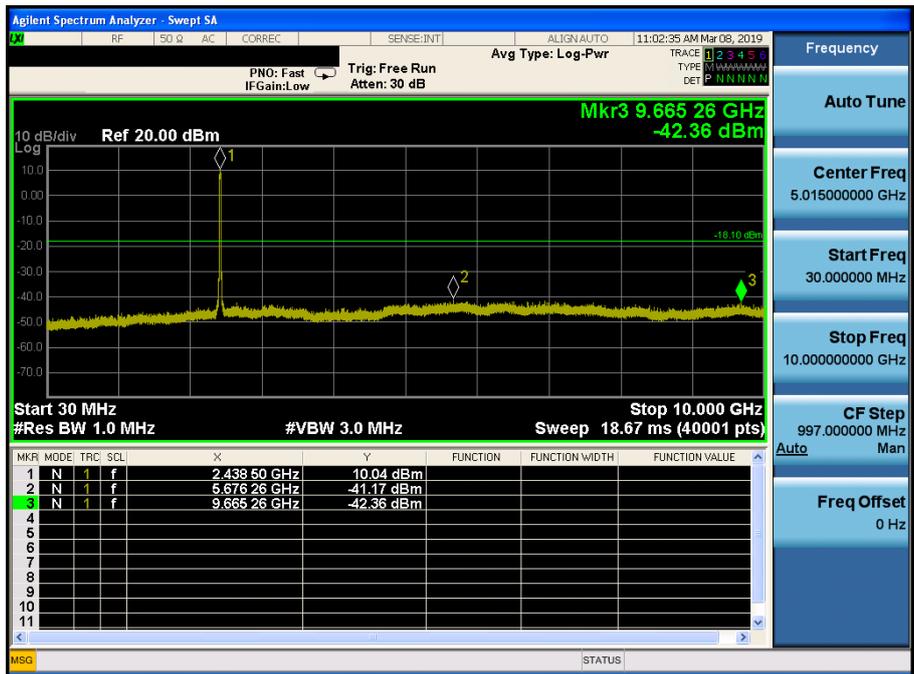
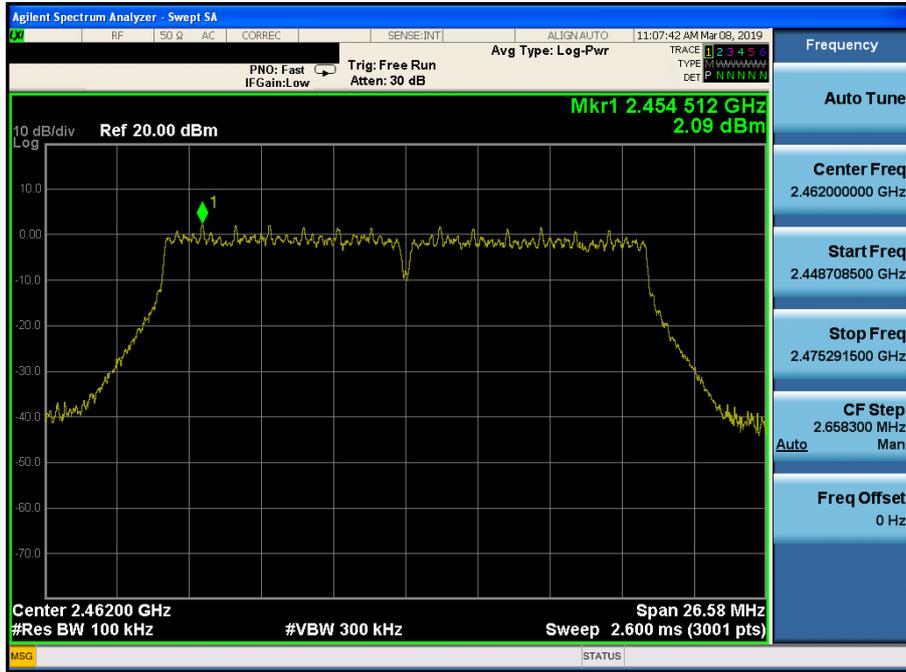


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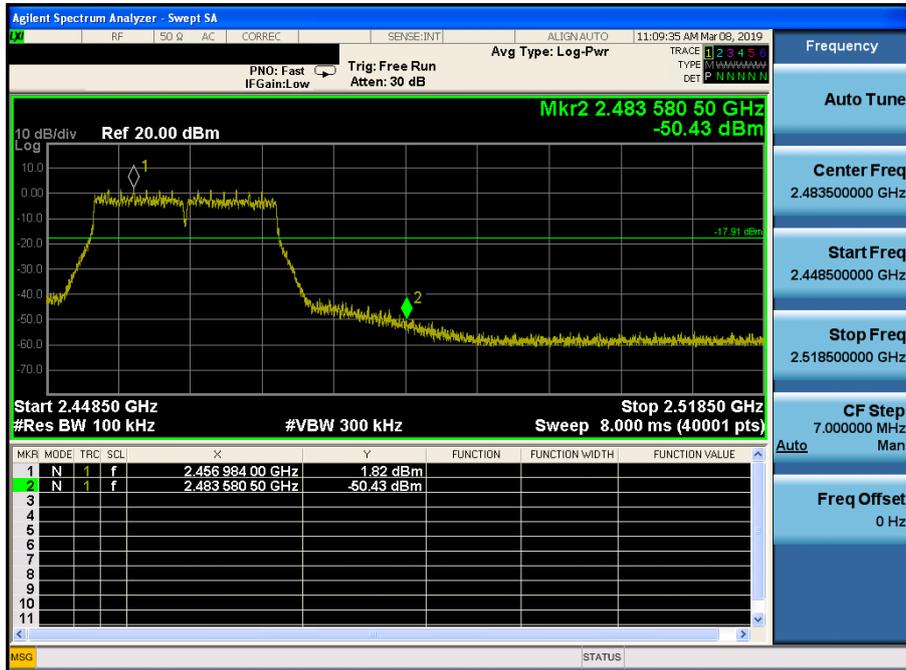


TM 6 & ANT 2 & 2462

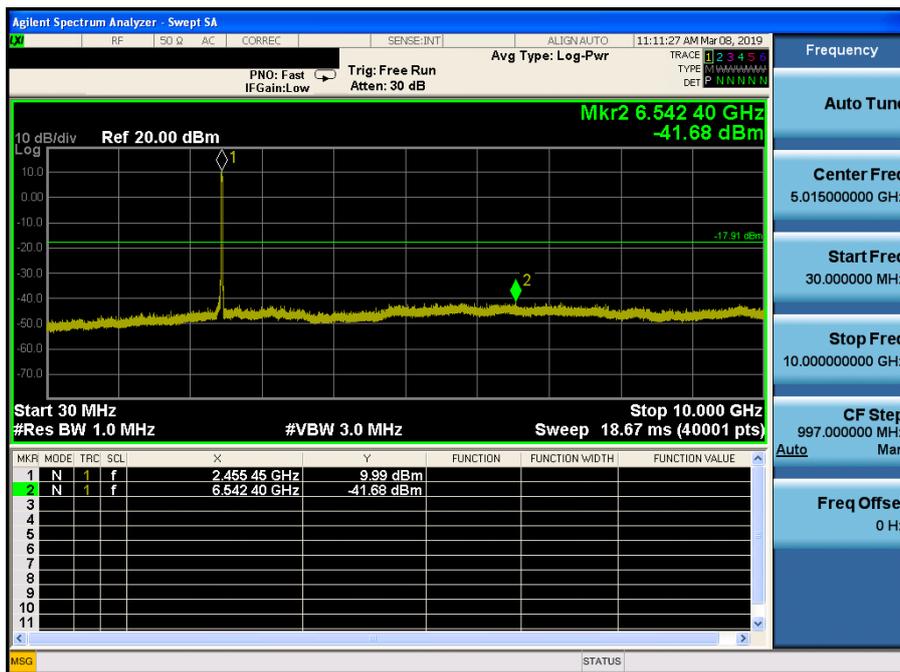
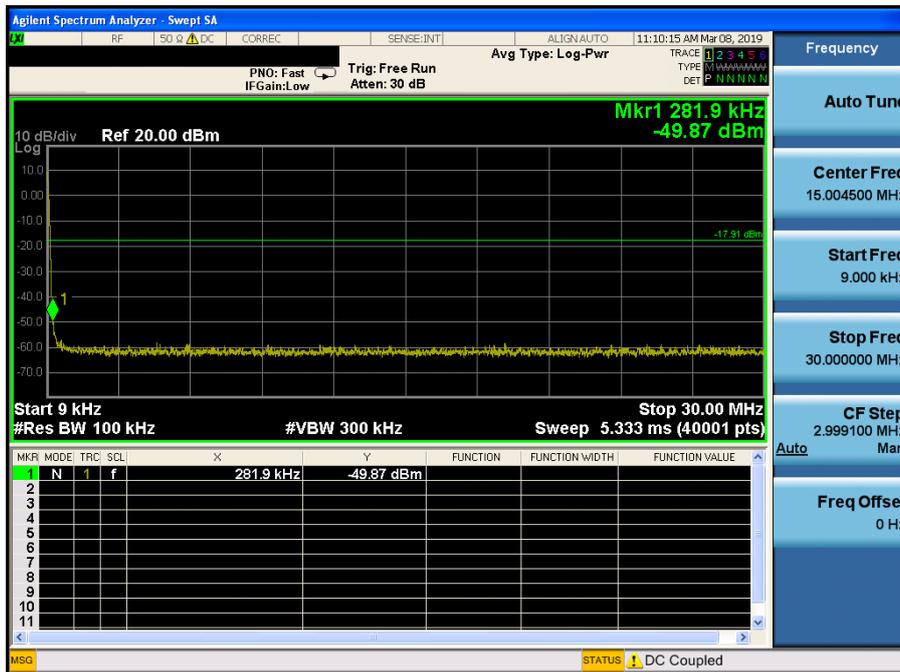
Reference



High Band-edge



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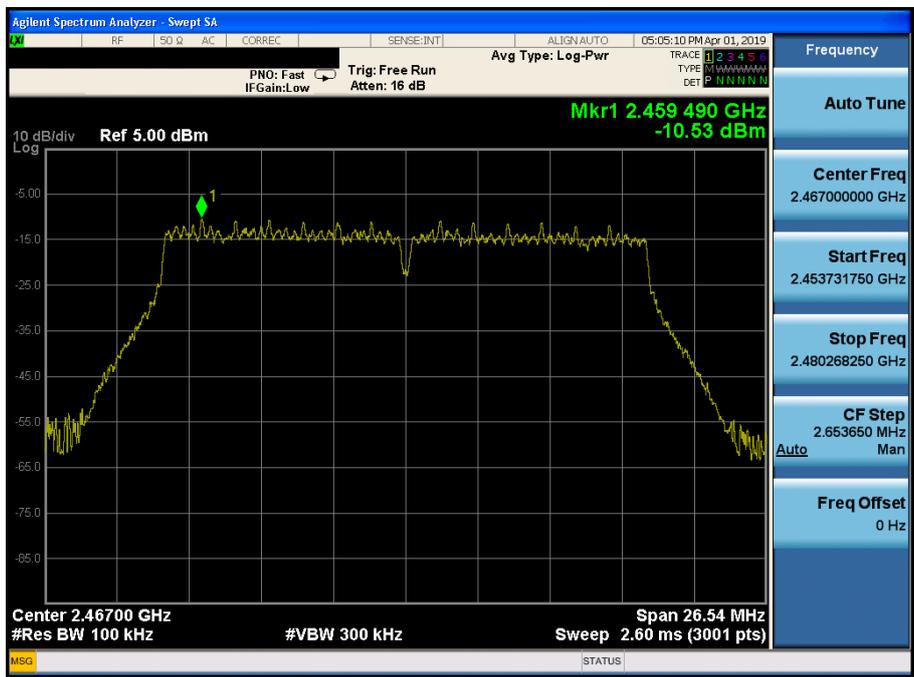


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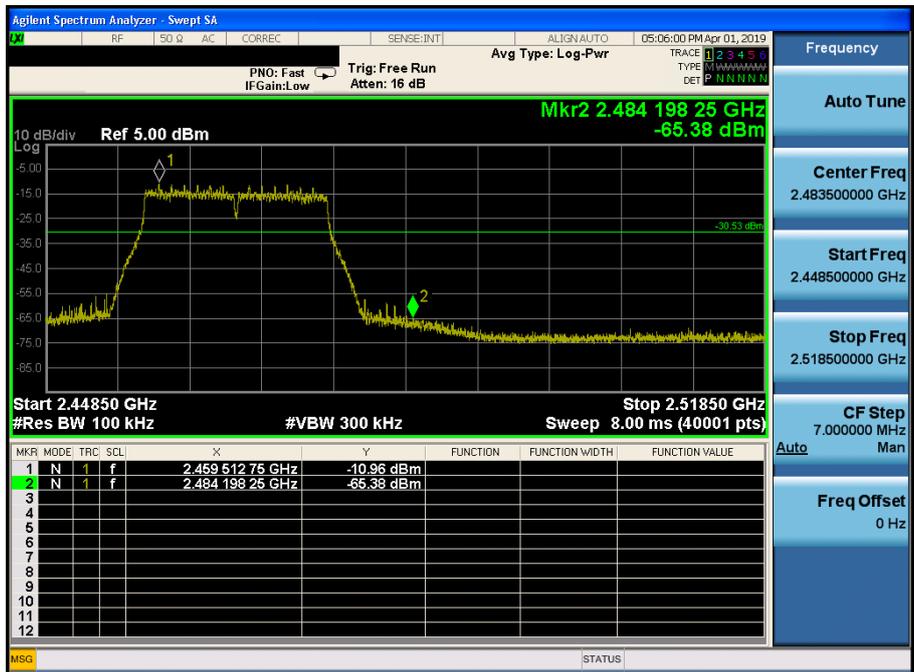


