



ELECTROMAGNETIC COMPATIBILITY TEST REPORT TO

FCC 47 CFR Part 15 SUBPART B, SUBPART C- 15.247, 15.212 & INDUSTRY CANADA ICES-003 Issue 6, RSS-Gen Issue 4, RSS-247 Issue 1 For Transmitter Intentional Radiator

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Laboratory Accreditations (per ISO/IEC 17025:2005):



American Association for Laboratory Accreditation Certificate Number: 3657.02

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Test Standard: FCC 47 CFR Part 15 SUBPART B; SUBPART C - 15.247, 15.212;
& INDUSTRY CANADA ICES-003 Issue 6; RSS-Gen Issue 4, RSS-247 Issue 1

Applicant's name: Intrinsyc Technologies Corp.



Address: 885 Dunsmuir Street – Suite 300, Vancouver, BC, Canada V6C 1N5
Model Number: Open-Q™ 410 SOM
Test Item Description: Open-Q™ 410 SOM is based on Qualcomm's Snapdragon 410 processor and features a Qualcomm WCN3620 Wi-Fi & BT combo chip to provide wireless connectivity.

Industry Canada Registration: 9049A-ITCOQ410S
FCC ID: 2AFDI-ITCOQ410S



Revision History

Date	Report Number	Rev #	Details	Authors Initials
May 27, 2016	E10702-1604_INTRINSYC-OPENQ410_SOM	0.0	Draft Test Report	JQ
May 31, 2016	E10702-1604_INTRINSYC-OPENQ410_SOM	0.1	Draft Test Report	JQ
June 1, 2016	E10702-1604_INTRINSYC-OPENQ410_SOM	1.0	Final Test Report	JQ
June 2, 2016	E10702-1604_INTRINSYC-OPENQ410_SOM	2.0	Final Test Report	JQ
June 14, 2016	E10702-1604_INTRINSYC-OPENQ410_SOM	3.0	Final Test Report, update M/N	JQ
June 27, 2016	E10702-1604_Intrinsic-OpenQ410_SOM_DSS	4.0	Final Test Report for DSS	JQ
July 15, 2016	E10702-1604_Intrinsic-OpenQ410_SOM_DSS	5.0	Update as per TCB comments	JQ



EMC TEST SUMMARY

The following tests demonstrate testimony for the FCC & IC Marks for Transceivers / electromagnetic compatibility testing for this EUT.

	Test	Bluetooth Standard	Description	Result
Part 1	Antenna requirement	FCC 47 CFR Part 15.203, RSS-Gen Issue 4 (7.1.2)	The antenna port has a unique connector	Complies
Part 2	RF power	RSS-247 Issue 1 FCC Subpart C 15.247 (b)	Digitally modulated and frequency hopping systems emissions should not exceed the limits	Complies
Part 3	Radiated spurious emissions	RSS-247 Issue 1& RSS-210 Issue 8; FCC Subpart C §15.209, 15.247 & 15.31	Emissions from intentional radiator should not exceed the limits	Complies
Part 4	20 dB Occupied Bandwidth	RSS-247-Issue 1, RSS-Gen Issue 4; FCC Subpart C §15.247	The transmitted signal bandwidth to be reported	Complies
Part 5	99% Occupied Bandwidth	RSS-210 Issue 8, RSS-Gen Issue 5	The bandwidth shall fall completely within the frequency range specified by the standard.	Complies
Part 6	Band edge	RSS-247 Issue 1 Section 5.5; FCC Subpart C §15.247(d)	Spurious emissions shall be 50dBc	Complies
Part 7	Conducted Spurious Emissions	RSS-247 Issue 1; FCC Subpart C §15.247	Radiated Spurious emissions shall be 20dBc	Complies
Part 8	Hopping Frequency Separation	RSS-247 Issue 1; FCC Subpart C §15,247	Should be between peaks in adjacent channels	Complies
Part 9	Number of Hopping Channels	RSS-247 Issue 1; FCC Subpart C §15,247	at least 15 non-overlapping channels	Complies
Part 10	Time of Occupancy	RSS-247 Issue 1; FCC Subpart C §15,247	shall not be greater than 0.4 seconds	Complies
Part 11	RF Exposure Evaluation	RSS-102 Issue 5 Section 2.5.2 FCC 47 CFR §2.1091 & & §1.1310	Any radio transmitter should not emit higher the limit.	Complies
Part 12	Frequency Stability	FCC Part 15.215(c) & RSS-Gen Issue 4 (8.11)	Measured at temperatures of -30°C (-4°F), +20°C (+68°F) and +50°C (+122°F)	Complies
Part 13	Radiated Emissions (Unintentional Mode)	FCC CFR47 Part 15 Subpart B; RSS Gen issue 4, ICES-003 Issue 6	Class B Limits	Complies
Part 14	AC Mains Conducted Emissions	FCC CFR47 Part 15 Subpart B; RSS Gen issue 4, ICES-003 Issue 6	Class B Limits	Complies



Tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC 47 CFR Part 15 SUBPART B, SUBPART C - 15.247, 15.212 & INDUSTRY CANADA ICES-003 Issue 6, RSS-Gen Issue 4, RSS-247 Issue1. The manufacturer is responsible for the tested product configuration, continued product compliance with these standards listed, and for the appropriate auditing of subsequent products as required.

X

A handwritten signature in blue ink that appears to read "Jack Qin".

Written by Jack Qin
RF/EMC Test Engineer/Technical Writer

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A handwritten signature in blue ink that appears to read "Arman Jathaul".

Reviewed by Arman Jathaul,
EMC Project Manager



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Section I. GENERAL TEST INFORMATION

PRODUCT DESCRIPTION

Equipment Under Test (EUT)	Open-Q™ 410 SOM
Manufacturer	Intrinsic Technologies Corp.
Model No.	Open-Q™ 410 SOM
Serial No.	233-0100-120115-00597
Input Power	12V DC
Software and Firmware	Build Number: msm8916_64-userdebug 5.1.1 LMY47V eng.git. 20150610.150037 test-keys

Operational Description

Intrinsic's Open-Q™ 410 SOM is a compact, production ready module based upon Qualcomm's Snapdragon 410 processor. The SOM's small form factor, advanced technology, and extensive range of supported peripherals provide the perfect platform for creating low cost, high performance embedded and mobile devices. The Qualcomm® Snapdragon™ 410 processor is a Quad-core ARM® Cortex™ A53 64-bit 1.2GHz clock speed per core processor designed for both 32-bit and 64-bit operations and its Qualcomm® Adreno™ 306 400MHz GPU supports image sensors up to 13 MP and provides 1080p HD video playback and capture. The SOM features an Qualcomm WCN3620 Wi-Fi + BT Combo chip that references a 19.2000 MHz crystal and provides wireless connectivity for WLAN 802.11b/g/n 2.4GHz and Bluetooth 4.1. An Qualcomm WGR4640 RF front end provides GPS functionality.

Modulation	Transmit Power	Frequency Range	Number of Channels
	dBm	MHz	
Bluetooth – GFSK Modulation	10.94	2402 – 2480	78
Bluetooth – π/4-DQPSK Modulation	10.88	2402 – 2480	79
Bluetooth – 8DPSK Modulation	11.25	2402 – 2480	79
BTLE – GFSK Modulation	2.24	2402 – 2480	40
Wi-Fi 802.11b – CCK 1 Mbps	19.62	2412 – 2462	11
Wi-Fi 802.11g – OFDM 6 Mbps	18.12	2412 – 2462	11
Wi-Fi 802.11n 20 MHz – OFDM MCS 6.5	17.23	2412 – 2462	11
Wi-Fi 802.11n 40 MHz – OFDM MCS 13.5	11.73	2422 – 2452	7

ANTENNA SPECIFICATION

Parameter	Specification
Manufacturer	LSR
Part Number	001-0014
Peak Gain	+2 dBi
Average Gain	>-1.5 dBi
Impedance	50 ohms
Type	Flexible Planar inverted F Antenna (FlexPIFA)
Polarization	Linear
VSWR	<2.0:1, 2400 - 2480
Frequency	2400 - 2480 MHz
Weight	1.13g
Size	40.1mm x 11mm x 2.5mm
Antenna Color	Clear Yellow
Adhesive	3M 100MP
Operating Temp	-40 to +85 C
Connector Height	U.FL: 2.5mm Max.



Open-Q™ 410 SOM (EUT) on carrier board



The EUT's AC power adapter for the tests



FACILITIES AND ACCREDITATION

Main Laboratory Headquarters: Quality Auditing Institute

Headquarters Location/Address: 3980 North Fraser Way, Burnaby, BC V5J Canada

FCC Designation Number: CA9543

Industry Canada Test Site Registration Number (3 m SAC): 21146

American Association for Laboratory Accreditation Certificate Number: 3657.02

ENVIRONMENTAL CONDITIONS

Indoor Temperature: 22-28°C R.H.: 39.7 - 54.4%

TESTING METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4:2014, ANSI C63.10, FCC 47 CFR Part 15 SUBPART B, SUBPART C - 15.247, 15.212 & INDUSTRY CANADA ICES-003 Issue 6, RSS-Gen Issue 4, RSS-247 Issue1. The FCC testing was also done using the FCC KDB 558074 D01 DTS Measurement Guidance v03r05 for the Wi-Fi and BLE transmitters and the FCC Public Notice DA 00-705 Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems

EUT TESTING CONFIGURATION

For the purpose of compliance testing, the transmitter of the EUT was set for continuous operation on various frequencies in modulated modes of operation.

WORST TEST CASE

The worst-case channel is determined as the channel with the highest output power. The highest measured output power was **19.62dBm at 2412 MHz for the Wi-Fi 802.11b mode.**

TEST SETUP

For conducted tests the EUT was installed in a test fixture connected to an EMI receiver and Spectrum Analyzer as well as a host laptop computer during the tests. Test software exercised the radio card. A separate EUT connected to an AC power adapter was used for the radiated tests.

GENERAL TEST PROCEDURES

RF Conducted Emissions

The EUT is placed on a test bench connected directly to an EMI Receiver and Spectrum Analyzer. Conducted emissions are measured in the frequency range 10kHz to 25GHz using CISPR Peak, Quasi-Peak and Average detectors.

AC Mains Conducted Emissions

The EUT is placed on the turntable 0.8m above a ground plane. Conducted emissions are measured in the frequency range 0.15 – 30MHz using CISPR quasi-peak and average detector.

Radiated Emissions

The EUT is placed on the turntable 0.8m above a ground plane 3m away from a receiving antenna. Height of receiving antenna varied from 1m to 4m, its polarity changes from vertical to horizontal. Turntable rotates 360 degrees. Motion of turntable and receiving antenna allows determining position of maximum emission level. Quasi-peak detector applies for measurements of emissions with frequency range of 30 to 1000MHz. and average/peak detector applies otherwise.



TESTING EQUIPMENT

Manufacturer	Model	Description	Serial No.	Last Cal	Cal Due Date
ETS Lindgren	2165	Turntable	00043677	N/A	N/A
ETS Lindgren	2125	Mast	00077487	N/A	N/A
Rohde & Schwarz	ESU40	EMI Receiver	100011	20-Nov-2014	26-Jun-2017
FCC	FCC-LISN-50-25-2	LISN (150kHz-30MHz)	9927	22-Feb-2016	22-Feb-2019
EMCO	6502	Loop Antenna 10kHz-30MHz	2178	21-Aug-2014	21-Aug-2017
Sunol Sciences	JB3	Biconilog Antenna 30MHz-3GHz (Prescan use only)	A120106	24-Sep-2014	24-Sep-2017
ETS Lindgren	3117	Horn Antenna 1GHz-18GHz	00075944	29-Aug-2013	29-Aug-2016
EMCO	3160-09	Horn Antenna 18GHz-26.54GHz	9701-1071	30-Aug-2013	30-Aug-2016
ETS Lindgren	S201	5-meter Semi-Anechoic Chamber	1030	N/A	N/A
A.H. Systems Inc	PAM-1840VH	Preamplifier	152	14-Jun-2013	14-Jun-2016
A.H. Systems Inc	SAC-40G-2.25	RF cable	396	Conditional use	
A.H. Systems Inc	SAC-40G-0.3	RF cable	395	Conditional use	

Measurement Software List

Manufacturer	Model	Version	Description
Rhode & Schwarz	EMC 32	6.20.0	Emissions Pre-scan Test Software

MEASUREMENT UNCERTAINTY

Parameter	Uncertainty
Radiated Emissions, 30MHz-1GHz	± 2.40 dB
Radiated Emissions, 1GHz-40GHz	± 2.48 dB
Radio Frequency	±1.5Hz
Total RF Power Conducted	±1.36 dB
Spurious Emissions, Conducted	±1.36 dB
RF Power Density, Conducted	±1.36 dB
Temperature	±1°C
Humidity	±5 %
DC and low frequency voltages	±3 %



Section II. Requirements for the US (FCC) & Canadian Market(IC):

Part 1 - Antenna Requirements

DATE: May 18, 2016

TEST STANDARD: FCC 47 CFR Part 15.203 and IC RSS-Gen Issue 4 Section 7.1.2

APPLICABLE REGULATIONS: - “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 shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.” ... “the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.”

RESULT: This unit meets this requirement.



Part 2 – RF Power

DATE: April 27, 2016

TEST STANDARD: RSS-247 Issue 1
FCC Subpart C §15.247(a) (2), 15.247(b)

MINIMUM STANDARD: the maximum peak conducted output power shall not exceed 1.0 W (30 dBm).

TEST SETUP: The antenna port of EUT was directly connected to a spectrum analyser for measuring conducted RF power and, the radiated RF power is measured at 3m distance

MEASUREMENT METHOD: As called by the standards described above.

DEVICE DESCRIPTIONS: As described in the above EUT description and set up section.

OBSERVATIONS: The EUT performed as expected.

PERFORMANCE: Complies.

EMISSIONS DATA & PLOT:

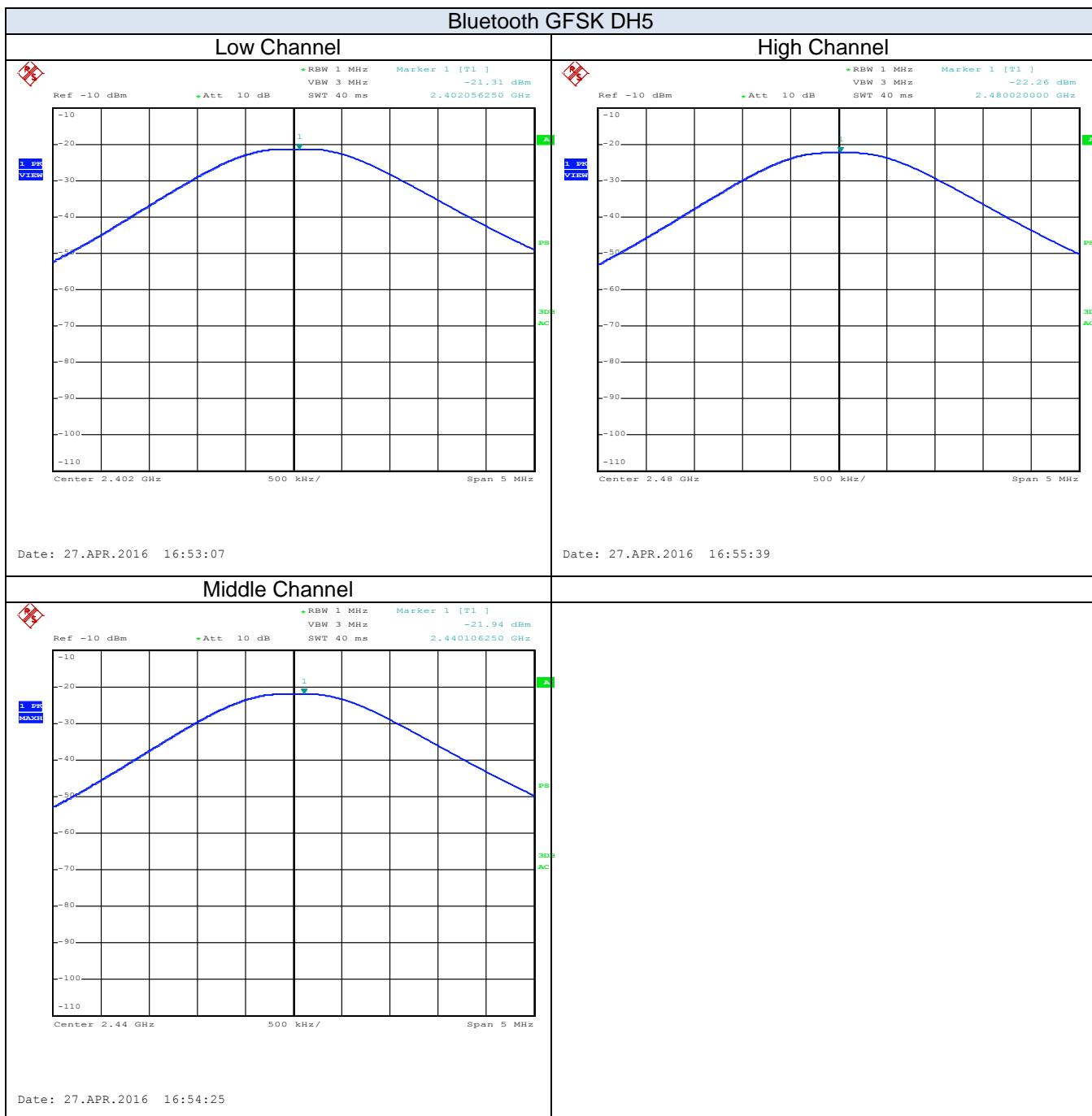
Conducted Peak Output Power

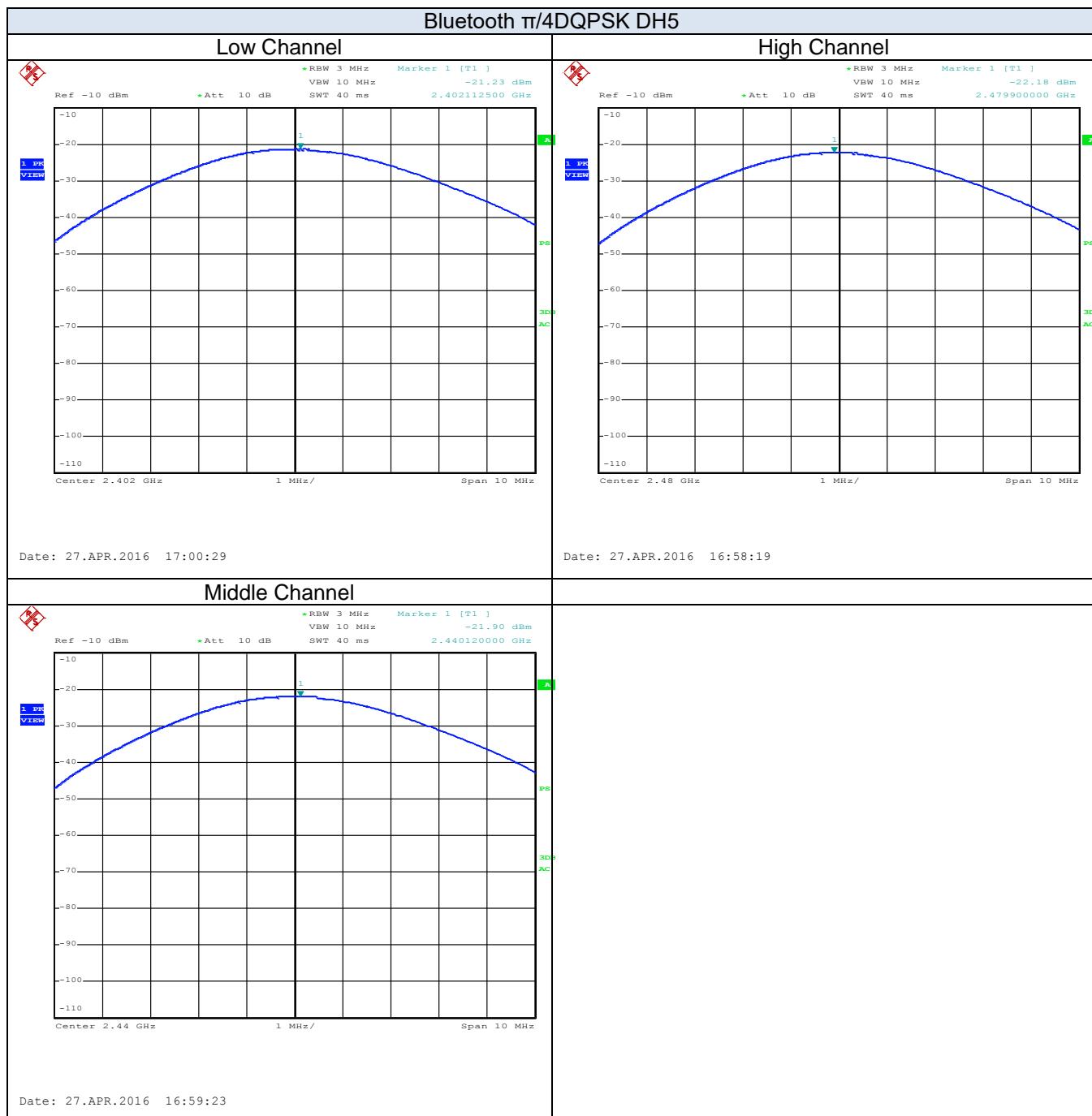
Modulation	Channel	Frequency	Un-corr Power	Correction Factors	Output Power	Result
		MHz	dBm	dB	dBm	
Bluetooth GFSK DH1	Low	2402	-21.05	31.96	10.91	Pass
	Mid	2440	-21.57	32	10.43	Pass
	High	2480	-21.96	31.98	10.02	Pass
Bluetooth GFSK DH3	Low	2402	-21.02	31.96	10.94	Pass
	Mid	2440	-21.66	32	10.34	Pass
	High	2480	-21.99	31.98	9.99	Pass
Bluetooth GFSK DH5	Low	2402	-21.31	31.96	10.65	Pass
	Mid	2440	-21.94	32	10.06	Pass
	High	2480	-22.26	31.98	9.72	Pass
Bluetooth π/4DQPSK DH1	Low	2402	-21.1	31.96	10.86	Pass
	Mid	2440	-21.72	32	10.28	Pass
	High	2480	-22.02	31.98	9.96	Pass
Bluetooth π/4DQPSK DH3	Low	2402	-21.08	31.96	10.88	Pass
	Mid	2440	-21.8	32	10.2	Pass
	High	2480	-22.02	31.98	9.96	Pass
Bluetooth π/4DQPSK DH5	Low	2402	-22.18	31.96	9.78	Pass
	Mid	2440	-21.9	32	10.1	Pass
	High	2480	-21.23	31.98	10.75	Pass
Bluetooth 8DPSK DH1	Low	2402	-20.71	31.96	11.25	Pass
	Mid	2440	-21.38	32	10.62	Pass
	High	2480	-21.72	31.98	10.26	Pass
Bluetooth 8DPSK DH3	Low	2402	-20.77	31.96	11.19	Pass
	Mid	2440	-21.41	32	10.59	Pass
	High	2480	-21.72	31.98	10.26	Pass
Bluetooth 8DPSK DH5	Low	2402	-20.96	31.96	11	Pass
	Mid	2440	-21.63	32	10.37	Pass
	High	2480	-21.93	31.98	10.05	Pass

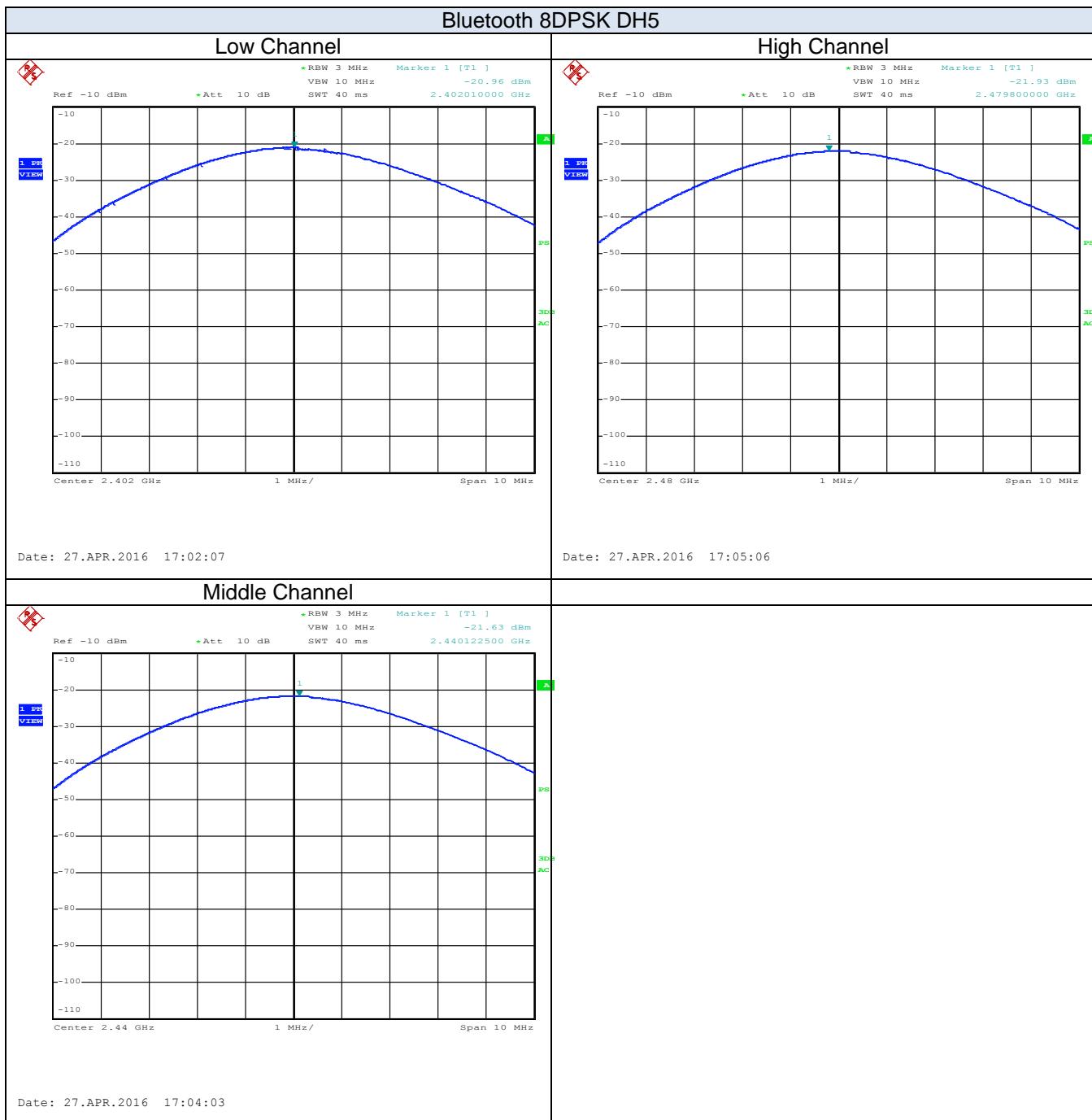


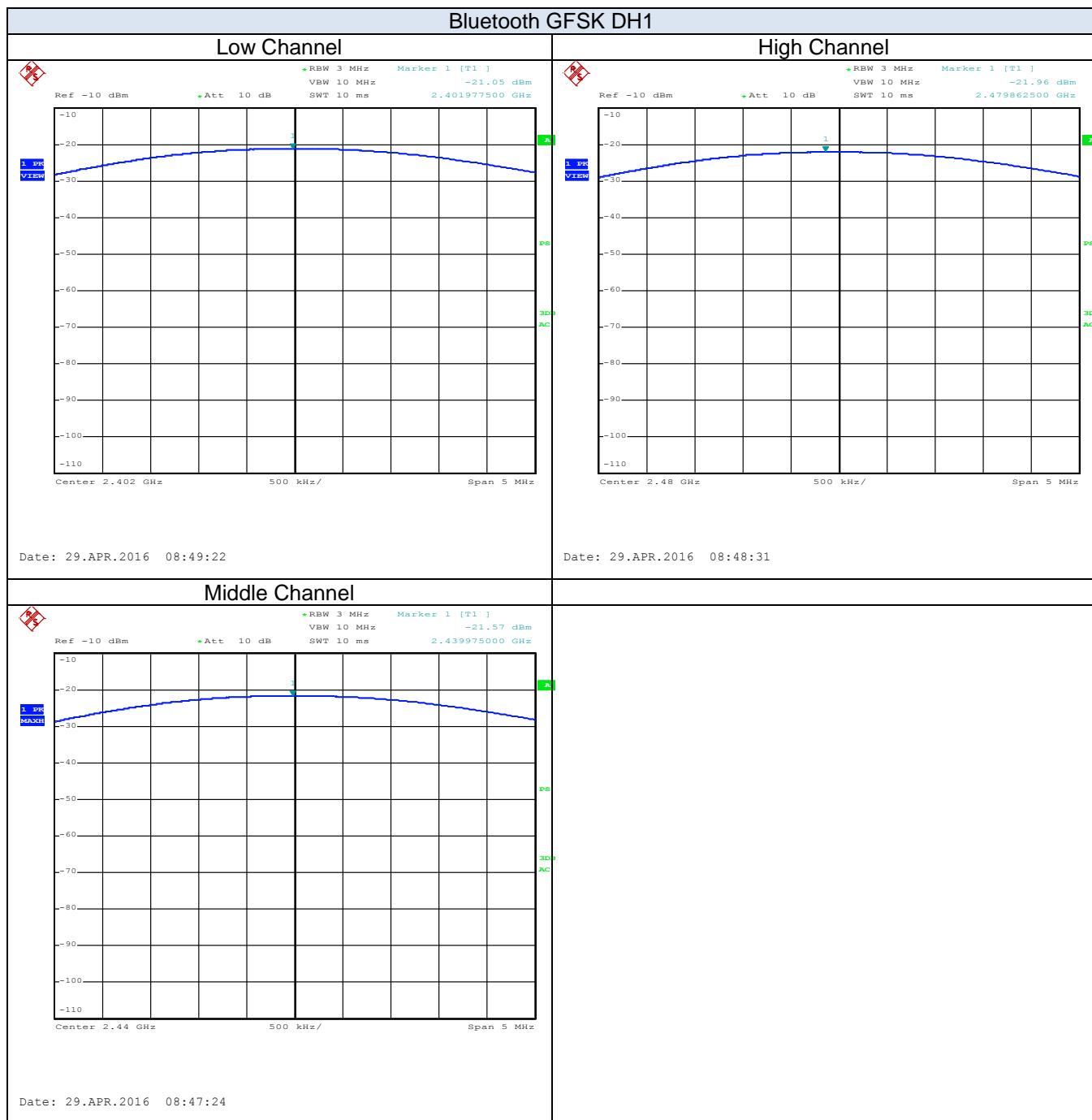
EIRP Output Power

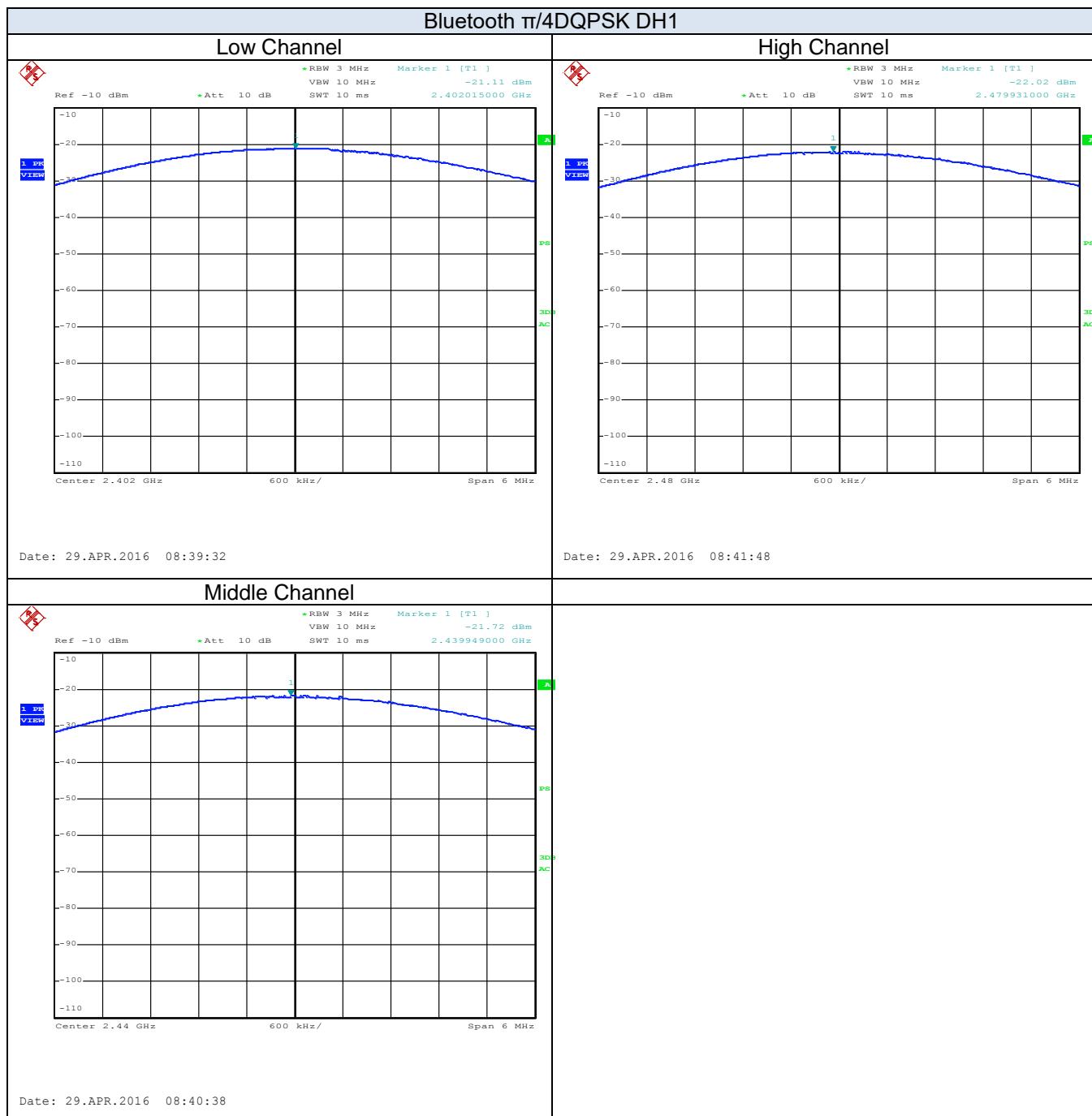
Modulation	Freq.	Peak-Raw	Pol.	Anten. Height	Angle	Gain/Loss	Anten. factor	Peak Corr	EIRP	Result
	MHz	dBuV/m	V/H	cm	deg	dB	dBm	dBuV/m	dBm	
Bluetooth GFSK DH5	2402	70.33	V	100	236.4	3.88	32.5	106.71	11.45	Pass
	2402	66.95	H	236.7	194.3	3.88	32.5	103.33	8.07	Pass
	2440	69.78	V	169.9	211.9	3.46	32.5	105.74	10.48	Pass
	2440	63.83	V	100	289.6	3.46	32.5	99.79	4.53	Pass
	2480	67.57	V	103	254	3.62	32.5	103.69	8.43	Pass
	2480	63.06	H	106	148	3.62	32.5	99.18	3.92	Pass
Bluetooth π/4DQPSK DH5	2402	69.49	V	100	228.7	3.88	32.5	105.87	10.61	Pass
	2402	65.65	H	228.6	191.1	3.88	32.5	102.03	6.77	Pass
	2440	68.97	V	230.7	211.8	3.46	32.5	104.93	9.67	Pass
	2440	63.11	H	100	289.3	3.46	32.5	99.07	3.81	Pass
	2480	66.29	V	163.8	172.2	3.62	32.5	102.41	7.15	Pass
	2480	64.44	H	169.5	335.5	3.62	32.5	100.56	5.3	Pass
Bluetooth Bluetooth 8DPSK DH5	2402	67.6	V	214.3	183.5	3.88	32.5	103.98	8.72	Pass
	2402	63.63	H	100	293.1	3.88	32.5	100.01	4.75	Pass
	2440	67.16	V	149.1	189.7	3.46	32.5	103.12	7.86	Pass
	2440	66.22	H	164.3	4.4	3.46	32.5	102.18	6.92	Pass
	2480	67.77	V	165	219.2	3.62	32.5	103.89	8.63	Pass
	2480	59.52	H	332.3		3.62	32.5	95.64	0.38	Pass

