

### 7.3.2. Test Procedures for Conducted Spurious Emissions

1. The transmitter output was connected to the spectrum analyzer.
2. The **reference level** of the fundamental frequency was measured with the spectrum analyzer using RBW = 100 kHz, VBW = 300 kHz.
3. The conducted spurious emission was tested each ranges were set as below.

**Frequency range : 9 kHz ~ 30 MHz**

RBW = 100 kHz, VBW = 300 kHz, SWEEP TIME = AUTO, DETECTOR = PEAK, TRACE = MAX HOLD, SWEEP POINT : 40001

**Frequency range : 30 MHz ~ 10 GHz, 10 GHz ~ 25 GHz**

RBW = 1 MHz, VBW = 3 MHz, SWEEP TIME = AUTO, DETECTOR = PEAK, TRACE = MAX HOLD, SWEEP POINT : 40001

**LIMIT LINE = 20 dB below of the reference level of above measurement procedure Step 2. (RBW = 100 kHz, VBW = 300 kHz)**

If the emission level with above setting was close to the limit (ie, less than 3 dB margin) then zoom scan is required using RBW = 100 kHz, VBW = 300 kHz, SPAN = 100 MHz and BINS = 2001 to get accurate emission level within 100 kHz BW.

Also the path loss for conducted measurement setup was used as described on the Appendix I of this test report.

## 7.4. Test Results

### 7.4.1. Radiated Emissions

#### 9 kHz ~ 25 GHz Data (Modulation : GFSK)

##### ▪ Lowest Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	D.C.F (dB)	Distance Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2389.53	H	Z	PK	48.92	0.70	N/A	N/A	49.62	74.00	24.38
2389.53	H	Z	AV	48.92	0.70	-24.79	N/A	24.83	54.00	29.17
4804.20	H	Z	PK	58.10	4.77	N/A	N/A	62.87	74.00	11.13
4804.20	H	Z	AV	58.10	4.77	-24.79	N/A	38.08	54.00	15.92
7206.34	V	Z	PK	50.40	7.71	N/A	N/A	58.11	74.00	15.89
7206.34	V	Z	AV	50.40	7.71	-24.79	N/A	33.32	54.00	20.68

##### ▪ Middle Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	D.C.F (dB)	Distance Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
4881.85	H	Z	PK	58.28	5.11	N/A	N/A	63.39	74.00	10.61
4881.85	H	Z	AV	58.28	5.11	-24.79	N/A	38.60	54.00	15.40
7323.62	V	Z	PK	51.34	7.60	N/A	N/A	58.94	74.00	15.06
7323.62	V	Z	AV	51.34	7.60	-24.79	N/A	34.15	54.00	19.85

##### ▪ Highest Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	D.C.F (dB)	Distance Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2483.53	H	Z	PK	56.49	0.94	N/A	N/A	57.43	74.00	16.57
2483.53	H	Z	AV	56.49	0.94	-24.79	N/A	32.64	54.00	21.36
4959.79	H	Z	PK	57.72	5.34	N/A	N/A	63.06	74.00	10.94
4959.79	H	Z	AV	57.72	5.34	-24.79	N/A	38.27	54.00	15.73
7439.82	V	Z	PK	52.38	7.57	N/A	N/A	59.95	74.00	14.05
7439.82	V	Z	AV	52.38	7.57	-24.79	N/A	35.16	54.00	18.84

##### ▪ Note.

- The radiated emissions were investigated from 9 kHz to 25 GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Information of Distance Factor  
For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.  
- Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = \underline{-9.54 \text{ dB}}$   
When distance factor is "N/A", the distance is 3 m and distance factor is not applied.
- D.C.F Calculation. (D.C.F = Duty Cycle Correction Factor)  
- Time to cycle through all channels =  $\Delta t = T [\text{ms}] \times 20$  minimum hopping channels, where T = pulse width = **2.88 ms**  
-  $100 \text{ ms} / \Delta t [\text{ms}] = H \rightarrow$  Round up to next highest integer, to account for worst case,  $H' = 100 / (2.88 \times 20) = 1.74 \approx 2$   
- The Worst Case Dwell Time =  $T [\text{ms}] \times H' = 2.88 \text{ ms} \times 2 = 5.76 \text{ ms}$   
- D.C.F =  $20 \log(\text{The Worst Case Dwell Time} / 100 \text{ ms}) = \underline{-24.79 \text{ dB}}$
- Sample Calculation.  
Margin = Limit – Result / Result = Reading + T.F + D.C.F / T.F = AF + CL – AG  
Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain.

**9 kHz ~ 25 GHz Data (Modulation :  $\pi/4$ DQPSK)**

## ▪ Lowest Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	D.C.F (dB)	Distance Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2386.05	H	X	PK	48.76	0.69	N/A	N/A	49.45	74.00	24.55
2386.05	H	X	AV	48.76	0.69	-24.79	N/A	24.66	54.00	29.34
4803.88	H	Z	PK	54.35	4.77	N/A	N/A	59.12	74.00	14.88
4803.88	H	Z	AV	54.35	4.77	-24.79	N/A	34.33	54.00	19.67
7206.51	V	Z	PK	47.37	7.71	N/A	N/A	55.08	74.00	18.92
7206.51	V	Z	AV	47.37	7.71	-24.79	N/A	30.29	54.00	23.71

## ▪ Middle Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	D.C.F (dB)	Distance Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
4882.32	H	Z	PK	53.84	5.11	N/A	N/A	58.95	74.00	15.05
4882.32	H	Z	AV	53.84	5.11	-24.79	N/A	34.16	54.00	19.84
7322.08	V	Z	PK	47.74	7.60	N/A	N/A	55.34	74.00	18.66
7322.08	V	Z	AV	47.74	7.60	-24.79	N/A	30.55	54.00	23.45

## ▪ Highest Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	D.C.F (dB)	Distance Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2483.53	H	X	PK	64.07	0.94	N/A	N/A	65.01	74.00	8.99
2483.53	H	X	AV	64.07	0.94	-24.79	N/A	40.22	54.00	13.78
4959.62	H	Z	PK	53.55	5.34	N/A	N/A	58.89	74.00	15.11
4959.62	H	Z	AV	53.55	5.34	-24.79	N/A	34.10	54.00	19.90
7440.67	V	Z	PK	50.57	7.57	N/A	N/A	58.14	74.00	15.86
7440.67	V	Z	AV	50.57	7.57	-24.79	N/A	33.35	54.00	20.65

 ▪ **Note.**

1. The radiated emissions were investigated from 9 kHz to 25 GHz. And no other spurious and harmonic emissions were found above listed frequencies.

## 2. Information of Distance Factor

For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.

- Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = \underline{-9.54 \text{ dB}}$

When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

## 3. D.C.F Calculation. (D.C.F = Duty Cycle Correction Factor)

- Time to cycle through all channels =  $\Delta t = T [\text{ms}] \times 20$  minimum hopping channels, where T = pulse width = **2.88 ms**

-  $100 \text{ ms} / \Delta t [\text{ms}] = H \rightarrow$  Round up to next highest integer, to account for worst case,  $H' = 100 / (2.88 \times 20) = 1.74 \approx 2$

- The Worst Case Dwell Time =  $T [\text{ms}] \times H' = 2.88 \text{ ms} \times 2 = 5.76 \text{ ms}$

- D.C.F =  $20 \log(\text{The Worst Case Dwell Time} / 100 \text{ ms}) \text{ dB} = 20 \log(5.76 / 100) = \underline{-24.79 \text{ dB}}$

## 4. Sample Calculation.

Margin = Limit – Result / Result = Reading + T.F + D.C.F / T.F = AF + CL – AG

Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain.

**9 kHz ~ 25 GHz Data (Modulation : 8DPSK)**

## ▪ Lowest Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	D.C.F (dB)	Distance Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2389.25	H	X	PK	48.49	0.70	N/A	N/A	49.19	74.00	24.81
2389.25	H	X	AV	48.49	0.70	-24.79	N/A	24.40	54.00	29.60
4803.87	H	Z	PK	55.33	4.77	N/A	N/A	60.10	74.00	13.90
4803.87	H	Z	AV	55.33	4.77	-24.79	N/A	35.31	54.00	18.69
7205.41	V	Z	PK	47.54	7.71	N/A	N/A	55.25	74.00	18.75
7205.41	V	Z	AV	47.54	7.71	-24.79	N/A	30.46	54.00	23.54

## ▪ Middle Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	D.C.F (dB)	Distance Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
4881.75	H	Z	PK	57.00	5.11	N/A	N/A	62.11	74.00	11.89
4881.75	H	Z	AV	57.00	5.11	-24.79	N/A	37.32	54.00	16.68
7322.98	V	Z	PK	48.33	7.60	N/A	N/A	55.93	74.00	18.07
7322.98	V	Z	AV	48.33	7.60	-24.79	N/A	31.14	54.00	22.86

## ▪ Highest Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	D.C.F (dB)	Distance Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2483.51	H	X	PK	63.62	0.94	N/A	N/A	64.56	74.00	9.44
2483.51	H	X	AV	63.62	0.94	-24.79	N/A	39.77	54.00	14.23
4959.91	H	Z	PK	54.16	5.34	N/A	N/A	59.50	74.00	14.50
4959.91	H	Z	AV	54.16	5.34	-24.79	N/A	34.71	54.00	19.29
7439.60	V	Z	PK	49.48	7.57	N/A	N/A	57.05	74.00	16.95
7439.60	V	Z	AV	49.48	7.57	-24.79	N/A	32.26	54.00	21.74

 ▪ Note.

1. The radiated emissions were investigated from 9 kHz to 25 GHz. And no other spurious and harmonic emissions were found above listed frequencies.

## 2. Information of Distance Factor

For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.

- Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = \underline{-9.54 \text{ dB}}$

When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

## 3. D.C.F Calculation. (D.C.F = Duty Cycle Correction Factor)

- Time to cycle through all channels =  $\Delta t = T [\text{ms}] \times 20$  minimum hopping channels, where T = pulse width = **2.88 ms**

-  $100 \text{ ms} / \Delta t [\text{ms}] = H \rightarrow$  Round up to next highest integer, to account for worst case,  $H' = 100 / (2.88 \times 20) = 1.74 \approx 2$

- The Worst Case Dwell Time =  $T [\text{ms}] \times H' = 2.88 \text{ ms} \times 2 = 5.76 \text{ ms}$

- D.C.F =  $20 \log(\text{The Worst Case Dwell Time} / 100 \text{ ms}) \text{ dB} = 20 \log(5.76 / 100) = \underline{-24.79 \text{ dB}}$

## 4. Sample Calculation.

Margin = Limit – Result / Result = Reading + T.F + D.C.F / T.F = AF + CL – AG

Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain.

7.4.2. Conducted Spurious Emissions

Low Band-edge

Lowest Channel & Modulation : GFSK

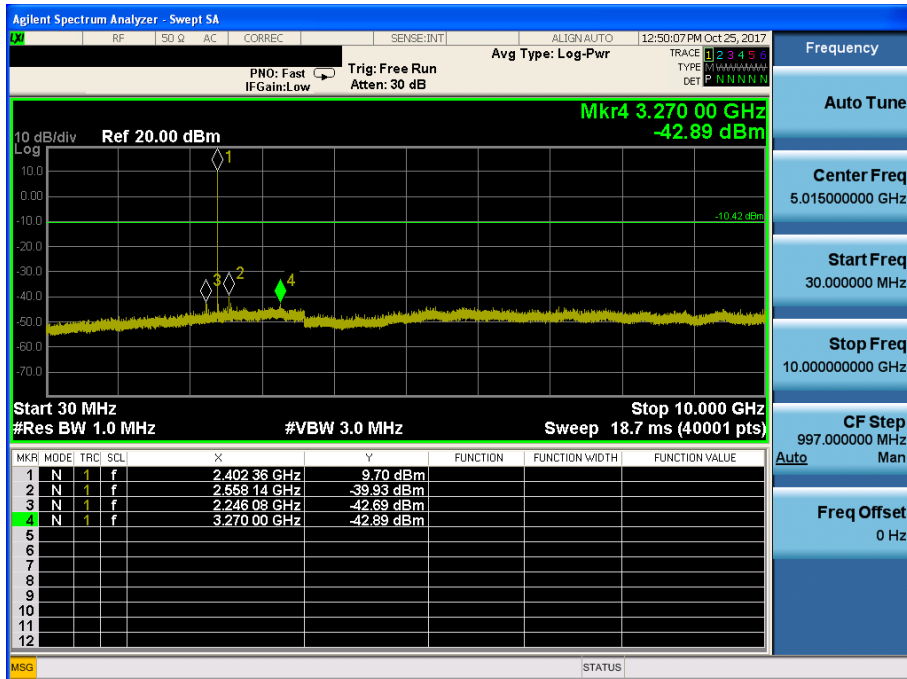
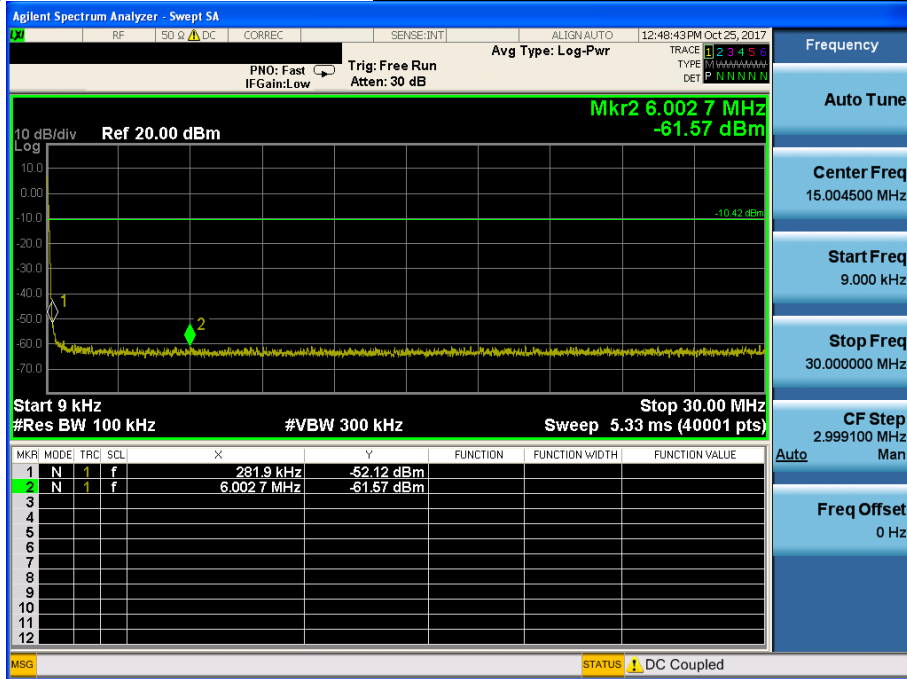


