

FCC
RF
TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Mobile Phone

ISSUED TO
GUANGDONG OPPO MOBILE TELECOMMUNICATIONS
CORP., LTD

NO.18 HAIBIN ROAD, WUSHA, CHANG'AN, DONGGUAN,
GUANGDONG, CHINA



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Date May 8, 2015

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Date May 8, 2015

Report No.: BL-SZ1540056-601

EUT Type: Mobile Phone

Model Name: OPPO 1206

Brand Name: OPPO

Test Standard: 47 CFR Part 15 Subpart C

FCC ID: R9C-1206

Test conclusion: Pass

Test Date: Apr. 10, 2015 ~ Apr. 20, 2015

Date of Issue: May. 8, 2015

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions</u>
<u>Rev. 01</u>	<u>Apr. 24, 2015</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>May. 6, 2015</u>	<u>The Second Issue</u>
<u>Rev. 03</u>	<u>May. 8, 2015</u>	<u>The Third Issue</u>

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6683 3402
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625. The laboratory has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005. The accreditation certificate number is TL-588. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Announce

- (1) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (2) The test report is invalid if there is any evidence and/or falsification.
- (3) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (4) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant

Applicant	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD
Address	NO.18 HAIBIN ROAD, WUSHA, CHANG'AN, DONGGUAN, GUANGDONG, CHINA

2.2 Manufacturer

Manufacturer	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD
Address	NO.18 HAIBIN ROAD, WUSHA, CHANG'AN, DONGGUAN, GUANGDONG, CHINA

2.3 General Description for Equipment under Test (EUT)

EUT Type	Mobile Phone
Model Name	OPPO 1206
Hardware Version	11
Software Version	ColorOS V2.0.1i
Network and Wireless connectivity	Bluetooth 2.1 + EDR, Bluetooth 4.0 Low Energy (BLE), WIFI
About the Product	The equipment is Mobile Phone, it contains Bluetooth and WIFI operating at 2.4 GHz ISM band. Only the Bluetooth 2.1+EDR was tested in this report.

2.4 Technical Information

Modulation Technology	FHSS
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Transfer Rate	1 Mbps, 2 Mbps, 3 Mbps
Frequency Range	The frequency range used is 2402 MHz – 2480 MHz; The frequency block is 2400 MHz to 2483.5 MHz.
Number of channel	79 (at intervals of 1 MHz)
Tested Channel	0 (2402 MHz), 39 (2441 MHz), 78 (2480 MHz).
Antenna Type	PIFA Antenna
Antenna Gain	1.1 dBi (All involve the antenna gain test item, has been included in the final results)

Note: The above EUT information in section 2.3 and 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	OPPO
	Model No.	BLP593
	Serial No.	N/A
	Capacitance	2000 mAh
	Rated Voltage	3.8 V
	Extreme Voltage	Low: 3.6 V / High: 4.35 V
Ancillary Equipment 2	Charger 1	
	Brand Name	OPPO
	Model No.	AK901
	Rated Input	~ 100-240 V, 0.2 A, 50/60 Hz
	Rated Output	= 5 V, 1 A
Ancillary Equipment 3	Charger 2	
	Brand Name	OPPO
	Model No.	S01A22
	Rated Input	~ 100-240 V, 0.2 A, 50/60 Hz
	Rated Output	= 5 V, 1 A
Ancillary Equipment 4	Charger 3	
	Brand Name	OPPO
	Model No.	S005SU0500100
	Rated Input	~ 100-240 V, 0.15 A, 50/60 Hz
	Rated Output	= 5V, 1 A
Ancillary Equipment 5	Earphone	
	Length	1.2 m
Ancillary Equipment 6	USB Cable	
	Length	1.0 m

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C (10-1-14 Edition)	Miscellaneous Wireless Communications Services
2	FCC PUBLIC NOTICE DA 00-705 (Mar. 30, 2000)	Filling and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems
3	ANSI C63.4-2014	American National Standard for Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass ^{Note 1}
2	Number of Hopping Frequency	15.247(a)	ANNEX A.1	Pass
3	Peak Output Power	15.247(b)	ANNEX A.2	Pass
4	Occupied Bandwidth	15.247(a)	ANNEX A.3	Pass
5	Carrier Frequency Separation	15.247(a)	ANNEX A.4	Pass
6	Time of Occupancy (Dwell time)	15.247(a)	ANNEX A.5	Pass
7	Conducted Spurious Emission	15.247(d)	ANNEX A.6	Pass
8	Conducted Emission	15.207	ANNEX A.7	Pass
9	Radiated Spurious Emission	15.209 15.247(d)	ANNEX A.8	Pass
10	Band Edge	15.209 15.247(d)	ANNEX A.9	Pass
Note 1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.				

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	45% - 55%	
Atmospheric Pressure	100 kPa - 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
Working Voltage of the EUT	NV (Normal Voltage)	3.8 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2014.07.10	2015.07.09
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	177746	2014.07.09	2015.07.08
Signal Generator	ROHDE&SCHWARZ	SMB100A	260592	2014.07.21	2015.07.20
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2014.07.23	2015.07.22
Spectrum Analyzer	AGILENT	E4440A	MY45304434	2014.10.18	2015.10.17
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2014.07.07	2015.07.06
LISN	SCHWARZBECK	NSLK 8127	8127-687	2014.07.07	2015.07.06
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2014.07.07	2015.07.06
Power Splitter	KMW	DCPD-LDC	1305003215	2014.07.07	2015.07.06
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2014.07.07	2015.07.06
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2014.07.09	2015.07.08
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2014.07.07	2015.07.06
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2013.07.02	2015.07.01
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2013.07.03	2015.07.02
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2013.07.02	2015.07.01
Test Antenna-Horn(15-26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2013.07.02	2015.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2015.02.28	2016.02.27
Shielded Enclosure	ChangNing	CN-130701	130703	--	--

4.3 Test Configurations

Test Configurations (TC) NO.	Description	
	Signal Description	Operating Frequency
Transmitter		
TC01	GFSK modulation, package type DH5, hopping on	--
TC02	GFSK modulation, package type DH5, hopping off	Ch No. 0/ 2402MHz
TC03	GFSK modulation, package type DH5, hopping off	Ch No. 39/ 2441MHz
TC04	GFSK modulation, package type DH5, hopping off	Ch No. 78/ 2480MHz
TC05	$\pi/4$ -DQPSK modulation, package type DH5, hopping on	--
TC06	$\pi/4$ -DQPSK modulation, package type DH5, hopping off	Ch No. 0/ 2402MHz
TC07	$\pi/4$ -DQPSK modulation, package type DH5, hopping off	Ch No. 39/ 2441MHz
TC08	$\pi/4$ -DQPSK modulation, package type DH5, hopping off	Ch No. 78/ 2480MHz
TC09	8DPSK modulation, package type DH5, hopping on	--
TC10	8DPSK modulation, package type DH5, hopping off	Ch No. 0/ 2402MHz
TC11	8DPSK modulation, package type DH5, hopping off	Ch No. 39/ 2441MHz
TC12	8DPSK modulation, package type DH5, hopping off	Ch No. 78/ 2480MHz

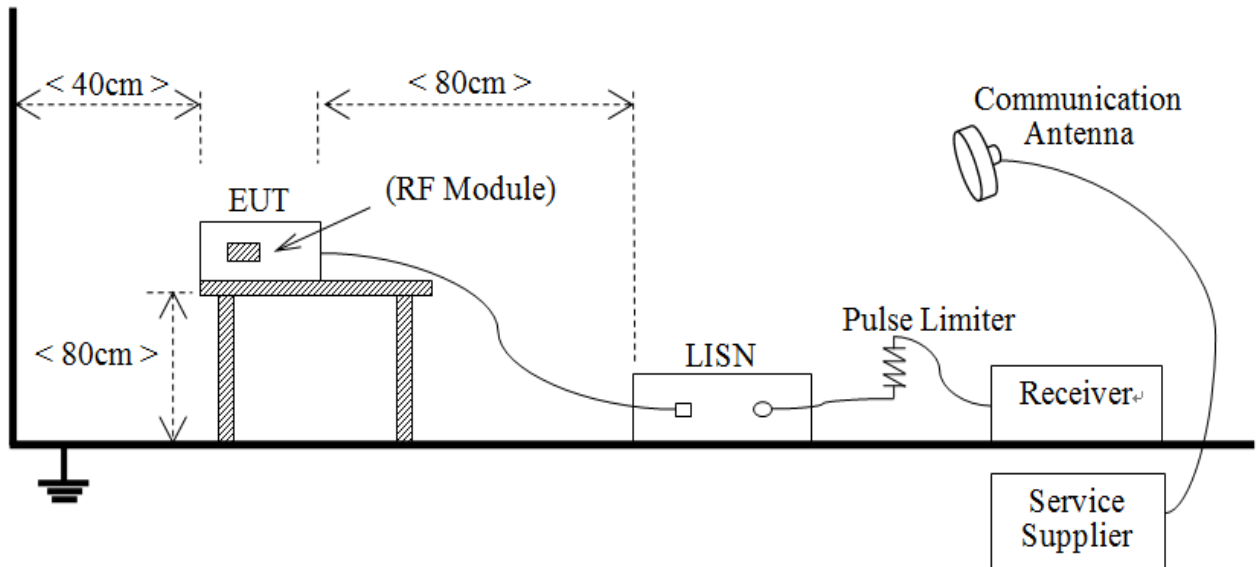
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



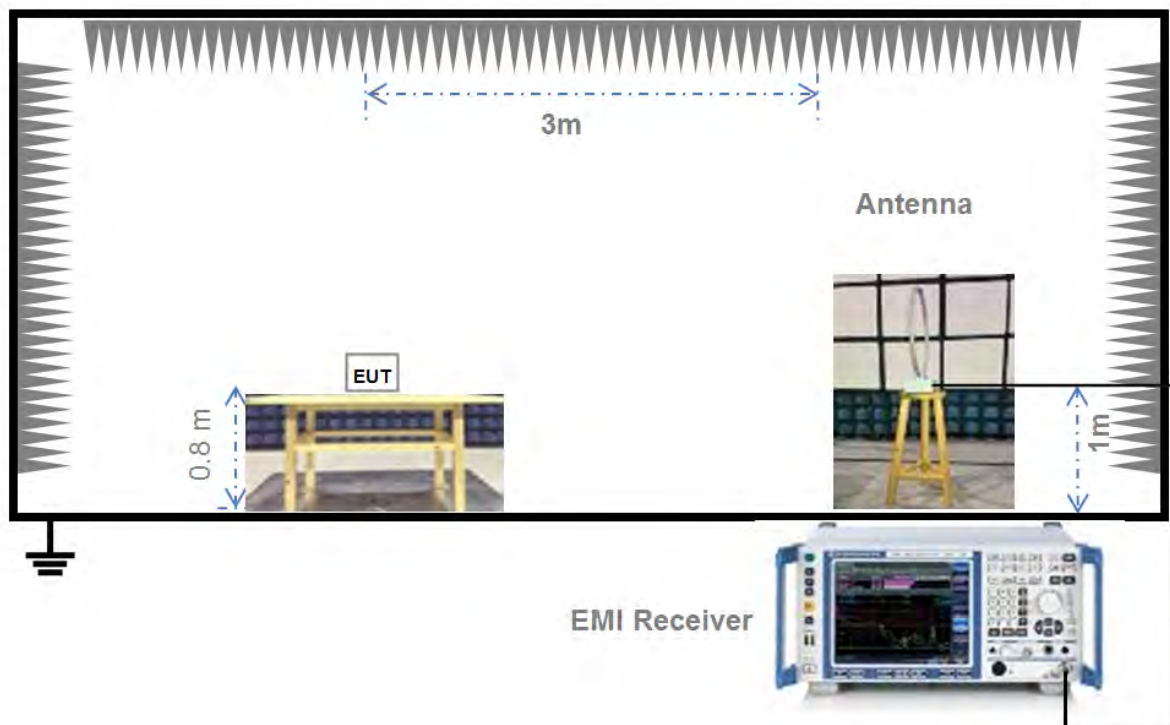
(Diagram 1)

4.4.2 For AC Power Supply Port Test



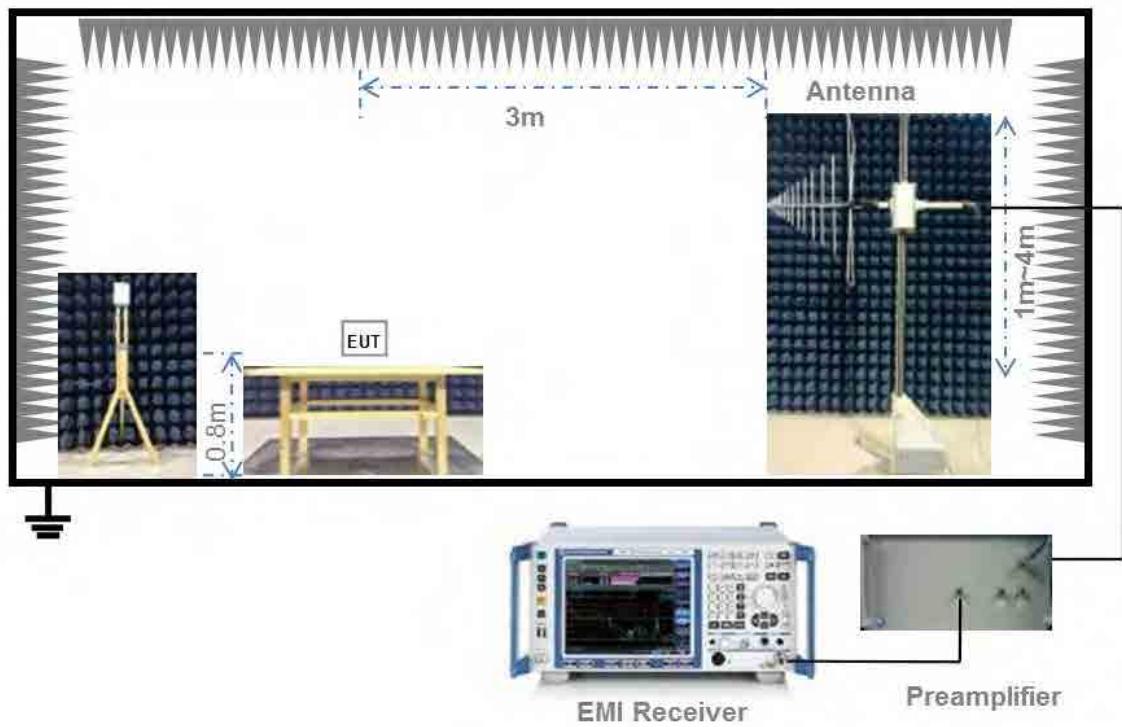
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



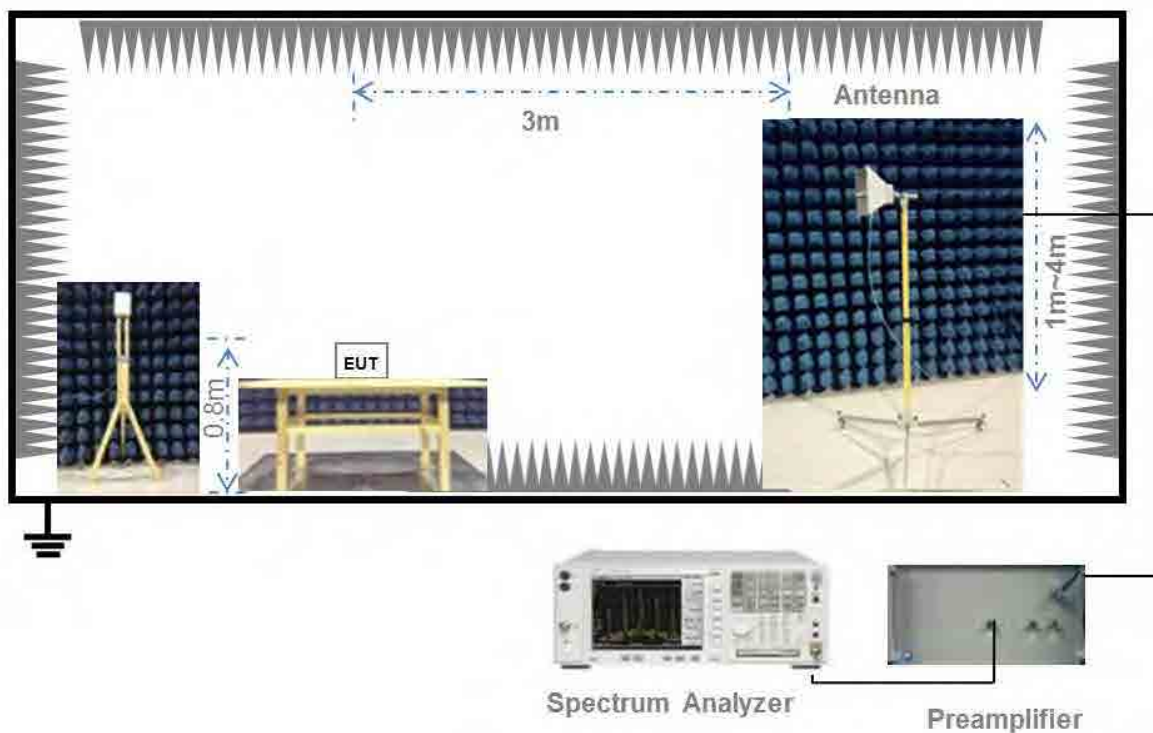
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.5 Test Conditions

Test Case	Test Conditions		
	Test Env.	Test Setup ^{Note 1}	Test Configuration ^{Note 2}
Number of Hopping Frequency	NTNV	Test Setup 1	TC01, TC05, TC09
Peak Output Power	NTNV	Test Setup 1	TC02, TC03, TC04, TC06, TC07, TC08, TC10, TC11, TC12
Occupied Bandwidth	NTNV	Test Setup 1	TC02, TC03, TC04, TC06, TC07, TC08, TC10, TC11, TC12
Carrier Frequency Separation	NTNV	Test Setup 1	TC01, TC05, TC09
Time of Occupancy (Dwell time)	NTNV	Test Setup 1	TC01, TC05, TC09
Conducted Spurious Emission	NTNV	Test Setup 1	TC02, TC03, TC04, TC06, TC07, TC08, TC10, TC11, TC12
Conducted Emission	NTNV	Test Setup 2	TC01, TC02, TC03, TC04, TC05, TC06, TC07, TC08, TC09, TC10, TC11, TC12
Radiated Emission	NTNV	Test Setup 3 Test Setup 4 Test Setup 5	TC01, TC02, TC03, TC04, TC05, TC06, TC07, TC08, TC09, TC10, TC11, TC12
Band Edge	NTNV	Test Setup 5	TC01, TC02, TC04, TC05, TC06, TC08, TC09, TC10, TC12
Note: 1. Please refer to section 4.4 for test setup details. 2. Please refer to section 4.3 for test configuration details.			

4.6 Measurement Results Explanation Example

4.6.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

4.6.2 For radiated band edges and spurious emission test:

Per part 15.35(c), the EUT Bluetooth average emission level could be determined by the peak emission level applying duty cycle correction factor, to represent averaging over the whole pulse train.

The average level is derived from the peak level corrected with "Duty cycle correction factor".

Average Emission Level (dBuV/m) = Peak Emission Level (dBuV/m) + Duty cycle correction factor (dB)

Duty cycle correction factor (dB) = $20 * \log (\text{Duty cycle})$.

Duty cycle = on time / 100 milliseconds

On time = dwell time * hopping number in 100 ms

For example: bluetooth with dwell time 2.9 ms and 3 hops in 100 ms, then

Duty cycle correction factor (dB) = $20 * \log ((2.9 * 3) / 100) = -21.21 \text{ dB}$

Following shows an average computation example with duty cycle correction factor = -21.21 dB, and the peak emission level is 45.61 dBuV/m.

Example:

Average Emission Level (dBuV/m) = Peak Emission Level (dBuV/m) + duty cycle correction factor (dB)
= $45.61 + (-21.21) = 24.4 \text{ (dBuV/m)}$

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Standard Applicable

FCC §15.203 & 15.247(b)

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 a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is An embedded-in	The antenna is welded on the mainboard, can't be replaced by the consumer

Reference Documents	Item
Photo	BT/WIFI/GPS Antenna  BT/WIFI/GPS Antenna Feed Point 

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Number of Hopping Frequency

5.2.1 Limit

FCC §15.247(a) (1) (iii)

Frequency hopping systems operating in the 2400MHz to 2483.5MHz bands shall use at least 15 hopping frequencies.

5.2.2 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW $\geq$ 1% of the span

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.3 Peak Output Power

5.3.1 Test Limit

FCC § 15.247(b)

For frequency hopping systems that operates in the 2400MHz to 2483.5MHz band employing at least 75 hopping channels, the maximum peak output power of the intentional radiator shall not exceed 1Watt.

5.3.2 Test Procedure

The Bluetooth Module operates at hopping-off test mode. The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW > the 20 dB bandwidth of the emission being measured

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize.

5.4 Occupied Bandwidth

5.4.1 Limit

FCC §15.247(a)

The 20dB bandwidth is known as the 99% emission bandwidth, or 20dB bandwidth ($10 \cdot \log 1\% = 20\text{dB}$) taking the total RF output power.

5.4.2 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW $\geq$ 1% of the 20 dB bandwidth

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

5.5 Carrier Frequency Separation

5.5.1 Limit

FCC §15.247(a)

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

5.5.2 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) $\geq$ 1% of the span

Video (or Average) Bandwidth (VBW) $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

5.6 Time of Occupancy (Dwell time)

5.6.1 Limit

FCC §15.247(a)

Frequency hopping systems in the 2400 - 2483.5MHz band shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.6.2 Test Procedure

The average time of occupancy on any channel within the Period can be calculated with formulas:

For DH1 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (1600 / 2) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$

$$\{\text{Period}\} = 0.4s * \{\text{Number of Hopping Frequency}\}$$

For DH3 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (1600 / 4) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$

$$\{\text{Period}\} = 0.4s * \{\text{Number of Hopping Frequency}\}$$

For DH5 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (1600 / 6) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$

$$\{\text{Period}\} = 0.4s * \{\text{Number of Hopping Frequency}\}$$

The lowest, middle and highest channels are selected to perform testing to record the dwell time of each occupation measured in this channel, which is called Pulse Time here.

5.7 Conducted Spurious Emission

5.7.1 Limit

FCC §15.247(d)

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.7.2 Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.8 Conducted Emission

5.8.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.8.2 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

5.9 Radiated Spurious Emission

5.9.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

1. Field Strength ($\text{dB}\mu\text{V/m}$) = $20 \cdot \log[\text{Field Strength } (\mu\text{V/m})]$.
2. In the emission tables above, the tighter limit applies at the band edges.
3. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
4. For above 1000MHz, limit field strength of harmonics: $54\text{dB}\mu\text{V/m}@3\text{m}$ (AV) and $74\text{dB}\mu\text{V/m}@3\text{m}$ (PK).

5.9.2 Test Procedure

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360° , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1 \text{ GHz}$, 100 kHz for $f < 1 \text{ GHz}$

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported

5.10 Band Edge

5.10.1 Limit

FCC §15.209&15.247(d)

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.10.2 Test Procedure

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation

RBW $\geq$ 1% of the span

VBW $\geq$ RBW

Sweep = auto

Detector function = peak /AV

Trace = max hold

Allow the trace to stabilize.

$E \text{ [dB}\mu\text{V/m]} = UR + AT + A\text{Factor [dB]}; AT = LCable \text{ loss [dB]} - G\text{preamp [dB]}$

AT: Total correction Factor except Antenna

UR: Receiver Reading

Gpreamp: Preamplifier Gain

AFactor: Antenna Factor at 3m

ANNEX A TEST RESULT

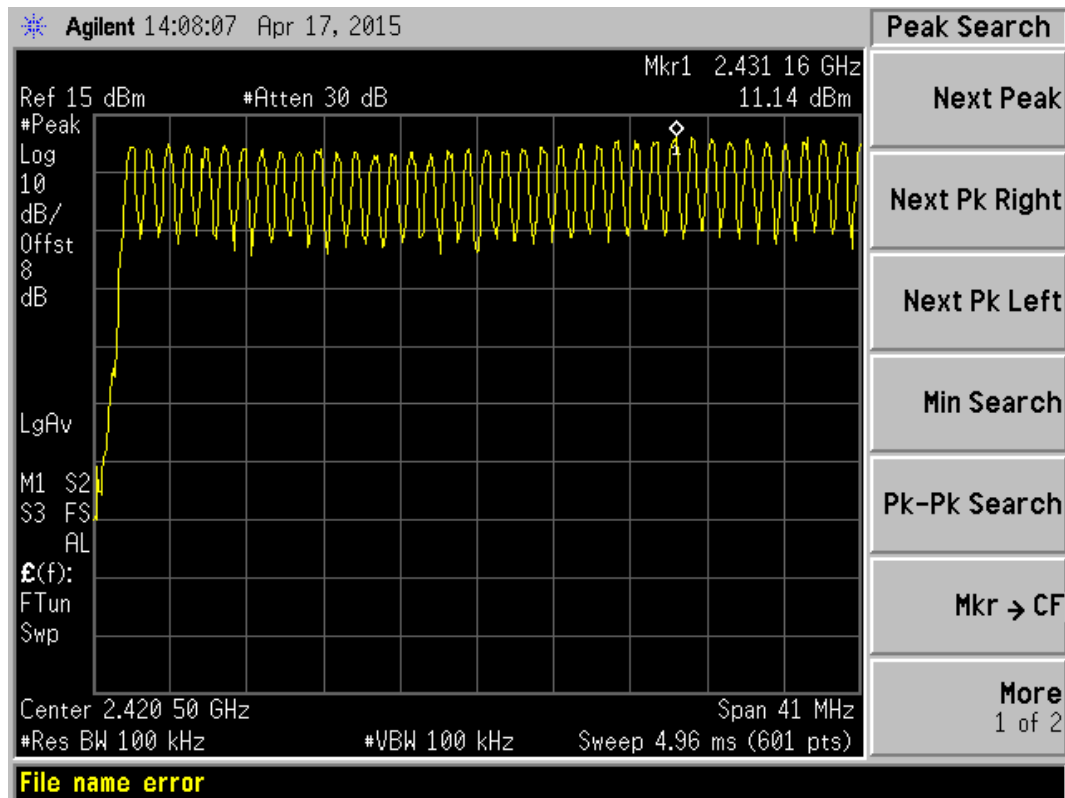
A.1 Number of Hopping Frequency

Test Data

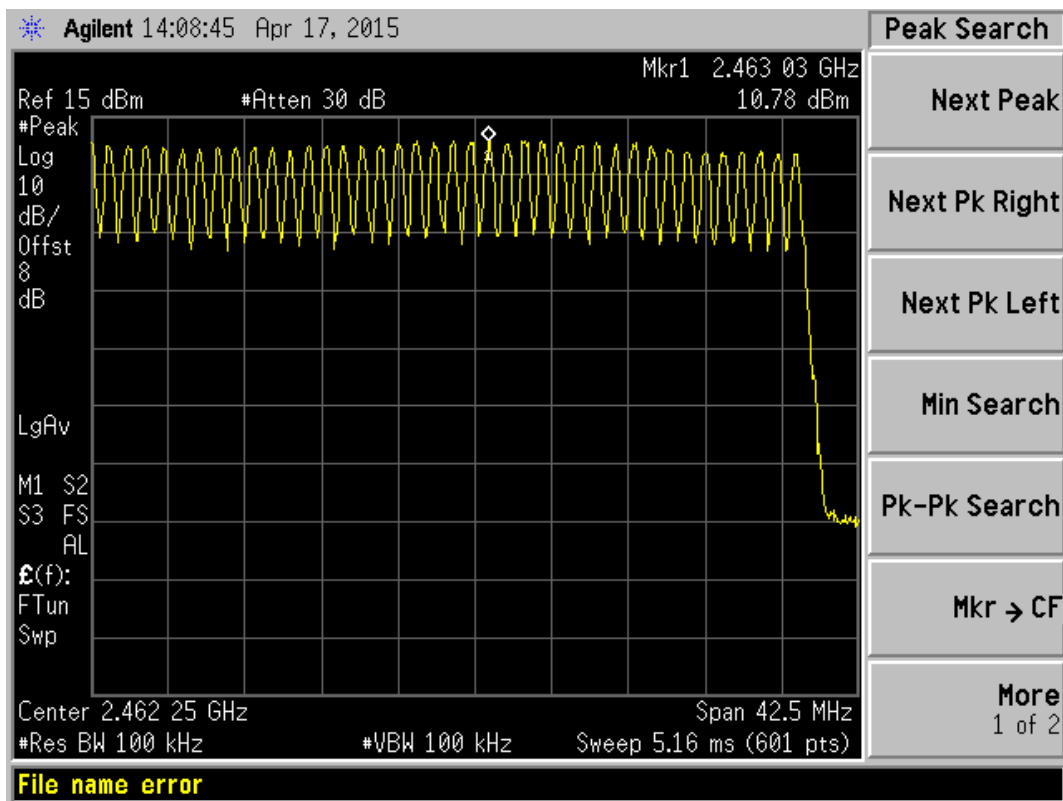
Test Mode	Frequency Block (MHz)	Measured Channel Numbers	Min. Limit	Verdict
GFSK	2400 - 2483.5	79	15	Pass
π/4-DQPSK	2400 - 2483.5	79	15	Pass
8-DPSK	2400 - 2483.5	79	15	Pass

Test plots

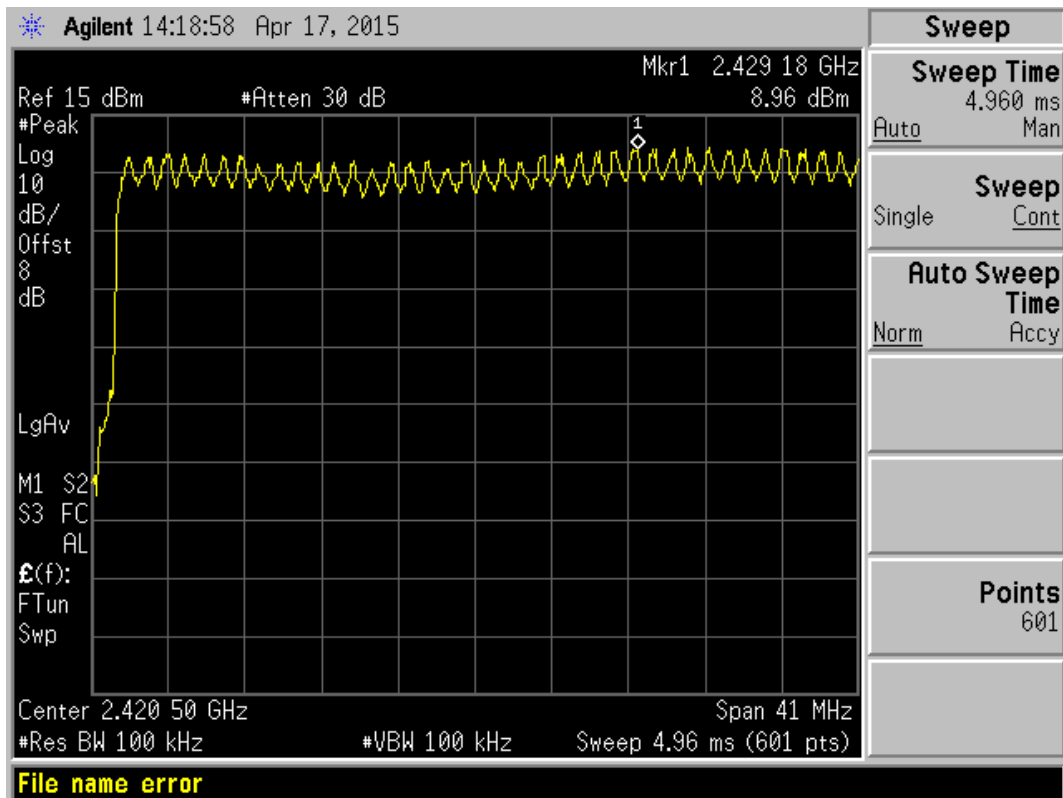
GFSK 2.4 GHz ~ 2.4415 GHz



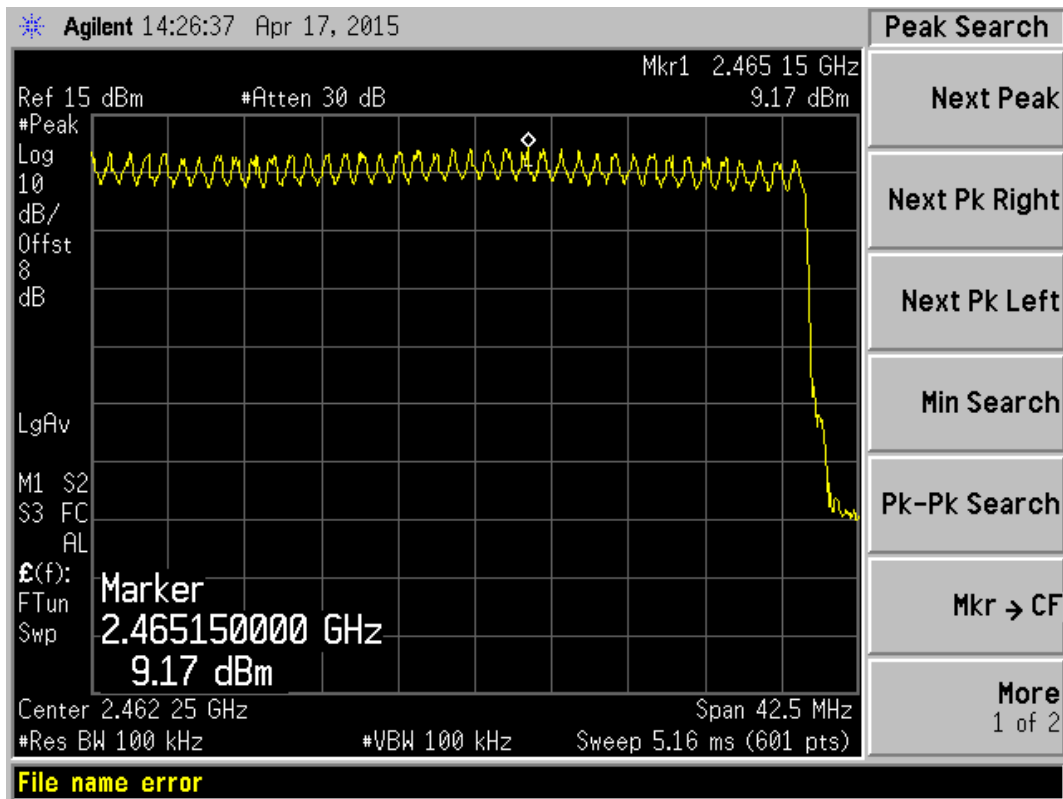
GFSK 2.4415 GHz ~ 2.4835 GHz



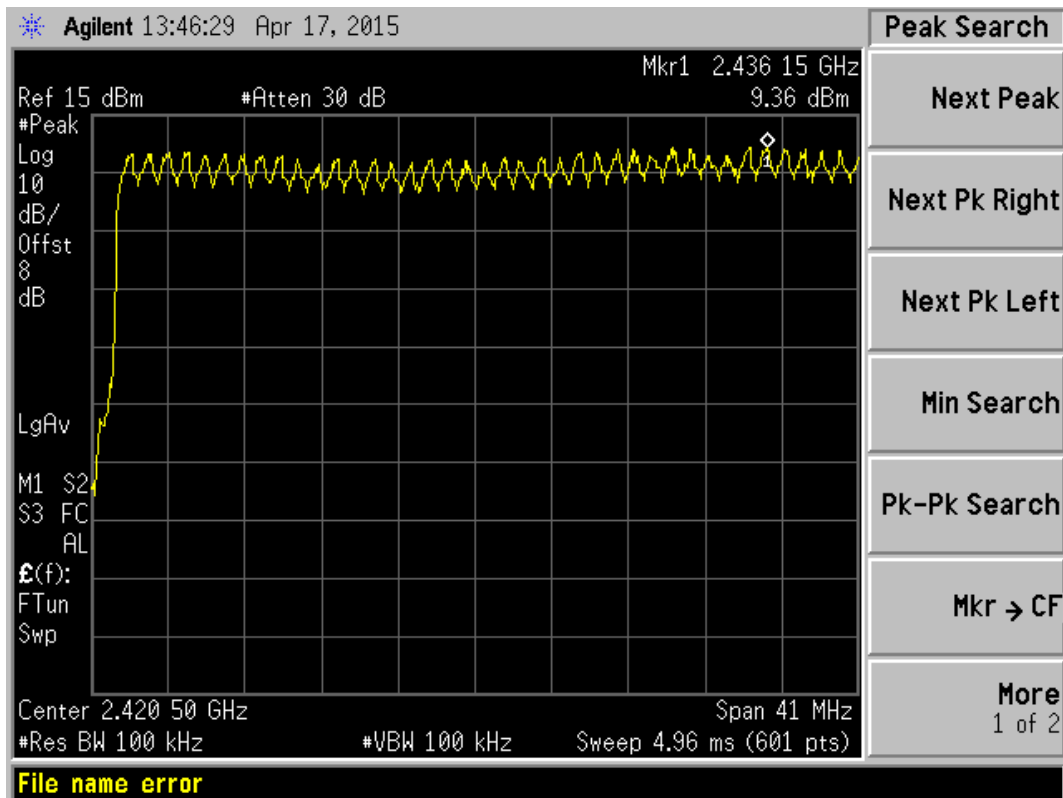
1/4-DQPSK 2.4 GHz ~ 2.4415 GHz



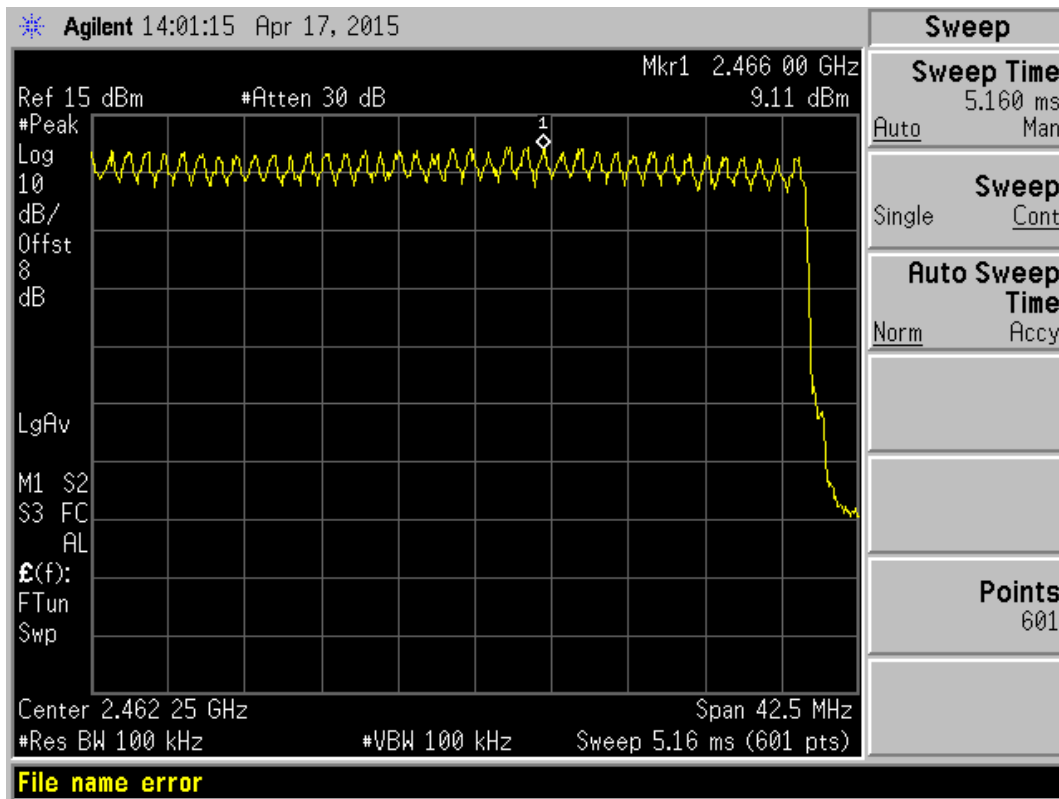
□/4-DQPSK 2.4415 GHz ~ 2.4835 GHz



8-DPSK 2.4 GHz ~ 2.4415 GHz



8-DPSK 2.4415 GHz ~ 2.4835 GHz



A.2 Peak Output Power

Test Data

GFSK Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.18	10.42	30	1000	Pass
Middle	10.81	12.05			Pass
High	9.44	8.79			Pass

□/4-DQPSK Mode:

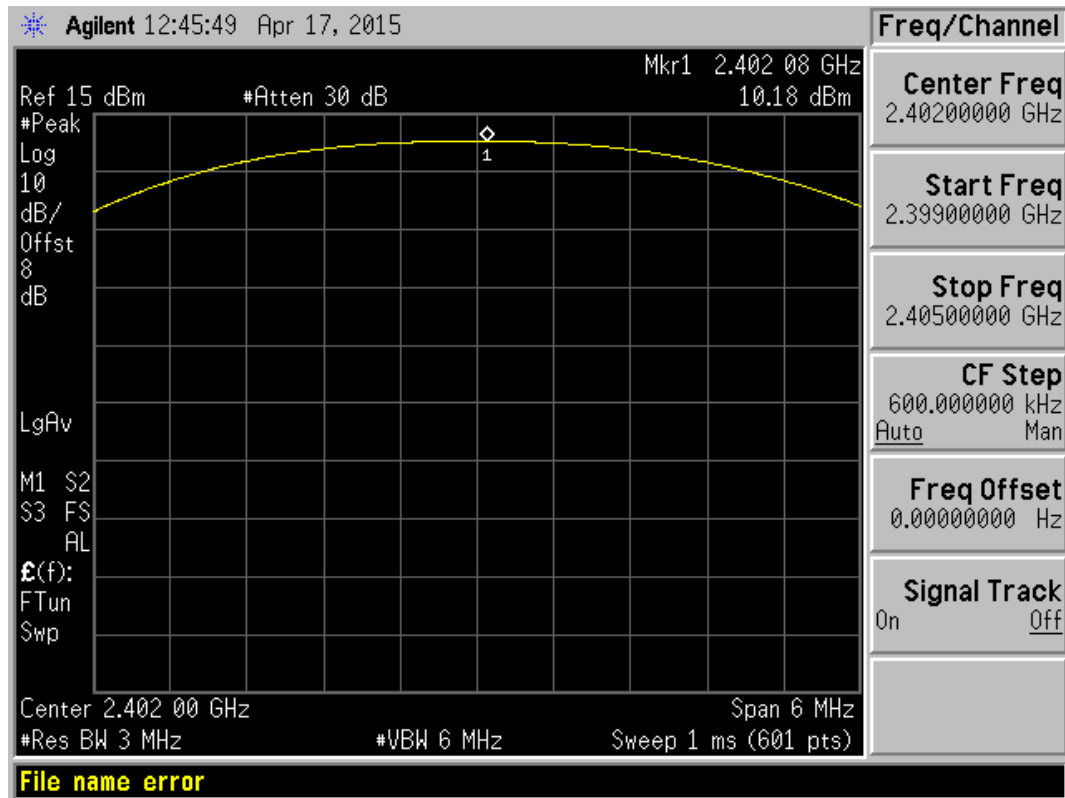
Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.34	10.81	30	1000	Pass
Middle	10.88	12.25			Pass
High	9.52	8.95			Pass

8-DPSK Mode:

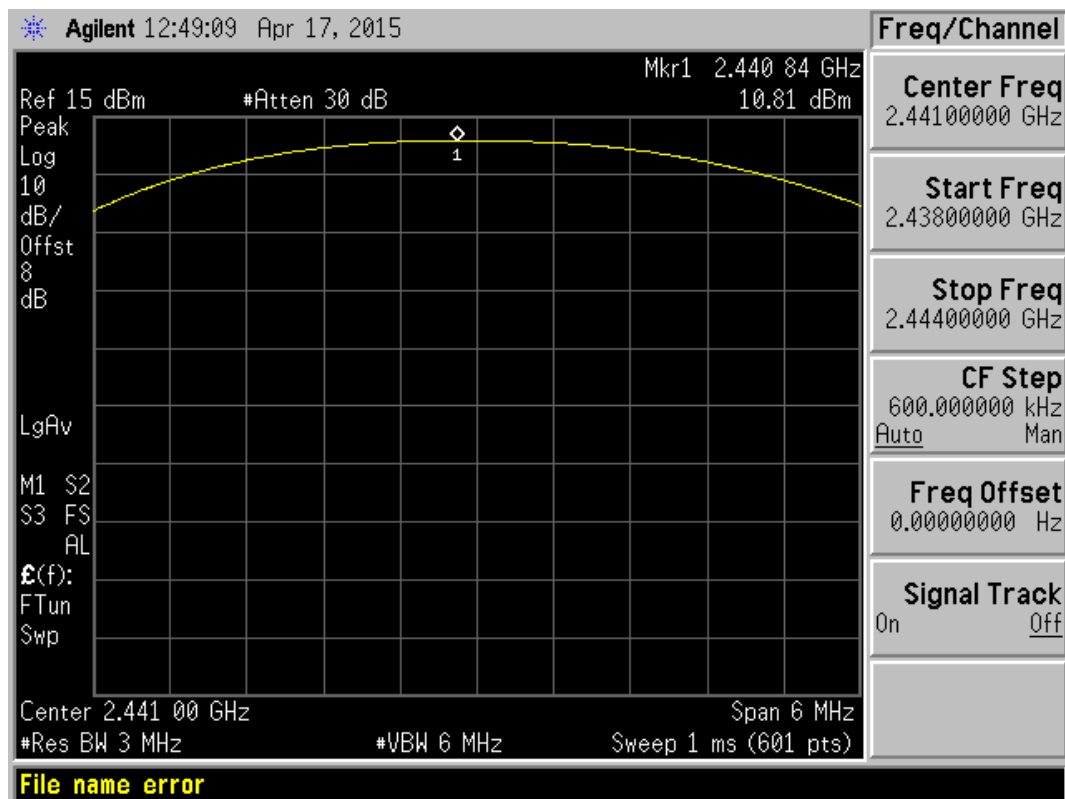
Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.54	11.32	30	1000	Pass
Middle	11.12	12.94			Pass
High	9.78	9.51			Pass