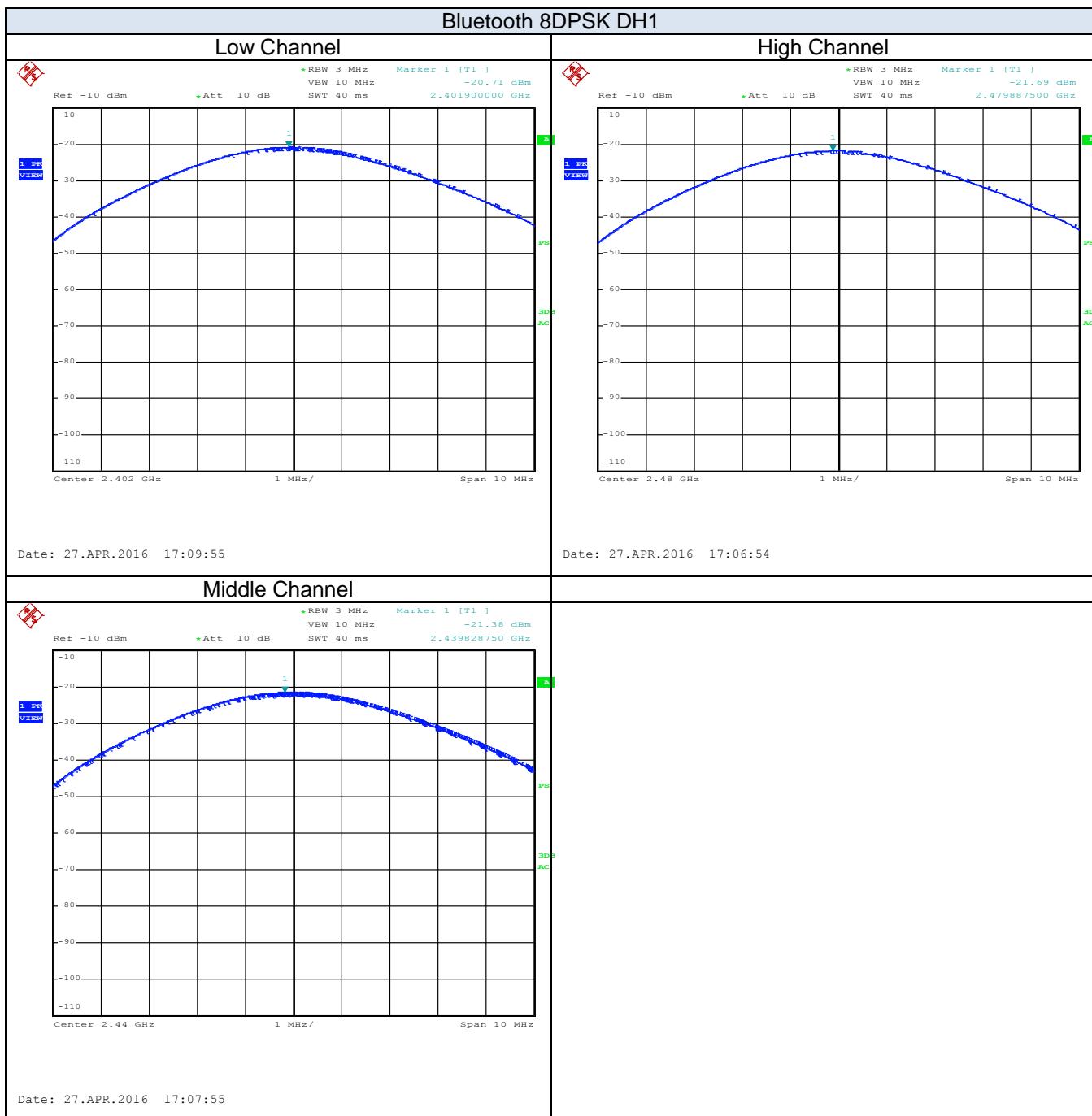


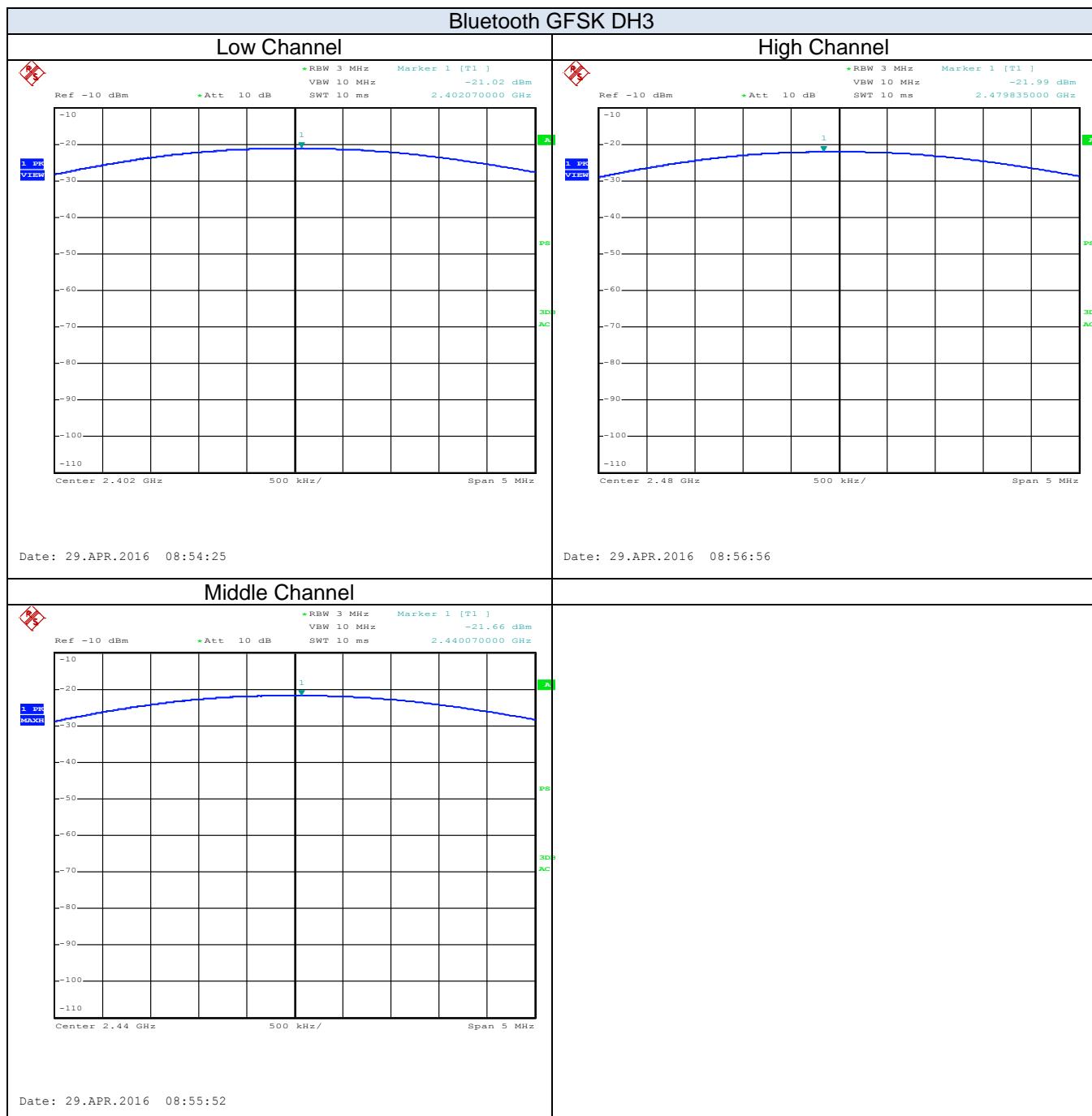


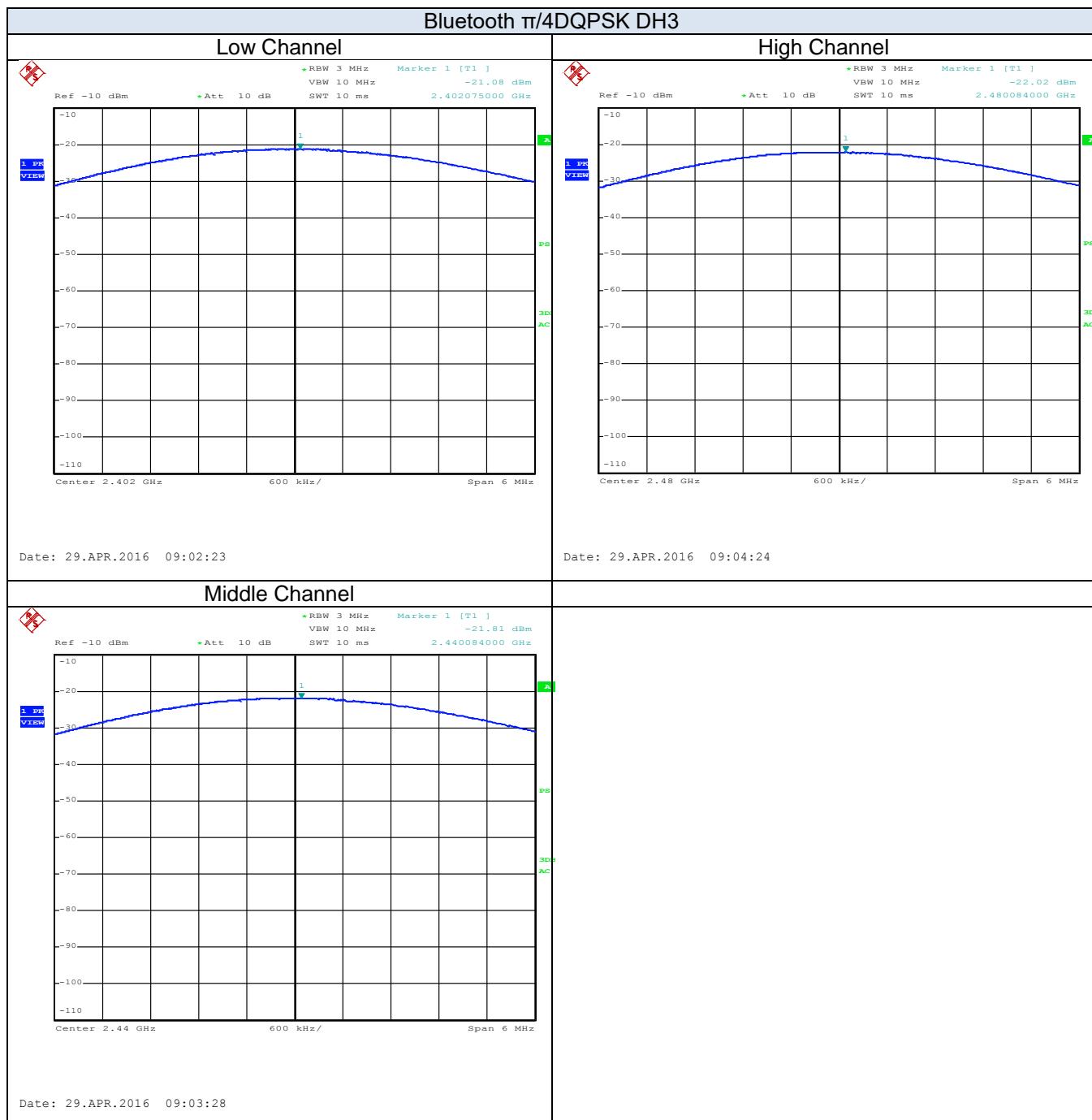


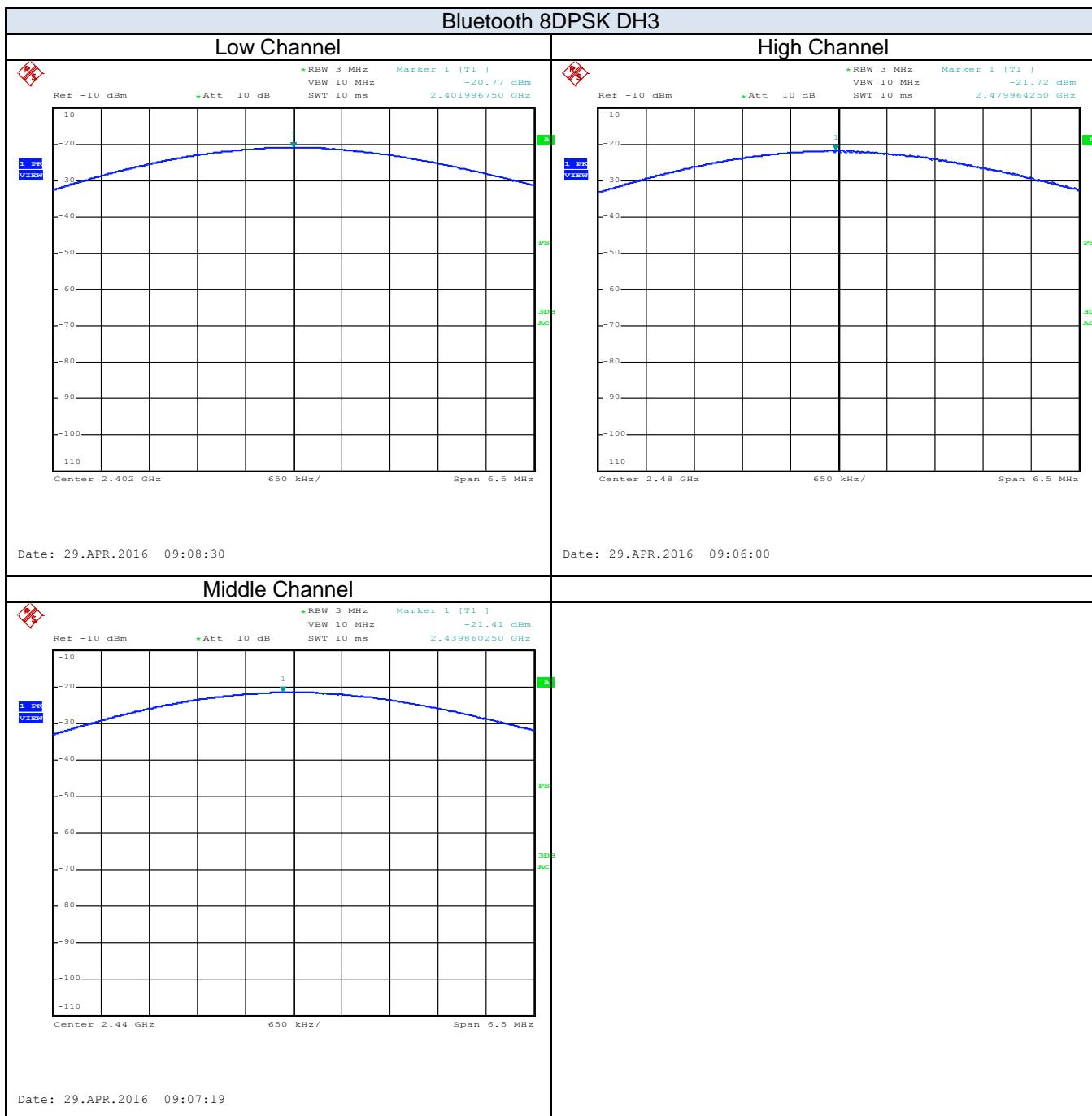


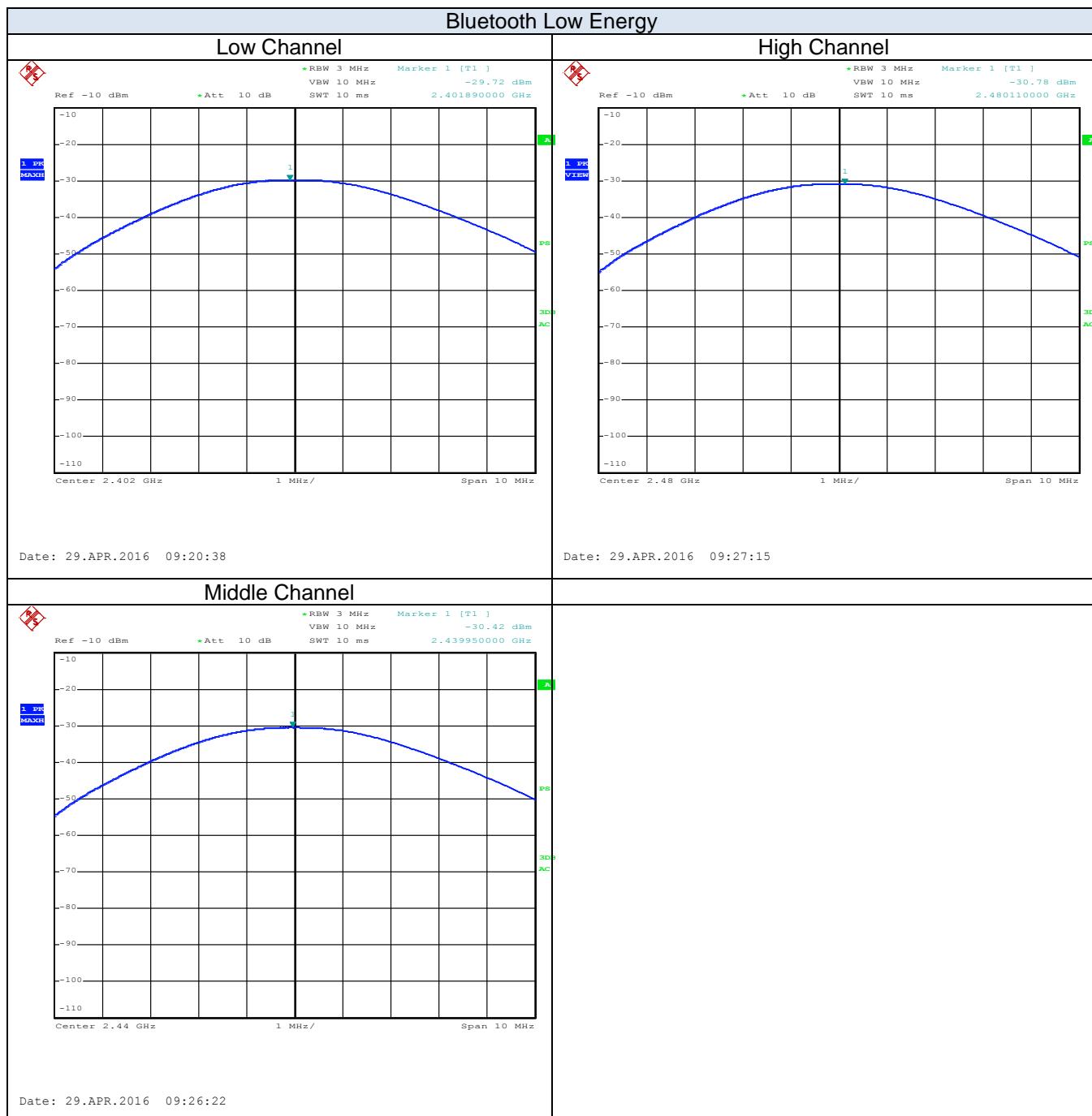














Part 3 - Radiated Spurious Emissions

DATE: April 27, 2016

TEST STANDARD: RSS-247 Issue 1 & RSS-210 Issue 8;

FCC Subpart C §15.209, 15.247 & 15.31

MINIMUM STANDARD: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Limits if emissions fall in restricted bands:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

RESTRICTED BANDS OF OPERATION

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
1.0495-0.505*	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

* - note FCC-specific .

Canada-specific frequency ranges - 3.020-3.026, 5.677-5.683, 121.94-123.0, 149.9-150.05, 162.0125-167.17, 167.72-173.2, 1300-1427, 2483.5-2500, 3500-3600,

(2) Above 38.6 GHz



(b) Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements.

TEST SETUP:

The EUT was tested in our 3 m SAC and was positioned on the center of the turntable. The transmitter was set for continuous transmission. The lowest, middle and highest channels in the 2400-2483.5 MHz band were measured for all radiated emissions 10kHz to 18 GHz. The EUT was pre-scanned in 3 different orthogonal orientations to find out the worst case of radiated emissions, which was shown in the test photos.

This test will be performed separately while unit was transmitting using: Bluetooth – GFSK, π/4-DQPSK and 8DPSK Modulations
BTLE – GFSK Modulation, 802.11b – CCK 1 Mbps, 802.11g – OFDM 6 Mbps, 802.11n 20 MHz – OFDM MCS 6.5, 802.11n 40 MHz – OFDM MCS 13.5
Above 1GHz the RF Absorbers were placed on the Ground Plane.

MEASUREMENT METHOD:

Measurements were made using spectrum analyser and receiver, 200Hz RBW average detector for the frequency range 9-150KHz; 9kHz RBW average detector for the frequency range 150kHz to 30MHz; 120kHz RBW quasi-peak detector for the frequency range 30MHz to 1GHz; 1MHz RBW average detector for the frequency range above 1GHz.

DEVICE DESCRIPTIONS:

As described in the above EUT description and setup section.

MODIFICATIONS:

The EUT did not require any modifications.

PERFORMANCE:

Complies with Standard



EMISSIONS DATA & PLOT:

- Note: 1) The measurements of Radiated Emissions were performed on all of operational modes of the EUT. For the purpose of the report the plots of the worst case were added only.
- 2) Radiated Emissions were verified up to 10th harmonics of fundamental frequency. But all spurious emissions above 18GHz were at least 20dB below the limit line or were undetectable.
- 3) The EUT was also tested when its Wi-Fi and Bluetooth were transmitting simultaneously, However the radiated emissions were still under the limits required by the standard.

Radiated Spurious Emissions, Bluetooth

Modulation	Freq.	Peak Raw	Avg. Raw	Pol.	Anten. Height	Angle	Gain/ Loss	Anten. factor	Peak Corr	Avg. Corr.	Peak Limit	Avg. Limit
	MHz	dBuV/m	dBuV/m	V/H	cm	deg	dB	dBm	dBuV/m	dBuV/m	dBuV/m	dBuV/m
Bluetooth GFSK DH5 Low Ch.	4804	40.25	29.04	V	194.1	137.8	-26.14	34.1	48.21	37	74	54
	4804	40.21	28.05	H	100	73.8	-26.14	34.1	48.17	36.01	74	54
	7206	38.62	26.52	V	100	70	-22.97	35.6	51.25	39.15	<20dBc	<20dBc
	7206	39.14	26.52	H	100	75.9	-22.97	35.6	51.77	39.15	<20dBc	<20dBc
	9608	38.59	26.83	V	100	44.9	-17.87	37.54	58.26	46.5	<20dBc	<20dBc
	9608	38.38	26.41	H	100	354.1	-17.87	37.54	58.05	46.08	<20dBc	<20dBc
	12010	38.76	26.48	V	100	35.4	-15.01	38.6	62.35	50.07	74	54
	12010	38.18	27.67	H	100	77.9	-15.01	38.6	61.77	51.26	74	54
Bluetooth GFSK DH5 Mid Ch.	4880	39.68	26.46	V	100	327.9	-26.15	34.1	47.63	34.41	74	54
	4880	39.47	27.7	H	100	67.9	-26.15	34.1	47.42	35.65	74	54
	7320	37.43	24.96	V	156.1	181.7	-22.53	35.6	50.5	38.03	74	54
	7320	37.77	24.79	H	100	77.7	-22.53	35.6	50.84	37.86	74	54
	9760	37.99	27.11	V	100	287.9	-15.63	37.54	59.9	49.02	<20dBc	<20dBc
	9760	38.81	28.43	H	100	351.7	-15.63	37.54	60.72	50.34	<20dBc	<20dBc
	12200	38.25	26.41	V	100	100.1	-13.08	38.6	63.77	51.93	74	54
	12200	38.48	25.11	H	112.1	43.7	-13.08	38.6	64	50.63	74	54
Bluetooth GFSK DH5 High Ch.	4960	44.75	38.6	V	132	3	-26.93	34.1	51.92	45.77	74	54
	4960	36.17	24.63	H	132	3	-26.93	34.1	43.34	31.8	74	54
	7440	34.86	24.53	V	152	14	-21.43	35.6	49.03	38.7	74	54
	7440	32.1	23.2	V	100	10	-21.43	35.6	46.27	37.37	74	54
	9920	39.98	32.9	V	167	58	-15.66	37.54	61.86	54.78	<20dBc	<20dBc
	9920	42	35.5	H	100	360	-15.66	37.54	63.88	57.38	<20dBc	<20dBc
	12400	32.3	21.92	V	100	13	-13.28	38.6	57.62	47.24	74	54
	12400	31.23	20.1	H	100	26	-13.28	38.6	56.55	45.42	74	54
Bluetooth π/4DQPSK DH5 Low Ch.	4804	39.48	26.64	V	207.7	152.7	-26.14	34.1	47.44	34.6	74	54
	4804	39.22	26.56	H	100	71	-26.14	34.1	47.18	34.52	74	54
	7206	37.4	25.07	V	100	187.6	-22.97	35.6	50.03	37.7	<20dBc	<20dBc
	7206	37.5	24.29	H	100	159	-22.97	35.6	50.13	36.92	<20dBc	<20dBc
	9608	38.38	28.17	V	100	43.7	-17.87	37.54	58.05	47.84	<20dBc	<20dBc
	9608	38.15	27.5	H	100	347.3	-17.87	37.54	57.82	47.17	<20dBc	<20dBc
	12010	38.92	27.08	V	100	72.6	-15.01	38.6	62.51	50.67	74	54
	12010	37.88	25.94	H	100	89.9	-15.01	38.6	61.47	49.53	74	54
Bluetooth π/4DQPSK DH5 Mid Ch.	4880	39.76	25.9	V	100	167.8	-26.15	34.1	47.71	33.85	74	54
	4880	39.19	26.11	H	100	72.7	-26.15	34.1	47.14	34.06	74	54
	7320	36.71	23.8	V	100	208.9	-22.53	35.6	49.78	36.87	74	54
	7320	36.98	24.05	H	100	75.1	-22.53	35.6	50.05	37.12	74	54
	9760	38.62	28.56	V	100	300.1	-15.63	37.54	60.53	50.47	<20dBc	<20dBc
	9760	38.94	29.51	H	100	352.4	-15.63	37.54	60.85	51.42	<20dBc	<20dBc
	12200	38.55	25.63	V	100	72.7	-13.08	38.6	64.07	51.15	74	54
	12200	28.57	16.36	H	100	189.7	-13.08	38.6	54.09	41.88	74	54

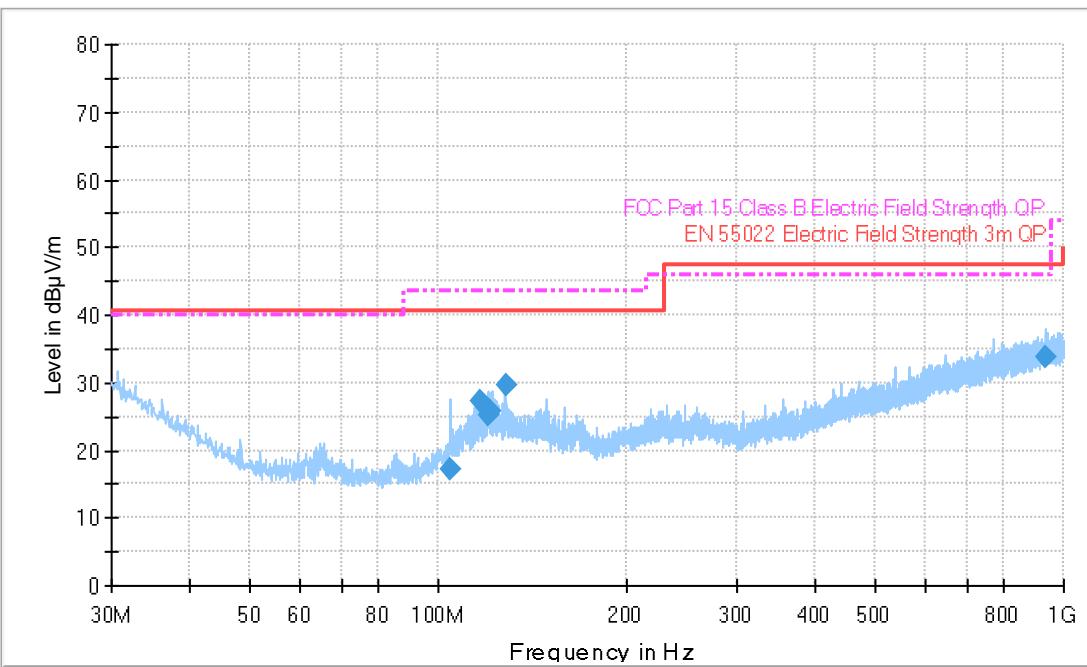


Bluetooth π/4DQPSK DH5 High Ch.	4960	40.1	26.89	V	168.7	327.6	-26.93	34.1	47.27	34.06	74	54
	4960	38.57	26.2	H	113.2	47.5	-26.93	34.1	45.74	33.37	74	54
	7440	38.38	25.2	V	100	191.7	-21.43	35.6	52.55	39.37	74	54
	7440	37.12	23.91	H	100	64.9	-21.43	35.6	51.29	38.08	74	54
	9920	43.43	35.55	V	100	319.7	-15.66	37.54	65.31	57.43	<20dBc	<20dBc
	9920	45.15	38.05	H	100	319.8	-15.66	37.54	67.03	59.93	<20dBc	<20dBc
	12400	38.22	26.26	V	100	187.9	-13.28	38.6	63.54	51.58	74	54
	12400	38.11	24.95	H	100	201.9	-13.28	38.6	63.43	50.27	74	54
	4804	39.11	25.98	V	129	142.1	-26.14	34.1	47.07	33.94	74	54
Bluetooth 8DPSK DH5 Low Ch.	4804	38.54	25.76	H	100	322.7	-26.14	34.1	46.5	33.72	74	54
	7206	38.45	25.37	V	100	198.2	-22.97	35.6	51.08	38	<20dBc	<20dBc
	7206	37.3	24.16	H	100	0	-22.97	35.6	49.93	36.79	<20dBc	<20dBc
	9608	38.99	28.72	V	100	322.1	-17.87	37.54	58.66	48.39	<20dBc	<20dBc
	9608	39.51	29.11	H	100	353.1	-17.87	37.54	59.18	48.78	<20dBc	<20dBc
	12010	38.17	26.4	V	100	203.5	-15.01	38.6	61.76	49.99	74	54
	12010	36.4	23.51	H	100	332.1	-15.01	38.6	59.99	47.1	74	54
Bluetooth 8DPSK DH5 Mid Ch.	4880	39.11	26.04	V	186	9.1	-26.15	34.1	47.06	33.99	74	54
	4880	38.79	25.49	H	100	89.1	-26.15	34.1	46.74	33.44	74	54
	7320	36.86	23.57	V	100	35.6	-22.53	35.6	49.93	36.64	74	54
	7320	36.5	23.51	H	100	348.7	-22.53	35.6	49.57	36.58	74	54
	9760	39.11	29.79	V	100	16.1	-15.63	37.54	61.02	51.7	<20dBc	<20dBc
	9760	39.75	31.16	V	159.5	230.9	-15.63	37.54	61.66	53.07	<20dBc	<20dBc
	12200	37.85	24.86	V	100	251.5	-13.08	38.6	63.37	50.38	74	54
Bluetooth 8DPSK DH5 High Ch.	12200	37.86	24.32	H	100	225.9	-13.08	38.6	63.38	49.84	74	54
	4960	40.08	26.82	V	100	333.7	-26.93	34.1	47.25	33.99	74	54
	4960	39.29	26.38	H	100	52.1	-26.93	34.1	46.46	33.55	74	54
	7440	37.26	23.59	V	100	33.1	-21.43	35.6	51.43	37.76	74	54
	7440	36.43	23.52	H	100	123.1	-21.43	35.6	50.6	37.69	74	54
	9920	43.66	37.41	V	100	343.3	-15.66	37.54	65.54	59.29	<20dBc	<20dBc
	9920	44.74	39.3	H	100	0	-15.66	37.54	66.62	61.18	<20dBc	<20dBc
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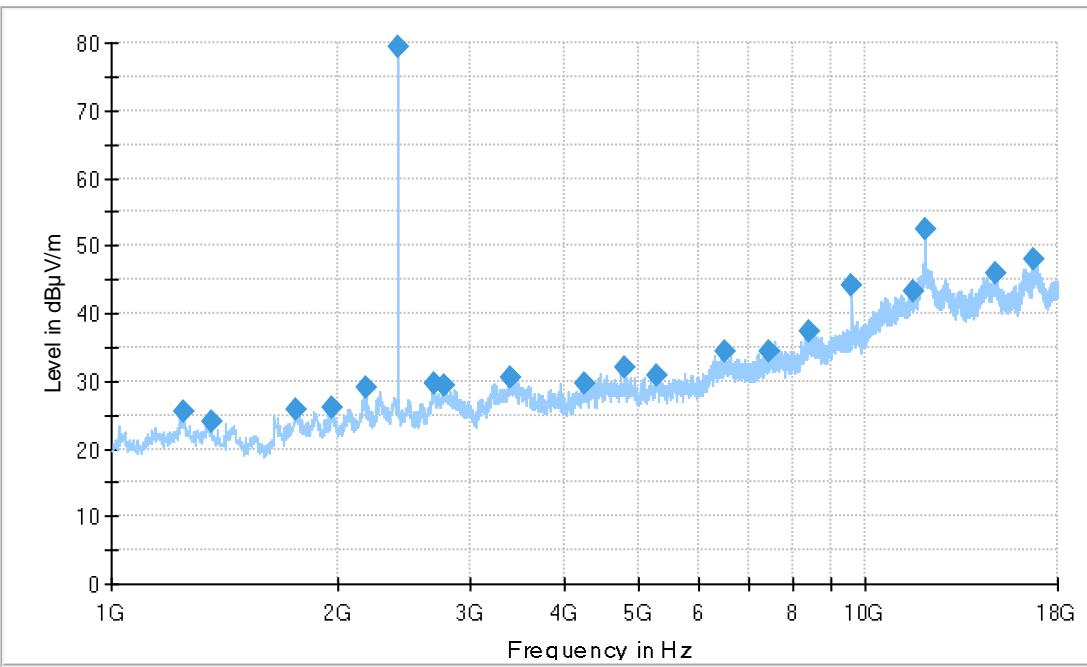
Bluetooth GFSK Low Channel

