



FCC PART 15C TEST REPORT No. I14Z45138-GTE04

for

TCT Mobile Limited

UMTS triband/GSM quadband mobile phone

Model Name: Miata 3G

Marketing Name: 6016A

FCC ID: RAD463

with

Hardware Version: Proto

Software Version: v1AC4_US+Z2

Issued Date: 2014-03-31



DAR accreditation (DIN EN ISO/IEC 17025): No. D-PL-12123-01-01

FCC 2.948 Listed: No.733176

IC O.A.T.S listed: No.6629B-1

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 TMC Beijing.

Test Laboratory:

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1. Test Laboratory

1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT
Address: Shouxiang Science Building, No 51, Xueyuan Road, Haidian District,
Beijing, P.R.China
Postal Code: 100191
Telephone: 00861062304633
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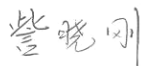
1.2. Testing Environment

Normal Temperature: 15-35℃
Relative Humidity: 20-75%

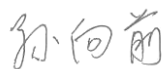
1.3. Project data

Project Leader: Zi Xiaogang
Testing Start Date: 2014-02-26
Testing End Date: 2014-03-20

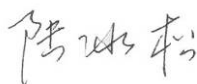
1.4. Signature



Zi Xiaogang
(Prepared this test report)



Sun Xiangqian
(Reviewed this test report)



Lu Bingsong
Deputy Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCT Mobile Limited
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City: Shanghai
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Country: China
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2.2. Manufacturer Information

Company Name: TCT Mobile Limited
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Pudong Area Shanghai, P.R. China.
City: Shanghai
Postal Code: 201203
Country: China
Telephone: 0086-21-61460890
Fax: 0086-21-61460602

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

3.1. About EUT

Description	UMTS triband/GSM quadband mobile phone
Model Name	Miata 3G
Marketing Name	6016A
FCC ID	RAD463
Frequency Band	ISM 2400MHz~2483.5MHz
Type of Modulation	GFSK/ $\pi/4$ DQPSK/8DPSK
Number of Channels	79
Power Supply	3.8V DC by Battery

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
UT17a	014027000000965	Proto	v1AC4_US+Z2
UT14a	014027000000817	Proto	v1AC4_US+Z2

*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		
AE1	Travel charger	/	TCT-CHR-1604
AE2	Travel charger	/	TCT-CHR-1603
AE3	Travel charger	/	TCT-CHR-1655
AE4	Travel charger	/	TCT-CHR-1658
AE5	USB cable	/	TCT-DC-0455
AE6	USB cable	/	TCT-DC-0337
AE7	USB cable	/	/
AE8	USB cable	/	/
AE9	Headset	/	/
AE10	Headset	/	/
AE11	Headset	/	/
AE12	Headset	/	/
AE13	battery	/	/
AE14	battery	/	/

AE1, AE2

Model	CBA3008AG0C1
Manufacturer	BYD
Length of cable	/

AE3, AE4

Model	CBA3008AG0C2
Manufacturer	Tenpao
Length of cable	/

AE5	
Model	CDA3122005C1
Manufacturer	Juwei
Length of cable	98.5 cm
AE6	
Model	CDA3122005C2
Manufacturer	Shenhua
Length of cable	98.5 cm
AE7	
Model	CDA3122002C2
Manufacturer	Shenhua
Length of cable	/
AE8	
Model	CDA3122002C1
Manufacturer	Juwei
Length of cable	/
AE9	
Model	CCB3160A11C4
Manufacturer	Meihao
Length of cable	/
AE10	
Model	CCB3160A11C1
Manufacturer	Juwei
Length of cable	/
AE11	
Model	CCB3160A15C4
Manufacturer	Meihao
Length of cable	/
AE12	
Model	CCB3160A15C1
Manufacturer	Juwei
Length of cable	/
AE13	
Model	CAC1700001C1
Manufacturer	BYD
Capacitance	1700 mAh
Nominal voltage	3.8V
AE14	
Model	CAC1700003C2
Manufacturer	SCUD
Capacitance	1700 mAh
Nominal voltage	3.8V

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

3.4. Normal Accessory setting

Fully charged battery should be used during the test.

3.5. General Description

The Equipment Under Test (EUT) is a model of UMTS triband/GSM quadband mobile phone with integrated antenna. It consists of normal options: lithium battery, charger. Manual and specifications of the EUT were provided to fulfil the test.

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

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

FCC CFR 47, Part 15, Subpart C:		
FCC Part15	15.205 Restricted bands of operation;	10-1-13
	15.209 Radiated emission limits, general requirements;	
	15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	
ANSI C63.10	American National Standard for Testing Unlicensed Wireless Devices	2009
FCC Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations	10–1–13

5. LABORATORY ENVIRONMENT

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

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber 2 (8.6 meters×6.1 meters×3.85 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 1 Ω
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 4000 MHz

Semi-anechoic chamber 2 / Fully-anechoic chamber 3 (10 meters×6.7 meters×6.15 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.5 dB, 3 m distance
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

Abbreviations used in this clause:

- P** Pass, The EUT complies with the essential requirements in the standard.
F Fail, The EUT does not comply with the essential requirements in the standard
NA Not Applicable, The test was not applicable
NP Not Performed, The test was not performed by TMC

SUMMARY OF MEASUREMENT RESULTS	Sub-clause	Verdict
Peak Output Power - Conducted	15.247 (b)(1)	P
Frequency Band Edges	15.247 (d)	P
Conducted Emission	15.247 (d)	P
Radiated Emission	15.247, 15.205, 15.209	P
Time of Occupancy (Dwell Time)	15.247 (a) (1)(iii)	P
20dB Bandwidth	15.247 (a)(1)	NA
Carrier Frequency Separation	15.247 (a)(1)	P
Number of hopping channels	15.247 (a)(b)(iii)	P
AC Powerline Conducted Emission	15.107, 15.207	P

Please refer to **ANNEX A** for detail.

The measurement is made according to ANSI C63.10.

6.2. Statements

TMC has evaluated the test cases requested by the applicant /manufacturer as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.2

7. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSU26	200030	Rohde & Schwarz	2014-06-12
2	Bluetooth Tester	CBT32	100649	Rohde & Schwarz	2015-02-09

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESU26	100376	Rohde & Schwarz	2014-11-05
2	EMI Antenna	VULB 9163	9163 175	Schwarzbeck	2014-07-13
3	EMI Antenna	3117	00119021	ETS-Lindgren	2014-04-19
4	Dual-Ridge Waveguide Horn Antenna	3116	2663	ETS-Lindgren	2014-06-30
5	Dual-Ridge Waveguide Horn Antenna	3116	2661	ETS-Lindgren	2014-06-30
6	Bluetooth Tester	CBT	100153	Rohde & Schwarz	2014-09-15
7	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2014-04-14
8	Loop Antenna	HFH2-Z2	829324/007	Rohde & Schwarz	2014-12-12
9	Pre-amplifier(18GHz)	SCU18	1005277	Rohde & Schwarz	/
10	Pre-amplifier(26.5GHz)	SCU26	1006788	Rohde & Schwarz	/

Anechoic chamber

Fully anechoic chamber by Frankonia German.

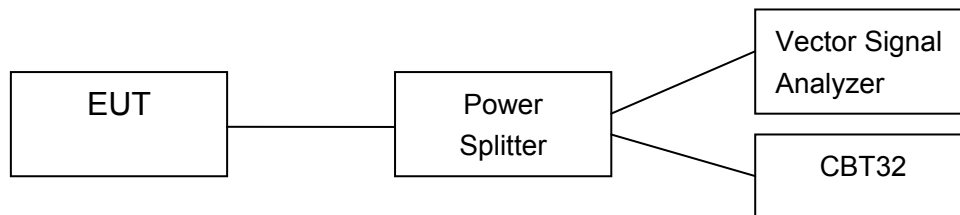
ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

The measurement is made according to ANSI C63.10.

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode (Transmitter, receiver or transmitter & receiver).
- 3). Set the EUT to the required channel.
- 4). Set the EUT hopping mode (hopping or hopping off).
- 5). Set the spectrum analyzer to start measurement.
- 6). Record the values. Vector Signal Analyzer



A.1.2. Radiated Emission Measurements

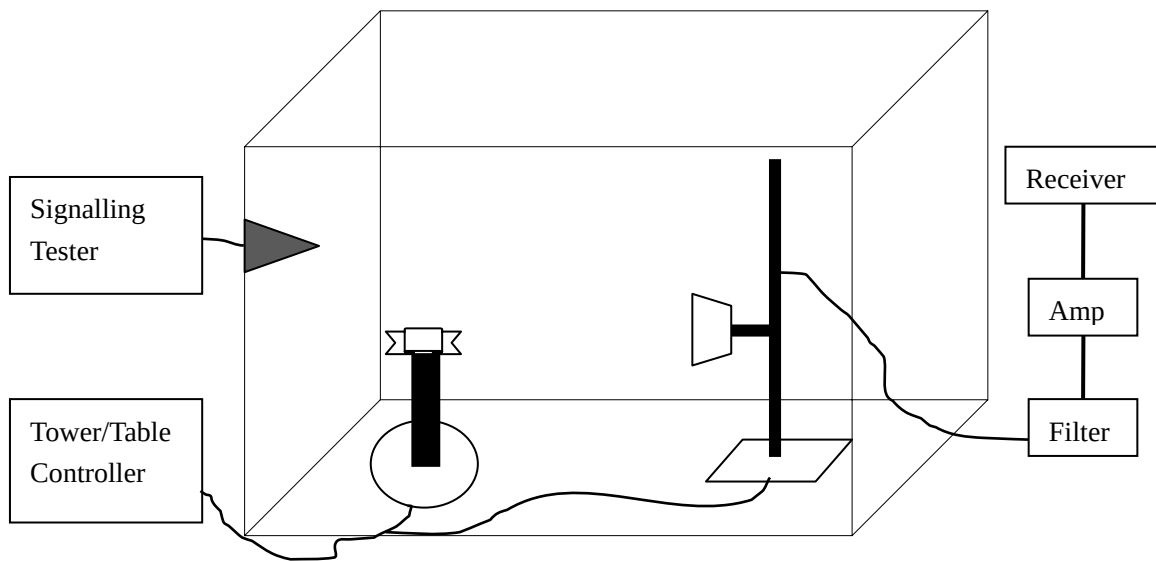
The measurement is made according to ANSI C63.10

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 1MHz;



A.2. Peak Output Power - Conducted

Measurement Limit:

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

The measurement is made according to ANSI C63.10.

Test Condition

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

Measurement Results:

For GFSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	8.19	8.53	9.07	P

For $\pi/4$ DQPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	9.14	9.39	9.95	P

For 8DPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	9.54	9.64	10.21	P

Conclusion: PASS

A.3. Frequency Band Edges - Conducted

Measurement Limit:

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

The measurement is made according to ANSI C63.10.

Measurement Result:

For GFSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.1	-57.19	P
	Hopping ON	Fig.2	-57.62	P
78	Hopping OFF	Fig.3	-60.88	P
	Hopping ON	Fig.4	-63.62	P

For $\pi/4$ DQPSK

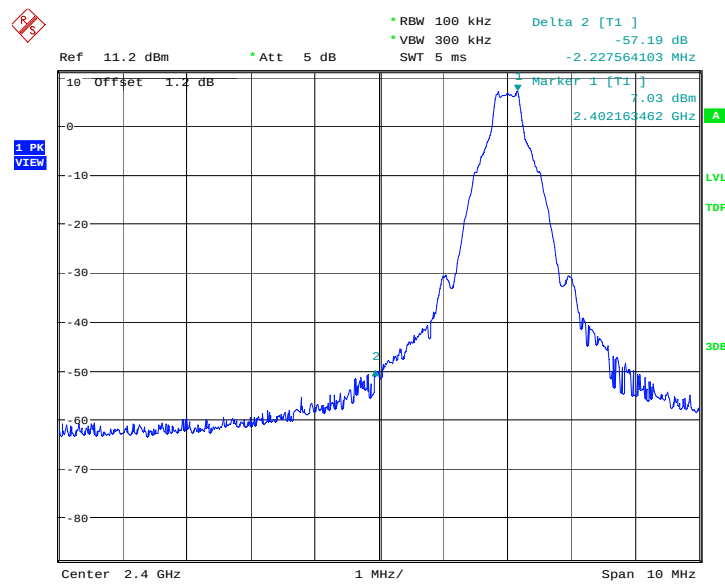
Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.5	-55.20	P
	Hopping ON	Fig.6	-57.18	P
78	Hopping OFF	Fig.7	-63.19	P
	Hopping ON	Fig.8	-63.39	P

For 8DPSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.9	-57.97	P
	Hopping ON	Fig.10	-57.70	P
78	Hopping OFF	Fig.11	-63.06	P
	Hopping ON	Fig.12	-64.85	P

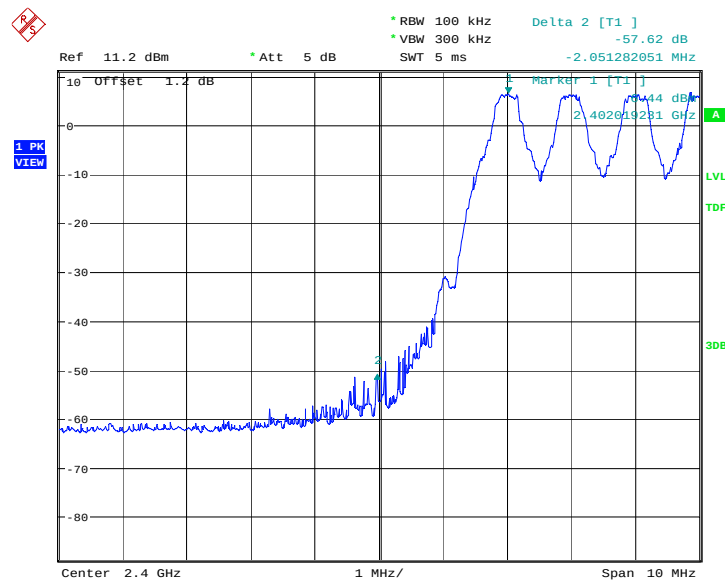
Conclusion: PASS

Test graphs as below



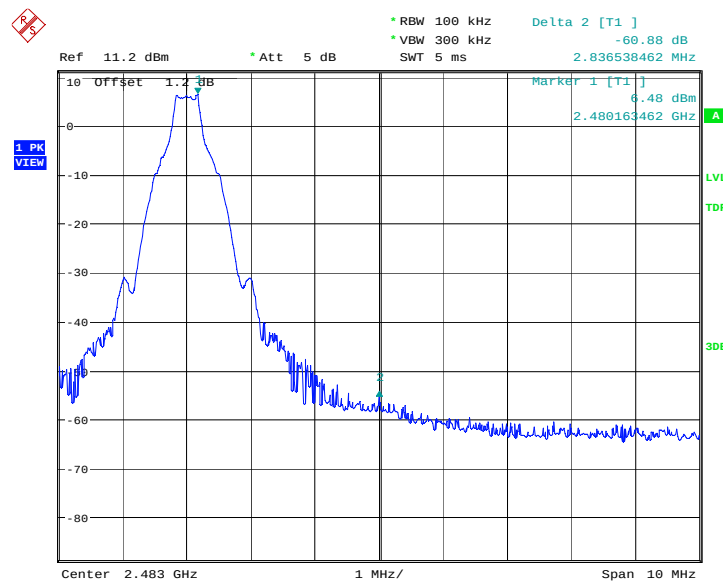
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Fig.1. Frequency Band Edges: GFSK, Channel 0, Hopping Off



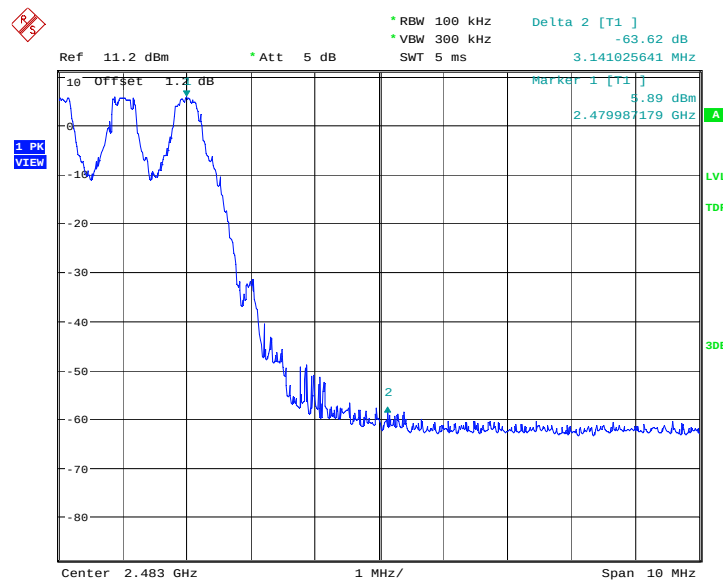
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Fig.2. Frequency Band Edges: GFSK, Channel 0, Hopping On



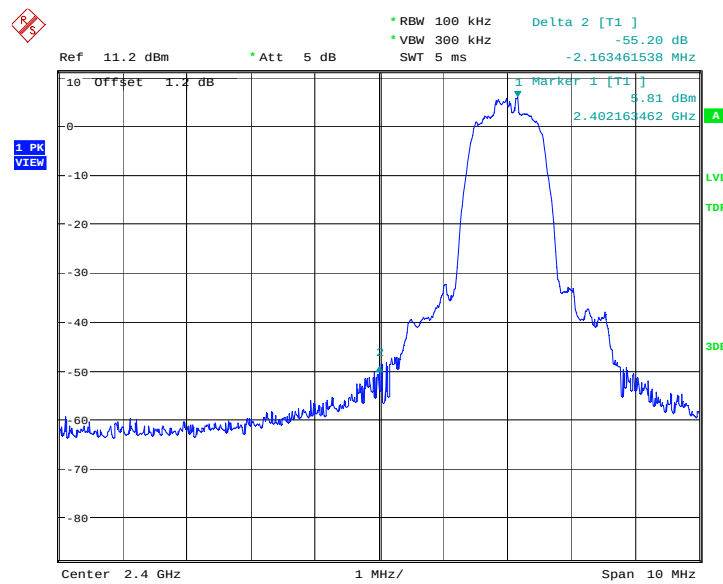
Date: 21.FEB.2014 17:05:03

Fig.3. Frequency Band Edges: GFSK, Channel 78, Hopping Off



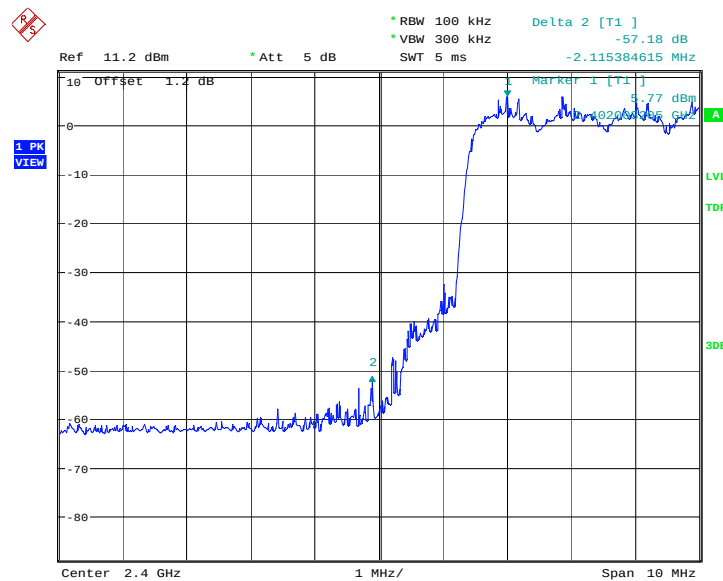
Date: 21.FEB.2014 17:09:09

Fig.4. Frequency Band Edges: GFSK, Channel 78, Hopping On



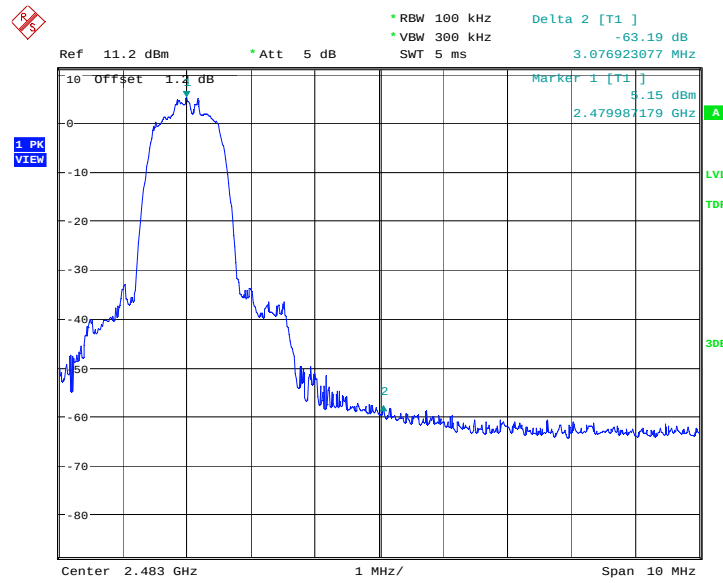
Date: 21.FEB.2014 17:25:27

Fig.5. Frequency Band Edges: $\pi/4$ DQPSK, Channel 0, Hopping Off



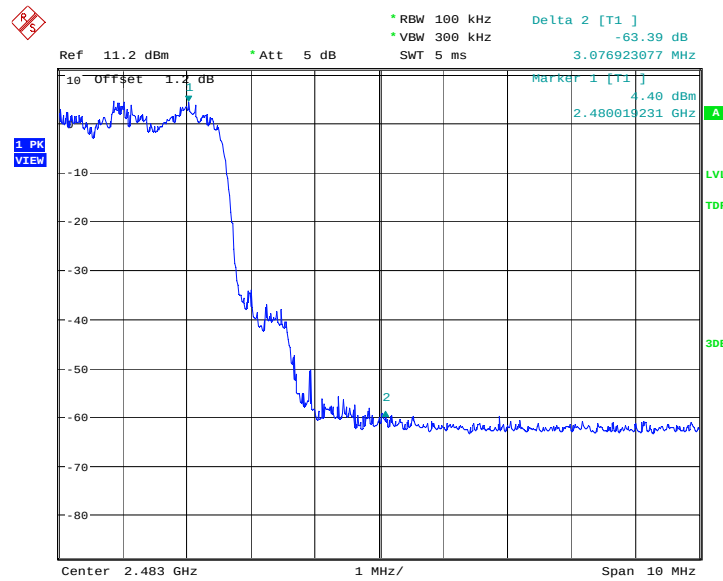
Date: 21.FEB.2014 17:27:47

Fig.6. Frequency Band Edges: $\pi/4$ DQPSK, Channel 0, Hopping On



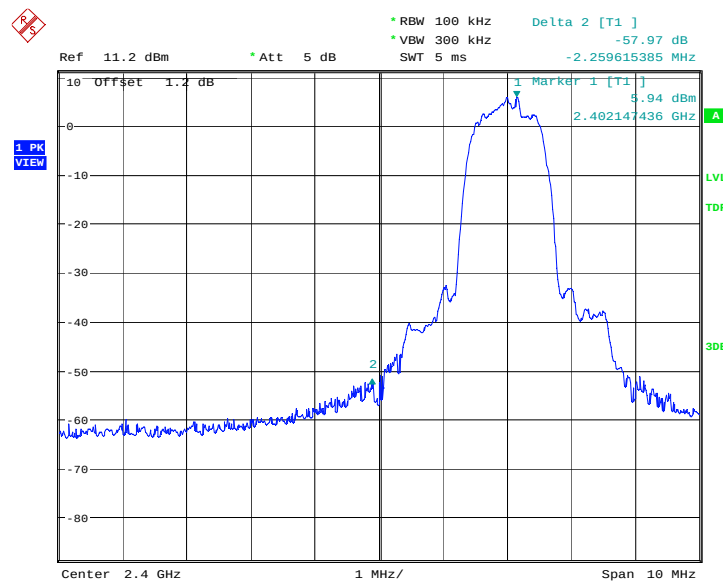
Date: 21.FEB.2014 17:25:44

Fig.7. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, Hopping Off



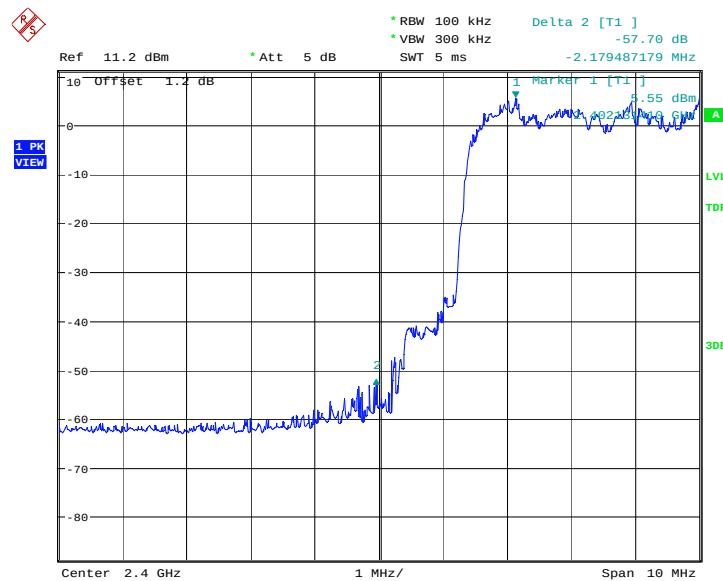
Date: 21.FEB.2014 17:29:50

Fig.8. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, Hopping On



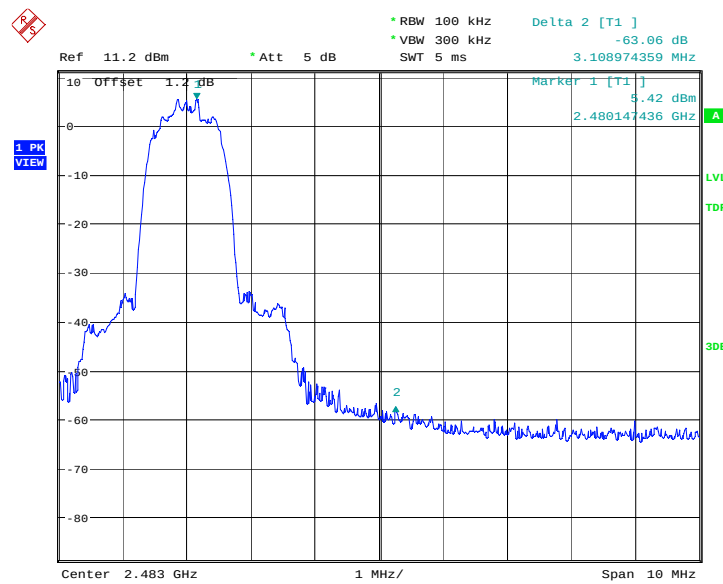
Date: 21.FEB.2014 17:46:58

Fig.9. Frequency Band Edges: 8DPSK, Channel 0, Hopping Off



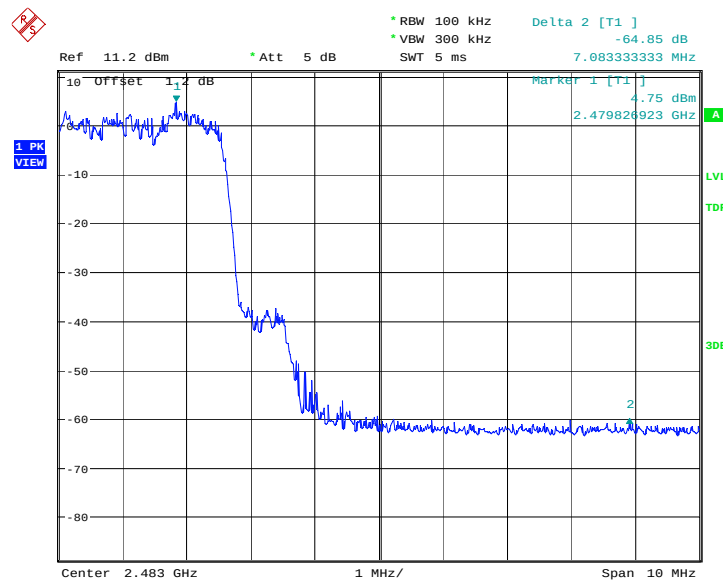
Date: 21.FEB.2014 17:49:18

Fig.10. Frequency Band Edges: 8DPSK, Channel 0, Hopping On



Date: 21.FEB.2014 17:47:15

Fig.11. Frequency Band Edges: 8DPSK, Channel 78, Hopping Off



Date: 21.FEB.2014 17:51:20

Fig.12. Frequency Band Edges: 8DPSK, Channel 78, Hopping On

A.4. Conducted Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

The measurement is made according to ANSI C63.10

Measurement Results:

