



Full

TEST REPORT

No. I18D00020-SRD01

For

Client : Hisense International Co., Ltd.

Production : Mobile Phone

Model Name : Hisense F23 PLUS

FCC ID: 2AD0BF23PLUS

Hardware Version: YK736-MB-V0.2

Software Version: Hisense_F17_4G_10_S01_20180118

Issued date: 2018-03-20

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of ECIT Shanghai.

Test Laboratory:

ECIT Shanghai, East China Institute of Telecommunications

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RF Test Report

Report No.: I18D00020-SRD01

Revision Version

Report Number	Revision	Date	Memo
I18D00020-SRD01	00	2018-03-12	Initial creation of test report
I18D00020-SRD01	01	2018-03-20	Second creation of test report

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1. Test Laboratory

1.1. Testing Location

Company Name:	ECIT Shanghai, East China Institute of Telecommunications
Address:	7-8F, G Area, No. 668, Beijing East Road, Huangpu District, Shanghai, P. R. China
Postal Code:	200001
Telephone:	(+86)-021-63843300
Fax:	(+86)-021-63843301

1.2. Testing Environment

Normal Temperature:	15-35°C
Extreme Temperature:	-10/+55°C
Relative Humidity:	20-75%

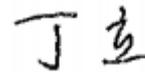
1.3. Project data

Project Leader:	Xu Yuting
Testing Start Date:	2018-02-02
Testing End Date:	2018-02-12

1.4. Signature



Yang Dejun
(Prepared this test report)



Ding Li
(Reviewed this test report)



Zheng Zhongbin
Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: Hisense International Co., Ltd.
Address: Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071,
China
Postcode: 266010
Telephone: /

2.2. Manufacturer Information

Company Name: Hisense Communications Co., Ltd.
Address: 218 Qianwangang Road, Economic & Technological Development
Zone, Qingdao, Shandong Province, P.R. China
Postcode: 266510
Telephone: /

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	Mobile Phone
Model name	Hisense F23 PLUS
BT Frequency	2402MHz-2480MHz
BT Channel	Channel0-Channel78
BT type of modulation	GFSK/ $\pi/4$ DQPSK/8DPSK
Extreme Temperature	-10/+55 °C
Nominal Voltage	3.8V
Extreme High Voltage	4.35V
Extreme Low Voltage	3.5V

Note: Photographs of EUT are shown in ANNEX A of this test report.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
N09	861854039320062	YK736-MB-V0. 2	Hisense_F17_4G_10_ S01_20180118	2018-01-24
N08	N/A	YK736-MB-V0. 2	Hisense_F17_4G_10_ S01_20180118	2018-01-24
N14	861854039320062	YK736-MB-V0. 2	Hisense_F17_4G_10_ S01_20180118	2018-02-08

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	RF cable	---
AE2	---	---

*AE ID: is used to identify the test sample in the lab internally.

3.4. Internal Identification of AE used during the test

Main Supply

Part Name	Model Name	supplier	Remark
LCM	JTD055094I0	JINGTAI	

Secondary Supply

Part Name	Model Name	supplier	Remark
LCM	Y87597	Digital	

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15,Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.	2017
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013

5. Summary of Test Results

A brief summary of the tests carried out is shown as following.

Measurement Items	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.247(b)	/	P
Peak Power Spectral Density	15.247(d)	/	NA
20dB Occupied Bandwidth	15.247(a)	/	P
Band Edges Compliance	15.247(b)	/	P
Transmitter Spurious Emission-Conducted	15.247	/	P
Transmitter Spurious Emission-Radiated	15.247,15.209,	/	P
Time Of Occupancy (Dwell Time)	15.247 (a) (1) (iii)	/	P
Carrier Frequency Separation	15.247 (a) (1)	/	P
Number Of Hopping Channels	15.247 (a)(1)(iii)	/	P
AC Powerline Conducted Emission	15.107,15.207	/	P

Please refer to part 5 for detail.

The measurements are according to ANSI C63.10.

Terms used in Verdict column

P	Pass, the EUT complies with the essential requirements in the standard.
NP	Not Perform, the test was not performed by ECIT.
NA	Not Applicable, the test was not applicable.
F	Fail, the EUT does not comply with the essential requirements in the standard.

Test Conditions

Tnom	Normal Temperature
Tmin	Low Temperature
Tmax	High Temperature
Vnom	Normal Voltage

Vmin	Low Voltage
Vmax	High Voltage
Hnom	Norm Humidity
Anom	Norm Air Pressure

For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

Temperature	Tnom	22°C
Voltage	Vnom	3.8V
Humidity	Hnom	32%
Air Pressure	Anom	1010hPa

Note:

- a. All the test data for each data were verified, but only the worst case was reported.
- b. The GFSK, $\pi/4$ DQPSK and 8DPSK were set in DH1 for GFSK, 2-DH1 for $\pi/4$ DQPSK, 3-DH1 for 8DPSK.
- c. The DC and low frequency voltages' measurement uncertainty is $\pm 2\%$.

5.1. Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with section 3.

The test results of this test report relate exclusively to the item(s) tested as specified in section 5.

5.2. Statements

The Hisense F23 PLUS, supporting GSM/GPRS/EDGE/WCDMA/HSPA+/DC-HSDPA/LTE/WLAN/BT/BLE, manufactured by Hisense Communications Co., Ltd, is a new product for testing.

ECIT has verified that the compliance of the tested device specified in section 5 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 5 of this test report.

6. Test result

6.1. Peak Output Power-Conducted

6.1.1 Measurement Limit

Standard	Limit (dBm)
FCC Part 15.247(b)(1)	< 30

6.1.2 Test Condition:

Hopping Mode	RBW	VBW	Span	Sweptime
Hopping OFF	3MHz	10MHz	9MHz	Auto

6.1.3 Test procedure

The measurement is according to ANSI C63.10 clause 7.8.5.

1. The output power of EUT was connected to the spectrum analyzer and CBT32 by cable and divide. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Measure the conducted output power and record the results it.

6.1.4 Measurement Results:

For GFSK

Channel	Ch0 2402 MHz	Ch39 2441 MHz	CH78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	4.007	4.511	4.74	P
	Fig.1	Fig.2	Fig.3	

For $\pi/4$ DQPSK

Channel	Ch0 2402 MHz	Ch39 2441 MHz	CH78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	2.718	3.45	3.382	P
	Fig.4	Fig.5	Fig.6	

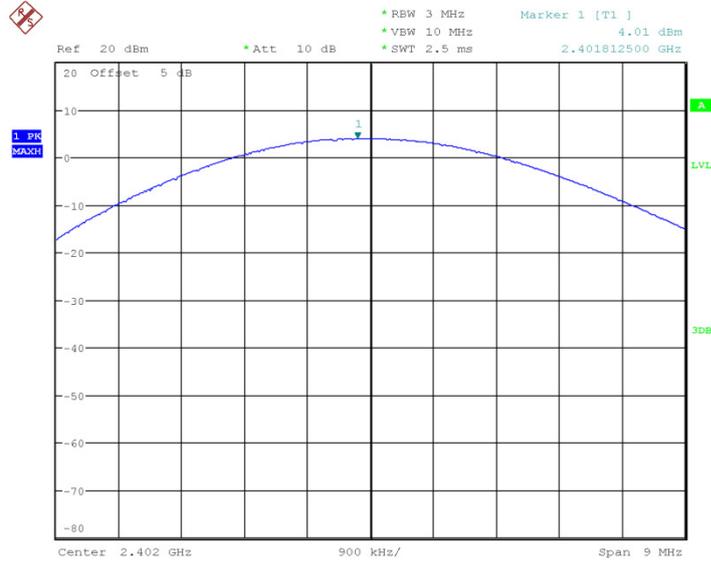
For 8DPSK

Channel	Ch0 2402 MHz	Ch39 2441 MHz	CH78 2480 MHz	Conclusion
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Peak Conducted Output Power (dBm)	2.718	3.443	3.405	P
	Fig.7	Fig.8	Fig.9	

