



FCC TEST REPORT

According to

FCC Rules and Regulations Part 15 Subpart C

Applicant : Shenzhen DZH industrial Co., Ltd

Address : 3F, 9Building, 9-10Block BuYong
industrial D Zone, ShaJing Street,
BaoAn district, Shenzhen, China

Equipment : Bluetooth TouchPad Keyboard

Model No. : C106,C108,C201

FCC ID. : 2ABH8C201

Trade Name : 

- The test result refers exclusively to the test presented test model / sample..
- Without written approval of **Cerpass Technology Corp.** the test report shall not be reproduced except in full.
- The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



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History of this test report

■ ORIGINAL.

Additional attachment as following record:

Attachment No.	Issue Date	Description
TEFB1310152	Nov. 04, 2013	Original.



CERTIFICATE OF COMPLIANCE

According to

FCC Rules and Regulations Part 15 Subpart C

Applicant : Shenzhen DZH industrial Co., Ltd

Address : 3F, 9Building, 9-10Block BuYong industrial
D Zone, ShaJing Street, BaoAn district,
Shenzhen, China

Equipment : Bluetooth TouchPad Keyboard

Model No. : C106,C108,C201

FCC ID. : 2ABH8C201

I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4** The equipment was **passed** the test performed according to **FCC Rules and Regulations Part 15 Subpart C (2010)**.

The test was carried out on Oct. 24, 2013 at **Cerpass Technology Corp.**

Approval by :

Test Engineer:

Hill Chen

EMC/RF B.U. Assistant Manager

Ben Lu

Engineer



1. Report of Measurements and Examinations

1.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	N/A
15.209	. Radiated Emission	Pass
15.247(a)(1)	. Channel Carrier Frequencies Separation	Pass
15.247(a)(1)	. 20dB Bandwidth Measurement	Pass
15.247(a)(1)	. Dwell Time	Pass
15.247(b)	. Number of Hopping Channels	Pass
15.247(b)	. Peak Output Power Measurement Data	Pass
15.247(d)	. Band Edges Measurement Data	Pass



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

- Bluetooth V3.0 Class 2 BQB certificated
- Build-in Bluetooth HID Profile
- LED Indicators for Bluetooth status and Battery status
- LED Indicators for Caps Lock, Num. Lock and Scroll Lock
- Keyboard Report Format Supports standard key, system and multimedia key
- Touch Report Format supports X, Y, Z axis
- Touchpad Report Format Support L, M, R, Previous, Next Scroll Left and Right
- Data Report Rate from 80 to 115 Hz
- Sleep Mode
- Stop Mode

2.2 Carrier Frequency of Channels

Channel	Frequency (MHz)						
00	2402	20	2422	40	2442	60	2462
01	2403	21	2423	41	2443	61	2463
02	2404	22	2424	42	2444	62	2464
03	2405	23	2425	43	2445	63	2465
04	2406	24	2426	44	2446	64	2466
05	2407	25	2427	45	2447	65	2467
06	2408	26	2428	46	2448	66	2468
07	2409	27	2429	47	2449	67	2469
08	2410	28	2430	48	2450	68	2470
09	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	---	---



2.3 Test Mode & Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4
- b. The test program “EDR_RF_TEST” was executed to keep transmit and receive data from EUT.
- c. The following test mode was performed for conduction and radiation test:
 - GFSK: CH 00: 2402MHz, CH 39: 2441MHz, CH 78: 2480MHz.
 - $\pi/4$ -DQPSK: CH 00: 2402MHz, CH 39: 2441MHz, CH 78: 2480MHz.
 - 8DPSK: CH 00: 2402MHz, CH 39: 2441MHz, CH 78: 2480MHz.

2.4 Description of Test System

Device	Manufacturer	Model No.	Description
Mouse	DELL	M-UV83	USB Cable, Shielding 1.85m
Notebook	ASUS	A8J	Power Cable, Unshielding 1.8m
Test Fixture	N/A	N/A	N/A

Use cable

Cable	Quantity	Description
USB	1	Shielding, 0.45m
USB to RS232	1	Shielding, 1.8m
RS232	1	Shielding, 1.8m



2.5 General Information of Test

Test Site :	Cerpass Technology Corp. 2F-11, No. 3, Yuan Qu St., (Nankang Software Park), Taipei, Taiwan 115, R.O.C.
Test Site Location (OATS2-SD) :	No.68-1, Shihbachongsi, Shihding Township, Taipei City 223, Taiwan, R.O.C.
FCC Registration Number:	TW1049, TW1061, 390316, 488071
IC Registration Number :	4934B-1, 4934D-1
VCCI Registration Number:	T-1173 for Telecommunication Test C-4139 for Conducted emission test R-3428 for Radiated emission test G-97 for Radiated emission test above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 24800MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.
Laboratory Accreditation :	 Testing Laboratory 1439

2.6 Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE/NEUTRAL	3.25 dB
Radiated Emission	30 MHz ~ 1,000 MHz	Vertical / Horizontal	3.93 dB
	1,000 MHz ~ 18,000 MHz	Vertical / Horizontal	5.18dB
6 dB Bandwidth	---	---	7500 Hz
Maximum Peak Output Power	---	---	1.4 dB
100kHz Bandwidth of Frequency Band Edges	---	---	2.2 dB
Power Spectral Density	---	---	2.2 dB



3. Antenna Requirements

3.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

3.2 Antenna Construction and Directional Gain

Antenna type: PCB Antenna

Antenna Gain: 2 dBi



4. Test of Conducted Emission

4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2009 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

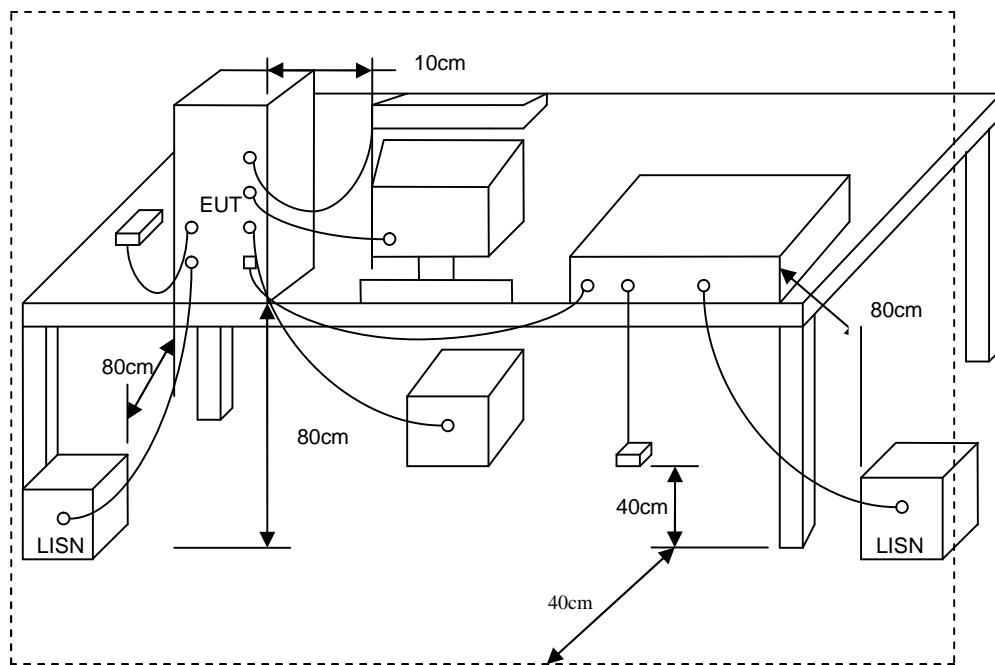
*Decreases with the logarithm of the frequency.

4.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



4.3 Typical Test Setup



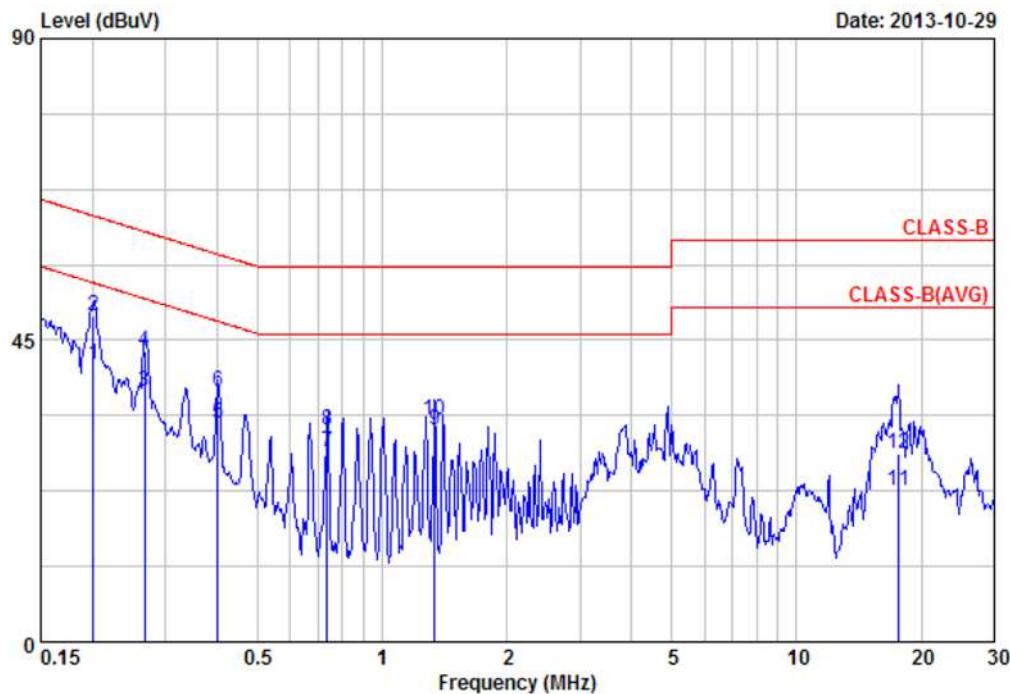
4.4 Measurement Equipment

Instrument	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI	100821	2013/09/18	2014/09/17
LISN	Schwarzbeck	NSLK 8127	8127-516	2013/03/08	2014/03/07
LISN	Schwarzbeck	NSLK 8127	8127-568	2013/08/30	2014/08/29
Attenuator	HAMEG	HZ560	-----	2013/03/07	2014/03/06



4.5 Test Result and Data

Power	:	From System	Pol/Phase	:	LINE
Test Mode 1	:	GFSK, CH0	Temperature	:	25 °C
Memo	:		Humidity	:	50 %



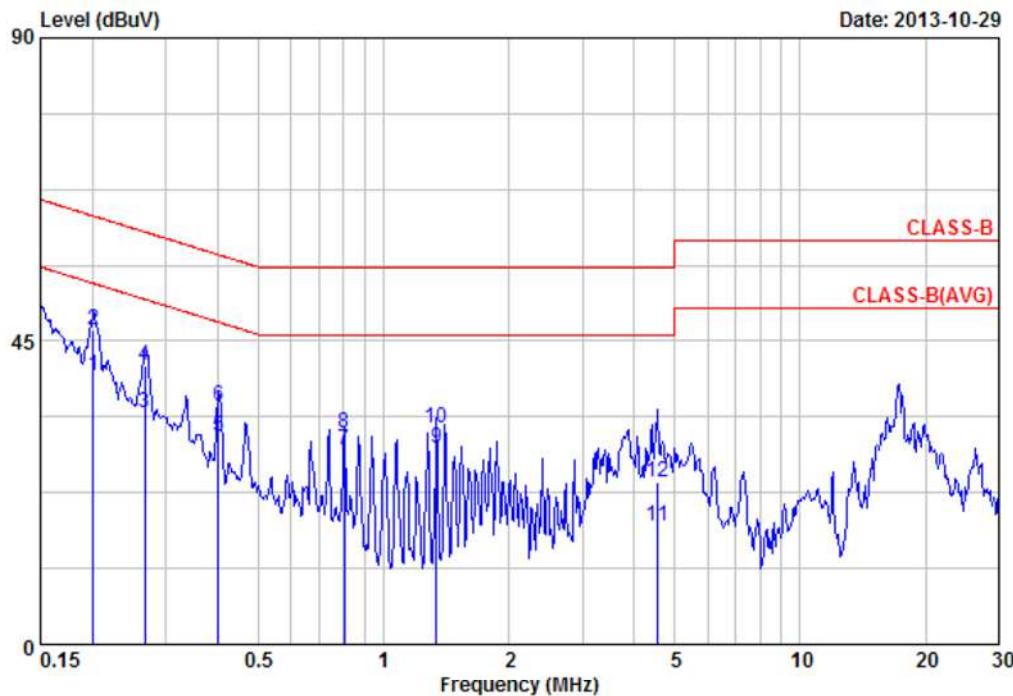
Item	Freq	Read		Result	Limit	Margin	Remark
		MHz	dBuV				
1	0.201	0.201	41.32	41.44	53.58	-12.14	Average
2	0.201	0.201	48.64	48.76	63.58	-14.82	QP
3	0.267	0.267	37.29	37.41	51.20	-13.79	Average
4	0.267	0.267	43.22	43.34	61.20	-17.86	QP
5	0.402	0.402	32.45	32.58	47.81	-15.23	Average
6	0.402	0.402	37.10	37.23	57.81	-20.58	QP
7	0.736	0.736	28.19	28.36	46.00	-17.64	Average
8	0.736	0.736	31.40	31.57	56.00	-24.43	QP
9	1.339	1.339	31.34	31.56	46.00	-14.44	Average
10	1.339	1.339	32.90	33.12	56.00	-22.88	QP
11	17.661	17.661	21.57	22.47	50.00	-27.53	Average
12	17.661	17.661	27.28	28.18	60.00	-31.82	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power :	From System	Pol/Phase :	NEUTRAL
Test Mode 1 :	GFSK, CH0	Temperature :	25 °C
Memo :		Humidity :	50 %



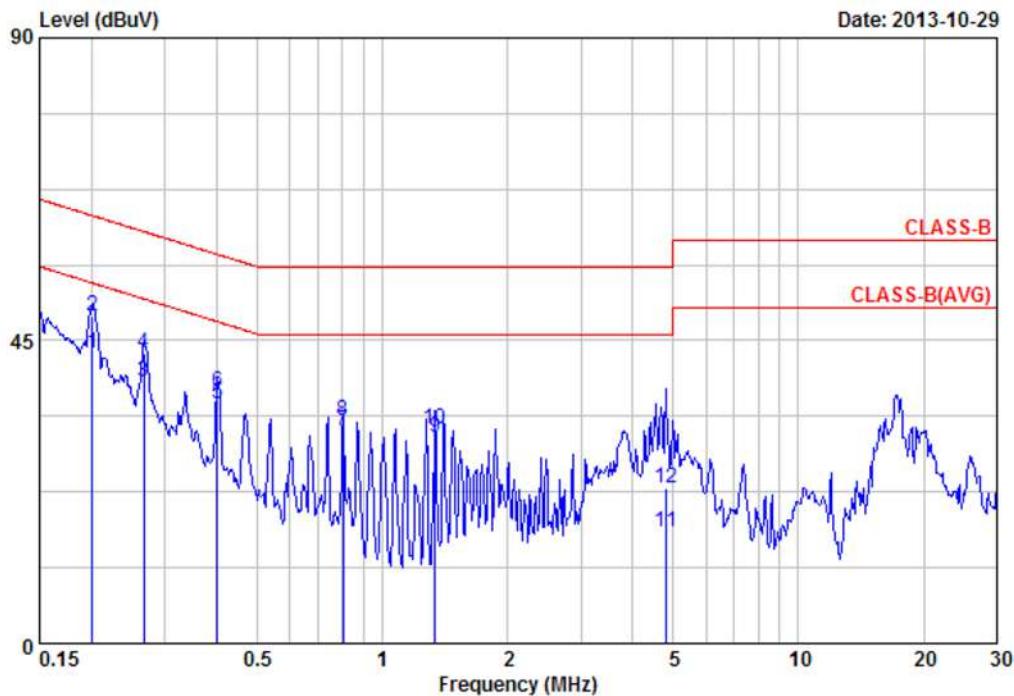
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.201	39.74	0.10	39.84	53.58	-13.74	Average
2	0.201	46.48	0.10	46.58	63.58	-17.00	QP
3	0.267	34.20	0.10	34.30	51.20	-16.90	Average
4	0.267	41.36	0.10	41.46	61.20	-19.74	QP
5	0.402	30.70	0.12	30.82	47.81	-16.99	Average
6	0.402	35.29	0.12	35.41	57.81	-22.40	QP
7	0.804	28.68	0.16	28.84	46.00	-17.16	Average
8	0.804	31.14	0.16	31.30	56.00	-24.70	QP
9	1.338	28.91	0.20	29.11	46.00	-16.89	Average
10	1.338	31.86	0.20	32.06	56.00	-23.94	QP
11	4.525	17.32	0.34	17.66	46.00	-28.34	Average
12	4.525	23.74	0.34	24.08	56.00	-31.92	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power	: From System	Pol/Phase	: LINE
Test Mode 2	: $\pi/4$ -DQPSK, CH0	Temperature	: 25 °C
Memo	:	Humidity	: 50 %



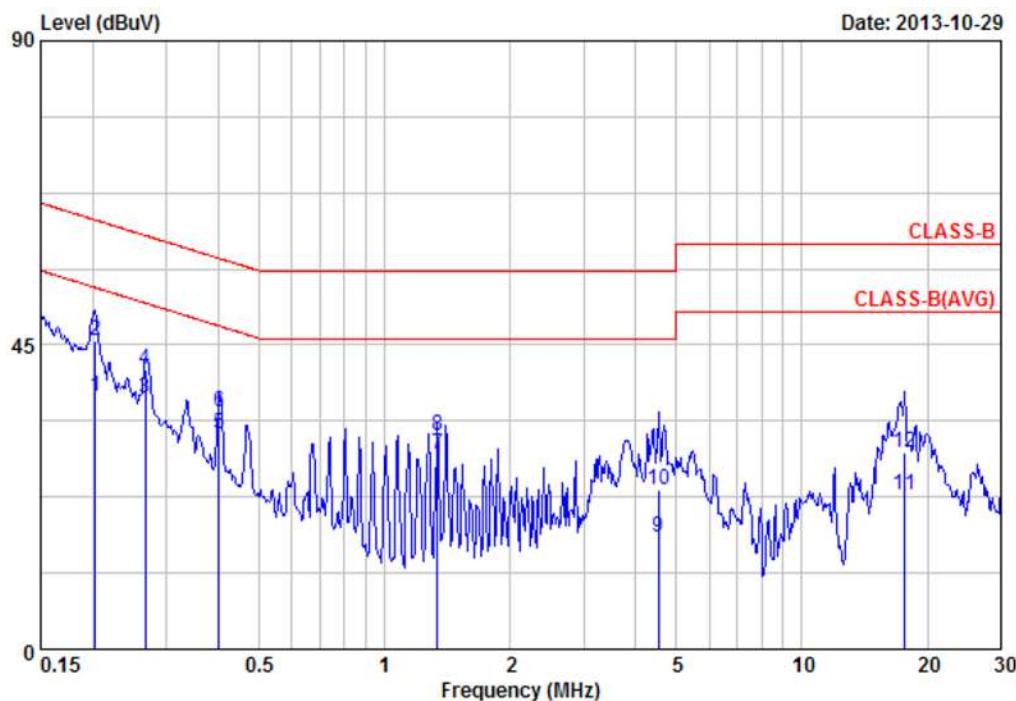
Item	Read Freq	Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.201	42.97	0.12	43.09	53.58	-10.49	Average
2	0.201	48.43	0.12	48.55	63.58	-15.03	QP
3	0.267	38.86	0.12	38.98	51.20	-12.22	Average
4	0.267	43.12	0.12	43.24	61.20	-17.96	QP
5	0.402	35.58	0.13	35.71	47.81	-12.10	Average
6	0.402	37.25	0.13	37.38	57.81	-20.43	QP
7	0.804	31.42	0.18	31.60	46.00	-14.40	Average
8	0.804	32.96	0.18	33.14	56.00	-22.86	QP
9	1.338	30.46	0.22	30.68	46.00	-15.32	Average
10	1.338	31.72	0.22	31.94	56.00	-24.06	QP
11	4.802	16.26	0.38	16.64	46.00	-29.36	Average
12	4.802	22.59	0.38	22.97	56.00	-33.03	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power	: From System	Pol/Phase	: NEUTRAL
Test Mode 2	: $\pi/4$ -DQPSK, CH0	Temperature	: 25 °C
Memo	:	Humidity	: 50 %



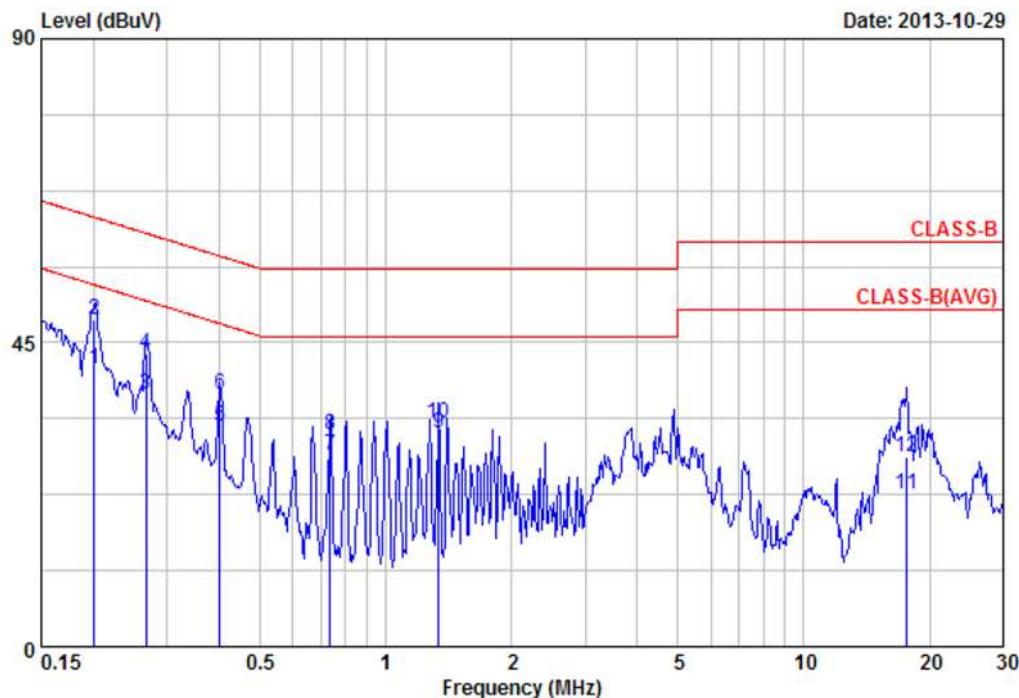
Item	Freq	Read		Result	Limit	Margin	Remark
		Value	Factor				
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.203	37.13	0.10	37.23	53.49	-16.26	Average
2	0.203	45.58	0.10	45.68	63.49	-17.81	QP
3	0.267	37.11	0.10	37.21	51.20	-13.99	Average
4	0.267	41.33	0.10	41.43	61.20	-19.77	QP
5	0.402	31.82	0.12	31.94	47.81	-15.87	Average
6	0.402	34.96	0.12	35.08	57.81	-22.73	QP
7	1.338	28.62	0.20	28.82	46.00	-17.18	Average
8	1.338	31.50	0.20	31.70	56.00	-24.30	QP
9	4.525	16.20	0.34	16.54	46.00	-29.46	Average
10	4.525	23.25	0.34	23.59	56.00	-32.41	QP
11	17.590	22.24	0.69	22.93	50.00	-27.07	Average
12	17.590	28.45	0.69	29.14	60.00	-30.86	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power	: From System	Pol/Phase	: LINE
Test Mode 3	: 8DPSK	Temperature	: 25 °C
Memo		Humidity	: 50 %



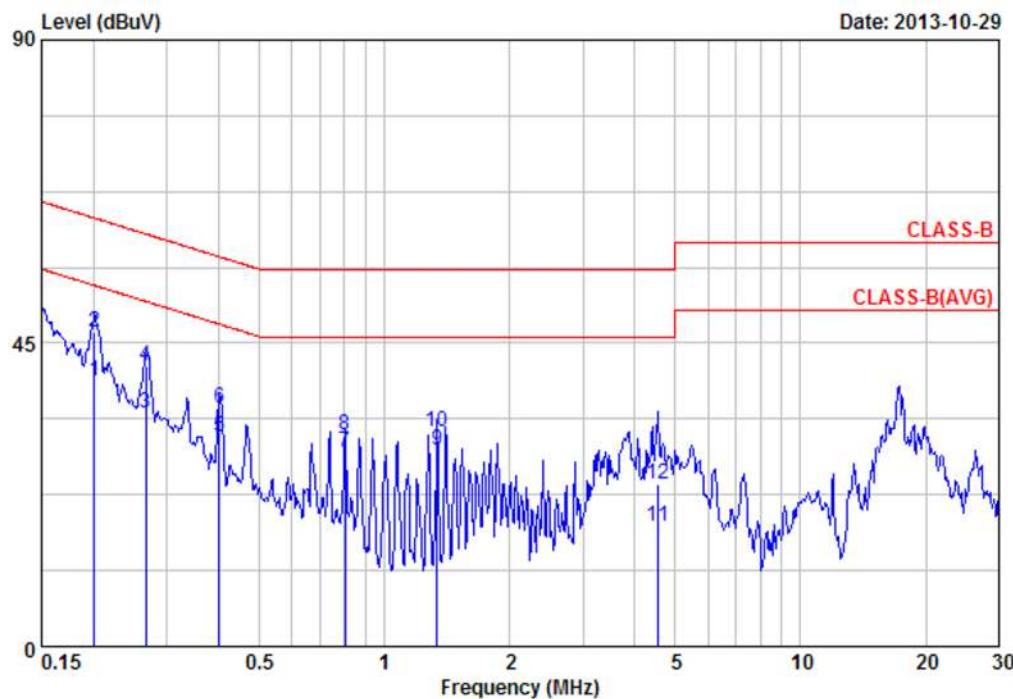
Item	Freq	Read		Result	Limit	Margin	Remark
		Value	Factor				
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.201	41.07	0.12	41.19	53.58	-12.39	Average
2	0.201	48.34	0.12	48.46	63.58	-15.12	QP
3	0.267	37.13	0.12	37.25	51.20	-13.95	Average
4	0.267	43.16	0.12	43.28	61.20	-17.92	QP
5	0.402	32.57	0.13	32.70	47.81	-15.11	Average
6	0.402	37.13	0.13	37.26	57.81	-20.55	QP
7	0.736	28.05	0.17	28.22	46.00	-17.78	Average
8	0.736	31.18	0.17	31.35	56.00	-24.65	QP
9	1.339	31.42	0.22	31.64	46.00	-14.36	Average
10	1.339	32.88	0.22	33.10	56.00	-22.90	QP
11	17.661	21.54	0.90	22.44	50.00	-27.56	Average
12	17.661	27.15	0.90	28.05	60.00	-31.95	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power	:	From System	Pol/Phase	:	NEUTRAL
Test Mode 3	:	8DPSK	Temperature	:	25 °C
Memo	:		Humidity	:	50 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.201	39.22	0.10	39.32	53.58	-14.26	Average
2	0.201	46.50	0.10	46.60	63.58	-16.98	QP
3	0.267	34.61	0.10	34.71	51.20	-16.49	Average
4	0.267	41.54	0.10	41.64	61.20	-19.56	QP
5	0.402	30.97	0.12	31.09	47.81	-16.72	Average
6	0.402	35.35	0.12	35.47	57.81	-22.34	QP
7	0.804	28.65	0.16	28.81	46.00	-17.19	Average
8	0.804	31.26	0.16	31.42	56.00	-24.58	QP
9	1.338	28.84	0.20	29.04	46.00	-16.96	Average
10	1.338	31.64	0.20	31.84	56.00	-24.16	QP
11	4.525	17.38	0.34	17.72	46.00	-28.28	Average
12	4.525	23.62	0.34	23.96	56.00	-32.04	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



5. Test of Radiated Emission

5.1 Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2009. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions. For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated (μ V / M)	Radiated (dB μ V / M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.

Frequency (MHz)	Distance Meters	Radiated (dB μ V / M)
30-230	10	30
230-1000	10	37

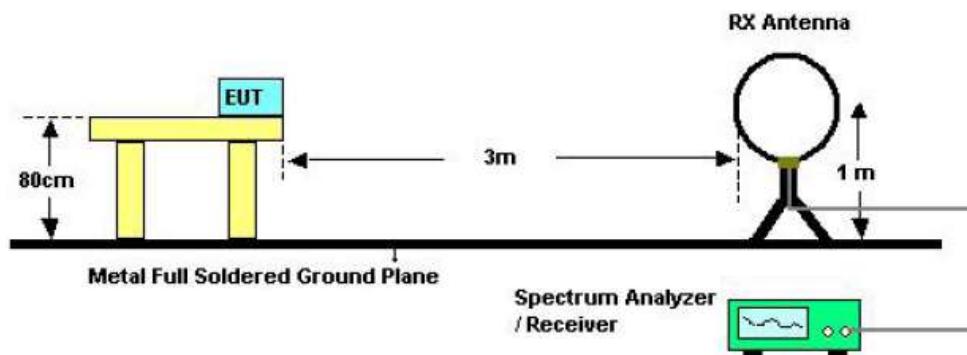
5.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

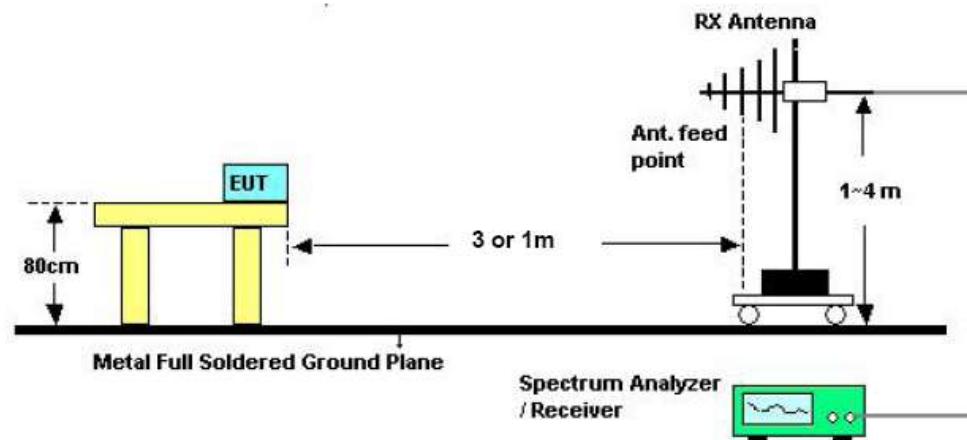


5.3 Typical Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1m]})$ (dB);
Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

5.4 Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI	100443	2013/01/15	2014/01/14
Bilog Antenna	Schwarzbeck	VULB 9168	369	2013/03/06	2014/03/05
Amplifier	QuieTek	AP/0100A	CHM0906075	2013/01/15	2014/01/14
SPECTRUM ANALYZER	R&S	FSP40	100219	2013/09/14	2014/09/13
HORN ANTENNA	EMCO	3115	31589	2013/03/18	2014/03/17
PREAMPLIFIER	AGILENT	8449B	3008A01954	2013/03/07	2014/03/06

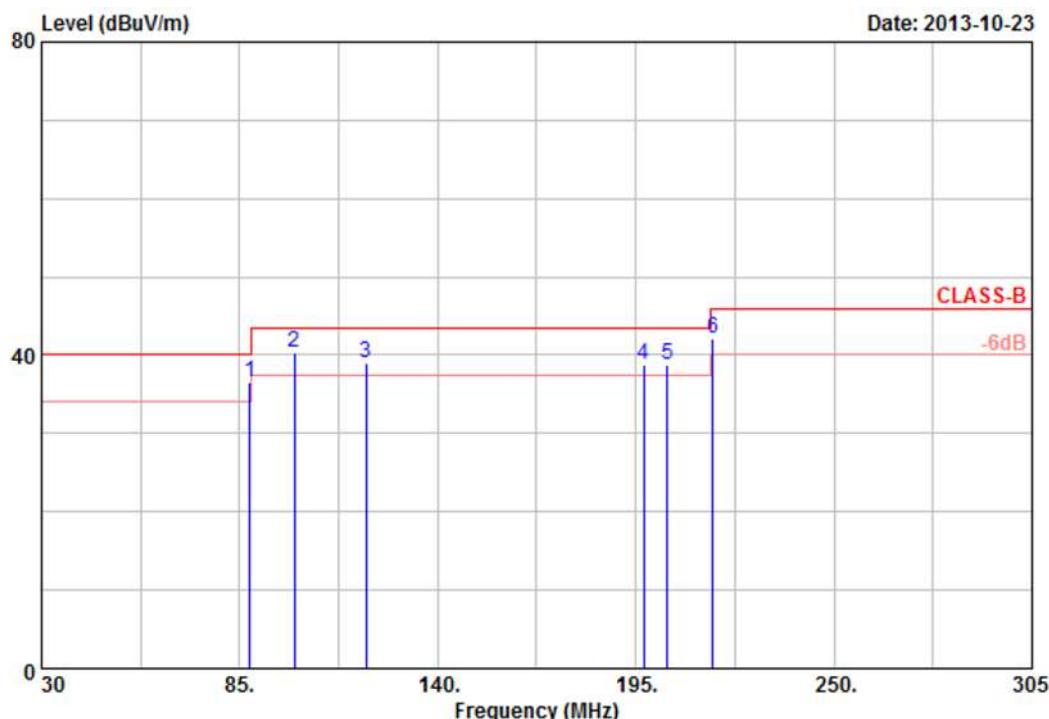


5.5 Test Result and Data (9kHz ~ 30MHz)

The 9kHz-30MHz spurious emission is under limit 20dB more.

