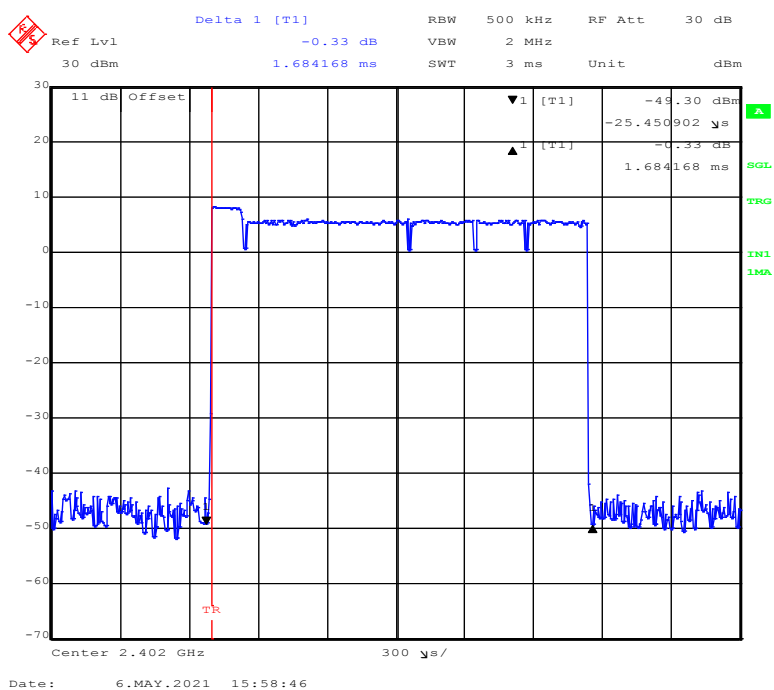
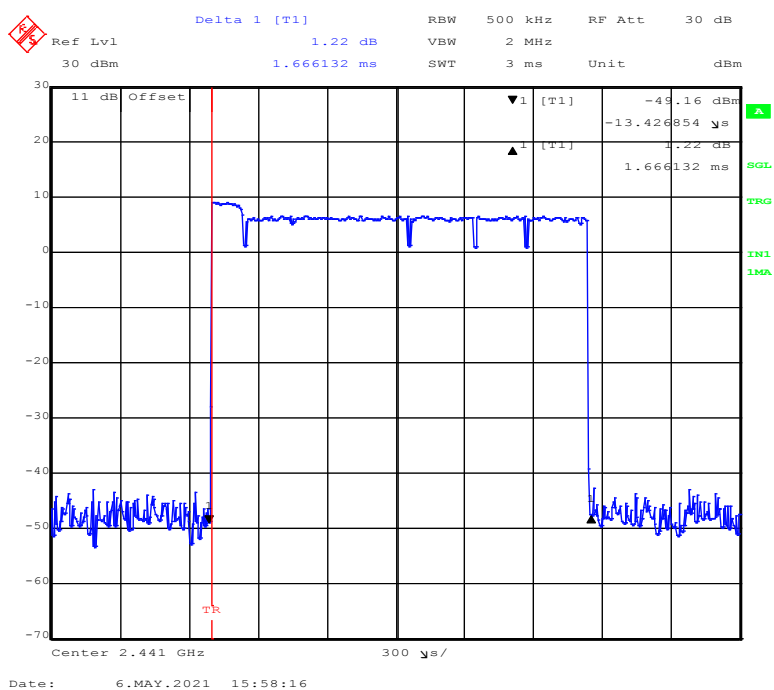
[illegible]

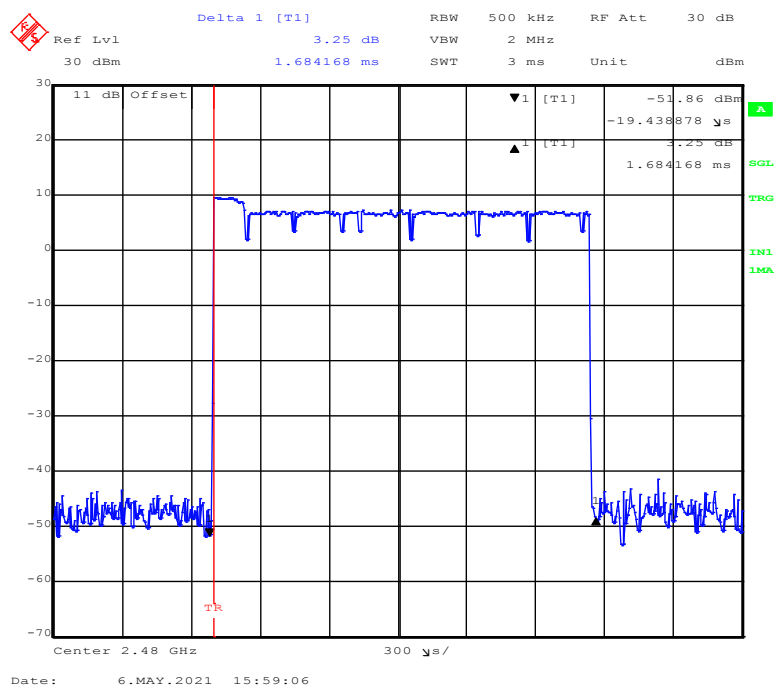
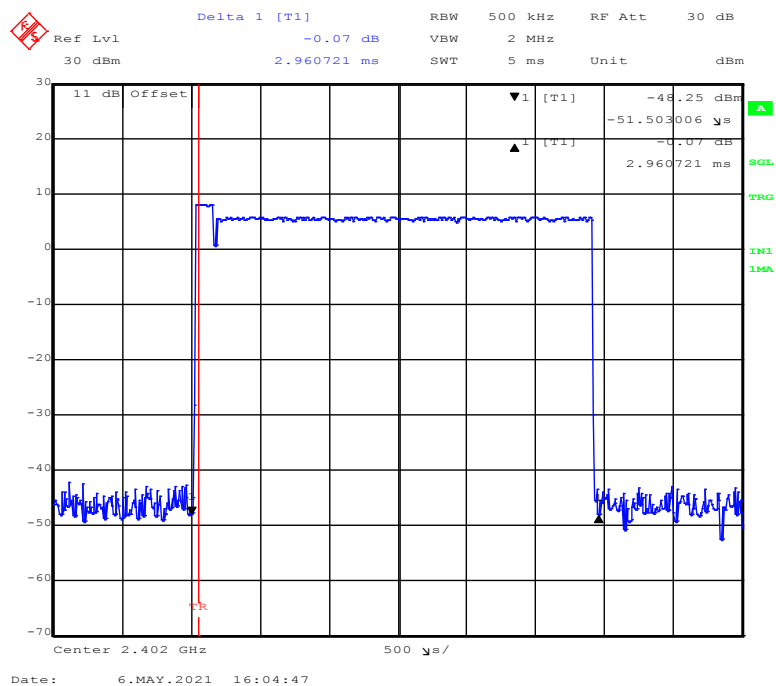
BDR (GFSK): Pulse time, Middle Channel, DH3**BDR (GFSK): Pulse time, High Channel, DH3**