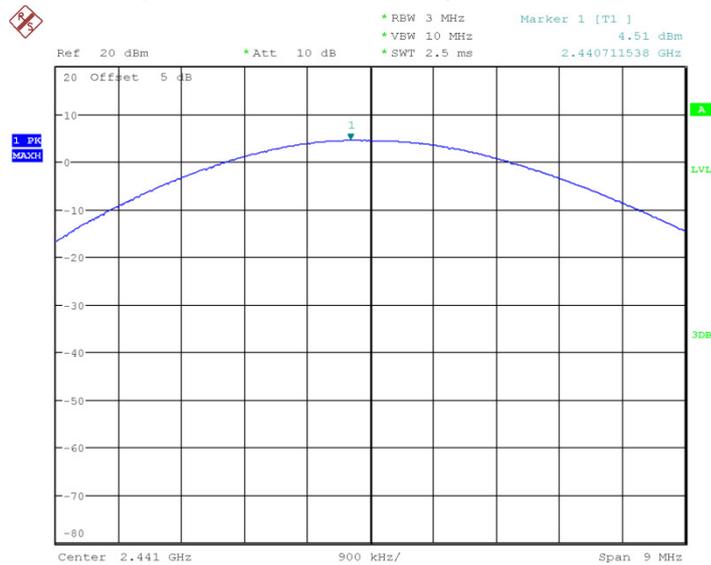
Conclusion: PASS

Test graphs an below



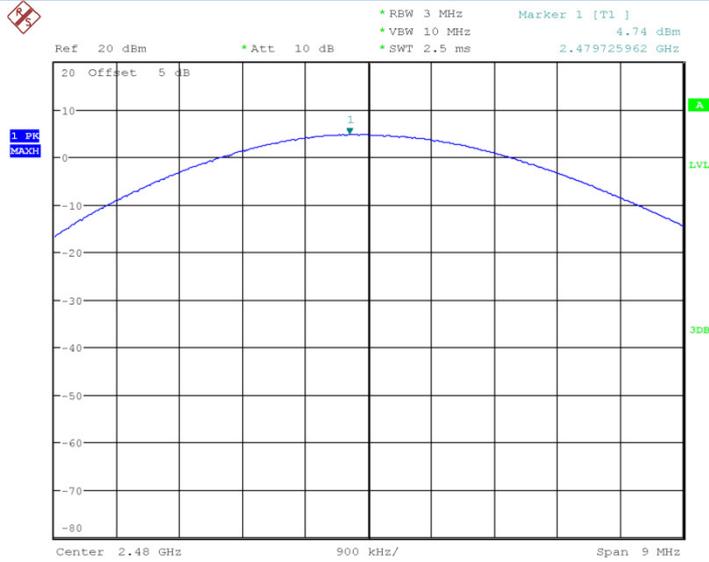
Date: 2.FEB.2018 11:17:03

Fig.1 Peak Conducted Output Power CH0, DH1



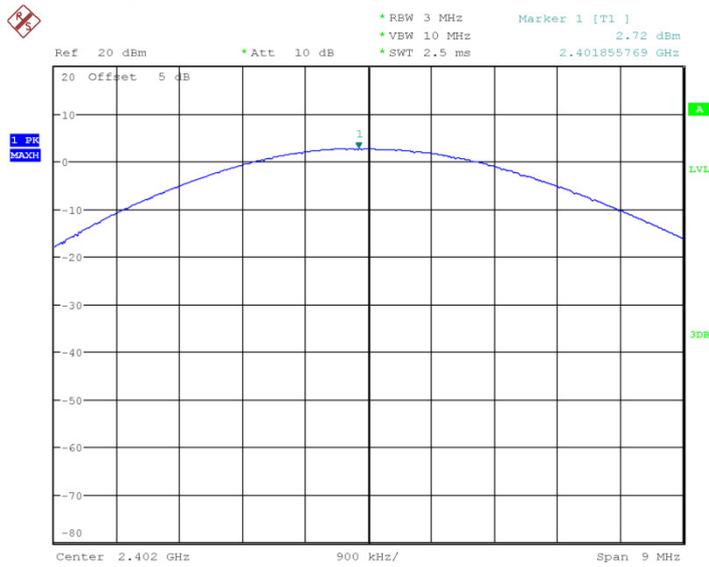
Date: 2.FEB.2018 11:17:18

Fig.2 Peak Conducted Output Power CH39, DH1



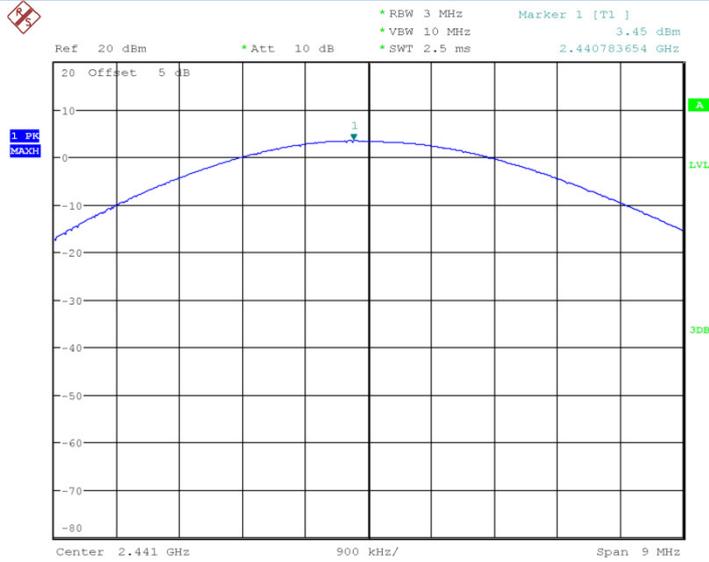
Date: 2.FEB.2018 11:17:33

Fig.3 Peak Conducted Output Power CH78, DH1



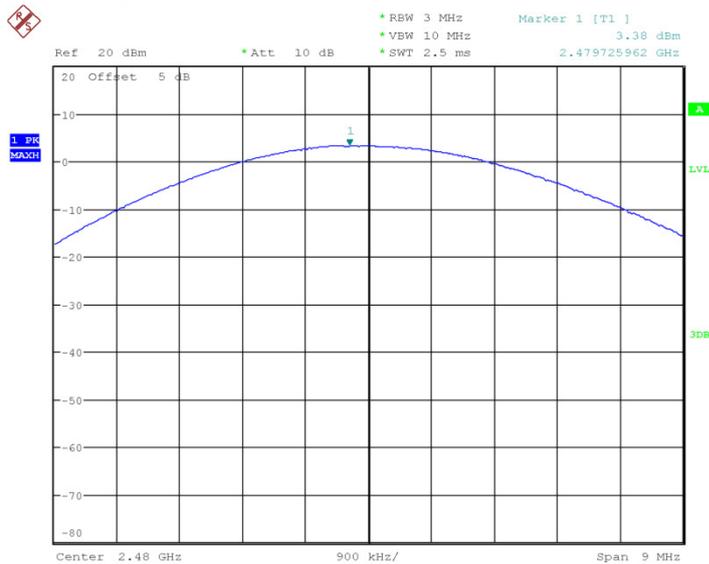
Date: 2.FEB.2018 11:17:48

Fig.4 Peak Conducted Output Power CH0, 2DH1



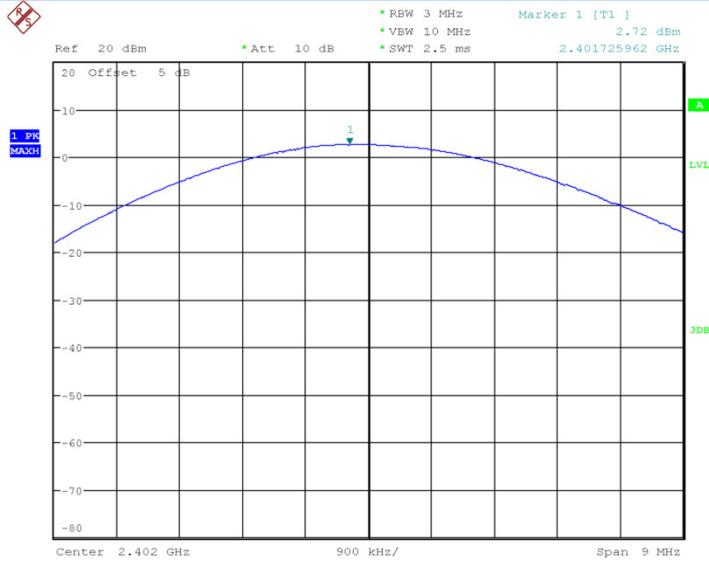
Date: 2.FEB.2018 11:18:02

Fig.5 Peak Conducted Output Power CH39, 2DH1



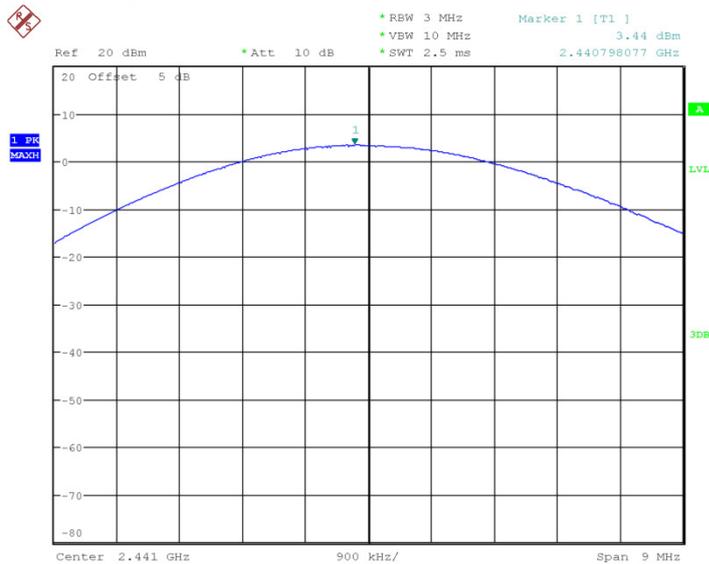
Date: 2.FEB.2018 11:18:17

Fig.6 Peak Conducted Output Power CH78, 2DH1



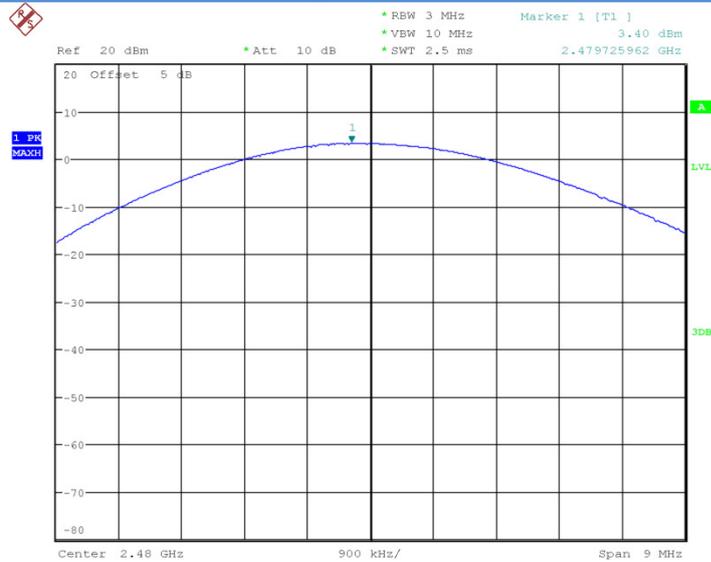
Date: 2.FEB.2018 11:18:32

Fig.7 Peak Conducted Output Power CH0, 3DH1



Date: 2.FEB.2018 11:18:47

Fig.8 Peak Conducted Output Power CH39, 3DH1



Date: 2.FEB.2018 11:19:02