Low Band-edge

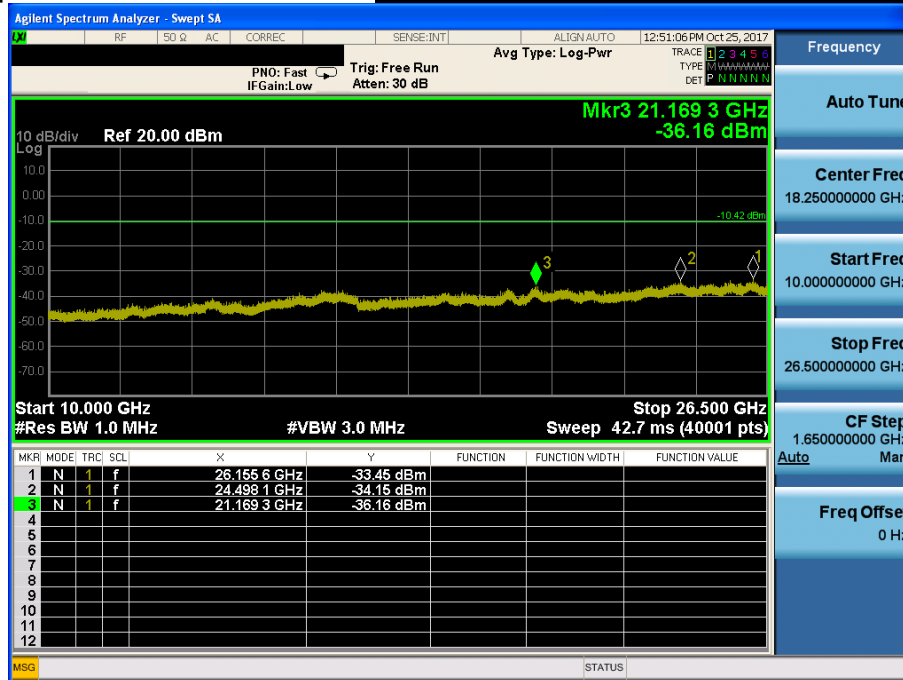
Hopping mode & Modulation : GFSK



Conducted Spurious Emissions Lowest Channel & Modulation : GFSK

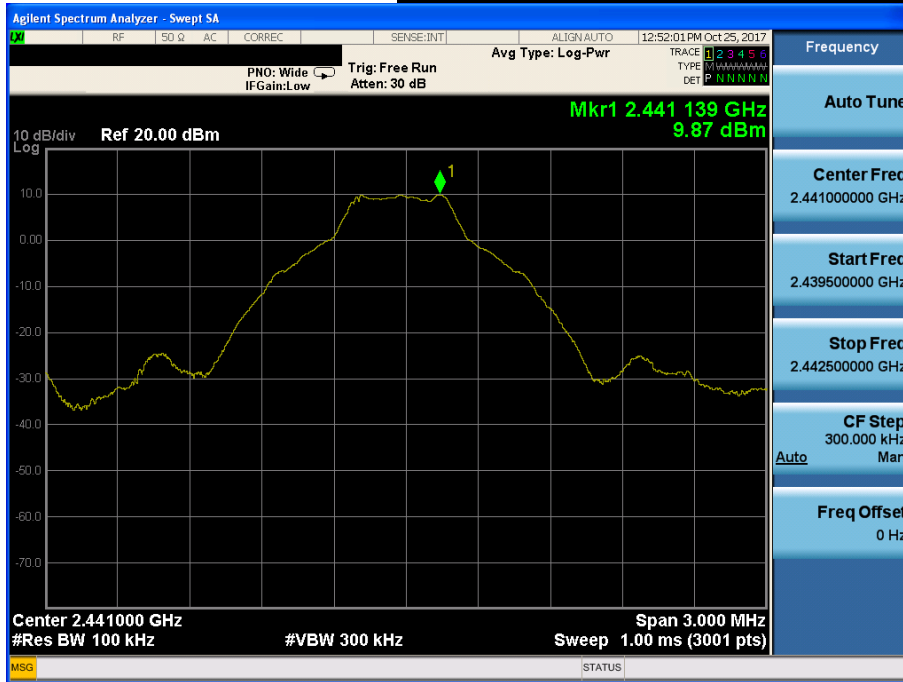


Conducted Spurious Emissions Lowest Channel & Modulation : GFSK



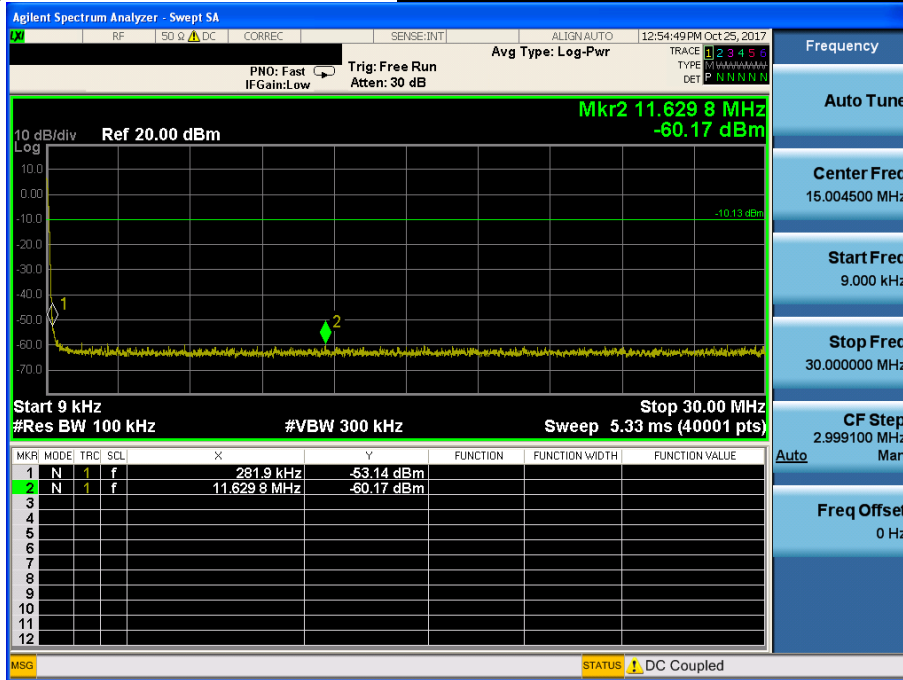
Reference for limit

***Middle Channel & Modulation : GFSK***



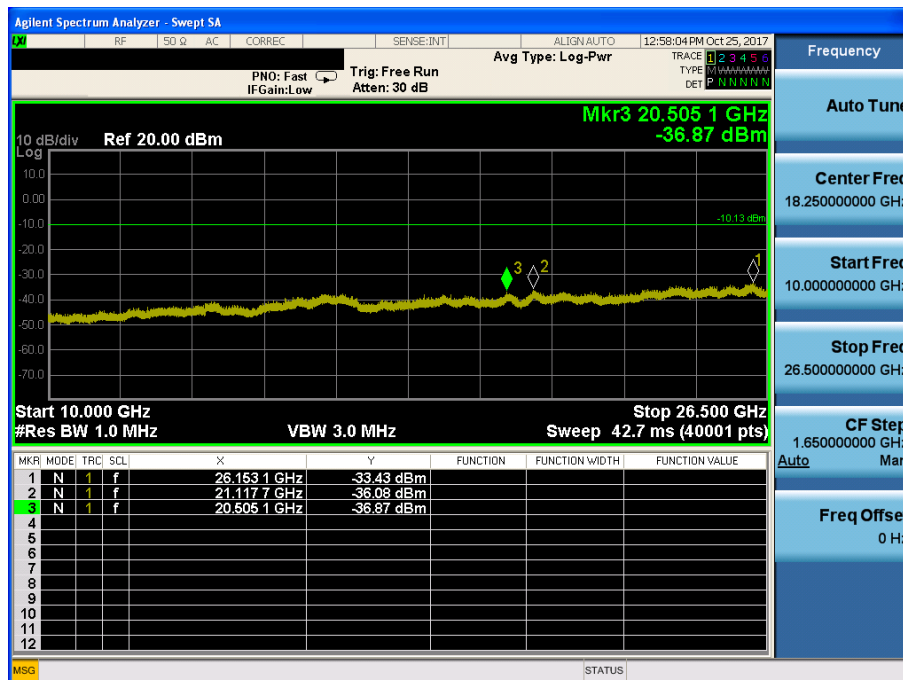
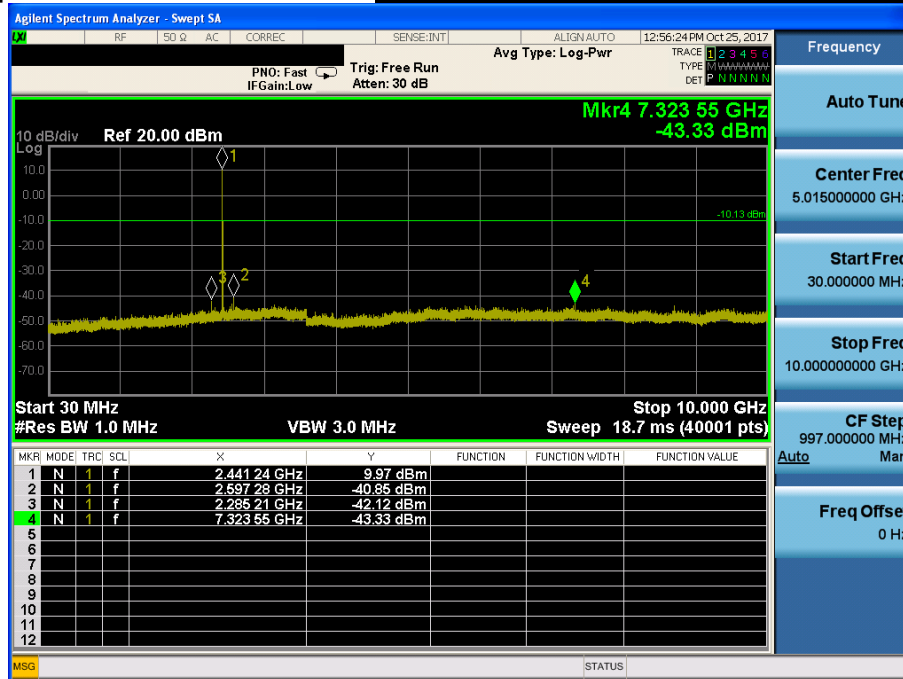
Conducted Spurious Emissions