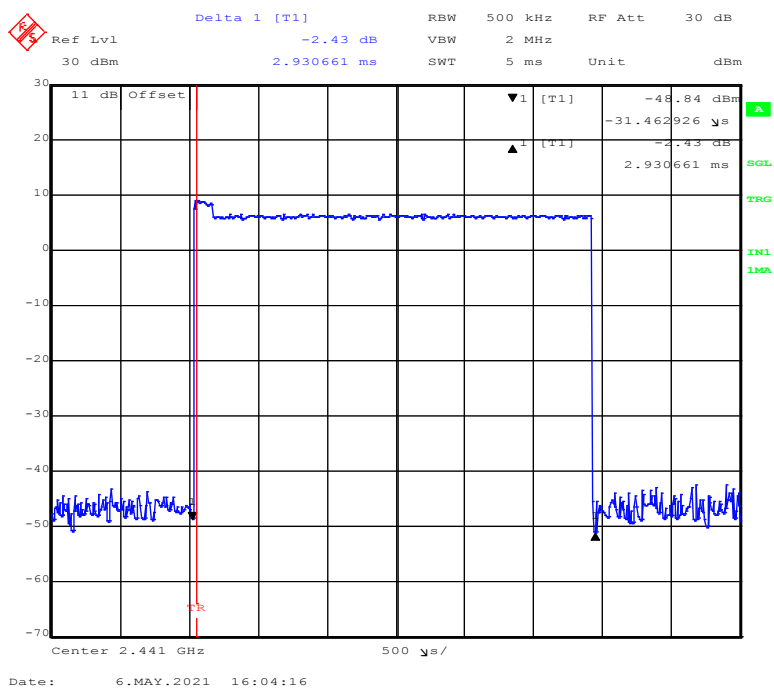
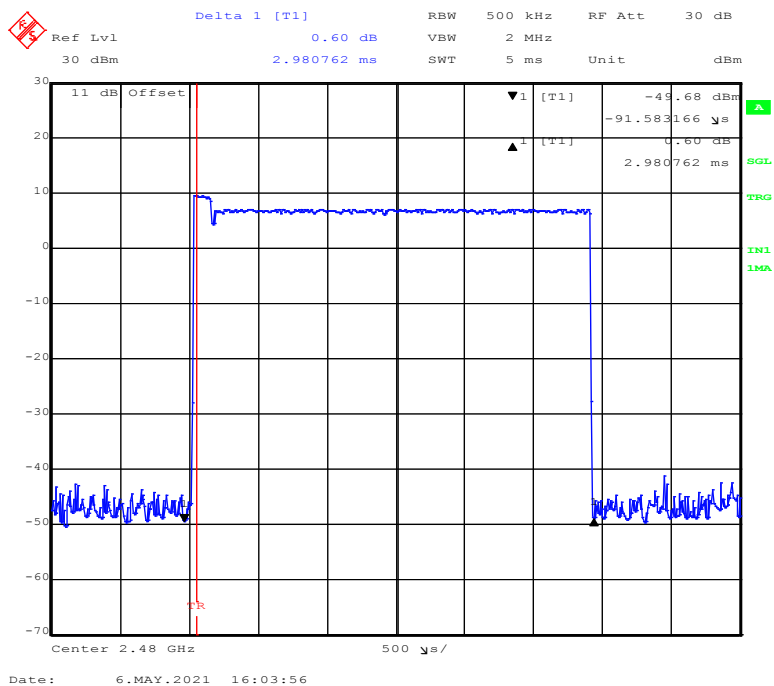
BDR (GFSK): Pulse time, Low Channel, DH5**BDR (GFSK): Pulse time, Middle Channel, DH5**

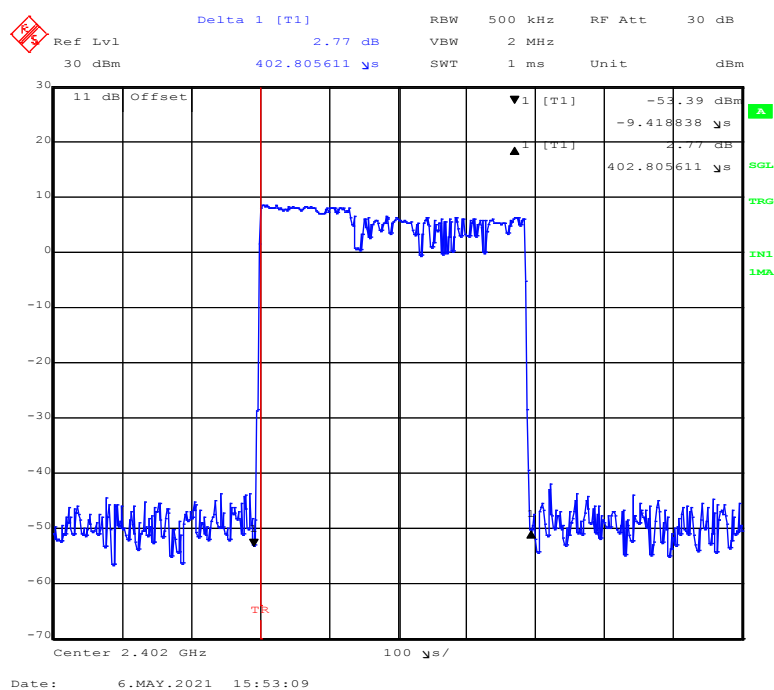
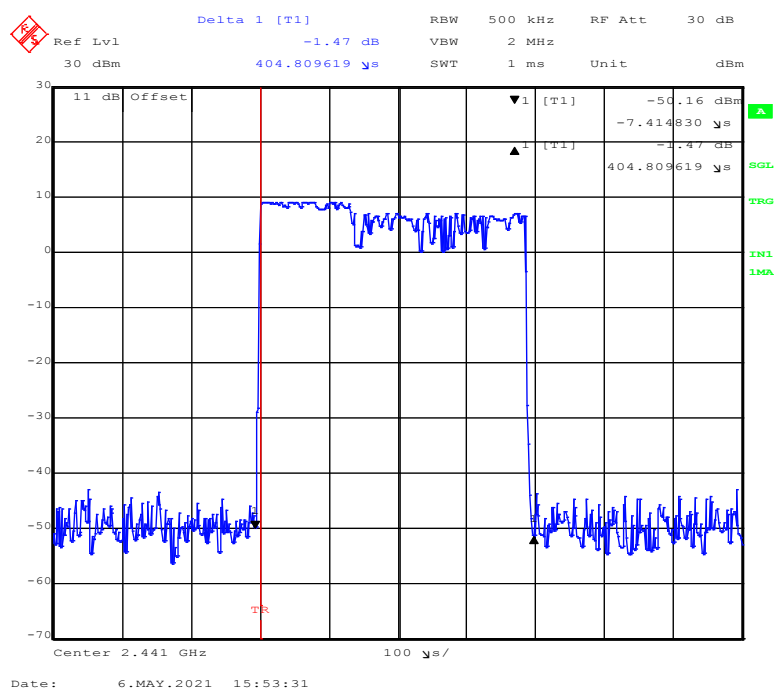
BDR (GFSK): Pulse time, High Channel, DH5**EDR ($\pi/4$ -DQPSK): Pulse time, Low Channel, 2DH1**

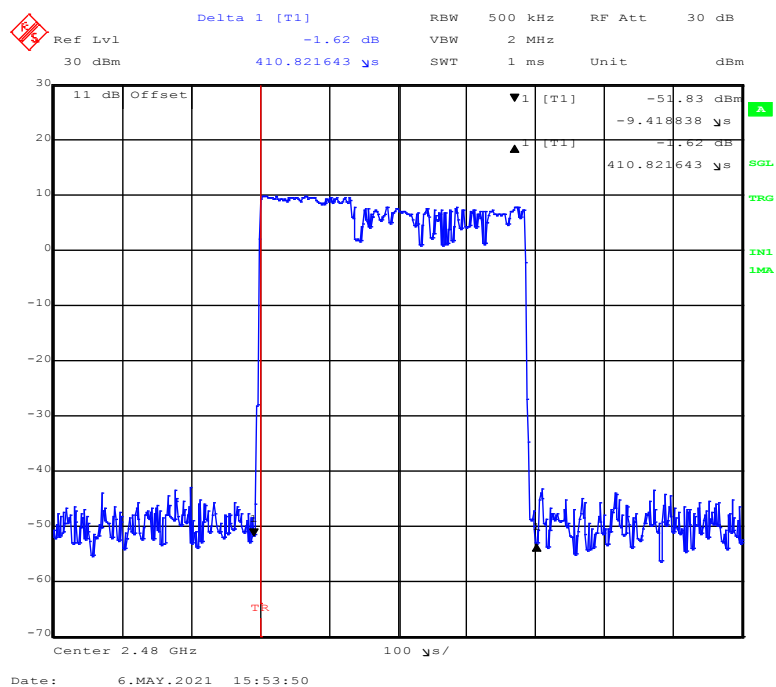
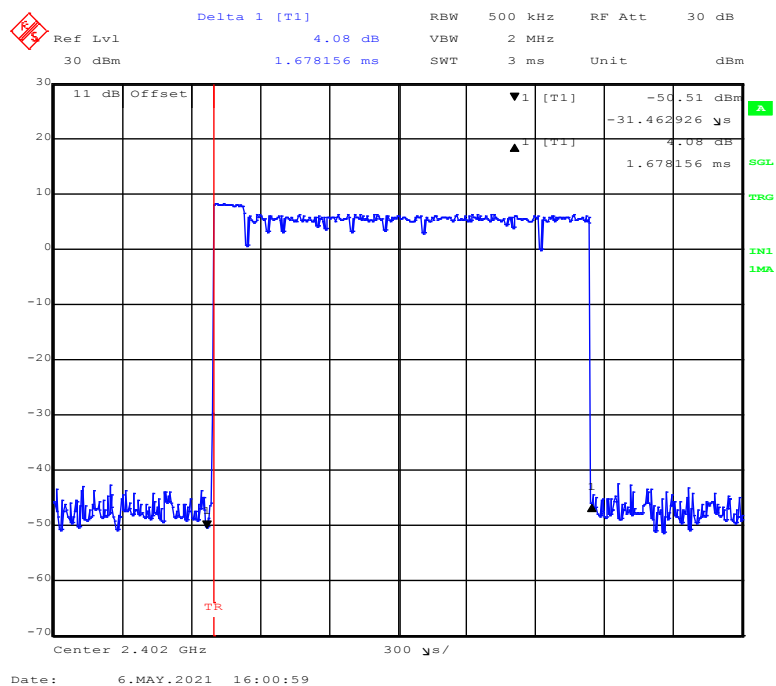
EDR ($\pi/4$ -DQPSK):Pulse time, Middle Channel, 2DH1**EDR ($\pi/4$ -DQPSK):Pulse time, High Channel, 2DH1**