Fig.9 Peak Conducted Output Power CH78, 3DH1

6.2. Frequency Band Edges-Conducted

6.2.1 Measurement Limit:

Standard	Limited(dBc)
FCC 47 CFR Part 15.247(d)	>20

6.2.2 Test procedure

The measurement is according to ANSI C63.10 clause 7.8.6.

1. Connect the EUT to spectrum analyzer.
2. Set RBW=100KHz, VBW=300KHz, span more than 1.5 times channel bandwidth (2MHz).
3. Detector =peak, sweep time=auto couple, trace mode=max hold.
4. Allow sweep to continue until the trace stabilizes.

6.2.3 Measurement results

For GFSK

Channel	Hopping	Band Edge Power (dBc)	Conclusion
0	Hopping OFF	Fig.10	P
	Hopping ON	Fig.11	P

78	Hopping OFF	Fig.12	P
	Hopping ON	Fig.13	P

For $\pi/4$ DQPSK

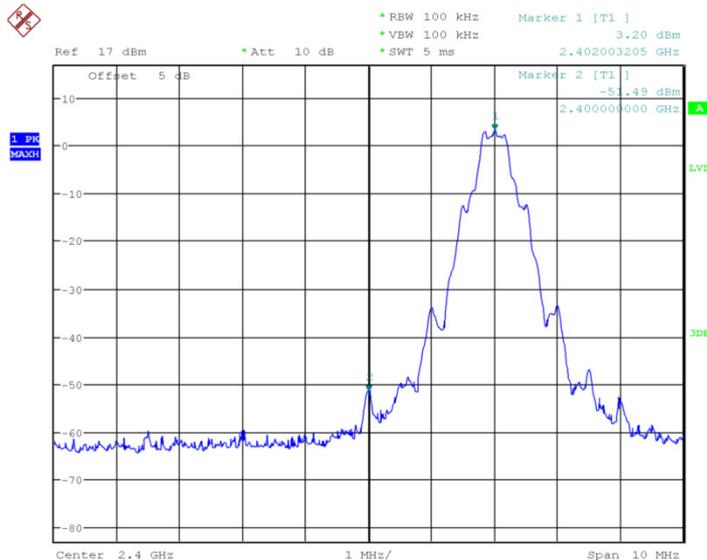
Channel	Hopping	Band Edge Power (dBc)	Conclusion
0	Hopping OFF	Fig.14	P
	Hopping ON	Fig.15	P
78	Hopping OFF	Fig.16	P
	Hopping ON	Fig.17	P

For 8DPSK

Channel	Hopping	Band Edge Power (dBc)	Conclusion
0	Hopping OFF	Fig.18	P
	Hopping ON	Fig.19	P
78	Hopping OFF	Fig.20	P
	Hopping ON	Fig.21	P