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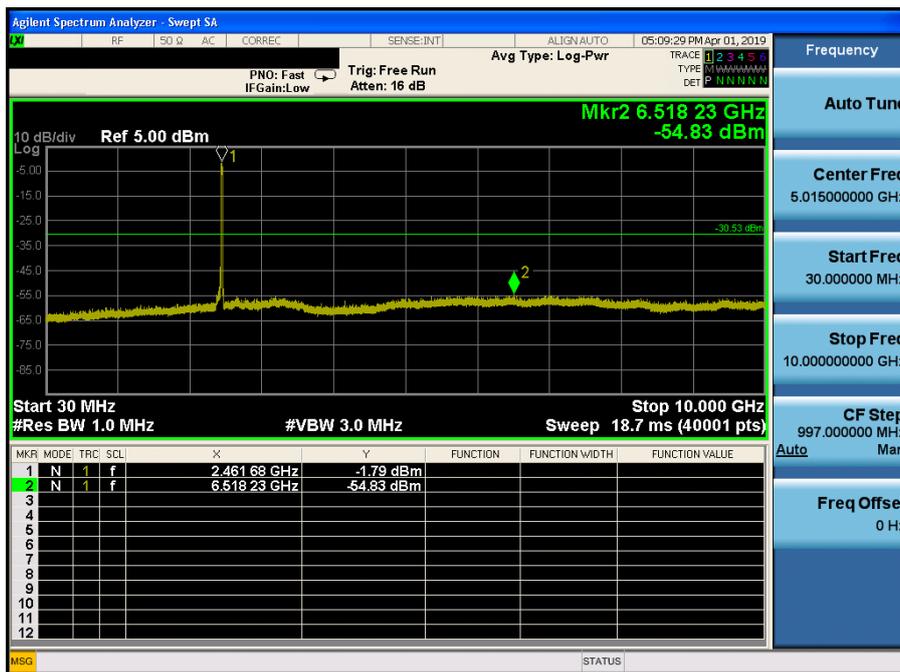
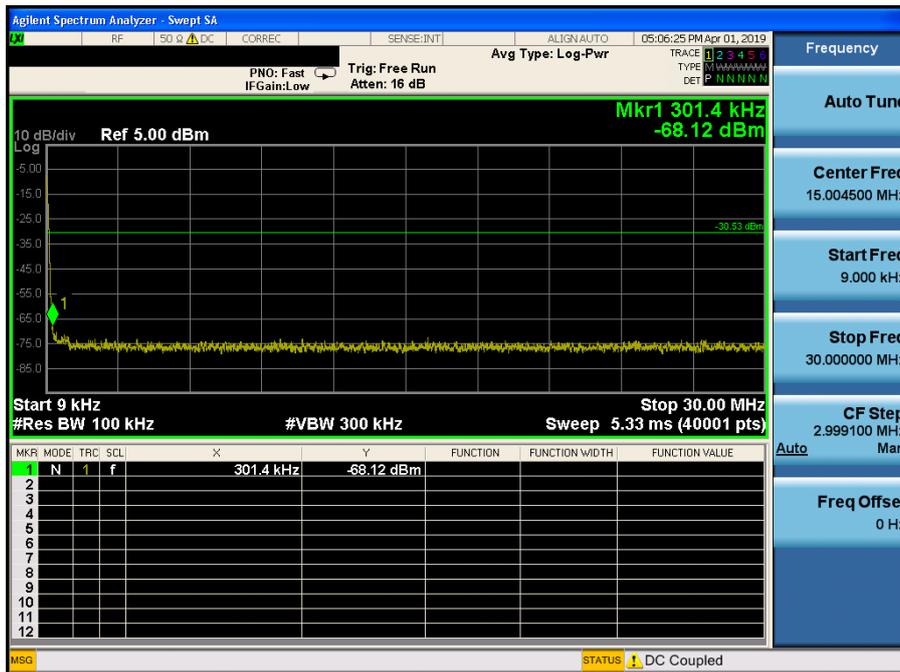
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High Band-edge



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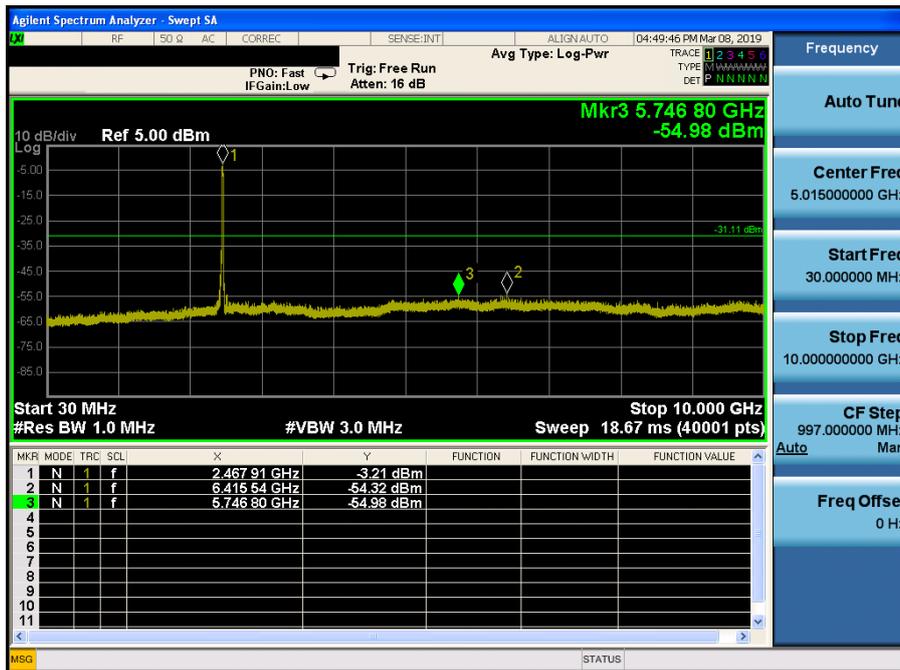
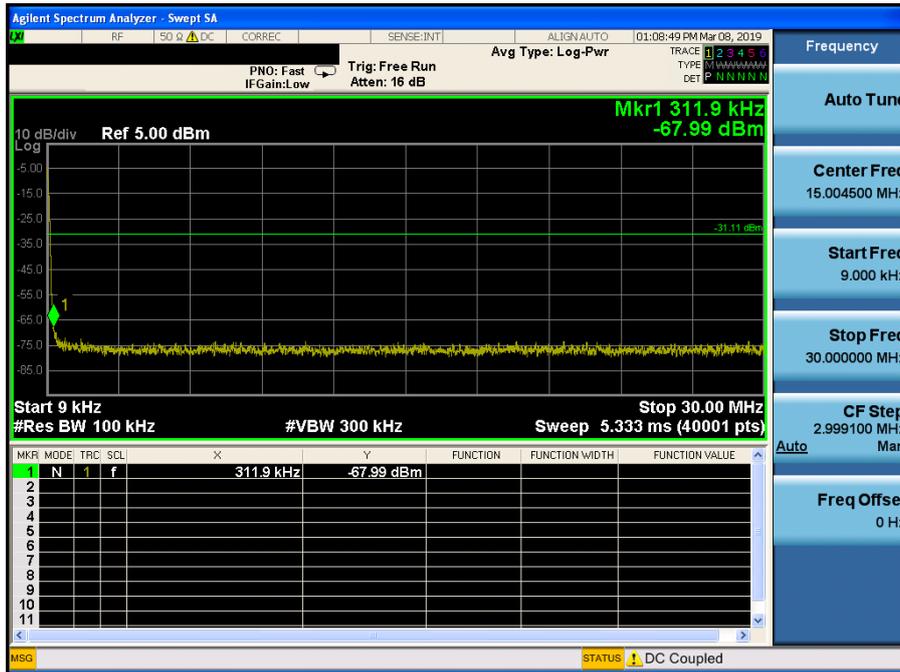


### Conducted Spurious Emissions





### Conducted Spurious Emissions

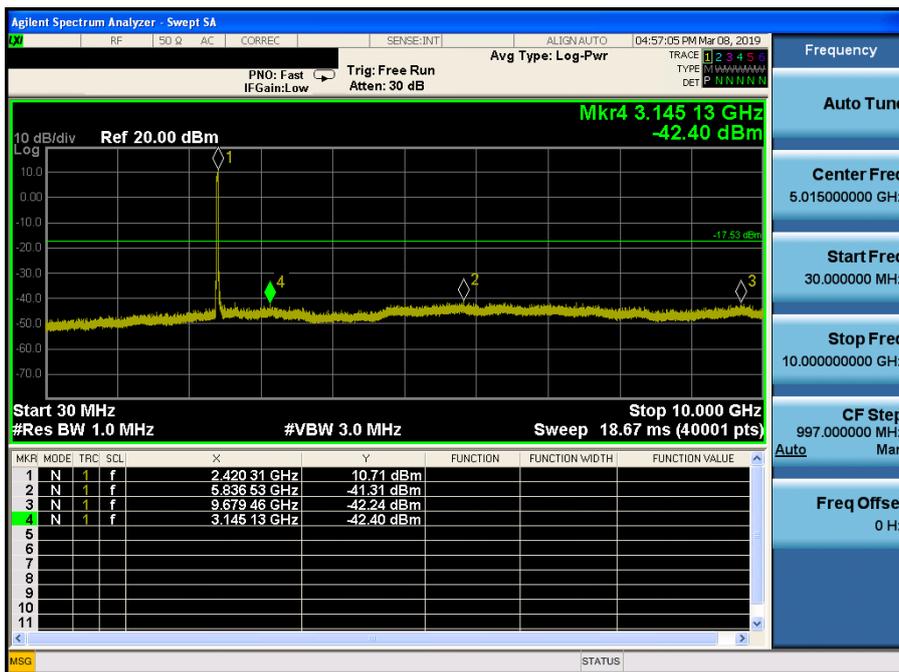
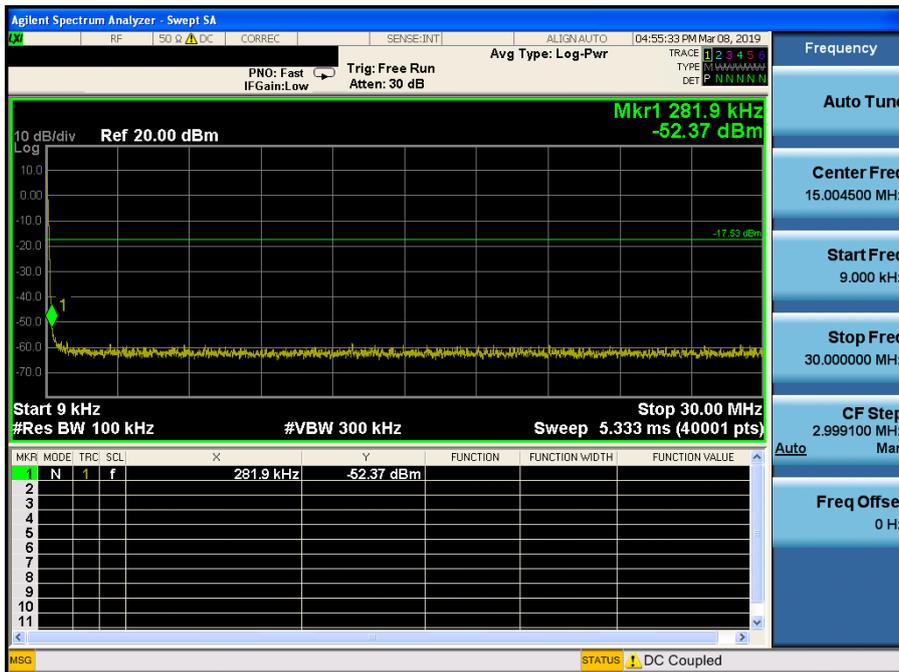