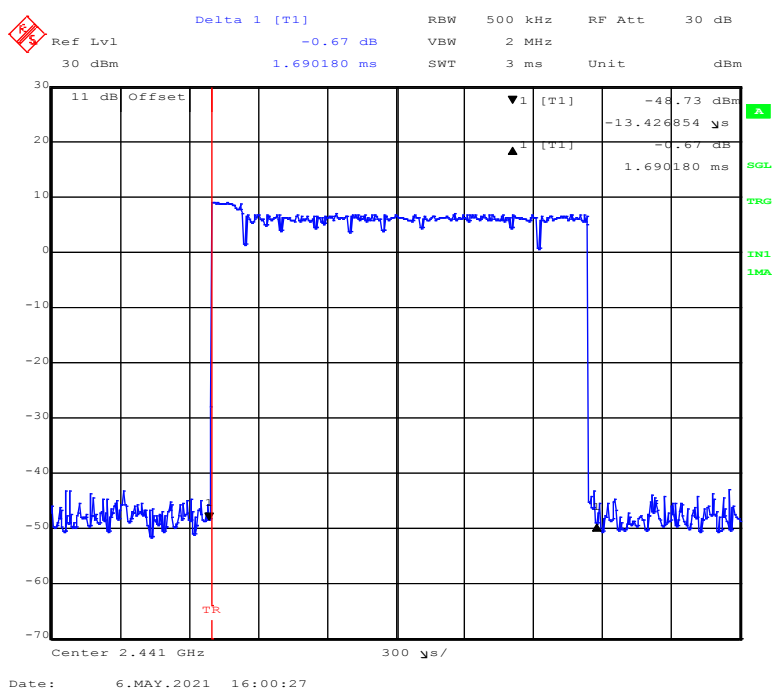
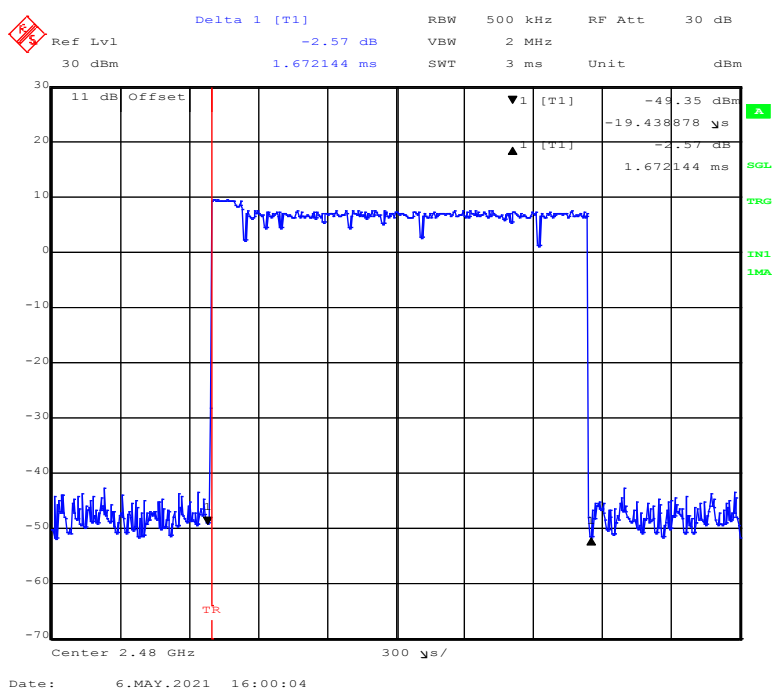
EDR ($\pi/4$ -DQPSK):Pulse time, Low Channel, 2DH3EDR ($\pi/4$ -DQPSK):Pulse time, Middle Channel, 2DH3

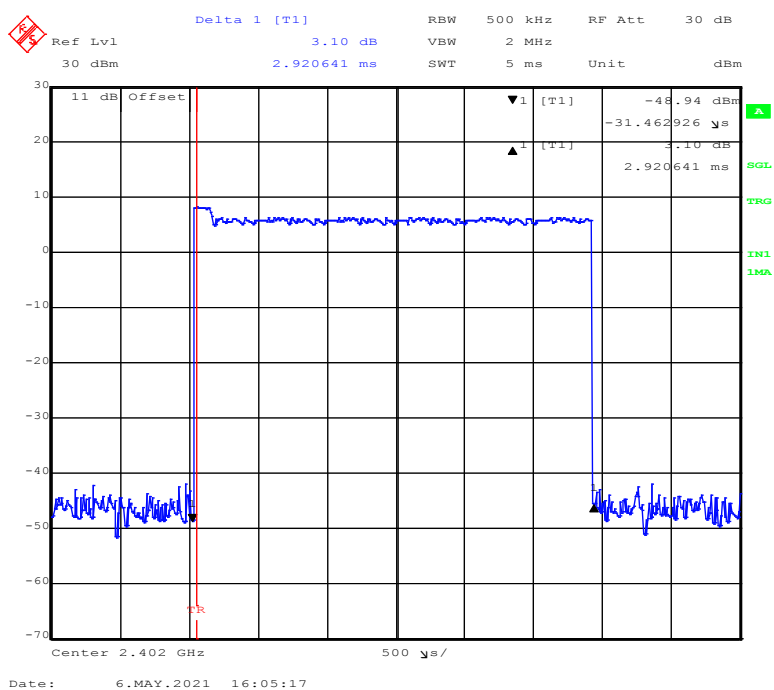
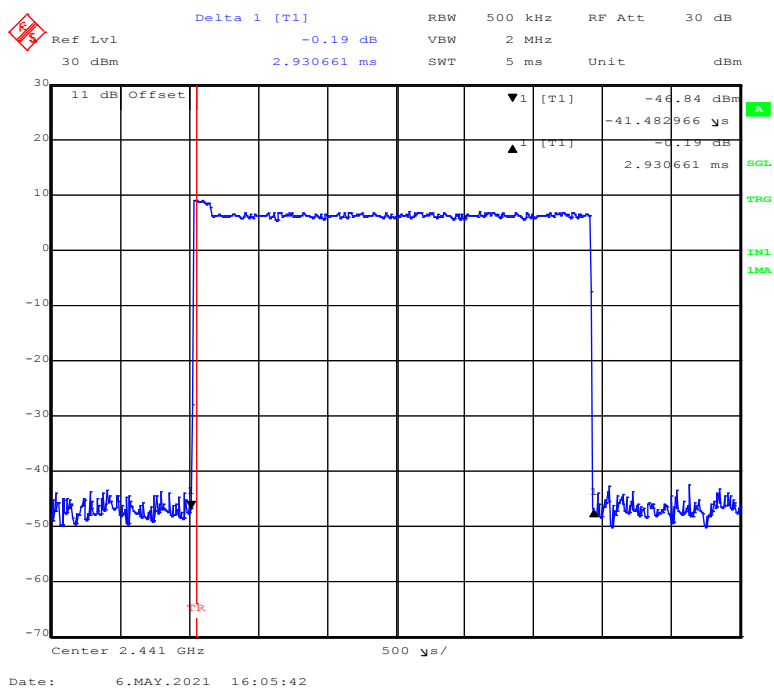
EDR ($\pi/4$ -DQPSK):Pulse time, High Channel, 2DH3**EDR ($\pi/4$ -DQPSK):Pulse time, Low Channel, 2DH5**

