FCC REPORT

(Bluetooth)

Applicant:	SHENZHEN NEW SKY TECHNOLOGY CO., LTD
Address of Applicant:	3f B building, DaHong technology park, BaiHua 1st industrial park, GuangMin area ,ShenZhen city, GuangDong province, China

Equipment Under Test (EUT)

Product Name:	USB Bluetooth Adapter
Model No.:	PBT06H, BT-06A
FCC ID:	2AIW7PBT06H
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	09 May, 2016
Date of Test:	09 May, to 27 Jun., 2016
Date of report issued:	28 Jun., 2016
Test Result:	PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Bruce Zhang
Laboratory Manager

2 Version

Version No.	Date	Description
00	*28 Jun., 2016*	*Original*

Tested by: YT Yang ***Date:*** *28 Jun., 2016*

Test Engineer

Reviewed by: Carey Chen ***Date:*** *28 Jun., 2016*

Project Engineer

3 Contents

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1)	Pass
Dwell Time	15.247 (a)(1)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

Pass: The EUT complies with the essential requirements in the standard.

Measurement Uncertainty:

Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

5 General Information

5.1 Client Information

Applicant:	SHENZHEN NEW SKY TECHNOLOGY CO., LTD
Address of Applicant:	3f B building, DaHong technology park, BaiHua 1st industrial park, GuangMin area, ShenZhen city, GuangDong province, China
Manufacturer/Factory:	SHENZHEN NEW SKY TECHNOLOGY CO., LTD
Address of Manufacturer/Factory:	3f B building, DaHong technology park, BaiHua 1st industrial park, GuangMin area, ShenZhen city, GuangDong province, China

5.2 General Description of E.U.T.

Product Name:	USB Bluetooth Adapter
Model No.:	PBT06H, BT-06A
Operation Frequency:	2402MHz~2480MHz
Transfer rate:	1/2/3 Mbits/s
Number of channel:	79
Modulation type:	GFSK, π/4-DQPSK, 8DPSK
Modulation technology:	FHSS
Antenna Type:	PCB Antenna
Antenna gain:	1dBi
Power supply:	DC 5V
Remark:	The No.: PBT06H, BT-06A were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.

Operation Frequency each of channel for GFSK, π/4-DQPSK, 8DPSK							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		
Remark: Channel 0, 39 &78 selected for GFSK, π/4-DQPSK and 8DPSK.							

5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with worst case data rate.
Remark	GFSK (1 Mbps) is the worst case mode.

The sample was placed 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working with a fresh battery, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC

5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

●FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered andfullydescribedin a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

●IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755-23118282
Fax: +86-755-23116366

5.7 Test Instruments list

Radiated Emission:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (mm-dd-yy)**	**Cal. Due date (mm-dd-yy)**
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-25-2016	03-25-2017
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-25-2016	03-25-2017
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2016	03-31-2017
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2016	03-31-2017
6	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2016	03-31-2017
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2016	03-31-2017
8	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-28-2016	03-28-2017
9	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2016	03-28-2017
10	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2016	03-31-2017
11	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

Conducted Emission:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (mm-dd-yy)**	**Cal. Due date (mm-dd-yy)**
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	08-23-2014	08-22-2017
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-24-2016	03-24-2017
3	LISN	CHASE	MN2050D	CCIS0074	03-26-2016	03-26-2017
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2016	03-31-2017
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

6 Test results and Measurement Data

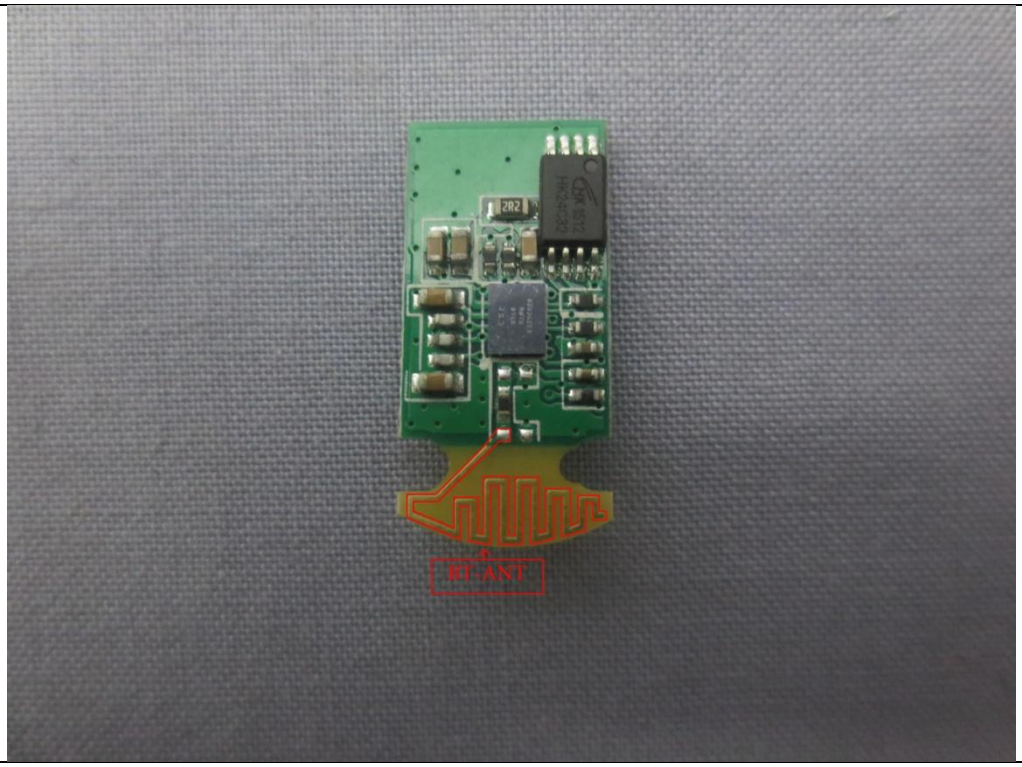
6.1 Antenna requirement

Standard requirement:	FCC Part 15 C Section 15.203 /247(c)

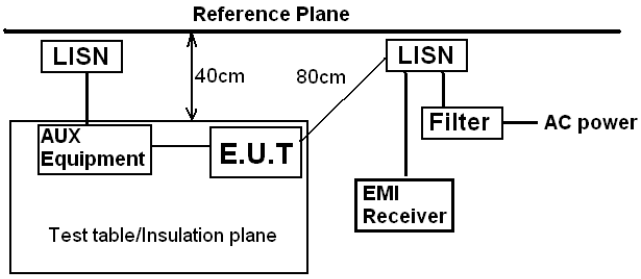
15.203 requirement:
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
15.247(c) (1)(i) requirement:
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:	

The Bluetooth antenna is an integral antenna which permanently attached, and the best case gain of the antenna is 1 dBi.

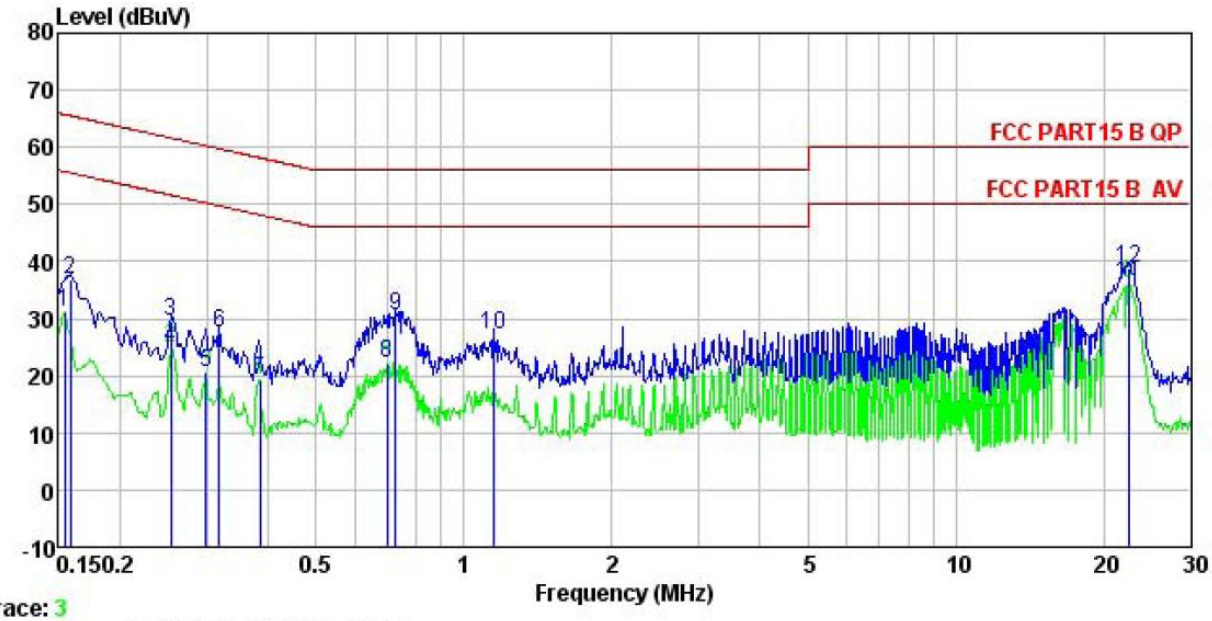


6.2 Conducted Emissions

Test Requirement:	FCC Part 15 C Section 15.207
Test Method:	ANSI C63.4: 2014
Test Frequency Range:	150kHz to 30MHz
Class / Severity:	Class B
Receiver setup:	RBW=9kHz, VBW=30kHz, Sweep time=auto
Limit:	Frequency range (MHz) / Limit (dBuV): Quasi-peak / Average 0.15-0.5: 66 to 56* / 56 to 46* 0.5-5: 56 / 46 5-30: 60 / 50 * Decreases with the logarithm of the frequency.
Test setup:	 *Remark:* *E.U.T: Equipment Under Test* *LISN: Line Impedence Stabilization Network* *Test table height=0.8m*
Test procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.
Test Instruments:	Refer to section 5.7 for details
Test mode:	Bluetooth (Continuous transmitting) mode
Test results:	Pass

Measurement Data

Line:



Trace: 3

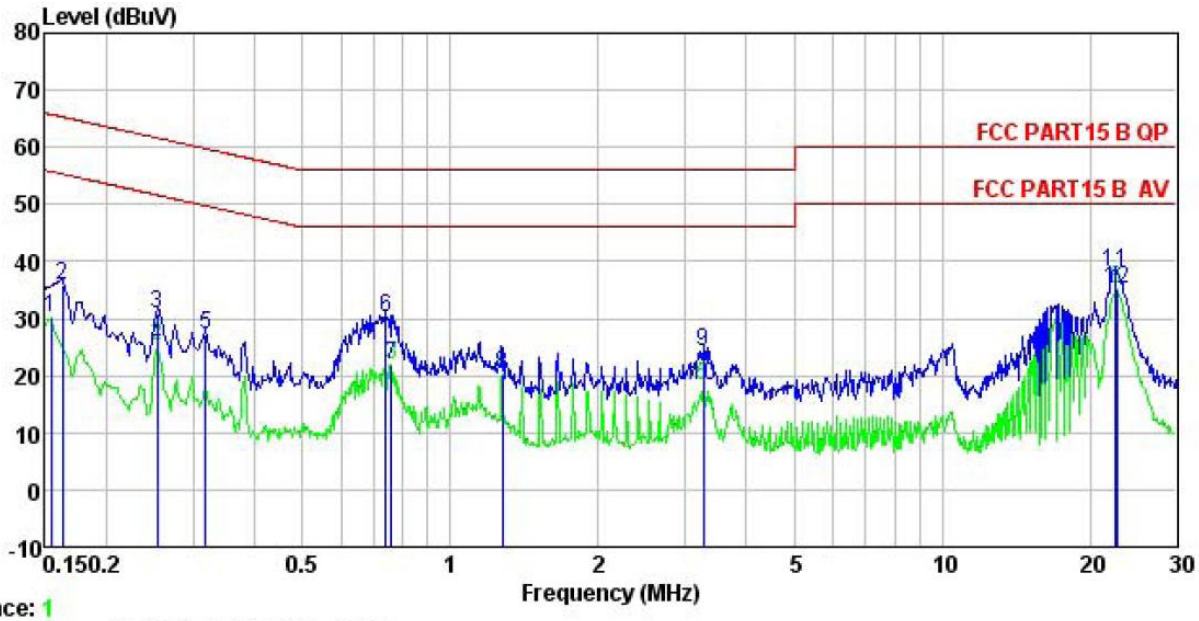
Site : CCIS Shielding Room
Condition : FCC PART15 B QP LISN LINE
EUT : USB Bluetooth Adapter
Model : PBT06H
Test Mode : BT mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 ℃ Huni:56% Atmos:101KPa
Test Engineer: YT
Remark :

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	20.29	0.14	10.78	31.21	55.78	-24.57	Average
2	0.158	25.91	0.14	10.78	36.83	65.56	-28.73	QP
3	0.253	18.59	0.16	10.75	29.50	61.64	-32.14	QP
4	0.253	14.12	0.16	10.75	25.03	51.64	-26.61	Average
5	0.299	9.76	0.16	10.74	20.66	50.28	-29.62	Average
6	0.318	16.54	0.18	10.74	27.46	59.75	-32.29	QP
7	0.385	8.35	0.23	10.72	19.30	48.17	-28.87	Average
8	0.697	11.26	0.32	10.77	22.35	46.00	-23.65	Average
9	0.727	19.43	0.31	10.78	30.52	56.00	-25.48	QP
10	1.147	15.96	0.27	10.89	27.12	56.00	-28.88	QP
11	22.416	24.96	0.35	10.90	36.21	50.00	-13.79	Average
12	22.535	27.70	0.35	10.89	38.94	60.00	-21.06	QP

Notes:

1. *An initial pre-scan was performed on the line and neutral lines with peak detector.*
2. *Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.*
3. *Final Level =Receiver Read level + LISN Factor + Cable Loss.*

Neutral:



Trace: 1

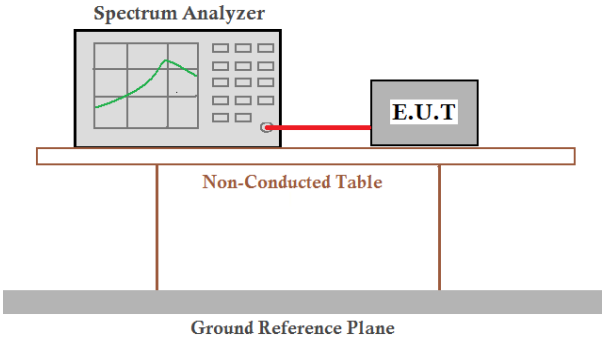
Site : CCIS Shielding Room
Condition : FCC PART15 B QP LISN NEUTRAL
EUT : USB Bluetooth Adapter
Model : PBT06H
Test Mode : BT mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 'C Huni:56% Atmos:101KPa
Test Engineer: YT
Remark :

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	19.29	0.12	10.78	30.19	55.78	-25.59	Average
2	0.162	25.05	0.13	10.77	35.95	65.34	-29.39	QP
3	0.253	20.00	0.17	10.75	30.92	61.64	-30.72	QP
4	0.253	14.15	0.17	10.75	25.07	51.64	-26.57	Average
5	0.318	16.20	0.20	10.74	27.14	59.75	-32.61	QP
6	0.739	19.10	0.32	10.79	30.21	56.00	-25.79	QP
7	0.759	10.90	0.31	10.80	22.01	46.00	-23.99	Average
8	1.276	9.11	0.26	10.90	20.27	46.00	-25.73	Average
9	3.276	12.84	0.32	10.91	24.07	56.00	-31.93	QP
10	3.276	7.13	0.32	10.91	18.36	46.00	-27.64	Average
11	22.535	26.85	0.25	10.89	37.99	60.00	-22.01	QP
12	22.655	23.94	0.25	10.89	35.08	50.00	-14.92	Average

Notes:

1. *An initial pre-scan was performed on the line and neutral lines with peak detector.*
2. *Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.*
3. *Final Level =Receiver Read level + LISN Factor + Cable Loss.*

6.3 Conducted Output Power

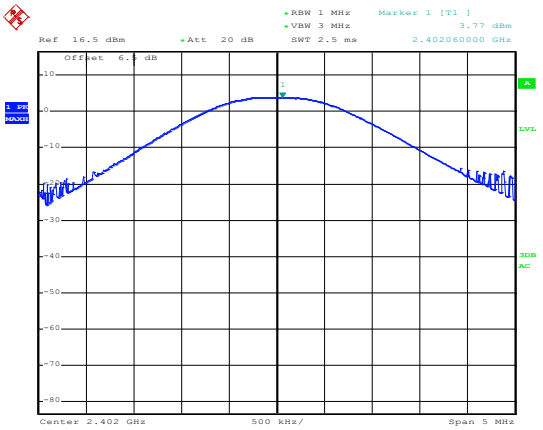
Test Requirement:	FCC Part 15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10: 2013 and DA00-705
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz) RBW=3MHz, VBW=10MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)
Limit:	125 mW(21 dBm)
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

Measurement Data:

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	3.77	21.00	Pass
Middle	3.95	21.00	Pass
Highest	3.90	21.00	Pass
π/4-DQPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	2.89	21.00	Pass
Middle	2.95	21.00	Pass
Highest	2.86	21.00	Pass
8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	2.83	21.00	Pass
Middle	2.98	21.00	Pass
Highest	2.95	21.00	Pass