### Conducted Spurious Emissions





### Conducted Spurious Emissions

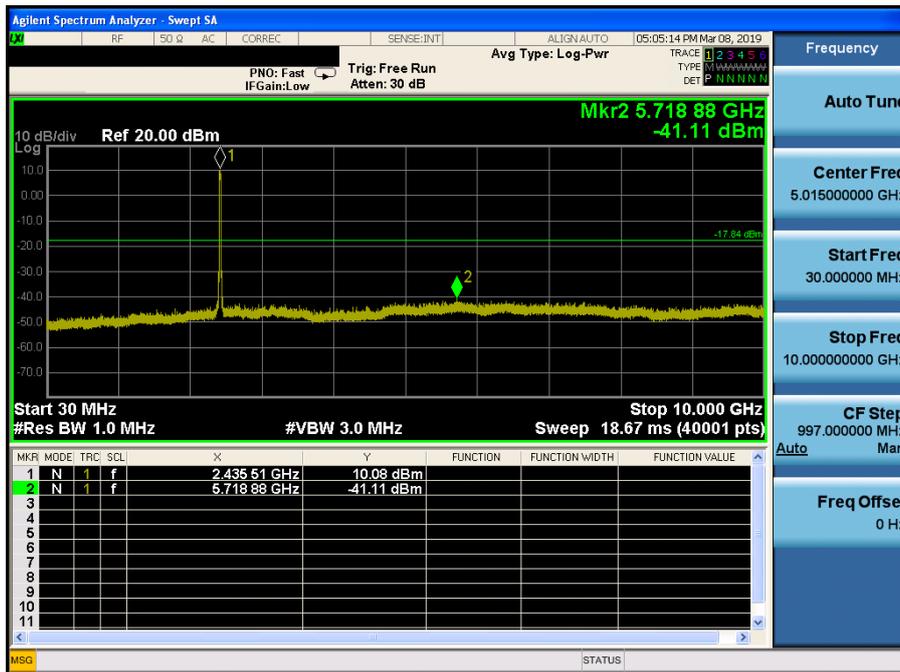


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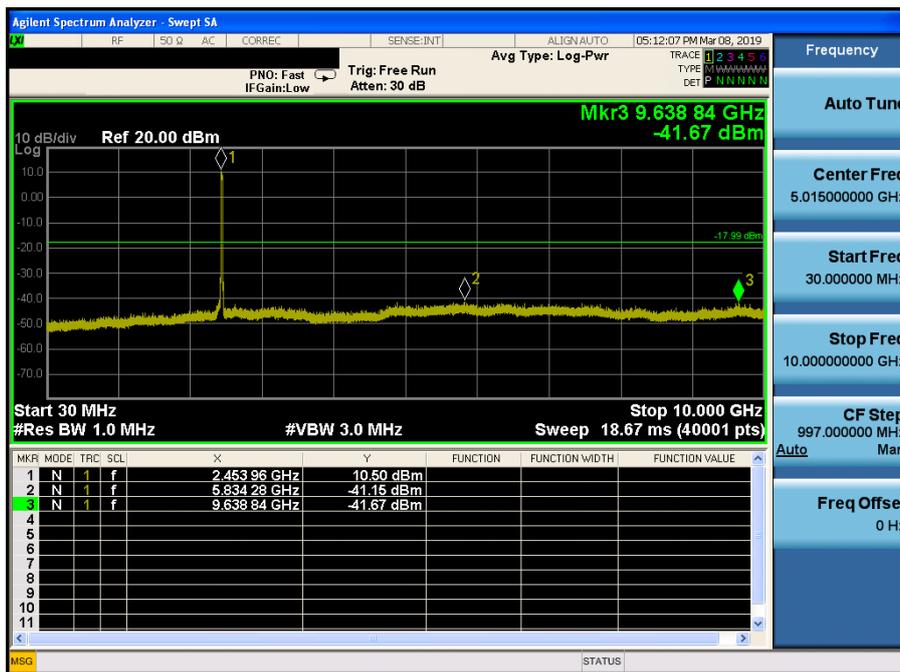
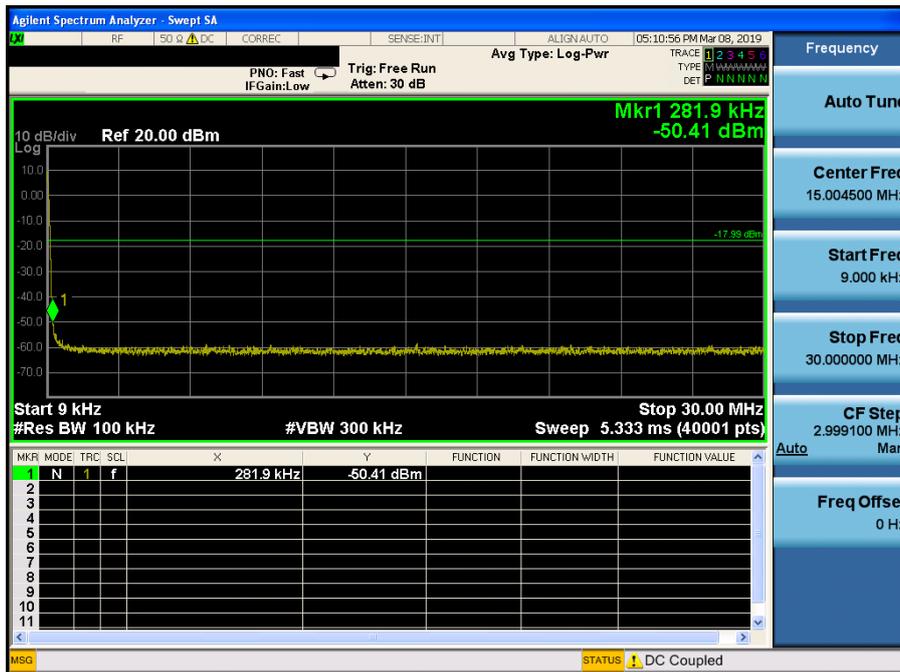


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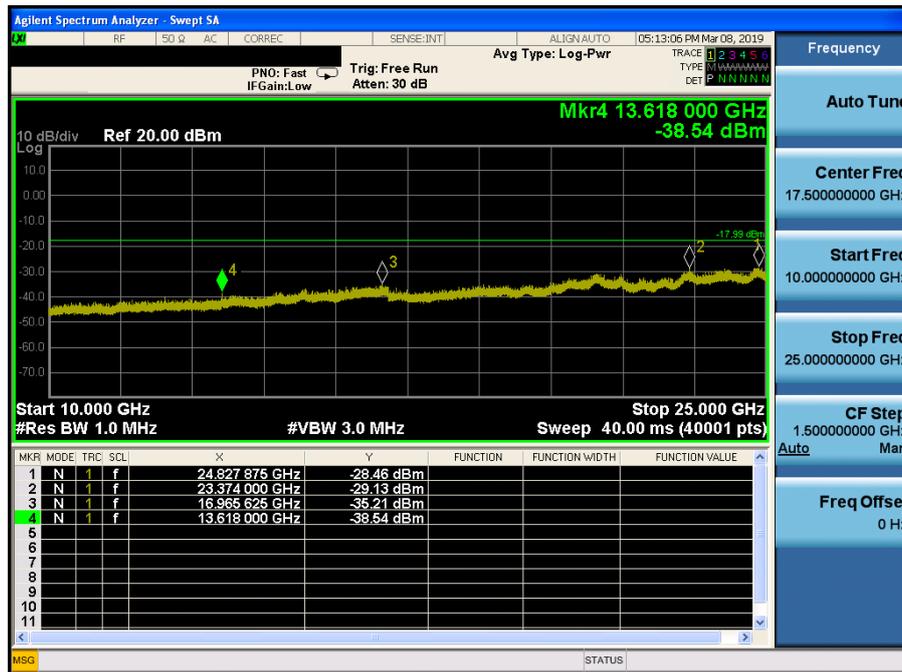




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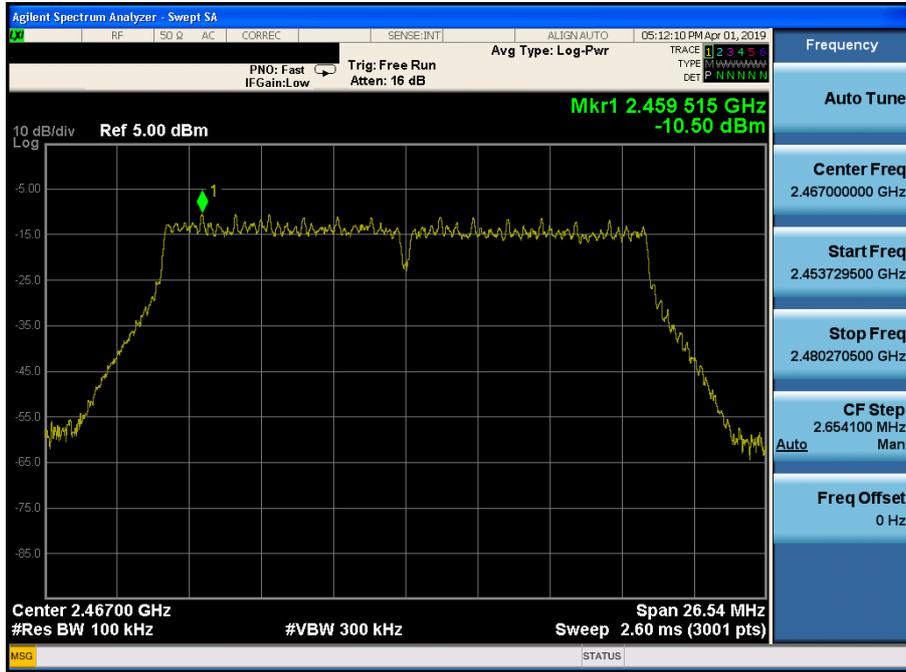


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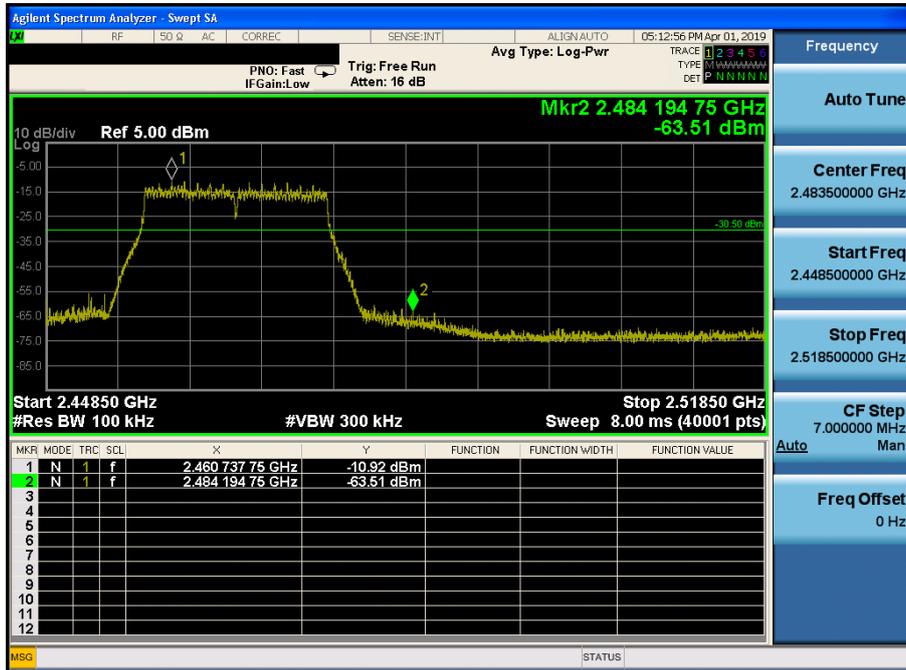


