Full

TEST REPORT

No. 2014BT0007

For

Client : ZTE Corporation

Production : WCDMA/GSM（GPRS）Dual-Mode Digital Mobile Phone

Model Name : ZTE Kis Q

FCC ID: SRQ-ZTEKISQ

Hardware Version: TMAK

Software Version: IUS-MX-LTB25S-P172D02V1.0.0B01

Issued date: 2014-02-11

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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Tel: (+86)-021-63843300, E-Mail: welcome@ecit.org.cn.

CONTENTS

1. General Information

1.1 Notes

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

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

The following deviation from, additions to, or exclusions from the test specifications have been made. See section 3.

1.2 Statements

The product ZTE Kis Q, supporting BT, manufactured by ZTE Corporation is a variant product. According to the variant description shown in Annex C, the alterations do not affect the BT performance, so no test case to be retested. All test results please refer to ECIT-2013-0141-RF-BT which is the test report for the initial product of ZTE V795.The below result are coming from the initial product of ZTE V795.

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.

1.3 Testing Laboratory information

1.3.1. Testing Location

Company Name:	ECIT Shanghai, East China Institute of Telecommunications
Address:	7F, G Area,No. 668, Beijing East Road, Huangpu District, Shanghai, P. R. China
Postal Code:	200001
Telephone:	00862163843300
Fax:	00862163843301
FCC Registration NO.:	489729

1.3.2. Testing Environment

Normal Temperature:	15-35℃
Extreme Temperature:	N/A
Relative Humidity:	20-75%

1.3.3. Project data

Project Leader:	Wang yaqiong
Testing Start Date:	2013-08-09
Testing End Date:	2013-09-11

1.3.4. Signature

Wang Daming
(Prepared this test report)

Yu Naiping
(Reviewed this test report)

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

1.4 Details of applicant or manufacturer

1.4.1. Applicant Information

Company Name:	ZTE Corporation
Address /Post:	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District,Shenzhen, Guangdong, 518057, P.R.China
Country:	China

1.4.2. Manufacturer Information

Company Name:	ZTE Corporation
Address /Post:	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District,Shenzhen, Guangdong, 518057, P.R.China
Country:	China

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

2.1. About EUT

EUT Description	WCDMA/GSM （GPRS） Dual-Mode Digital Mobile Phone
Model name	SRQ-ZTEKISQ
Bluetooth Frequency	2402MHz-2480MHz
Bluetooth Channel	Channel0-Channel78
Bluetooth Modulation	GMSK;π/4 DQPSK;8DPSK
Extreme Temperature	N/A
Nominal Voltage	3.7V
Extreme High Voltage	4.2V
Extreme Low Voltage	3.5V

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

2.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
N01	863921025000699	TMAK	IUS-MX-LTB25S-P17 2D02V1.0.0B01	2014-01-10

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

2.3. Internal Identification of AE used during the test

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

3. Reference Documents

3.1. Reference Documents for testing

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

Reference	Title
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.
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9KHz to 40GHz
DA 00-705	Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems

4. 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(a)	/	P
Peak Power Spectral Density	15.247(d)	/	P
Occupied 6dB Bandwidth	15.247(d)	/	P
Band Edges Compliance	15.247(b)	/	P
Transmitter Spurious Emission-Conducted	15.247	/	P
Transmitter Spurious Emission-Radiated	15.247,15.209,	/	P

Please refer to part 5 for detail.

The measurements are according to Public notice DA 00-705 and ANSI C63.4.

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℃
Voltage	Vnom	3.7V
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, π/4 DQPSK and 8DPSK were set in DH1 for GFSK, 2-DH1 for π/4 DQPSK, 3-DH1 for 8DPSK.

c.The DC and low frequency voltages' measurement uncertainty is ±2%.

5. Test result

5.1. Peak Output Power-Conducted

Measurement Limit

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

The measurement is according to Public notice DA 00-705 and ANSI C63.4.

Test Condition:

Hopping Mode	RBW	VBW	Span	Sweeptime
Hopping OFF	3MHz	10MHz	5MHz	2.5ms

Measurement Results:

For GFSK

Channel	Ch0 2402 MHz	Ch39 2441 MHz	CH78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	5.54	5.75	5.62	P
	Fig.1	Fig.2	Fig.3	

For π/4 DQPSK

Channel	Ch0 2402 MHz	Ch39 2441 MHz	CH78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	4.92	5.06	4.82	P
	Fig.4	Fig.5	Fig.6	

For 8DPSK

Channel	Ch0 2402 MHz	Ch39 2441 MHz	CH78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	4.98	5.14	5.01	P
	Fig.7	Fig.8	Fig.9	

Conclusion: PASS

Test graphs an below

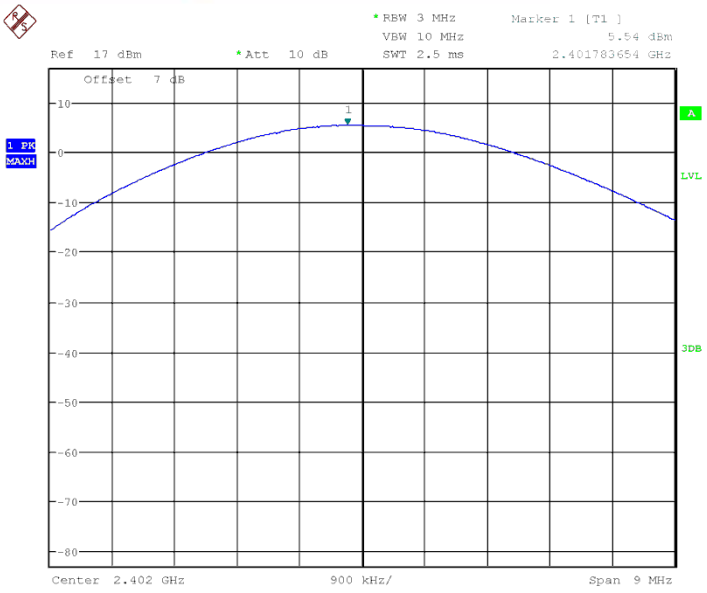


Fig.1 Peak Conducted Output Power CH0, DH1

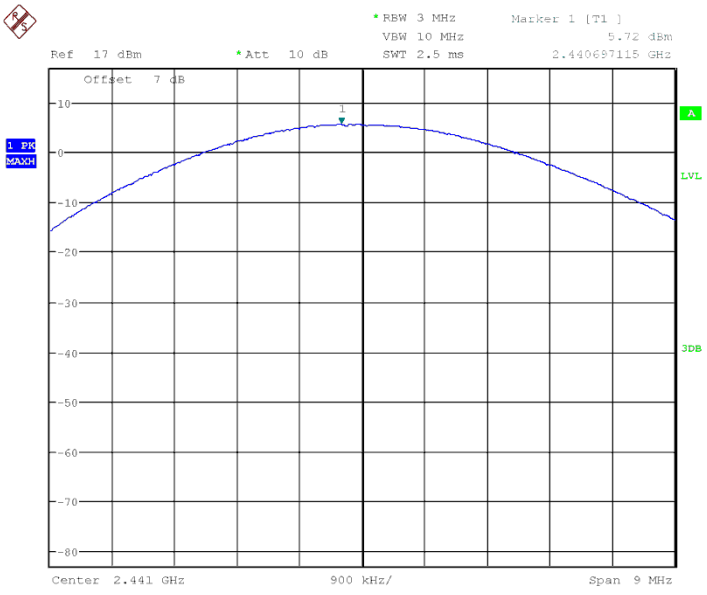


Fig.2 Peak Conducted Output Power CH39, DH1

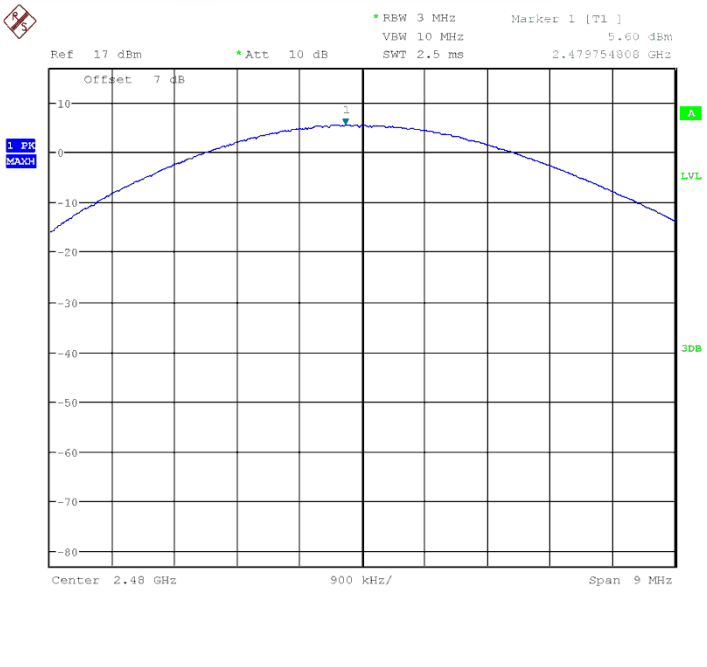


Fig.3 Peak Conducted Output Power CH78, DH1

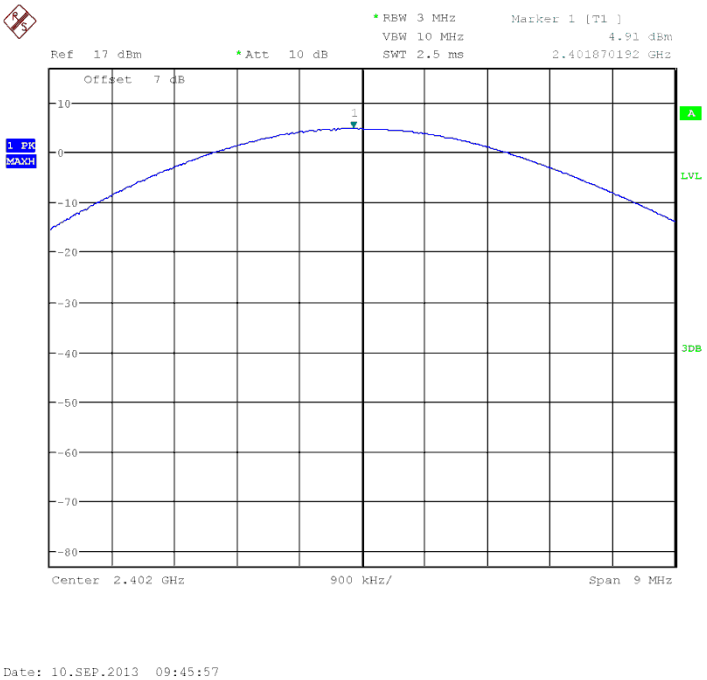


Fig.4 Peak Conducted Output Power CH0, 2DH1

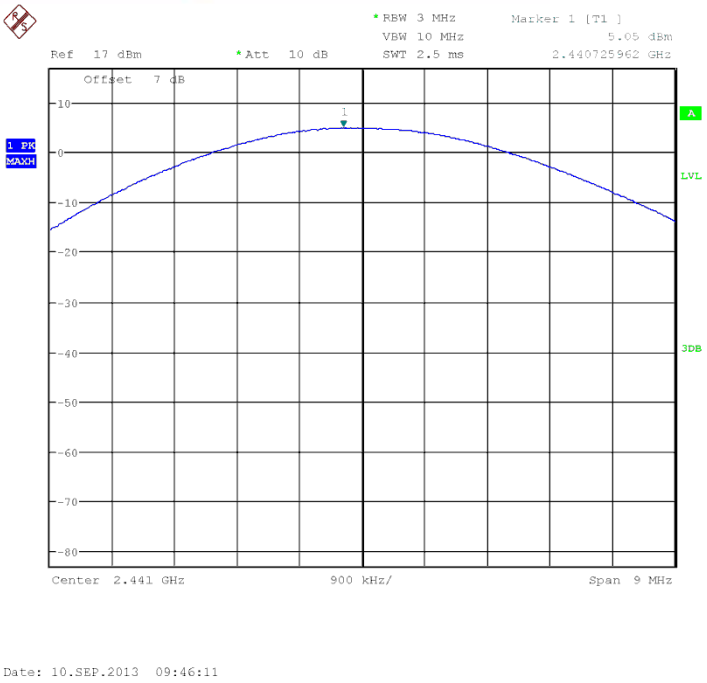


Fig.5 Peak Conducted Output Power CH39, 2DH1

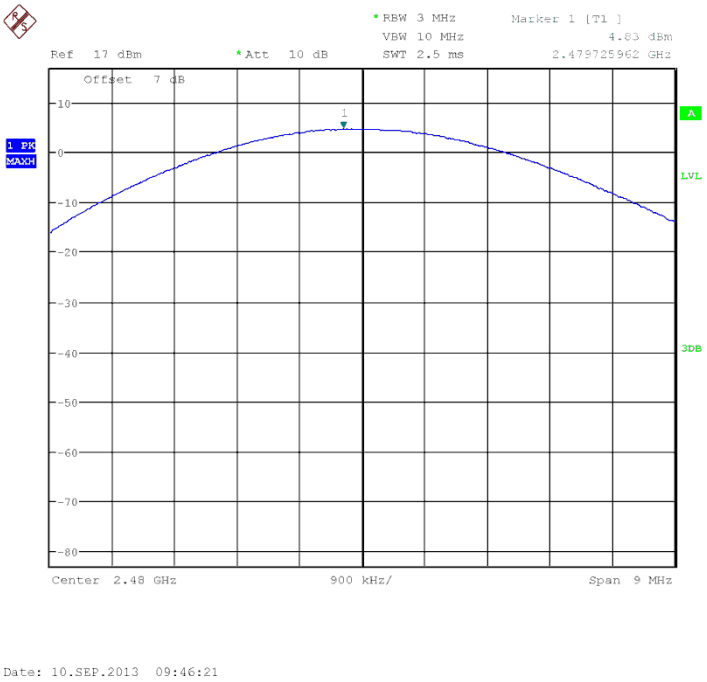


Fig.6 Peak Conducted Output Power CH78, 2DH1

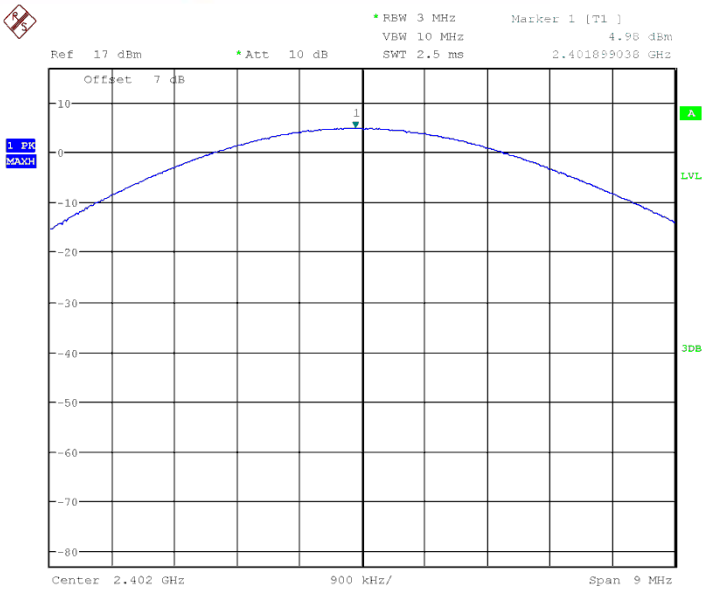


Fig.7 Peak Conducted Output Power CH0, 3DH1

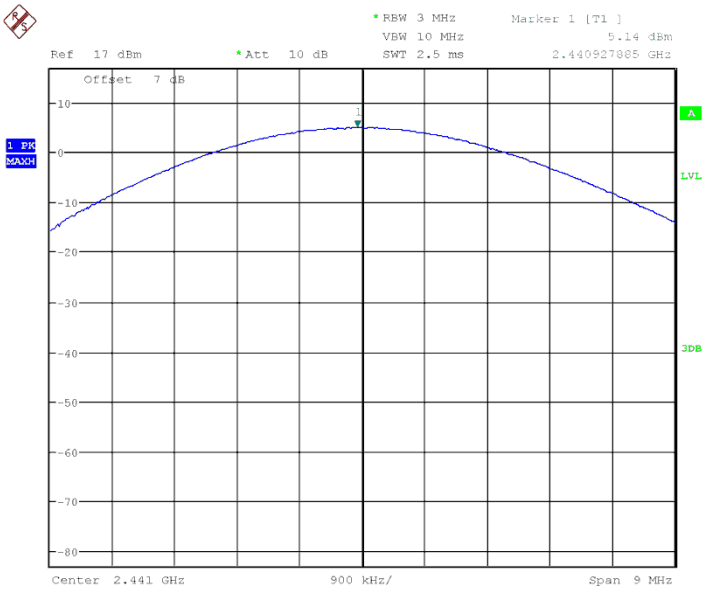


Fig.8 Peak Conducted Output Power CH39, 3DH1

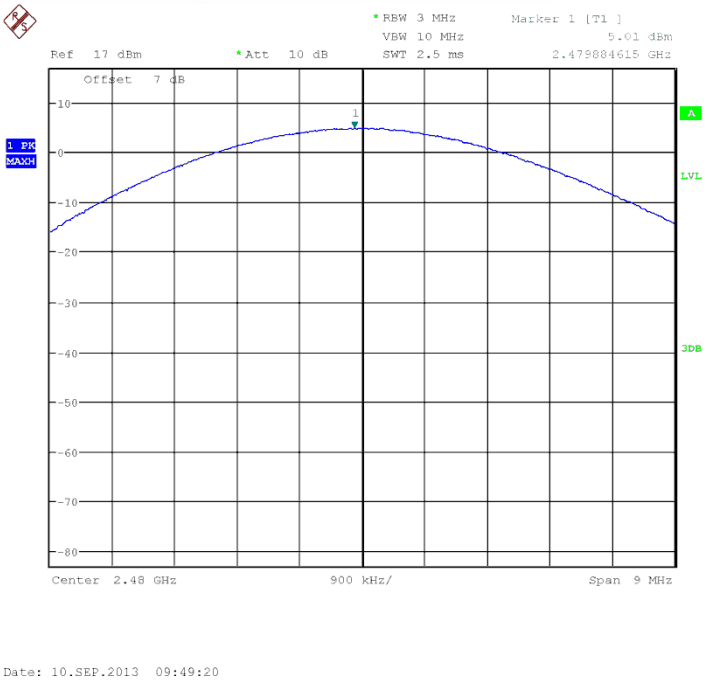


Fig.9 Peak Conducted Output Power CH78, 3DH1

5.2. Frequency Band Edges-Conducted

Measurement result:

For GFSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.10	-53.92	P
	Hopping ON	Fig.11	-53.57	P
78	Hopping OFF	Fig.12	-61.32	P
	Hopping ON	Fig.13	-61.12	P

For π/4 DQPSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.14	-57.31	P
	Hopping ON	Fig.15	-57.34	P
78	Hopping OFF	Fig.16	-59.84	P
	Hopping ON	Fig.17	-58.65	P

For 8DPSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.18	-53.93	P
	Hopping ON	Fig.19	-53.94	P
78	Hopping OFF	Fig.20	-58.21	P
	Hopping ON	Fig.21	-58.28	P