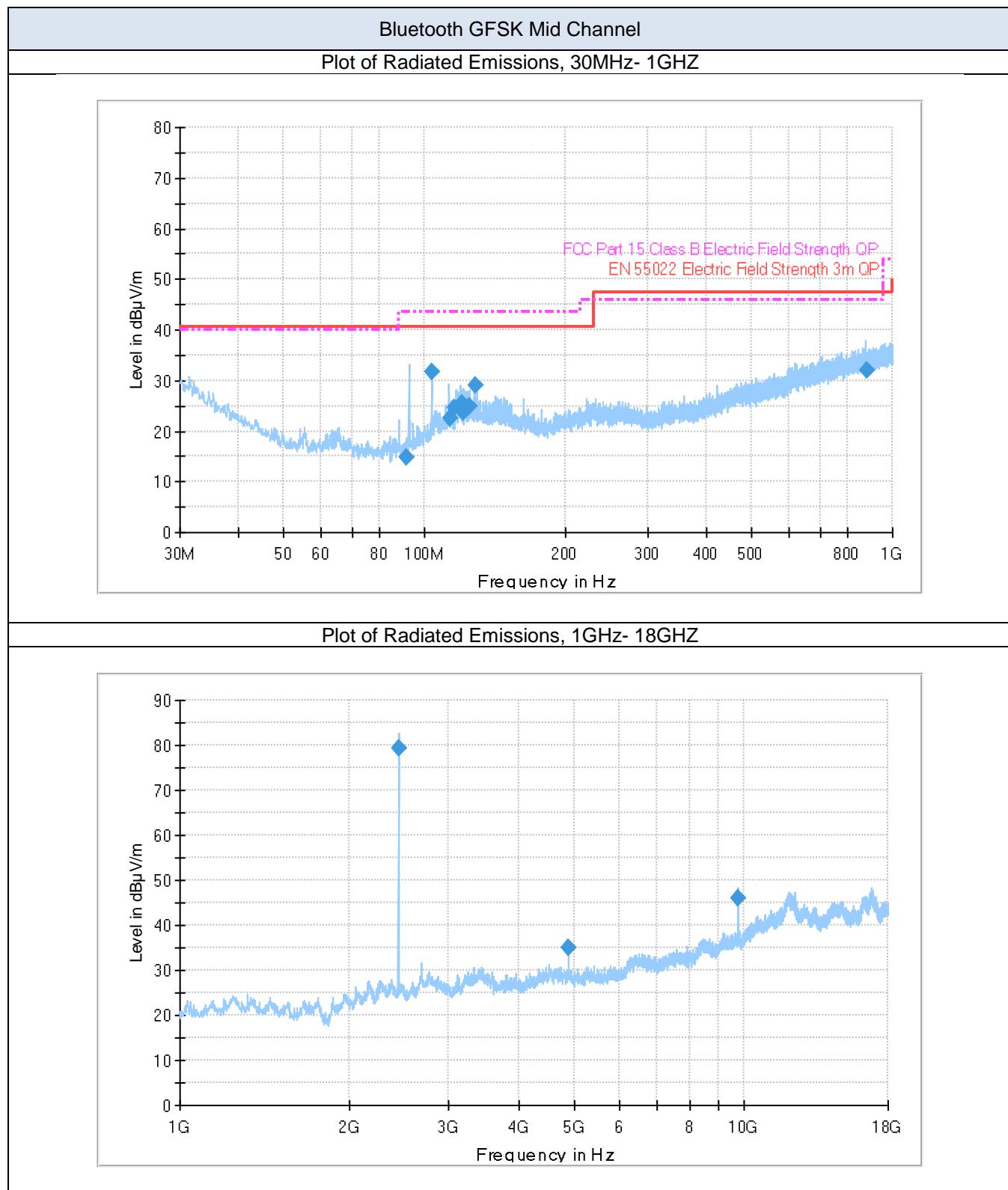
Plot of Radiated Emissions, 30MHz- 1GHz

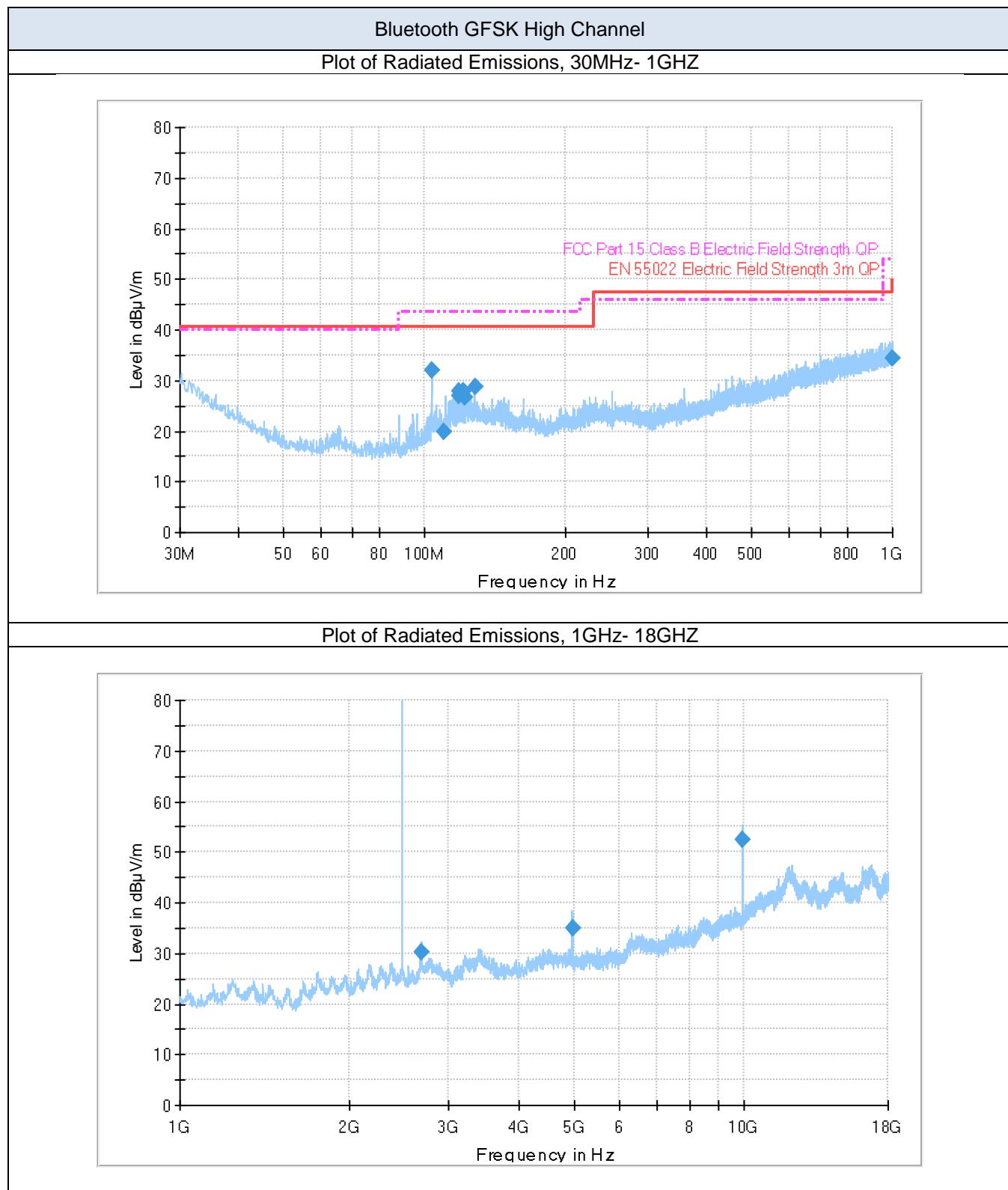


FOC Part 15 Class B Electric Field Strength QP
EN 55022 Electric Field Strength 3m QP

Plot of Radiated Emissions, 1GHz- 18GHz









Part 4 – 20 dB Occupied Bandwidth

DATE: April 25, 2016

TEST STANDARD: RSS-247-Issue 1, RSS-Gen Issue 4; FCC Subpart C §15.247

MINIMUM STANDARD: When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported.

TEST SETUP: The EUT was directly connected to a spectrum analyser.

MEASUREMENT METHOD: Measurements were made using spectrum analyser with 100 kHz RBW, peak detector set on maximum hold using the appropriate antennas, amplifiers and filters.

DEVICE DESCRIPTIONS: As described in the above EUT description and setup section.

OBSERVATIONS: The EUT performed as expected.

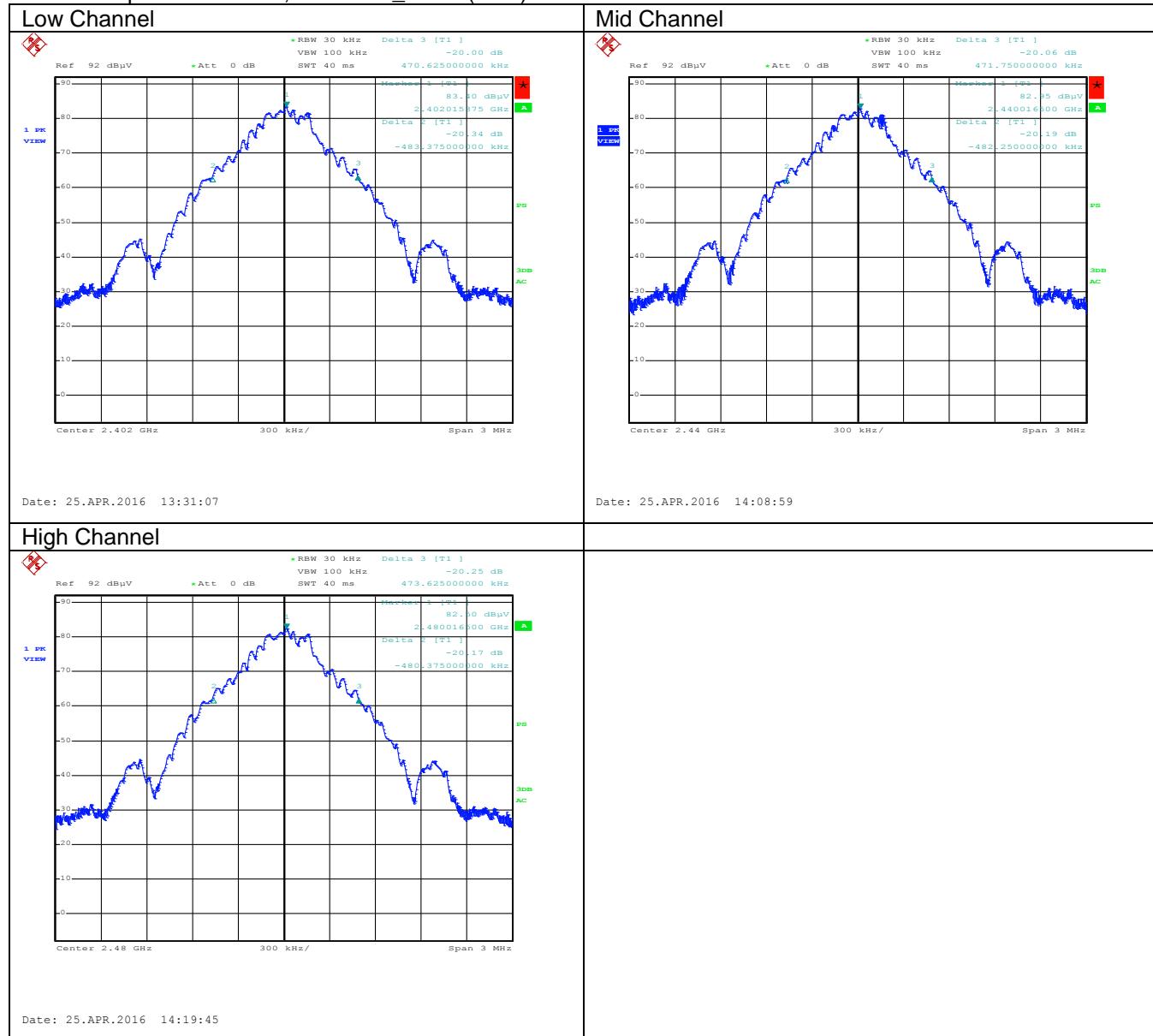
PERFORMANCE: Complies

DATA & PLOT:

Modulation of Bluetooth	Channel	Frequency	Bandwidth	Result
		MHz	kHz	
GFSK(DH1)	Low	2402	936	Complies
	Mid	2440	936	Pass
	High	2480	936	Pass
GFSK(DH3)	Low	2402	954	Pass
	Mid	2440	954	Pass
	High	2480	954	Pass
GFSK(DH5)	Low	2402	954	Pass
	Mid	2440	954	Pass
	High	2480	954	Pass
DPSK(DH1)	Low	2402	1260	Pass
	Mid	2440	1260	Pass
	High	2480	1260	Pass
DPSK(DH3)	Low	2402	1284	Pass
	Mid	2440	1286.3	Pass
	High	2480	1284	Pass
DPSK(DH5)	Low	2402	1290	Pass
	Mid	2440	1290	Pass
	High	2480	1288.1	Pass
8DPSK(DH1)	Low	2402	1224	Pass
	Mid	2440	1224	Pass
	High	2480	1224	Pass
8DPSK(DH3)	Low	2402	1290	Pass
	Mid	2440	1290	Pass
	High	2480	1290	Pass
8DPSK(DH5)	Low	2402	1290	Pass
	Mid	2440	1290	Pass
	High	2480	1290	Pass

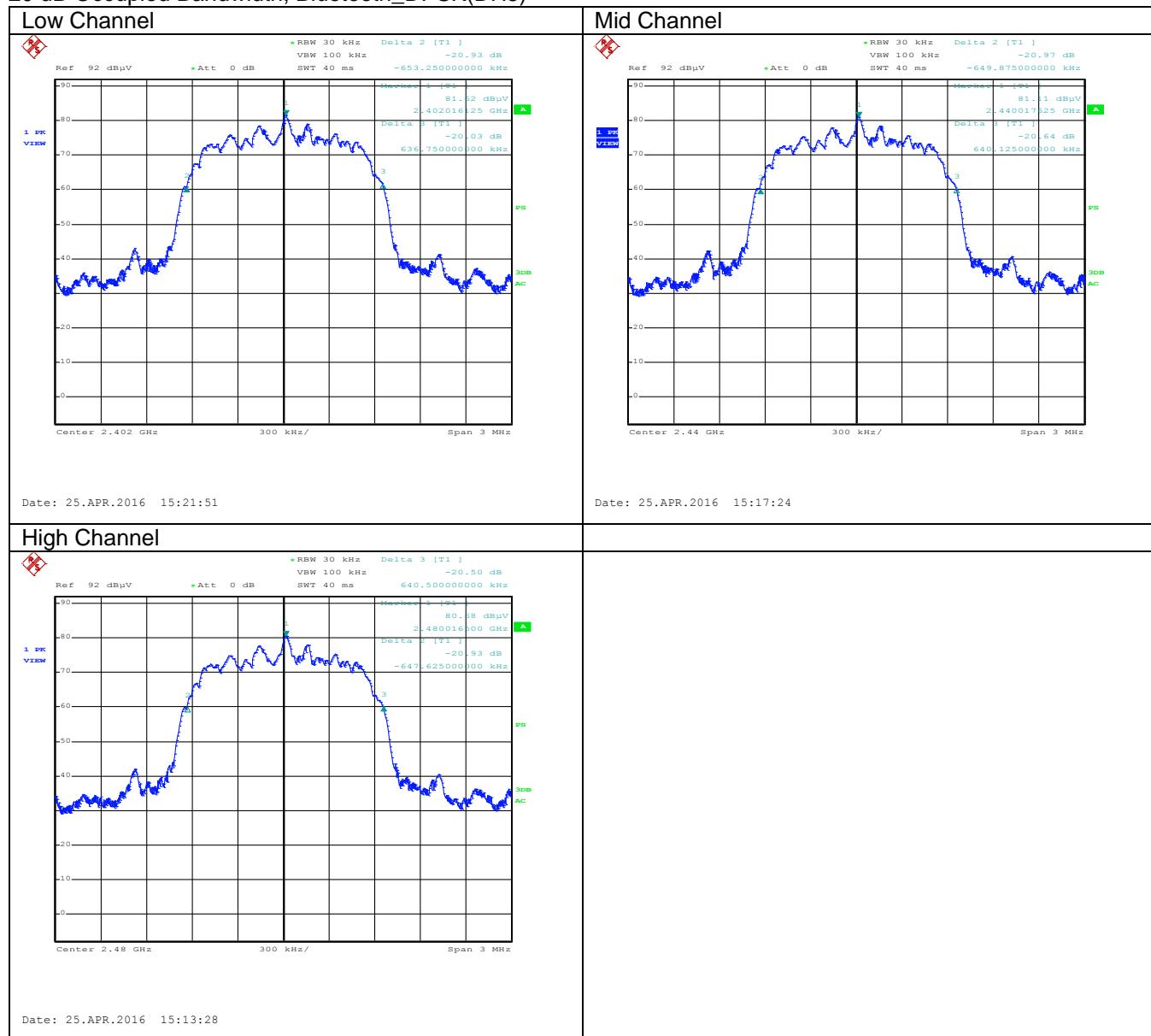


20 dB Occupied Bandwidth, Bluetooth_GFSK(DH5)



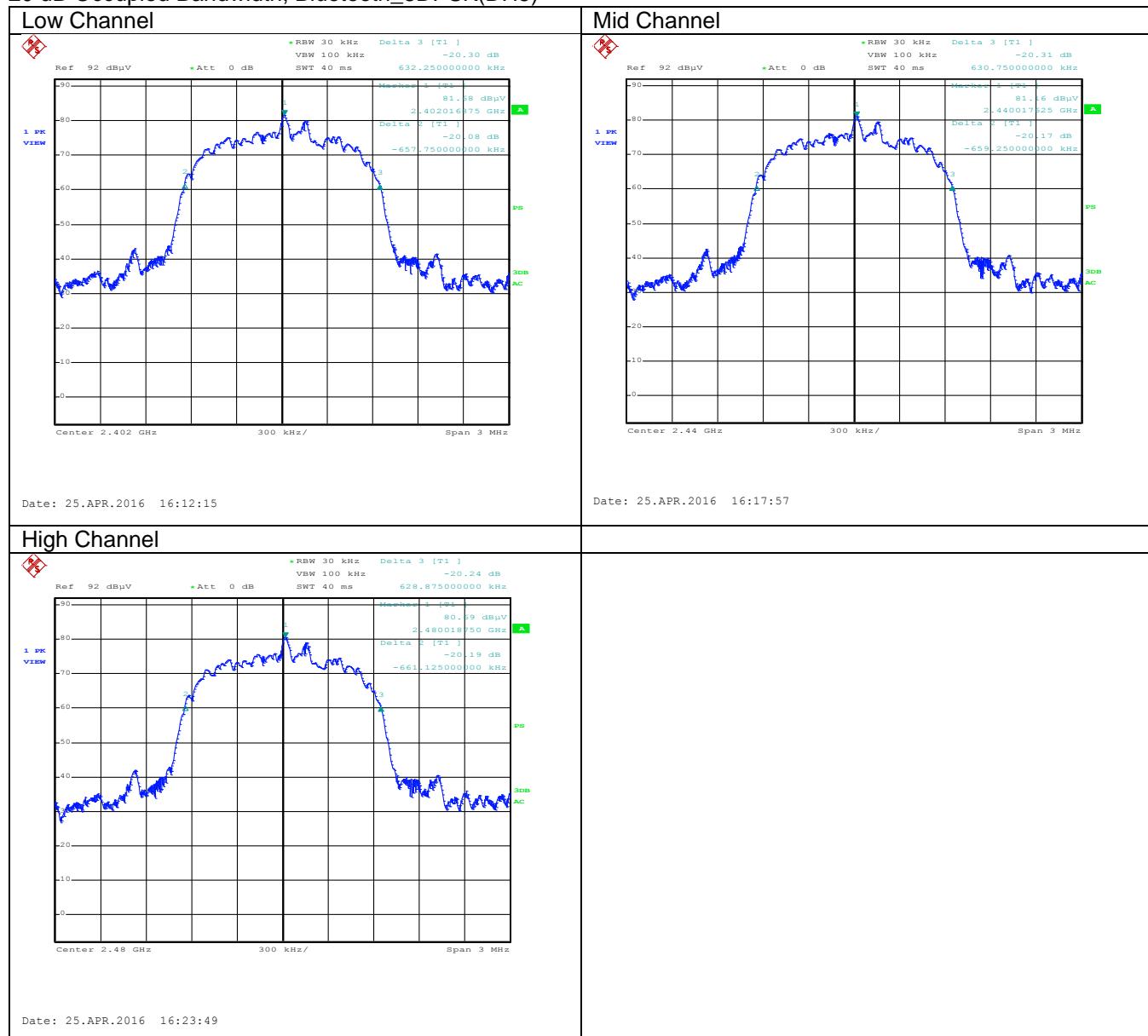


20 dB Occupied Bandwidth, Bluetooth_DPSK(DH5)



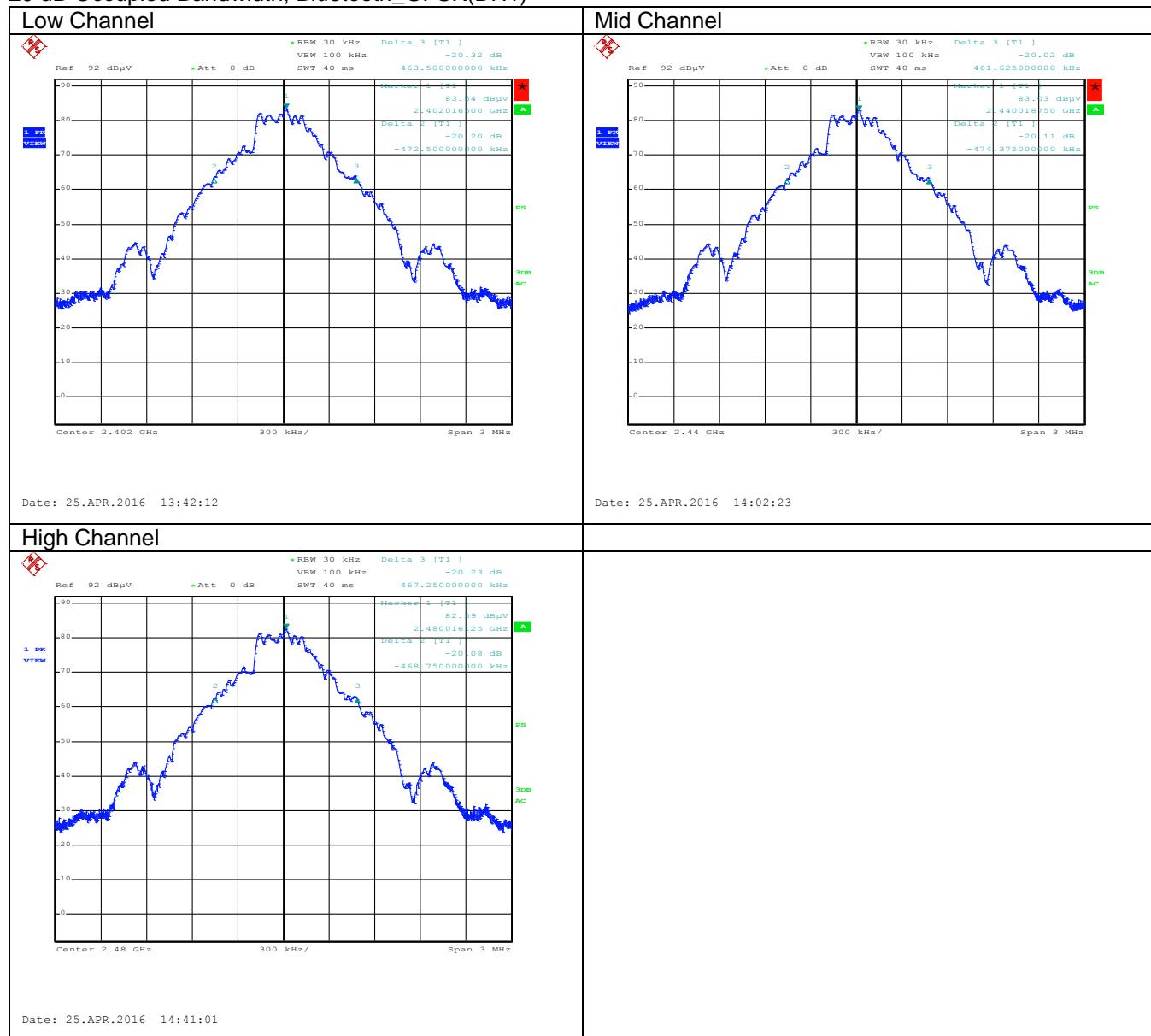


20 dB Occupied Bandwidth, Bluetooth_8DPSK(DH5)



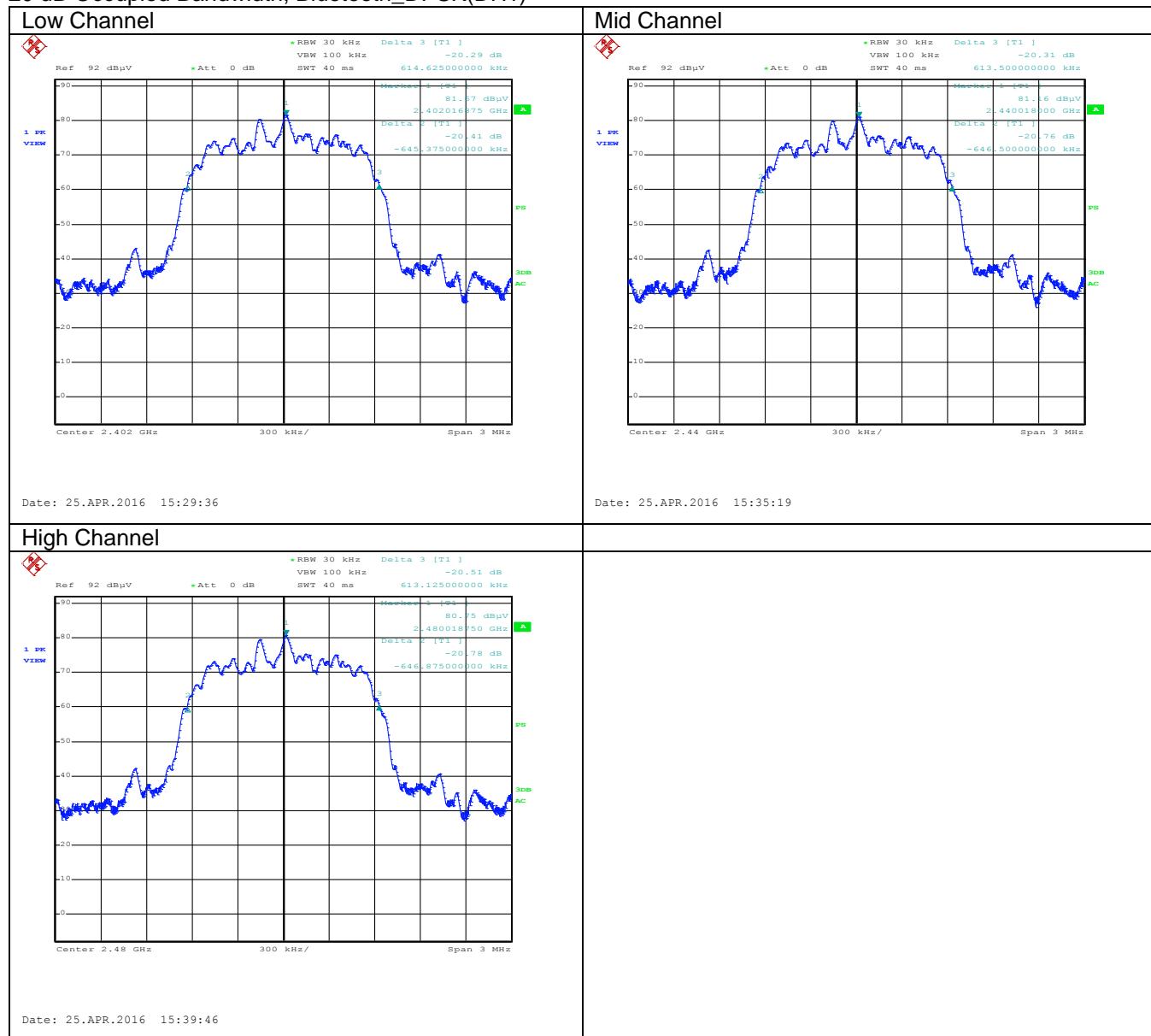


20 dB Occupied Bandwidth, Bluetooth_GFSK(DH1)



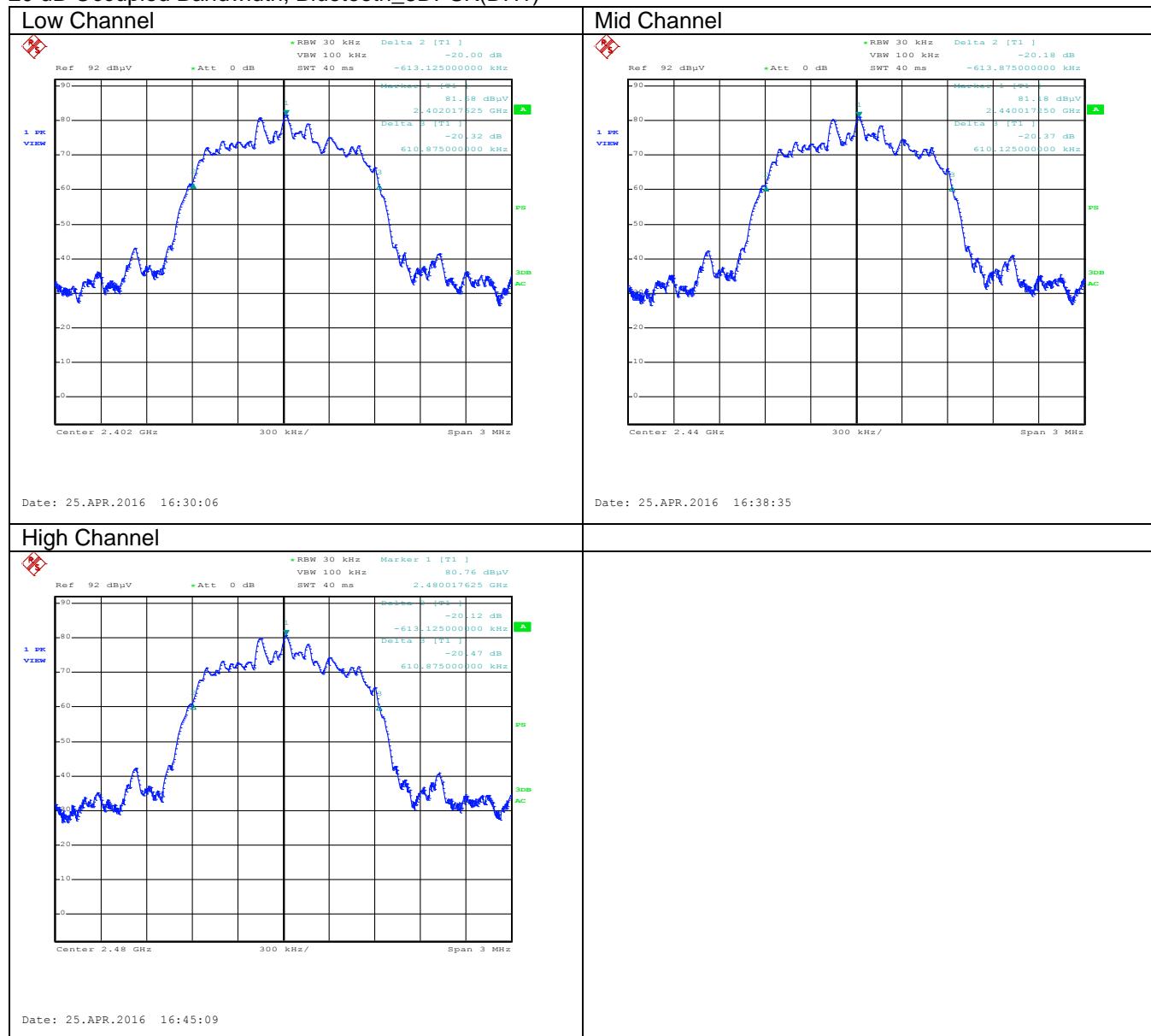


20 dB Occupied Bandwidth, Bluetooth_DPSK(DH1)



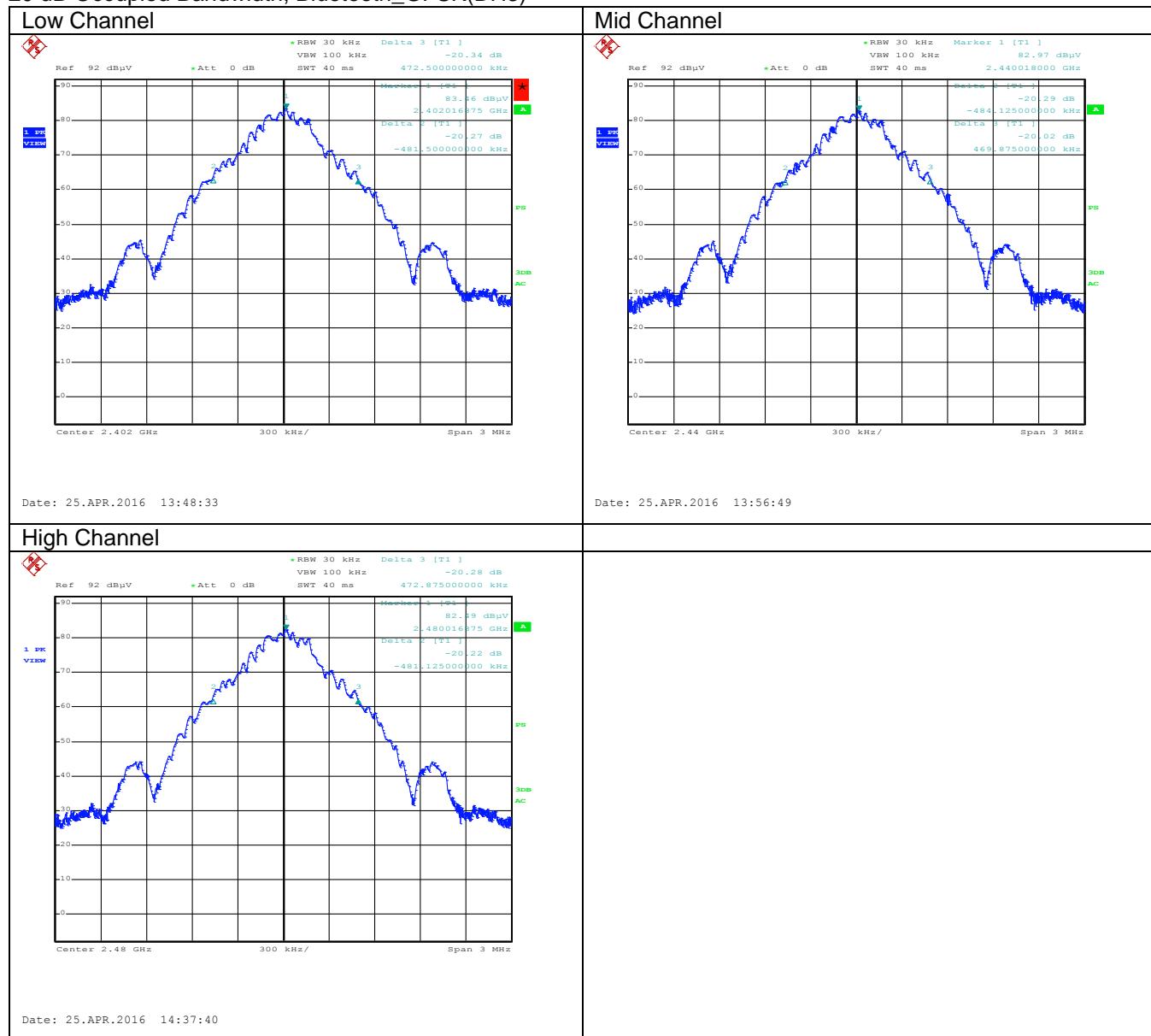


20 dB Occupied Bandwidth, Bluetooth_8DPSK(DH1)



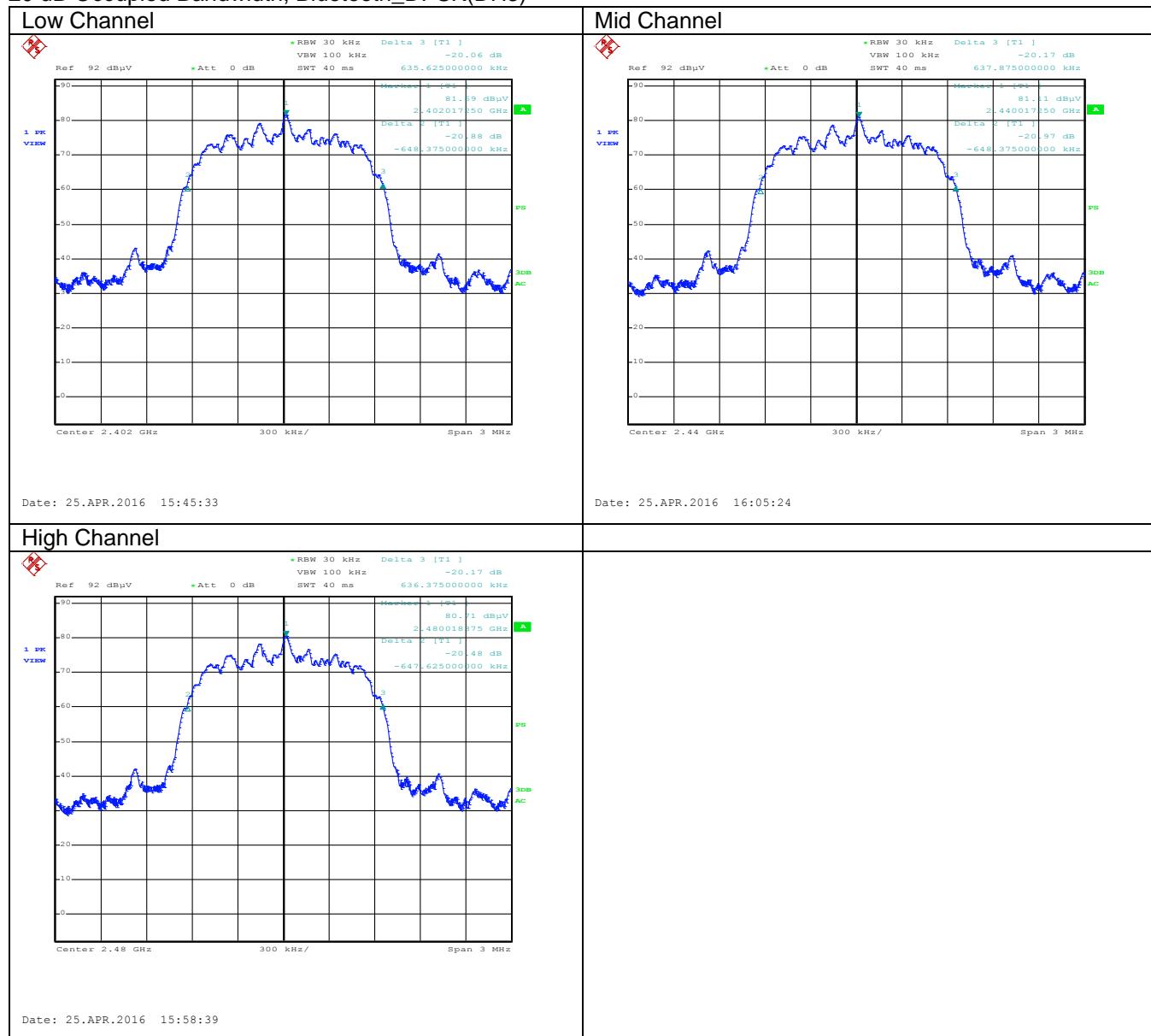


20 dB Occupied Bandwidth, Bluetooth_GFSK(DH3)



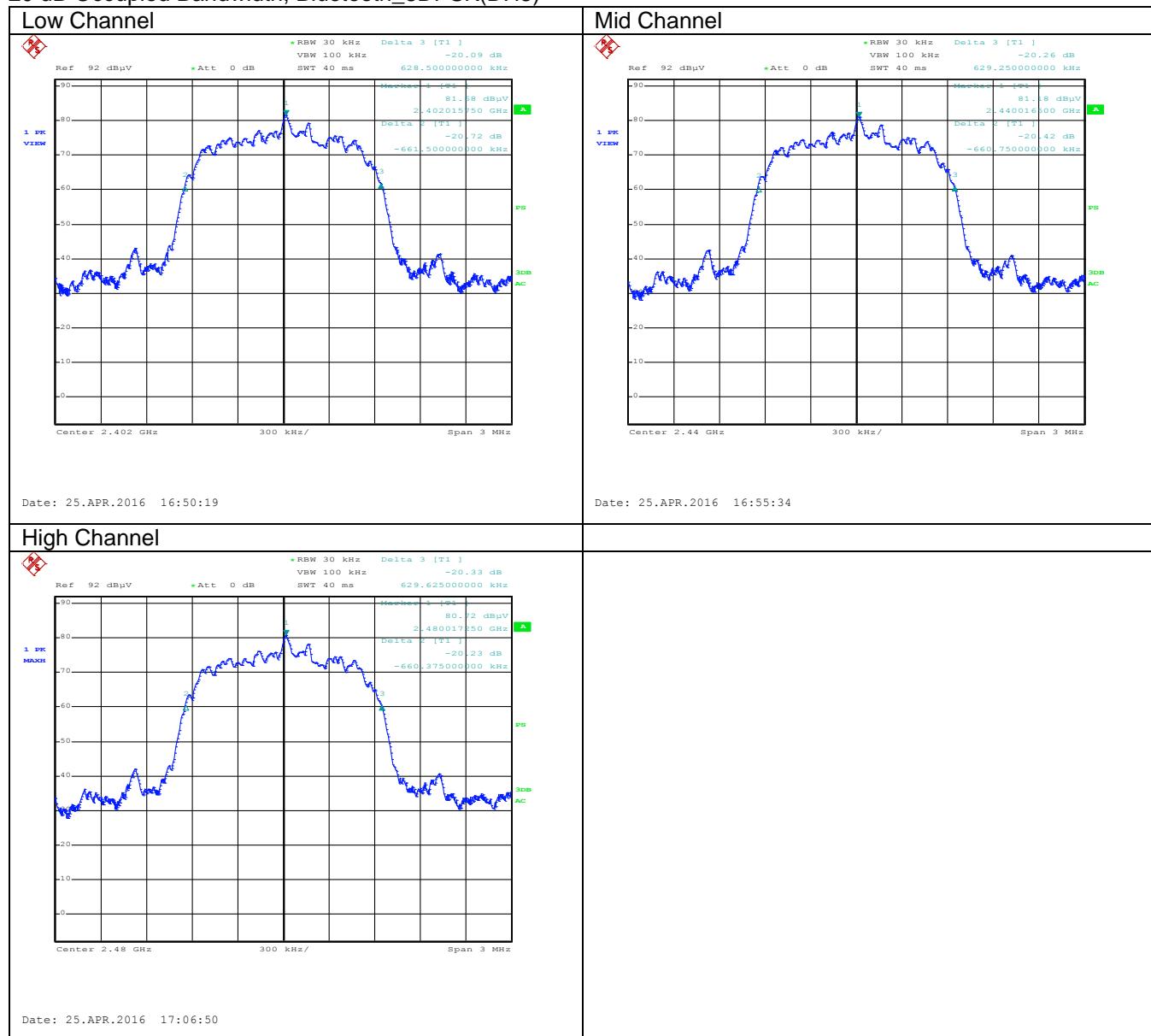


20 dB Occupied Bandwidth, Bluetooth_DPSK(DH3)





20 dB Occupied Bandwidth, Bluetooth_8DPSK(DH3)





Part 5 – 99% Bandwidth

DATE: April 25, 2016

TEST STANDARD: RSS-210 Issue 8, RSS-Gen Issue 5

MINIMUM STANDARD: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.
The bandwidth shall fall completely within the frequency range specified by the standard.