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	Center Frequency	Fig.13	P
	30 MHz ~ 1 GHz	Fig.14	P
	1 GHz ~ 3 GHz	Fig.15	P
	3 GHz ~ 10 GHz	Fig.16	P
	10 GHz ~ 26 GHz	Fig.17	P
Ch 39 2441 MHz	Center Frequency	Fig.18	P
	30 MHz ~ 1 GHz	Fig.19	P
	1 GHz ~ 3 GHz	Fig.20	P
	3 GHz ~ 10 GHz	Fig.21	P
	10 GHz ~ 26 GHz	Fig.22	P
Ch 78 2480 MHz	Center Frequency	Fig.23	P
	30 MHz ~ 1 GHz	Fig.24	P
	1 GHz ~ 3 GHz	Fig.25	P
	3 GHz ~ 10 GHz	Fig.26	P
	10 GHz ~ 26 GHz	Fig.27	P

For $\pi/4$ DQPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	Center Frequency	Fig.28	P
	30 MHz ~ 1 GHz	Fig.29	P
	1 GHz ~ 3 GHz	Fig.30	P
	3 GHz ~ 10 GHz	Fig.31	P
	10 GHz ~ 26 GHz	Fig.32	P
Ch 39 2441 MHz	Center Frequency	Fig.33	P
	30 MHz ~ 1 GHz	Fig.34	P
	1 GHz ~ 3 GHz	Fig.35	P
	3 GHz ~ 10 GHz	Fig.36	P
	10 GHz ~ 26 GHz	Fig.37	P
Ch 78 2480 MHz	Center Frequency	Fig.38	P
	30 MHz ~ 1 GHz	Fig.39	P

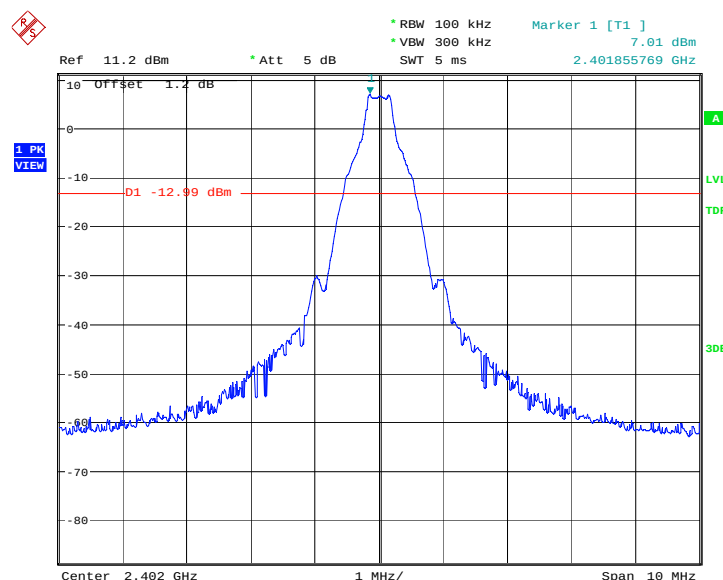
	1 GHz ~ 3 GHz	Fig.40	P
	3 GHz ~ 10 GHz	Fig.41	P
	10 GHz ~ 26 GHz	Fig.42	P

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	Center Frequency	Fig.43	P
	30 MHz ~ 1 GHz	Fig.44	P
	1 GHz ~ 3 GHz	Fig.45	P
	3 GHz ~ 10 GHz	Fig.46	P
	10 GHz ~ 26 GHz	Fig.47	P
Ch 39 2441 MHz	Center Frequency	Fig.48	P
	30 MHz ~ 1 GHz	Fig.49	P
	1 GHz ~ 3 GHz	Fig.50	P
	3 GHz ~ 10 GHz	Fig.51	P
	10 GHz ~ 26 GHz	Fig.52	P
Ch 78 2480 MHz	Center Frequency	Fig.53	P
	30 MHz ~ 1 GHz	Fig.54	P
	1 GHz ~ 3 GHz	Fig.55	P
	3 GHz ~ 10 GHz	Fig.56	P
	10 GHz ~ 26 GHz	Fig.57	P

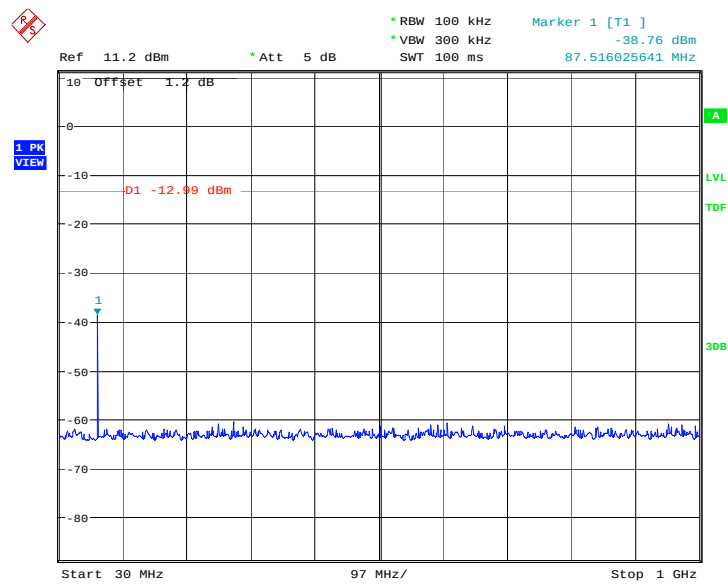
Conclusion: PASS

Test graphs as below



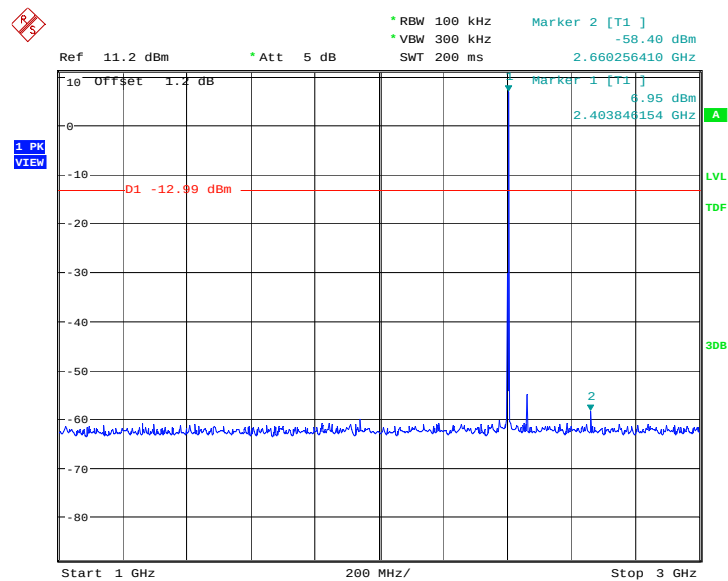
Date: 21.FEB.2014 17:09:27

Fig.13. Conducted spurious emission: GFSK, Channel 0,2402MHz



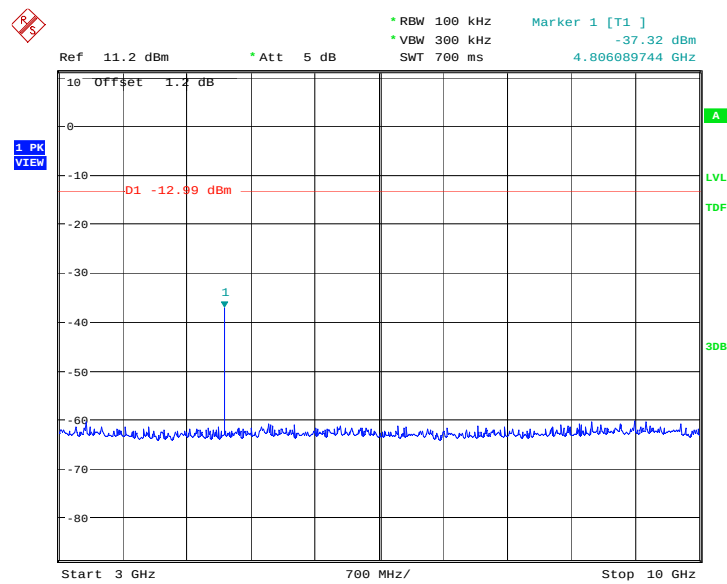
Date: 21.FEB.2014 17:09:44

Fig.14. Conducted spurious emission: GFSK, Channel 0, 30MHz - 1GHz



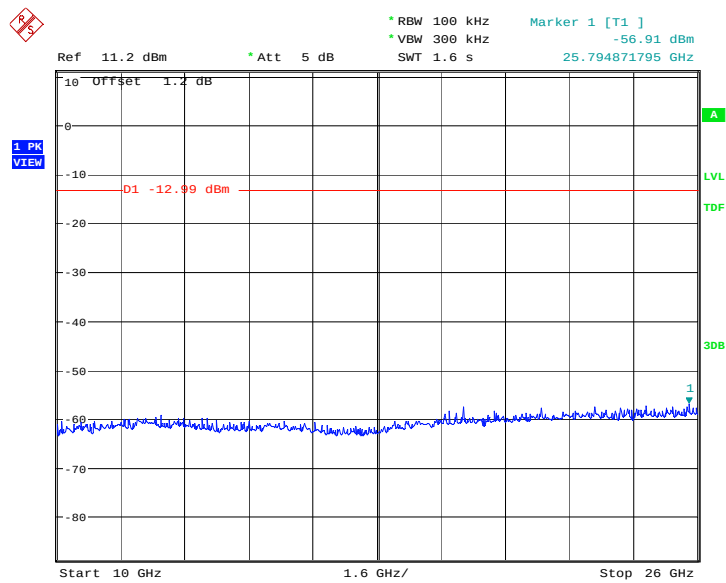
Date: 21.FEB.2014 17:10:15

Fig.15. Conducted spurious emission: GFSK, Channel 0, 1GHz - 3GHz



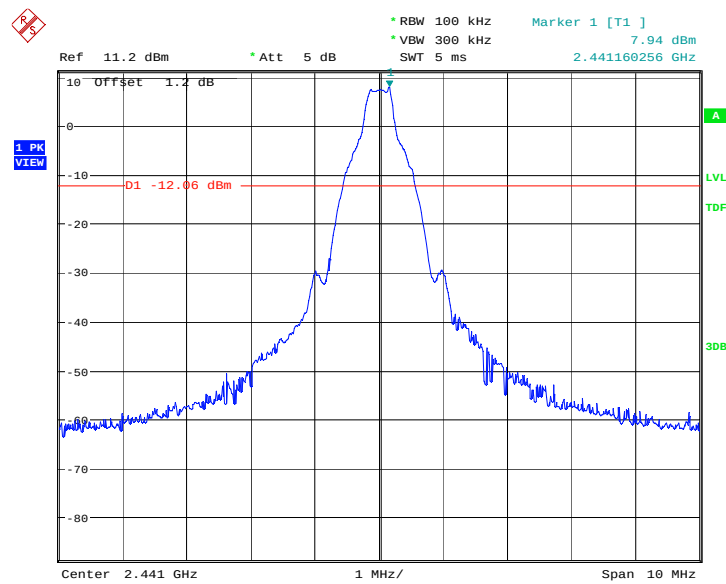
Date: 21.FEB.2014 17:10:32

Fig.16. Conducted spurious emission: GFSK, Channel 0, 3GHz - 10GHz



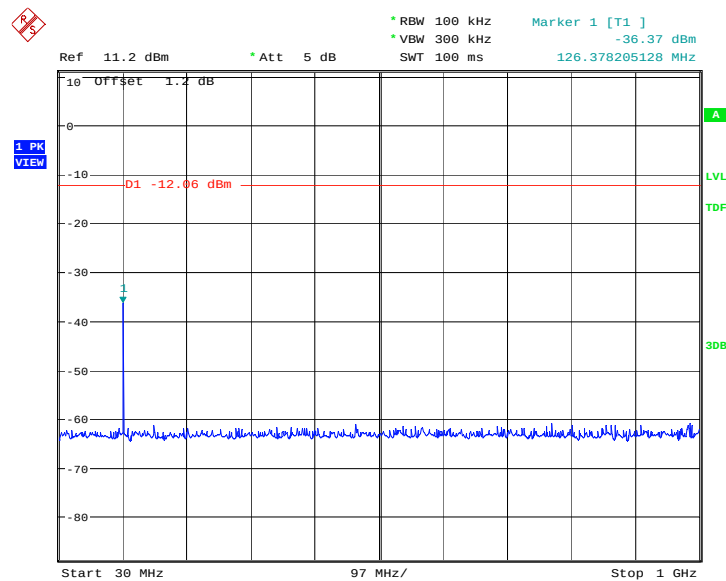
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Fig.17. Conducted spurious emission: GFSK, Channel 0, 10GHz - 26GHz