***Middle Channel & Modulation : GFSK***



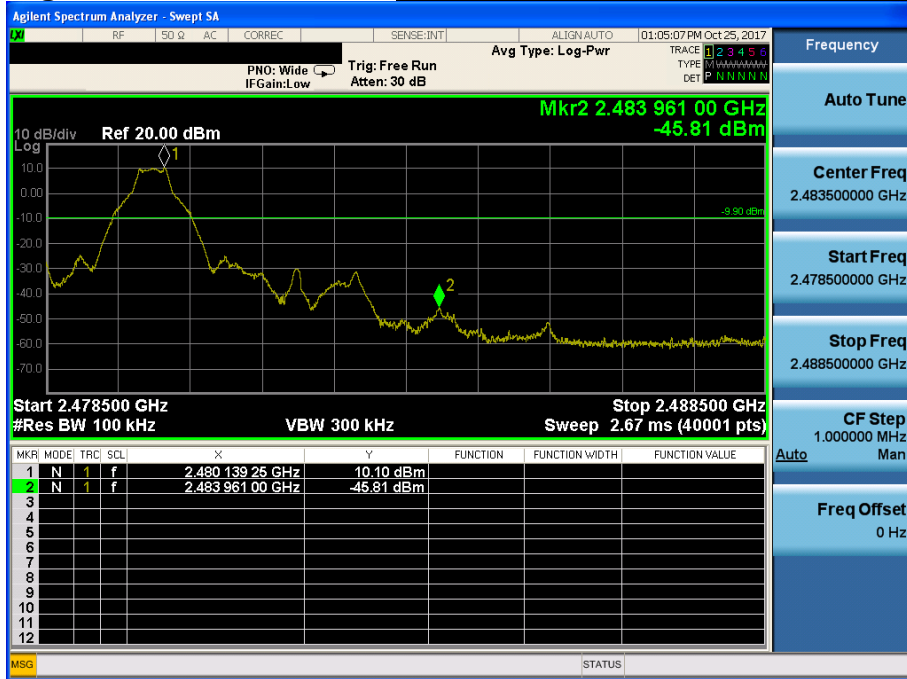


Conducted Spurious Emissions **Middle Channel & Modulation : GFSK**



High Band-edge

***Highest Channel & Modulation : GFSK***

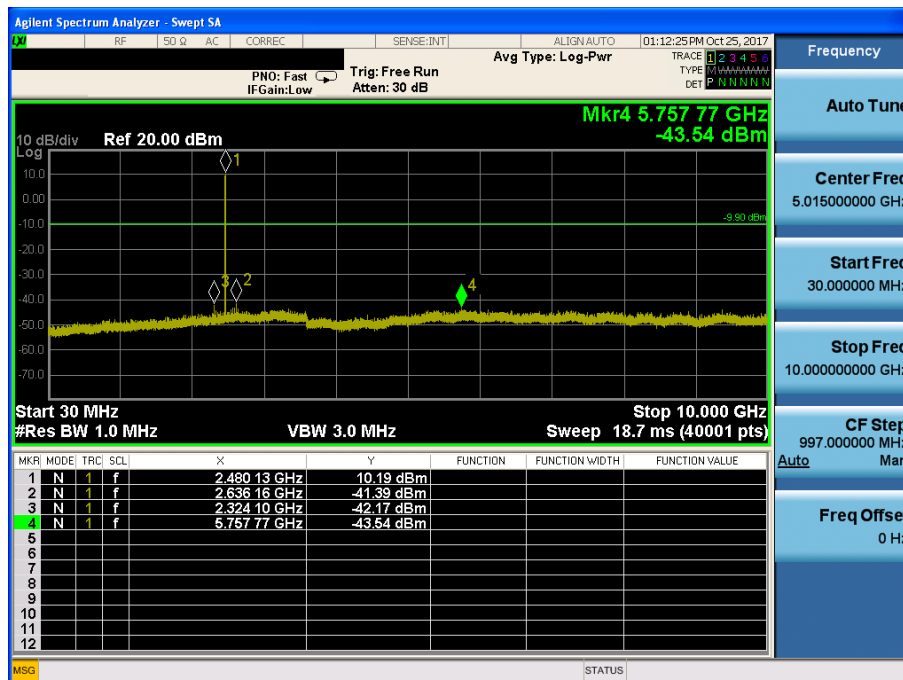
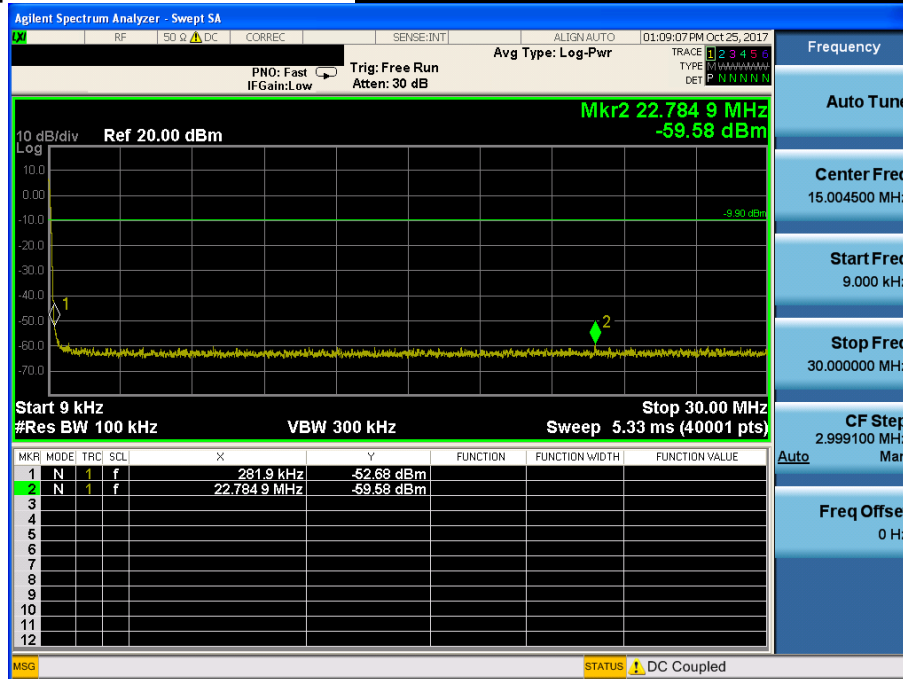


High Band-edge

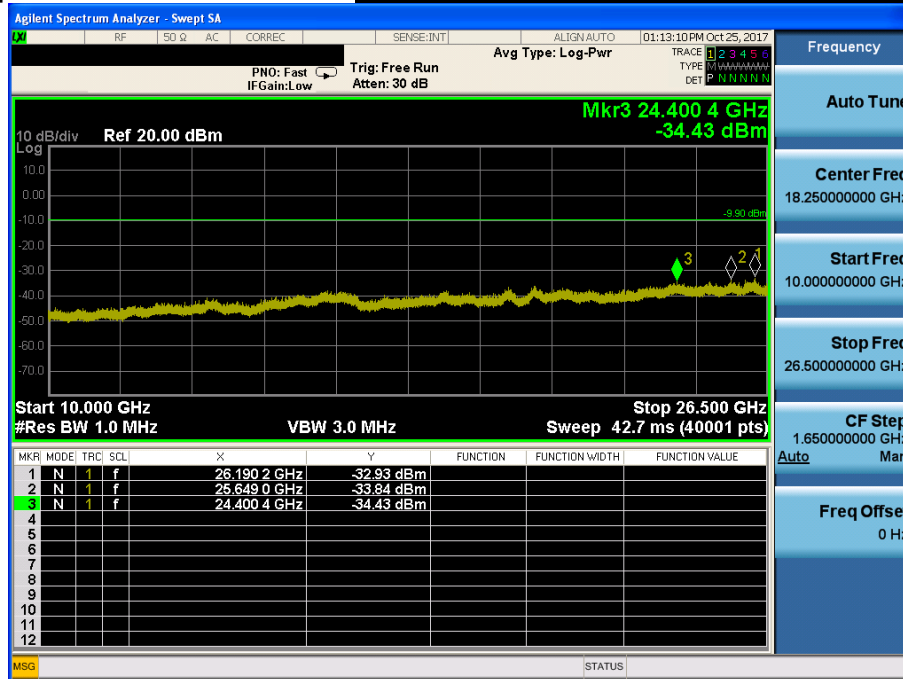
***Hopping mode & Modulation : GFSK***



Conducted Spurious Emissions **Highest Channel & Modulation : GFSK**



Conducted Spurious Emissions **Highest Channel & Modulation : GFSK**



Low Band-edge

Lowest Channel & Modulation :  $\pi/4$ DQPSK

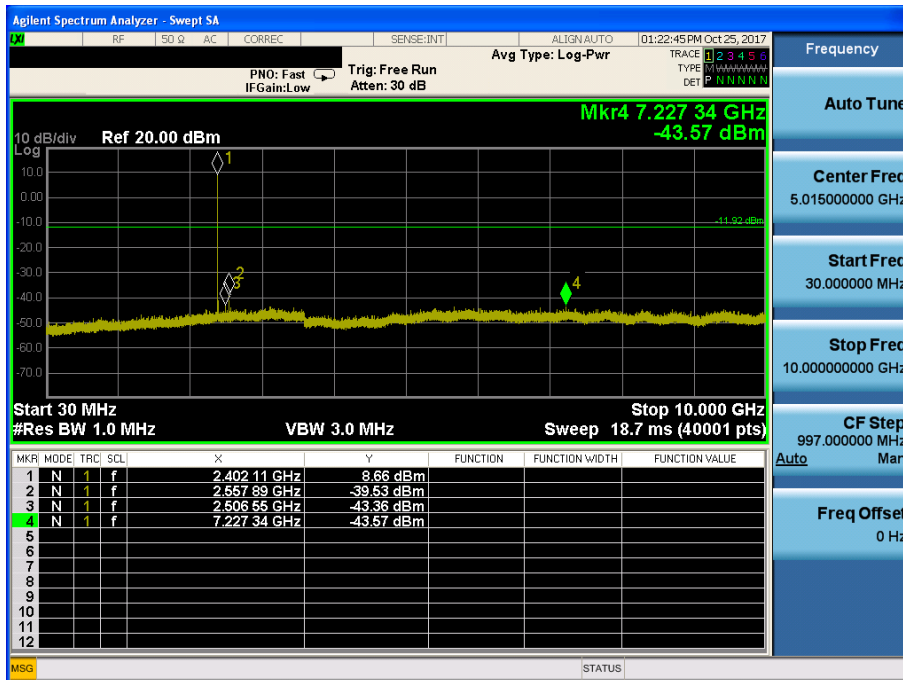
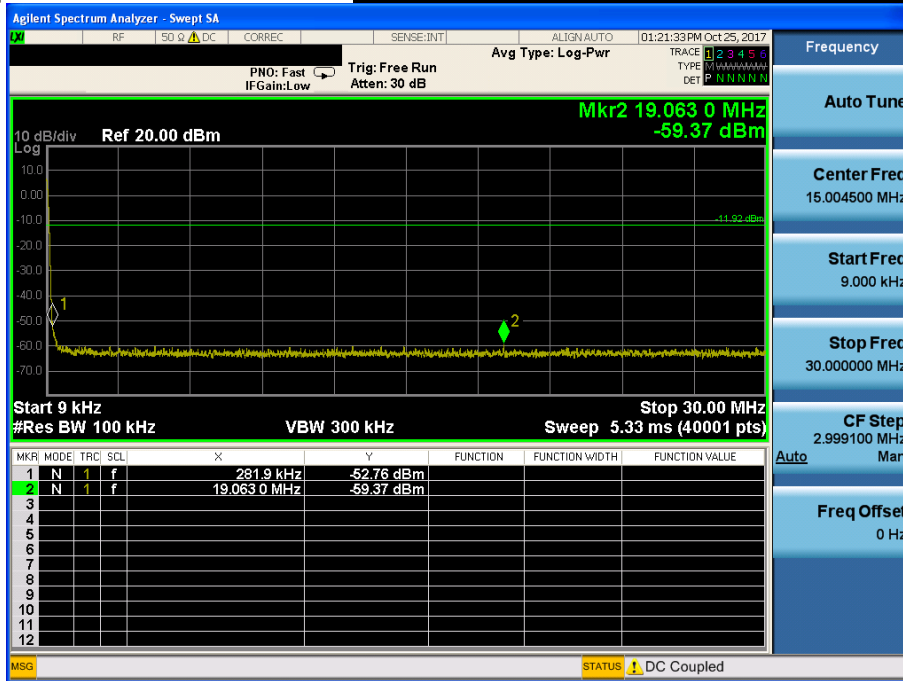


Low Band-edge

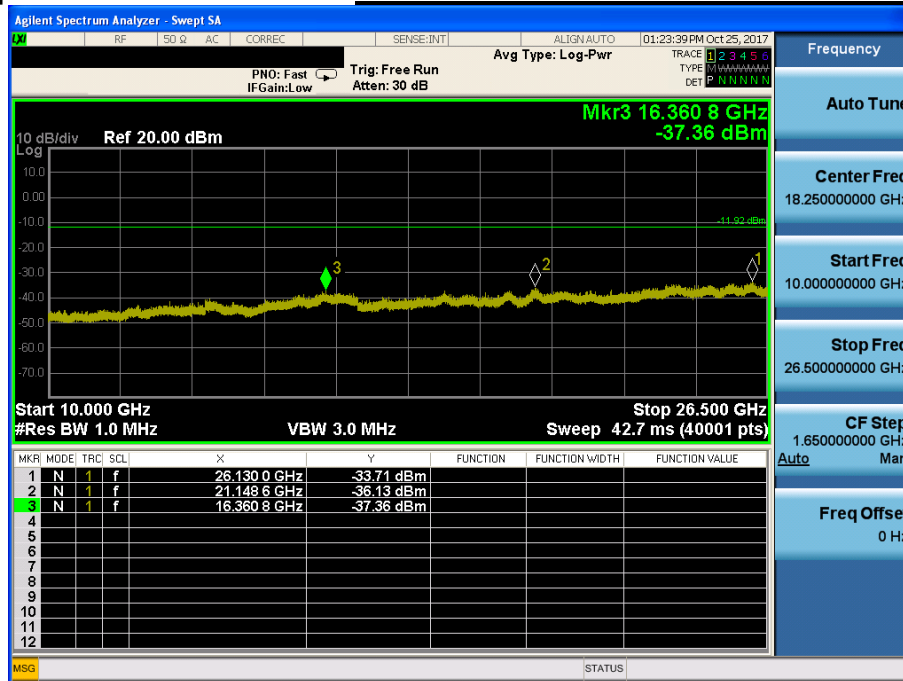
Hopping mode & Modulation :  $\pi/4$ DQPSK