5.6 Test Result and Data (30MHz ~ 1GHz)

Power	:	From System	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	GFSK (1 Mbps)	Atmospheric Pressure	:	1020 hPa



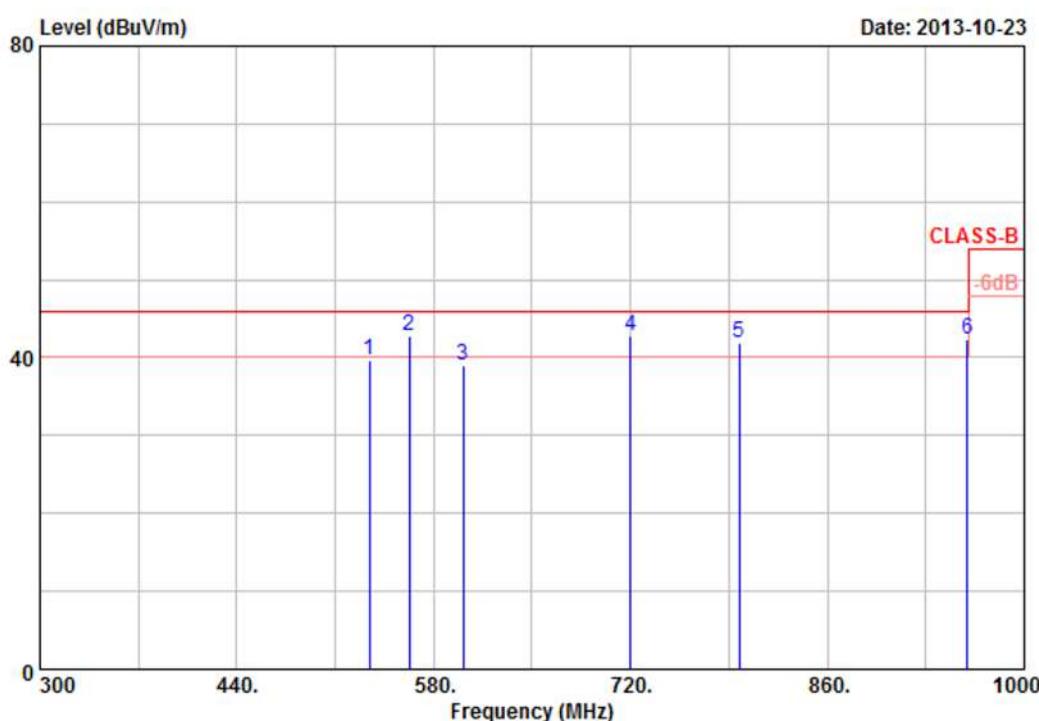
Item	Freq	Read			Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor	dBuV					Pos	Pos
	MHz						dB		cm	Deg
1	87.75	44.64	-8.18	36.46	40.00	-3.54	QP	100	360	
2	100.13	48.92	-8.69	40.23	43.50	-3.27	QP	100	360	
3	120.20	43.69	-4.66	39.03	43.50	-4.47	QP	100	360	
4	197.20	50.31	-11.58	38.73	43.50	-4.77	QP	100	360	
5	203.80	50.20	-11.53	38.67	43.50	-4.83	QP	100	360	
6	216.45	48.67	-6.59	42.08	46.00	-3.92	QP	100	360	

Remarks:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power	:	From System	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	GFSK (1 Mbps)	Atmospheric Pressure	:	1020 hPa

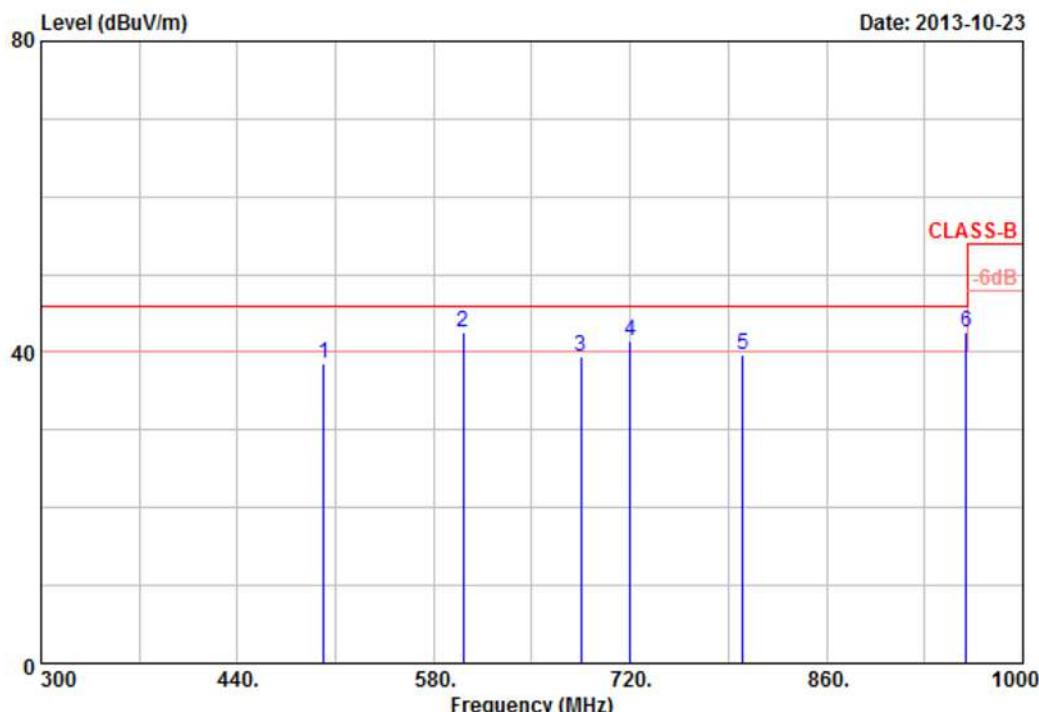


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	534.50	36.46	3.30	39.76	46.00	-6.24	Peak	100	0
2	562.50	35.87	6.82	42.69	46.00	-3.31	QP	100	0
3	601.00	36.45	2.60	39.05	46.00	-6.95	Peak	100	0
4	720.00	36.43	6.41	42.84	46.00	-3.16	QP	100	0
5	797.00	35.94	5.94	41.88	46.00	-4.12	QP	100	0
6	959.40	32.72	9.59	42.31	46.00	-3.69	QP	100	0

Remarks: 1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power	:	From System	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	GFSK (1 Mbps)	Atmospheric Pressure	:	1020 hPa



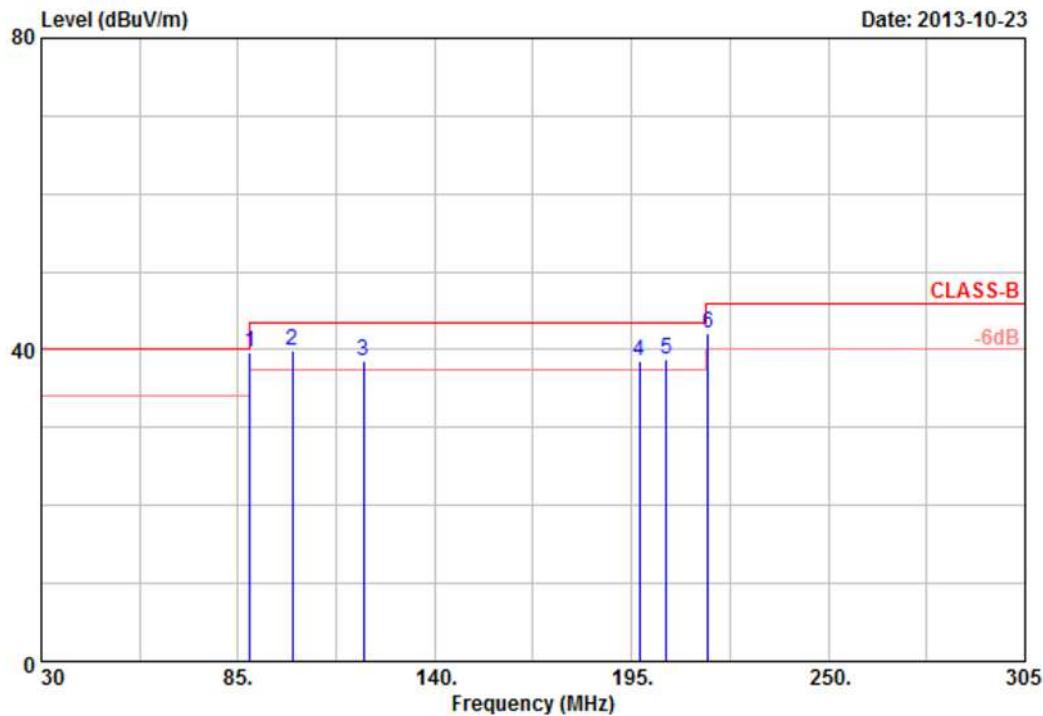
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	501.60	38.52	0.10	38.62	46.00	-7.38	Peak	100	0
2	601.00	40.37	2.12	42.49	46.00	-3.51	QP	100	0
3	685.00	36.89	2.56	39.45	46.00	-6.55	Peak	100	0
4	720.00	37.24	4.17	41.41	46.00	-4.59	QP	100	0
5	800.50	33.59	6.14	39.73	46.00	-6.27	Peak	100	0
6	959.40	34.55	7.97	42.52	46.00	-3.48	QP	100	0

Remarks:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power	:	From System	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	GFSK (1 Mbps)	Atmospheric Pressure	:	1020 hPa

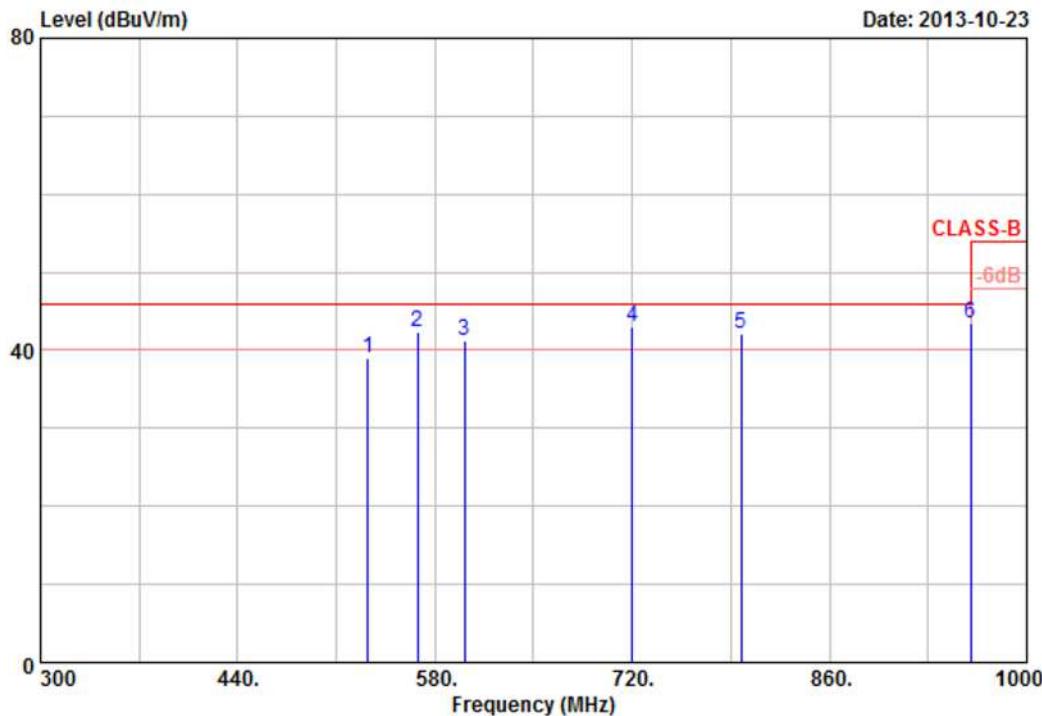


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	88.30	47.97	-8.28	39.69	43.50	-3.81	QP	100	360
2	100.13	48.52	-8.69	39.83	43.50	-3.67	QP	100	360
3	120.20	43.17	-4.66	38.51	43.50	-4.99	QP	100	360
4	197.20	50.20	-11.58	38.62	43.50	-4.88	QP	100	360
5	204.63	50.37	-11.55	38.82	43.50	-4.68	QP	100	360
6	216.45	48.71	-6.59	42.12	46.00	-3.88	QP	100	360

Remarks: 1. Result = Read Value + Factor
 2. Factor = Antenna Factor + Cable Loss - Amplifier
 3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
 4. The data is worst case.



Power	:	From System	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	π/4-DQPSK (2 Mbps)	Atmospheric Pressure	:	1020 hPa

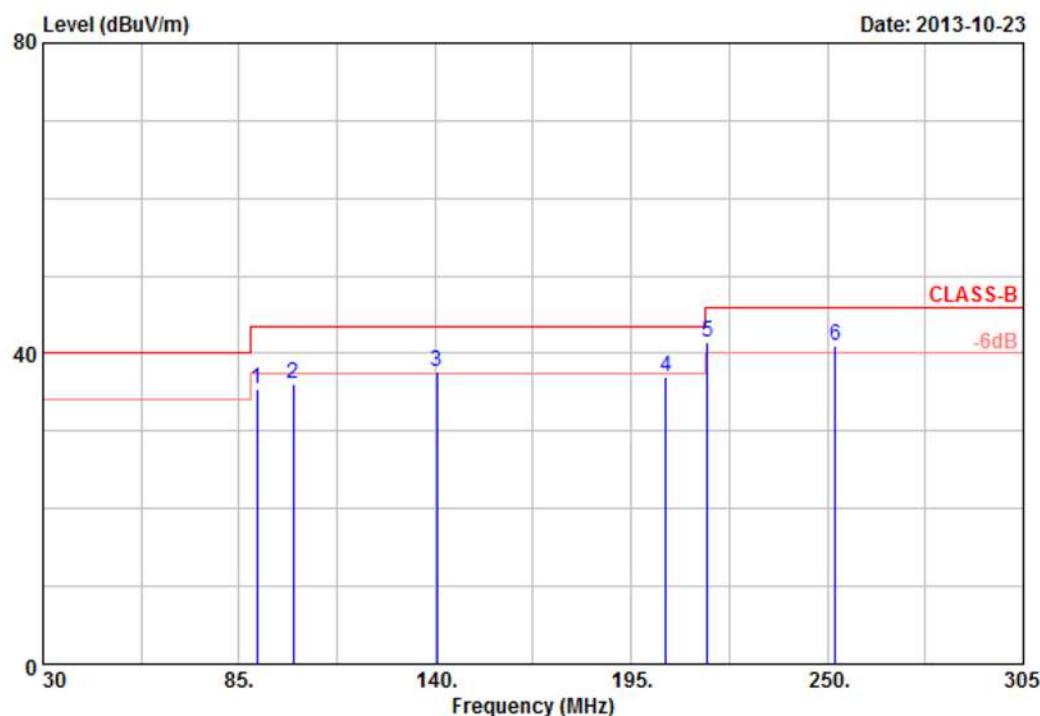


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	532.40	36.85	2.23	39.08	46.00	-6.92	Peak	100	0
2	567.40	35.13	7.11	42.24	46.00	-3.76	QP	100	0
3	601.00	38.72	2.60	41.32	46.00	-4.68	QP	100	0
4	720.00	36.52	6.41	42.93	46.00	-3.07	QP	100	0
5	797.00	36.19	5.94	42.13	46.00	-3.87	QP	100	0
6	960.10	33.89	9.59	43.48	54.00	-10.52	Peak	100	0

Remarks: 1. Result = Read Value + Factor
 2. Factor = Antenna Factor + Cable Loss - Amplifier
 3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
 4. The data is worst case.



Power	:	From System	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	$\pi/4$ -DQPSK (2 Mbps)	Atmospheric Pressure	:	1020 hPa



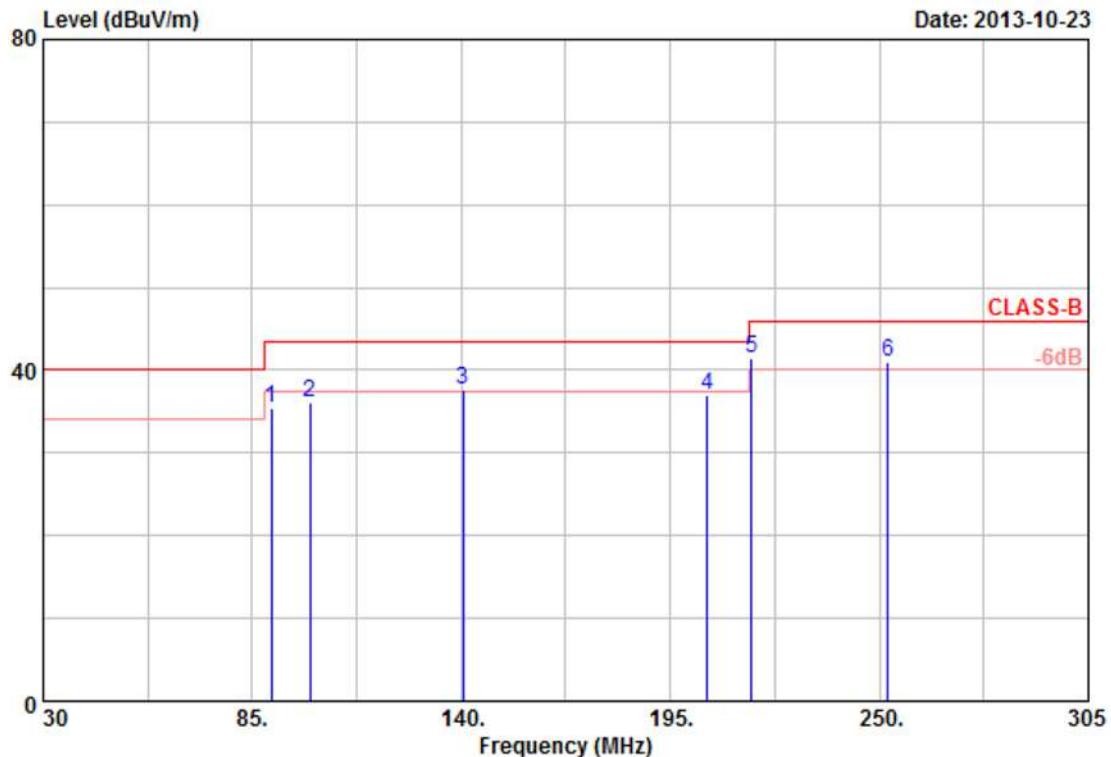
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	89.95	53.90	-18.42	35.48	43.50	-8.02	Peak	100	360
2	100.13	54.86	-18.68	36.18	43.50	-7.32	Peak	100	360
3	140.55	52.34	-14.66	37.68	43.50	-5.82	QP	100	360
4	204.63	55.50	-18.50	37.00	43.50	-6.50	Peak	100	360
5	216.45	57.63	-16.19	41.44	46.00	-4.56	QP	100	360
6	252.20	54.49	-13.52	40.97	46.00	-5.03	QP	100	360

Remarks:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power	:	From System	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	$\pi/4$ -DQPSK (2 Mbps)	Atmospheric Pressure	:	1020 hPa



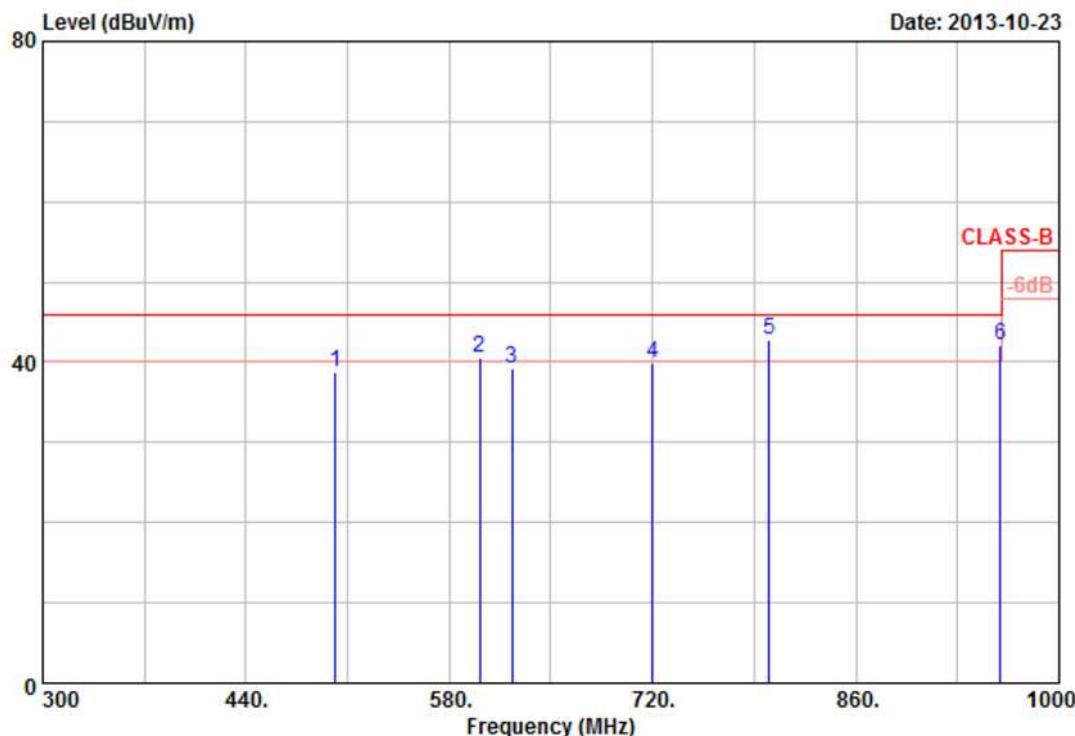
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	89.95	53.90	-18.42	35.48	43.50	-8.02	Peak	100	360
2	100.13	54.86	-18.68	36.18	43.50	-7.32	Peak	100	360
3	140.55	52.34	-14.66	37.68	43.50	-5.82	QP	100	360
4	204.63	55.50	-18.50	37.00	43.50	-6.50	Peak	100	360
5	216.45	57.63	-16.19	41.44	46.00	-4.56	QP	100	360
6	252.20	54.49	-13.52	40.97	46.00	-5.03	QP	100	360

Remarks:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power	:	From System	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	$\pi/4$ -DQPSK (2 Mbps)	Atmospheric Pressure	:	1020 hPa



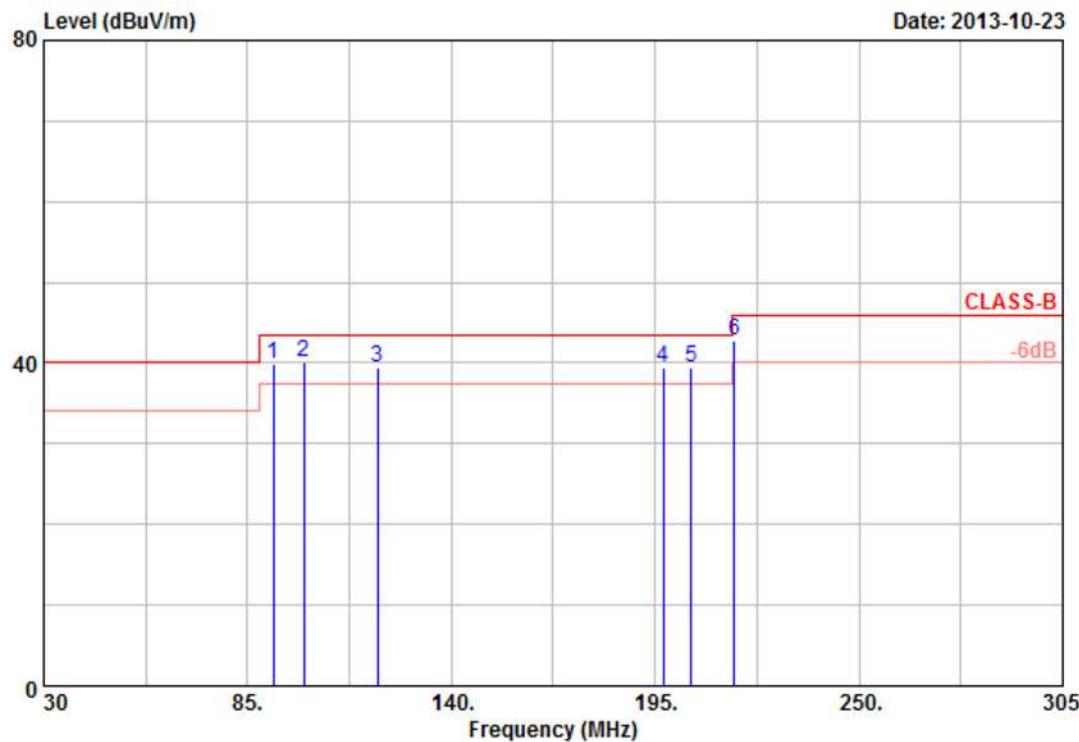
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	501.60	38.63	0.10	38.73	46.00	-7.27	Peak	100	0
2	601.00	38.45	2.12	40.57	46.00	-5.43	QP	100	0
3	623.40	35.00	4.21	39.21	46.00	-6.79	Peak	100	0
4	720.00	35.64	4.17	39.81	46.00	-6.19	Peak	100	0
5	800.50	36.56	6.14	42.70	46.00	-3.30	QP	100	0
6	959.40	34.18	7.97	42.15	46.00	-3.85	QP	100	0

Remarks:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power	:	From System	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	8DPSK (3 Mbps)	Atmospheric Pressure	:	1020 hPa



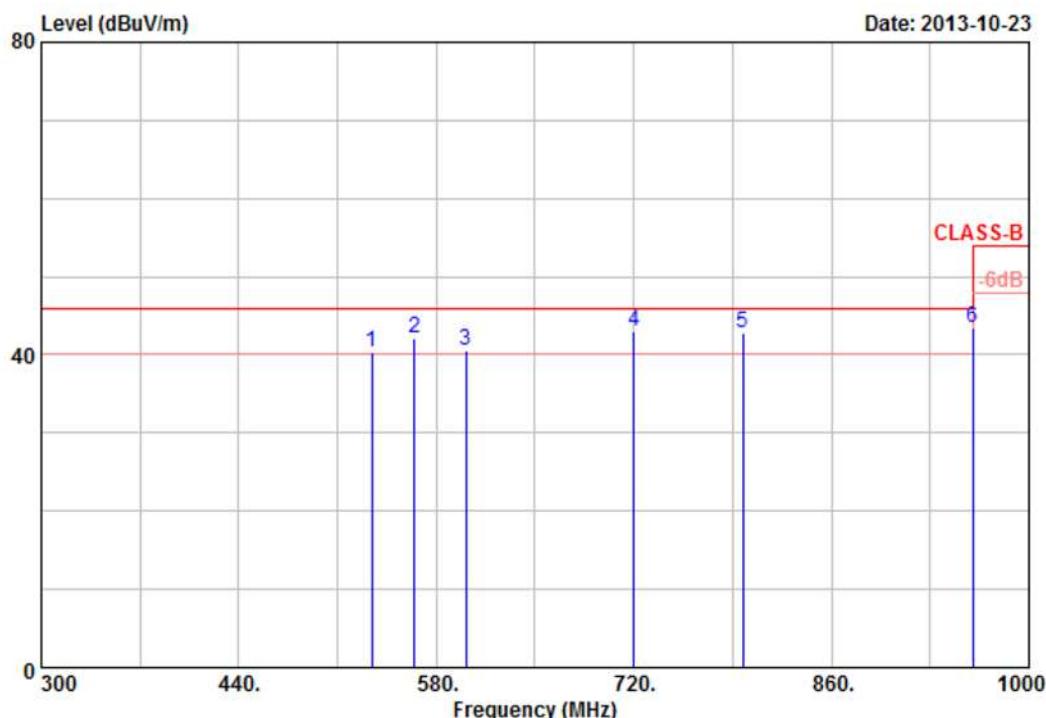
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	91.88	48.89	-8.93	39.96	43.50	-3.54	QP	100	360
2	100.13	48.85	-8.69	40.16	43.50	-3.34	QP	100	360
3	120.20	44.08	-4.66	39.42	43.50	-4.08	QP	100	360
4	197.20	51.00	-11.58	39.42	43.50	-4.08	QP	100	360
5	204.63	50.93	-11.55	39.38	43.50	-4.12	QP	100	360
6	216.45	49.30	-6.59	42.71	46.00	-3.29	QP	100	360

Remarks:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power	:	From System	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	8DPSK (3 Mbps)	Atmospheric Pressure	:	1020 hPa

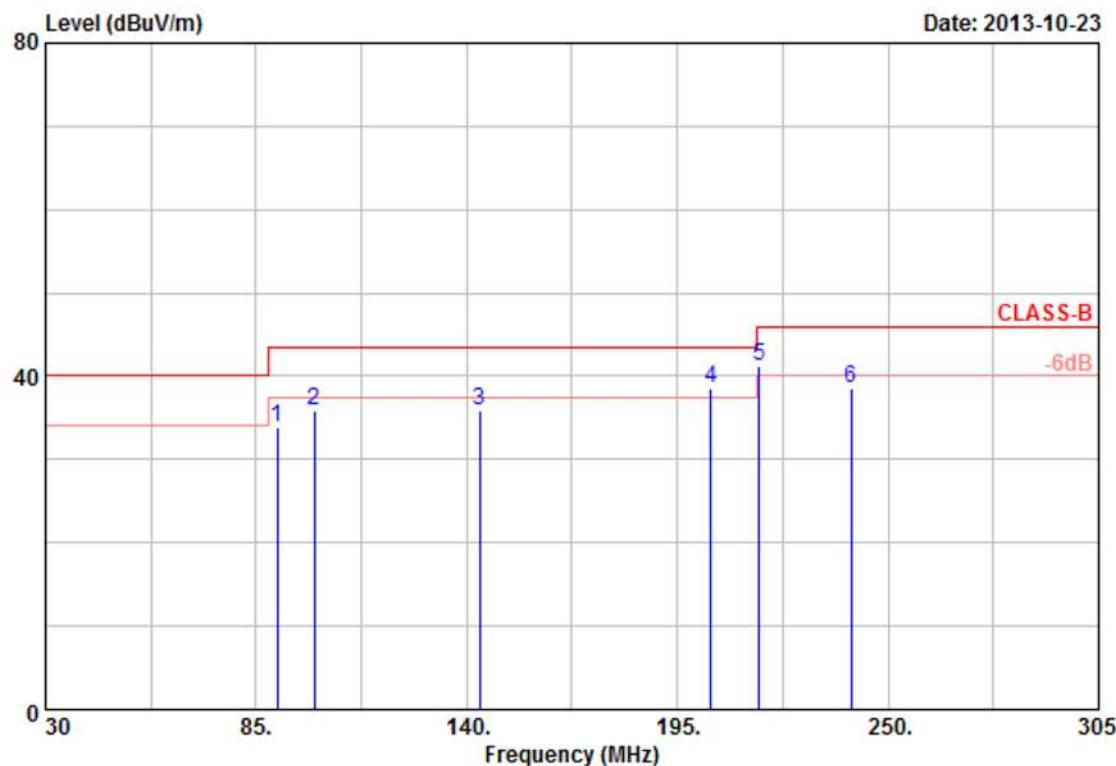


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	534.50	37.05	3.30	40.35	46.00	-5.65	QP	100	0
2	564.60	35.63	6.59	42.22	46.00	-3.78	QP	100	0
3	601.00	38.05	2.60	40.65	46.00	-5.35	QP	100	0
4	720.00	36.50	6.41	42.91	46.00	-3.09	QP	100	0
5	797.00	36.93	5.94	42.87	46.00	-3.13	QP	100	0
6	960.10	33.84	9.59	43.43	54.00	-10.57	Peak	100	0

Remarks: 1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power	:	From System	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	8DPSK (3 Mbps)	Atmospheric Pressure	:	1020 hPa



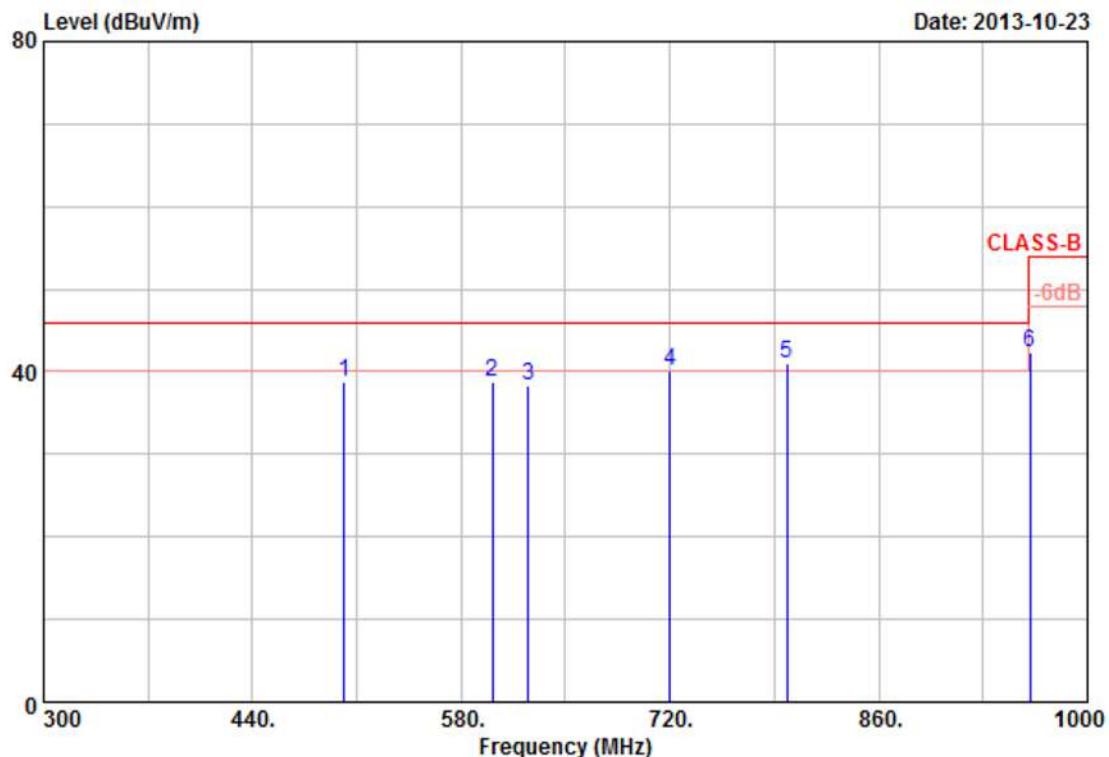
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	90.50	52.33	-18.43	33.90	43.50	-9.60	Peak	100	360
2	100.13	54.47	-18.68	35.79	43.50	-7.71	Peak	100	360
3	143.30	50.53	-14.65	35.88	43.50	-7.62	Peak	100	360
4	203.80	57.16	-18.54	38.62	43.50	-4.88	QP	100	360
5	216.45	57.41	-16.19	41.22	46.00	-4.78	QP	100	360
6	240.38	52.60	-13.99	38.61	46.00	-7.39	Peak	100	360

Remarks:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
4. The data is worst case.