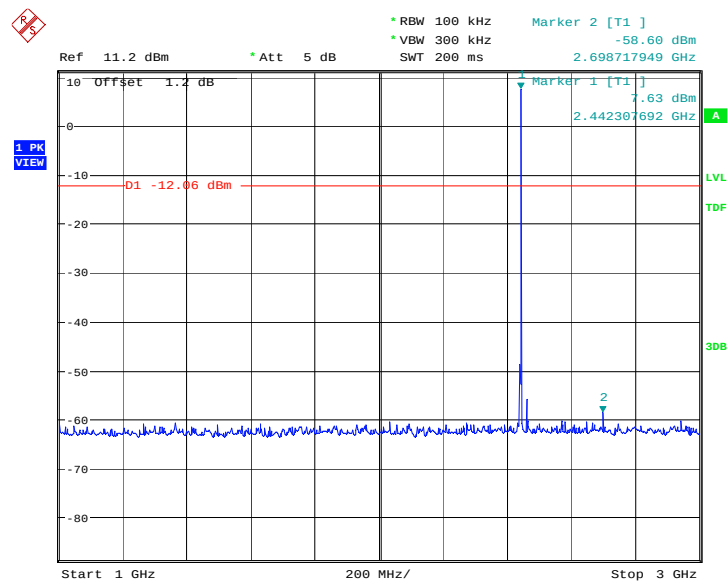
Date: 21.FEB.2014 17:11:05

Fig.18. Conducted spurious emission: GFSK, Channel 39, 2441MHz



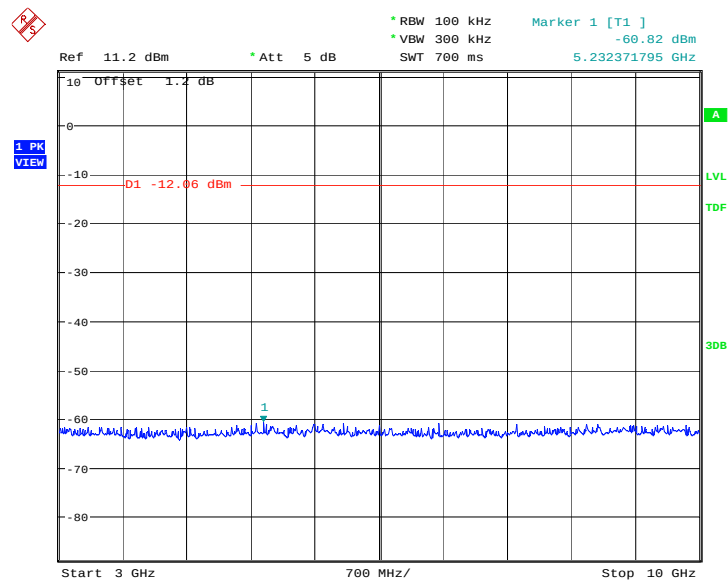
Date: 21.FEB.2014 17:11:22

Fig.19. Conducted spurious emission: GFSK, Channel 39, 30MHz - 1GHz



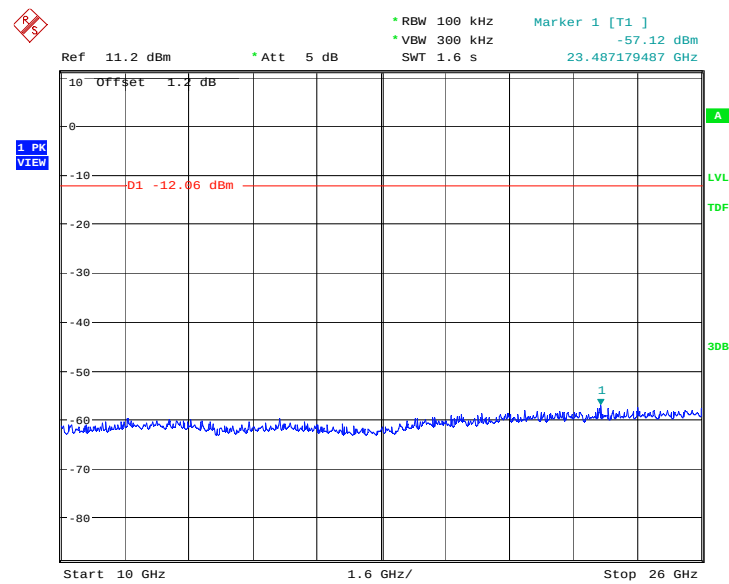
Date: 21.FEB.2014 17:11:54

Fig.20. Conducted spurious emission: GFSK, Channel 39, 1GHz – 3GHz



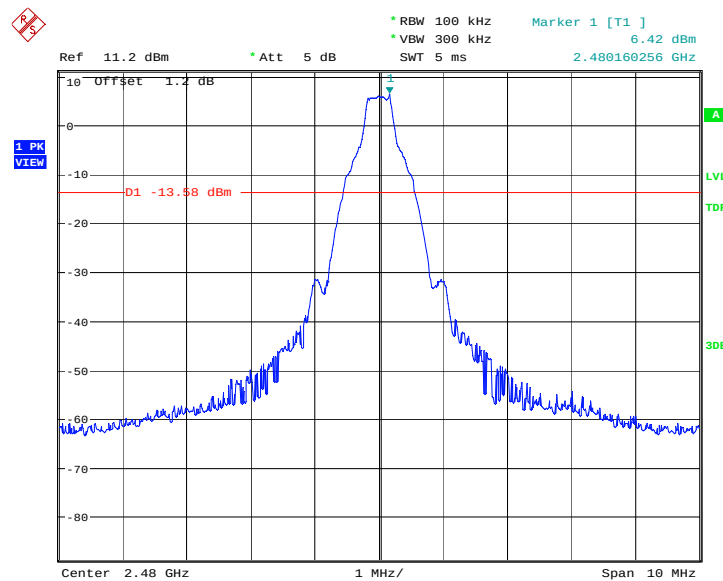
Date: 21.FEB.2014 17:12:10

Fig.21. Conducted spurious emission: GFSK, Channel 39, 3GHz – 10GHz



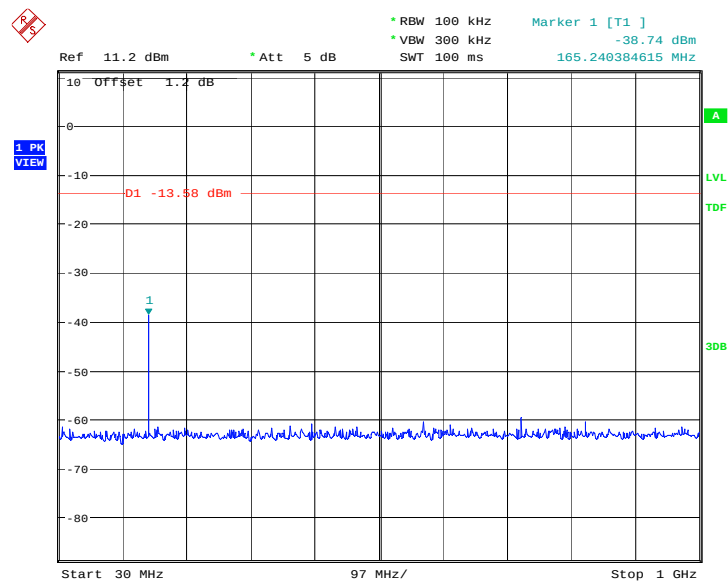
Date: 21.FEB.2014 17:12:27

Fig.22. Conducted spurious emission: GFSK, Channel 39, 10GHz – 26GHz



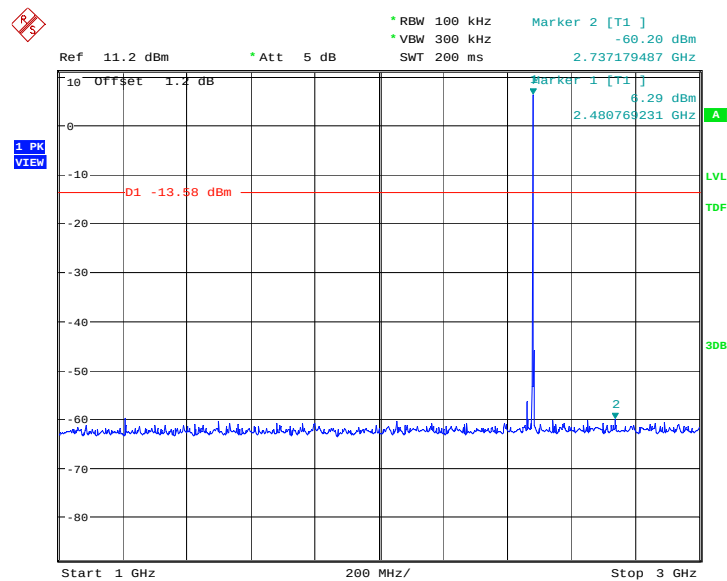
Date: 21.FEB.2014 17:12:43

Fig.23. Conducted spurious emission: GFSK, Channel 78, 2480MHz



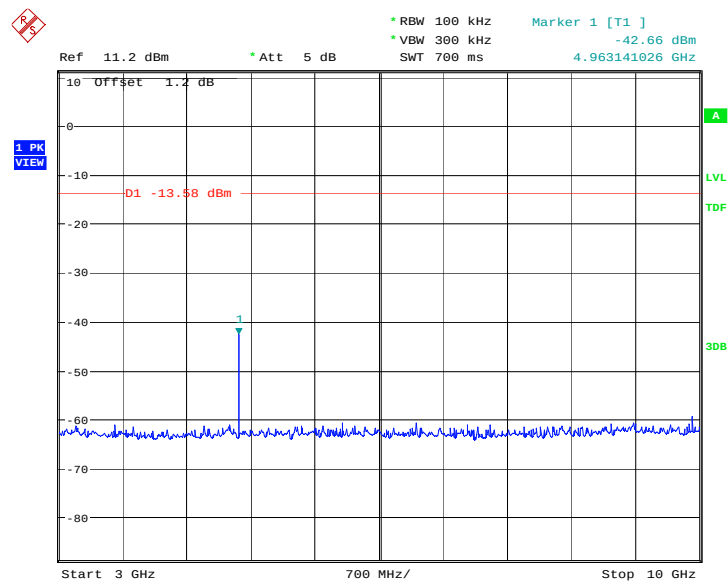
Date: 21.FEB.2014 17:13:00

Fig.24. Conducted spurious emission: GFSK, Channel 78, 30MHz - 1GHz



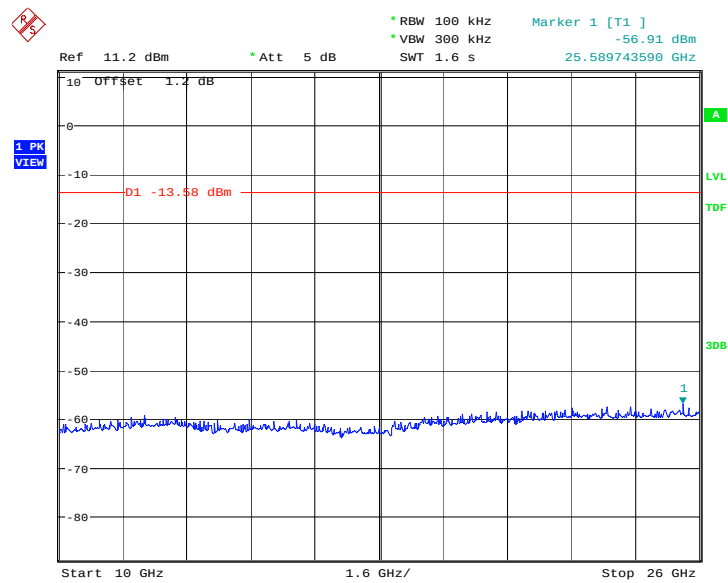
Date: 21.FEB.2014 17:13:32

Fig.25. Conducted spurious emission: GFSK, Channel 78, 1GHz - 3GHz



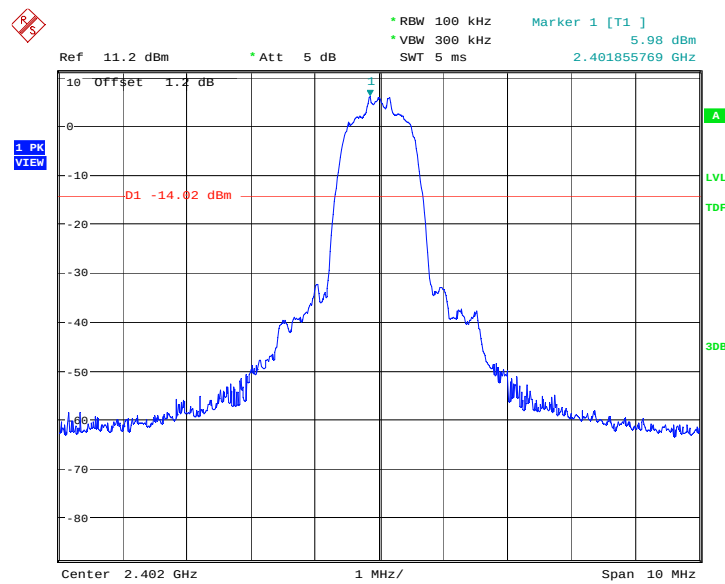
Date: 21.FEB.2014 17:13:48

Fig.26. Conducted spurious emission: GFSK, Channel 78, 3GHz - 10GHz



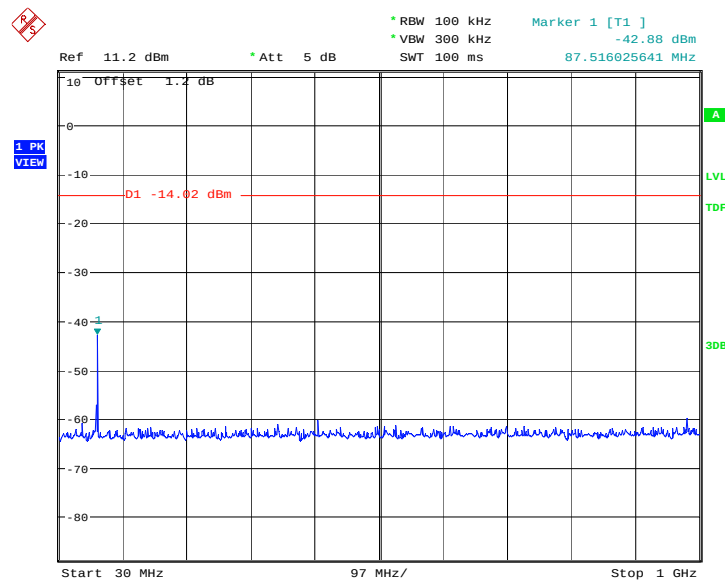
Date: 21.FEB.2014 17:14:05

Fig.27. Conducted spurious emission: GFSK, Channel 78, 10GHz - 26GHz



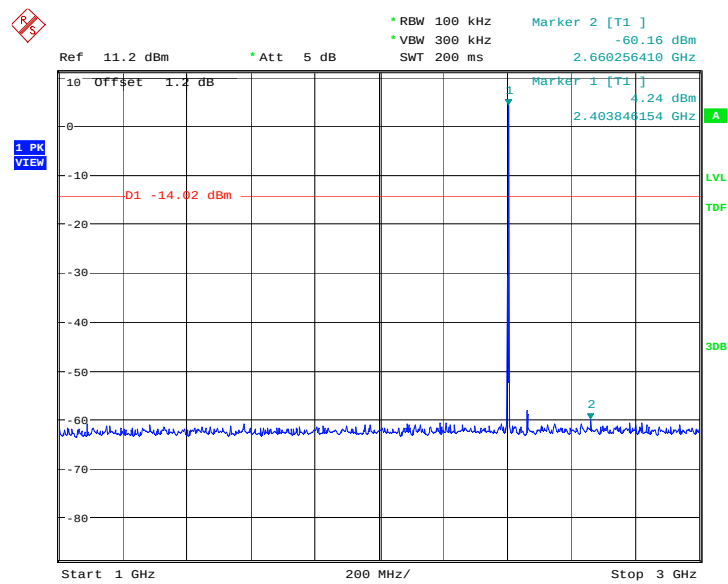
Date: 21.FEB.2014 17:30:09

Fig.28. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0,2402MHz



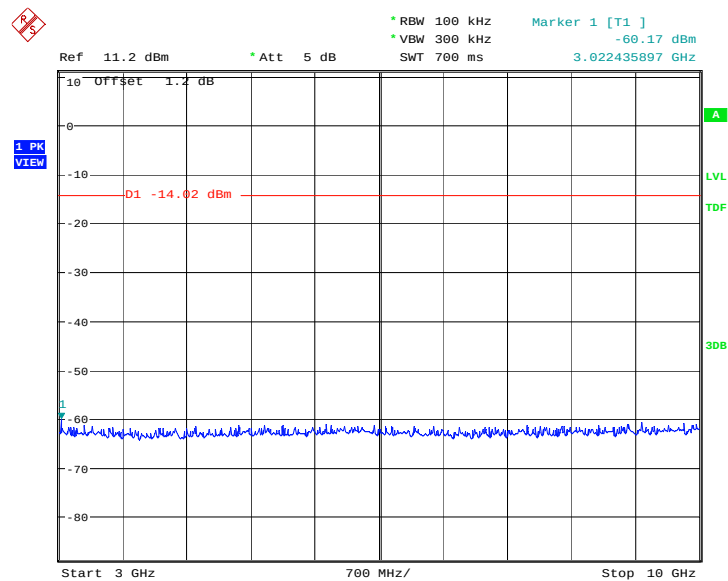
Date: 21.FEB.2014 17:30:25

Fig.29. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 30MHz - 1GHz



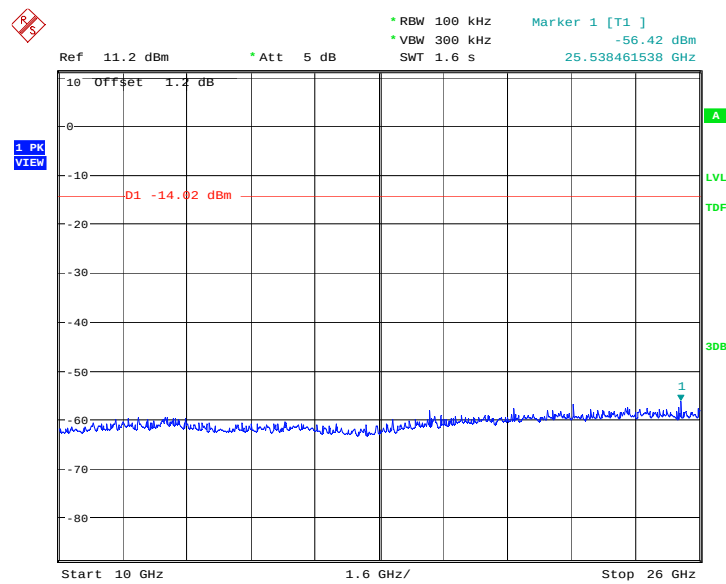
Date: 21.FEB.2014 17:30:57

Fig.30. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 1GHz - 3GHz



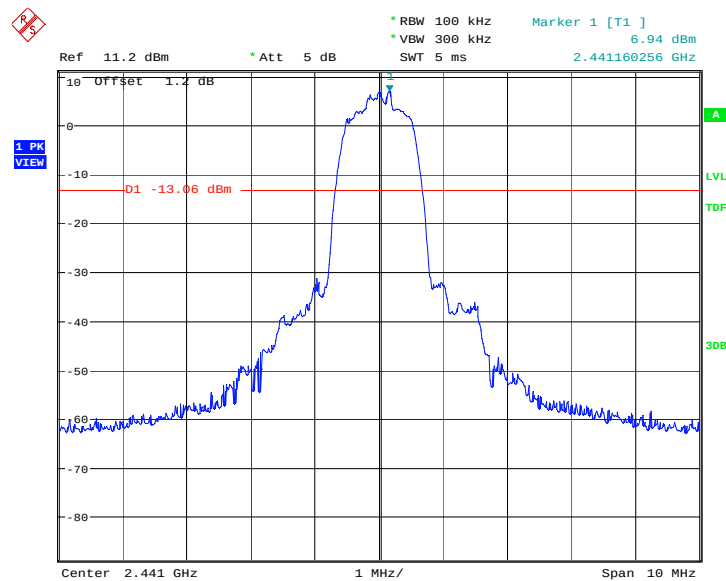
Date: 21.FEB.2014 17:31:14

Fig.31. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 3GHz - 10GHz



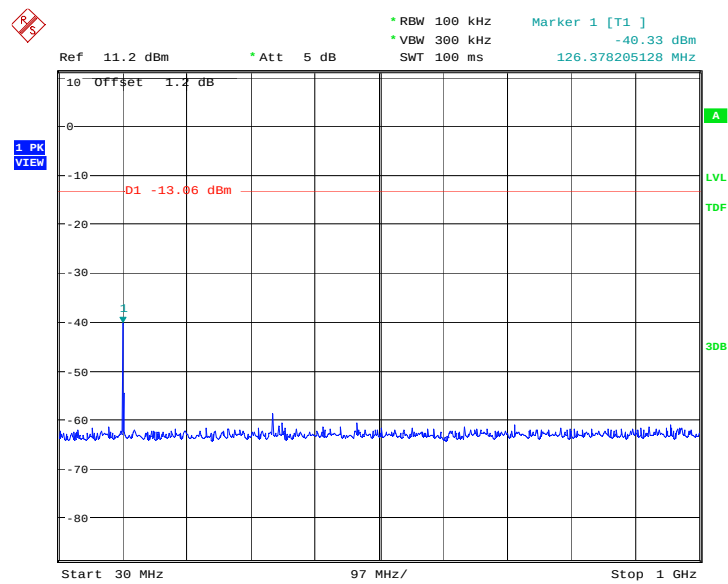
Date: 21.FEB.2014 17:31:30

Fig.32. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 10GHz - 26GHz



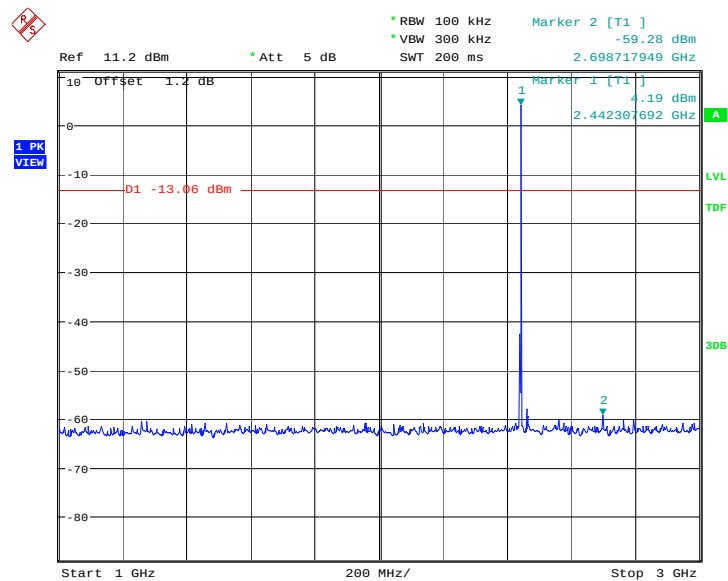
Date: 21.FEB.2014 17:31:47

Fig.33. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 2441MHz



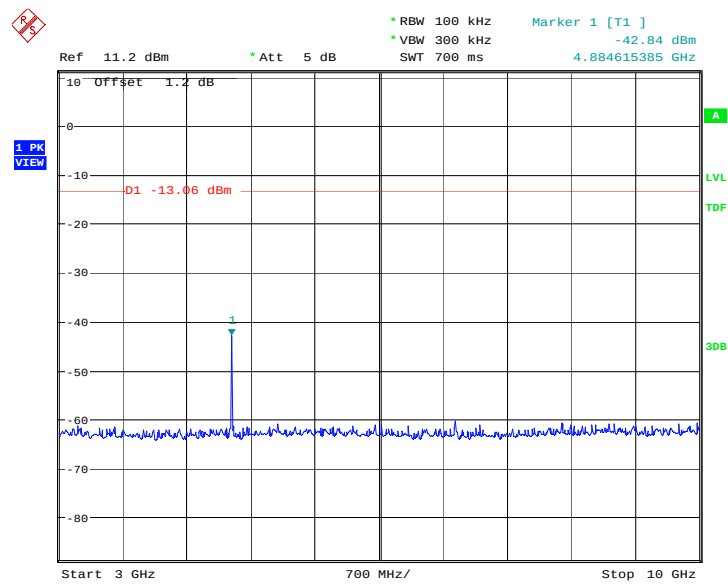
Date: 21.FEB.2014 17:32:04

Fig.34. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 30MHz - 1GHz



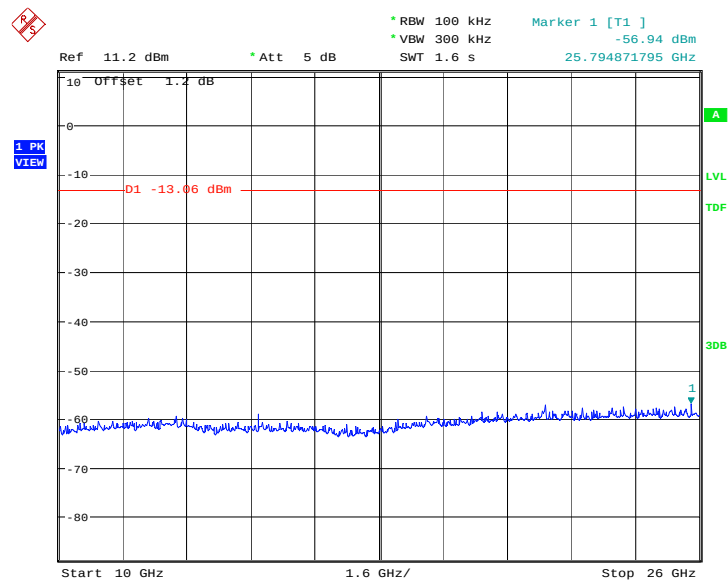
Date: 21.FEB.2014 17:32:35

Fig.35. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 1GHz - 3GHz



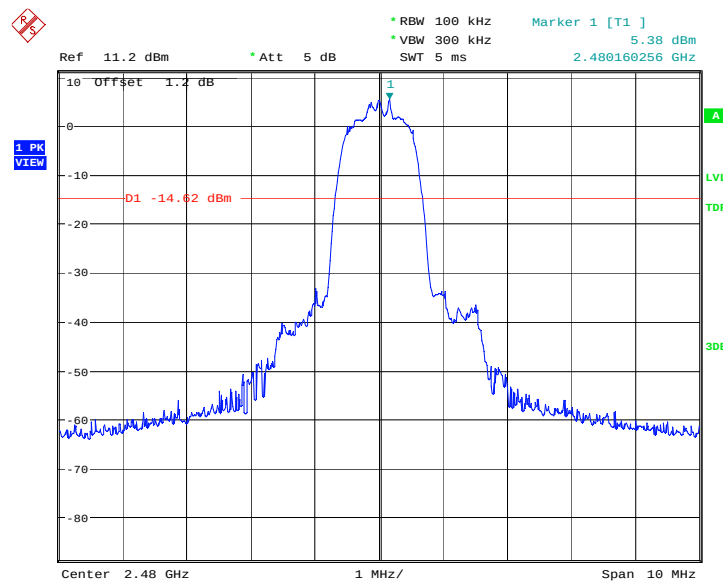
Date: 21.FEB.2014 17:32:52

Fig.36. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 3GHz - 10GHz



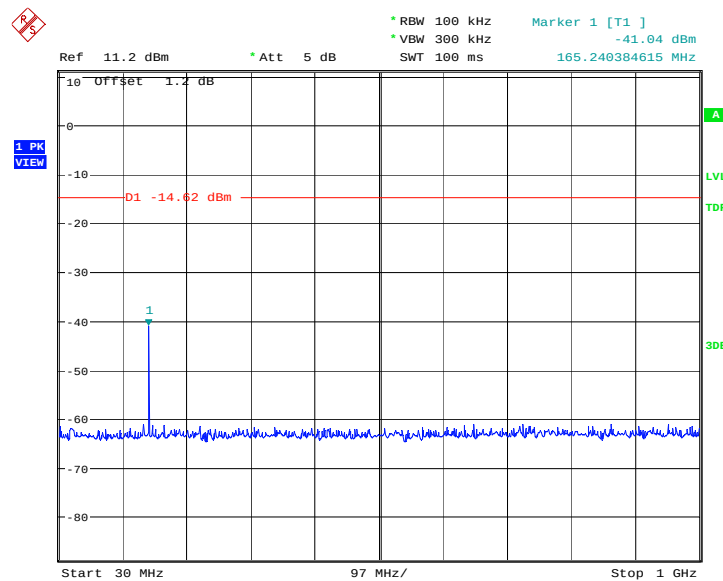
Date: 21.FEB.2014 17:33:08

Fig.37. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 10GHz – 26GHz



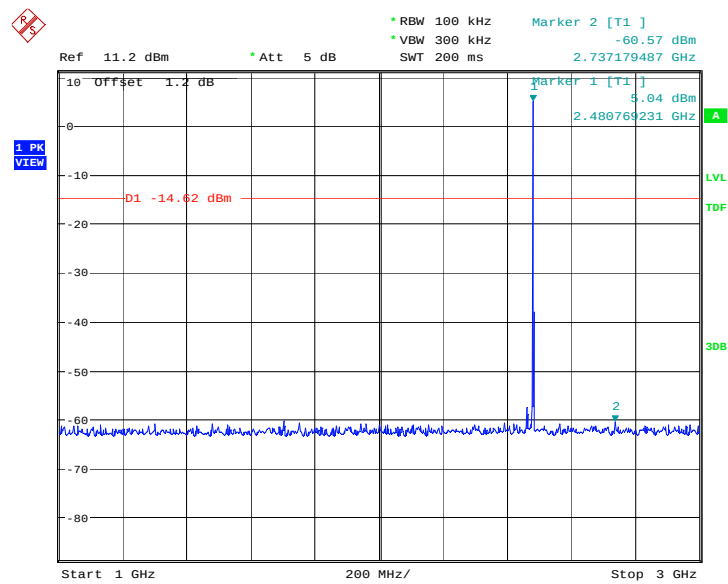
Date: 21.FEB.2014 17:33:25

Fig.38. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 2480MHz



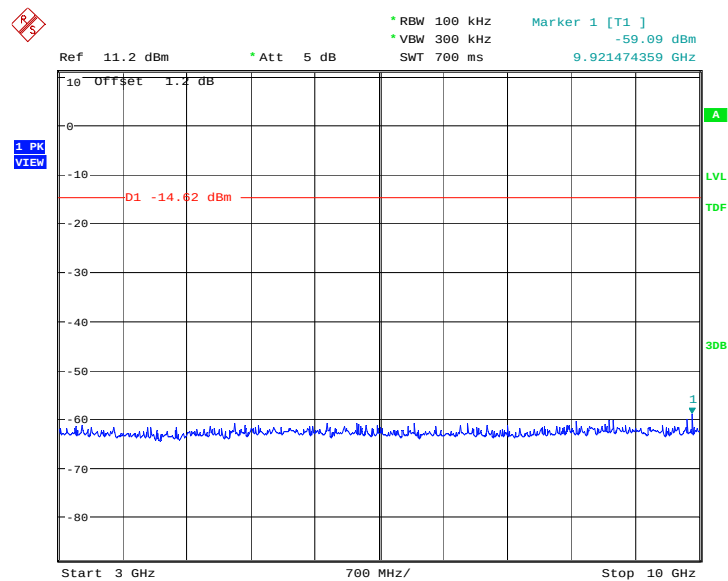
Date: 21.FEB.2014 17:33:42

Fig.39. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 30MHz - 1GHz



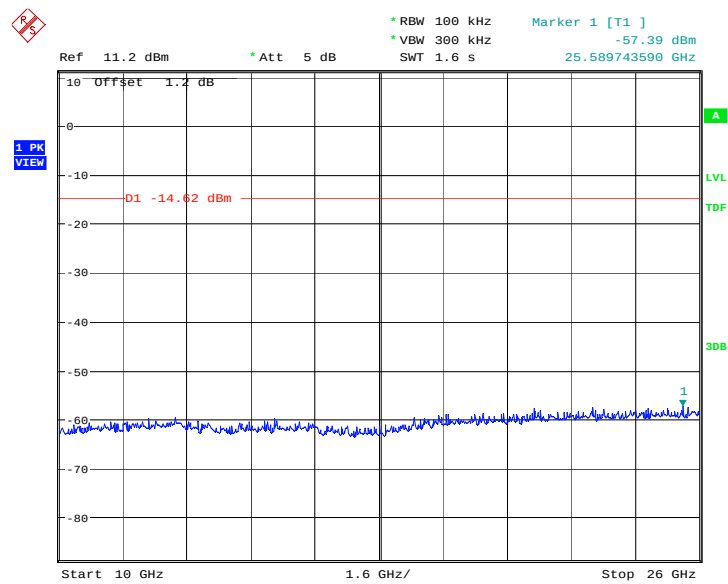
Date: 21.FEB.2014 17:34:13

Fig.40. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 1GHz - 3GHz



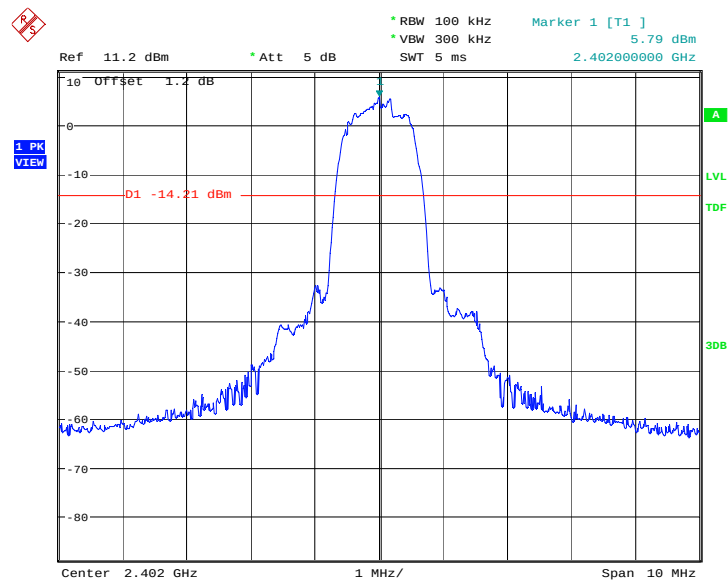
Date: 21.FEB.2014 17:34:30

Fig.41. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 3GHz - 10GHz



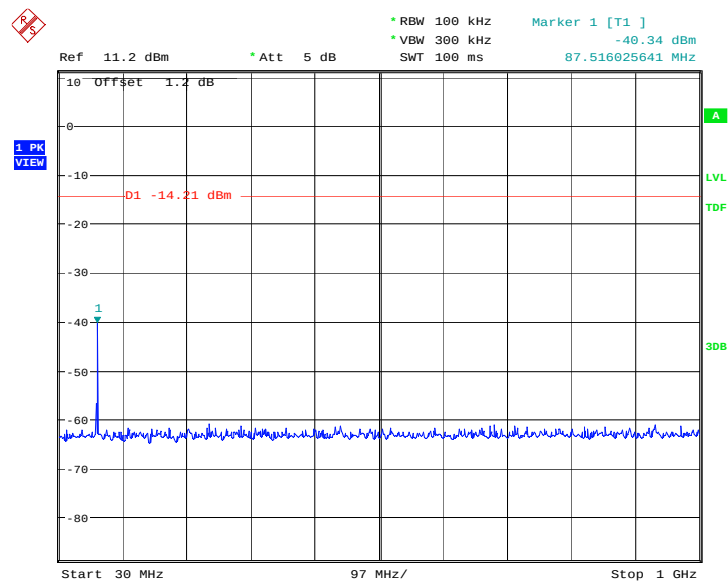
Date: 21.FEB.2014 17:34:46

Fig.42. Fig.30 Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 10GHz - 26GHz