Test plots

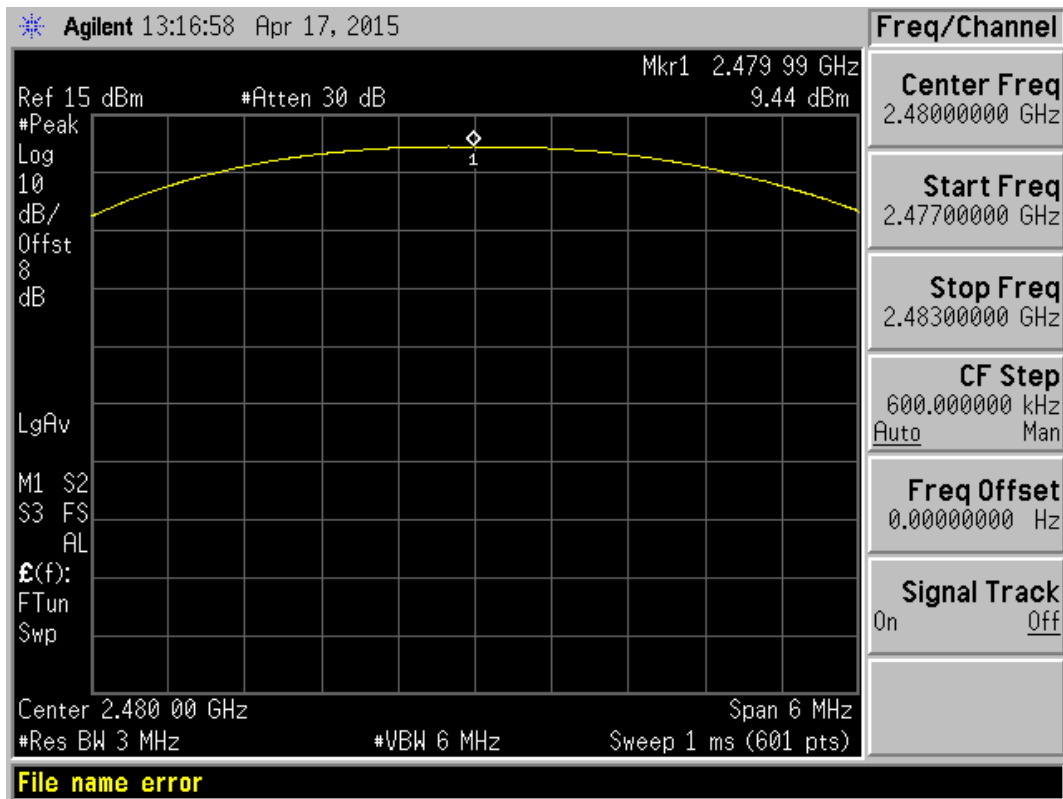
GFSK LOW CHANNEL



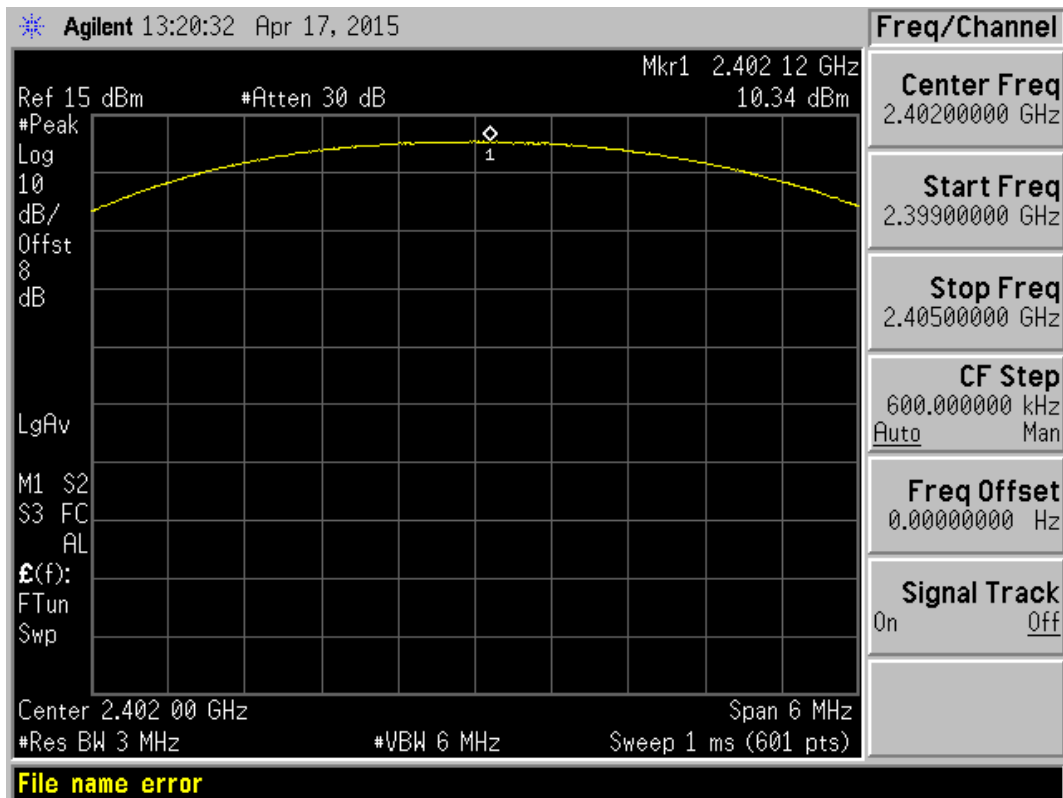
GFSK MID CHANAEL



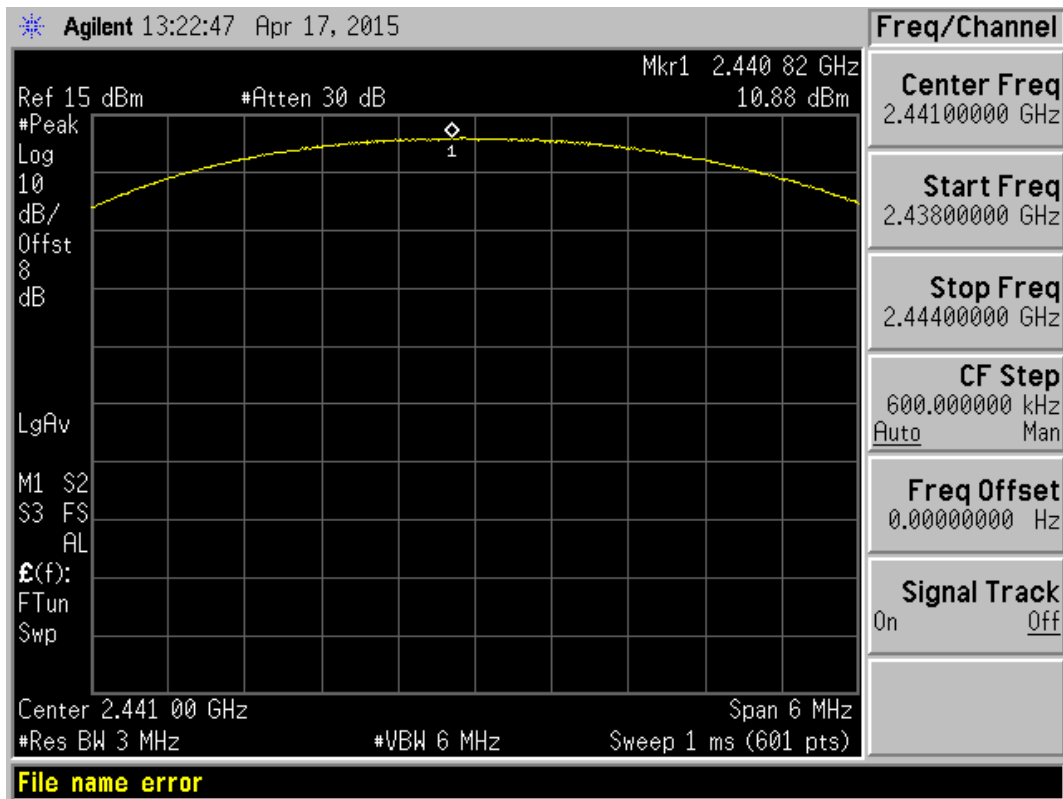
GFSK HIGH CHANNEL



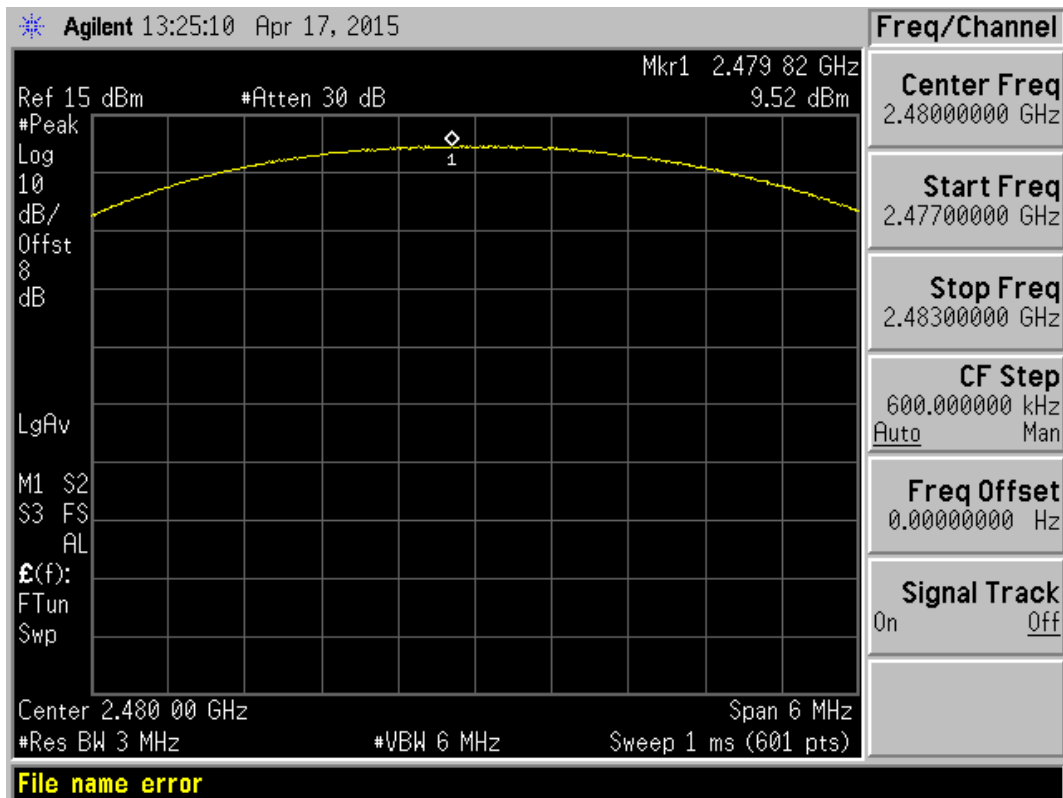
Q/4-DQPSK LOW CHANNEL



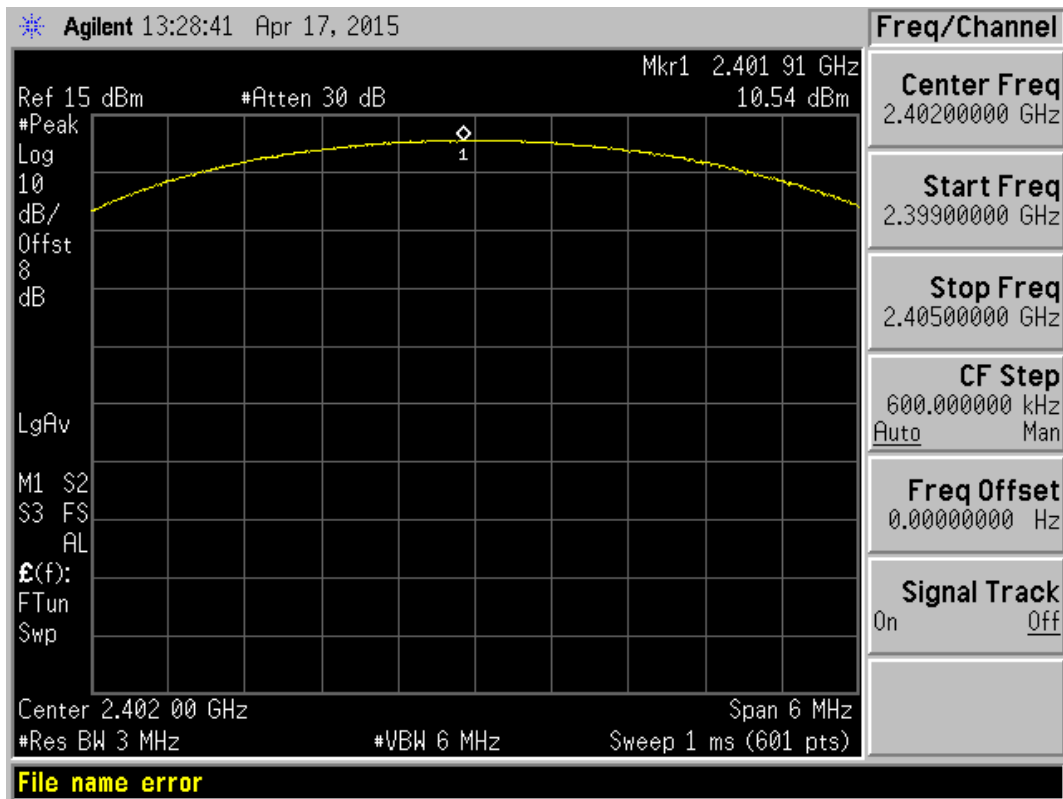
□/4-DQPSK MID CHANAEL



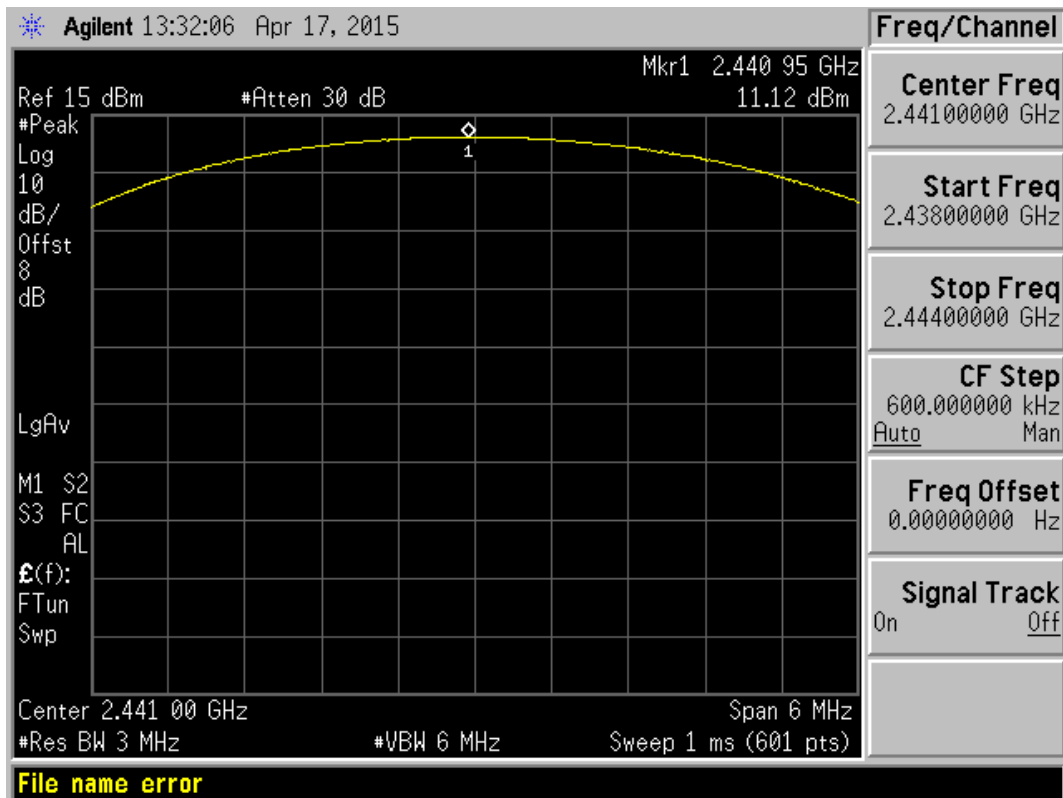
□/4-DQPSK HIGH CHANNEL



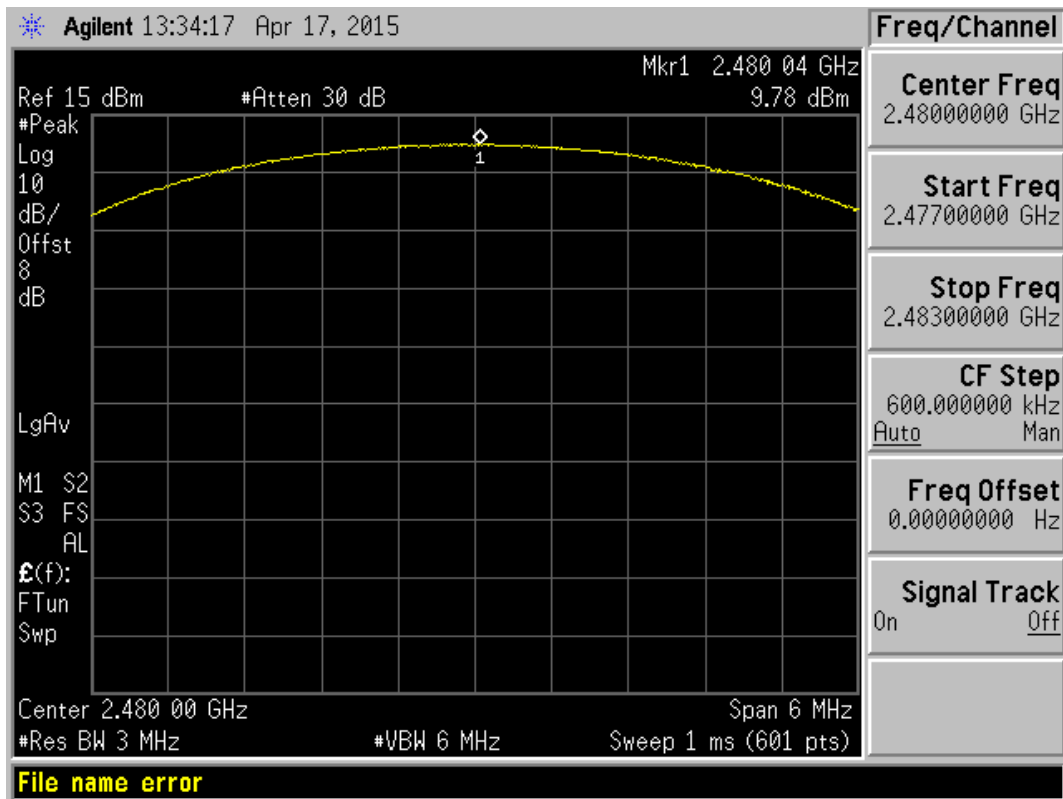
8-DPSK LOW CHANNEL



8-DPSK MID CHANAEL



8-DPSK HIGH CHANNEL



A.3 20dB and 99% bandwidth

Test Data

GFSK Mode:

Channel	20 dB Bandwidth (MHz)	99% Bandwidth (kHz)
Low	1.128	983.8099
Middle	1.124	983.3781
High	1.127	985.2573

π/4-DQPSK Mode:

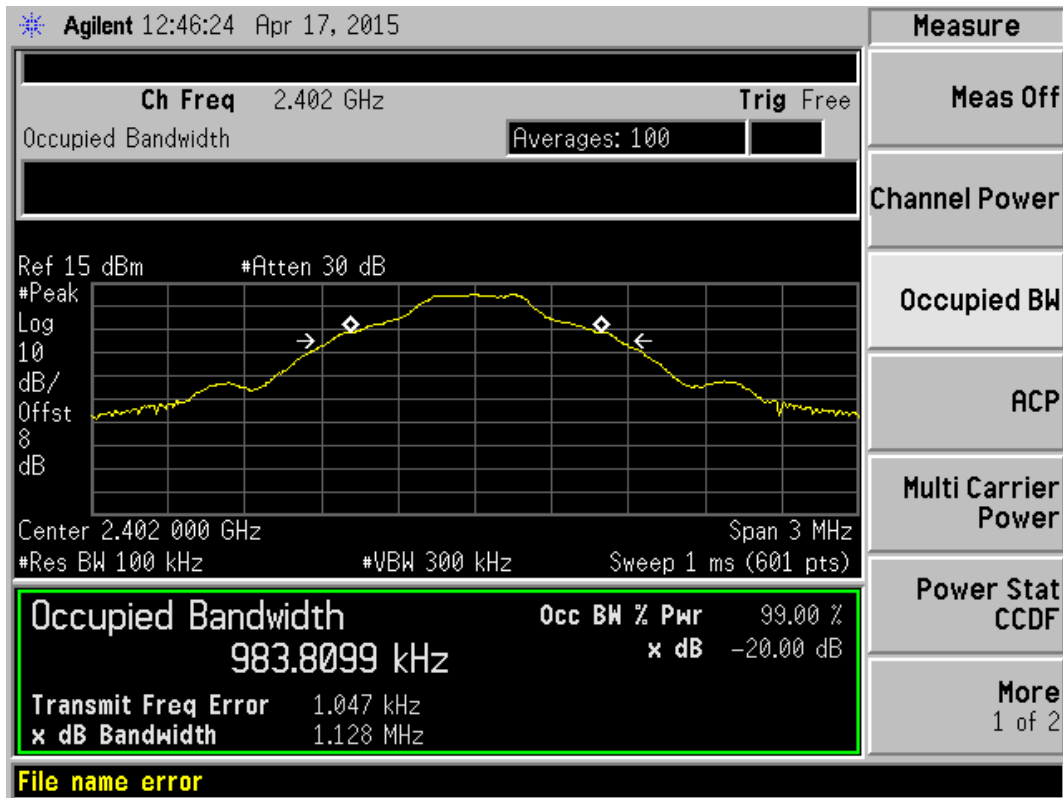
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.375	1.2045
Middle	1.377	1.2052
High	1.374	1.2074

8-DPSK Mode:

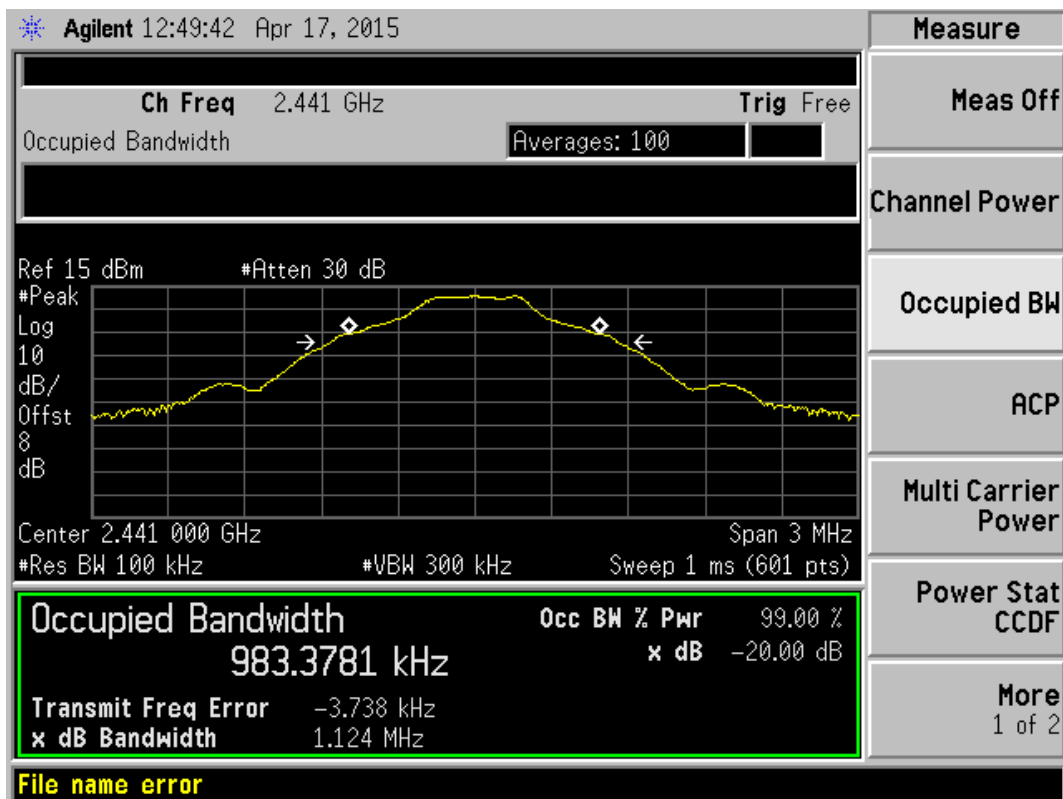
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.378	1.2161
Middle	1.376	1.2126
High	1.378	1.2119

Test plots

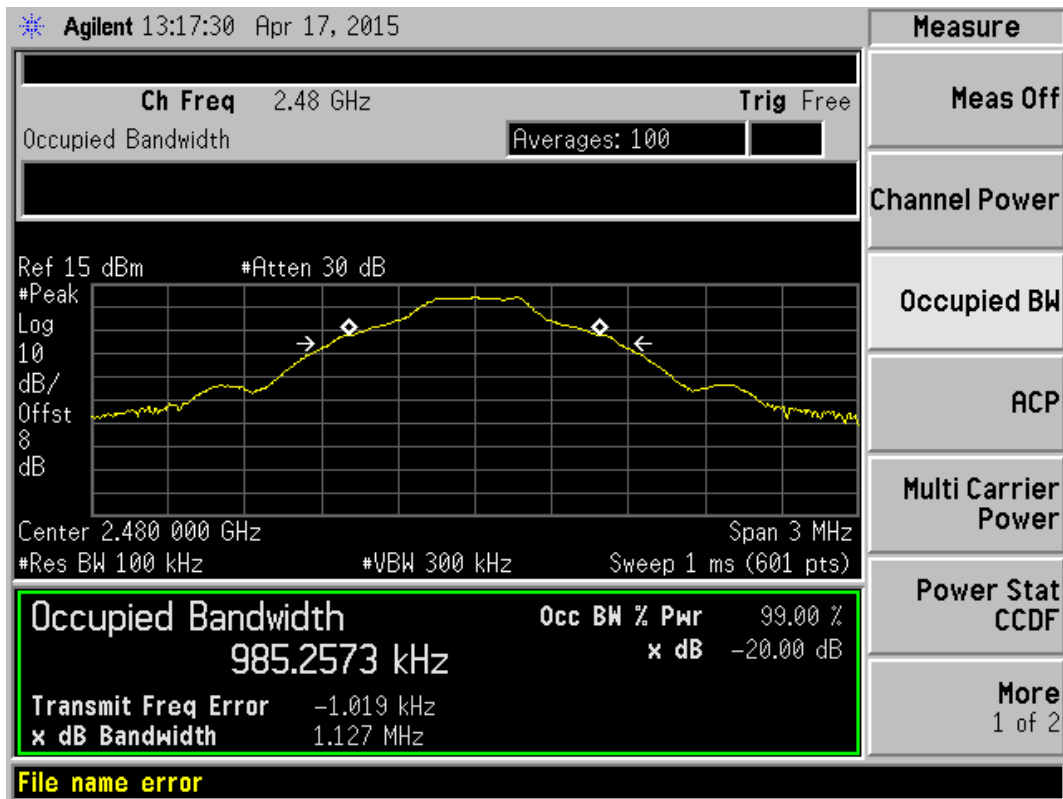
GFSK LOW CHANNEL



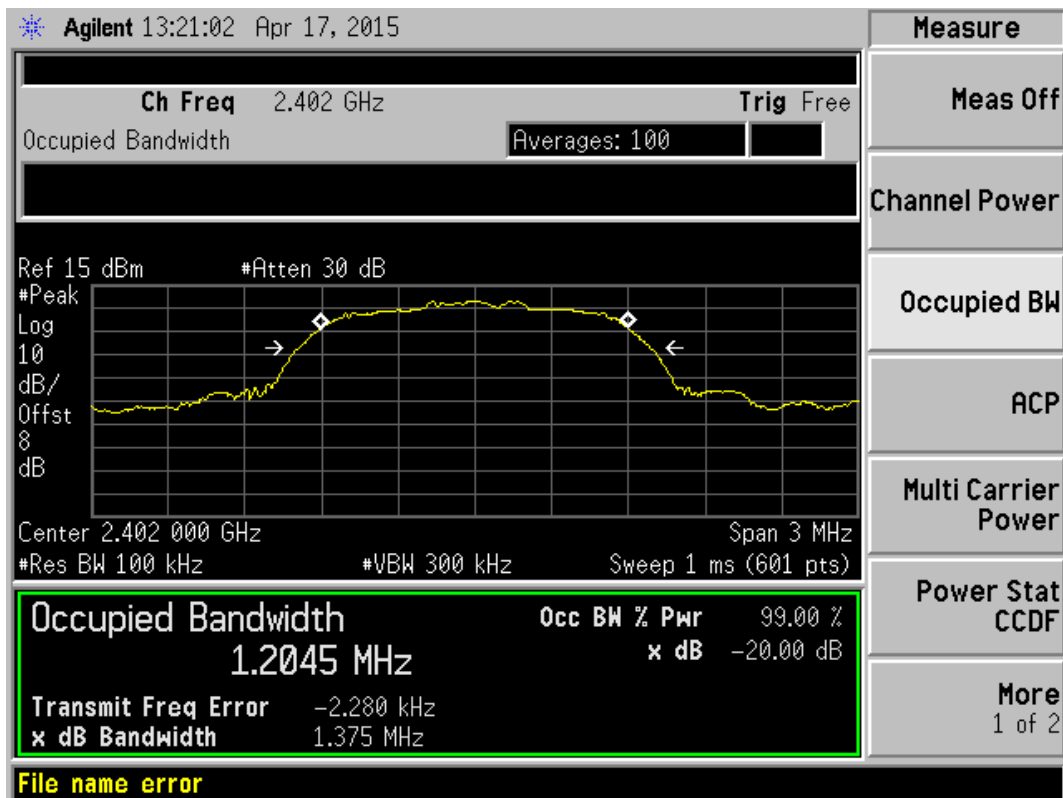
GFSK MID CHANAEL



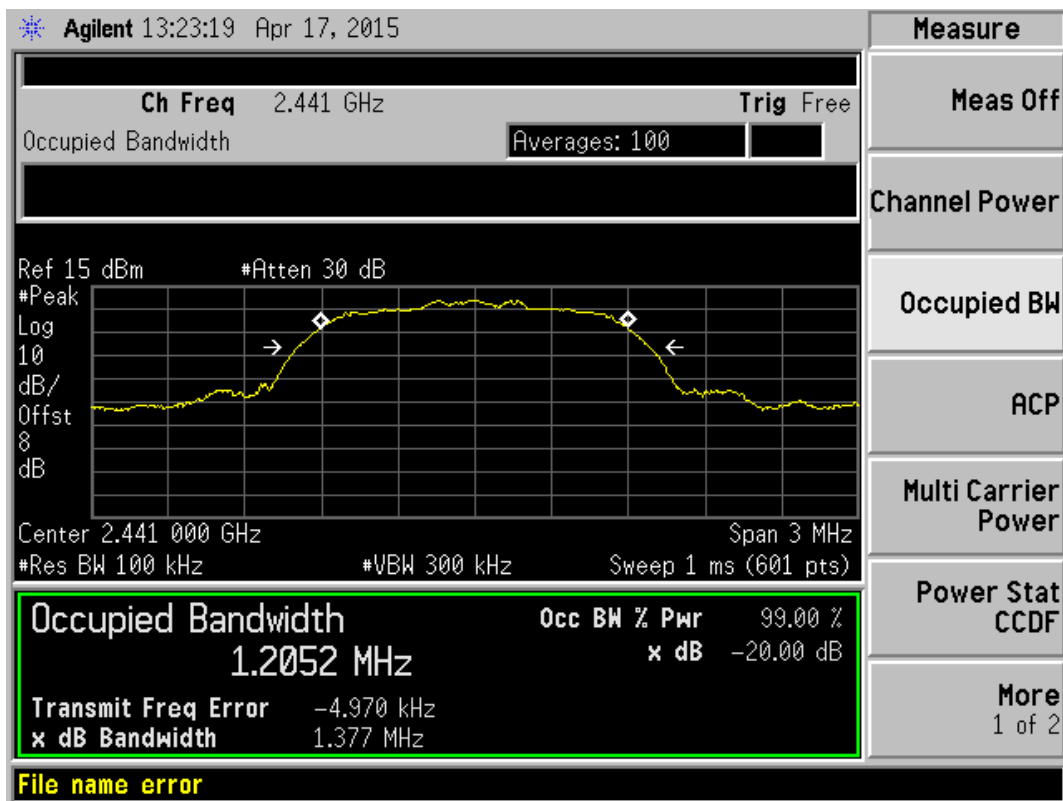
GFSK HIGH CHANNEL



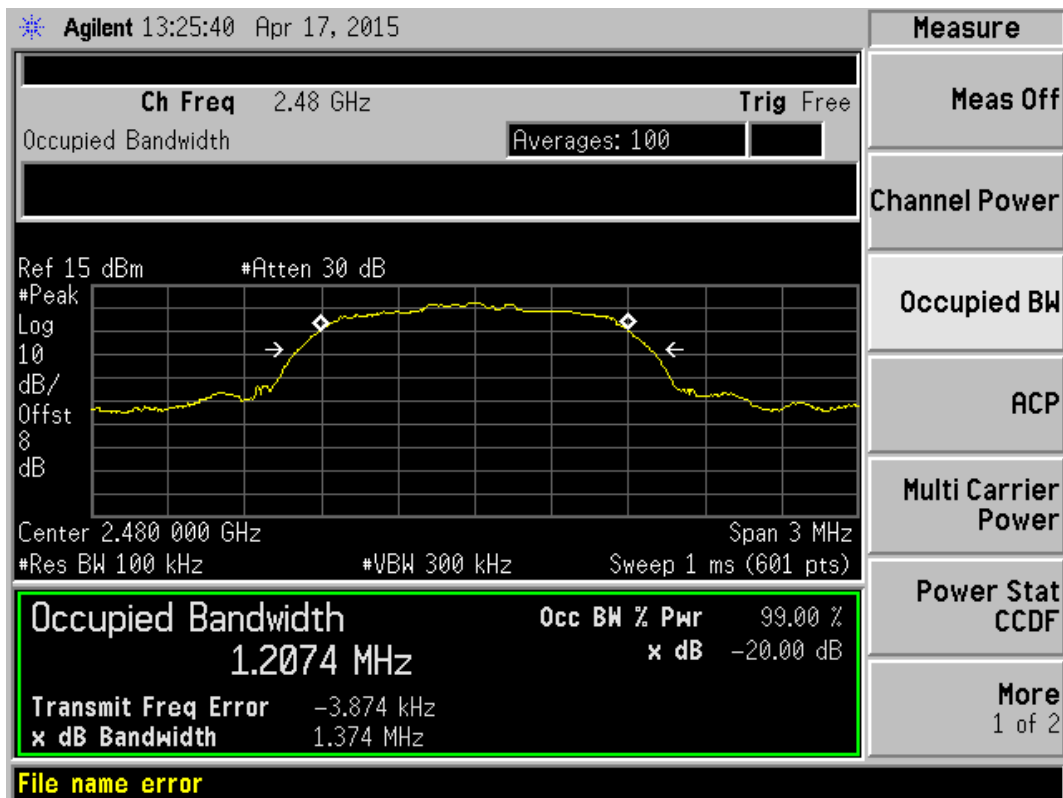
Q/4-DQPSK LOW CHANNEL



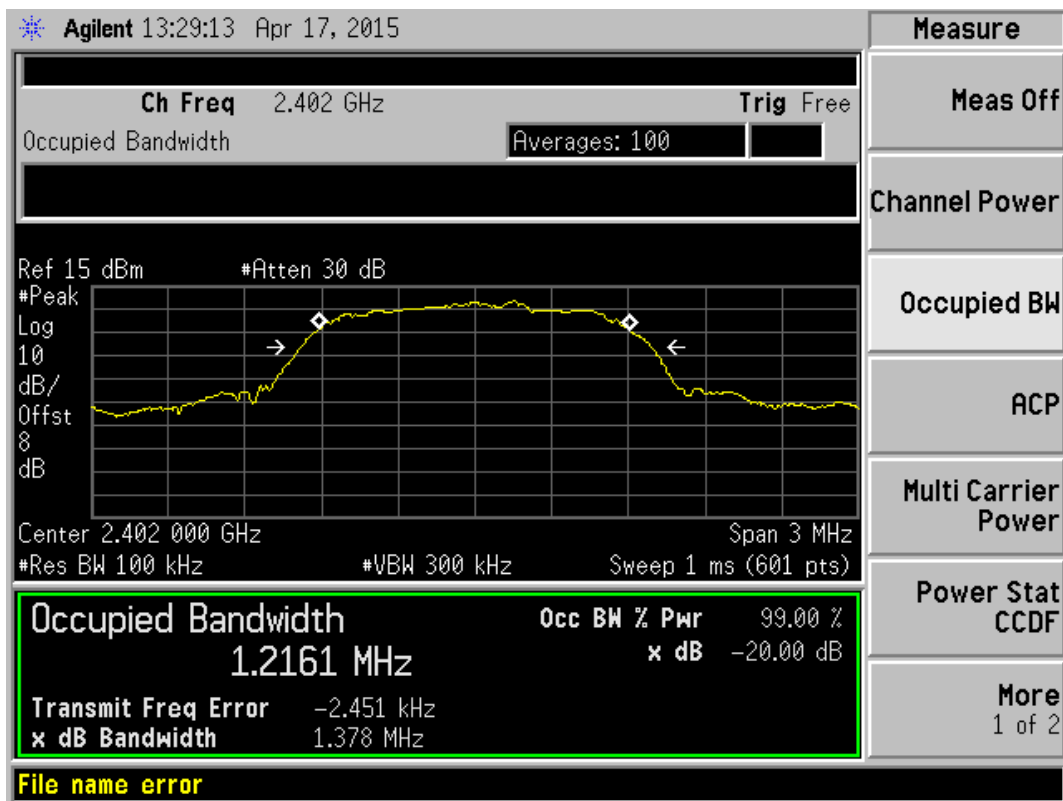
□/4-DQPSK MID CHANAEL



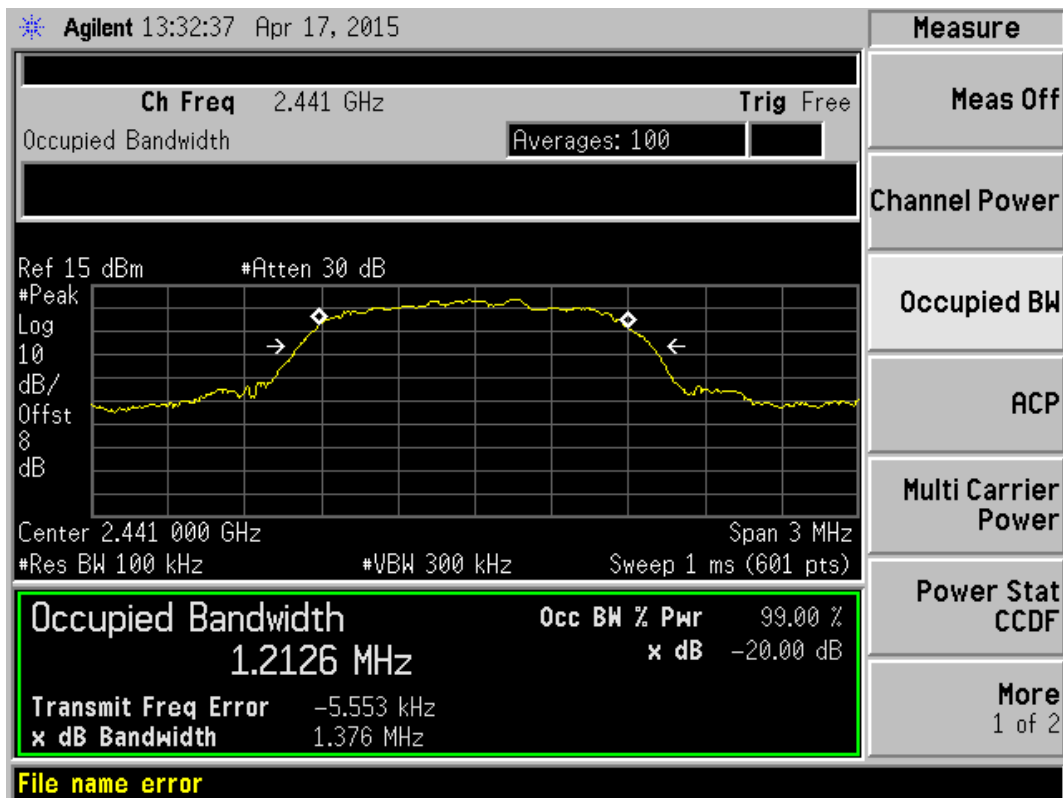
□/4-DQPSK HIGH CHANNEL



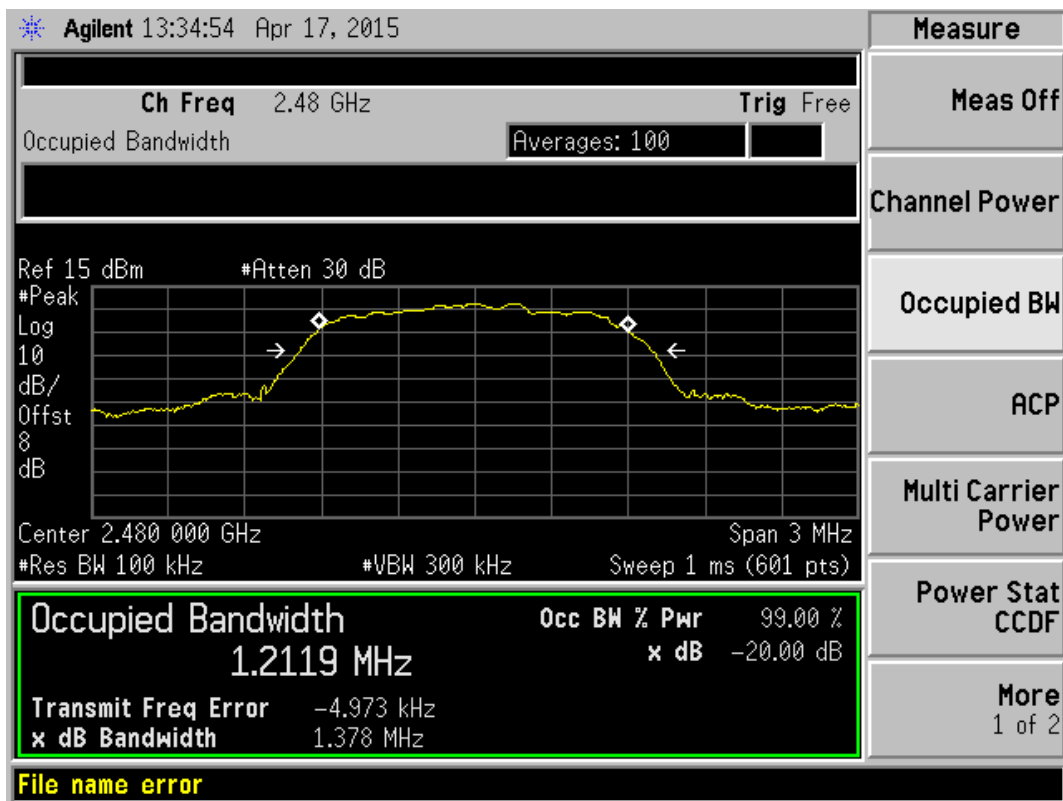
8-DPSK LOW CHANNEL



8-DPSK MID CHANAEL



8-DPSK HIGH CHANNEL



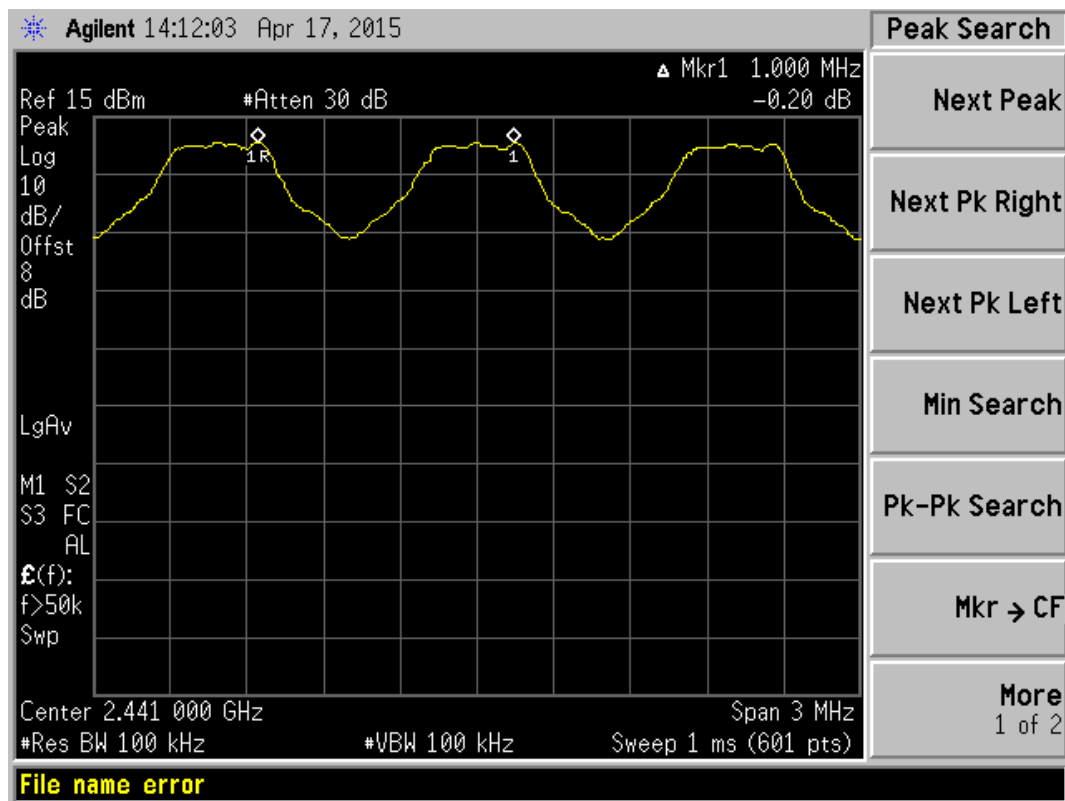
A.4 Hopping Frequency Separation

Test Data

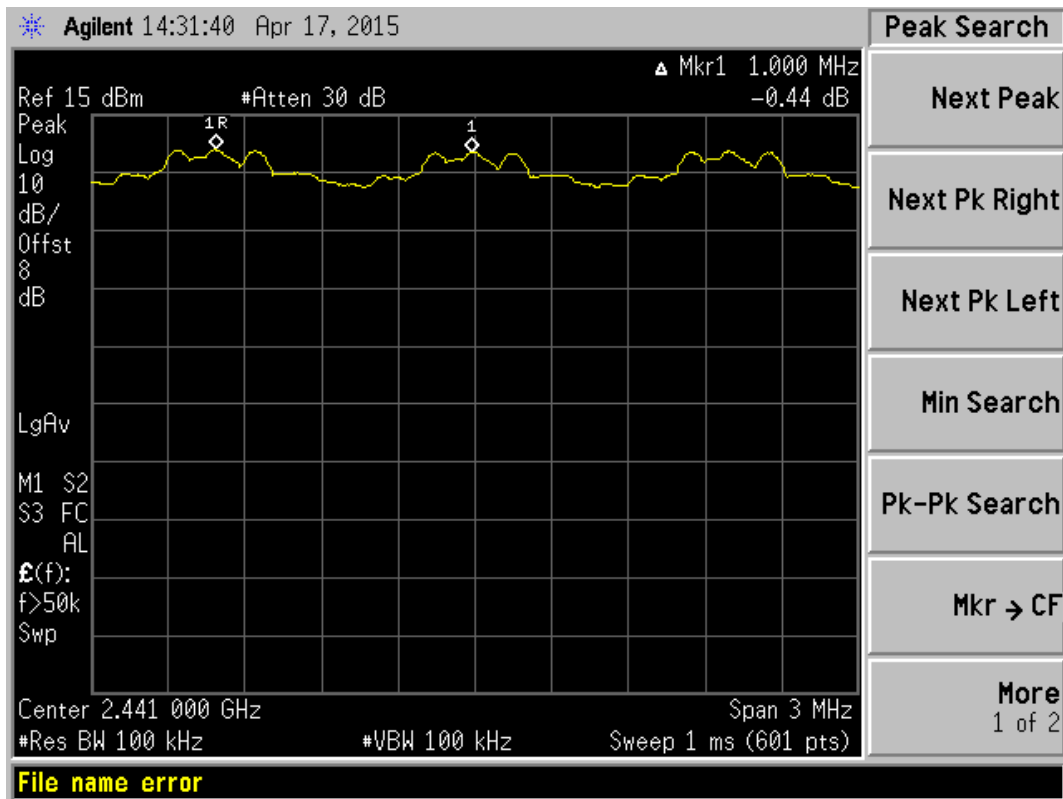
Mode	Frequency separation (MHz)	Max 20 dB Bandwidth (MHz)	Two-thirds of the 20 dB bandwidth (MHz)	Verdict
GFSK	1.000	1.128	0.752	Pass
π/4-DQPSK	1.000	1.377	0.918	Pass
8-DPSK	1.000	1.378	0.919	Pass