EDR ($\pi/4$ -DQPSK):Pulse time, Middle Channel, 2DH5**EDR ($\pi/4$ -DQPSK):Pulse time, High Channel, 2DH5**

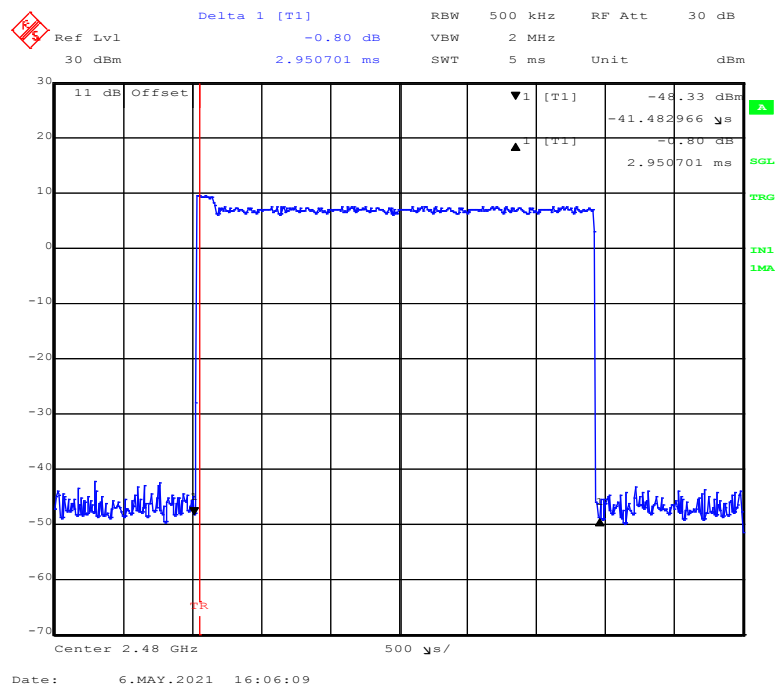
EDR (8DPSK): Pulse time, Low Channel, 3DH1**EDR (8DPSK): Pulse time, Middle Channel, 3DH1**

EDR (8DPSK): Pulse time, High Channel, 3DH1**EDR (8DPSK): Pulse time, Low Channel, 3DH3**

EDR (8DPSK): Pulse time, Middle Channel, 3DH3**EDR (8DPSK): Pulse time, High Channel, 3DH3**

EDR (8DPSK): Pulse time, Low Channel, 3DH5**EDR (8DPSK): Pulse time, Middle Channel, 3DH5**

EDR (8DPSK): Pulse time, High Channel, 3DH5



FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to §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. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Test Procedure

- a. Use the following spectrum analyzer settings:
 - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW $\geq$ RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
- b. Allow trace to stabilize.
- c. Use the marker-to-peak function to set the marker to the peak of the emission.
- d. The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e. A plot of the test results and setup description shall be included in the test report.

Test Data

Environmental Conditions

Temperature:	22.7~23.3 °C
Relative Humidity:	50~52 %
ATM Pressure:	101.3~101.7 kPa

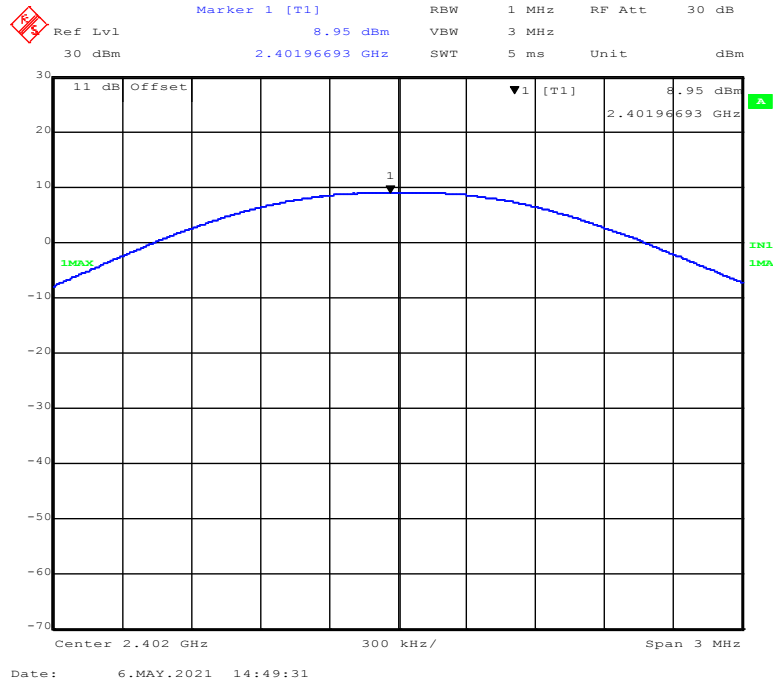
The testing was performed by Tyrone Wang from 2021-05-06 to 2021-05-31.

EUT operation mode: Transmitting

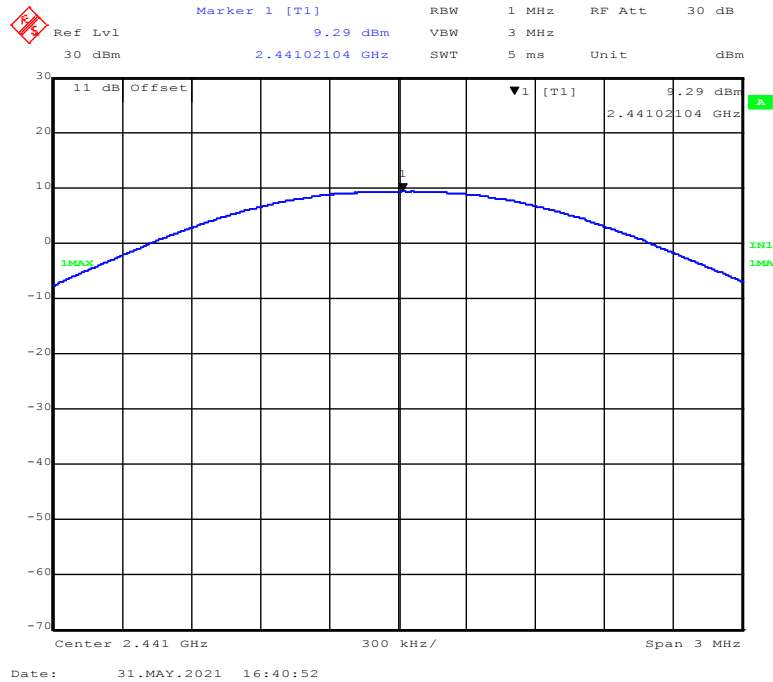
Test Result: Compliant.