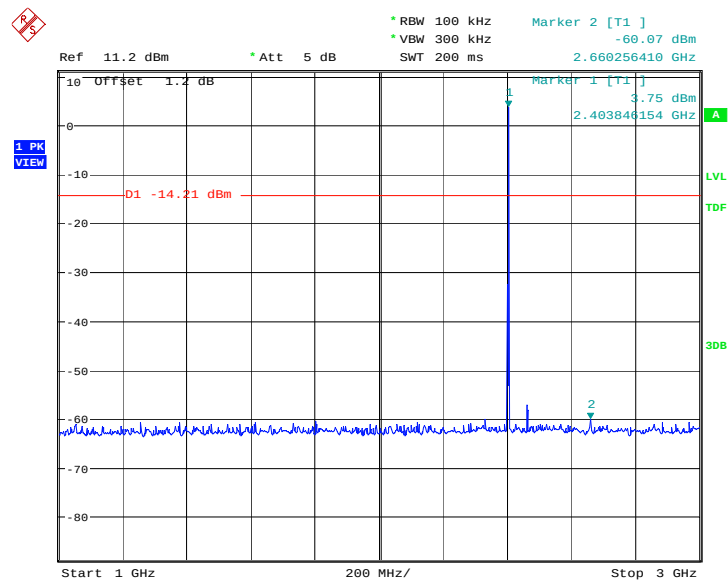
Date: 21.FEB.2014 17:51:40

Fig.43. Conducted spurious emission: 8DPSK, Channel 0, 2402MHz



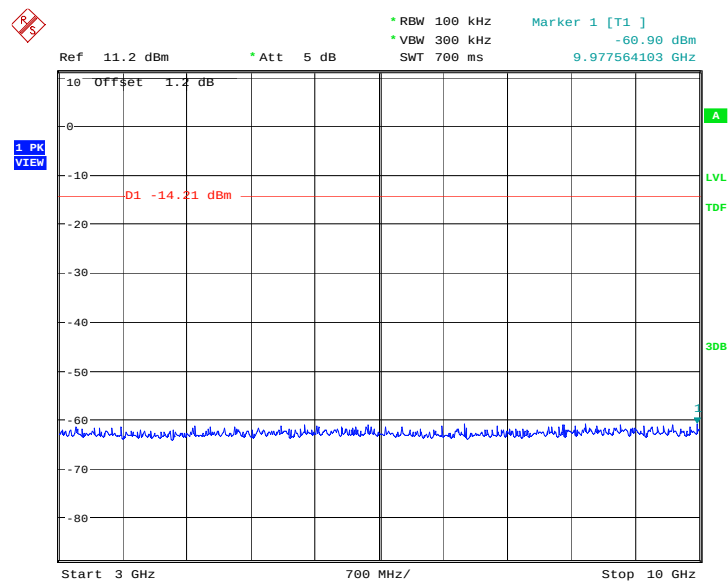
Date: 21.FEB.2014 17:51:56

Fig.44. Conducted spurious emission: 8DPSK, Channel 0, 30MHz - 1GHz



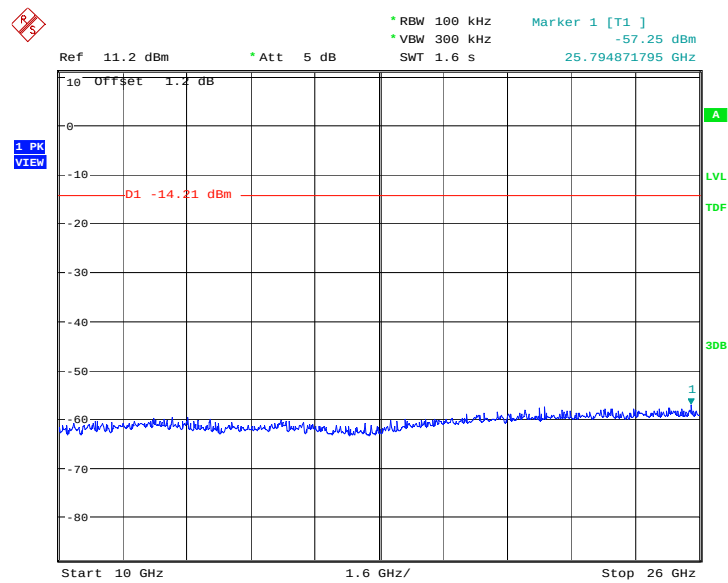
Date: 21.FEB.2014 17:52:28

Fig.45. Conducted spurious emission: 8DPSK, Channel 0, 1GHz - 3GHz



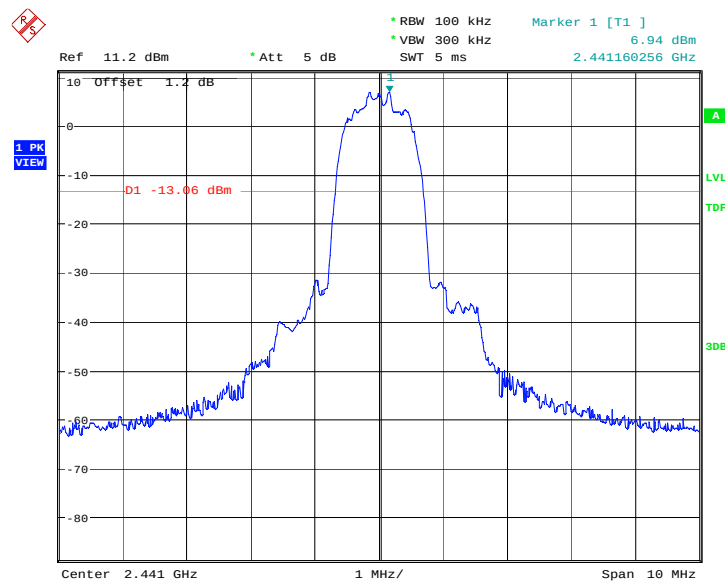
Date: 21.FEB.2014 17:52:44

Fig.46. Conducted spurious emission: 8DPSK, Channel 0, 3GHz - 10GHz



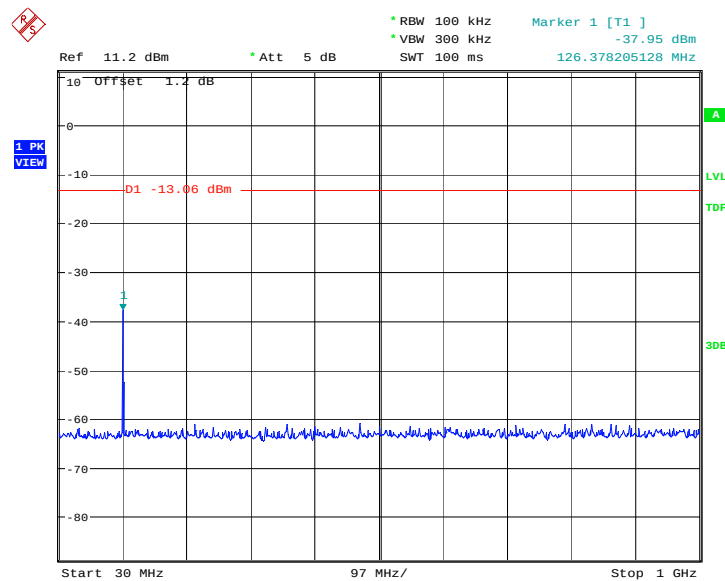
Date: 21.FEB.2014 17:53:01

Fig.47. Conducted spurious emission: 8DPSK, Channel 0, 10GHz - 26GHz



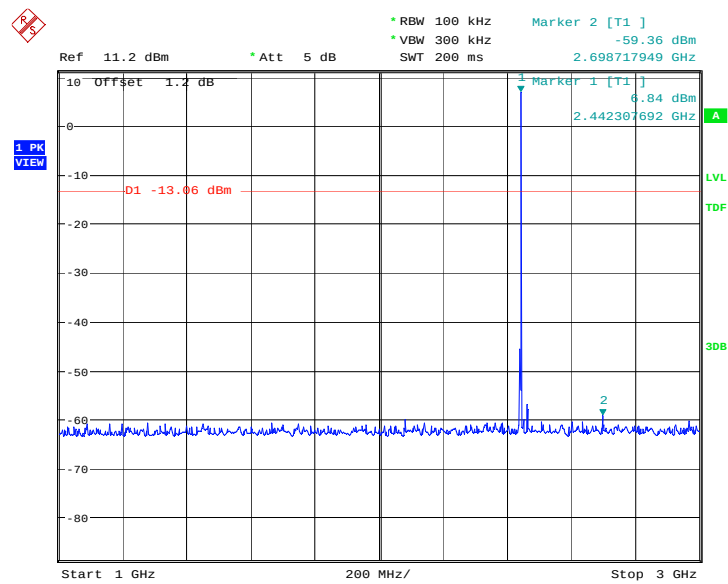
Date: 21.FEB.2014 17:53:18

Fig.48. Conducted spurious emission: 8DPSK, Channel 39, 2441MHz



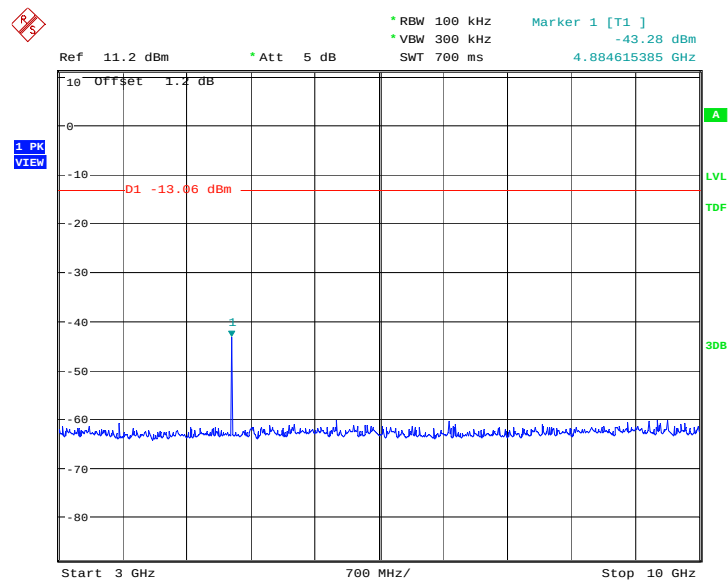
Date: 21.FEB.2014 17:53:34

Fig.49. Conducted spurious emission: 8DPSK, Channel 39, 30MHz - 1GHz



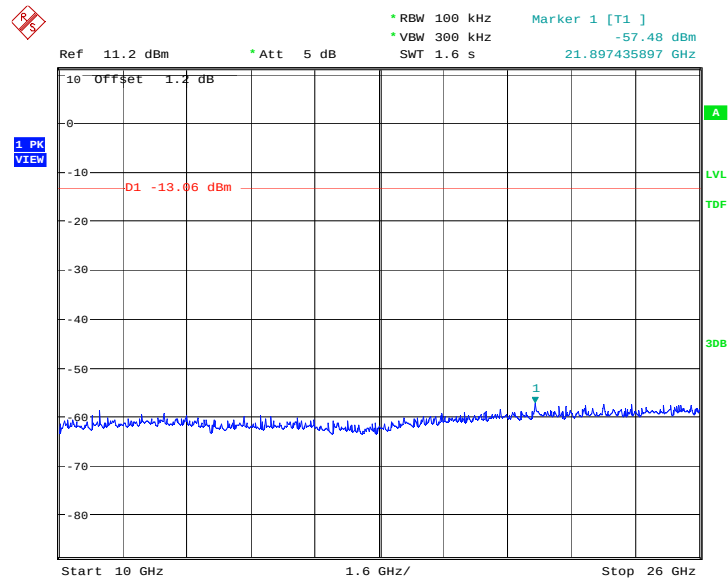
Date: 21.FEB.2014 17:54:06

Fig.50. Conducted spurious emission: 8DPSK, Channel 39, 1GHz - 3GHz



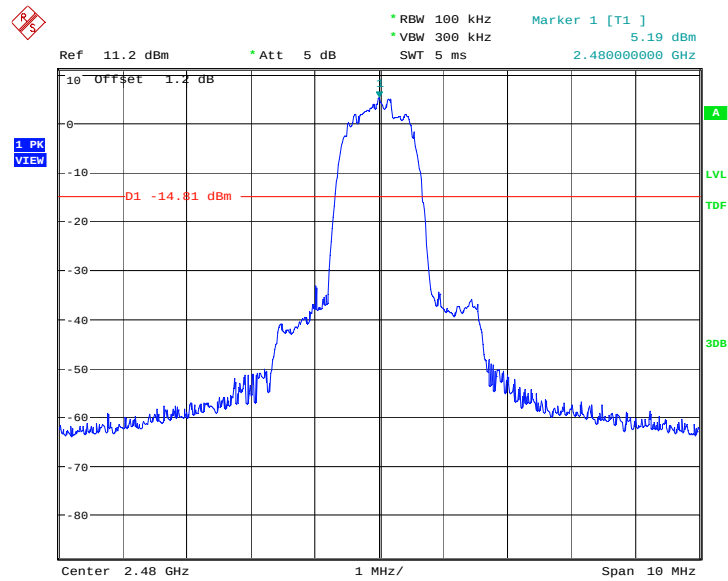
Date: 21.FEB.2014 17:54:22

Fig.51. Conducted spurious emission: 8DPSK, Channel 39, 3GHz - 10GHz



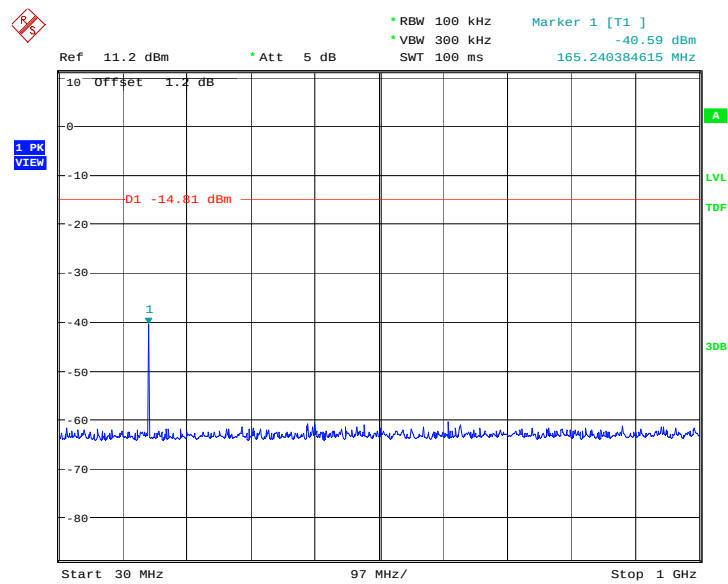
Date: 21.FEB.2014 17:54:39

Fig.52. Conducted spurious emission: 8DPSK, Channel 39, 10GHz – 26GHz



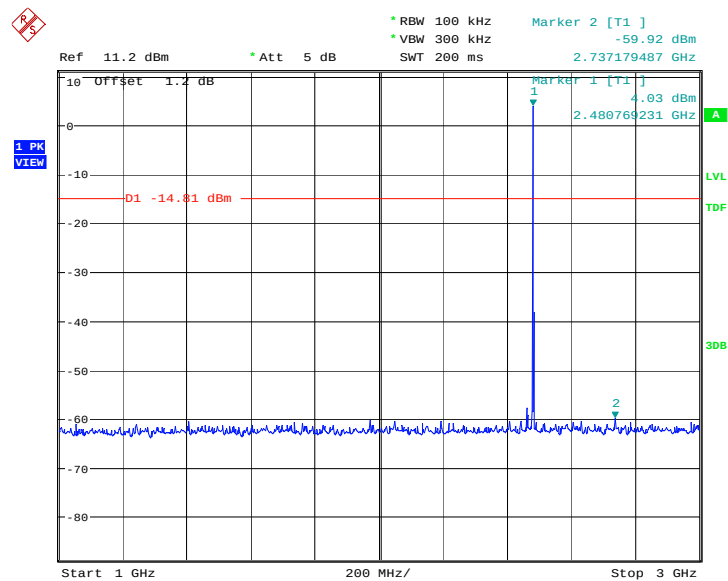
Date: 21.FEB.2014 17:54:56

Fig.53. Conducted spurious emission: 8DPSK, Channel 78, 2480MHz



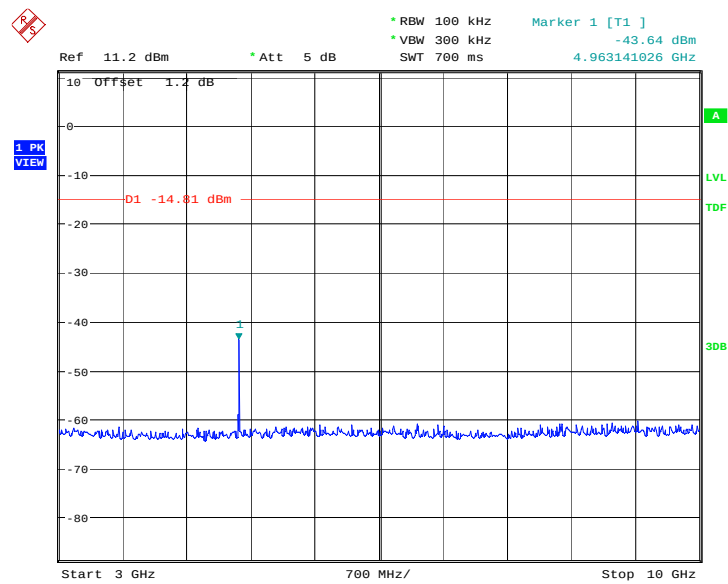
Date: 21.FEB.2014 17:55:12

Fig.54. Conducted spurious emission: 8DPSK, Channel 78, 30MHz - 1GHz



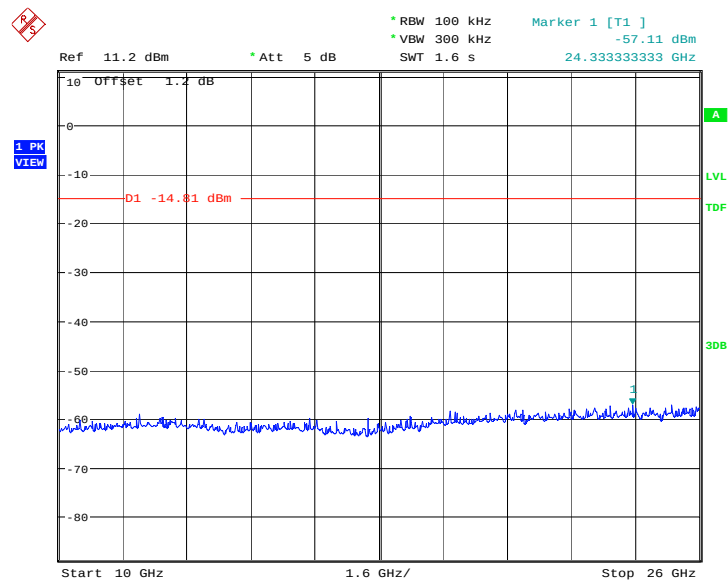
Date: 21.FEB.2014 17:55:44

Fig.55. Conducted spurious emission: 8DPSK, Channel 78, 1GHz - 3GHz



Date: 21.FEB.2014 17:56:01

Fig.56. Conducted spurious emission: 8DPSK, Channel 78, 3GHz - 10GHz



Date: 21.FEB.2014 17:56:17

Fig.57. Conducted spurious emission: 8DPSK, Channel 78, 10GHz - 26GHz

A.5. 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 made according to ANSI C63.10

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

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:

Result= P_{Mea} +ARPL

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	1 GHz ~ 3 GHz	Fig.58	P
	3 GHz ~ 18 GHz	Fig.59	P
Ch 39 2441 MHz	30 MHz ~ 1 GHz	Fig.60	P
	1 GHz ~ 3 GHz	Fig.61	P
	3 GHz ~ 18 GHz	Fig.62	P
Ch 78 2480 MHz	1 GHz ~ 3 GHz	Fig.63	P
	3 GHz ~ 18 GHz	Fig.64	P
Power	2.38GHz~2.4GHz---L	Fig.65	P
Power	2.45GHz~2.5GHz---H	Fig.66	P

For all channels	18 GHz ~ 26 GHz	Fig.67	P
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For $\pi/4$ DQPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	1 GHz ~ 3 GHz	Fig.68	P
	3 GHz ~ 18 GHz	Fig.69	P
Ch 39 2441 MHz	30 MHz ~ 1 GHz	Fig.70	P
	1 GHz ~ 3 GHz	Fig.71	P
	3 GHz ~ 18 GHz	Fig.72	P
Ch 78 2480 MHz	1 GHz ~ 3 GHz	Fig.73	P
	3 GHz ~ 18 GHz	Fig.74	P
Power	2.38GHz~2.4GHz---L	Fig.75	P
Power	2.45GHz~2.5GHz---H	Fig.76	P
For all channels	18 GHz ~ 26 GHz	Fig.77	P

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	1 GHz ~ 3 GHz	Fig.78	P
	3 GHz ~ 18 GHz	Fig.79	P
Ch 39 2441 MHz	30 MHz ~ 1 GHz	Fig.80	P
	1 GHz ~ 3 GHz	Fig.81	P
	3 GHz ~ 18 GHz	Fig.82	P
Ch 78 2480 MHz	1 GHz ~ 3 GHz	Fig.83	P
	3 GHz ~ 18 GHz	Fig.84	P
Power	2.38GHz~2.4GHz---L	Fig.85	P
Power	2.45GHz~2.5GHz---H	Fig.86	P
For all channels	18 GHz ~ 26 GHz	Fig.87	P

GFSK Ch 0 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	PMea(dBuv/m)	Polarization
2390.000	34.5	-11.10	45.6	H
17950.500	45.8	27.90	17.9	H
17901.000	45.7	27.10	18.6	V
17913.000	45.7	27.10	18.6	H
17794.500	45.6	27.10	18.5	V
17850.000	45.5	27.10	18.4	H

GFSK Ch 39 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
17920.500	46.1	27.90	18.2	H
17812.500	45.8	27.10	18.7	V
17965.500	45.8	27.90	17.9	H
17844.000	45.7	27.10	18.6	H
17800.500	45.3	27.10	18.2	V

17778.000	45.3	27.10	18.2	H
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GFSK Ch 78 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2483.500	50.6	-11.20	61.8	V
17997.000	45.9	27.90	18.0	H
17941.500	45.7	27.90	17.8	H
17794.500	45.6	27.10	18.5	V
17989.500	45.6	27.90	17.7	V
17806.500	45.5	27.10	18.4	V

 $\pi/4$ DQPSK Ch 0 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2390.000	34.3	-11.10	45.4	V
17964.000	45.7	27.90	17.8	V
17842.500	45.7	27.10	18.6	V
17923.500	45.4	27.90	17.5	H
17968.500	45.3	27.90	17.4	H
17872.500	45.2	27.10	18.1	H

 $\pi/4$ DQPSK Ch 39 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
17986.500	45.7	27.90	17.8	V
17772.000	45.5	27.10	18.4	H
17980.500	45.4	27.90	17.5	H
17841.000	45.4	27.10	18.3	H
17844.000	45.3	27.10	18.2	V
17847.000	45.3	27.10	18.2	H

 $\pi/4$ DQPSK Ch 78 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2483.500	50.9	-11.20	62.1	H
17937.000	46.7	27.90	18.8	V
17970.000	46.0	27.90	18.1	V
17779.500	45.7	27.10	18.6	V
17992.500	45.7	27.90	17.8	H
17698.500	45.7	26.70	19.0	V

8DPSK Ch 0 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2390.000	34.6	-11.10	45.7	H
17964.000	46.0	27.90	18.1	H
17943.000	45.8	27.90	17.9	V
18000.000	45.7	-1.07	46.8	V
17935.500	45.6	27.90	17.7	H

17868.000	45.6	27.10	18.5	H
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8DPSK Ch 39 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
17916.000	46.2	27.90	18.3	H
17953.500	45.9	27.90	18.0	H
17994.000	45.9	27.90	18.0	V
17926.500	45.8	27.90	17.9	V
17976.000	45.3	27.90	17.4	H
17793.000	45.2	27.10	18.1	H

8DPSK Ch 78 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2483.500	51.5	-11.20	62.7	V
17734.500	45.5	26.70	18.8	V
17970.000	45.4	27.90	17.5	V
17854.500	45.3	27.10	18.2	V
17896.500	45.0	27.10	17.9	H
17976.000	44.9	27.90	17.0	H

Conclusion: PASS

Test graphs as below:

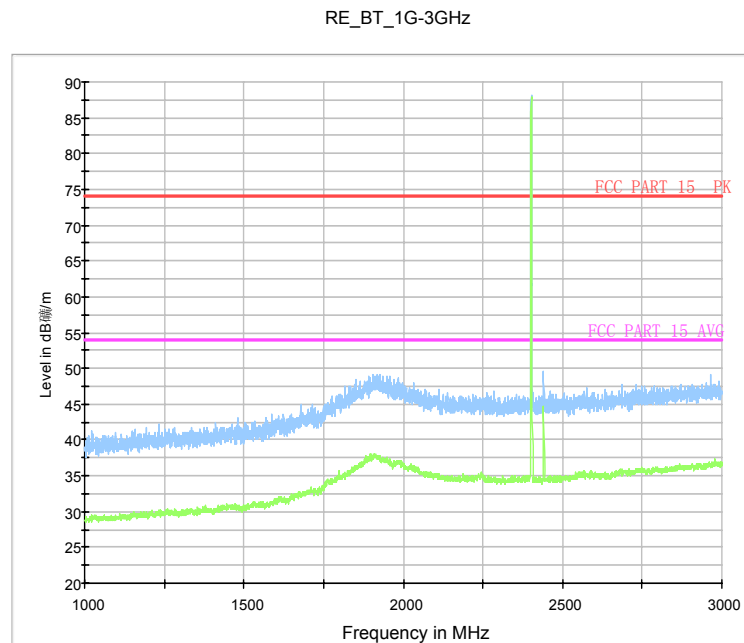


Fig.58. Radiated emission: GFSK, Channel 0, 1 GHz - 3 GHz

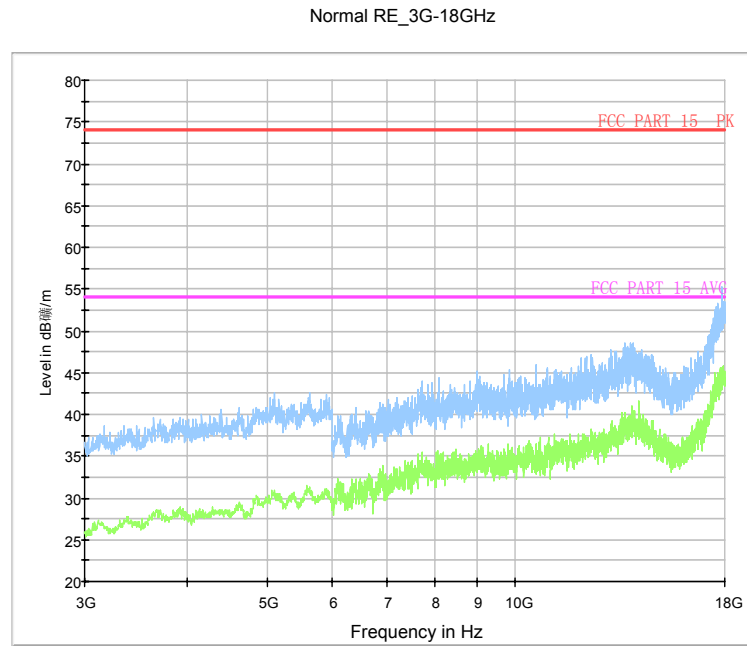


Fig.59. Radiated emission: GFSK, Channel 0, 3 GHz - 18 GHz

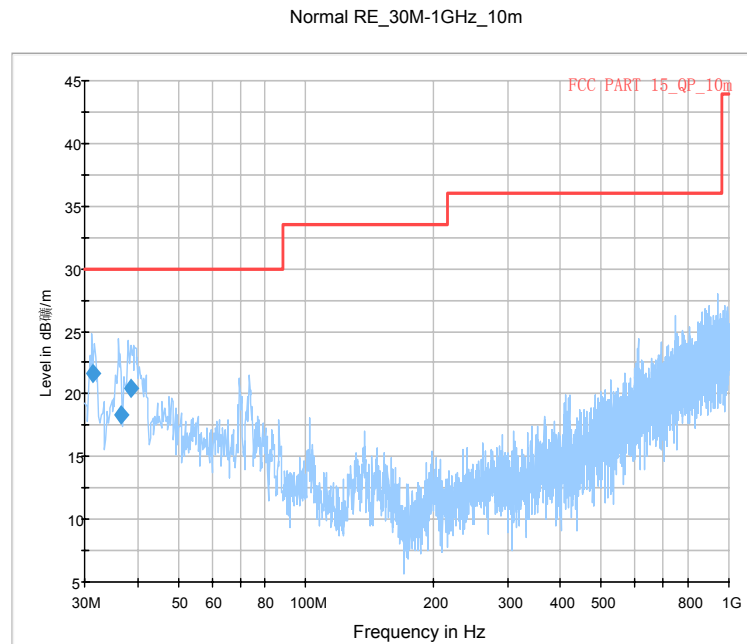


Fig.60. Radiated emission: GFSK, Channel 39, 30 MHz - 1 GHz

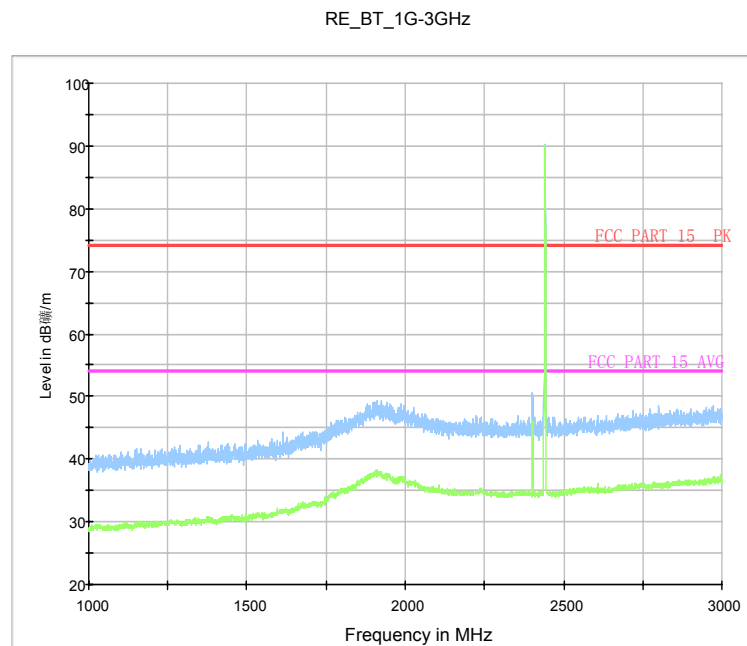


Fig.61. Radiated emission: GFSK, Channel 39, 1 GHz - 3 GHz

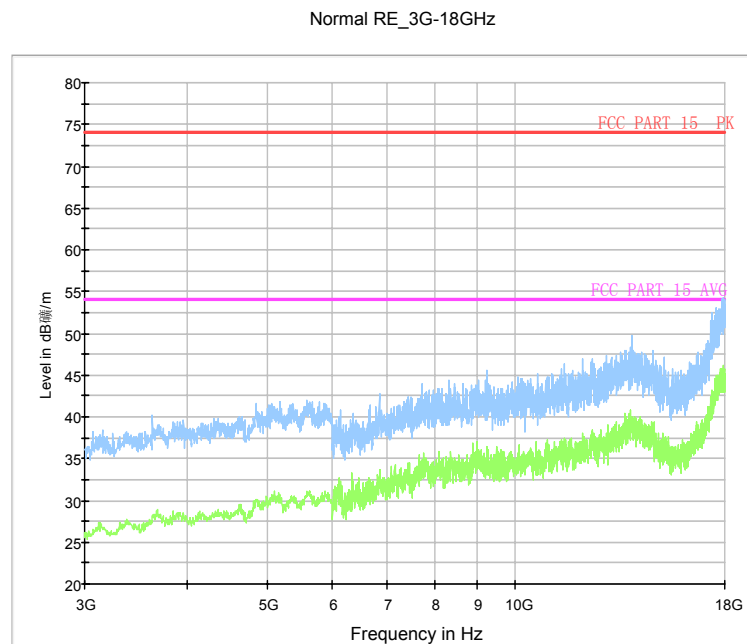


Fig.62. Radiated emission: GFSK, Channel 39, 3 GHz - 18 GHz

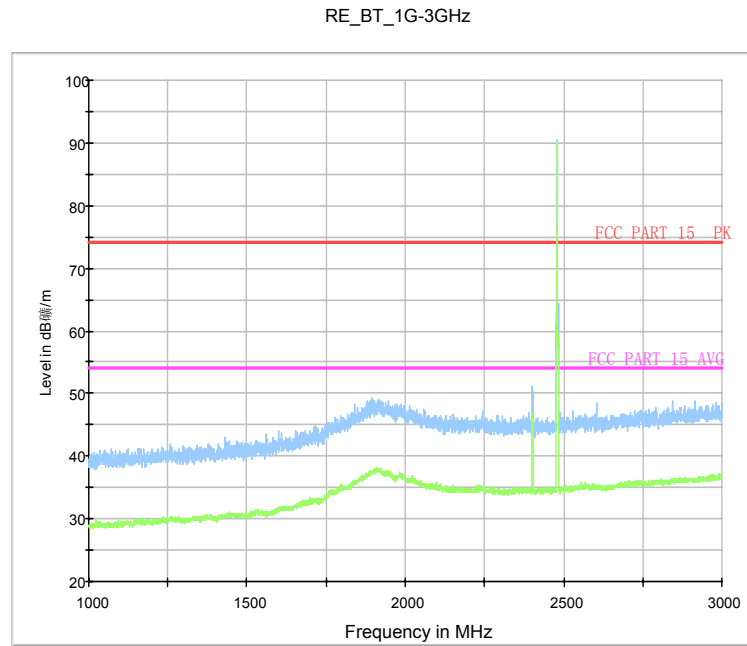


Fig.63. Radiated emission: GFSK, Channel 78, 1 GHz - 3 GHz

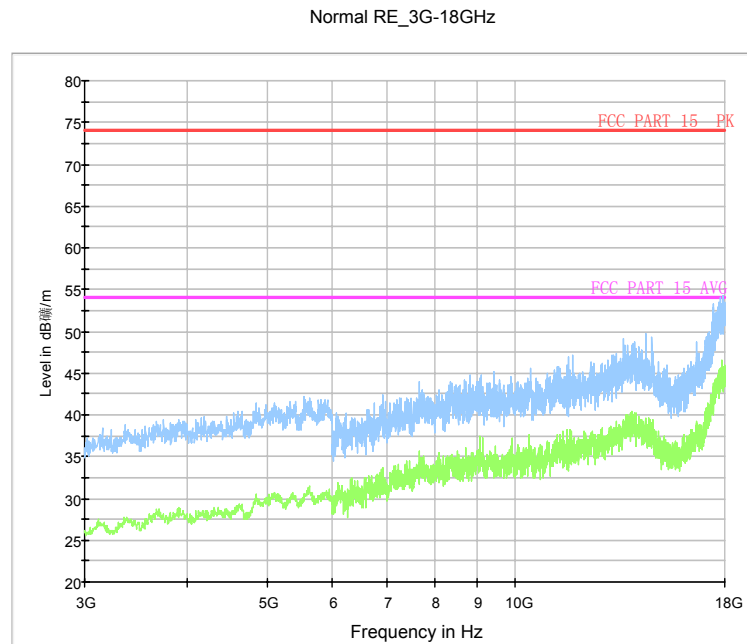


Fig.64. Radiated emission: GFSK, Channel 78, 3 GHz - 18 GHz

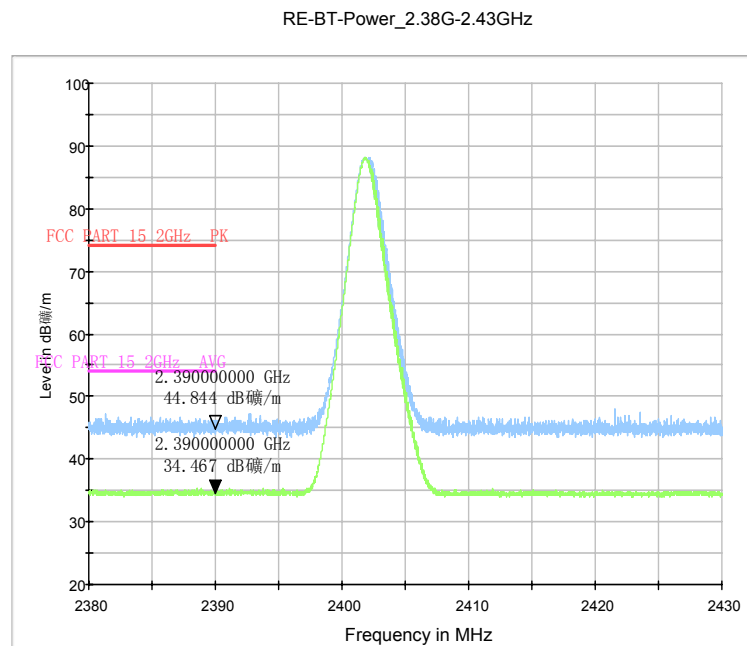


Fig.65. Radiated emission (Power): GFSK, low channel

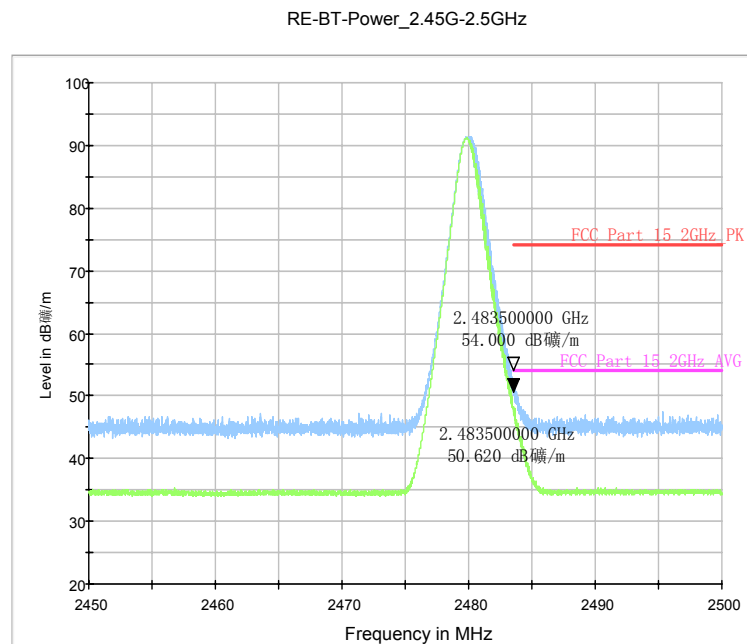


Fig.66. Radiated emission (Power) GFSK, high channel

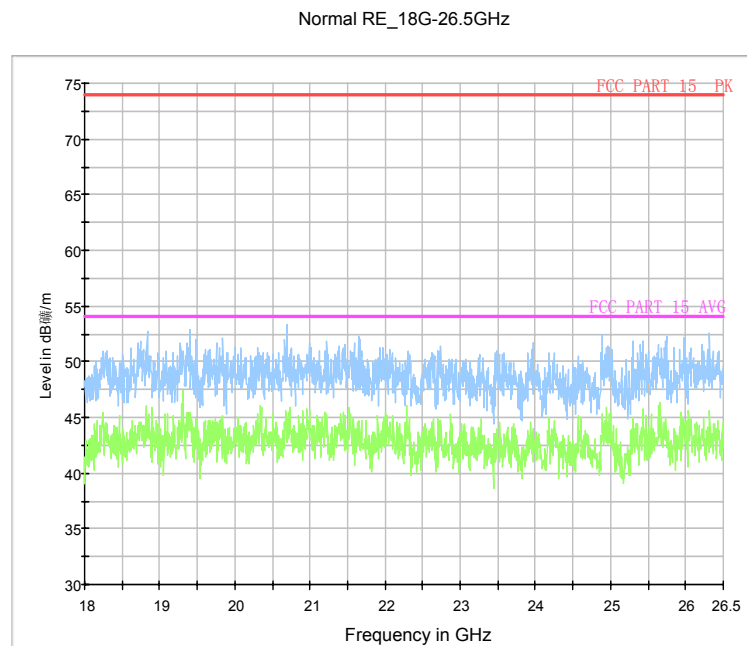


Fig.67. Radiated emission: GFSK, 18 GHz - 26 GHz

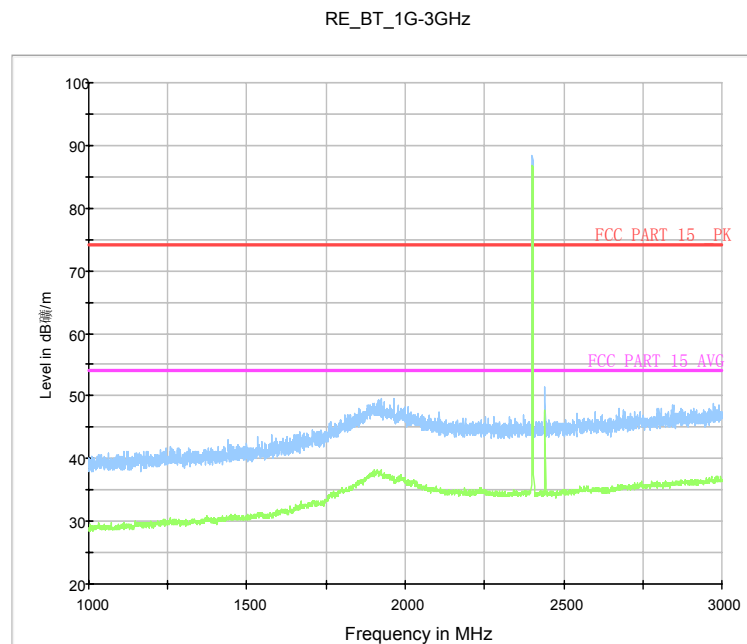


Fig.68. Radiated emission: $\pi/4$ DQPSK, Channel 0, 1 GHz - 3 GHz

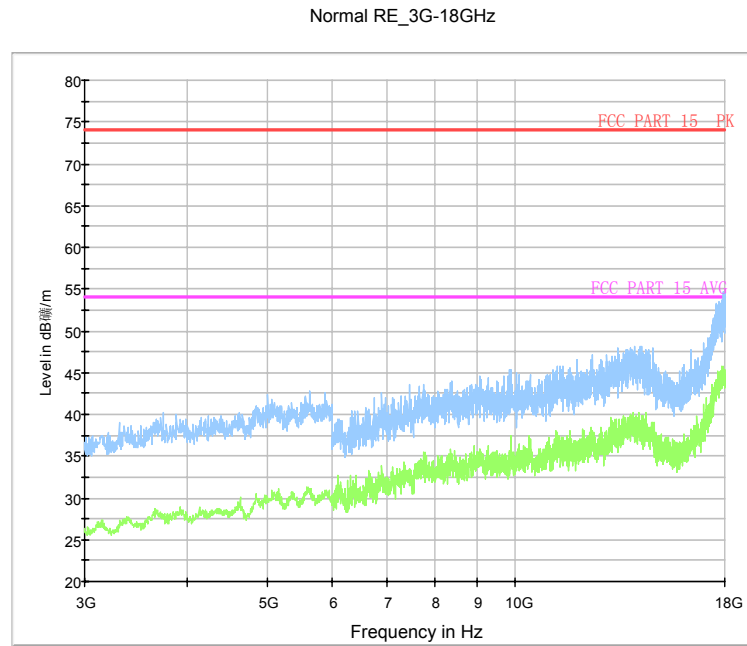


Fig.69. Radiated emission: $\pi/4$ DQPSK, Channel 0, 3 GHz - 18 GHz

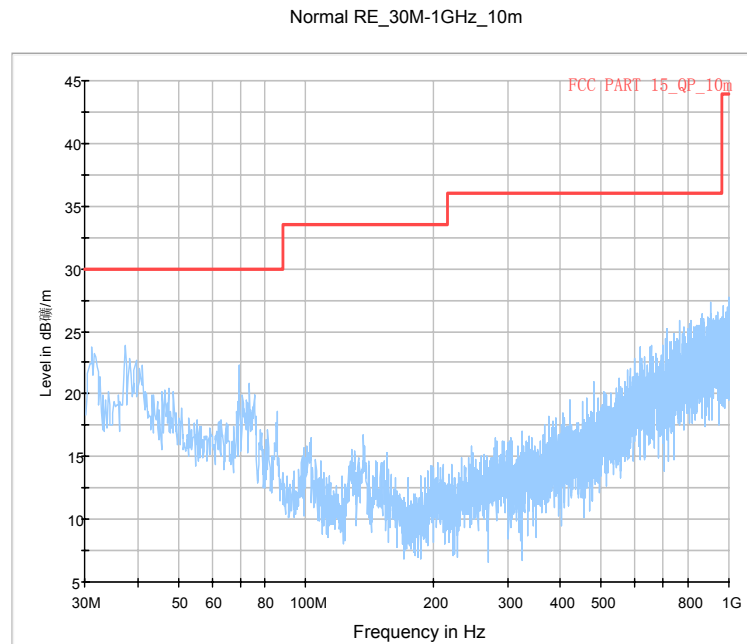


Fig.70. Radiated emission: $\pi/4$ DQPSK, Channel 39, 30 MHz - 1 GHz

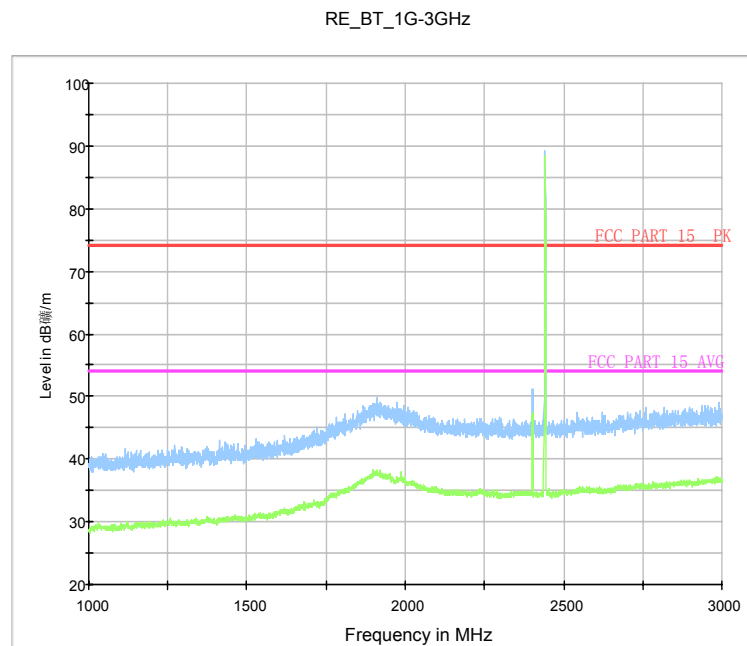


Fig.71. Radiated emission: $\pi/4$ DQPSK, Channel 39, 1 GHz - 3 GHz

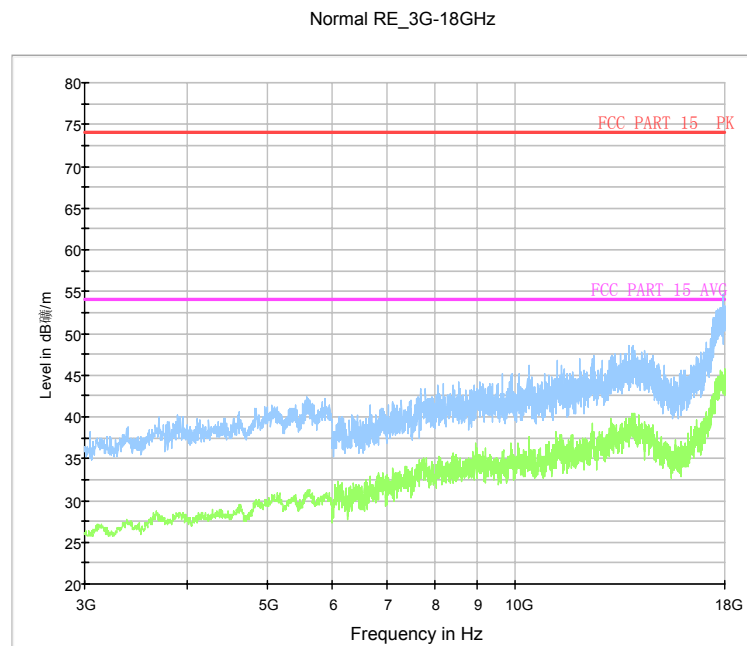


Fig.72. Radiated emission: $\pi/4$ DQPSK, Channel 39, 3 GHz - 18 GHz

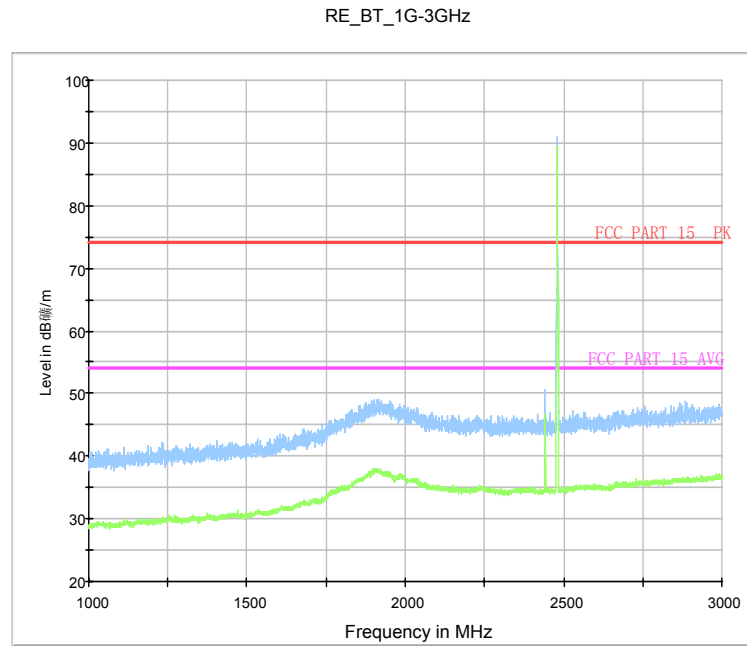


Fig.73. Radiated emission: $\pi/4$ DQPSK, Channel 78, 1 GHz - 3 GHz

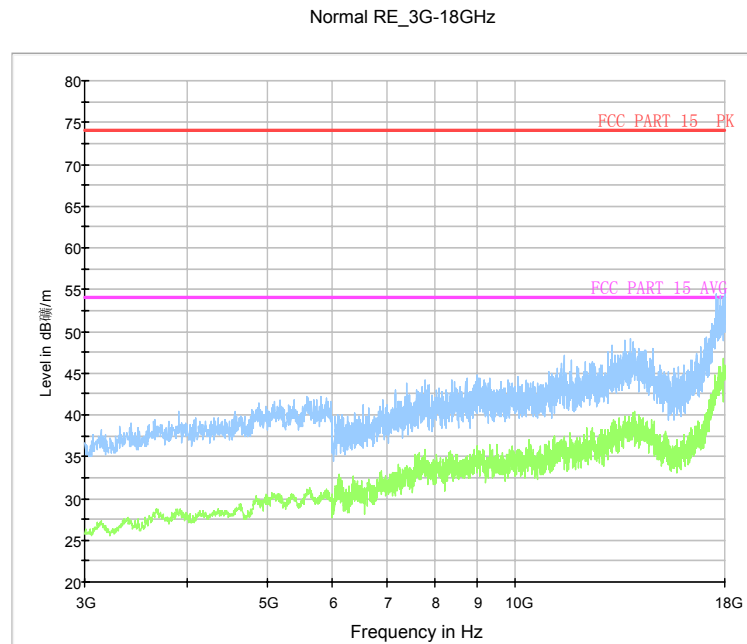


Fig.74. Radiated emission: $\pi/4$ DQPSK, Channel 78, 3 GHz - 18 GHz

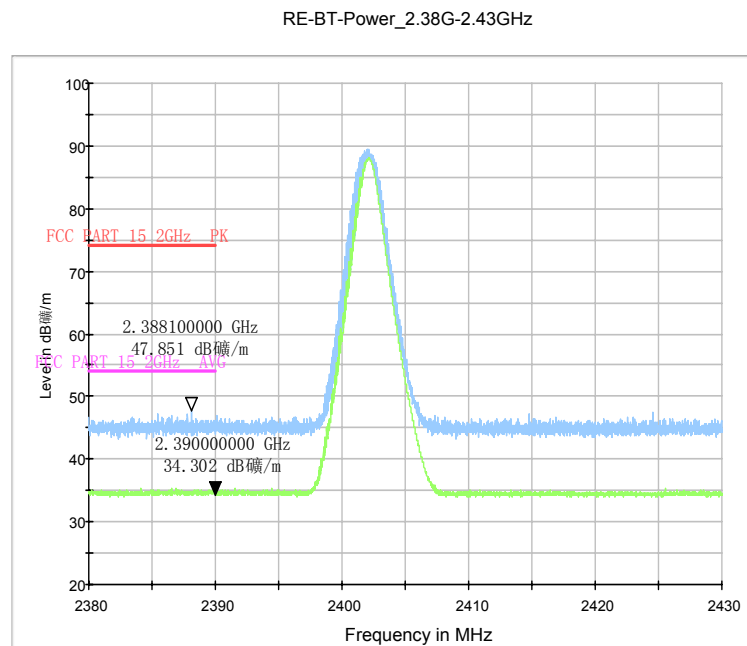


Fig.75. Radiated emission (Power): $\pi/4$ DQPSK, low channel

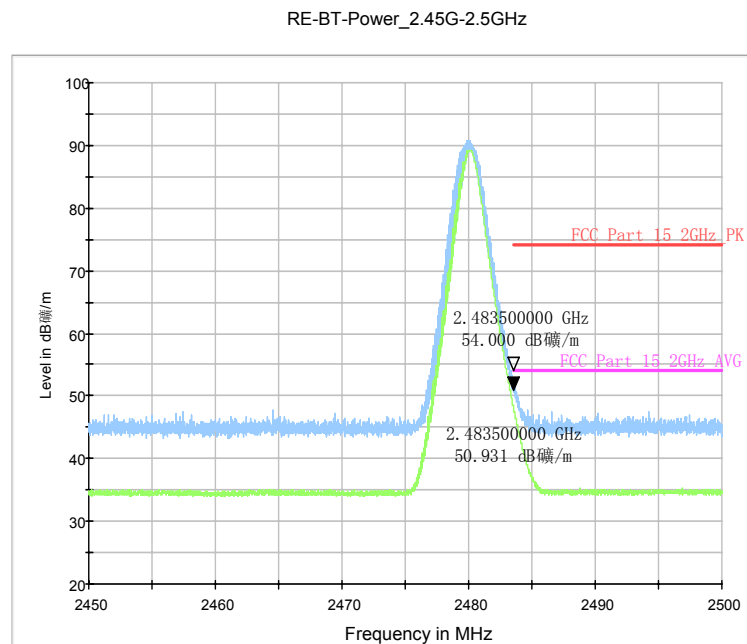