TEST SETUP: The antenna port of EUT was directly connected to a spectrum analyser.

MODIFICATIONS: No modification is required to comply for this test.

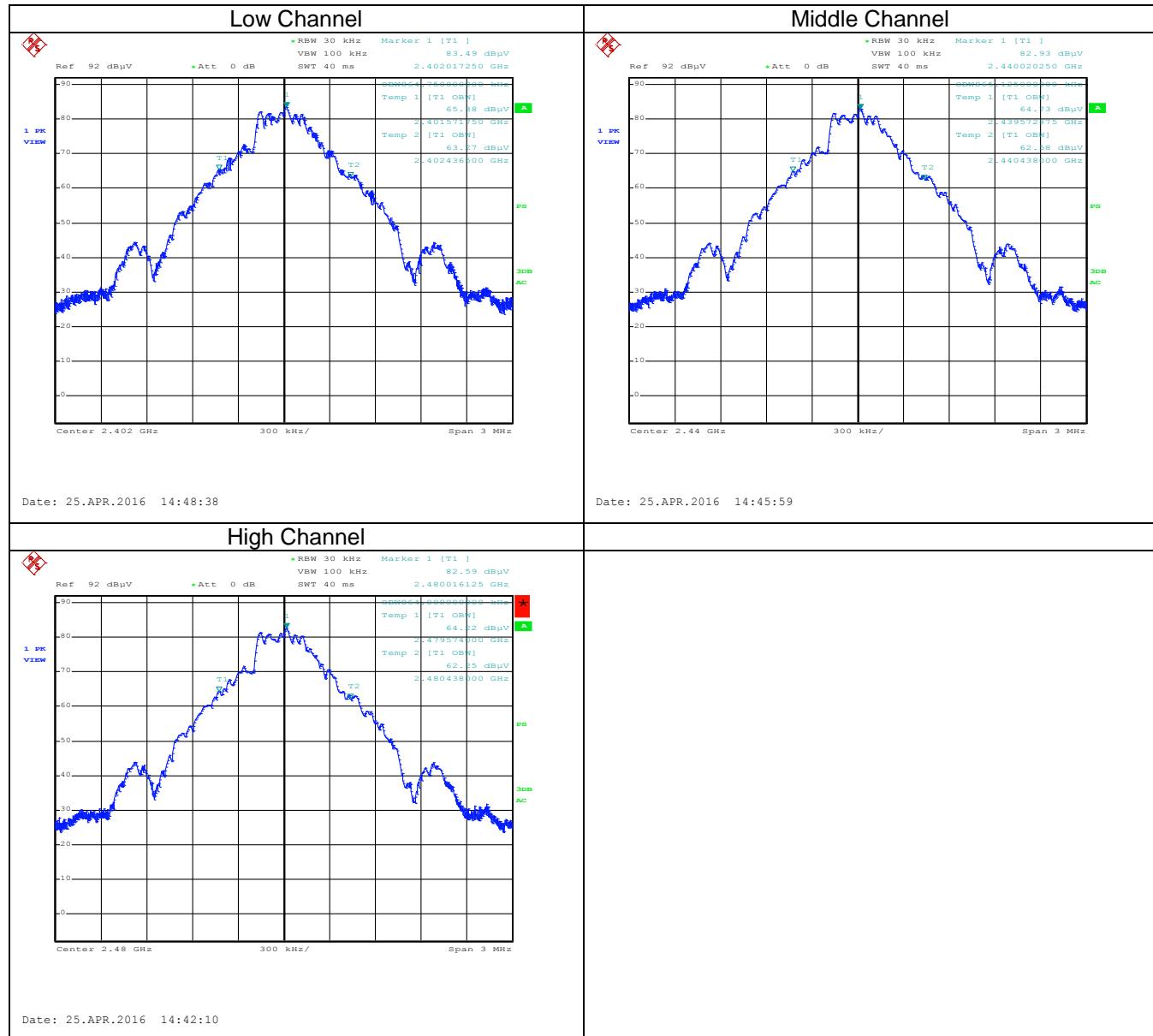
PERFORMANCE: Complies with standard

DATA & PLOT:

Modulation	Channel	Frequency	99% BW	Result
		MHz	MHz	
Bluetooth GFSK(DH5)	Low	2402	0.903	Complies
	Mid	2440	0.903	Complies
	High	2480	0.903	Complies
Bluetooth DPSK(DH5)	Low	2402	1.173	Complies
	Mid	2440	1.173	Complies
	High	2480	1.173	Complies
Bluetooth 8DPSK(DH5)	Low	2402	1.173	Complies
	Mid	2440	1.174	Complies
	High	2480	1.175	Complies
Bluetooth GFSK(DH1)	Low	2402	0.865	Complies
	Mid	2440	0.865	Complies
	High	2480	0.864	Complies
Bluetooth DPSK(DH1)	Low	2402	1.163	Complies
	Mid	2440	1.163	Complies
	High	2480	1.163	Complies
Bluetooth 8DPSK(DH1)	Low	2402	1.149	Complies
	Mid	2440	1.149	Complies
	High	2480	1.149	Complies
Bluetooth GFSK(DH3)	Low	2402	0.909	Complies
	Mid	2440	0.908	Complies
	High	2480	0.908	Complies
Bluetooth DPSK(DH3)	Low	2402	1.178	Complies
	Mid	2440	1.177	Complies
	High	2480	1.175	Complies
Bluetooth 8DPSK(DH3)	Low	2402	1.176	Complies
	Mid	2440	1.175	Complies
	High	2480	1.174	Complies

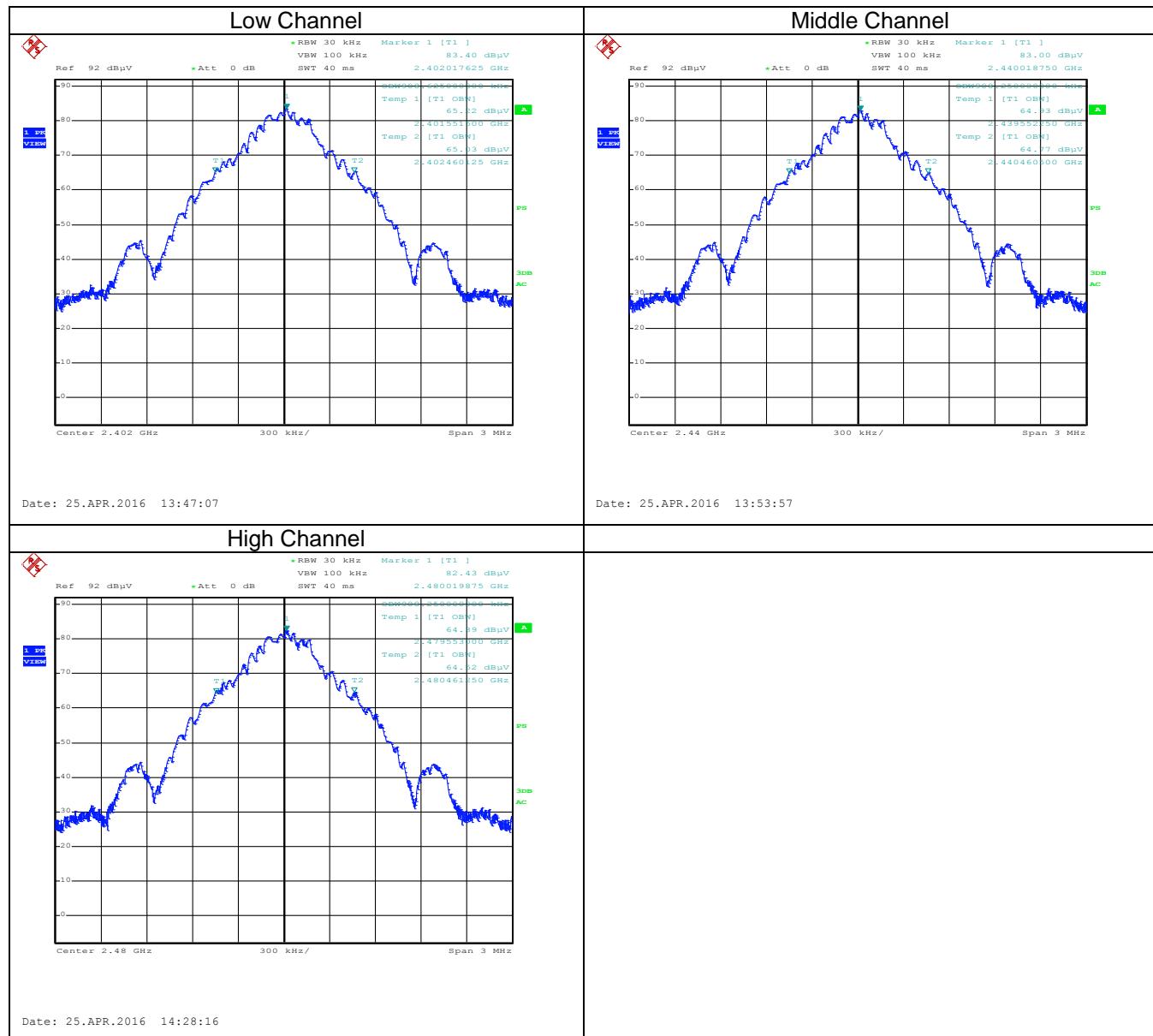


99% Bandwidth_Bluetooth_GFSK-DH1



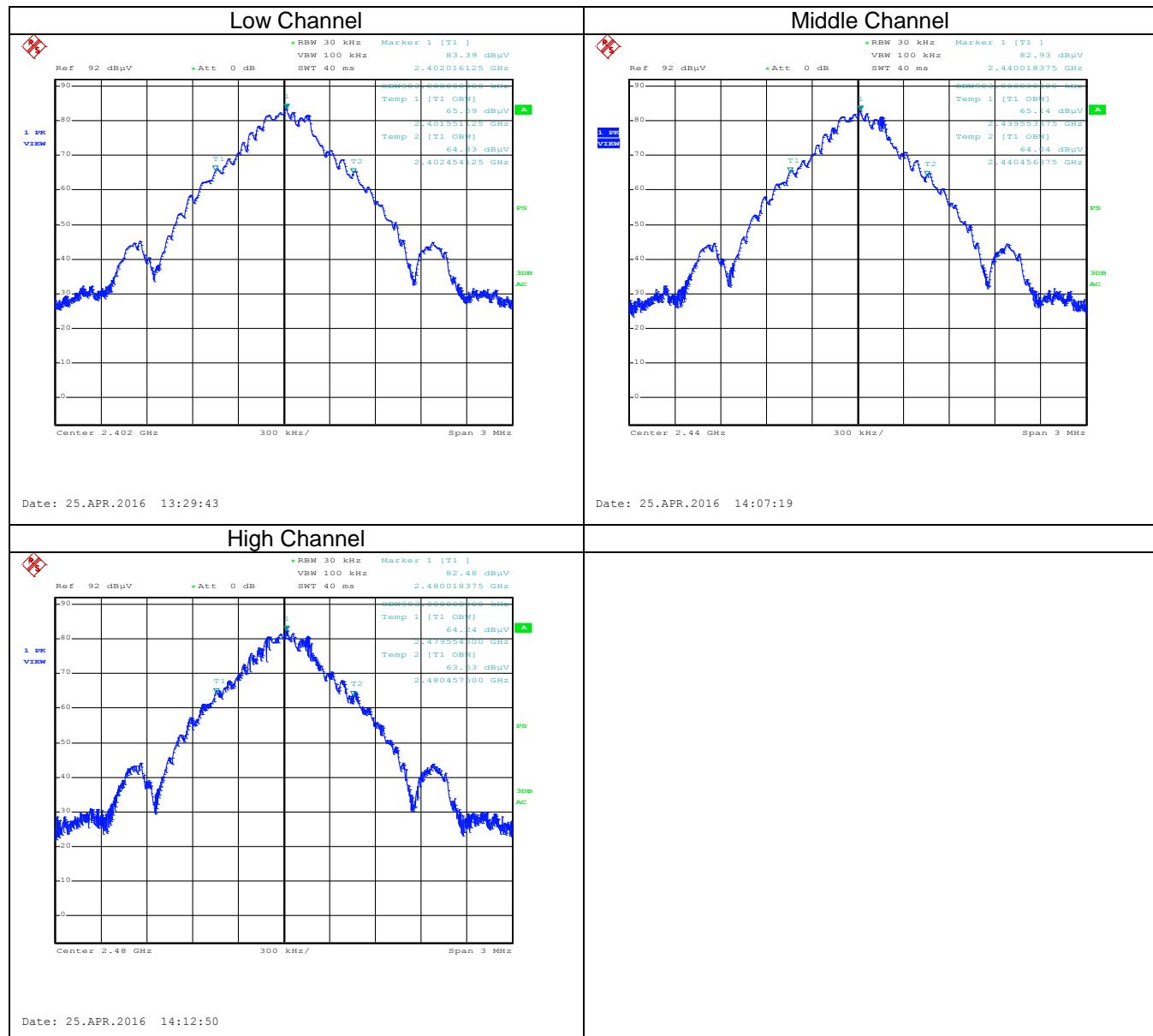


99% Bandwidth_Bluetooth_GFSK-DH3



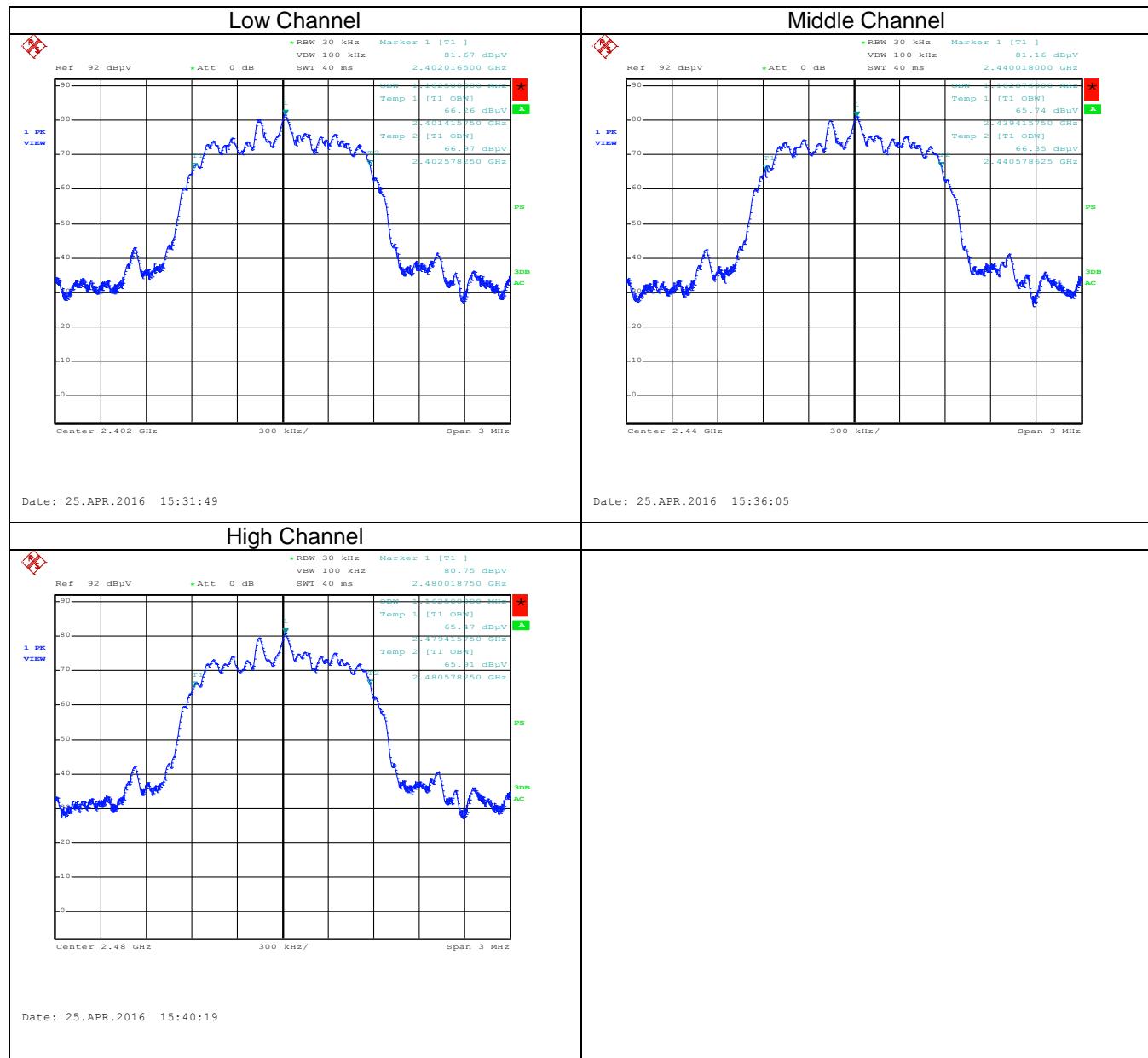


99% Bandwidth_Bluetooth_GFSK-DH5



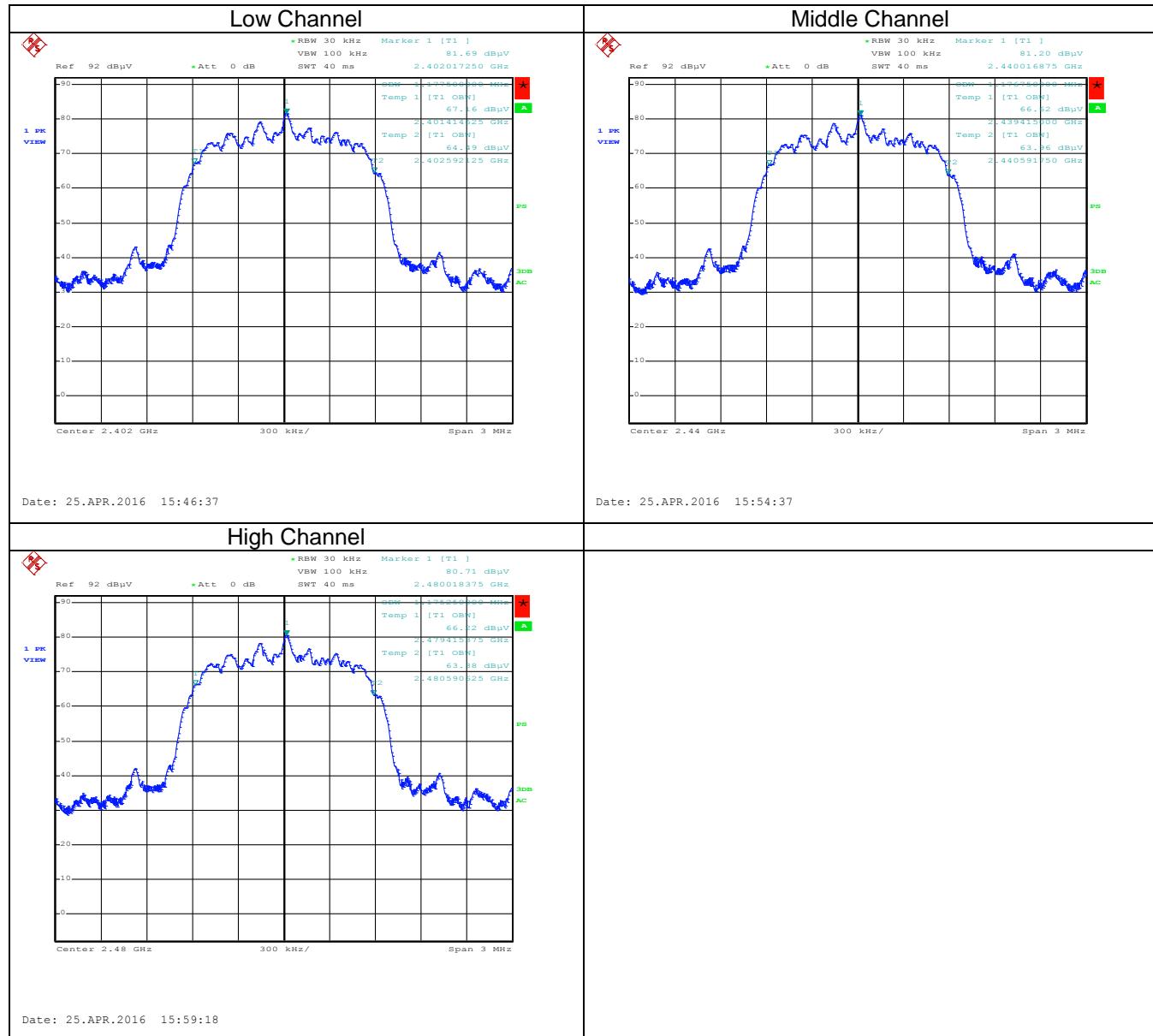


99% Bandwidth_Bluetooth_DPSK-DH1



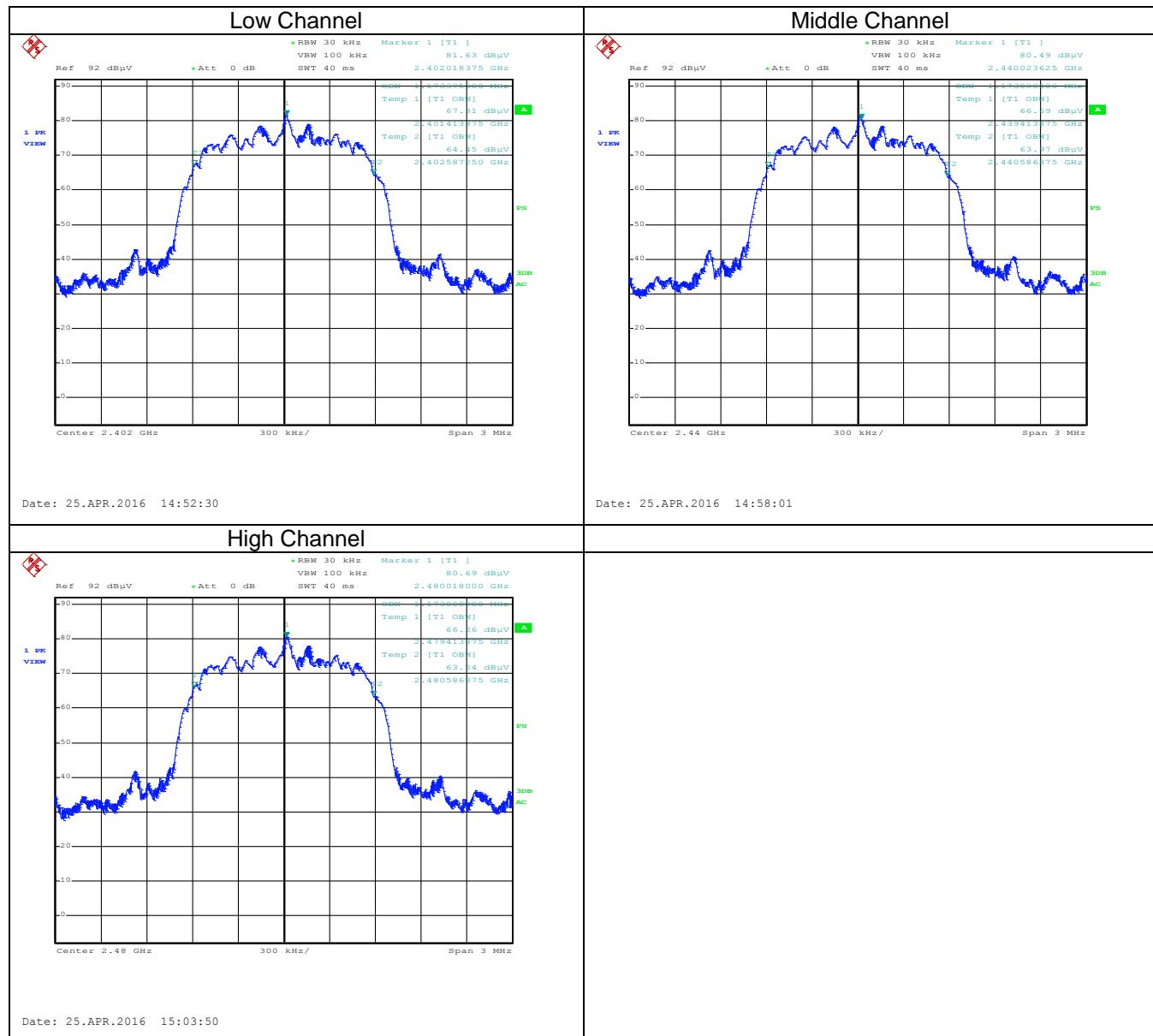


99% Bandwidth Bluetooth_ DPSK -DH3



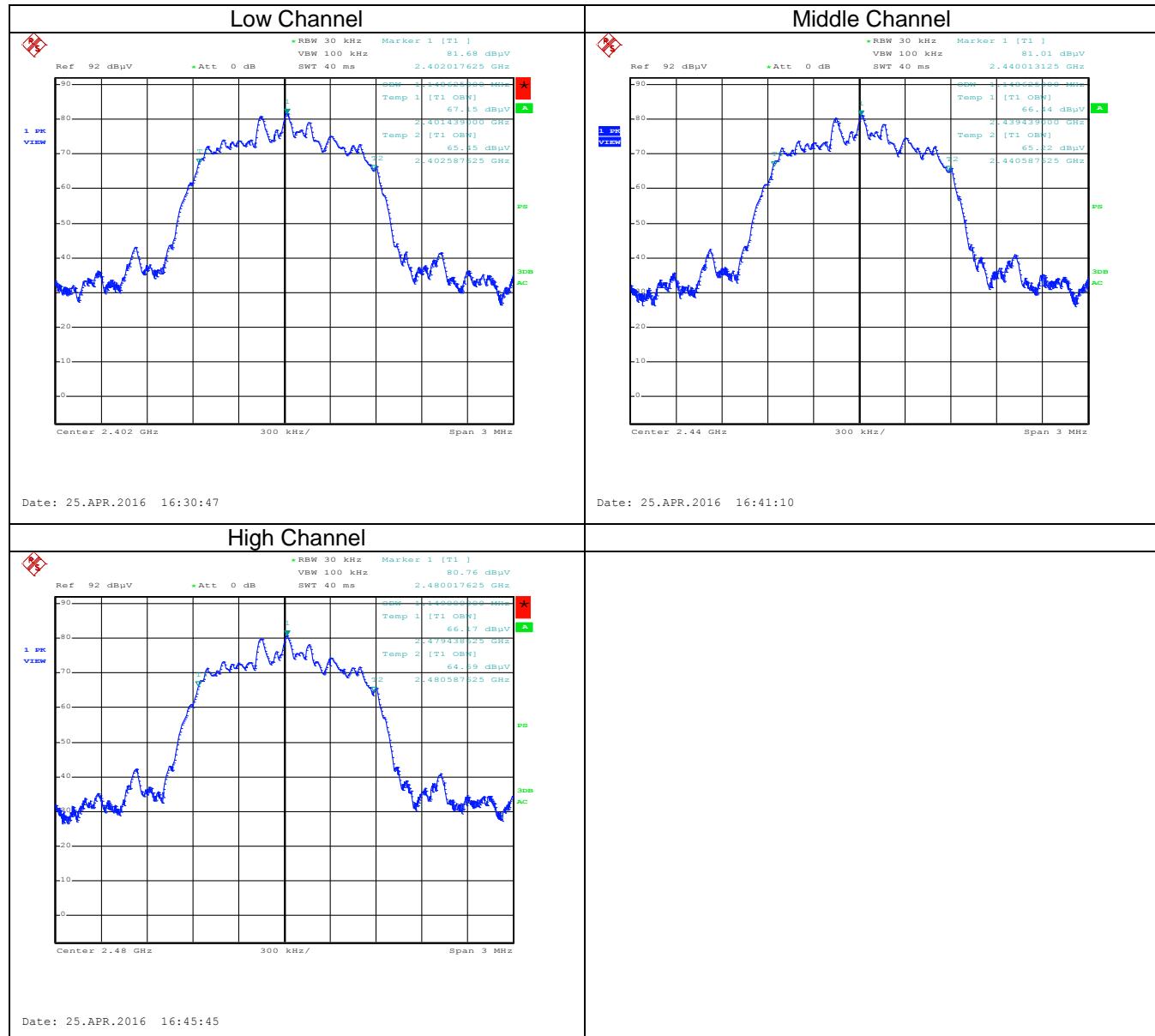


99% Bandwidth Bluetooth_ DPSK -DH5



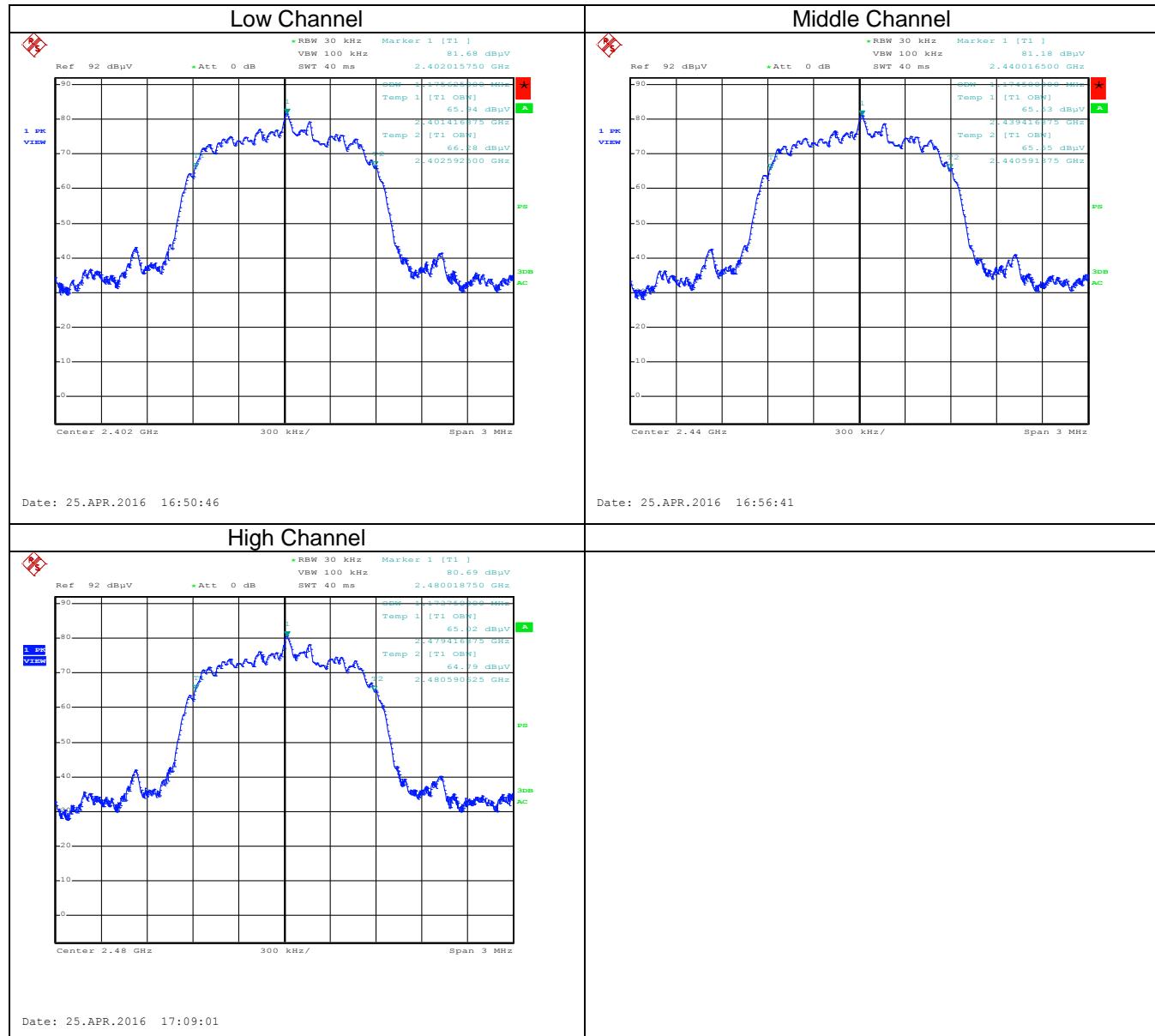


99% Bandwidth_Bluetooth_8DPSK-DH1



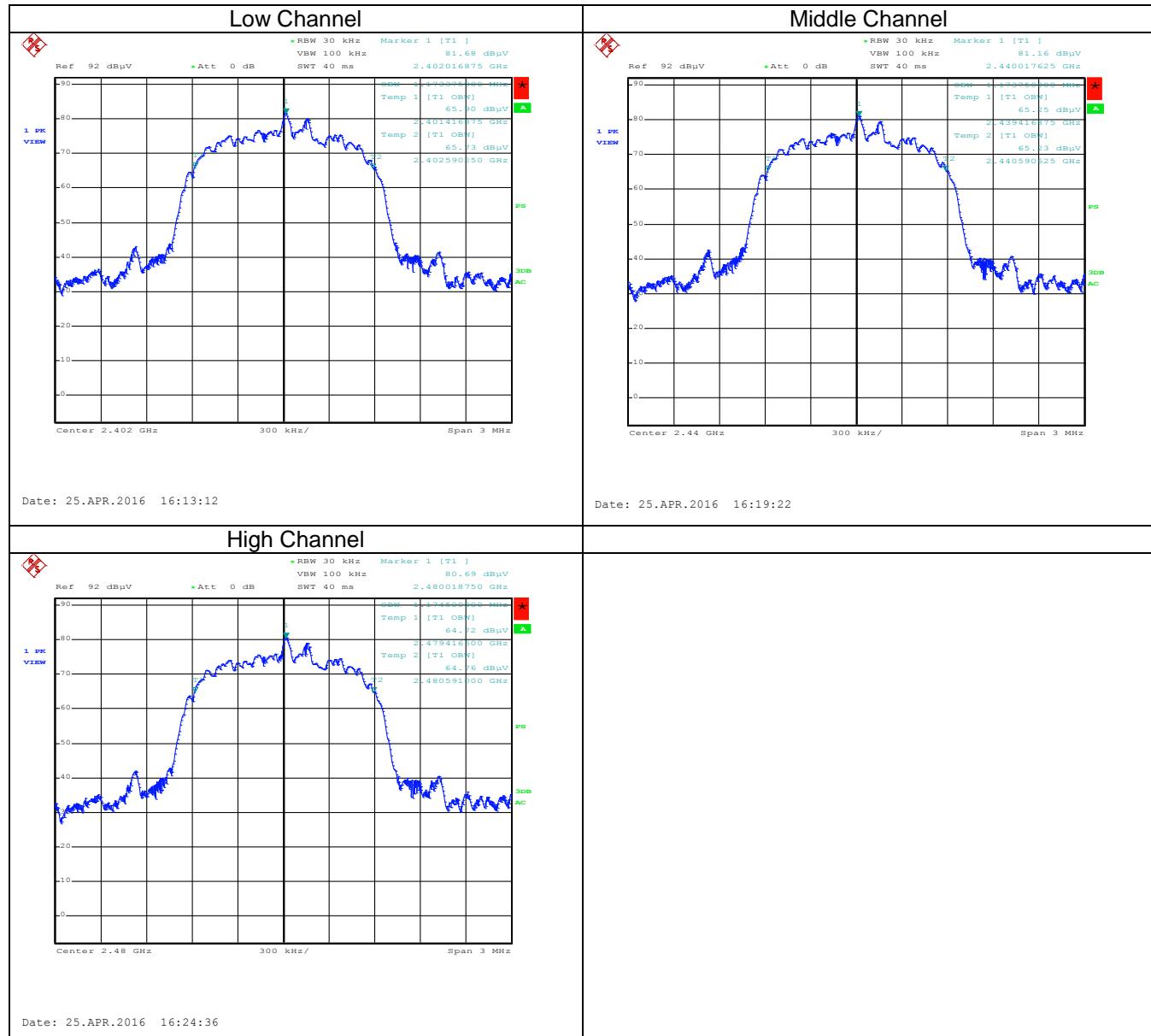


99% Bandwidth Bluetooth_ 8DPSK -DH3





99% Bandwidth Bluetooth_ 8DPSK -DH5





Part 6– Band Edge

DATE: April 29, 2016

TEST STANDARD: RSS-247 Issue 1 Section 5.5, FCC Subpart C §15.247(d)

MINIMUM STANDARD:

RSS-247 Issue 1 Section 5.5: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

FCC Subpart C §15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

TEST SETUP: The EUT was directly connected to a spectrum analyser. The transmitter was set for continuous transmission.