Conclusion: PASS

Test graphs an below

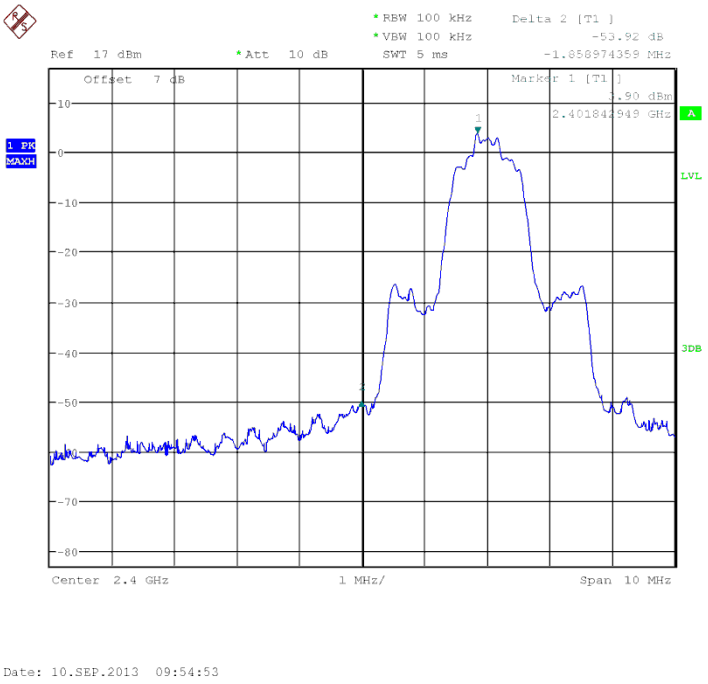


Fig.10 Frequency Band Edge: GFSK, Ch0, Hopping OFF

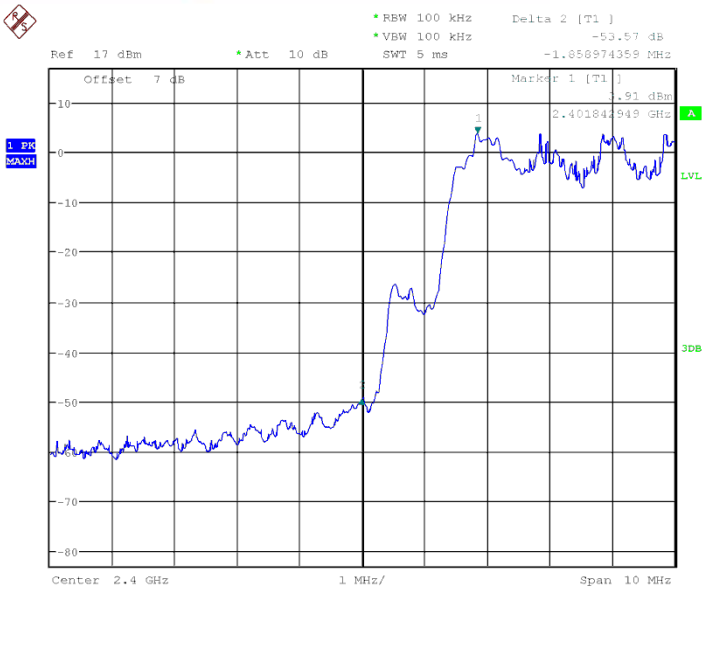


Fig.11 Frequency Band Edge: GFSK, Ch0, Hopping ON

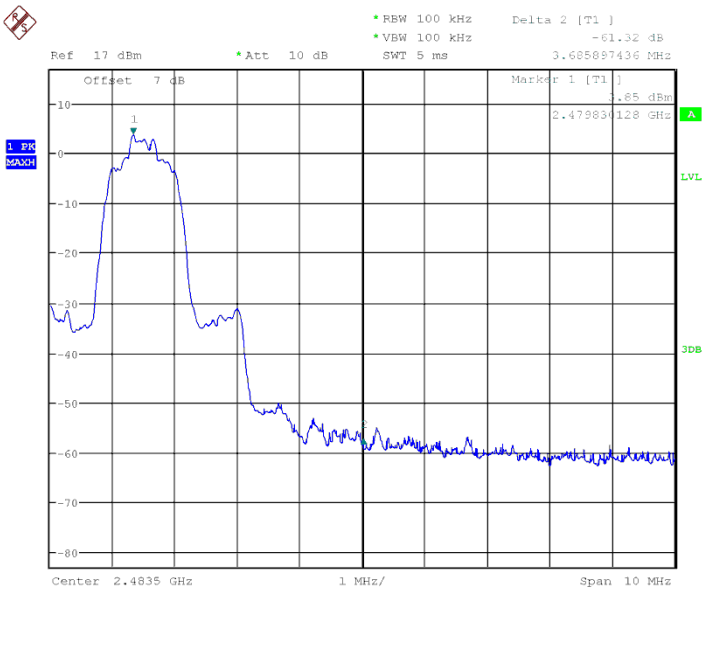


Fig.12 Frequency Band Edge: GFSK, Ch78, Hopping OFF

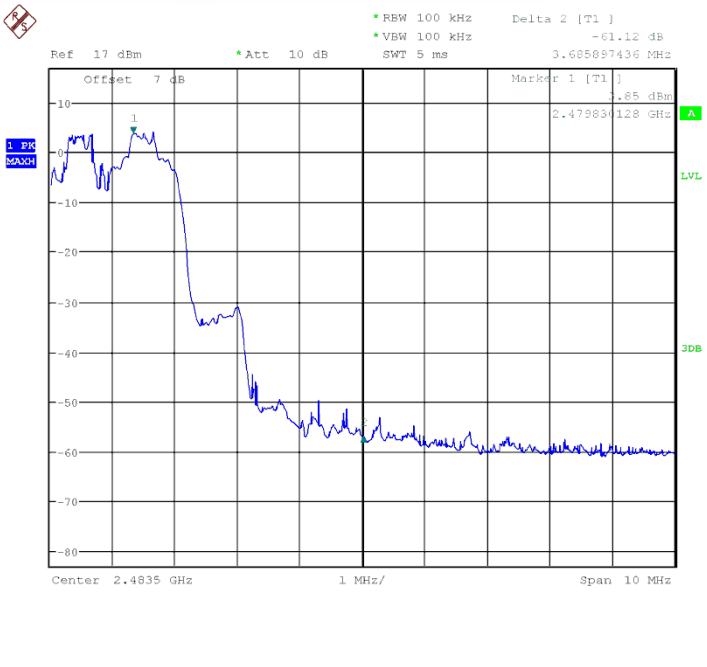


Fig.13 Frequency Band Edge: GFSK, Ch78, Hopping ON

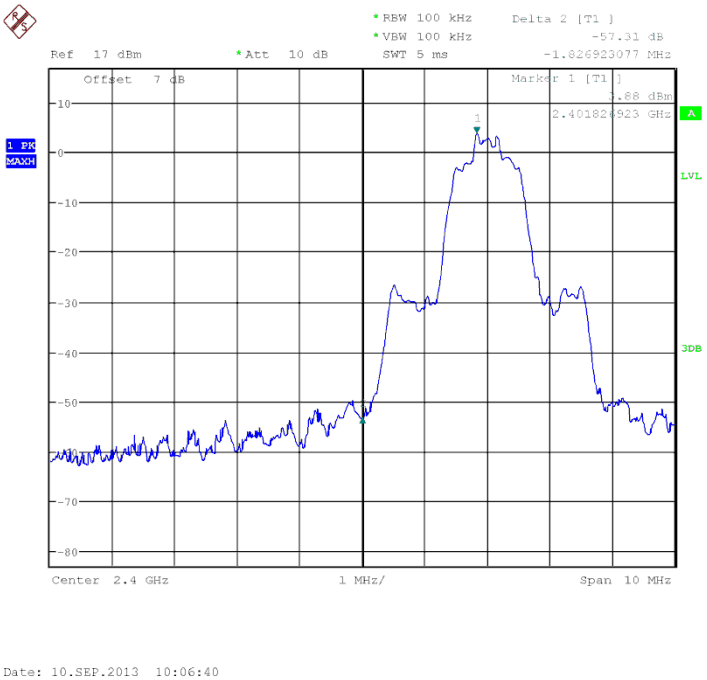


Fig.14 Frequency Band Edge: π/4 DQPSK, Ch0, Hopping OFF

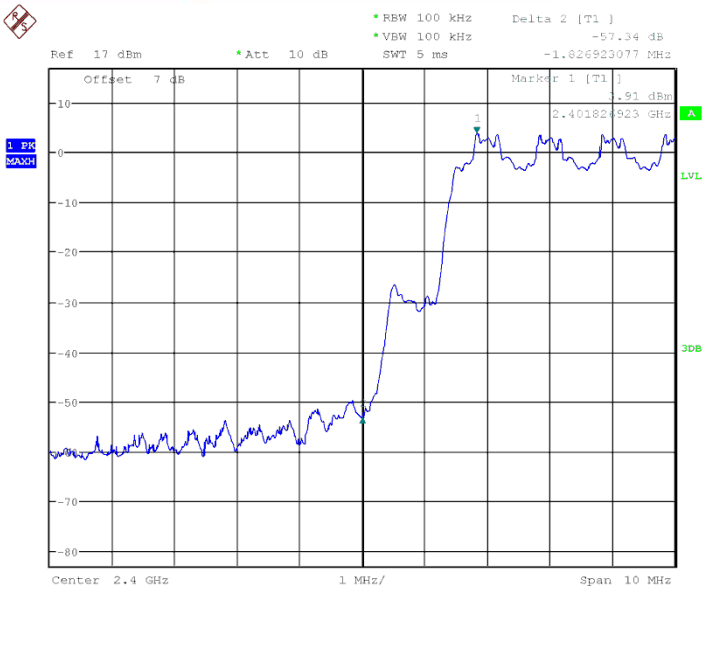


Fig.15 Frequency Band Edge: π/4 DQPSK, Ch0, Hopping ON

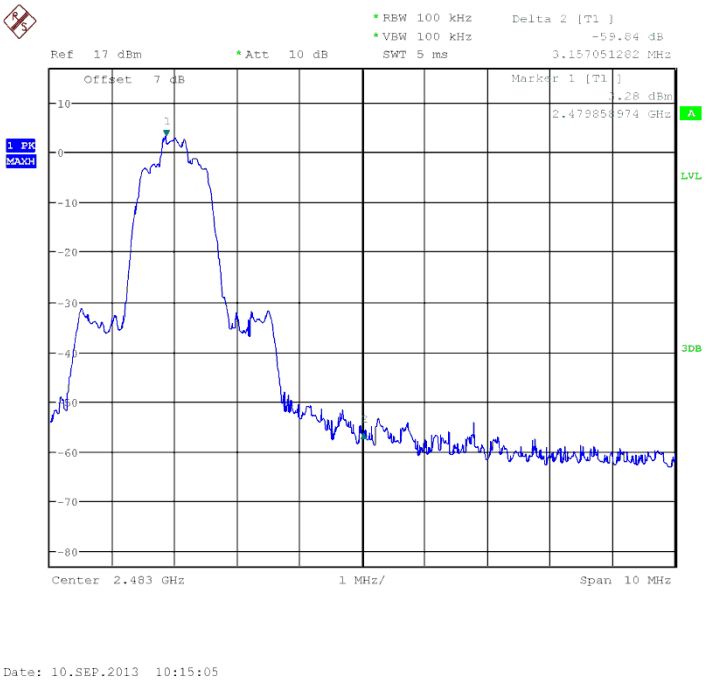


Fig.16 Frequency Band Edge: π/4 DQPSK, Ch78, Hopping OFF

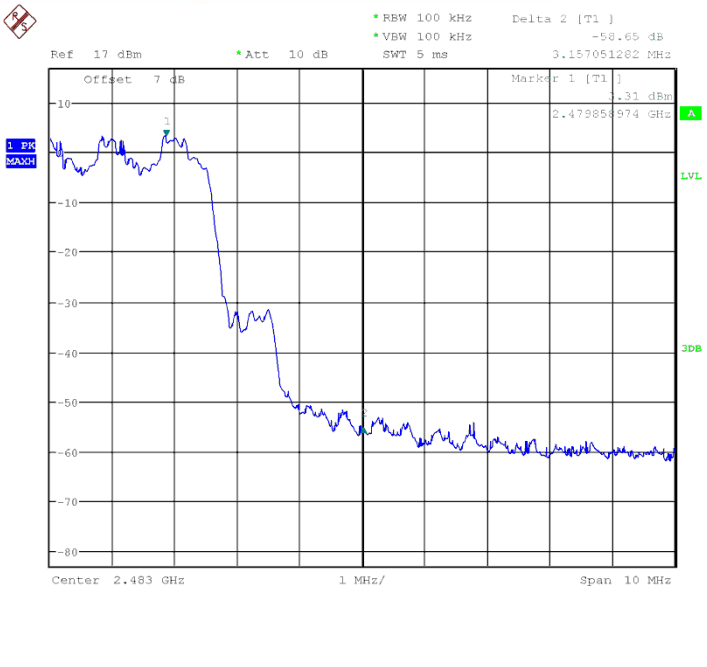


Fig.17 Frequency Band Edge: π/4 DQPSK, Ch78, Hopping ON

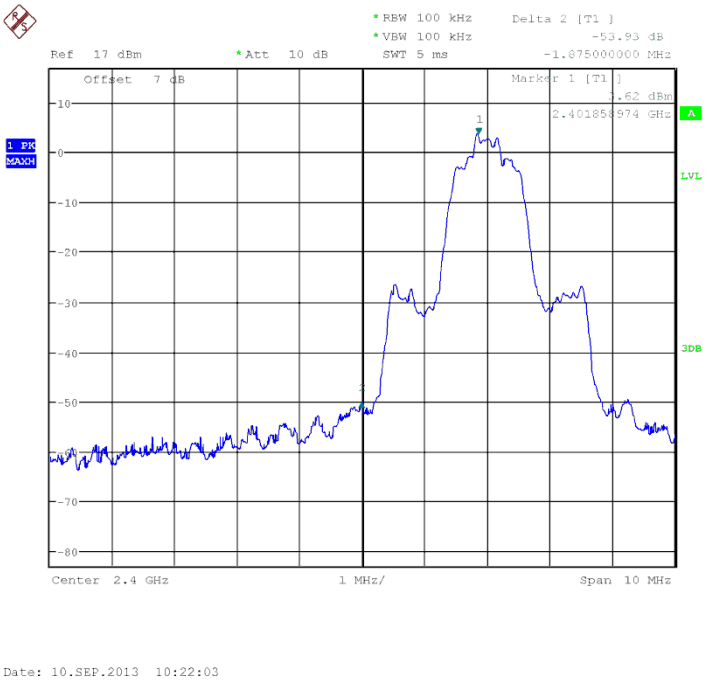


Fig.18 Frequency Band Edge: 8DPSK, Ch0, Hopping OFF

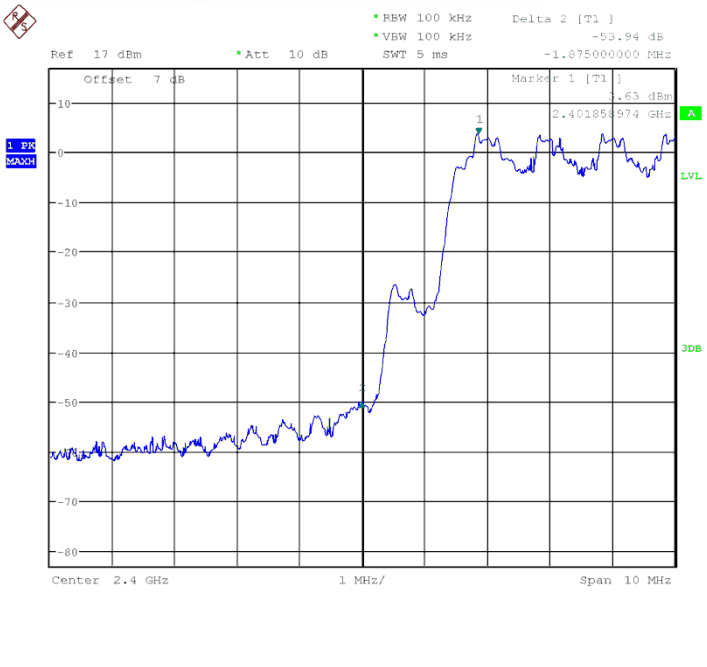


Fig.19 Frequency Band Edge: 8DPSK, Ch0, Hopping ON

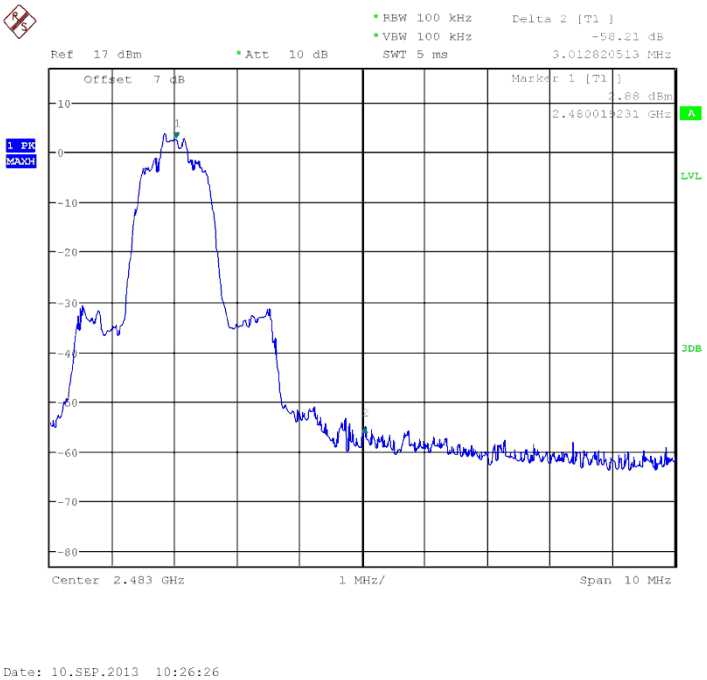


Fig.20 Frequency Band Edge: 8DPSK, Ch78, Hopping OFF

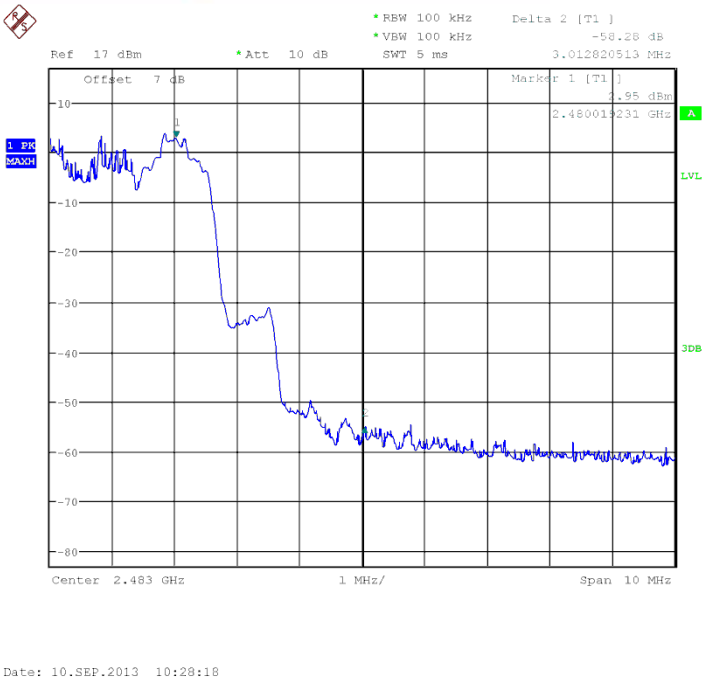


Fig.21 Frequency Band Edge: 8DPSK, Ch78, Hopping ON

5.3. Conducted Emission

Measurement Limit:

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

The measurement is according to Public notice DA 00-705 and ANSI C63.4

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 π/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