Fig.76. Radiated emission (Power): $\pi/4$ DQPSK, high channel

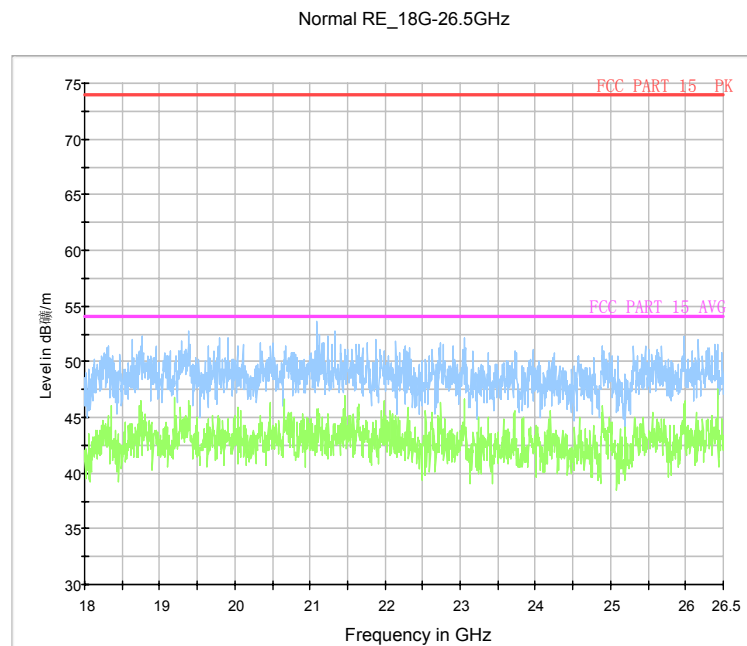


Fig.77. Radiated emission: $\pi/4$ DQPSK, 18 GHz - 26 GHz

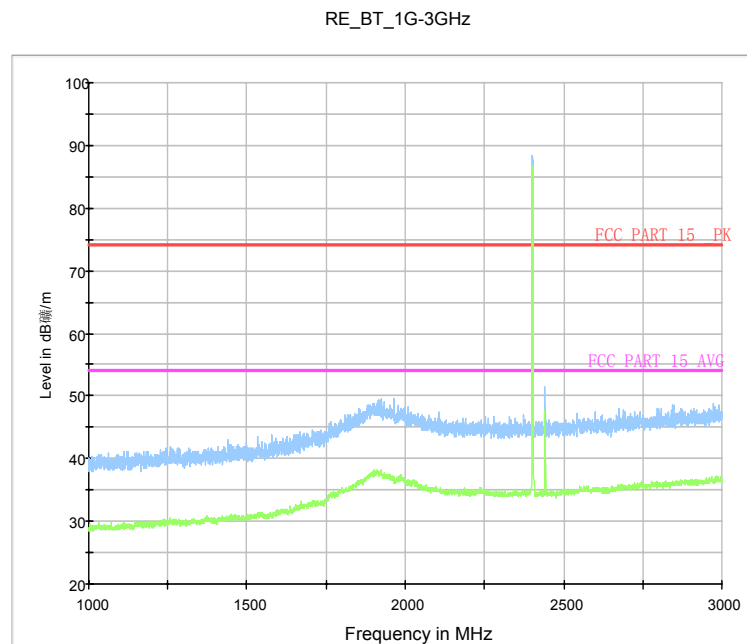


Fig.78. Radiated emission: 8DPSK, Channel 0, 1 GHz - 3 GHz

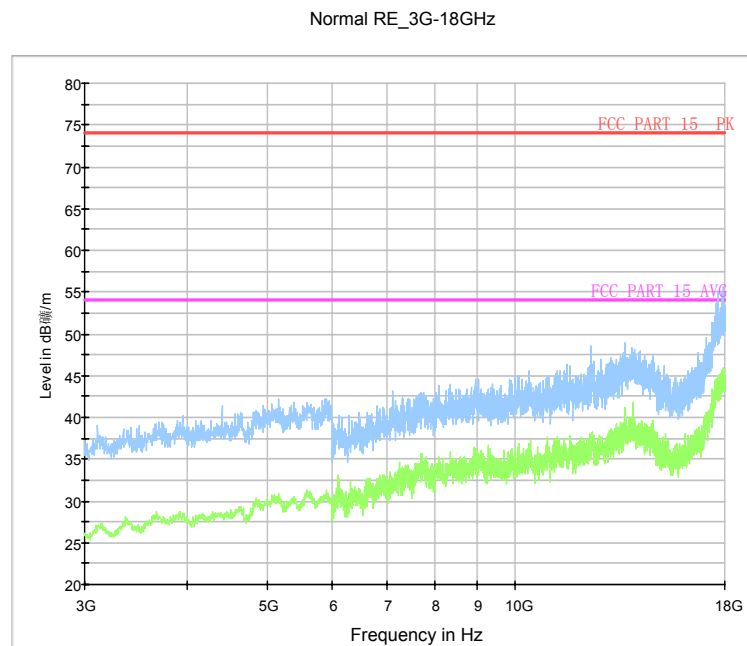


Fig.79. Radiated emission: 8DPSK, Channel 0, 3 GHz - 18 GHz

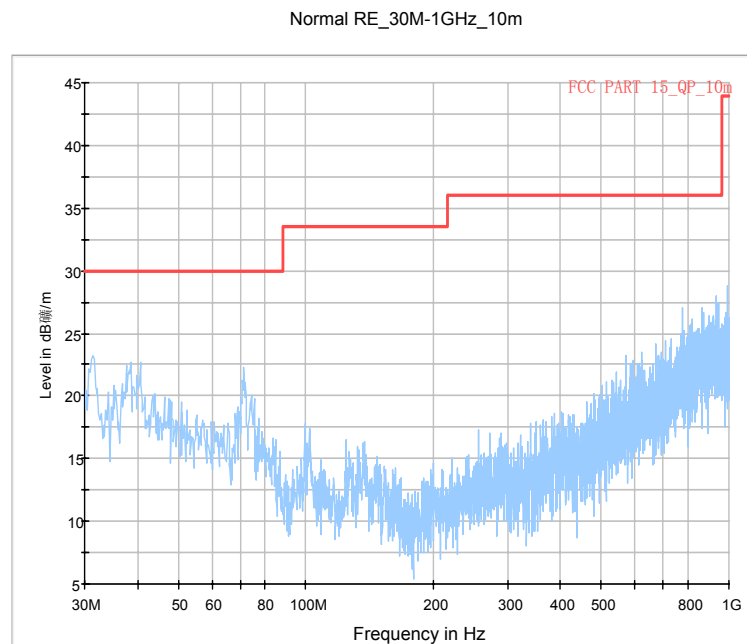


Fig.80. Radiated emission: 8DPSK, Channel 39, 30 MHz - 1 GHz

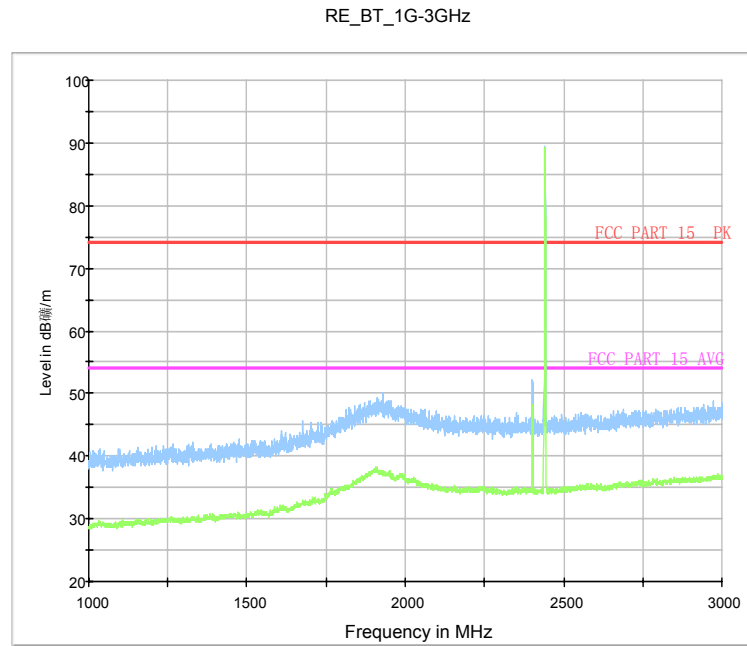


Fig.81. Radiated emission: 8DPSK, Channel 39, 1 GHz - 3 GHz

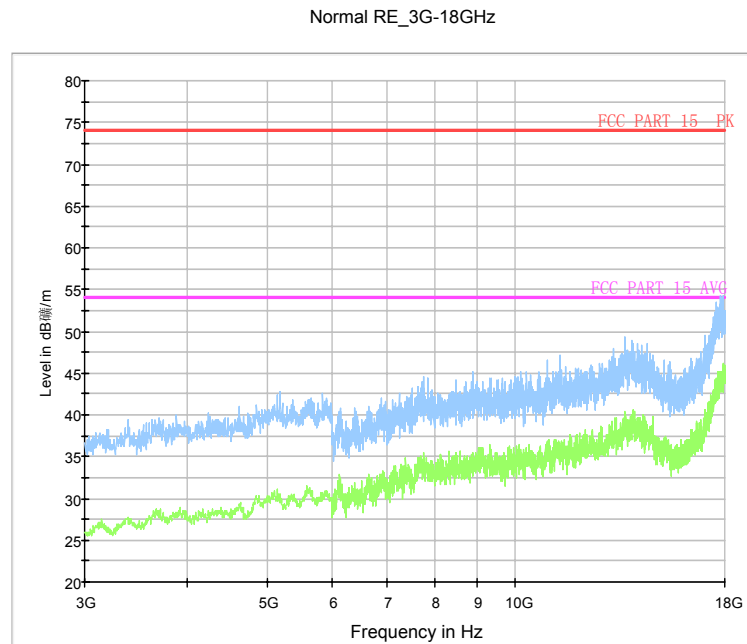


Fig.82. Radiated emission: 8DPSK, Channel 39, 3 GHz - 18 GHz

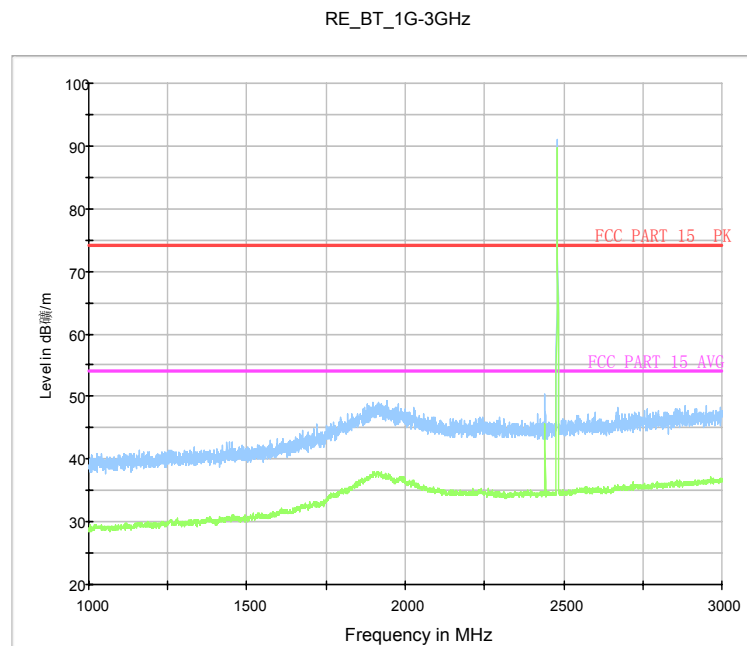


Fig.83. Radiated emission: 8DPSK, Channel 78, 1 GHz - 3 GHz

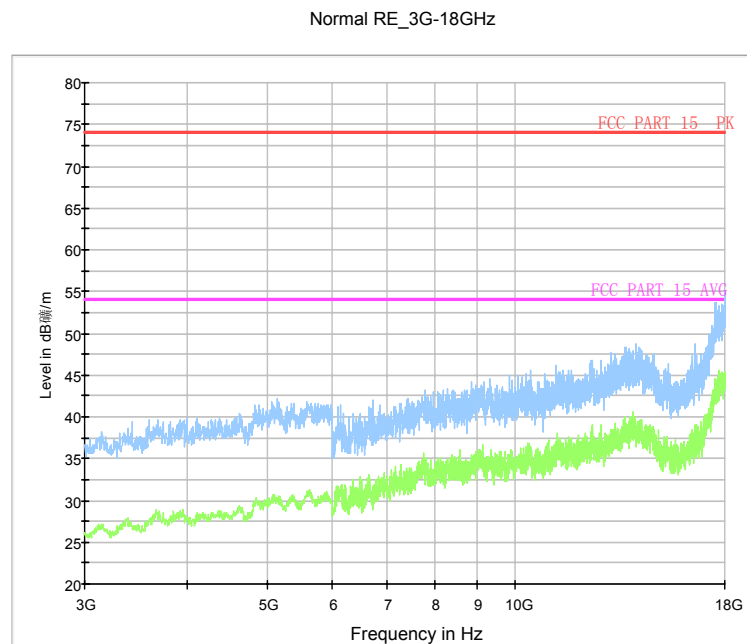


Fig.84. Radiated emission: 8DPSK, Channel 78, 3 GHz - 18 GHz

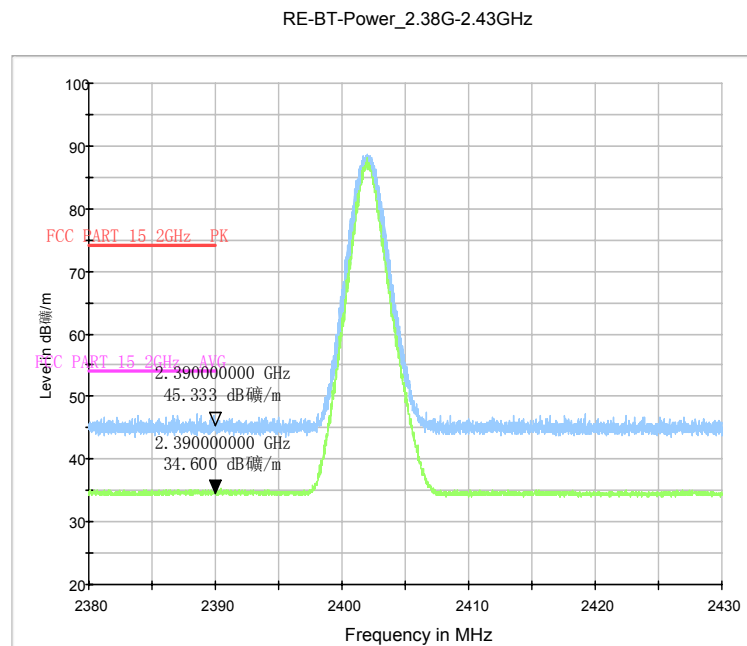


Fig.85. Radiated emission (Power): 8DPSK, low channel

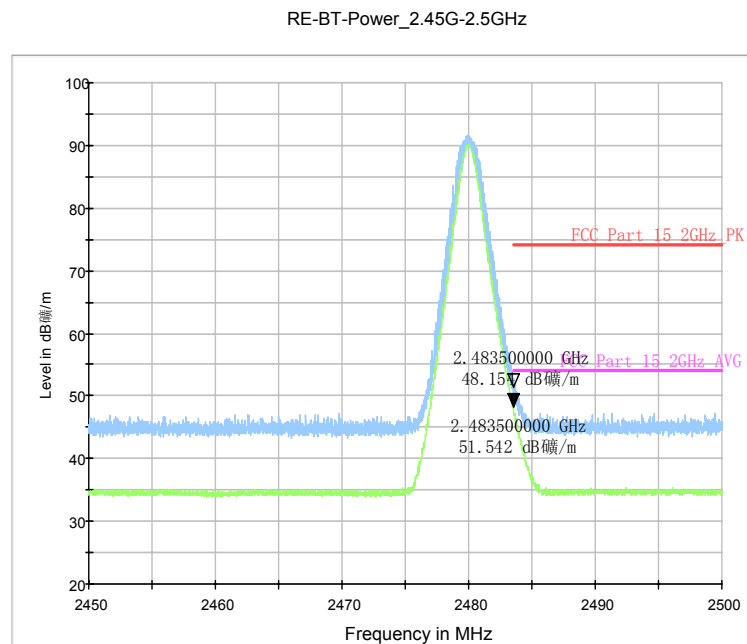


Fig.86. Radiated emission (Power): 8DPSK, high channel

Normal RE_18G-26.5GHz

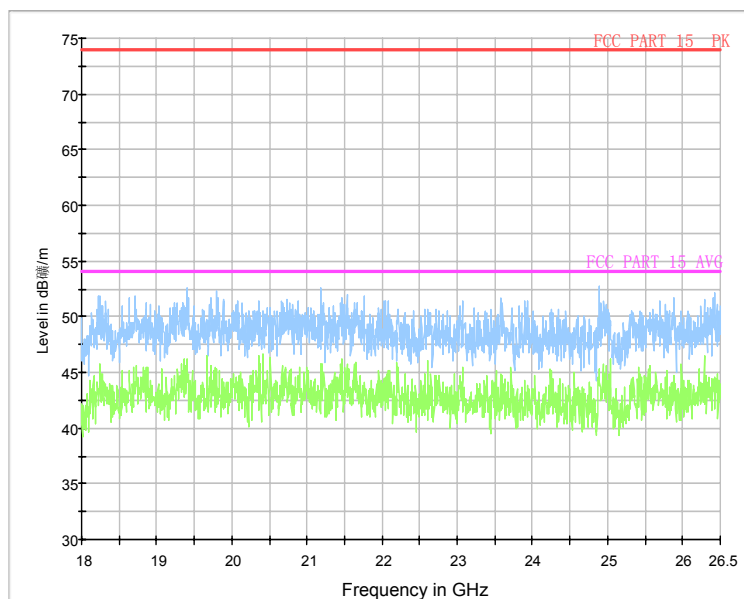


Fig.87. Radiated emission: 8DPSK, 18 GHz - 26 GHz

A.6. Time of Occupancy (Dwell Time)

Measurement Limit:

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

The measurement is made according to ANSI C63.10

Measurement Result:

For GFSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.88	109.64	P
		Fig.89		
	DH3	Fig.90	160.05	P
		Fig.91		
	DH5	Fig.92	189.06	P
		Fig.93		

For $\pi/4$ DQPSK

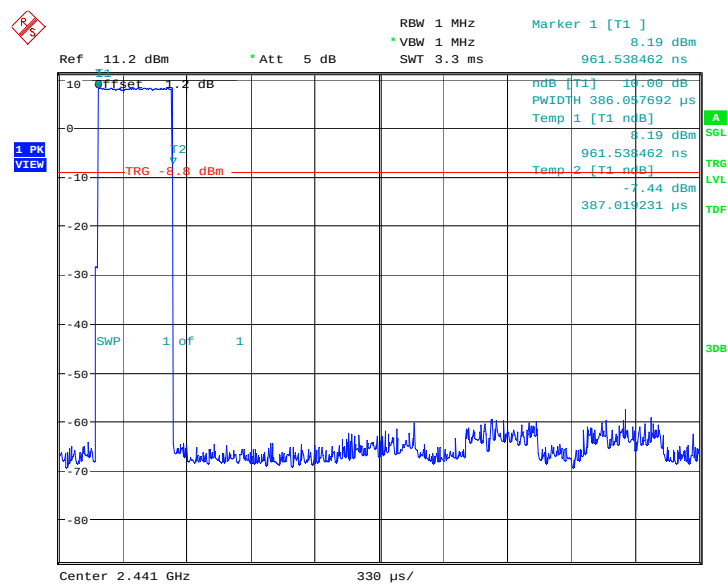
Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.94	107.62	P
		Fig.95		
	DH3	Fig.96	180.43	P
		Fig.97		
	DH5	Fig.98	174.52	P
		Fig.99		

For 8DPSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.100	105.27	P
		Fig.101		
	DH3	Fig.102	162.22	P
		Fig.103		
	DH5	Fig.104	151.53	P
		Fig.105		

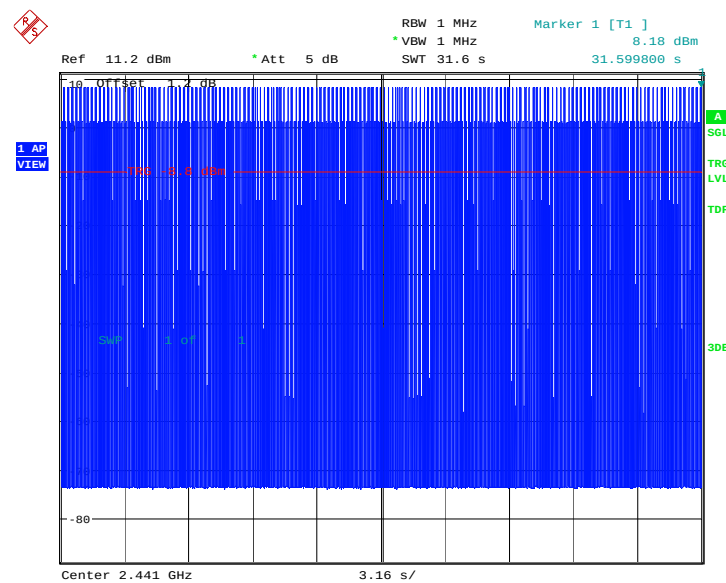
Conclusion: PASS

Test graphs as below:



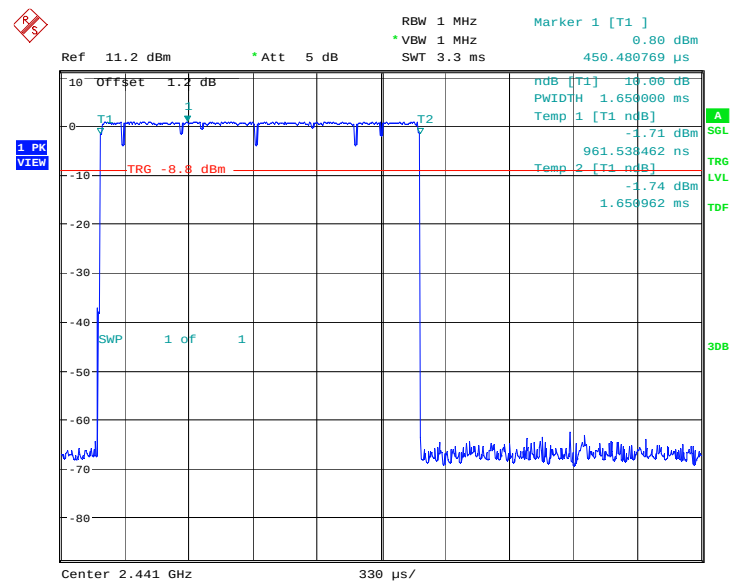
Date: 21.FEB.2014 17:15:30

Fig.88. Time of occupancy (Dwell Time): Channel 39, Packet DH1



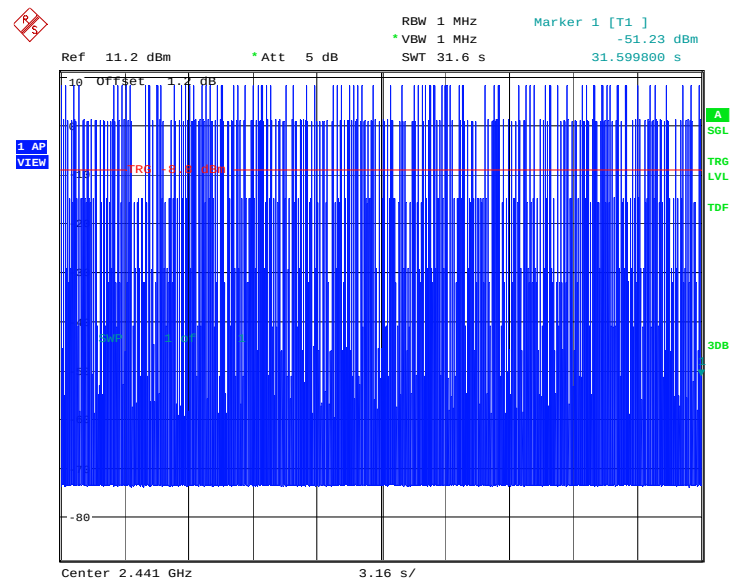
Date: 21.FEB.2014 17:15:19

Fig.89. Number of Transmissions Measurement: Channel 39, Packet DH1



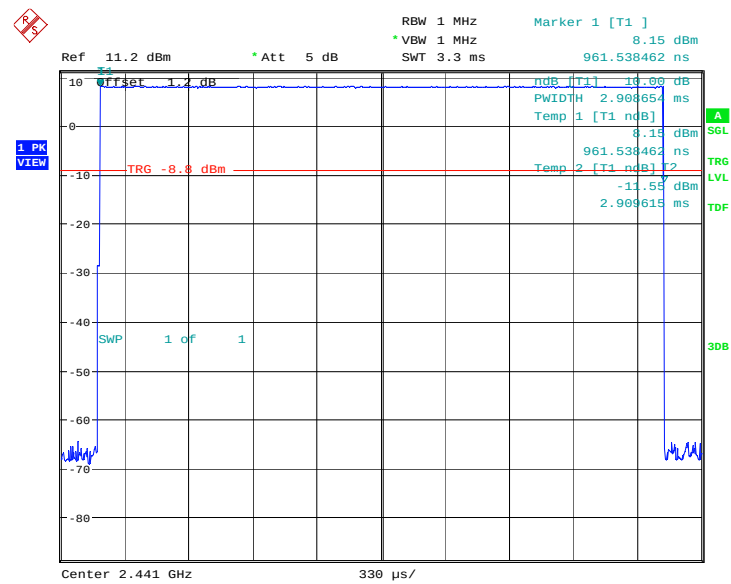
Date: 21.FEB.2014 17:16:25

Fig.90. Time of occupancy (Dwell Time): Channel 39, Packet DH3



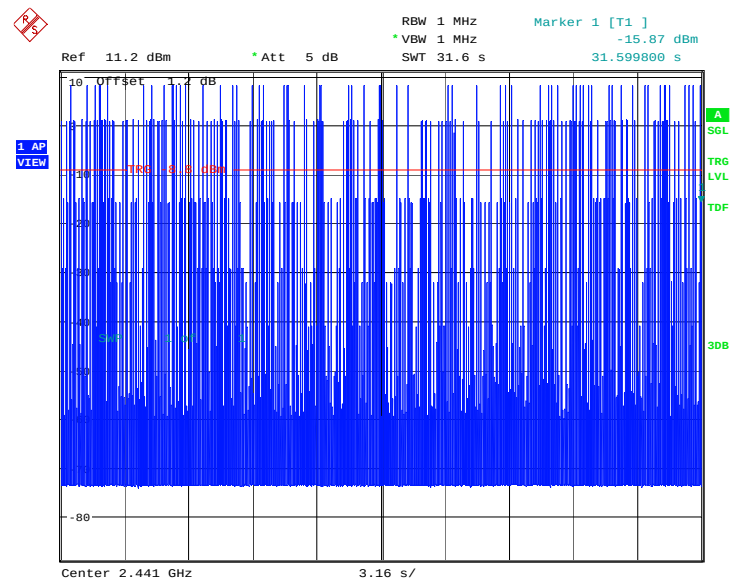
Date: 21.FEB.2014 17:16:14

Fig.91. Number of Transmissions Measurement:Channel 39,Packet DH3



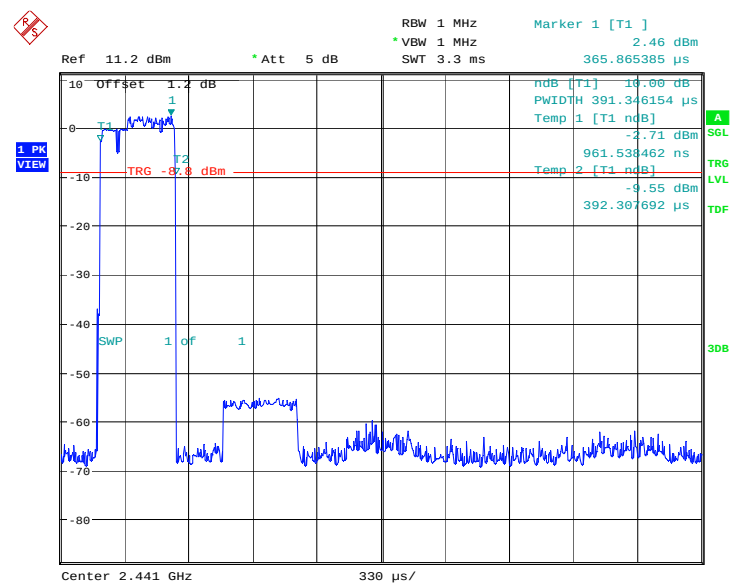
Date: 21.FEB.2014 17:17:20

Fig.92. Time of occupancy (Dwell Time): Channel 39, Packet DH5



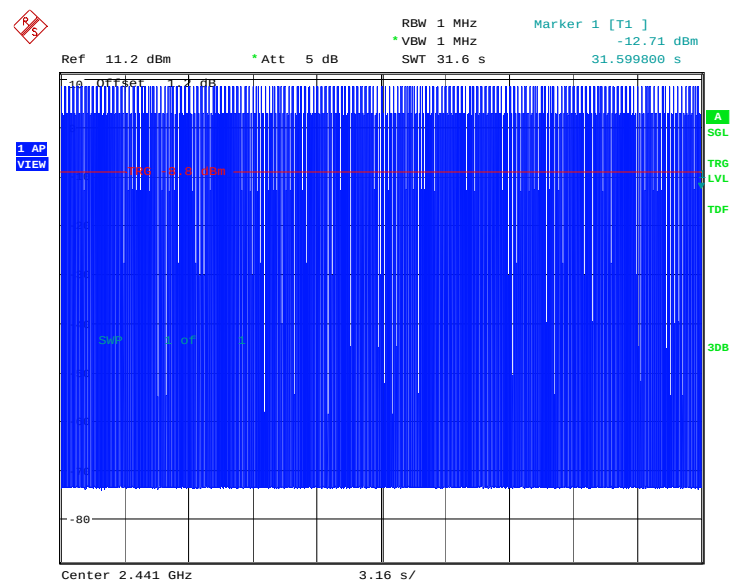
Date: 21.FEB.2014 17:17:09

Fig.93. Number of Transmissions Measurement:Channel 39,Packet DH5



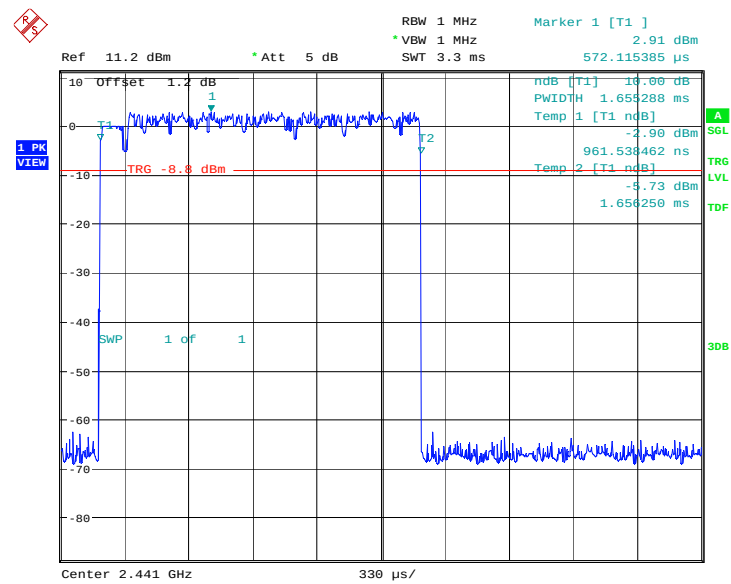
Date: 21.FEB.2014 17:36:13

Fig.94. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH1



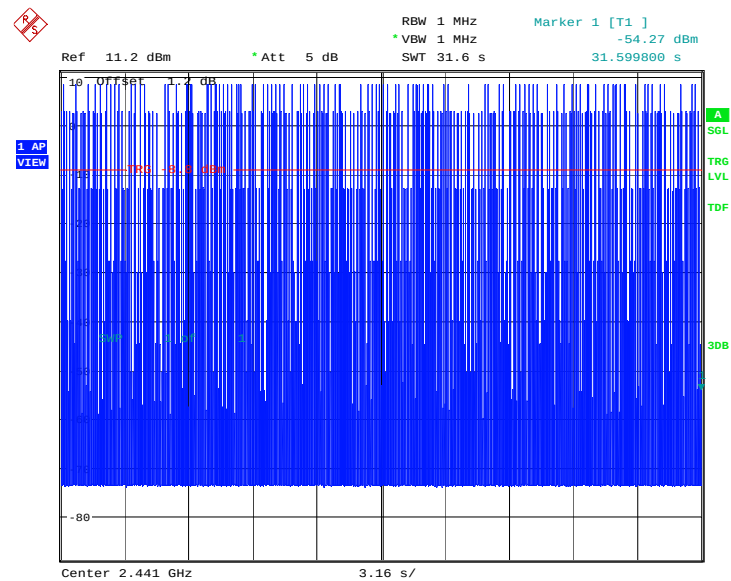
Date: 21.FEB.2014 17:36:01

Fig.95. Number of Transmissions Measurement: Channel 39, Packet 2-DH1



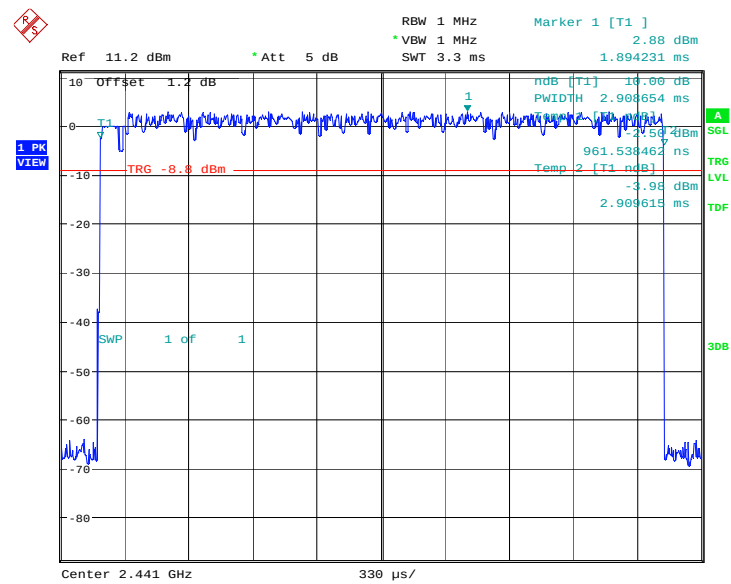
Date: 21.FEB.2014 17:37:34

Fig.96. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH3



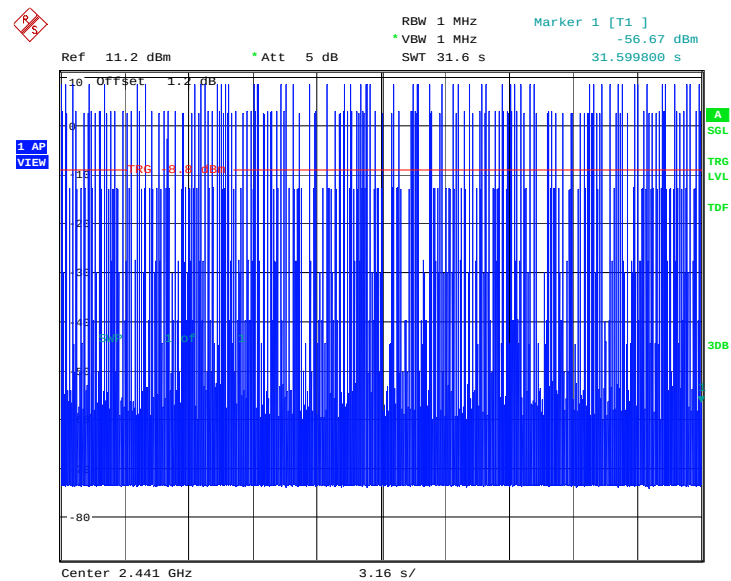
Date: 21.FEB.2014 17:37:22

Fig.97. Number of Transmissions Measurement:Channel 39,Packet 2-DH3



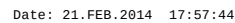
Date: 21.FEB.2014 17:38:50

Fig.98. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH5



Date: 21.FEB.2014 17:38:38

Fig.99. Number of Transmissions Measurement:Channel 39,Packet 2-DH5



RBW 1 MHz VBW 1 MHz Marker 1 [T1] 8.67 dBm

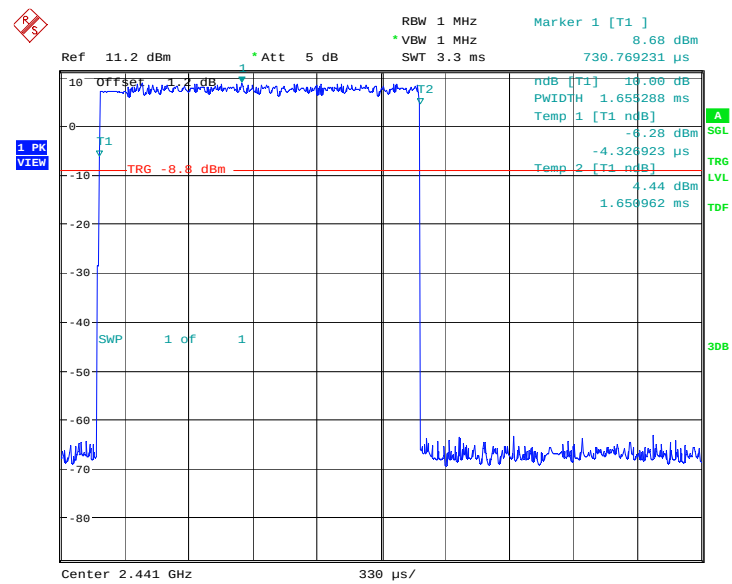
Ref 11.2 dBm Att 5 dB SWT 31.6 s 31.599800 s

1 AP View

Center 2.441 GHz 3.16 s/

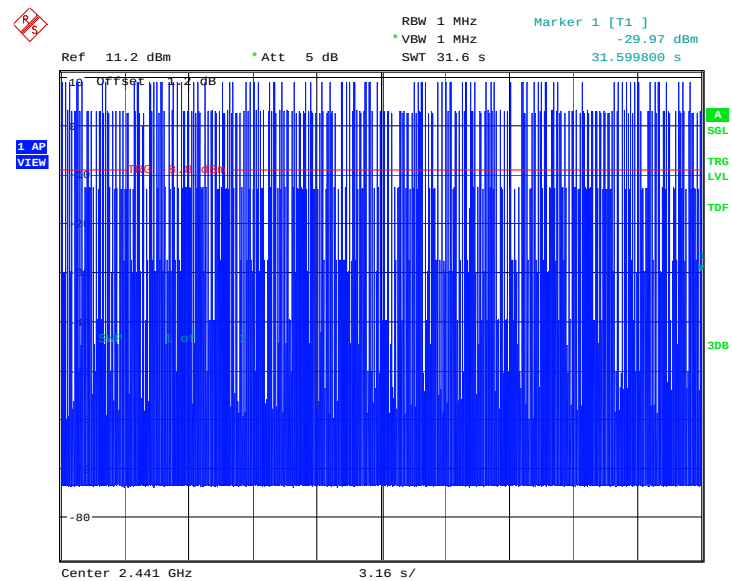
Date: 21.FEB.2014 17:57:32

Fig.101. Number of Transmissions Measurement:Channel 39,Packet 3-DH1



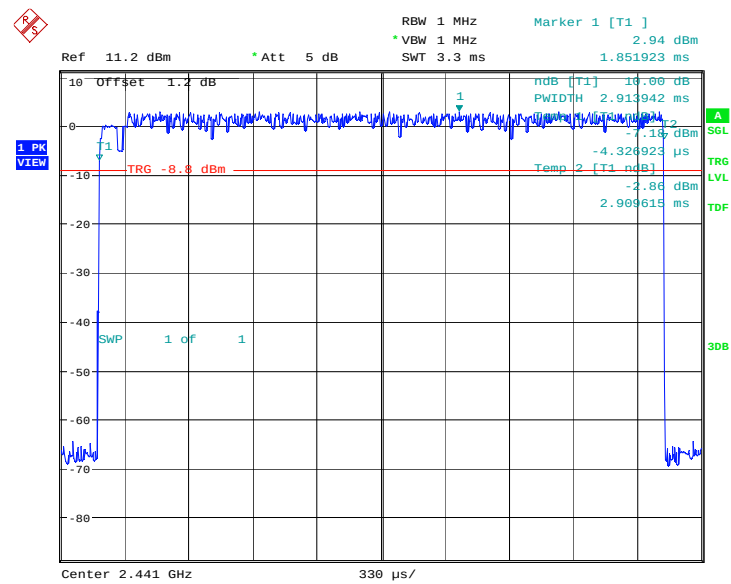
Date: 21.FEB.2014 17:59:04

Fig.102. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH3



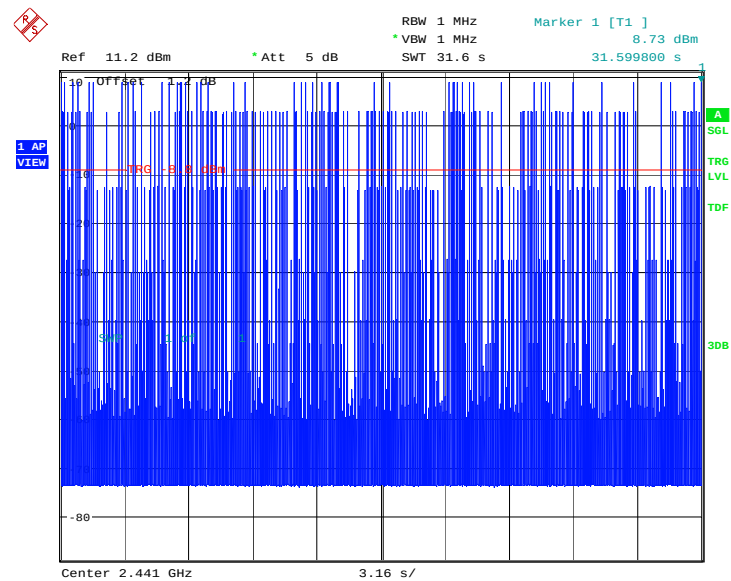
Date: 21.FEB.2014 17:58:52

Fig.103. Number of Transmissions Measurement:Channel 39,Packet 3-DH3



Date: 21.FEB.2014 18:00:20

Fig.104. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH5



Date: 21.FEB.2014 18:00:08

Fig.105. Number of Transmissions Measurement:Channel 39,Packet 3-DH5

A.7. 20dB Bandwidth

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)(1)	NA *

The measurement is made according to ANSI C63.10

* Comment: This test case is not required according to the latest FCC 47 CFR Part 15.247. But the test results are necessary for “carrier frequency separation” test case, in Annex A.8.

Measurement Results:

For GFSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.106	870.19	NA
39	Fig.107	870.19	NA
78	Fig.108	870.19	NA

For $\pi/4$ DQPSK

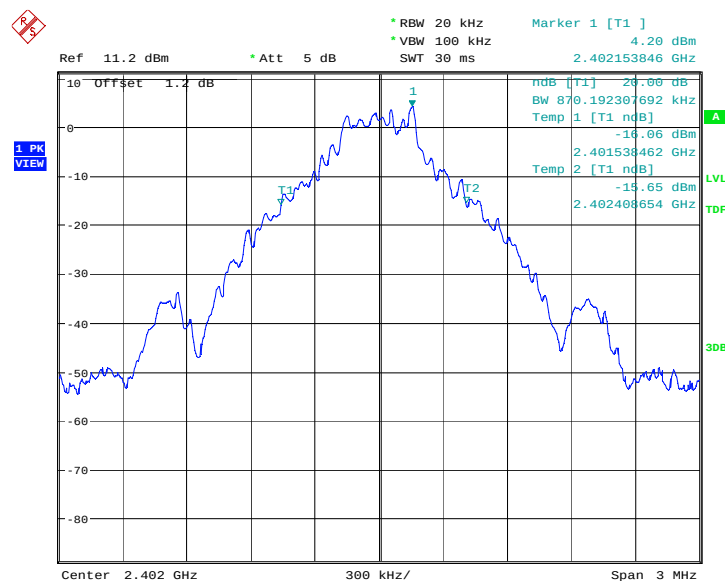
Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.109	1293.27	NA
39	Fig.110	1293.23	NA
78	Fig.111	1288.46	NA

For 8DPSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.112	1293.27	NA
39	Fig.113	1264.42	NA
78	Fig.114	1288.46	NA

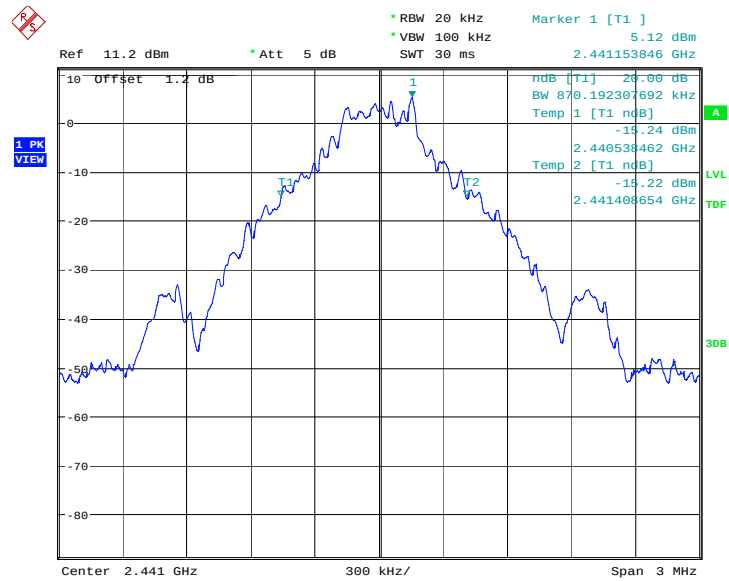
Conclusion: NA

Test graphs as below:



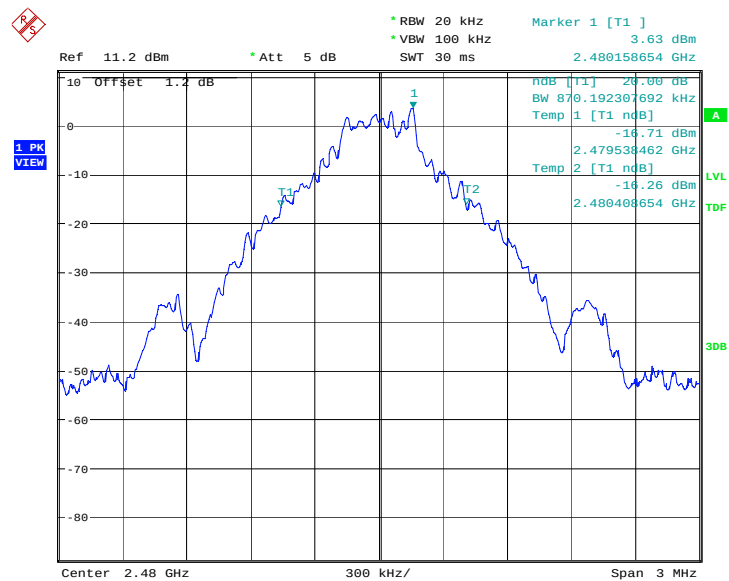
Date: 21.FEB.2014 17:17:54

Fig.106. 20dB Bandwidth: GFSK, Channel 0



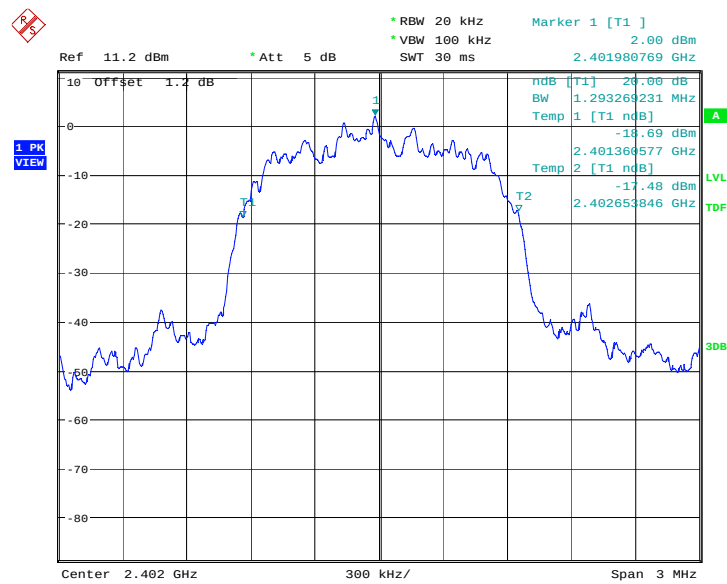
Date: 21.FEB.2014 17:18:25

Fig.107. 20dB Bandwidth: GFSK, Channel 39



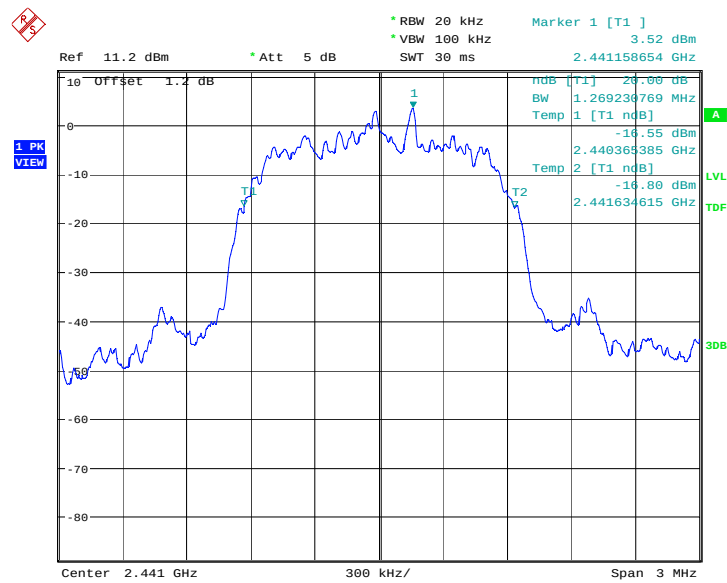
Date: 21.FEB.2014 17:18:57

Fig.108. 20dB Bandwidth: GFSK, Channel 78



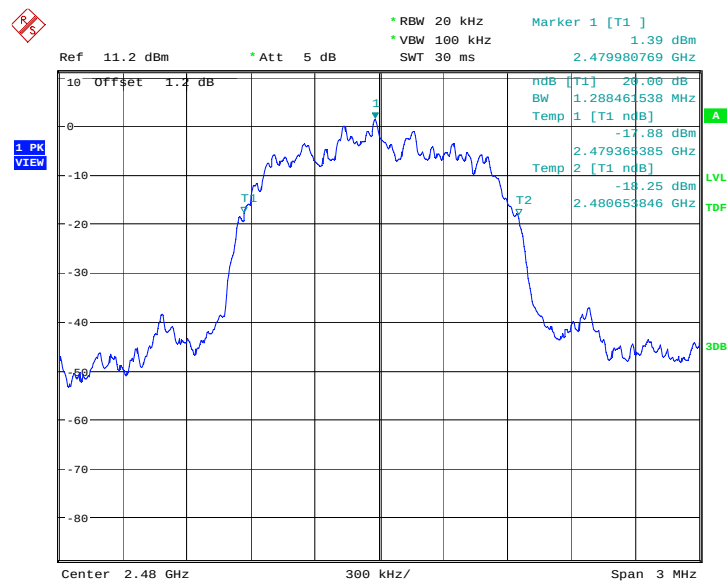
Date: 21.FEB.2014 17:39:24

Fig.109. 20dB Bandwidth: $\pi/4$ DQPSK, Channel 0



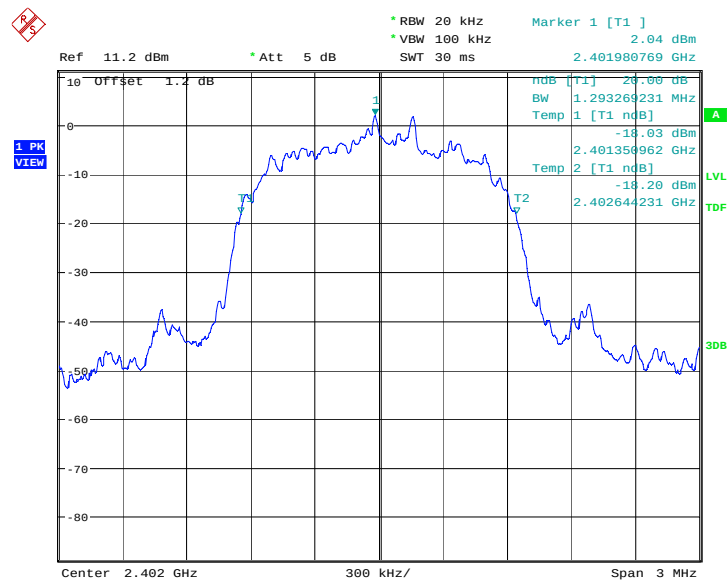
Date: 21.FEB.2014 17:39:56

Fig.110. 20dB Bandwidth: $\pi/4$ DQPSK, Channel 39



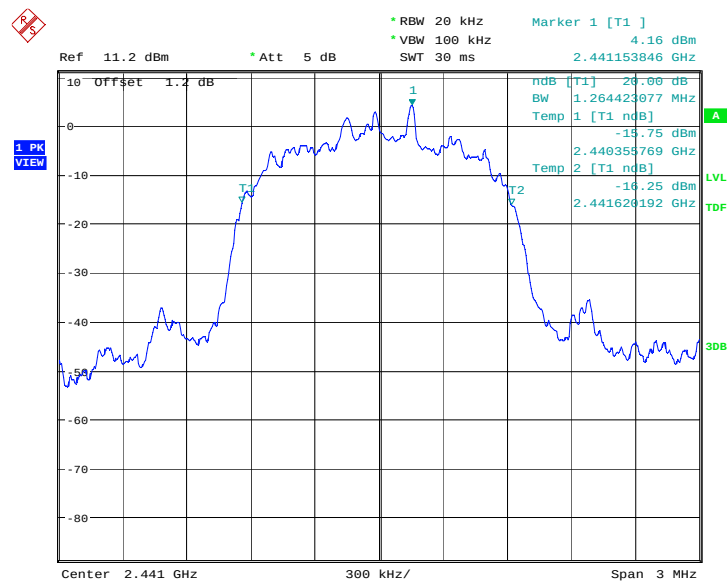
Date: 21.FEB.2014 17:40:28

Fig.111. 20dB Bandwidth: $\pi/4$ DQPSK, Channel 78



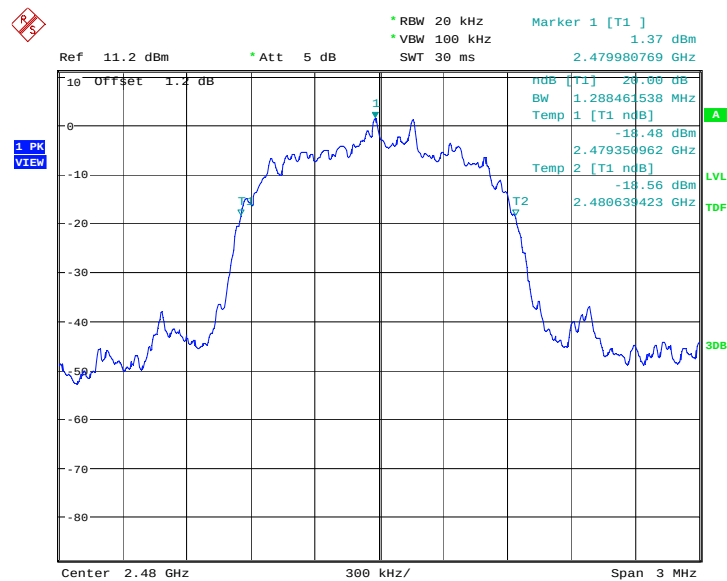
Date: 21.FEB.2014 18:00:54

Fig.112. 20dB Bandwidth: 8DPSK, Channel 0



Date: 21.FEB.2014 18:01:26

Fig.113. 20dB Bandwidth: 8DPSK, Channel 39



Date: 21.FEB.2014 18:01:58

Fig.114. 20dB Bandwidth: 8DPSK, Channel 78

A.8. Carrier Frequency Separation

Measurement Limit:

Standard	Limit(kHz)
FCC 47 CFR Part 15.247(a)(1)	over 25 kHz or $(2/3) * 20\text{dB bandwidth}$

The measurement is made according to ANSI C63.10

* Comment: This limit should be over 25 kHz or $(2/3) * 20\text{dB bandwidth}$, whichever is greater.

Measurement Result:

For GFSK

Channel	Carrier frequency separation (kHz)	Conclusion
39	Fig.115	P

For $\pi/4$ DQPSK

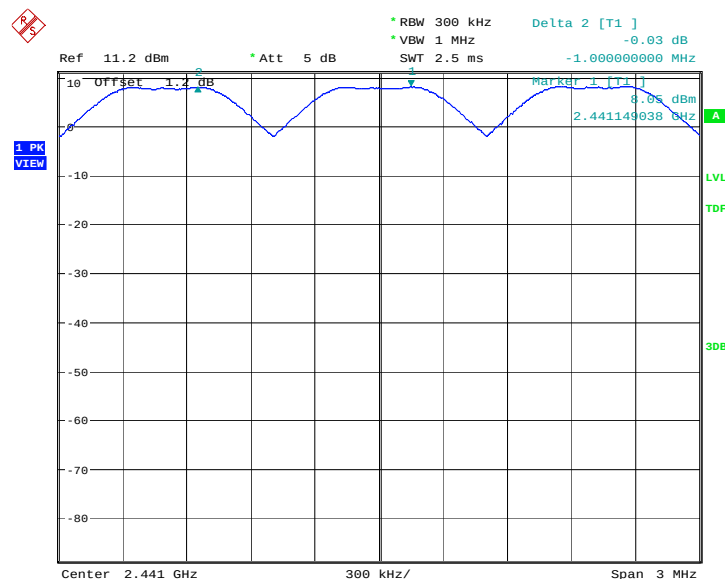
Channel	Carrier frequency separation (kHz)	Conclusion
39	Fig.116	P

For 8DPSK

Channel	Carrier frequency separation (kHz)	Conclusion
39	Fig.117	P

Conclusion: PASS

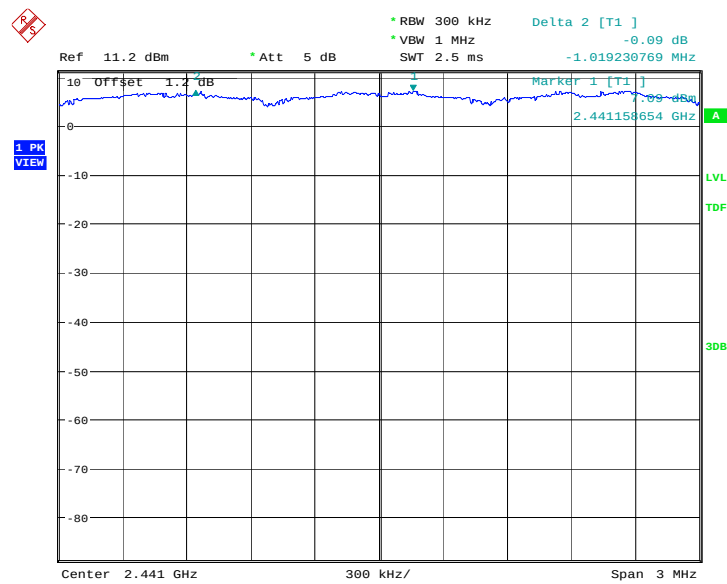
Test graphs as below:



Date: 21.FEB.2014 17:21:02

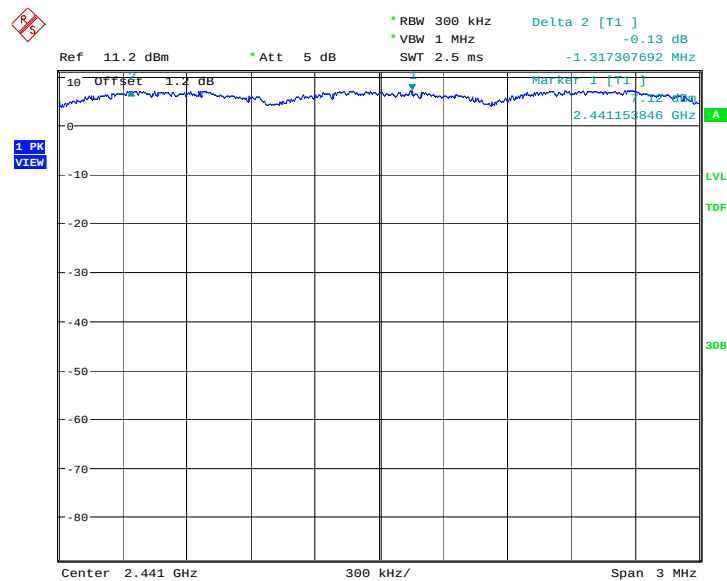
Fig.115. Carrier frequency separation measurement: GFSK, Channel 39

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Date: 21.FEB.2014 17:42:32

Fig.116. Carrier frequency separation measurement: $\pi/4$ DQPSK, Channel 39



Date: 21.FEB.2014 18:04:02

Fig.117. Carrier frequency separation measurement: 8DPSK, Channel 39

A.9. 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 made according to ANSI C63.10

Measurement Result:

For GFSK

Channel	Number of hopping channels	Conclusion
0~39	Fig.118	P
40~78	Fig.119	

For $\pi/4$ DQPSK

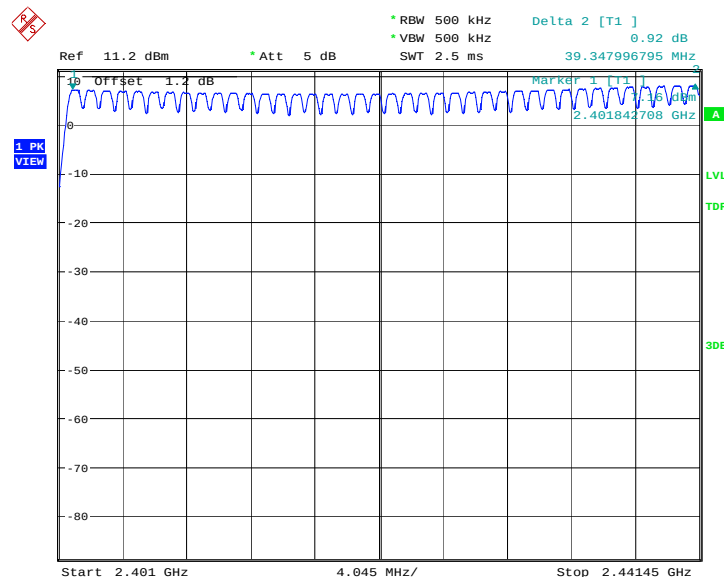
Channel	Number of hopping channels	Conclusion
0~39	Fig.120	P
40~78	Fig.121	

For 8DPSK

Channel	Number of hopping channels	Conclusion
0~39	Fig.122	P
40~78	Fig.123	

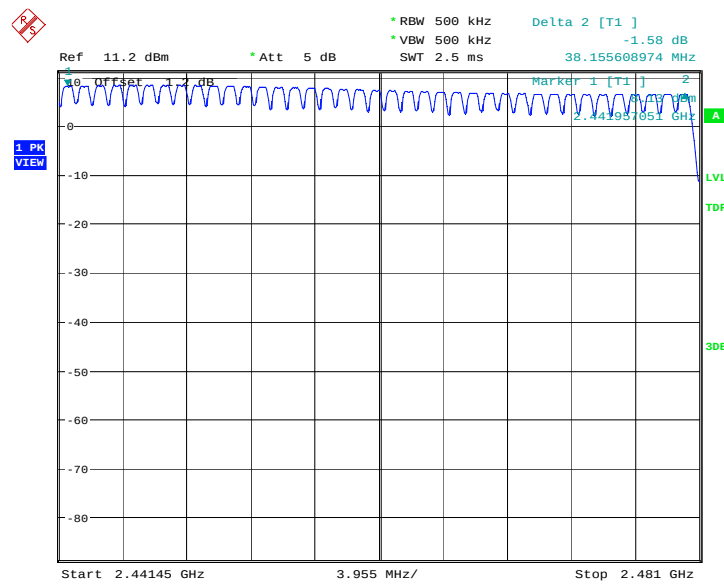
Conclusion: PASS

Test graphs as below:



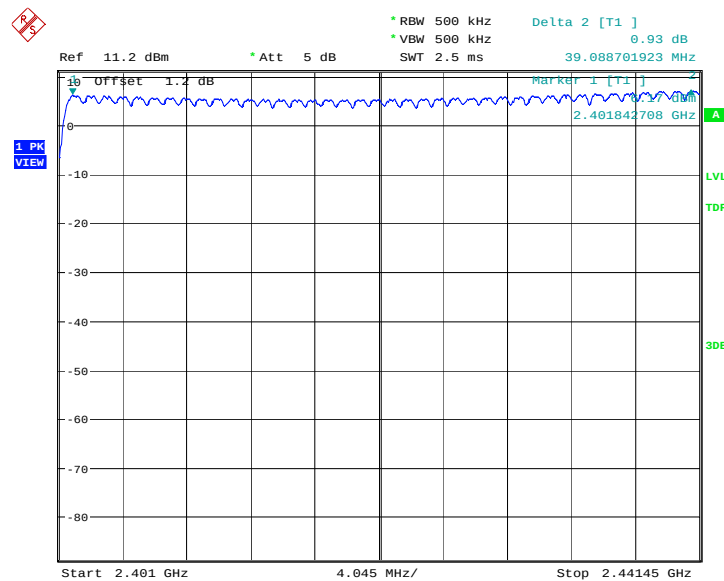
Date: 21.FEB.2014 17:23:05

Fig.118. Number of hopping frequencies: GFSK, Channel 0 - 39



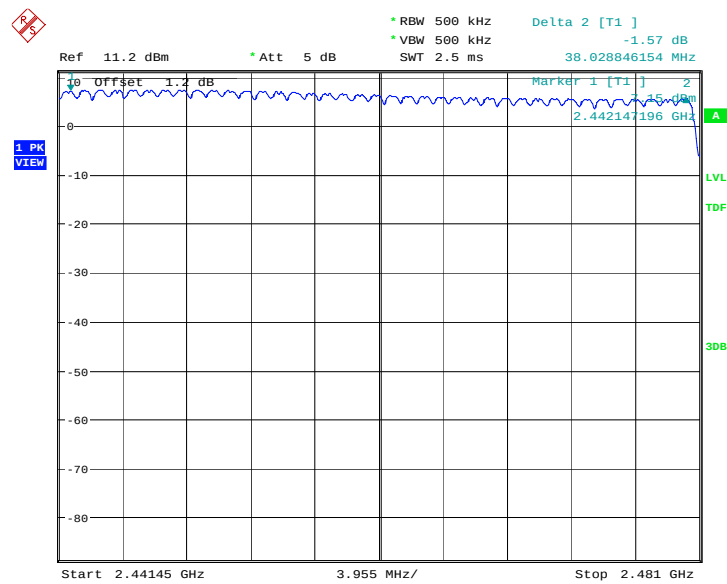
Date: 21.FEB.2014 17:25:08

Fig.119. Number of hopping frequencies: GFSK, Channel 40 - 78



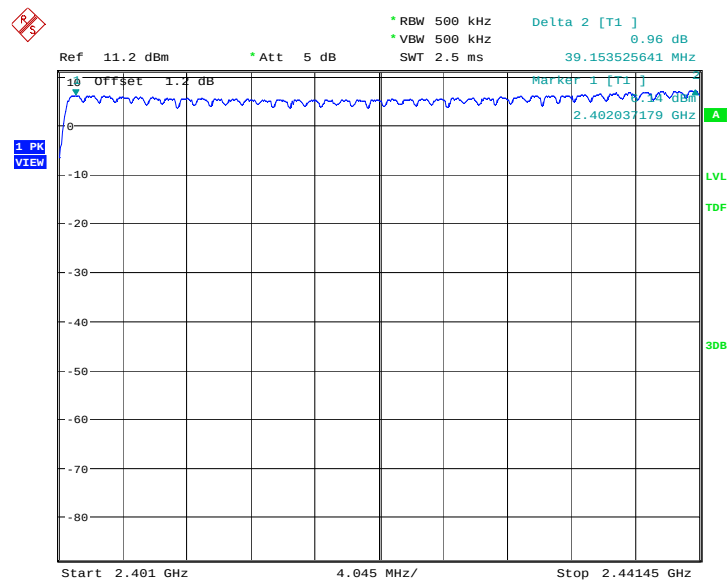
Date: 21.FEB.2014 17:44:36

Fig.120. Number of hopping frequencies: $\pi/4$ DQPSK, Channel 0 - 39



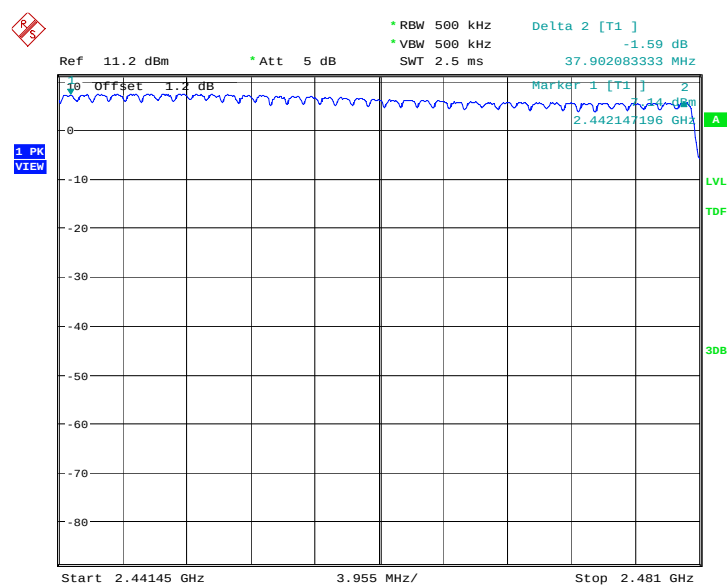
Date: 21.FEB.2014 17:46:39

Fig.121. Number of hopping frequencies: $\pi/4$ DQPSK, Channel 40 - 78



Date: 21.FEB.2014 18:06:07

Fig.122. Number of hopping frequencies: 8DPSK, Channel 0 - 39



Date: 21.FEB.2014 18:08:09

Fig.123. Number of hopping frequencies: 8DPSK, Channel 40 - 78

A.10. AC Powerline Conducted Emission

Test Condition

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

Bluetooth (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Conclusion
0.15 to 0.5	66 to 56	P
0.5 to 5	56	
5 to 30	60	

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Bluetooth (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Conclusion
0.15 to 0.5	56 to 46	P
0.5 to 5	46	
5 to 30	50	

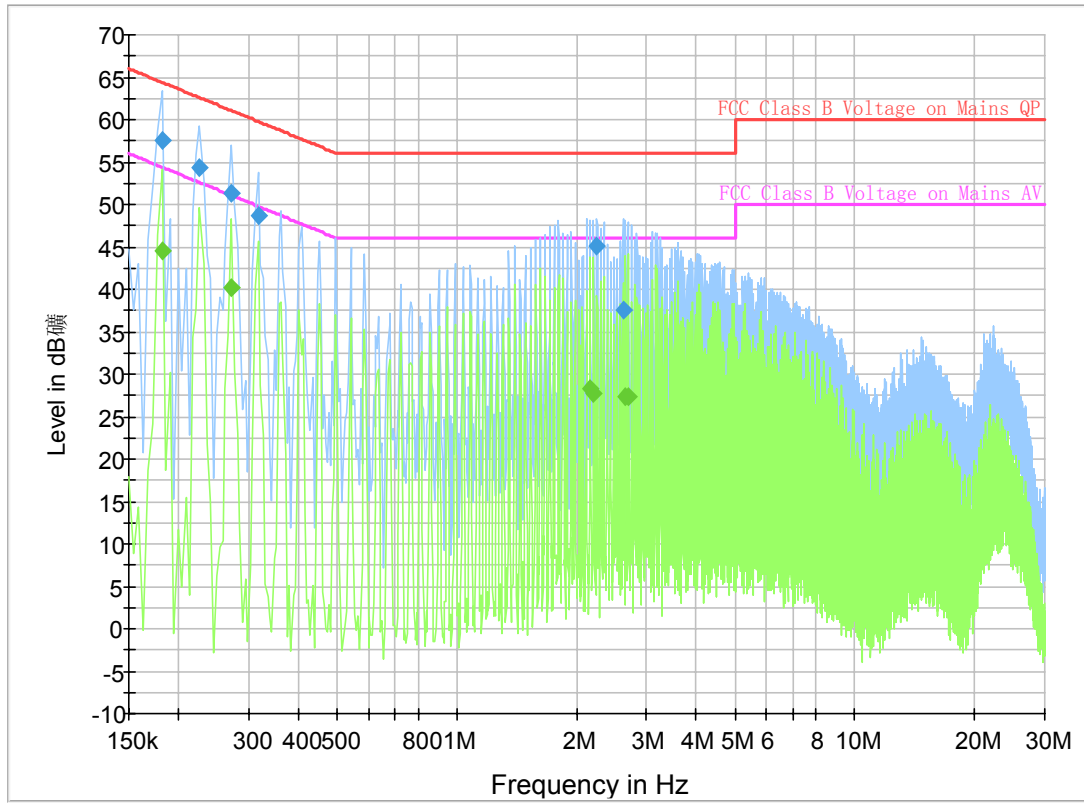
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10

Conclusion: PASS

Test graphs as below:

Traffic:

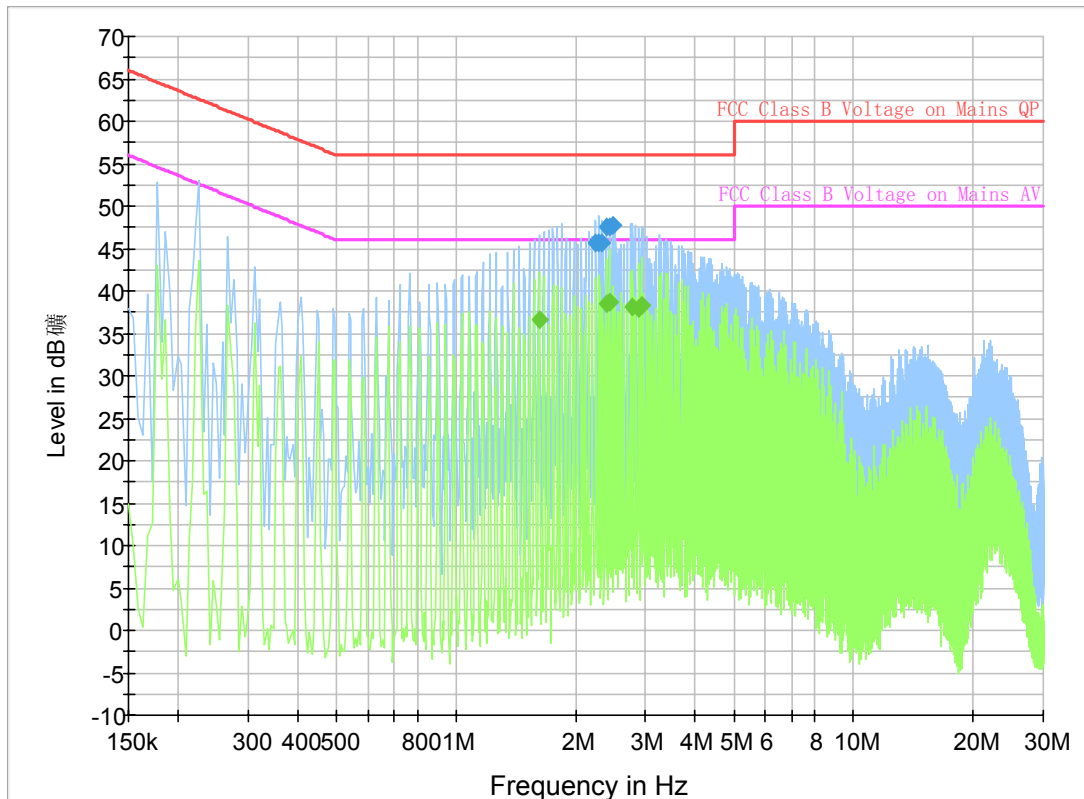
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.181500	57.5	GND	L1	9.8	6.9	64.4
0.226500	54.4	GND	L1	9.8	8.2	62.6
0.271500	51.4	GND	L1	9.8	9.7	61.1
0.316500	48.7	GND	L1	9.8	11.1	59.8
2.251500	45.0	GND	N	9.7	11.0	56.0
2.616000	37.5	GND	L1	9.7	18.5	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.181500	44.4	GND	L1	9.8	10.0	54.4
0.271500	40.2	GND	L1	9.8	10.8	51.1
2.166000	28.3	GND	L1	9.7	17.7	46.0
2.211000	27.8	GND	L1	9.7	18.2	46.0
2.661000	27.3	GND	L1	9.7	18.7	46.0
2.706000	27.3	GND	L1	9.7	18.7	46.0

Idle:

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
2.247000	45.7	GND	N	9.7	10.3	56.0
2.292000	45.7	GND	N	9.7	10.3	56.0
2.337000	45.7	GND	N	9.7	10.3	56.0
2.382000	47.5	GND	L1	9.7	8.5	56.0
2.427000	47.5	GND	L1	9.7	8.5	56.0
2.472000	47.7	GND	L1	9.7	8.3	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
1.617000	36.7	GND	L1	9.7	9.3	46.0
2.382000	38.5	GND	L1	9.7	7.5	46.0
2.427000	38.7	GND	L1	9.7	7.3	46.0
2.787000	38.1	GND	N	9.7	7.9	46.0
2.877000	38.0	GND	L1	9.7	8.0	46.0
2.922000	38.3	GND	L1	9.7	7.7	46.0

*** END OF REPORT BODY ***