MEASUREMENT METHOD: Measurements were made using a spectrum analyser with 300 kHz RBW peak detector using the appropriate antennas, amplifiers and filters.

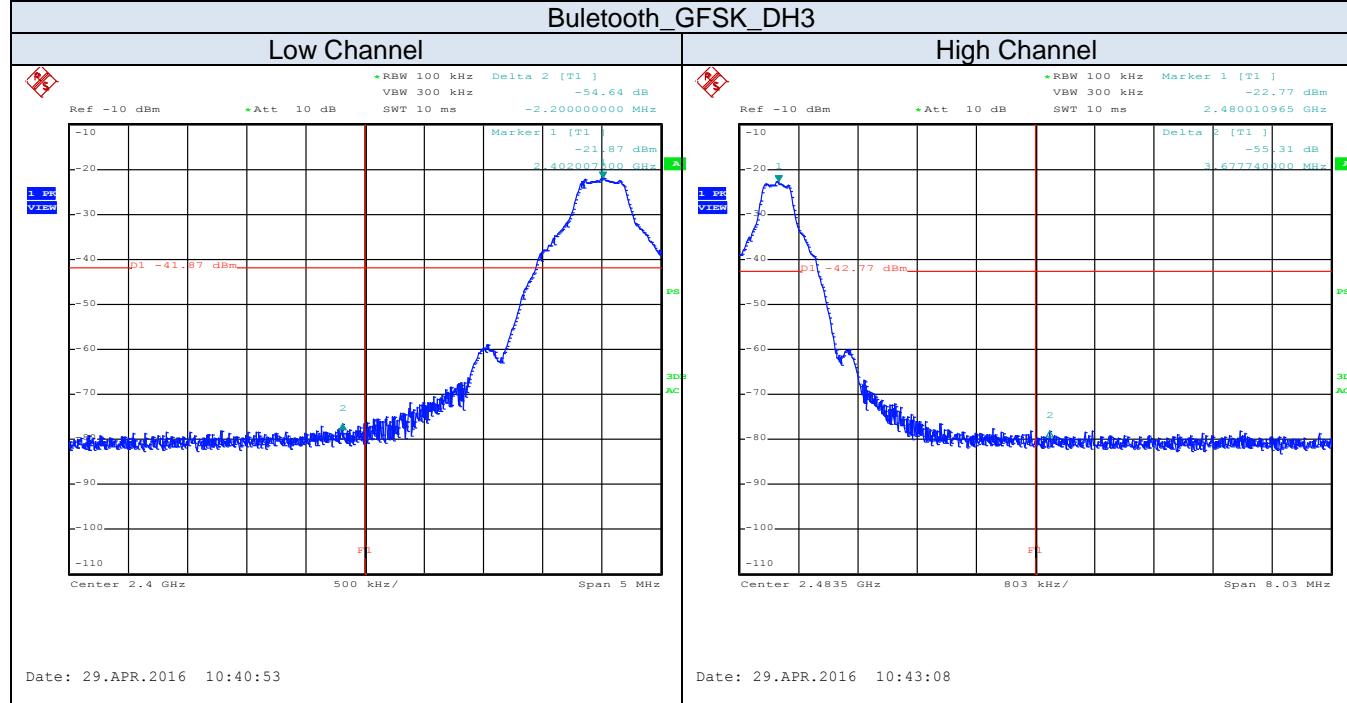
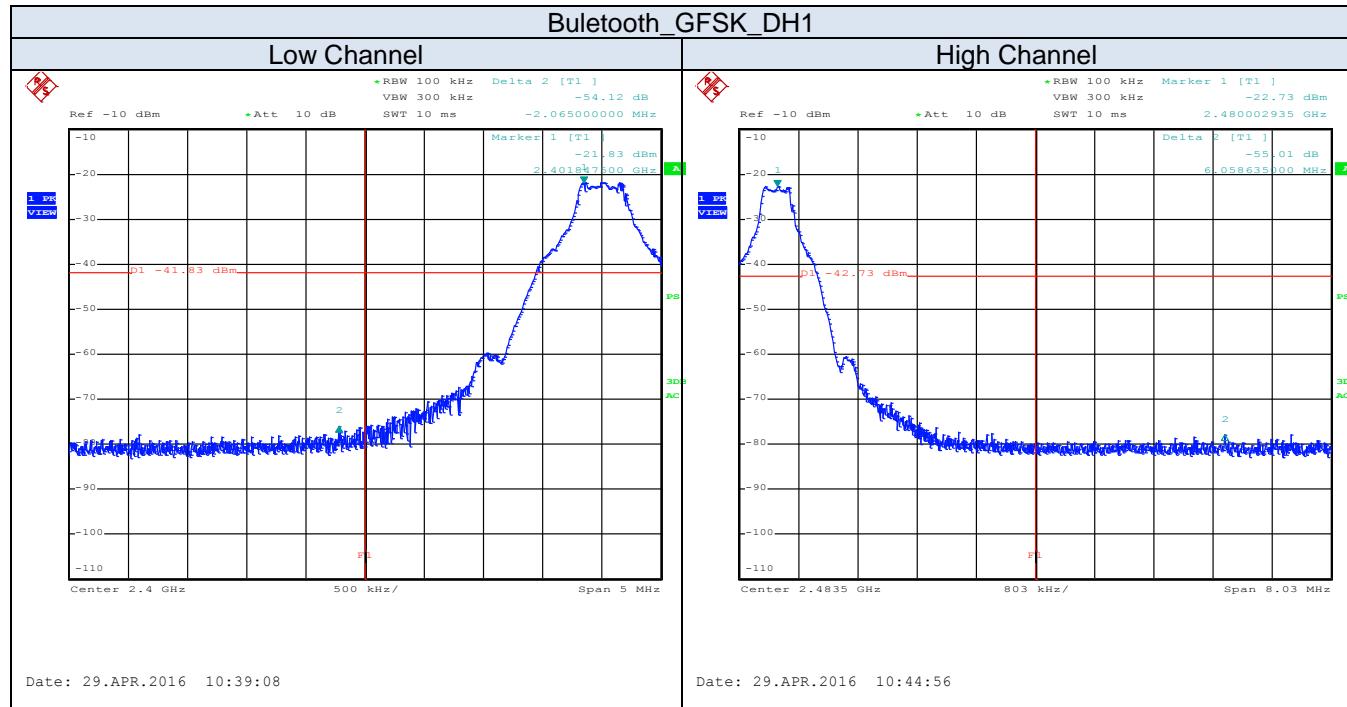
DEVICE DESCRIPTIONS: As described in the above EUT description and setup section.

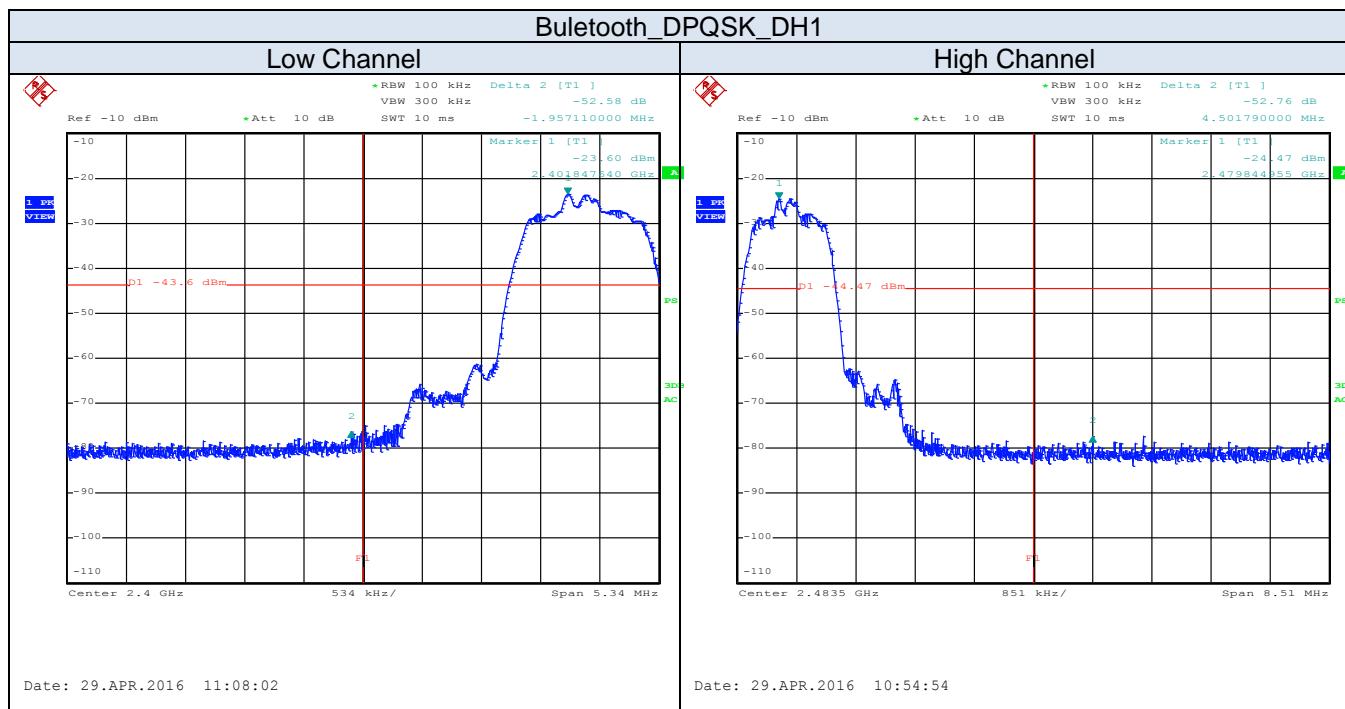
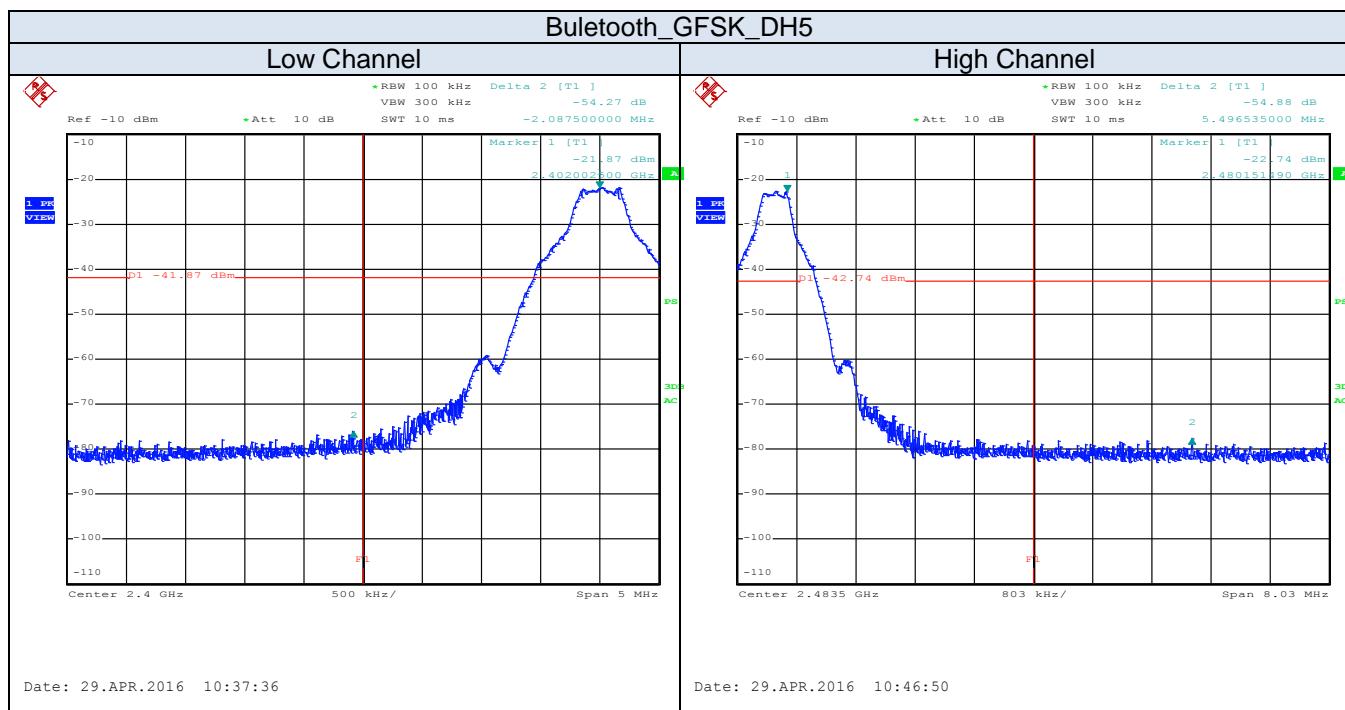
OBSERVATIONS: The EUT performed as expected.

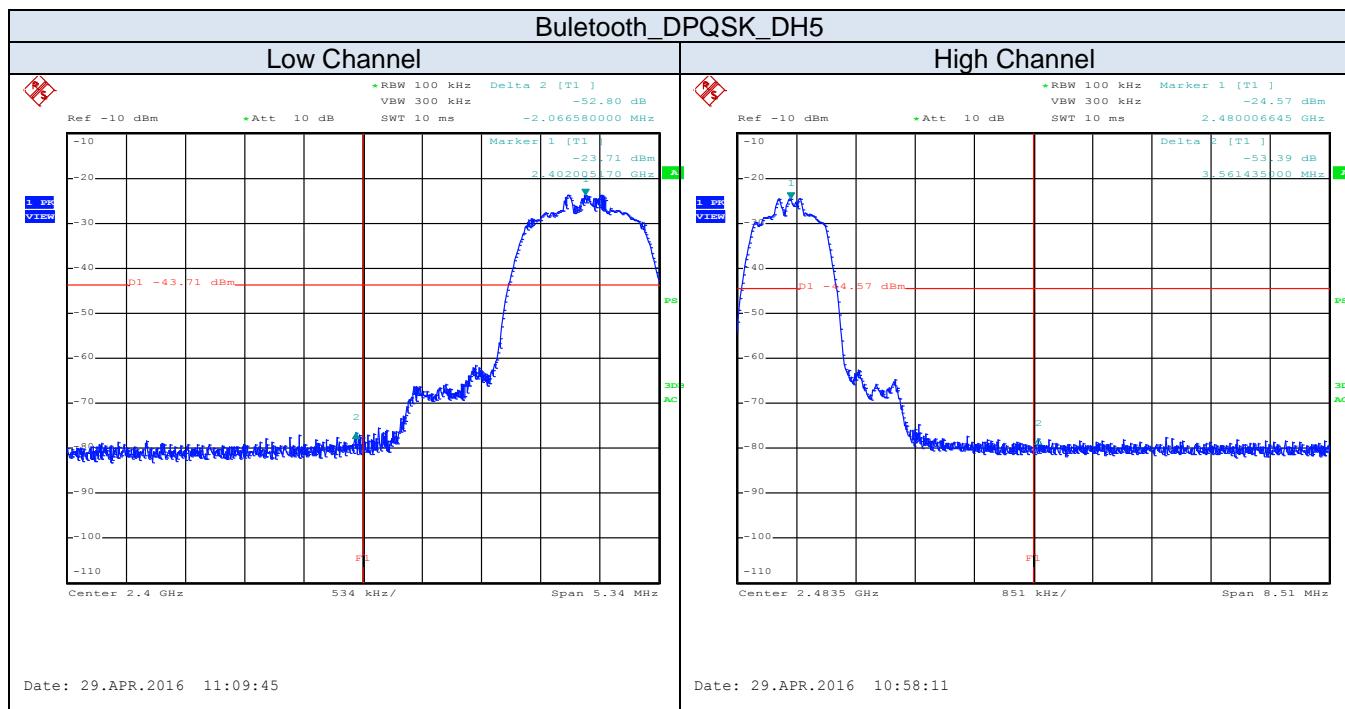
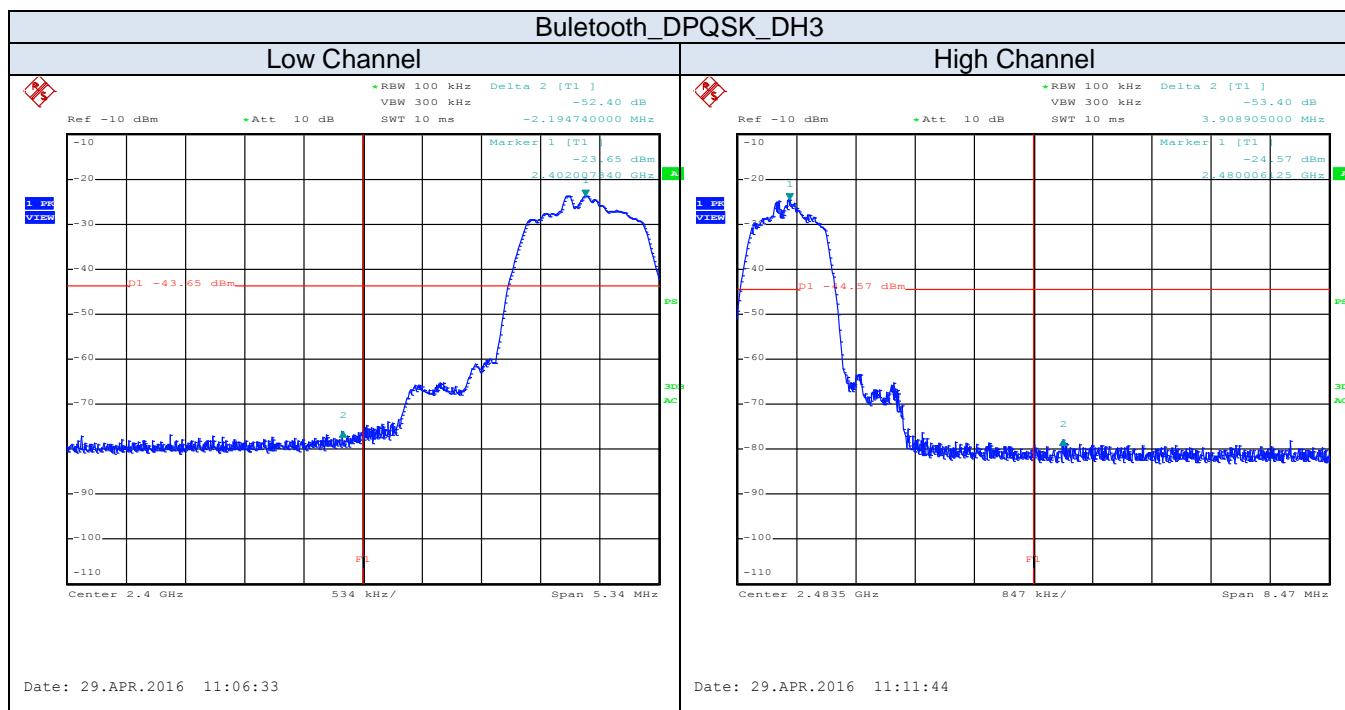
PERFORMANCE: Complies.

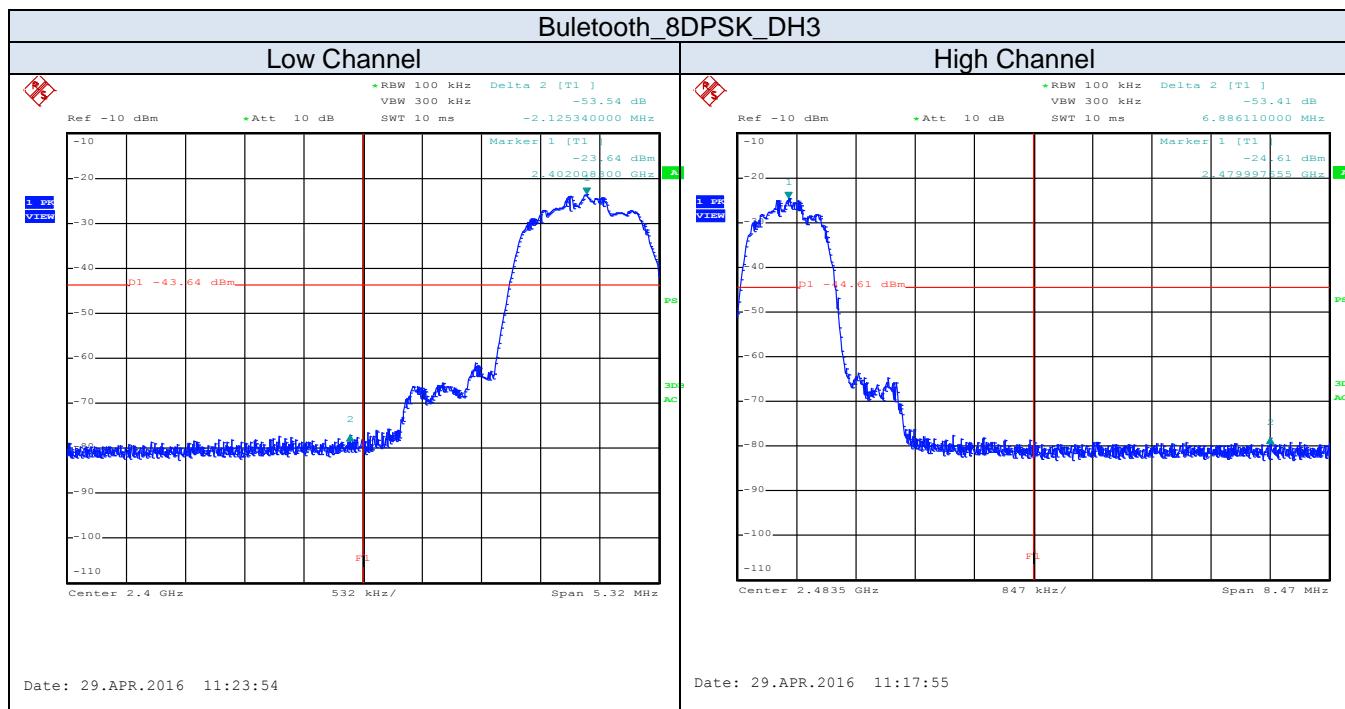
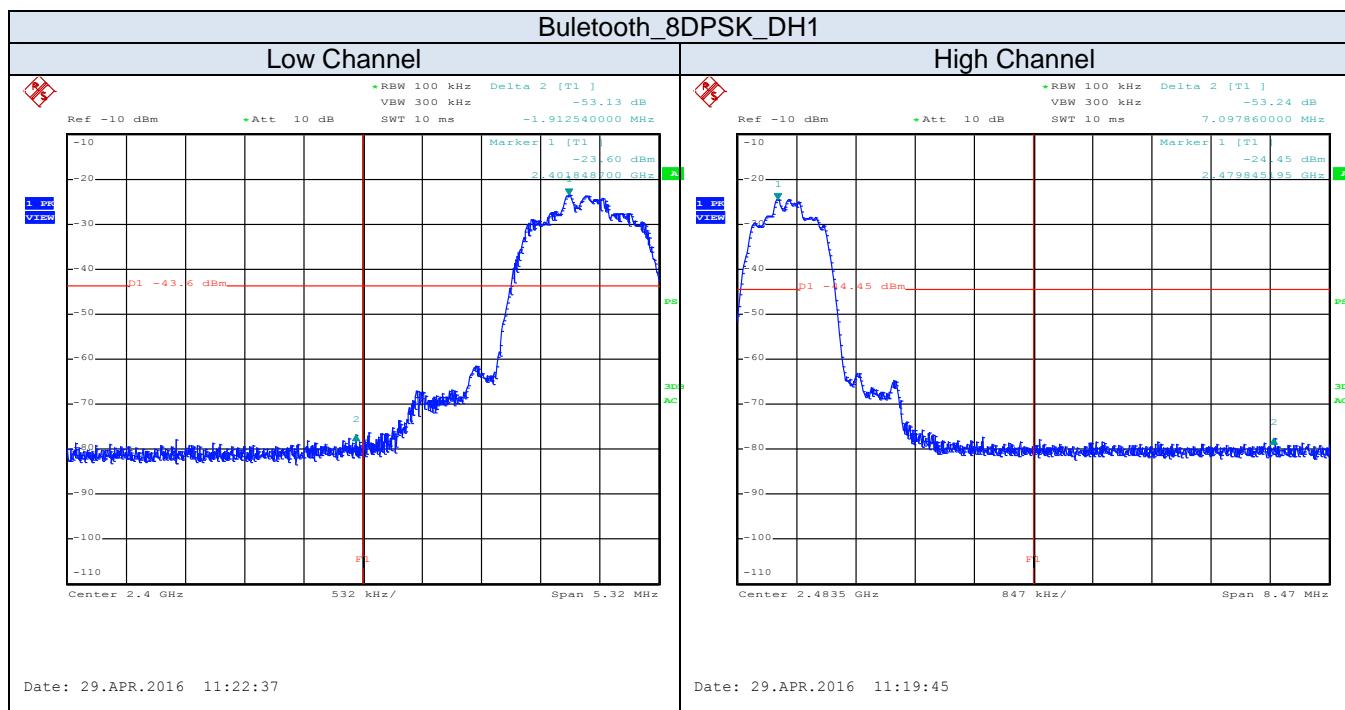


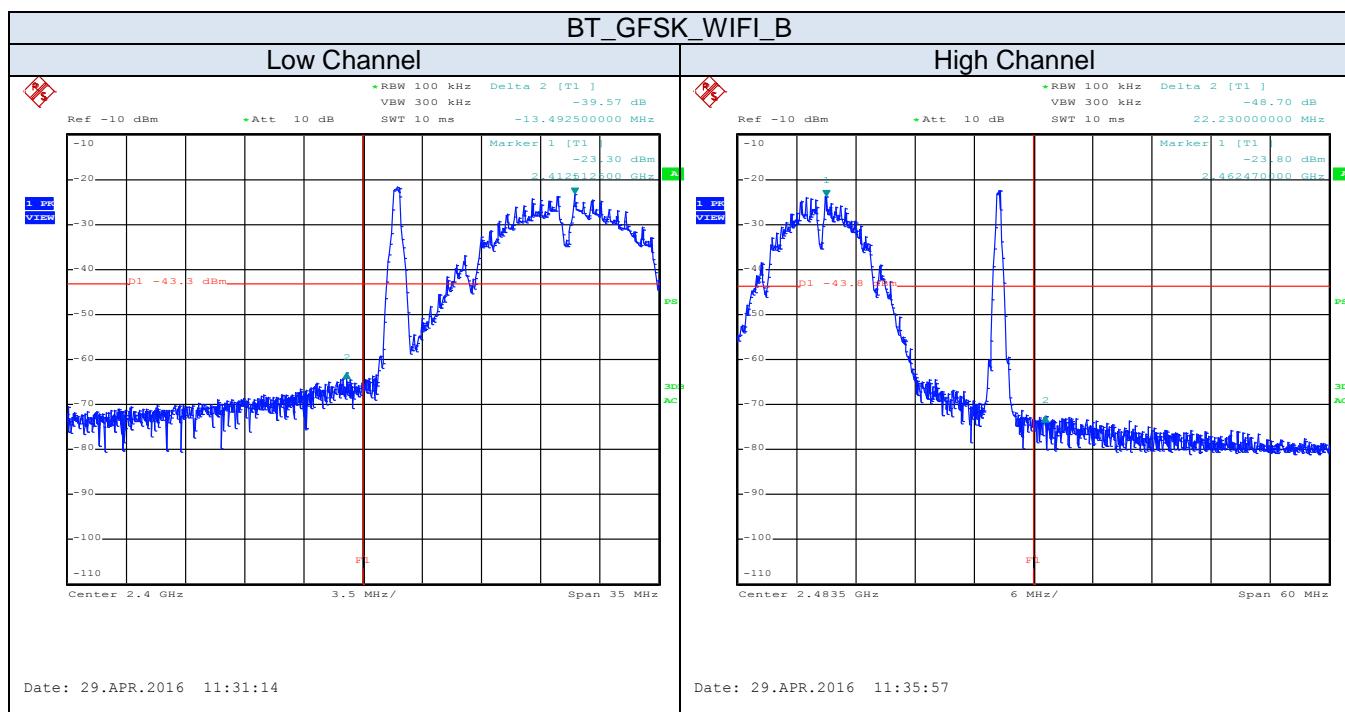
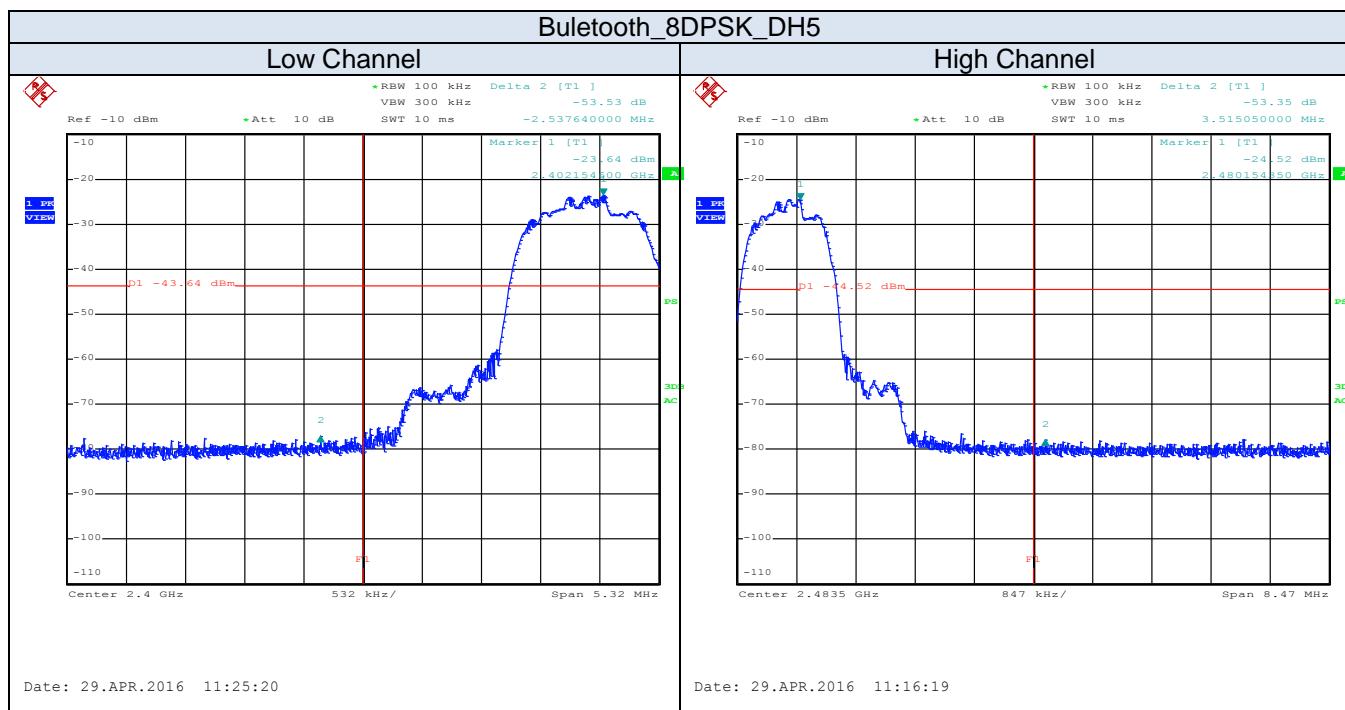
DATA & PLOT:

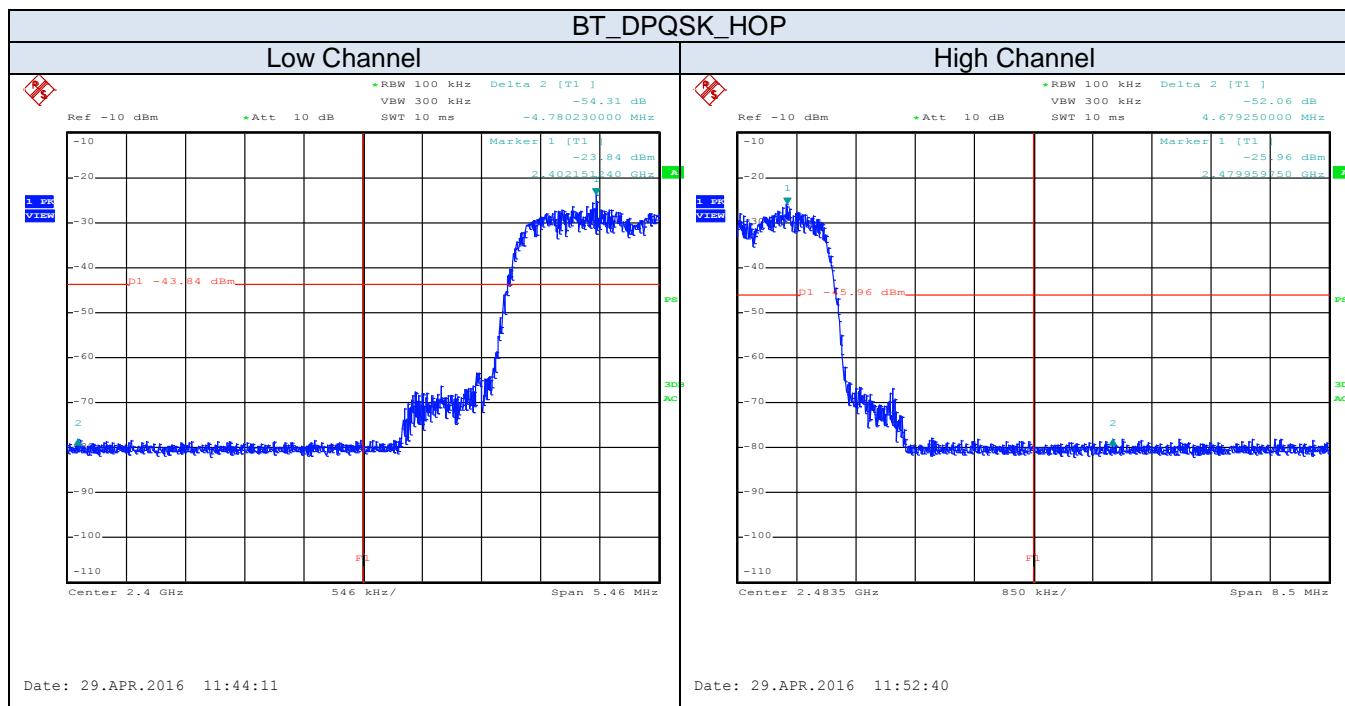
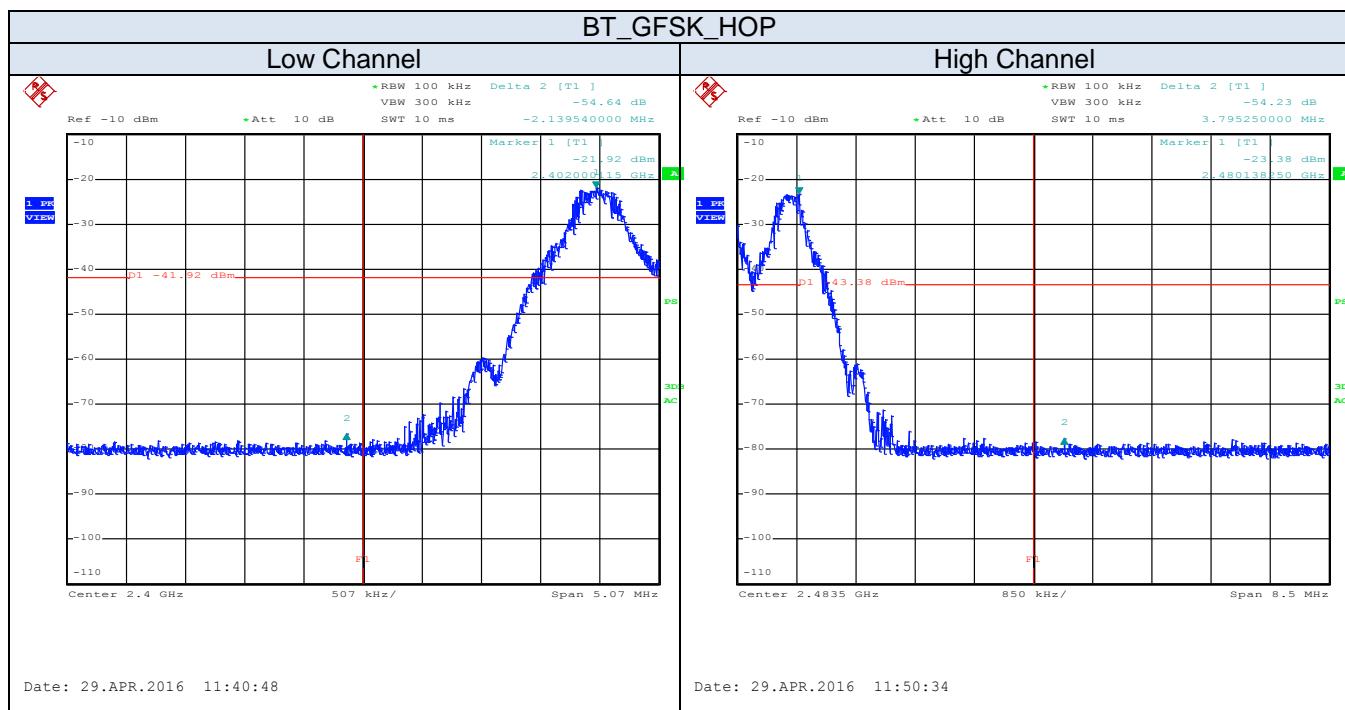


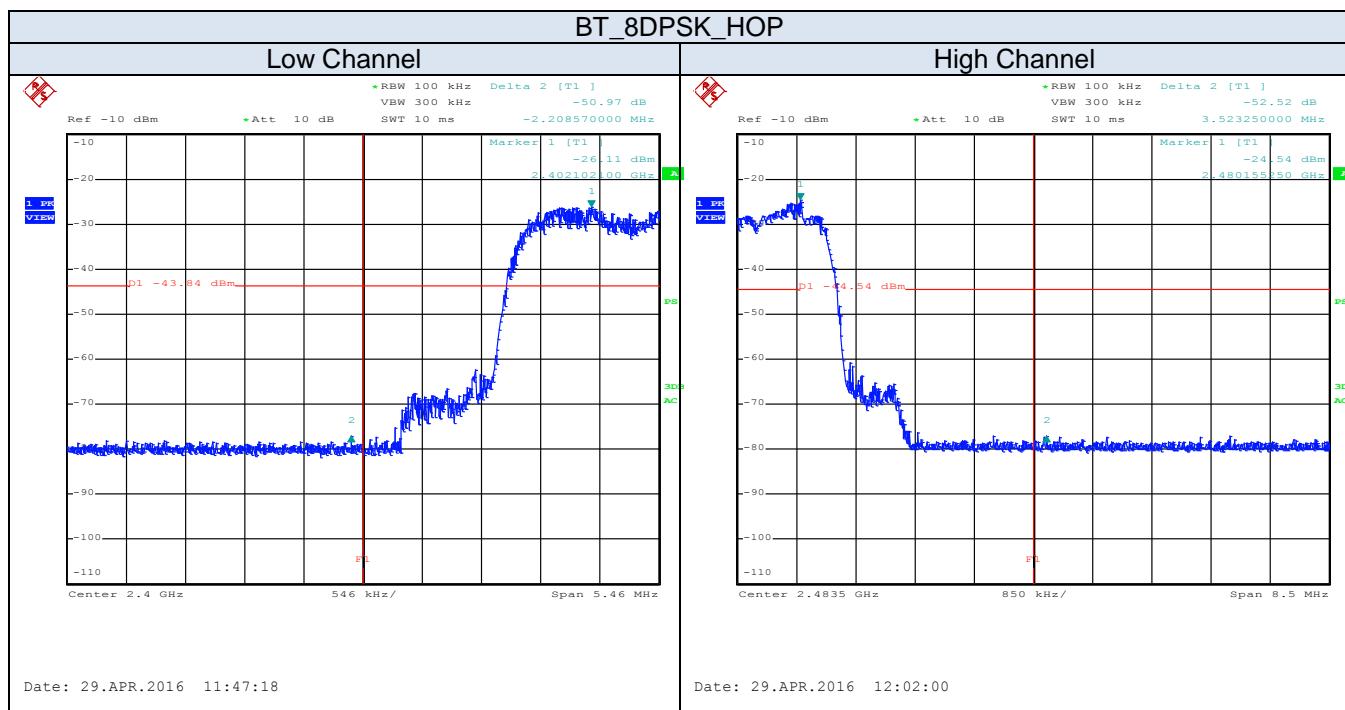


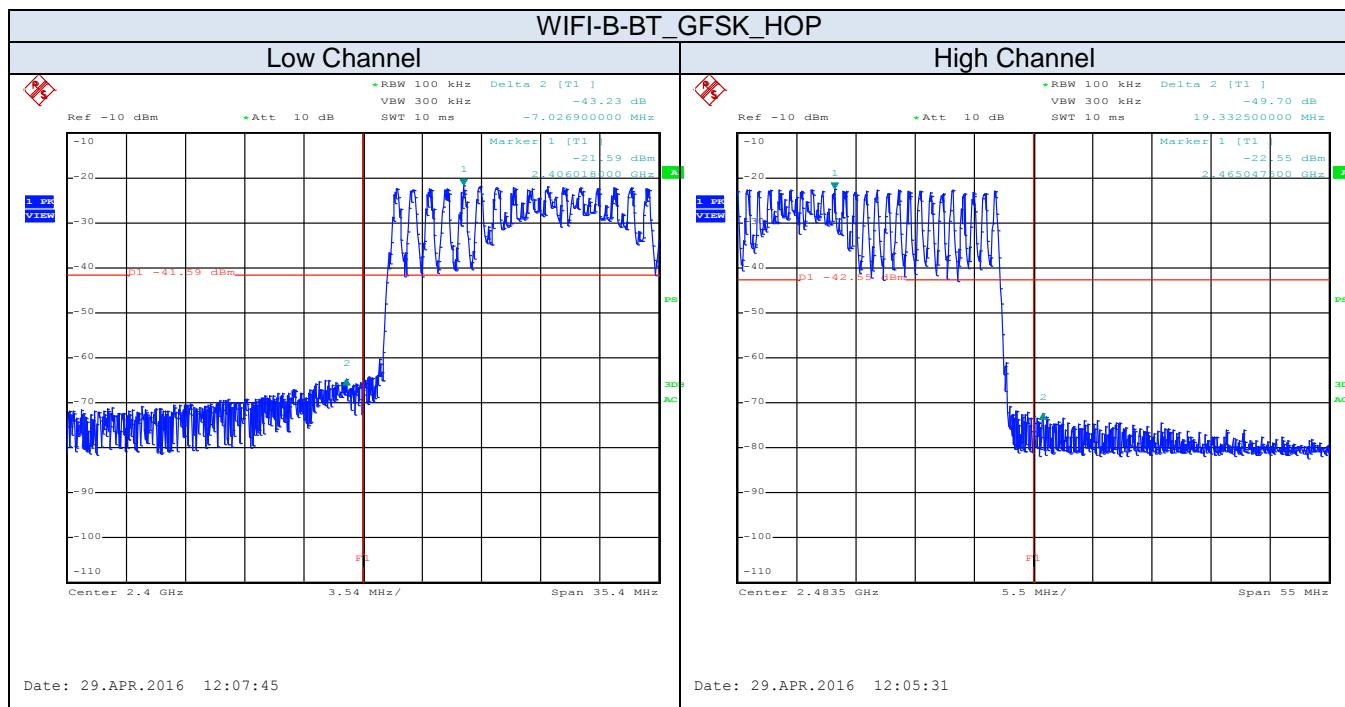














Part 7 – Conducted Spurious Emissions

DATE: April 26, 2016

TEST STANDARD: RSS-247 Issue 1; FCC Subpart C §15.247

MINIMUM STANDARD: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

TEST SETUP: The EUT was directly connected to a spectrum analyser. The transmitter was set for continuous transmission. Measurements were done up to 25GHz.

MEASUREMENT METHOD: Measurements were made using a spectrum analyser with 100kHz RBW quasi-peak detector using the appropriate antennas, amplifiers and filters.

DEVICE DESCRIPTIONS: As described in the above EUT description and setup section.

EMISSIONS DATA & PLOT:

Note:

The limits of the conducted spurious emissions are calculated from the following formula:

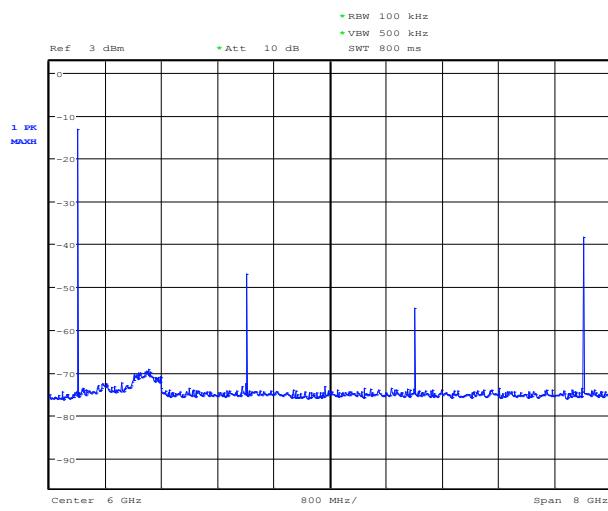
- 1) Limits = Reference level - 20dB
- 2) Reference level was measured as per "558074 D01 DTS Meas Guidance v03r05, section 11.2"



Conducted Spurious Emissions, Bluetooth GFSK, Low Channel

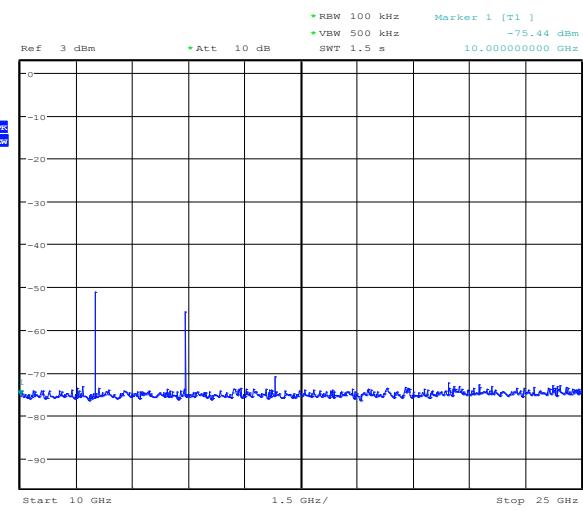
Bluetooth GFSK					
Low Channel -2402					
Frequency (MHz)	Raw Peak (dBm)	Loss (dB)	Corrected Peak (dBm)	Limit (dBm)	Margin (dBm)
4804	-46.5	2.26	-44.24	10.13	54.37
7206	-54.54	2.44	-52.1	10.13	62.23
9608	-37.72	3.91	-33.81	10.13	43.94
12010	-47.93	4.74	-43.19	10.13	53.32
14412	-55.02	8.76	-46.26	10.13	56.39
16814	-71.47	8.53	-62.94	10.13	73.07

Conducted Spurious Emissions, 2GHz-10GHz



Date: 26.APR.2016 18:18:40

Conducted Spurious Emissions, 10GHz-25GHz



Date: 26.APR.2016 18:51:49



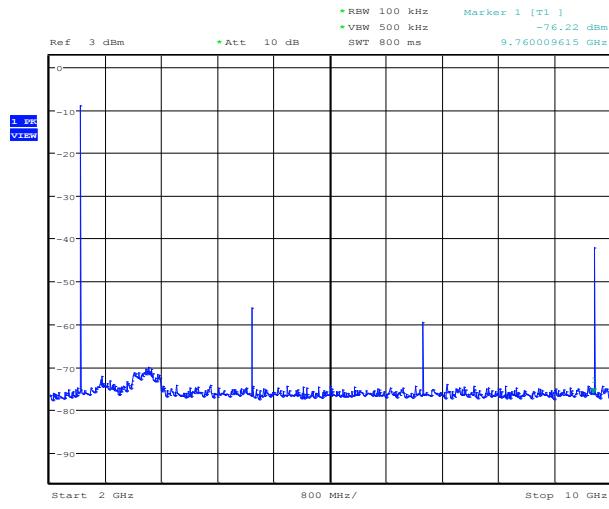
Conducted Spurious Emissions, Bluetooth GFSK, Mid Channel

Bluetooth GFSK

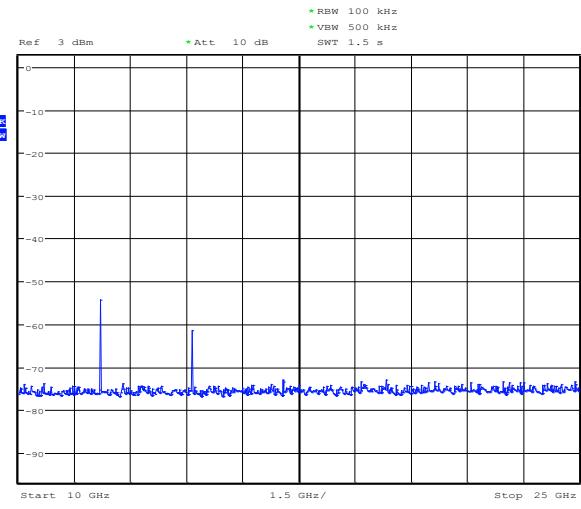
Mid Channel -2440

Frequency (MHz)	Raw Peak (dBm)	Loss (dB)	Corrected Peak (dBm)	Limit (dBm)	Margin (dBm)
4880	-53.69	2.84	-50.85	10.13	60.98
7320	-56.37	3.12	-53.25	10.13	63.38
9760	-41.01	4.73	-36.28	10.13	46.41
12200	-49.43	4.69	-44.74	10.13	54.87
14640	-55.13	9.36	-45.77	10.13	55.9
17080	-64.62	8.58	-56.04	10.13	66.17

Conducted Spurious Emissions, 2GHz-10GHz



Conducted Spurious Emissions, 10GHz-25GHz



Date: 26.APR.2016 18:24:39

Date: 26.APR.2016 18:45:45



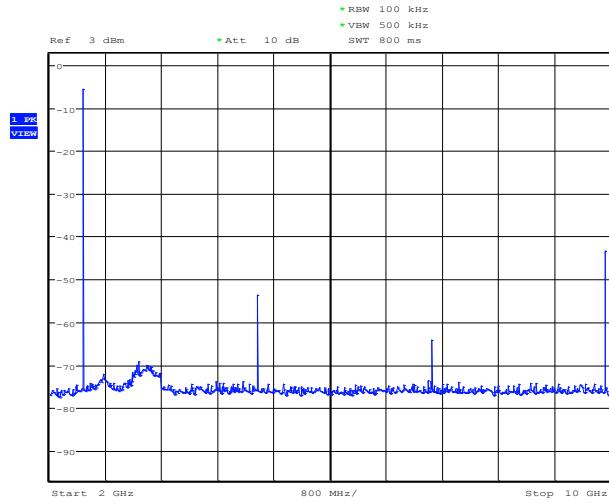
Conducted Spurious Emissions, Bluetooth GFSK, High Channel

Bluetooth GFSK

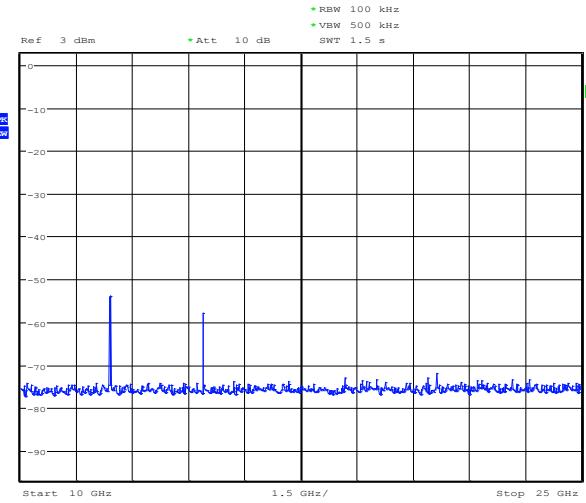
Hi Channel -2480

Frequency (MHz)	Raw Peak (dBm)	Loss (dB)	Corrected Peak (dBm)	Limit (dBm)	Margin (dBm)
4960	-50.52	2.23	-48.29	10.13	58.42
7440	-60.96	3.15	-57.81	10.13	67.94
9920	-39.85	4.46	-35.39	10.13	45.52
12400	-49.77	4.65	-45.12	10.13	55.25
14880	-50.11	8.54	-41.57	10.13	51.7
17360	-70.8	7.74	-63.06	10.13	73.19

Conducted Spurious Emissions, 2GHz-10GHz



Conducted Spurious Emissions, 10GHz-25GHz



Date: 26.APR.2016 18:38:07

Date: 26.APR.2016 18:41:28



Conducted Spurious Emissions, Bluetooth DQPSK, Low Channel

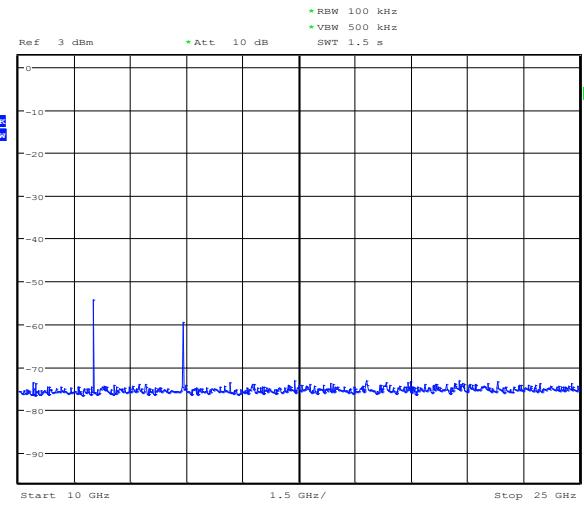
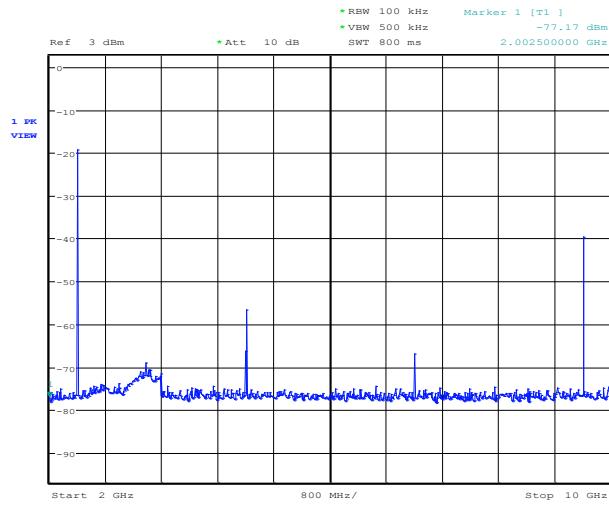
Bluetooth π/4DQPSK

Low Channel -2402

Frequency (MHz)	Raw Peak (dBm)	Loss (dB)	Corrected Peak (dBm)	Limit (dBm)	Margin (dBm)
4804	51.01	2.26	53.27	8.31	57.06
7206	-61.82	2.44	-59.38	8.31	67.69
9608	-39.07	3.91	-35.16	8.31	43.47
12010	-50.19	4.74	-45.45	8.31	53.76
14412	-56.3	8.76	-47.54	8.31	55.85
16814	-73.18	8.53	-64.65	8.31	72.96

Conducted Spurious Emissions, 2GHz-10GHz

Conducted Spurious Emissions, 10GHz-25GHz



Date: 26.APR.2016 19:46:58

Date: 26.APR.2016 19:14:46



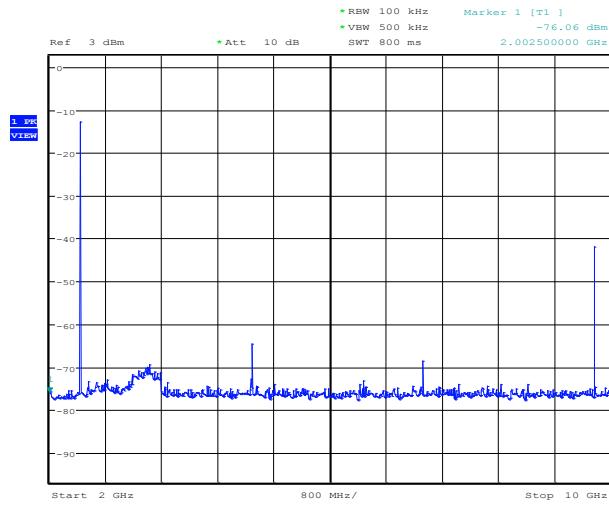
Conducted Spurious Emissions, Bluetooth DQPSK, Mid Channel

Bluetooth π/4DQPSK

Mid Channel -2440

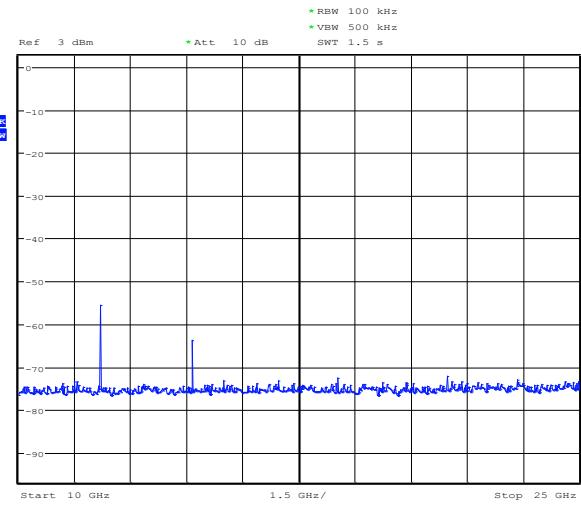
Frequency (MHz)	Raw Peak (dBm)	Loss (dB)	Corrected Peak (dBm)	Limit (dBm)	Margin (dBm)
4880	-60.7	2.84	-57.86	8.31	66.17
7320	-63.3	3.12	-60.18	8.31	68.49
9760	-41	4.73	-36.27	8.31	44.58
12200	-52.78	4.69	-48.09	8.31	56.4
14640	-60.45	9.36	-51.09	8.31	59.4
17080	-70.97	8.58	-62.39	8.31	70.7

Conducted Spurious Emissions, 2GHz-10GHz



Date: 26.APR.2016 19:47:50

Conducted Spurious Emissions, 10GHz-25GHz



Date: 26.APR.2016 19:17:35



Conducted Spurious Emissions, Bluetooth DQPSK, High Channel

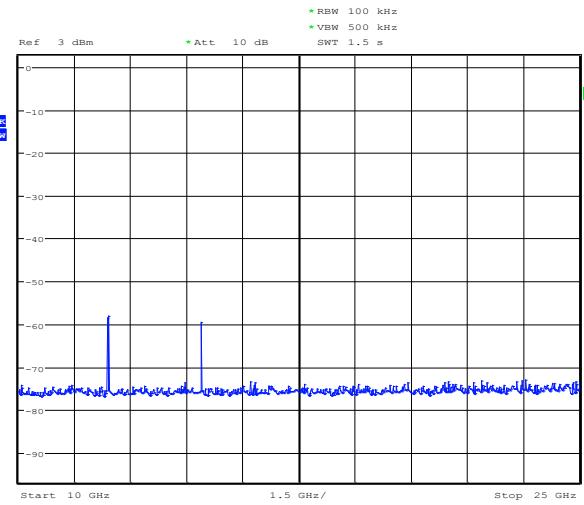
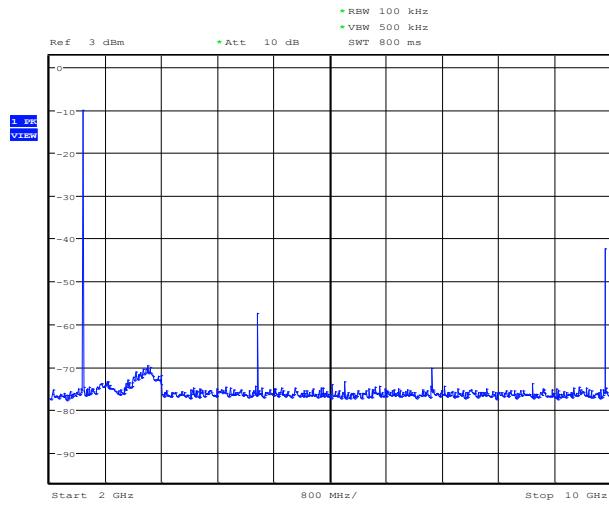
Bluetooth π/4DQPSK

Hi Channel -2480

Frequency (MHz)	Raw Peak (dBm)	Loss (dB)	Corrected Peak (dBm)	Limit (dBm)	Margin (dBm)
4960	-54.2	2.23	-51.97	8.31	60.28
7440	-65.6	3.15	-62.45	8.31	70.76
9920	-40.01	4.46	-35.55	8.31	43.86
12400	-53.86	4.65	-49.21	8.31	57.52
14880	-55.77	8.54	-47.23	8.31	55.54
17360	-73.23	7.74	-65.49	8.31	73.8

Conducted Spurious Emissions, 2GHz-10GHz

Conducted Spurious Emissions, 10GHz-25GHz



Date: 26.APR.2016 19:50:56

Date: 26.APR.2016 19:19:49



Conducted Spurious Emissions, Bluetooth 8DPSK, Low Channel

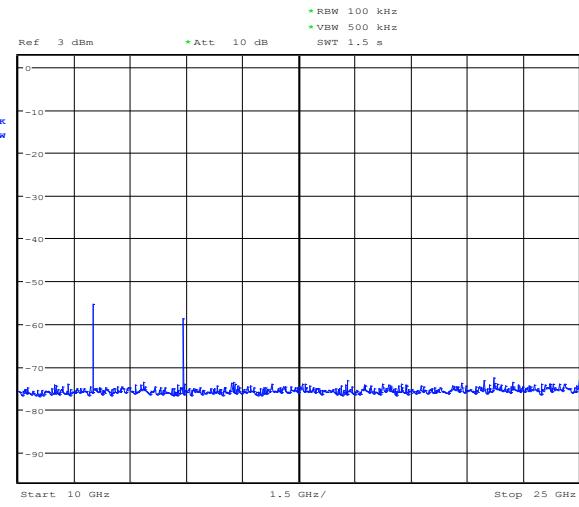
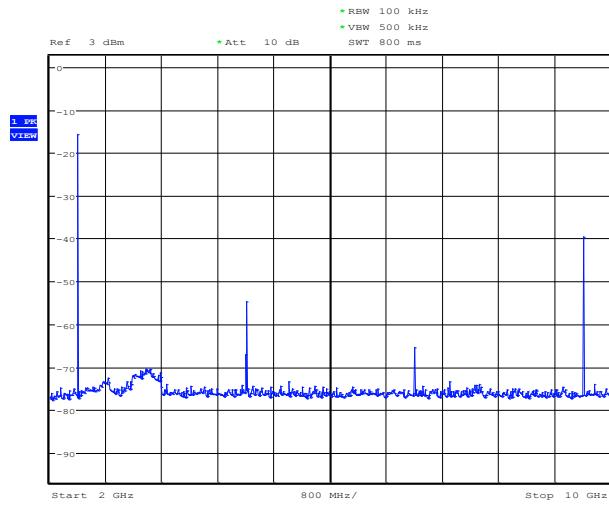
Bluetooth 8DPSK

Low Channel -2402

Frequency (MHz)	Raw Peak (dBm)	Loss (dB)	Corrected Peak (dBm)	Limit (dBm)	Margin (dBm)
4804	-50.81	2.26	-48.55	8.36	56.91
7206	-61.5	2.44	-59.06	8.36	67.42
9608	-38.75	3.91	-34.84	8.36	43.2
12010	-50.13	4.74	-45.39	8.36	53.75
14412	-55.91	8.76	-47.15	8.36	55.51
16814	-72.48	8.53	-63.95	8.36	72.31

Conducted Spurious Emissions, 2GHz-10GHz

Conducted Spurious Emissions, 10GHz-25GHz



Date: 26.APR.2016 19:57:45

Date: 26.APR.2016 20:09:57



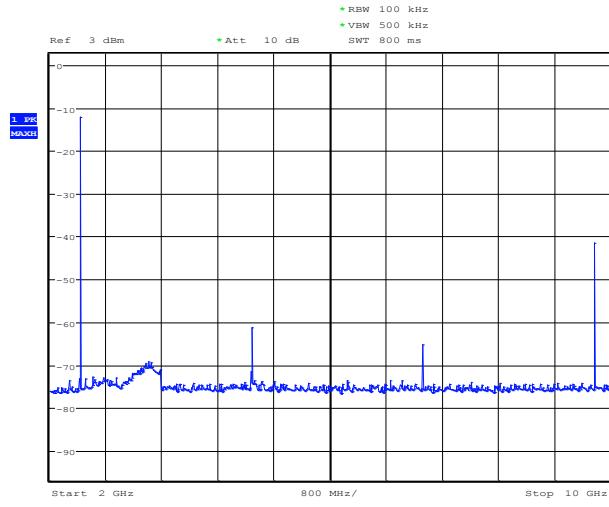
Conducted Spurious Emissions, Bluetooth 8DPSK, Mid Channel

Bluetooth 8DPSK

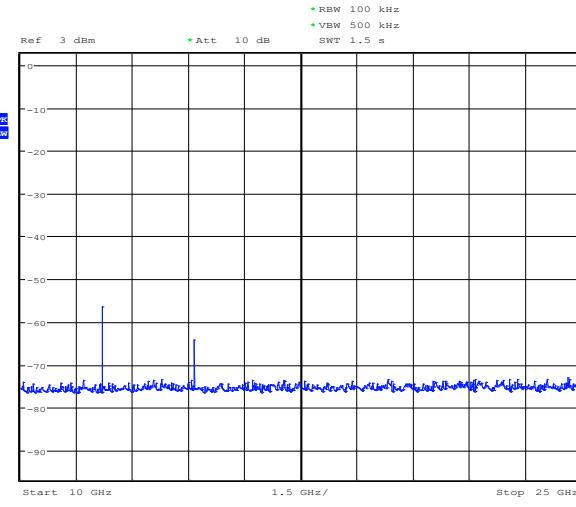
Mid Channel -2440

Frequency (MHz)	Raw Peak (dBm)	Loss (dB)	Corrected Peak (dBm)	Limit (dBm)	Margin (dBm)
4880	-59.92	2.84	-57.08	8.36	65.44
7320	-62.72	3.12	-59.6	8.36	67.96
9760	-40.96	4.73	-36.23	8.36	44.59
12200	-52.72	4.69	-48.03	8.36	56.39
14640	-59.45	9.36	-50.09	8.36	58.45
17080	-69.15	8.58	-60.57	8.36	68.93

Conducted Spurious Emissions, 2GHz-10GHz



Conducted Spurious Emissions, 10GHz-25GHz



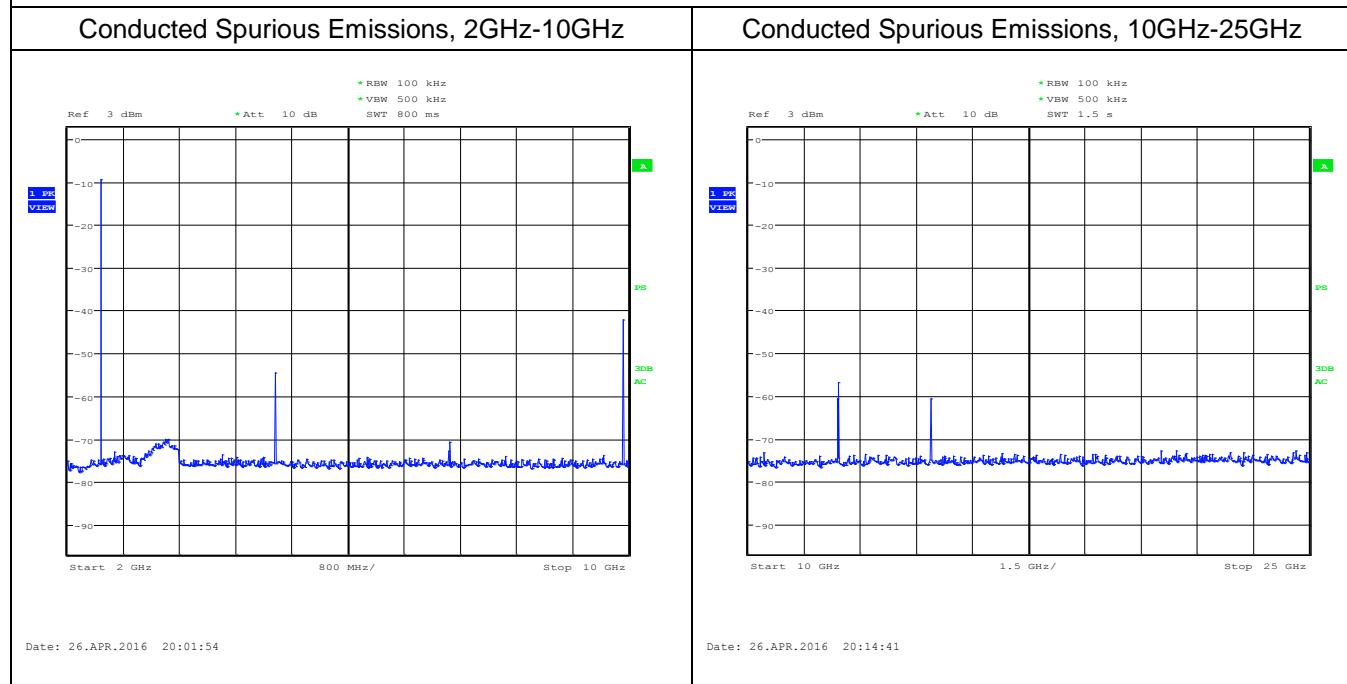
Date: 26.APR.2016 19:58:48

Date: 26.APR.2016 20:12:37



Conducted Spurious Emissions, Bluetooth 8DPSK, High Channel

Bluetooth 8DPSK Hi Channel -2480					
Frequency (MHz)	Raw Peak (dBm)	Loss (dB)	Corrected Peak (dBm)	Limit (dBm)	Margin (dBm)
4960	-53.8	2.23	-51.57	8.36	59.93
7440	-65.55	3.15	-62.4	8.36	70.76
9920	-39.84	4.46	-35.38	8.36	43.74
12400	-53.4	4.65	-48.75	8.36	57.11
14880	-55.34	8.54	-46.8	8.36	55.16
17360	-72.43	7.74	-64.69	8.36	73.05





Part 8 – Hopping Carrier Frequency Separation

DATE: May 3, 2016

TEST STANDARD: RSS-247 Issue 1; FCC Subpart C §15.247

MINIMUM STANDARD: 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 pseudo randomly 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.