TM 7 & ANT 2 & 2467

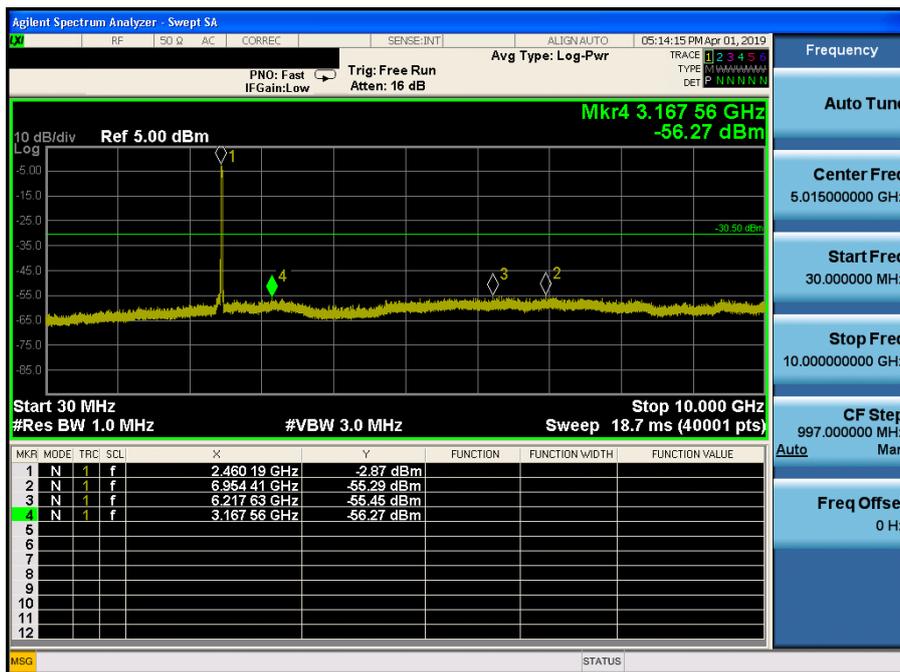
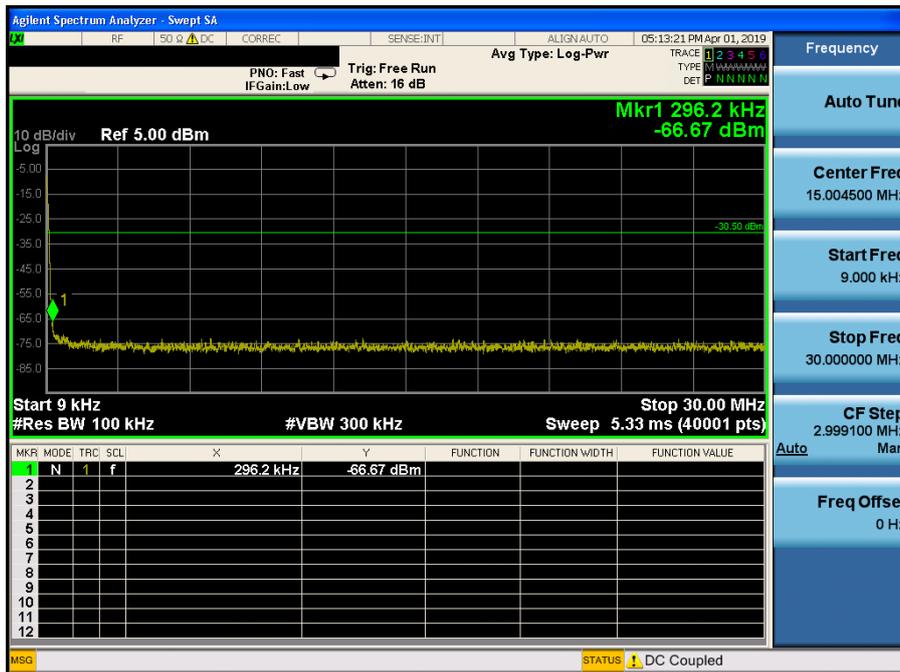
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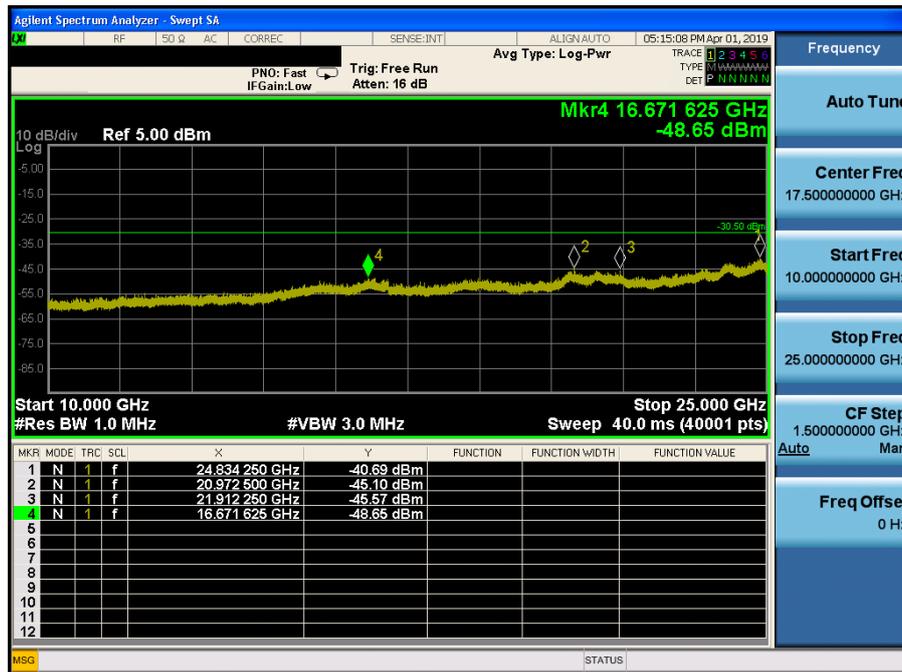
High Band-edge



### Conducted Spurious Emissions

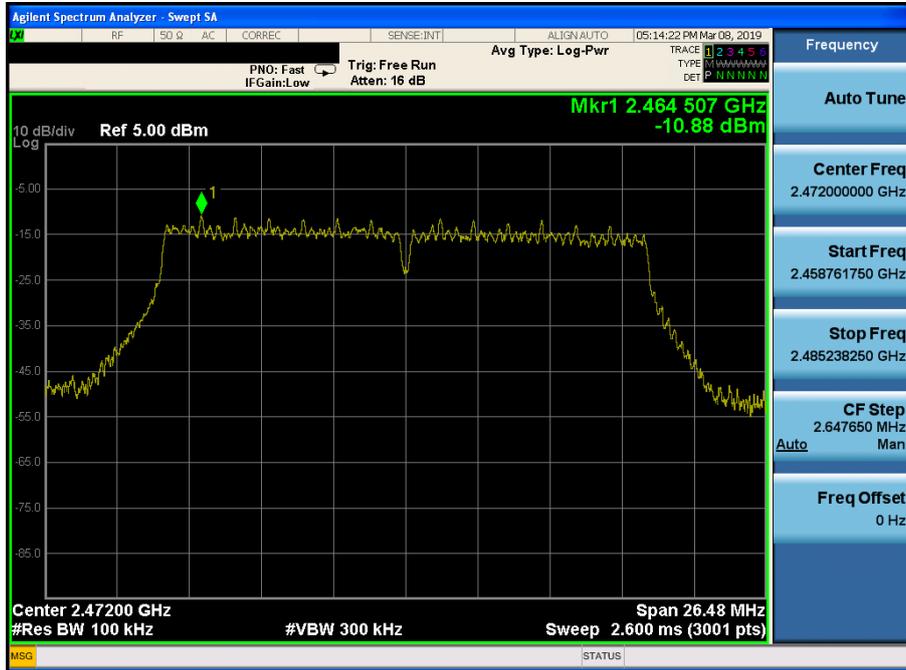


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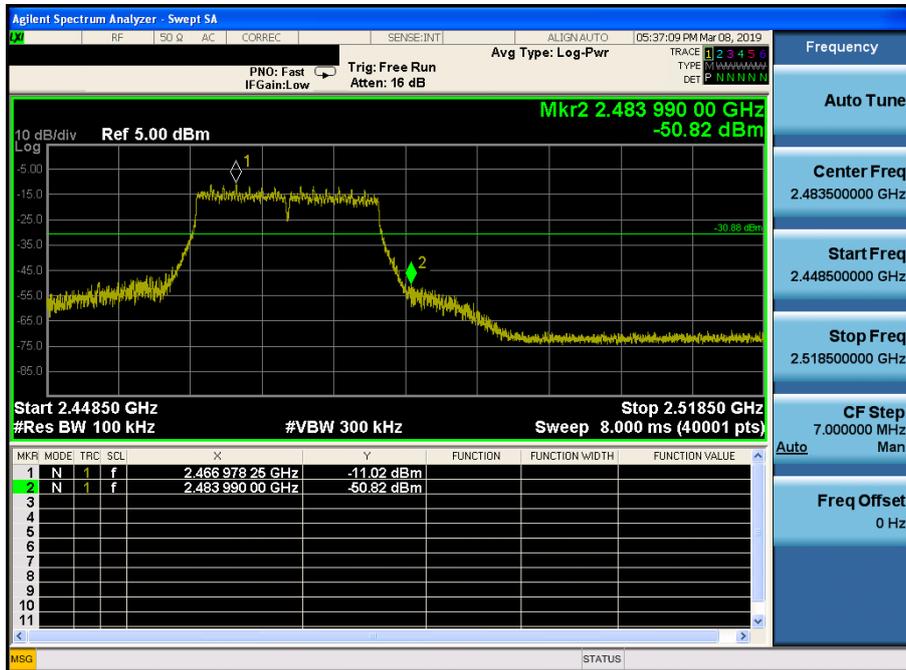


TM 7 & ANT 2 & 2472

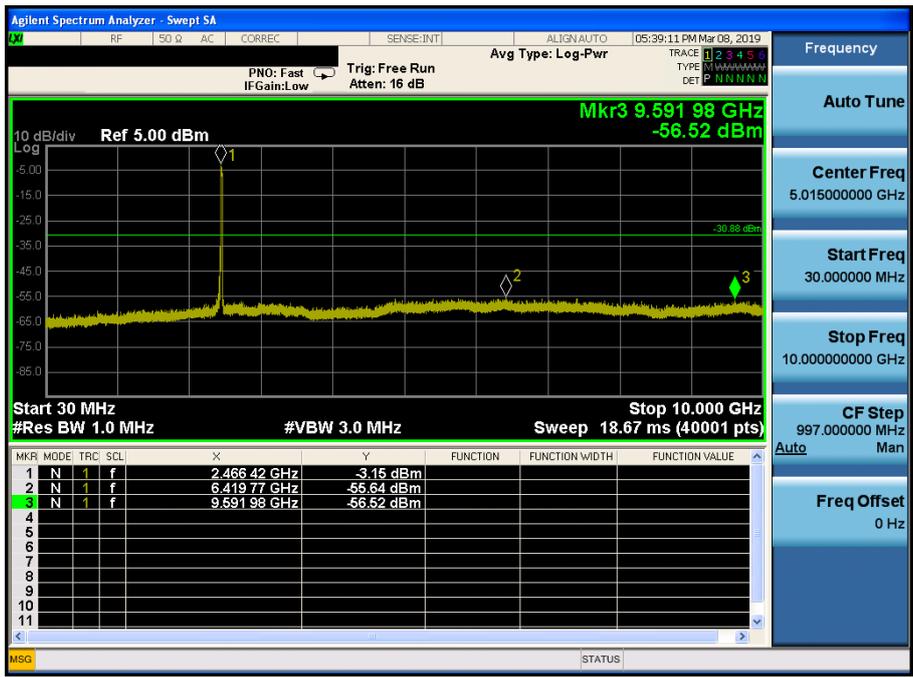
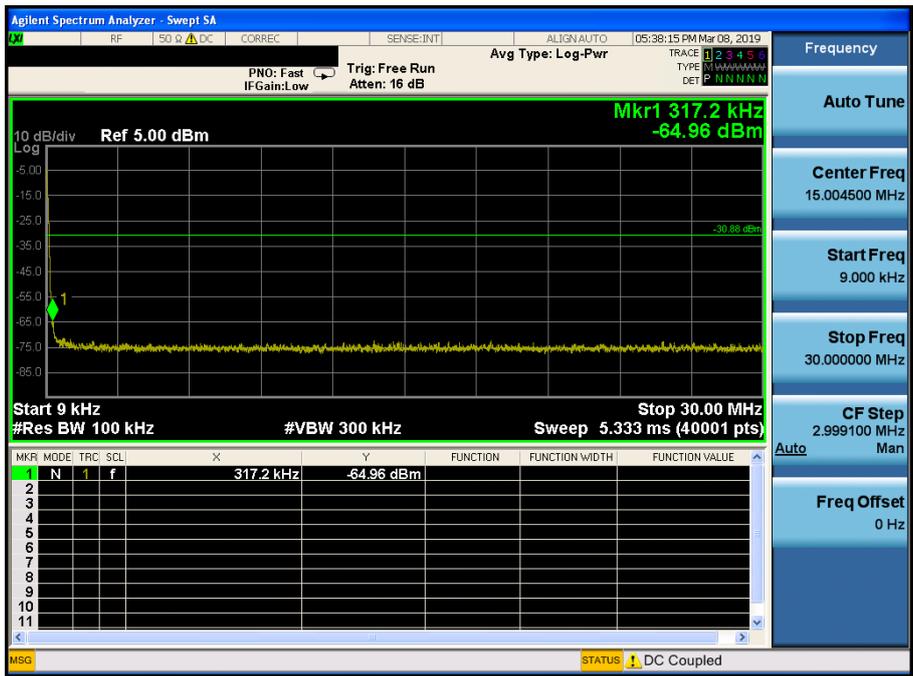
Reference