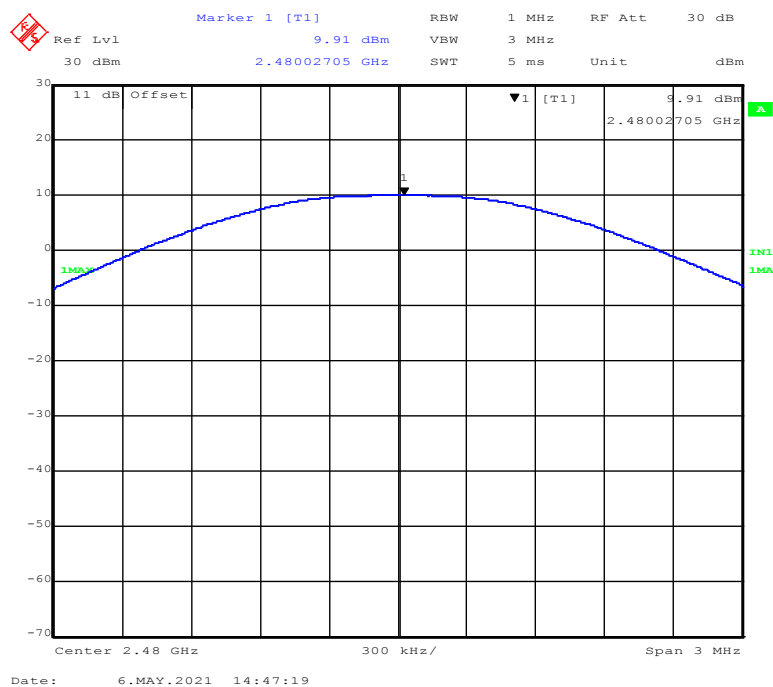
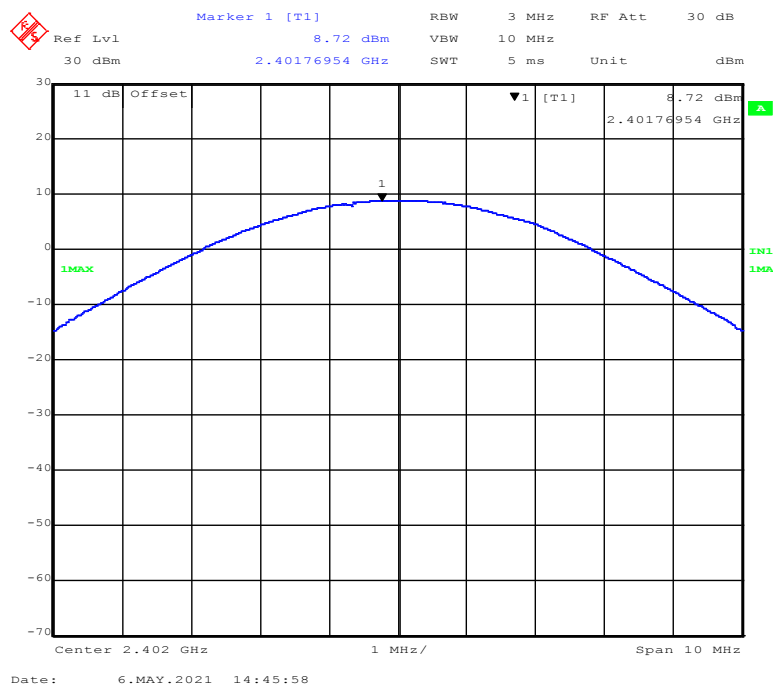
Mode	Frequency (MHz)	Output Power		Limit (mW)
		(dBm)	(mW)	
BDR (GFSK)	2402	8.95	7.85	1000
	2441	9.91	9.79	1000
	2480	9.29	8.49	1000
EDR ($\pi/4$-DQPSK)	2402	8.72	7.45	125
	2441	9.18	8.28	125
	2480	9.63	9.18	125
EDR (8DPSK)	2402	8.72	7.45	125
	2441	9.29	8.49	125
	2480	9.63	9.18	125

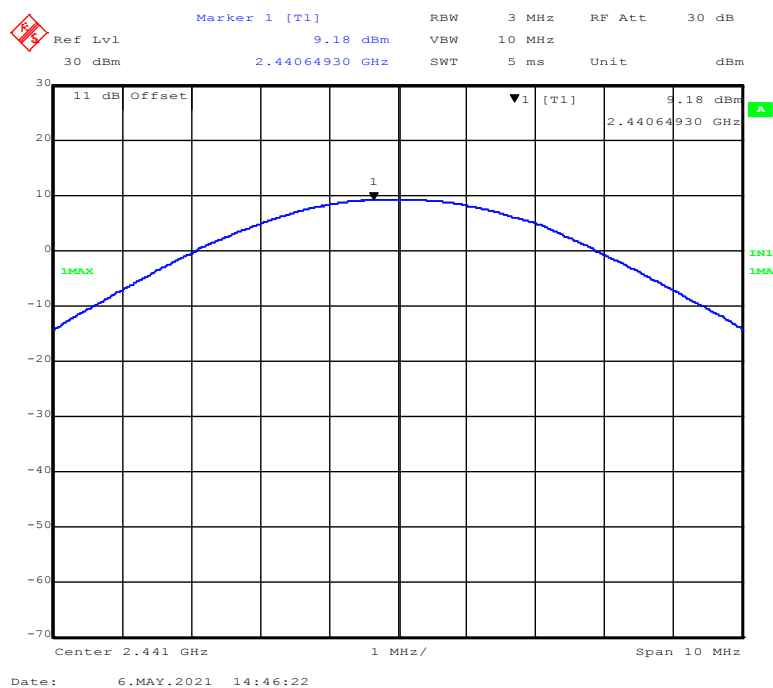
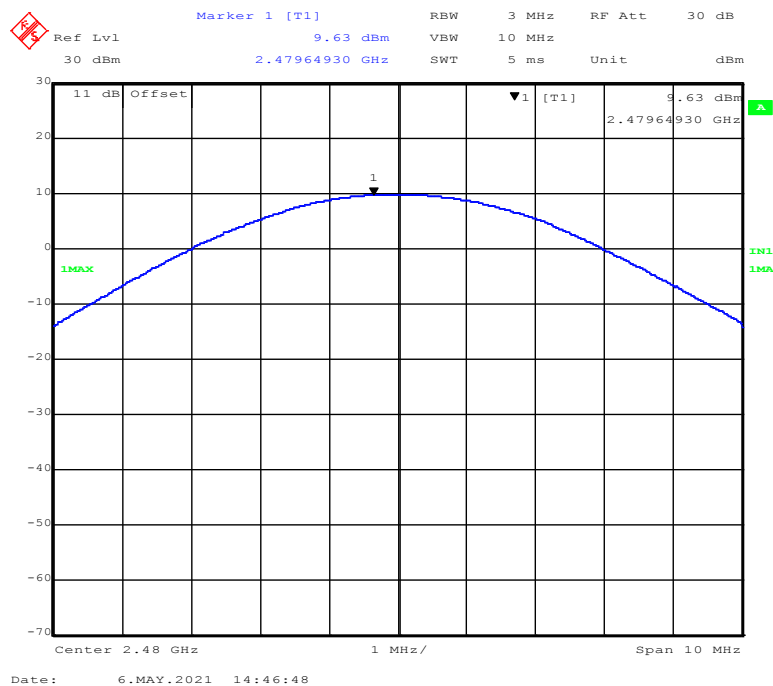
BDR (GFSK): 2402MHz