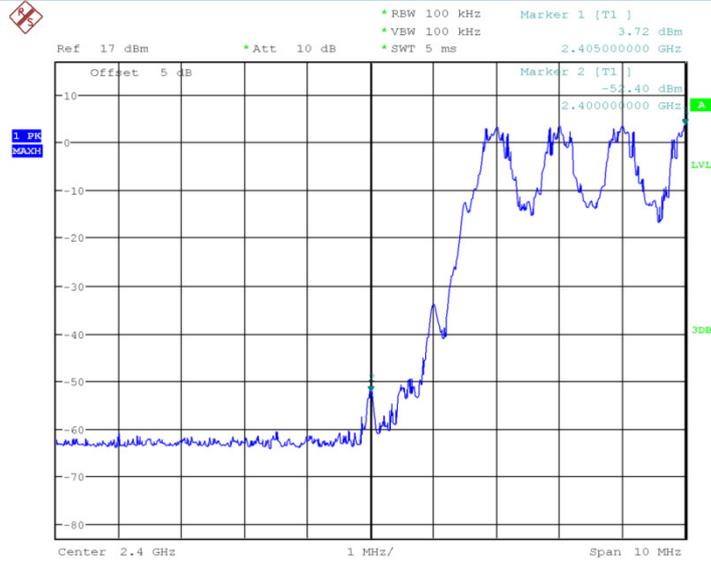
Conclusion: PASS

Test graphs an below



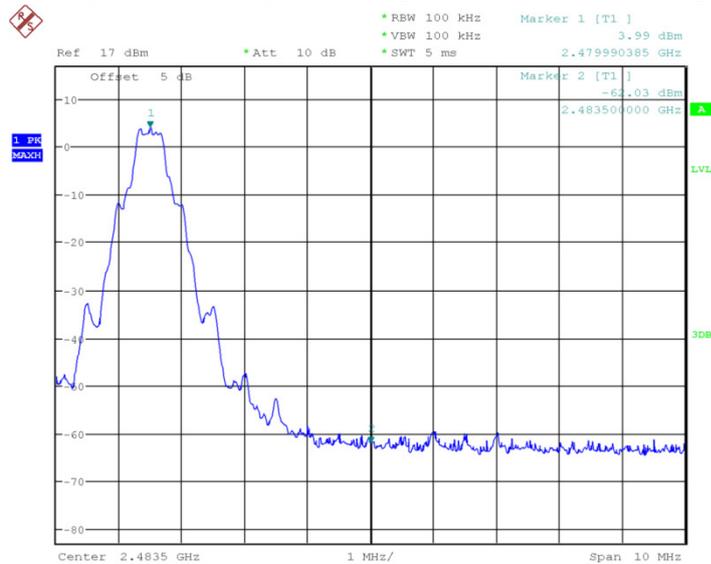
Date: 2.FEB.2018 15:18:28

Fig.10 Frequency Band Edge: GFSK, Ch0, Hopping OFF



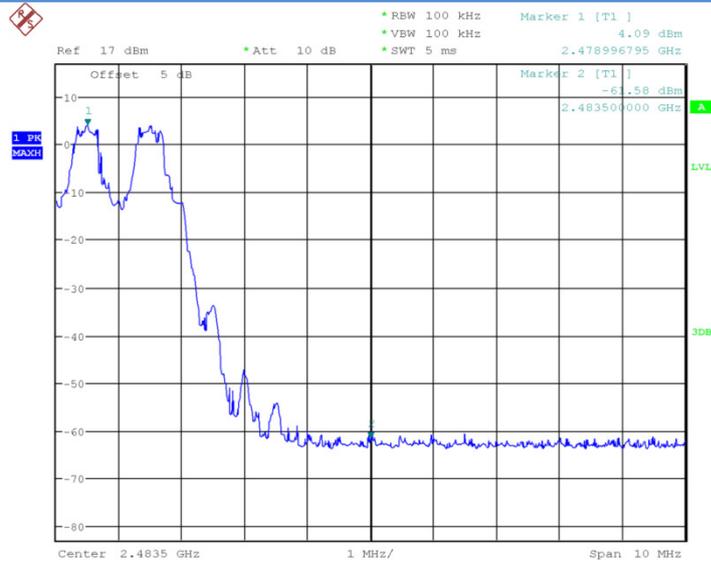
Date: 2.FEB.2018 15:20:35

Fig.11 Frequency Band Edge: GFSK, Ch0, Hopping ON



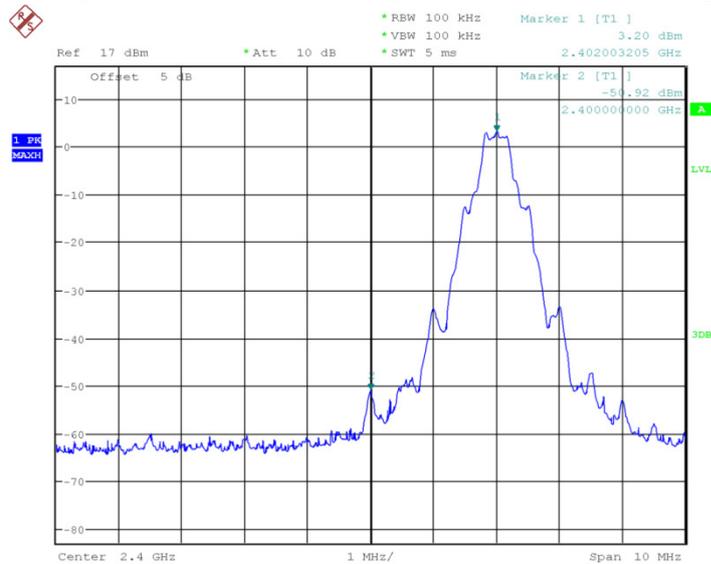
Date: 2.FEB.2018 15:26:44

Fig.12 Frequency Band Edge: GFSK, Ch78, Hopping OFF



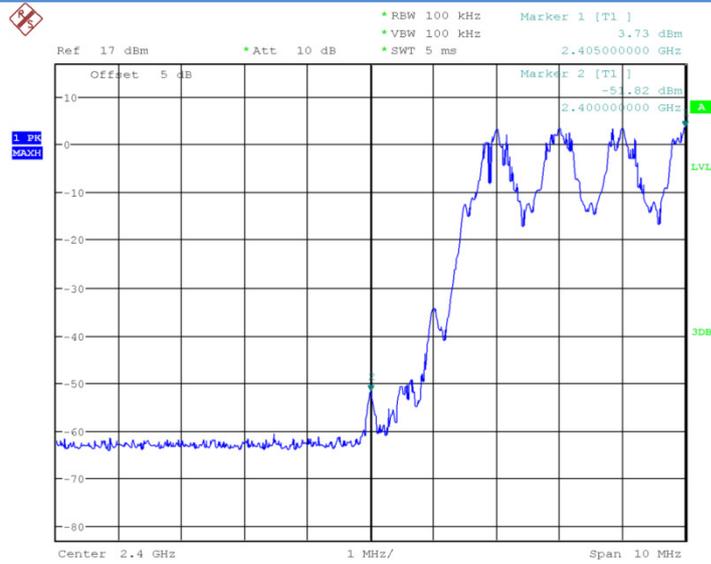
Date: 2.FEB.2018 15:28:51

Fig.13 Frequency Band Edge: GFSK, Ch78, Hopping ON



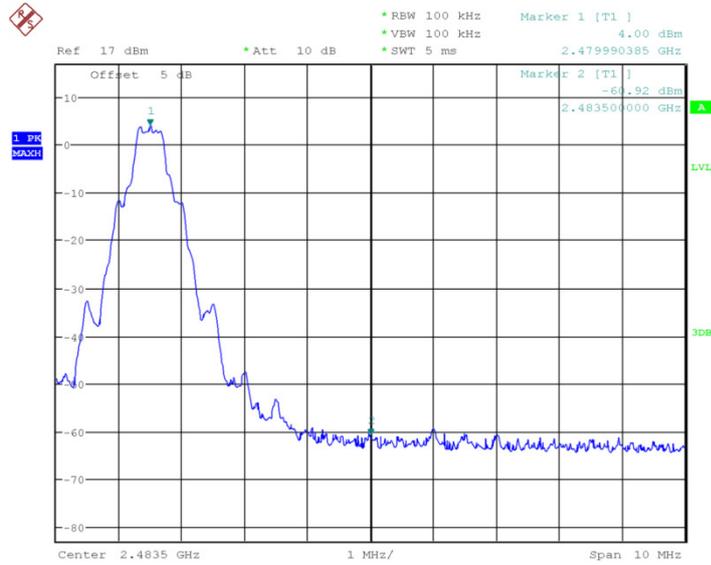
Date: 2.FEB.2018 15:21:12

Fig.14 Frequency Band Edge: $\pi/4$ DQPSK, Ch0, Hopping OFF



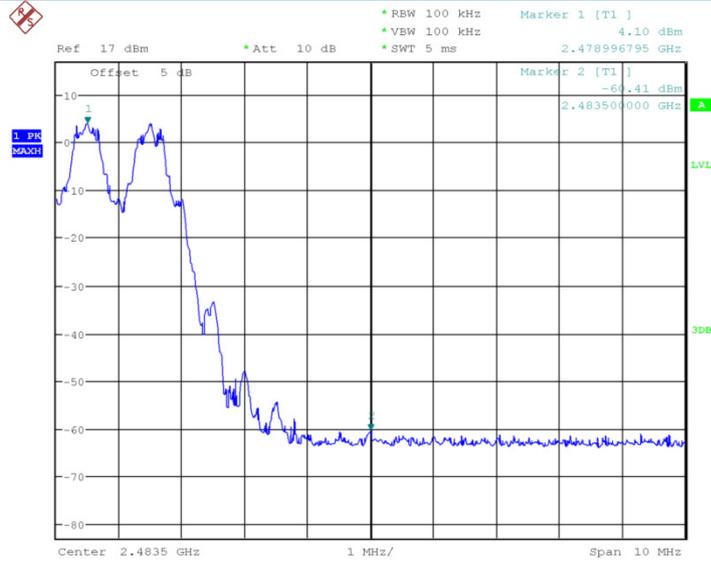
Date: 2.FEB.2018 15:23:19

Fig.15 Frequency Band Edge: $\pi/4$ DQPSK, Ch0, Hopping ON



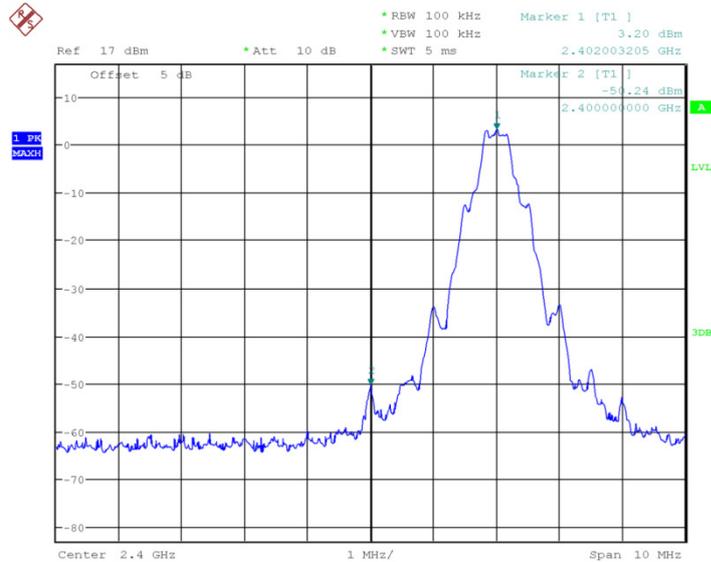
Date: 2.FEB.2018 15:29:29

Fig.16 Frequency Band Edge: $\pi/4$ DQPSK, Ch78, Hopping OFF



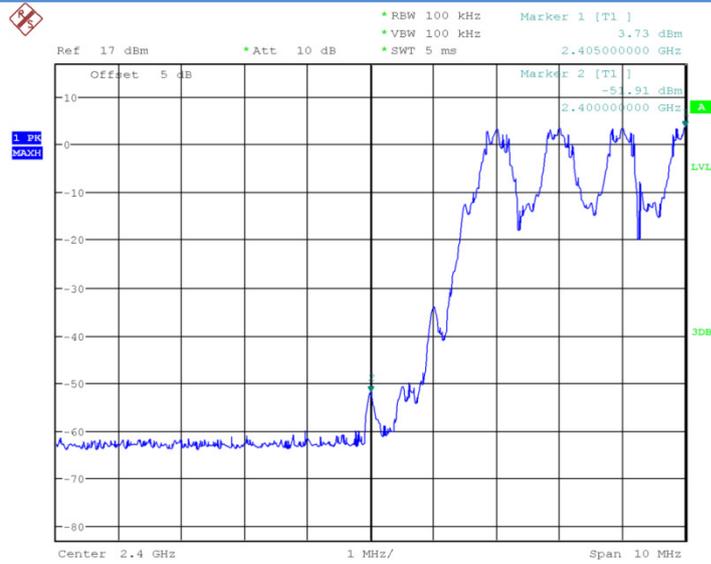
Date: 2.FEB.2018 15:31:36

Fig.17 Frequency Band Edge: $\pi/4$ DQPSK, Ch78, Hopping ON



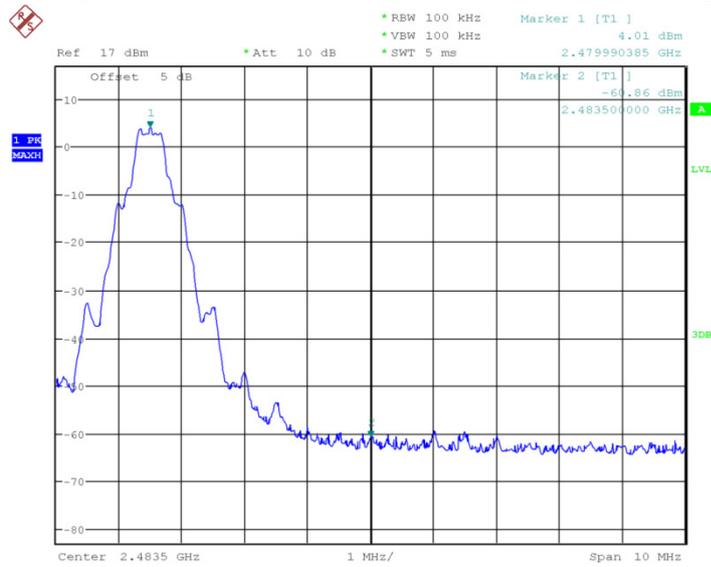
Date: 2.FEB.2018 15:23:58

Fig.18 Frequency Band Edge: 8DPSK, Ch0, Hopping OFF



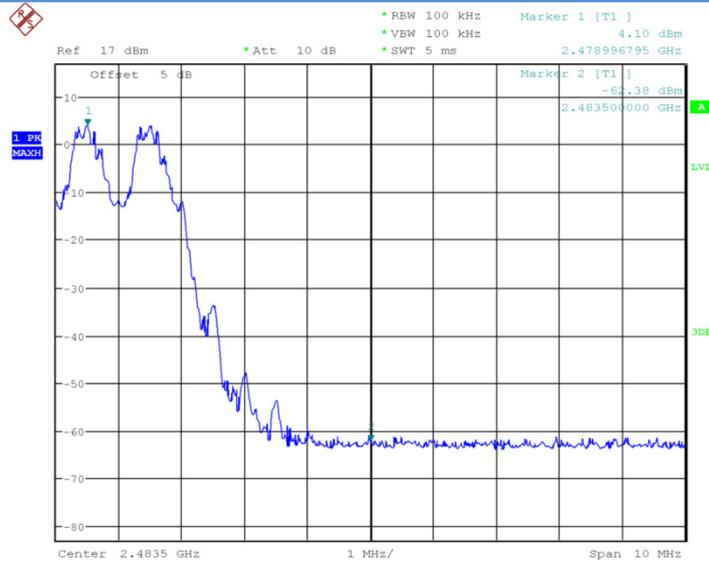
Date: 2.FEB.2018 15:26:05