High Band-edge



### Conducted Spurious Emissions

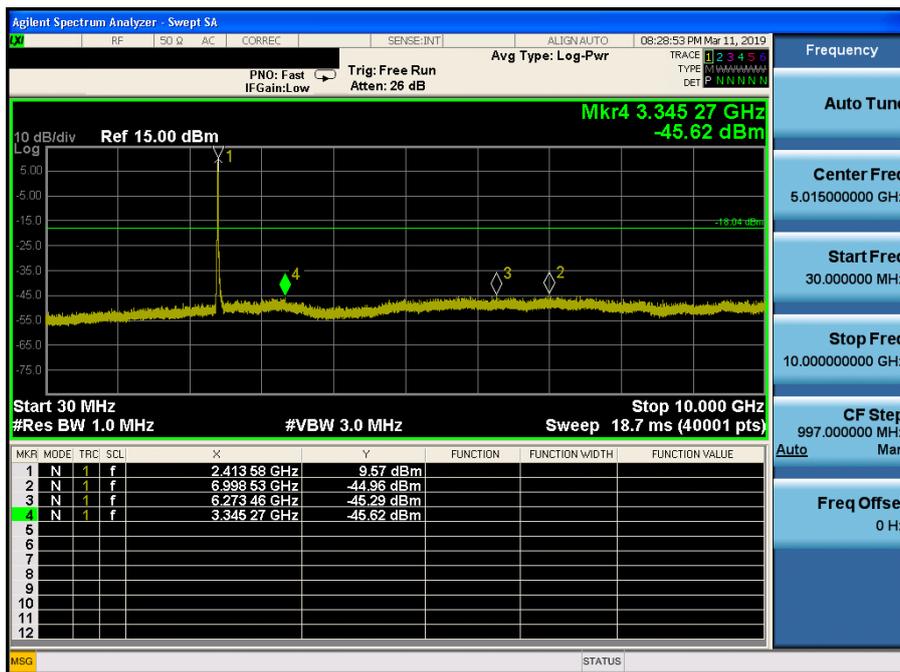
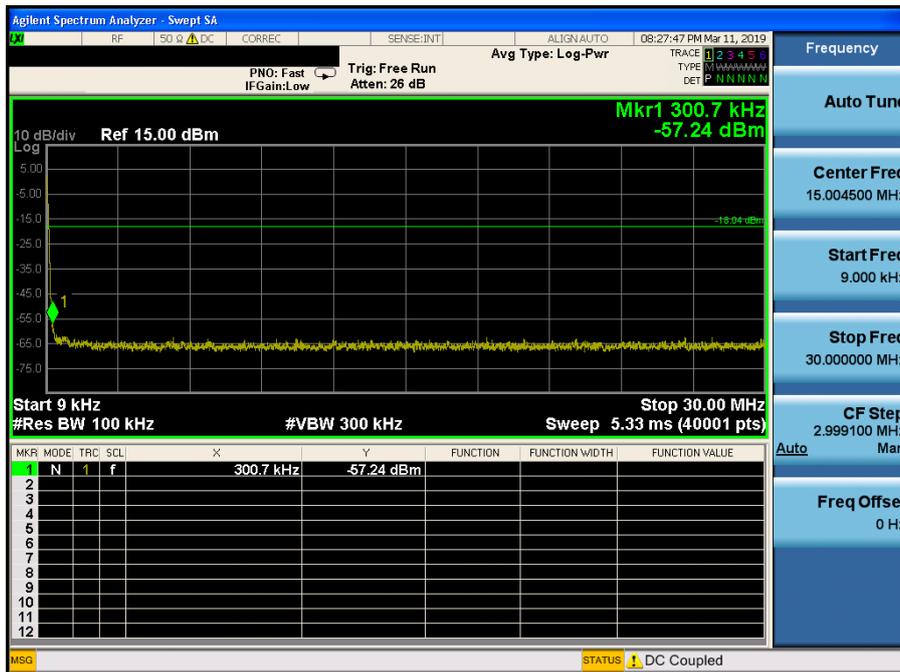


### Conducted Spurious Emissions





### Conducted Spurious Emissions

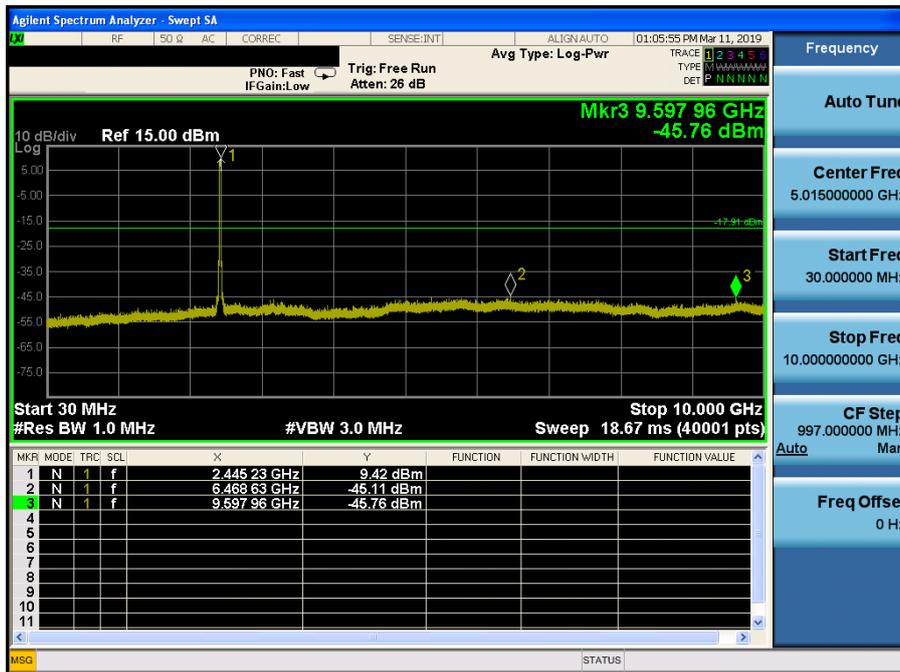


### Conducted Spurious Emissions





### Conducted Spurious Emissions



TM 8 & ANT 2 & 2462

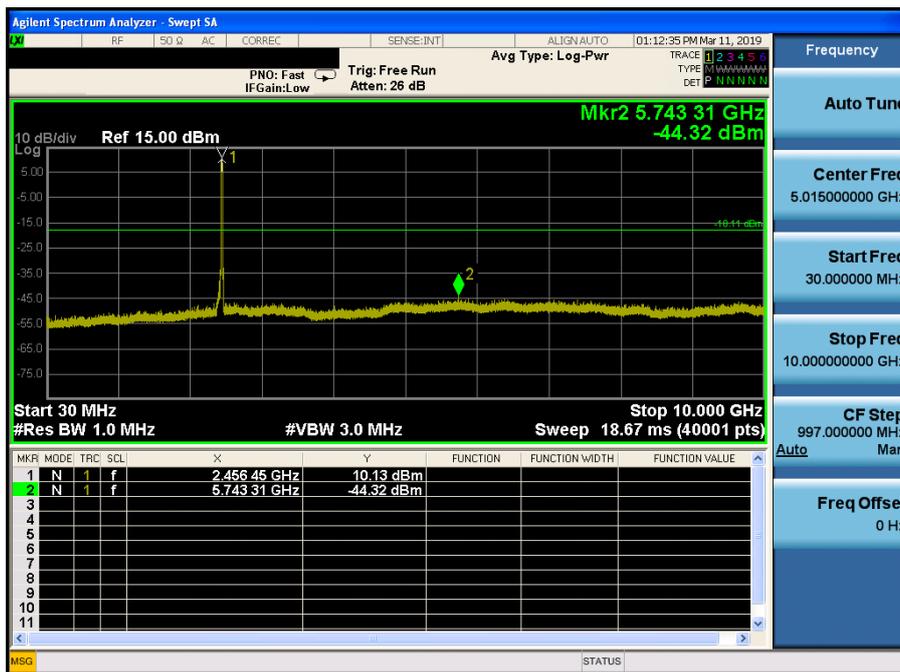
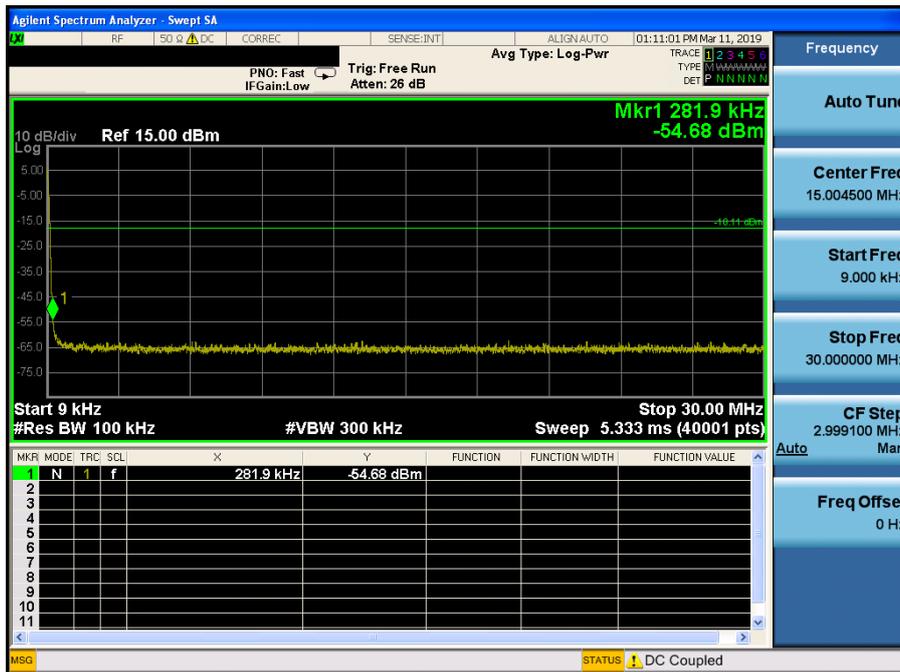
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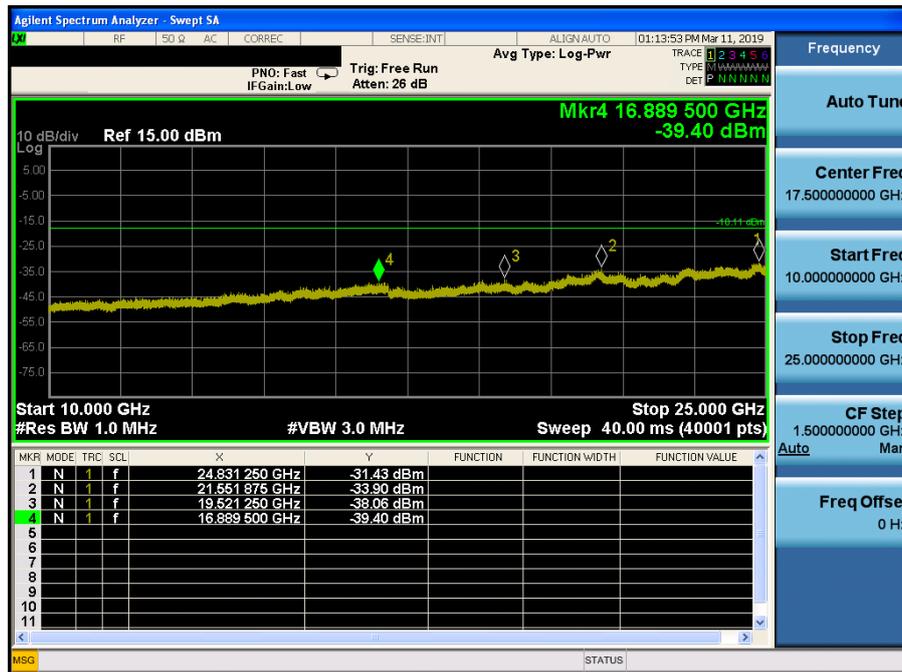
High Band-edge