Power	:	From System	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	8DPSK (3 Mbps)	Atmospheric Pressure	:	1020 hPa



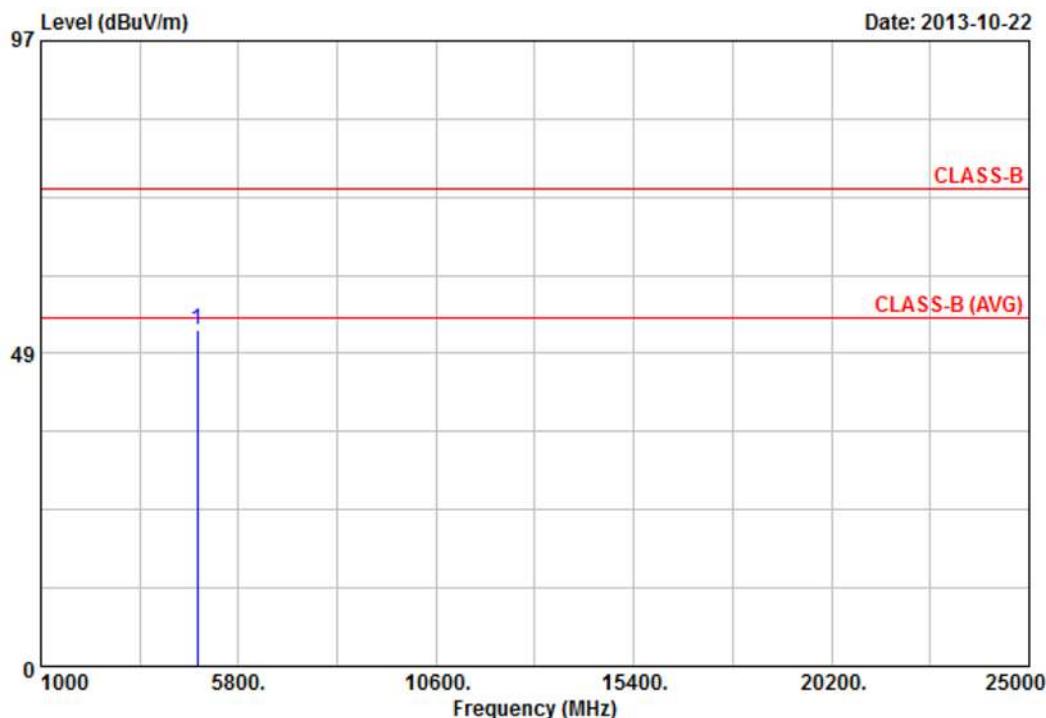
Item	Read			Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value	Factor					Pos	Pos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	Deg		
1	501.60	38.61	0.10	38.71	46.00	-7.29	Peak	100	0
2	601.00	36.74	2.12	38.86	46.00	-7.14	Peak	100	0
3	624.80	34.01	4.29	38.30	46.00	-7.70	Peak	100	0
4	720.00	35.85	4.17	40.02	46.00	-5.98	QP	100	0
5	798.40	34.98	6.07	41.05	46.00	-4.95	QP	100	0
6	961.50	34.45	7.99	42.44	54.00	-11.56	Peak	100	0

Remarks: 1. Result = Read Value + Factor
 2. Factor = Antenna Factor + Cable Loss - Amplifier
 3. According to technical experiences, all spurious emission of BT mode at channel 0,39,78 are almost the same below 1GHz, so that the channel 0 was chosen as representative in final test.
 4. The data is worst case.



5.7 Test Result and Data (1GHz ~ 25GHz)

Power	:	From System	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	GFSK (1Mbps)	Atmospheric Pressure	:	1020 hPa



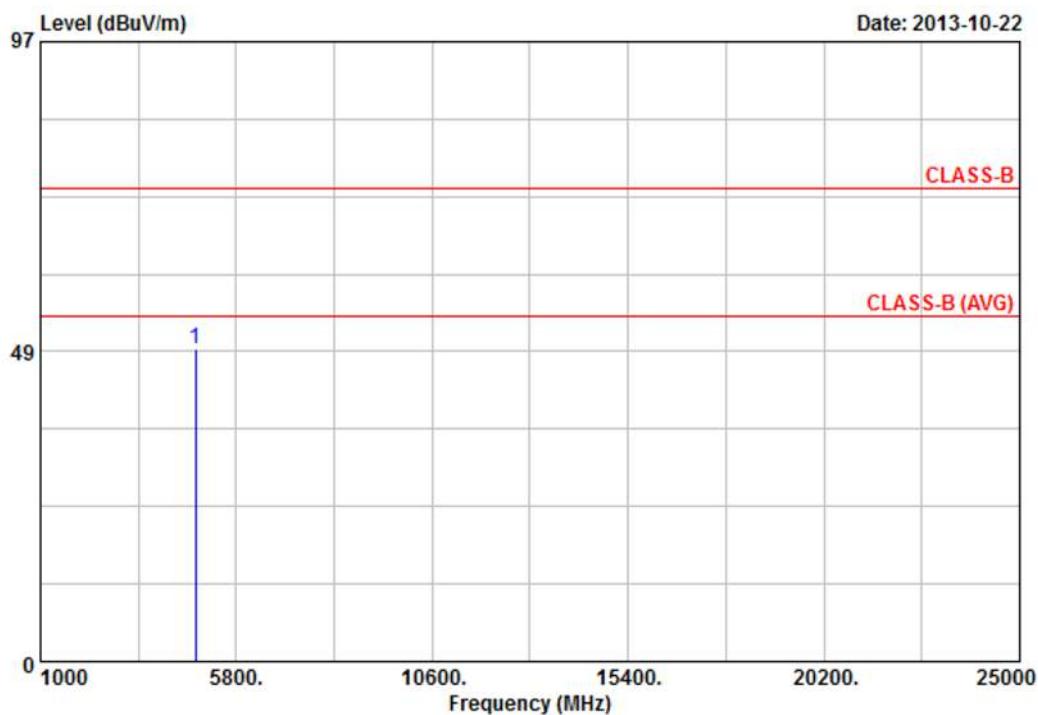
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4804.15	46.69	5.44	52.13	74.00	-21.87	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: From System	Pol/Phase	: HORIZONTAL
Test Mode	: Transmit	Temperature	: 25 °C
Operation Channel	: 0	Humidity	: 50 %
Modulation Type	: GFSK (1Mbps)	Atmospheric Pressure	: 1020 hPa



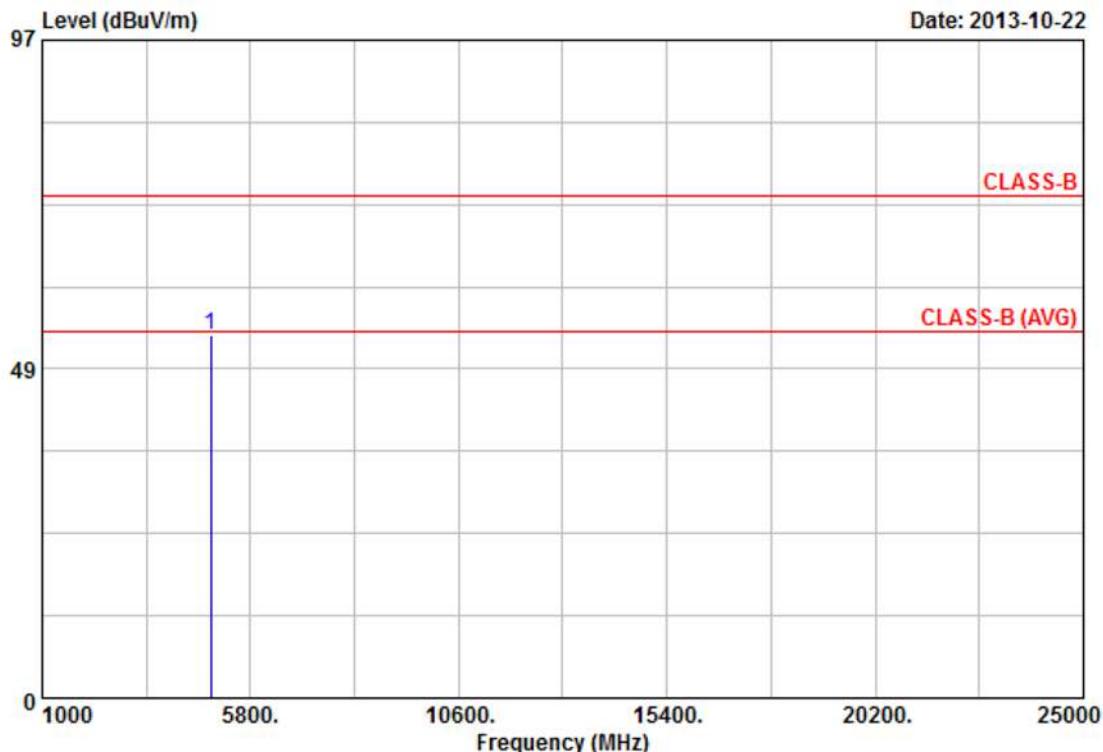
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	Deg
1	4804.13	45.12	3.85	48.97	74.00	-25.03	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: From System	Pol/Phase	: VERTICAL
Test Mode	: Transmit	Temperature	: 25 °C
Operation Channel	: 39	Humidity	: 50 %
Modulation Type	: GFSK (1Mbps)	Atmospheric Pressure	: 1020 hPa



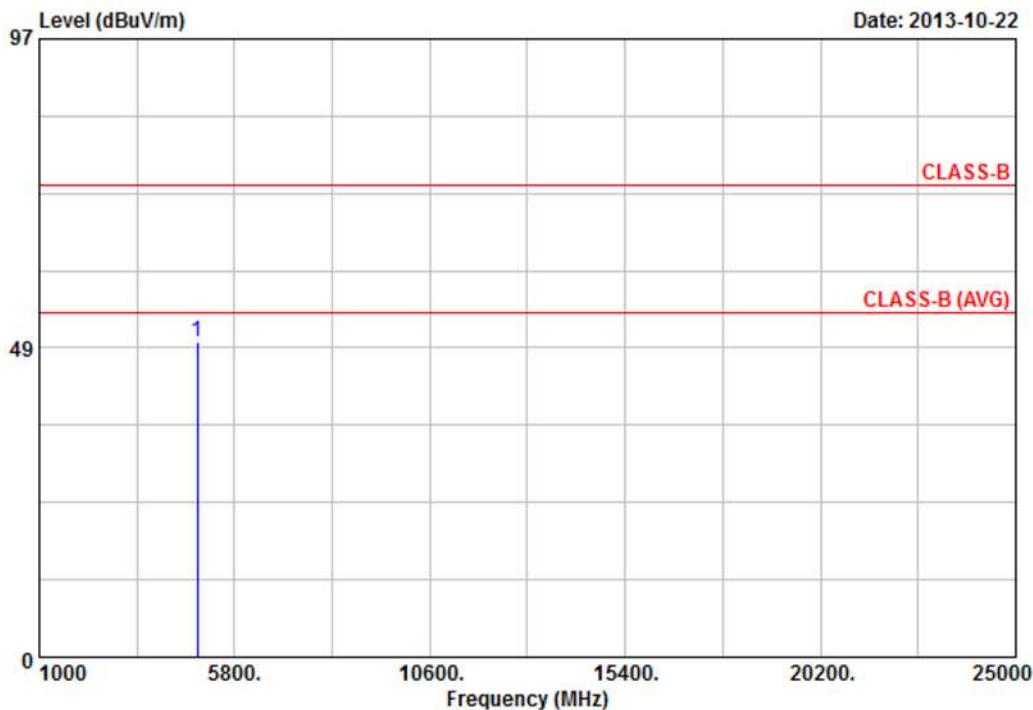
Item	Read			Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value	Factor					Pos	Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4882.10	46.61	6.98	53.59	74.00	-20.41	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: From System	Pol/Phase	: HORIZONTAL
Test Mode	: Transmit	Temperature	: 25 °C
Operation Channel	: 39	Humidity	: 50 %
Modulation Type	: GFSK (1Mbps)	Atmospheric Pressure	: 1020 hPa



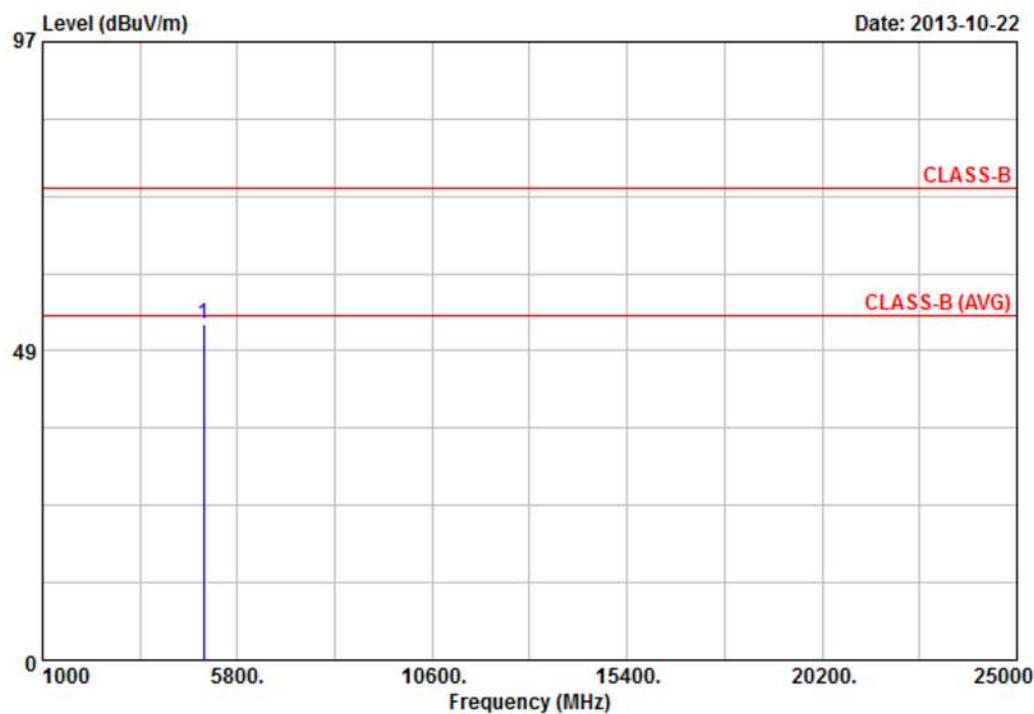
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4882.03	44.36	5.09	49.45	74.00	-24.55	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: From System	Pol/Phase	: VERTICAL
Test Mode	: Transmit	Temperature	: 25 °C
Operation Channel	: 78	Humidity	: 50 %
Modulation Type	: GFSK (1Mbps)	Atmospheric Pressure	: 1020 hPa



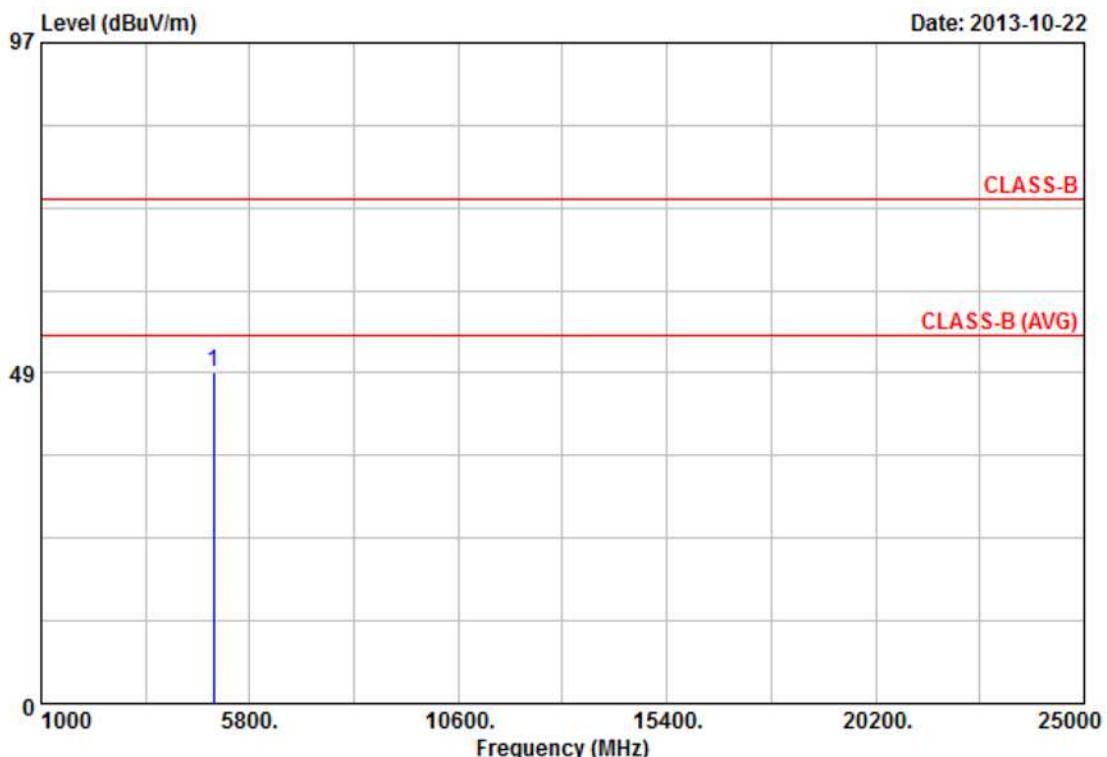
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
1	4960.10	45.13	7.51	52.64	74.00	-21.36	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	:	From System	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	78	Humidity	:	50 %
Modulation Type	:	GFSK (1Mbps)	Atmospheric Pressure	:	1020 hPa



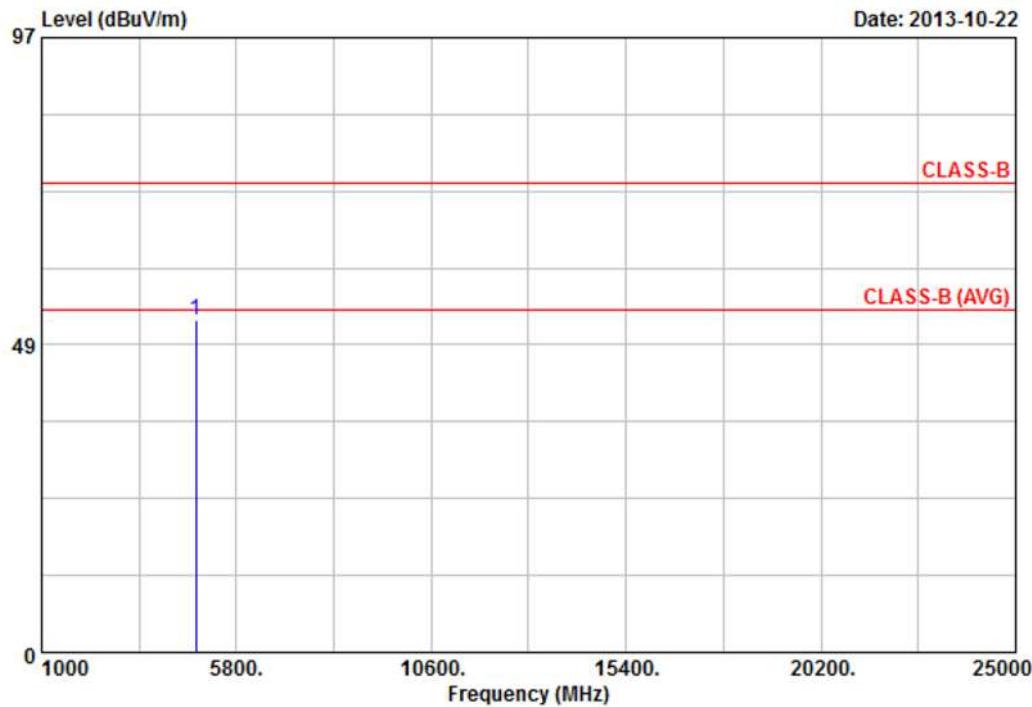
Item	Read			Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value	Factor					Pos	Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4960.03	43.09	5.41	48.50	74.00	-25.50	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	:	From System	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	$\pi/4$ -DQPSK (2 Mbps)	Atmospheric Pressure	:	1020 hPa



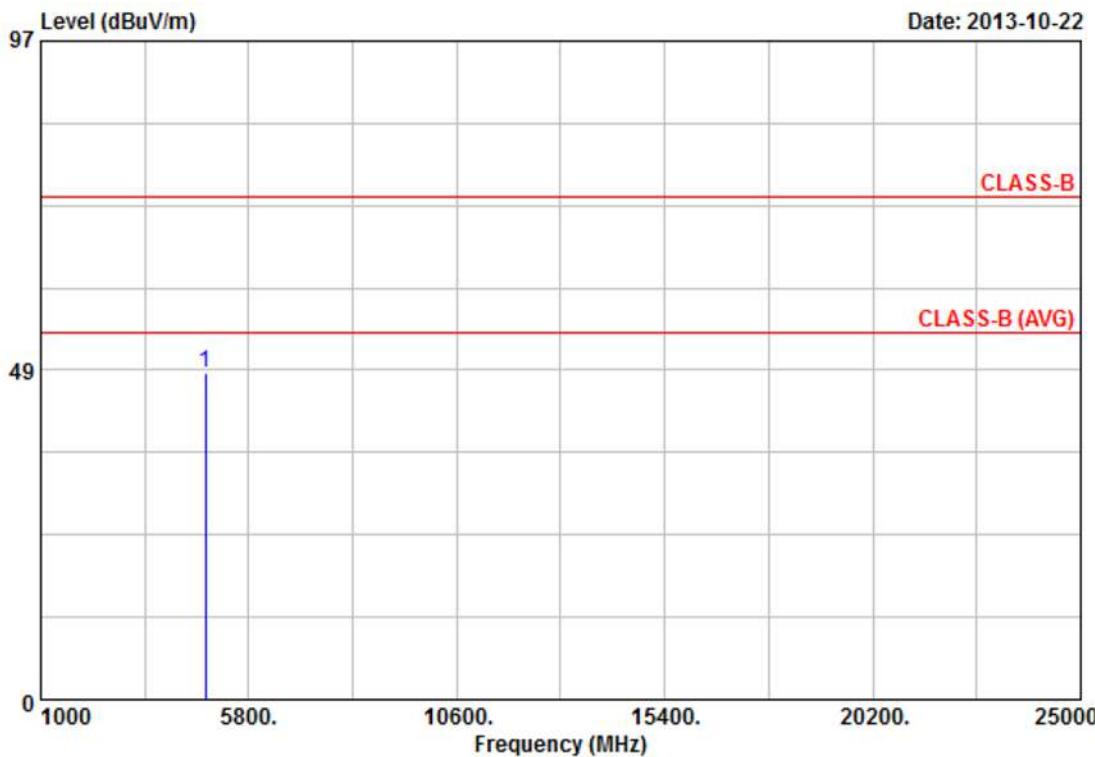
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	Deg
1	4803.95	46.87	5.43	52.30	74.00	-21.70	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	:	From System	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	$\pi/4$ -DQPSK (2 Mbps)	Atmospheric Pressure	:	1020 hPa



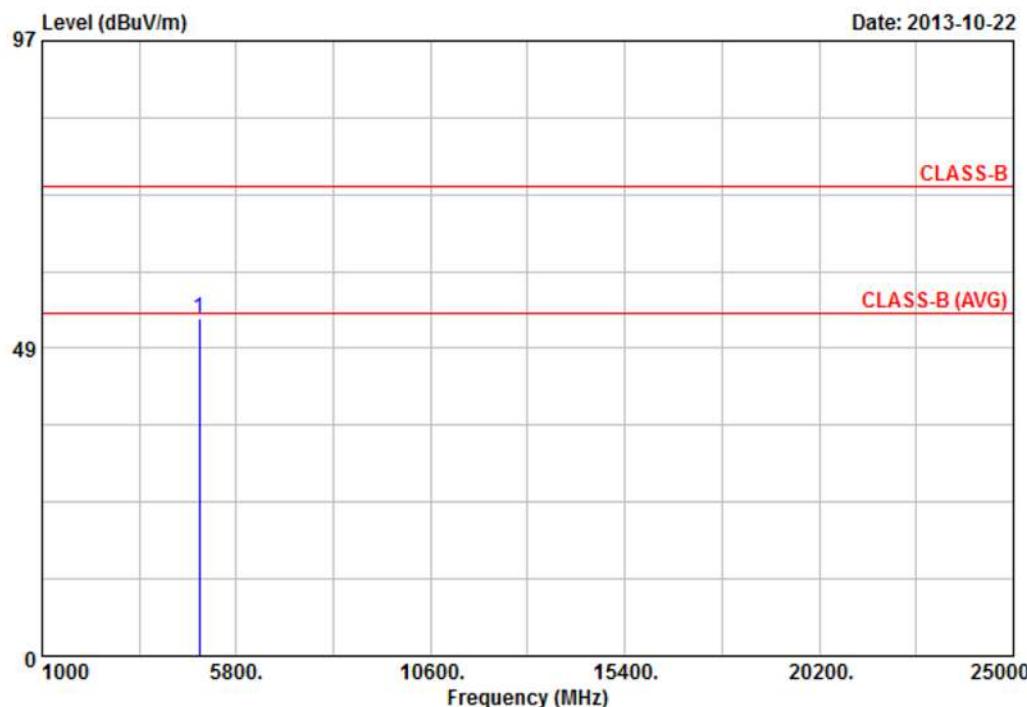
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4803.75	44.36	3.85	48.21	74.00	-25.79	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	:	From System	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	39	Humidity	:	50 %
Modulation Type	:	$\pi/4$ -DQPSK (2 Mbps)	Atmospheric Pressure	:	1020 hPa



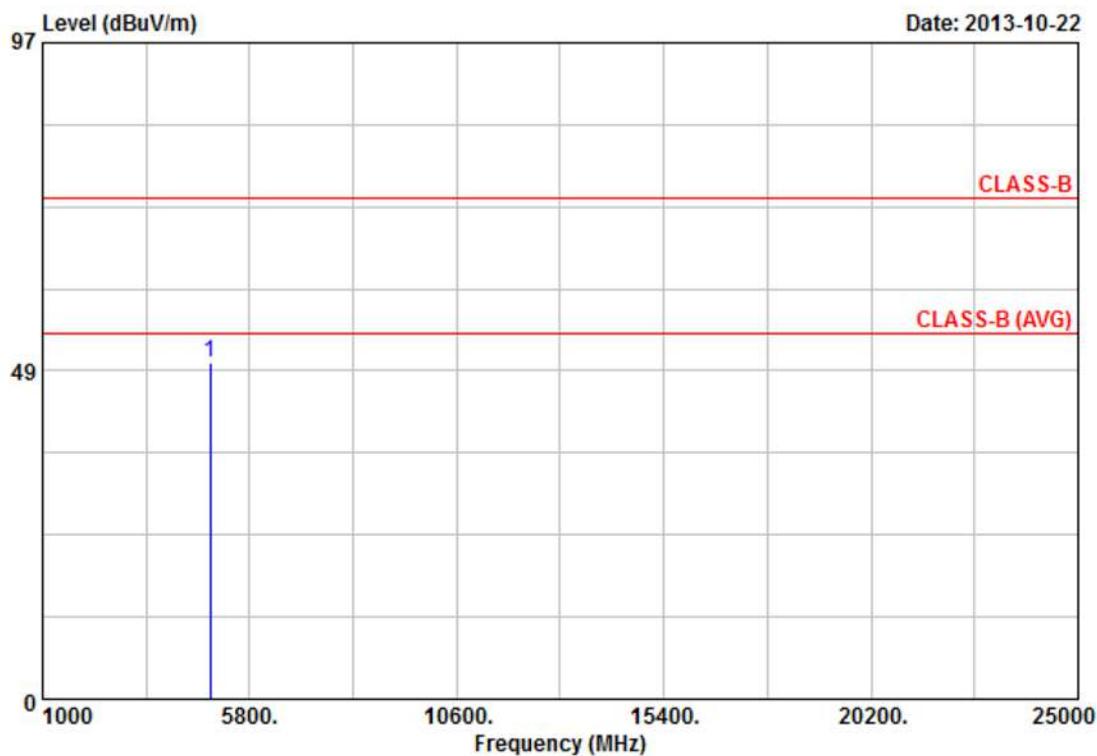
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
1	4882.10	46.33	6.98	53.31	74.00	-20.69	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	:	From System	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	39	Humidity	:	50 %
Modulation Type	:	π/4-DQPSK (2 Mbps)	Atmospheric Pressure	:	1020 hPa