Test plots

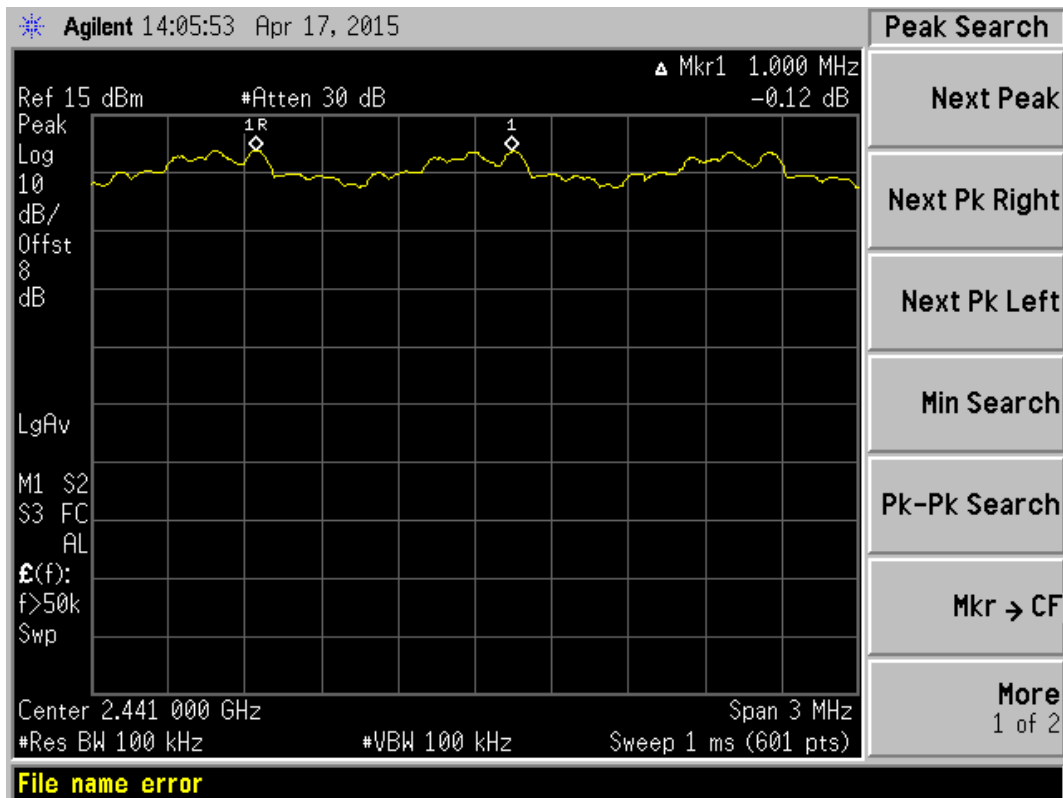
GFSK



1/4-DQPSK



8-DPSK



A.5 Average Time of Occupancy

Test Data

GFSK Mode:

DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.377	120.544	0.4	Pass
DH 3	1.633	261.280	0.4	Pass
DH 5	2.873	306.453	0.4	Pass

□/4-DQPSK Mode:

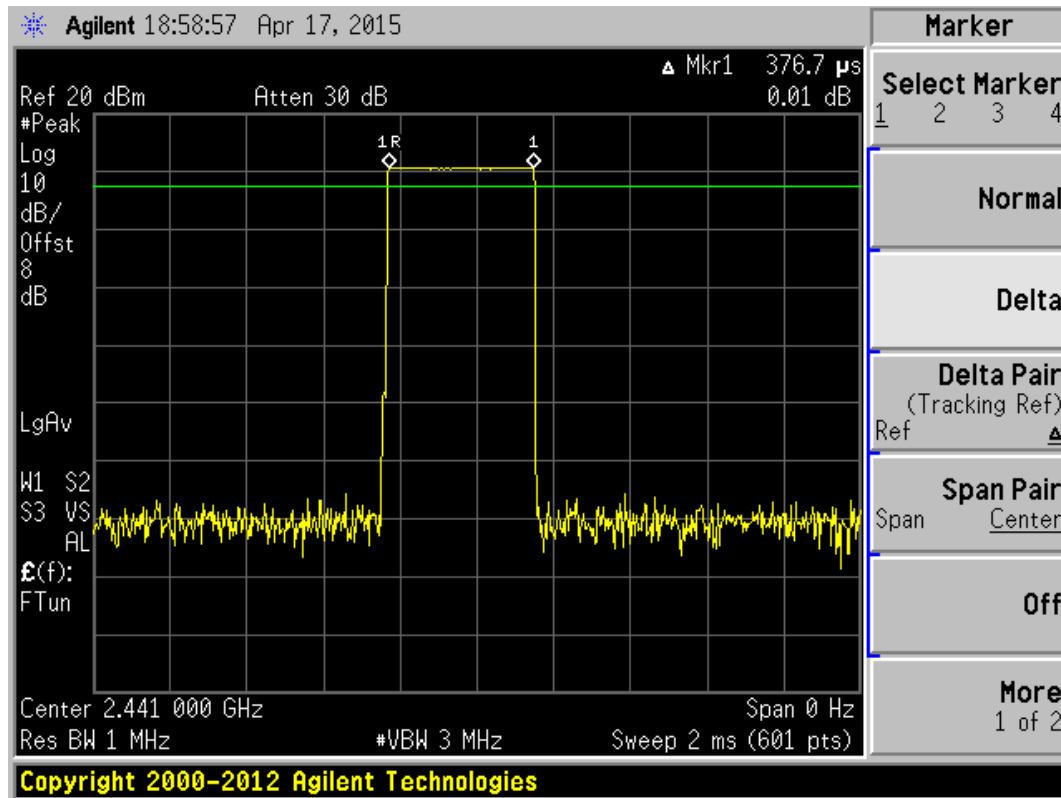
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.387	123.744	0.4	Pass
DH 3	1.640	262.408	0.4	Pass
DH 5	2.880	307.200	0.4	Pass

8-DPSK Mode:

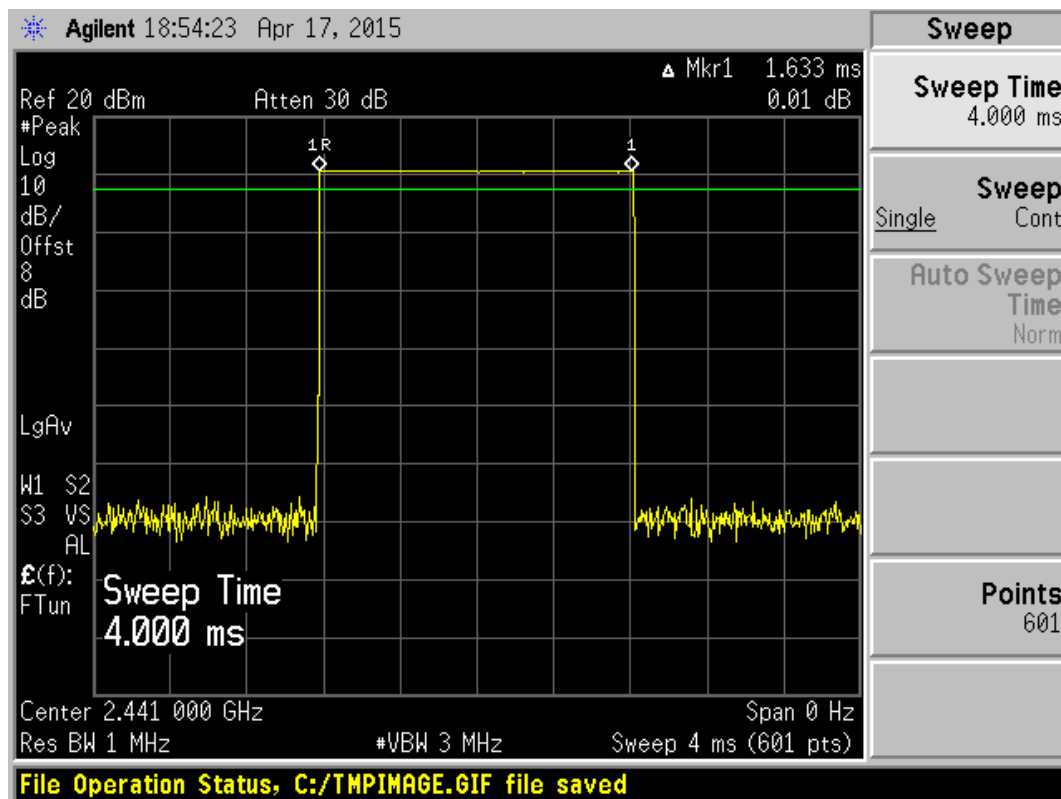
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.387	123.744	0.4	Pass
DH 3	1.633	261.280	0.4	Pass
DH 5	2.887	307.947	0.4	Pass

Test Plots

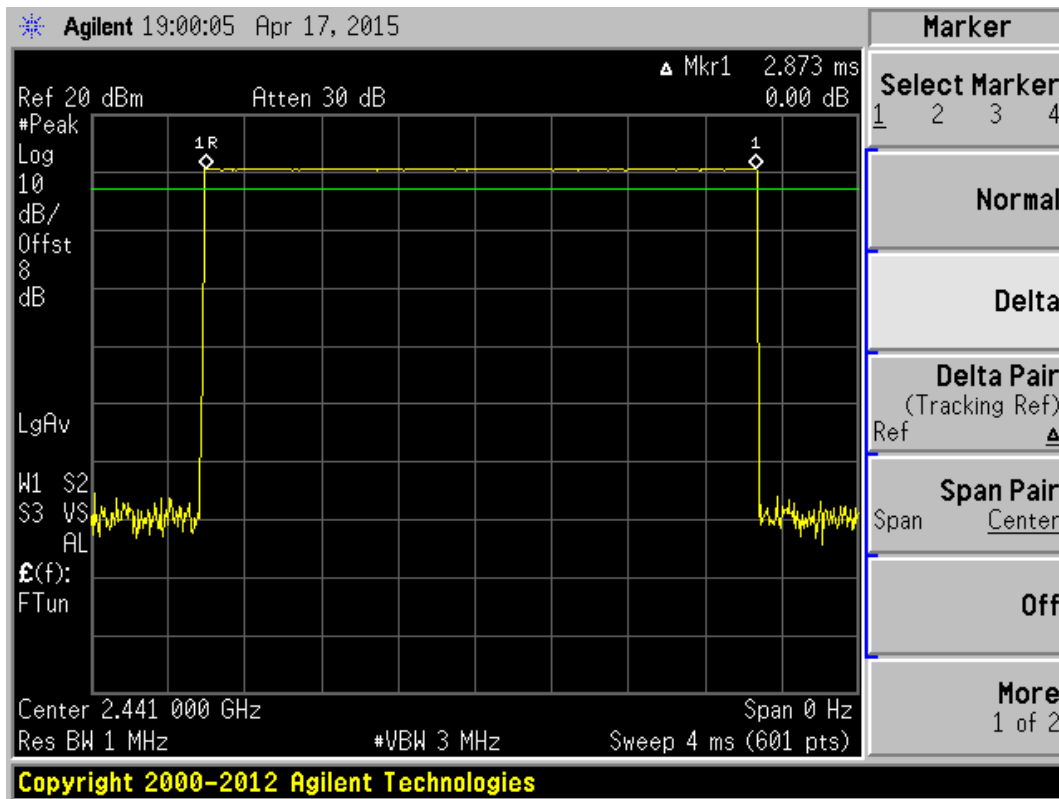
GFSK DH1



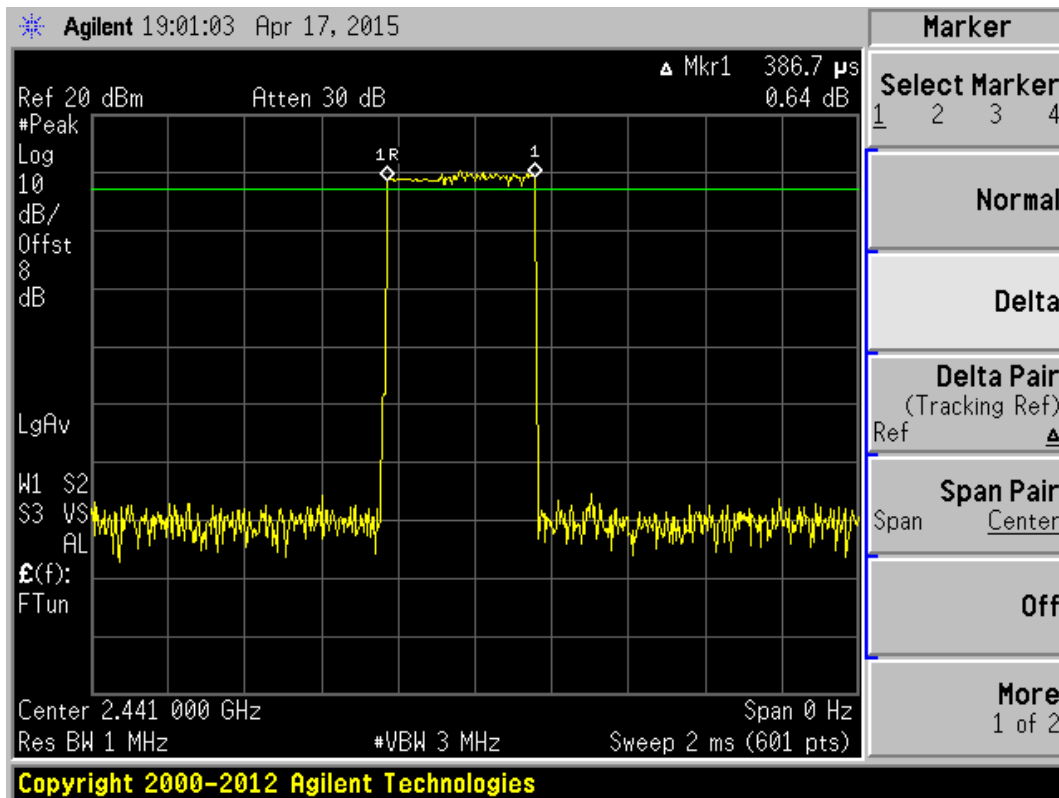
GFSK DH3



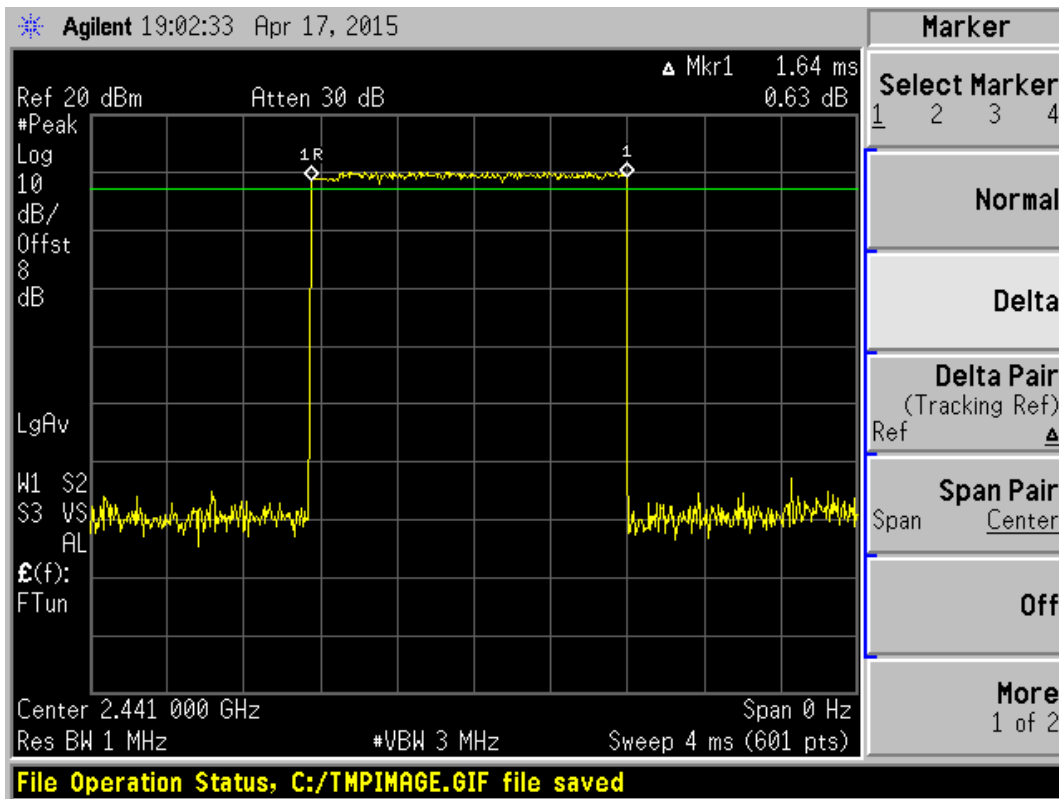
GFSK DH5



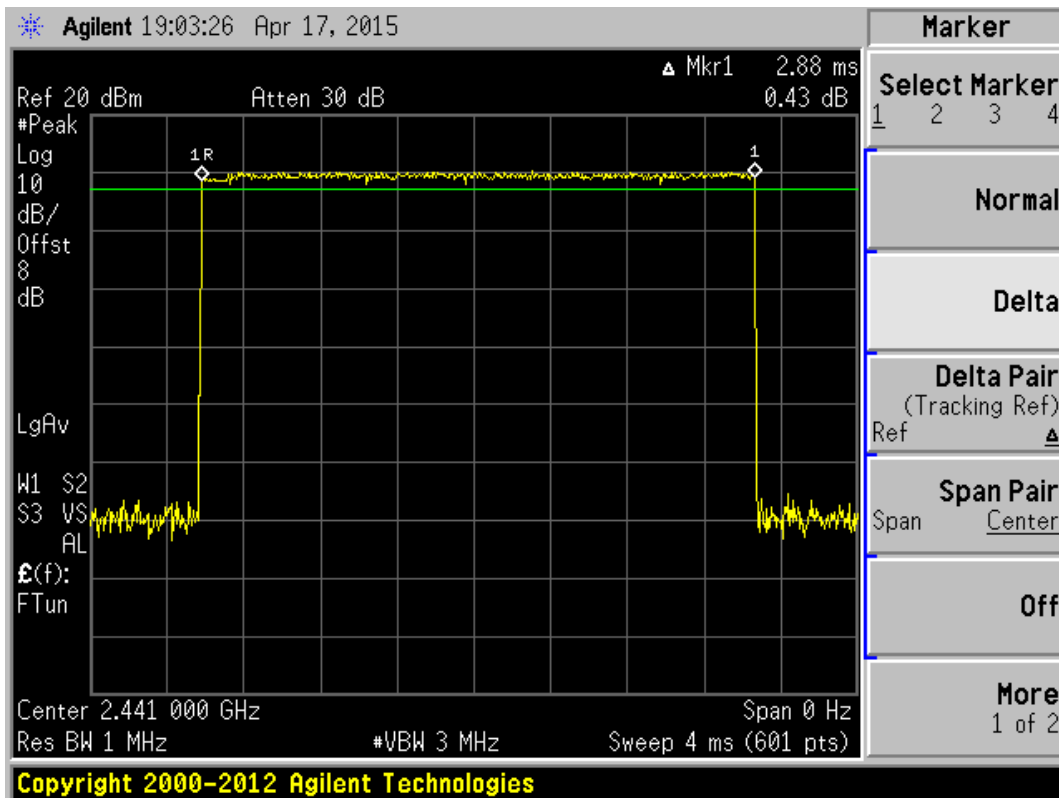
1/4-DQPSK DH1



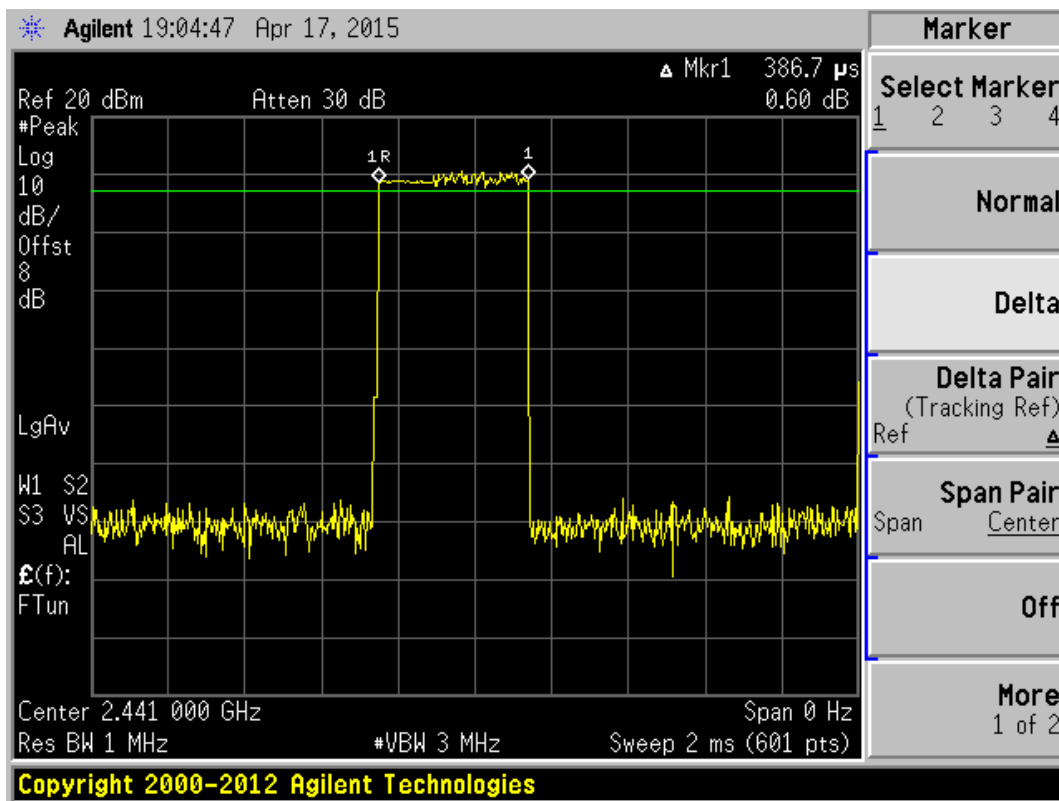
□/4-DQPSK DH3



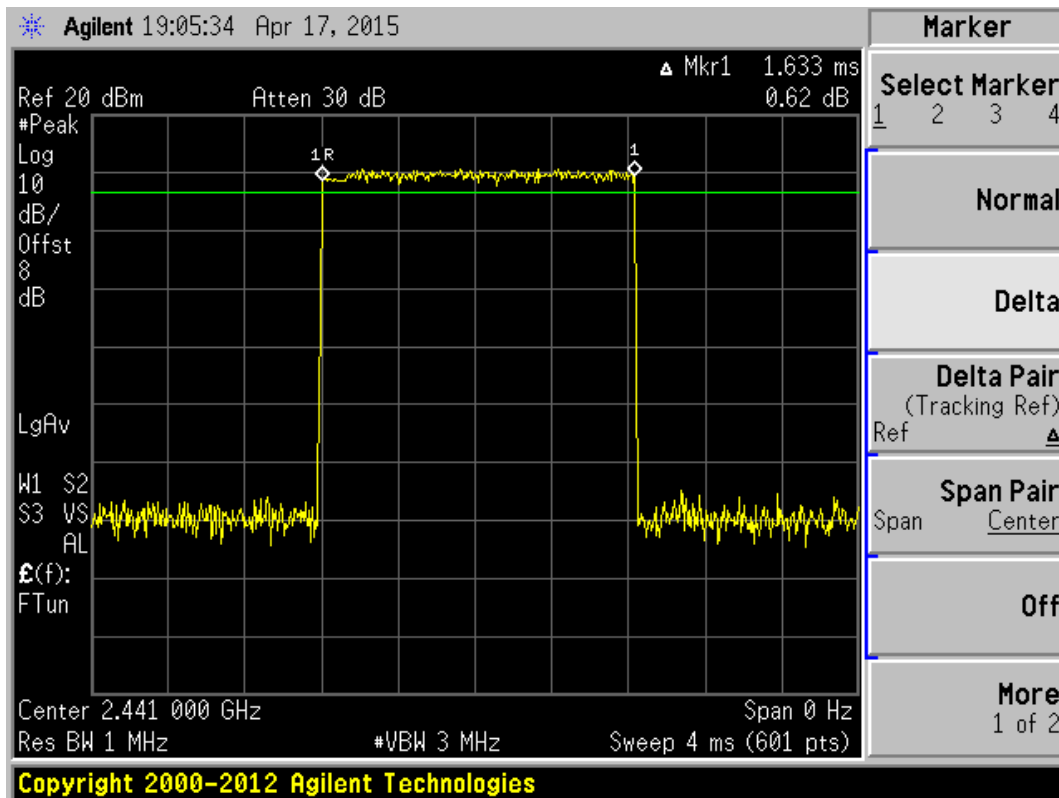
□/4-DQPSK DH5



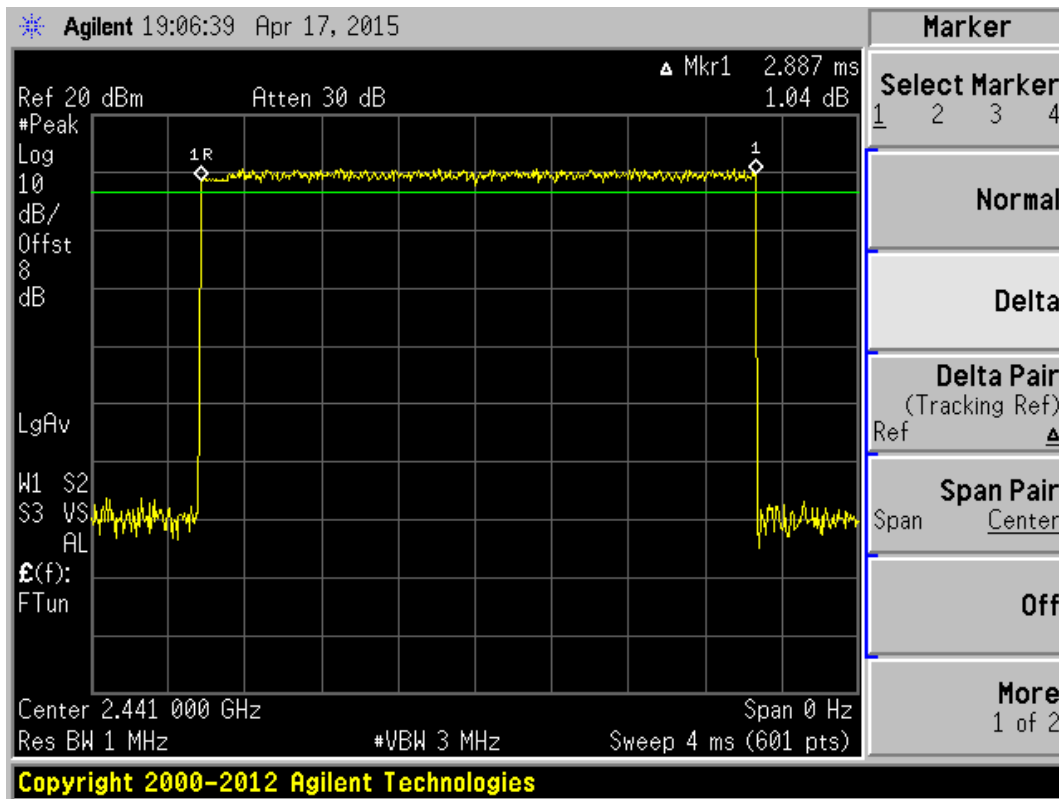
8-DPSK DH1



8-DPSK DH3



8-DPSK DH5



A.6 Conducted Spurious Emissions

Test Data

GFSK Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-46.55	9.51	-10.49	Pass
Middle	-47.74	10.02	-9.98	Pass
High	-47.38	9.03	-10.97	Pass

π/4-DQPSK Mode:

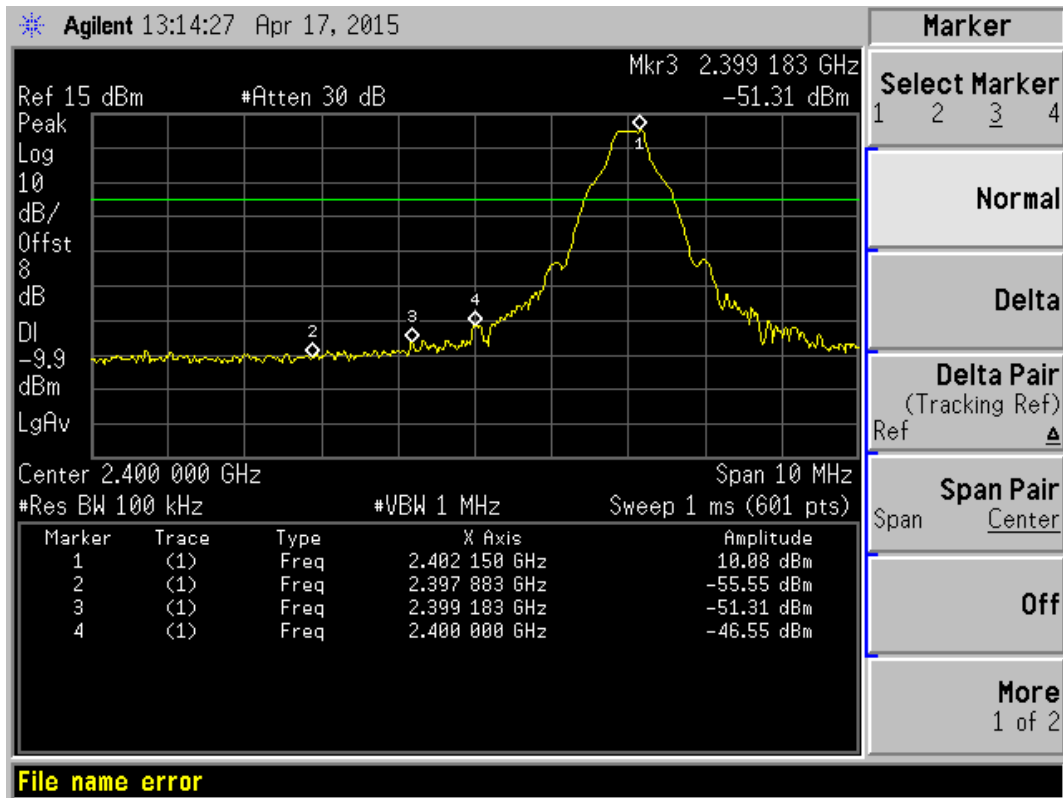
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-47.45	5.61	-14.39	Pass
Middle	-47.19	6.30	-13.70	Pass
High	-46.47	7.21	-12.79	Pass

8-DPSK Mode:

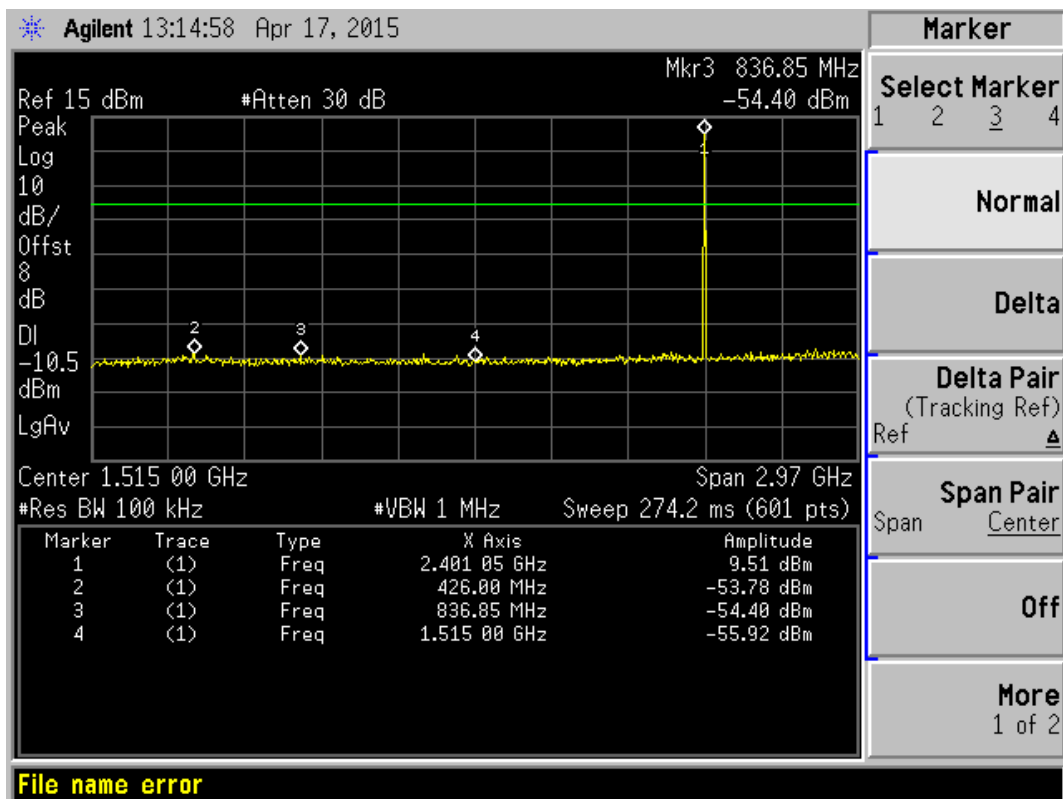
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-47.14	7.32	-12.68	Pass
Middle	-47.50	8.64	-11.36	Pass
High	-46.40	4.85	-15.15	Pass

Test Plots

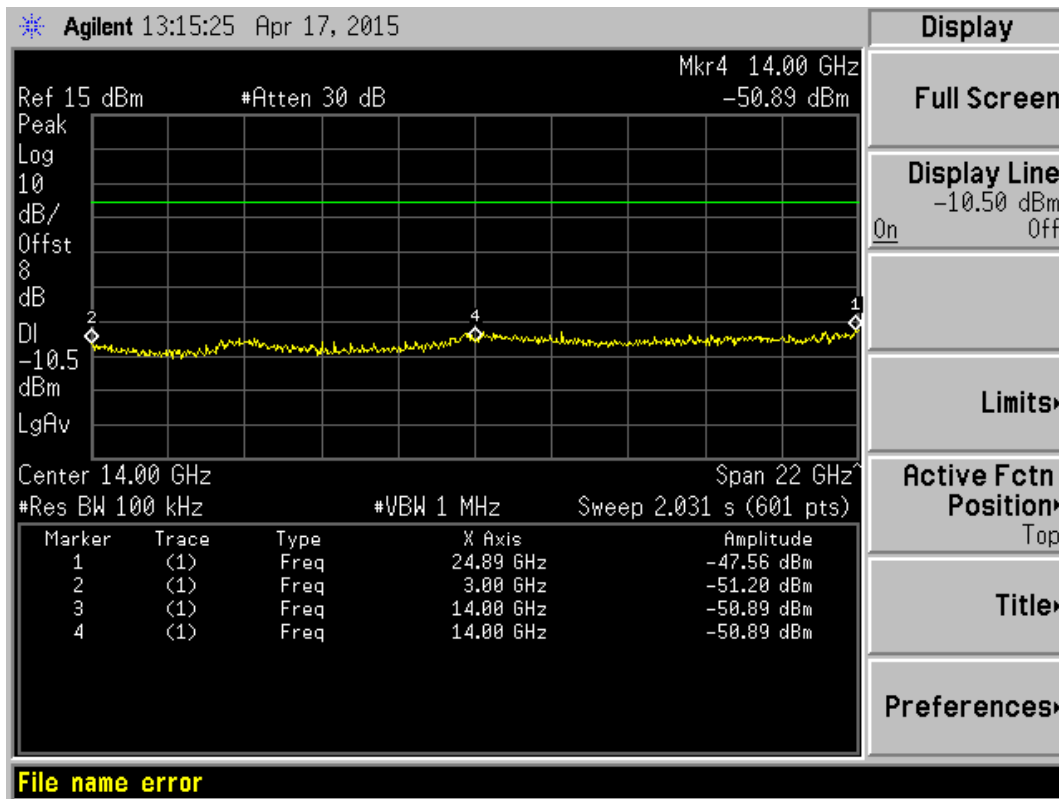
GFSK LOW CHANNEL , BAND EDGE



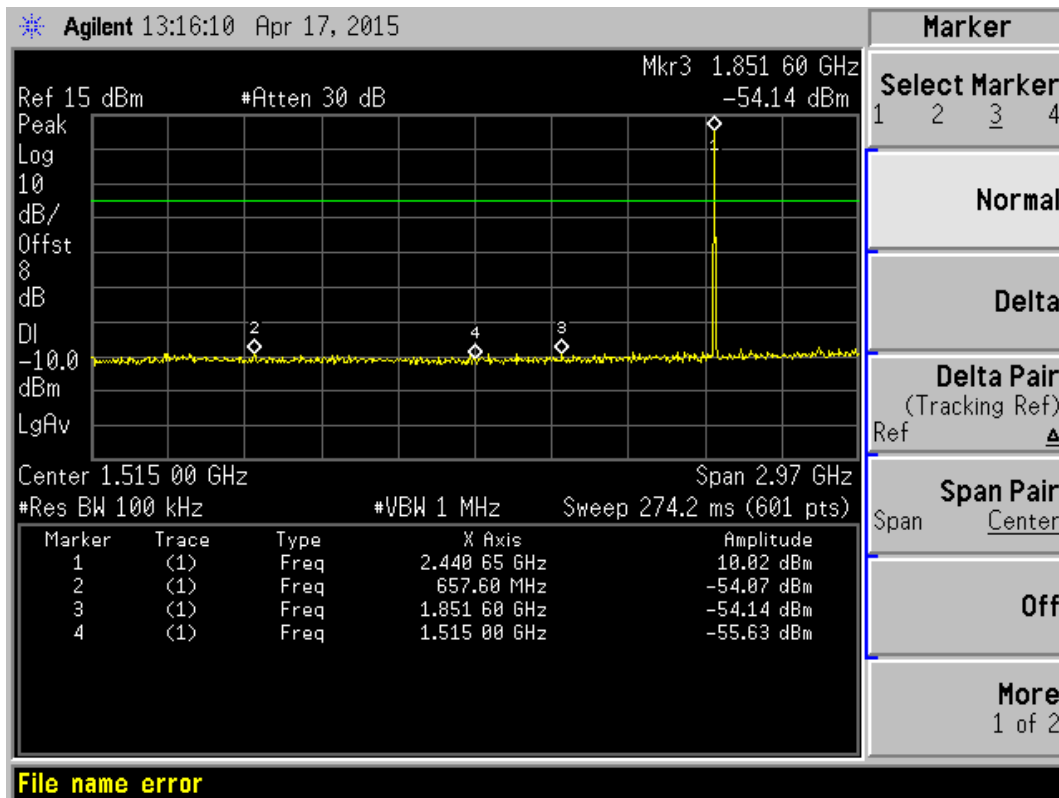
GFSK LOW CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



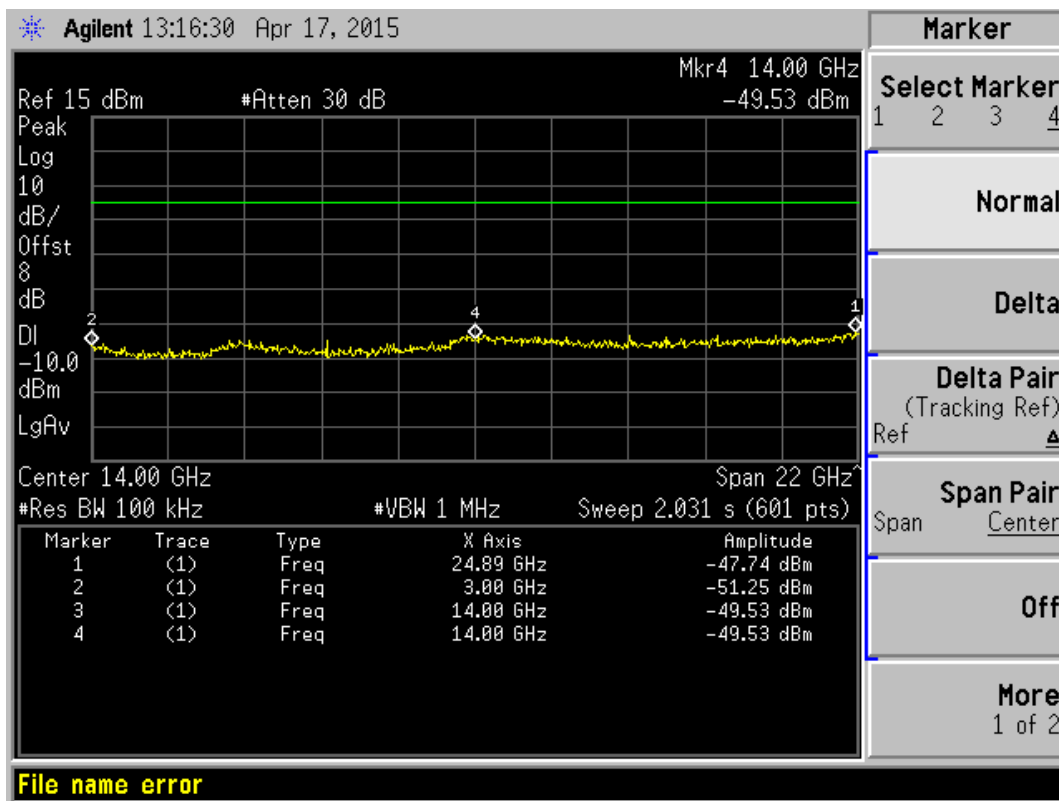
GFSK LOW CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