Conducted Spurious Emissions **Lowest Channel & Modulation :  $\pi/4$ DQPSK**

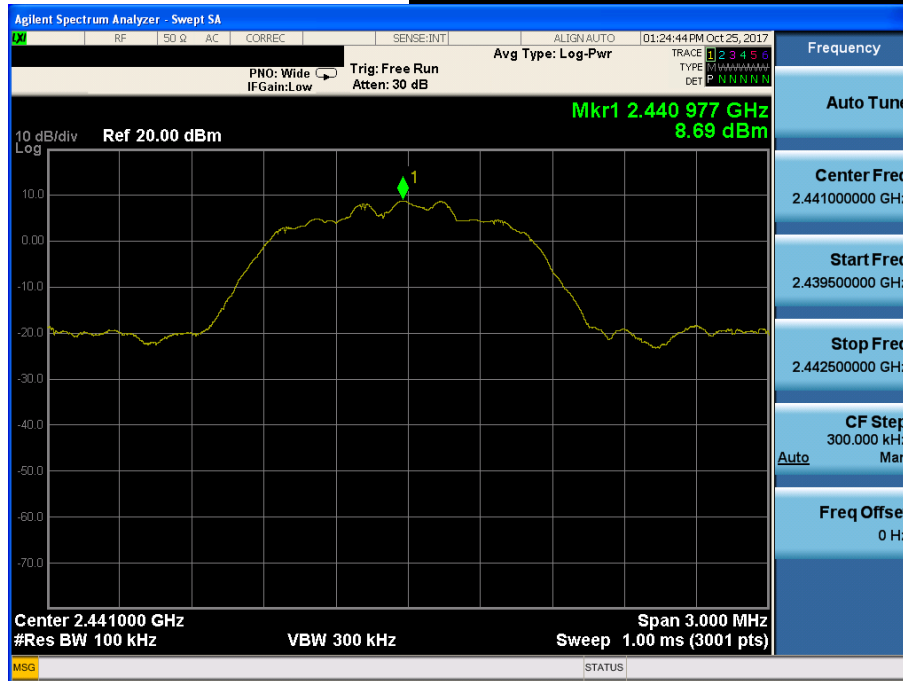


Conducted Spurious Emissions **Lowest Channel & Modulation :  $\pi/4$ DQPSK**



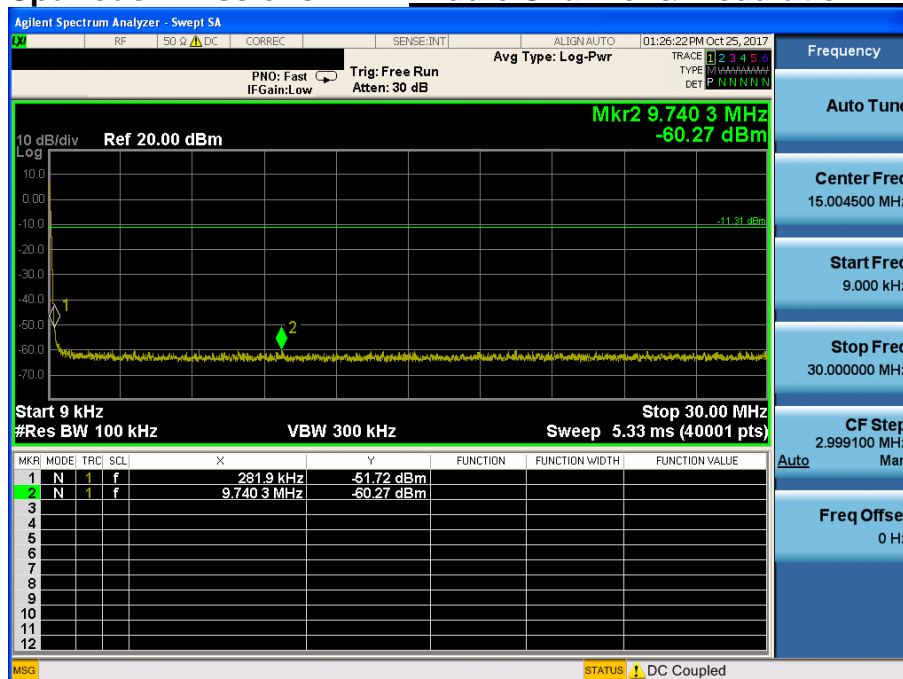
Reference for limit

**Middle Channel & Modulation :  $\pi/4$ DQPSK**



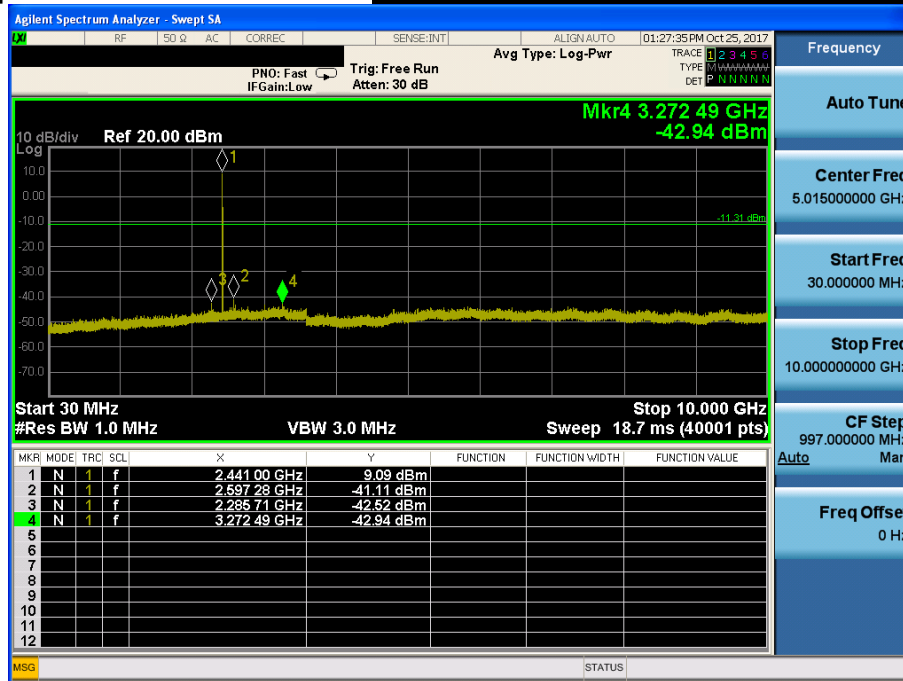
Conducted Spurious Emissions

**Middle Channel & Modulation :  $\pi/4$ DQPSK**





Conducted Spurious Emissions ***Middle Channel & Modulation :  $\pi/4$ DQPSK***



Frequency

Auto Tune

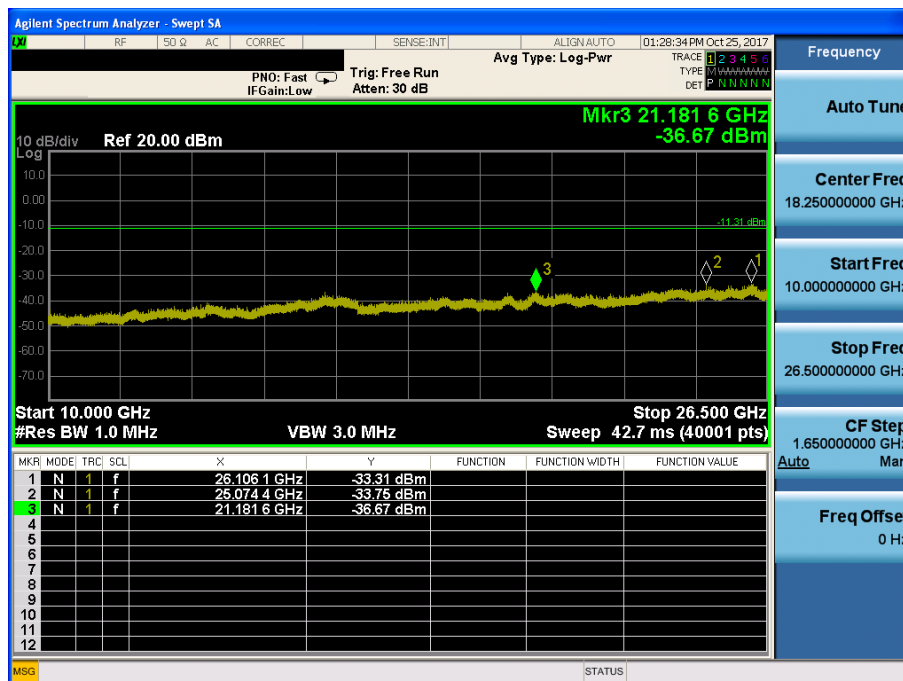
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Start Freq  
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Freq Offset  
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Frequency

Auto Tune

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Start Freq  
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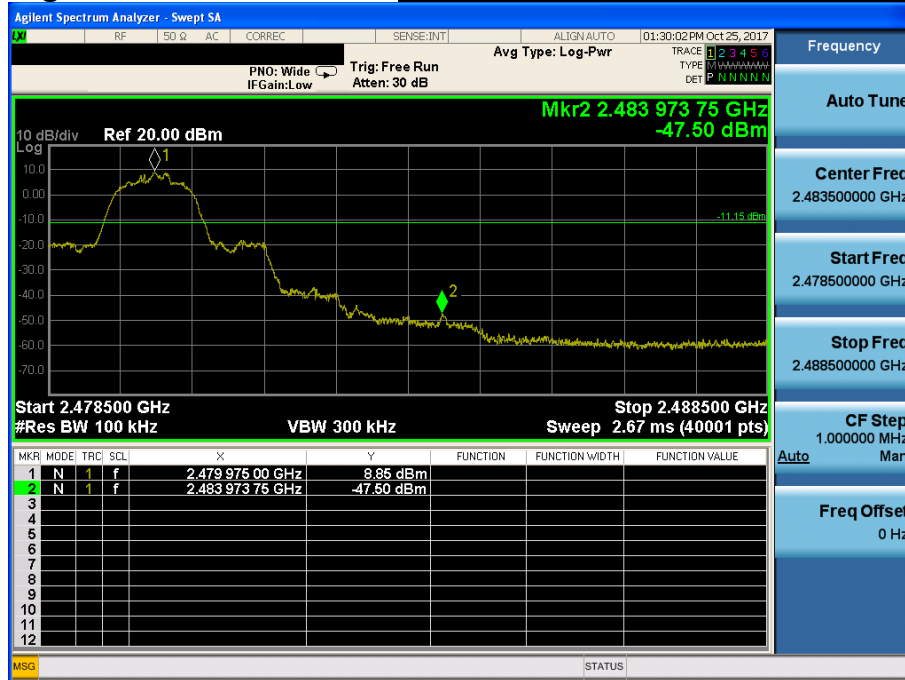
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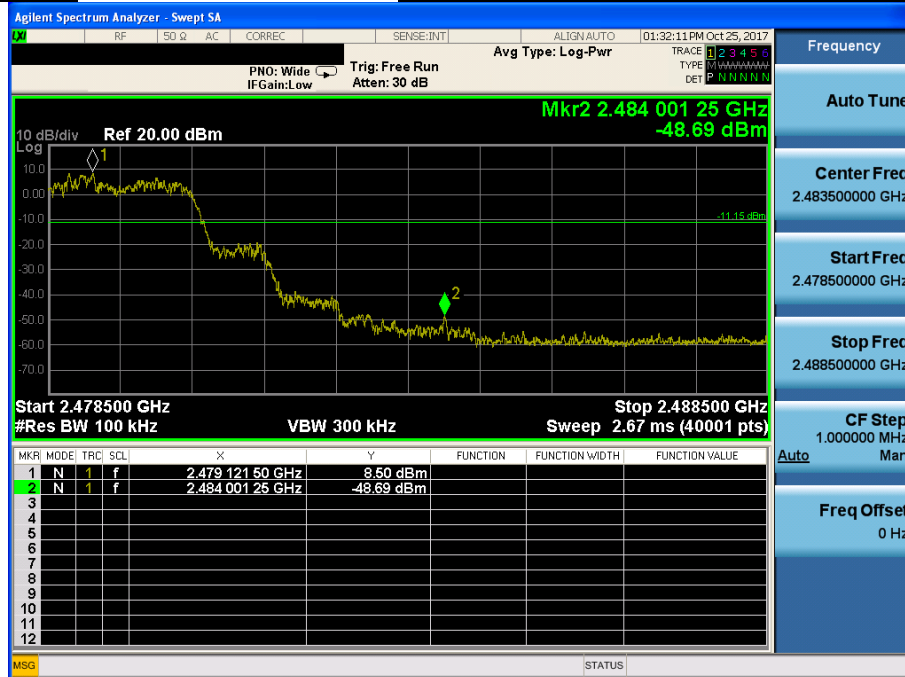
High Band-edge