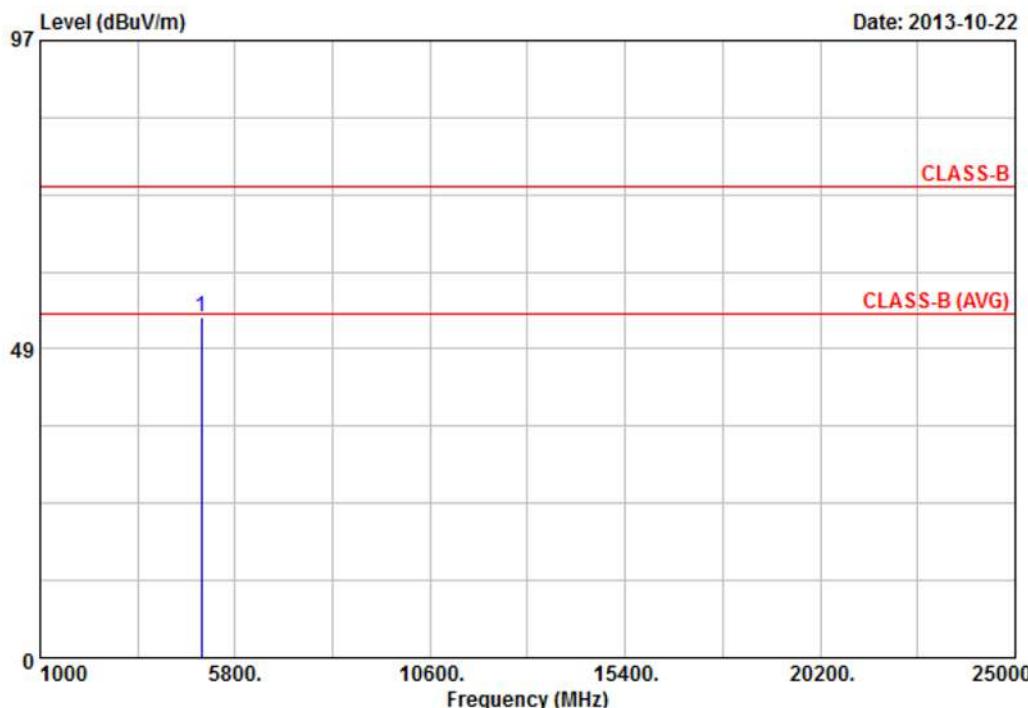
Item	Freq	Read			Margin	Remark	Ant	Tab
		Value	Factor	Result				
1	4882.23	44.61	5.09	49.70	74.00	-24.30	Peak	100 0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: From System	Pol/Phase	: VERTICAL
Test Mode	: Transmit	Temperature	: 25 °C
Operation Channel	: 78	Humidity	: 50 %
Modulation Type	: π/4-DQPSK (2 Mbps)	Atmospheric Pressure	: 1020 hPa

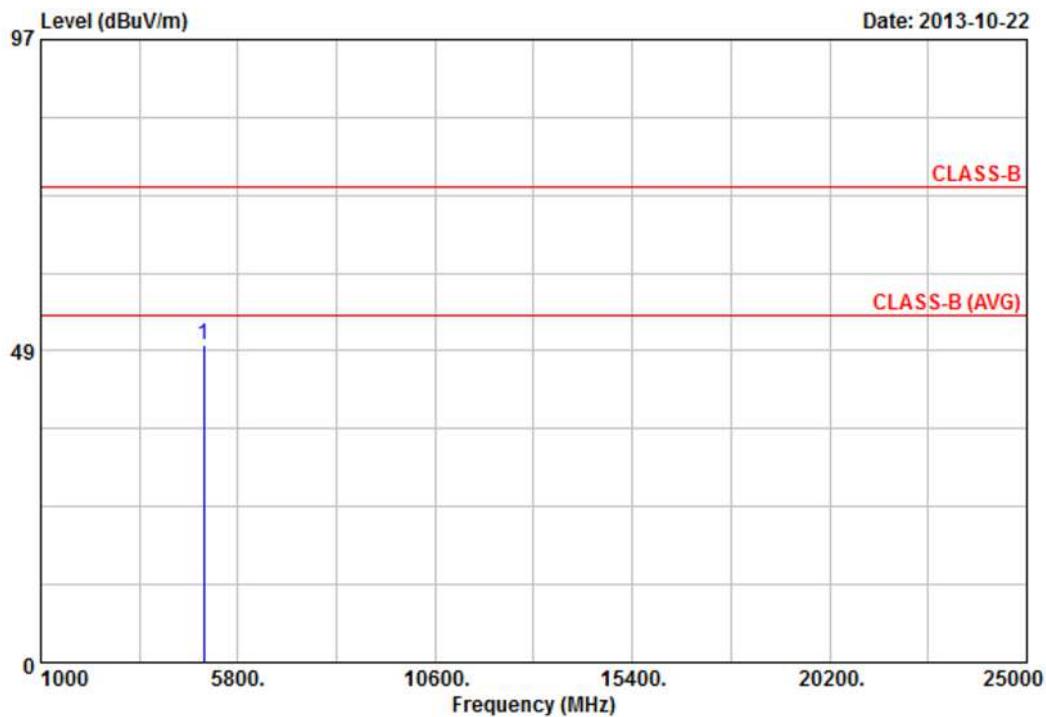


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	:	From System	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	78	Humidity	:	50 %
Modulation Type	:	$\pi/4$ -DQPSK (2 Mbps)	Atmospheric Pressure	:	1020 hPa



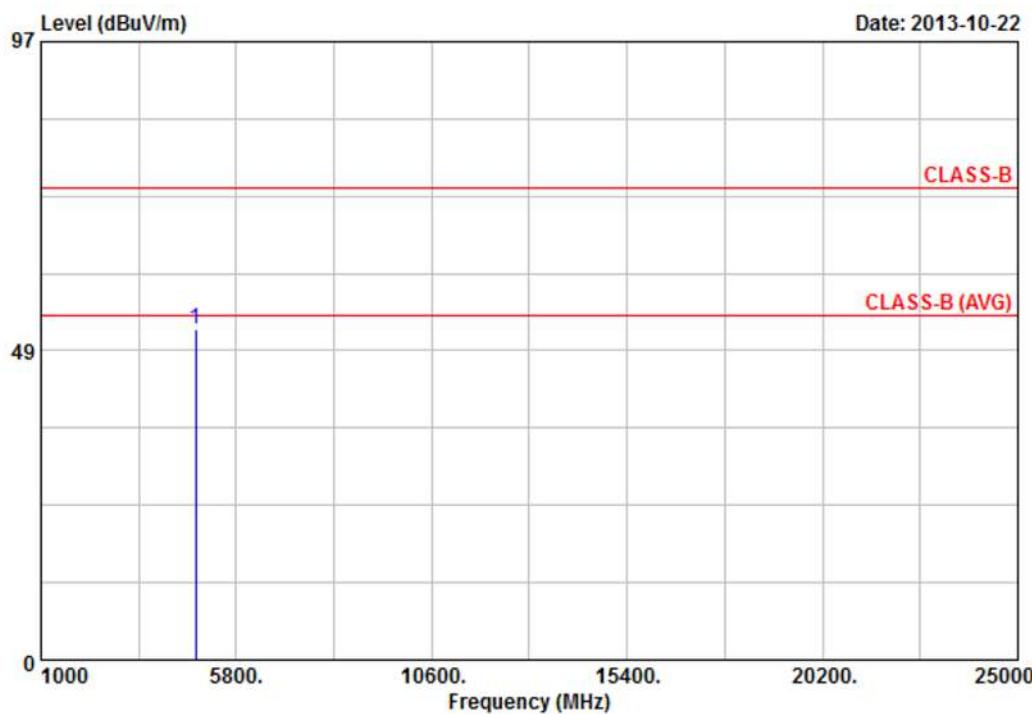
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
1	4960.10	44.04	5.41	49.45	74.00	-24.55	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	:	From System	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	8DPSK (3 Mbps)	Atmospheric Pressure	:	1020 hPa



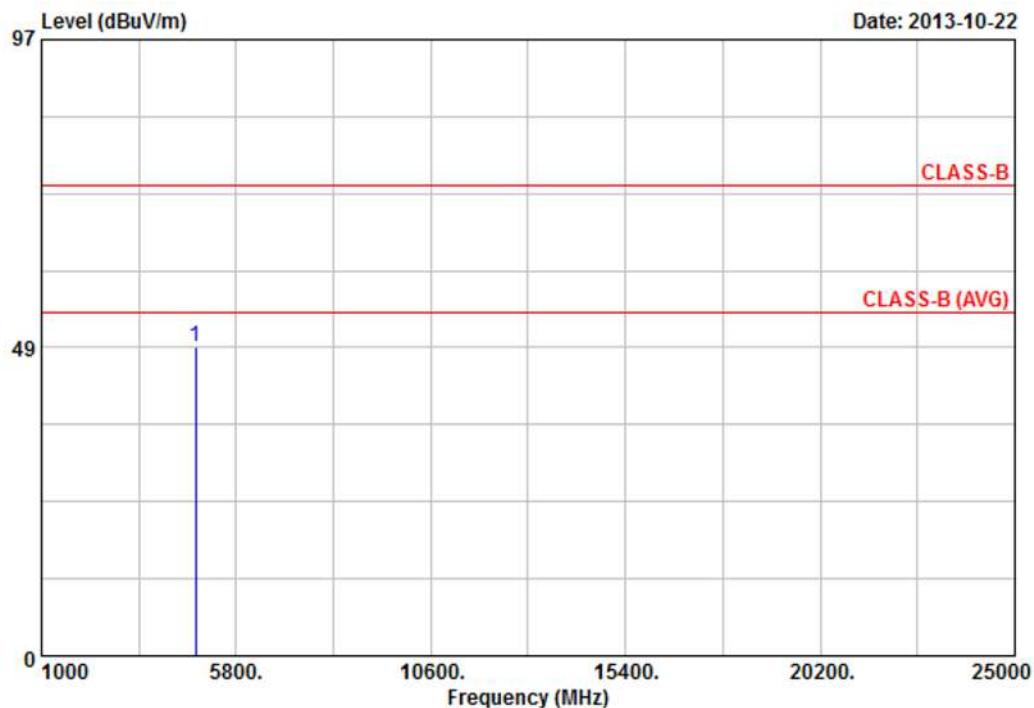
Item	Freq	Read		Result	Limit	Margin	Remark	Ant Pos	Tab Pos
		MHz	dBuV						
1	4803.98	46.42	5.43	51.85	74.00	-22.15	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	:	From System	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	0	Humidity	:	50 %
Modulation Type	:	8DPSK (3 Mbps)	Atmospheric Pressure	:	1020 hPa



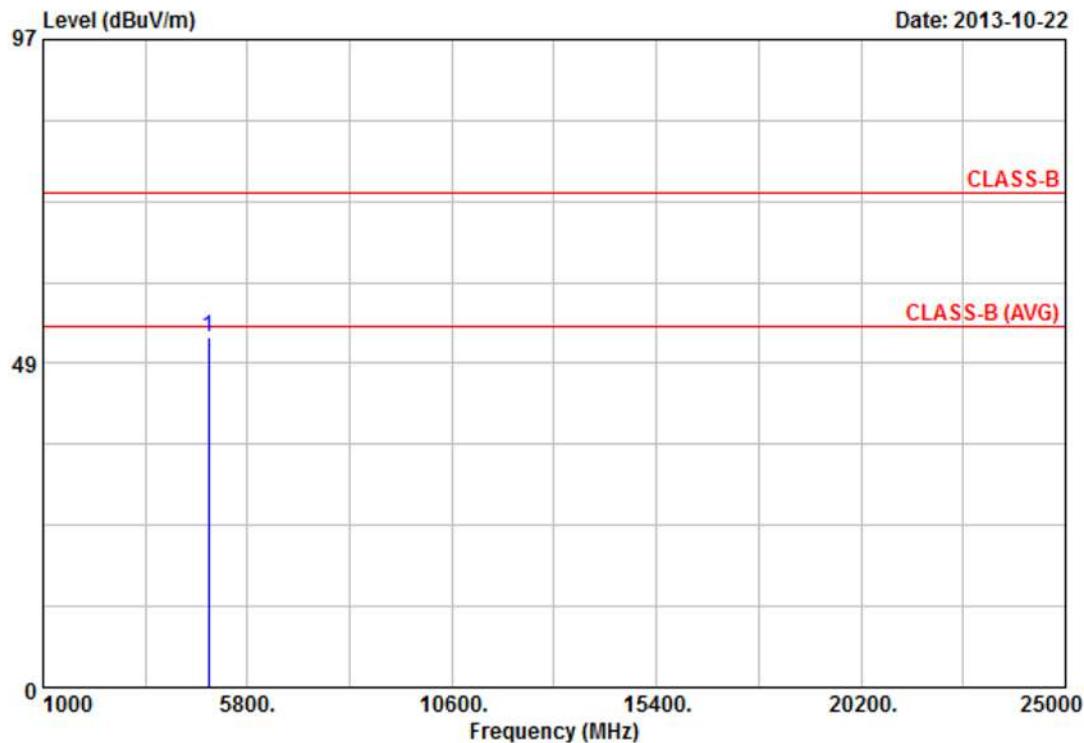
Item	Read			Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value	Factor					Pos	Pos
1	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4803.93	44.85	3.85	48.70	74.00	-25.30	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	:	From System	Pol/Phase	:	VERTICAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	39	Humidity	:	50 %
Modulation Type	:	8DPSK (3 Mbps)	Atmospheric Pressure	:	1020 hPa



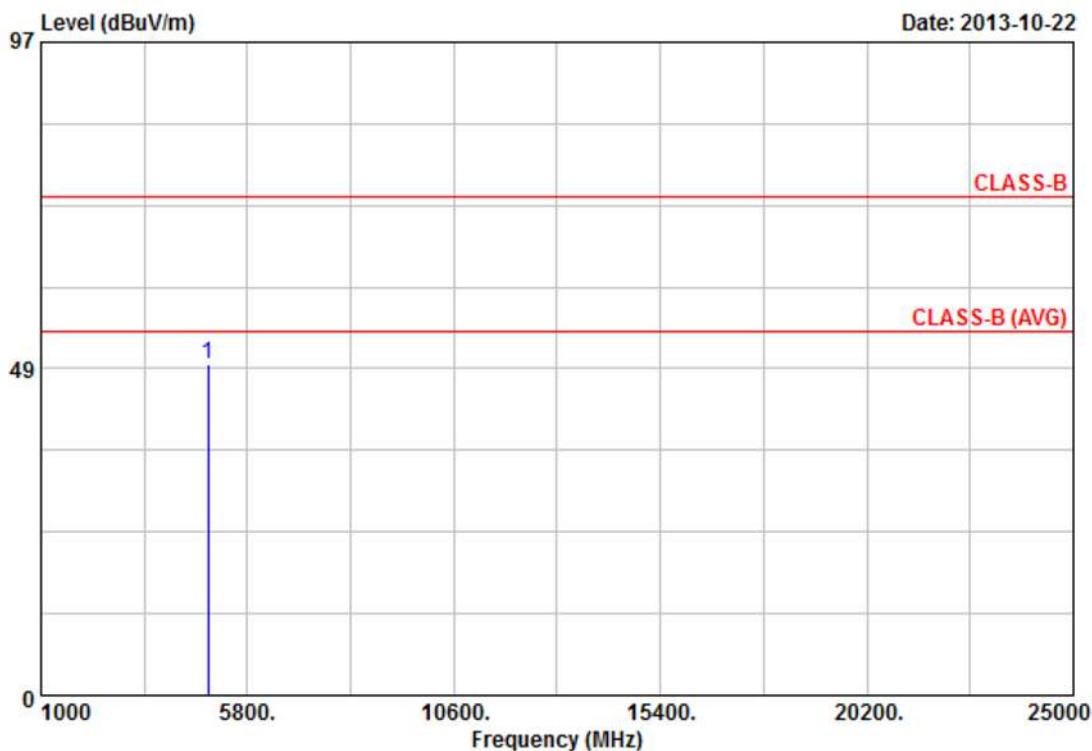
Item	Freq	Read			Margin	Remark	Ant	Tab
		Value	Factor	Result				
1	4881.98	45.44	6.98	52.42	74.00	-21.58	Peak	100 0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	:	From System	Pol/Phase	:	HORIZONTAL
Test Mode	:	Transmit	Temperature	:	25 °C
Operation Channel	:	39	Humidity	:	50 %
Modulation Type	:	8DPSK (3 Mbps)	Atmospheric Pressure	:	1020 hPa



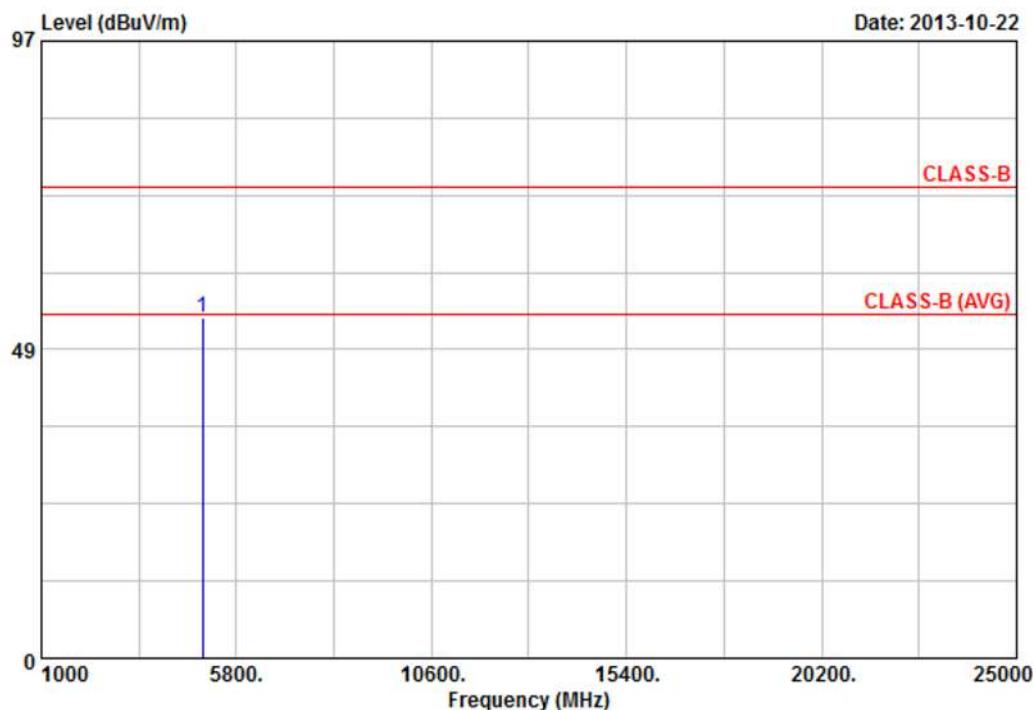
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
1	4881.90	44.04	5.09	49.13	74.00	-24.87	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: From System	Pol/Phase	: VERTICAL
Test Mode	: Transmit	Temperature	: 25 °C
Operation Channel	: 78	Humidity	: 50 %
Modulation Type	: 8DPSK (3 Mbps)	Atmospheric Pressure	: 1020 hPa



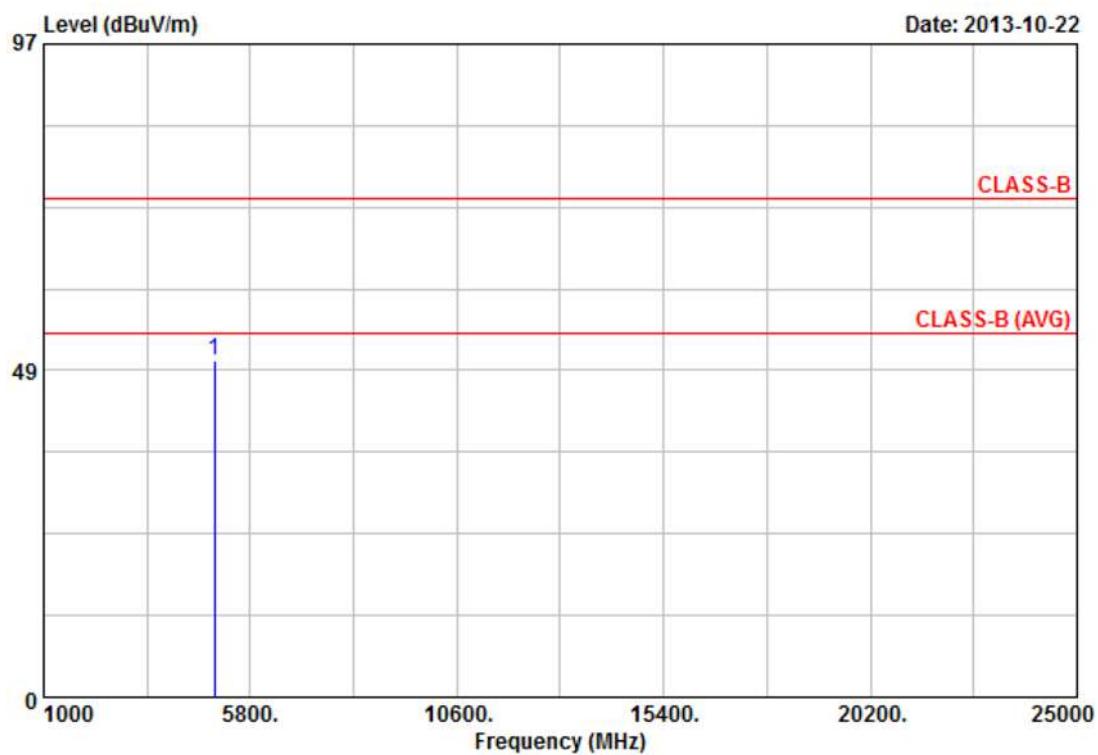
Item	Read			Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value	Factor					Pos	Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4960.10	45.97	7.51	53.48	74.00	-20.52	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: From System	Pol/Phase	: HORIZONTAL
Test Mode	: Transmit	Temperature	: 25 °C
Operation Channel	: 78	Humidity	: 50 %
Modulation Type	: 8DPSK (3 Mbps)	Atmospheric Pressure	: 1020 hPa



Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



6. 20dB Bandwidth Measurement Data

6.1 Test Limit

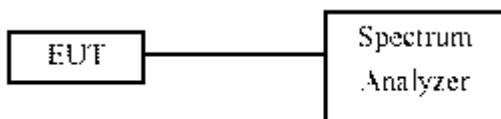
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

6.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 30 KHz and VBW to 100 KHz.
- c. The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

6.3 Test Setup Layout



6.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14



6.5 Test Result and Data

Test Date: Oct. 24, 2013

Temperature: 24 °C

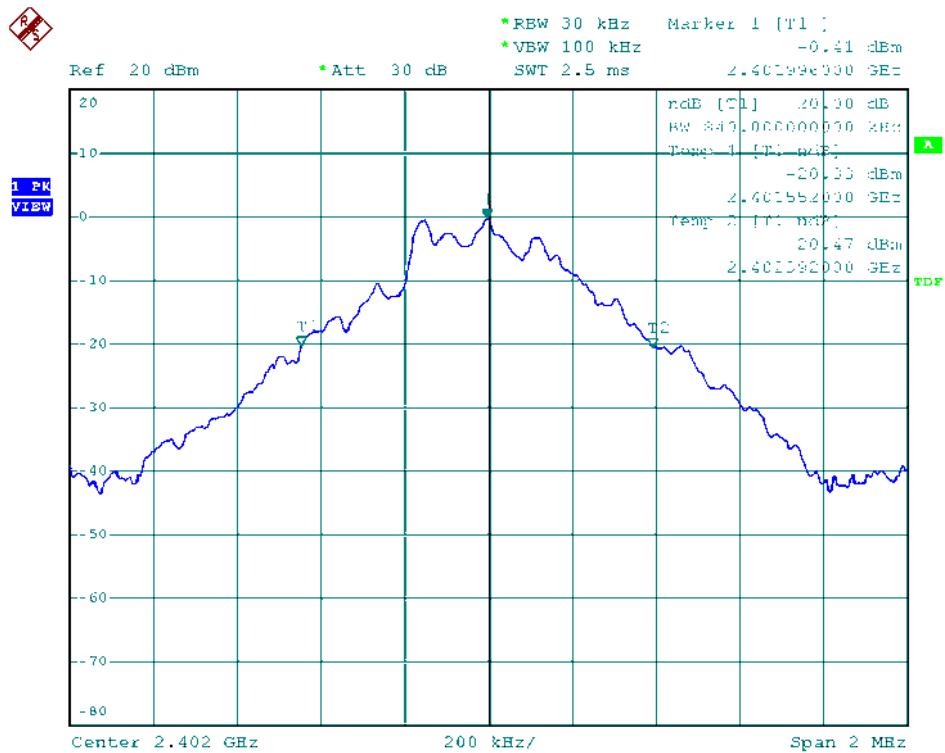
Atmospheric pressure: 1020 hPa

Humidity: 54 %

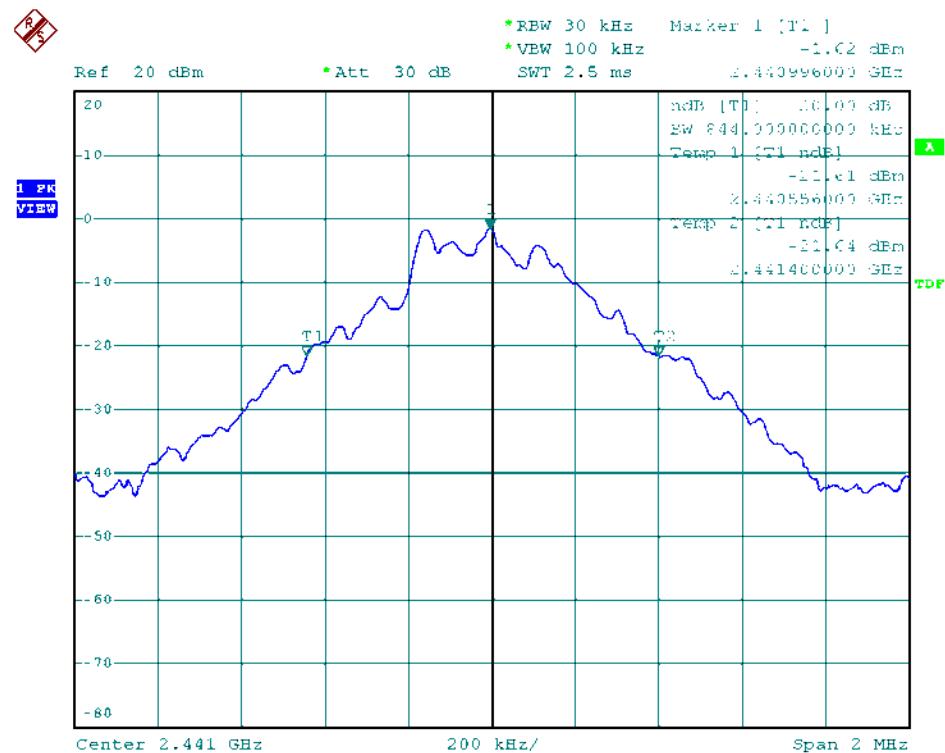
Modulation Type	Channel	Frequency (MHz)	20dB Bandwidth (KHz)	2/3 20dB Bandwidth (KHz)
GFSK (1Mbps)	00	2402	840.00	560.00
	39	2441	844.00	562.67
	78	2480	852.00	568.00
$\pi/4$ -DQPSK (2 Mbps)	00	2402	1224.00	816.00
	39	2441	1244.00	829.33
	78	2480	1236.00	824.00
8DPSK (3Mbps)	00	2402	1216.00	810.67
	39	2441	1216.00	810.67
	78	2480	1216.00	810.67