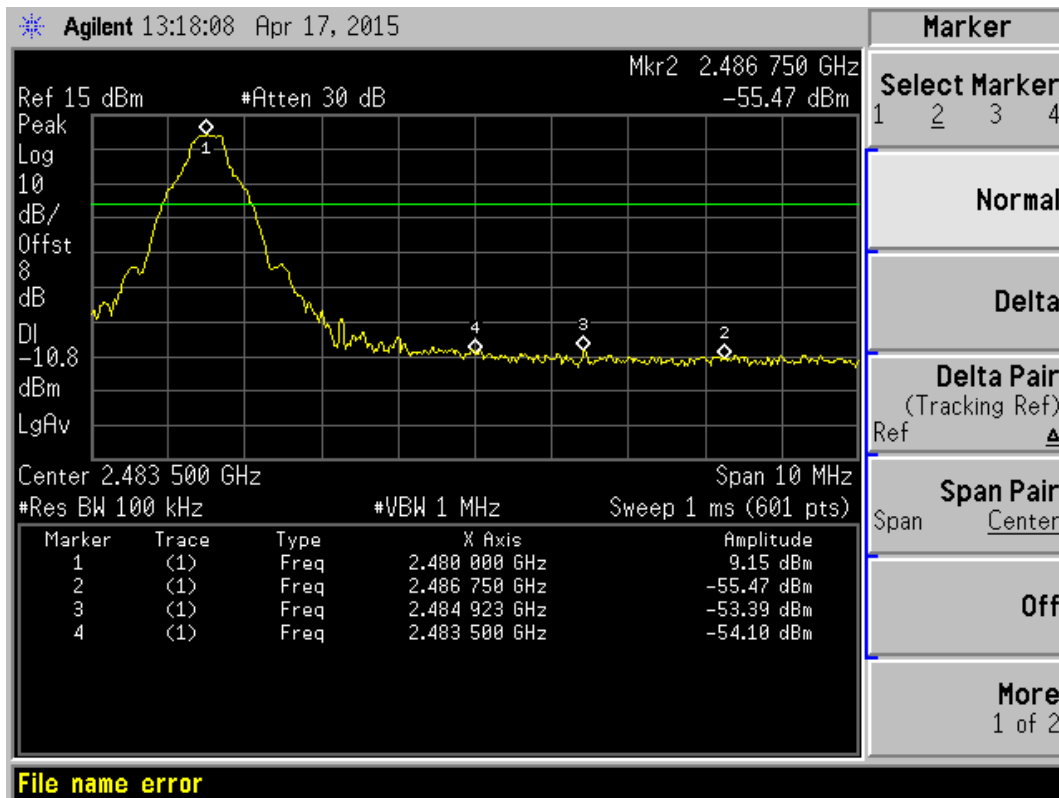
GFSK MID CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



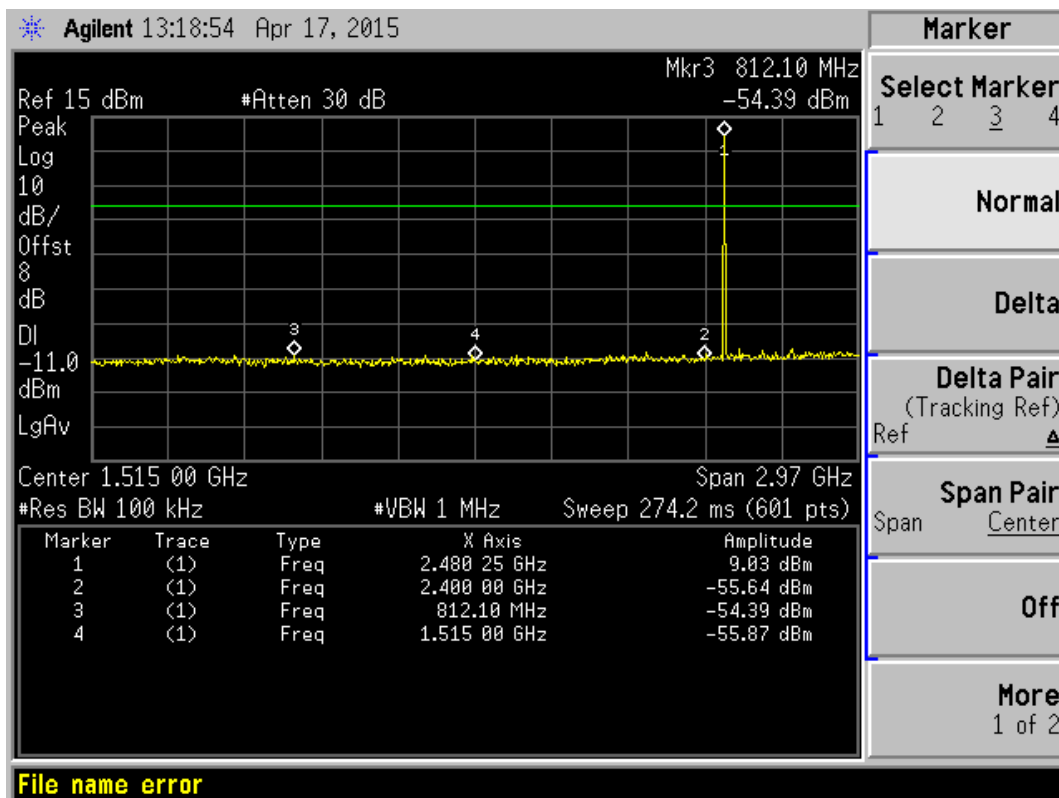
GFSK MID CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



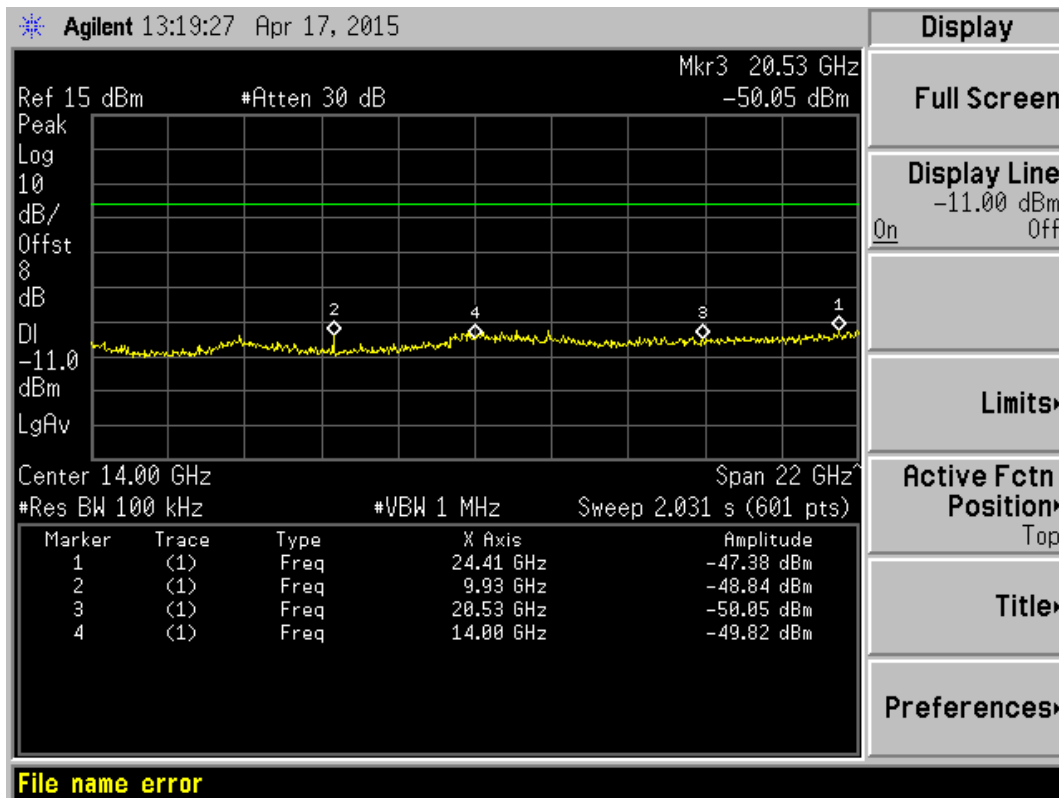
GFSK HIGH CHANNEL , BAND EDGE



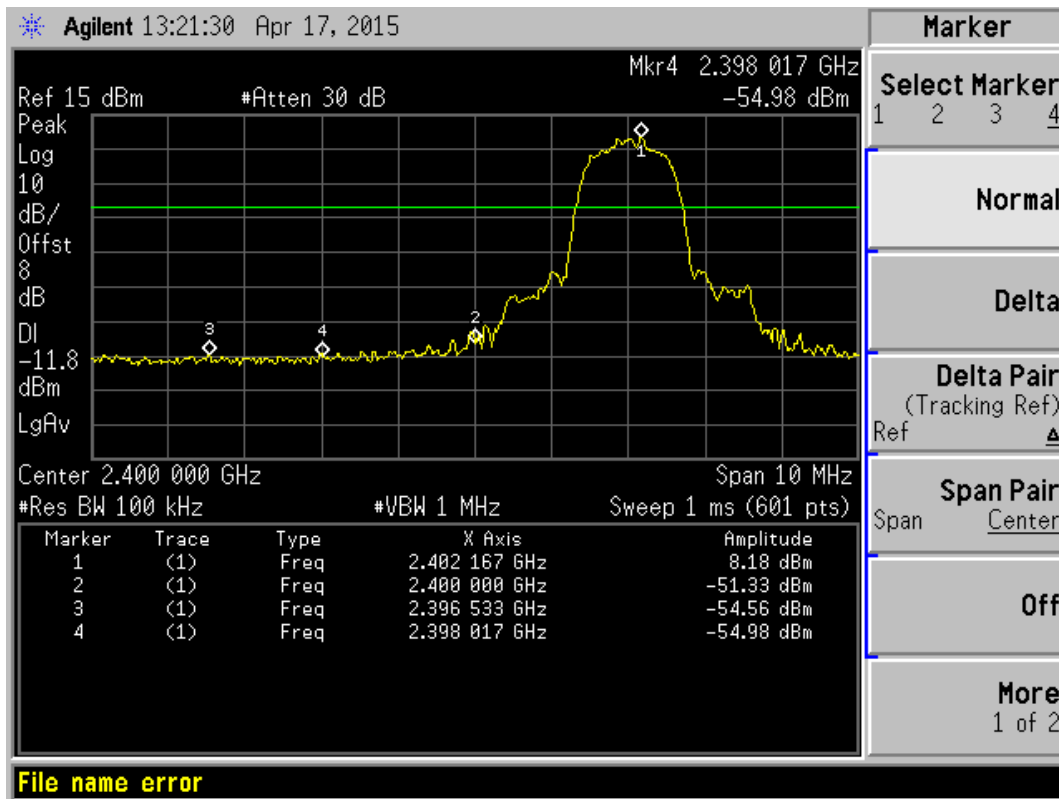
GFSK HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



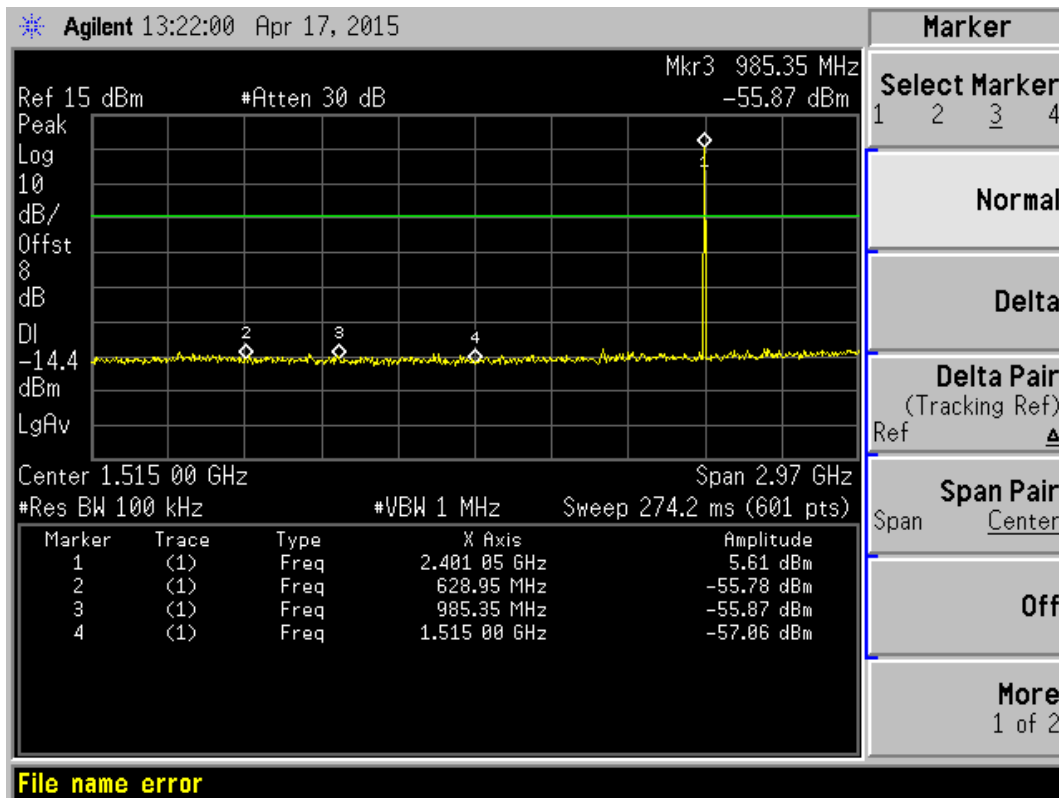
GFSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



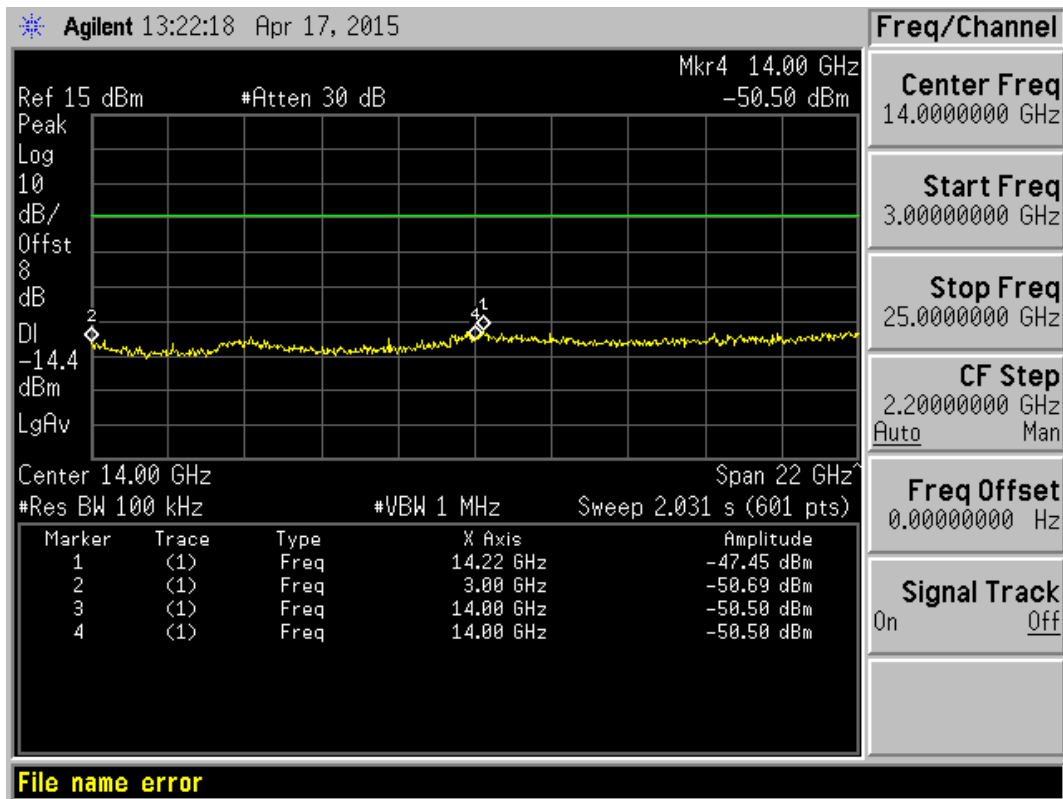
□/4-DQPSK LOW CHANNEL , BAND EDGE



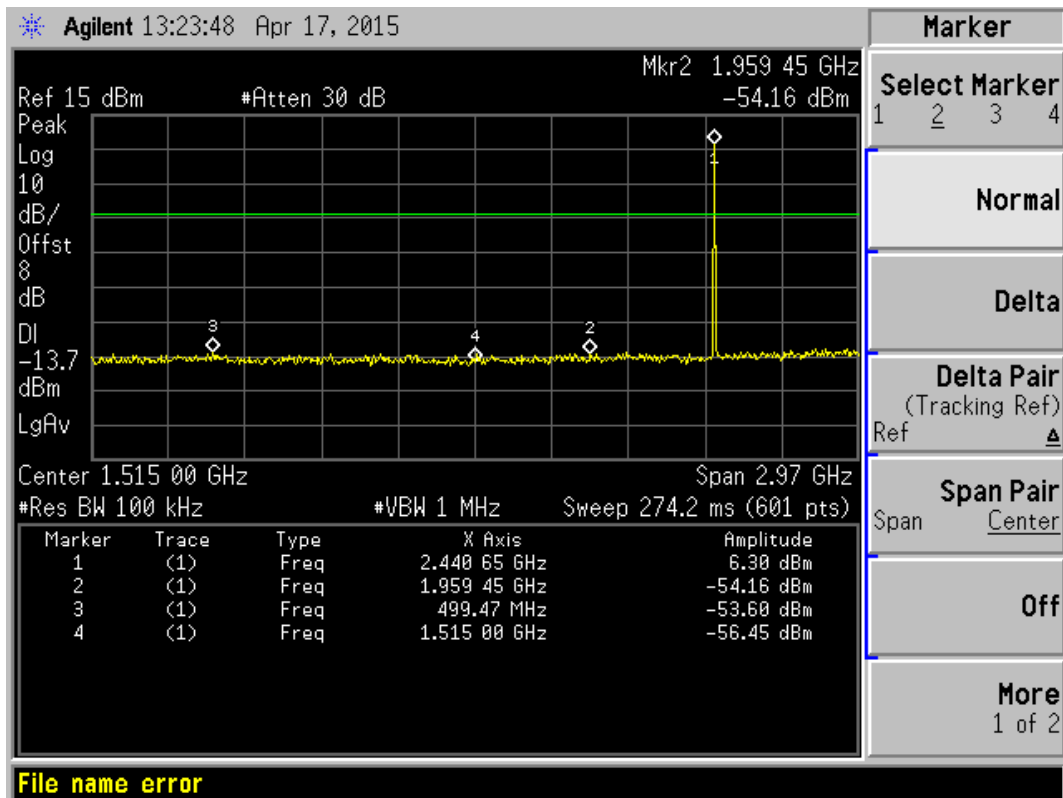
□/4-DQPSK LOW CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



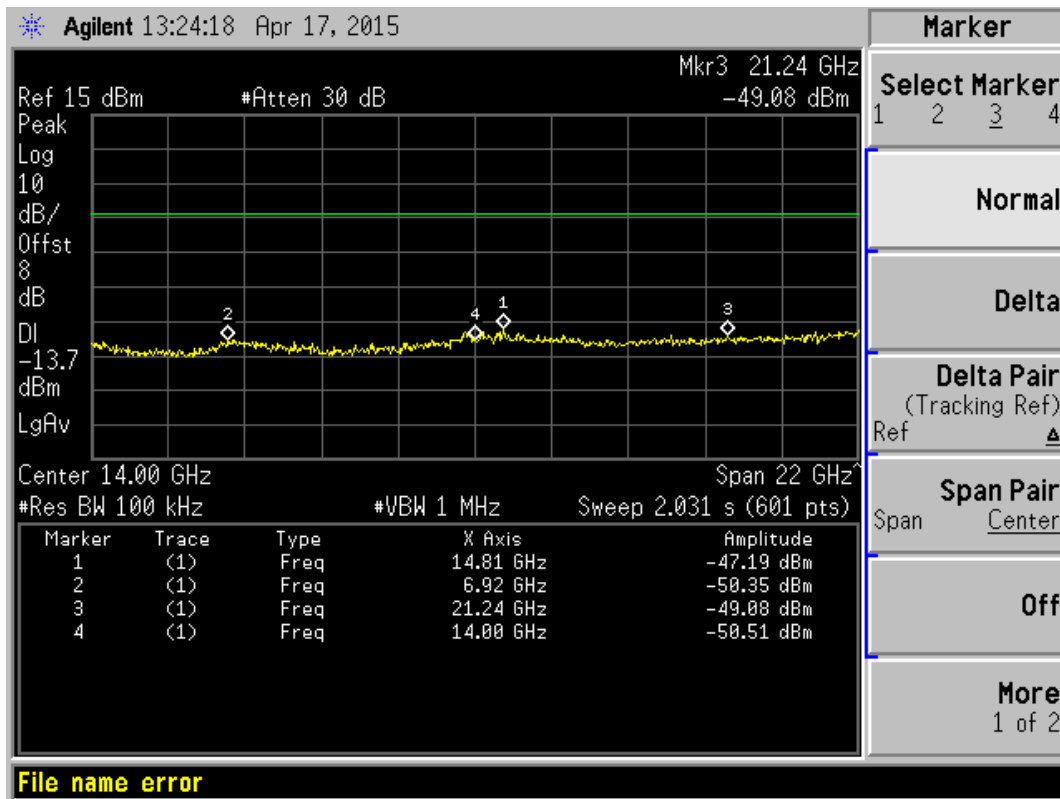
□/4-DQPSK LOW CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



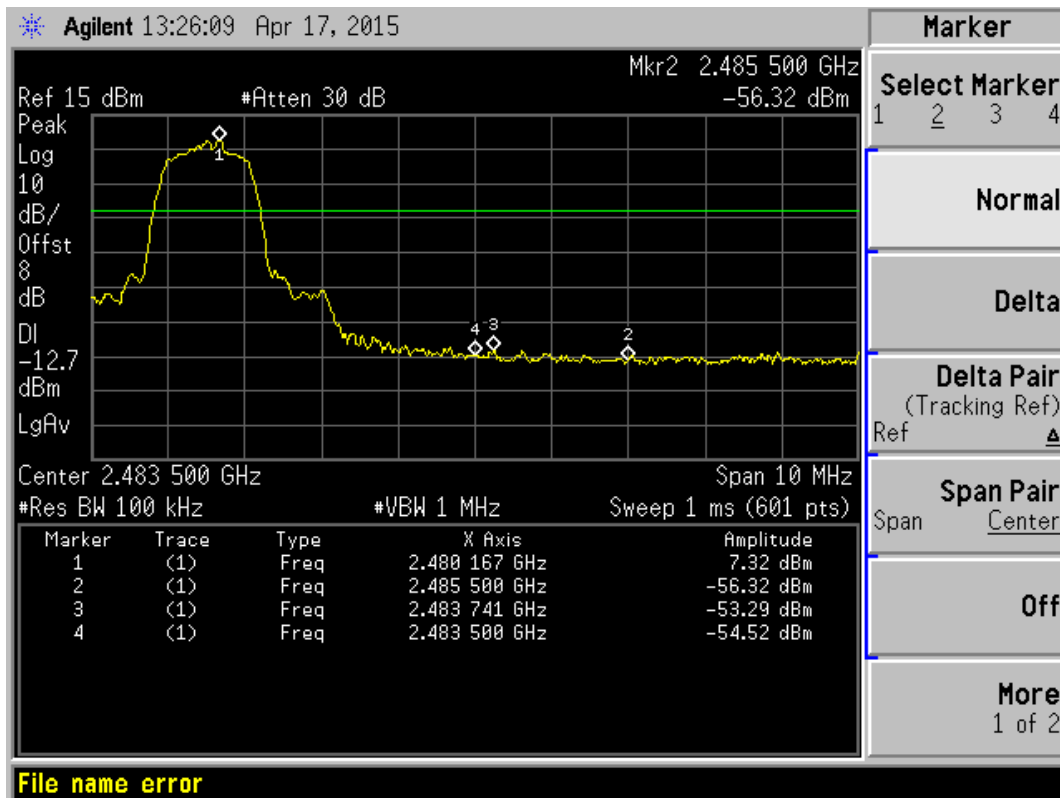
□/4-DQPSK MID CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



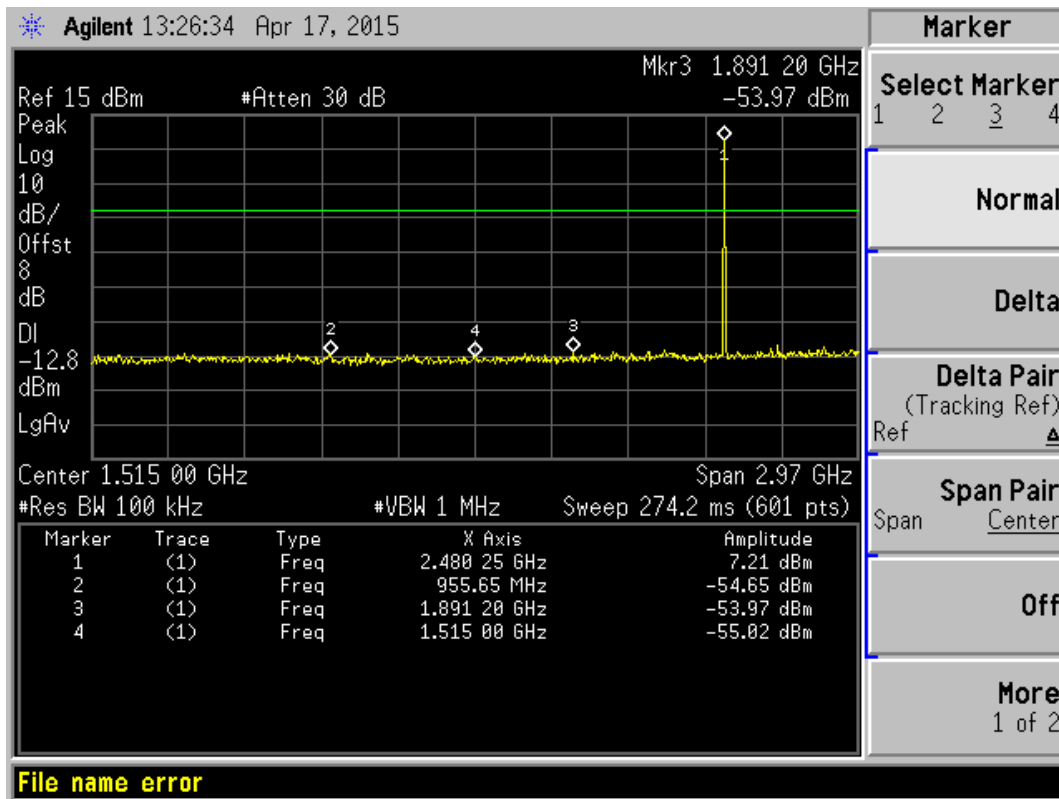
□/4-DQPSK MID CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



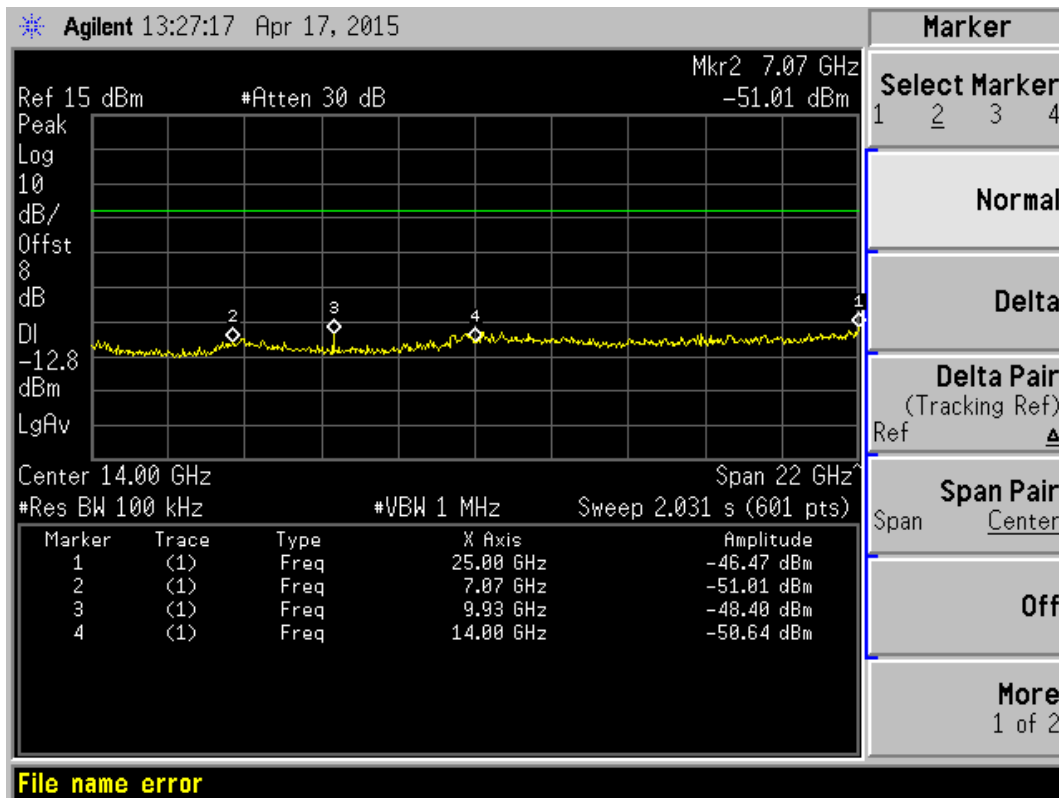
□/4-DQPSK HIGH CHANNEL , BAND EDGE



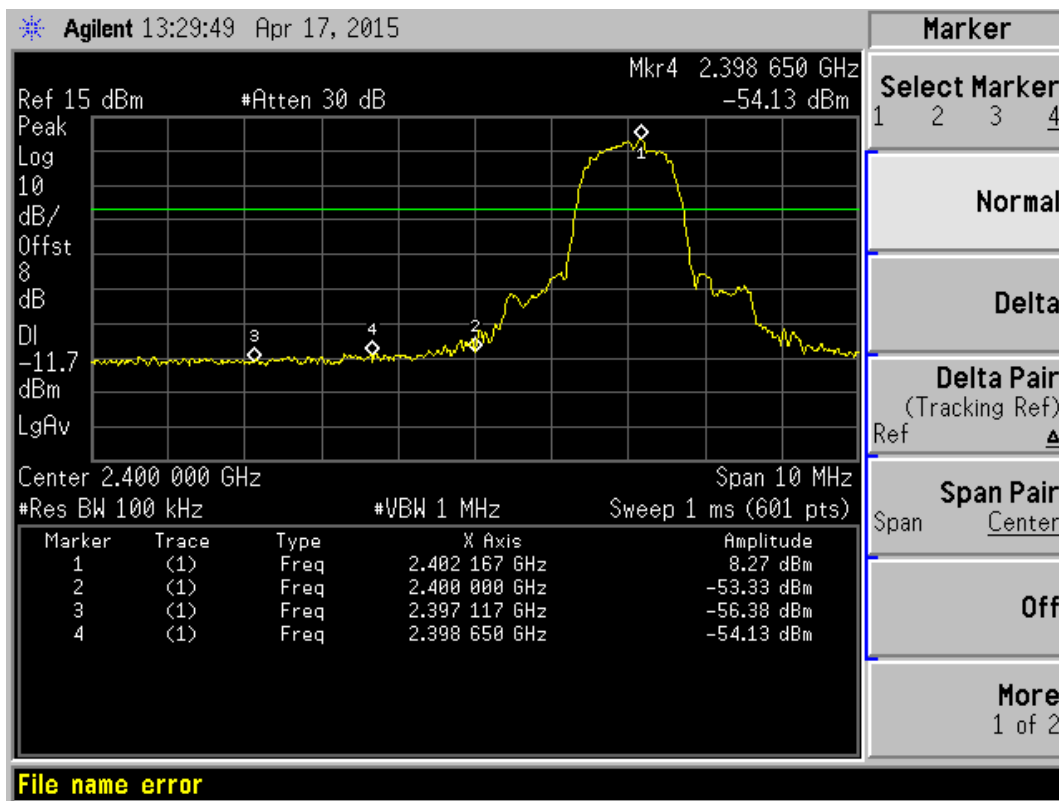
□/4-DQPSK HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



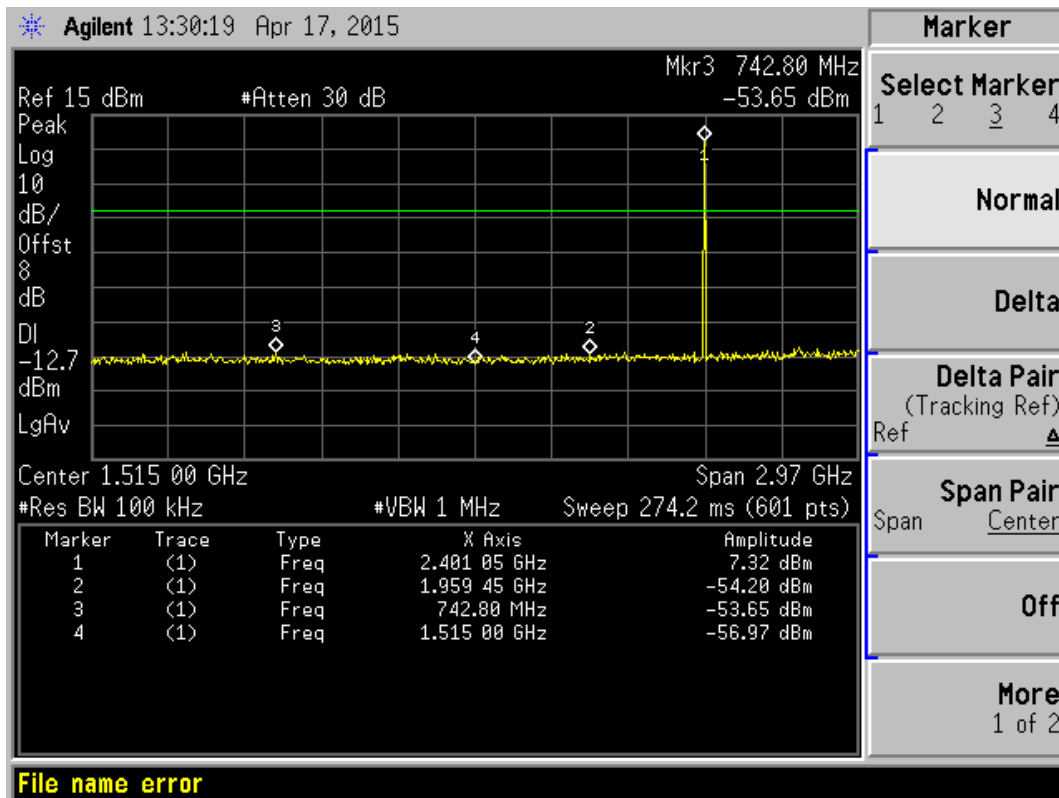
□/4-DQPSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



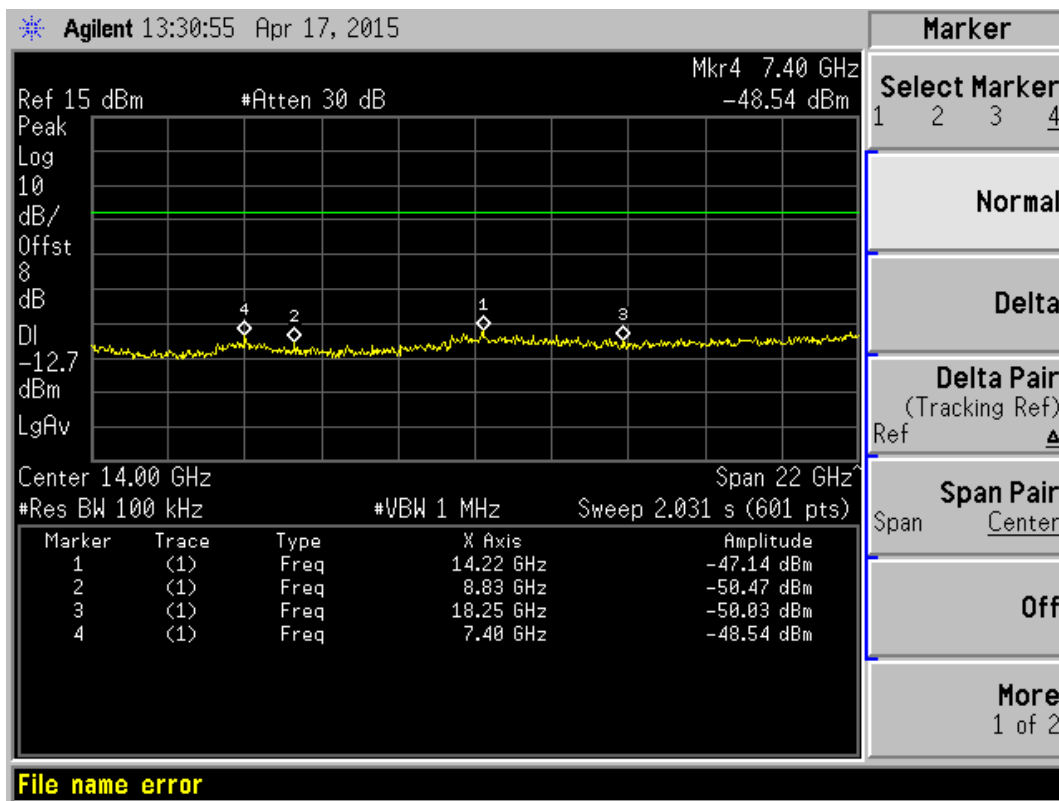
8-DPSK LOW CHANNEL , BAND EDGE



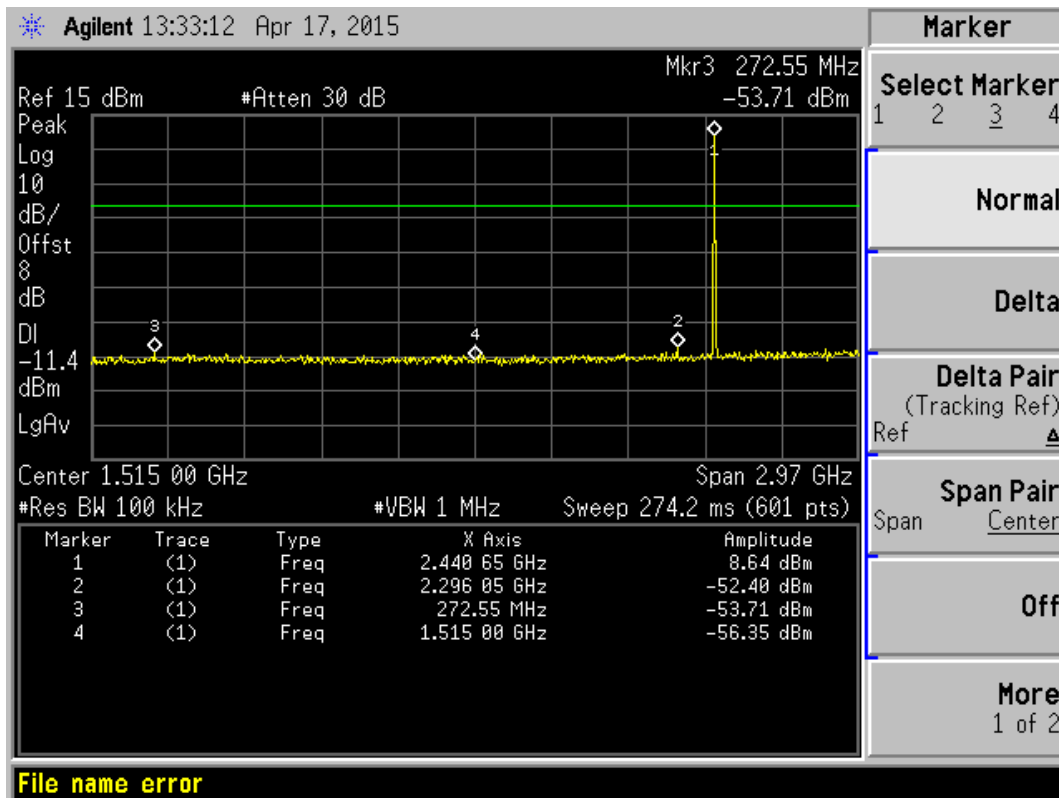
8-DPSK LOW CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



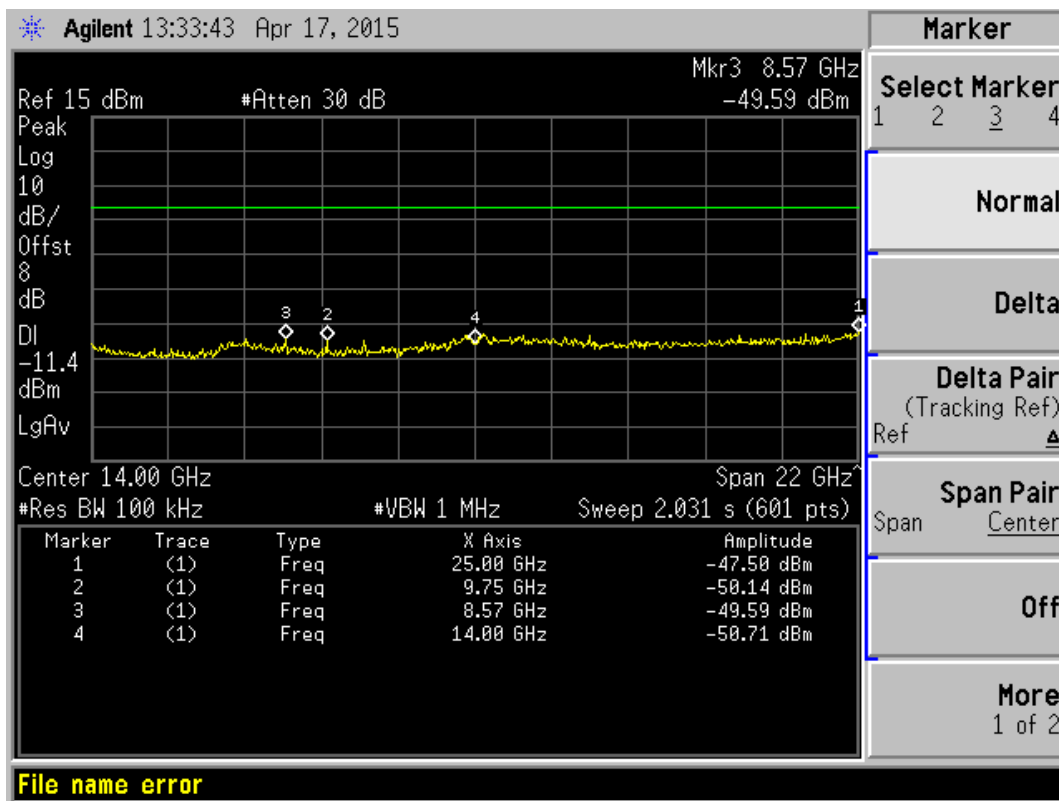
8-DPSK LOW CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



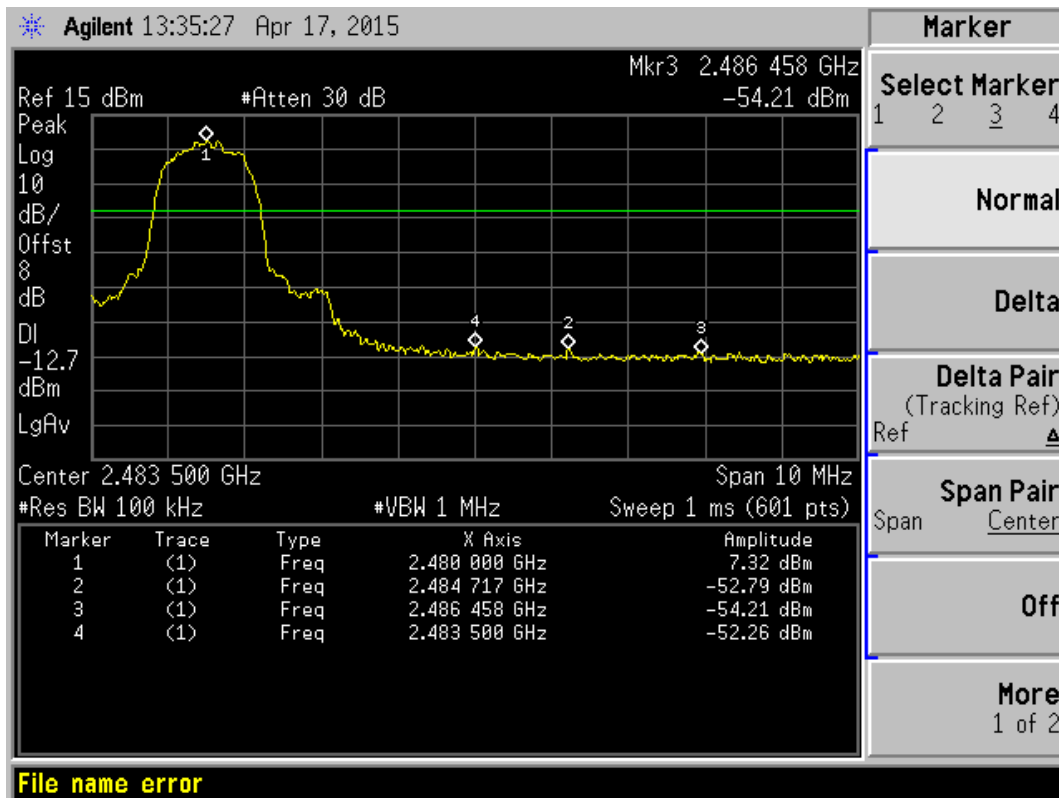
8-DPSK MID CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