Highest Channel & Modulation :  $\pi/4$ DQPSK

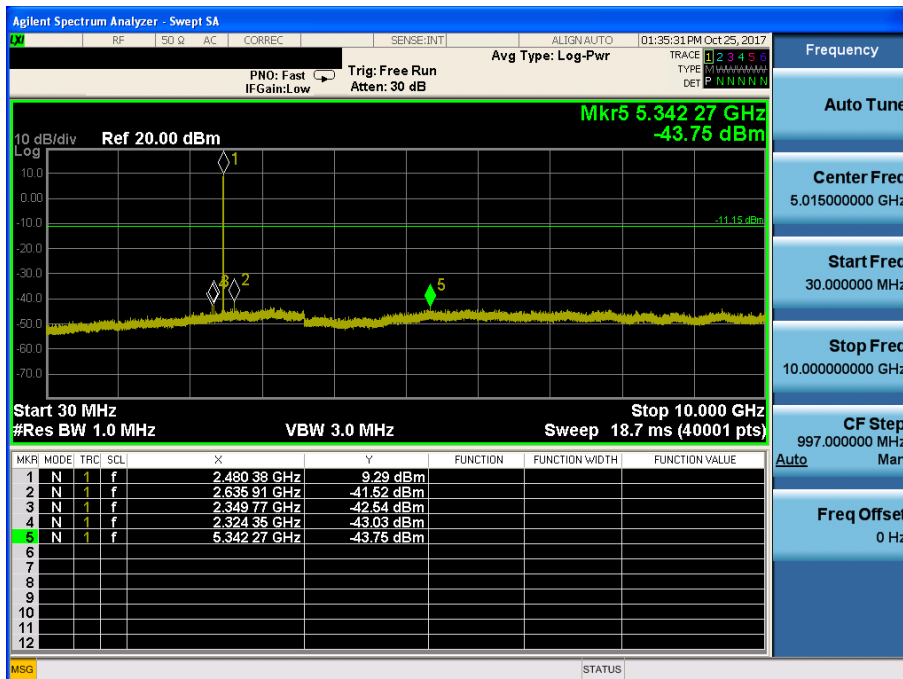
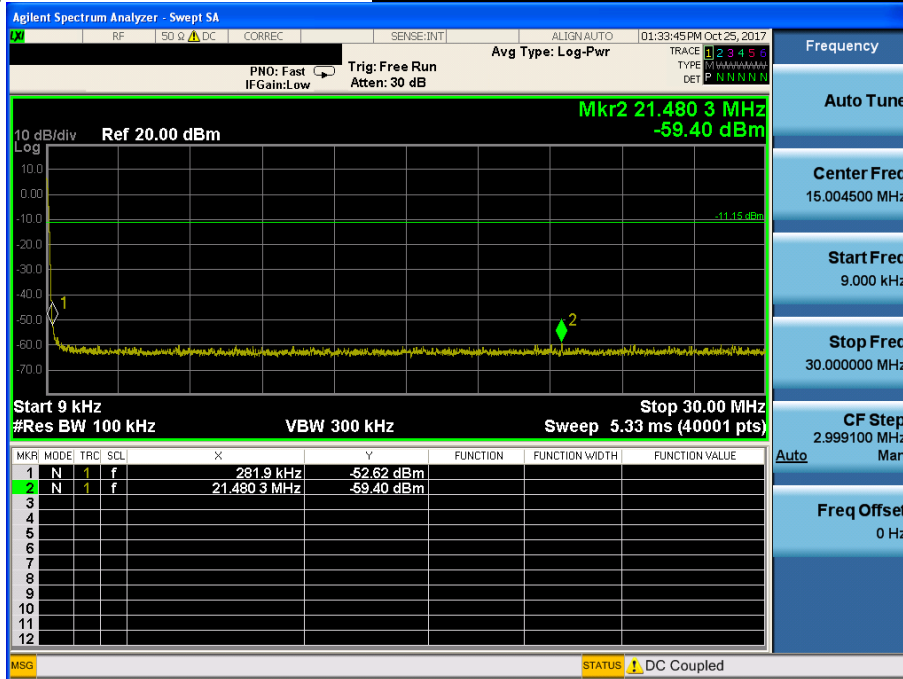


High Band-edge

Hopping mode & Modulation :  $\pi/4$ DQPSK

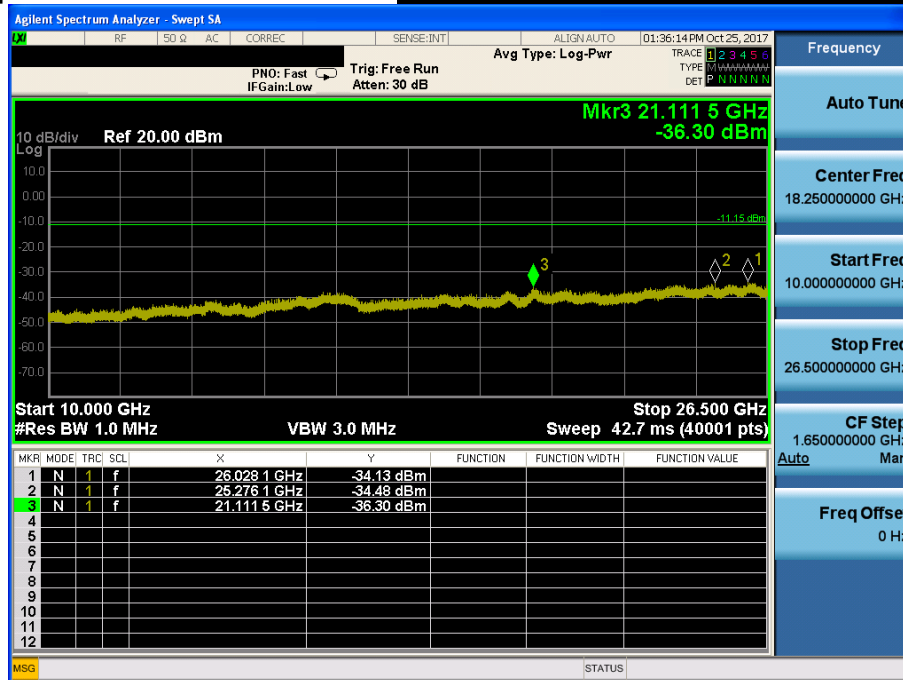


Conducted Spurious Emissions **Highest Channel & Modulation :  $\pi/4$ DQPSK**



Conducted Spurious Emissions

***Highest Channel & Modulation :  $\pi/4$ DQPSK***



Low Band-edge

***Lowest Channel & Modulation : 8DPSK***

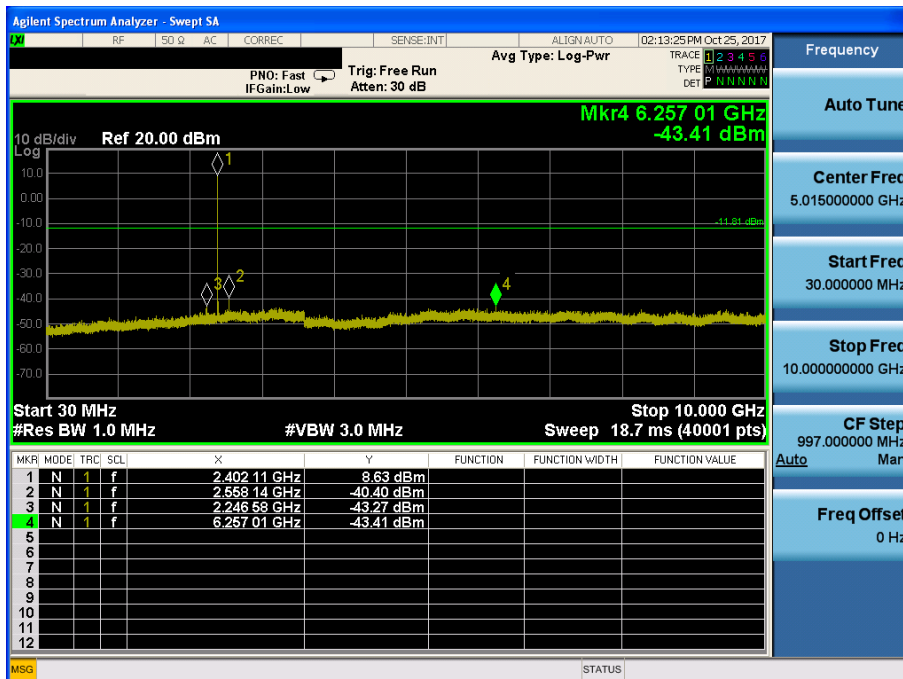
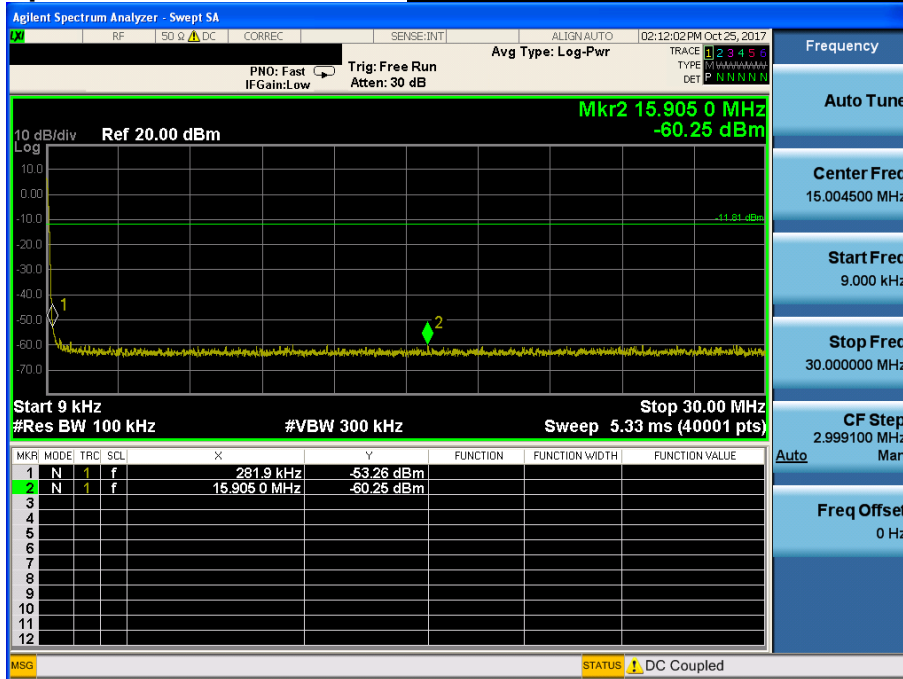