Fig.19 Frequency Band Edge: 8DPSK, Ch0, Hopping ON



Date: 2.FEB.2018 15:32:14

Fig.20 Frequency Band Edge: 8DPSK, Ch78, Hopping OFF



Date: 2.FEB.2018 15:34:22

Fig.21 Frequency Band Edge: 8DPSK, Ch78, Hopping ON

6.3. Conducted Emission

6.3.1 Measurement Limit:

Standard	Limit
FCC 47 CFR Part15.247 (d)	20dB below peak output power in 100KHz bandwidth

6.3.2 Test procedures

The measurement is according to ANSI C63.10 clause 7.8.8.

1. Connect the EUT to spectrum analyzer.
2. Set RBW=100KHz, VBW=300KHz.
3. Detector =peak, sweep time=auto couple, trace mode=max hold.

6.3.3 Measurement Results:

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	Center Freq.	Fig.22	P
	30MHz~26GHz	Fig.23	P
Ch39 2441MHz	Center Freq.	Fig.24	P
	30MHz~26GHz	Fig.25	P

Ch78 2480MHz	Center Freq.	Fig.26	P
	30MHz~26GHz	Fig.27	P

For $\pi/4$ DQPSK

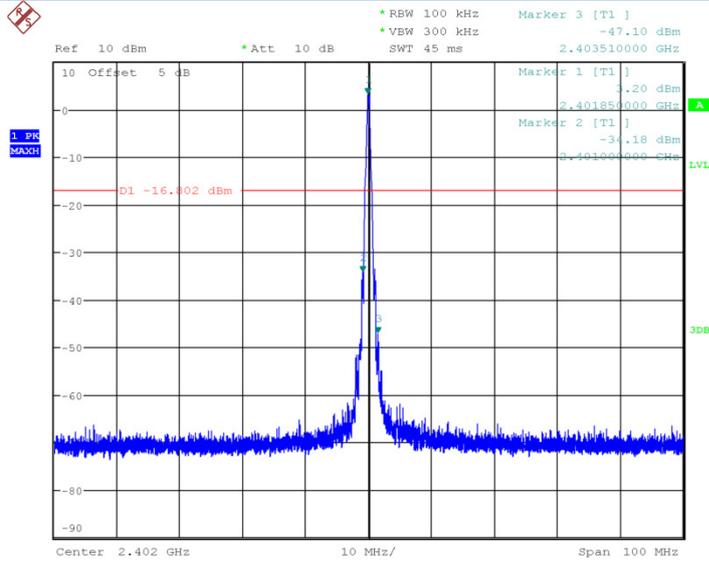
Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	Center Freq.	Fig.28	P
	30MHz~26GHz	Fig.29	P
Ch39 2441MHz	Center Freq.	Fig.30	P
	30MHz~26GHz	Fig.31	P
Ch78 2480MHz	Center Freq.	Fig.32	P
	30MHz~26GHz	Fig.33	P

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	Center Freq.	Fig.34	P
	30MHz~26GHz	Fig.35	P
Ch39 2441MHz	Center Freq.	Fig.36	P
	30MHz~26GHz	Fig.37	P
Ch78 2480MHz	Center Freq.	Fig.38	P
	30MHz~26GHz	Fig.39	P