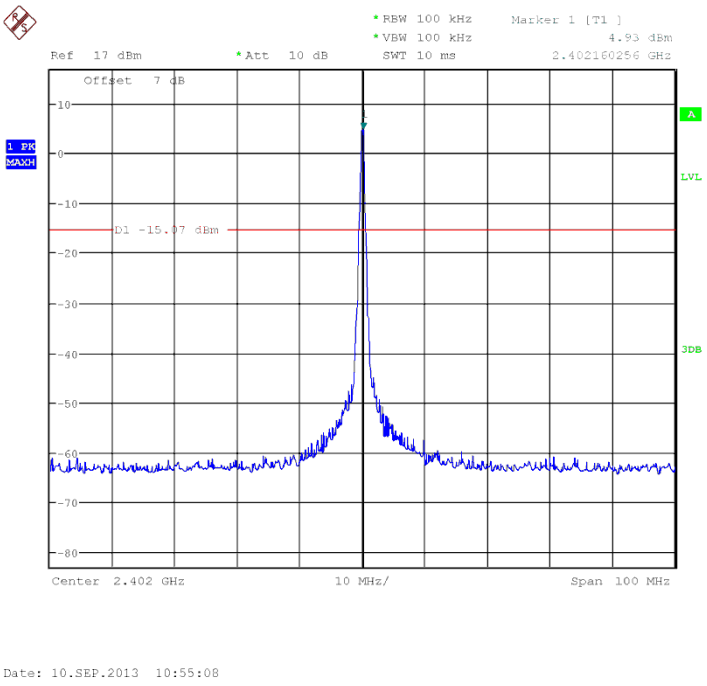


Fig.22 Conducted spurious emission: GFSK, Ch0, 2402MHz

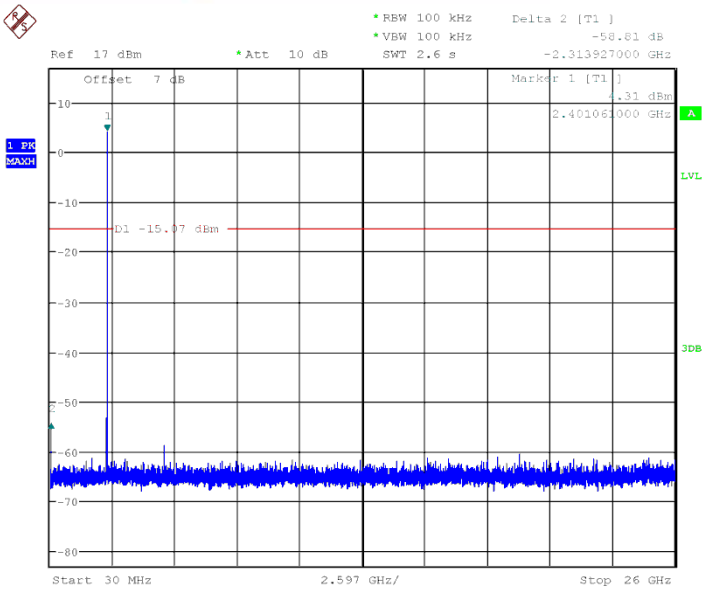


Fig.23 Conducted spurious emission: GFSK, Ch0, 30MHz~26GHz

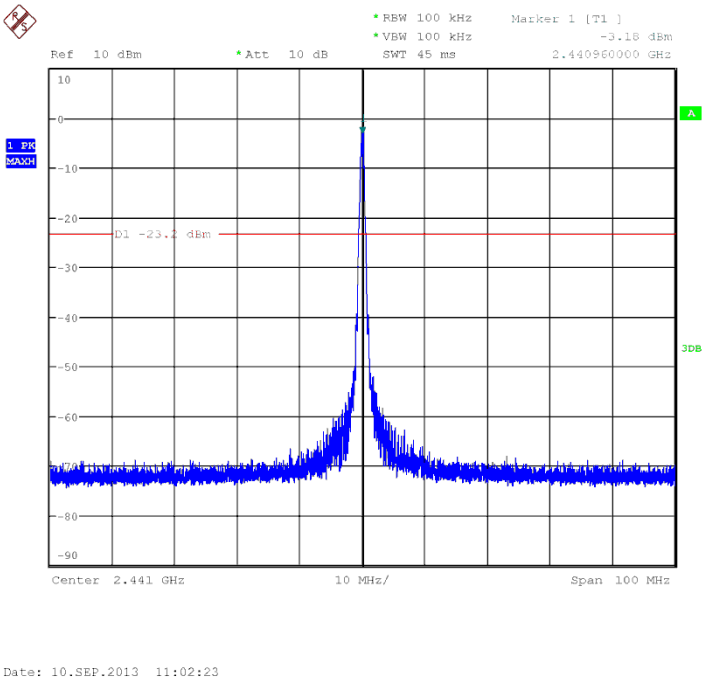


Fig.24 Conducted spurious emission: GFSK, Ch39, 2441MHz

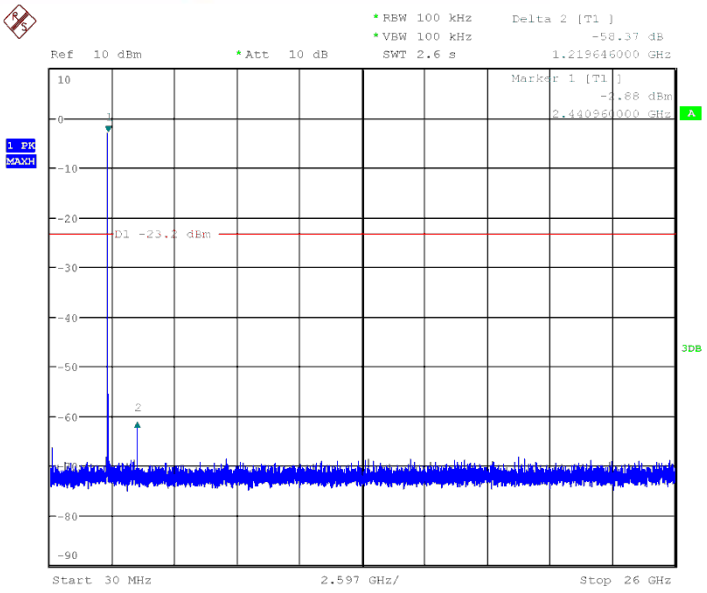


Fig.25 Conducted spurious emission: GFSK, Ch39, 30MHz~26GHz

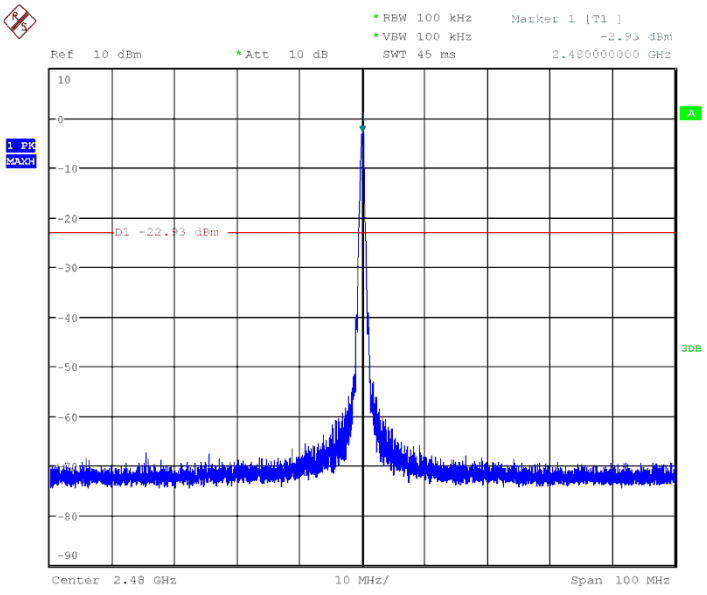


Fig.26 Conducted spurious emission: GFSK, Ch78, 2480MHz

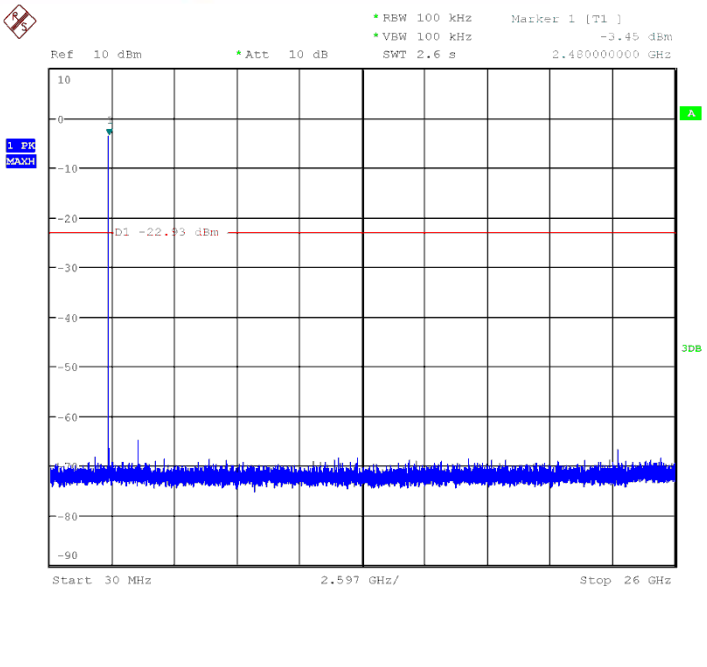


Fig.27 Conducted spurious emission: GFSK, Ch78, 30MHz~26GHz

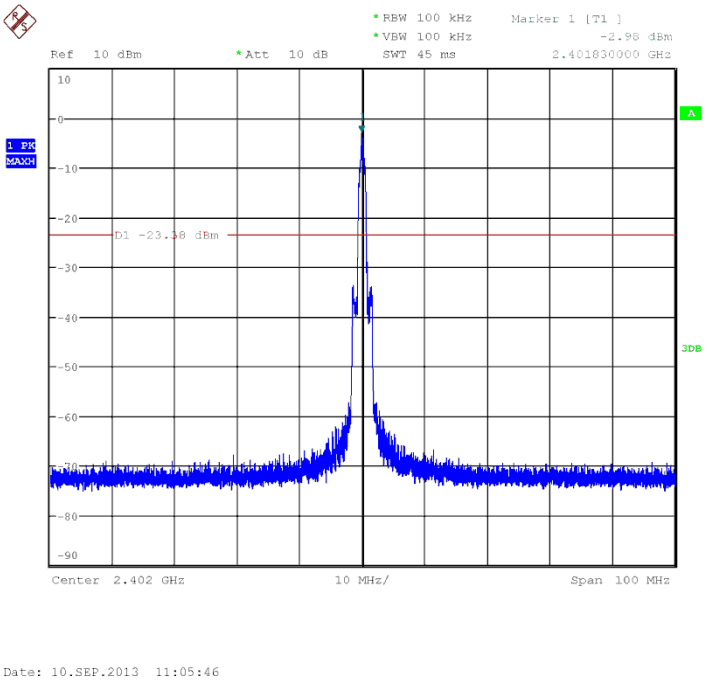


Fig.28 Conducted spurious emission: π/4 DQPSK, Ch0, 2402MHz

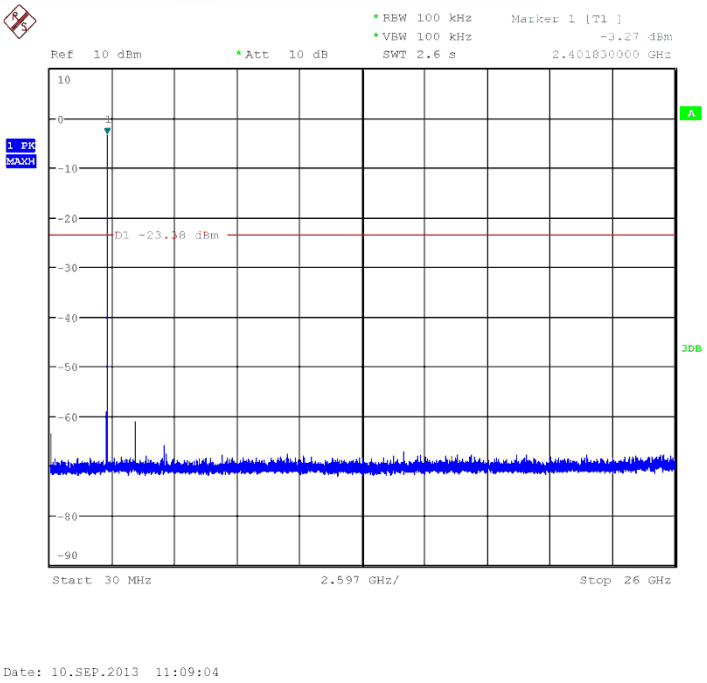


Fig.29 Conducted spurious emission: π/4 DQPSK, Ch0, 30MHz~26GHz

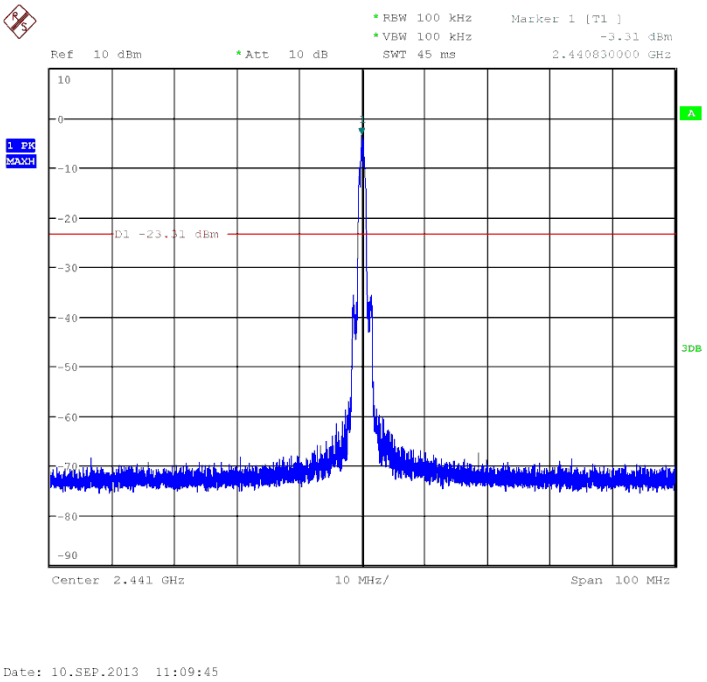


Fig.30 Conducted spurious emission: π/4 DQPSK, Ch39, 2441MHz

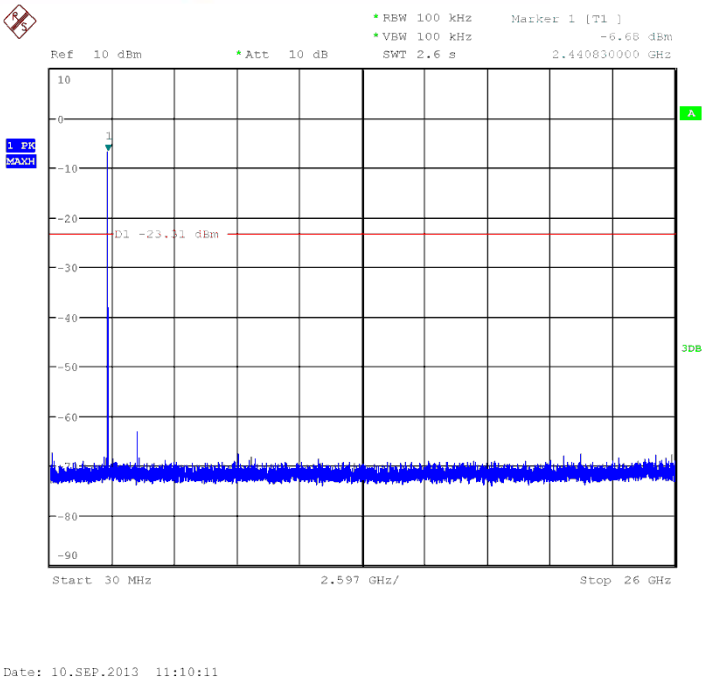


Fig.31 Conducted spurious emission: π/4 DQPSK, Ch39, 30MHz~26GHz

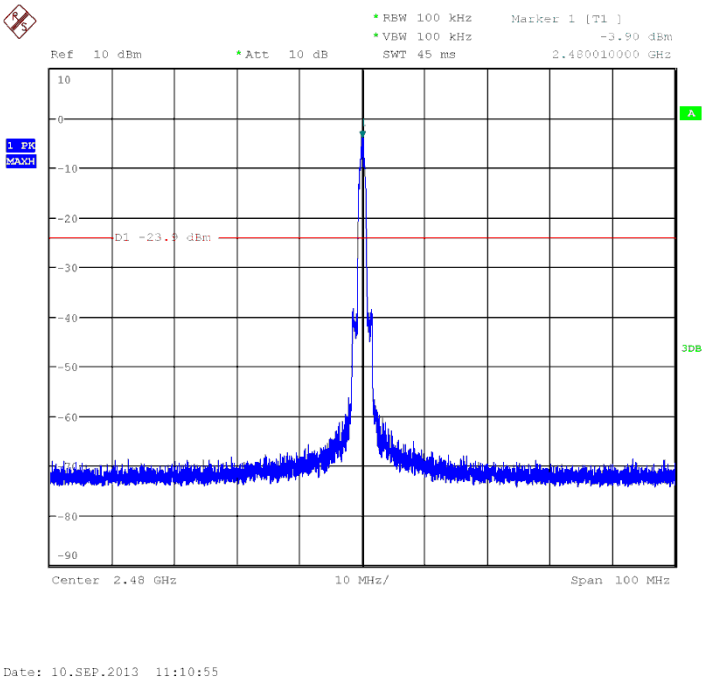


Fig.32 Conducted spurious emission: π/4 DQPSK, Ch78, 2480MHz

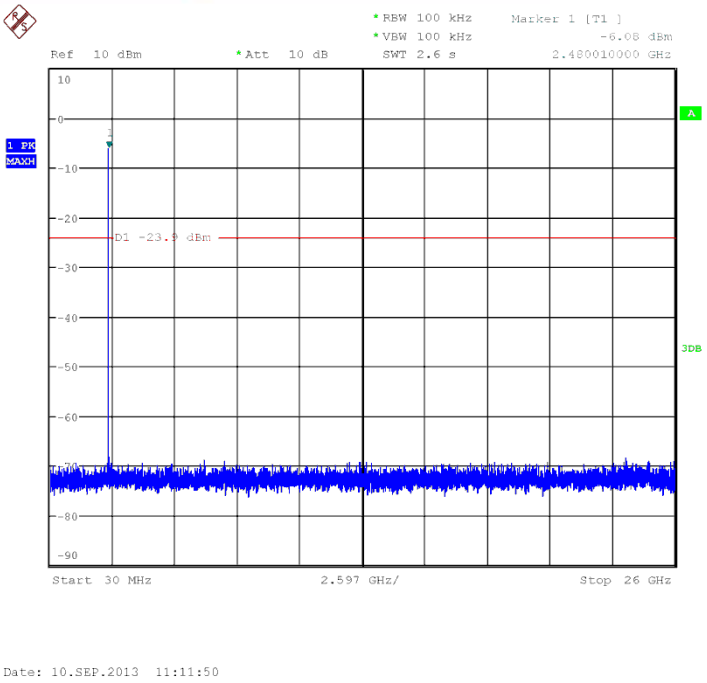


Fig.33 Conducted spurious emission: π/4 DQPSK, Ch78, 30MHz~26GHz

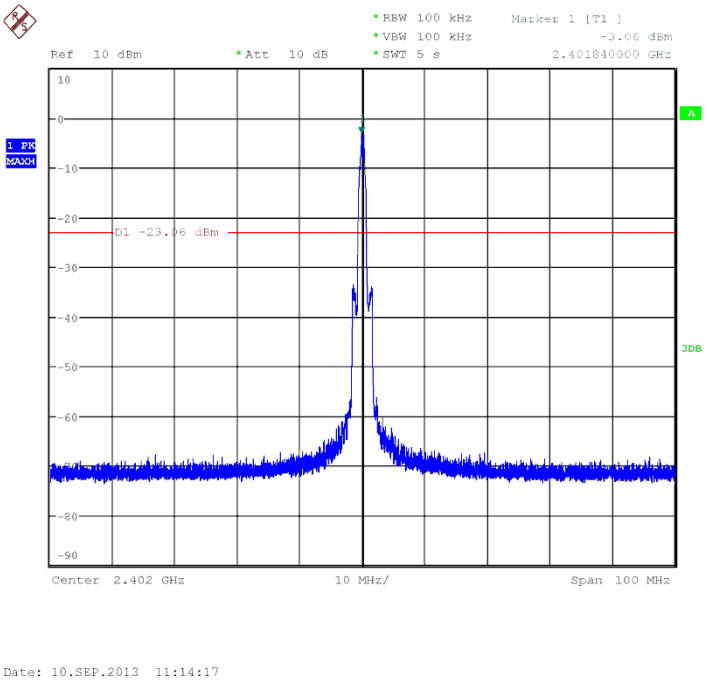


Fig.34 Conducted spurious emission: 8DPSK, Ch0, 2402MHz

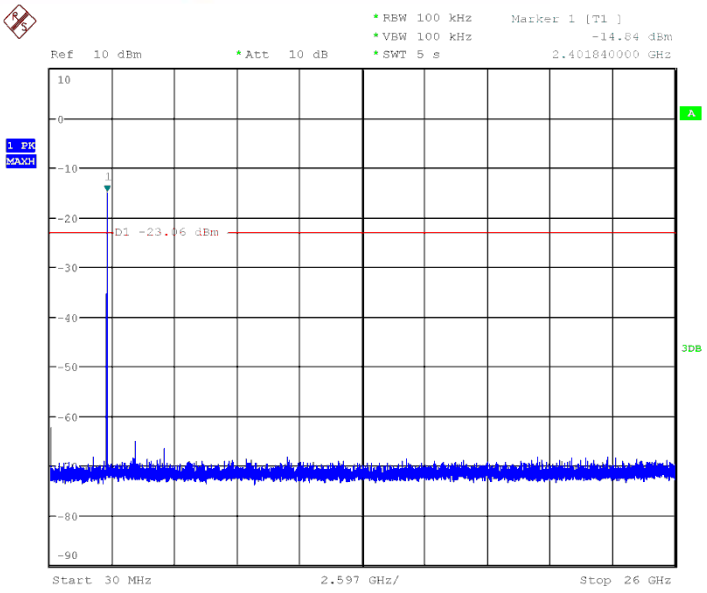


Fig.35 Conducted spurious emission: 8DPSK, Ch0, 30MHz~26GHz

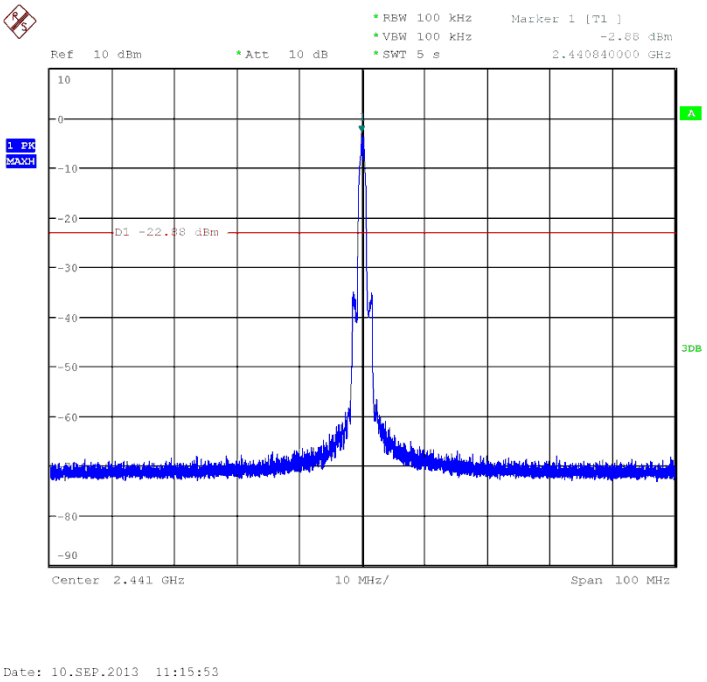


Fig.36 Conducted spurious emission: 8DPSK, Ch39, 2441MHz

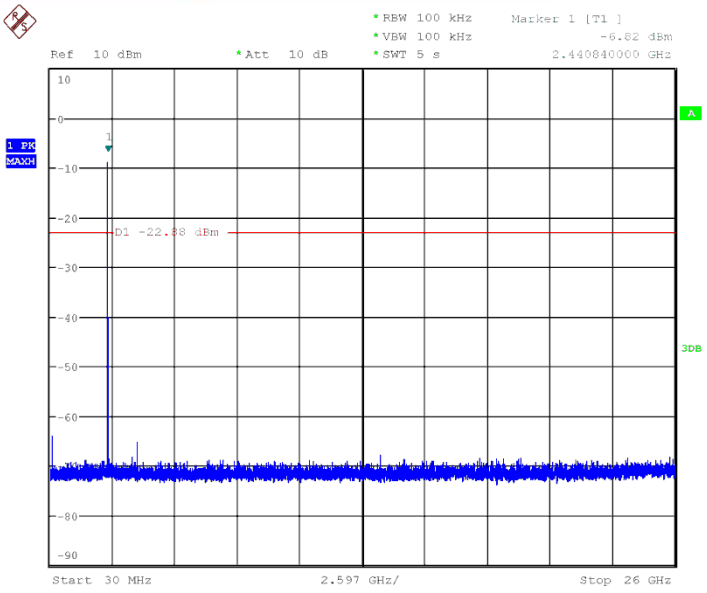


Fig.37 Conducted spurious emission: 8DPSK, Ch39, 30MHz~26GHz

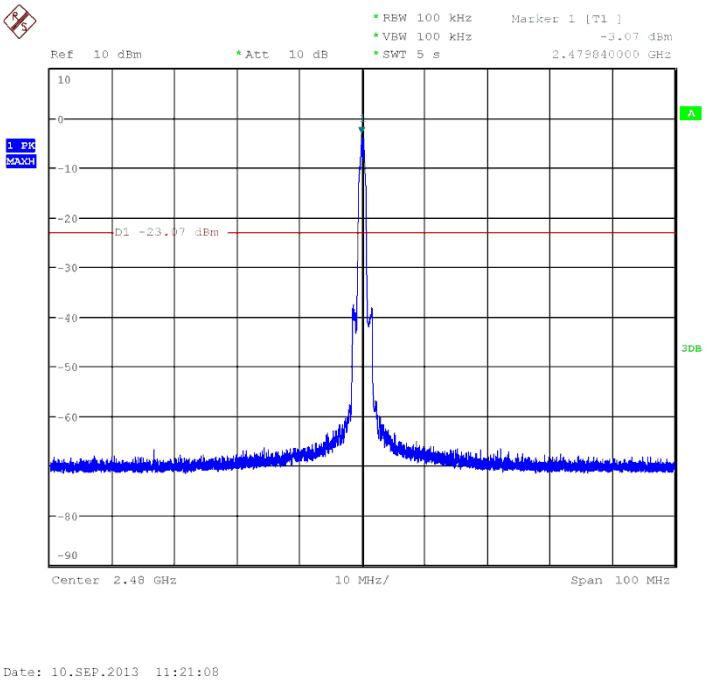


Fig.38 Conducted spurious emission: 8DPSK, Ch78, 2480MHz

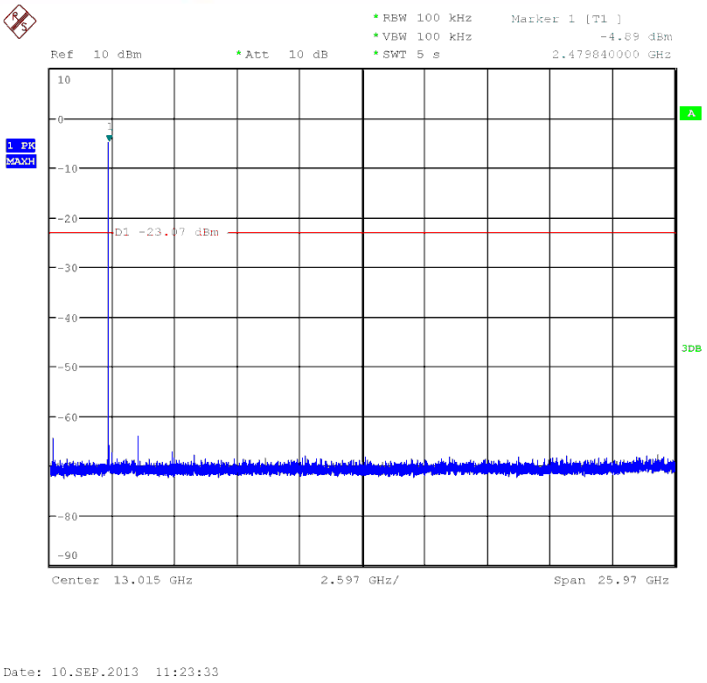


Fig.39 Conducted spurious emission: 8DPSK, Ch78, 30MHz~26GHz

5.4. Radiated Emission

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)).

The measurement is according to Public notice DA 00-705 and ANSI C63.4

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

Test condition:

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 nonconducting 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 C63.4-2009 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

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:

Result=P_{Mea} + A_{Rpi}

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
All channels	18GHz~26GHz	Fig.45	P

For π/4 DQPSK

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	30MH~1GHz	Fig.46	P
	1GHz~3GHz	Fig.47	P
	3GHz~18GHz	Fig.48	P

Power	2.38GHz~2.4GHz	Fig.49	P
Power	2.45GHz~2.5GHz	Fig.50	P