Modulation Standard: GFSK (1Mbps)
Channel: 00

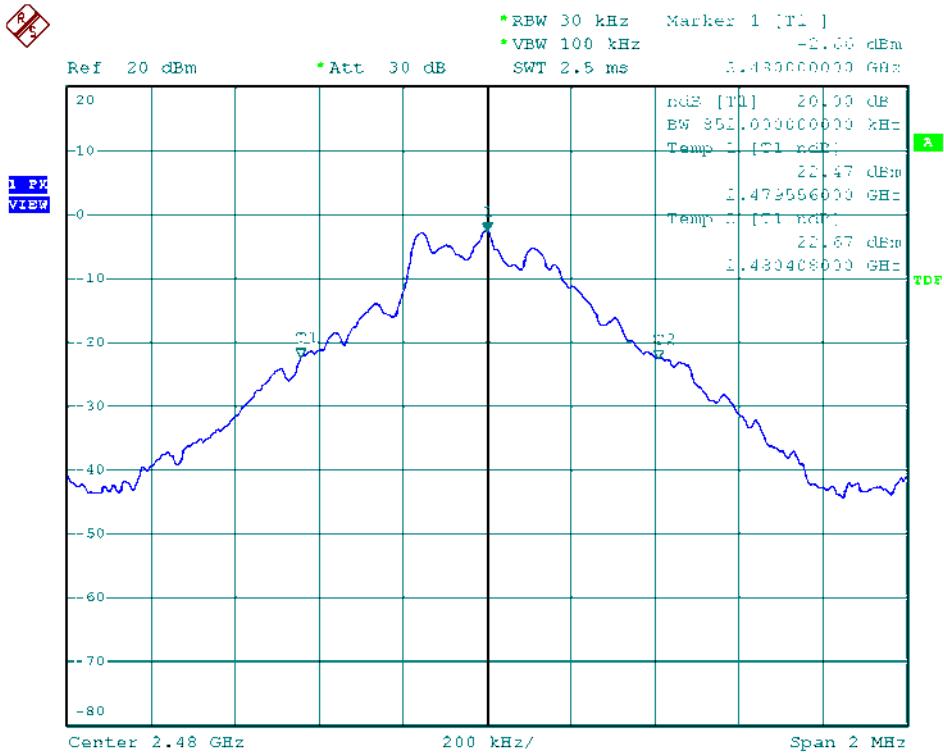


Modulation Standard: GFSK (1Mbps)
Channel: 39

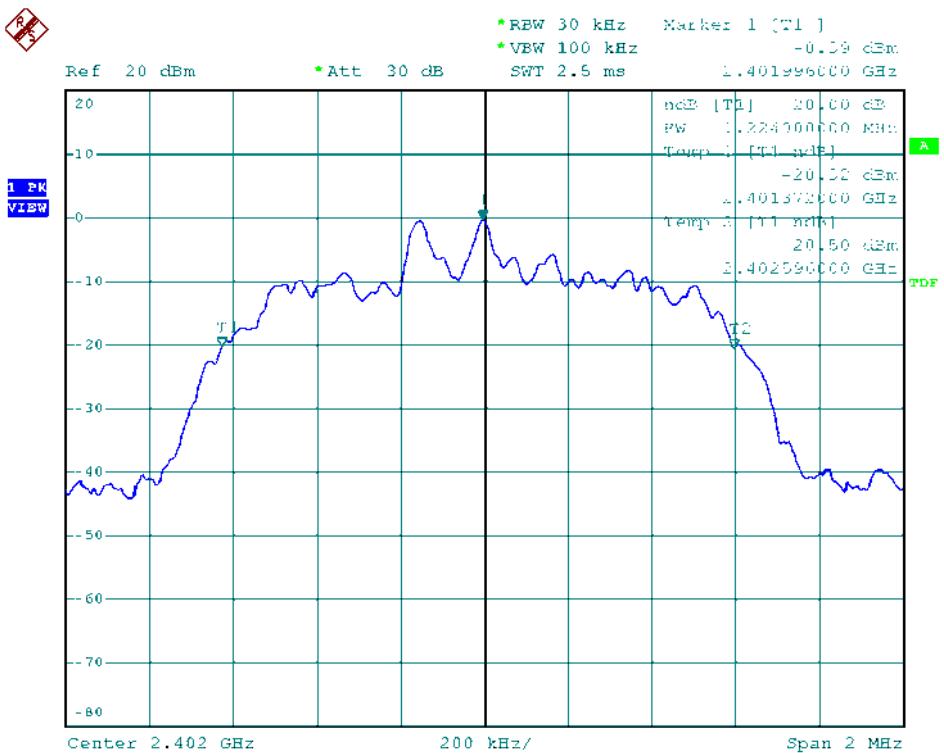




Modulation Standard: GFSK (1Mbps)
Channel: 78

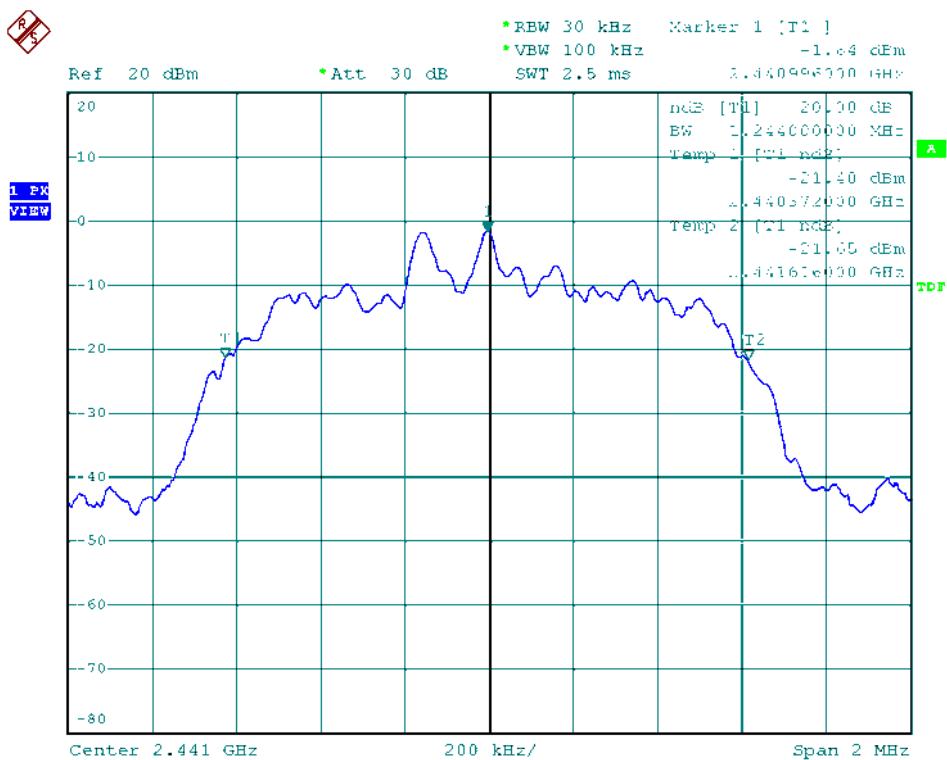


Modulation Standard: $\pi/4$ -DQPSK (2Mbps)
Channel: 00

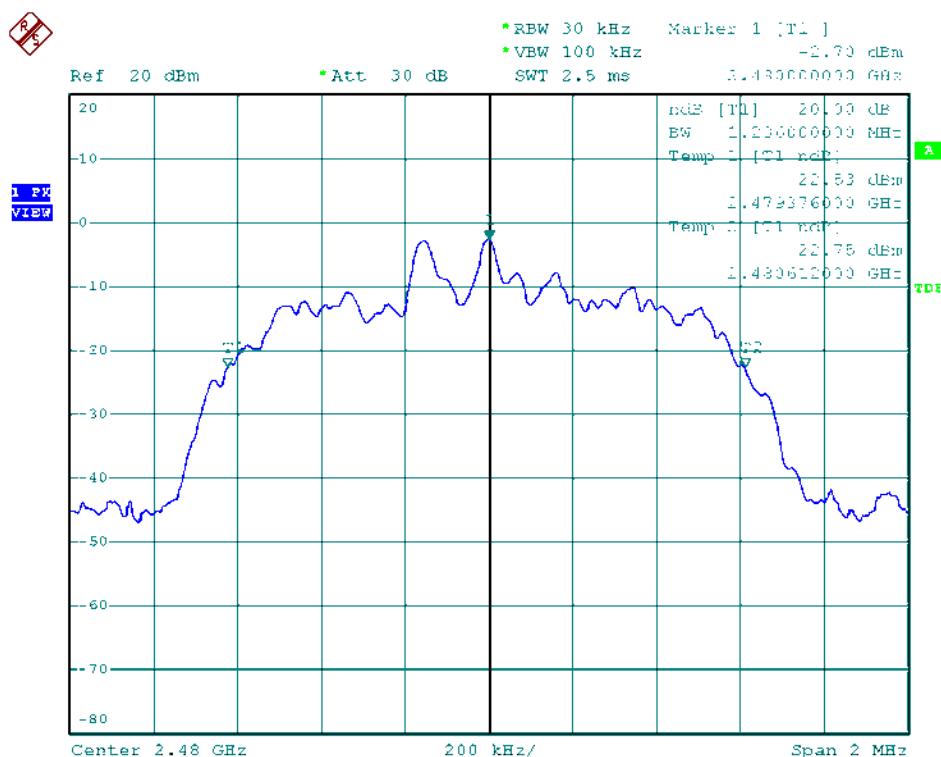




Modulation Standard: $\pi/4$ -DQPSK (2Mbps)
Channel: 39



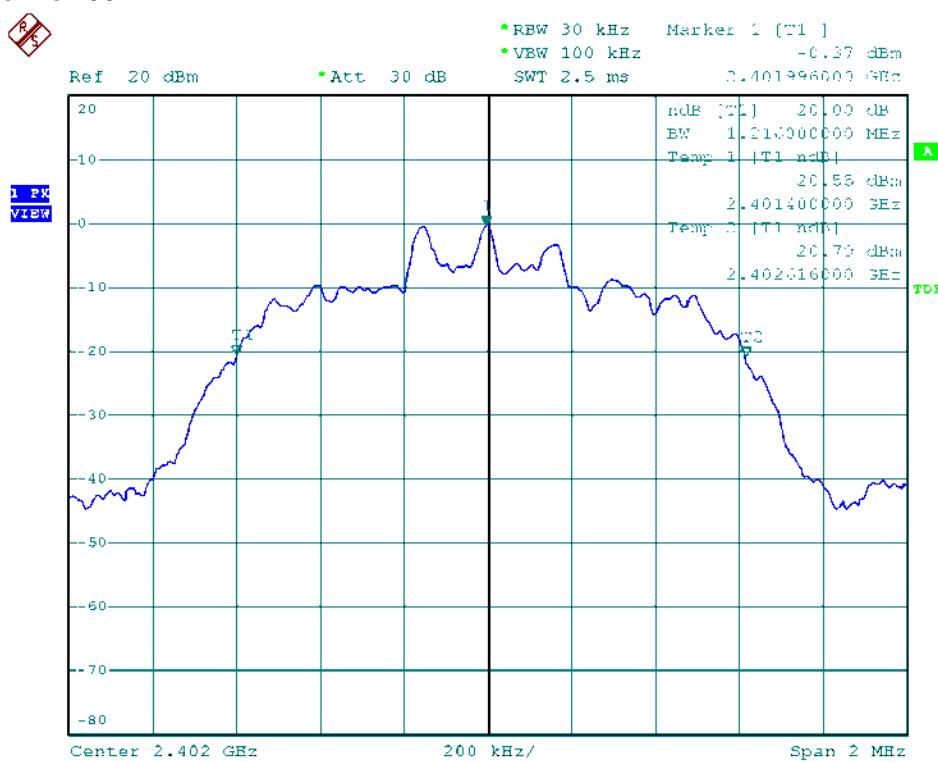
Modulation Standard: $\pi/4$ -DQPSK (2Mbps)
Channel: 78





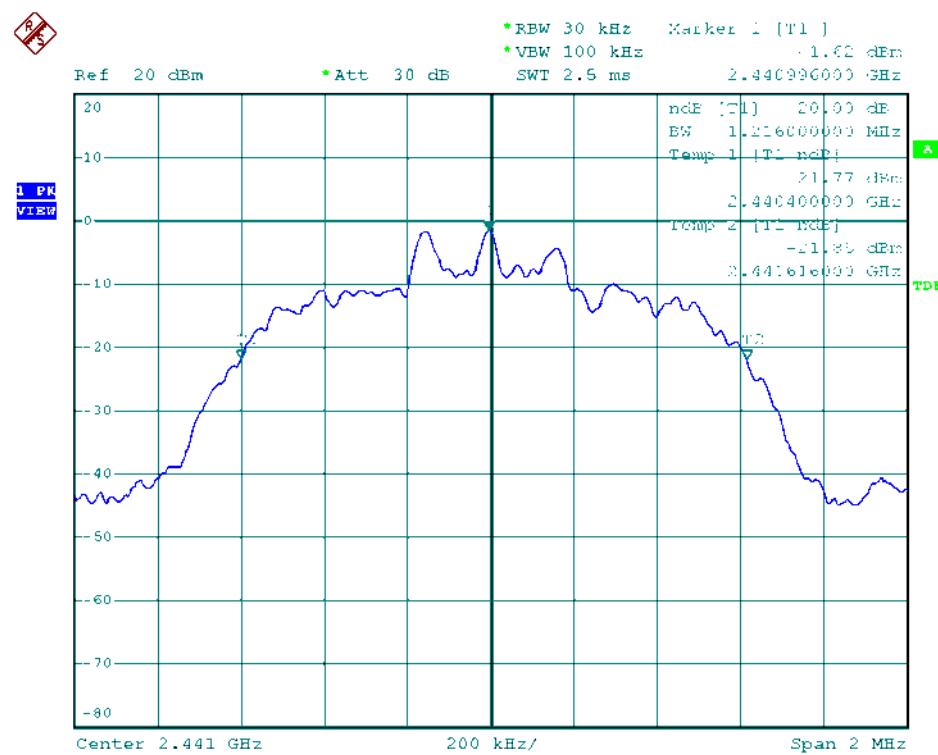
Modulation Standard: 8DPSK (3Mbps)

Channel: 00



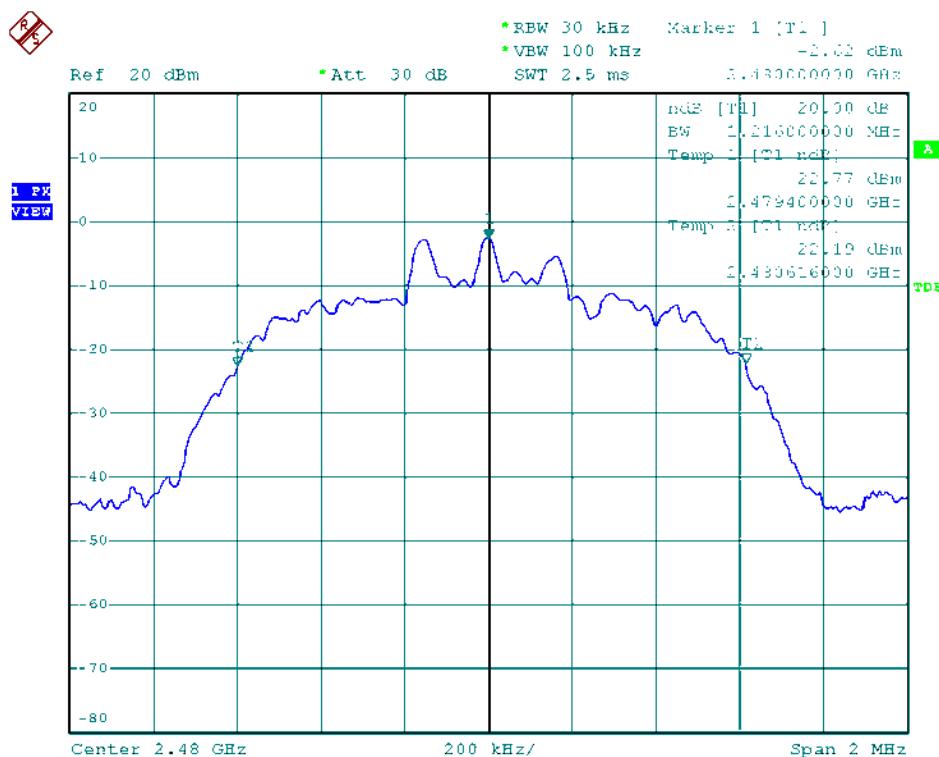
Modulation Standard: 8DPSK (3Mbps)

Channel: 39





Modulation Standard: 8DPSK (3Mbps)
Channel: 78





7. Frequencies Separation

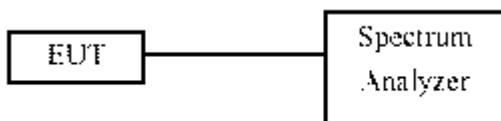
7.1 Test Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

7.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
- c. By using the MaxHold function record the separation of two adjacent channels.
- d. Measure the frequency difference of these two adjacent channels.

7.3 Test Setup Layout



7.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14



7.5 Test Result and Data

Test Date: Oct. 24, 2013

Temperature: 24 °C

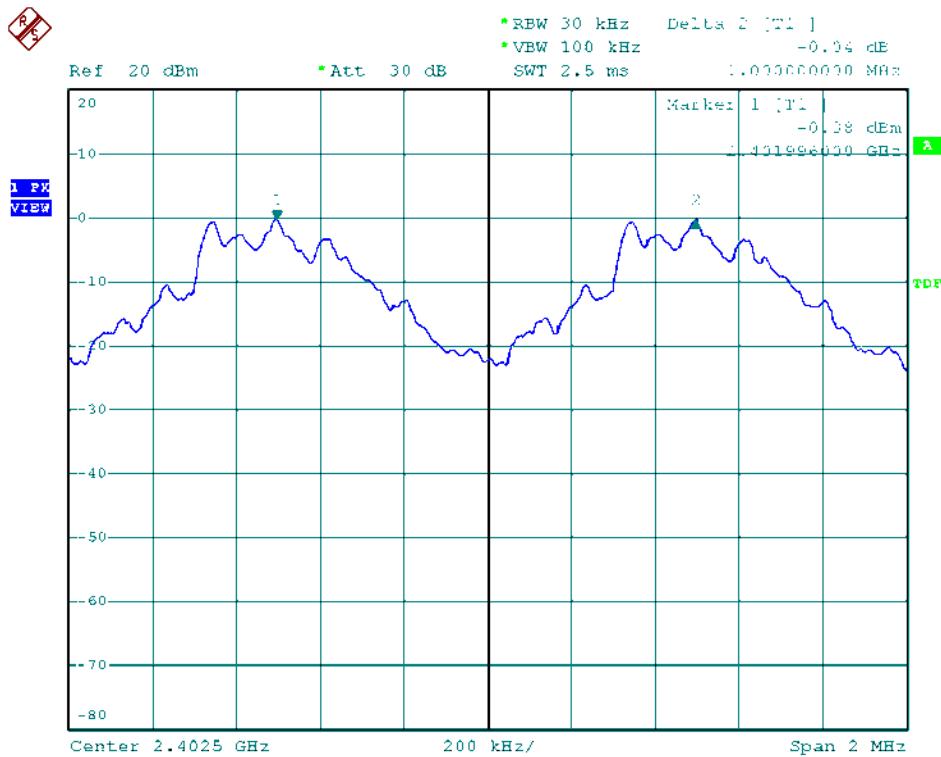
Atmospheric pressure: 1020 hPa

Humidity: 54 %

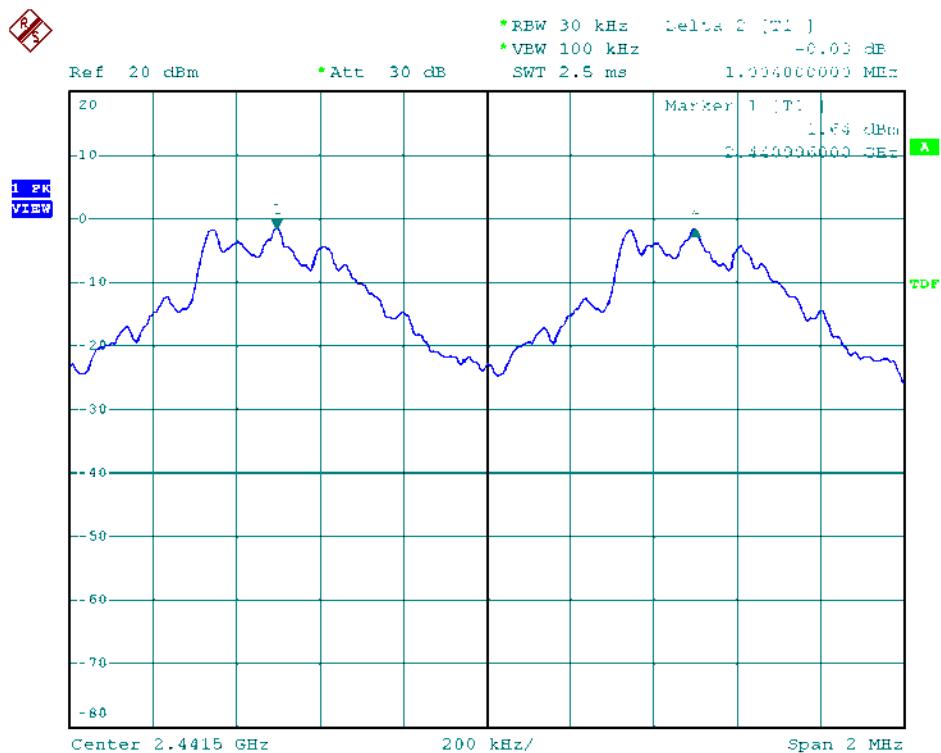
Modulation Type	Channel	Frequency (MHz)	Frequency Separation (MHz)
GFSK (1Mbps)	00	2402	1.000
	39	2441	1.004
	78	2480	1.000
$\pi/4$ -DQPSK (2 Mbps)	00	2402	1.000
	39	2441	1.004
	78	2480	1.000
8DPSK (3Mbps)	00	2402	1.000
	39	2441	1.000
	78	2480	1.000



Modulation Standard: GFSK (1Mbps)
Channel: 00

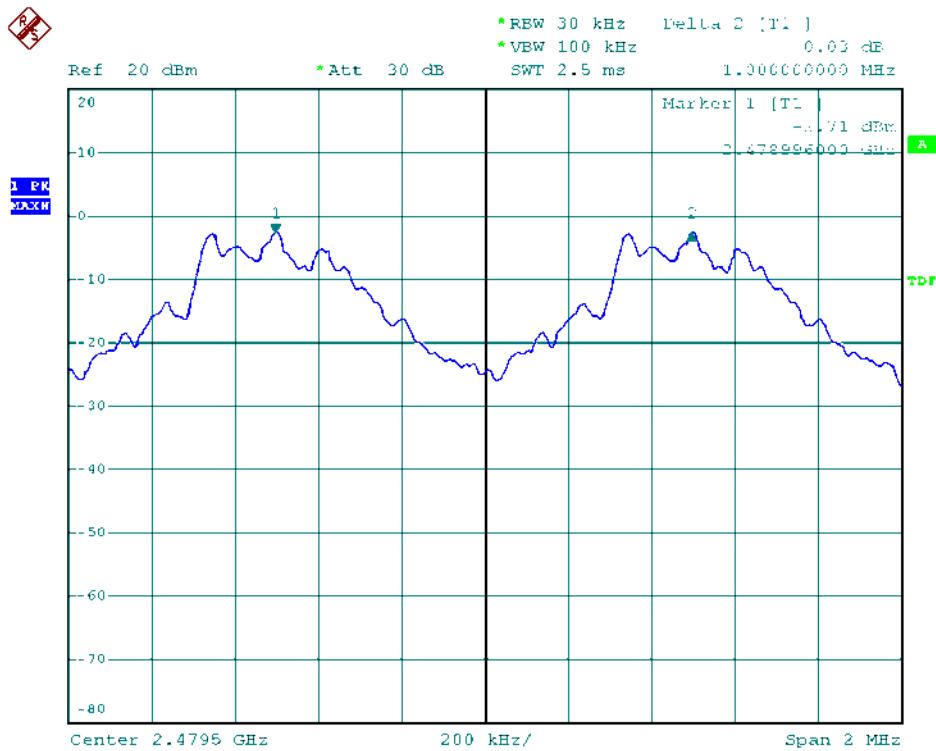


Modulation Standard: GFSK (1Mbps)
Channel: 39

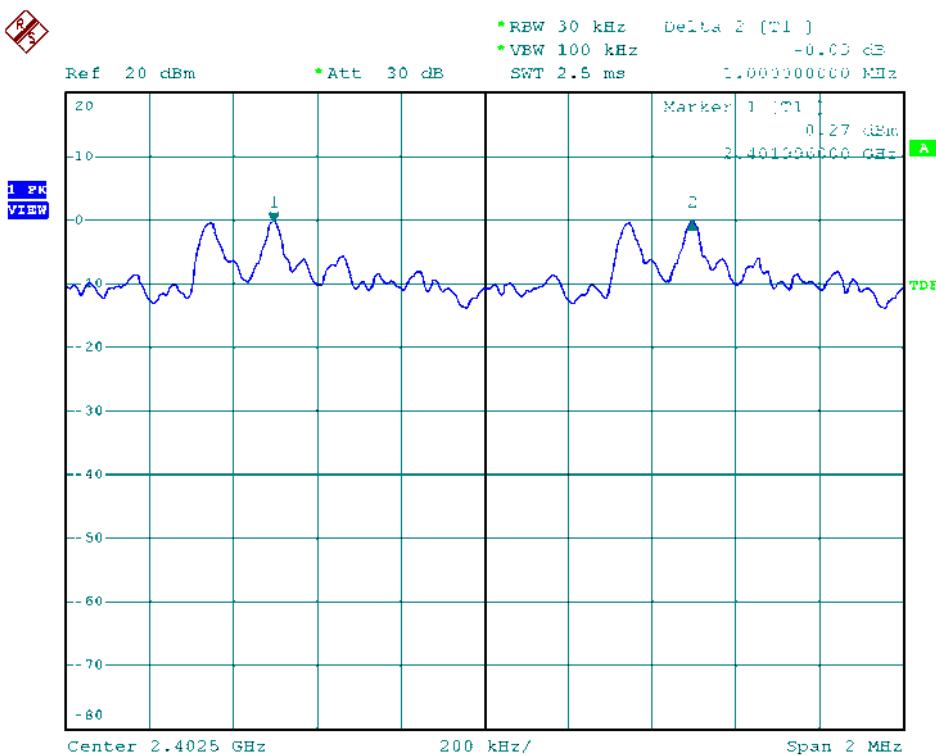




Modulation Standard: GFSK (1Mbps)
Channel: 78

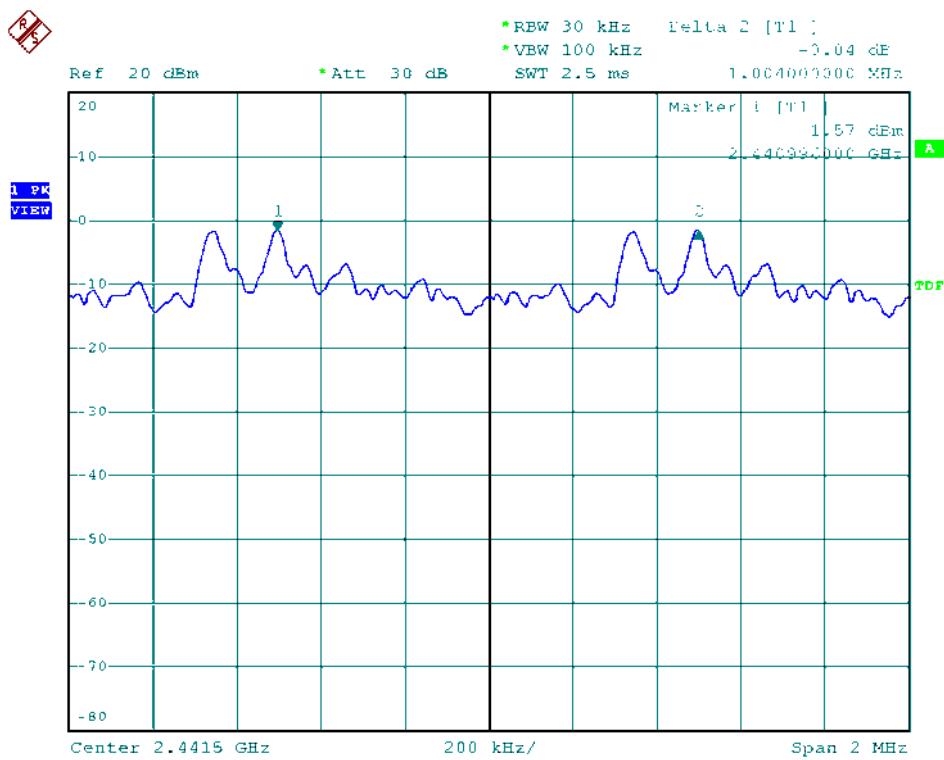


Modulation Standard: $\pi/4$ -DQPSK (2Mbps)
Channel: 00

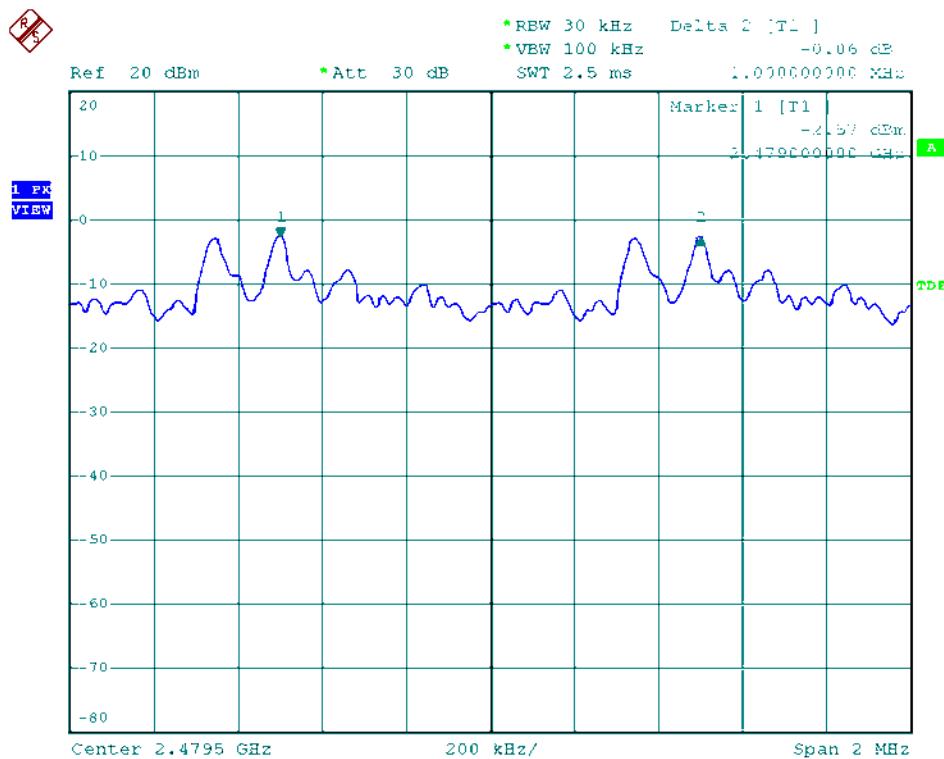




Modulation Standard: $\pi/4$ -DQPSK (2Mbps)
Channel: 39



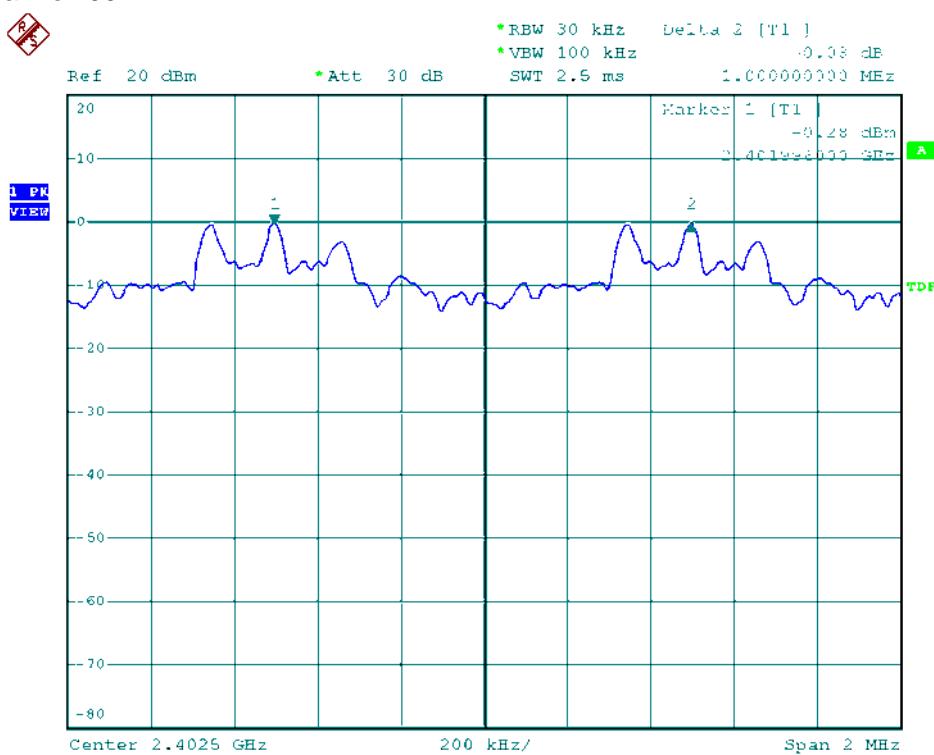
Modulation Standard: $\pi/4$ -DQPSK (2Mbps)
Channel: 78





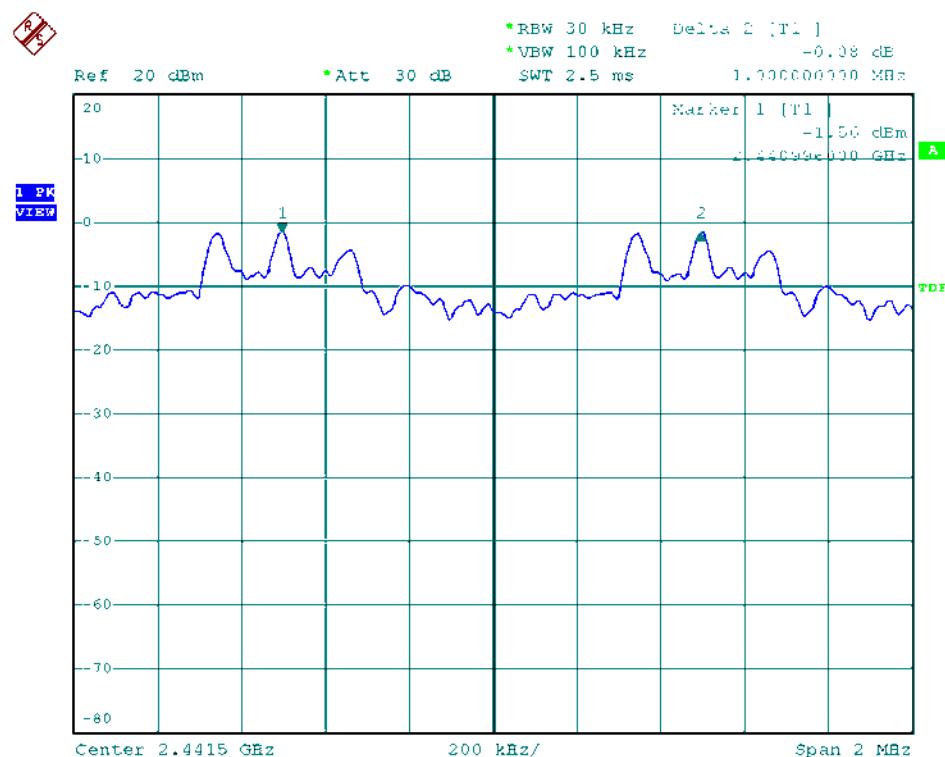
Modulation Standard: 8DPSK (3Mbps)

Channel: 00



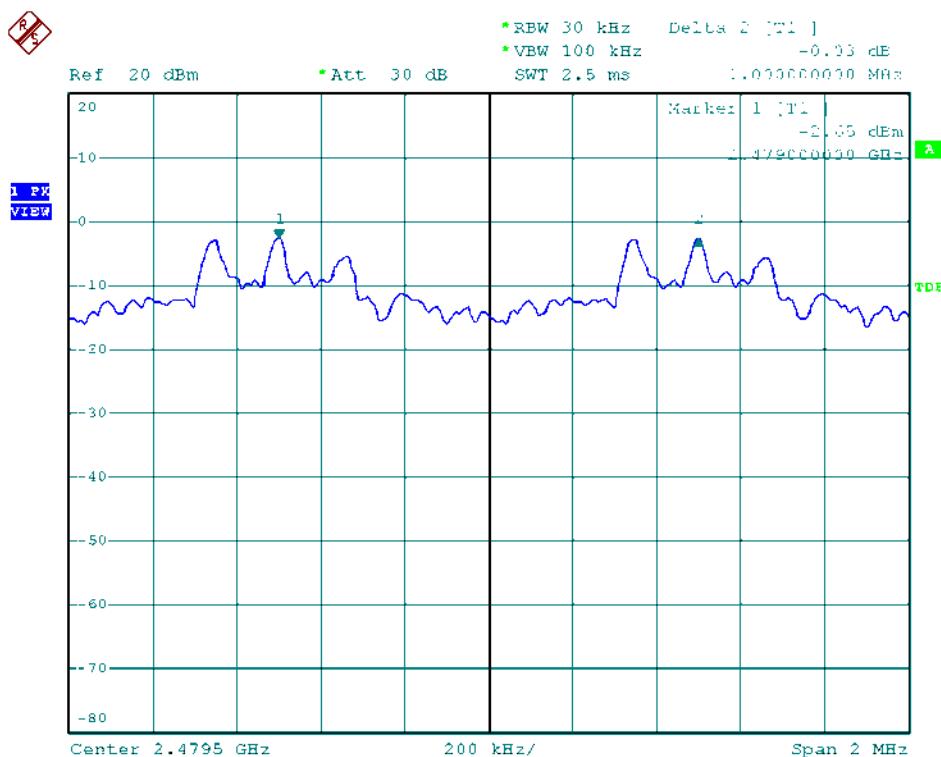
Modulation Standard: 8DPSK (3Mbps)

Channel: 39





Modulation Standard: 8DPSK (3Mbps)
Channel: 78





8. Dwell Time on each channel

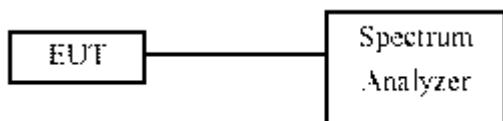
8.1 Test Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

8.2 Test Procedures

1. The transmitter output was connected to the spectrum analyzer.
2. Adjust the center frequency to measure frequency, then set zero span mode.
2. Set RBW of spectrum analyzer to 1 MHz and VBW to 1 MHz.
4. Measure the time duration of one transmission on the measured frequency.