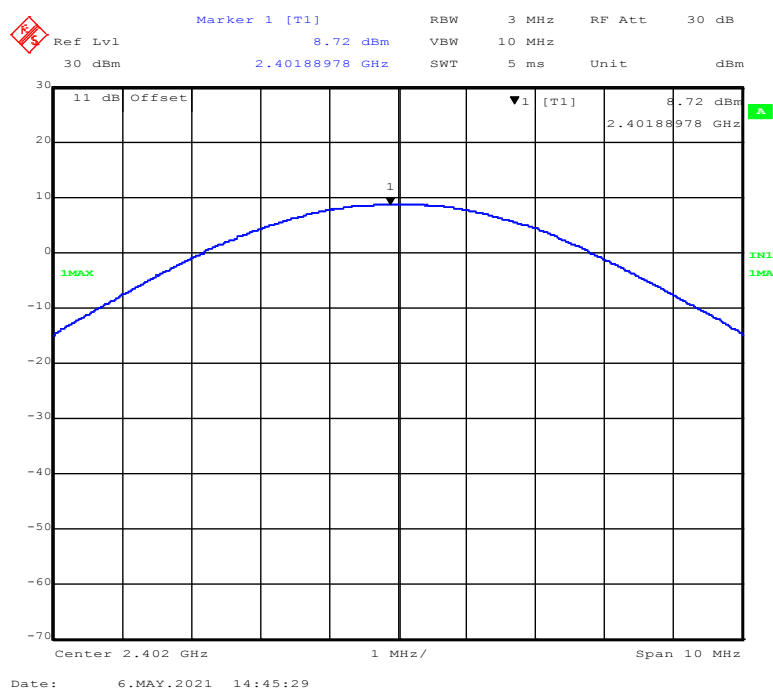
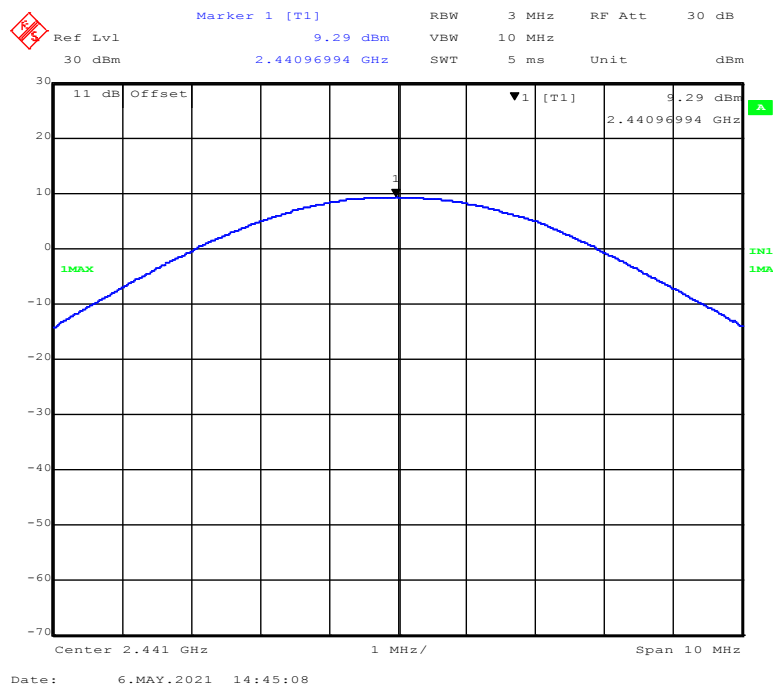


BDR (GFSK): 2441MHz

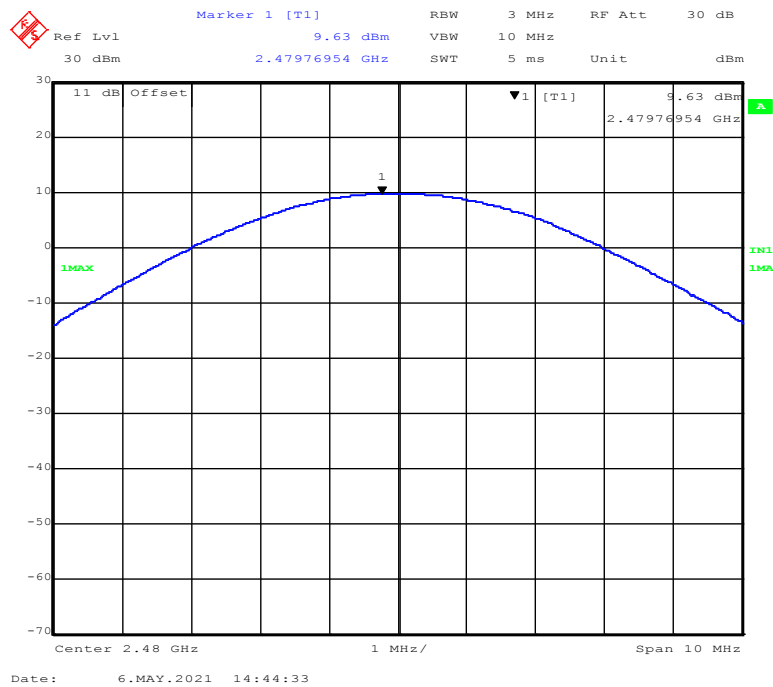


BDR (GFSK): 2480MHz**EDR($\pi/4$ -DQPSK): 2402MHz**

EDR($\pi/4$ -DQPSK): 2441MHz**EDR($\pi/4$ -DQPSK): 2480MHz**

EDR(8DPSK): 2402MHz**EDR(8DPSK): 2441MHz**

EDR(8DPSK): 2480MHz



FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

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)).

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Data

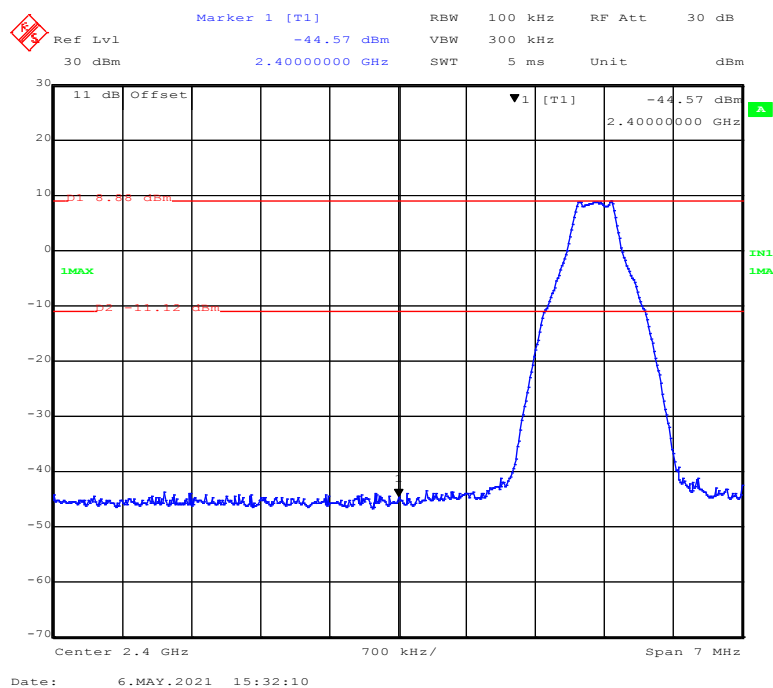
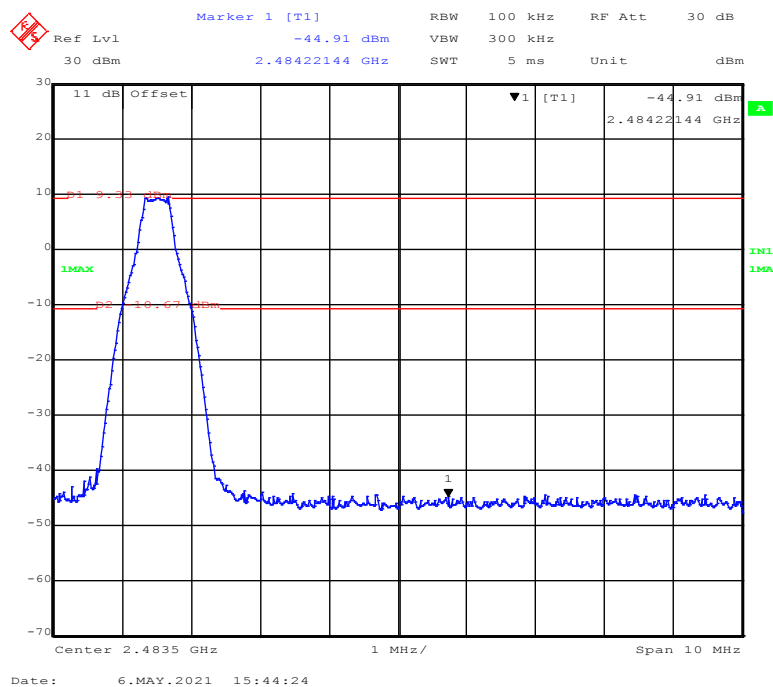
Environmental Conditions

Temperature:	22.8-23.2 °C
Relative Humidity:	49-53 %
ATM Pressure:	101.1-101.3 kPa

The testing was performed by Tyrone Wang from 2021-05-06 to 2021-05-10.