All channels	18GHz~26GHz	Fig.51	P

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	30MH~1GHz	Fig.52	P
	1GHz~3GHz	Fig.53	P
	3GHz~18GHz	Fig.54	P
Power	2.38GHz~2.4GHz	Fig.55	P
Power	2.45GHz~2.5GHz	Fig.56	P
All channels	18GHz~26GHz	Fig.57	P

GFSK Ch0 30MHz-1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
34.268	29.8	0.61	29.19	H
66.9085	21.1	0.86	20.24	V
100.034	17.3	1.91	15.39	H
299.9995	16.2	3.27	12.93	V
592.988	16.7	4.66	12.04	V

GFSK Ch0 1GHz-3GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
1084.4004	38	12.82	25.18	H
1671.2776	44.5	12.64	31.86	H
1885.7836	45.6	12.99	32.61	V
2260.6784	50	13.93	36.07	V
2738.4444	51.6	15.82	35.78	H

GFSK Ch0 3GHz-18GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
5422.5	40.8	7.1	33.7	V
13776	51.5	11.93	39.57	V
12768.5	50.5	13.3	37.2	H

π/4 DQPSK Ch0 30MHz-1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
34.074	16.9	0.61	16.29	H
59.876	12.4	0.86	11.54	H
99.9855	19.6	1.91	17.69	H
110.607	14.9	2.66	12.24	H
170.0195	11	3.27	7.73	H

π/4 DQPSK Ch0 1GHz-3GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
1230.7692	39.8	12.82	26.98	V
1828.582	46.6	12.64	33.96	V
2032.9936	47.5	12.99	34.51	H

π/4 DQPSK Ch0 3GHz-18GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
3510.5	40.5	7.1	33.4	H
10923.5	46.4	10.73	35.67	V
12147.5	48.3	11.93	36.37	V
15981	53.8	13.3	40.5	V
14843	49.8	13.3	36.5	H

8DPSK 30MHz-1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
34.947	19.1	0.61	18.49	V

99.9855	13.7	0.86	12.84	V
199.9925	13.3	1.91	11.39	V
358.733	15.7	2.66	13.04	V
538.6195	19.5	3.27	16.23	V
804.2055	24.7	4.97	19.73	V

8DPSK 1GHz-3GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
1087.4848	38.7	12.82	25.88	H
1217.31	39	12.64	26.36	V
1385.8304	40.4	12.99	27.41	H
1477.5212	42.9	13.93	28.97	V
2685.968	44.2	15.82	28.38	H

8DPSK 3GHz-18GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
3514.5	40.3	7.1	33.2	H
4552.5	40.5	8.72	31.78	H
5921	41.4	10.73	30.67	H
7426.5	43.1	11.93	31.17	H
11493.5	50	13.3	36.7	H
13096	50	13.7	36.3	H

All Ch 18GHz~26.5GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
19525.786000	49.0	6.97	42.03	V
20684.980000	47.7	6.97	40.73	H
22119.789000	45.3	3.05	42.05	V
23627.899000	43.8	3.05	40.75	H

24606.319000	43.4	3.05	40.35	V
25244.558000	43.6	3.05	40.55	H

Conclusion: PASS

Test graphs as below:

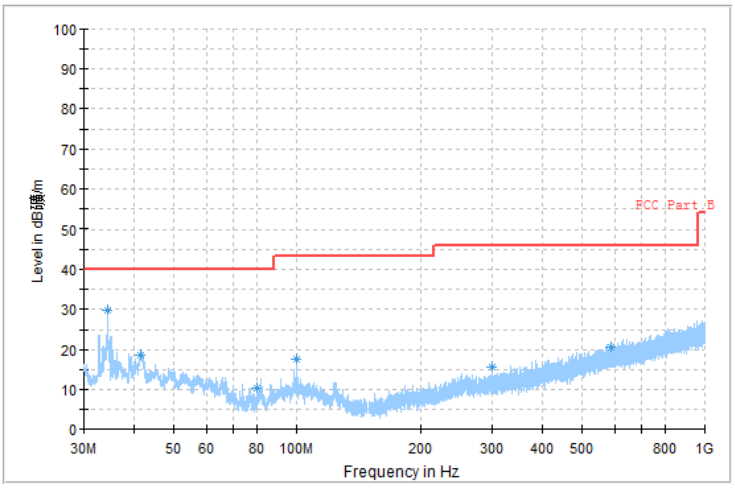


Fig.40 Radiated emission: GFSK, Ch0, 30MHz~1GHz

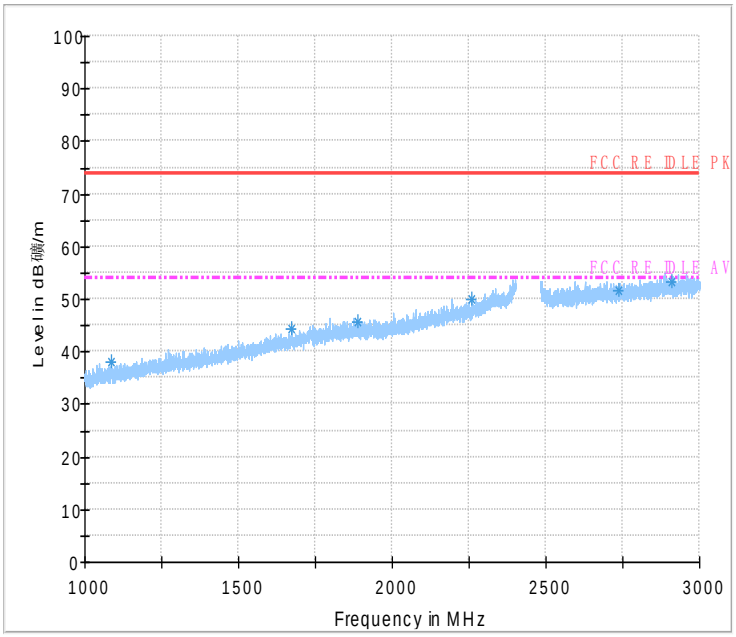


Fig.41 Radiated emission: GFSK, Ch0, 1GHz~3GHz

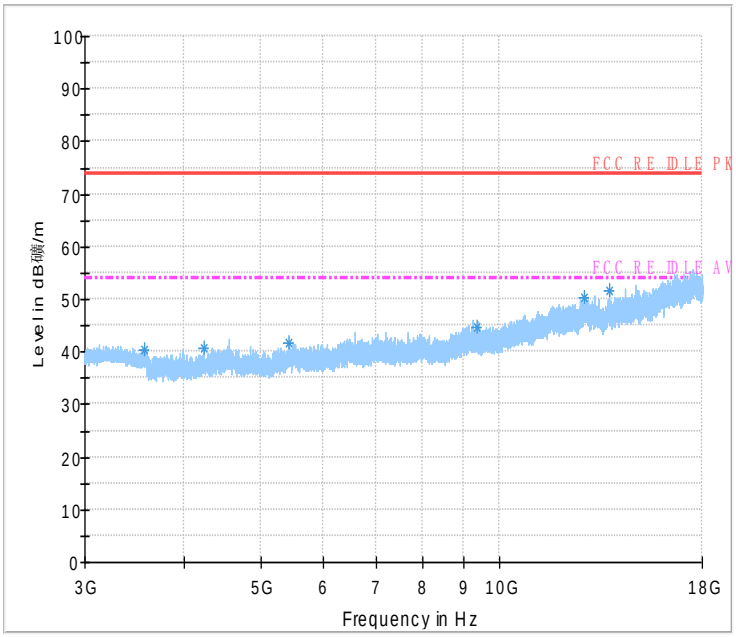


Fig.42 Radiated emission: GFSK, Ch0, 3GHz~18GHz

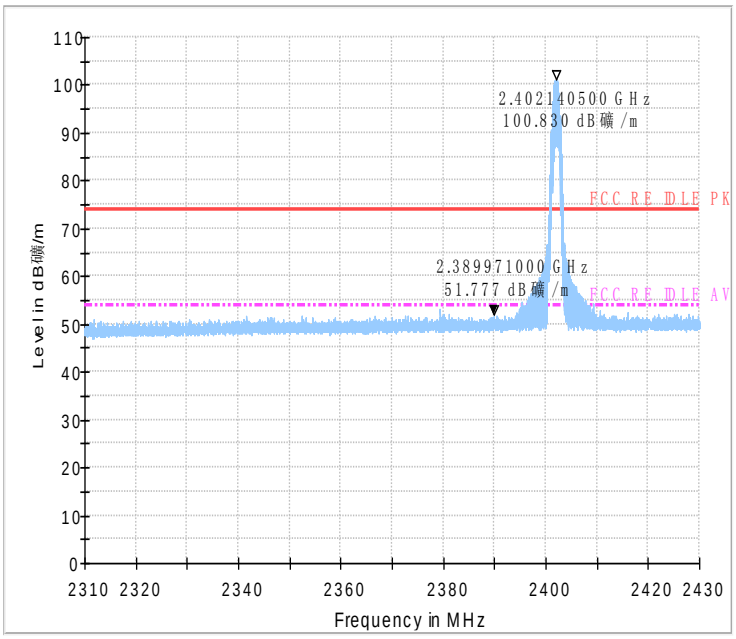
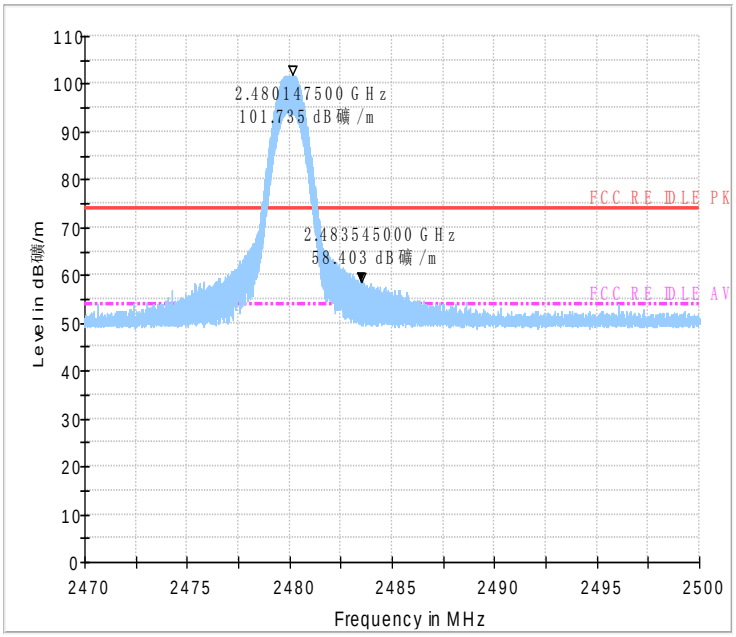