8.3 Test Setup Layout



8.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14



8.5 Test Result and Data

Test Date: Oct. 24, 2013

Temperature: 24 °C

Atmospheric pressure: 1020 hPa

Humidity: 54 %

Modulation Type	Channel	Frequency (MHz)	Dwell Time (ms)
GFSK DH1	00	2402	128.68
	39	2441	128.04
	78	2480	128.04
GFSK DH3	00	2402	265.75
	39	2441	265.75
	78	2480	265.75
GFSK DH5	00	2402	310.82
	39	2441	310.82
	78	2480	310.82
$\pi/4$ -DQPSK 2DH5	00	2402	310.82
	39	2441	311.89
	78	2480	311.89
8DPSK 3DH5	00	2402	311.89
	39	2441	311.89
	78	2480	311.89

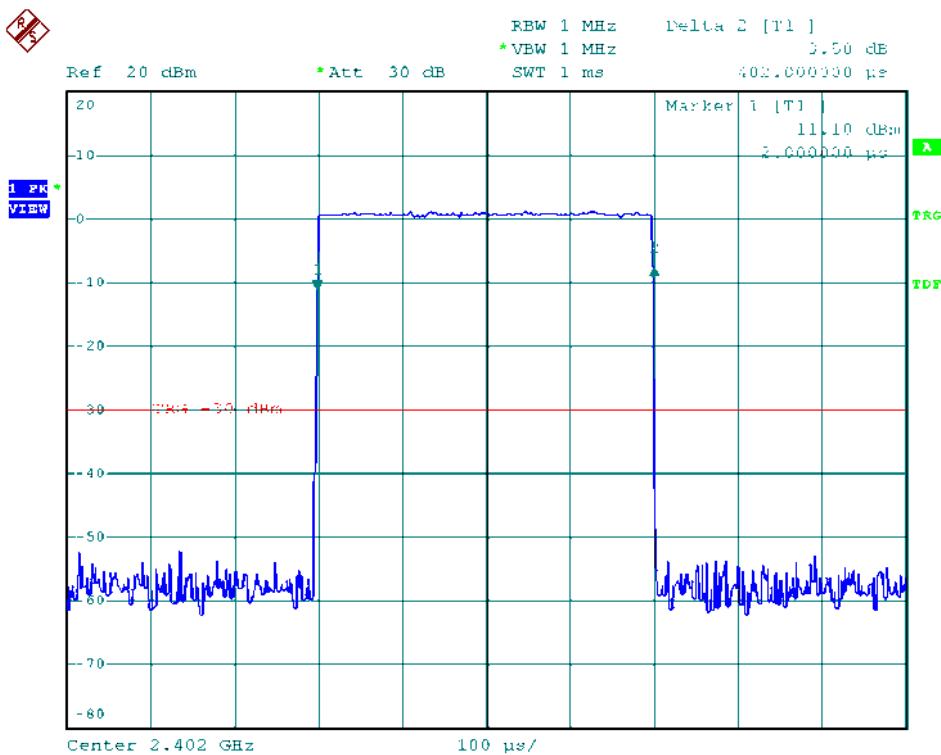
Test period: 0.4(second/ channel) x 79 channel=31.6 second

Example:

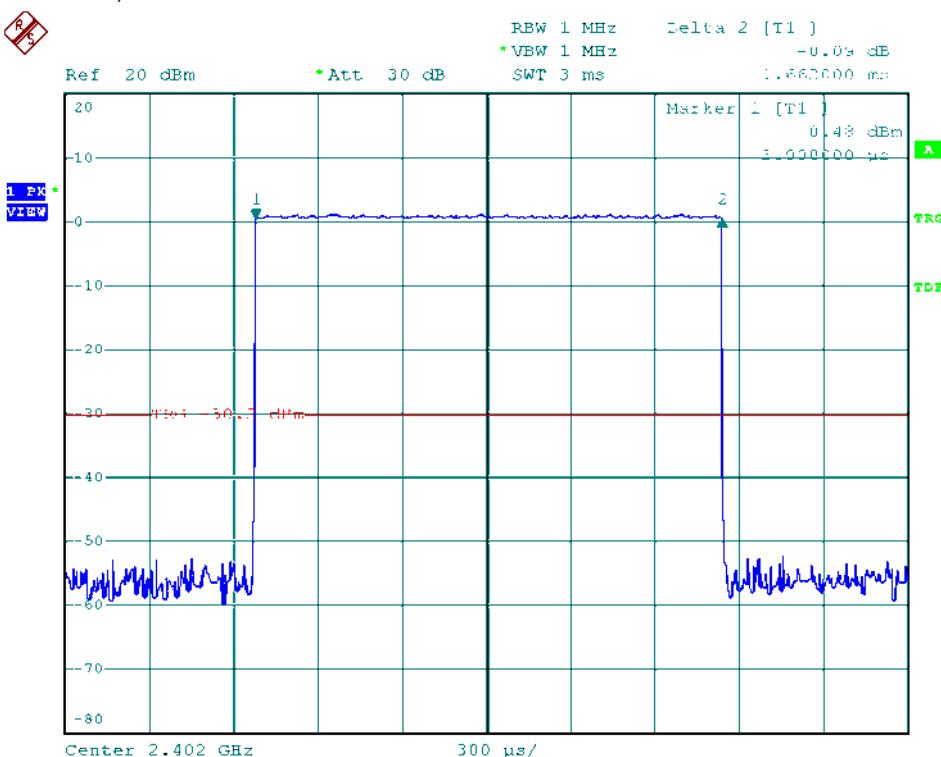
CH0,DH1 mode= $0.402 \text{ (ms)} * (1600/2)/79 * 31.6 = 128.68 \text{ (ms)}$ CH0,DH3 mode = $1.662 \text{ (ms)} * (1600/4)/79 * 31.6 = 265.75 \text{ (ms)}$ CH0,DH5 mode = $2.910 \text{ (ms)} * (1600/6)/79 * 31.6 = 310.82 \text{ (ms)}$



Modulation Standard: GFSK (1Mbps)
Channel: 00, Rate: DH1

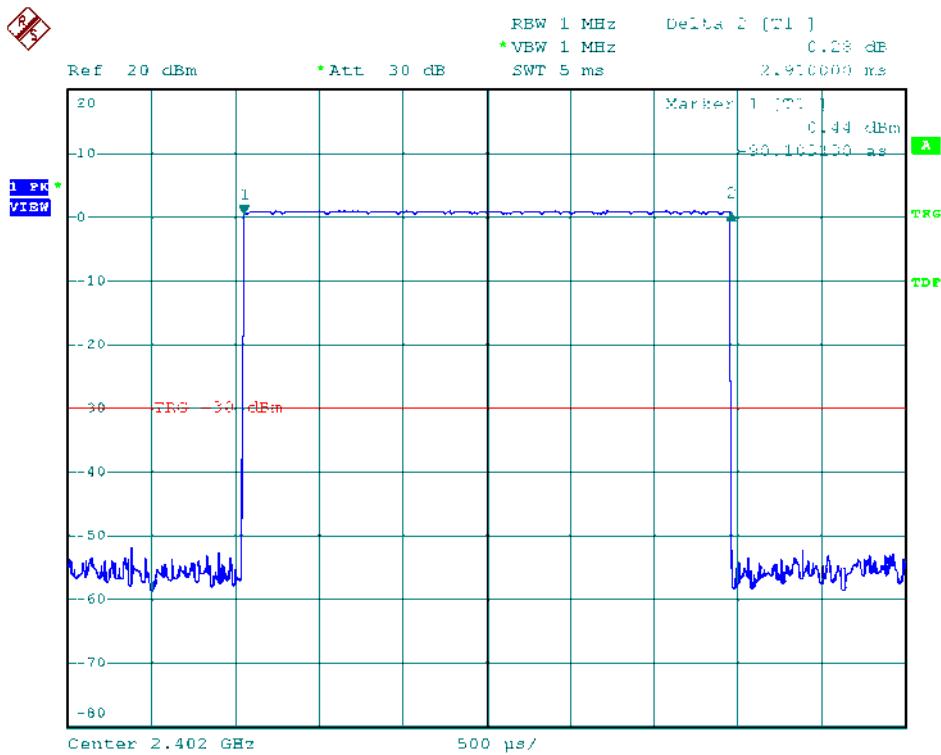


Modulation Standard: GFSK (1Mbps)
Channel: 00, Rate: DH3

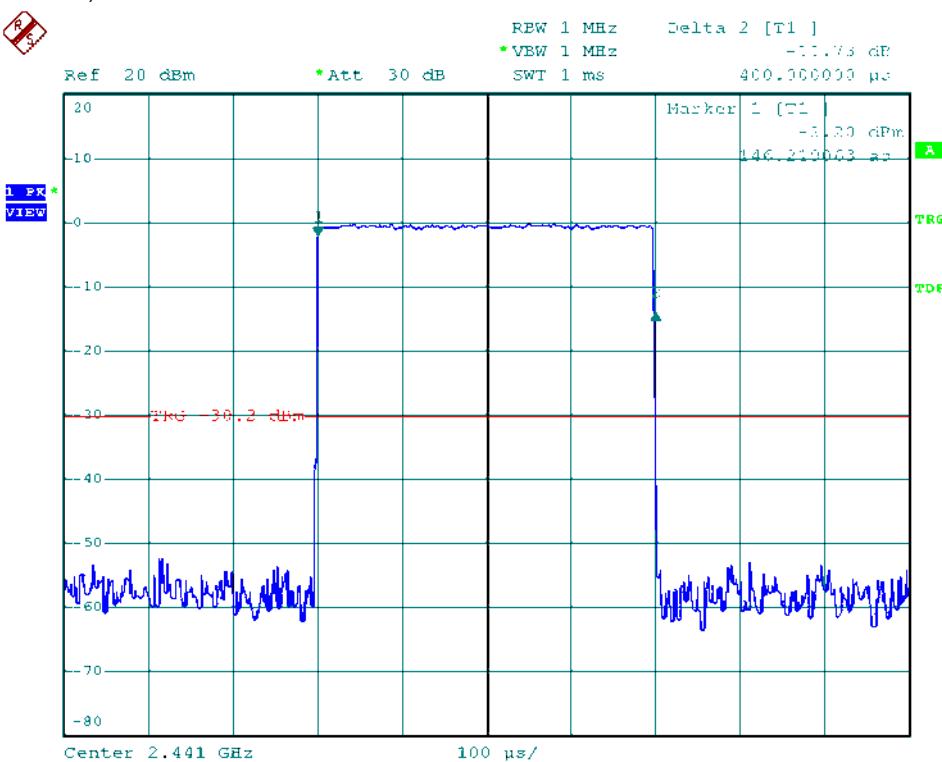




Modulation Standard: GFSK (1Mbps)
Channel: 00, Rate: DH5

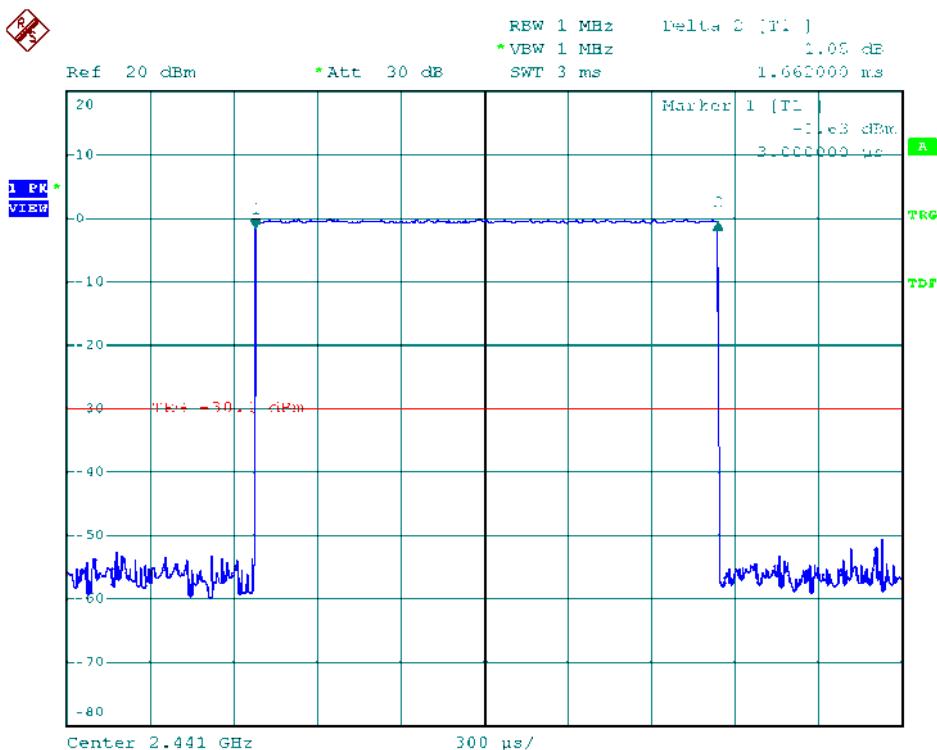


Modulation Standard: GFSK (1Mbps)
Channel: 39, Rate: DH1

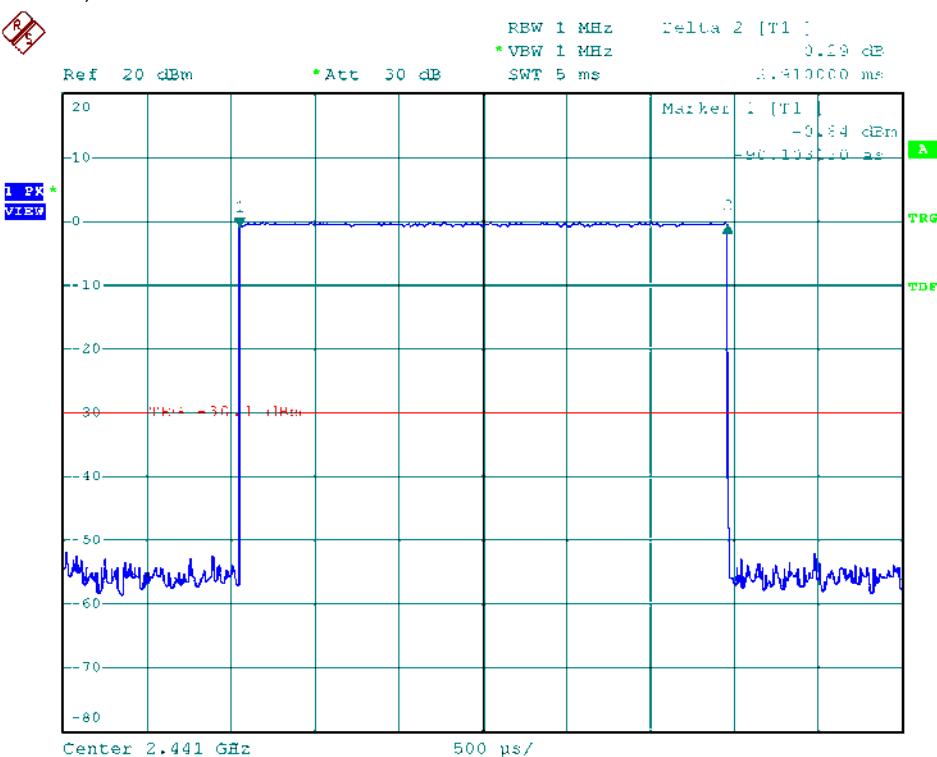




Modulation Standard: GFSK (1Mbps)
Channel: 39, Rate: DH3

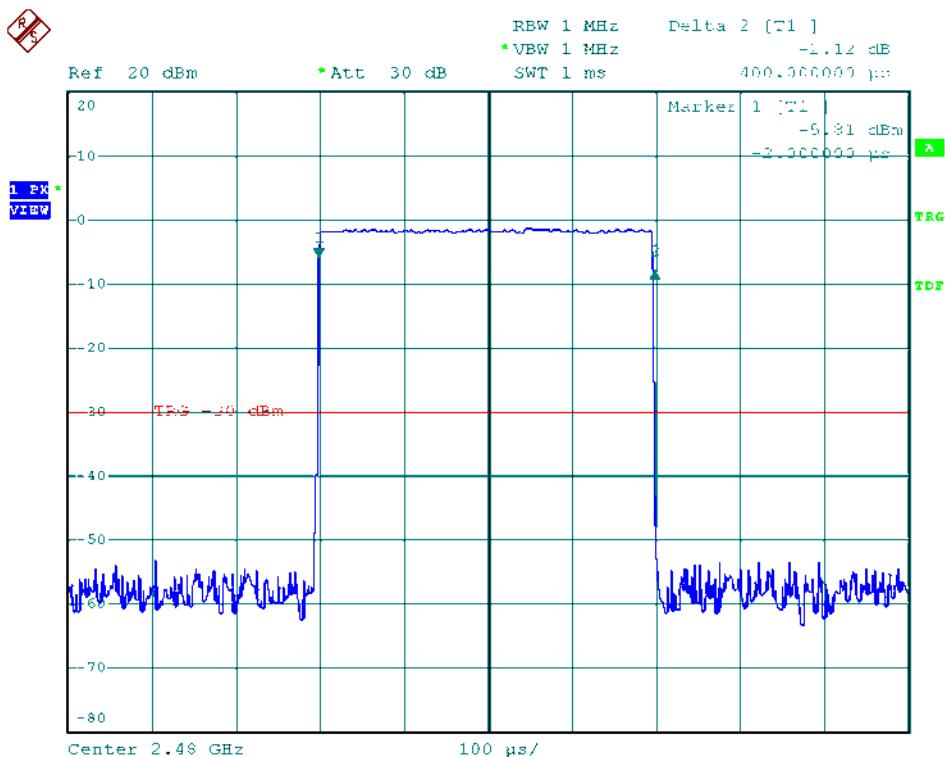


Modulation Standard: GFSK (1Mbps)
Channel: 39, Rate: DH5

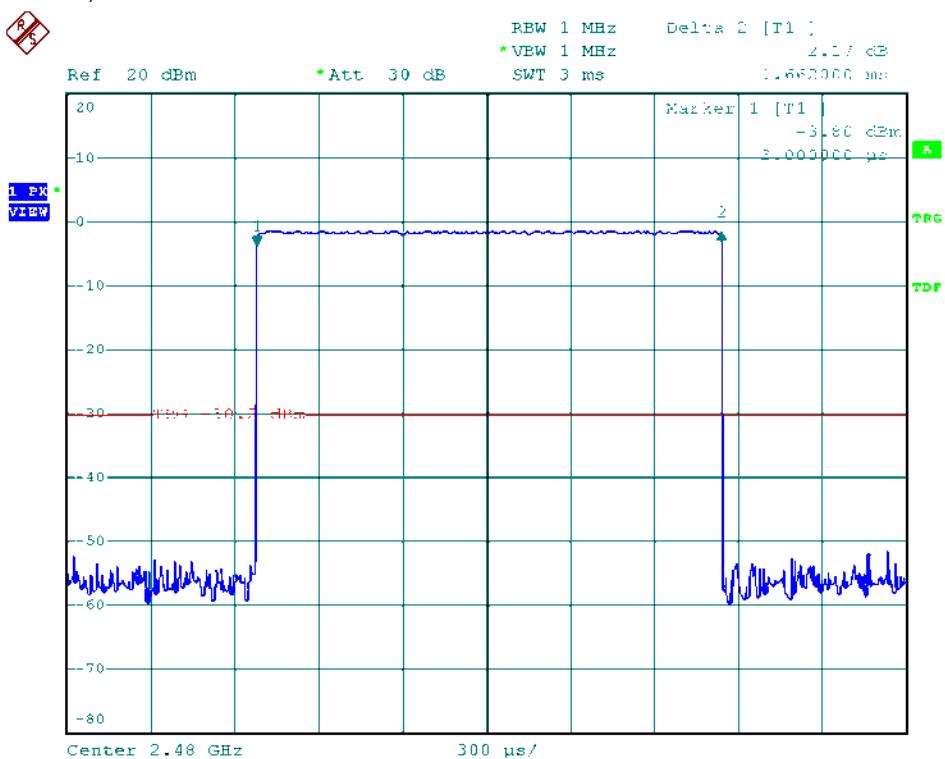




Modulation Standard: GFSK (1Mbps)
Channel: 78, Rate: DH1

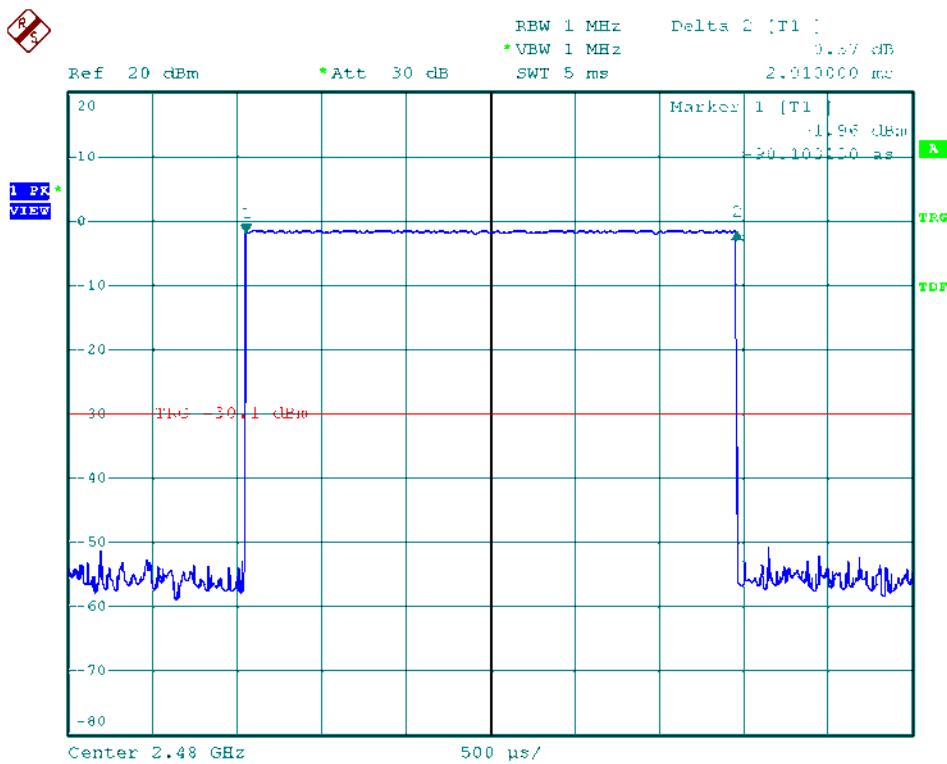


Modulation Standard: GFSK (1Mbps)
Channel: 78, Rate: DH3

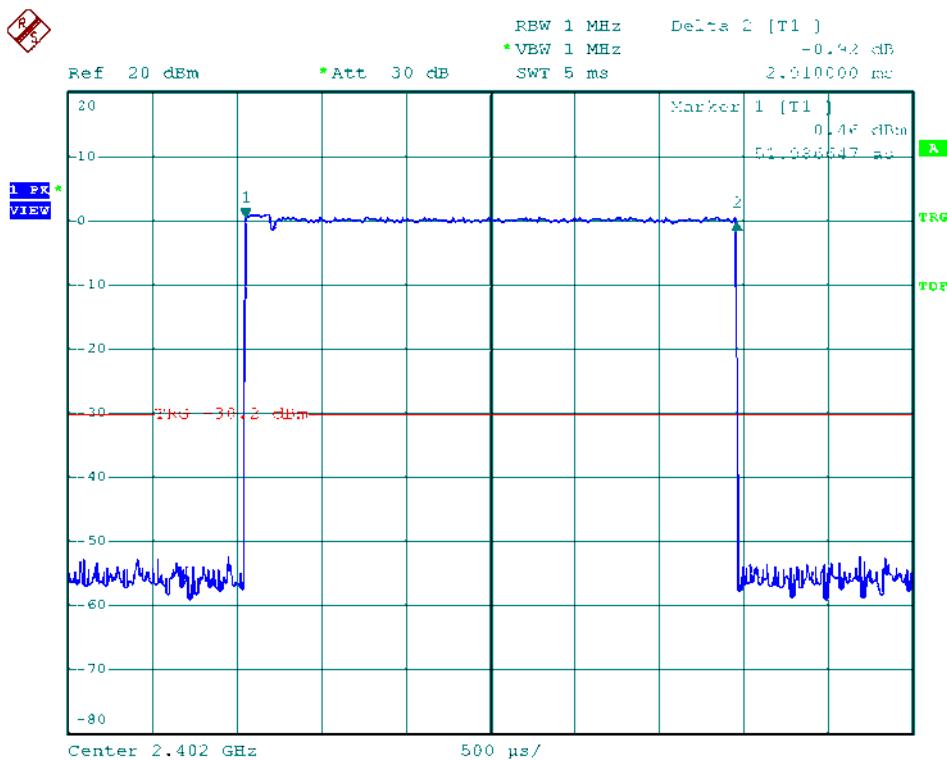




Modulation Standard: GFSK (1Mbps)
Channel: 78, Rate: DH5

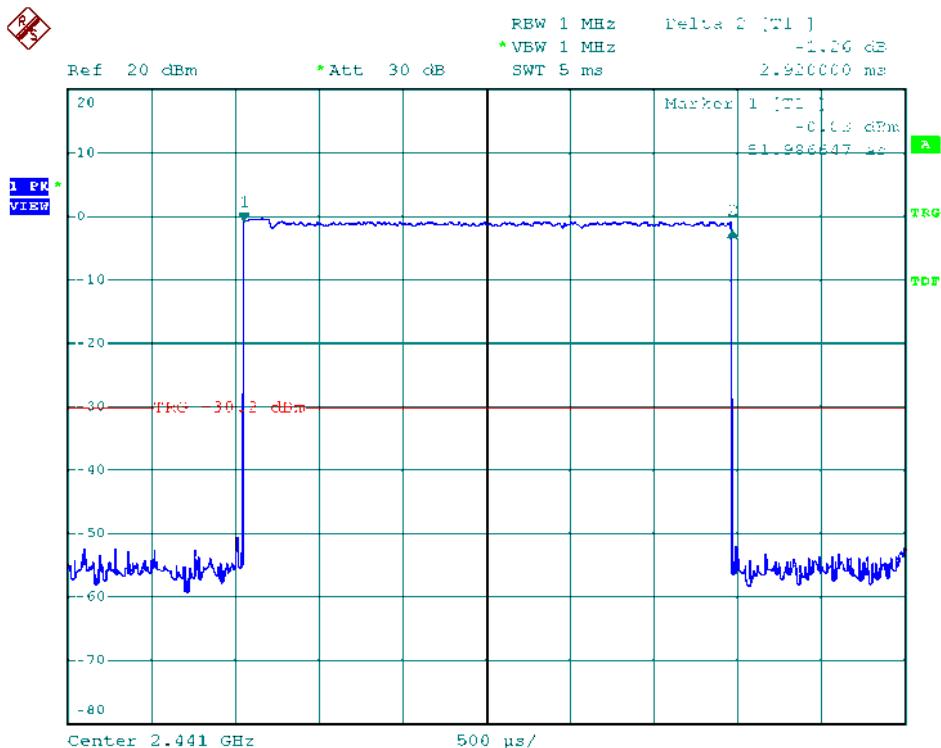


Modulation Standard: $\pi/4$ -DQPSK (2Mbps)
Channel: 00, Rate: 2DH5

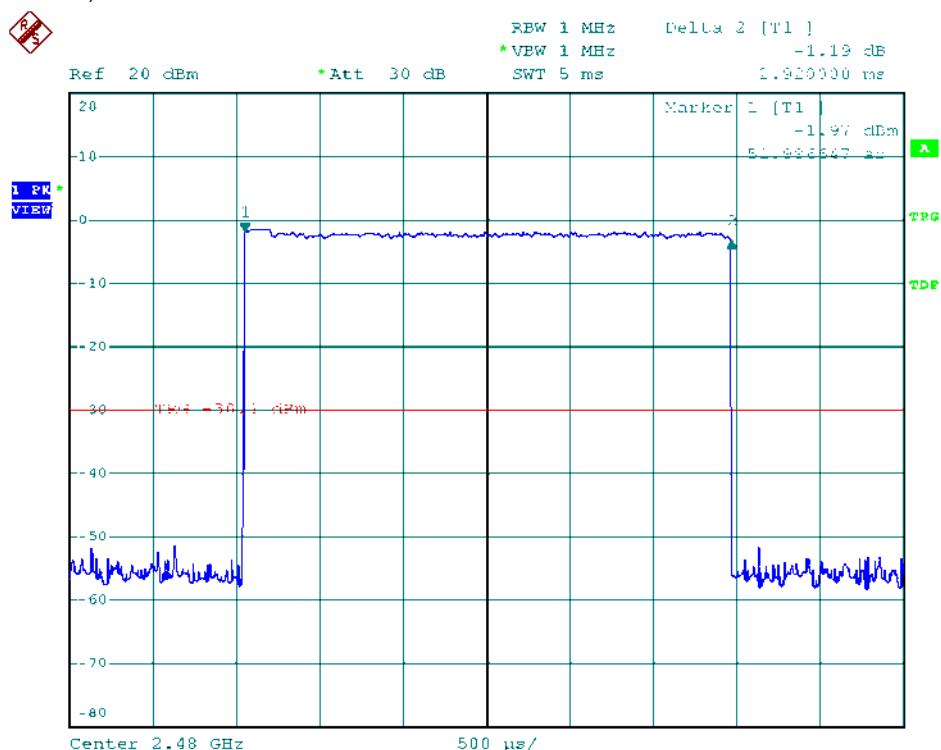




Modulation Standard: $\pi/4$ -DQPSK (2Mbps)
Channel: 39, Rate: 2DH5



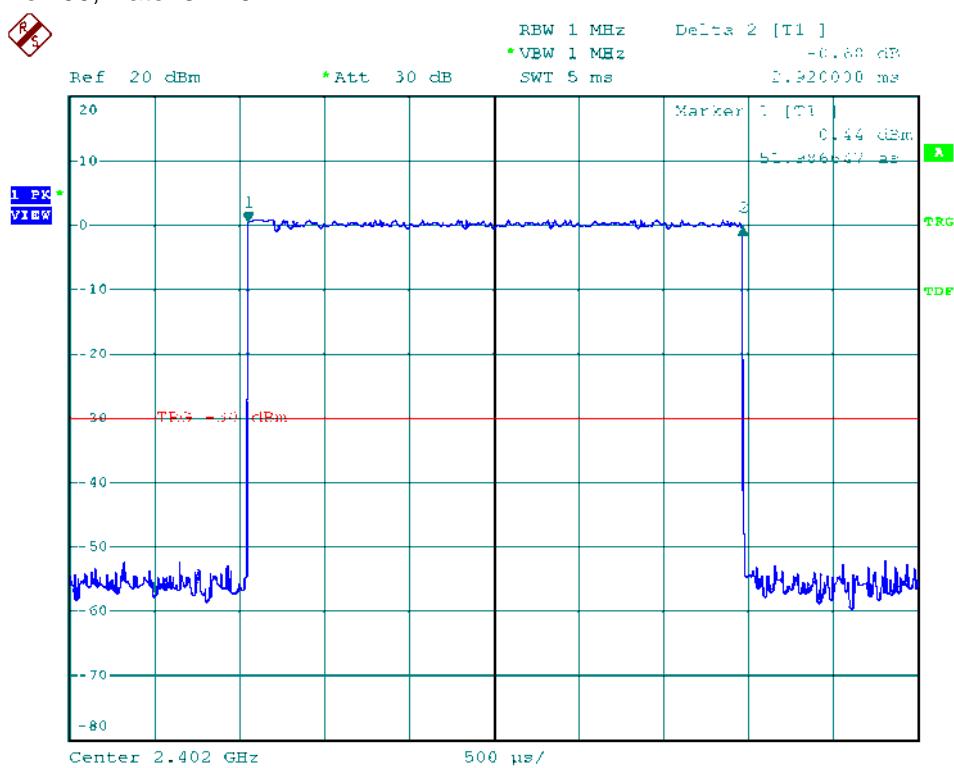
Modulation Standard: $\pi/4$ -DQPSK (2Mbps)
Channel: 78, Rate: 2DH5