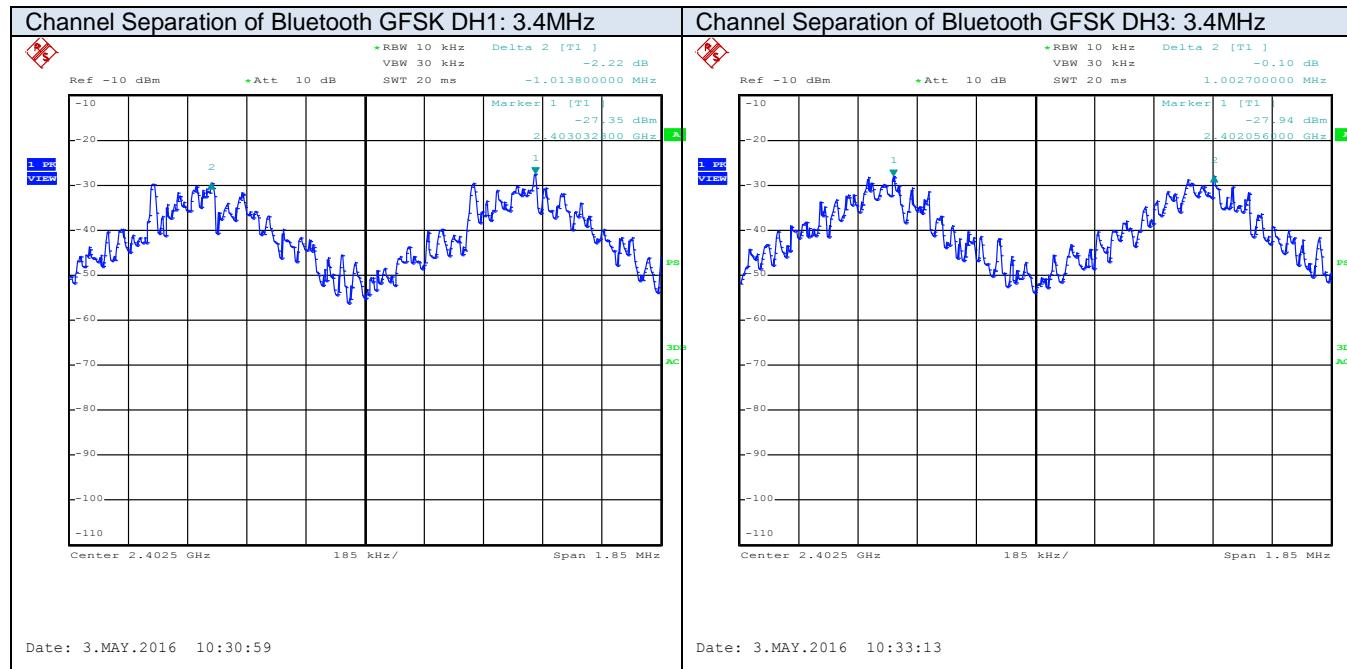
TEST SETUP: The EUT is directly connected to a spectrum analyser.

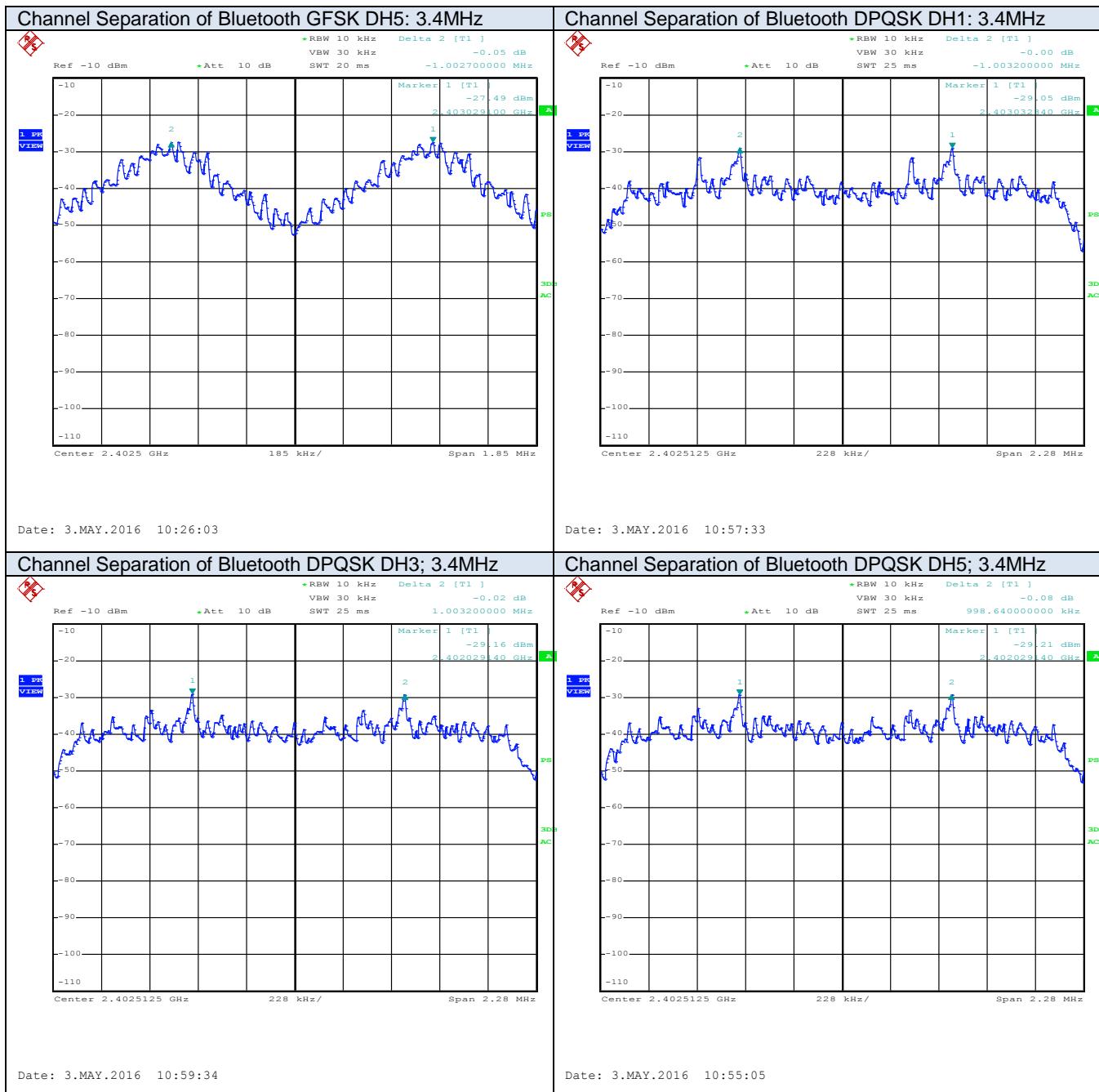
MEASUREMENT METHOD: Measurements were made using spectrum analyser with RBW and VBW of 100 kHz using the appropriate antennas, amplifiers and filters.

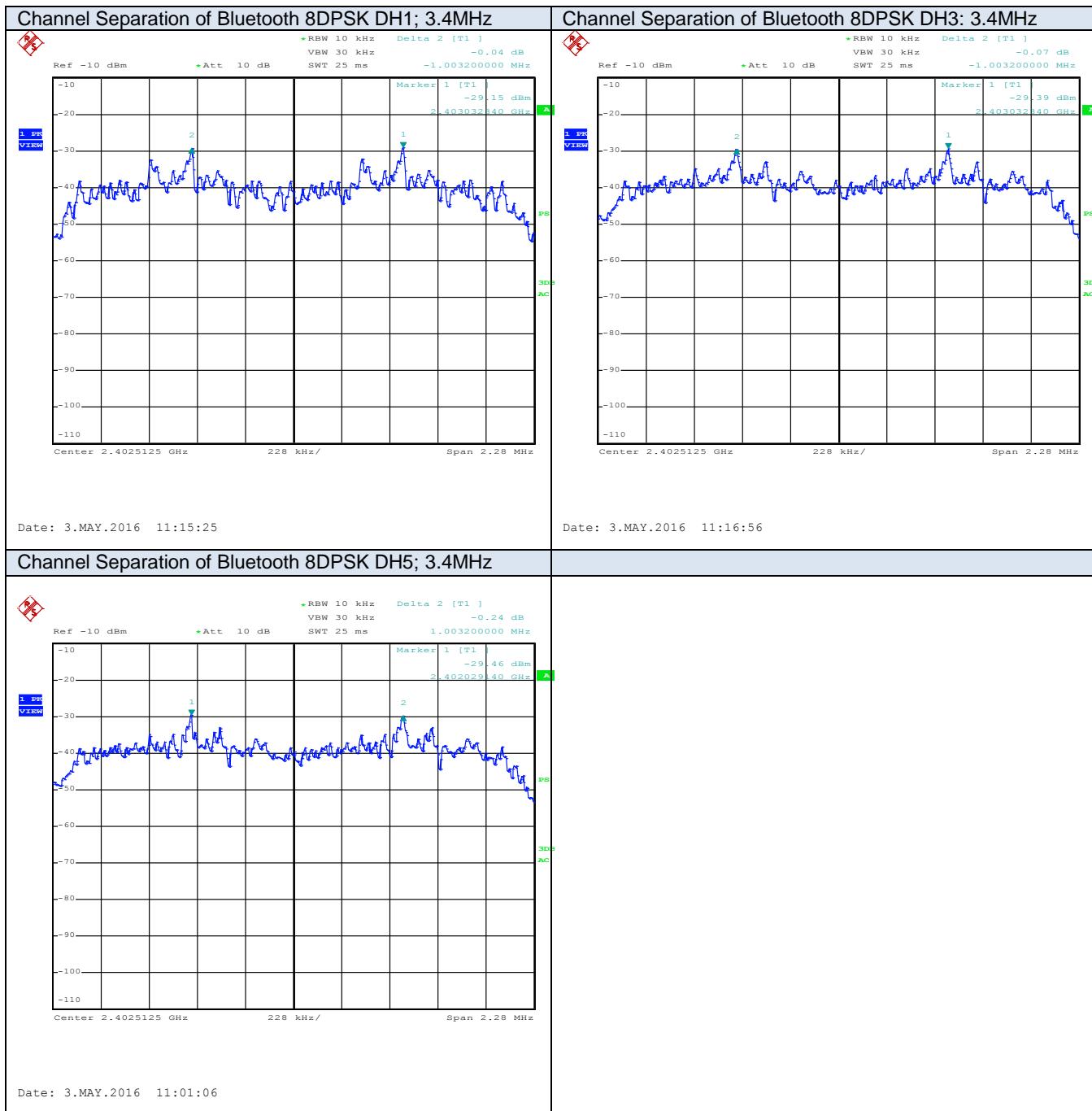
DEVICE DESCRIPTIONS: As described in the above EUT description and setup section.

RESULTS: Compliance to standard is confirmed.

DATA & PLOT:









Part 9 – Number of Hopping Frequencies

DATE: May 2, 2016

TEST STANDARD: RSS-247 Issue 1; FCC Subpart C §15.247

MINIMUM STANDARD: Frequency hopping systems in the 2400 – 2483.5 MHz shall use at least 15 non-overlapping channels.

TEST SETUP: The EUT is directly connected to a spectrum analyser. The span is set to cover authorised band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to 1% of the span. The analyser is set to Max Hold.

MEASUREMENT METHOD: Measurements were made using spectrum analyser using the appropriate antennas, amplifiers and filters.

DEVICE DESCRIPTIONS: As described in the above EUT description and setup section.

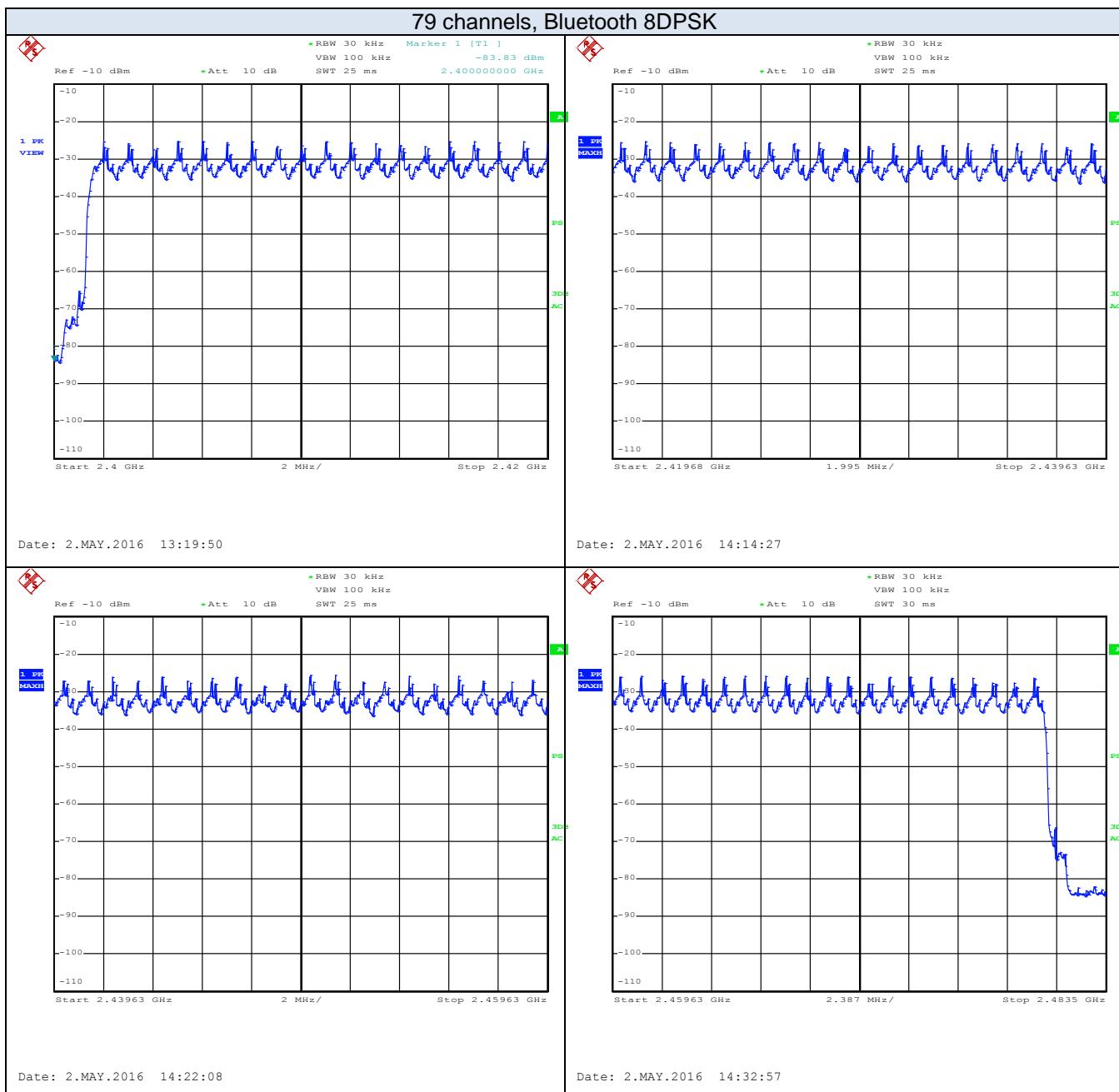
OBSERVATIONS: The EUT performed as expected.

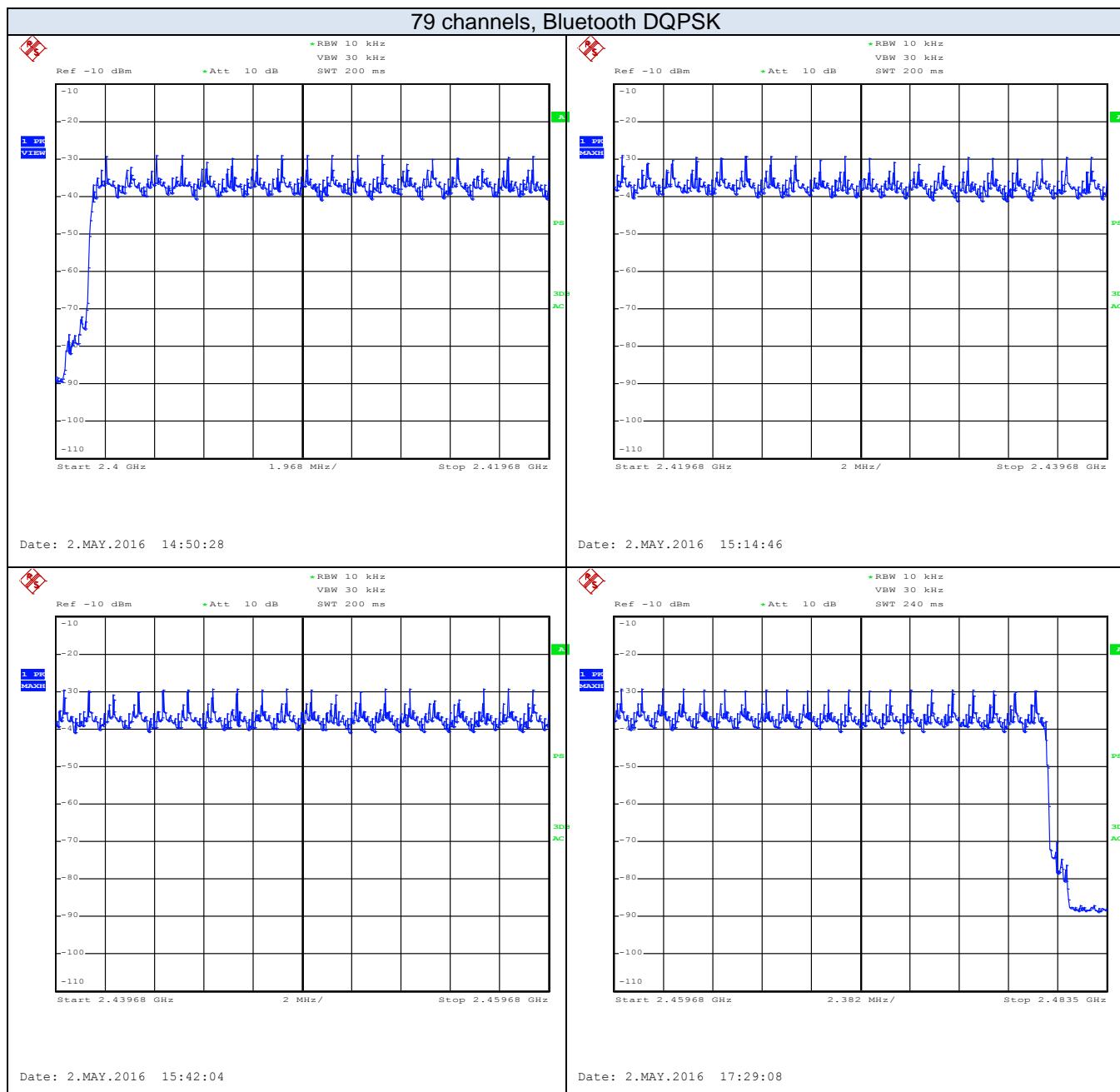
PERFORMANCE: Complies



DATA & PLOT:









Part 10 – Time Of Occupancy (Dwell Time)

DATE: May 3, 2016

TEST STANDARD: RSS-247 Issue 1; FCC Subpart C §15.247

MINIMUM STANDARD: For frequency hopping systems 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.

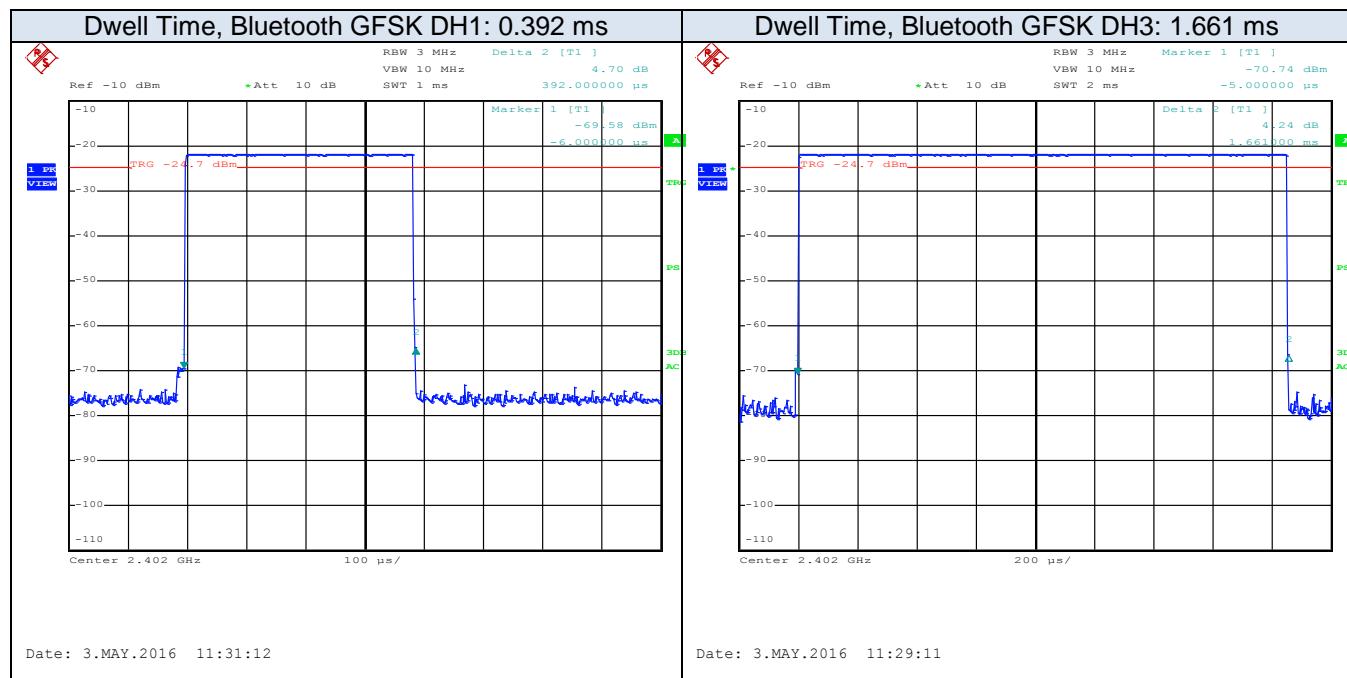
TEST SETUP: The EUT is directly connected to a spectrum analyser. The span is set to 0 Hz, centered on a single, selected hopping channel. The width of a single pulse is measured in a fast scan. The number of pulses is measured in a second scan to enable resolution of each occurrence.

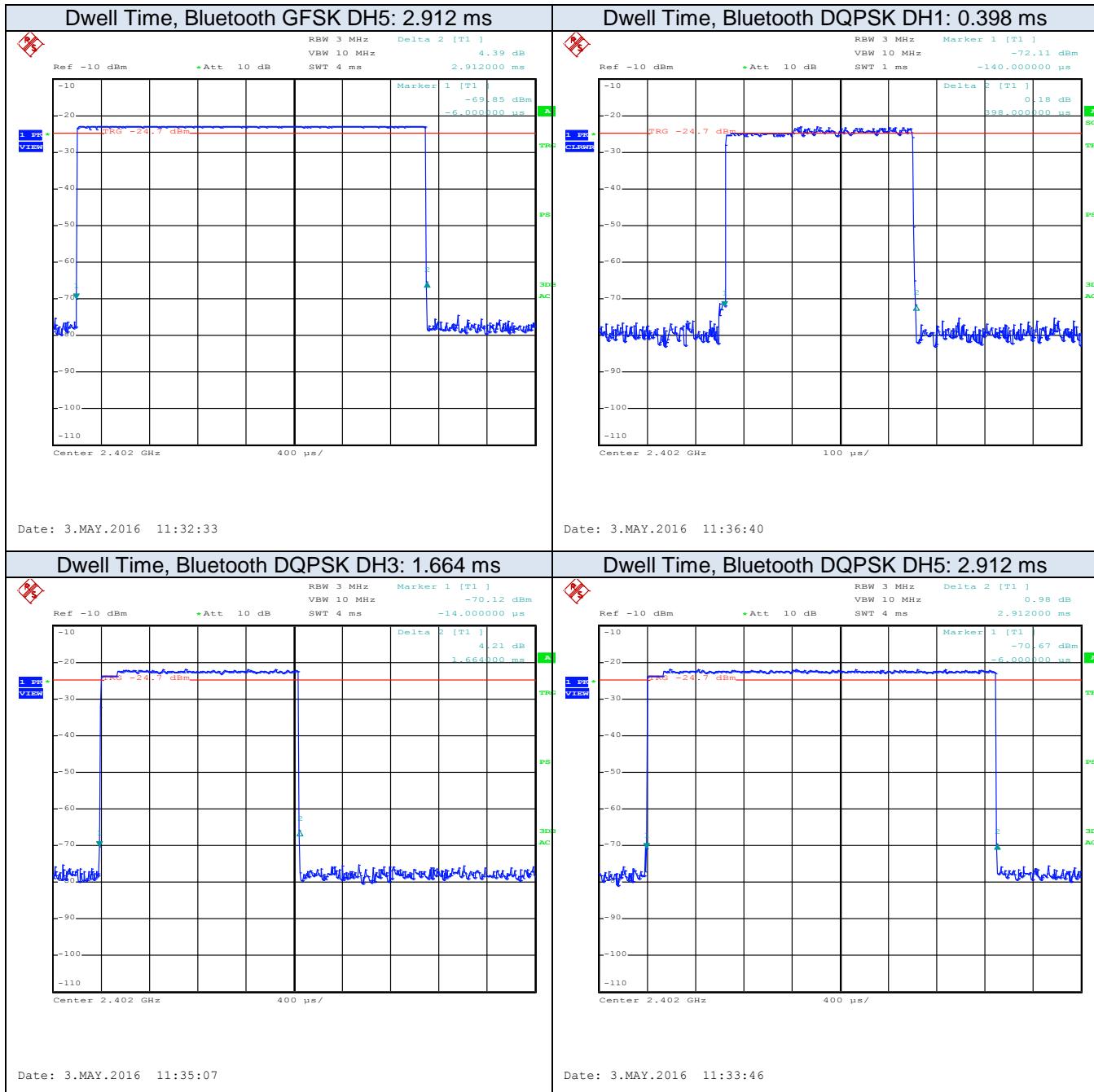
MEASUREMENT METHOD: Measurements were made using spectrum analyser using the appropriate antennas, amplifiers and filters.

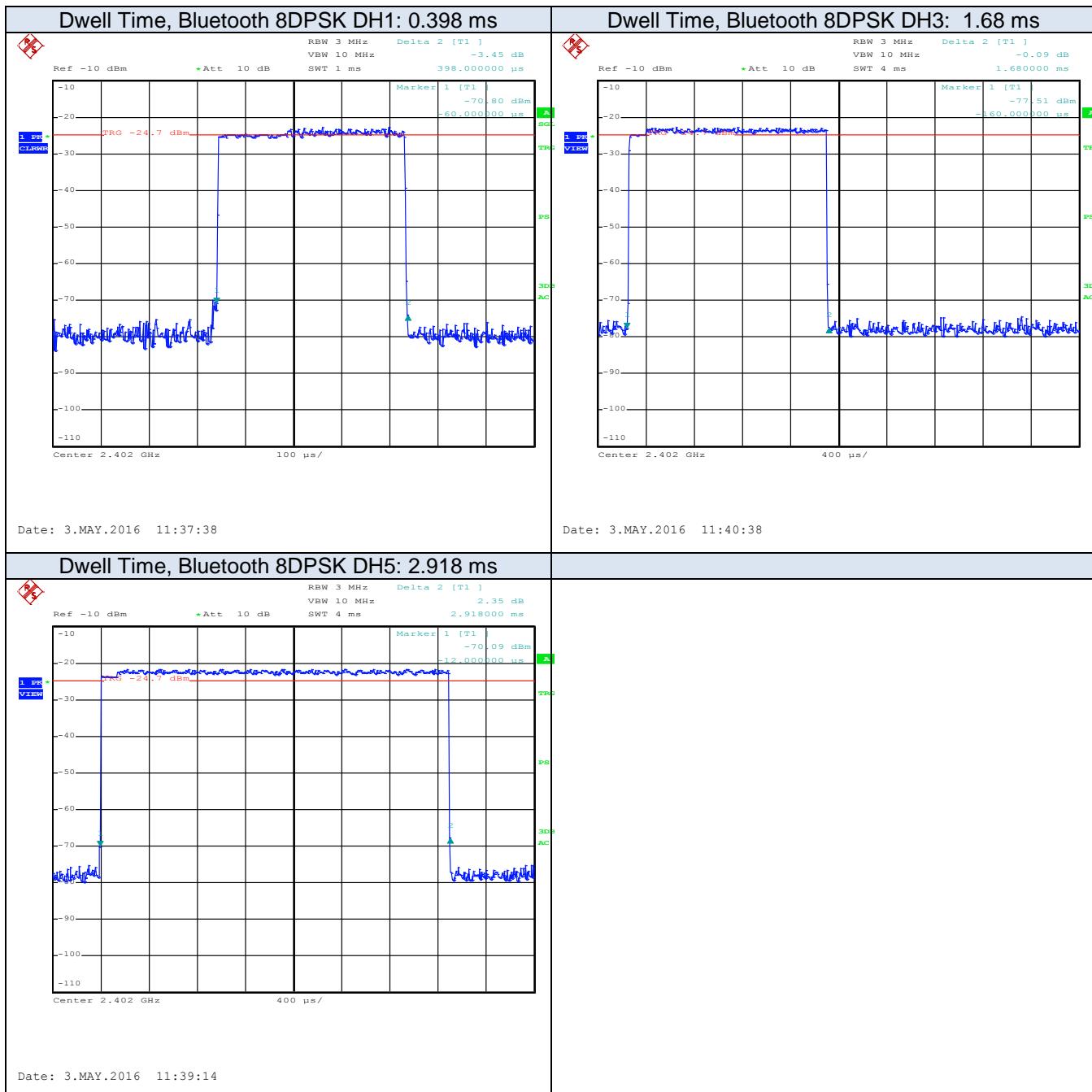
DEVICE DESCRIPTIONS: As described in the above EUT description and setup section.

RESULTS: Compliance standard is confirmed

DATA & PLOT:









Part 11 – RF Exposure Evaluation

DATE: July 15, 2016

TEST STANDARD: RSS-102 Section 2.5.2

FCC 47 CFR §2.1091 Radiofrequency radiation exposure evaluation: mobile devices & §1.1310 Radiofrequency radiation exposure limits.

TEST CONDITIONS: Indoor

MINIMUM STANDARD: RSS-102 Section 2.5.2:

Exemption Limits for Routine Evaluation – RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

..... at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;.....

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

FCC 47 CFR §1.1310 Radiofrequency radiation exposure limits:

Limits for General Population/Uncontrolled Exposure at Frequency range 1500-100000 MHz: 1.0 mW/cm²

Exposure Evaluation:

- 1) The highest conducted power measured was 19.62dBm when the EUT was operated at 2412 MHz in Wi-Fi 802.11b mode.
- 2) The Antenna gain: 2.1dBi.
- 3) E.I.R.P = 19.62dBm + 2.1dBi = 21.72dBm = 158mW
- 4) Power Density at 20cm distance = $158\text{mW}/(4\pi \times 3.14 \times 20^2 \text{ cm}^2)$ = 0.03mW/cm²

Conclusion:

The radiated emissions of EUT is far below the exemption limit 2.7W as per RSS-102 Section 2.5.2.

The maximum power density at 20 cm distance is 0.03mW/cm² and is far below the limit 1.0 mW/cm² as per FCC 47 CFR §2.1091 & §1.1310

The EUT is compatible with the above standards



Part 12 - Frequency Stability

DATE: April 28, 2016

TEST STANDARD: FCC Part 15.215(c) and RSS-Gen Issue 4 (8.11)

MINIMUM STANDARD: Not specified.

TEST SETUP: The transmitter of the EUT was set for Carrier Wave (CW) mode and the lowest and highest channel Frequency was measured at each Temperature setting, after the Transmitter stabilized at the temperature.

MEASUREMENT METHOD: Measurements were made using a Spectrum Analyzer with 120kHz RBW Average detector while directly connected to the EUT through the antenna port.