Fig.43 Radiated emission (Power): GFSK, low channel



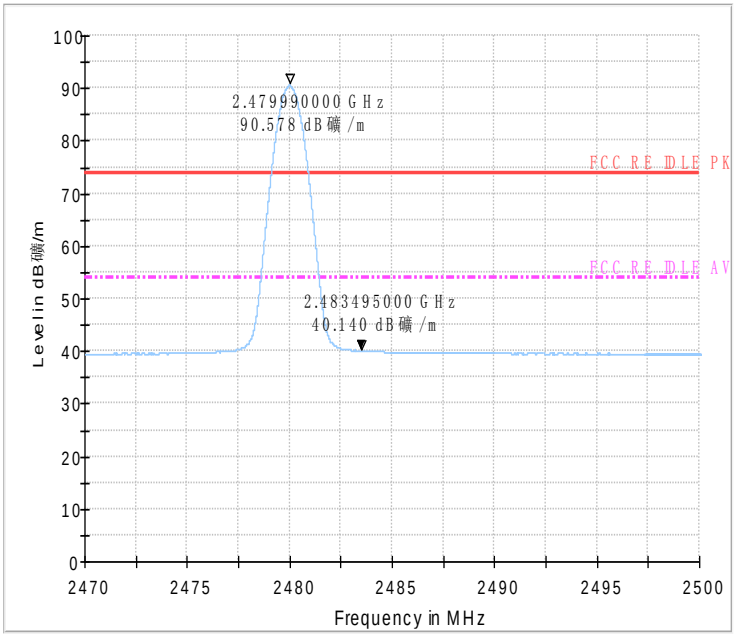


Fig.44 Radiated emission (Power): GFSK, high channel

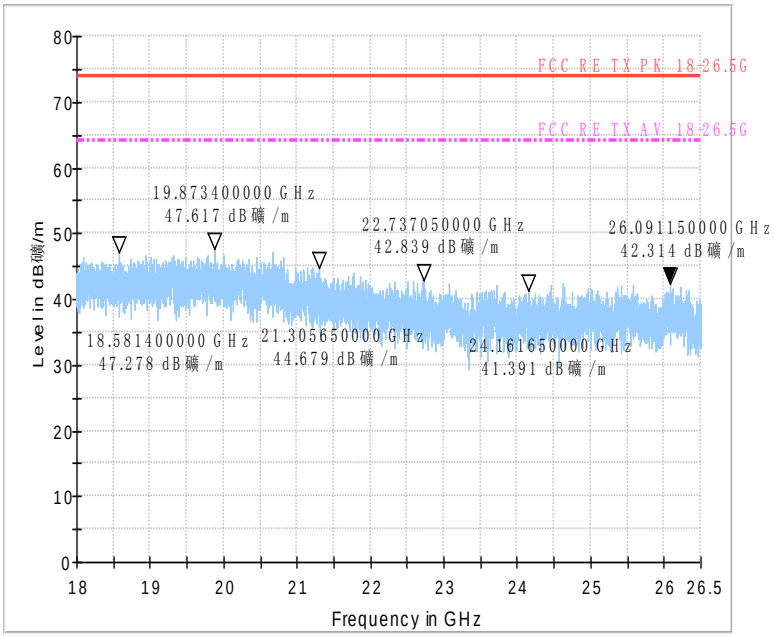


Fig.45 Radiated emission: GFSK, 18 GHz - 26 GHz

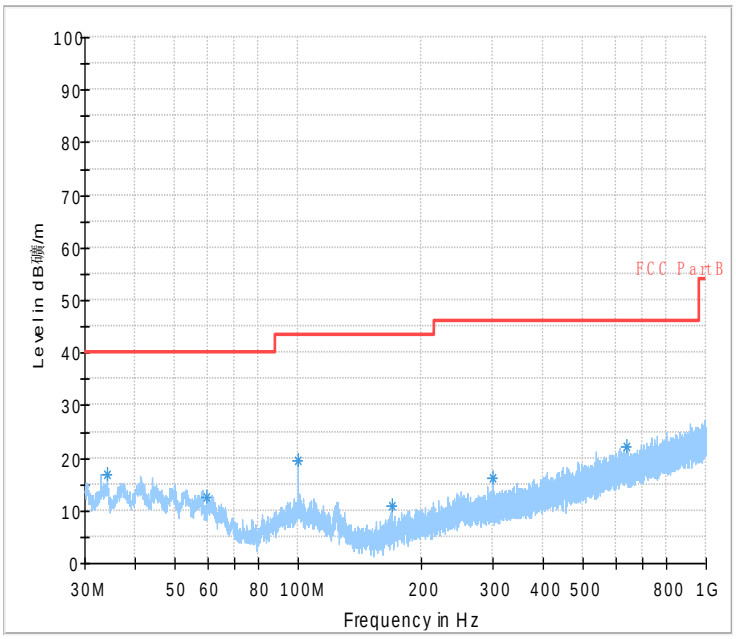


Fig.46 Radiated emission: π/4 DQPSK, Ch0, 30MHz~1GHz

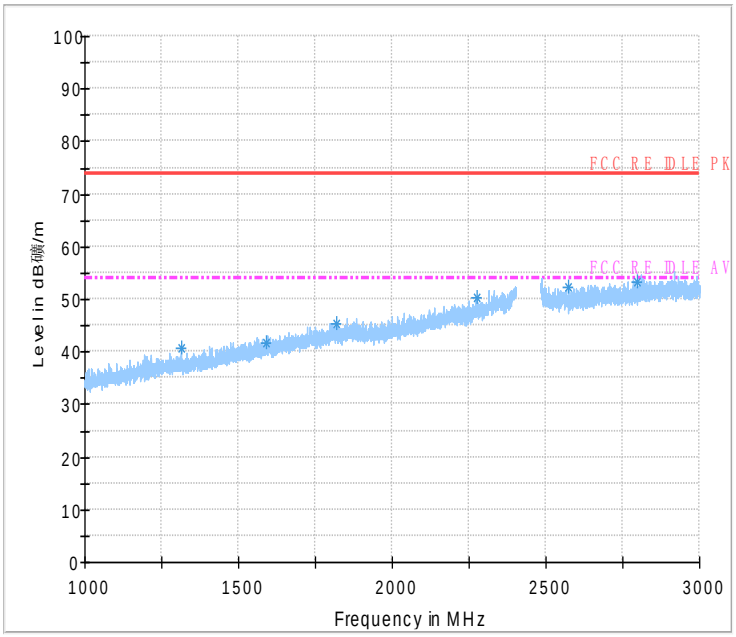


Fig.47 Radiated emission: π/4 DQPSK, Ch0, 1GHz~3GHz

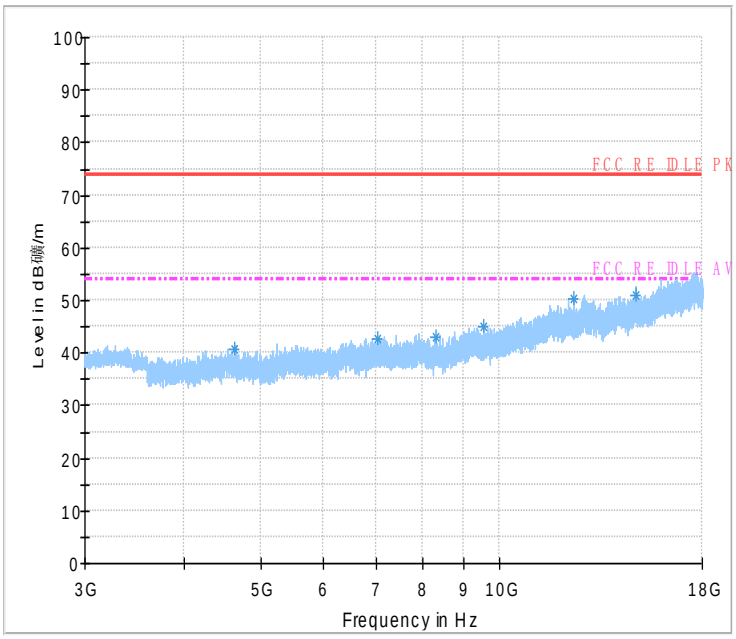


Fig.48 Radiated emission: π/4 DQPSK, Ch0, 3GHz~18GHz

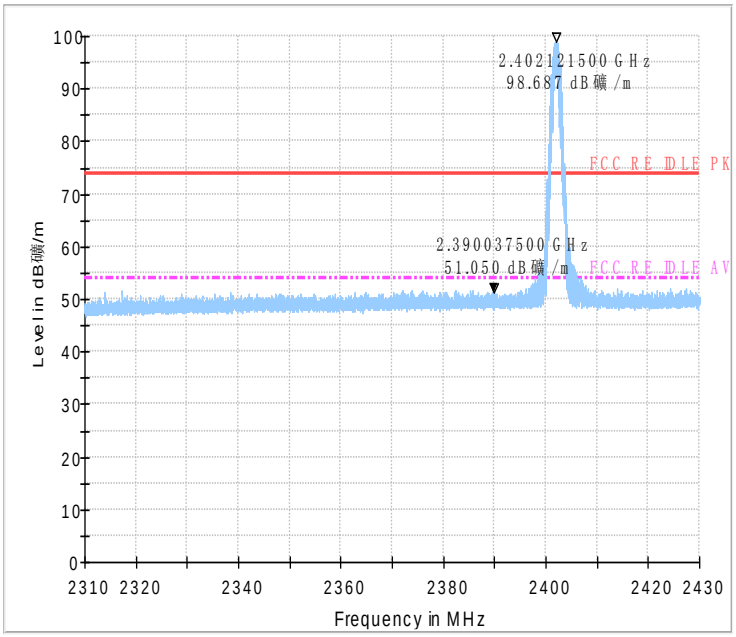


Fig.49 Radiated emission (Power): GFSK, low channel

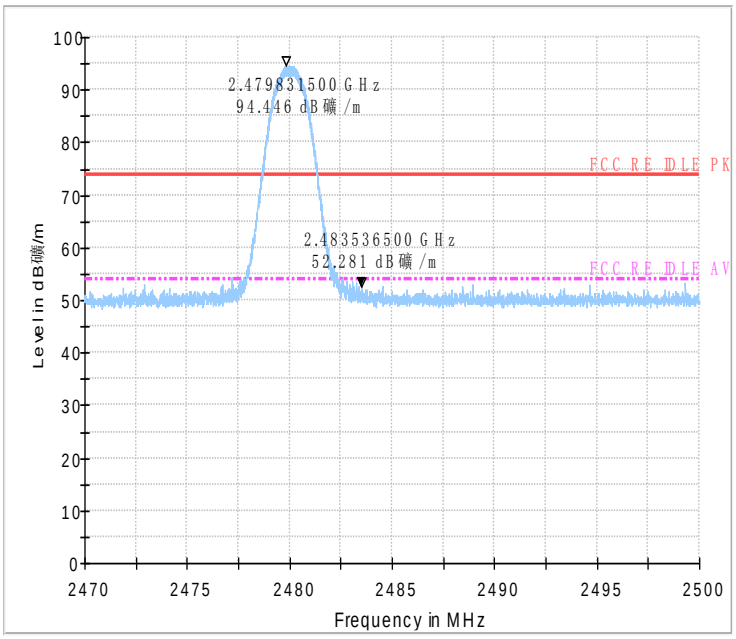


Fig.50 Radiated emission (Power): GFSK, high channel

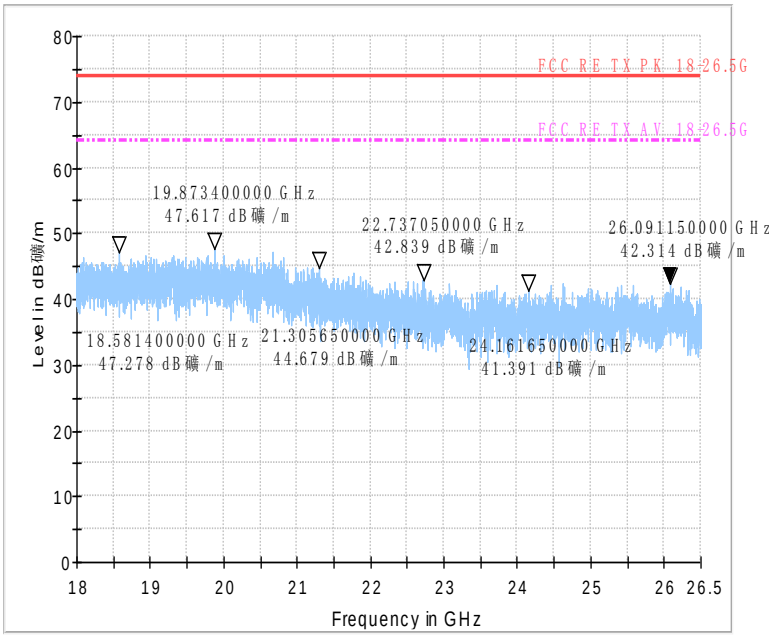


Fig.51 Radiated emission: GFSK, 18 GHz - 26 GHz

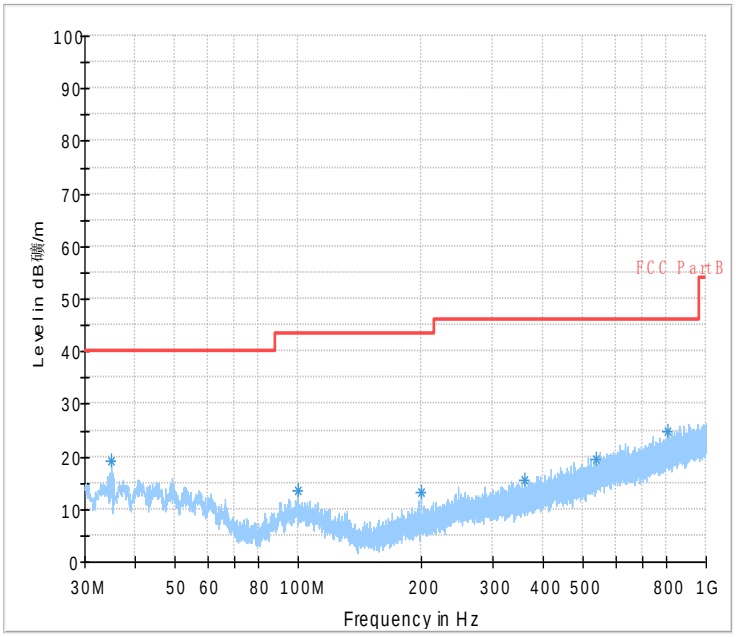


Fig.52 Radiated emission: 8DPSK, Ch0, 30MHz~1GHz

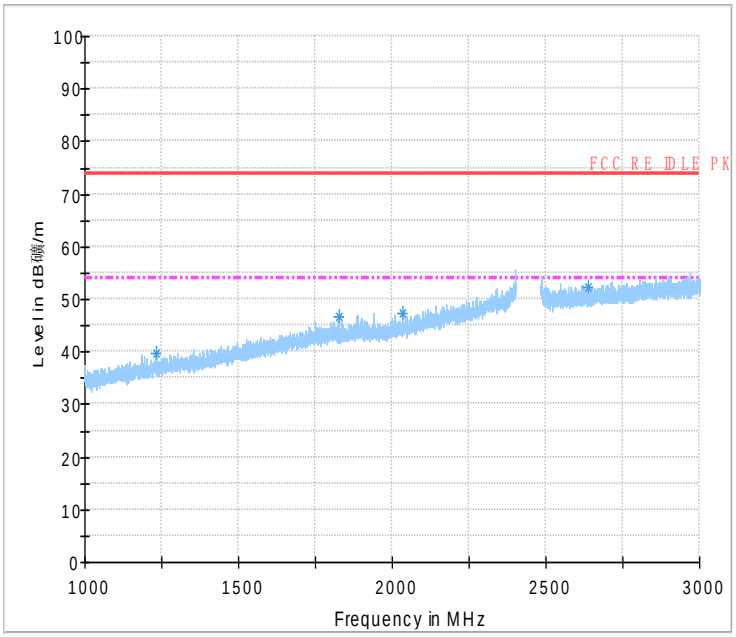


Fig.53 Radiated emission: 8DPSK, Ch0, 1GHz~3GHz

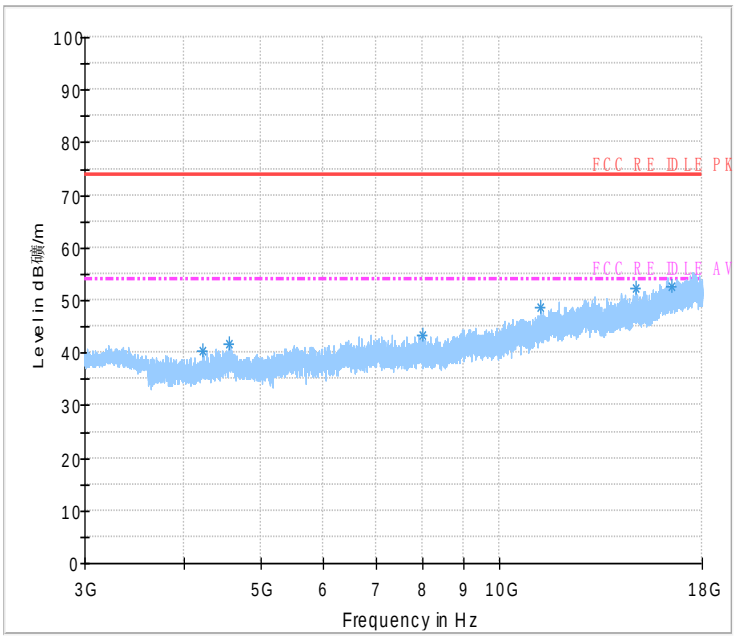
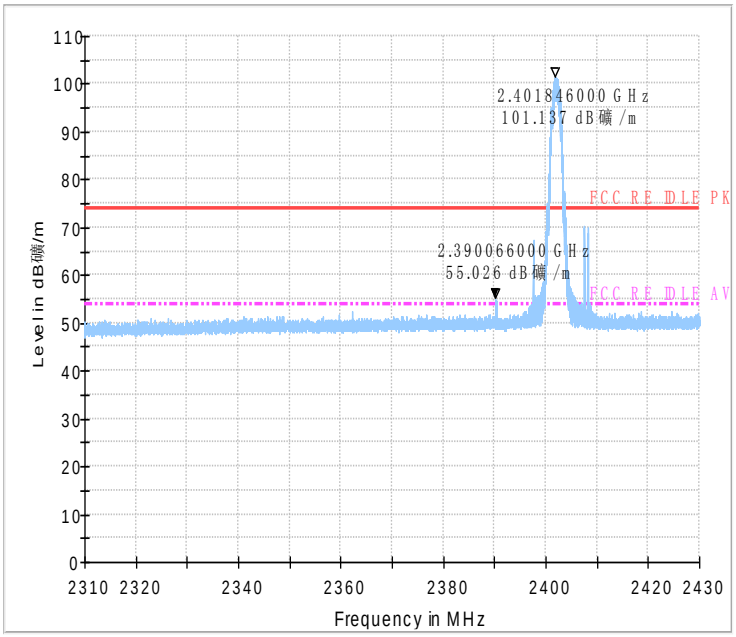


Fig.54 Radiated emission: 8DPSK, Ch0, 3GHz~18GHz



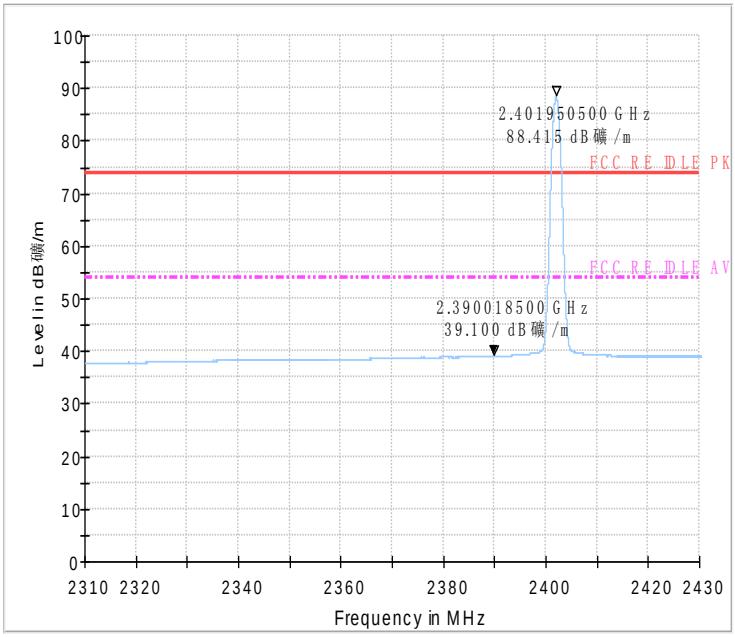
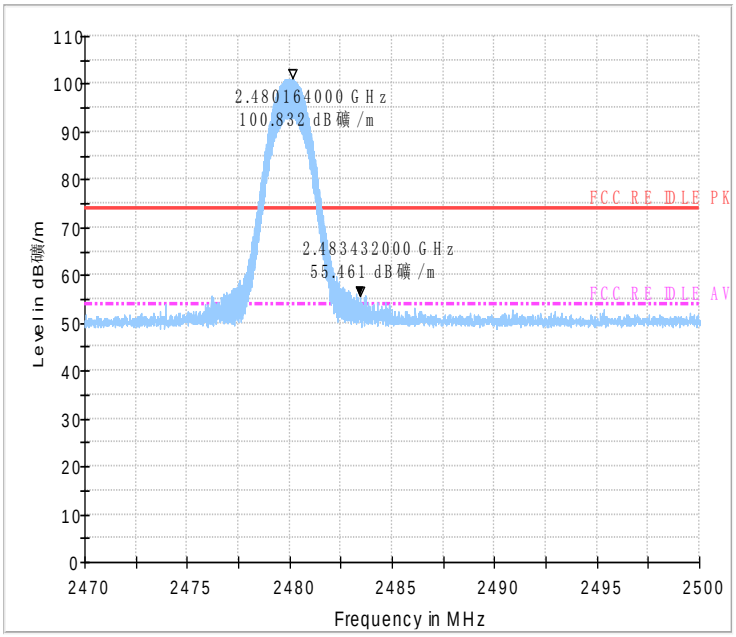


Fig.55 Radiated emission (Power): GFSK, low channel



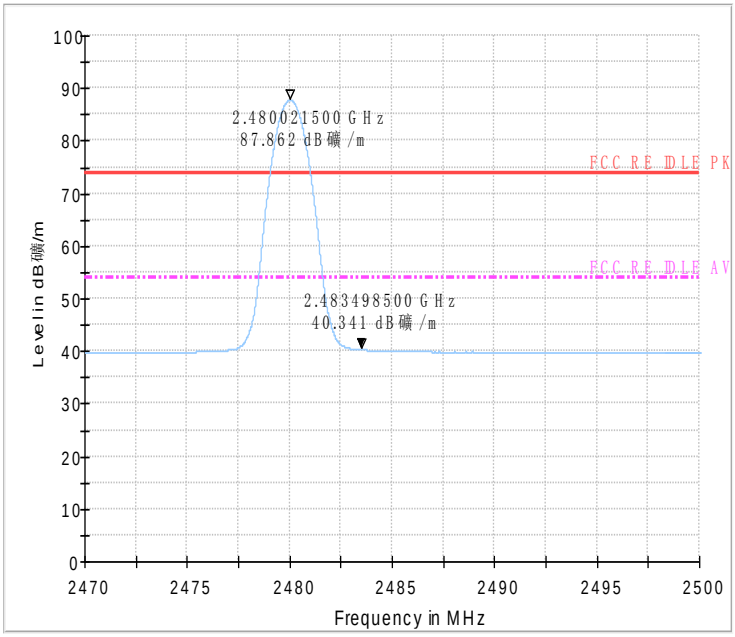


Fig.56 Radiated emission (Power): GFSK, high channel

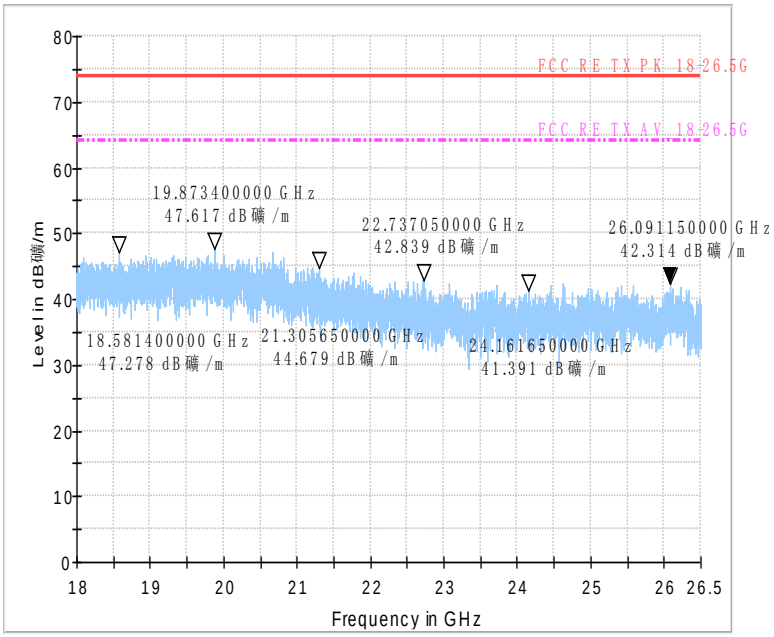


Fig.57 Radiated emission: GFSK, 18 GHz - 26 GHz

5.5. Time Of Occupancy (Dwell Time)

Measurement Limit:

Standard	Limit (ms)
FCC 47CFR Part 15.247 (a) (1) (iii)	< 400

The measurement is according to Public notice DA 00-705 and ANSI C63.4

Measurement Result:

For GFSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.58	53.68	P
		Fig.59		
	DH3	Fig.60	187.35	P
		Fig.61		
	DH5	Fig.62	320.05	P
		Fig.63		

For π/4 DQPSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	2DH1	Fig.64	53.68	P

		Fig.65		
	2DH3	Fig.66	187.35	P
		Fig.67		
	2DH5	Fig.68	320.05	P
		Fig.69		

For 8DPSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	3DH1	Fig.70	53.68	P
		Fig.71		
	3DH3	Fig.72	187.39	P
		Fig.73		
	3DH5	Fig.74	320.05	P
		Fig.75		

Note: the dwell time is Calculated of the sum of test time about 31.5 seconds.

Equation: dwell time = pusletime *(1600/N)/79*T . N is the number of timeslot; T is the time about 31.5s.