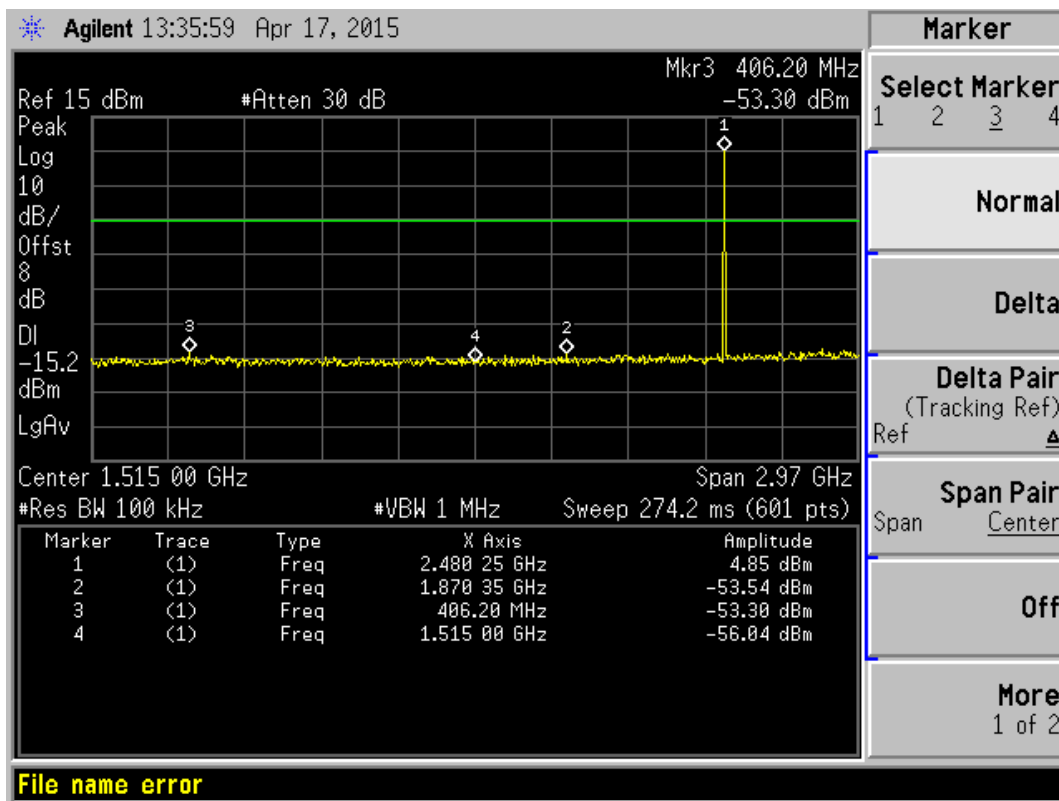
8-DPSK MID CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



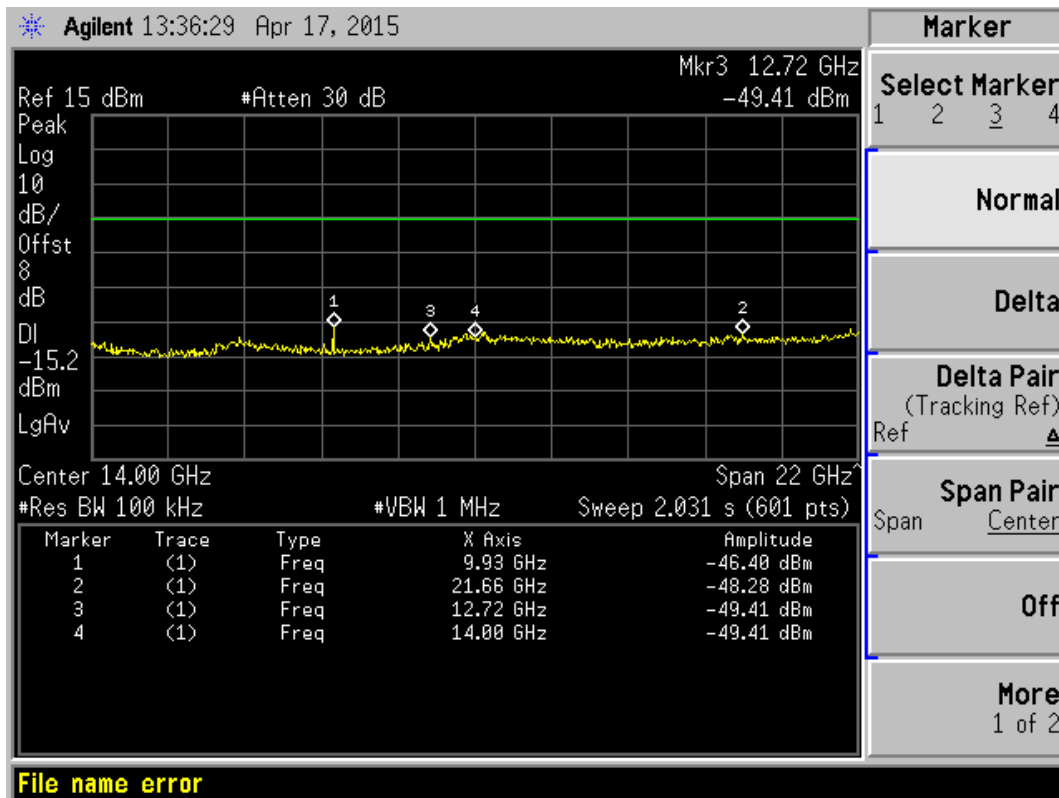
8-DPSK HIGH CHANNEL , BAND EDGE



8-DPSK HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



8-DPSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz

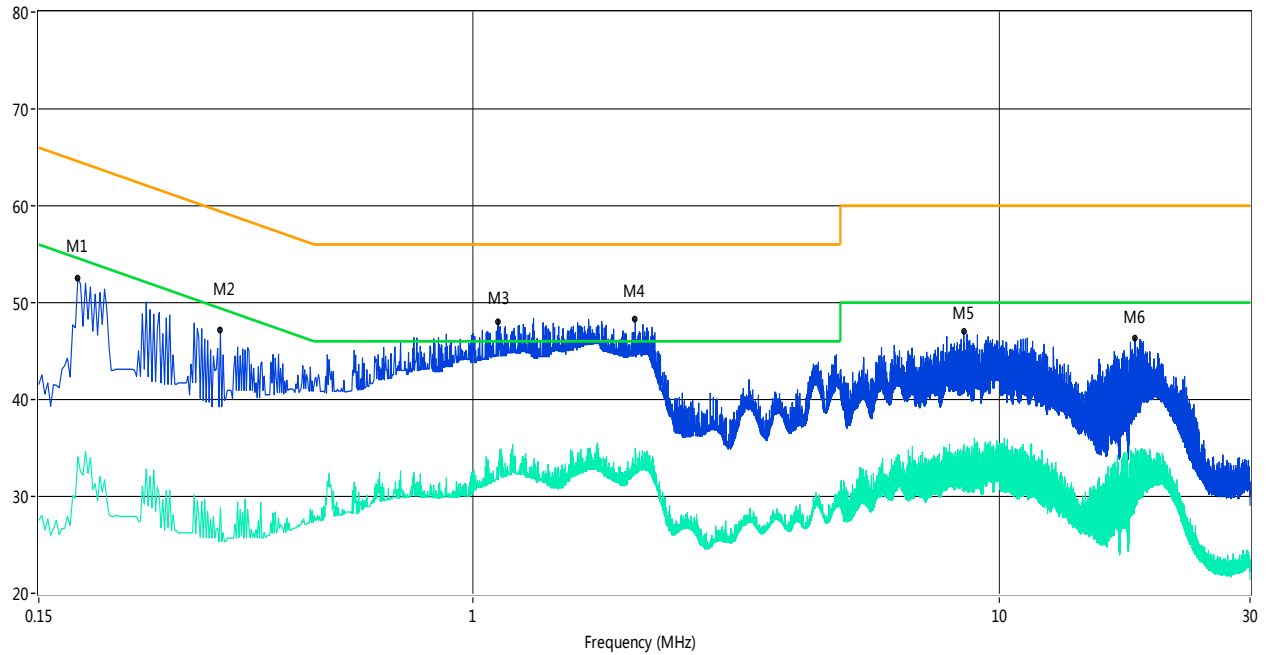


A.7 Conducted Emissions

Note: All configurations have been tested, only the worst configuration (GFSK Middle Channel) shown here.

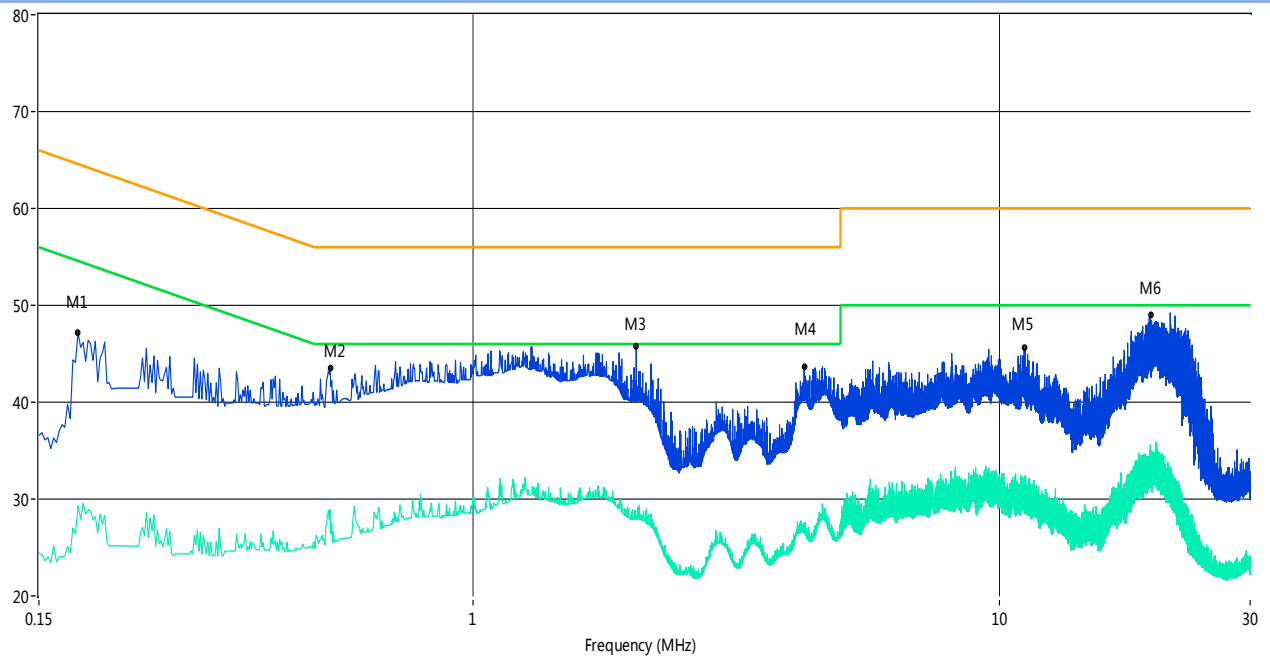
Test Data and Plots (Charger Mode Name: AK901)

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.18	52.5	13.00	65.2	12.70	Peak	L Line	Pass
1**	0.18	34.1	13.00	55.2	21.10	AV	L Line	Pass
2	0.33	47.2	13.00	60.8	13.60	Peak	L Line	Pass
2**	0.33	28.8	13.00	50.8	22.00	AV	L Line	Pass
3	1.12	48.1	13.00	56.0	7.90	Peak	L Line	Pass
3**	1.12	33.0	13.00	46.0	13.00	AV	L Line	Pass
4	2.04	48.3	13.00	56.0	7.70	Peak	L Line	Pass
4**	2.04	35.0	13.00	46.0	11.00	AV	L Line	Pass
5	8.58	47.0	13.00	60.0	13.00	Peak	L Line	Pass
5**	8.58	34.5	13.00	50.0	15.50	AV	L Line	Pass
6	18.14	46.3	13.00	60.0	13.70	Peak	L Line	Pass
6**	18.14	34.2	13.00	50.0	15.80	AV	L Line	Pass

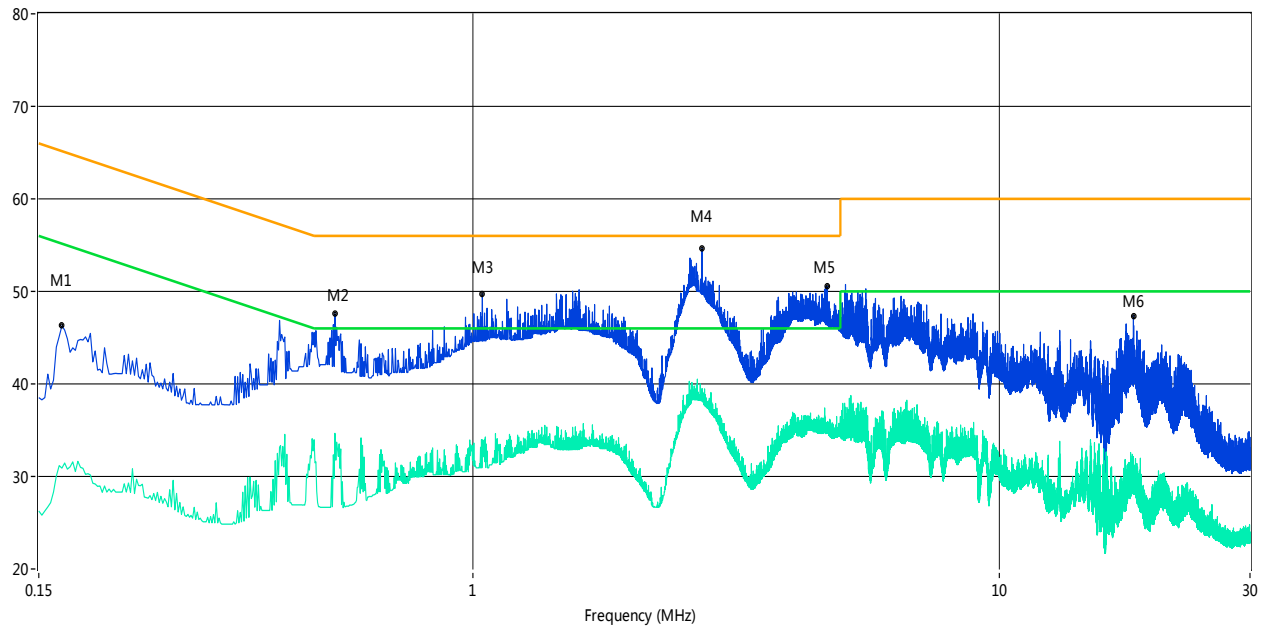
PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.18	47.2	13.00	65.2	18.00	Peak	N Line	Pass
1**	0.18	29.3	13.00	55.2	25.90	AV	N Line	Pass
2	0.54	43.6	13.00	56.0	12.40	Peak	N Line	Pass
2**	0.54	28.9	13.00	46.0	17.10	AV	N Line	Pass
3	2.05	45.7	13.00	56.0	10.30	Peak	N Line	Pass
3**	2.05	27.3	13.00	46.0	18.70	AV	N Line	Pass
4	4.26	43.7	13.00	56.0	12.30	Peak	N Line	Pass
4**	4.26	27.0	13.00	46.0	19.00	AV	N Line	Pass
5	11.17	45.6	13.00	60.0	14.40	Peak	N Line	Pass
5**	11.17	29.8	13.00	50.0	20.20	AV	N Line	Pass
6	19.41	49.0	13.00	60.0	11.00	Peak	N Line	Pass
6**	19.41	34.7	13.00	50.0	15.30	AV	N Line	Pass

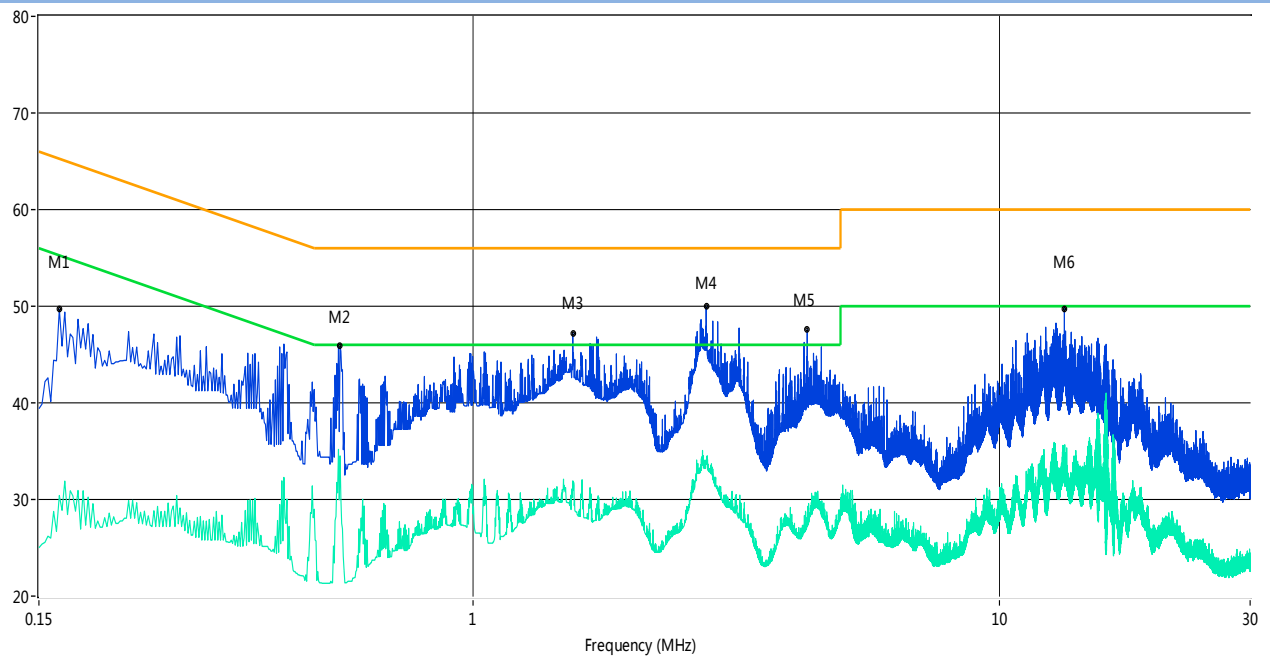
Test Data and Plots (Charger Mode Name: S01A22)

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.17	46.3	13.00	65.5	19.20	Peak	L Line	Pass
1**	0.17	30.9	13.00	55.5	24.60	AV	L Line	Pass
2	0.55	47.6	13.00	56.0	8.40	Peak	L Line	Pass
2**	0.55	34.7	13.00	46.0	11.30	AV	L Line	Pass
3	1.04	49.7	13.00	56.0	6.30	Peak	L Line	Pass
3**	1.04	34.0	13.00	46.0	12.00	AV	L Line	Pass
4	2.73	53.19	13.00	56.0	2.81	Peak	L Line	Pass
4*	2.73	46.63	13.00	56.0	9.37	QP	L Line	Pass
4**	2.73	38.01	13.00	46.0	7.99	AV	L Line	Pass
5	4.72	50.6	13.00	56.0	5.40	Peak	L Line	Pass
5**	4.72	35.9	13.00	46.0	10.10	AV	L Line	Pass
6	18.02	47.4	13.00	60.0	12.60	Peak	L Line	Pass
6**	18.02	31.2	13.00	50.0	18.80	AV	L Line	Pass

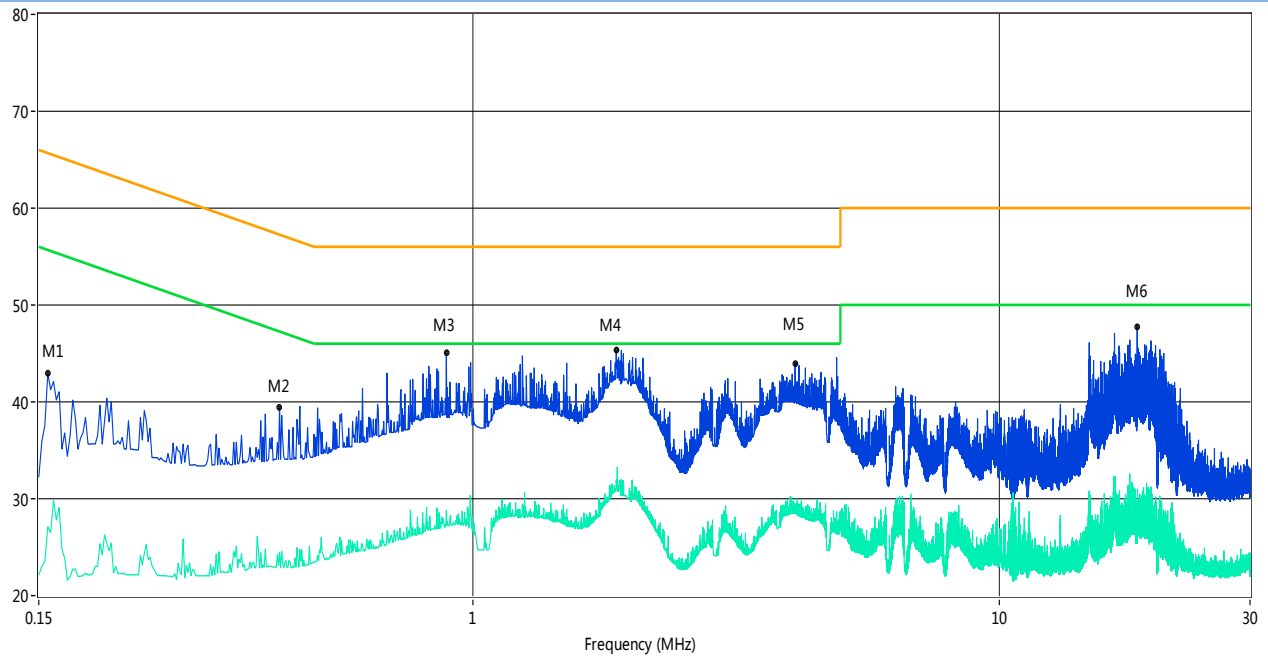
PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.16	49.7	13.00	65.6	15.90	Peak	N Line	Pass
1**	0.16	30.4	13.00	55.6	25.20	AV	N Line	Pass
2	0.56	45.9	13.00	56.0	10.10	Peak	N Line	Pass
2**	0.56	34.5	13.00	46.0	11.50	AV	N Line	Pass
3	1.55	47.2	13.00	56.0	8.80	Peak	N Line	Pass
3**	1.55	31.9	13.00	46.0	14.10	AV	N Line	Pass
4	2.78	49.9	13.00	56.0	6.10	Peak	N Line	Pass
4**	2.78	33.9	13.00	46.0	12.10	AV	N Line	Pass
5	4.32	47.6	13.00	56.0	8.40	Peak	N Line	Pass
5**	4.32	28.2	13.00	46.0	17.80	AV	N Line	Pass
6	13.31	49.7	13.00	60.0	10.30	Peak	N Line	Pass
6**	13.31	32.9	13.00	50.0	17.10	AV	N Line	Pass

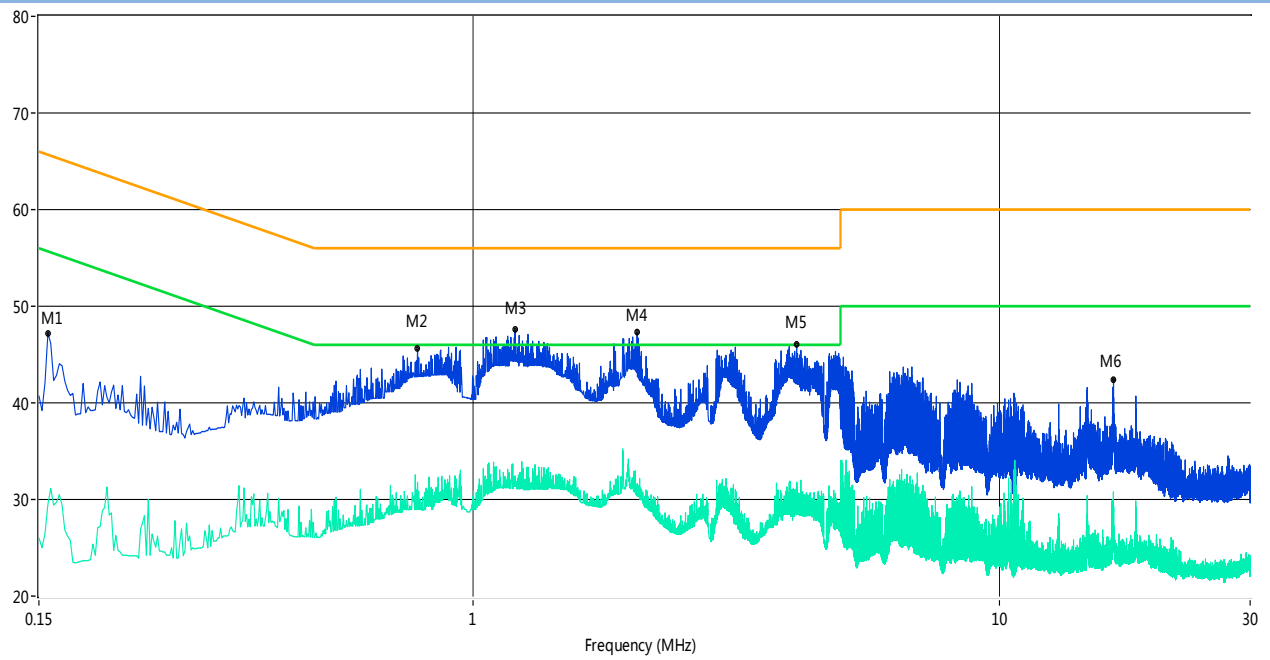
Test Data and Plots (Charger Mode Name: S005SU0500100)

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.16	42.9	13.00	65.8	22.90	Peak	L Line	Pass
1**	0.16	27.1	13.00	55.8	28.70	AV	L Line	Pass
2	0.43	39.5	13.00	58.0	18.50	Peak	L Line	Pass
2**	0.43	24.5	13.00	48.0	23.50	AV	L Line	Pass
3	0.89	45.0	13.00	56.0	11.00	Peak	L Line	Pass
3**	0.89	28.8	13.00	46.0	17.20	AV	L Line	Pass
4	1.88	45.3	13.00	56.0	10.70	Peak	L Line	Pass
4**	1.88	31.9	13.00	46.0	14.10	AV	L Line	Pass
5	4.10	44.0	13.00	56.0	12.00	Peak	L Line	Pass
5**	4.10	29.0	13.00	46.0	17.00	AV	L Line	Pass
6	18.31	47.7	13.00	60.0	12.30	Peak	L Line	Pass
6**	18.31	28.3	13.00	50.0	21.70	AV	L Line	Pass

PHASE N

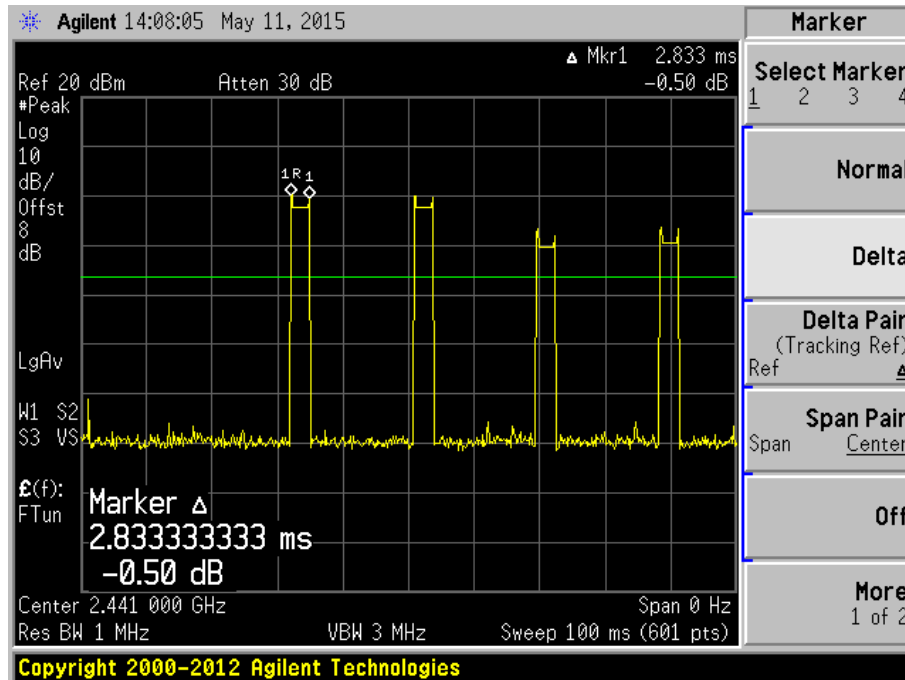


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.16	47.2	13.00	65.8	18.60	Peak	N Line	Pass
1**	0.16	29.5	13.00	55.8	26.30	AV	N Line	Pass
2	0.79	45.6	13.00	56.0	10.40	Peak	N Line	Pass
2**	0.79	31.8	13.00	46.0	14.20	AV	N Line	Pass
3	1.20	47.6	13.00	56.0	8.40	Peak	N Line	Pass
3**	1.20	32.4	13.00	46.0	13.60	AV	N Line	Pass
4	2.05	47.3	13.00	56.0	8.70	Peak	N Line	Pass
4**	2.05	31.6	13.00	46.0	14.40	AV	N Line	Pass
5	4.13	46.1	13.00	56.0	9.90	Peak	N Line	Pass
5**	4.13	31.3	13.00	46.0	14.70	AV	N Line	Pass
6	16.50	42.4	13.00	60.0	17.60	Peak	N Line	Pass
6**	16.50	28.8	13.00	50.0	21.20	AV	N Line	Pass

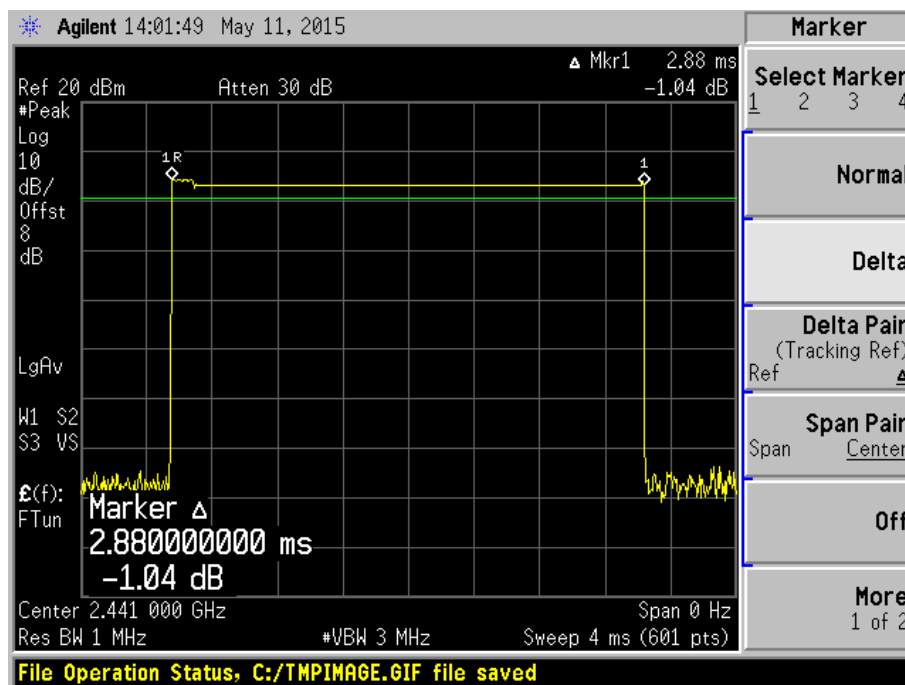
A.8 Radiated Emission

Duty cycle correction factor for average measurement.

DH5 on time/100ms(Count Pulses) Plot on Channel 39



DH5 on time/100ms(One Pulse) Plot on Channel 39



Note:

1. Duty cycle = on time/100 milliseconds = $4 \times 2.88 / 100 = 11.52 \%$
2. Duty cycle correction factor = $20 \times \log(\text{Duty cycle}) = -18.77 \text{ dB}$
3. DH5 has the highest duty cycle and is reported.

Note 1: The symbol of “--” in the table which means not application.

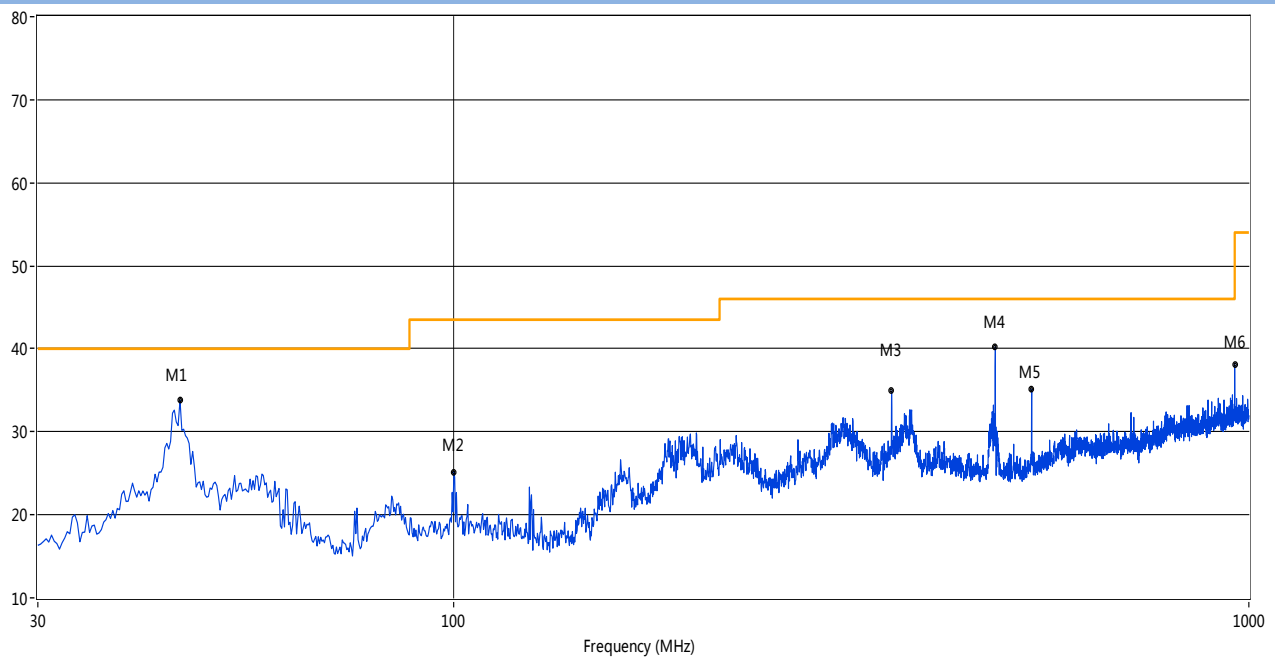
Note 2: For the test data above 1 GHz, According the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: All configurations have been tested, only the worst configuration (GFSK Middle Channel) shown here.

Test Data and Plots

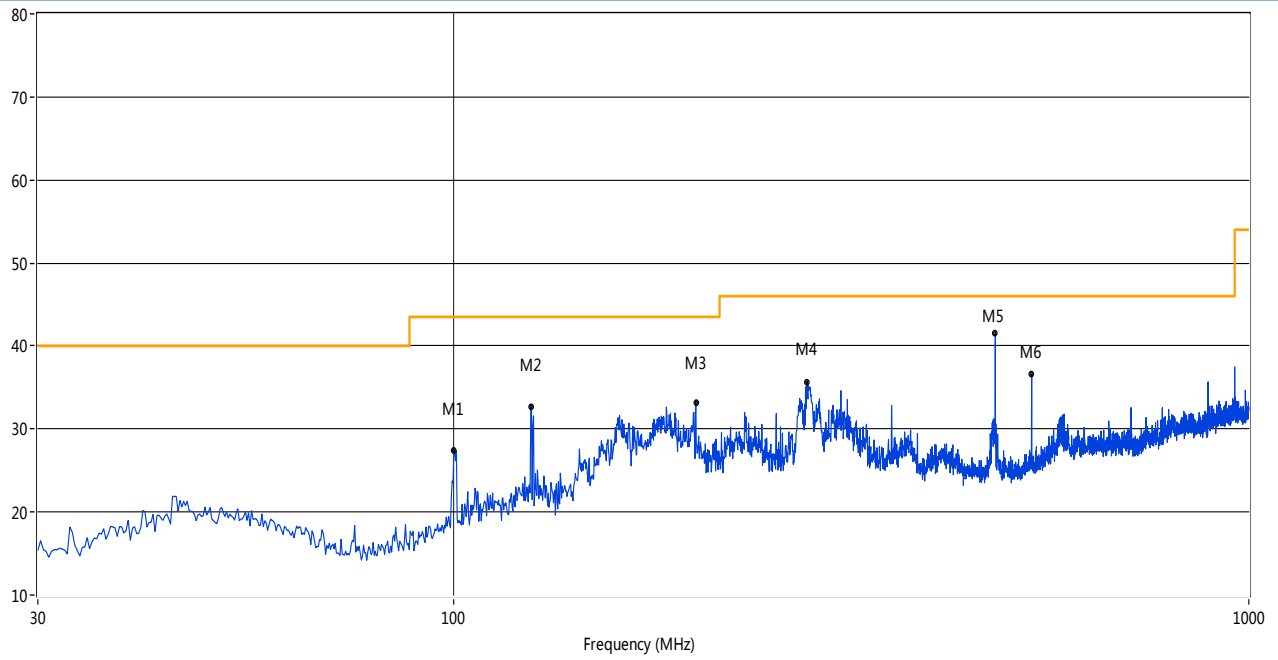
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	45.27	33.81	-18.79	40.0	6.19	Peak	22.10	100	Vertical	Pass
2	100.06	25.17	-20.26	43.5	18.33	Peak	326.20	100	Vertical	Pass
3	355.35	34.91	-16.17	46.0	11.09	Peak	359.20	100	Vertical	Pass
4	479.97	40.26	-13.81	46.0	5.74	Peak	335.50	100	Vertical	Pass
5	533.30	35.10	-12.35	46.0	10.90	Peak	271.00	100	Vertical	Pass
6	959.75	38.12	-5.02	46.0	7.88	Peak	31.30	100	Vertical	Pass

30 MHz to 1 GHz, ANT H

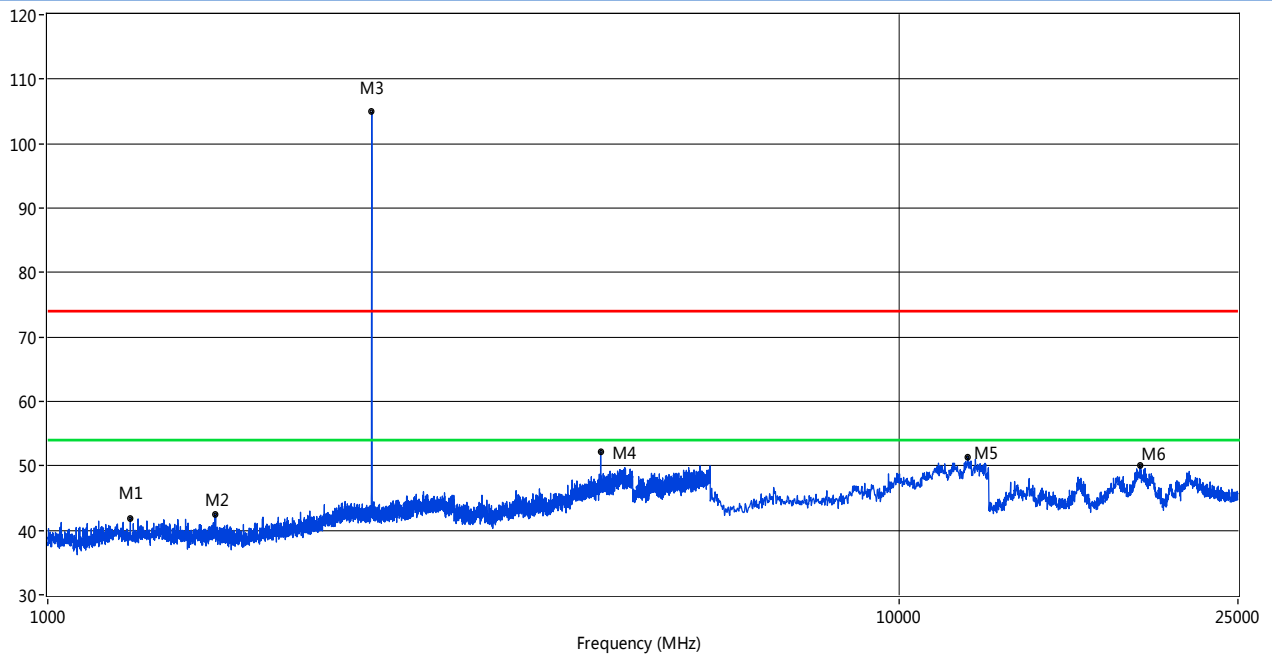


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	100.06	27.44	-20.26	43.5	16.06	Peak	357.40	100	Horizontal	Pass
2	125.04	32.73	-22.49	43.5	10.77	Peak	316.50	100	Horizontal	Pass
3	201.65	33.20	-20.19	43.5	10.30	Peak	316.50	100	Horizontal	Pass
4	278.26	35.66	-18.41	46.0	10.34	Peak	178.70	100	Horizontal	Pass
5	479.97	41.52	-13.81	46.0	4.48	Peak	252.00	100	Horizontal	Pass
6	533.30	36.56	-12.35	46.0	9.44	Peak	1.60	100	Horizontal	Pass

Note: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

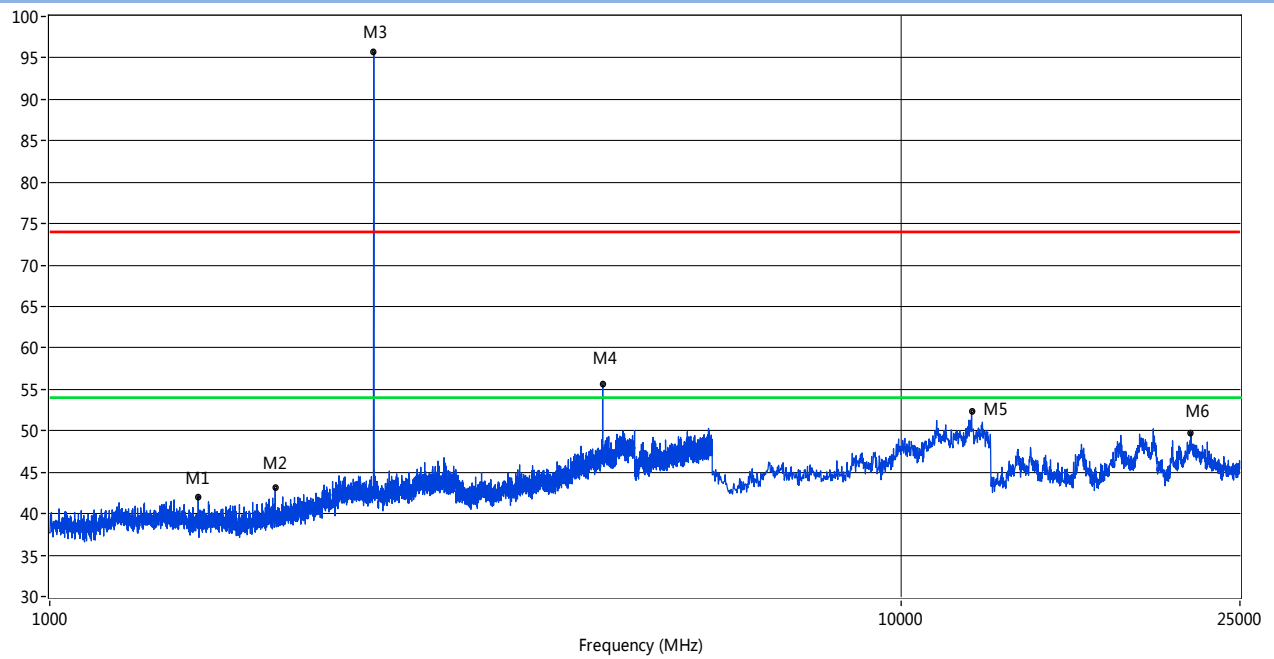
Test Data and Plots (1GHz ~ 10th Harmonic)