Low Band-edge

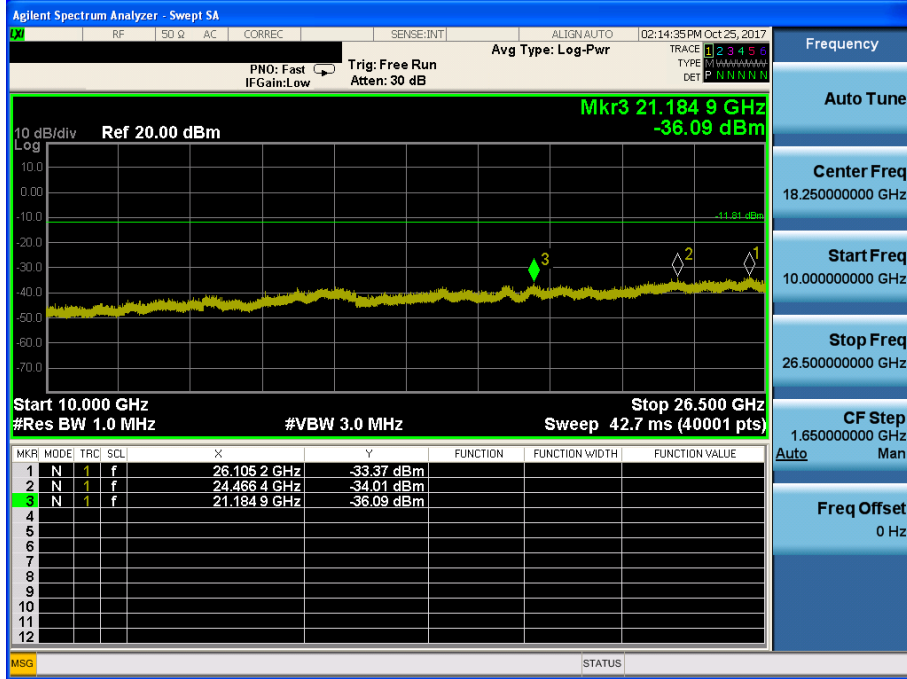
***Hopping mode & Modulation : 8DPSK***



**Conducted Spurious Emissions** *Lowest Channel & Modulation : 8DPSK*

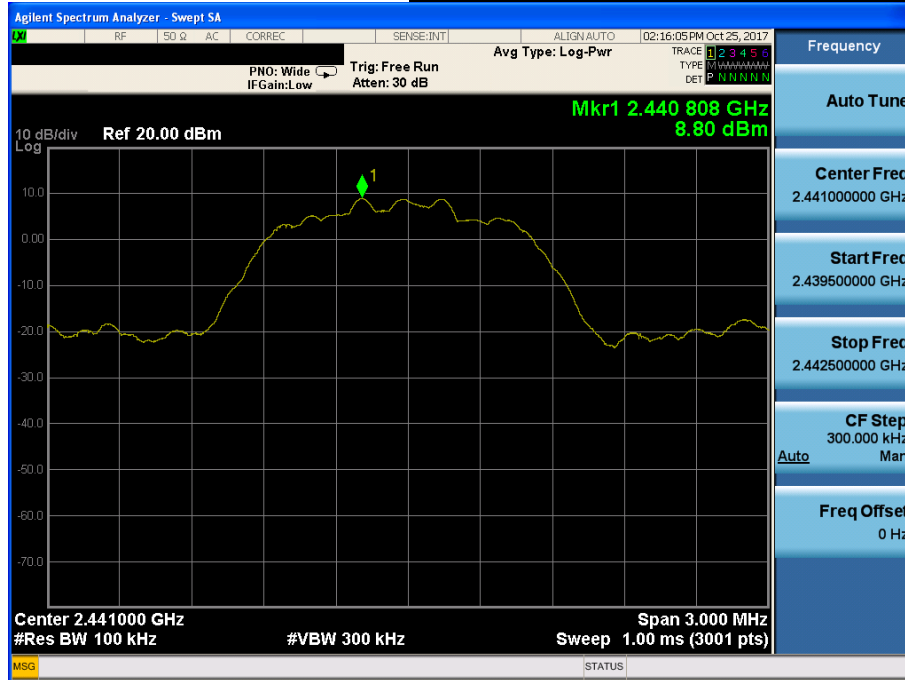


Conducted Spurious Emissions **Lowest Channel & Modulation : 8DPSK**



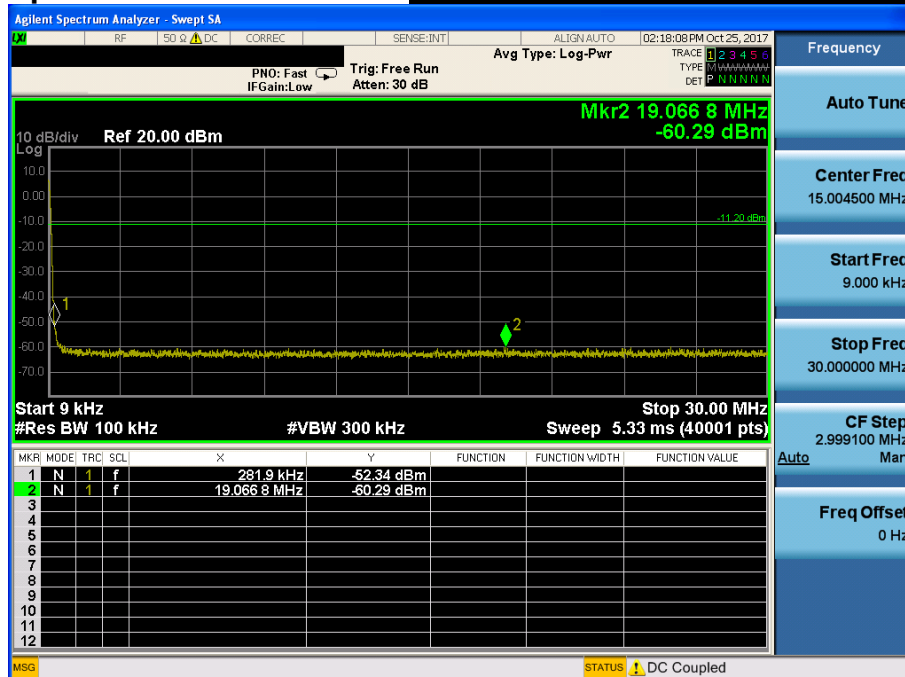
Reference for limit

***Middle Channel & Modulation : 8DPSK***



Conducted Spurious Emissions

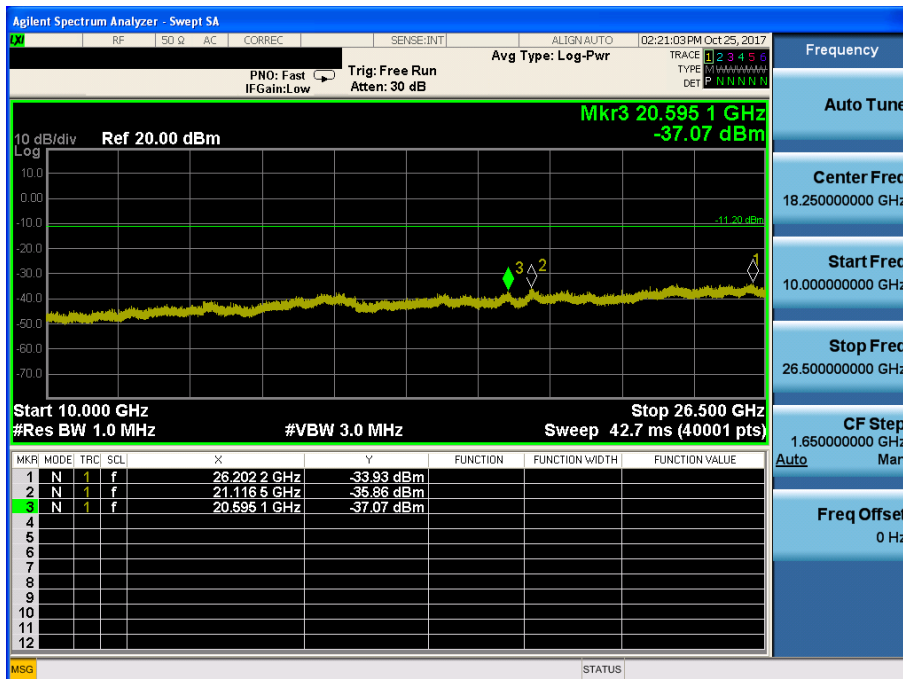
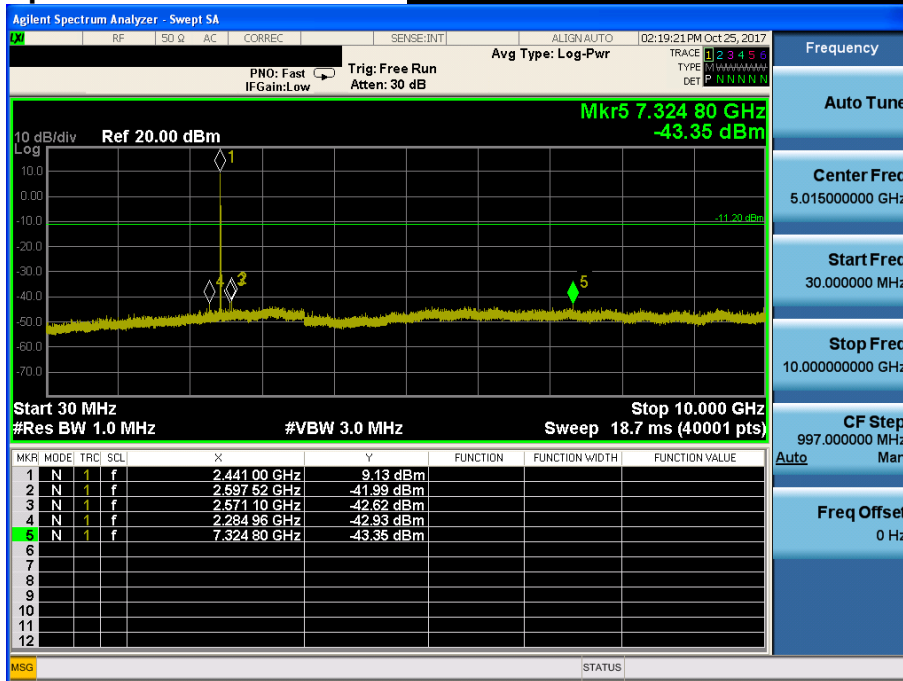
***Middle Channel & Modulation : 8DPSK***





Conducted Spurious Emissions

Middle Channel & Modulation : 8DPSK



High Band-edge

***Highest Channel & Modulation : 8DPSK***

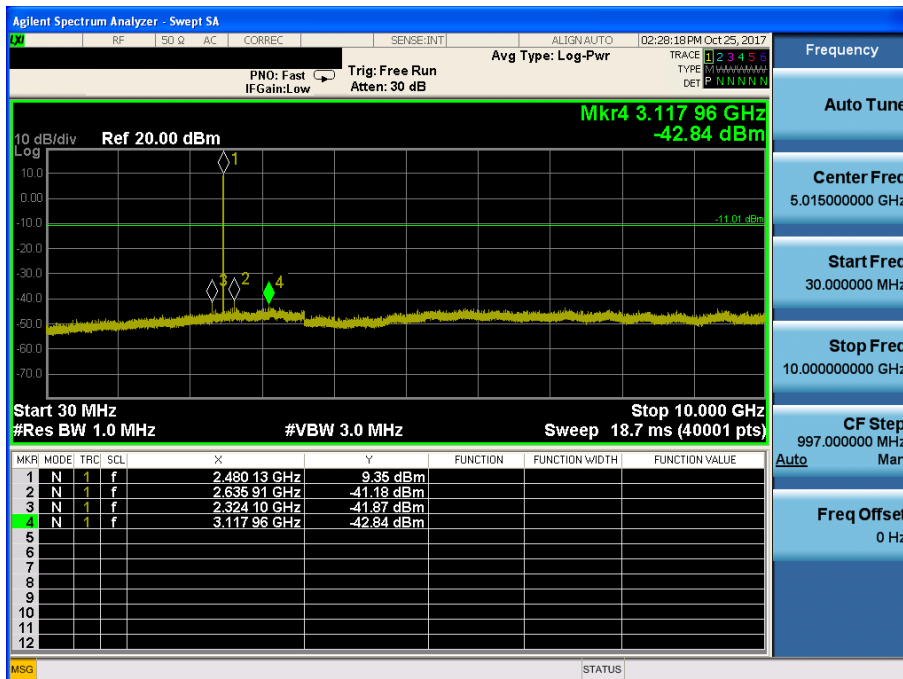
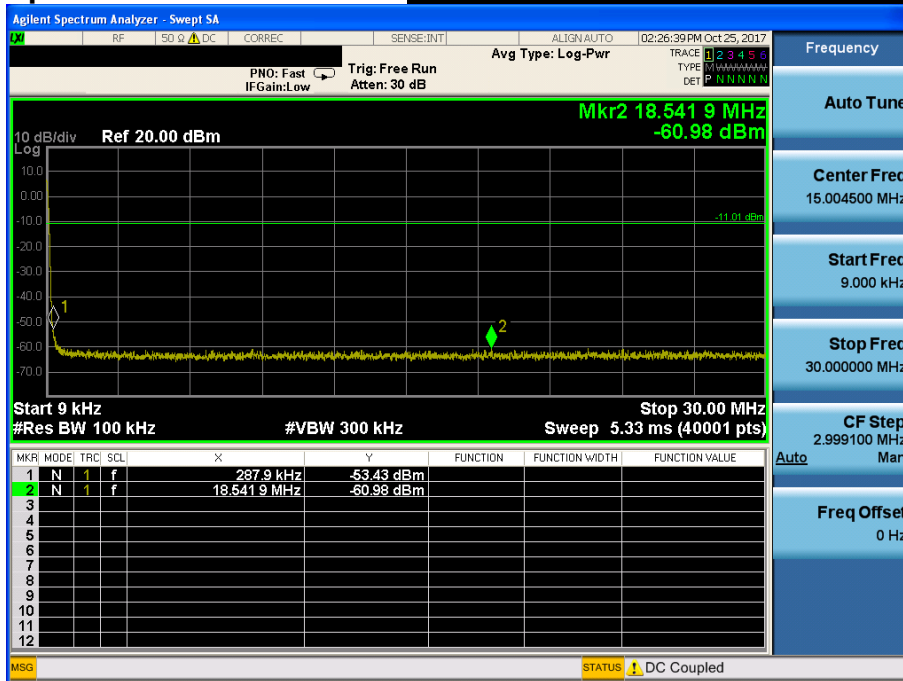


High Band-edge

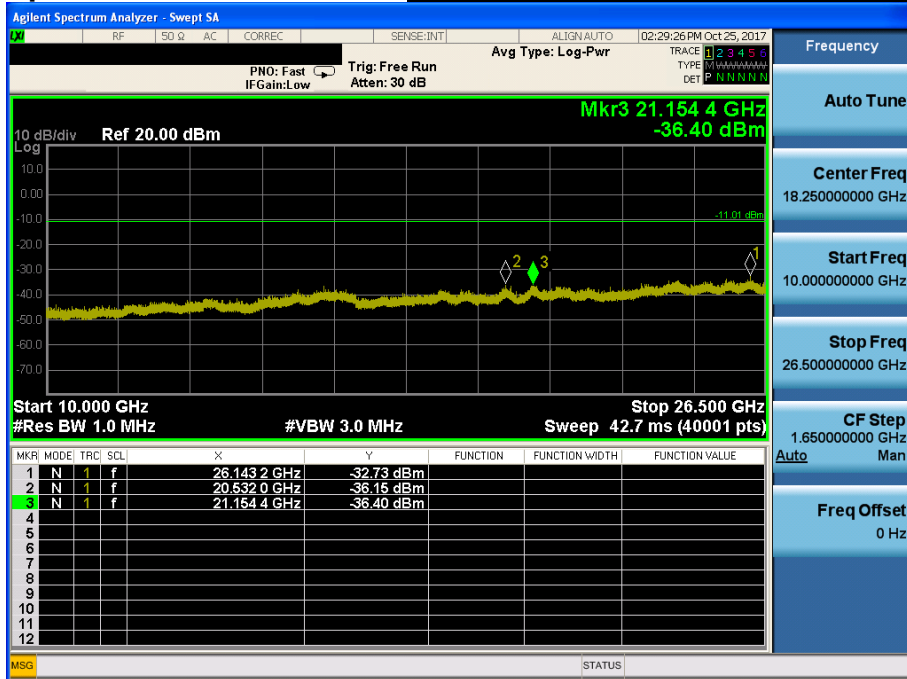
***Hopping mode & Modulation : 8DPSK***



Conducted Spurious Emissions *Highest Channel & Modulation : 8DPSK*



**Conducted Spurious Emissions**      ***Highest Channel & Modulation : 8DPSK***



## 8. Transmitter AC Power Line Conducted Emission

### 8.1 Test Setup

See test photographs for the actual connections between EUT and support equipment.

### 8.2 Limit

According to §15.207(a) 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 or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 uH/50 ohm line impedance stabilization network (LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 ~ 0.5	66 to 56 *	56 to 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

\* Decreases with the logarithm of the frequency

### 8.3 Test Procedures

Conducted emissions from the EUT were measured according to the ANSI C63.10.