The time of DH5=3.01*(1600/6)/79*31.5=308.3ms.

Conclusion: PASS

Test graphs as below:

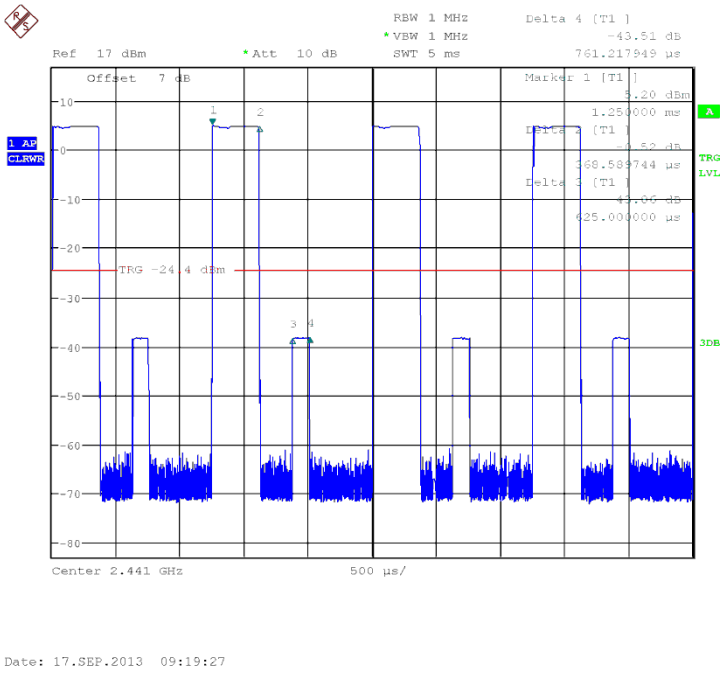


Fig.58 Time of occupancy (Dwell Time): Ch39, Packet DH1

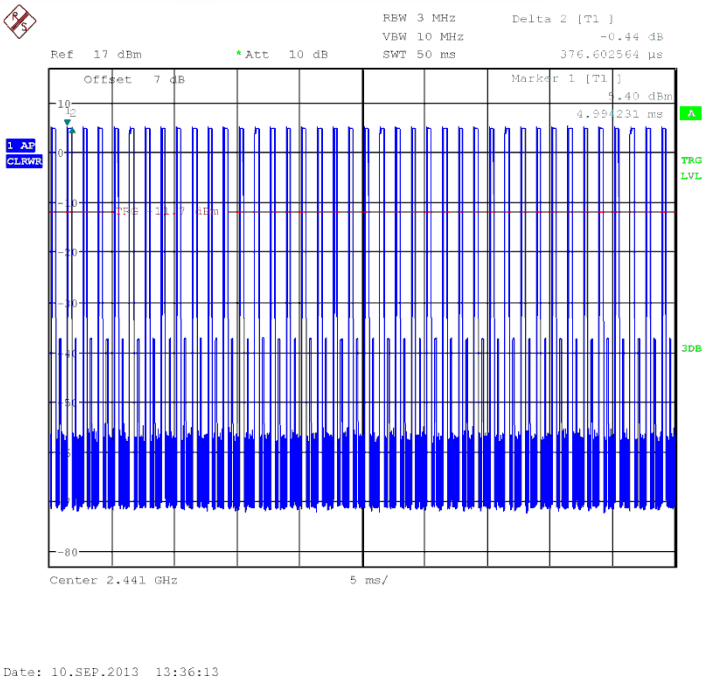


Fig.59 Number of Transmissions Measurement: Ch39, Packet DH1

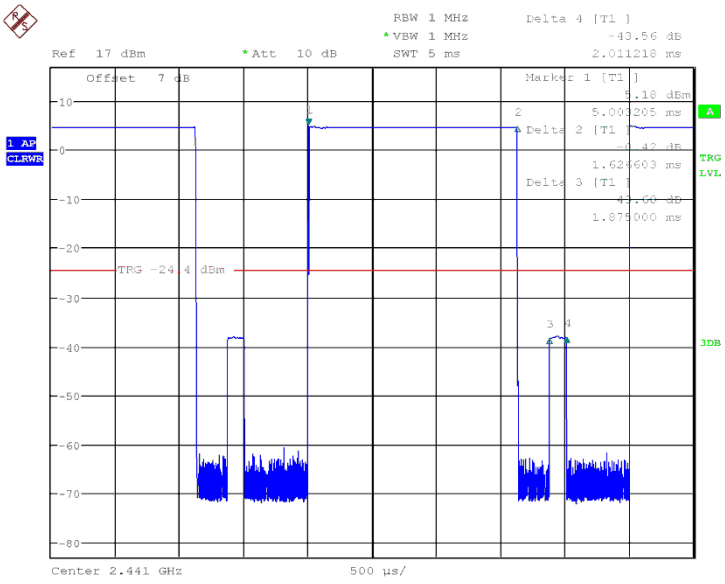


Fig.60 Time of occupancy (Dwell Time): Ch39, Packet DH3

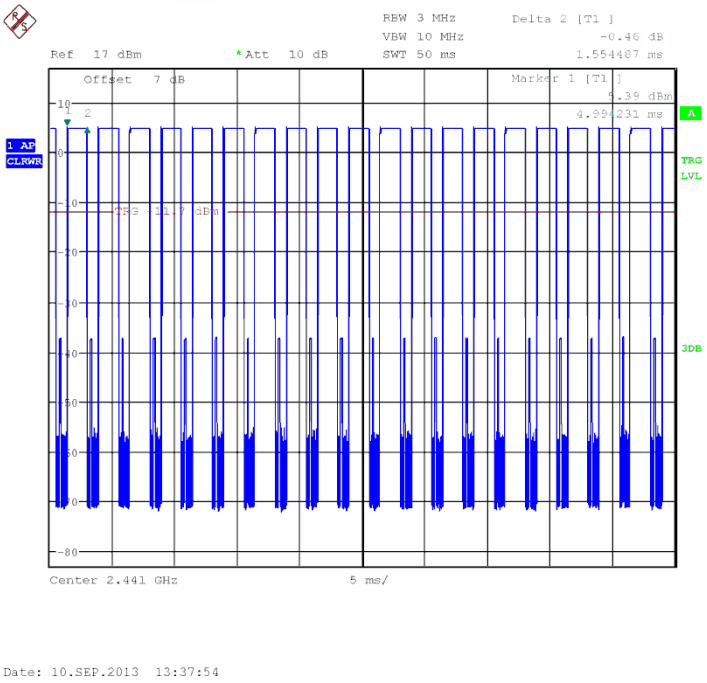


Fig.61 Number of Transmissions Measurement: Ch39, Packet DH3

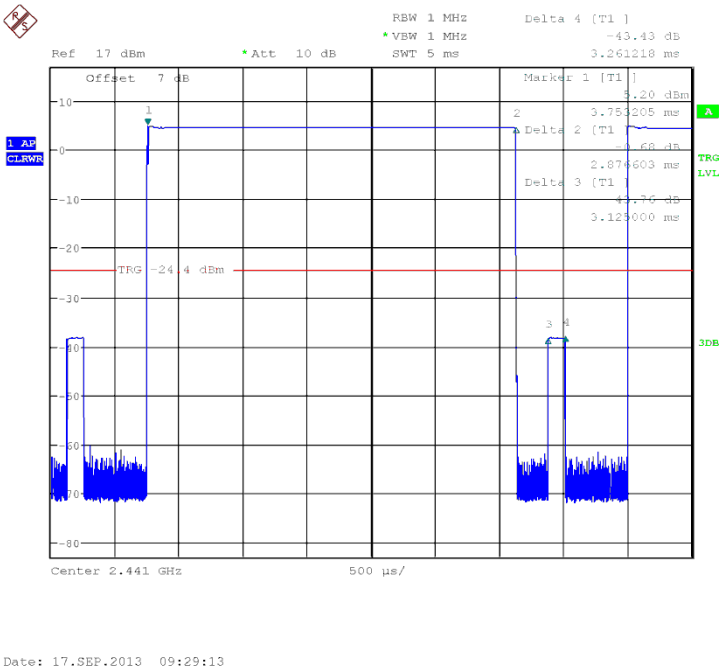


Fig.62 Time of occupancy (Dwell Time): Ch39,Packet DH5

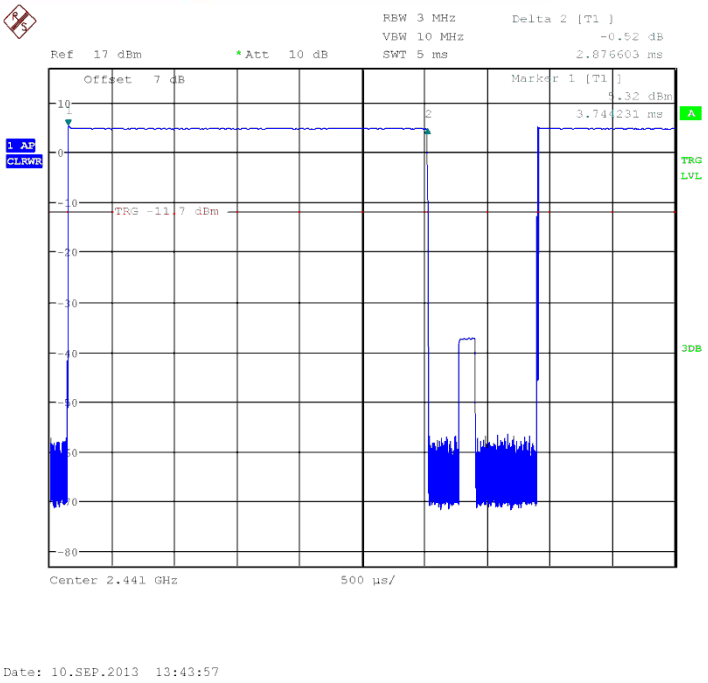


Fig.63 Number of Transmissions Measurement: Ch39, Packet DH5

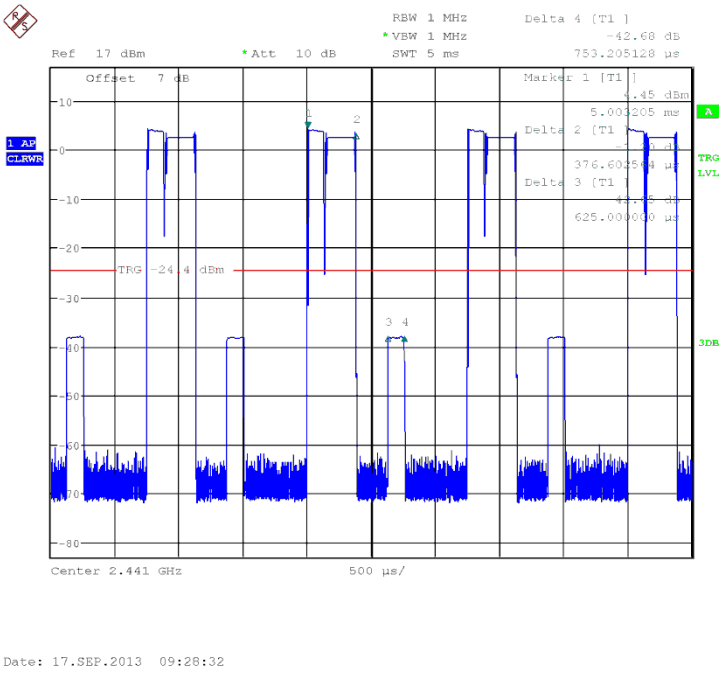


Fig.64 Time of occupancy (Dwell Time): Ch39,Packet 2-DH1

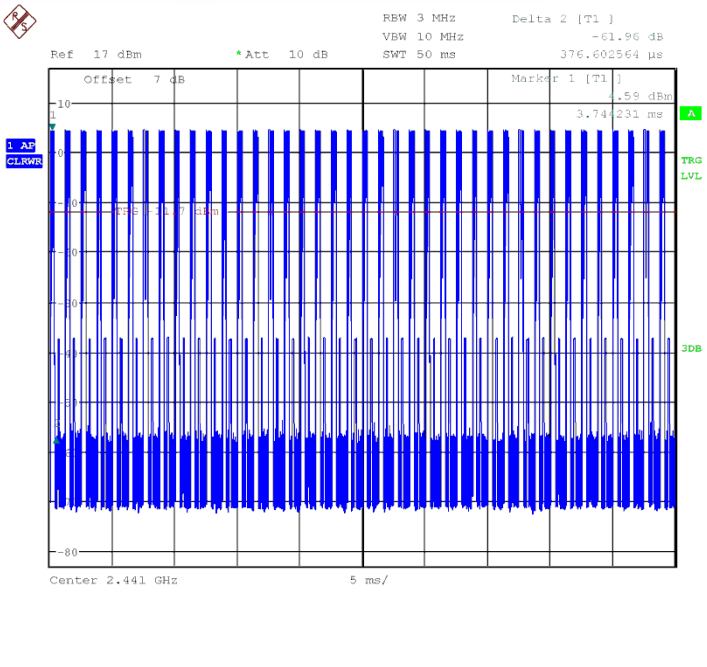


Fig.65 Number of Transmissions Measurement: Ch39, Packet 2-DH1

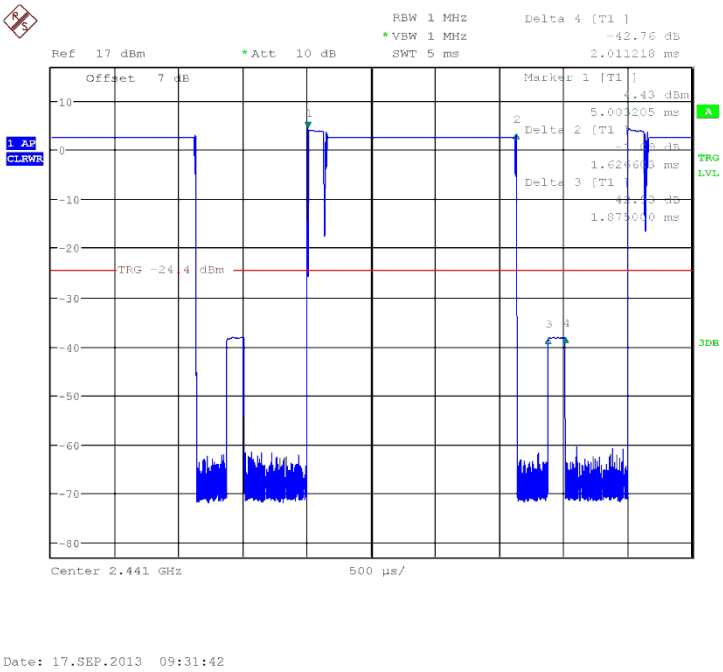


Fig.66 Time of occupancy (Dwell Time): Ch39,Packet 2-DH3

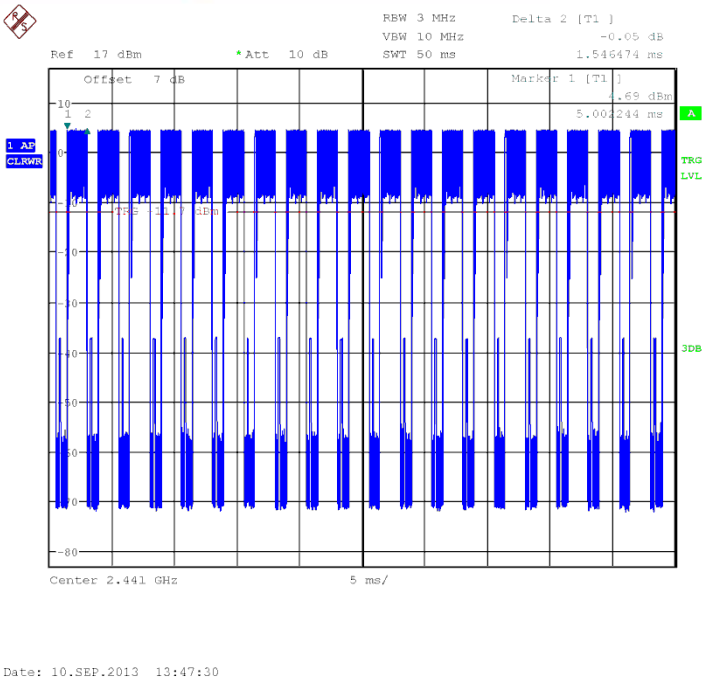


Fig.67 Number of Transmissions Measurement: Ch39, Packet 2-DH3

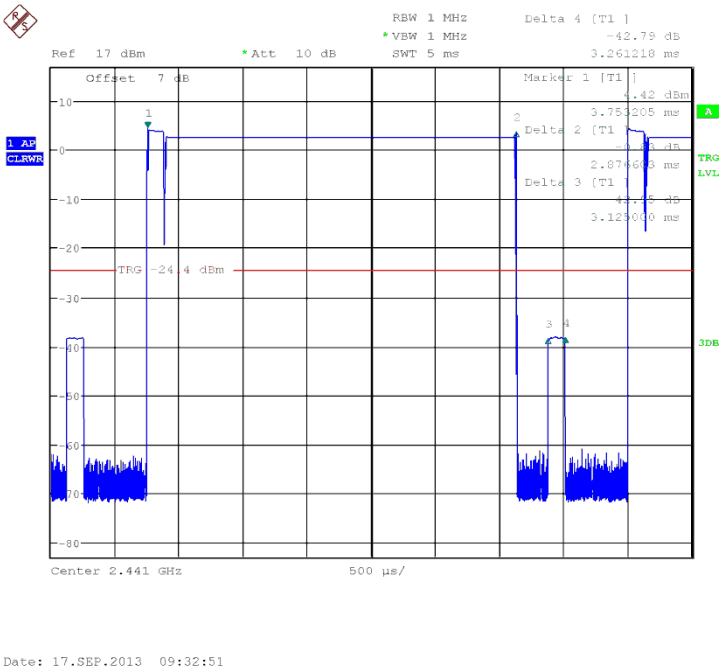


Fig.68 Time of occupancy (Dwell Time): Ch39,Packet 2-DH5

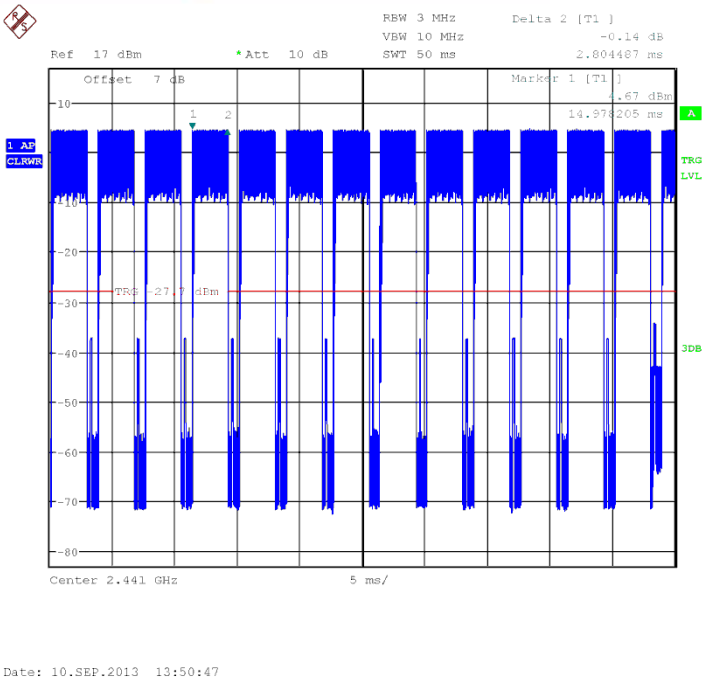


Fig.69 Number of Transmissions Measurement: Ch39, Packet 2-DH5

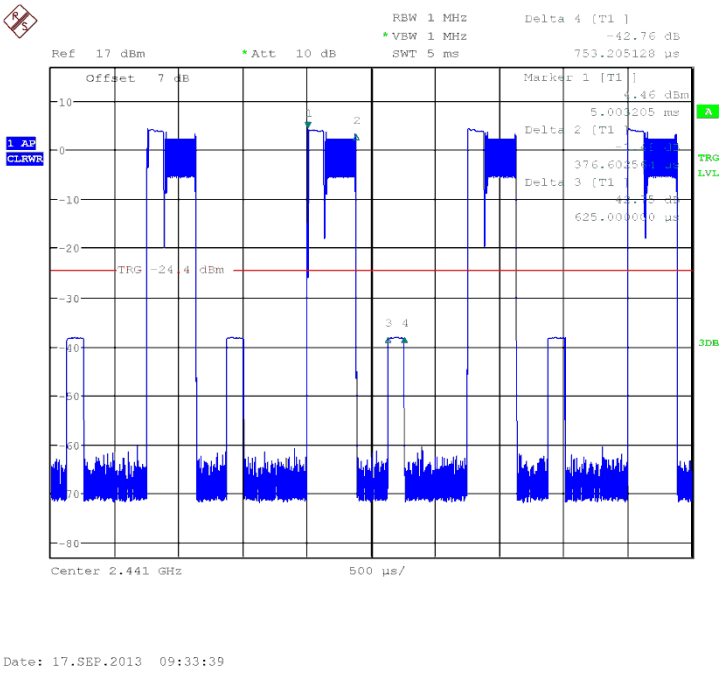


Fig.70 Time of occupancy (Dwell Time): Ch39,Packet 3-DH1

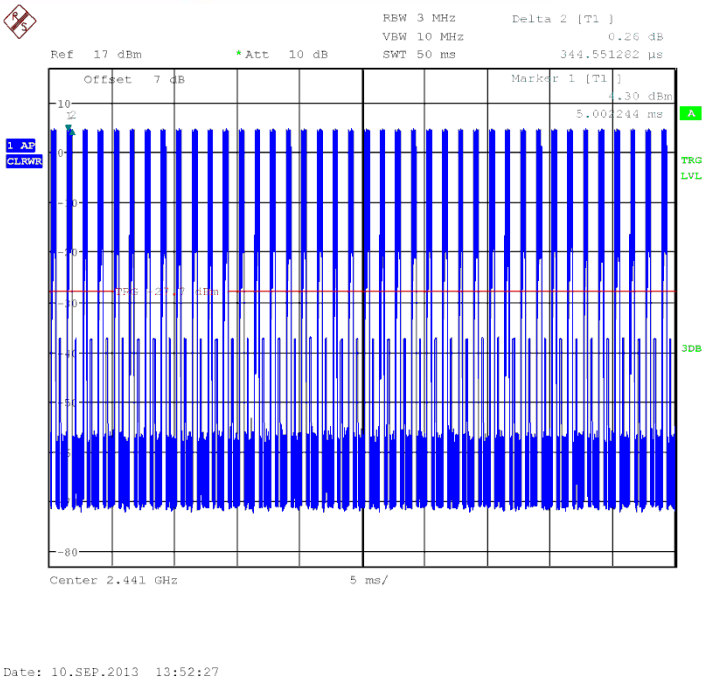


Fig.71 Number of Transmissions Measurement: Ch39, Packet 3-DH1

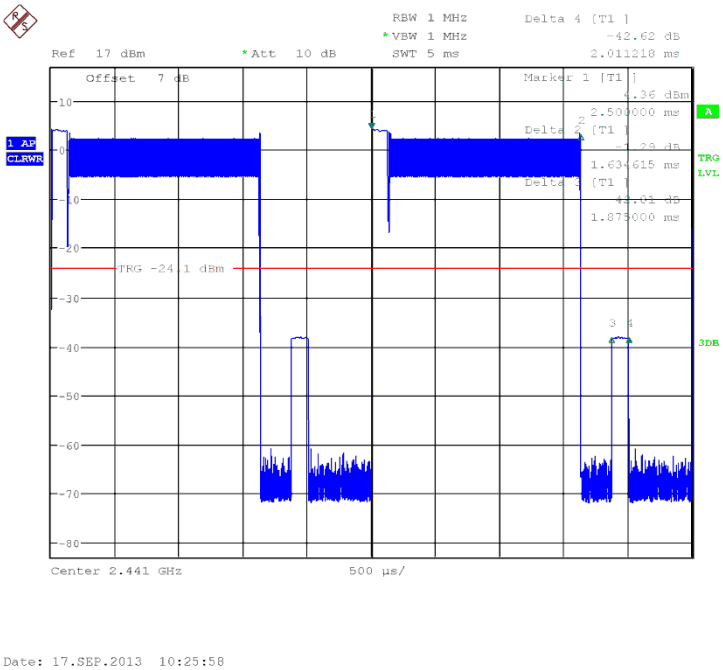


Fig.72 Time of occupancy (Dwell Time): Ch39,Packet 3-DH3

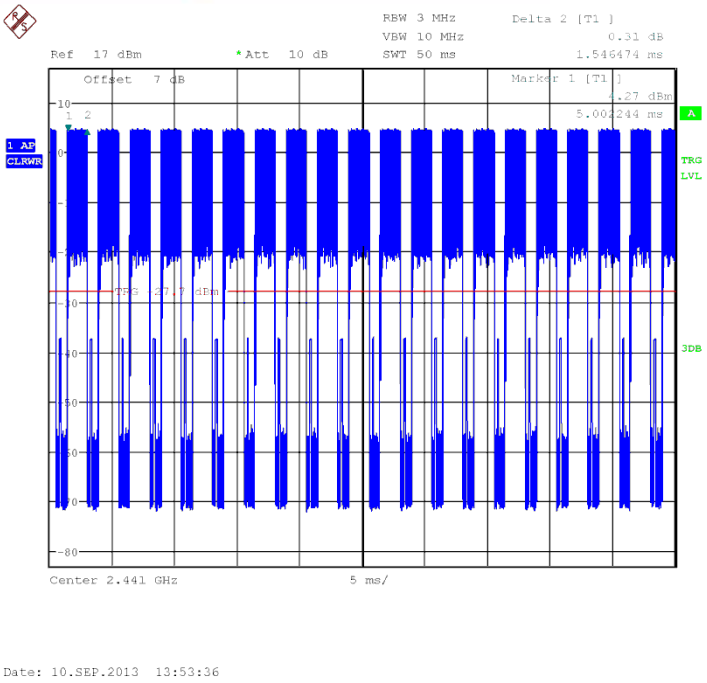


Fig.73 Number of Transmissions Measurement: Ch39, Packet 3-DH3