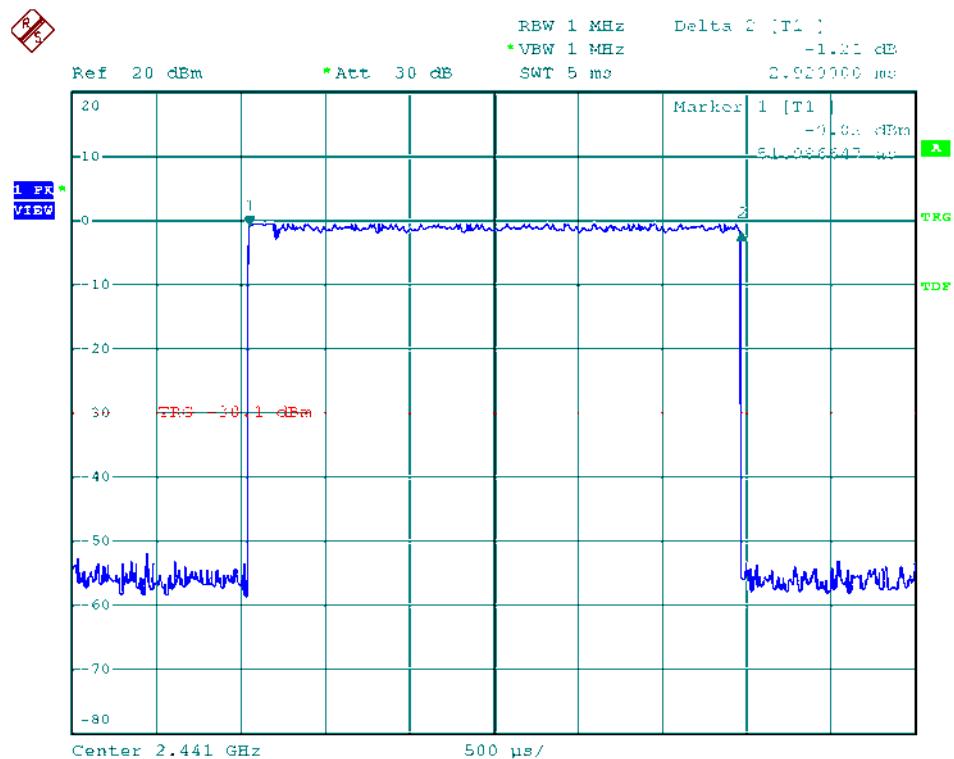
Modulation Standard: 8DPSK (3Mbps)

Channel: 00, Rate: 3DH5



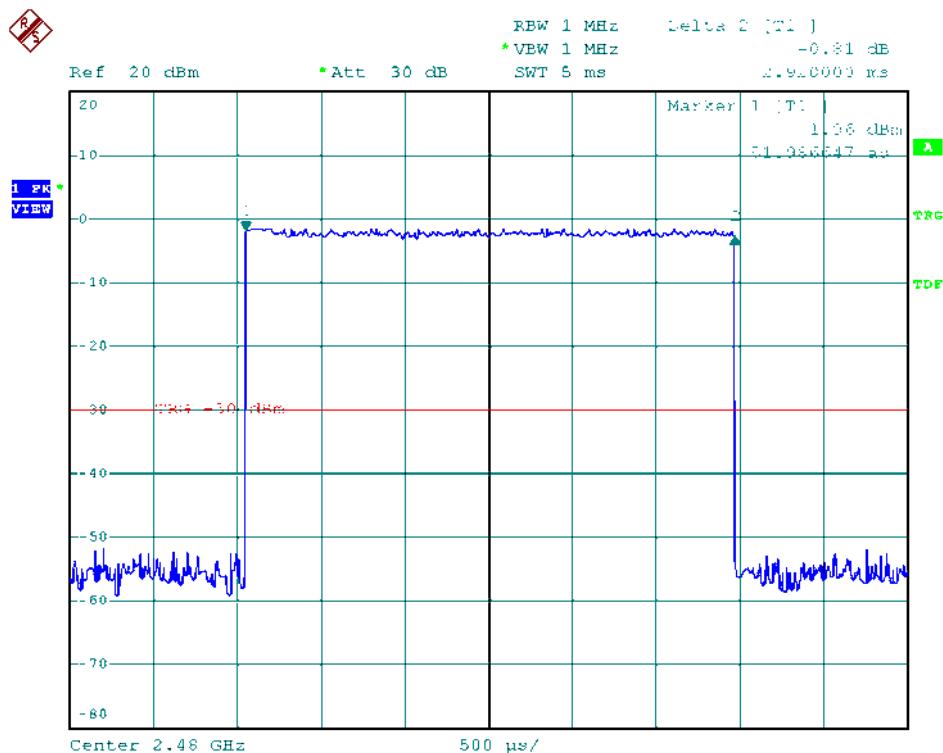
Modulation Standard: 8DPSK (3Mbps)

Channel: 39, Rate: 3DH5





Modulation Standard: 8DPSK (3Mbps)
Channel: 78, Rate: 3DH5





9. Number of Hopping Channels

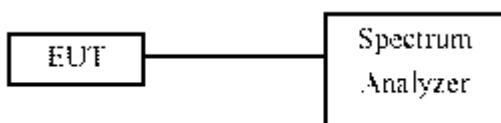
9.1 Test Limit

Frequency hopping systems in the 2400 ~ 2483.5 MHz band shall use at least 15 channels.

9.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. 2. Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
- c. 3. Set the MaxHold function, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been record.

9.3 Test Setup Layout



9.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14

9.5 Test Result and Data

Test Date: Oct. 24, 2013

Temperature: 24 °C

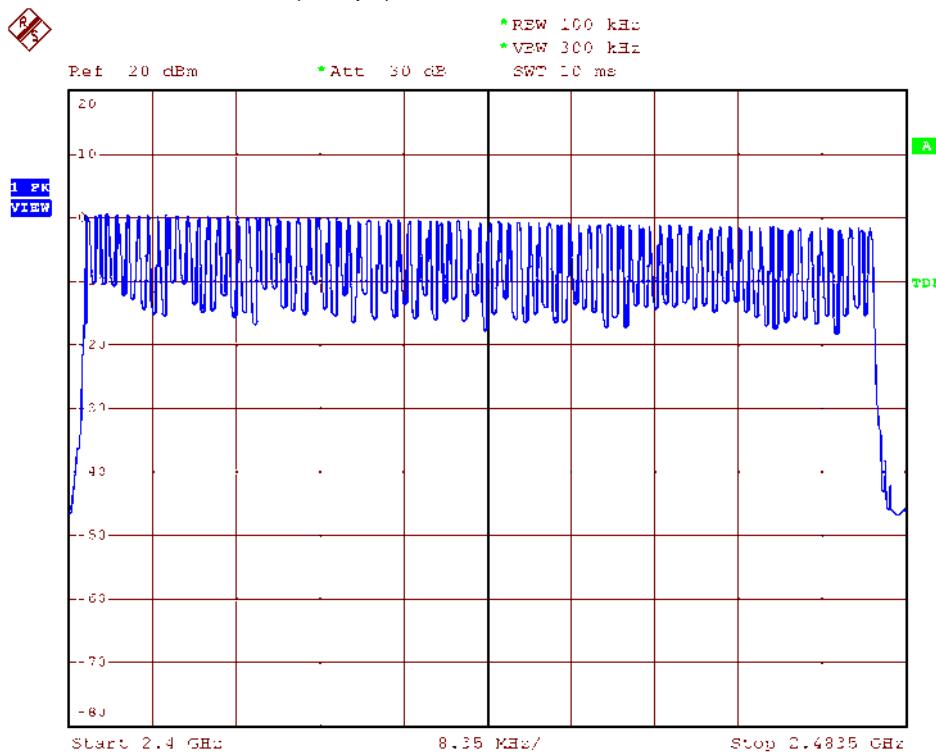
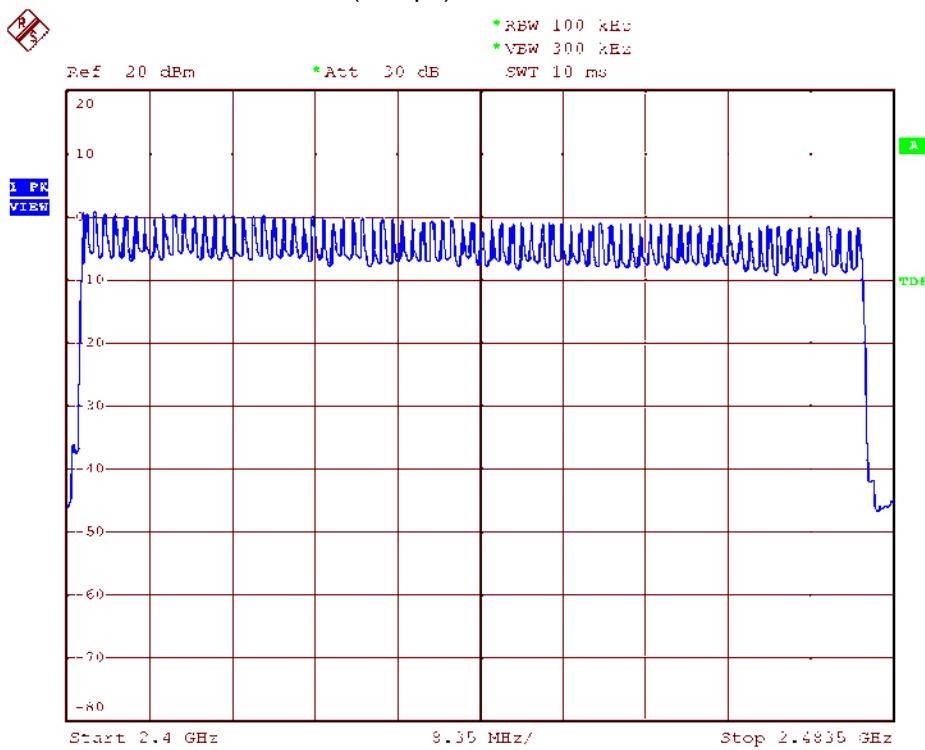
Atmospheric pressure: 1020 hPa

Humidity: 54 %

Modulation Type	Hopping Channels
GFSK (1Mbps)	79
$\pi/4$ -DQPSK (2Mbps)	79
8DPSK (3Mbps)	79

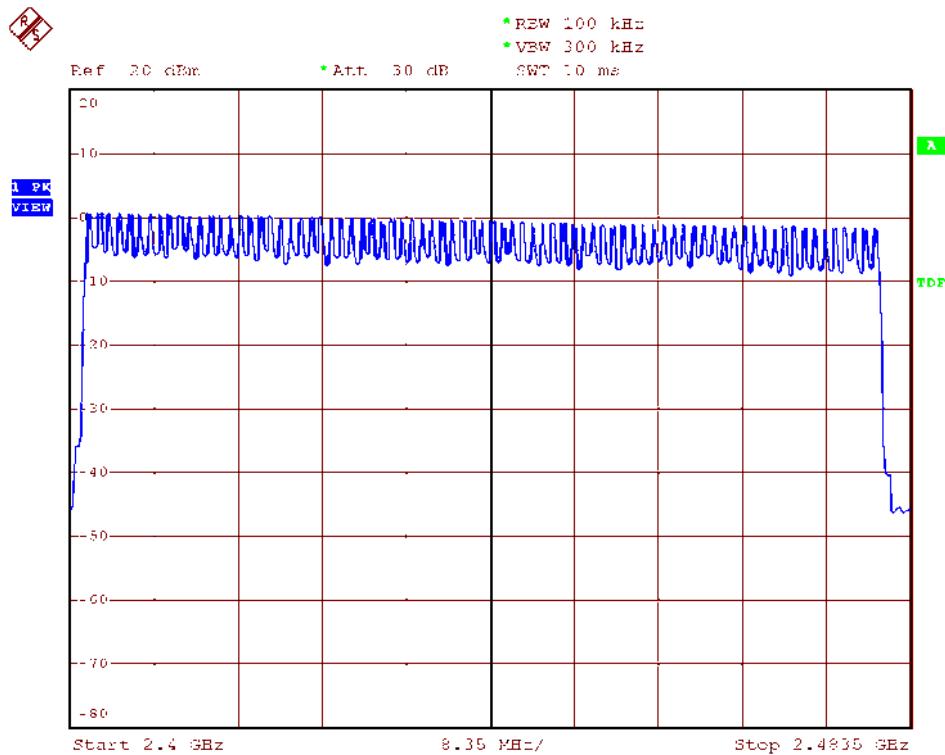


Modulation Standard: GFSK (1Mbps)

Modulation Standard: $\pi/4$ -DQPSK (2Mbps)



Modulation Standard: 8DPSK (3Mbps)





10. Maximum Peak Output Power

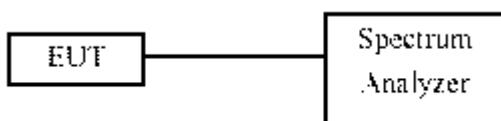
10.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

10.2 Test Procedures

The antenna port(RF output)of the EUT was connected to the input(RF input)of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

10.3 Test Setup Layout



10.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14



10.5 Test Result and Data

Test Date: Oct. 24, 2013

Temperature: 24 °C

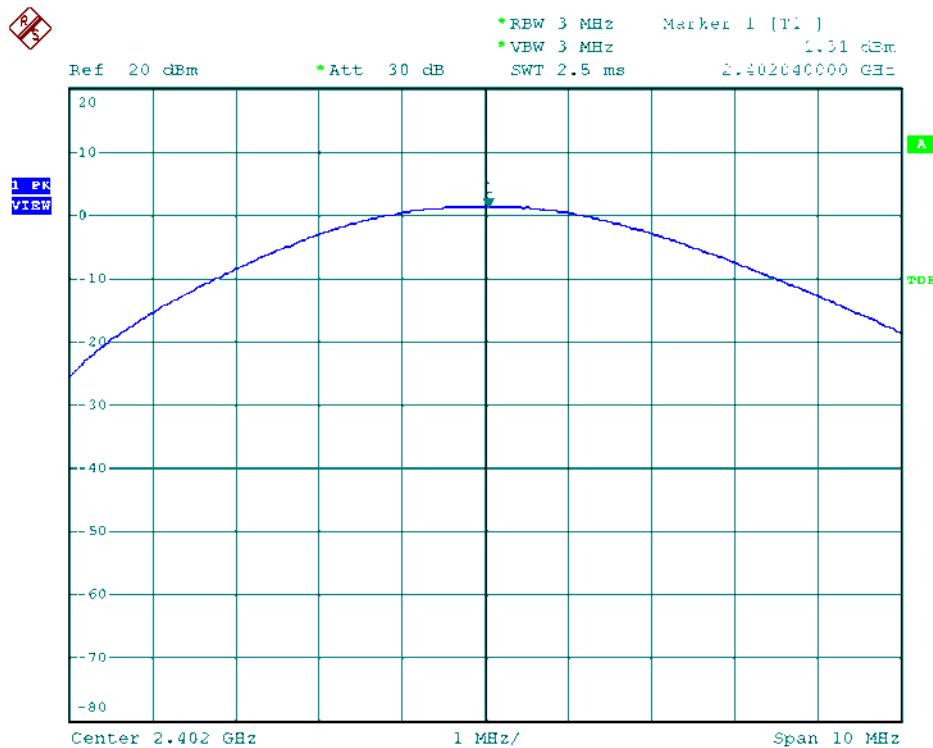
Atmospheric pressure: 1020 hPa

Humidity: 54 %

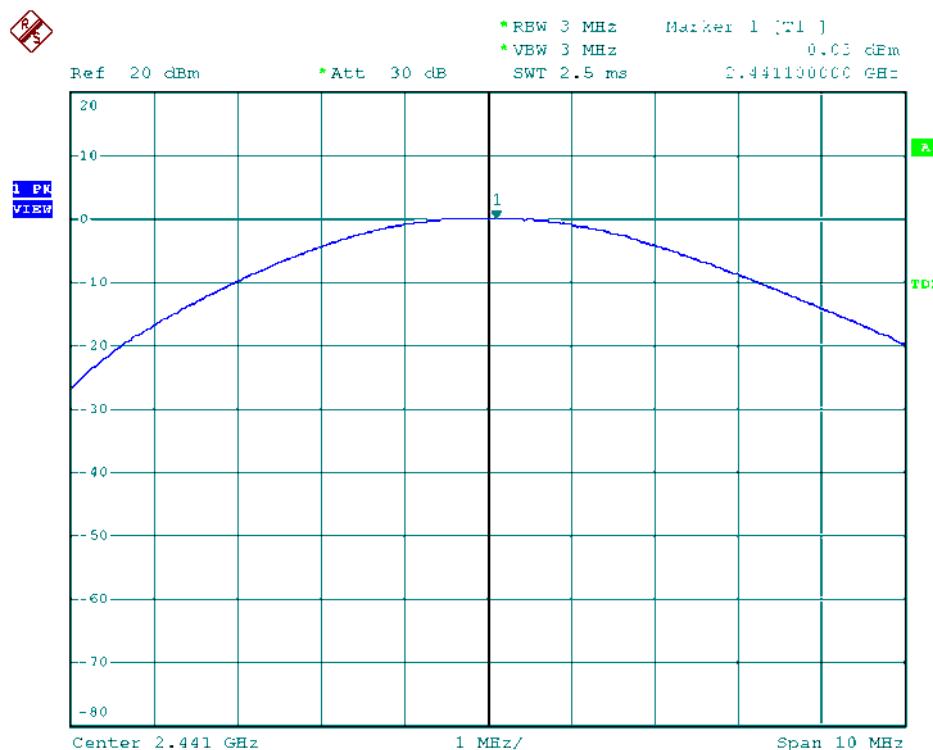
Modulation Type	Channel	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
GFSK (1Mbps)	00	2402	1.31	1.4
	39	2441	0.03	1.0
	78	2480	-0.97	0.8
$\pi/4$ -DQPSK (2Mbps)	00	2402	1.35	1.4
	39	2441	0.04	1.0
	78	2480	-0.98	0.8
8DPSK (3Mbps)	00	2402	1.66	1.5
	39	2441	0.39	1.1
	78	2480	-0.66	0.9



Modulation Standard: GFSK (1Mbps)
Channel: 00

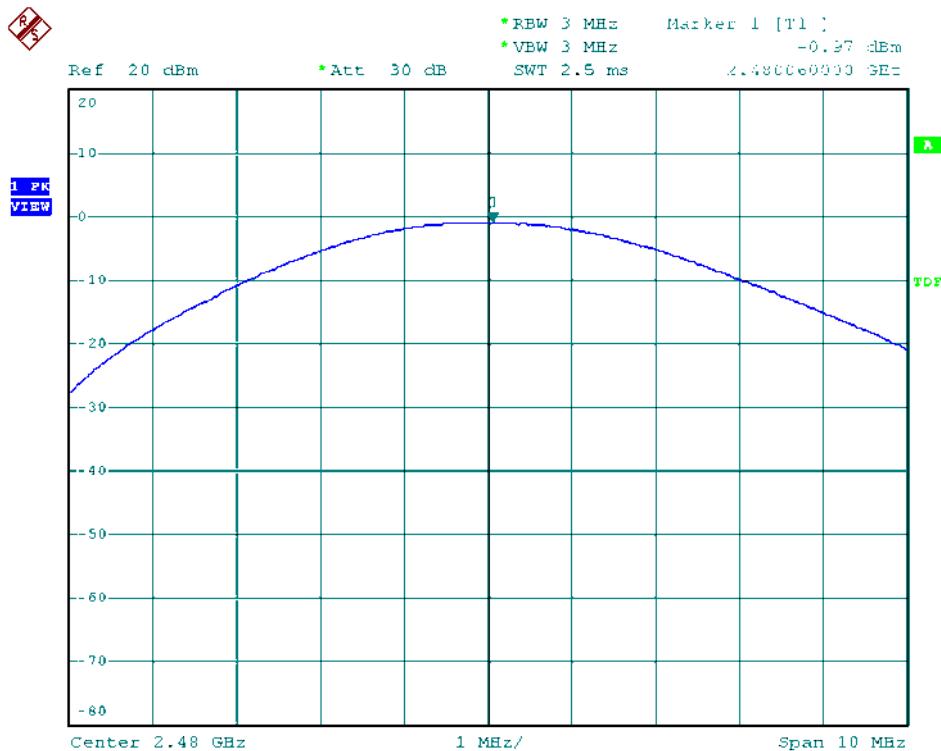


Modulation Standard: GFSK (1Mbps)
Channel: 39

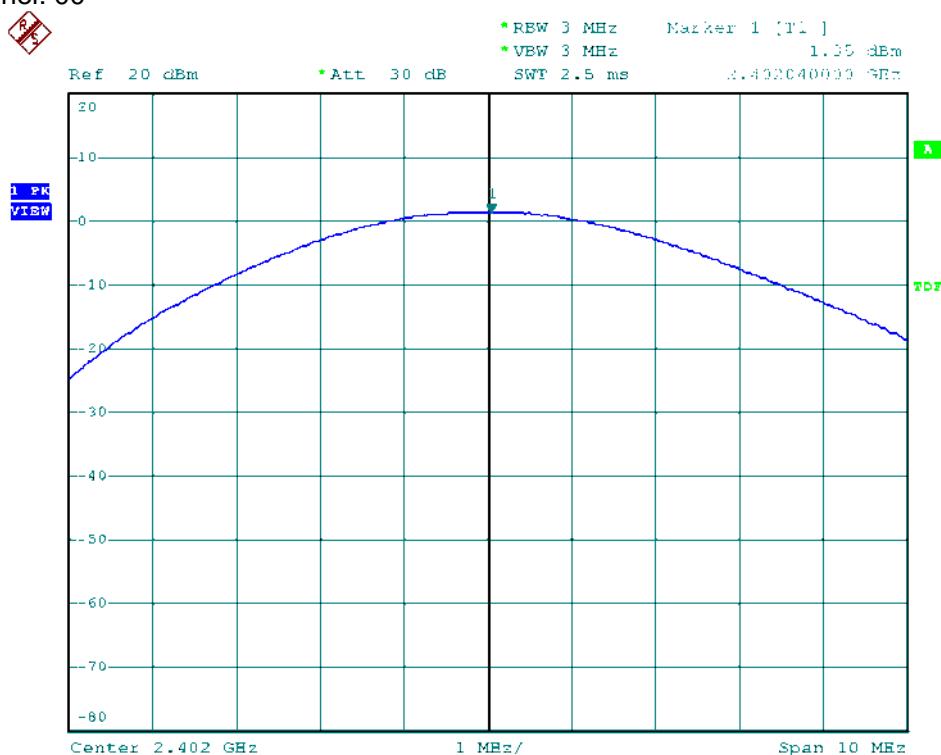




Modulation Standard: GFSK (1Mbps)
Channel: 78

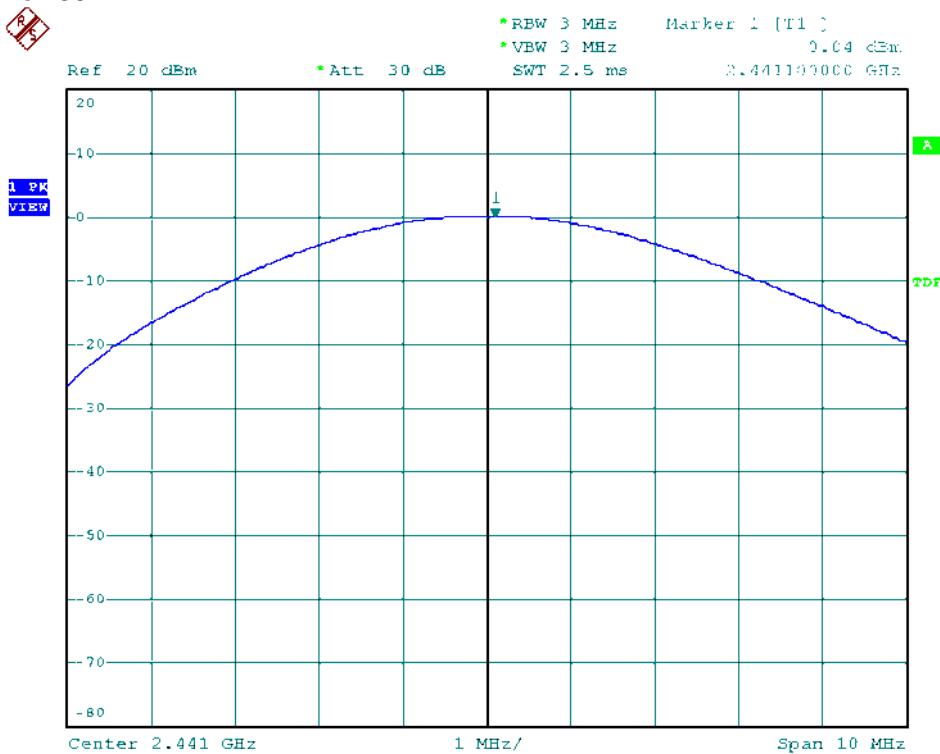


Modulation Standard: π/4-DQPSK (2Mbps)
Channel: 00

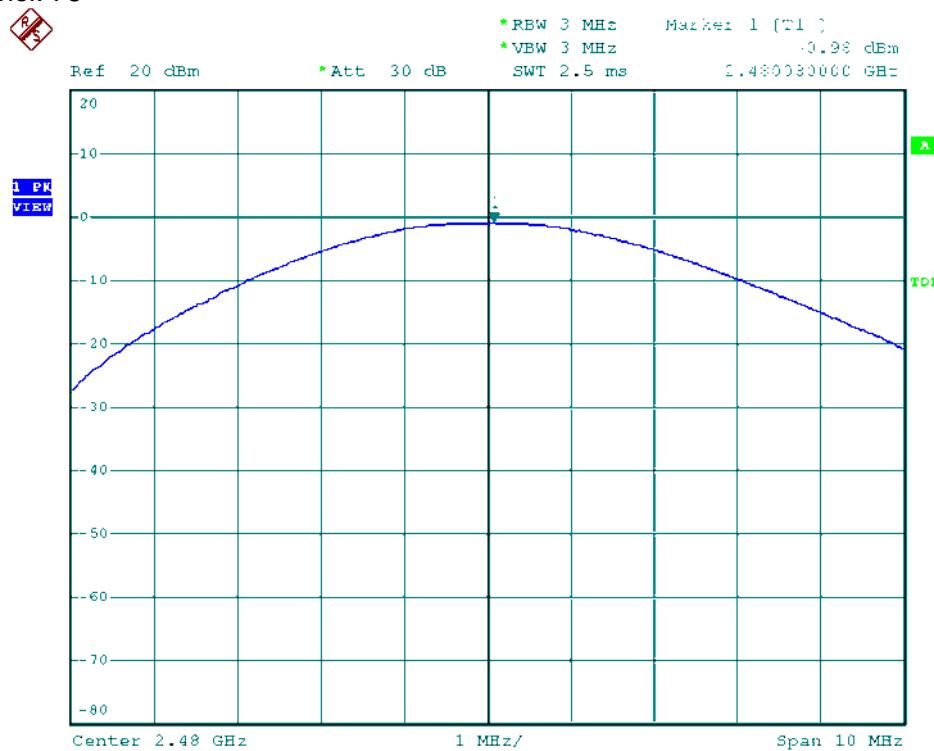




Modulation Standard: $\pi/4$ -DQPSK (2Mbps)
Channel: 39

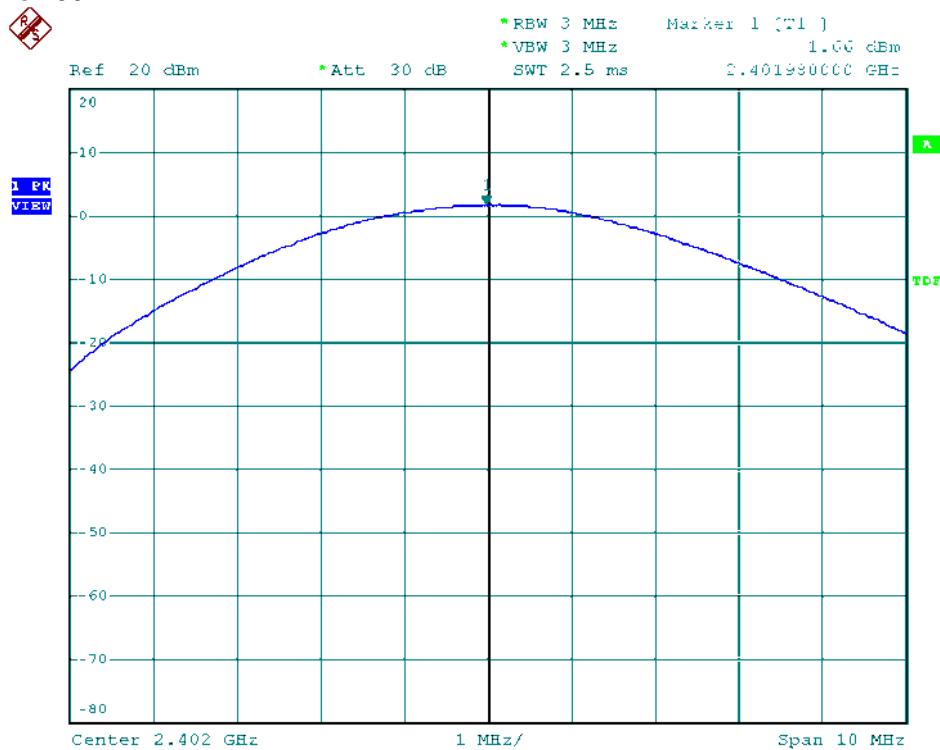


Modulation Standard: $\pi/4$ -DQPSK (2Mbps)
Channel: 78

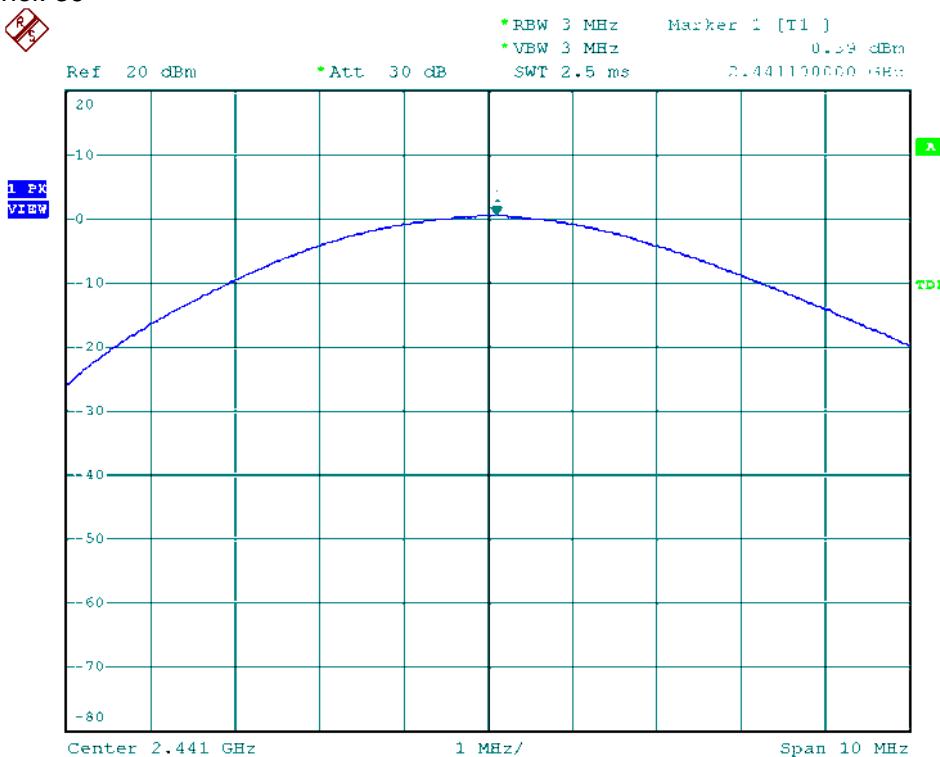




Modulation Standard: 8DPSK (3Mbps)
Channel: 00

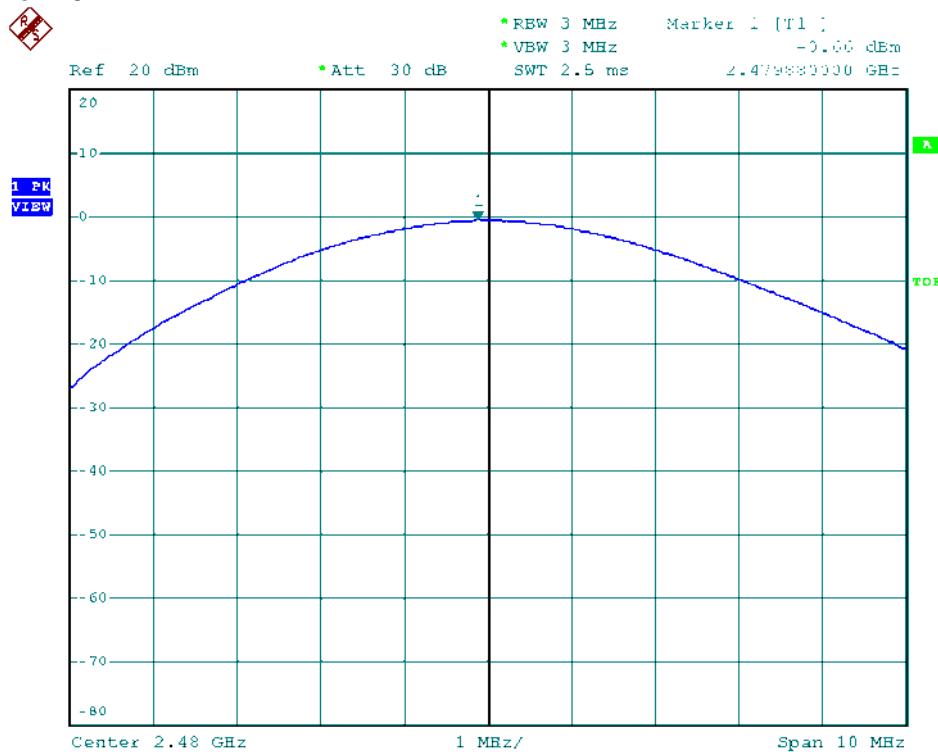


Modulation Standard: 8DPSK (3Mbps)
Channel: 39





Modulation Standard: 8DPSK (3Mbps)
Channel: 78





11. Band Edges Measurement

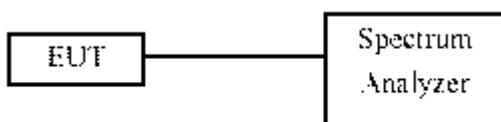
11.1 Test Limit

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

11.2 Test Procedure

- The transmitter output was connected to the spectrum analyzer via a low loss cable.
- Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- The band edges was measured and recorded.