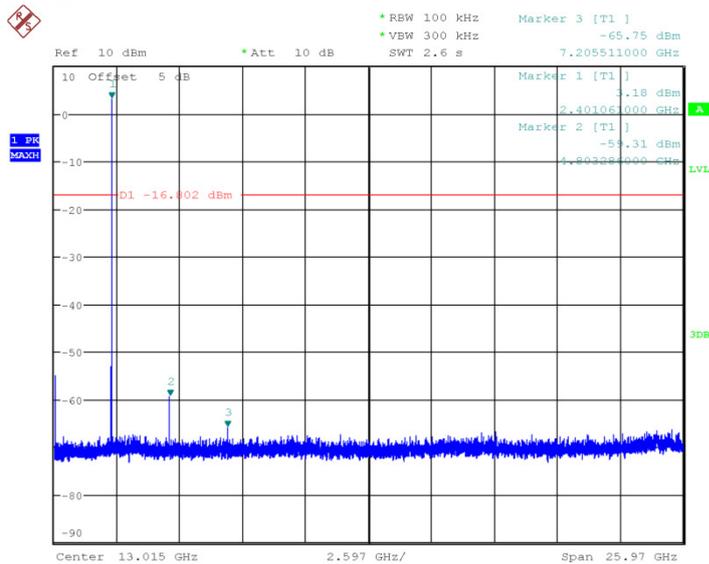
Conclusion: PASS

Test graphs as below



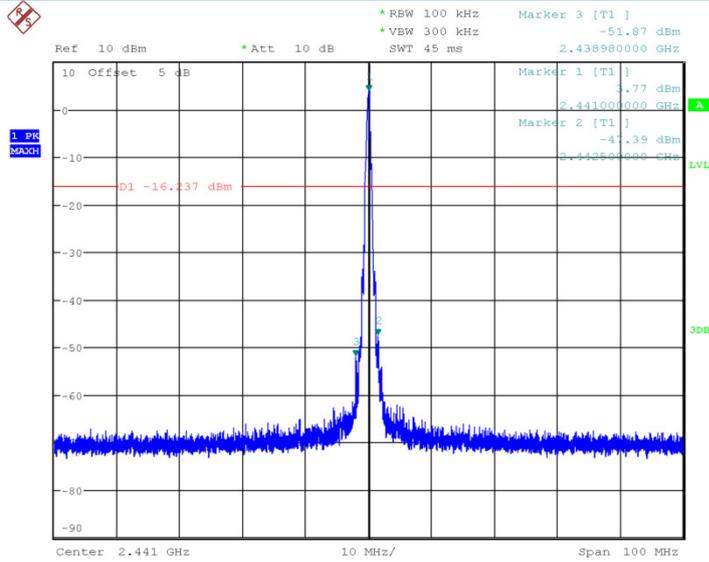
Date: 2.FEB.2018 15:35:21

Fig.22 Conducted spurious emission: GFSK, Ch0, 2402MHz



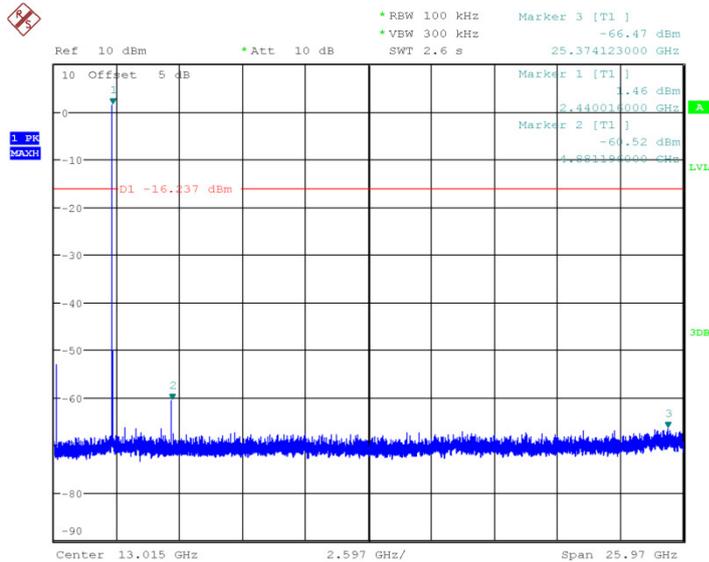
Date: 2.FEB.2018 15:35:46

Fig.23 Conducted spurious emission: GFSK, Ch0, 30MHz~26GHz



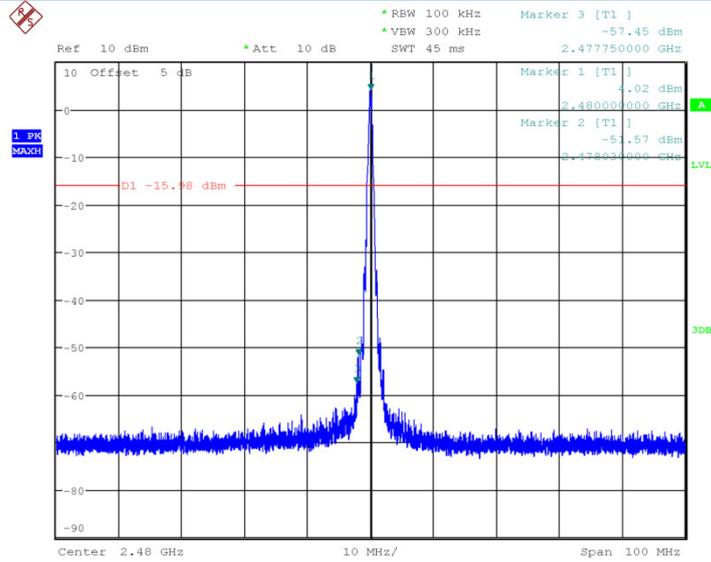
Date: 2.FEB.2018 15:36:13

Fig.24 Conducted spurious emission: GFSK, Ch39, 2441MHz



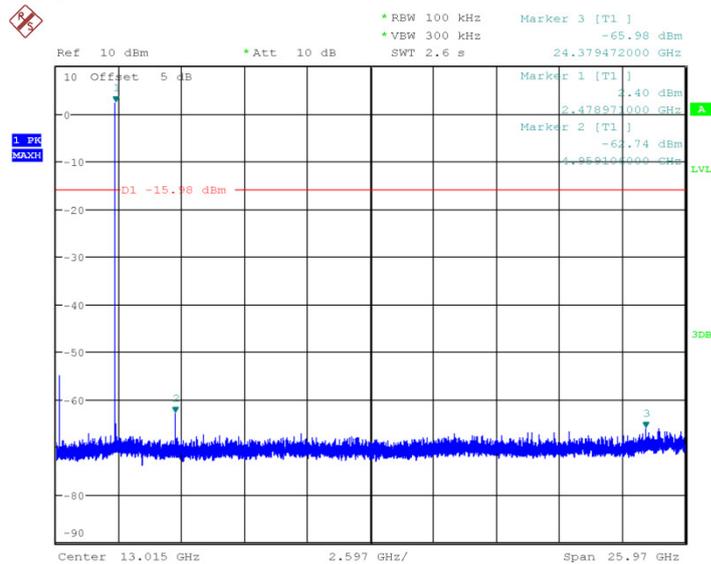
Date: 2.FEB.2018 15:36:38

Fig.25 Conducted spurious emission: GFSK, Ch39, 30MHz~26GHz



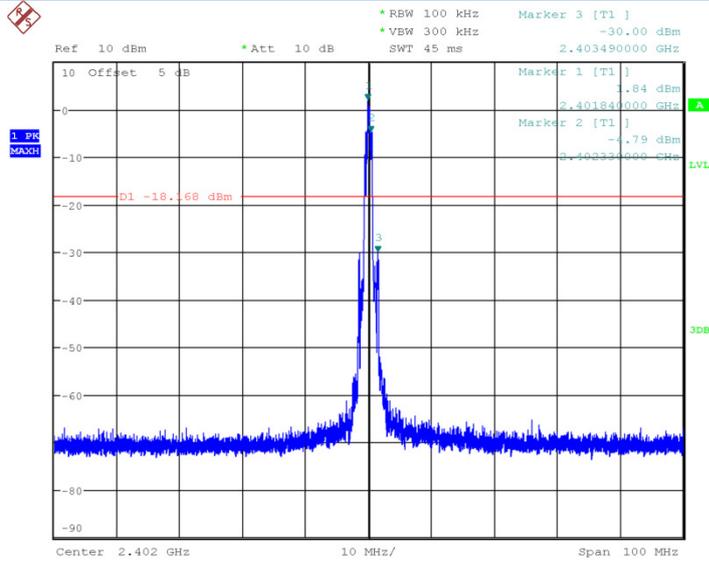
Date: 2.FEB.2018 15:37:05

Fig.26 Conducted spurious emission: GFSK, Ch78, 2480MHz



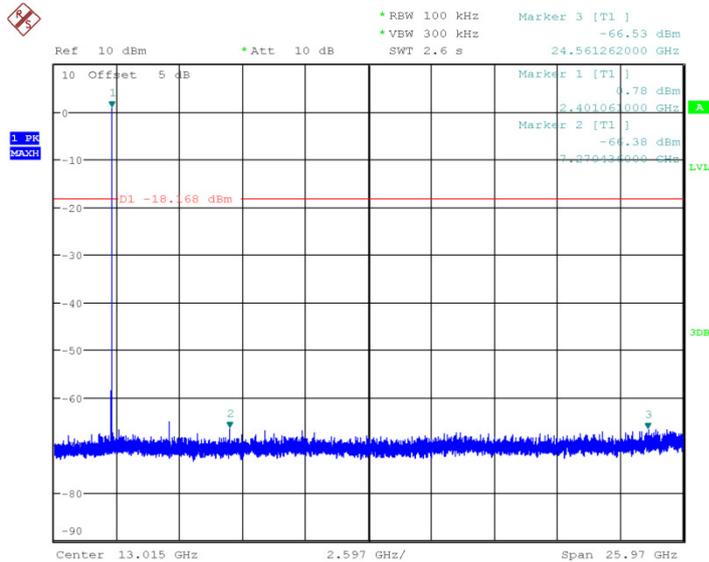
Date: 2.FEB.2018 15:37:31

Fig.27 Conducted spurious emission: GFSK, Ch78, 30MHz~26GHz



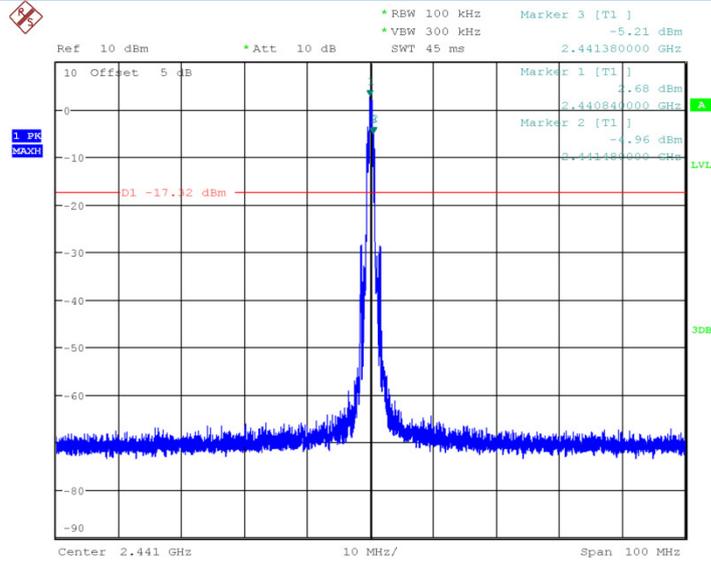
Date: 2.FEB.2018 15:37:59

Fig.28 Conducted spurious emission: $\pi/4$ DQPSK, Ch0, 2402MHz



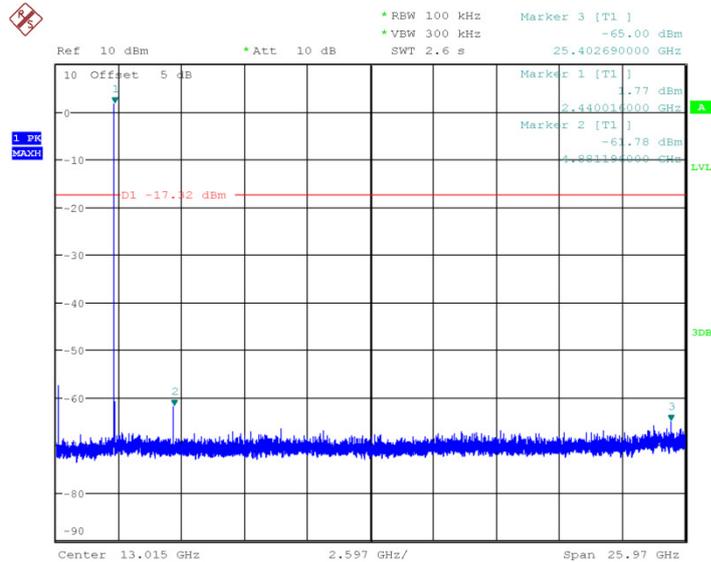
Date: 2.FEB.2018 15:38:24

Fig.29 Conducted spurious emission: $\pi/4$ DQPSK, Ch0, 30MHz~26GHz



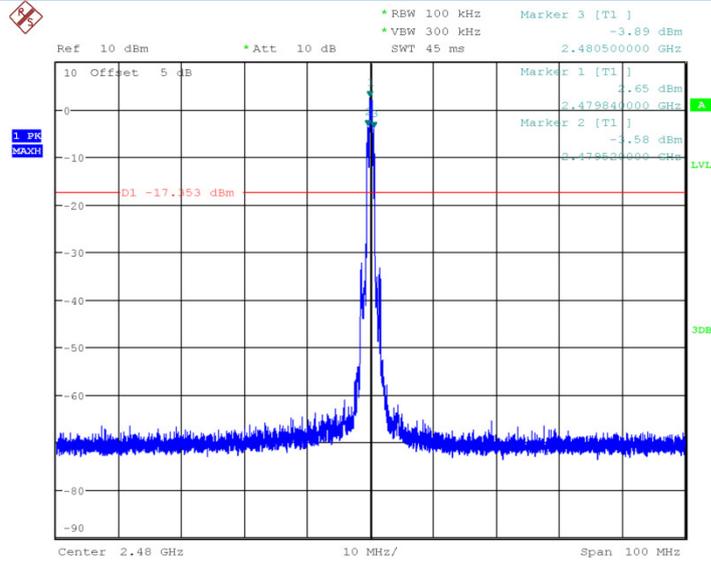
Date: 2.FEB.2018 15:38:52

Fig.30 Conducted spurious emission: $\pi/4$ DQPSK, Ch39, 2441MHz



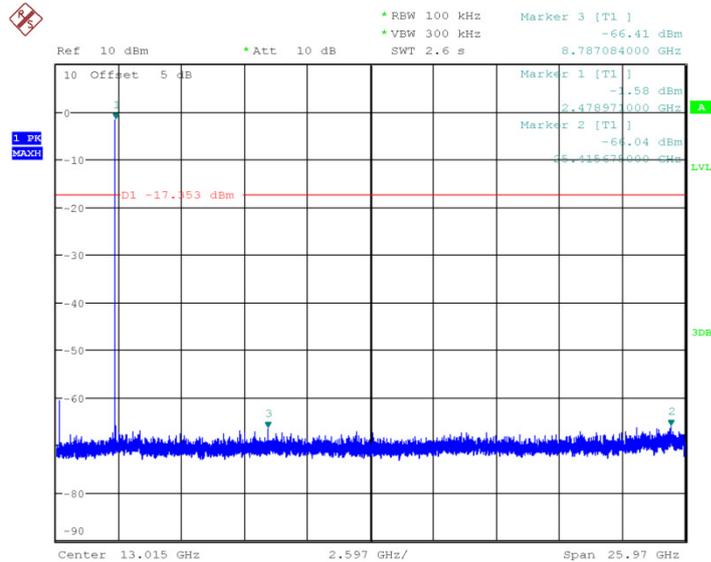
Date: 2.FEB.2018 15:39:17

Fig.31 Conducted spurious emission: $\pi/4$ DQPSK, Ch39, 30MHz~26GHz



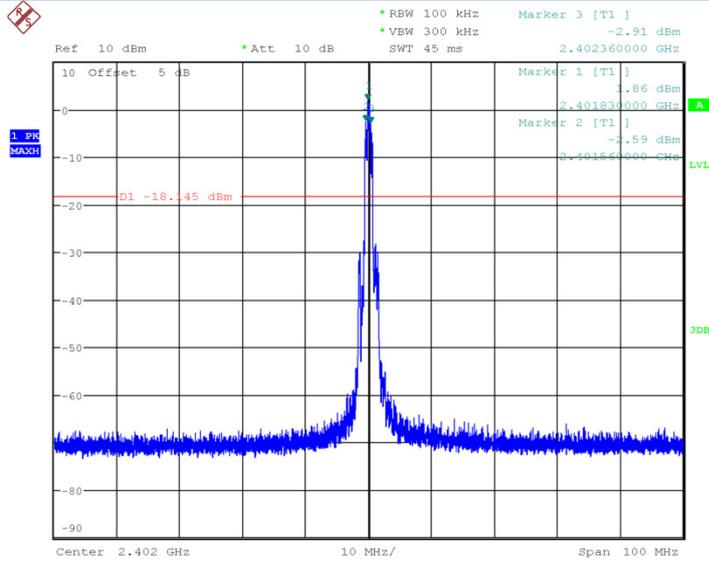
Date: 2.FEB.2018 15:39:44

Fig.32 Conducted spurious emission: $\pi/4$ DQPSK, Ch78, 2480MHz



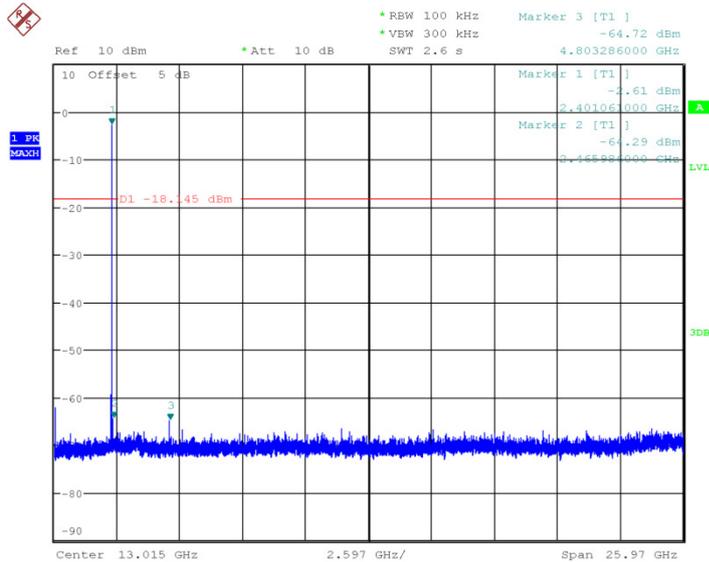
Date: 2.FEB.2018 15:40:10

Fig.33 Conducted spurious emission: $\pi/4$ DQPSK, Ch78, 30MHz~26GHz



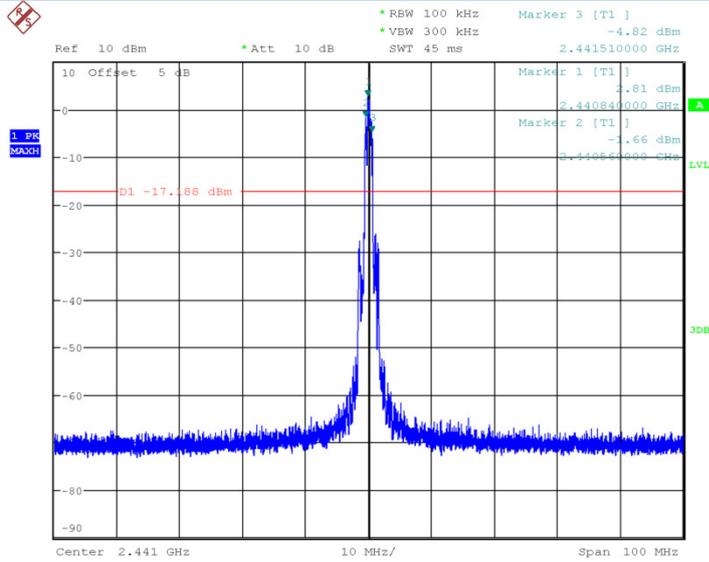
Date: 2.FEB.2018 15:40:37

Fig.34 Conducted spurious emission: 8DPSK, Ch0, 2402MHz



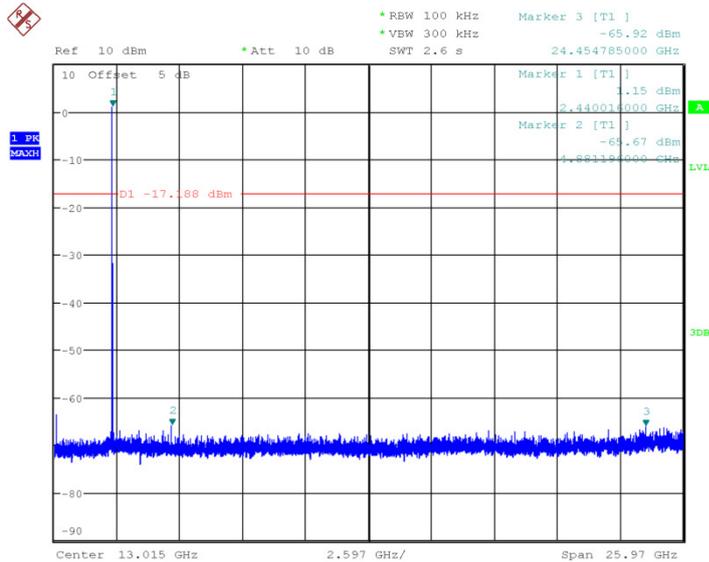
Date: 2.FEB.2018 15:41:03

Fig.35 Conducted spurious emission: 8DPSK, Ch0, 30MHz~26GHz



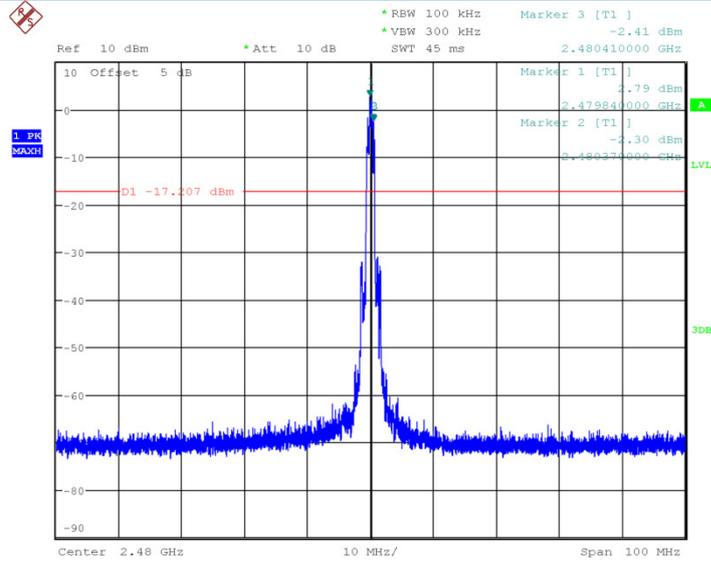
Date: 2.FEB.2018 15:41:30

Fig.36 Conducted spurious emission: 8DPSK, Ch39, 2441MHz



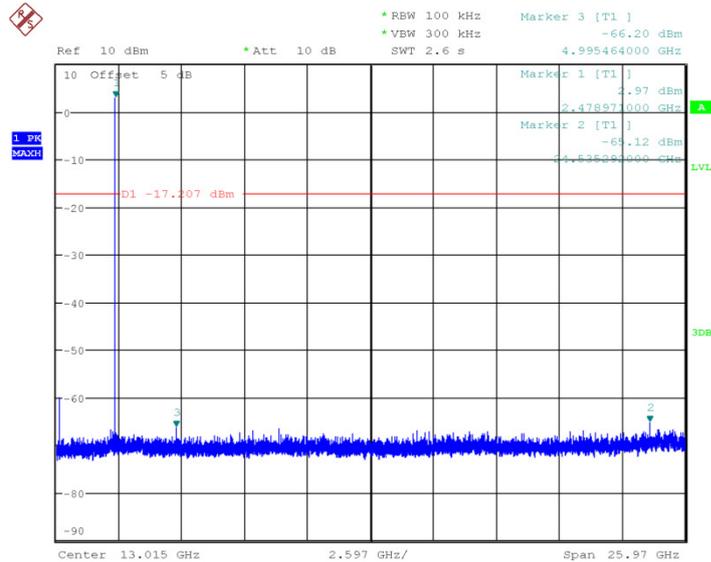
Date: 2.FEB.2018 15:41:55

Fig.37 Conducted spurious emission: 8DPSK, Ch39, 30MHz~26GHz



Date: 2.FEB.2018 15:42:22

Fig.38 Conducted spurious emission: 8DPSK, Ch78, 2480MHz



Date: 2.FEB.2018 15:42:47

Fig.39 Conducted spurious emission: 8DPSK, Ch78, 30MHz~26GHz

6.4. Radiated Emission

6.4.1 Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

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)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBuV/m)