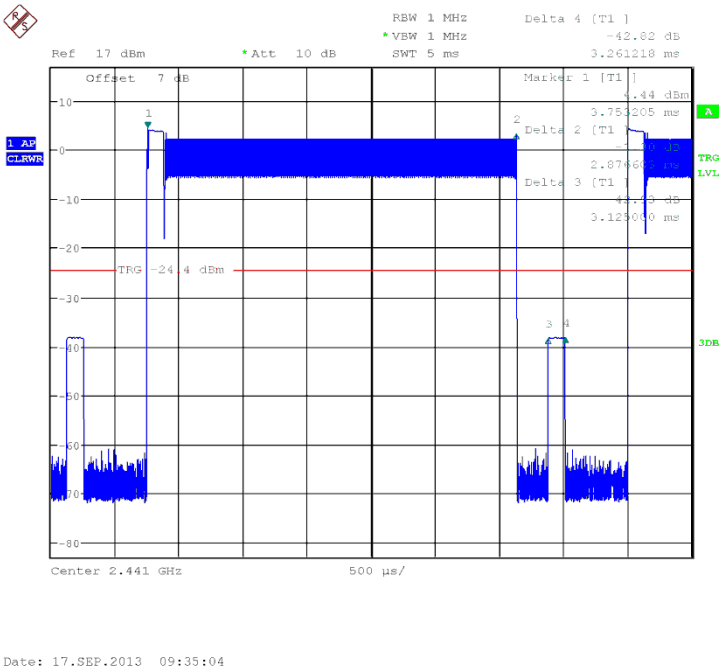


Fig.74 Time of occupancy (Dwell Time): Ch39,Packet 3-DH5

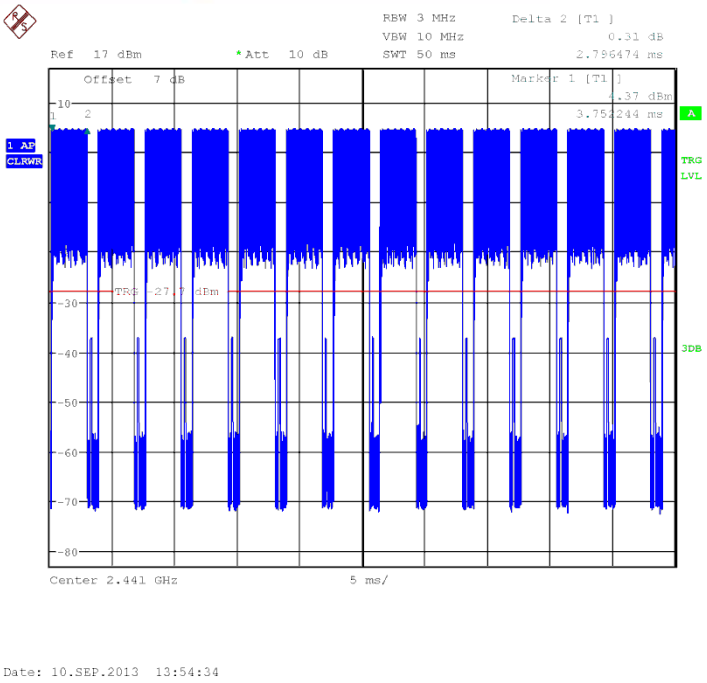


Fig.75 Number of Transmissions Measurement: Ch39, Packet 3-DH5

5.6. 20dB Bandwidth

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (a) (1)	N/A

The measurement is according to Public notice DA 00-705 and ANSI C63.4.

Measurement Result:

For GFSK

Channel	20dB Bandwidth (KHz)		Conclusion
0	Fig.76	937.5	P
39	Fig.77	944.346	P
78	Fig.78	961.538	P

For π/4 DQPSK

Channel	20dB Bandwidth (KHz)		Conclusion
0	Fig.79	1206.731	P
39	Fig.80	1254.808	P
78	Fig.81	1201.731	P

For 8DPSK

Channel	20dB Bandwidth (KHz)	Conclusion

0	Fig.82	1120.346	P
39	Fig.83	1249.95	P
78	Fig.84	1245.192	P

Conclusion: PASS

Test graphs as below:

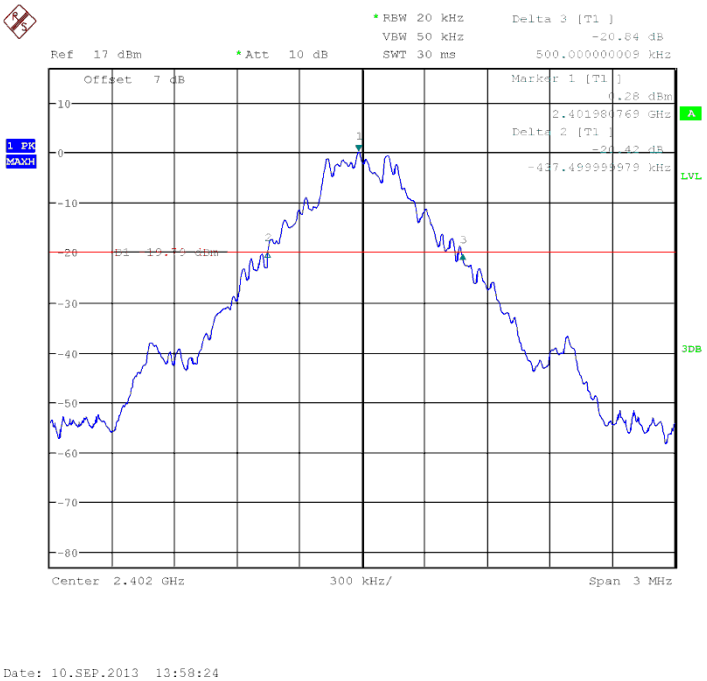


Fig.76 20dB Bandwidth: GFSK, Ch0

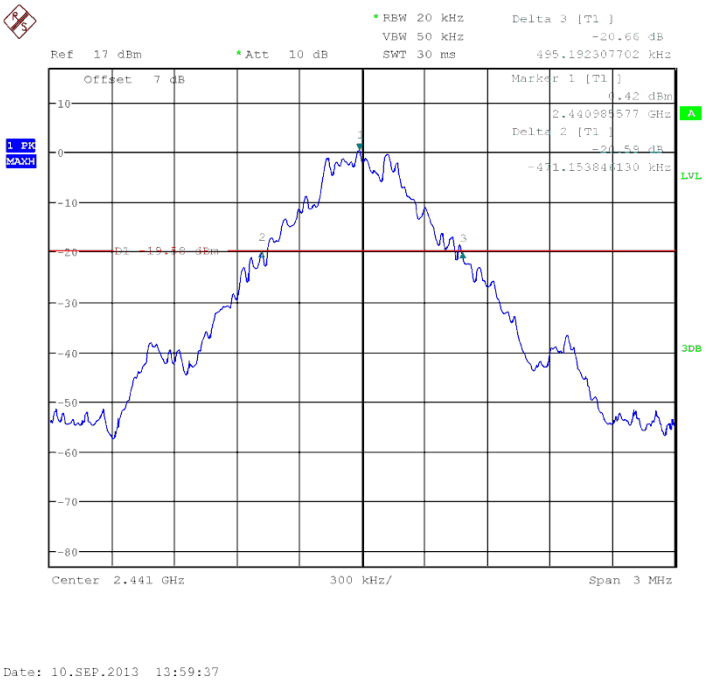


Fig.77 20dB Bandwidth: GFSK, Ch39

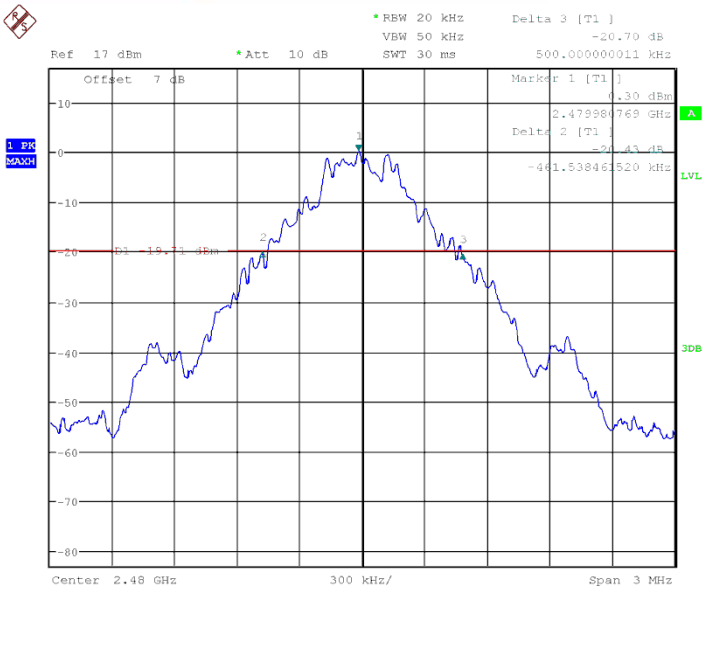


Fig.78 20dB Bandwidth: GFSK, Ch78

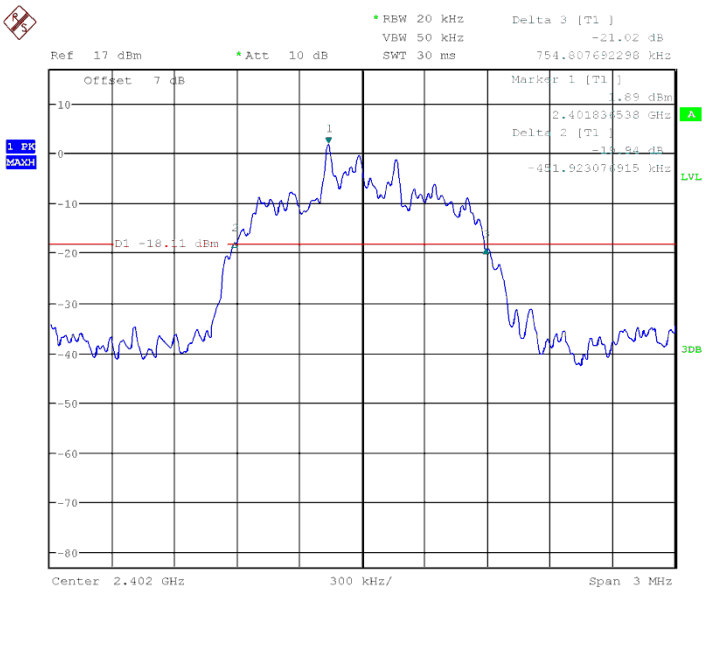


Fig.79 20dB Bandwidth: π/4 DQPSK, Ch0

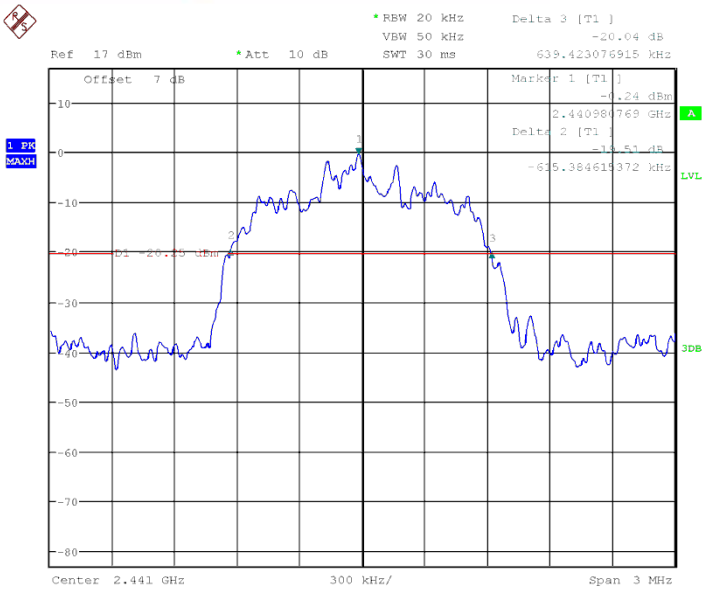


Fig.80 20dB Bandwidth: π/4 DQPSK, Ch39

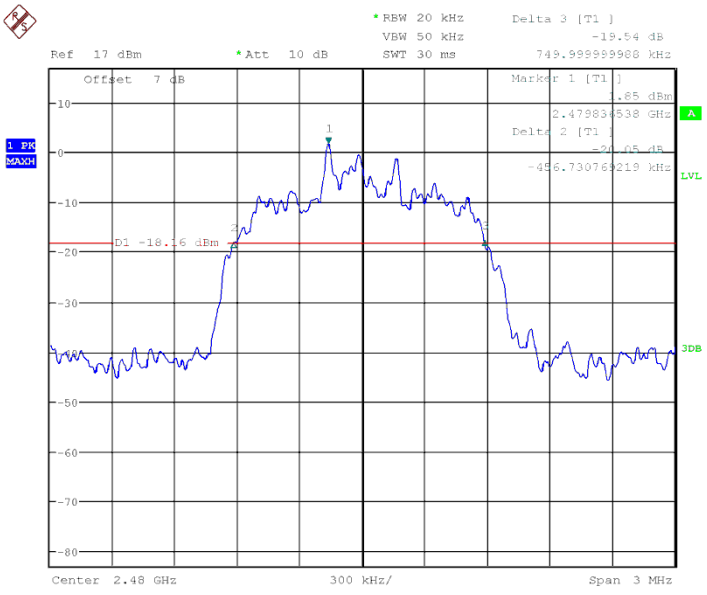


Fig.81 20dB Bandwidth: π/4 DQPSK, Ch78

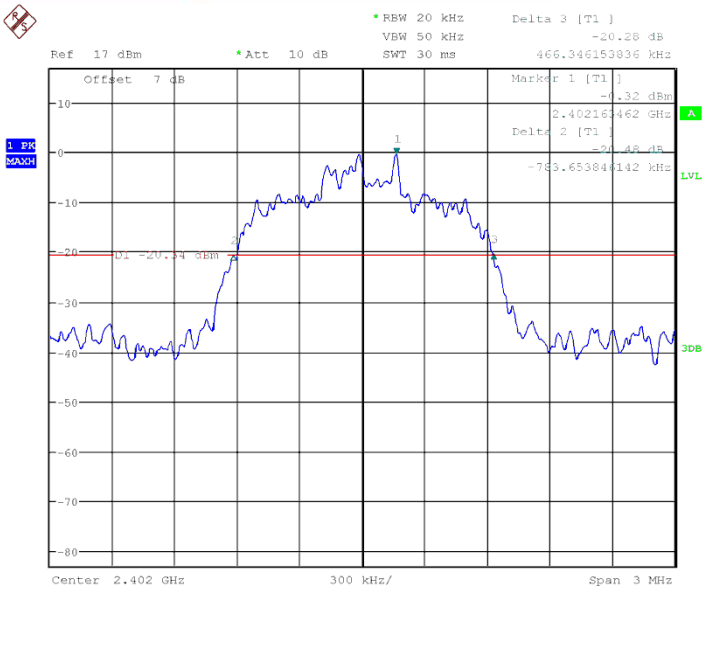


Fig.82 20dB Bandwidth: 8DPSK, Ch0

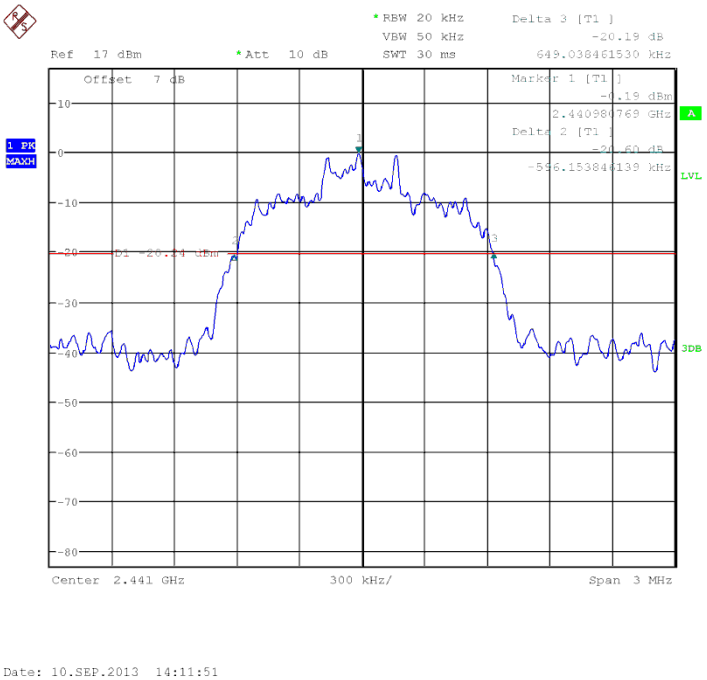


Fig.83 20dB Bandwidth: 8DPSK, Ch39

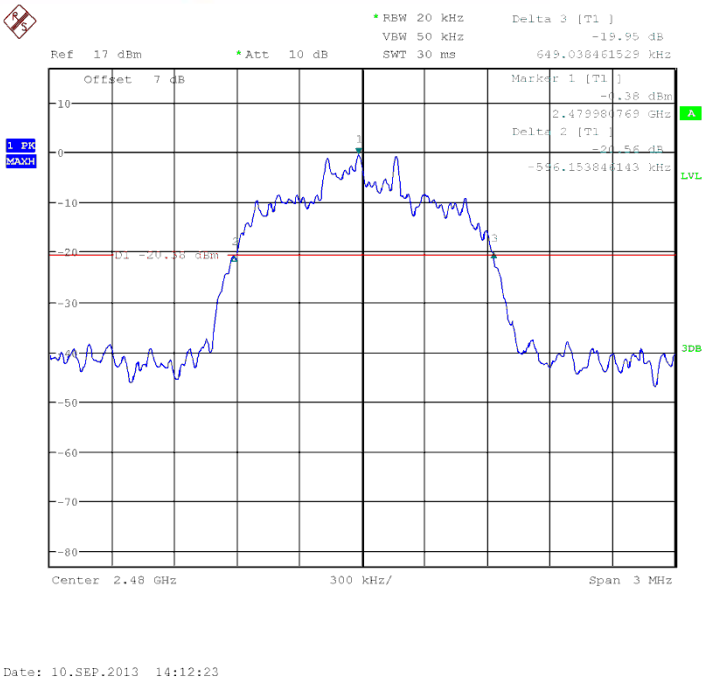


Fig.84 20dB Bandwidth: 8DPSK, Ch78

5.7. Carrier Frequency Separation

Measurement Limit:

Standard	Limit (KHz)
FCC 47 CFR Part 15.247 (a) (1)	Over 25KHz or (2/3)*20dB bandwidth

The measurement is according to Public notice DA 00-705 and ANSI C63.4.