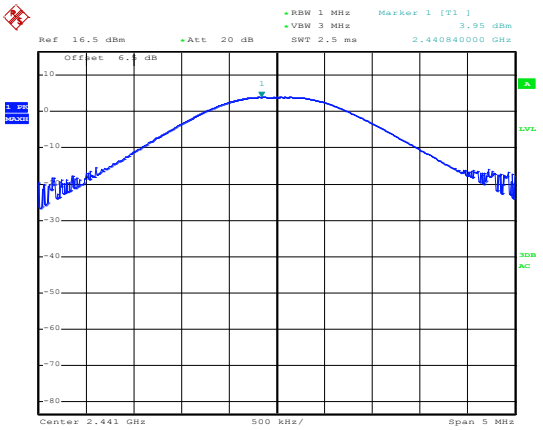
Test plot as follows:

Modulation mode:GFSK



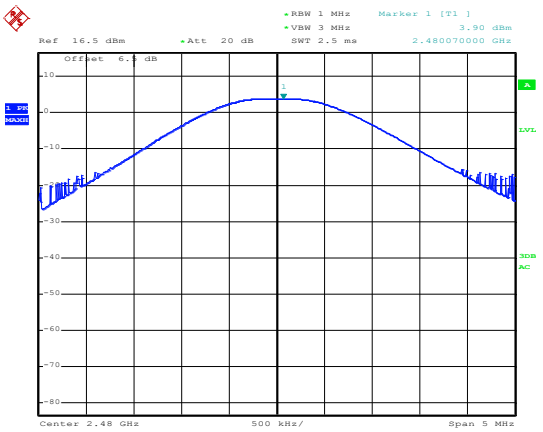
Date: 1.JUN.2016 17:39:53

Lowest channel



Date: 1.JUN.2016 17:40:44

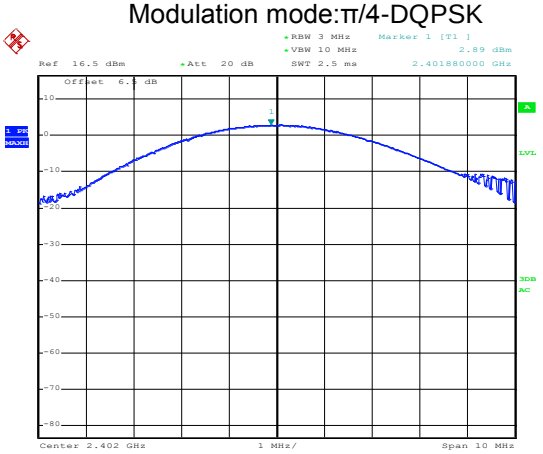
Middle channel



Date: 1.JUN.2016 17:41:58

Highest channel

Modulation mode:π/4-DQPSK



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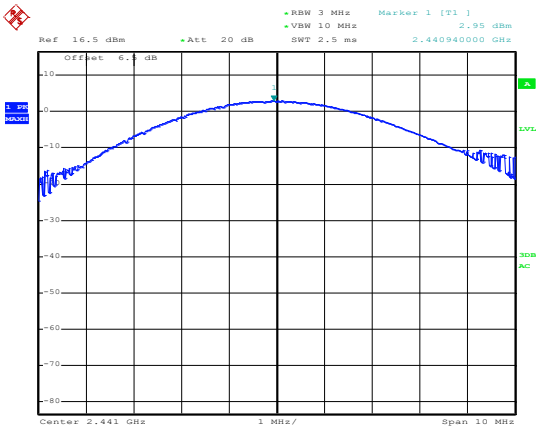
Lowest channel



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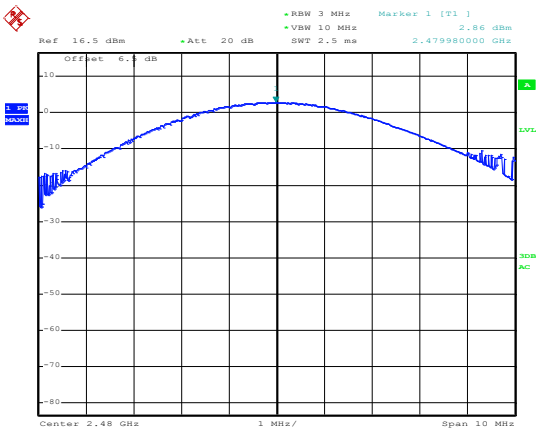
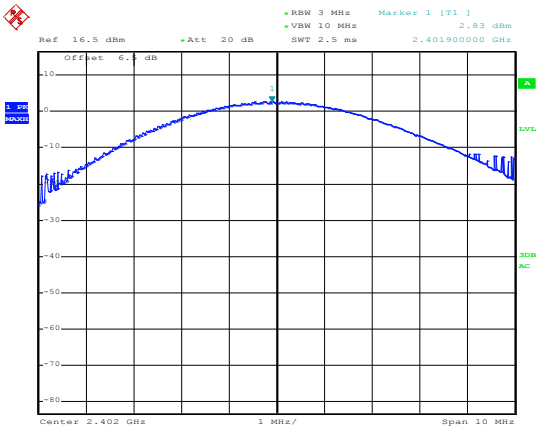
Middle channel



Date: 1.JUN.2016 17:35:44

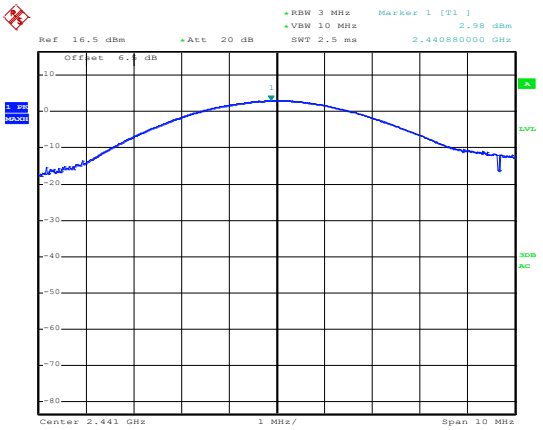
Highest channel

Modulation mode:8DPSK



Date: 1.JUN.2016 17:38:44

Lowest channel



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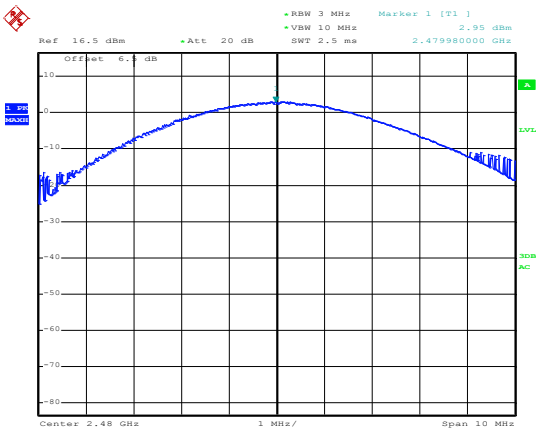
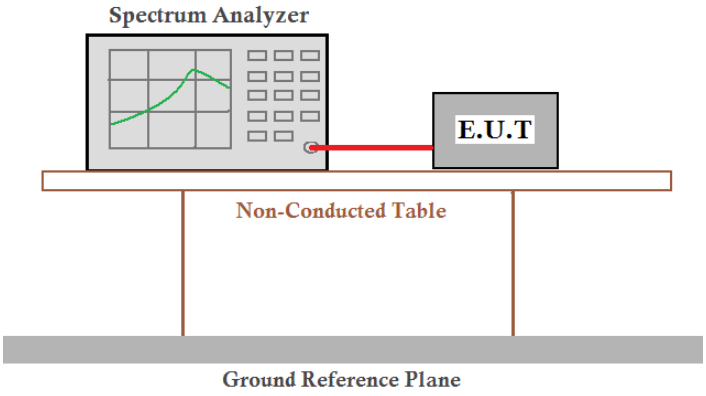
Middle channel



Date: 1.JUN.2016 17:36:31

Highest channel

6.4 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10: 2013 and DA00-705
Receiver setup:	RBW=30kHz, VBW=100kHz, detector=Peak
Limit:	NA
Test setup:	
Test Procedure:	1. Connect EUT antenna terminal to the spectrum analyzer with a low loss cable and use the following setting: Centre Frequency: The centre frequency of the channel under test Resolution BW: ~ 1 % of the span without going below 1 %RBW=1% of the Span, VBW=3×RBW Frequency Span: 2 × Occupied Channel Bandwidth (e.g. 40 MHz for a 20 MHz channel), Detector Mode: RMS, Trace Mode: Max Hold 2. Wait until the trace is completed. Find the peak value of the trace and place the analyser marker on this peak. 3. Use the N dB down function of the spectrum analyzer to measure the Emission Bandwidth of the UUT.This value shall be recorded.
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

Measurement Data:

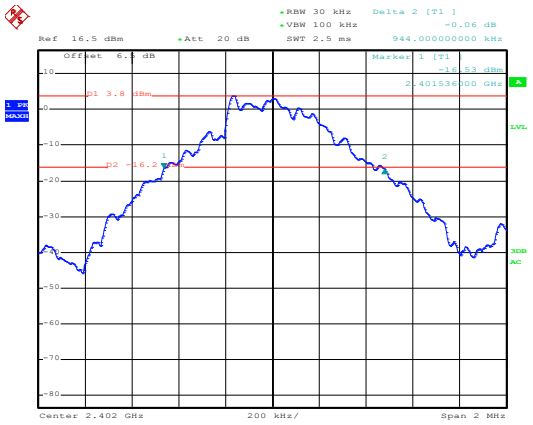
Test channel	20dB Occupy Bandwidth (kHz)		
	GFSK	π/4-DQPSK	8DPSK
Lowest	944	1276	1232
Middle	932	1244	1252
Highest	896	1240	1256

Test channel	99% Occupy Bandwidth (kHz)		
	GFSK	π/4-DQPSK	8DPSK
Lowest	960	1164	1188
Middle	954	1164	1188
Highest	954	1164	1188

Test plot as follows:

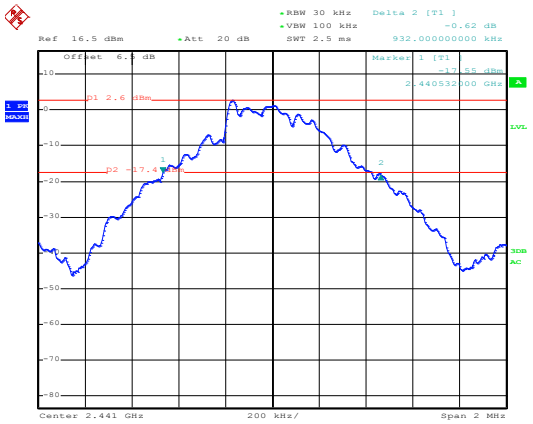
20dB OBW

Modulation mode:GFSK



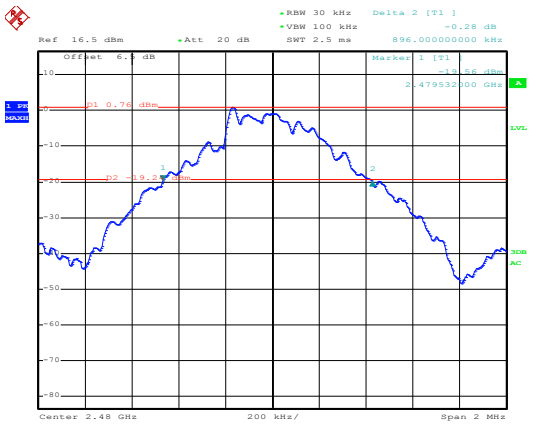
Date: 25.MAY.2016 22:10:35

Lowest channel



Date: 25.MAY.2016 22:12:01

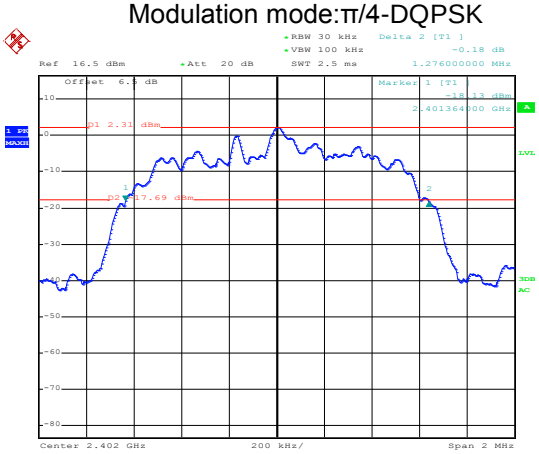
Middle channel



Date: 25.MAY.2016 22:12:59

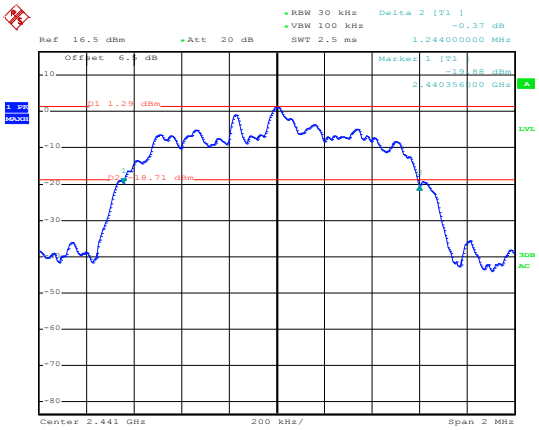
Highest channel

Modulation mode:π/4-DQPSK



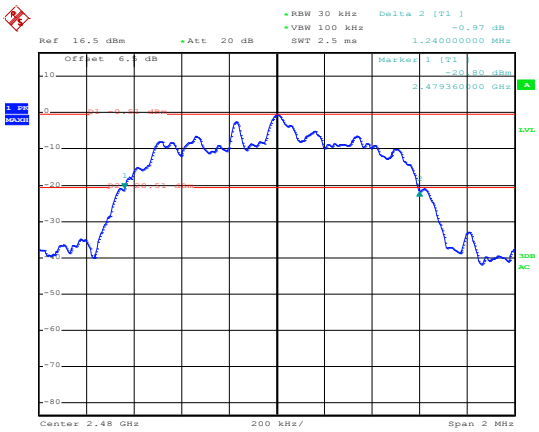
Date: 25.MAY.2016 22:14:20

Lowest channel



Date: 25.MAY.2016 22:15:54

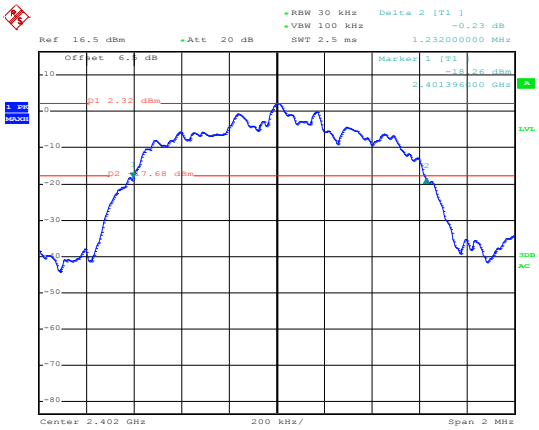
Middle channel



Date: 25.MAY.2016 22:17:16

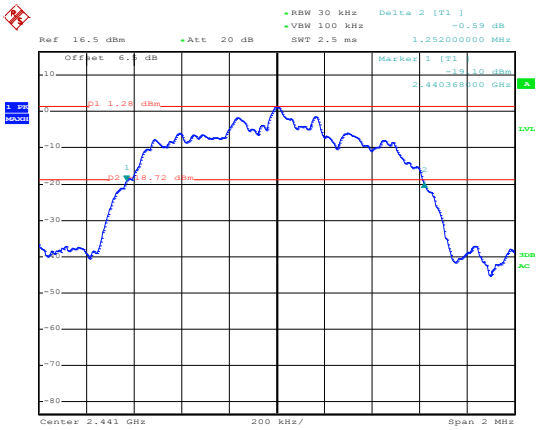
Highest channel

Modulation mode:8DPSK



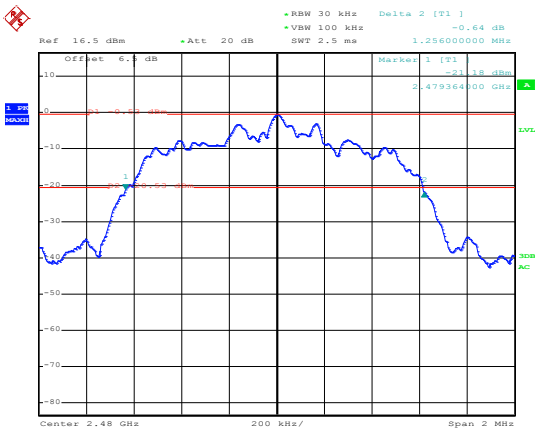
Date: 25.MAY.2016 22:18:22

Lowest channel



Date: 25.MAY.2016 22:19:44

Middle channel

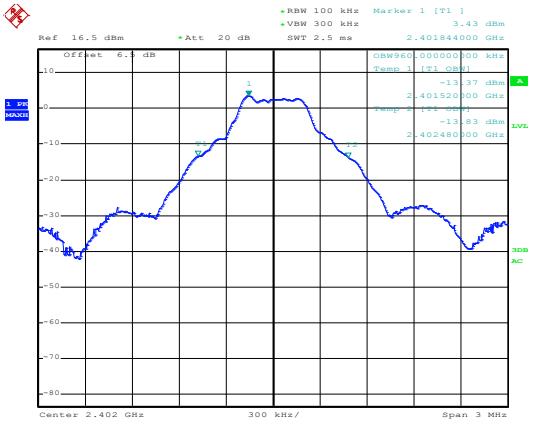


Date: 25.MAY.2016 22:21:23

Highest channel

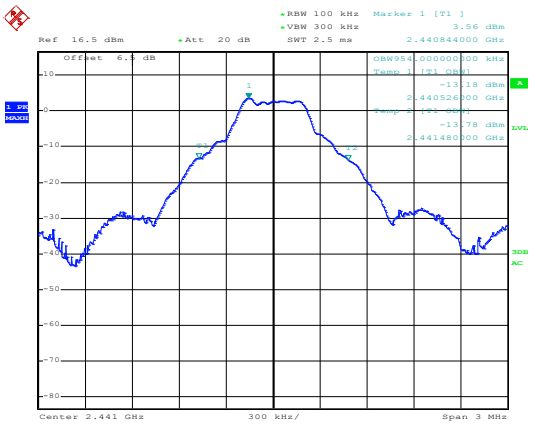
99% OBW

Modulation mode:GFSK



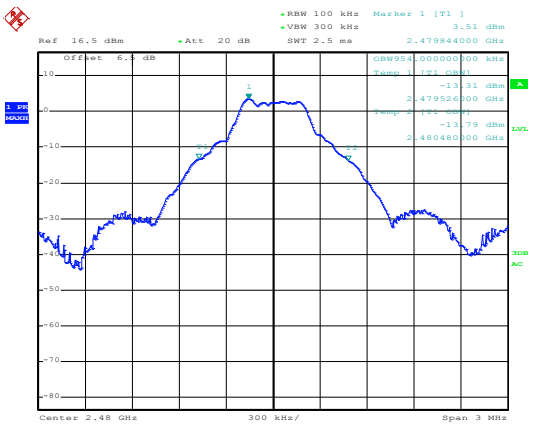
Date: 1.JUN.2016 17:48:22

Lowest channel



Date: 1.JUN.2016 17:49:08

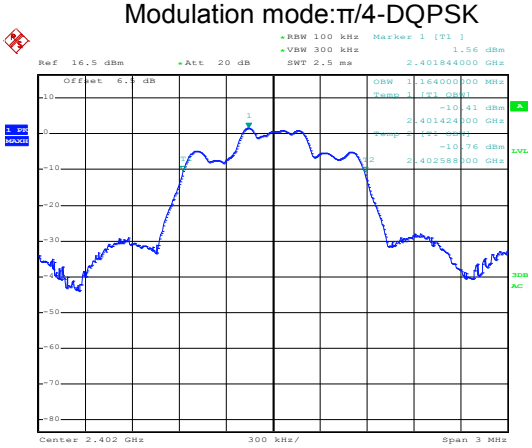
Middle channel



Date: 1.JUN.2016 17:50:26

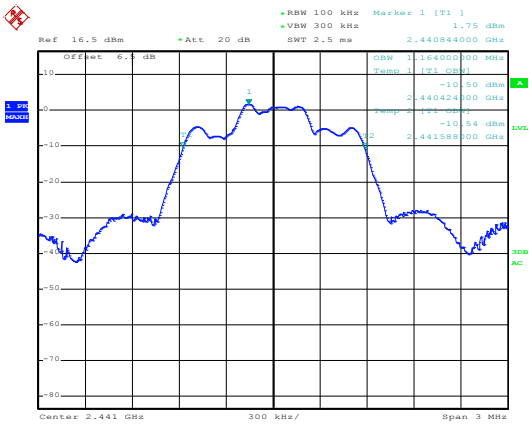
Highest channel

Modulation mode:π/4-DQPSK



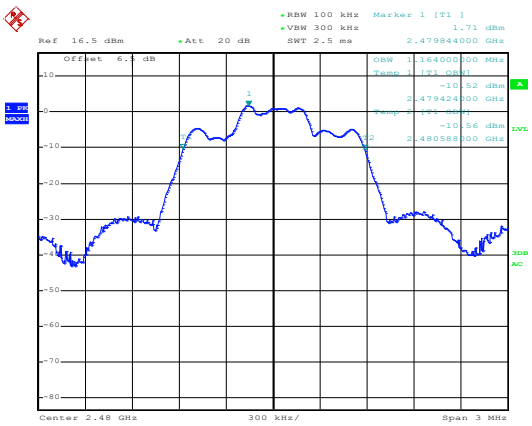
Date: 1.JUN.2016 17:55:09

Lowest channel



Date: 1.JUN.2016 17:53:53

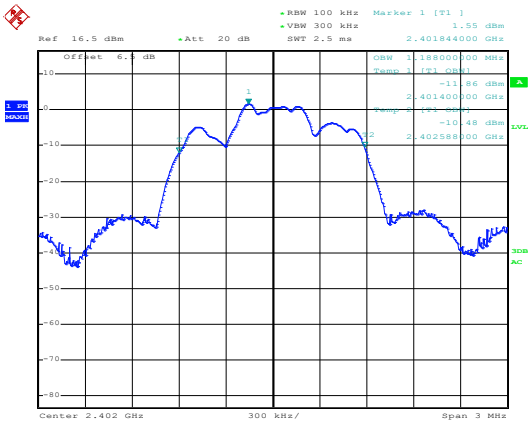
Middle channel



Date: 1.JUN.2016 17:51:30

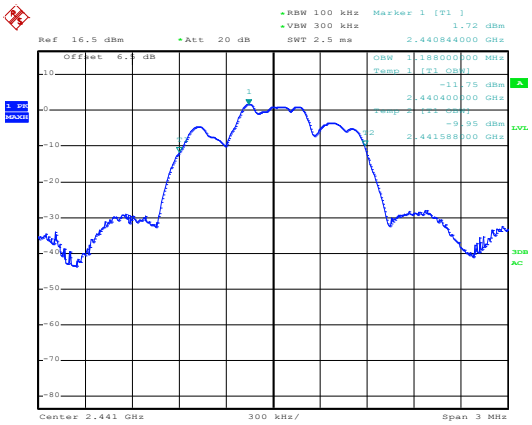
Highest channel

Modulation mode:8DPSK



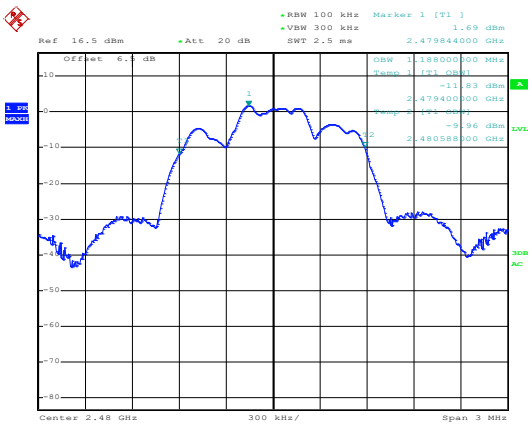
Date: 1.JUN.2016 17:56:22

Lowest channel



Date: 1.JUN.2016 17:57:50

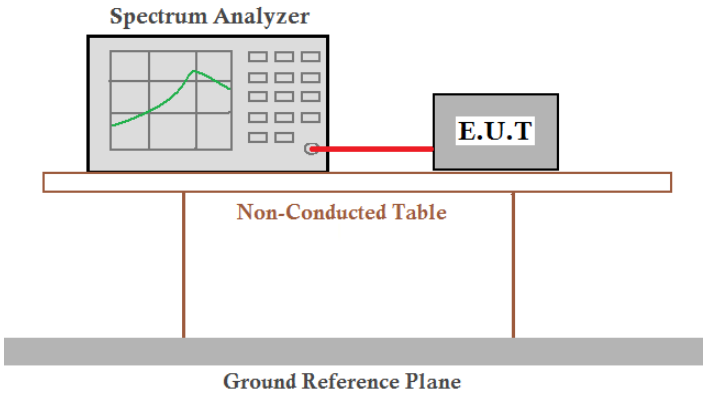
Middle channel



Date: 1.JUN.2016 17:59:14

Highest channel

6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10: 2013 and DA00-705
Receiver setup:	RBW=100kHz, VBW=300kHz, detector=Peak
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)
Test setup:	
Test Procedure:	1. Connect EUT antenna terminal to the spectrum analyzer with a low loss cable and use the following setting: Centre Frequency: The centre between two channels, RBW = 100kHz: VBW=3×RBW Frequency Span: 2 ×Bandwidth, Detector Mode: Peak, Trace Mode: Max Hold 2. Wait until the trace is completed. Find the peak value of each envelope and place the analyzer marker on this peak. 3. Repeat above steps for low, middle, high channels and each mode respectively.
Test Instruments:	Refer to section 5.7 for details
Test mode:	Hopping mode
Test results:	Pass

Measurement Data:

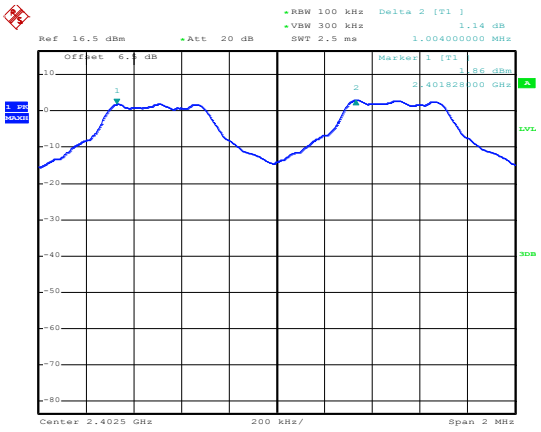
GFSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1004	629.33	Pass
Middle	1000	629.33	Pass
Highest	1000	629.33	Pass
π/4-DQPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1000	850.67	Pass
Middle	1004	850.67	Pass
Highest	1004	850.67	Pass
8DPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1004	837.33	Pass
Middle	1004	837.33	Pass
Highest	1004	837.33	Pass

Note: According to section 6.4

Mode	*20dB bandwidth (kHz) (worse case)*	*Limit (kHz) (Carrier Frequencies Separation)*
GFSK	*944*	*629.33*
π/4-DQPSK	*1276*	*850.67*
8DPSK	*1256*	*837.33*

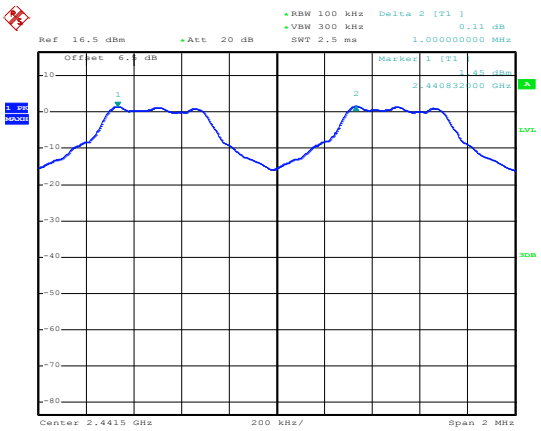
Test plot as follows:

Modulation mode:GFSK



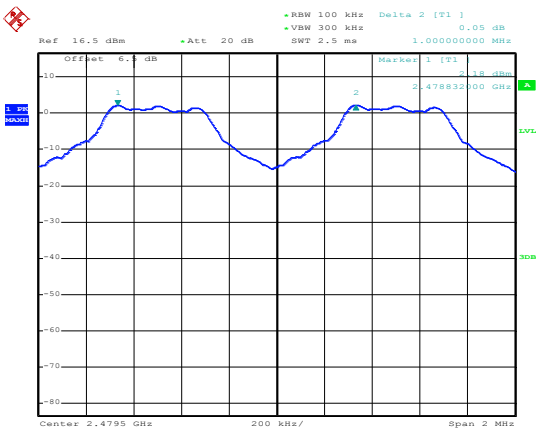
Date: 25.MAY.2016 23:18:05

Lowest channel



Date: 25.MAY.2016 23:19:11

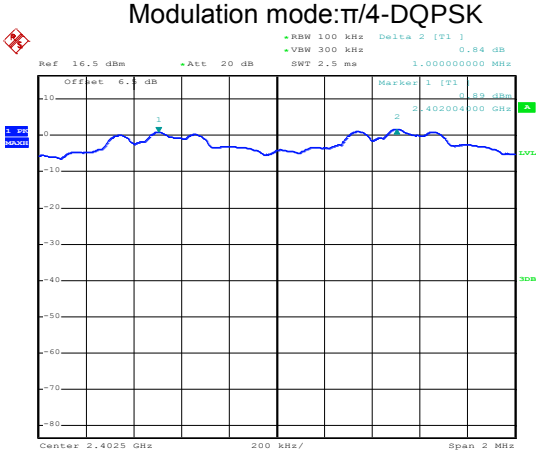
Middle channel



Date: 25.MAY.2016 23:20:08

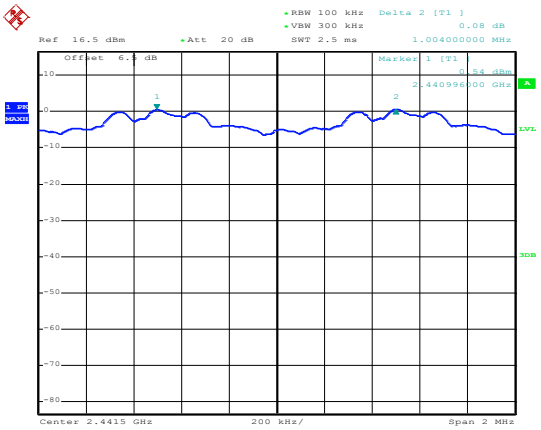
Highest channel

Modulation mode:π/4-DQPSK



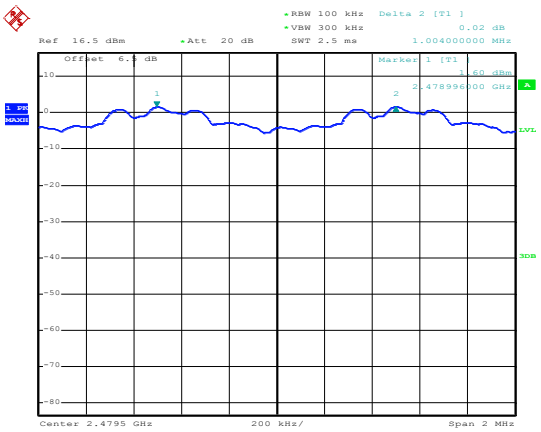
Date: 25.MAY.2016 23:21:46

Lowest channel



Date: 25.MAY.2016 23:22:46

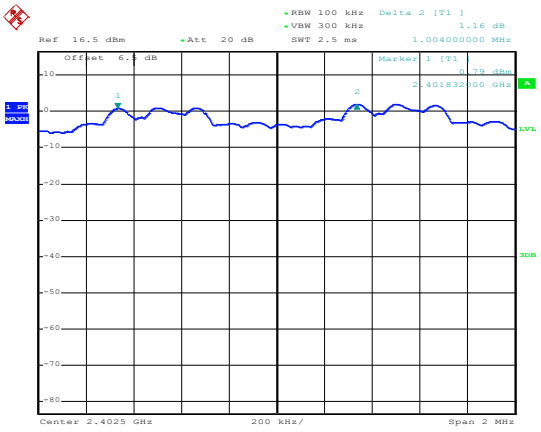
Middle channel



Date: 25.MAY.2016 23:24:14

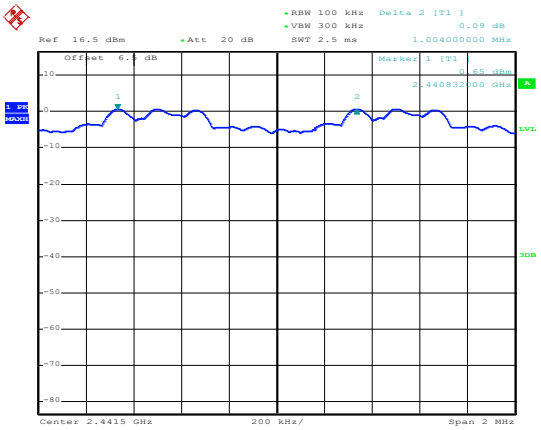
Highest channel

Modulation mode:8DPSK



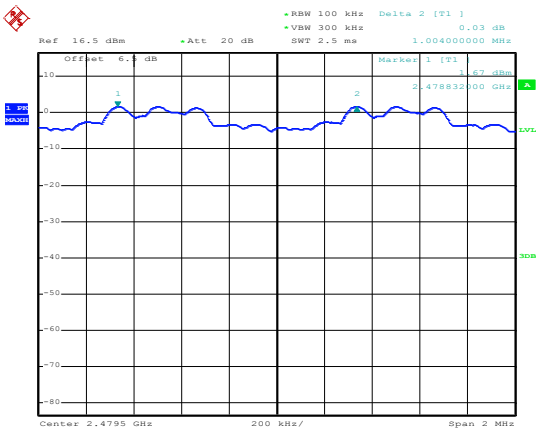
Date: 25.MAY.2016 23:28:14

Lowest channel



Date: 25.MAY.2016 23:29:02

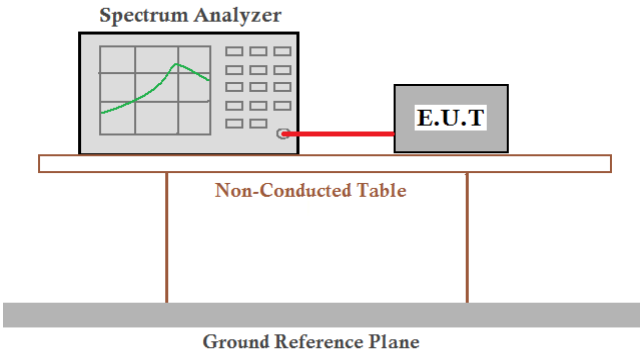
Middle channel



Date: 25.MAY.2016 23:29:53

Highest channel

6.6 Hopping Channel Number

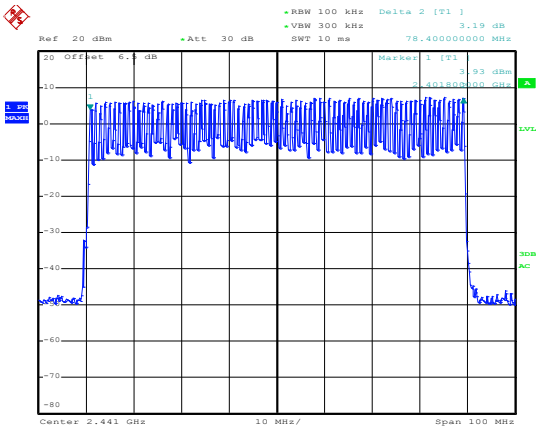
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10: 2013 and DA00-705
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Hopping mode
Test results:	Pass