GFSK LOW CHANNEL 1 GHz to 25 GHz, ANT V



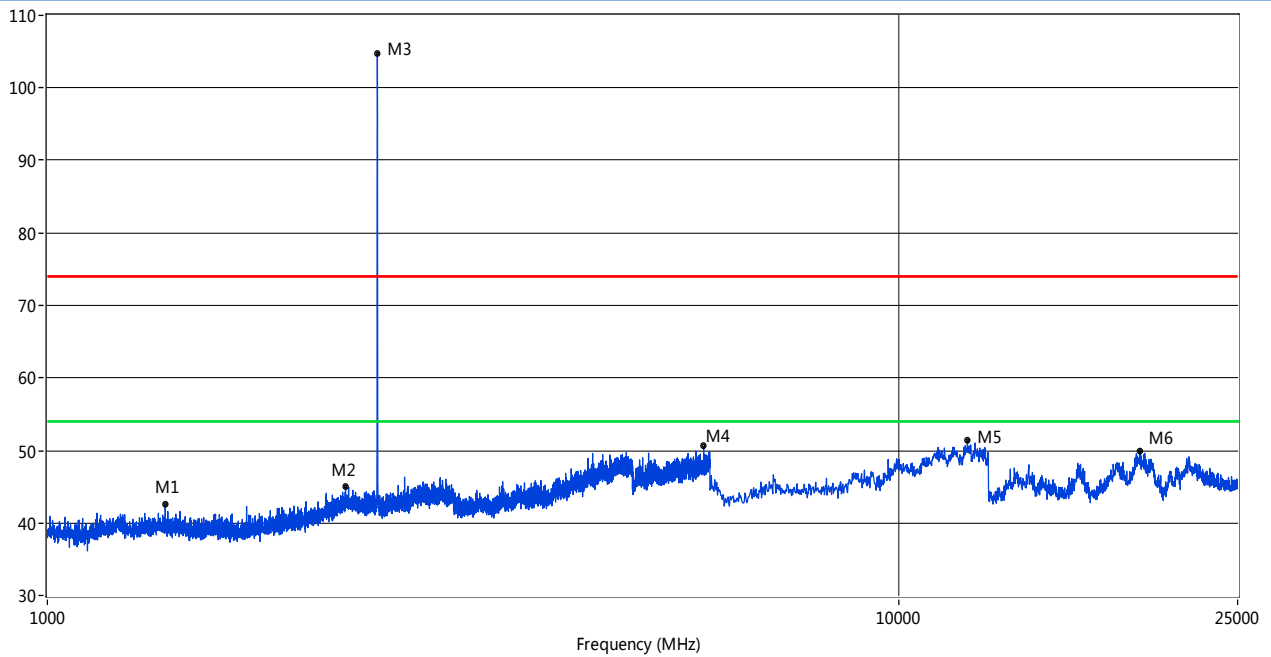
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1250.44	41.81	-5.19	74.0	32.19	Peak	272.90	100	Vertical	PASS
2	1572.36	42.51	-4.15	74.0	31.49	Peak	91.00	100	Vertical	PASS
3	2402.15	104.91	-0.34	74.0	-30.91	Peak	328.60	100	Vertical	N/A
4	4461.39	52.21	12.42	74.0	21.79	Peak	357.40	100	Vertical	PASS
5	12042.43	51.44	20.83	74.0	22.56	Peak	181.30	100	Vertical	PASS
6	19179.70	50.00	14.04	74.0	24.00	Peak	350.40	100	Vertical	PASS

GFSK LOW CHANNEL 1 GHz to 25 GHz, ANT H



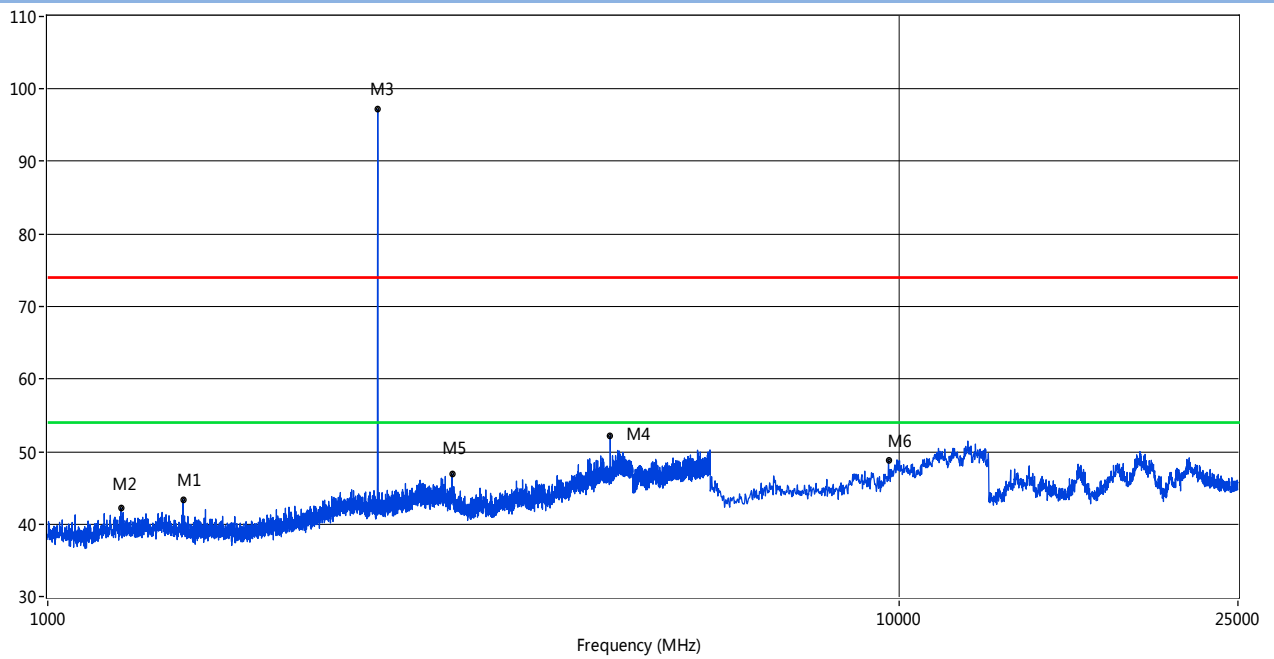
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1493.88	42.05	-4.45	74.0	31.95	Peak	28.00	100	Horizontal	PASS
2	1839.79	43.10	-3.23	74.0	30.90	Peak	195.00	100	Horizontal	PASS
3	2402.15	95.71	-0.34	74.0	-21.71	Peak	281.60	100	Horizontal	N/A
4	4461.39	55.56	12.42	74.0	18.44	Peak	124.50	100	Horizontal	PASS
4**	4461.39	36.79	12.42	54.0	17.21	Average	124.50	100	Horizontal	PASS
5	12098.59	52.28	20.77	74.0	21.72	Peak	355.00	100	Horizontal	PASS
6	21895.17	49.78	12.59	74.0	24.22	Peak	-0.20	100	Horizontal	PASS

GFSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT V



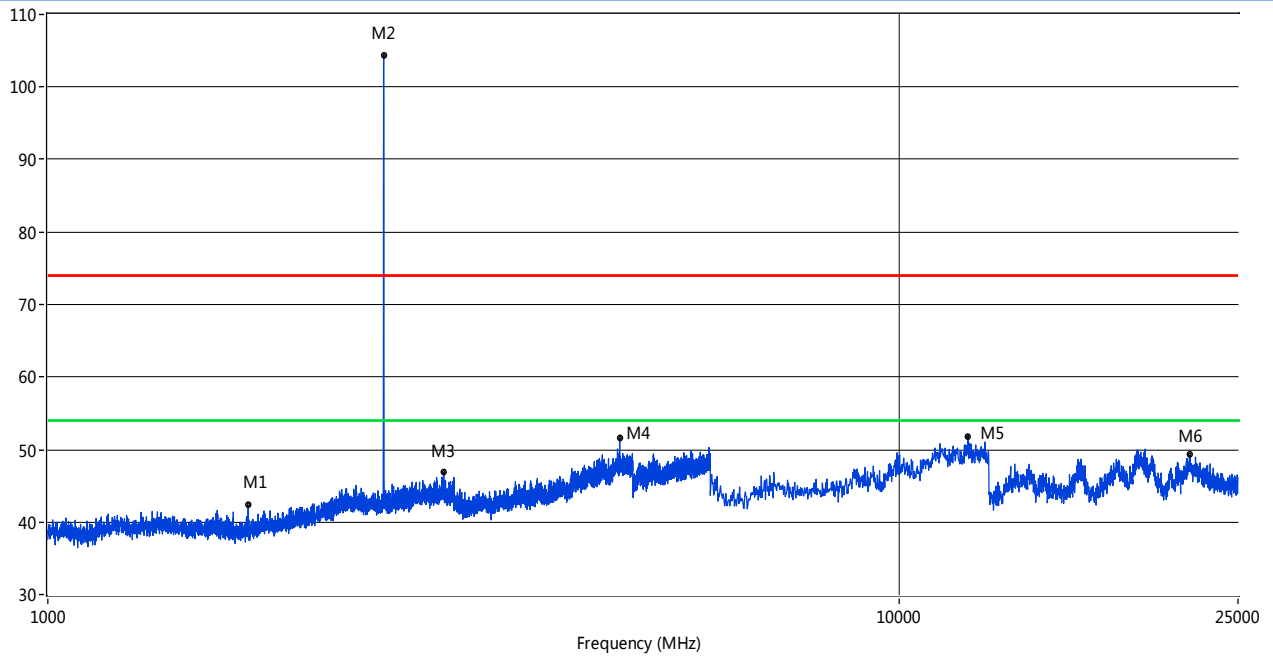
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1375.41	42.57	-4.53	74.0	31.43	Peak	3.50	100	Vertical	PASS
2	2239.69	45.07	-0.20	74.0	28.93	Peak	339.90	100	Vertical	PASS
3	2441.14	104.83	-0.38	74.0	-30.83	Peak	324.00	100	Vertical	N/A
4	5898.77	50.61	15.43	74.0	23.39	Peak	328.70	100	Vertical	PASS
5	12042.43	51.44	20.83	74.0	22.56	Peak	181.30	100	Vertical	PASS
6	19179.70	50.00	14.04	74.0	24.00	Peak	350.40	100	Vertical	PASS

GFSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT H



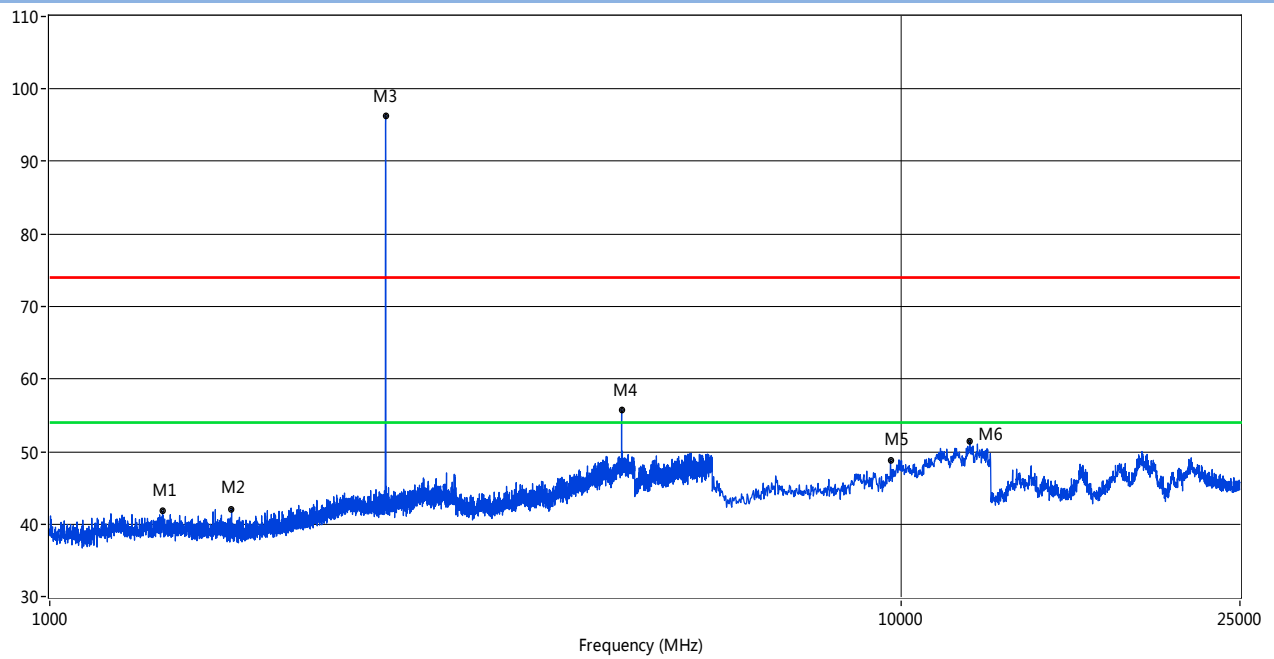
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1441.89	43.35	-4.51	74.0	30.65	Peak	146.80	100	Horizontal	PASS
2	1218.44	42.20	-5.14	74.0	31.80	Peak	226.00	100	Horizontal	PASS
3	2441.14	97.16	-0.38	74.0	-23.16	Peak	281.40	100	Horizontal	N/A
4	4578.35	52.18	12.86	74.0	21.82	Peak	163.70	100	Horizontal	PASS
5	2984.50	46.90	2.26	74.0	27.10	Peak	233.70	100	Horizontal	PASS
6	9717.55	48.76	17.74	74.0	25.24	Peak	127.40	100	Horizontal	PASS

GFSK HIGH CHANNEL 1 GHz to 25 GHz, ANT V



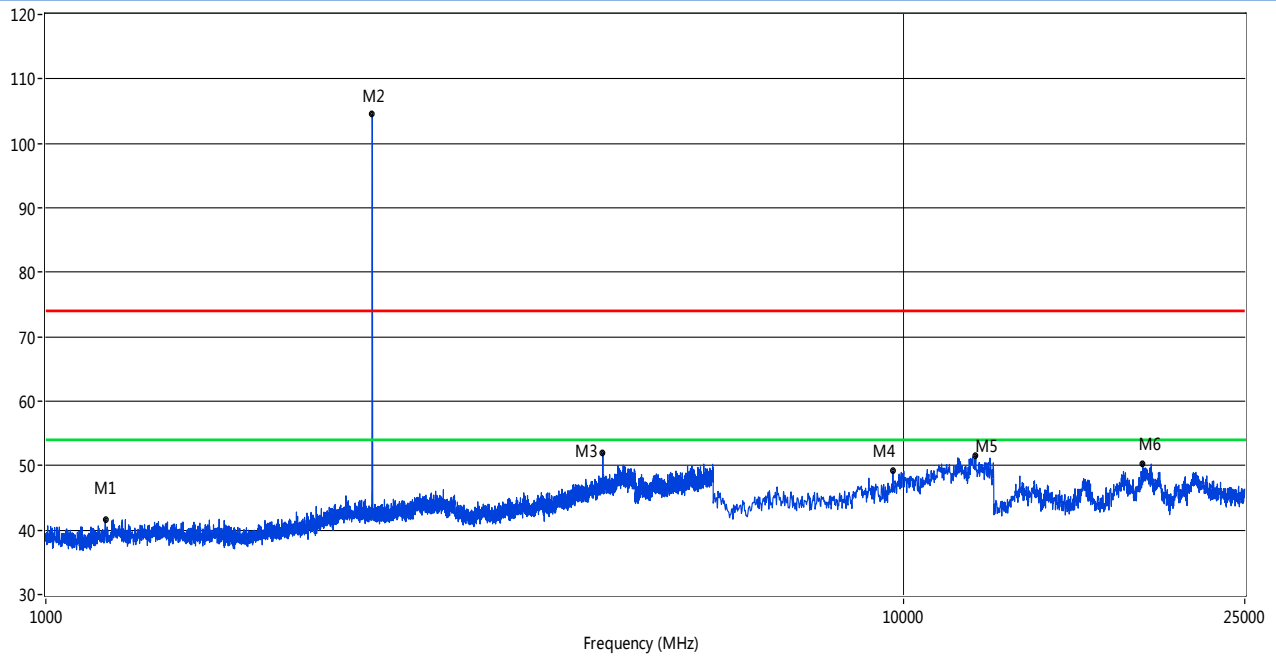
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1719.32	42.35	-4.10	74.0	31.65	Peak	196.30	100	Vertical	PASS
2	2480.13	104.46	-0.60	74.0	-30.46	Peak	315.60	100	Vertical	N/A
3	2917.52	46.82	2.17	74.0	27.18	Peak	315.60	100	Vertical	PASS
4	4695.33	51.55	13.21	74.0	22.45	Peak	57.50	100	Vertical	PASS
5	12042.43	51.86	20.83	74.0	22.14	Peak	181.30	100	Vertical	PASS
6	21925.12	49.25	12.54	74.0	24.75	Peak	179.40	100	Vertical	PASS

GFSK HIGH CHANNEL 1 GHz to 25 GHz, ANT H



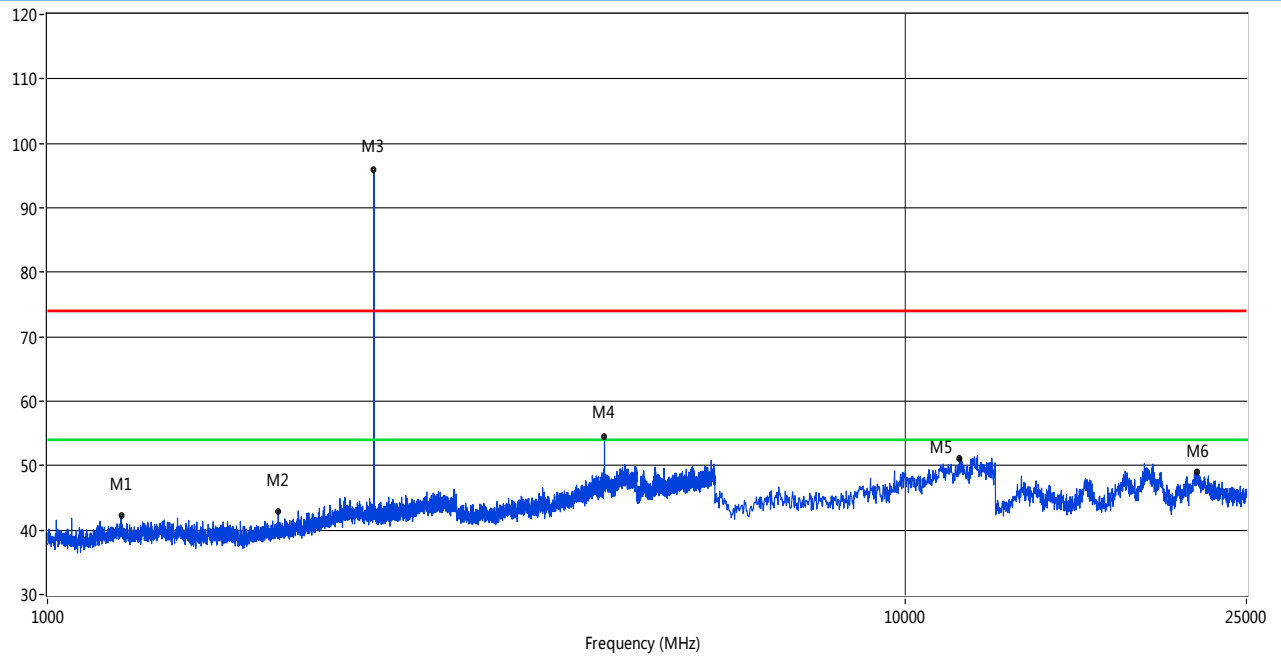
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1356.91	41.79	-4.47	74.0	32.21	Peak	34.40	100	Horizontal	PASS
2	1635.34	42.09	-4.28	74.0	31.91	Peak	129.60	100	Horizontal	PASS
3	2480.13	96.38	-0.60	74.0	-22.38	Peak	280.70	100	Horizontal	N/A
4	4695.33	55.74	13.21	74.0	18.26	Peak	157.40	100	Horizontal	PASS
4**	4695.33	36.97	13.21	54.0	17.03	Average	157.40	100	Horizontal	PASS
5	9717.55	48.76	17.74	74.0	25.24	Peak	127.40	100	Horizontal	PASS
6	12042.43	51.44	20.83	74.0	22.56	Peak	181.30	100	Horizontal	PASS

Π/4-DQPSK LOW CHANNEL 1 GHz to 25 GHz, ANT V



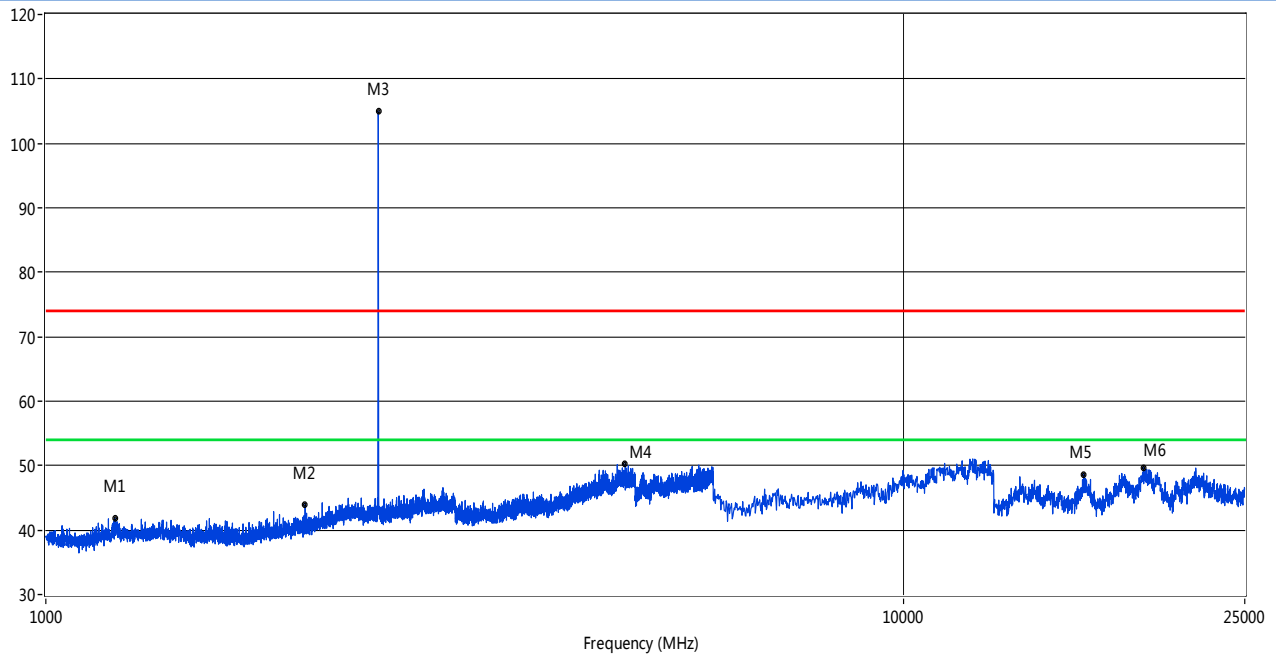
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1172.96	41.65	-5.71	74.0	32.35	Peak	11.60	100	Vertical	PASS
2	2402.15	104.58	-0.34	74.0	-30.58	Peak	328.80	100	Vertical	N/A
3	4461.39	51.98	12.42	74.0	22.02	Peak	346.70	100	Vertical	PASS
4	9717.55	49.19	17.74	74.0	24.81	Peak	1.50	100	Vertical	PASS
5	12143.51	51.56	20.72	74.0	22.44	Peak	41.50	100	Vertical	PASS
6	19009.98	50.30	13.42	74.0	23.70	Peak	189.80	100	Vertical	PASS

Π/4-DQPSK LOW CHANNEL 1 GHz to 25 GHz, ANT H



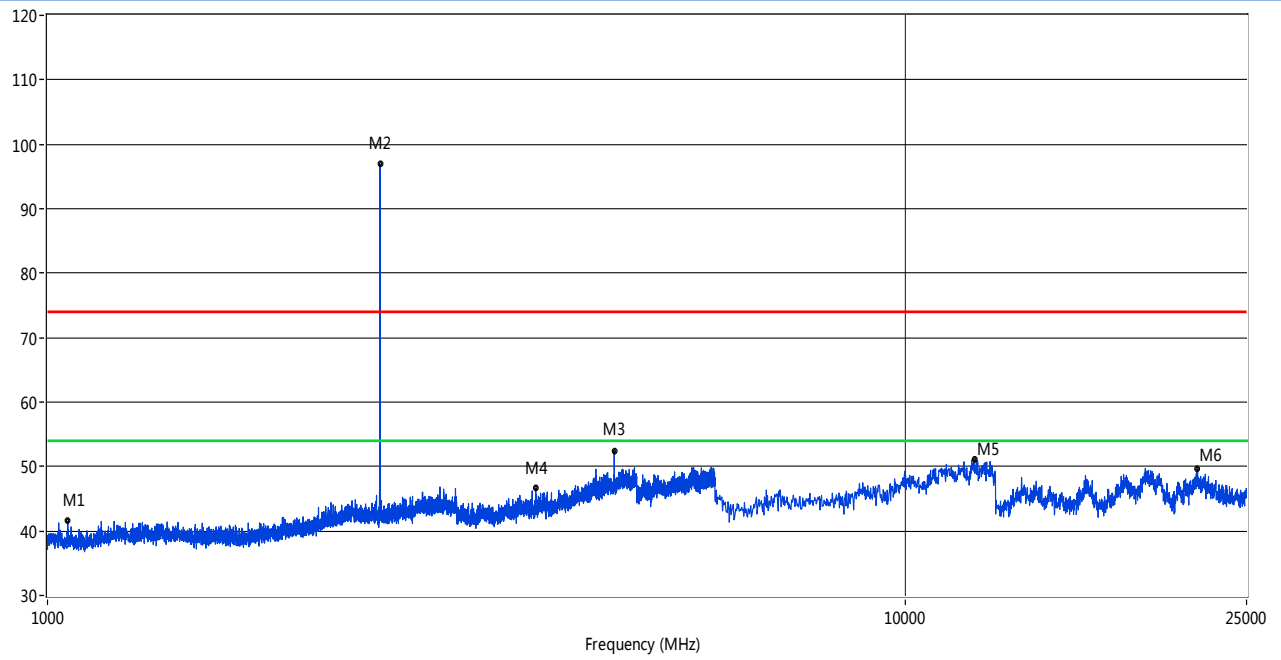
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1218.44	42.23	-5.14	74.0	31.77	Peak	274.60	100	Horizontal	PASS
2	1857.79	42.91	-3.07	74.0	31.09	Peak	227.10	100	Horizontal	PASS
3	2402.15	95.83	-0.34	74.0	-21.83	Peak	282.60	100	Horizontal	N/A
4	4461.39	54.49	12.42	74.0	19.51	Peak	124.20	100	Horizontal	PASS
4**	4461.39	35.72	12.42	54.0	18.28	Average	124.20	100	Horizontal	PASS
5	11570.72	51.21	20.24	74.0	22.79	Peak	83.70	100	Horizontal	PASS
6	21915.14	48.95	12.55	74.0	25.05	Peak	338.90	100	Horizontal	PASS

Π/4-DQPSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT V



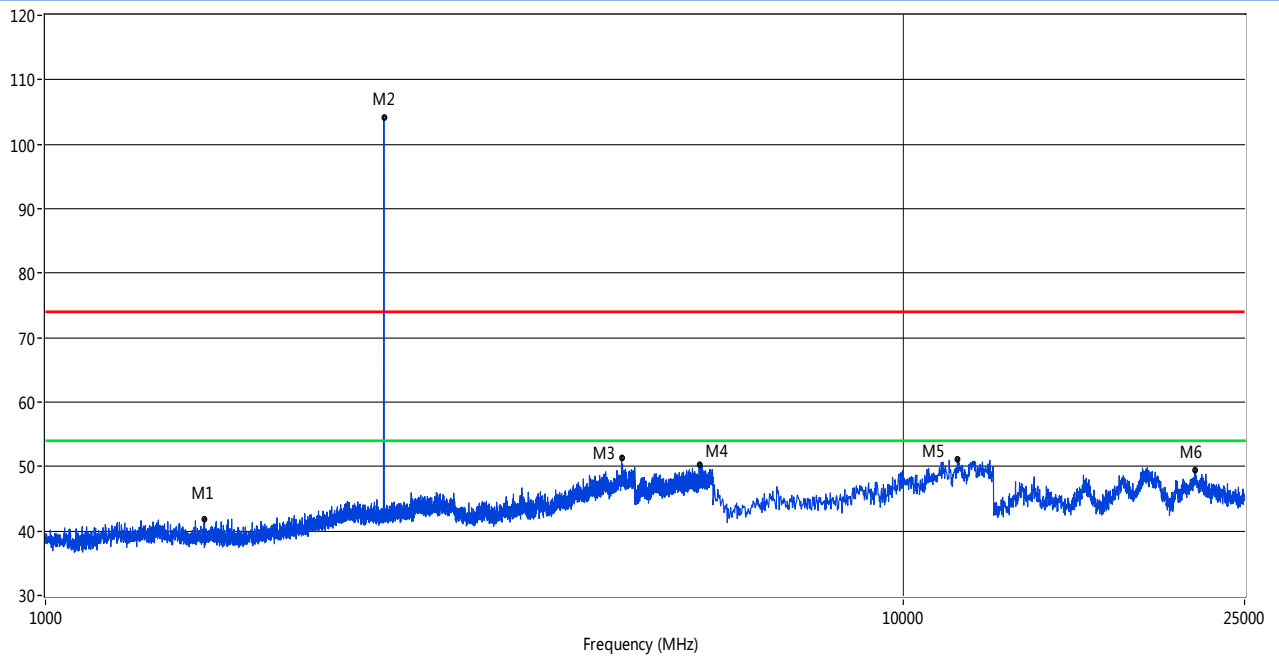
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1204.45	41.85	-5.24	74.0	32.15	Peak	106.70	100	Vertical	PASS
2	2006.25	44.03	-2.26	74.0	29.97	Peak	312.60	100	Vertical	PASS
3	2441.14	105.00	-0.38	74.0	-31.00	Peak	320.40	100	Vertical	N/A
4	4738.06	50.34	13.55	74.0	23.66	Peak	232.00	100	Vertical	PASS
5	16223.38	48.64	11.41	74.0	25.36	Peak	43.40	100	Vertical	PASS
6	19049.92	49.70	13.57	74.0	24.30	Peak	360.00	100	Vertical	PASS

Π/4-DQPSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT H



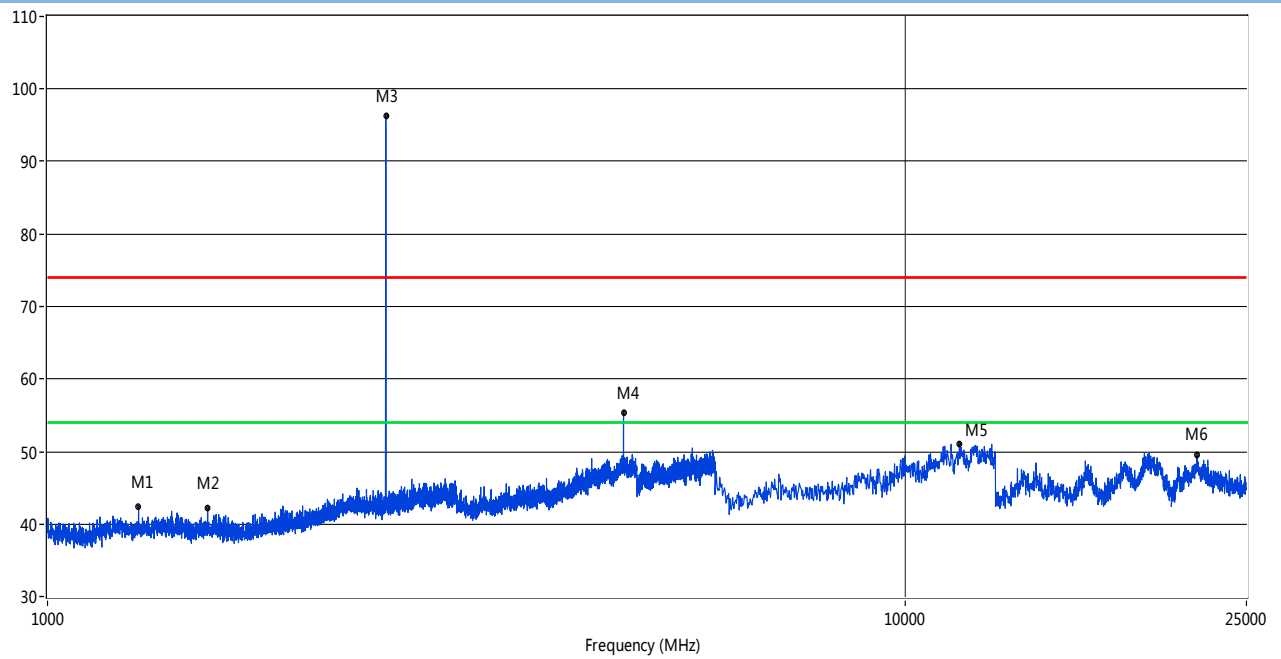
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1055.99	41.57	-6.14	74.0	32.43	Peak	124.00	100	Horizontal	PASS
2	2441.14	96.87	-0.38	74.0	-22.87	Peak	282.90	100	Horizontal	N/A
3	4578.35	52.32	12.86	74.0	21.68	Peak	126.60	100	Horizontal	PASS
4	3708.57	46.59	10.46	74.0	27.41	Peak	209.20	100	Horizontal	PASS
5	12042.43	51.05	20.83	74.0	22.95	Peak	0.30	100	Horizontal	PASS
6	21915.14	49.62	12.55	74.0	24.38	Peak	338.90	100	Horizontal	PASS

$\pi/4$ -DQPSK HIGH CHANNEL 1 GHz to 25 GHz, ANT V



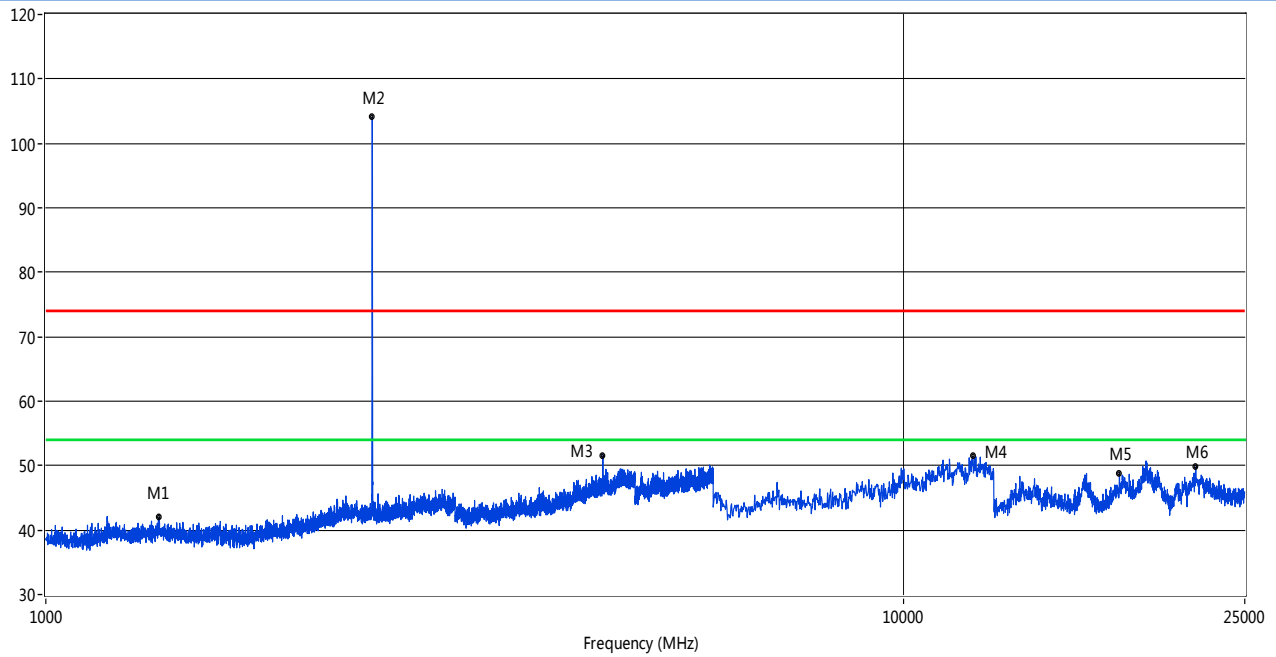
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1532.37	41.84	-4.36	74.0	32.16	Peak	173.30	100	Vertical	PASS
2	2480.13	104.08	-0.60	74.0	-30.08	Peak	316.00	100	Vertical	N/A
3	4695.33	51.34	13.21	74.0	22.66	Peak	65.50	100	Vertical	PASS
4	5782.55	50.22	15.59	74.0	23.78	Peak	314.80	100	Vertical	PASS
5	11570.72	51.04	20.24	74.0	22.96	Peak	83.70	100	Vertical	PASS
6	21915.14	49.46	12.55	74.0	24.54	Peak	338.90	100	Vertical	PASS

$\pi/4$ -DQPSK HIGH CHANNEL 1 GHz to 25 GHz, ANT H



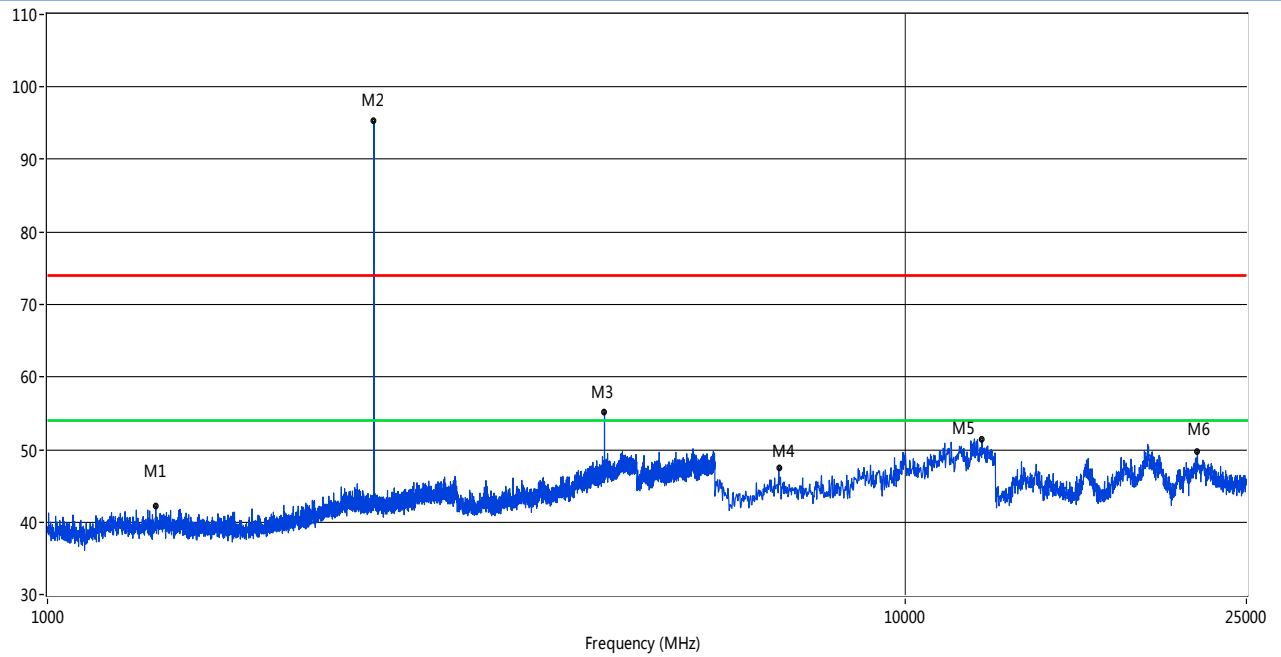
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1276.93	42.41	-4.83	74.0	31.59	Peak	51.30	100	Horizontal	PASS
2	1537.37	42.15	-4.24	74.0	31.85	Peak	115.10	100	Horizontal	PASS
3	2480.13	96.31	-0.60	74.0	-22.31	Peak	282.80	100	Horizontal	N/A
4	4695.33	55.34	13.21	74.0	18.66	Peak	158.30	100	Horizontal	PASS
4**	4695.33	36.57	13.21	54.0	17.43	Average	158.30	100	Horizontal	PASS
5	11570.72	51.04	20.24	74.0	22.96	Peak	83.70	100	Horizontal	PASS
6	21915.14	49.46	12.55	74.0	24.54	Peak	338.90	100	Horizontal	PASS

8-DPSK LOW CHANNEL 1 GHz to 25 GHz, ANT V



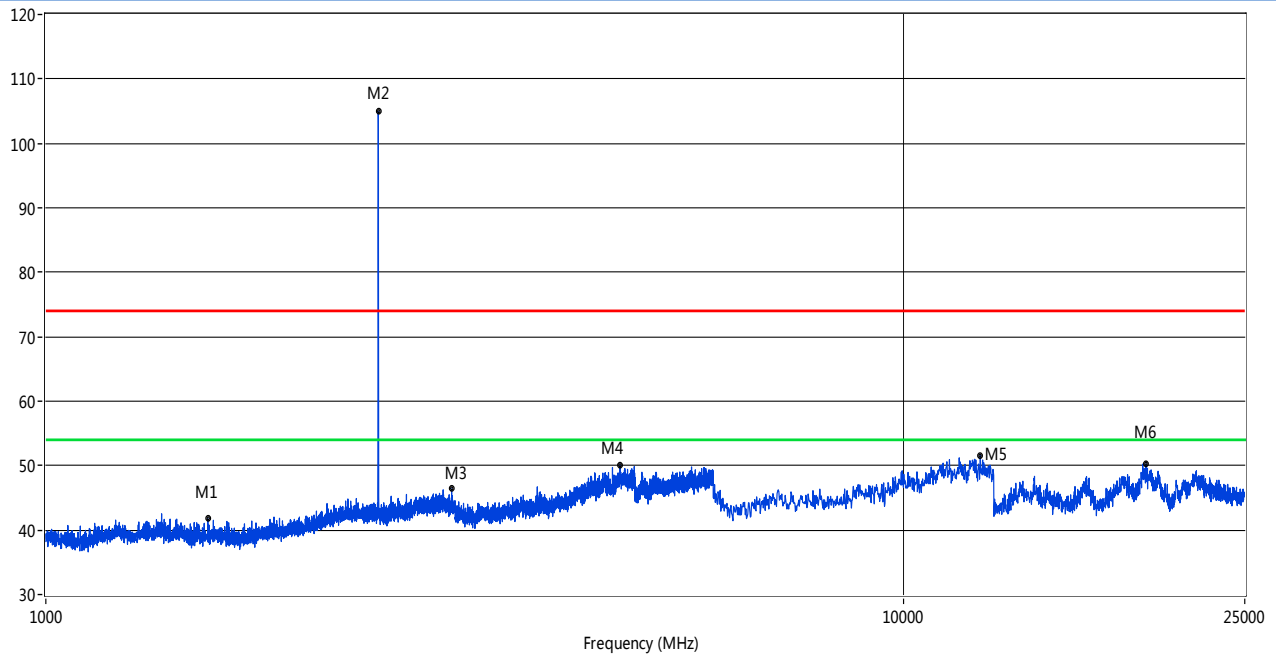
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1355.41	41.96	-4.48	74.0	32.04	Peak	99.20	100	Vertical	PASS
2	2402.15	104.12	-0.34	74.0	-30.12	Peak	329.30	100	Vertical	N/A
3	4461.39	51.52	12.42	74.0	22.48	Peak	168.40	100	Vertical	PASS
4	12042.43	51.47	20.83	74.0	22.53	Peak	0.30	100	Vertical	PASS
5	17856.07	48.88	12.37	74.0	25.12	Peak	234.90	100	Vertical	PASS
6	21915.14	49.80	12.55	74.0	24.20	Peak	338.90	100	Vertical	PASS