Measurement Data:

Modulation	Channel	Frequency at -30 °C	Frequency at 20 °C	Frequency at 55 °C
		GHz	GHz	GHz
Bluetooth GFSK DH5	Low	2.402110	2.402110	2.402102
	High	2.480310	2.480303	2.480294
Bluetooth π/4DQPSK DH5	Low	2.402110	2.402106	2.402102
	High	2.480309	2.480307	2.480301
Bluetooth 8DPSK DH5	Low	2.402114	2.402107	2.402106
	High	2.480312	2.480308	2.480305
Bluetooth GFSK DH1	Low	2.402113	2.402105	2.402104
	High	2.480307	2.480301	2.480293
Bluetooth π/4DQPSK DH1	Low	2.402119	2.402109	2.402103
	High	2.480308	2.480301	2.480293
Bluetooth 8DPSK DH1	Low	2.402102	2.402102	2.402097
	High	2.480316	2.480307	2.480302
Bluetooth GFSK DH3	Low	2.402107	2.402103	2.402094
	High	2.480308	2.480301	2.480299
Bluetooth π/4DQPSK DH3	Low	2.402111	2.402103	2.402094
	High	2.480303	2.480301	2.480294
Bluetooth 8DPSK DH3	Low	2.402110	2.402107	2.402106
	High	2.480317	2.480309	2.480302



Part 13- Radiated Emissions (Unintentional Mode)

DATE: April 18, 2016

TEST STANDARD: FCC CFR47 Part 15 Subpart B; RSS Gen issue 4, ICES-003 Issue 6

MINIMUM STANDARD: Except as provided elsewhere in FCC Part 15.249 and RSS-247 Issue 1, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

Frequency (MHz)	Field Strength (dB μ V/m) at 3m
30 – 88	40
88 – 216	43.5
216 - 960	46
960 – above	54

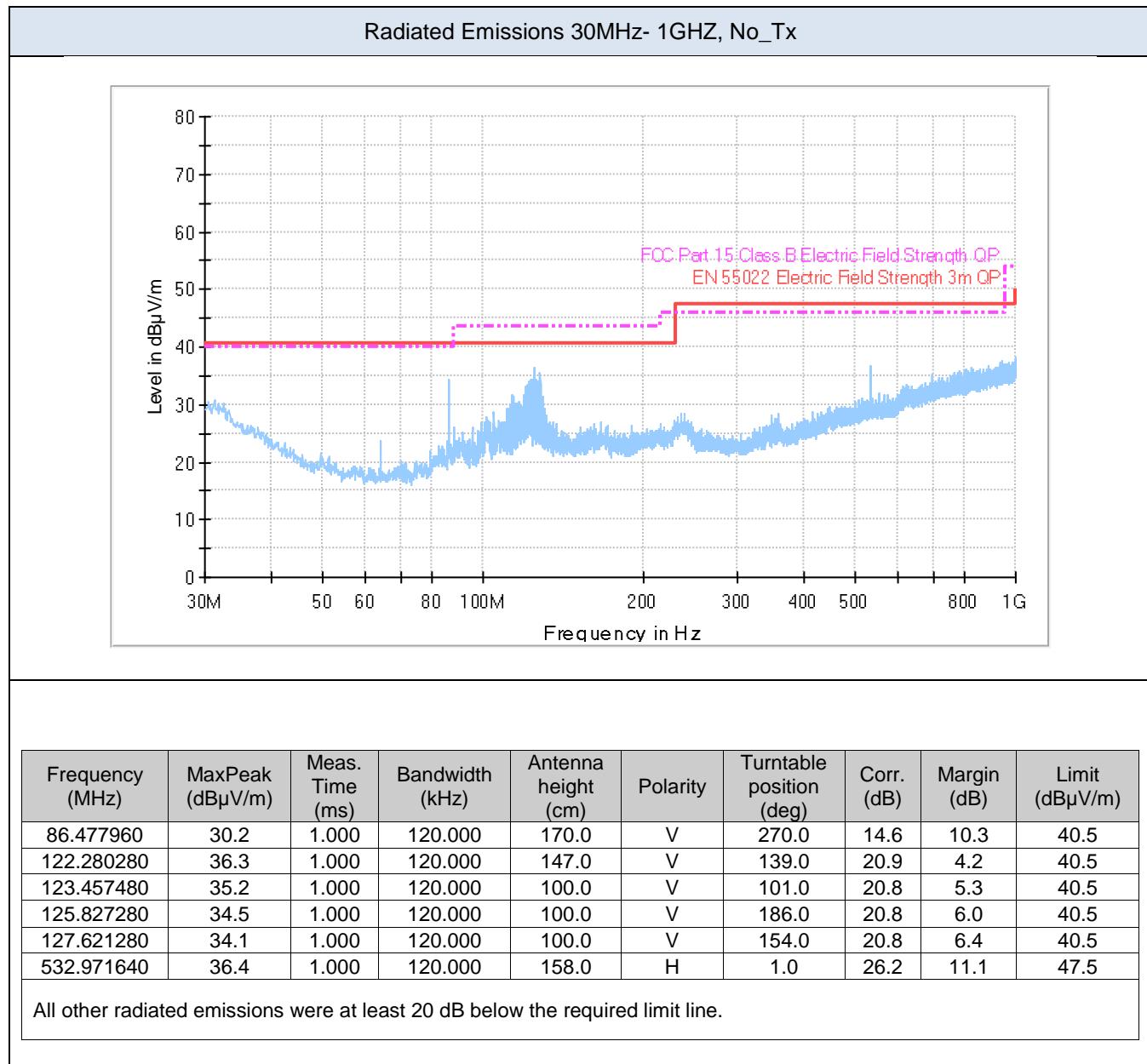
Note: In the above emission table, the tighter limit applies at the band edges.

TEST SETUP: The EUT was placed on a turntable, which is 0.8 m above ground plane. Emissions in both horizontal and vertical polarizations were measured while rotating the EUT on a turntable and moving the receiving antenna from 1m to 4 m high to maximize the emissions signal strength. The equipment was set up in a 3-meter Semi Anechoic Chamber for preliminary measurements and finals were completed in 3m/10m Open Air Test Site at 3 meters.

PERFORMANCE: Complies with standard.



MEASUREMENT DATA & PLOT:





Part 14 – AC Mains Conducted Emissions

DATE: April 18, 2016

TEST STANDARD: FCC CFR47 Part 15 Subpart B; RSS Gen issue 4, ICES-003 Issue 6

MINIMUM STANDARD: Class B Limit:

Frequency (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.5 – 5	56	46
5 – 30	60	50

Note 1 The lower limit shall apply at the transition frequencies
Note 2 The limit decreases linearly with the logarithm of the frequency in the 0.15 to 0.50 MHz..

TEST SETUP: The EUT was connected to the conducted emissions LISN apparatus. The equipment was operated and tested at 120Vac 60Hz while in continuous mode of operation.

METHOD OF MEASUREMENT: Measurements were made using a test receiver with 9 kHz bandwidth, quasi-peak and average detector.

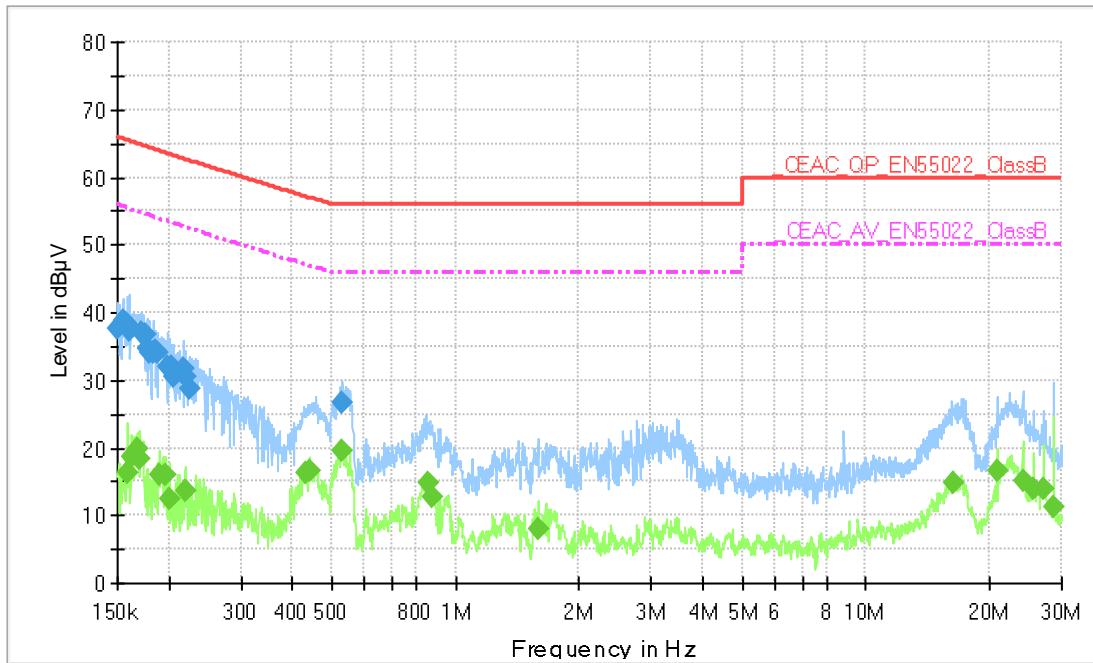
DEVICE DESCRIPTIONS: As described in the equipment test section above.

PERFORMANCE: Complies with Standard

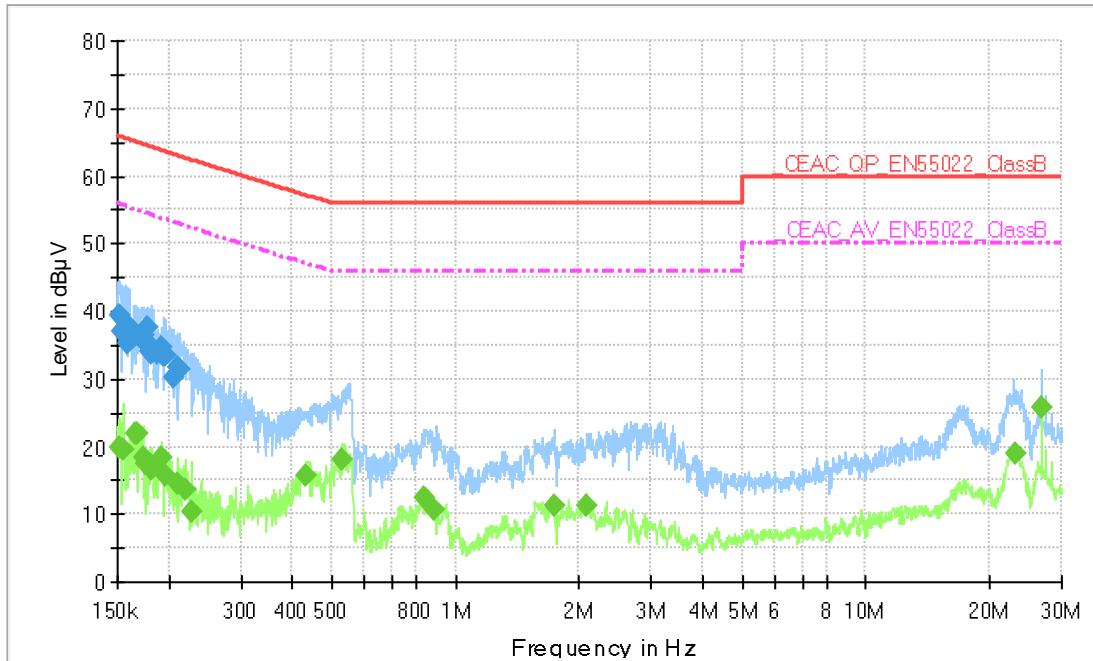


DATA & PLOT:

Pre-tests were performed to find out the worst case which is the transmitters of both of Wi-Fi b low channel and Bluetooth high channel on



Plot of 120V/60Hz AC main conducted emissions, Line 1, Tx-Off



Plot of 120V/60Hz AC main conducted emissions, Line 2, Tx-Off



Quasi Peak Data of 120V/60Hz AC main conducted emissions, Line 1, Tx-Off

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150601	37.7	1000.000	9.000	On	0.7	28.3	66.0
0.154564	38.7	1000.000	9.000	On	0.7	27.0	65.7
0.158314	38.3	1000.000	9.000	On	0.7	27.2	65.5
0.160223	37.3	1000.000	9.000	On	0.7	28.1	65.4
0.170802	37.1	1000.000	9.000	On	0.7	27.7	64.8
0.175647	36.7	1000.000	9.000	On	0.7	27.9	64.6
0.176703	34.5	1000.000	9.000	On	0.7	30.0	64.5
0.177766	34.7	1000.000	9.000	On	0.7	29.8	64.5
0.179550	34.3	1000.000	9.000	On	0.7	30.1	64.4
0.180269	33.9	1000.000	9.000	On	0.7	30.5	64.4
0.183907	34.0	1000.000	9.000	On	0.7	30.2	64.2
0.185754	34.3	1000.000	9.000	On	0.7	29.8	64.1
0.187994	34.2	1000.000	9.000	On	0.6	29.8	64.0
0.199607	31.9	1000.000	9.000	On	0.6	31.6	63.5
0.203635	32.1	1000.000	9.000	On	0.6	31.2	63.3
0.206091	30.5	1000.000	9.000	On	0.6	32.7	63.2
0.217080	31.6	1000.000	9.000	On	0.6	31.2	62.8
0.218822	30.5	1000.000	9.000	On	0.6	32.2	62.7
0.224580	28.6	1000.000	9.000	On	0.6	33.9	62.5
0.531323	26.6	1000.000	9.000	On	0.5	29.4	56.0

Average Data of 120V/60Hz AC main conducted emissions, Line 1, Tx-Off

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158314	16.3	1000.000	9.000	On	0.7	39.2	55.5
0.162156	18.6	1000.000	9.000	On	0.7	36.7	55.3
0.167089	20.0	1000.000	9.000	On	0.7	35.0	55.0
0.169781	18.4	1000.000	9.000	On	0.7	36.5	54.9
0.190642	16.0	1000.000	9.000	On	0.6	37.8	53.8
0.196835	15.9	1000.000	9.000	On	0.6	37.7	53.6
0.200807	12.4	1000.000	9.000	On	0.6	41.0	53.4
0.219698	13.6	1000.000	9.000	On	0.6	39.0	52.6
0.432498	16.3	1000.000	9.000	On	0.5	30.8	47.1
0.439466	16.6	1000.000	9.000	On	0.5	30.4	47.0
0.531323	19.5	1000.000	9.000	On	0.5	26.5	46.0
0.858247	14.7	1000.000	9.000	On	0.5	31.3	46.0
0.879073	12.8	1000.000	9.000	On	0.5	33.2	46.0
1.597620	8.1	1000.000	9.000	On	0.5	37.9	46.0
16.414848	14.7	1000.000	9.000	On	0.6	35.3	50.0
20.862360	16.6	1000.000	9.000	On	0.7	33.4	50.0
24.138324	15.1	1000.000	9.000	On	0.7	34.9	50.0
25.629419	14.0	1000.000	9.000	On	0.7	36.0	50.0
27.158306	13.8	1000.000	9.000	On	0.8	36.2	50.0
28.606416	11.4	1000.000	9.000	On	0.7	38.6	50.0

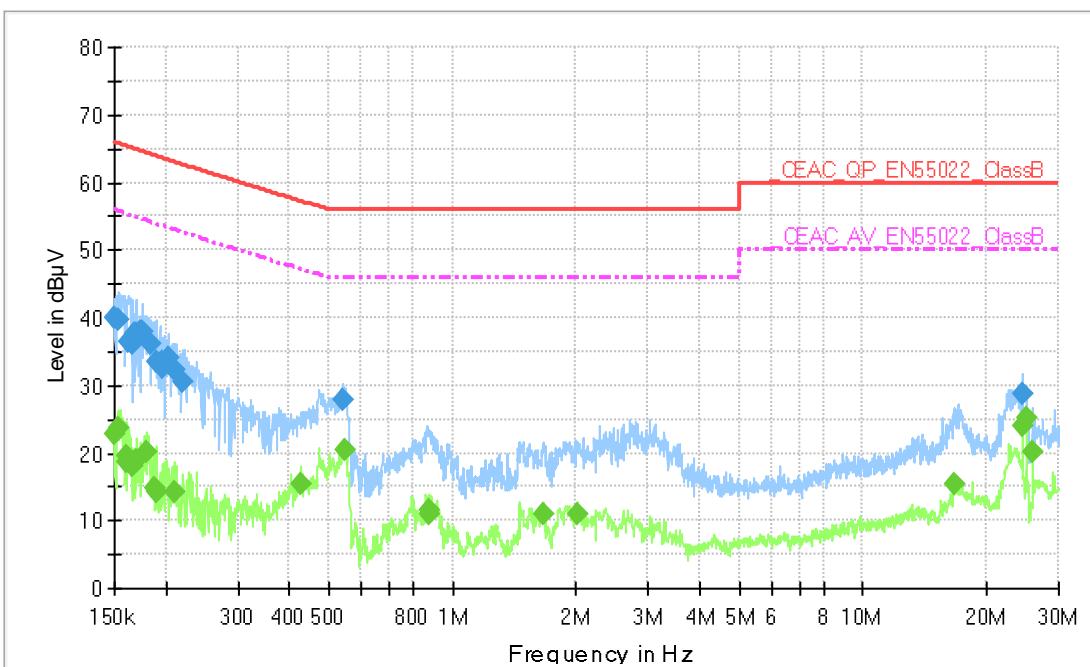


Quasi Peak Data of 120V/60Hz AC main conducted emissions, Line 2, Tx-Off

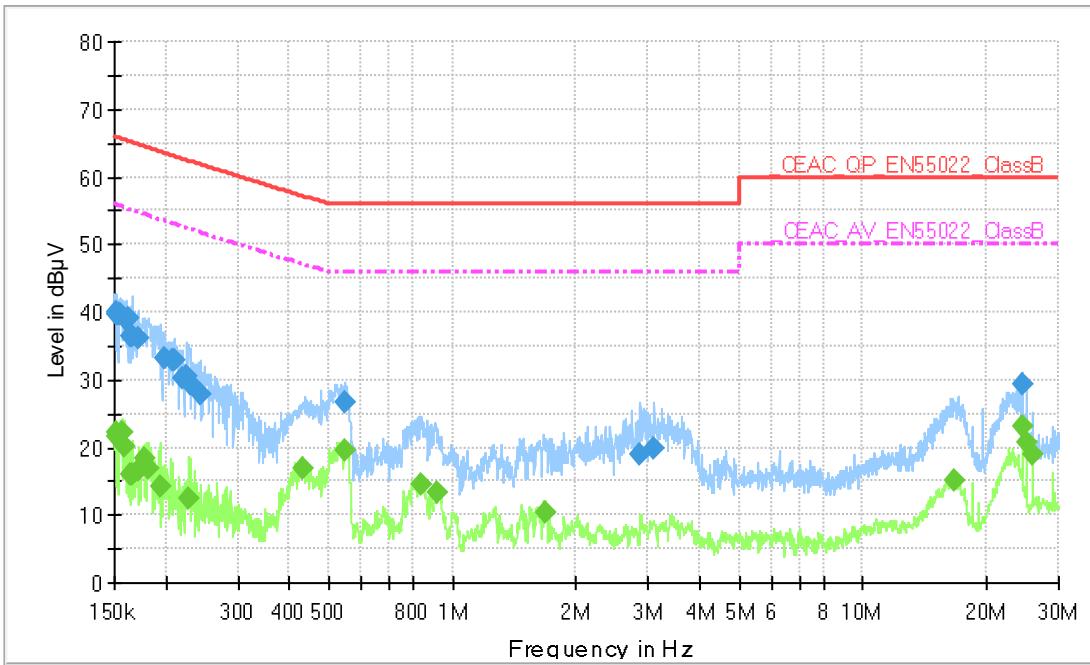
Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150902	39.5	1000.000	9.000	On	0.7	26.4	65.9
0.153947	37.2	1000.000	9.000	On	0.7	28.6	65.8
0.156740	37.5	1000.000	9.000	On	0.7	28.1	65.6
0.157368	36.5	1000.000	9.000	On	0.7	29.1	65.6
0.159266	35.3	1000.000	9.000	On	0.7	30.2	65.5
0.159904	37.6	1000.000	9.000	On	0.7	27.8	65.4
0.164768	36.3	1000.000	9.000	On	0.7	28.9	65.2
0.173554	36.4	1000.000	9.000	On	0.7	28.3	64.7
0.174947	35.1	1000.000	9.000	On	0.7	29.5	64.6
0.177057	37.7	1000.000	9.000	On	0.7	26.8	64.5
0.178477	35.4	1000.000	9.000	On	0.7	29.1	64.5
0.179192	34.0	1000.000	9.000	On	0.7	30.4	64.4
0.182079	33.7	1000.000	9.000	On	0.7	30.6	64.3
0.187244	33.8	1000.000	9.000	On	0.6	30.2	64.0
0.192941	34.7	1000.000	9.000	On	0.6	29.1	63.8
0.195268	33.4	1000.000	9.000	On	0.6	30.3	63.7
0.196835	33.6	1000.000	9.000	On	0.6	30.0	63.6
0.205269	30.3	1000.000	9.000	On	0.6	32.9	63.2
0.210250	31.7	1000.000	9.000	On	0.6	31.3	63.0
0.213638	31.5	1000.000	9.000	On	0.6	31.4	62.9

Average Data of 120V/60Hz AC main conducted emissions, Line 2, Tx-Off

Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150902	19.8	1000.000	9.000	On	0.7	36.1	55.9
0.155493	19.5	1000.000	9.000	On	0.7	36.2	55.7
0.165428	21.9	1000.000	9.000	On	0.7	33.2	55.1
0.167758	21.8	1000.000	9.000	On	0.7	33.2	55.0
0.173554	18.5	1000.000	9.000	On	0.7	36.3	54.7
0.174947	17.5	1000.000	9.000	On	0.7	37.1	54.6
0.180630	16.5	1000.000	9.000	On	0.7	37.8	54.3
0.192941	18.3	1000.000	9.000	On	0.6	35.4	53.7
0.195658	15.8	1000.000	9.000	On	0.6	37.8	53.6
0.210250	14.4	1000.000	9.000	On	0.6	38.6	53.0
0.219259	13.6	1000.000	9.000	On	0.6	39.0	52.6
0.228198	10.5	1000.000	9.000	On	0.6	41.8	52.3
0.432498	15.6	1000.000	9.000	On	0.5	31.5	47.1
0.528148	18.2	1000.000	9.000	On	0.5	27.8	46.0
0.834572	12.6	1000.000	9.000	On	0.5	33.4	46.0
0.882593	10.5	1000.000	9.000	On	0.5	35.5	46.0
1.740947	11.1	1000.000	9.000	On	0.5	34.9	46.0
2.096446	11.2	1000.000	9.000	On	0.5	34.8	46.0
23.054171	18.9	1000.000	9.000	On	0.7	31.1	50.0
26.834676	25.8	1000.000	9.000	On	0.8	24.2	50.0



Plot of 120V/60Hz AC main conducted emissions, Line 2, Tx-On



Plot of 120V/60Hz AC main conducted emissions, Line 1, Tx-On



Quasi Peak Data of 120V/60Hz AC main conducted emissions, Line 2, Tx-On

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	40.0	1000.000	9.000	On	0.7	26.0	66.0
0.154255	39.8	1000.000	9.000	On	0.7	25.9	65.7
0.162156	36.3	1000.000	9.000	On	0.7	29.0	65.3
0.165759	36.5	1000.000	9.000	On	0.7	28.6	65.1
0.166423	36.1	1000.000	9.000	On	0.7	29.0	65.1
0.168094	37.7	1000.000	9.000	On	0.7	27.3	65.0
0.170461	37.5	1000.000	9.000	On	0.7	27.4	64.9
0.173208	37.7	1000.000	9.000	On	0.7	27.0	64.7
0.174598	38.0	1000.000	9.000	On	0.7	26.6	64.6
0.175647	37.9	1000.000	9.000	On	0.7	26.7	64.6
0.184644	36.1	1000.000	9.000	On	0.7	28.1	64.2
0.189124	33.6	1000.000	9.000	On	0.6	30.3	63.9
0.193327	33.2	1000.000	9.000	On	0.6	30.6	63.8
0.196050	32.7	1000.000	9.000	On	0.6	30.9	63.6
0.196835	33.4	1000.000	9.000	On	0.6	30.2	63.6
0.203635	34.0	1000.000	9.000	On	0.6	29.3	63.3
0.210250	32.3	1000.000	9.000	On	0.6	30.7	63.0
0.221019	30.7	1000.000	9.000	On	0.6	31.9	62.6
0.539884	27.7	1000.000	9.000	On	0.5	28.3	56.0
24.478295	28.9	1000.000	9.000	On	0.7	31.1	60.0

Average Data of 120V/60Hz AC main conducted emissions, Line 2, Tx-On

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150300	22.9	1000.000	9.000	On	0.7	33.1	56.0
0.152722	23.8	1000.000	9.000	On	0.7	32.0	55.8
0.159584	19.6	1000.000	9.000	On	0.7	35.8	55.4
0.161187	18.6	1000.000	9.000	On	0.7	36.7	55.3
0.166423	18.0	1000.000	9.000	On	0.7	37.1	55.1
0.170461	18.9	1000.000	9.000	On	0.7	35.9	54.8
0.180269	20.2	1000.000	9.000	On	0.7	34.1	54.3
0.188370	14.8	1000.000	9.000	On	0.6	39.2	54.0
0.189124	14.2	1000.000	9.000	On	0.6	39.7	53.9
0.210671	14.3	1000.000	9.000	On	0.6	38.7	53.0
0.424790	15.5	1000.000	9.000	On	0.5	31.7	47.2
0.544216	20.4	1000.000	9.000	On	0.5	25.6	46.0
0.873819	11.0	1000.000	9.000	On	0.5	35.0	46.0
0.879073	11.5	1000.000	9.000	On	0.5	34.5	46.0
1.672750	11.0	1000.000	9.000	On	0.5	35.0	46.0
2.022389	11.0	1000.000	9.000	On	0.5	35.0	46.0
16.712690	15.4	1000.000	9.000	On	0.6	34.6	50.0
24.478295	24.1	1000.000	9.000	On	0.7	25.9	50.0
25.072280	25.1	1000.000	9.000	On	0.7	24.9	50.0
25.990391	20.2	1000.000	9.000	On	0.7	29.8	50.0



Quasi Peak Data of 120V/60Hz AC main conducted emissions, Line 1, Tx-On

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.151204	40.1	1000.000	9.000	On	0.7	25.8	65.9
0.152113	39.8	1000.000	9.000	On	0.7	26.1	65.9
0.153333	39.8	1000.000	9.000	On	0.7	26.0	65.8
0.154873	39.7	1000.000	9.000	On	0.7	26.0	65.7
0.161187	38.8	1000.000	9.000	On	0.7	26.6	65.4
0.162156	39.2	1000.000	9.000	On	0.7	26.1	65.3
0.164768	36.4	1000.000	9.000	On	0.7	28.8	65.2
0.165759	36.4	1000.000	9.000	On	0.7	28.7	65.1
0.170802	36.0	1000.000	9.000	On	0.7	28.8	64.8
0.198414	33.2	1000.000	9.000	On	0.6	30.3	63.5
0.206916	33.0	1000.000	9.000	On	0.6	30.2	63.2
0.209412	32.7	1000.000	9.000	On	0.6	30.4	63.1
0.219259	30.3	1000.000	9.000	On	0.6	32.4	62.7
0.224580	30.6	1000.000	9.000	On	0.6	31.9	62.5
0.230490	29.5	1000.000	9.000	On	0.6	32.7	62.2
0.243752	27.9	1000.000	9.000	On	0.6	33.9	61.8
0.545305	26.8	1000.000	9.000	On	0.5	29.2	56.0
2.868904	18.8	1000.000	9.000	On	0.5	37.2	56.0
3.107598	20.0	1000.000	9.000	On	0.5	36.0	56.0
24.478295	29.4	1000.000	9.000	On	0.7	30.6	60.0

Average Data of 120V/60Hz AC main conducted emissions, Line 1, Tx-On

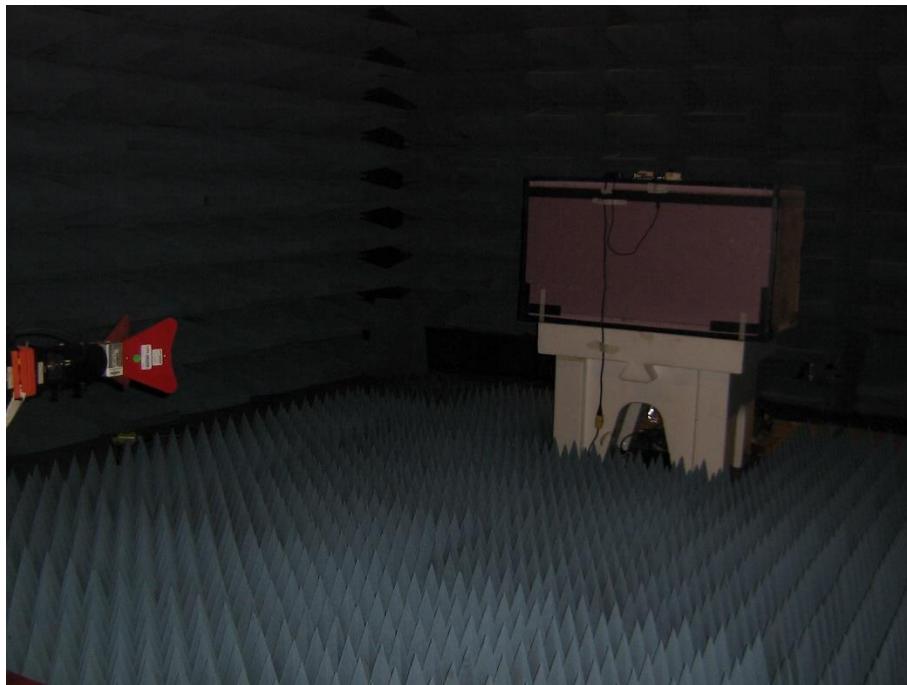
Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.151204	21.6	1000.000	9.000	On	0.7	34.3	55.9
0.152417	22.1	1000.000	9.000	On	0.7	33.8	55.9
0.156115	22.1	1000.000	9.000	On	0.7	33.5	55.6
0.158631	20.3	1000.000	9.000	On	0.7	35.2	55.5
0.164768	15.9	1000.000	9.000	On	0.7	39.2	55.1
0.165759	15.9	1000.000	9.000	On	0.7	39.2	55.1
0.172517	16.7	1000.000	9.000	On	0.7	38.0	54.7
0.177766	18.3	1000.000	9.000	On	0.7	36.2	54.5
0.182079	16.8	1000.000	9.000	On	0.7	37.5	54.3
0.193713	14.4	1000.000	9.000	On	0.6	39.3	53.7
0.228198	12.6	1000.000	9.000	On	0.6	39.7	52.3
0.430773	16.8	1000.000	9.000	On	0.5	30.3	47.1
0.549680	19.6	1000.000	9.000	On	0.5	26.4	46.0
0.834572	14.6	1000.000	9.000	On	0.5	31.4	46.0
0.922253	13.2	1000.000	9.000	On	0.5	32.8	46.0
1.676096	10.3	1000.000	9.000	On	0.5	35.7	46.0
16.679331	15.1	1000.000	9.000	On	0.6	34.9	50.0
24.478295	23.1	1000.000	9.000	On	0.7	26.9	50.0
25.072280	20.8	1000.000	9.000	On	0.7	29.2	50.0
25.990391	19.1	1000.000	9.000	On	0.7	30.9	50.0



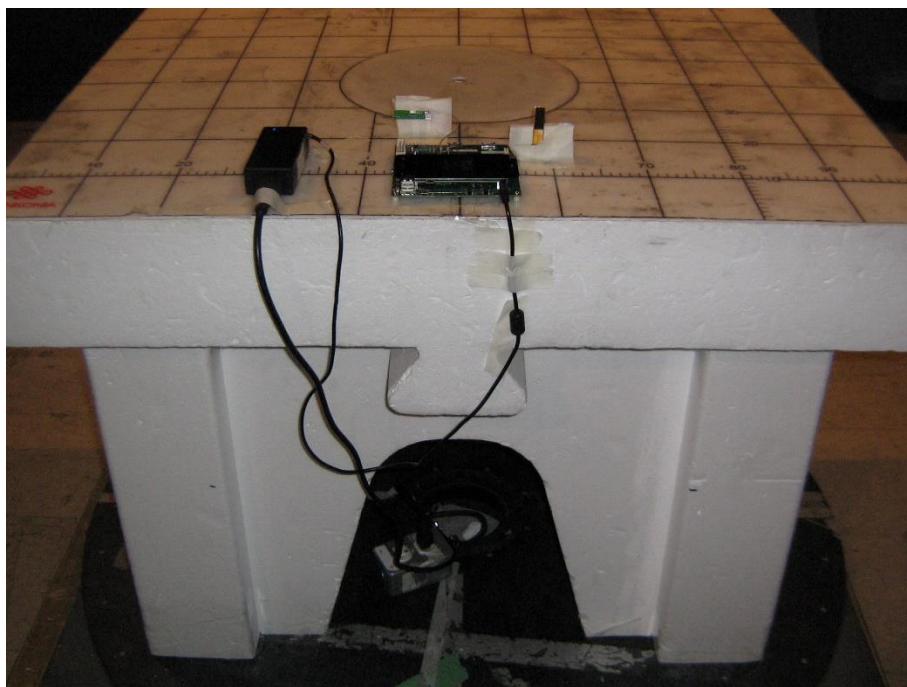
Appendix A: EUT photos during the testing



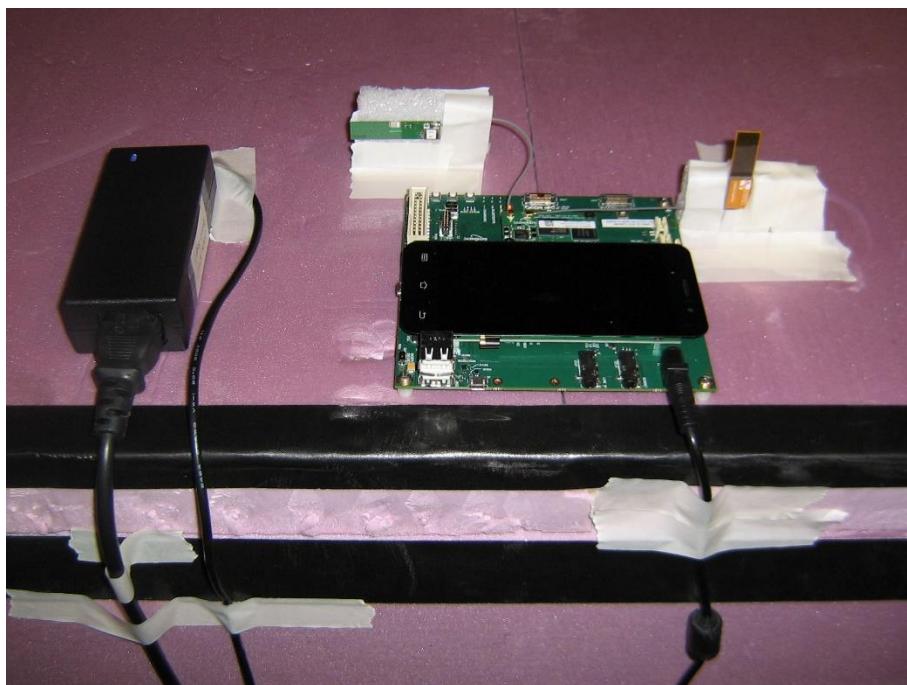
Radiated Emissions Test Setup - 30MHz-1GHz



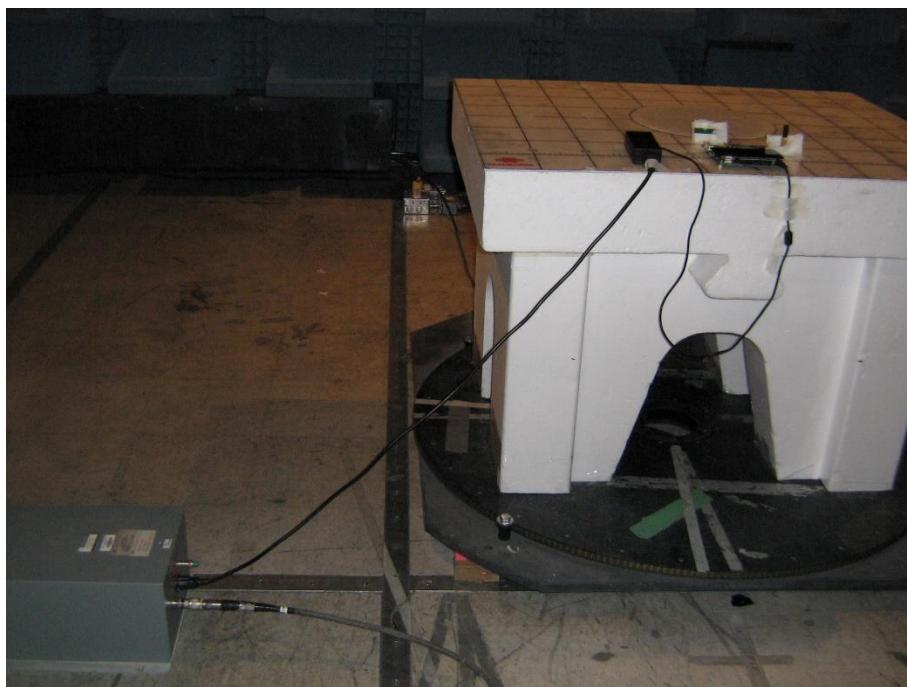
Radiated Emissions Test Setup - 1GHz to 18GHz



Radiated Emissions Test Setup



Radiated Emissions Test Setup



Conducted Emissions Test Setup



End of report

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