11.3 Test Setup Layout



11.4 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14

11.5 Test Result and Data

Test Date: Aug. 20, 2013

Temperature: 26 °C

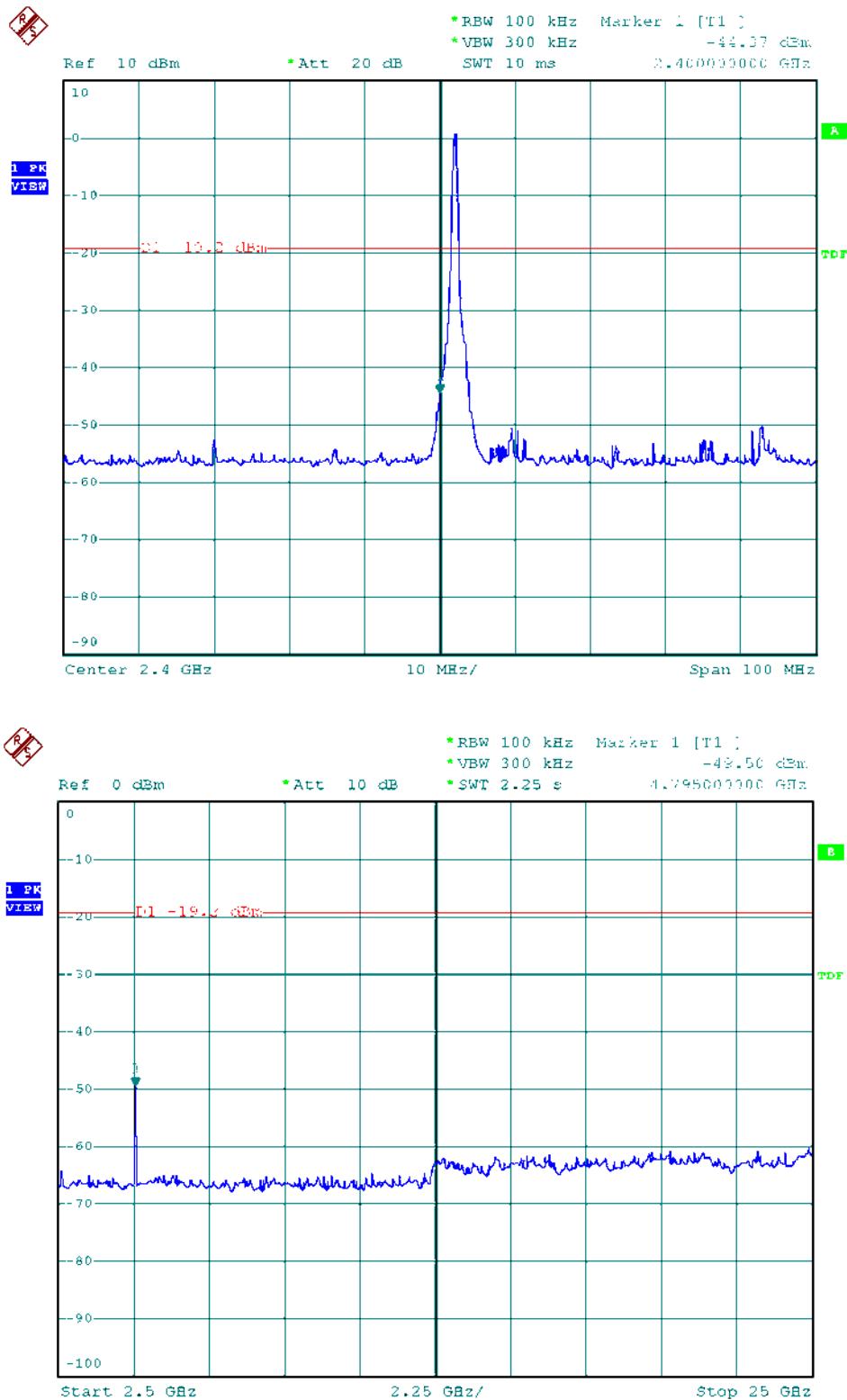
Atmospheric pressure: 1016 hPa

Humidity: 47 %

Modulation Type	Channel	Frequency	Max. Value in frequency(MHz)	Max. Value (dBm)
GFSK (1Mbps)	00	2402	2400.00	-44.37
	78	2480	4930.00	-50.23
$\pi/4$ -DQPSK (2Mbps)	00	2402	4795.00	-50.03
	78	2480	4930.00	-50.69
8DPSK (3Mbps)	00	2402	4795.00	-49.13
	78	2480	4930.00	-50.42



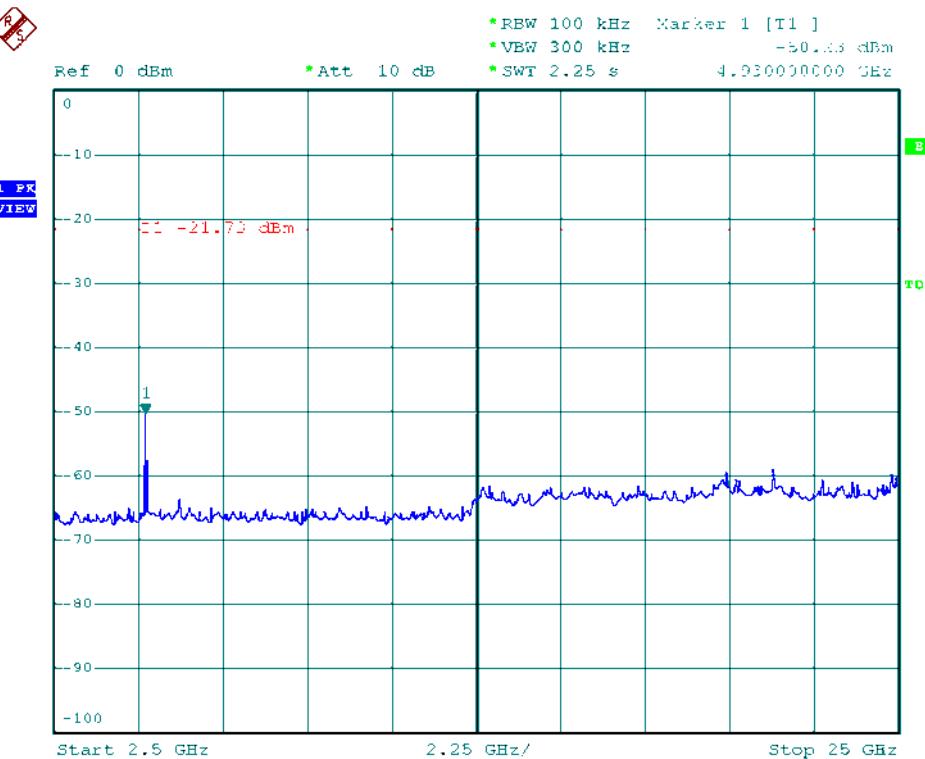
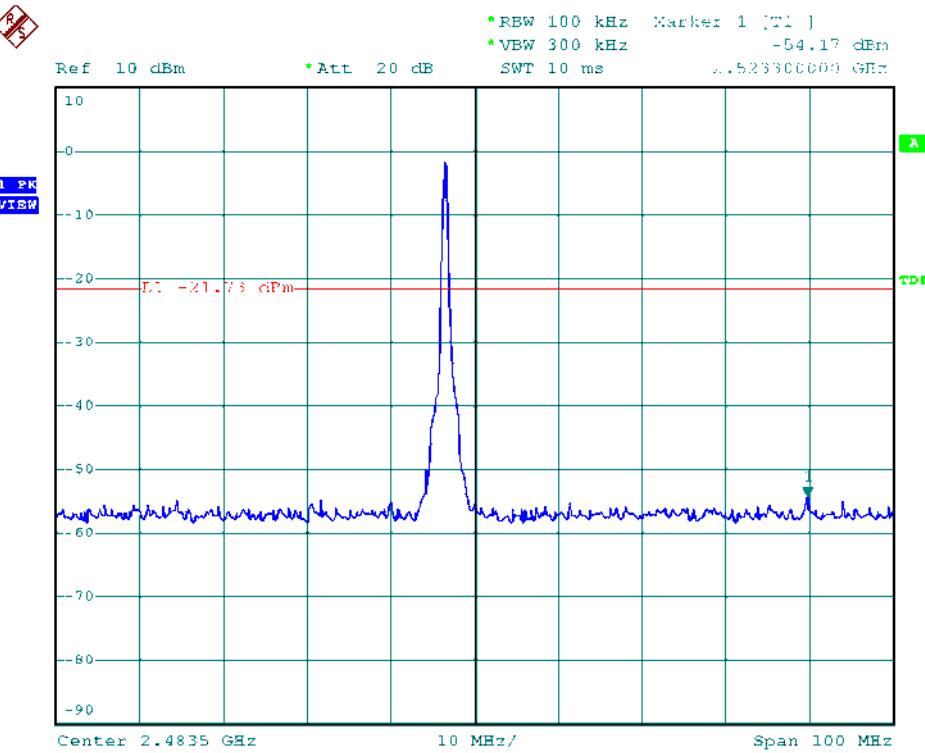
Modulation Standard: GFSK (1Mbps)
Channel: 00





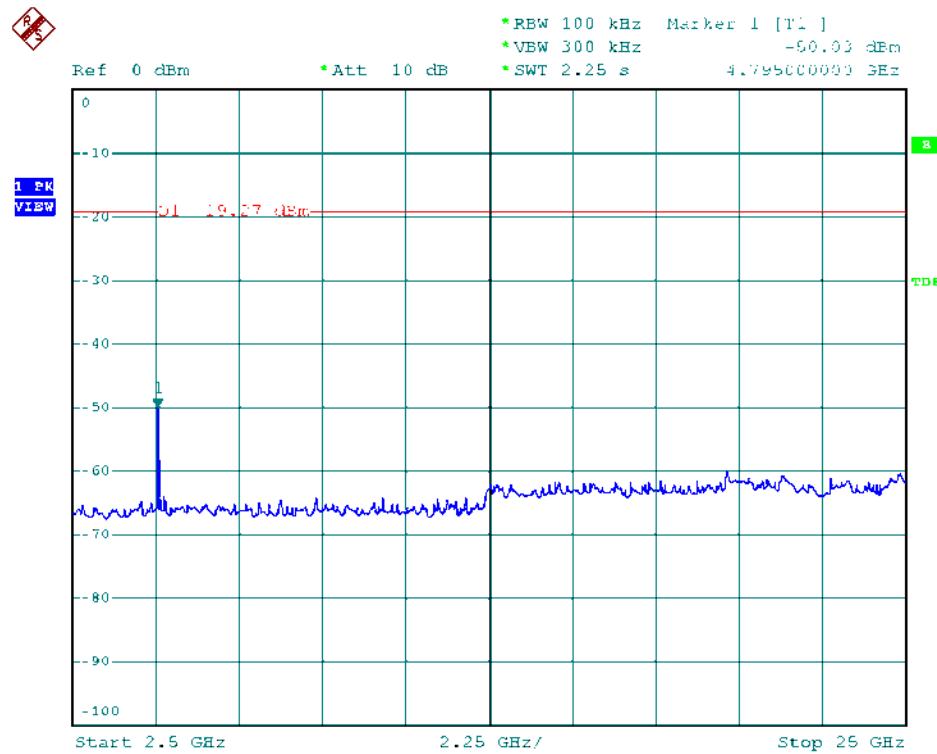
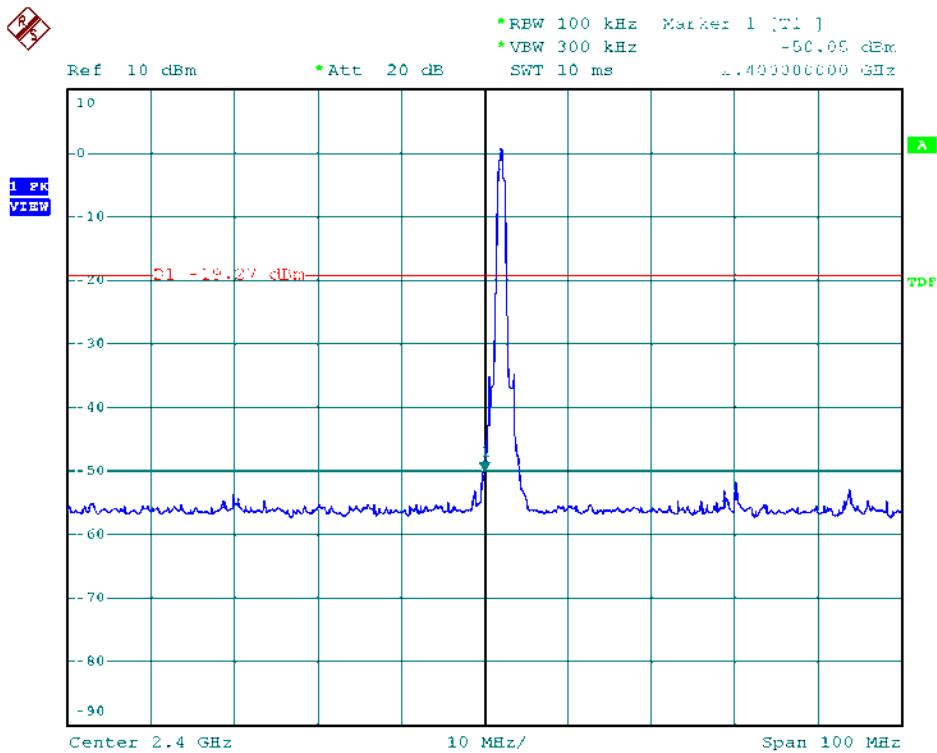
Modulation Standard: GFSK (1Mbps)

Channel: 78



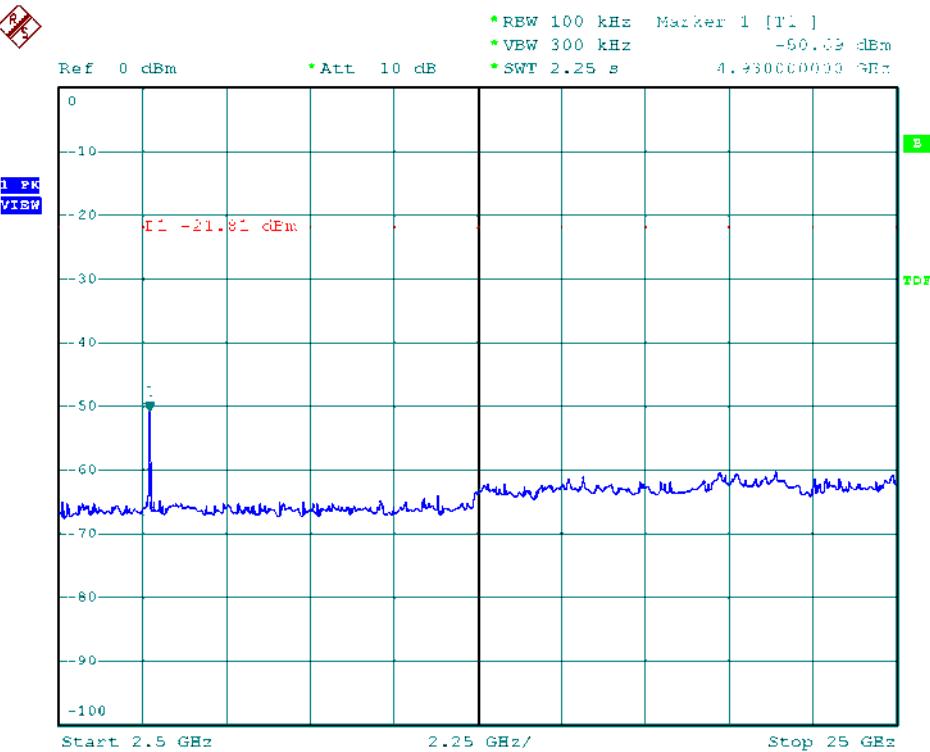
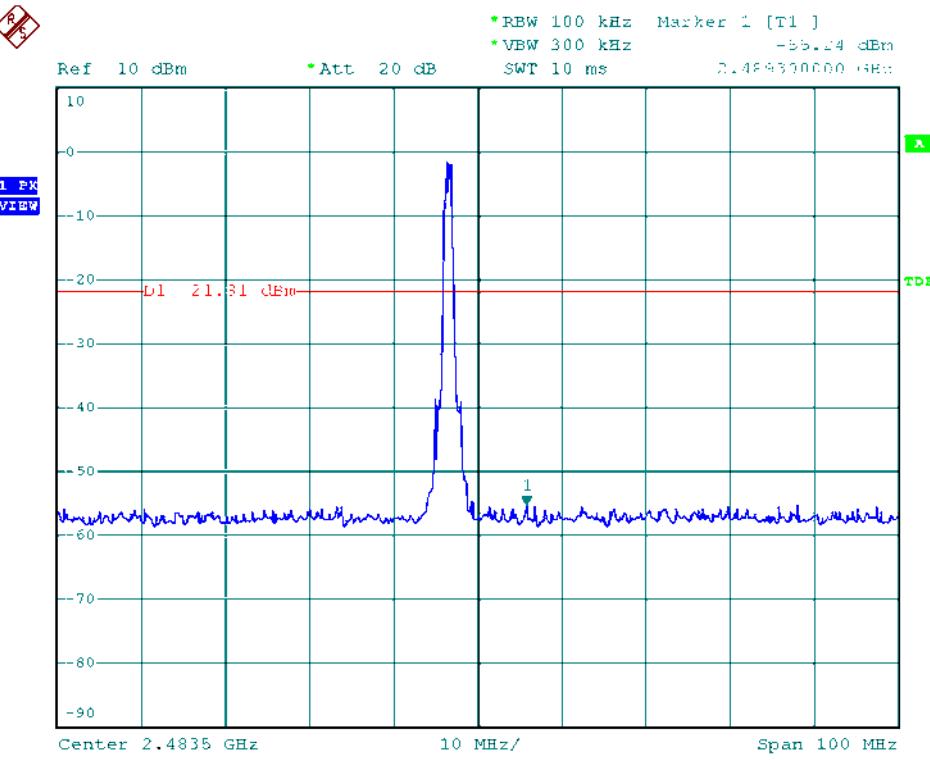
Modulation Standard: $\pi/4$ -DQPSK (2Mbps)

Channel: 00



Modulation Standard: $\pi/4$ -DQPSK (2Mbps)

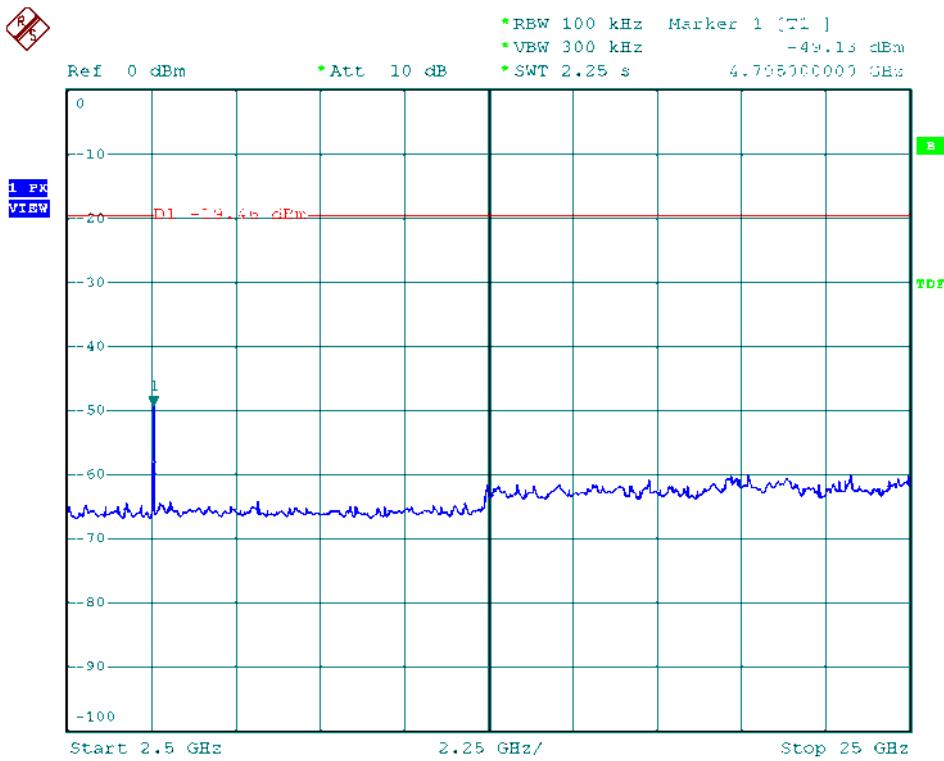
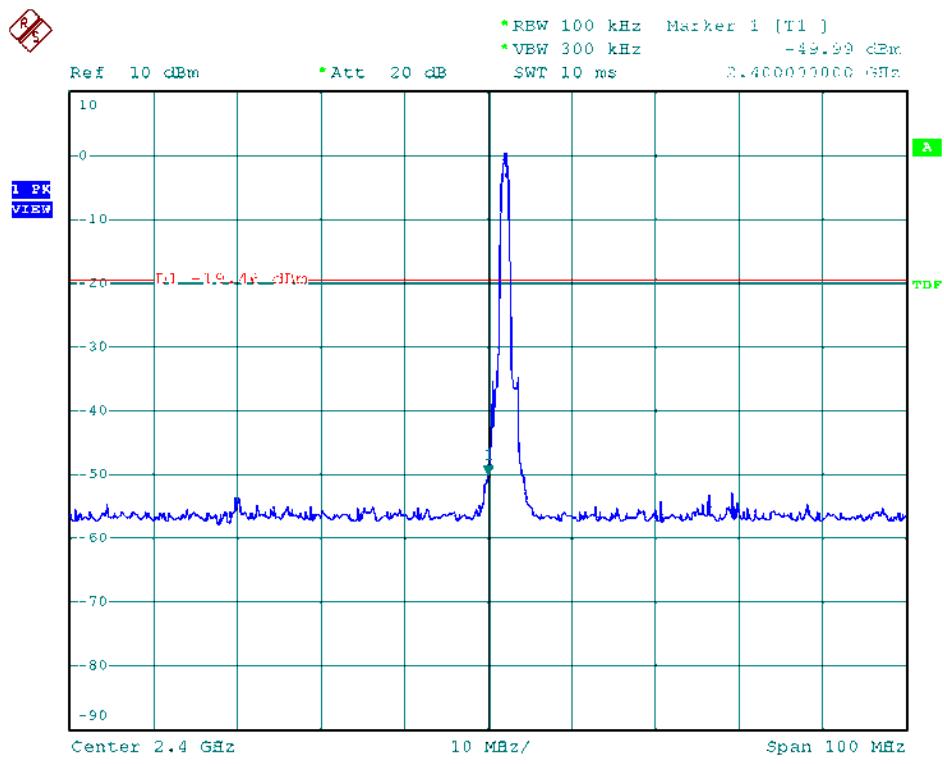
Channel: 78





Modulation Standard: 8DPSK (3Mbps)

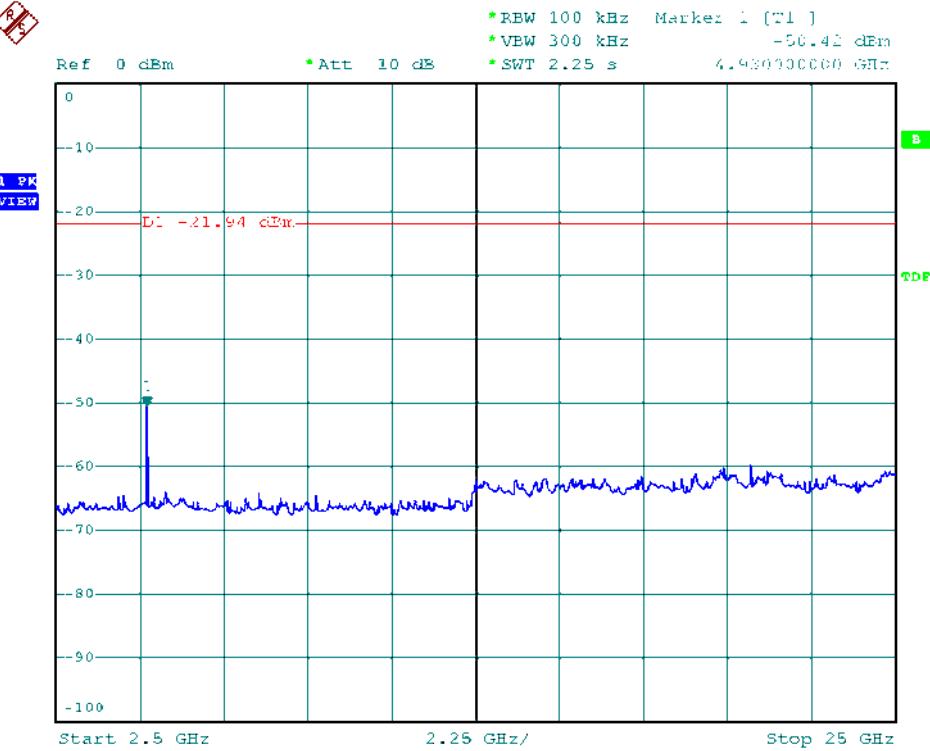
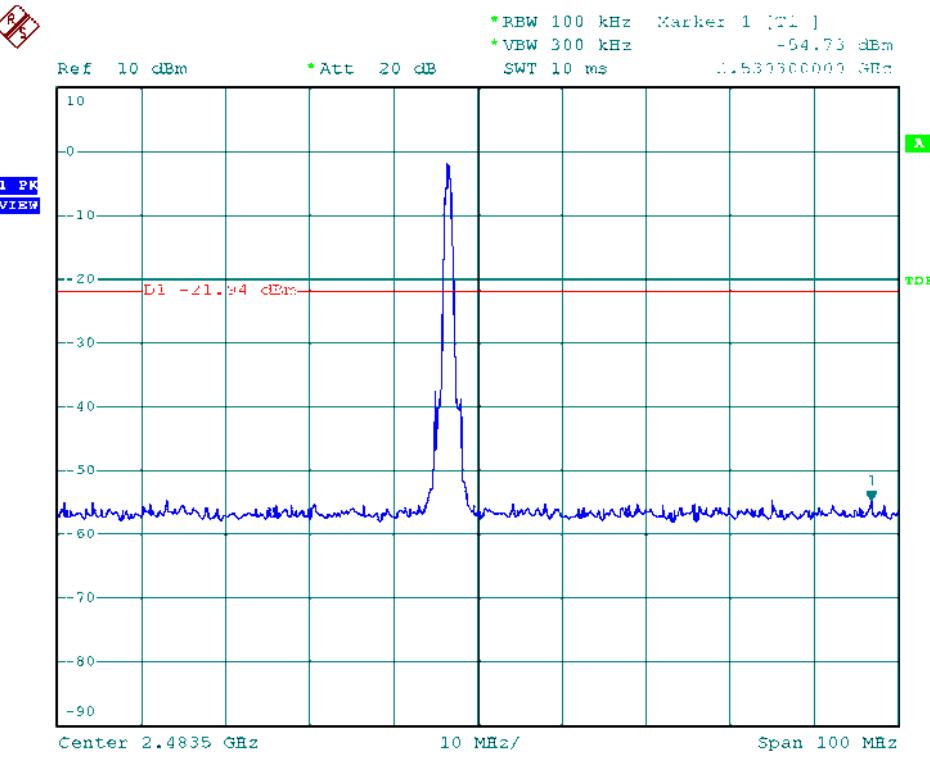
Channel: 00





Modulation Standard: 8DPSK (3Mbps)

Channel: 78





11.6 Restrict band emission Measurement Data

Test Date: Oct. 22, 2013

Temperature: 25 °C

Atmospheric pressure: 1020 hPa

Humidity: 50 %

Modulation Standard: GFSK (1Mbps)

Channel 0							Fundamental Frequency: 2402 MHz			
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2320.70	H	49.74	2.20	51.94	Peak	74	54	-22.06	151	1.00
---	H	---	---	---	Ave	74	54	---	---	---
2319.30	V	49.31	3.71	53.02	Peak	74	54	-20.98	155	1.00
---	V	---	---	---	Ave	74	54	---	---	---
Channel 78							Fundamental Frequency: 2480 MHz			
2483.16	H	50.32	0.60	50.92	Peak	74	54	-23.08	145	1.00
---	H	---	---	---	Ave	74	54	---	---	---
2494.79	V	52.81	-2.65	50.16	Peak	74	54	-23.84	155	1.00
---	V	---	---	---	Ave	74	54	---	---	---

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz



Test Date: Oct. 22, 2013

Temperature: 25 °C

Atmospheric pressure: 1020 hPa

Humidity: 50 %

Modulation Standard: $\pi/4$ -DQPSK (2Mbps)

Channel 0							Fundamental Frequency: 2402 MHz			
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2324.69	H	49.86	2.18	52.04	Peak	74	54	-21.96	146	1.00
---	H	---	---	---	Ave	74	54	---	---	---
2333.25	V	49.55	3.49	53.04	Peak	74	54	-20.96	158	1.00
---	V	---	---	---	Ave	74	54	---	---	---
Channel 78							Fundamental Frequency: 2480 MHz			
2494.65	H	50.09	0.43	50.52	Peak	74	54	-23.48	149	1.00
---	H	---	---	---	Ave	74	54	---	---	---
2489.88	V	52.44	-2.38	50.06	Peak	74	54	-23.94	156	1.00
---	V	---	---	---	Ave	74	54	---	---	---

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz



Test Date: Oct. 22, 2013
 Atmospheric pressure: 1020 hPa
 Modulation Standard: 8DPSK (3Mbps)

Temperature: 25 °C
 Humidity: 50 %

Channel 0							Fundamental Frequency: 2402 MHz			
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2324.42	H	49.15	2.18	51.33	Peak	74	54	-22.67	150	1.00
---	H	---	---	---	Ave	74	54	---	---	---
2333.44	V	49.35	3.48	52.83	Peak	74	54	-21.17	158	1.00
---	V	---	---	---	Ave	74	54	---	---	---
Channel 78							Fundamental Frequency: 2480 MHz			
2491.15	H	49.82	0.48	50.30	Peak	74	54	-23.70	146	1.00
---	H	---	---	---	Ave	74	54	---	---	---
2491.50	V	52.09	-2.47	49.62	Peak	74	54	-24.38	157	1.00
---	V	---	---	---	Ave	74	54	---	---	---

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz



12. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

**: Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

12.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.