8-DPSK LOW CHANNEL 1 GHz to 25 GHz, ANT H



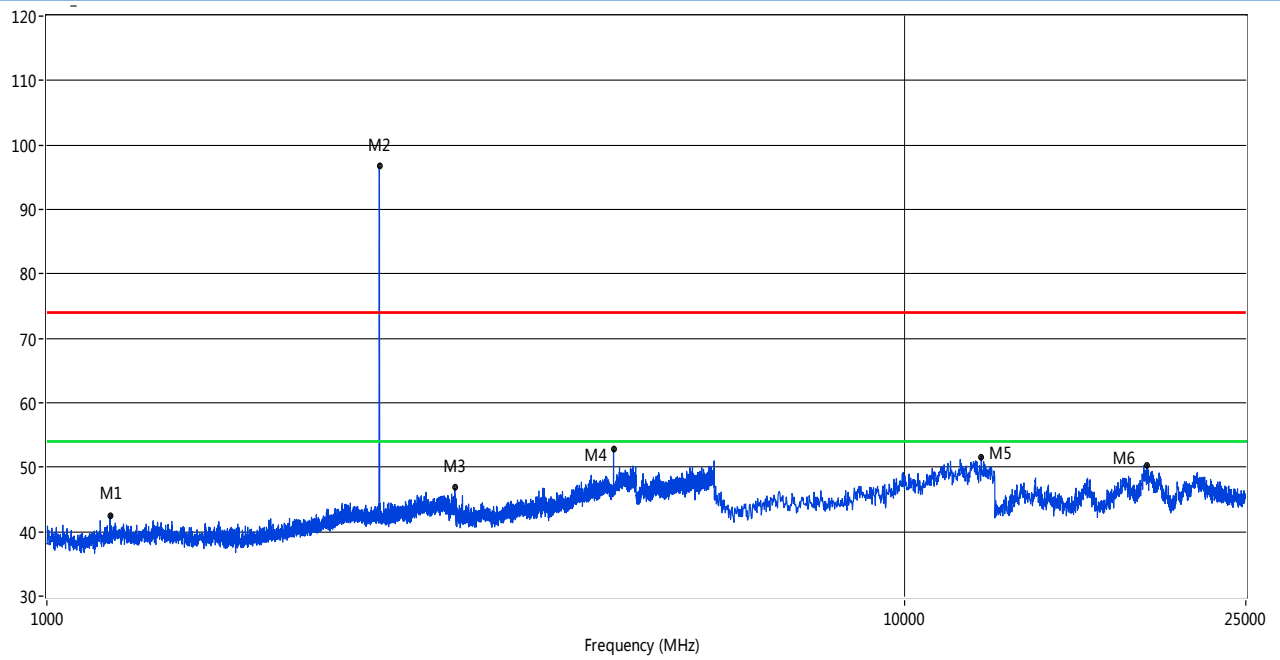
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1337.42	42.15	-4.71	74.0	31.85	Peak	186.20	100	Horizontal	PASS
2	2402.15	95.28	-0.34	74.0	-21.28	Peak	345.00	100	Horizontal	N/A
3	4461.39	55.17	12.42	74.0	18.83	Peak	126.50	100	Horizontal	PASS
3**	4461.39	36.40	12.42	54.0	17.60	Average	126.50	100	Horizontal	PASS
4	7123.13	47.38	14.28	74.0	26.62	Peak	264.60	100	Horizontal	PASS
5	12289.52	51.32	20.65	74.0	22.68	Peak	281.00	100	Horizontal	PASS
6	21915.14	49.80	12.55	74.0	24.20	Peak	338.90	100	Horizontal	PASS

8-DPSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT V



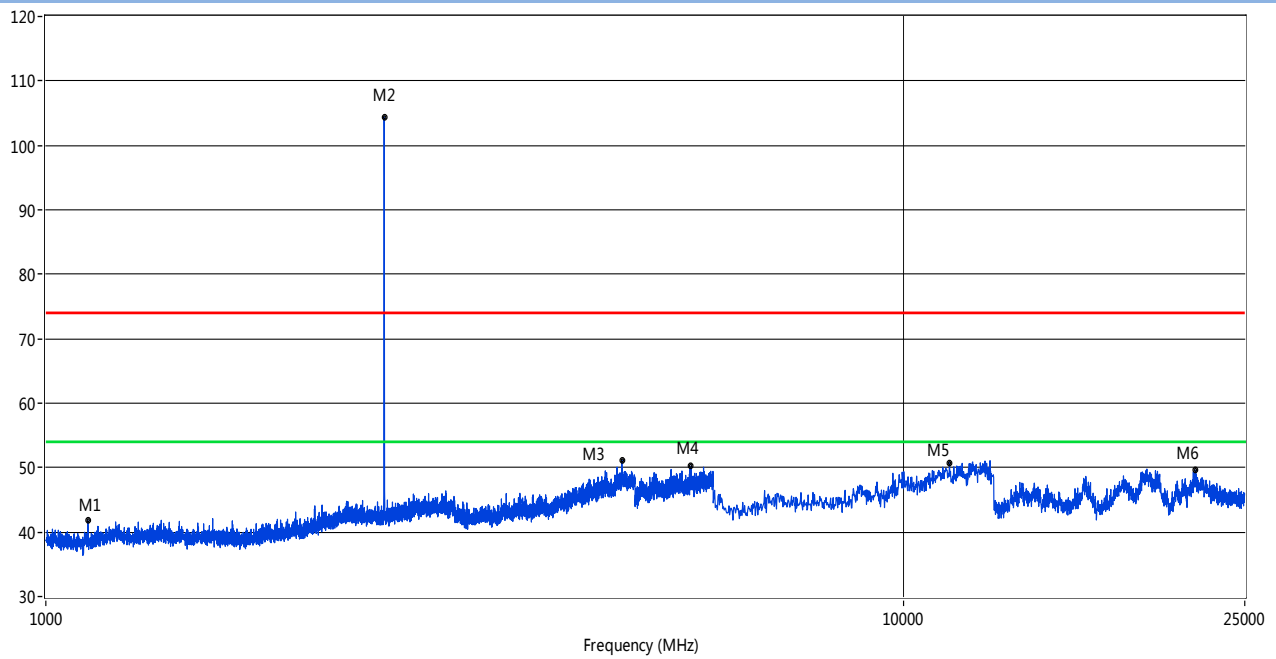
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1544.86	41.76	-4.23	74.0	32.24	Peak	220.70	100	Vertical	PASS
2	2441.14	104.93	-0.38	74.0	-30.93	Peak	316.30	100	Vertical	N/A
3	2972.51	46.39	2.37	74.0	27.61	Peak	86.00	100	Vertical	PASS
4	4672.08	50.05	13.15	74.0	23.95	Peak	113.90	100	Vertical	PASS
5	12289.52	51.65	20.65	74.0	22.35	Peak	281.00	100	Vertical	PASS
6	19179.70	50.28	14.04	74.0	23.72	Peak	66.70	100	Vertical	PASS

8-DPSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT H



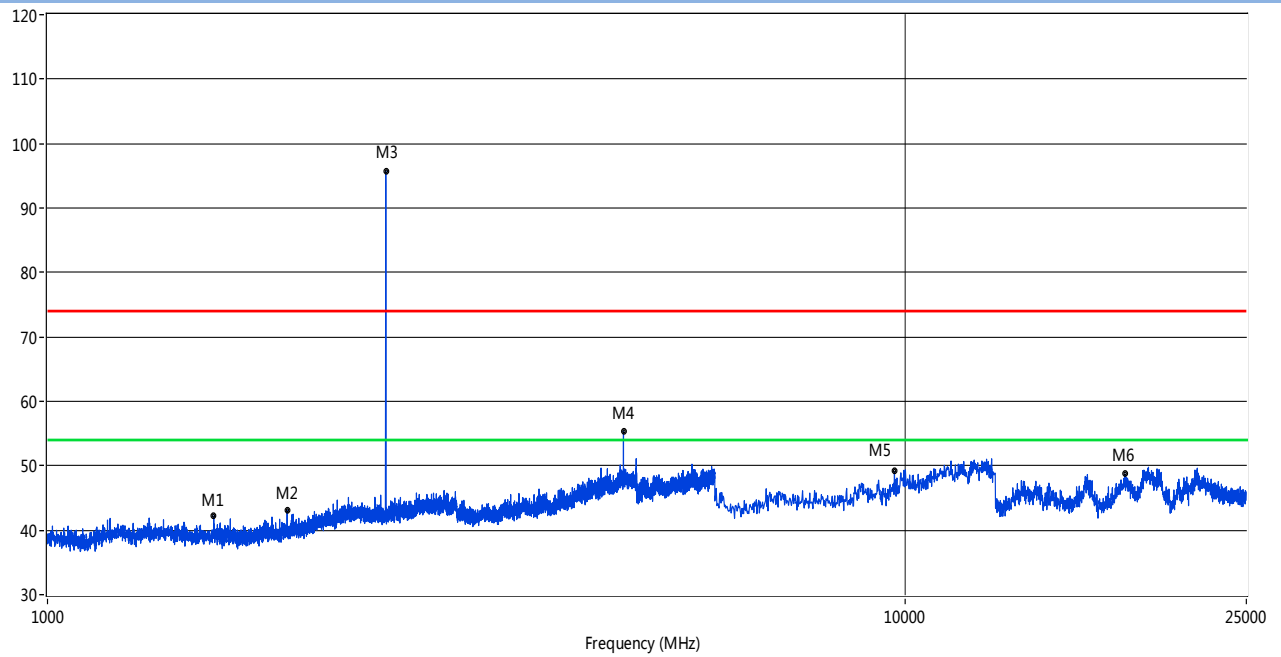
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1184.45	42.50	-5.48	74.0	31.50	Peak	329.30	100	Horizontal	PASS
2	2441.14	96.74	-0.38	74.0	-22.74	Peak	281.70	100	Horizontal	N/A
3	2989.50	46.81	2.47	74.0	27.19	Peak	91.20	100	Horizontal	PASS
4	4578.35	52.83	12.86	74.0	21.17	Peak	123.20	100	Horizontal	PASS
5	12289.52	51.65	20.65	74.0	22.35	Peak	281.00	100	Horizontal	PASS
6	19179.70	50.28	14.04	74.0	23.72	Peak	66.70	100	Horizontal	PASS

8-DPSK HIGH CHANNEL 1 GHz to 25 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1119.47	41.79	-6.20	74.0	32.21	Peak	201.20	100	Vertical	PASS
2	2480.13	104.43	-0.60	74.0	-30.43	Peak	315.40	100	Vertical	N/A
3	4695.33	51.20	13.21	74.0	22.80	Peak	63.80	100	Vertical	PASS
4	5655.09	50.26	15.59	74.0	23.74	Peak	158.20	100	Vertical	PASS
5	11312.40	50.75	20.18	74.0	23.25	Peak	73.30	100	Vertical	PASS
6	21915.14	49.62	12.55	74.0	24.38	Peak	338.90	100	Vertical	PASS

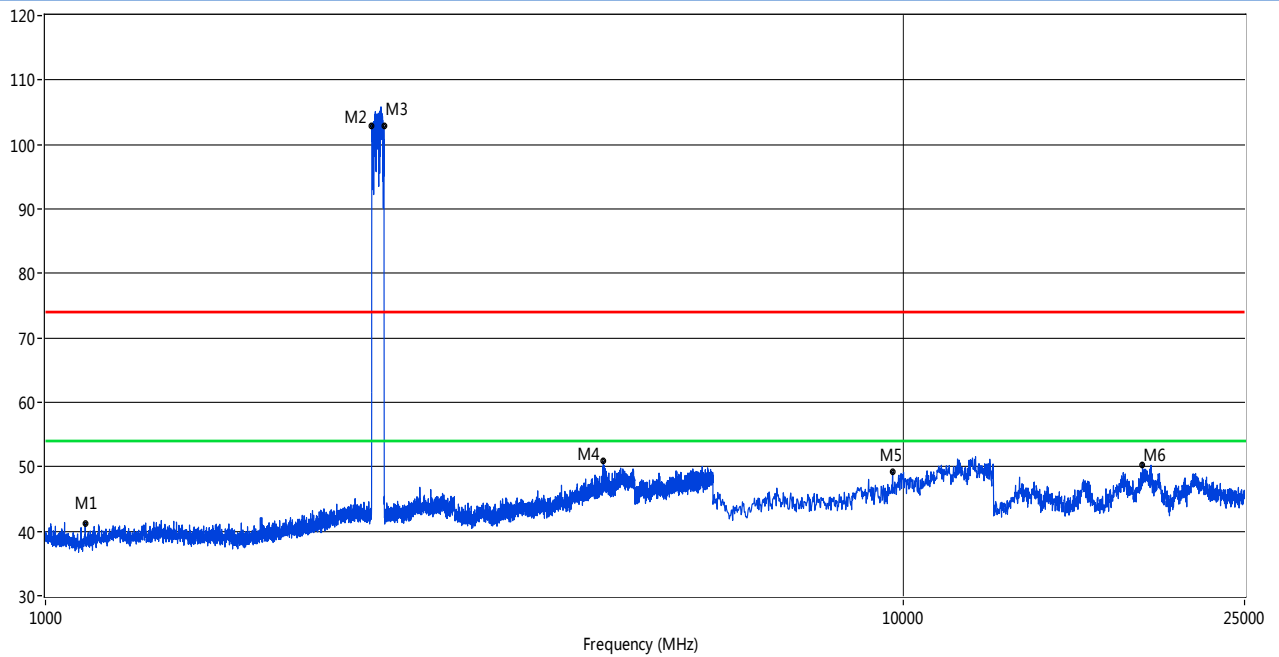
8-DPSK HIGH CHANNEL 1 GHz to 25 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1562.36	42.21	-3.95	74.0	31.79	Peak	130.50	100	Horizontal	PASS
2	1902.77	43.09	-2.86	74.0	30.91	Peak	186.30	100	Horizontal	PASS
3	2480.13	95.80	-0.60	74.0	-21.80	Peak	282.00	100	Horizontal	N/A
4	4695.33	55.37	13.21	74.0	18.63	Peak	157.00	100	Horizontal	PASS
4**	4695.33	36.60	13.21	54.0	17.40	Average	157.00	100	Horizontal	PASS
5	9717.55	49.13	17.74	74.0	24.87	Peak	1.50	100	Horizontal	PASS
6	18053.66	48.71	13.16	74.0	25.29	Peak	224.20	100	Horizontal	PASS

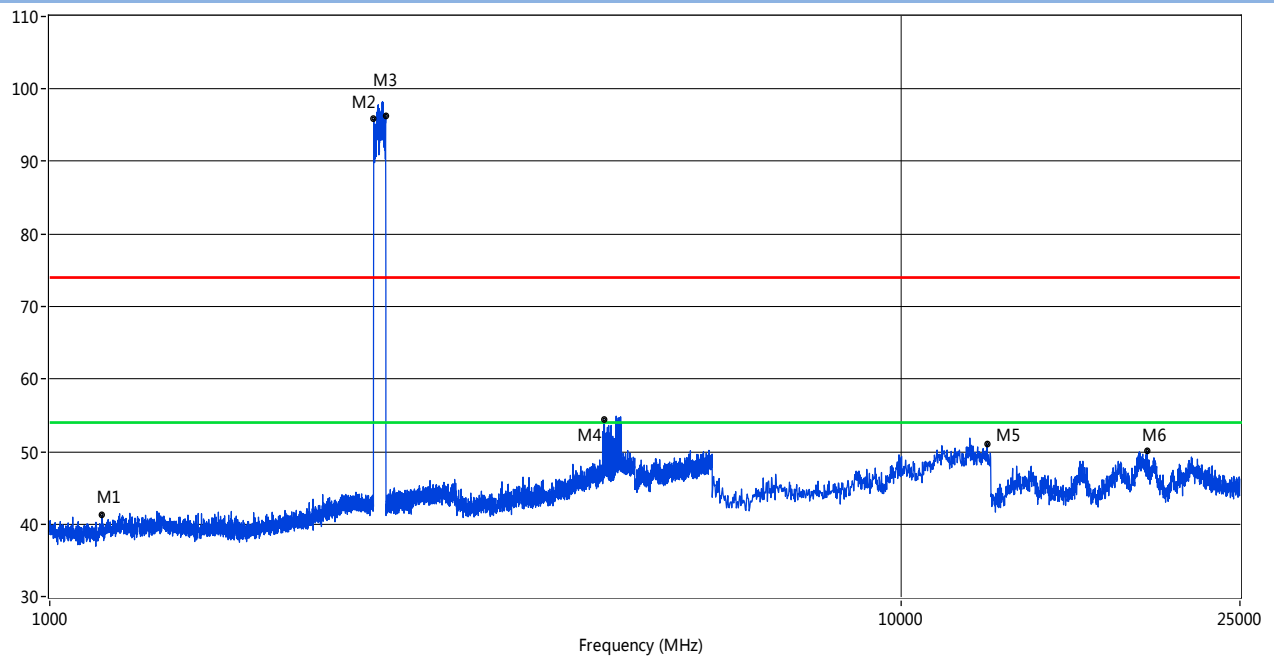
Hopping Mode:

GFSK MODE 1 GHz to 25 GHz, ANT V



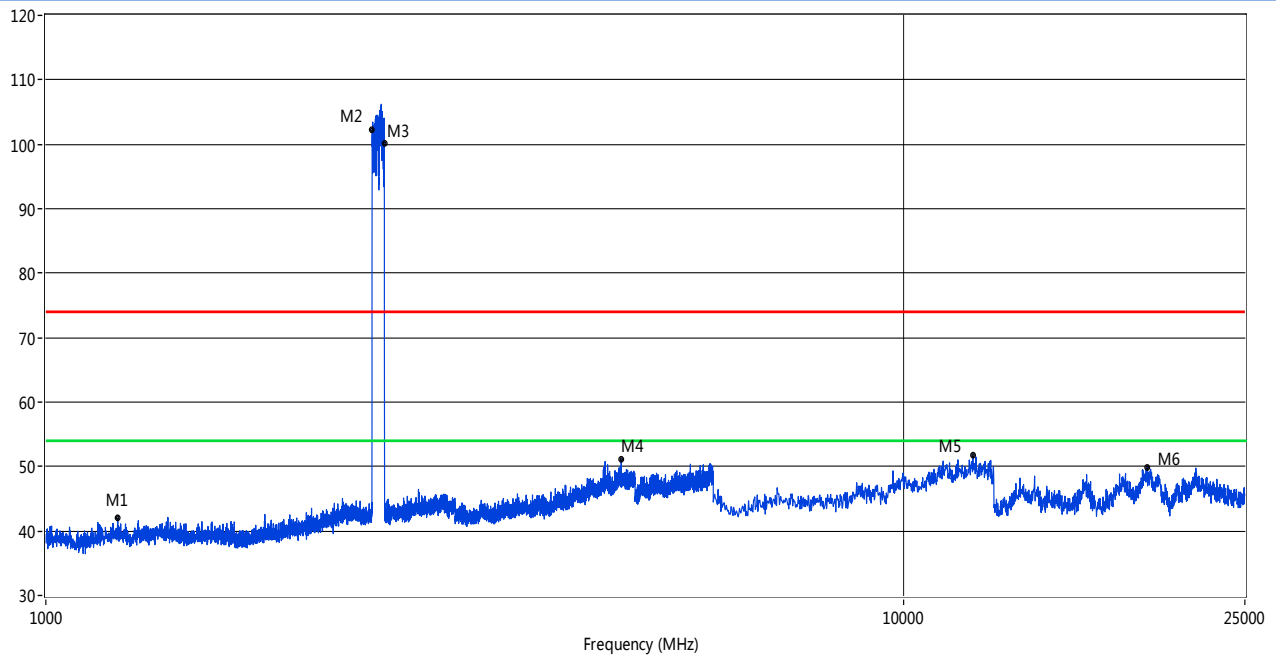
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1112.47	41.26	-6.26	74.0	32.74	Peak		100	Vertical	PASS
2	2401.65	102.81	-0.27	74.0	-28.81	Peak	328.60	100	Vertical	N/A
3	2480.13	102.85	-0.60	74.0	-28.85	Peak	328.60	100	Vertical	N/A
4	4470.38	50.84	12.52	74.0	23.16	Peak	359.40	100	Vertical	PASS
5	9717.55	49.19	17.74	74.0	24.81	Peak	1.50	100	Vertical	PASS
6	19009.98	50.30	13.42	74.0	23.70	Peak	189.80	100	Vertical	PASS

GFSK MODE 1 GHz to 25 GHz, ANT H



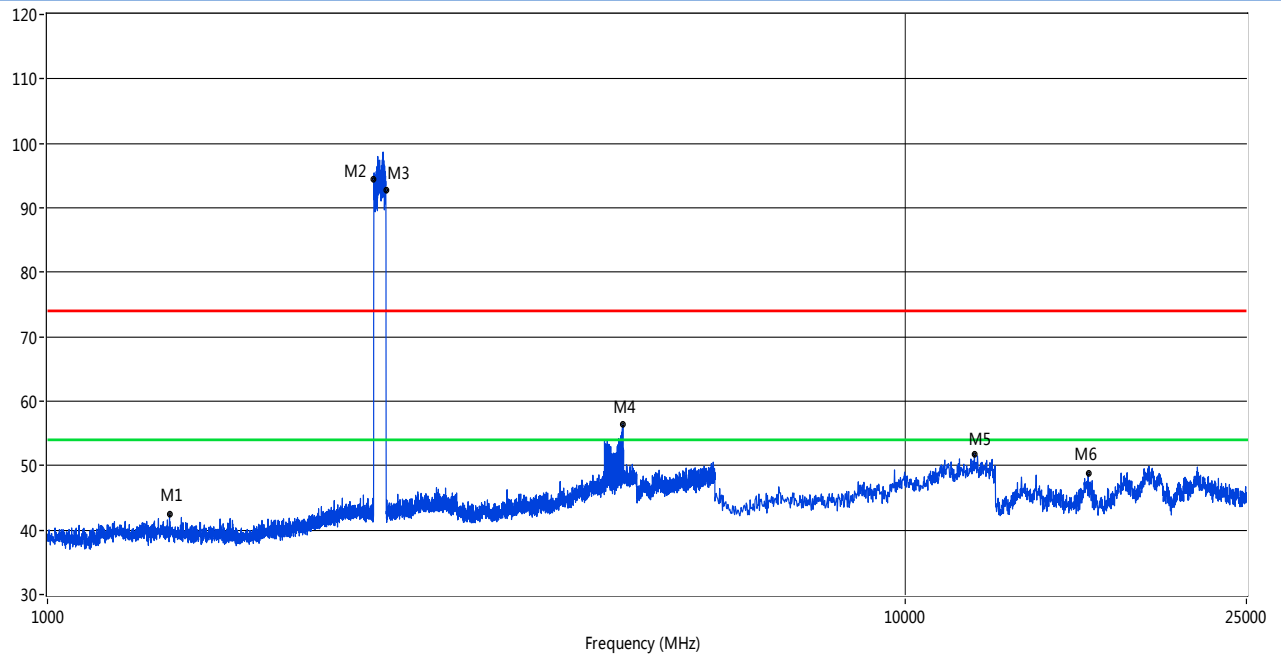
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1152.46	41.24	-5.88	74.0	32.76	Peak	295.60	100	Horizontal	PASS
2	2402.15	95.85	-0.34	74.0	-21.85	Peak	279.70	100	Horizontal	N/A
3	2479.13	96.35	-0.58	74.0	-22.35	Peak	285.10	100	Horizontal	N/A
4	4476.38	54.36	12.60	74.0	19.64	Peak	126.20	100	Horizontal	PASS
4**	4476.38	35.59	12.60	54.0	18.41	Average	126.20	100	Horizontal	PASS
5	12615.23	51.04	19.71	74.0	22.96	Peak	358.40	100	Horizontal	PASS
6	19449.25	50.06	12.80	74.0	23.94	Peak	286.40	100	Horizontal	PASS

Π/4-DQPSK MODE 1 GHz to 25 GHz, ANT V



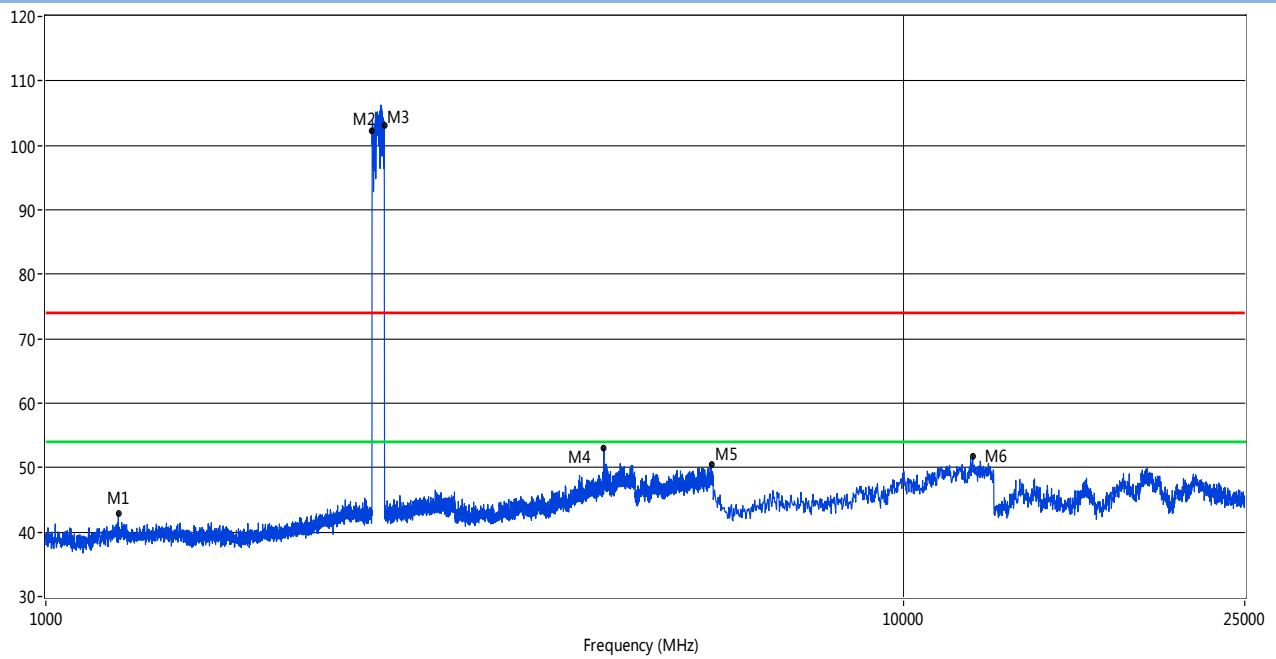
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1212.95	42.00	-5.08	74.0	32.00	Peak	353.80	100	Vertical	PASS
2	2402.15	102.35	-0.34	74.0	-28.35	Peak	332.10	100	Vertical	N/A
3	2480.13	100.17	-0.60	74.0	-26.17	Peak	292.80	100	Vertical	N/A
4	4686.33	51.12	13.20	74.0	22.88	Peak	57.60	100	Vertical	PASS
5	12042.43	51.81	20.83	74.0	22.19	Peak	0.30	100	Vertical	PASS
6	19219.63	49.84	14.00	74.0	24.16	Peak	360.00	100	Vertical	PASS

Π/4-DQPSK MODE 1 GHz to 25 GHz, ANT H



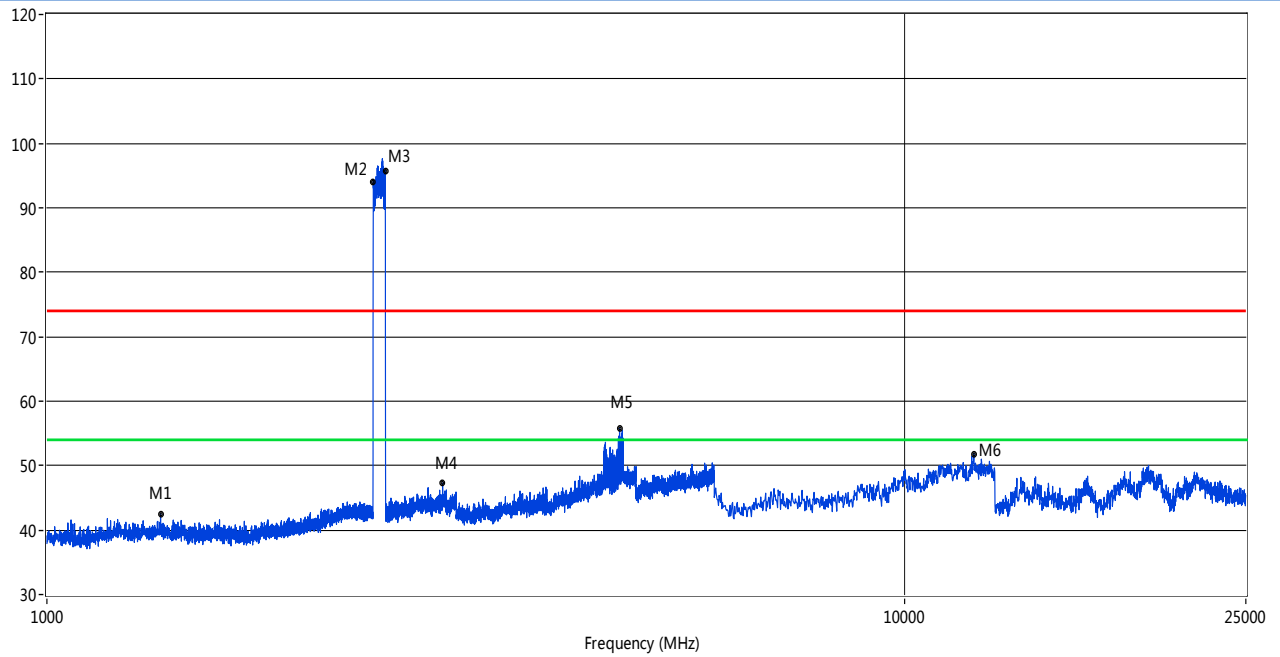
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1387.40	42.48	-4.54	74.0	31.52	Peak	127.00	100	Horizontal	PASS
2	2402.65	94.40	-0.26	74.0	-20.40	Peak	279.60	100	Horizontal	N/A
3	2480.13	92.78	-0.60	74.0	-18.78	Peak	290.20	100	Horizontal	N/A
4	4686.33	56.36	13.20	74.0	17.64	Peak	155.90	100	Horizontal	PASS
4**	4686.33	37.59	13.20	54.0	16.41	Average	155.90	100	Horizontal	PASS
5	12042.43	51.81	20.83	74.0	22.19	Peak	0.30	100	Horizontal	PASS
6	16348.17	48.74	11.76	74.0	25.26	Peak	360.70	100	Horizontal	PASS

8-DPSK MODE 1 GHz to 25 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1214.95	42.83	-5.06	74.0	31.17	Peak	312.30	100	Vertical	PASS
2	2401.65	102.16	-0.27	74.0	-28.16	Peak	328.10	100	Vertical	N/A
3	2480.13	103.08	-0.60	74.0	-29.08	Peak	328.10	100	Vertical	N/A
4	4473.38	53.05	12.55	74.0	20.95	Peak	329.30	100	Vertical	PASS
5	5969.26	50.42	15.56	74.0	23.58	Peak	206.90	100	Vertical	PASS
6	12042.43	51.86	20.83	74.0	22.14	Peak	0.30	100	Vertical	PASS

8-DPSK MODE 1 GHz to 25 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1356.91	42.52	-4.47	74.0	31.48	Peak	163.80	100	Horizontal	PASS
2	2402.15	94.10	-0.34	74.0	-20.10	Peak	342.70	100	Horizontal	N/A
3	2480.13	95.65	-0.60	74.0	-21.65	Peak	284.70	100	Horizontal	N/A
4	2893.53	47.31	2.33	74.0	26.69	Peak	221.80	100	Horizontal	PASS
5	4652.59	55.82	13.09	74.0	18.18	Peak	126.80	100	Horizontal	PASS
5**	4652.59	37.05	13.09	54.0	16.95	Average	126.80	100	Horizontal	PASS
6	12042.43	51.86	20.83	74.0	22.14	Peak	0.30	100	Horizontal	PASS

A.9 Band Edge

Test Data

Note 1: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

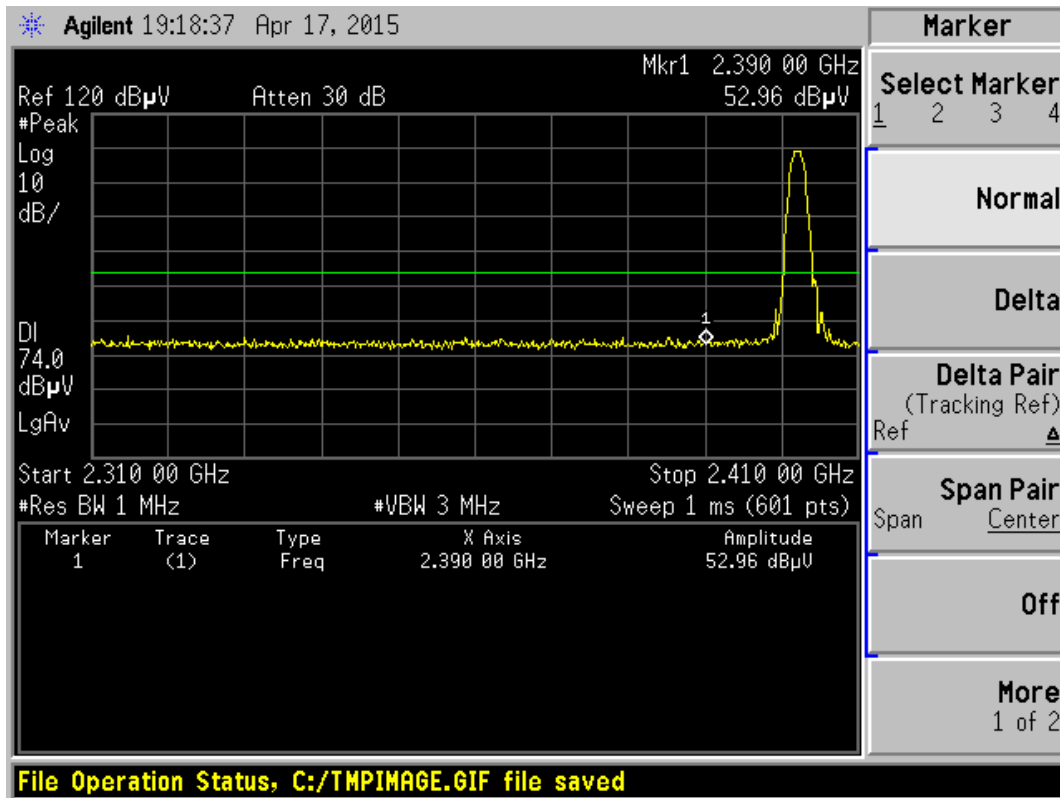
Note 3: The average levels were calculated from the peak level corrected with duty cycle correction factor (18.77 dB) derived from $20\log(\text{dwell time}/100\text{ms})$.

For example: Average level = 52.96 dBuV/m – 18.77 (dB) = 34.19 dBuV/m.

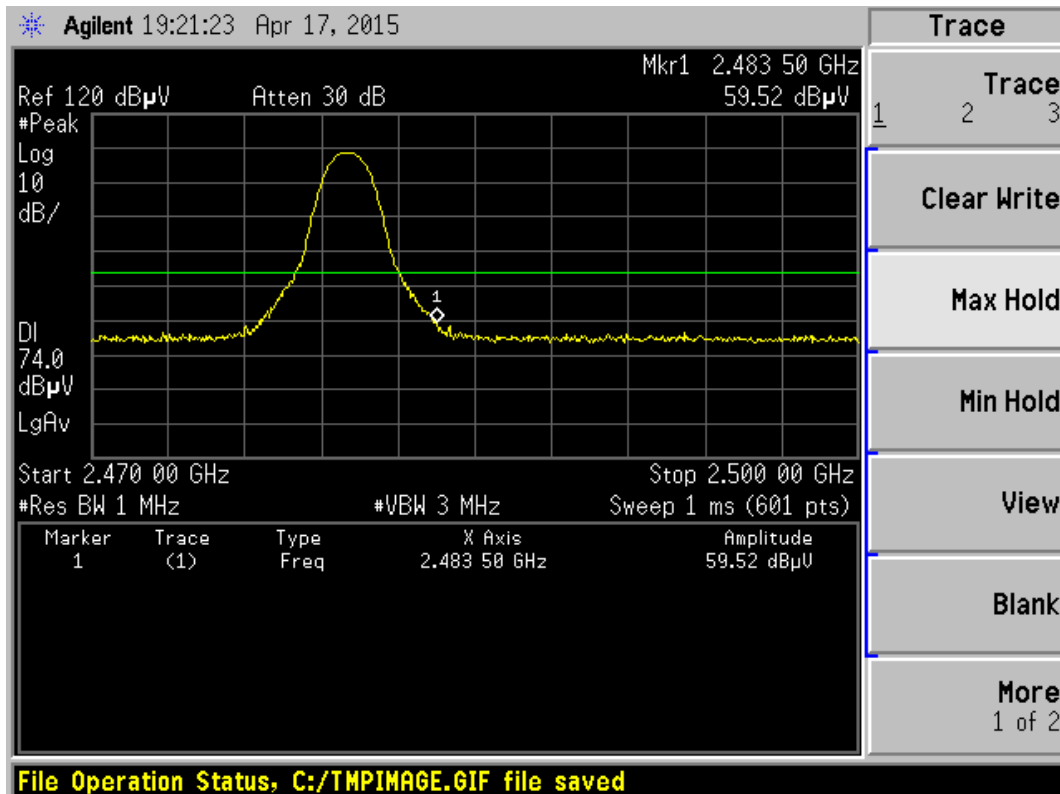
Test Mode	Test Channel	Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Remark	Verdict
GFSK	Low	2390.00	52.96	74	21.04	PEAK	Pass
		2390.00	34.19	54	19.81	AVERAGE	Pass
GFSK	HIGH	2483.50	59.52	74	14.48	PEAK	Pass
		2483.50	40.75	54	13.25	AVERAGE	Pass
Π/4DQPSK	Low	2390.00	53.50	74	20.50	PEAK	Pass
		2390.00	34.73	54	19.27	AVERAGE	Pass
Π/4DQPSK	HIGH	2483.50	58.46	74	15.54	PEAK	Pass
		2483.50	39.69	54	14.31	AVERAGE	Pass
8-DPSK	Low	2390.00	52.51	74	21.49	PEAK	Pass
		2390.00	33.74	54	20.26	AVERAGE	Pass
8-DPSK	HIGH	2483.50	57.38	74	16.62	PEAK	Pass
		2483.50	38.61	54	15.39	AVERAGE	Pass
GFSK(Hopping)	Low	2390.00	53.31	74	20.69	PEAK	Pass
		2390.00	34.54	54	19.46	AVERAGE	Pass
GFSK(Hopping)	HIGH	2483.50	54.39	74	19.61	PEAK	Pass
		2483.50	35.62	54	18.38	AVERAGE	Pass
Π/4DQPSK (Hopping)	Low	2390.00	53.04	74	20.96	PEAK	Pass
		2390.00	34.27	54	19.73	AVERAGE	Pass
Π/4DQPSK (Hopping)	HIGH	2483.50	54.63	74	19.37	PEAK	Pass
		2483.50	35.86	54	18.14	AVERAGE	Pass
8-DPSK (Hopping)	Low	2390.00	55.52	74	18.48	PEAK	Pass
		2390.00	36.75	54	17.25	AVERAGE	Pass
8-DPSK (Hopping)	HIGH	2483.50	53.89	74	20.11	PEAK	Pass
		2483.50	35.12	54	18.88	AVERAGE	Pass