Measurement Data:

Mode	Hopping channel numbers	Limit	Result
GFSK, π/4-DQPSK, 8DPSK	79	15	Pass

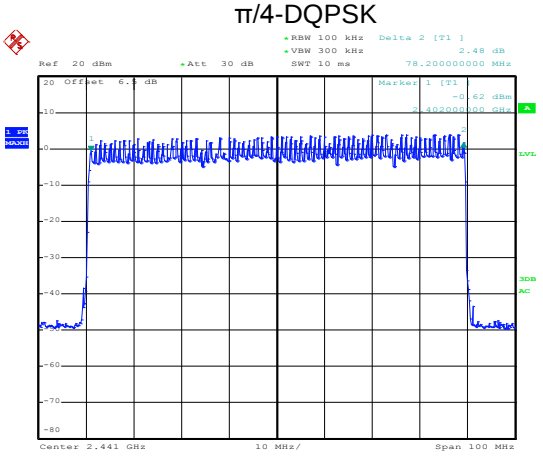
Test plot as follows:

GFSK



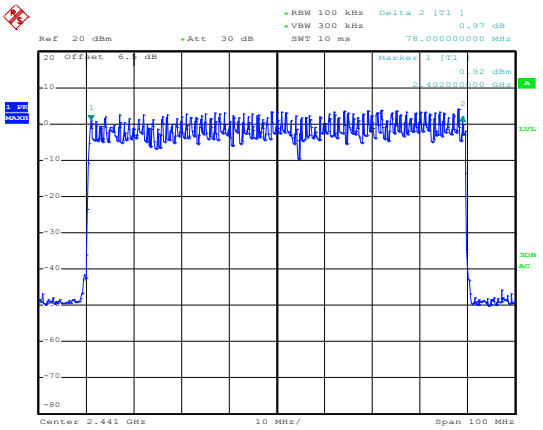
Date: 12.MAY.2016 21:25:49

π/4-DQPSK



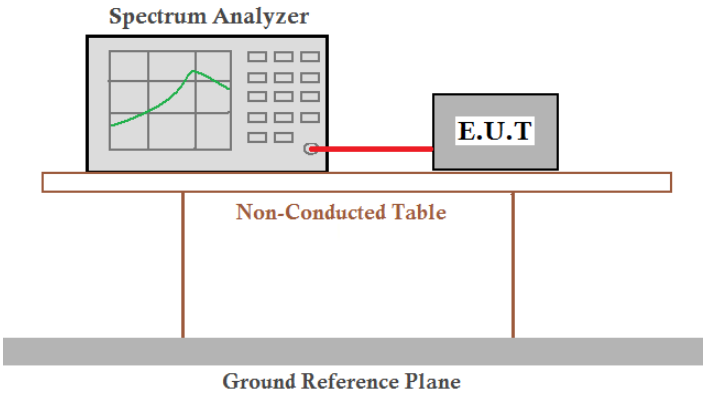
Date: 12.MAY.2016 21:29:38

8DPSK



Date: 12.MAY.2016 21:31:17

6.7 Dwell Time

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10: 2013 and KDB DA00-705
Receiver setup:	RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak
Limit:	0.4 Second
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Hopping mode
Test results:	Pass

Measurement Data (Worse case):

Mode	Packet	Dwell time (second)	Limit (second)	Result
GFSK	DH1	0.14016	0.4	Pass
	DH3	0.27168		
	DH5	0.31403		
π/4-DQPSK	2-DH1	0.13888	0.4	Pass
	2-DH3	0.27456		
	2-DH5	0.31659		
8DPSK	3-DH1	0.14016	0.4	Pass
	3-DH3	0.27360		
	3-DH5	0.31744		

For GFSK, π/4-DQPSK and 8DPSK:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

DH1 time slot=0.438*(1600/ (2*79))*31.6=140.16ms

DH3 time slot=1.698*(1600/ (4*79))*31.6=271.68ms

DH5 time slot=2.944*(1600/ (6*79))*31.6=314.03ms

2-DH1 time slot=0.434*(1600/ (2*79))*31.6=138.88ms

2-DH3 time slot=1.716*(1600/ (4*79))*31.6=274.56ms

2-DH5 time slot=2.968*(1600/ (6*79))*31.6=316.59ms

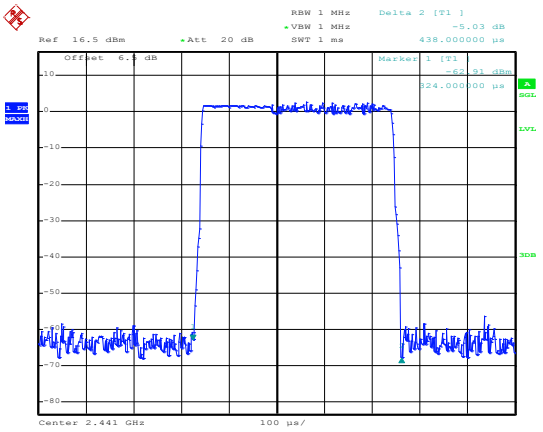
3-DH1 time slot=0.438*(1600/ (2*79))*31.6=140.16ms

3-DH3 time slot=1.710*(1600/ (4*79))*31.6=273.60ms

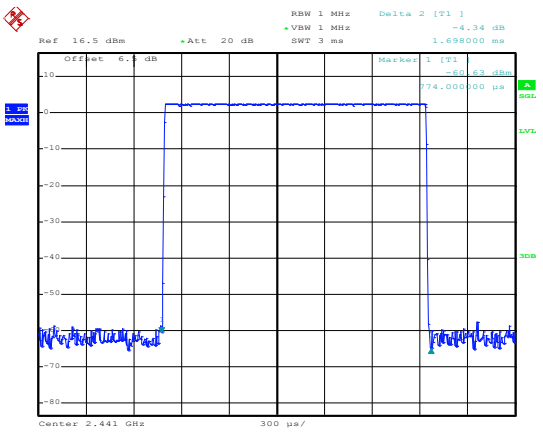
3-DH5 time slot=2.976*(1600/ (6*79))*31.6=317.44ms

Test plot as follows:

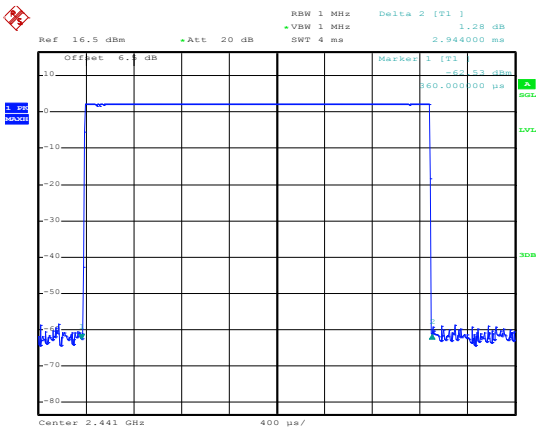
Modulation mode:GFSK



DH1

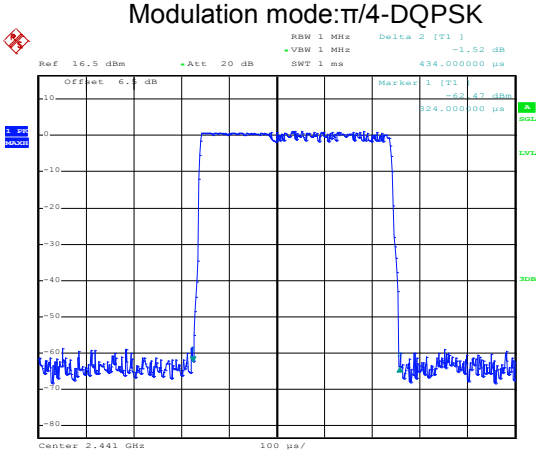


DH3

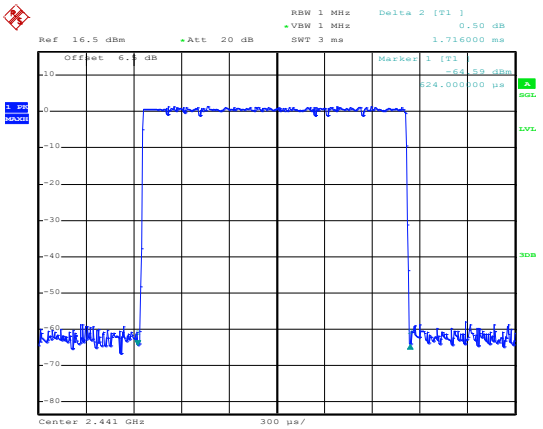


DH5

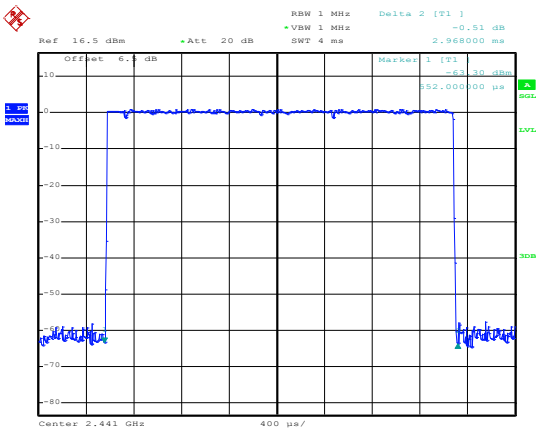
Modulation mode:π/4-DQPSK



2-DH1

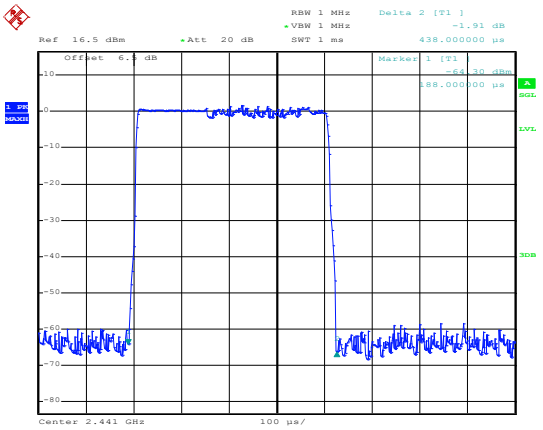


2-DH3



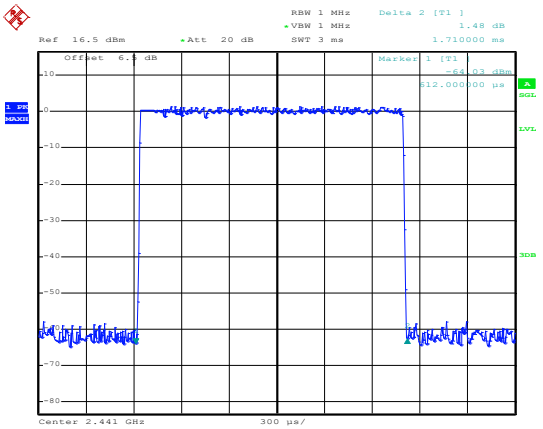
2-DH5

Modulation mode:8DPSK



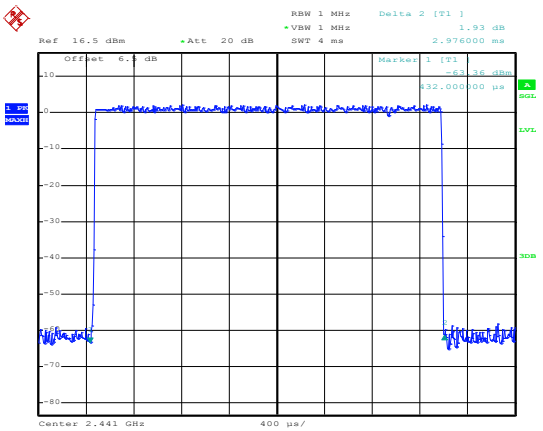
Date: 25.MAY.2016 23:37:26

3-DH1



Date: 25.MAY.2016 23:38:06

3-DH3



Date: 25.MAY.2016 23:38:55

3-DH5

6.8 Pseudorandom Frequency Hopping Sequence

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1) requirement:

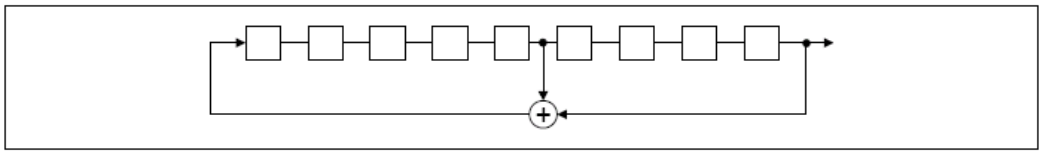
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

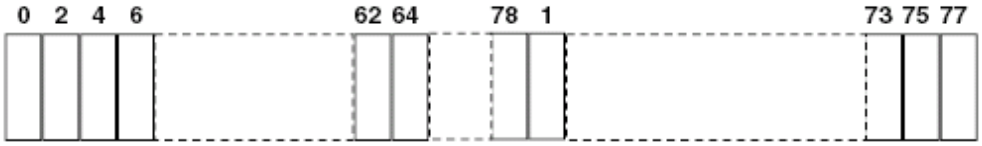
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- *Number of shift register stages: 9*
- *Length of pseudo-random sequence: 2^9 -1 = 511 bits*
- *Longest sequence of zeros: 8 (non-inverted signal)*



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

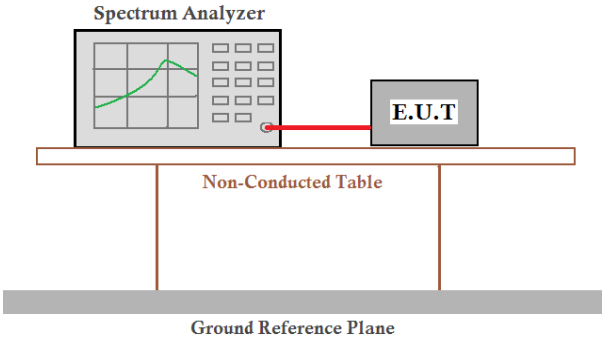


Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

6.9 Band Edge

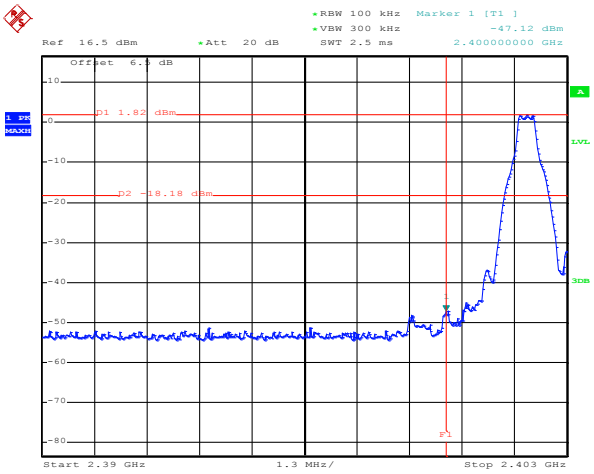
6.9.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 and DA00-705
Receiver setup:	RBW=100kHz, VBW=300kHz, Detector=Peak
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode and hopping mode
Test results:	Pass

Test plot as follows:

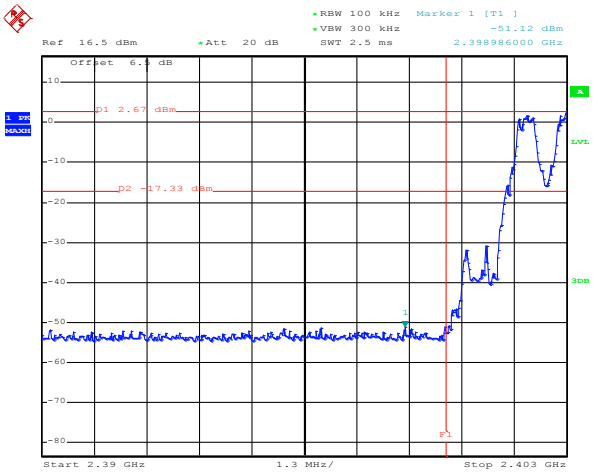
GFSK

Lowest Channel



Date: 25.MAY.2016 22:59:11

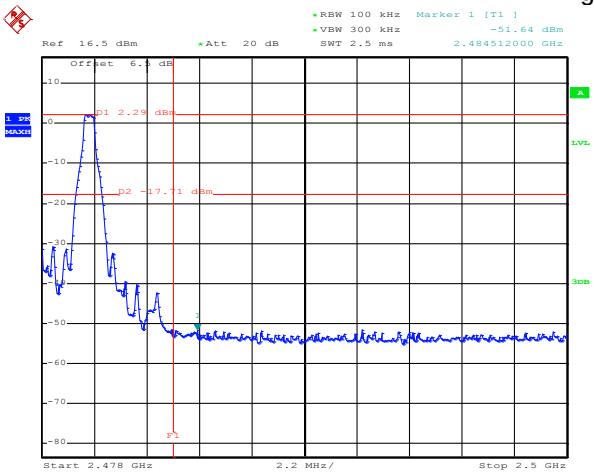
No-hopping mode



Date: 25.MAY.2016 23:00:15

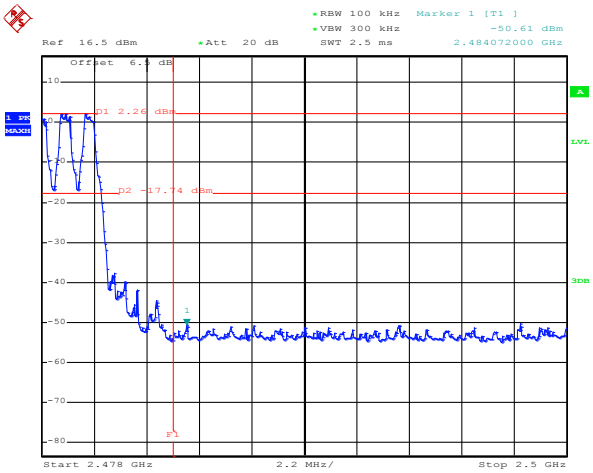
Hopping mode

Highest Channel



Date: 25.MAY.2016 23:14:25

No-hopping mode

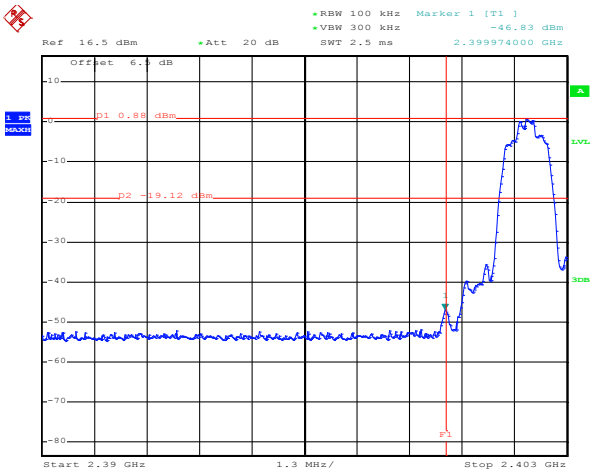


Date: 25.MAY.2016 23:15:51

Hopping mode

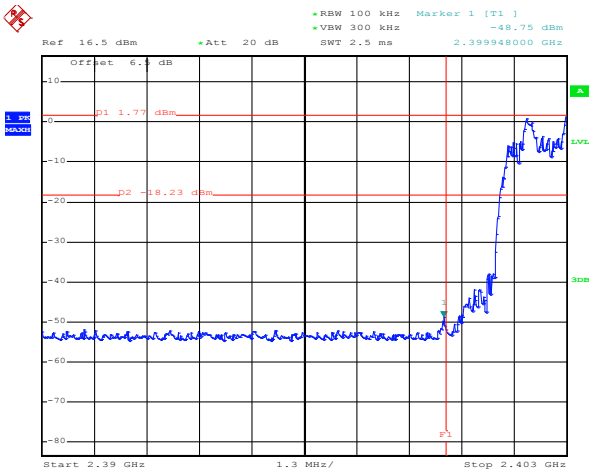
π/4-DQPSK

Lowest Channel



Date: 25.MAY.2016 23:01:47

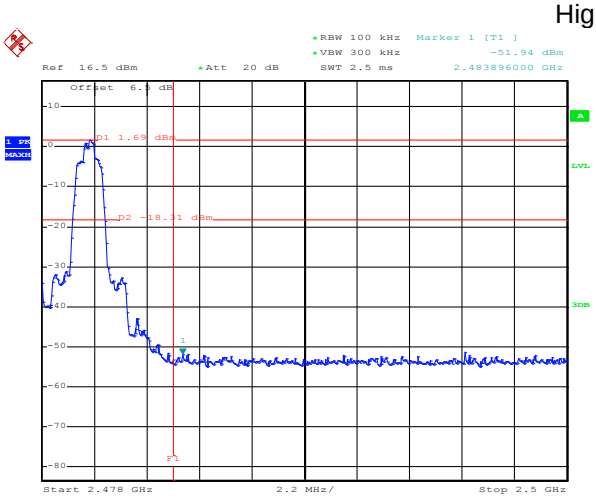
No-hopping mode



Date: 25.MAY.2016 23:02:50

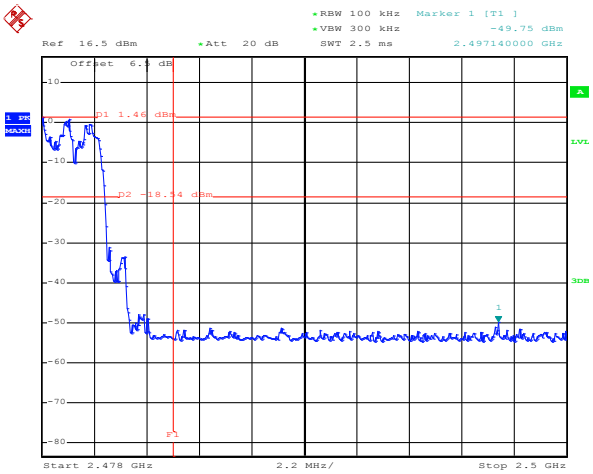
Hopping mode

Highest Channel



Date: 25.MAY.2016 23:11:38

No-hopping mode

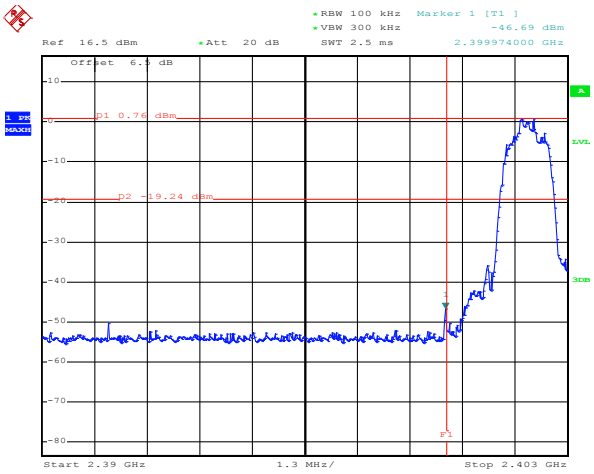


Date: 25.MAY.2016 23:12:58

Hopping mode

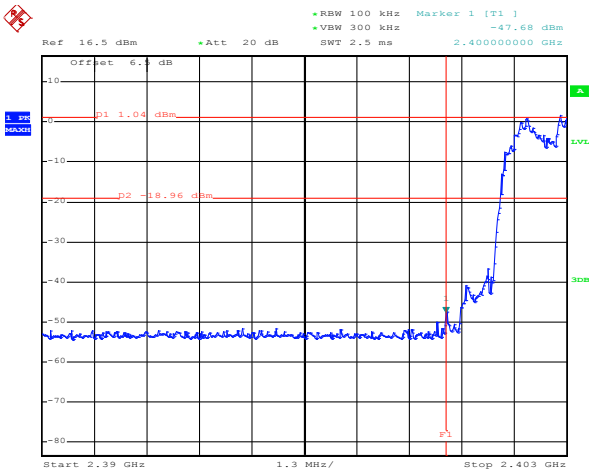
8DPSK

Lowest Channel



Date: 26.MAY.2016 15:02:12

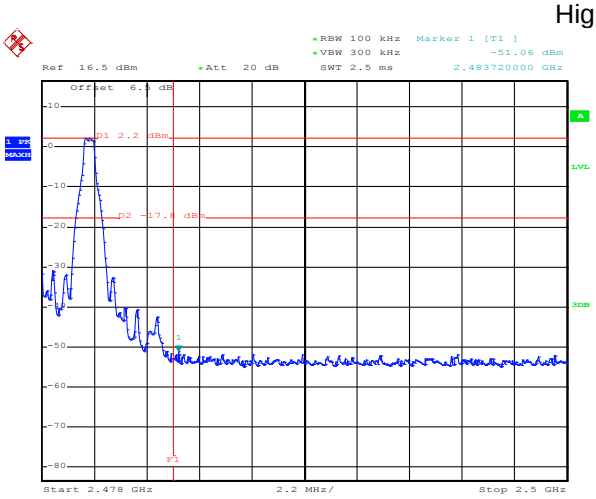
No-hopping mode



Date: 25.MAY.2016 23:06:02

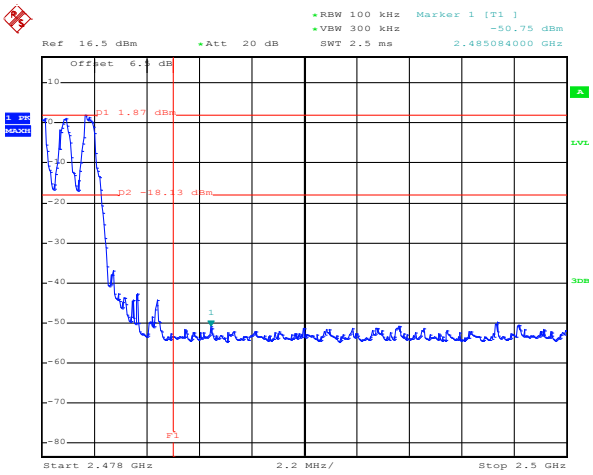
Hopping mode

Highest Channel



Date: 25.MAY.2016 23:08:24

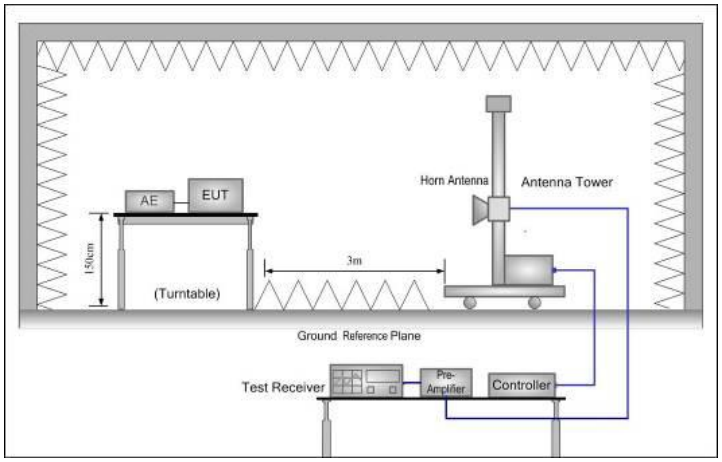
No-hopping mode



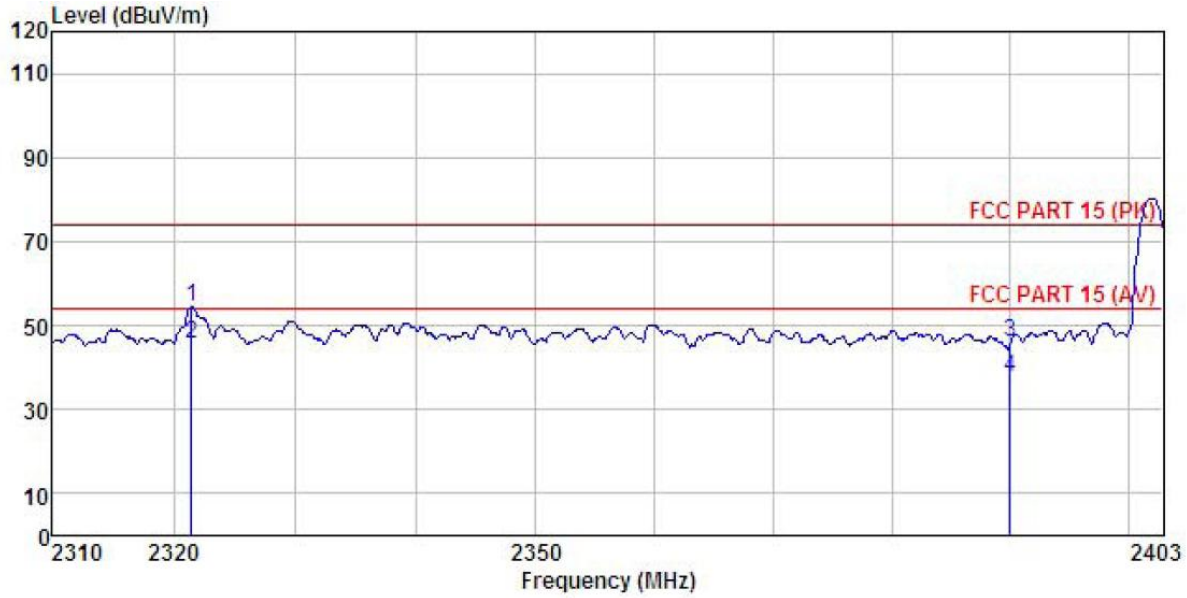
Date: 25.MAY.2016 23:09:54

Hopping mode

6.9.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205
Test Method:	ANSI C63.10: 2013
Test Frequency Range:	2.3GHz to 2.5GHz
Test site:	Measurement Distance: 3m
Receiver setup:	Frequency / Detector / RBW / VBW / Remark Above 1GHz / Peak / 1MHz / 3MHz / Peak Value Above 1GHz / RMS / 1MHz / 3MHz / Average Value
Limit:	Frequency / Limit (dBuV/m @3m) / Remark Above 1GHz / 54.00 / Average Value Above 1GHz / 74.00 / Peak Value
Test setup:	
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Passed

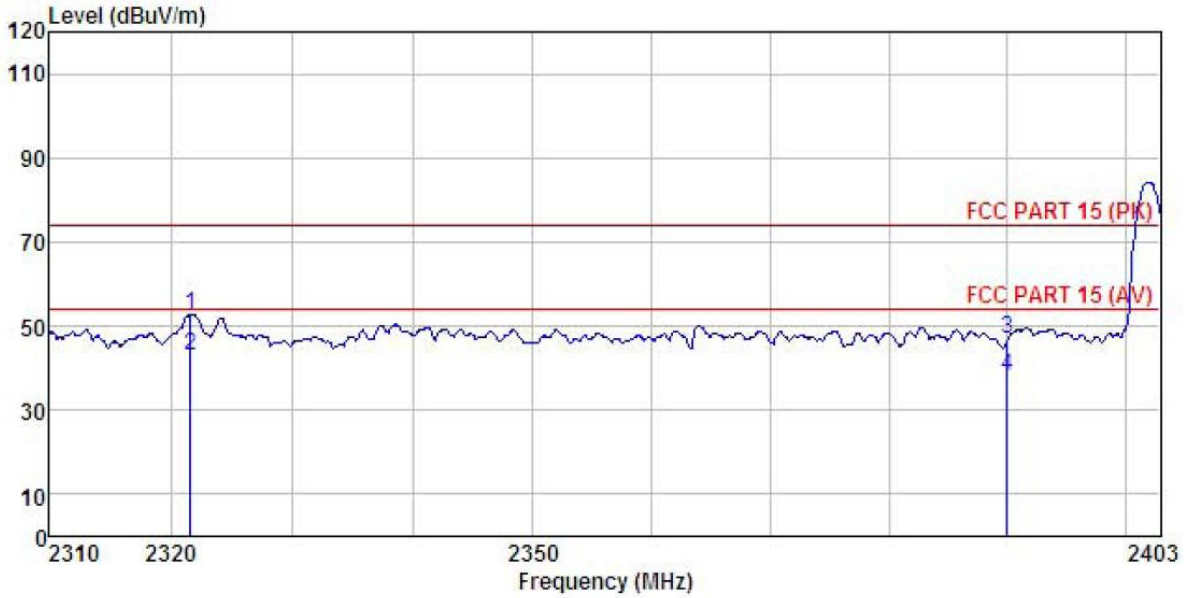
GFSK mode
Test channel: Lowest
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : USB Bluetooth Adapter
Model : PBT06H
Test mode : DH1-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5'C Huni:55% 101KPa
Test Engineer: YT
REMARK :

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2321.425	24.35	23.67	6.48	0.00	54.50	74.00	-19.50	Peak
2	2321.425	15.64	23.67	6.48	0.00	45.79	54.00	-8.21	Average
3	2390.000	15.54	23.68	6.63	0.00	45.85	74.00	-28.15	Peak
4	2390.000	7.52	23.68	6.63	0.00	37.83	54.00	-16.17	Average

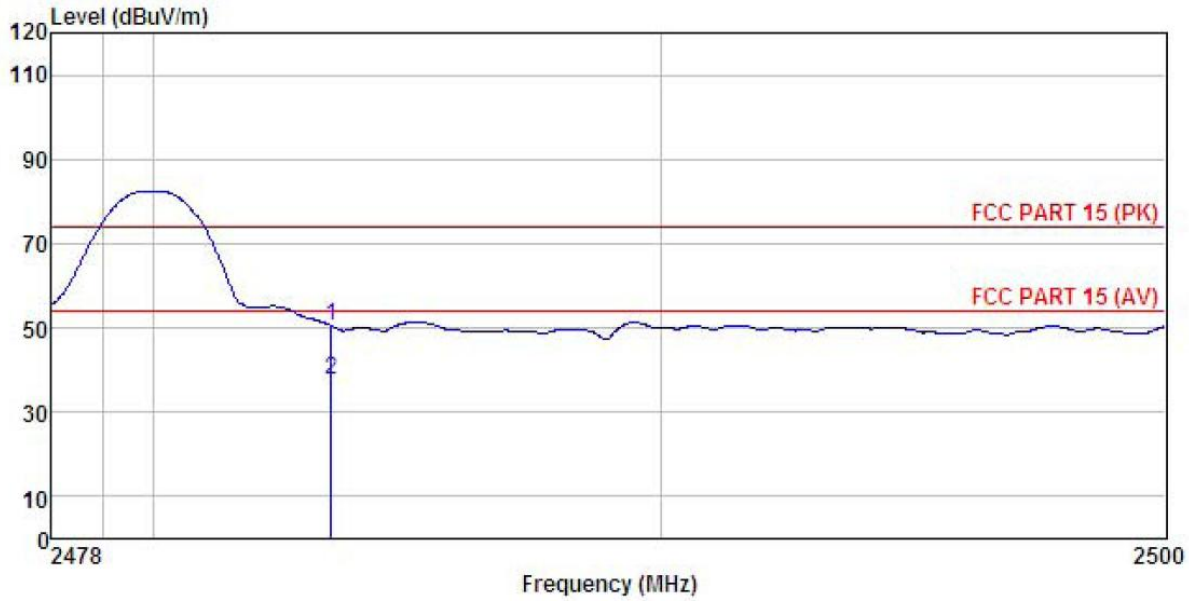
Vertical:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : USB Bluetooth Adapter
Model : PBT06H
Test mode : DH1-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5'C Huni:55% 101KPa
Test Engineer: YT
REMARK :