1. The test procedure is performed in a 6.5 m × 3.5 m × 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

**8.4 Test Results**

**AC Line Conducted Emissions (Graph) = Modulation : 8DPSK**

**Results of Conducted Emission**

DTNC

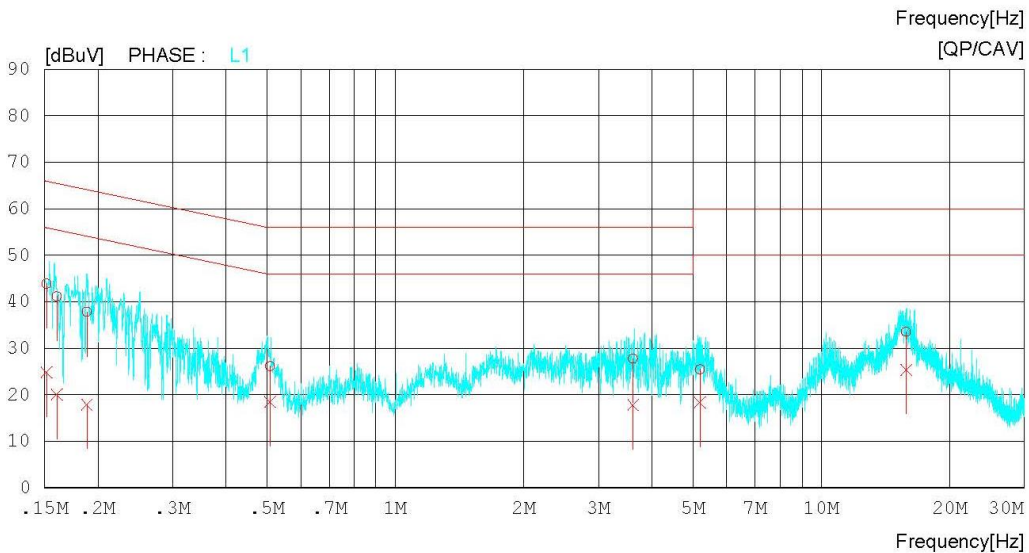
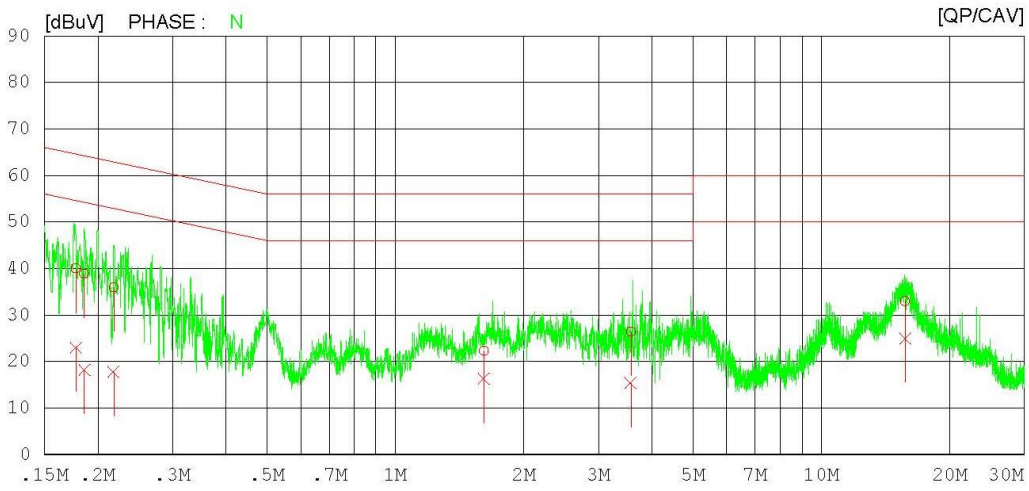
Date 2017-11-01

Order No.  
Model No. MFB-H7100  
Serial No.  
Test Condition

Reference No.  
Power Supply  
Temp/Humi. 27/35  
Operator J.H.BANG

Memo

LIMIT : FCC P15.207 QP  
FCC P15.207 AV



**AC Line Conducted Emissions (List) = Modulation : 8DPSK**
Results of Conducted Emission

DTNC

Date 2017-11-01

 Order No.  
 Model No. MFB-H7100  
 Serial No.  
 Test Condition

 Reference No.  
 Power Supply  
 Temp/Humi. 27/35  
 Operator J.H.BANG

Memo

 LIMIT : FCC P15.207 QP  
 FCC P15.207 AV

NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.17769	30.05	13.05	9.90	39.95	22.95	64.59	54.59	24.64	31.64	N
2	0.18606	28.99	8.33	9.90	38.89	18.23	64.21	54.21	25.32	35.98	N
3	0.21800	26.02	7.83	9.90	35.92	17.73	62.89	52.89	26.97	35.16	N
4	1.61340	12.36	6.38	9.94	22.30	16.32	56.00	46.00	33.70	29.68	N
5	3.56800	16.39	5.36	10.00	26.39	15.36	56.00	46.00	29.61	30.64	N
6	15.75180	22.78	14.76	10.24	33.02	25.00	60.00	50.00	26.98	25.00	N
7	0.15150	33.95	14.91	9.89	43.84	24.80	65.92	55.92	22.08	31.12	L1
8	0.16032	31.25	10.07	9.89	41.14	19.96	65.45	55.45	24.31	35.49	L1
9	0.18846	27.86	7.93	9.90	37.76	17.83	64.10	54.10	26.34	36.27	L1
10	0.50749	16.21	8.50	9.90	26.11	18.40	56.00	46.00	29.89	27.60	L1
11	3.61280	17.73	7.71	10.00	27.73	17.71	56.00	46.00	28.27	28.29	L1
12	5.18920	15.39	8.22	10.07	25.46	18.29	60.00	50.00	34.54	31.71	L1
13	15.83060	23.20	15.16	10.24	33.44	25.40	60.00	50.00	26.56	24.60	L1

## 9. Antenna Requirement

Describe how the EUT complies with the requirement that either its antenna is permanently attached, or that it employs a unique antenna connector, for every antenna proposed for use with the EUT.

**Conclusion: Comply**

**The antenna is permanently attached on PCB. (Refer to Internal Photo file.)  
Therefore this E.U.T Complies with the requirement of §15.203**

**- Minimum Standard :**

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.
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## 10. Occupied Bandwidth (99 %)

### 10.1 Test Setup

NA

### 10.2 Limit

Limit : Not Applicable

### 10.3 Test Procedure

The 99 % power bandwidth was measured with a calibrated spectrum analyzer.

The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately  $3 \times$  RBW.

Spectrum analyzer plots are included on the following pages.

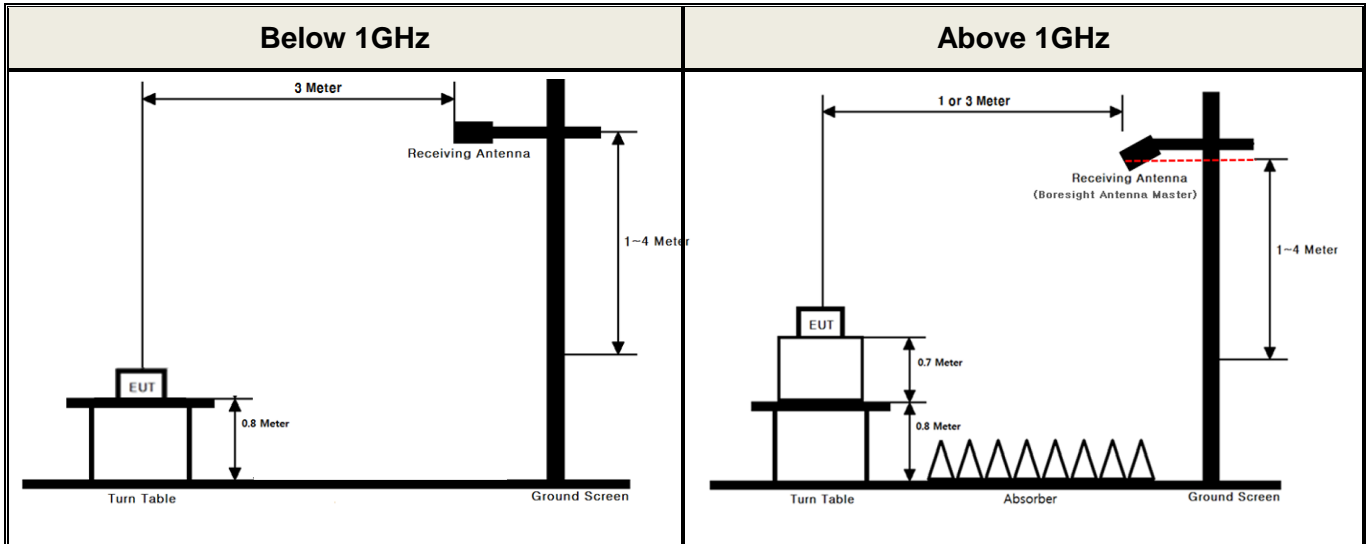
### 10.4 Test Results

NA

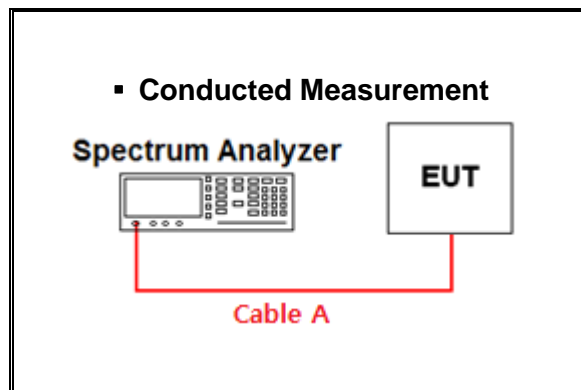
## APPENDIX I

### Test set up diagrams

#### ▪ Radiated Measurement



#### ▪ Conducted Measurement



Path loss information

Frequency (GHz)	Path Loss (dB)	Frequency (GHz)	Path Loss (dB)
0.03	0.58	15	3.32
1	0.74	20	4.13
2.402 & 2.441 & 2.480	1.34	25	4.62
5	1.87	-	-
10	2.48	-	-

Note 1 : The path loss from EUT to Spectrum analyzer were measured and used for test.

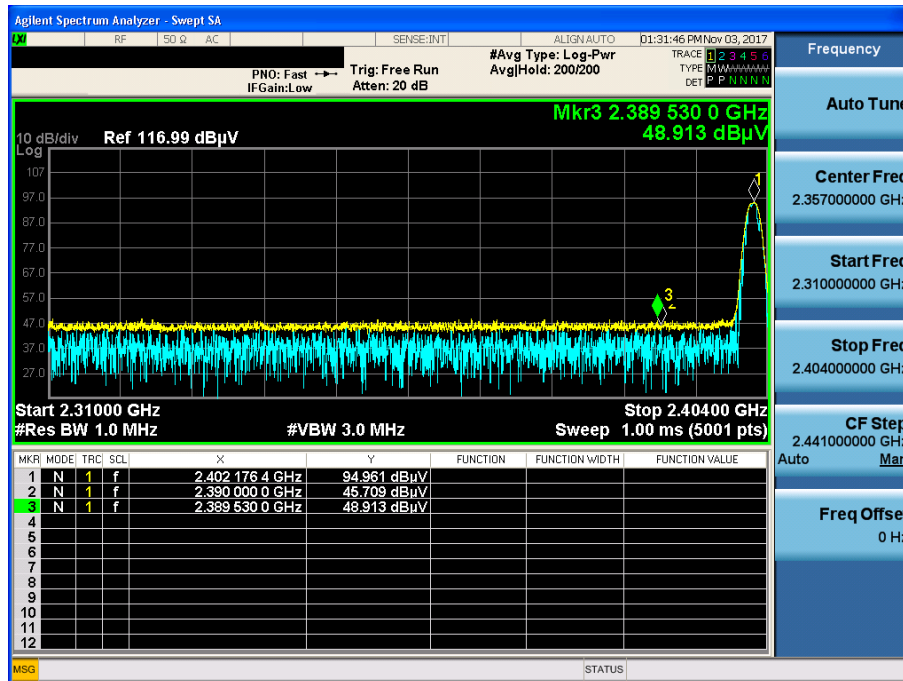
Path loss ( S/A's Correction factor) = Cable A