Measurement Result:

For GFSK

Channel	Carrier separation (KHz)		Conclusion
39	Fig.85	1004.808	P

For π/4 DQPSK

Channel	Carrier separation (KHz)		Conclusion
39	Fig.86	971.154	P

For 8DPSK

Channel	Carrier separation (KHz)		Conclusion
39	Fig.87	1033.654	P

Conclusion: PASS

Test graphs as below:

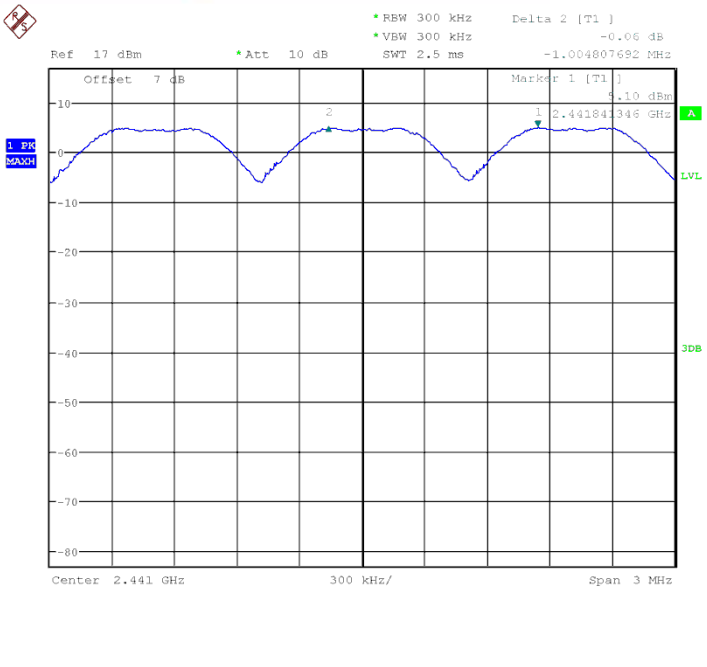


Fig.85 Carrier separation measurement: GFSK, Ch39

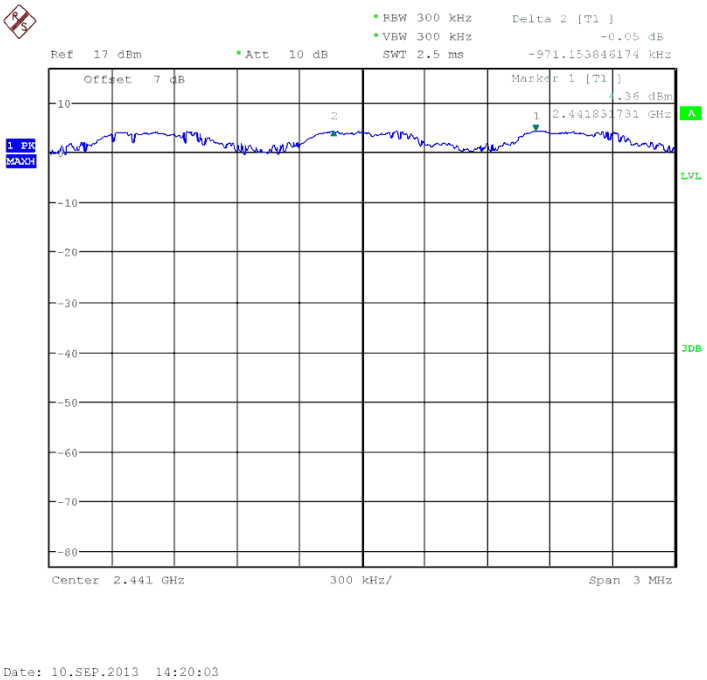


Fig.86 Carrier separation measurement: π/4 DQPSK, Ch39

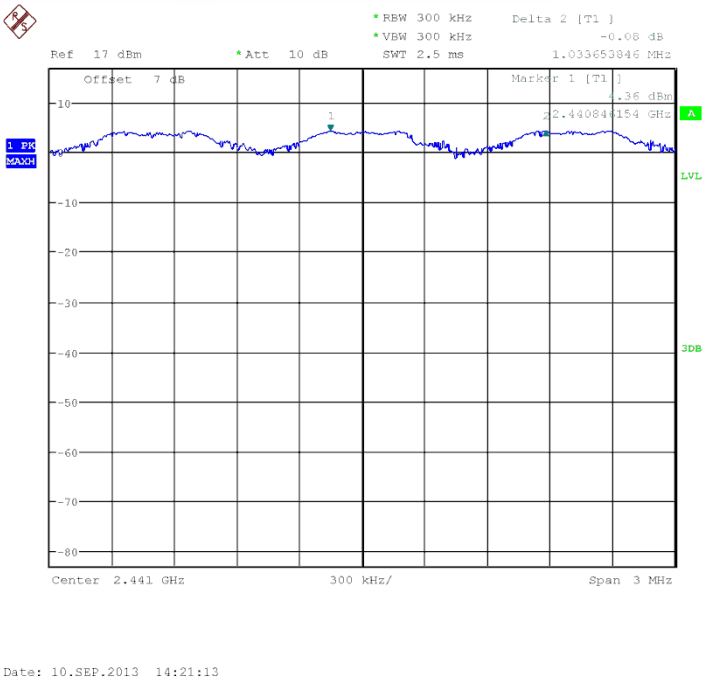


Fig.87 Carrier separation measurement: 8DPSK, Ch39

5.8. Number Of Hopping Channels

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (a)(1)(iii)	At least 15 non-overlapping channels

The measurement is according to Public notice DA 00-705 and ANSI C63.4.

Measurement Result:

For GFSK

Channel	Number of hopping channels		Conclusion
0~39	Fig.88	79	P
40~78	Fig.89		P

For π/4 DQPSK

Channel	Number of hopping channels		Conclusion
0~39	Fig.90	79	P
40~78	Fig.91		P

For 8DPSK

Channel	Number of hopping channels		Conclusion
0~39	Fig.92	79	P
40~78	Fig.93		P

Conclusion: PASS

Test graphs as below:

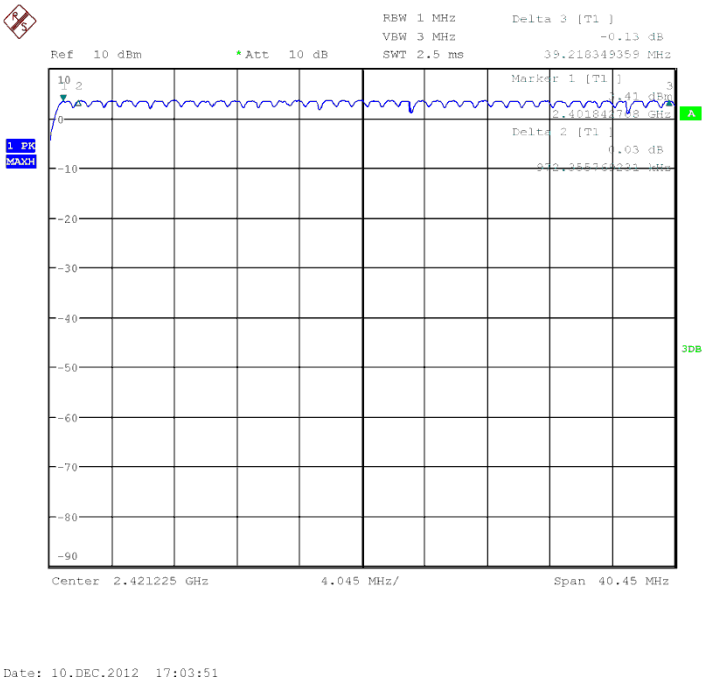


Fig.88 Number of hopping frequency: GFSK, Ch0~39

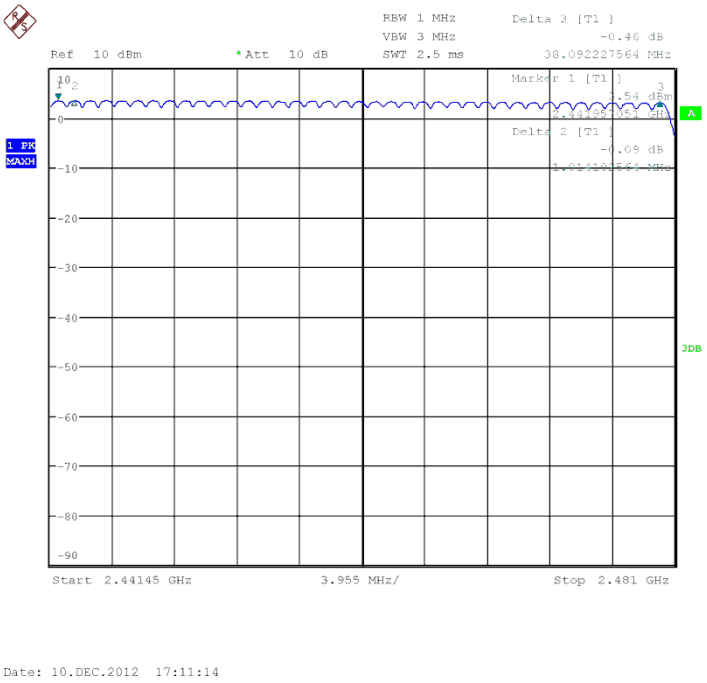


Fig.89 Number of hopping frequency: GFSK, Ch40~78

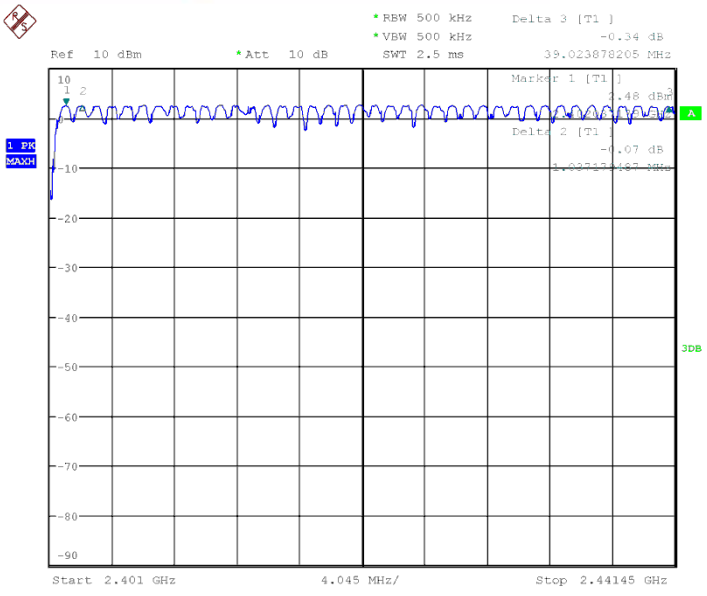


Fig.90 Number of hopping frequency: π/4 DQPSK, Ch0~39

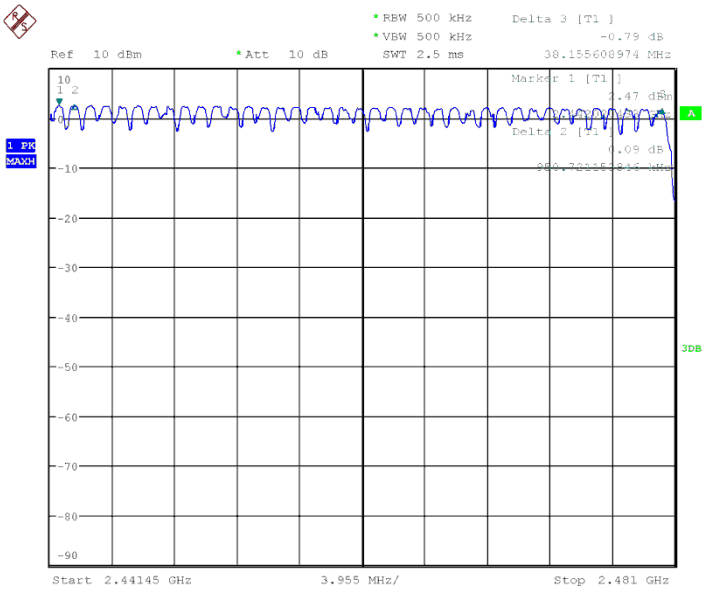


Fig.91 Number of hopping frequency: π/4 DQPSK, Ch40~78

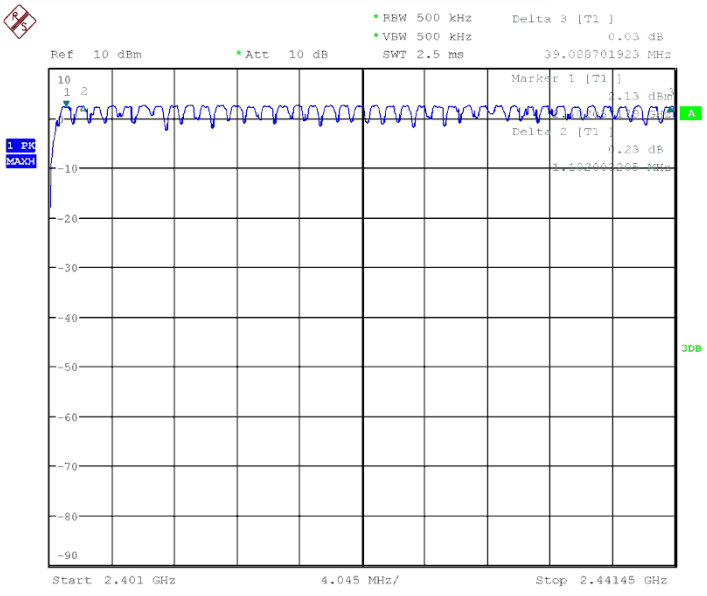


Fig.92 Number of hopping frequency: 8DPSK, Ch0~39

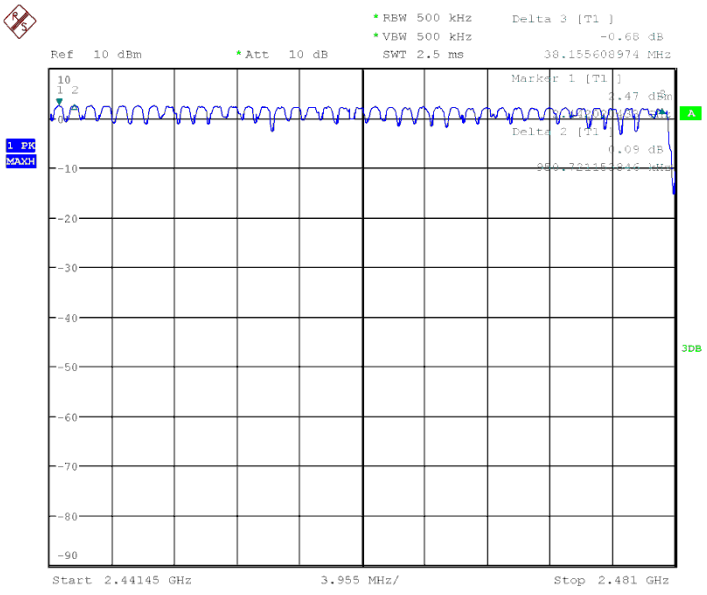


Fig.93 Number of hopping frequency: 8DPSK, Ch40~78

6. Test Equipments and Ancillaries Used For Tests

The test equipments and ancillaries used are as follows.

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSQ26	101096	Rohde&Schwarz	2014-08-30
2	DC Power Supply	ZUP60-14	LOC-220Z006	TDL-Lambda	2014-08-30
3	Bluetooth Tester	CBT32	100785	Rohde&Schwarz	2014-08-30

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Universal Radio Communication Tester	CMU200	123102	R&S	2014-08-30
2	Test Receiver	ESCI	101235	R&S	2014-08-30
3	Test Receiver	ESU40	100307	R&S	2014-10-29
4	Trilog Antenna	VULB9163	19-162515	Schwarzbeck	2014-11-11
5	Double Ridged Guide Antenna	ETS-3117	135885	ETS	2014-04-28
6	2-Line V-Network	ENV216	101380	R&S	2014-10-30

7	Single Phase Harmonic & Flicker	DPA500N	V1126109988	EM Test	2014-10-28
8	Multifunction AC/DC Power Source	Netwave7	V1126109989	EM Test	2014-10-28
9	Ultra Compact Simulator	UCS 500N7	V1126109983	EM Test	2014-07-22
10	Motorized Variac	MV 2616	V1126109987	EM Test	2014-07-22
11	Telecom Surge Module	TSurge7	V0902104582	EM Test	2014-07-22
12	Audio Analyzer	UPV	101950	R&S	2014-08-30
13	Power Meter	NRP2	101804	R&S	2014-08-30
14	Signal Generator	SMB 100A	105563	R&S	2014-08-30
15	ESD Test Simulator	Dito	V1126109982	EM Test	2014-10-31

Anechoic chamber

Fully anechoic chamber by Frankonia German.

7. Test Environment

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits

along the conducted RF performance testing:

Temperature	Min. = 15 ℃, Max. = 30 ℃
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 35 ℃
Relative humidity	Min. =30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber1 (6.8 meters×3.08 meters×3.53 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 30 ℃
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Fully-anechoic chamber2 (Tapered Section: 8.75 meters×3.66 meters×3.66 meters, Rectangular Section: 7.32 meters×3.97 meters×3.66 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 30 ℃
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 30MHz to 40000MHz

ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

ANNEX C Deviations from Prescribed Test Methods

ZTE中兴

ZTE CORPORATION

Product Change Description

Original FCC ID: SRQ-ZTEV795
New FCC ID: SRQ-ZTEKISQ

As the applicant of the below model, [ZTE Corporation] declares that the product,

[ZTE Kis Q]
[ZTE Corporation]

is the variant of the initial certified product,

[ZTE V795、ZTE Kis Q、ZTE Kis II]
[ZTE Corporation]
[Project Number:13ZTE148]

SOFTWARE MODIFICATIONS:
Protocol Stack changes: NO
MMS/STK changes: NO
JAVA changes: NO
Other changes detailed: yes
software version
IUS-MX-LTB25S-P172D02V1.0.0B01

HARDWARE MODIFICATION:
Band changes: no
Power Amplifier changes: no
Antenna changes: Yes
Chang new Main Antenna

PCB Layout changes: no
Components on PCB changes: no
LCD changes: no
Speaker changes: no
Camera changes: no
Vibrator changes: no

MECHANICAL MODIFICATIONS:

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Use new metal front/back cover or keypad:
Pictures
Change before:

Change after:

Mechanical shell changes: no

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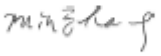
Other changes detailed: no

ACCESSORY MODIFICATIONS:

Battery changes: no

AC Adaptor changes: no

Earphone changes: no



APPROVED BY: Zhang Min

Project Manager: YiQing Huang

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