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2321.608	22.67	23.67	6.48	0.00	52.82	74.00	-21.18	Peak
2	2321.608	12.76	23.67	6.48	0.00	42.91	54.00	-11.09	Average
3	2390.000	16.42	23.68	6.63	0.00	46.73	74.00	-27.27	Peak
4	2390.000	7.68	23.68	6.63	0.00	37.99	54.00	-16.01	Average

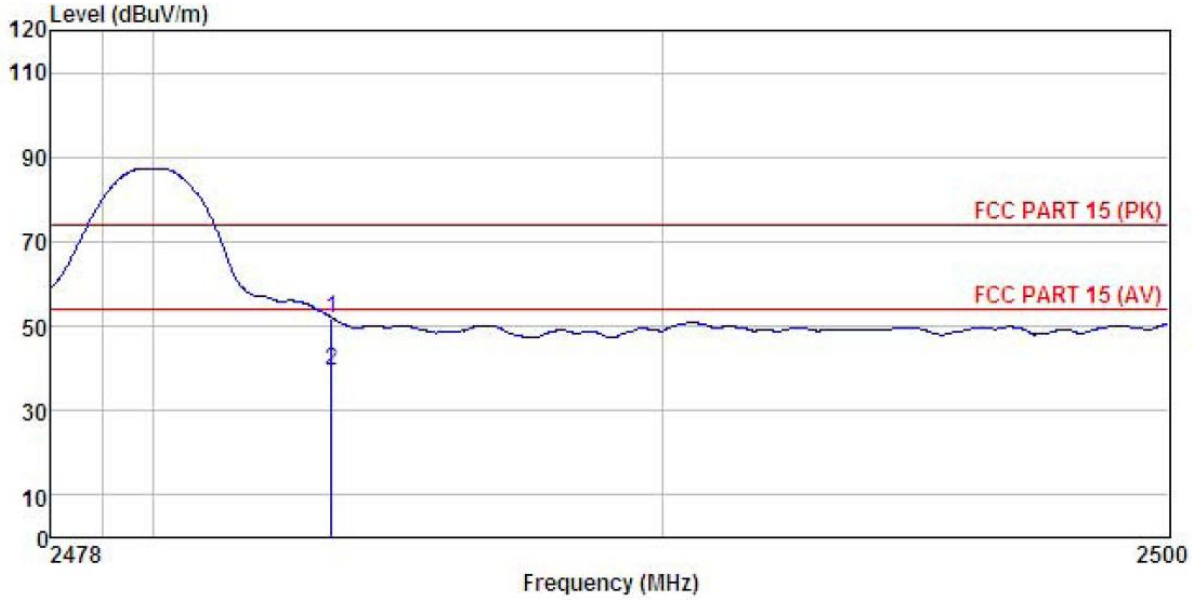
Test channel:Highest
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : USB Bluetooth Adapter
Model : PBT06H
Test mode : DH1-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5℃ Huni:55% 101KPa
Test Engineer: YT
REMARK :

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	19.81	23.70	6.85	0.00	50.36	74.00	-23.64	Peak
2	2483.500	7.17	23.70	6.85	0.00	37.72	54.00	-16.28	Average

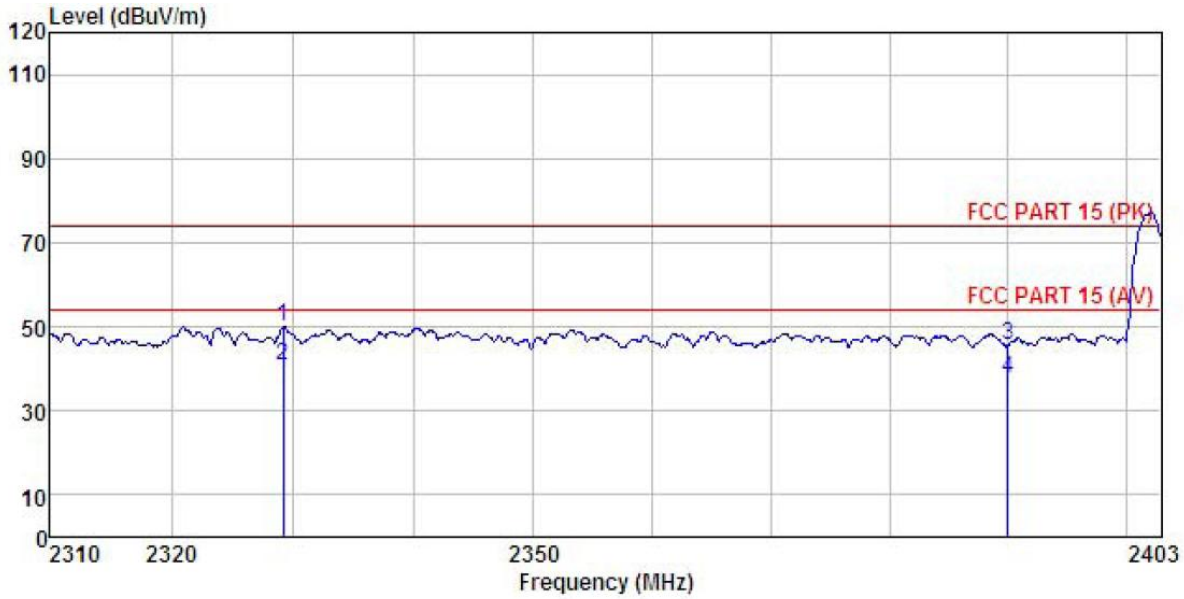
Vertical:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : USB Bluetooth Adapter
Model : PBT06H
Test mode : DH1-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5℃ Huni:55% 101KPa
Test Engineer: YT
REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	21.34	23.70	6.85	0.00	51.89	74.00	-22.11	Peak
2	2483.500	8.92	23.70	6.85	0.00	39.47	54.00	-14.53	Average

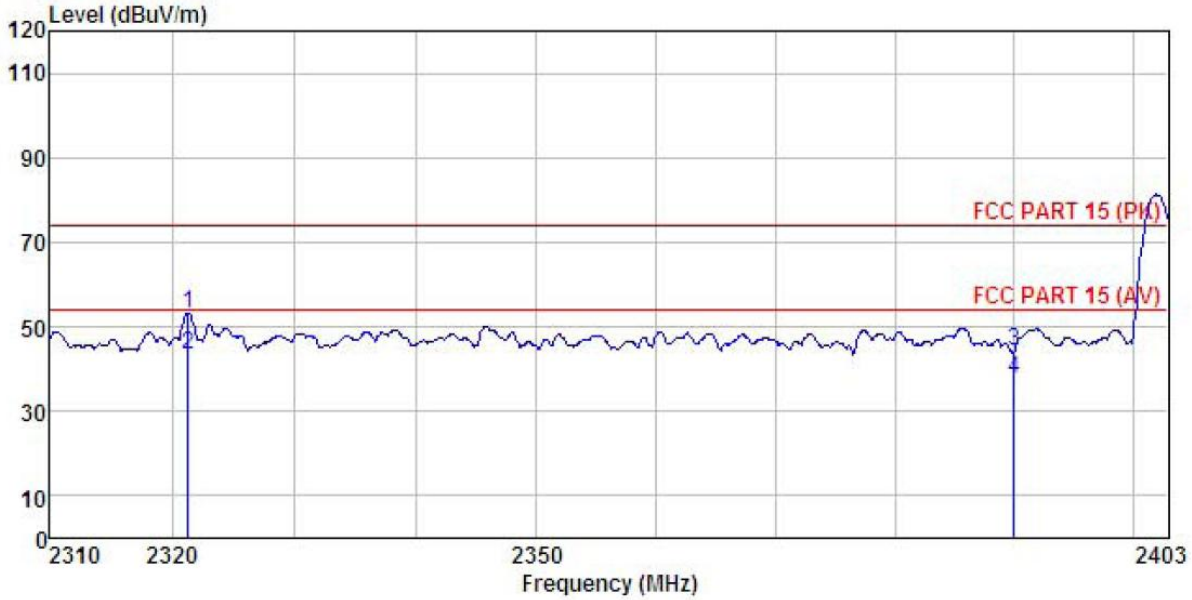
π/4-DQPSK mode
Test channel: Lowest
Horizontal:




```
Site          : 3m chamber
Condition     : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT           : USB Bluetooth Adapter
Model         : PBT06H
Test mode     : 2DH1-L mode
Power Rating  : AC120V/60Hz
Environment   : Temp:25.5'C  Huni:55%  101KPa
Test Engineer: YT
REMARK        :
```

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2329.227	19.70	23.67	6.51	0.00	49.88	74.00	-24.12	Peak
2	2329.227	10.64	23.67	6.51	0.00	40.82	54.00	-13.18	Average
3	2390.000	15.43	23.68	6.63	0.00	45.74	74.00	-28.26	Peak
4	2390.000	7.18	23.68	6.63	0.00	37.49	54.00	-16.51	Average

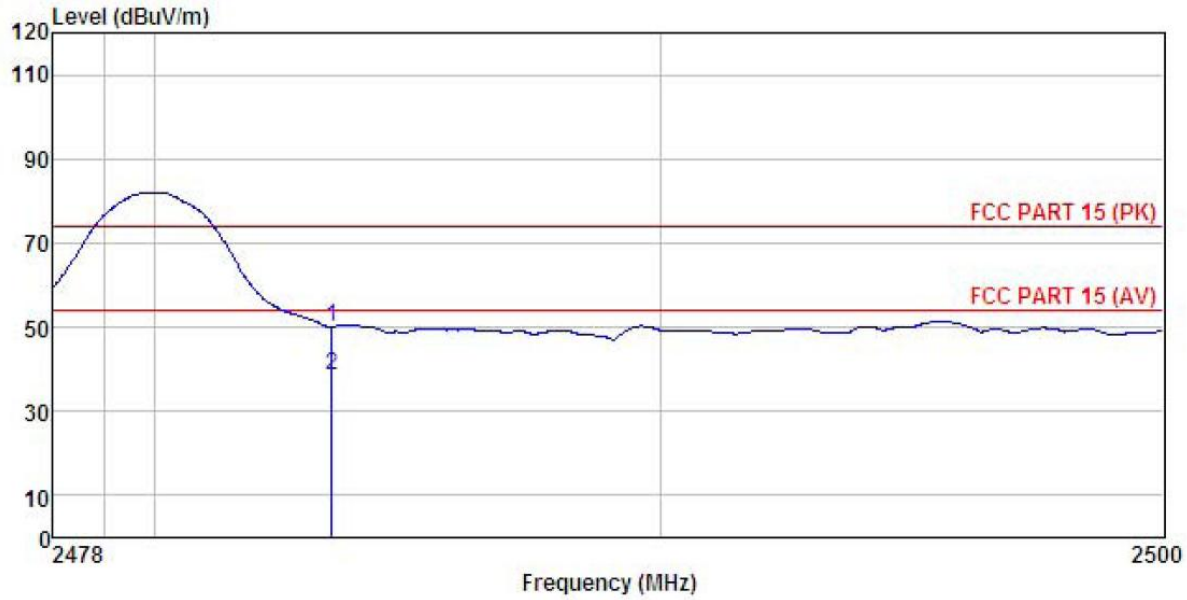
Vertical:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : USB Bluetooth Adapter
Model : PBT06H
Test mode : 2DH1-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5℃ Huni:55% 101KPa
Test Engineer: YT
REMARK :

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2321.242	23.07	23.67	6.48	0.00	53.22	74.00	-20.78	Peak
2	2321.242	13.26	23.67	6.48	0.00	43.41	54.00	-10.59	Average
3	2390.000	14.09	23.68	6.63	0.00	44.40	74.00	-29.60	Peak
4	2390.000	7.48	23.68	6.63	0.00	37.79	54.00	-16.21	Average

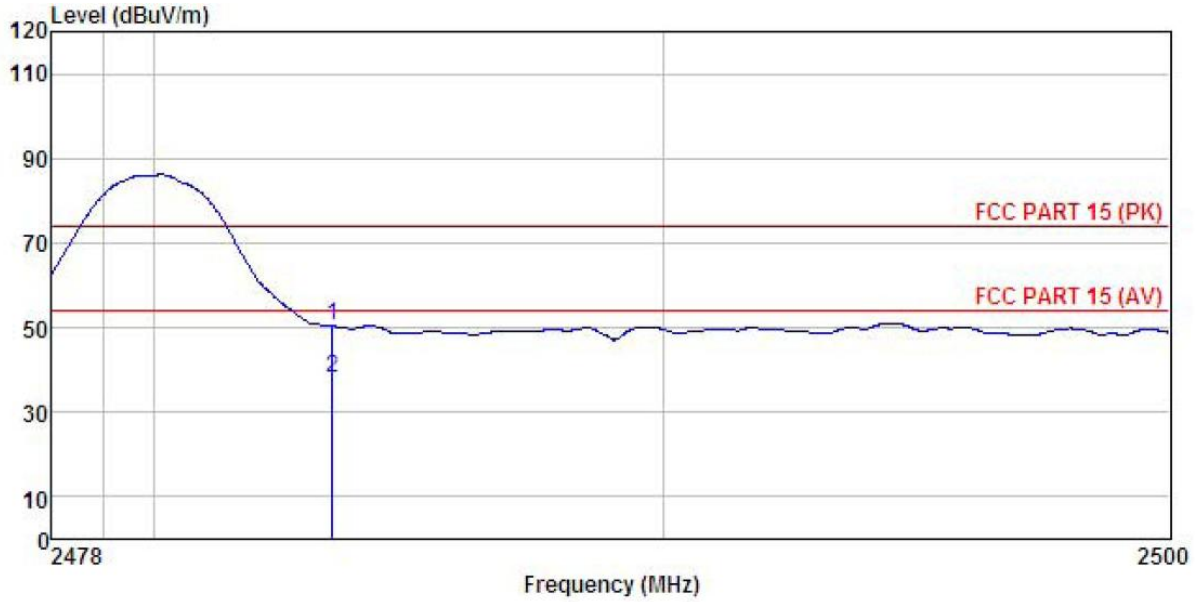
Test channel:Highest
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : USB Bluetooth Adapter
Model : PBT06H
Test mode : 2DH1-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5'C Huni:55% 101KPa
Test Engineer: YT
REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	19.55	23.70	6.85	0.00	50.10	74.00	-23.90	Peak
2	2483.500	7.84	23.70	6.85	0.00	38.39	54.00	-15.61	Average

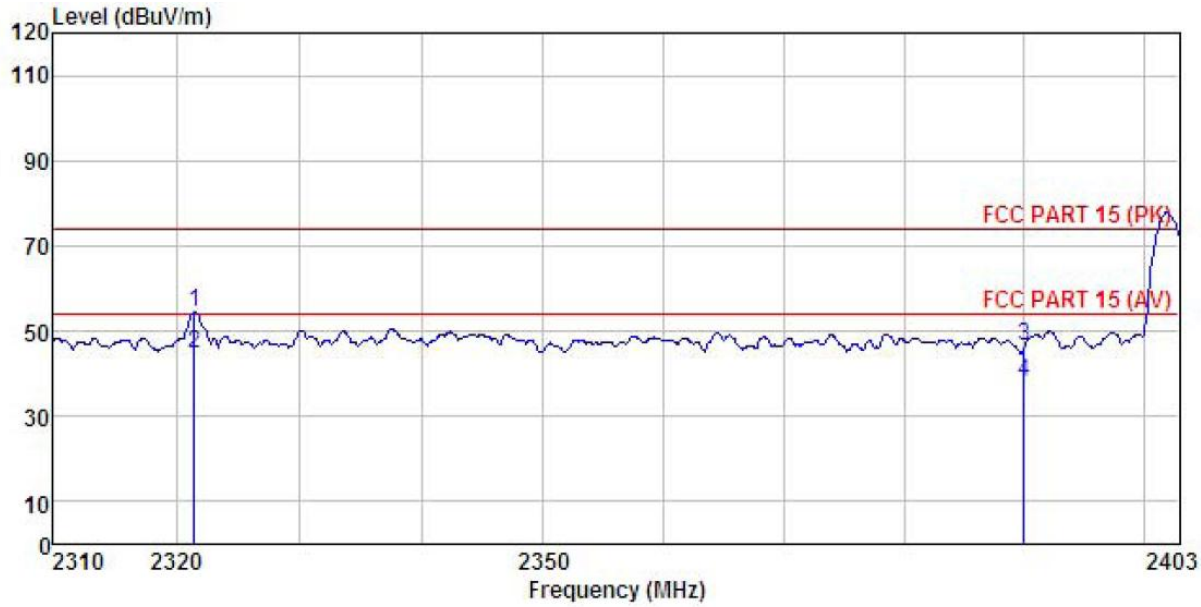
Vertical:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : USB Bluetooth Adapter
Model : PBT06H
Test mode : 2DH1-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5'C Huni:55% 101KPa
Test Engineer: YT
REMARK :

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	19.73	23.70	6.85	0.00	50.28	74.00	-23.72	Peak
2	2483.500	7.40	23.70	6.85	0.00	37.95	54.00	-16.05	Average