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

6.4.2 Test Method

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time (s)
30~1000	100KHz/300KHz	5
1000~4000	1MHz/1MHz	15
4000~18000	1MHz/1MHz	40
18000~26500	1MHz/1MHz	20

6.4.3 Measurement Results:

A “reference path loss” is established and A_{Rpi} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

$A_{Rpi} = \text{Cable loss} + \text{Antenna Gain} - \text{Preamplifier gain}$

Result = $P_{Mea} + A_{Rpi}$

Main supply

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	30MH~1GHz	Fig.40	P
	1GHz~3GHz	Fig.41	P
	3GHz~18GHz	Fig.42	P
Power	2.38GHz~2.4GHz	Fig.43	P
Power	2.45GHz~2.5GHz	Fig.44	P

For $\pi/4$ DQPSK

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	30MH~1GHz	Fig.45	P
	1GHz~3GHz	Fig.46	P
	3GHz~18GHz	Fig.47	P
Power	2.38GHz~2.4GHz	Fig.48	P
Power	2.45GHz~2.5GHz	Fig.49	P

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	30MH~1GHz	Fig.50	P
	1GHz~3GHz	Fig.51	P
	3GHz~18GHz	Fig.52	P
Power	2.38GHz~2.4GHz	Fig.53	P
Power	2.45GHz~2.5GHz	Fig.54	P

GFSK Ch78 30MHz-1GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
34.866804	16.86	-21.9	38.76	V
35.65582	15.76	-21.8	37.56	V
119.471936	7.4	-25.3	32.7	V
314.074792	12.43	-21.2	33.63	V
495.29014	16.15	-16.8	32.95	H
688.163056	20.14	-12.8	32.94	H

GFSK Ch78 1GHz-3GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2302.6012	52.1	5.1	47	H
2360.326	53.15	5.9	47.25	V
2501.852307	54.77	7.3	47.47	H
2556.151538	54.78	7.2	47.58	H
2607.055	54.16	7.4	46.76	H
2667.1725	55.09	7.8	47.29	H

GFSK Ch78 1GHz-3GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2501.852307	42.06	7.3	34.76	H
2556.151538	41.93	7.2	34.73	H
2607.055	42.05	7.4	34.65	H
2667.1725	42.73	7.8	34.93	H

GFSK Ch78 3GHz-18GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
12902.3008	52.64	17	35.64	V
13303.4348	53.69	17.1	36.59	V

14302.3606	54.94	20.8	34.14	V
15425.51487	56.52	22.7	33.82	V
16005.39247	59.8	25.4	34.4	V
16794.6298	59.62	27.1	32.52	V

GFSK Ch78 3GHz-18GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14302.3606	42.85	20.8	22.05	V
15425.51487	44.03	22.7	21.33	V
16005.39247	47.48	25.4	22.08	V
16794.6298	47.42	27.1	20.32	V

 $\pi/4$ DQPSK Ch78 30MHz-1GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
33.631004	15.43	-22	37.43	V
35.014272	17.87	-21.9	39.77	V
51.427632	12.12	-20.2	32.32	V
493.13332	16.12	-16.9	33.02	H
631.404732	19.25	-13.7	32.95	H
724.283432	20.69	-12.3	32.99	H

 $\pi/4$ DQPSK Ch78 1GHz-3GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2313.1472	52.47	5.3	47.17	V
2361.5816	52.51	5.8	46.71	H
2507.695962	54.02	7.2	46.82	H