Test Plots

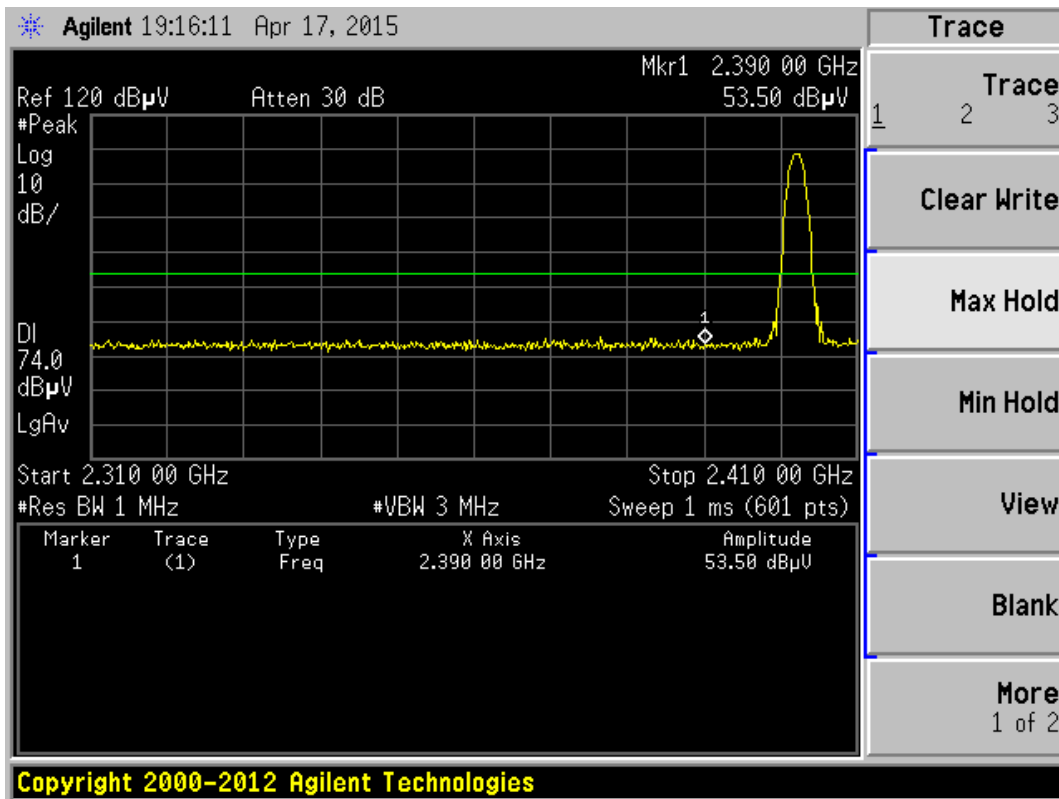
GFSK LOW CHANNEL , PEAK



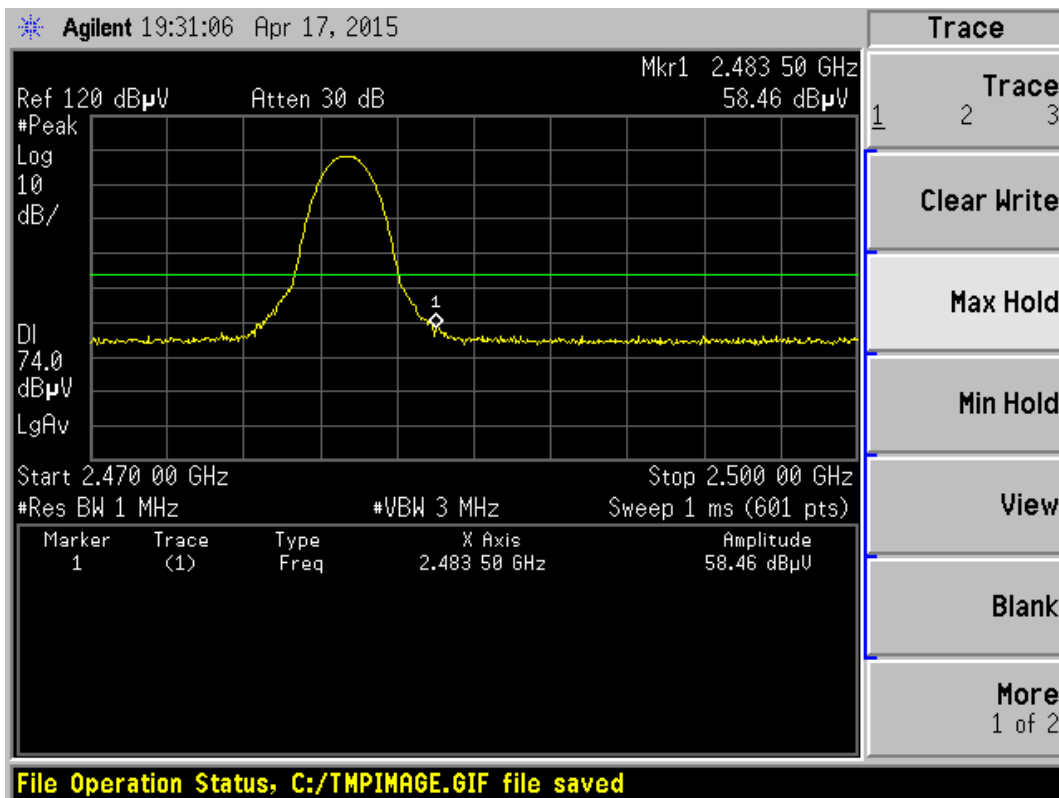
GFSK HIGH CHANNEL , PEAK



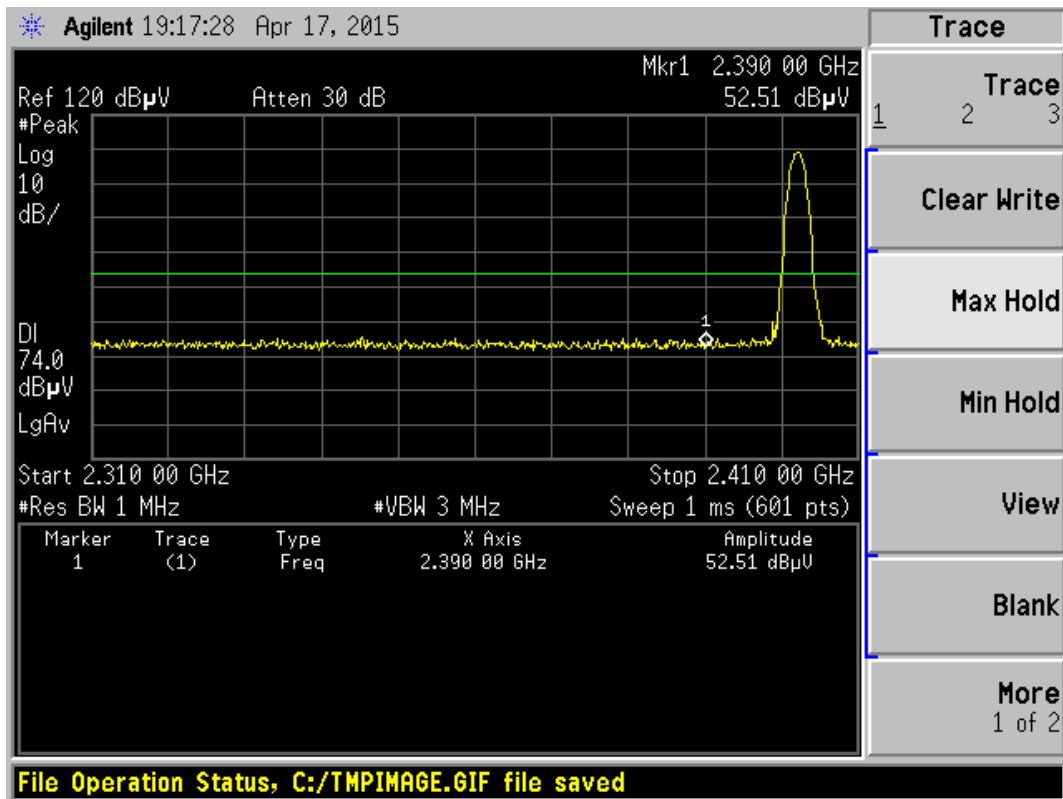
□/4-DQPSK LOW CHANNEL , PEAK



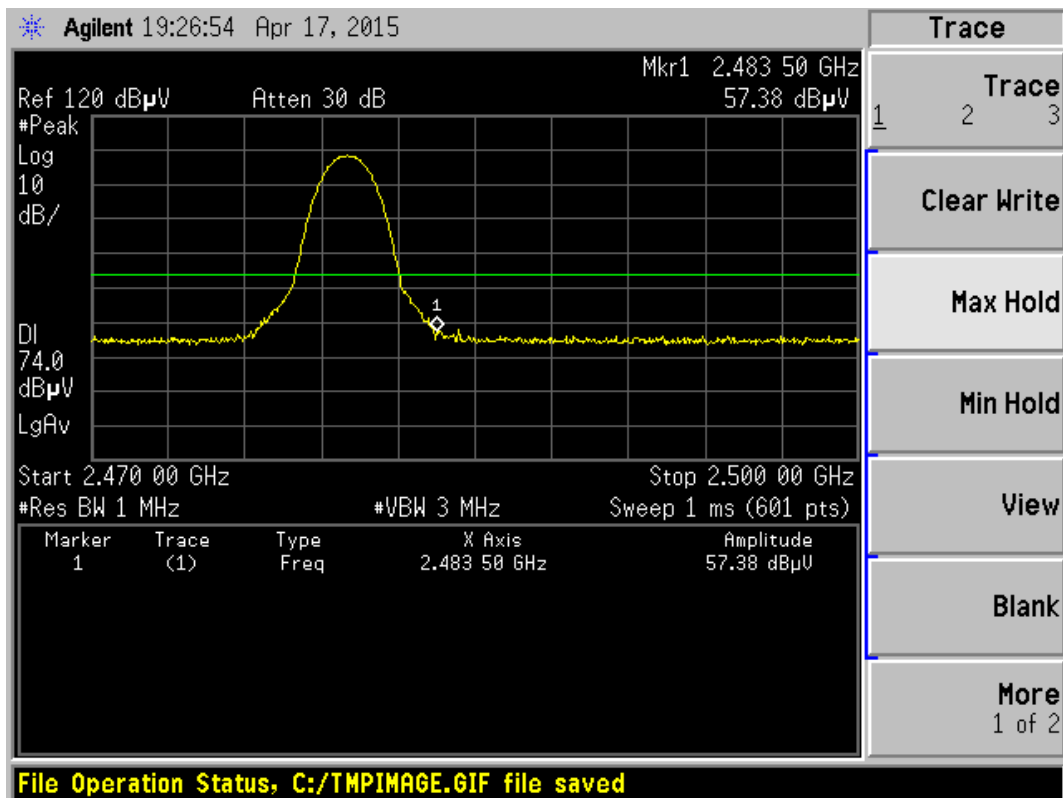
□/4-DQPSK HIGH CHANNEL , PEAK



8-DPSK LOW CHANNEL , PEAK

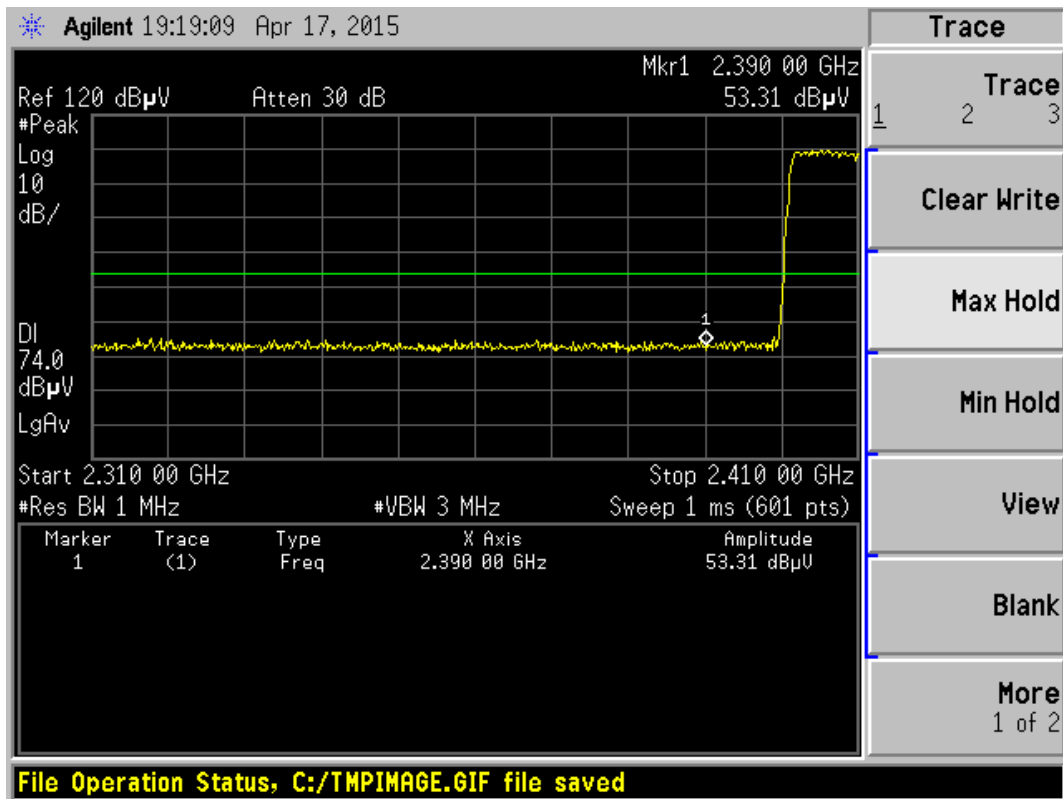


8-DPSK HIGH CHANNEL , PEAK

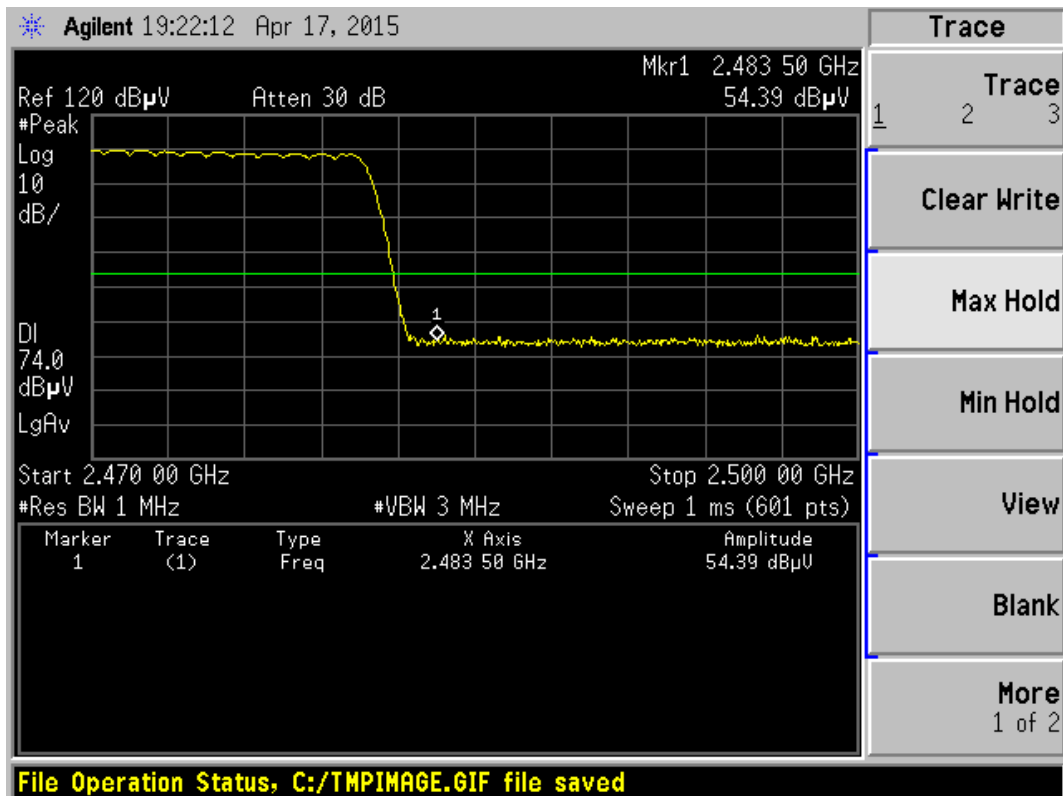


Hopping Mode:

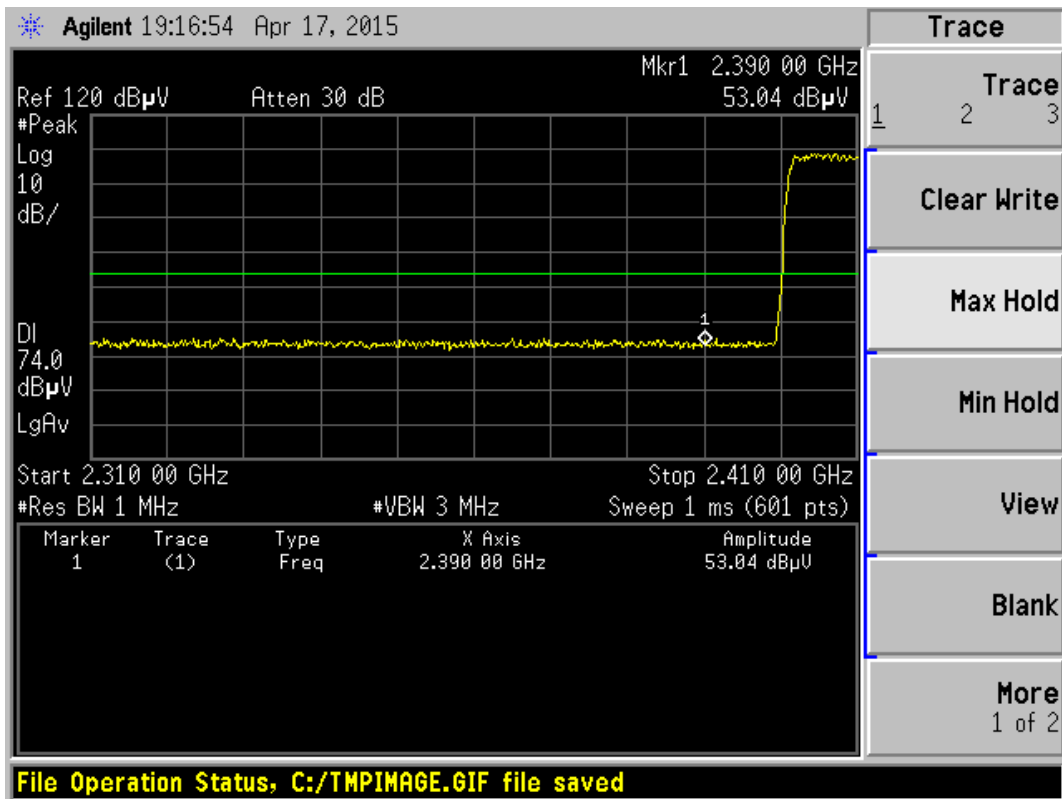
GFSK LOW FREQUENCY BAND, PEAK



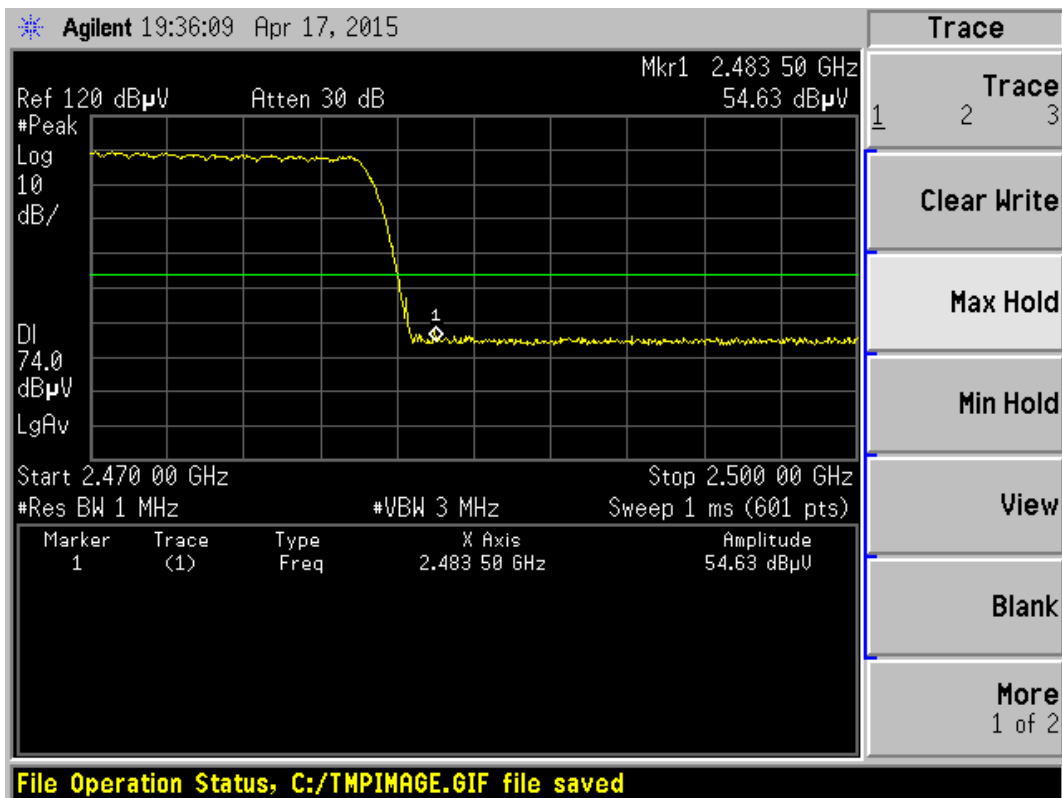
GFSK HIGH FREQUENCY BAND, PEAK



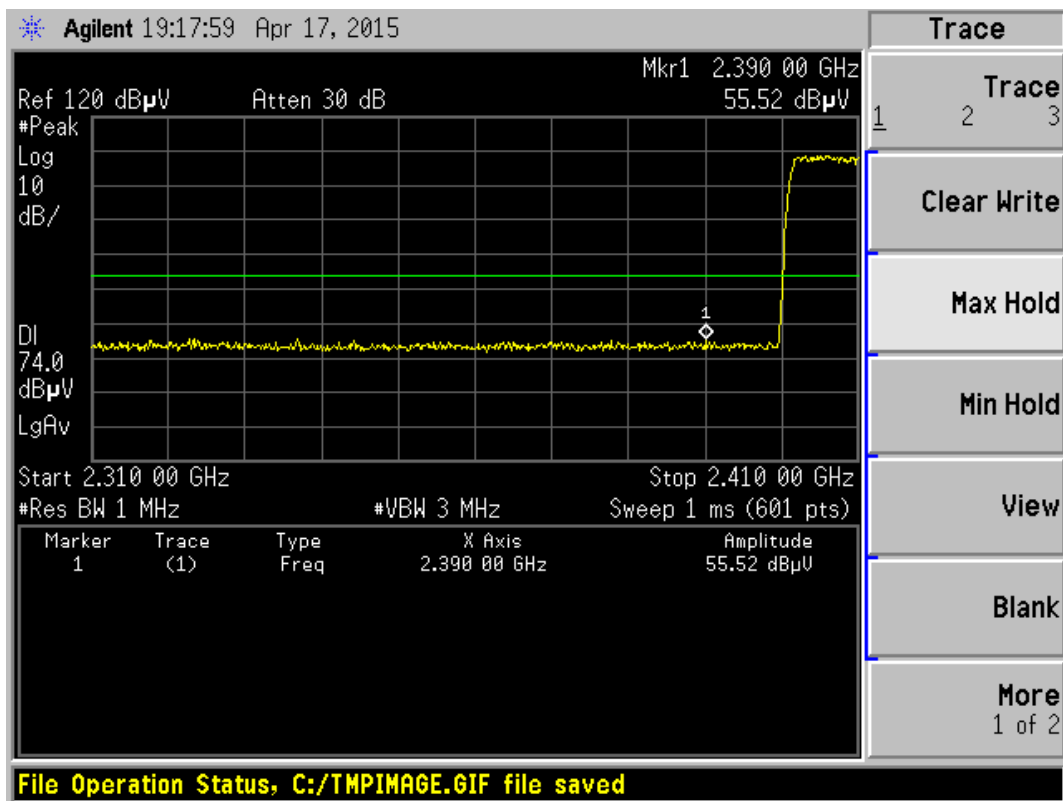
□/4-DQPSK LOW FREQUENCY BAND, PEAK



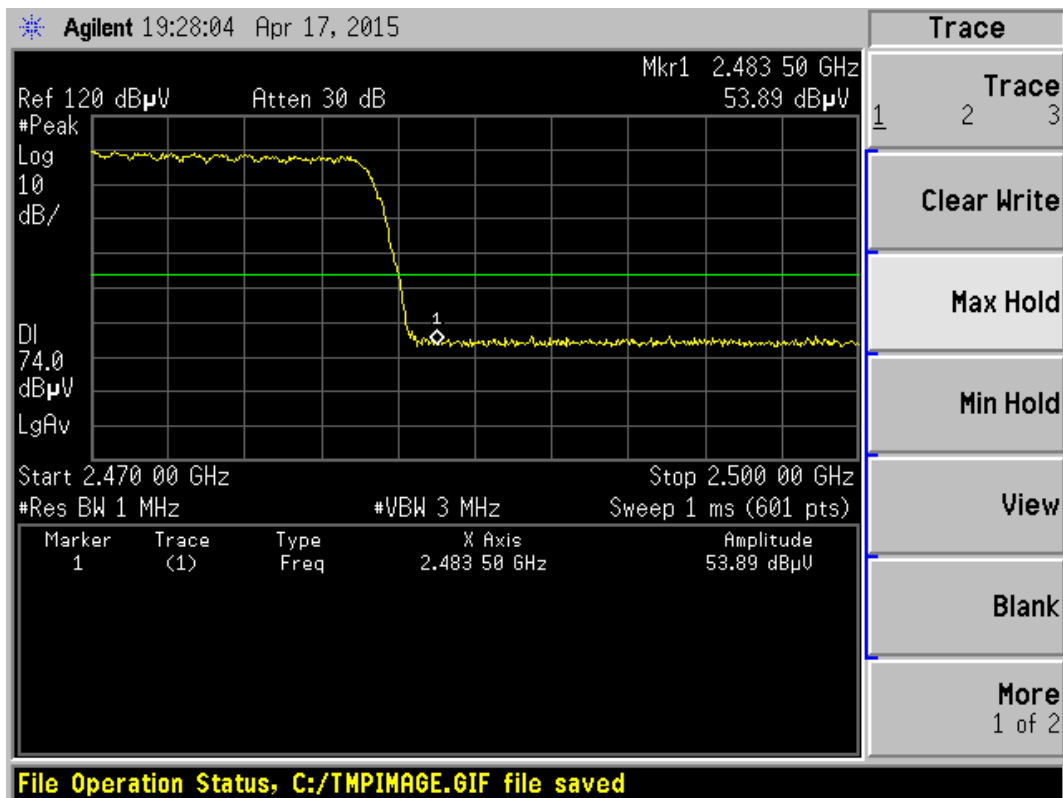
□/4-DQPSK HIGH FREQUENCY BAND, PEAK



8-DPSK LOW FREQUENCY BAND, PEAK

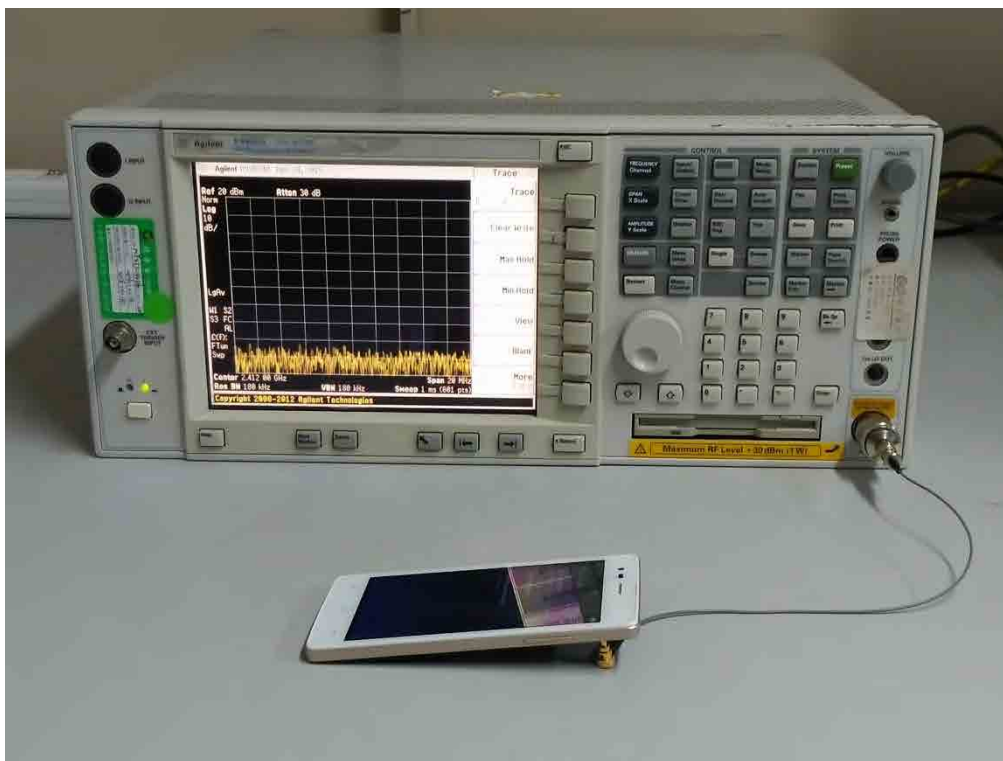


8-DPSK HIGH FREQUENCY BAND, PEAK

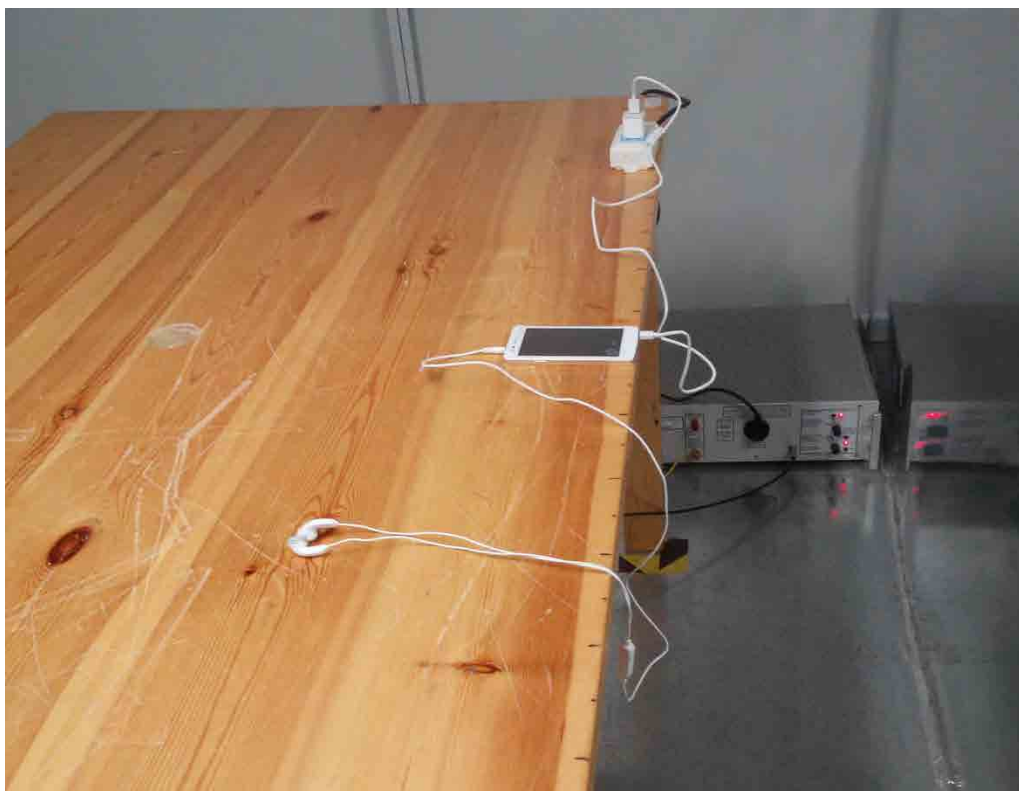


ANNEX B TEST SETUP PHOTOS

B.1 Conducted Test Photo



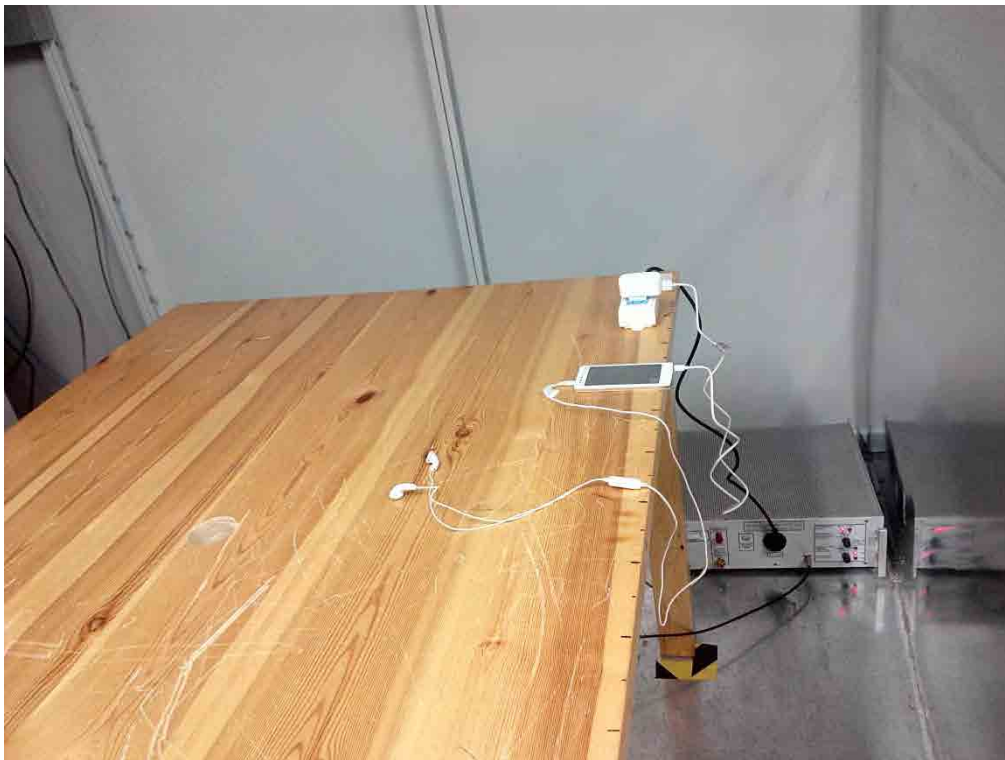
B.2 Conducted Emissions Test Photo



S01A22 Charger



AK901 Charger



S005SU0500100 Charger

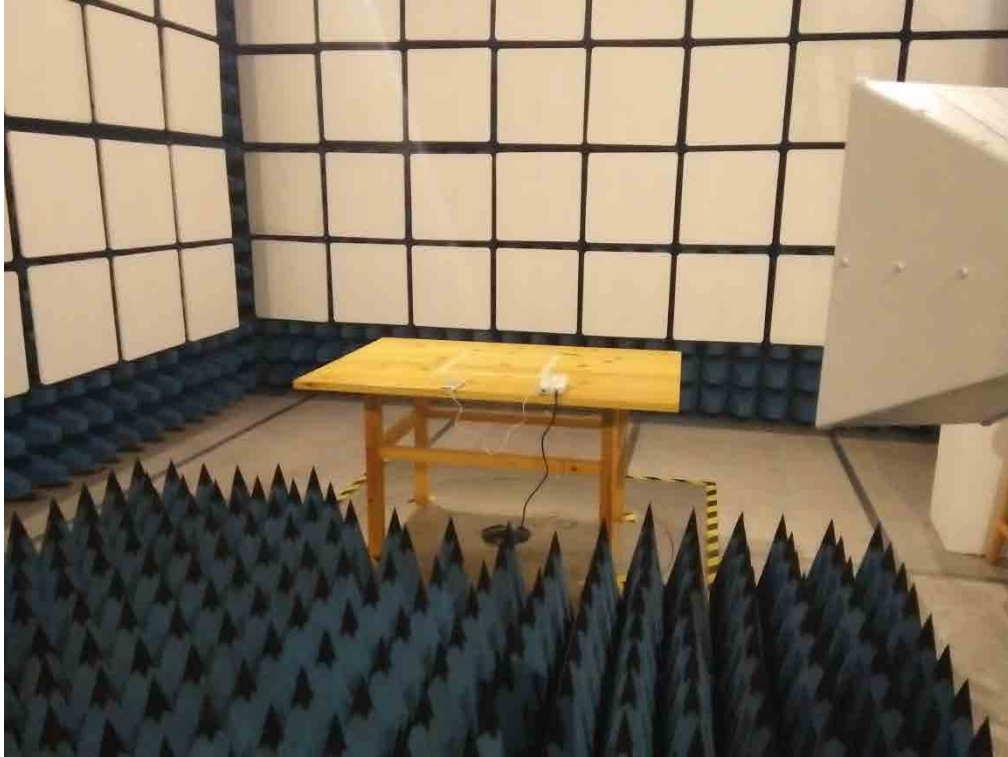
B.3 Radiated Test Photo



Below 30 MHz



30 MHz to 1 GHz



Above 1 GHz

ANNEX C EUT PHOTOS

C.1 Appearance of the EUT



THE FRONT OF EUT



THE BACK OF EUT



THE LEFT OF EUT



THE RIGHT OF EUT



THE UP OF EUT



THE DOWN OF EUT



THE PHOTO OF USB CABLE



THE PHOTO OF EARPHONE



CHARGER (AK901)



CHARGER (S005SU0500100)



CHARGER (S01A22)

C.2 Inside of the EUT



EUT UNCOVER VIEW 1



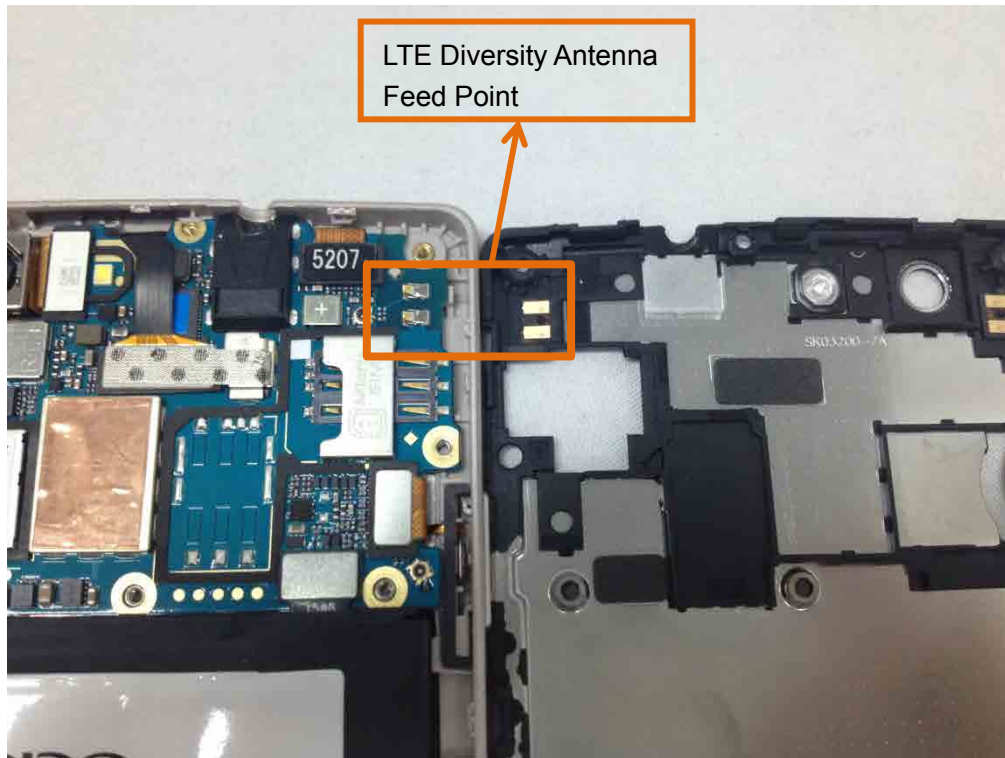
EUT UNCOVER VIEW 2



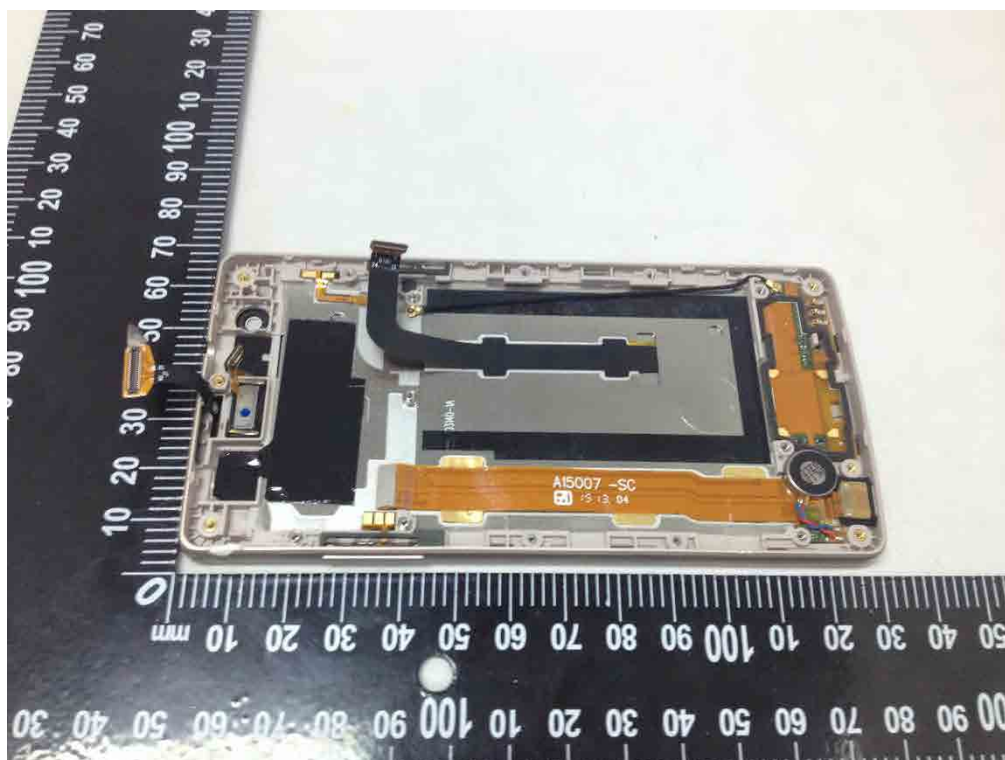
EUT UNCOVER VIEW 3



EUT UNCOVER VIEW 4



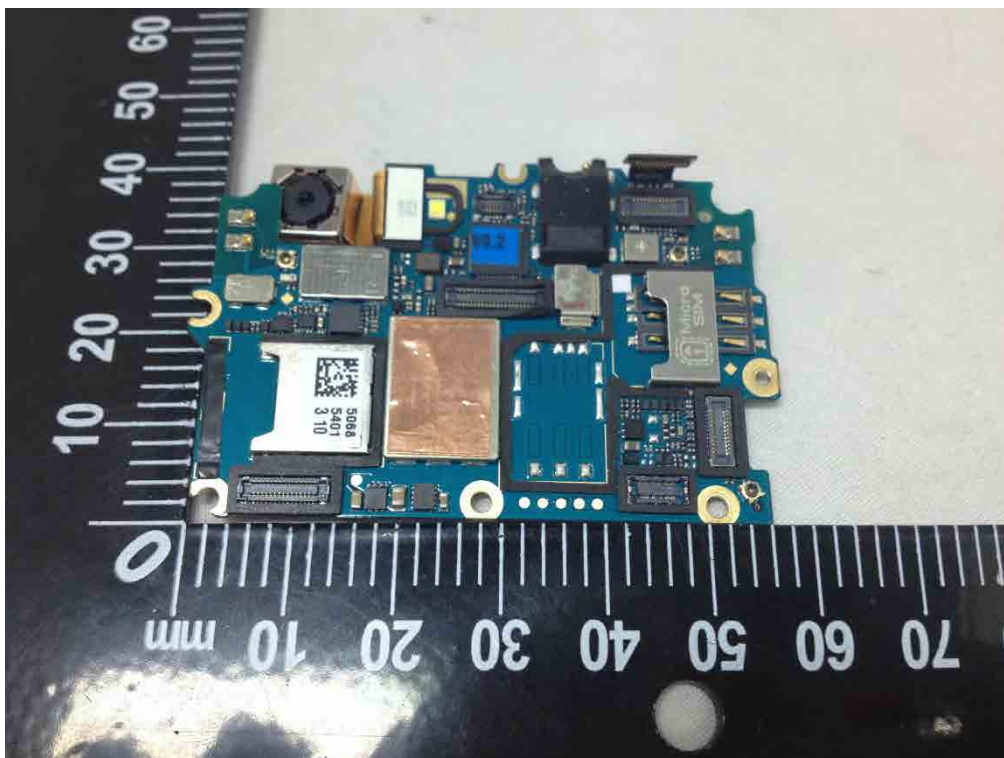
EUT UNCOVER VIEW 5



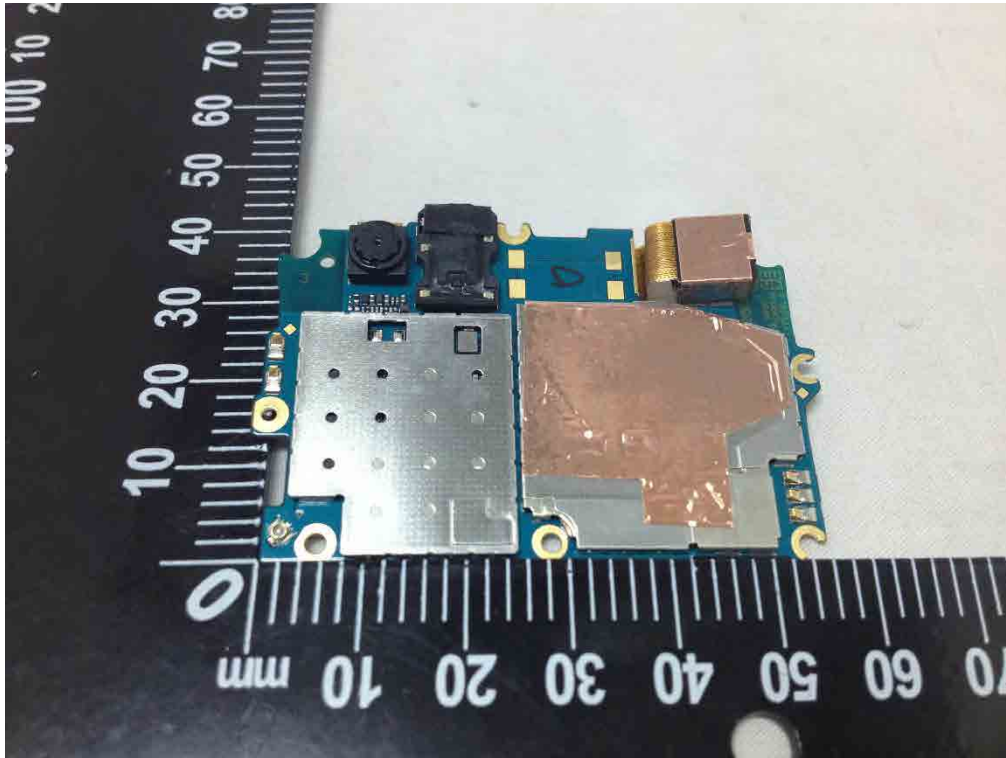
EUT UNCOVER VIEW 3



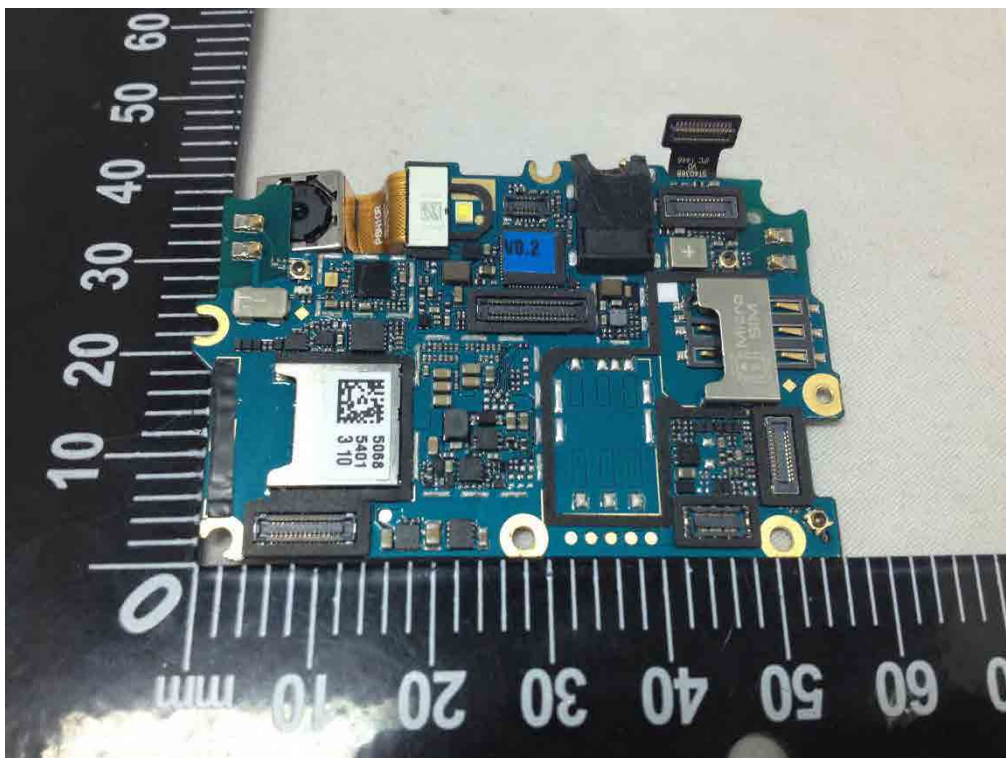
BATTERY



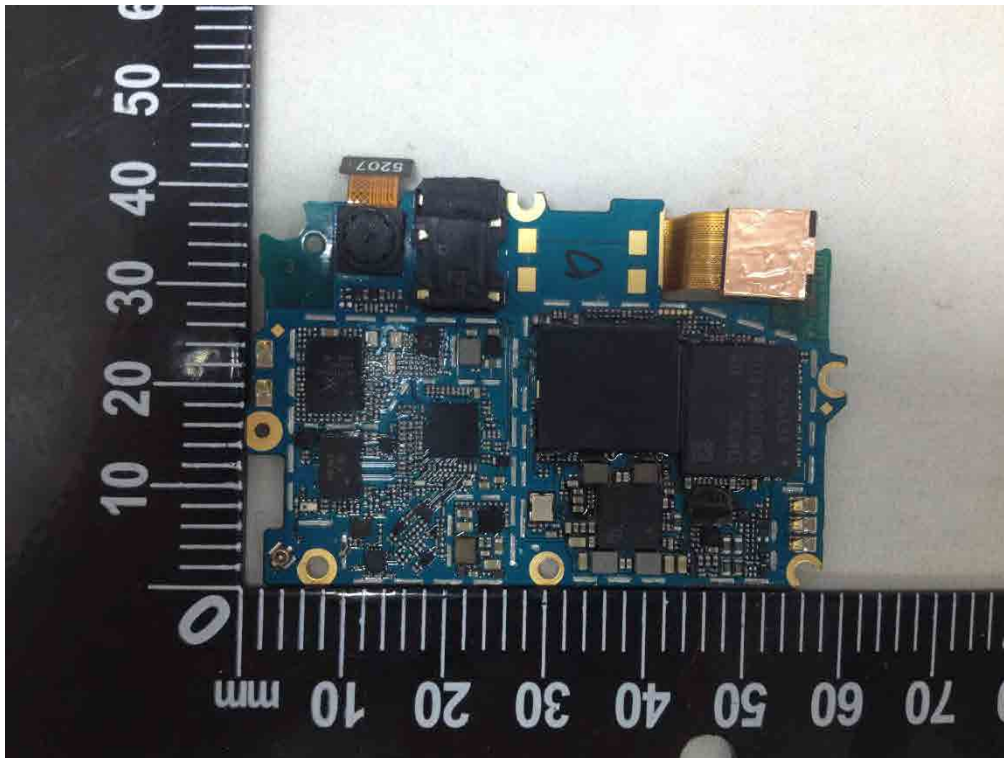
MAIN BOARD TOP VIEW 1



MAIN BOARD BACK VIEW 1



MAIN BOARD TOP VIEW 2



MAIN BOARD BACK VIEW 2

--END OF REPORT--