EUT operation mode: Transmitting & Hopping

Test Result: Compliant.

Band Edge**BDR (GFSK): Left Side - Transmitting****BDR (GFSK): Right Side - Transmitting**

Ref Lvl 30 dBm RBW 100 kHz RF Att 30 dB
 30 dBm 2.39898998 GHz SWT 5 ms Unit dBm

Marker 1 [T1] -43.38 dBm
 2.39898998 GHz

11 dB Offset
 J1 -11.13 dBm
 J2 -43.38 dBm

1MAX
 IN1
 1MA

Center 2.4 GHz 700 kHz/ Span 7 MHz

Date: 6.MAY.2021 15:33:17

Ref Lvl 30 dBm
 RBW 100 kHz
 VBW 300 kHz
 RF Att 30 dB
 Unit dBm
 SWT 5 ms

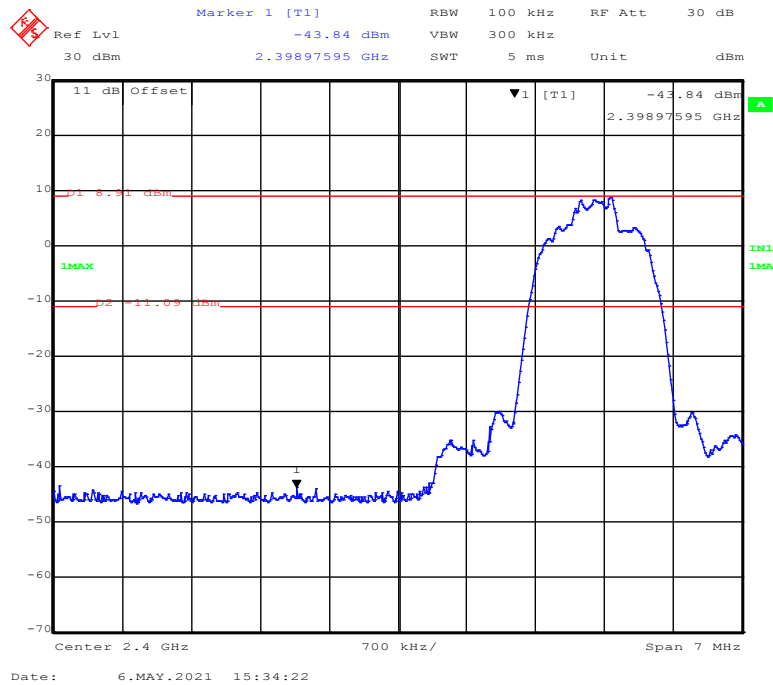
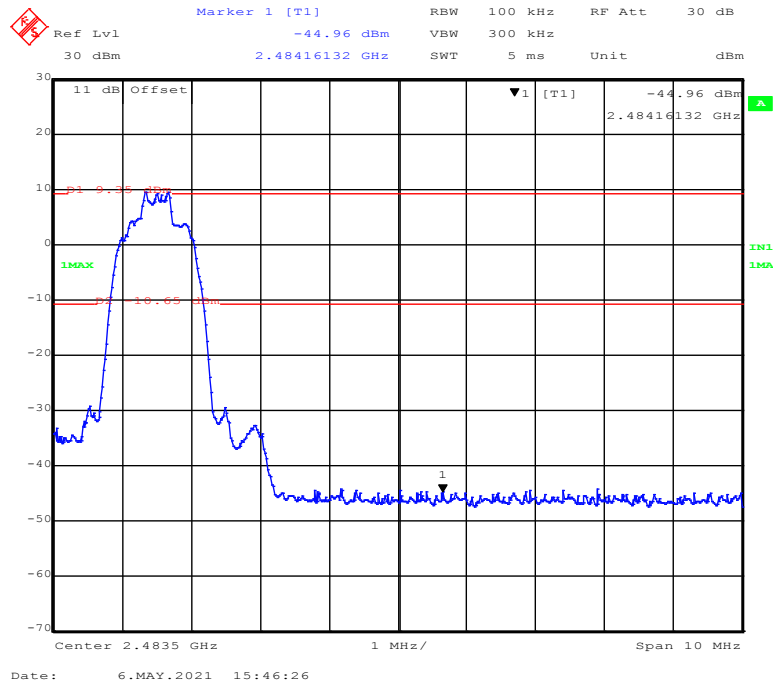
Marker 1 [T1]
 -44.20 dBm
 2.48396092 GHz

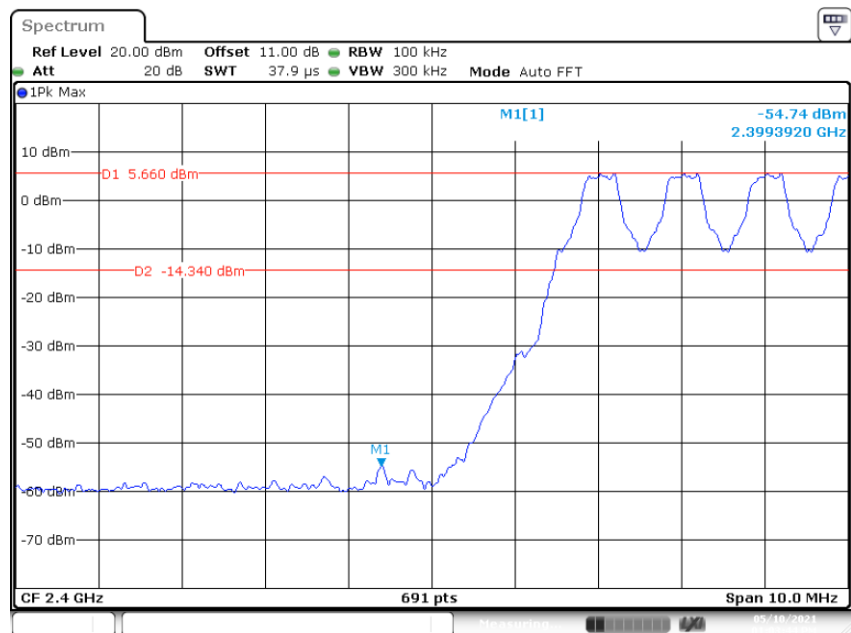
11 dB Offset
 30 dBm
 -44.20 dBm
 2.48396092 GHz