### Conducted Spurious Emissions

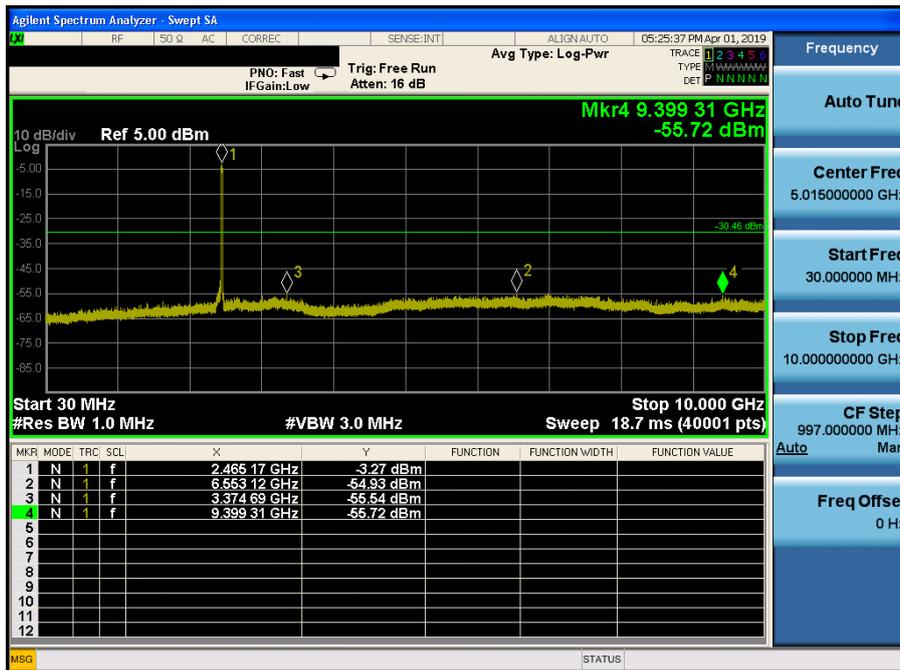
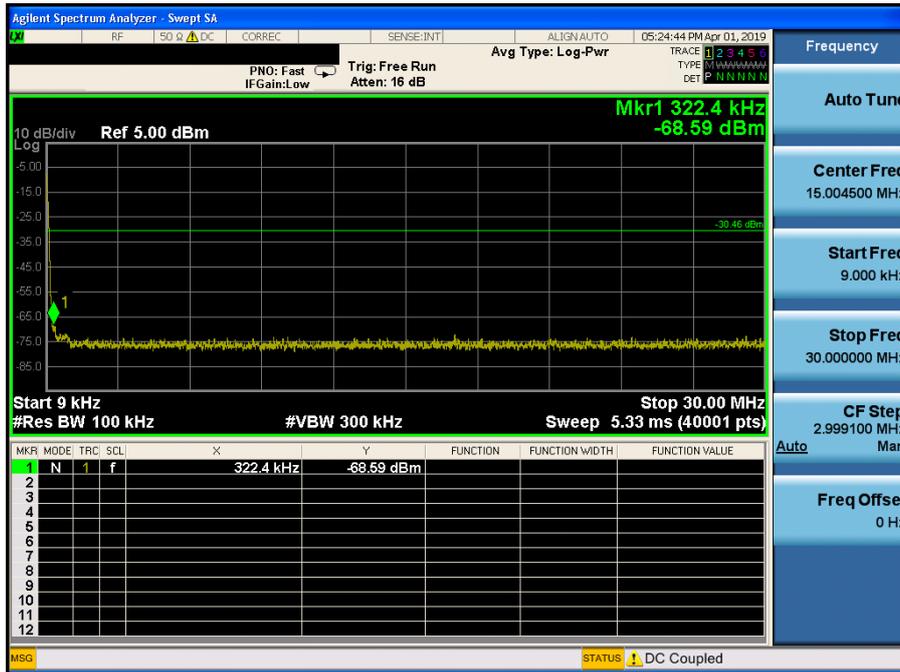


### Conducted Spurious Emissions





### Conducted Spurious Emissions

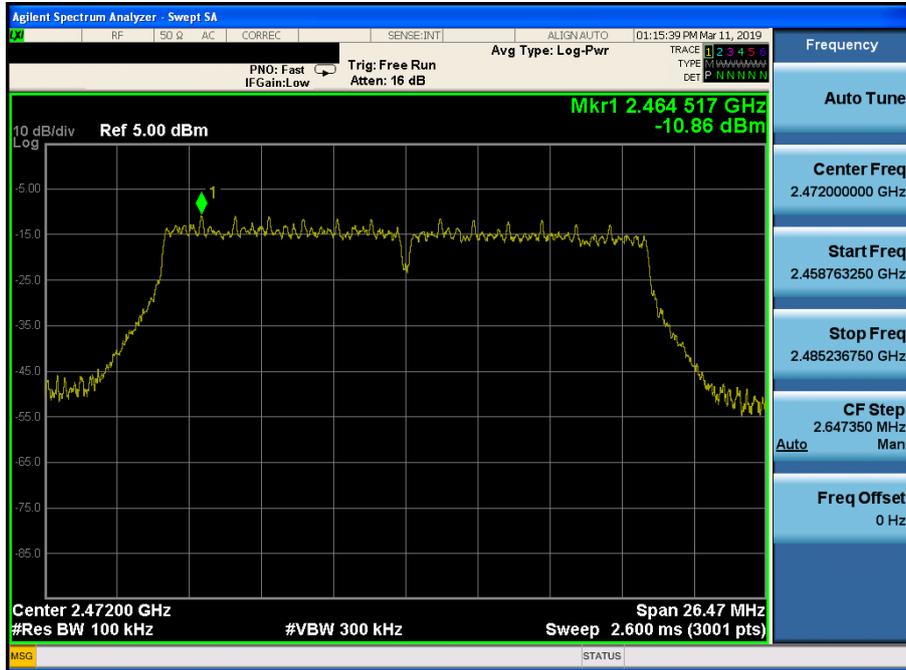


### Conducted Spurious Emissions



TM 8 & ANT 2 & 2472

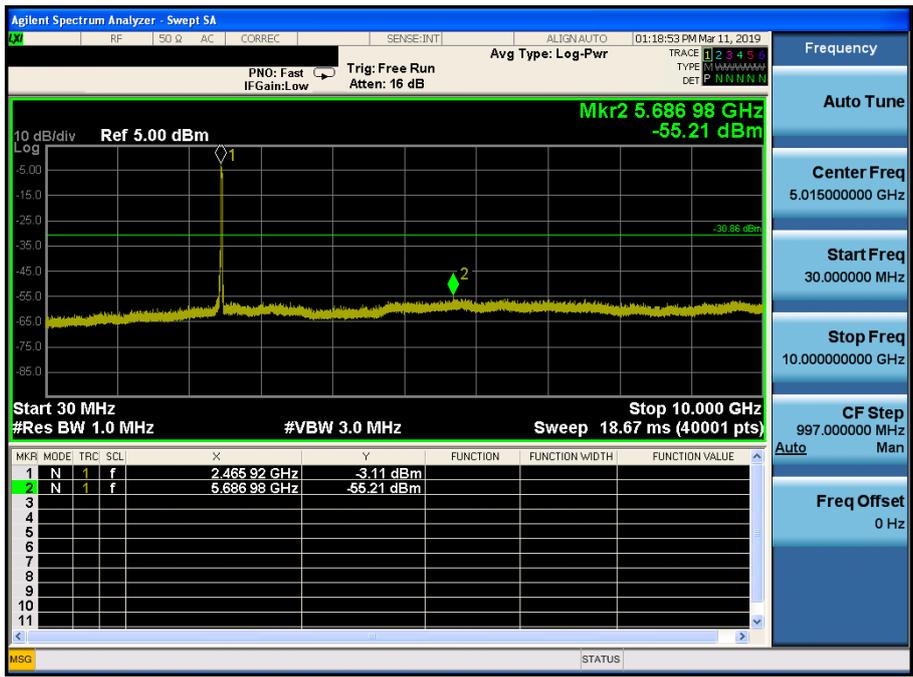
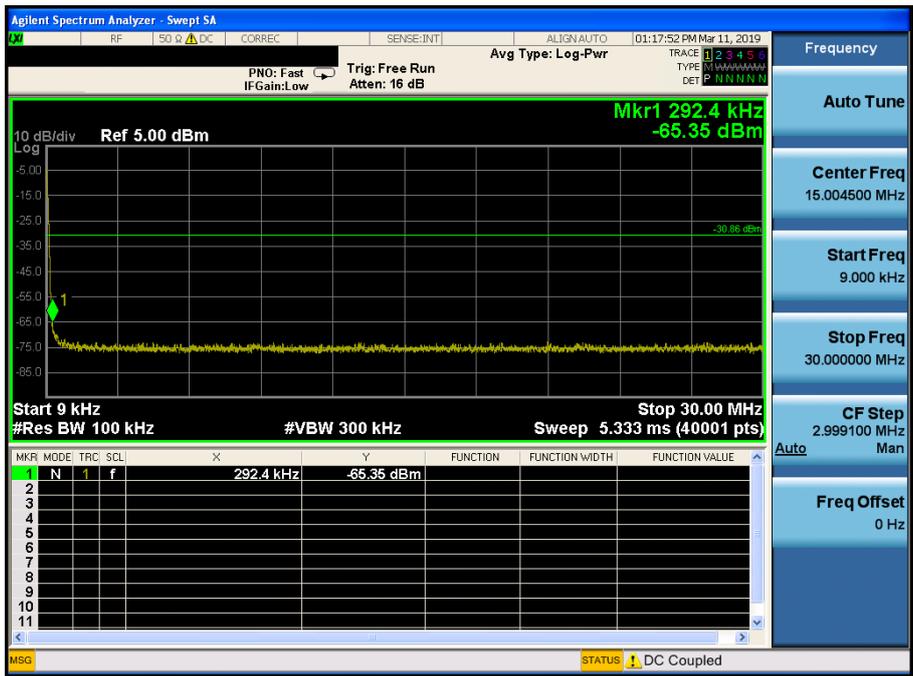
Reference



High Band-edge



### Conducted Spurious Emissions



### Conducted Spurious Emissions

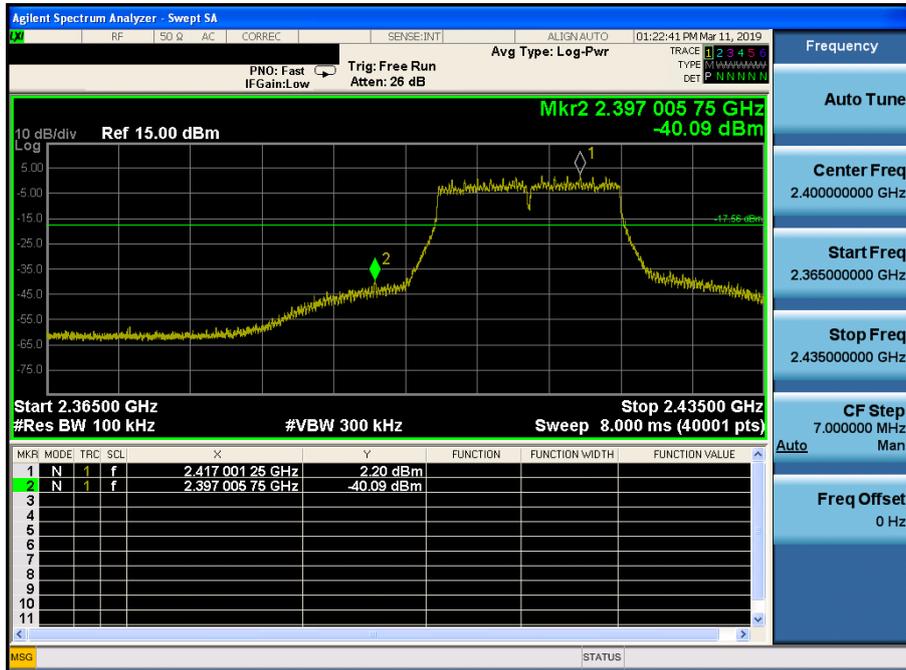


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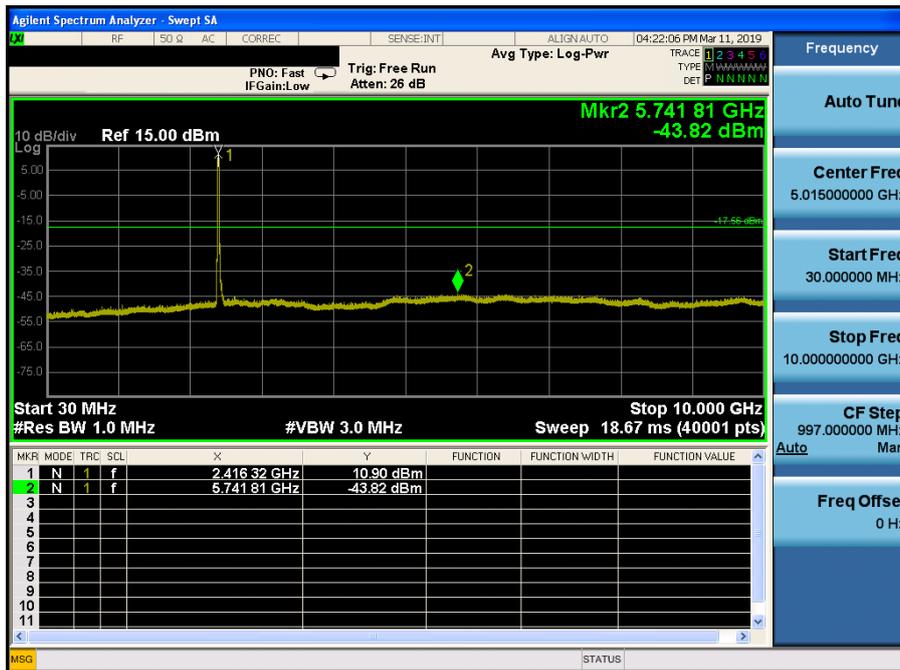
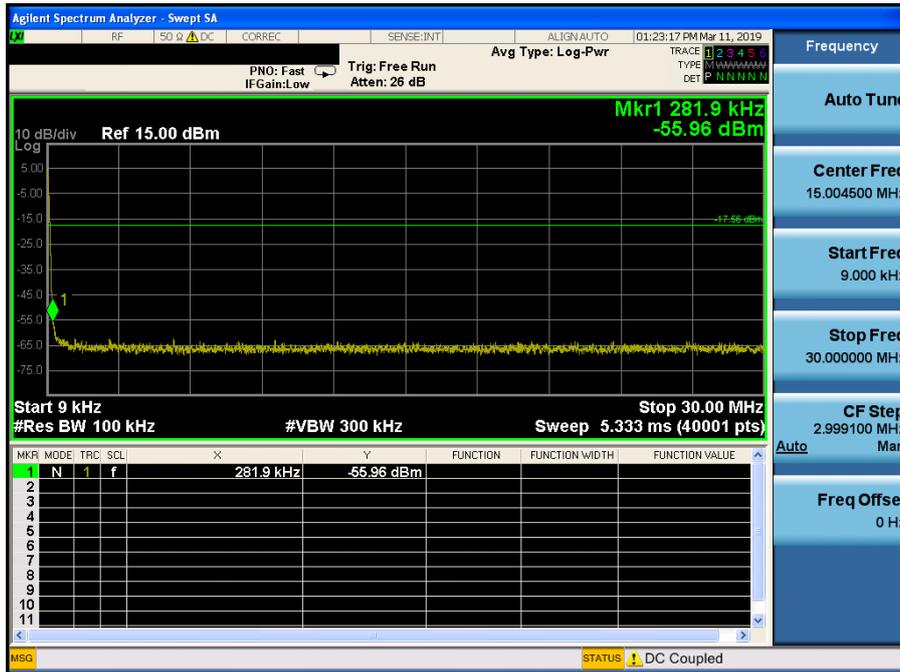
Reference