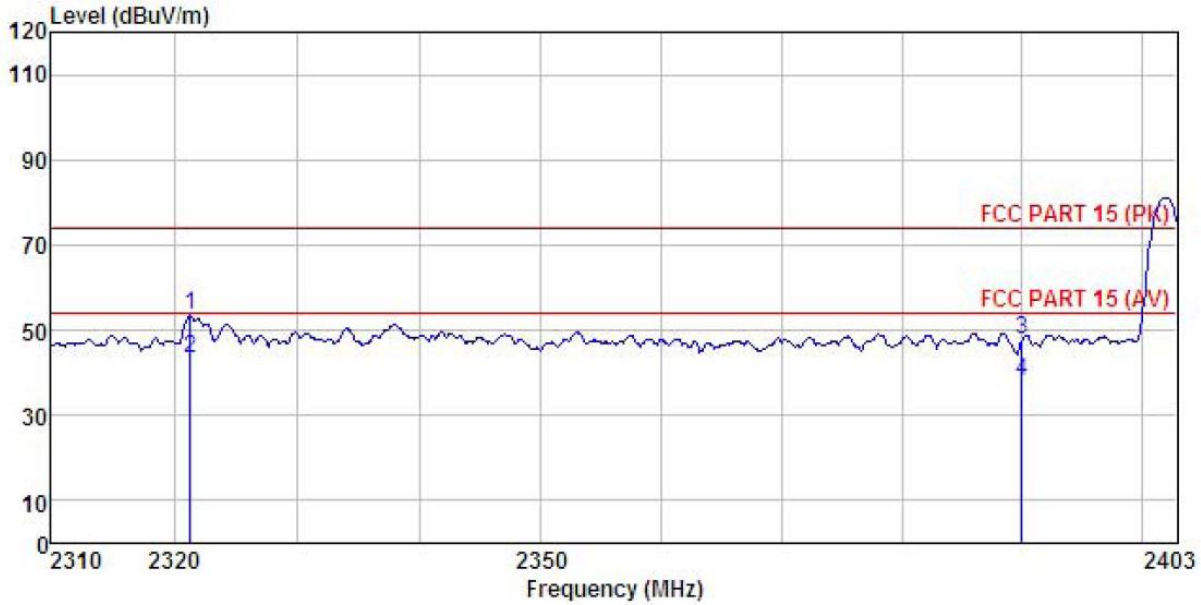
8DPSK mode
Test channel: Lowest
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : USB Bluetooth Adapter
Model : PBT06H
Test mode : 3DH1-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5℃ Huni:55% 101KPa
Test Engineer: YT
REMARK :

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2321.425	24.28	23.67	6.48	0.00	54.43	74.00	-19.57	Peak
2	2321.425	14.68	23.67	6.48	0.00	44.83	54.00	-9.17	Average
3	2390.000	16.10	23.68	6.63	0.00	46.41	74.00	-27.59	Peak
4	2390.000	7.68	23.68	6.63	0.00	37.99	54.00	-16.01	Average

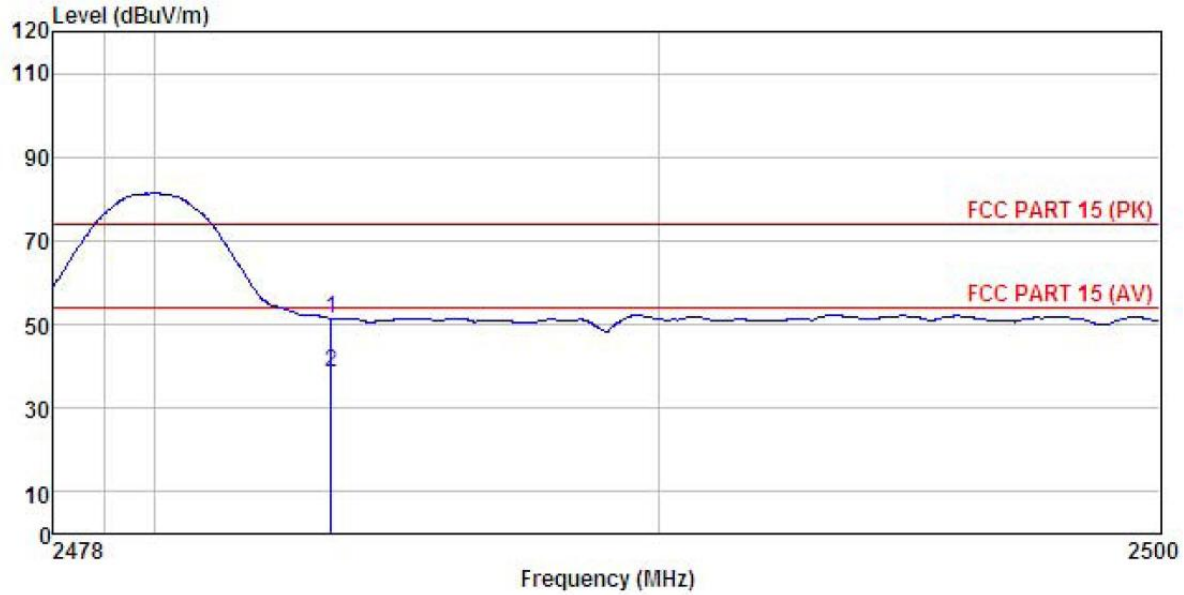
Vertical:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : USB Bluetooth Adapter
Model : PBT06H
Test mode : 3DH1-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5℃ Huni:55% 101KPa
Test Engineer: YT
REMARK :

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2321.242	23.22	23.67	6.48	0.00	53.37	74.00	-20.63	Peak
2	2321.242	13.14	23.67	6.48	0.00	43.29	54.00	-10.71	Average
3	2390.000	17.59	23.68	6.63	0.00	47.90	74.00	-26.10	Peak
4	2390.000	7.84	23.68	6.63	0.00	38.15	54.00	-15.85	Average

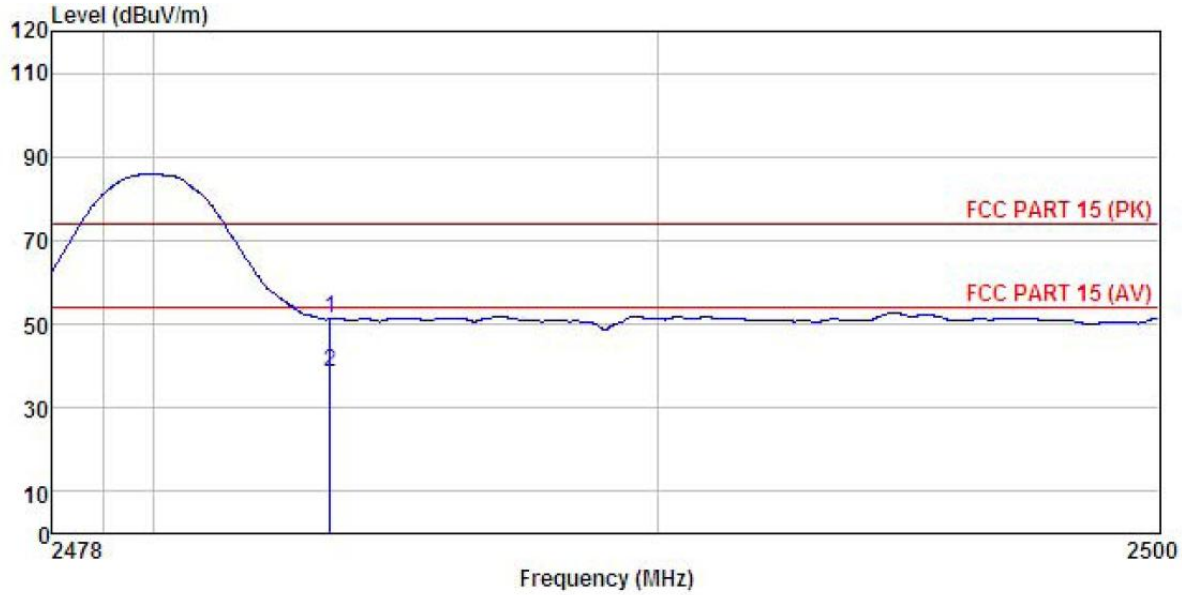
Test channel:Highest
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : USB Bluetooth Adapter
Model : PBT06H
Test mode : 3DH1-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5℃ Huni:55% 101KPa
Test Engineer: YT
REMARK :

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	20.78	23.70	6.85	0.00	51.33	74.00	-22.67	Peak
2	2483.500	7.87	23.70	6.85	0.00	38.42	54.00	-15.58	Average

Vertical:

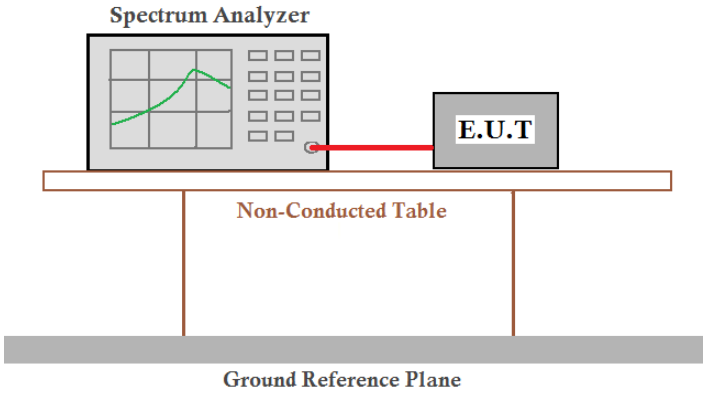



```
Site          : 3m chamber
Condition     : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT           : USB Bluetooth Adapter
Model         : PBT06H
Test mode     : 3DH1-H mode
Power Rating  : AC120V/60Hz
Environment   : Temp:25.5'C  Huni:55%  101KPa
Test Engineer: YT
REMARK        :
```

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	20.73	23.70	6.85	0.00	51.28	74.00	-22.72	Peak
2	2483.500	8.06	23.70	6.85	0.00	38.61	74.00	-35.39	Average

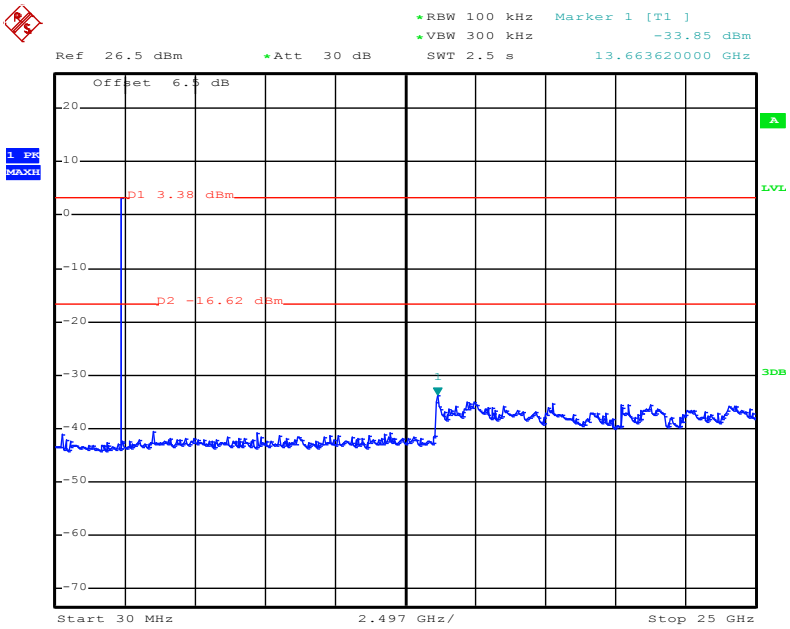
6.10 Spurious Emission

6.10.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 and DA00-705
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