## APPENDIX II

### Unwanted Emissions (Radiated) Test Plot

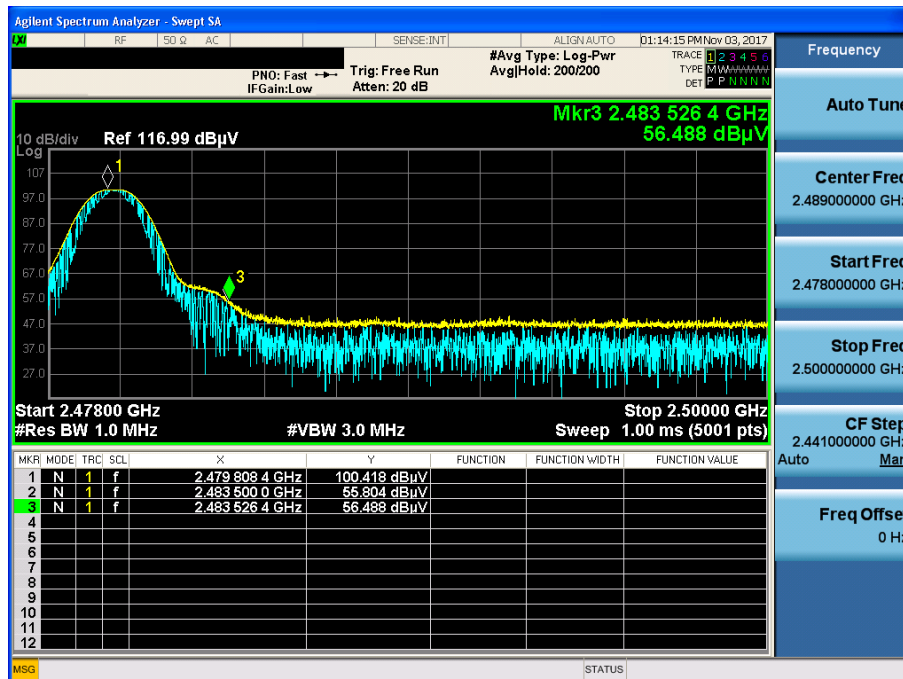
GFSK & Lowest & Z & Hor

Detector Mode : PK



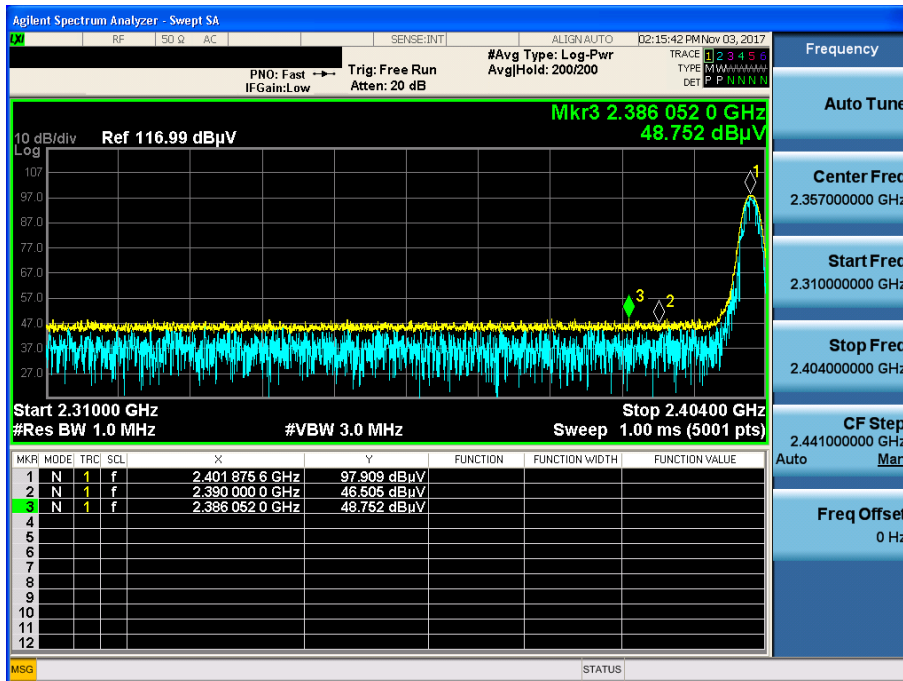
GFSK & Highest & Z & Hor

Detector Mode : PK



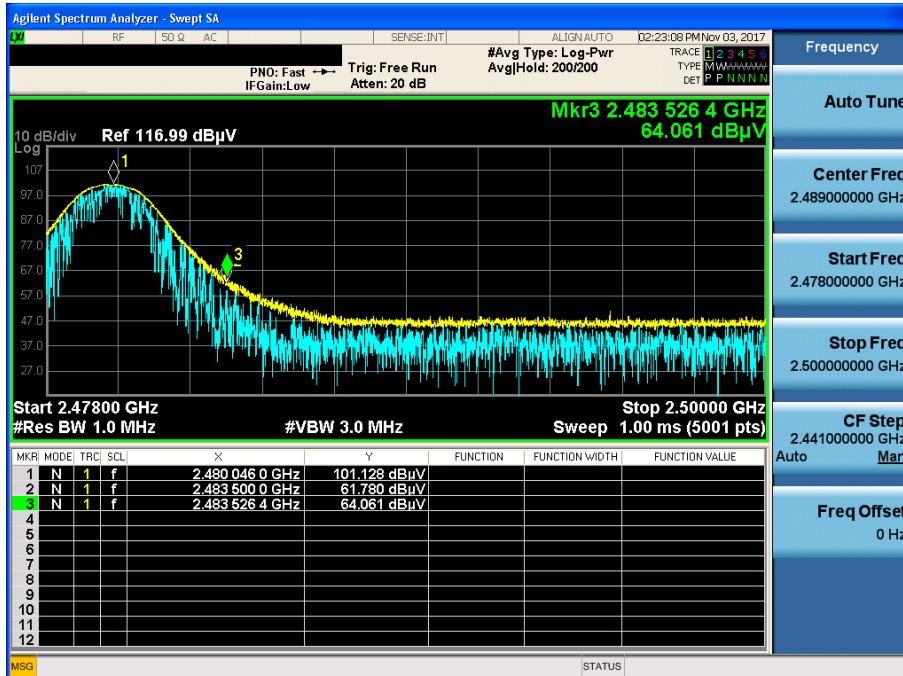
$\pi/4$ DQPSK & Lowest & X & Hor

Detector Mode : PK



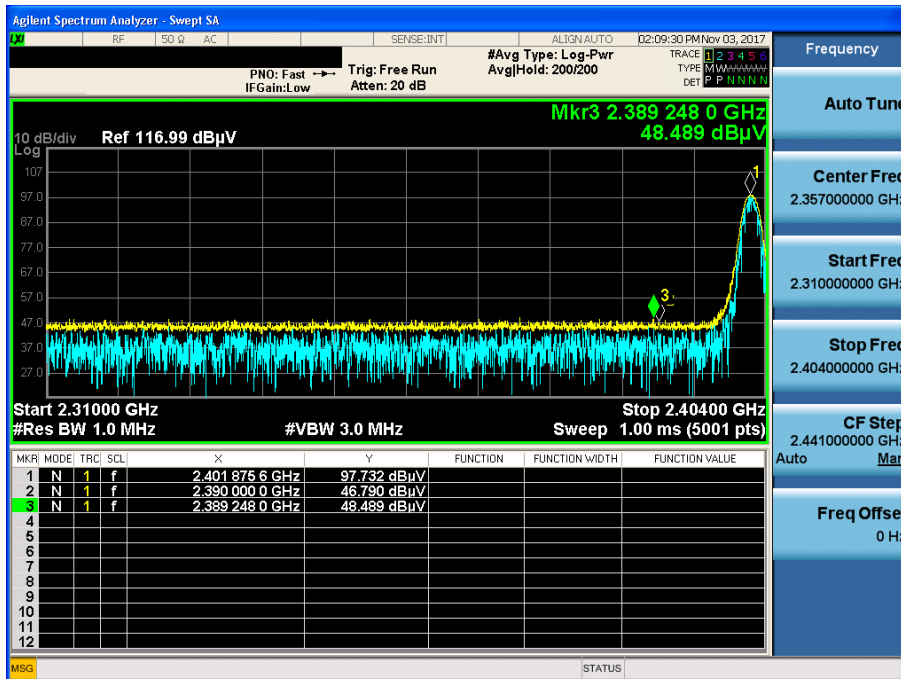
$\pi/4$ DQPSK & Highest & X & Hor

Detector Mode : PK



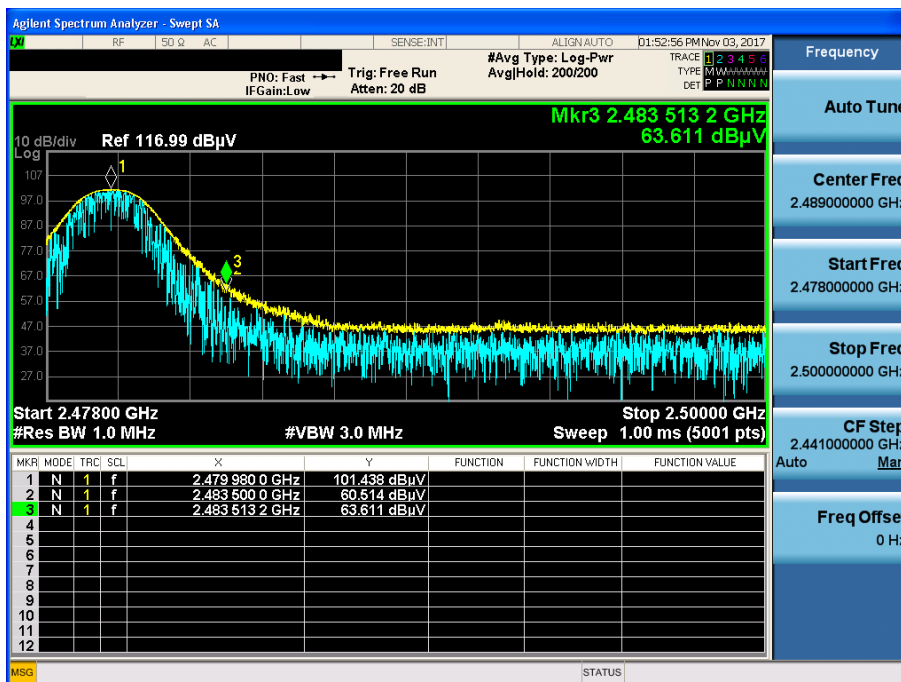
8DPSK & Lowest & X & Hor

Detector Mode : PK



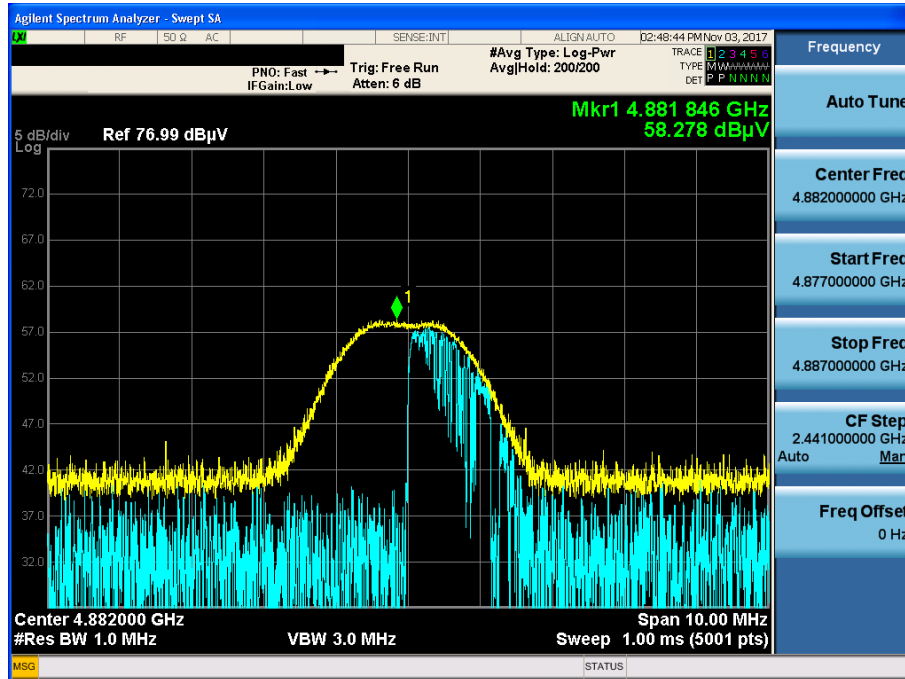
8DPSK & Highest & X & Hor

Detector Mode : PK



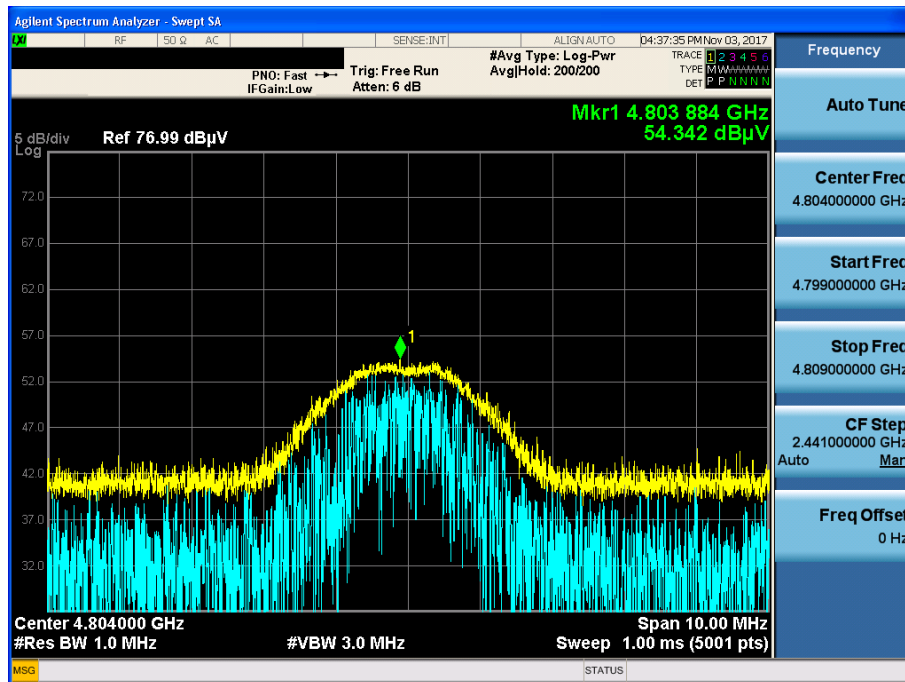
GFSK & Middle & Z & Hor

Detector Mode : PK



$\pi/4$ DQPSK & Lowest & Z & Hor

Detector Mode : PK



8DPSK & Middle & Z & Hor

Detector Mode : PK