Low Band-edge



### Conducted Spurious Emissions



### Conducted Spurious Emissions

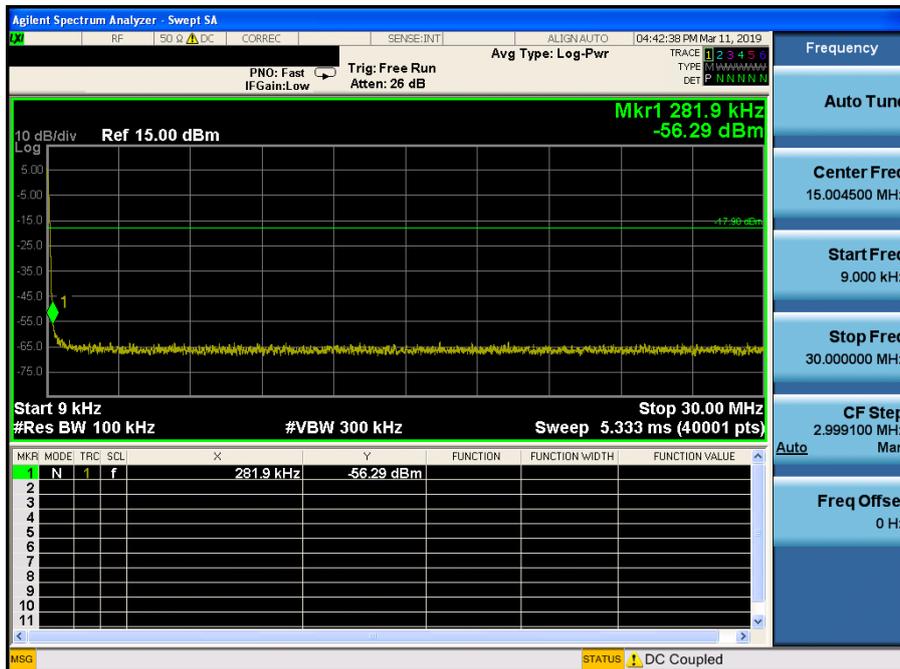


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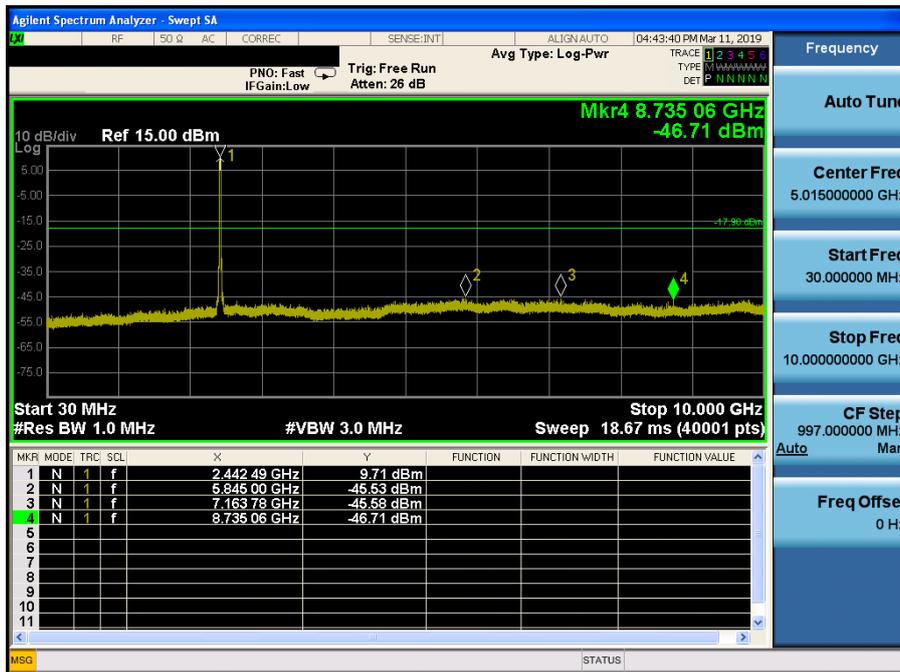
Reference



Conducted Spurious Emissions

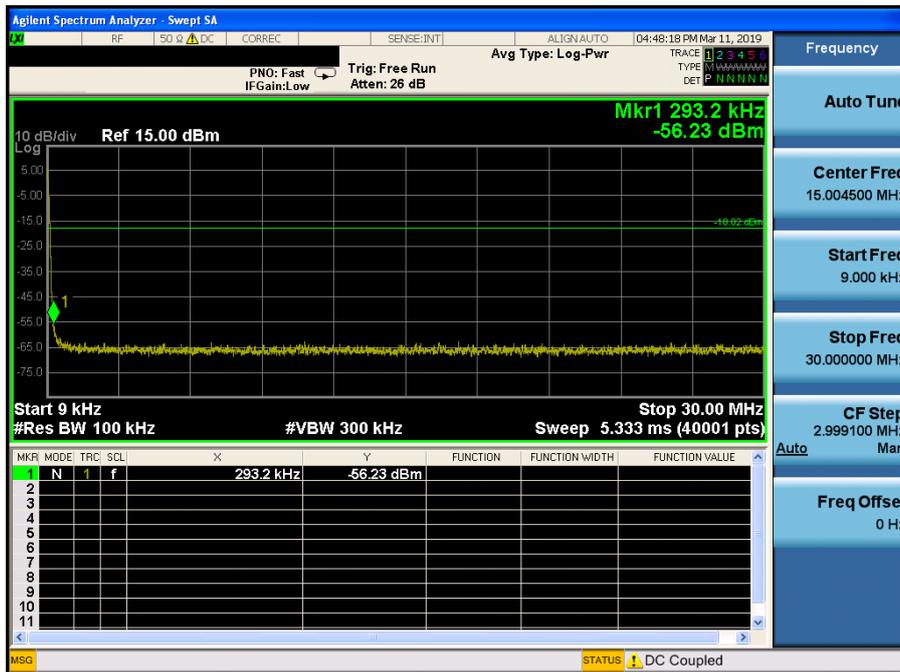


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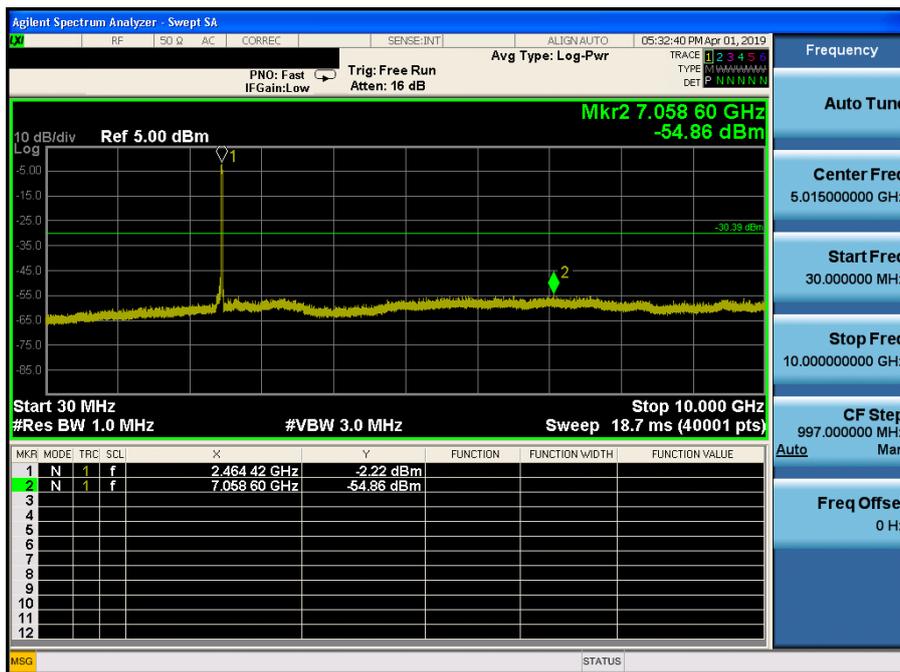
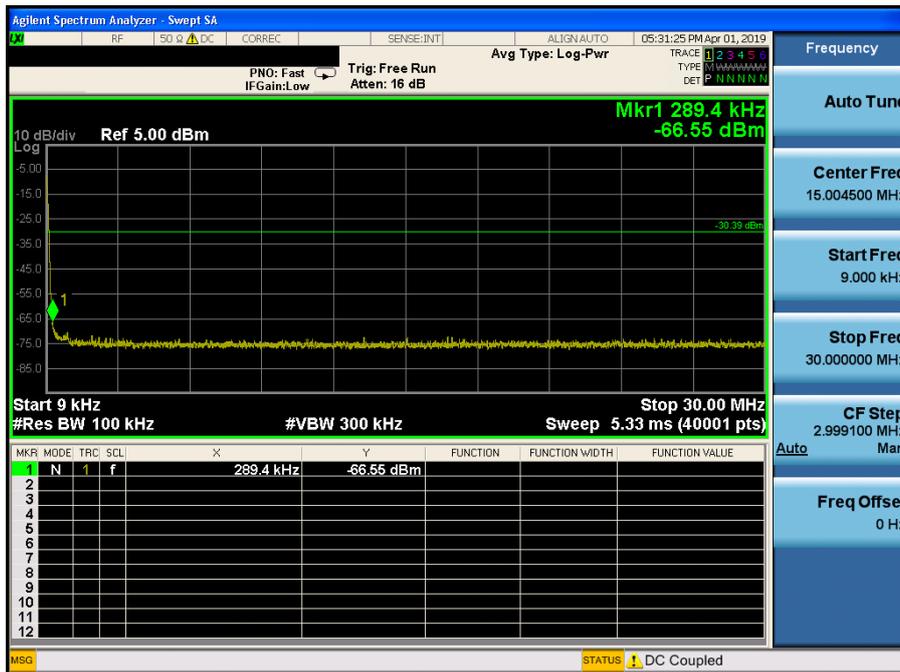
### Conducted Spurious Emissions