2568.683077	53.88	7.2	46.68	V
2616.417884	54.27	7.4	46.87	H
2662.44	54.16	7.8	46.36	V

$\pi/4$ DQPSK Ch78 1GHz-3GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2507.695962	41.75	7.2	34.55	H
2616.417884	42.18	7.4	34.78	H
2662.44	42.68	7.8	34.88	V

$\pi/4$ DQPSK Ch78 3GHz-18GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
13307.6648	53.95	17.1	36.85	H
14180.5198	54.01	18.9	35.11	H
14710.18747	56.63	21.1	35.53	V
15434.5014	56.81	22.7	34.11	H
15927.02613	59.03	24.5	34.53	H
16820.58013	60.15	27.2	32.95	V

$\pi/4$ DQPSK Ch78 3GHz-18GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14180.5198	41.81	18.9	22.91	H
14710.18747	43.44	21.1	22.34	V
15434.5014	44.05	22.7	21.35	H
15927.02613	46.08	24.5	21.58	H
16820.58013	47.75	27.2	20.55	V

8DPSK Ch78 30MHz-1GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
33.98962	15.17	-22	37.17	V
36.364484	14.89	-21.6	36.49	V
48.207824	12.43	-20	32.43	H
466.452108	15.53	-17.7	33.23	V



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554.972252	17.65	-15.4	33.05	V
847.281328	22.47	-10.5	32.97	V

8DPSK Ch78 1GHz-3GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2325.2936	52.21	5.5	46.71	H
2357.0484	53.29	6.2	47.09	V
2513.922116	53.83	7	46.83	V
2551.539423	55.19	7.2	47.99	H
2580.7525	54.17	7.3	46.87	H
2617.985193	54.91	7.4	47.51	H

8DPSK Ch78 1GHz-3GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2551.539423	42.08	7.2	34.88	H
2580.7525	42.09	7.3	34.79	H
2617.985193	42.16	7.4	34.76	H

8DPSK Ch78 3GHz-18GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
13286.4464	54.74	17.1	37.64	V
13734.2132	53.14	17.9	35.24	H
14335.00773	54.67	20.2	34.47	V
15396.52113	55.5	22.7	32.8	H
16094.28613	59.26	24.9	34.36	H
16793.23347	59.32	27.1	32.22	H

8DPSK Ch78 3GHz-18GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
13286.4464	41.01	17.1	23.91	V

14335.00773	41.93	20.2	21.73	V
15396.52113	43.88	22.7	21.18	H
16094.28613	46.96	24.9	22.06	H
16793.23347	47.36	27.1	20.26	H

**Secondary supply
For GFSK**

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	30MH~1GHz	Fig.55	P
	1GHz~3GHz	Fig.56	P
	3GHz~18GHz	Fig.57	P
Power	2.38GHz~2.4GHz	Fig.58	P
Power	2.45GHz~2.5GHz	Fig.59	P

GFSK Ch78 30MHz-1GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
33.766156	12.9	-22	34.9	V
34.847776	14.25	-21.9	36.15	V
180.093536	7.77	-25.2	32.97	V
366.01694	13.32	-20.1	33.42	V
571.04096	17.92	-15.1	33.02	V
852.8647	22.47	-10.4	32.87	V

GFSK Ch78 1GHz-3GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2298.4116	51.73	5	46.73	H
2352.8832	52.98	6.4	46.58	H
2526.953846	54.09	6.8	47.29	H
2574.002307	53.74	7.2	46.54	H