GFSK

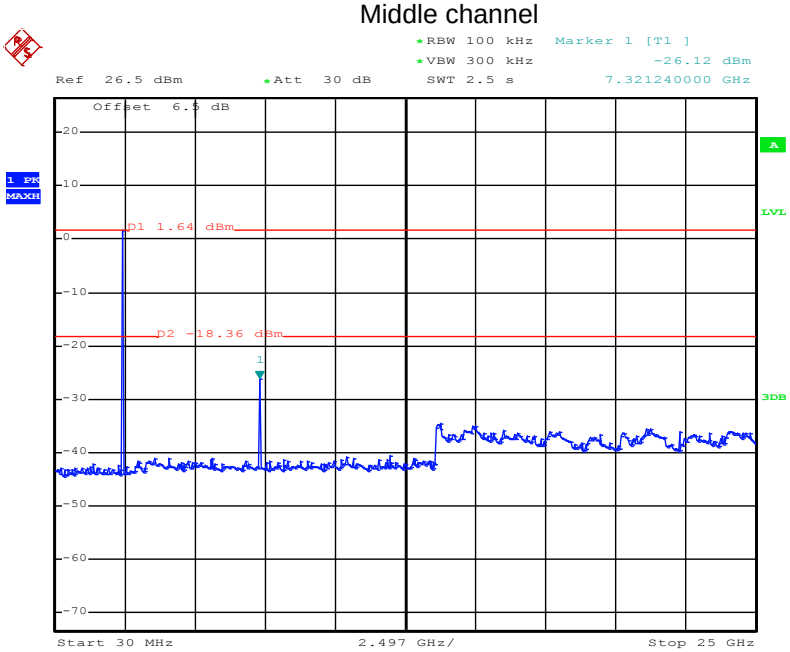
Lowest channel



Date: 25.MAY.2016 23:49:40

30MHz~25GHz

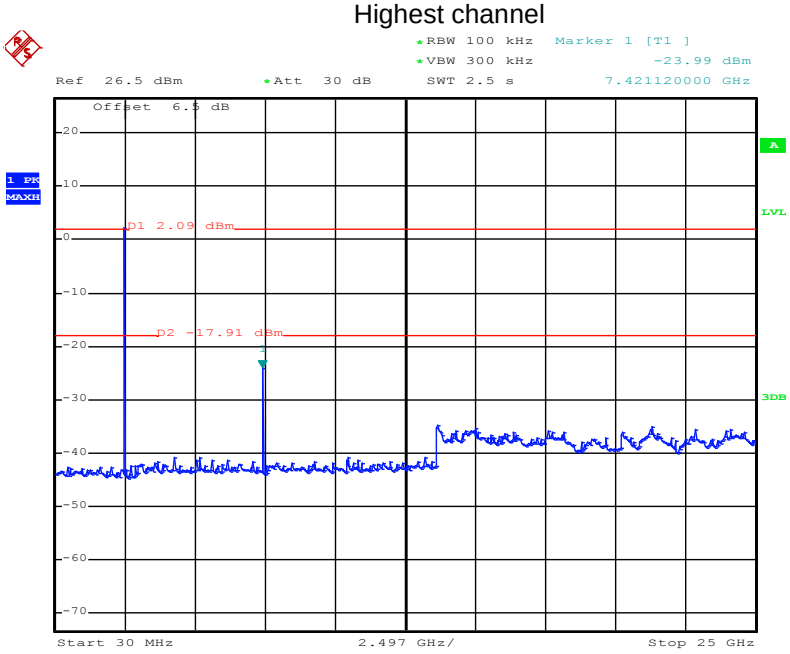
Middle channel



Date: 25.MAY.2016 23:47:09

30MHz~25GHz

Highest channel

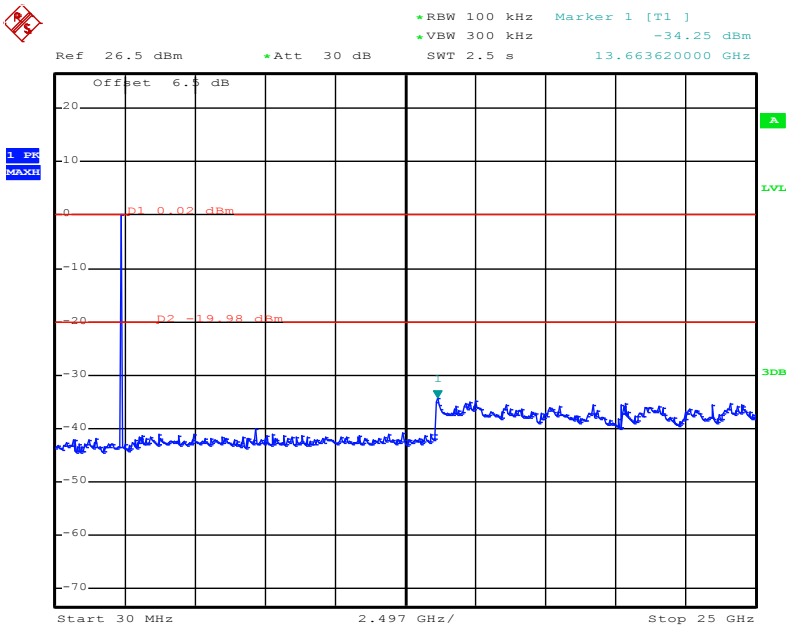


Date: 25.MAY.2016 23:47:46

30MHz~25GHz

π/4-DQPSK

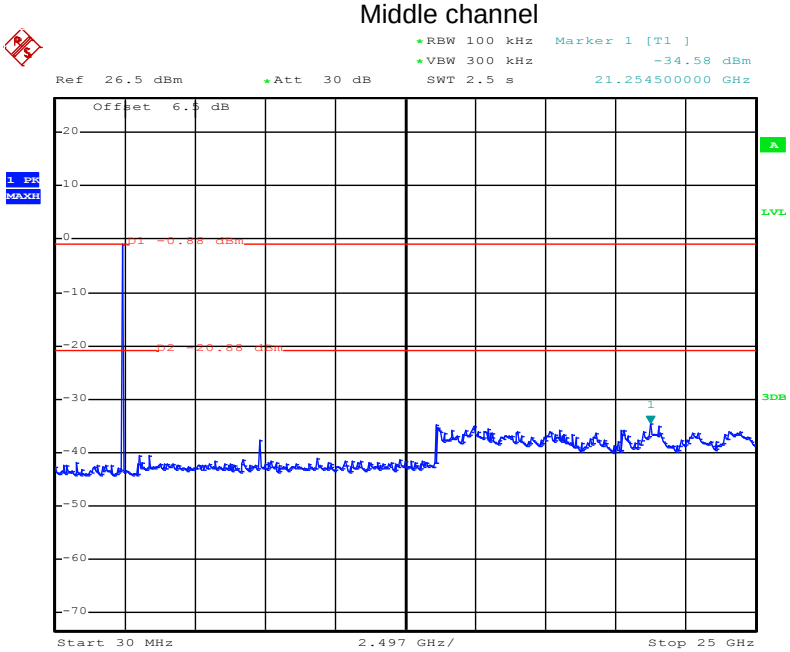
Lowest channel



Date: 25.MAY.2016 23:52:23

30MHz~25GHz

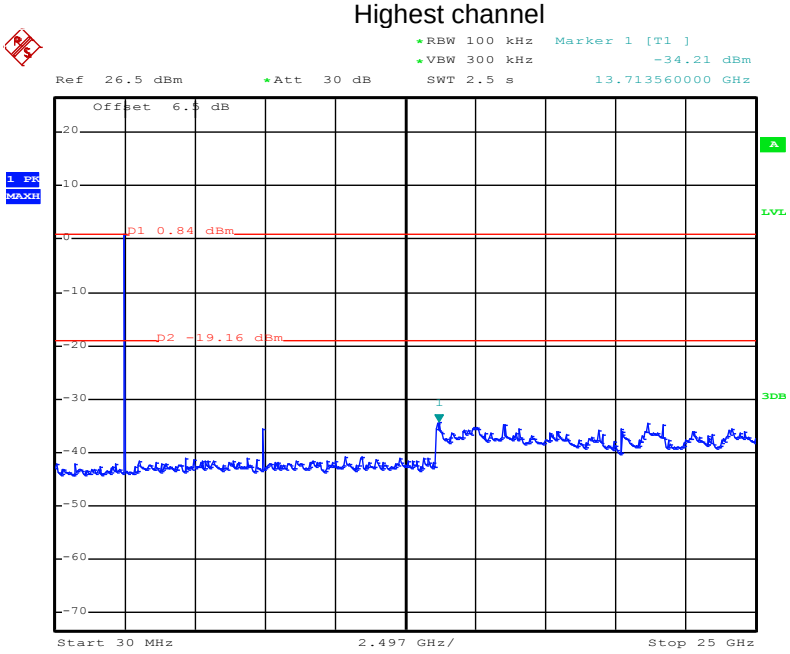
Middle channel



Date: 25.MAY.2016 23:53:42

30MHz~25GHz

Highest channel

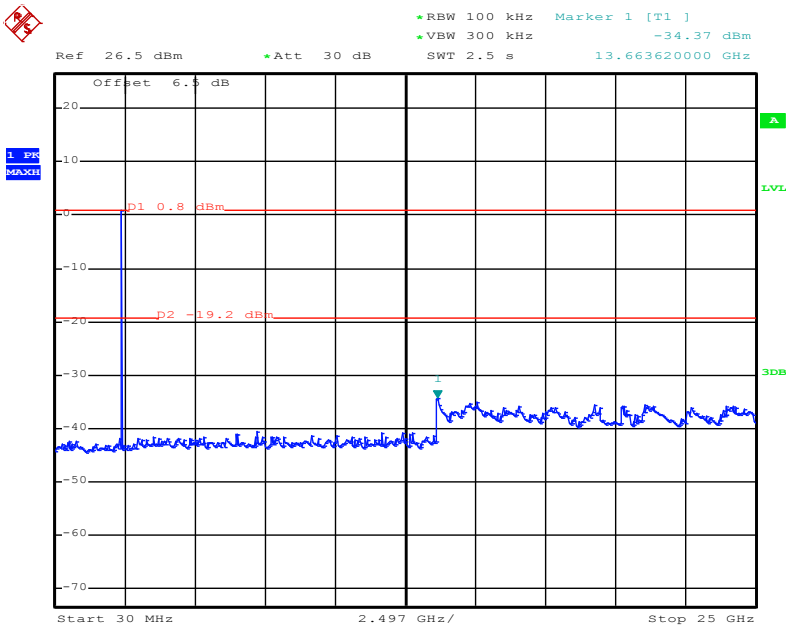


Date: 25.MAY.2016 23:54:37

30MHz~25GHz

8DPSK

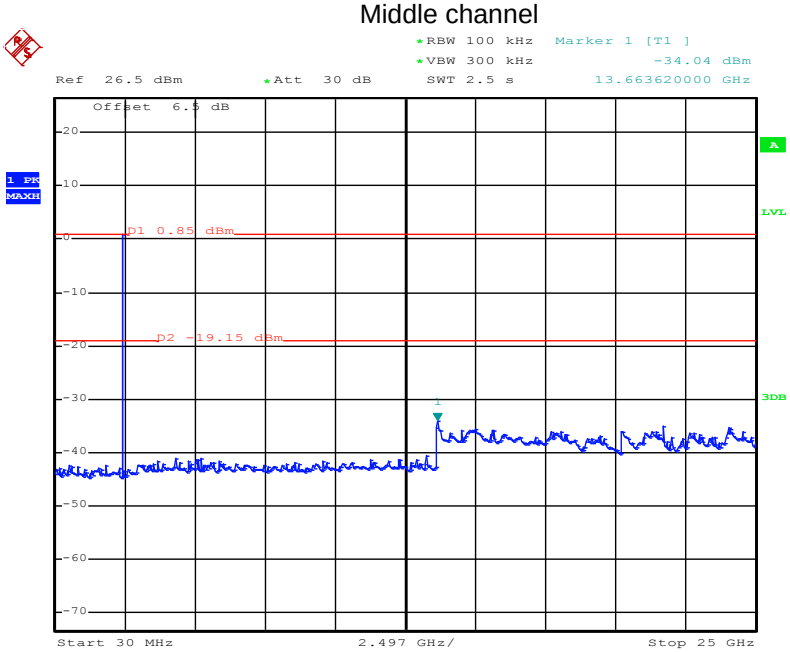
Lowest channel



Date: 25.MAY.2016 23:55:37

30MHz~25GHz

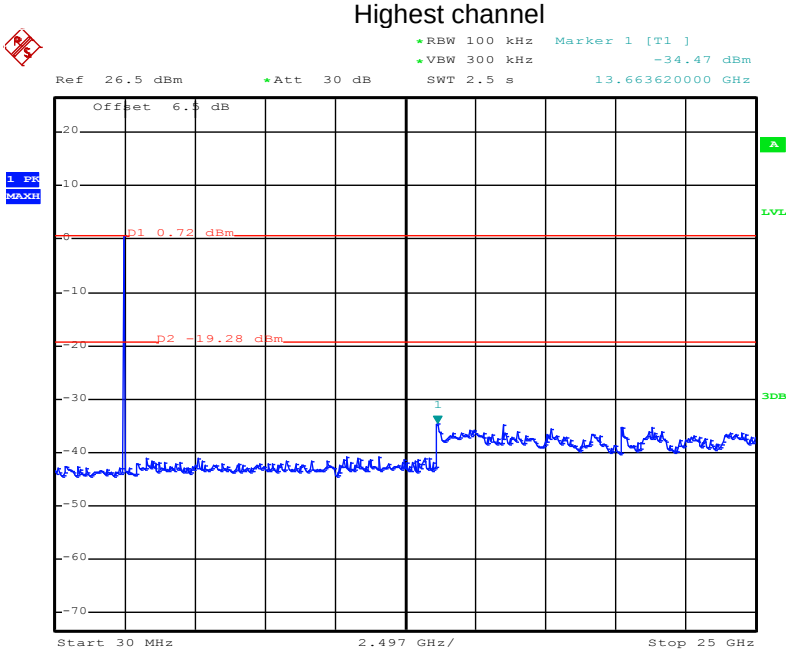
Middle channel



Date: 25.MAY.2016 23:56:49

30MHz~25GHz

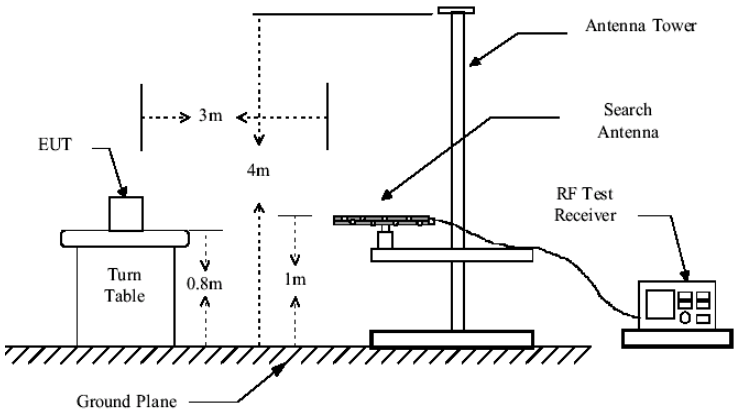
Highest channel

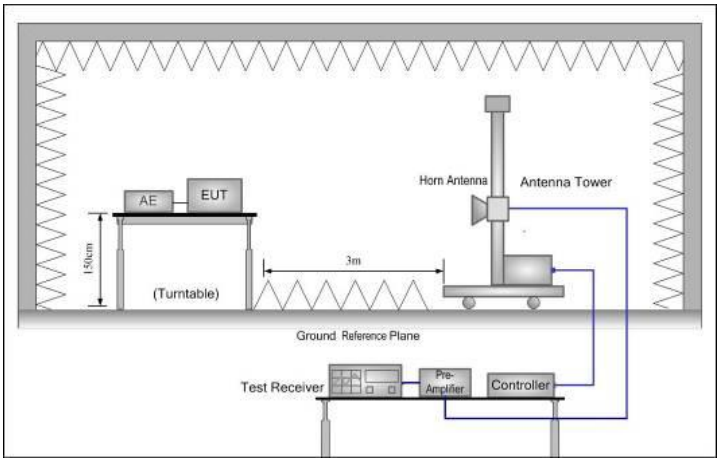


Date: 25.MAY.2016 23:57:56

30MHz~25GHz

6.10.2 Radiated Emission Method

<table>
<tr><td>Test Requirement:</td><td>FCC Part 15 C Section 15.209</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10: 2013</td></tr>
<tr><td>Test Frequency Range:</td><td>9kHz to 25GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120kHz</td><td>300kHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>RMS</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr>
<tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr>
<tr><td>74.0</td><td>Peak Value</td></tr>
</table>
</td></tr>
<tr><td>Test setup:</td><td>Below 1GHz
 

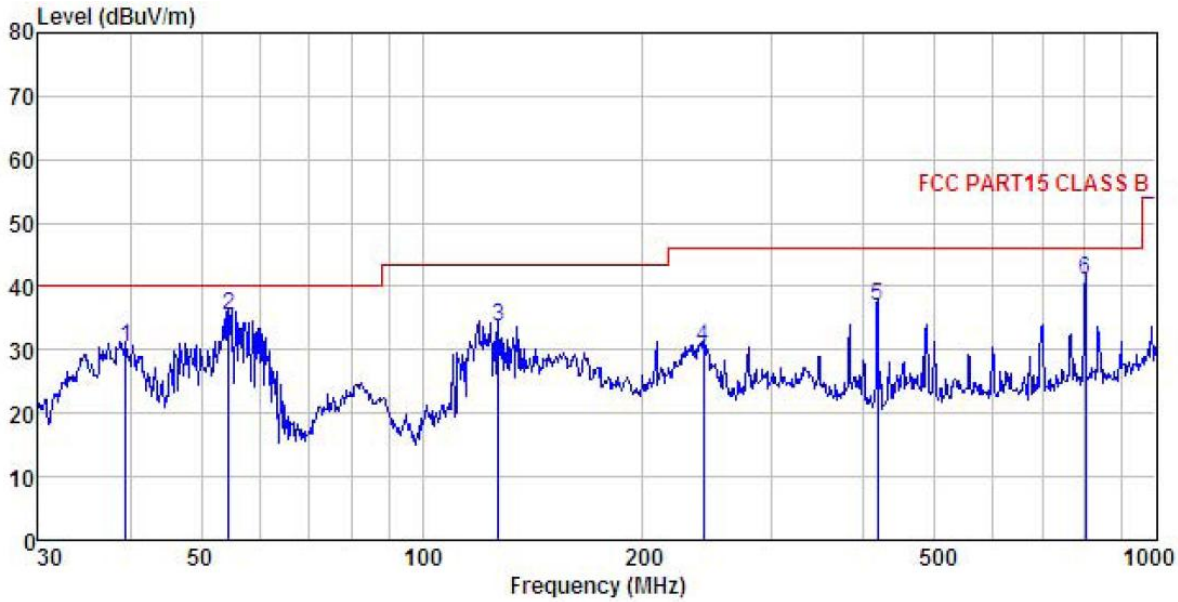
Above 1GHz
 
</td></tr>
</table>

Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

Remark:

1. *During the test, pre-scan the GFSK, π/4-DQPSK, 8DPSK modulation, and found the GFSK modulation is the worst case.*
2. *9 kHz to 30 MHz is noise floor, so only shows the data of above 30MHz in this report.*

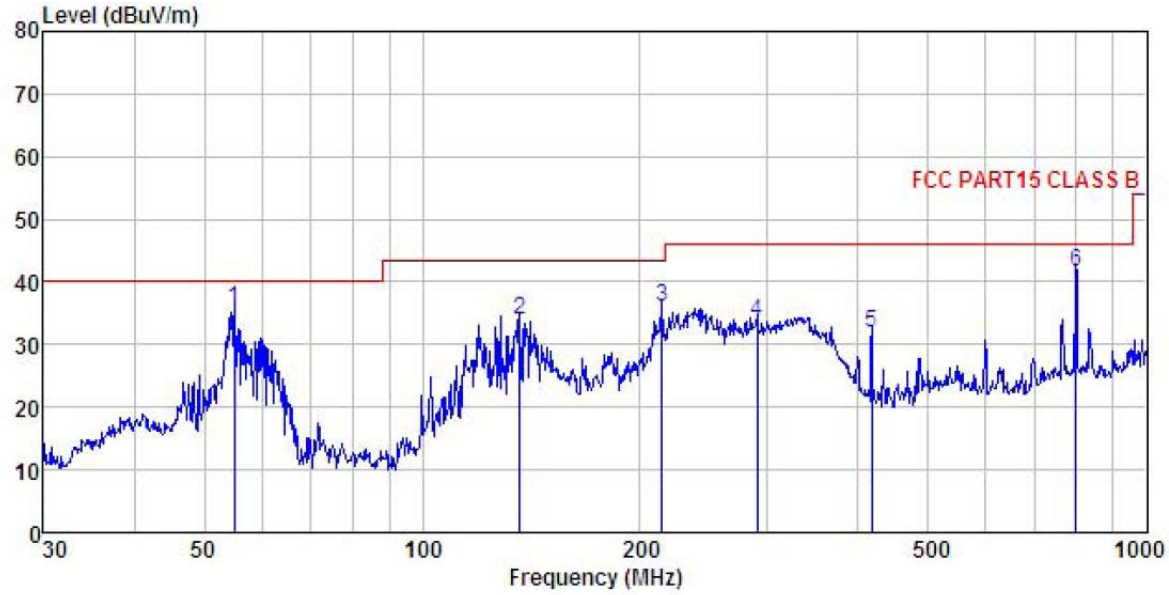
Measurement data:
Below 1GHz
Vertical:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M3G) VERTICAL
EUT : USB Bluetooth Adapter
Model : PBT06H
Test mode : BT mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5'C Huni:55% 101KPa
Test Engineer: YT
REMARK :

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	39.437	42.38	16.68	1.21	29.91	30.36	40.00	-9.64	QP
2	54.452	50.95	13.06	1.34	29.80	35.55	40.00	-4.45	QP
3	127.218	48.60	12.18	2.25	29.35	33.68	43.50	-9.82	QP
4	241.676	44.51	11.81	2.82	28.59	30.55	46.00	-15.45	QP
5	417.641	46.70	16.02	3.12	28.81	37.03	46.00	-8.97	QP
6	801.786	44.14	20.60	4.34	28.19	40.89	46.00	-5.11	QP

Horizontal:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M3G) HORIZONTAL
EUT : USB Bluetooth Adapter
Model : PBT06H
Test mode : BT mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: YT
REMARK :

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	55.027	51.55	12.65	1.36	29.80	35.76	40.00	-4.24	QP
2	136.460	49.02	11.91	2.36	29.29	34.00	43.50	-9.50	QP
3	214.514	50.74	11.02	2.85	28.74	35.87	43.50	-7.63	QP
4	290.017	47.01	12.30	2.91	28.47	33.75	46.00	-12.25	QP
5	417.641	41.55	16.02	3.12	28.81	31.88	46.00	-14.12	QP
6	798.980	44.76	20.60	4.35	28.20	41.51	46.00	-4.49	QP

Above 1GHz:

Test channel:			Lowest		Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	45.21	35.99	10.57	40.24	51.53	74.00	-22.47	Vertical
4804.00	45.81	35.99	10.57	40.24	52.13	74.00	-21.87	Horizontal
Test channel:			Lowest		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	35.68	35.99	10.57	40.24	42.00	54.00	-12.00	Vertical
4804.00	35.81	35.99	10.57	40.24	42.13	54.00	-11.87	Horizontal

Test channel:			Middle		Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	44.64	36.38	10.66	40.15	51.53	74.00	-22.47	Vertical
4882.00	45.39	36.38	10.66	40.15	52.28	74.00	-21.72	Horizontal
Test channel:			Middle		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	34.59	36.38	10.66	40.15	41.48	54.00	-12.52	Vertical
4882.00	35.83	36.38	10.66	40.15	42.72	54.00	-11.28	Horizontal

Test channel:			Highest		Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	44.56	36.71	10.73	40.03	51.97	74.00	-22.03	Vertical
4960.00	44.34	36.71	10.73	40.03	51.75	74.00	-22.25	Horizontal
Test channel:			Highest		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	34.58	36.71	10.73	40.03	41.99	54.00	-12.01	Vertical
4960.00	34.71	36.71	10.73	40.03	42.12	54.00	-11.88	Horizontal

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*