1MAX
 10.71 dBm
 1

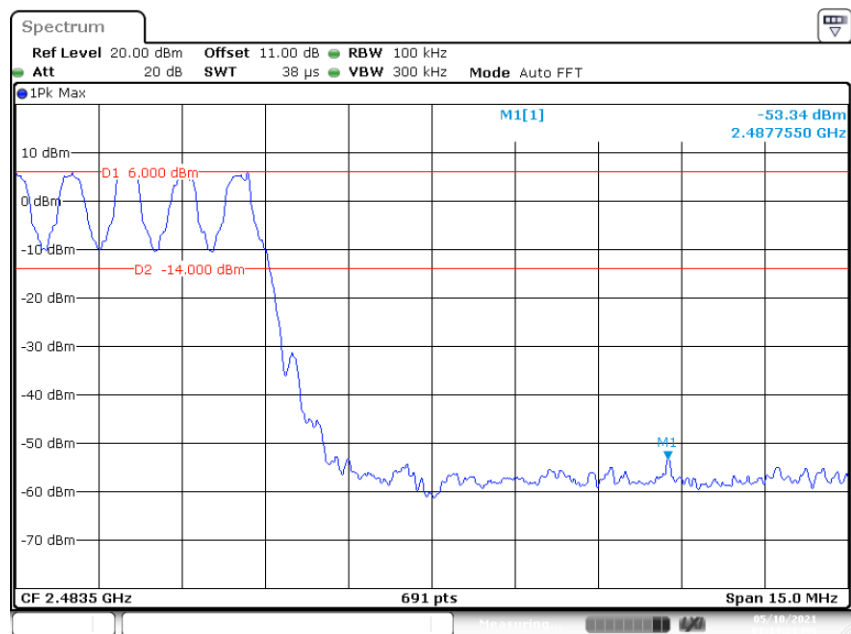
Center 2.4835 GHz
 1 MHz/
 Span 10 MHz

Date: 6.MAY.2021 15:45:36

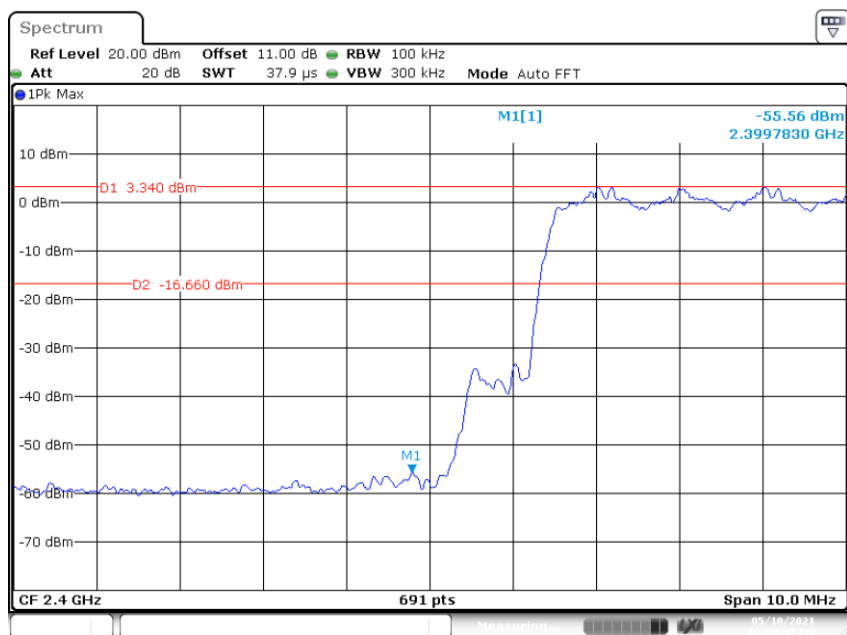
EDR (8DPSK): Left Side - Transmitting**EDR (8DPSK): Right Side - Transmitting**

BDR (GFSK): Left Side - Hopping

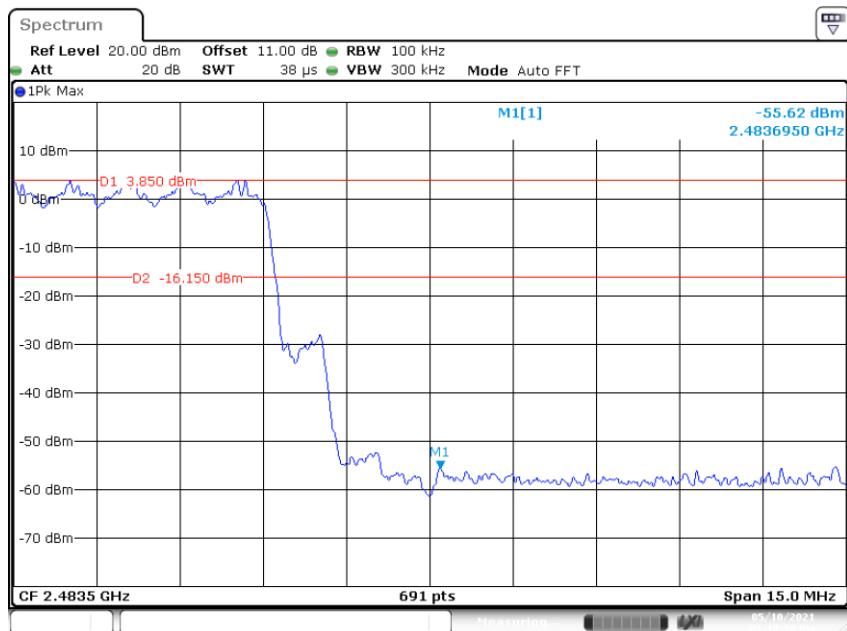
Date: 10.MAY.2021 13:03:44

BDR (GFSK): Right Side- Hopping

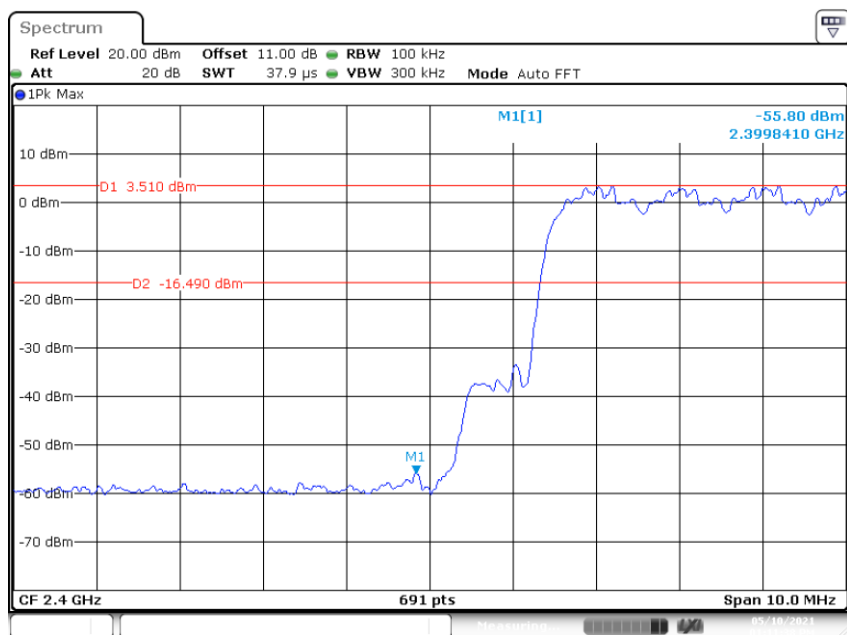
Date: 10.MAY.2021 13:14:21

EDR ($\pi/4$ -DQPSK): Left Side- Hopping

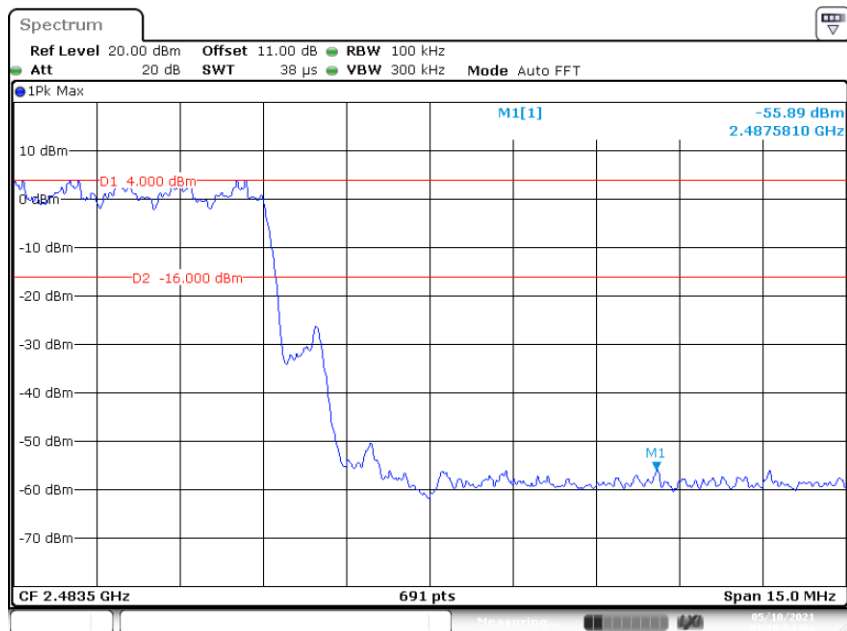
Date: 10.MAY.2021 13:09:47

EDR ($\pi/4$ -DQPSK): Right Side- Hopping

Date: 10.MAY.2021 13:17:38

EDR (8DPSK): Left Side- Hopping

Date: 10.MAY.2021 13:11:39

EDR (8DPSK): Right Side- Hopping

Date: 10.MAY.2021 13:18:55

Declarations

- 1: BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.
- 2: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
- 3: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 4: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.
- 5: This report cannot be reproduced except in full, without prior written approval of the Company.
- 6: This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

******* END OF REPORT *******