### Conducted Spurious Emissions

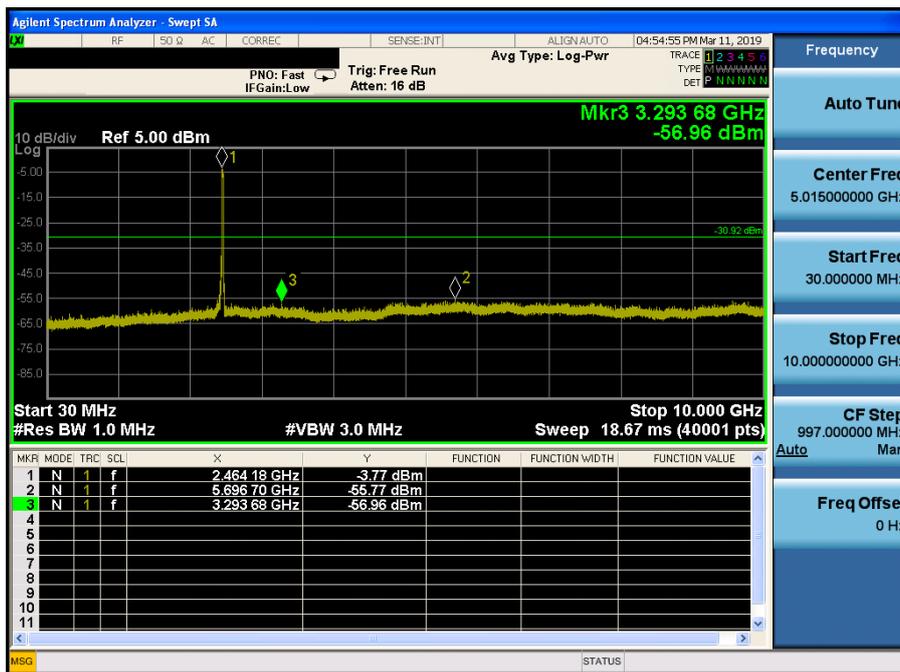
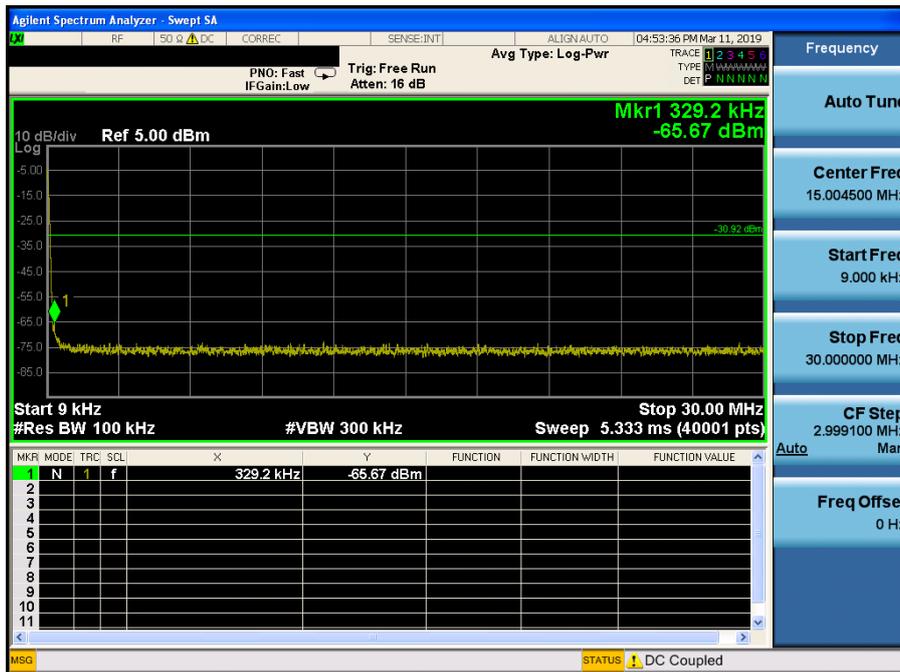


### Conducted Spurious Emissions





### Conducted Spurious Emissions



### Conducted Spurious Emissions



## 8.5 Radiated spurious emissions

### ■ Test Requirements and limit, §15.247(d), §15.205, §15.209

In any 100 kHz bandwidth outside the operating frequency band, the radio frequency power that is produced by the

adiator shall be at least 20 dB below that in the 100 KHz bandwidth within the band. In case the emission fall within the restricted band specified on 15.205(a) and (b), then the 15.209(a) limit in the table below has to be followed.

#### ▪ FCC Part 15.209(a) and (b)

Frequency (MHz)	Limit (uV/m)	Measurement Distance (meter)
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 – 30.0	30	30
30 ~ 88	100 **	3
88 ~ 216	150 **	3
216 ~ 960	200 **	3
Above 960	500	3

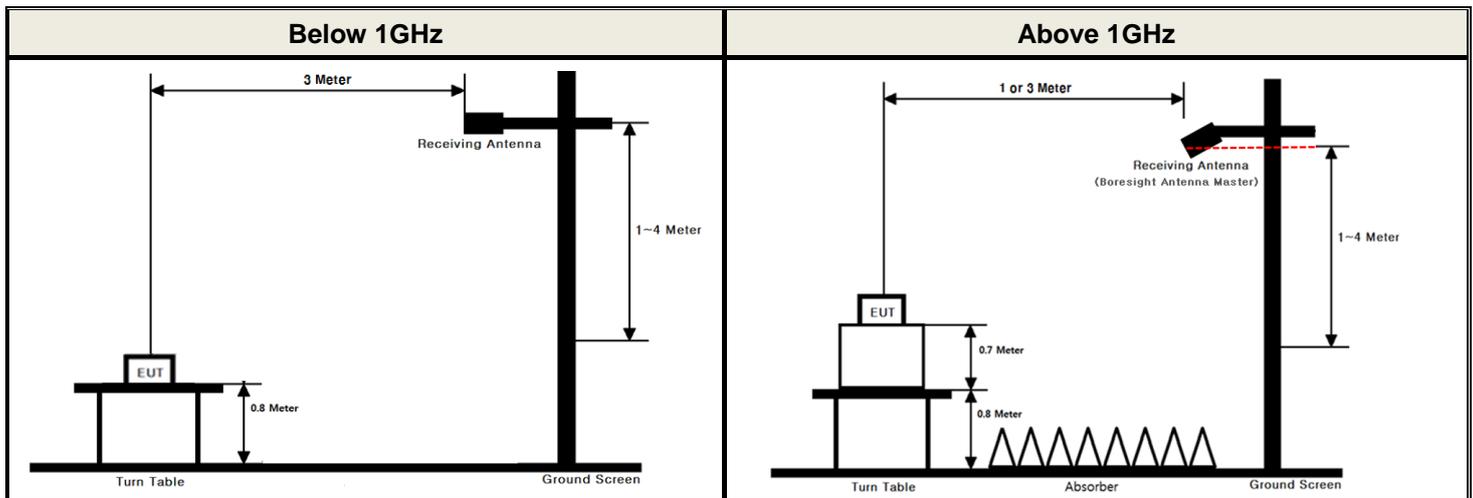
\*\* Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

#### ▪ FCC Part 15.205 (a): Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.1735 ~ 2.1905	12.51975 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	13.36 ~ 13.41	156.52525	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	16.42 ~ 16.423	156.7 ~ 156.9	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.69475 ~ 16.69525	162.0125 ~ 167.17	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.80425 ~ 16.80475	167.72 ~ 173.2	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	25.5 ~ 25.67	240 ~ 285	2655 ~ 2900		
8.291 ~ 8.294	37.5 ~ 38.25	322 ~ 335.4	3260 ~ 3267		
8.362 ~ 8.366	73 ~ 74.6	399.90 ~ 410	3332 ~ 3339		
8.37625 ~ 8.38675	74.8 ~ 75.2	608 ~ 614	3345.8 ~ 3358		
		960 ~ 1240	3600 ~ 4400		

▪ **FCC Part 15.205(b):** The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

## ■ Test Configuration



## ■ Test Procedure

1. The EUT is placed on a non-conductive table, emission measurements at below 1 GHz, the table height is 80 cm and above 1 GHz, the table height is 1.5 m.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 1 or 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

## ■ Measurement Instrument Setting for Radiated Emission Measurements.

The radiated emission was tested according to the section 6.3, 6.4, 6.5 and 6.6 of the ANSI C63.10-2013 with following settings.

### Peak Measurement

RBW = As specified in below table, VBW  $\geq 3 \times$  RBW, Sweep = Auto, Detector = Peak, Trace mode = Max Hold until the trace stabilizes.

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

### Average Measurement:

1. RBW = 1 MHz (unless otherwise specified).
2. VBW  $\geq 3 \times$  RBW.
3. Detector = RMS (Number of points  $\geq 2 \times$  Span / RBW)
4. Averaging type = power. (i.e., RMS)
5. Sweep time = auto.
6. Perform a trace average of at least 100 traces.
7. A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
  - 1) If power averaging (RMS) mode was used in step 4, then the applicable correction factor is  $10 \log(1/D)$ , where D is the duty cycle.
  - 2) If linear voltage averaging mode was used in step 4, then the applicable correction factor is  $20 \log(1/D)$ , where D is the duty cycle.
  - 3) If a specific emission is demonstrated to be continuous ( $\geq 98$  percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

### Duty Cycle Correction factor

Test Mode	Date rate	T <sub>on</sub> (ms)	T <sub>on+off</sub> (ms)	D = T <sub>on</sub> / (T <sub>on+off</sub> )	DCCF = 10 log(1/D) (dB)
TM 1	1 Mbps	12.2100	12.3000	0.9927	NA
TM 2	36 Mbps	-	-	-	-
TM 3	MCS 4	-	-	-	-
TM 4	NSS1 MCS 4	-	-	-	-
TM 5	36 Mbps	0.3555	0.3935	0.9034	0.45
TM 6	MCS 4	0.3460	0.3855	0.8975	0.47
TM 7	NSS1 MCS 4	0.3515	0.3890	0.9036	0.45
TM 8	MCS 13	0.1543	0.2297	0.6717	1.73
TM 9	NSS2 MCS 4	0.1998	0.2713	0.7365	1.33

Note1: Where, T= Transmission duration / D= Duty cycle

Note2: Please refer to the appendix I for duty cycle plots.

## ■ Test Results: **Comply**

Please refer to next page for data table and the appendix I for worst data plots.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 1 Normal**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.14	H	X	PK	52.24	2.76	N/A	N/A	55.00	74.00	19.00
	2389.62	H	X	AV	43.10	2.77	N/A	N/A	45.87	54.00	8.13
	4824.19	V	Y	PK	50.86	1.64	N/A	N/A	52.50	74.00	21.50
	4823.65	V	Y	AV	40.17	1.64	N/A	N/A	41.81	54.00	12.19
2437	4874.38	V	Y	PK	50.46	1.62	N/A	N/A	52.08	74.00	21.92
	4874.37	V	Y	AV	39.79	1.62	N/A	N/A	41.41	54.00	12.59
2462	2483.80	H	X	PK	52.52	3.26	N/A	N/A	55.78	74.00	18.22
	2483.86	H	X	AV	42.81	3.27	N/A	N/A	46.08	54.00	7.92
	4924.36	V	Y	PK	50.00	1.68	N/A	N/A	51.68	74.00	22.32
	4923.71	V	Y	AV	39.94	1.68	N/A	N/A	41.62	54.00	12.38
2467	2483.58	H	X	PK	51.66	3.26	N/A	N/A	54.92	74.00	19.08
	2483.64	H	X	AV	41.44	3.26	N/A	N/A	44.70	54.00	9.30
	4933.72	V	Y	PK	50.54	1.70	N/A	N/A	52.24	74.00	21.76
	4934.14	V	Y	AV	39.24	1.70	N/A	N/A	40.94	54.00	13.06
2472	2483.77	H	X	PK	52.09	3.26	N/A	N/A	55.35	74.00	18.65
	2483.68	H	X	AV	41.71	3.26	N/A	N/A	44.97	54.00	9.03
	4943.76	V	Y	PK	50.81	1.73	N/A	N/A	52.54	74.00	21.46
	4943.99	V	Y	AV	39.90	1.73	N/A	N/A	41.63	54.00	12.37

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 5 Normal**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.61	H	X	PK	58.26	2.77	N/A	N/A	61.03	74.00	12.97
	2389.28	H	X	AV	45.88	2.76	0.45	N/A	49.09	54.00	4.91
	4824.45	V	Y	PK	50.55	1.64	N/A	N/A	52.19	74.00	21.81
	4823.57	V	Y	AV	39.54	1.64	0.45	N/A	41.63	54.00	12.37
2437	4873.67	V	Y	PK	50.55	1.62	N/A	N/A	52.17	74.00	21.83
	4873.54	V	Y	AV	39.63	1.62	0.45	N/A	41.70	54.00	12.30
2462	2483.53	H	X	PK	55.03	3.26	N/A	N/A	58.29	74.00	15.71
	2483.58	H	X	AV	44.26	3.26	0.45	N/A	47.97	54.00	6.03
	4923.84	V	Y	PK	50.71	1.68	N/A	N/A	52.39	74.00	21.61
	4924.26	V	Y	AV	39.55	1.68	0.45	N/A	41.68	54.00	12.32
2467	2483.90	H	X	PK	51.60	3.27	N/A	N/A	54.87	74.00	19.13
	2483.75	H	X	AV	41.63	3.27	0.45	N/A	45.35	54.00	8.65
	4933.71	V	Y	PK	50.62	1.70	N/A	N/A	52.32	74.00	21.68
	4933.54	V	Y	AV	39.43	1.70	0.45	N/A	41.58	54.00	12.42
2472	2483.54	H	X	PK	53.59	3.26	N/A	N/A	56.85	74.00	17.15
	2483.56	H	X	AV	42.29	3.26	0.45	N/A	46.00	54.00	8.00
	4944.29	V	Y	PK	50.35	1.73	N/A	N/A	52.08	74.00	21.92
	4944.11	V	Y	AV	39.31	1.73	0.45	N/A	41.49	54.00	12.51

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  
 $\text{Margin} = \text{Limit} - \text{Result}$  /  $\text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF}$  /  $\text{T.F} = \text{AF} + \text{CL} - \text{AG}$   
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 6 Normal**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.68	H	X	PK	58.11	2.77	N/A	N/A	60.88	74.00	13.12
	2389.80	H	X	AV	46.60	2.77	0.47	N/A	49.84	54.00	4.16
	4824.45	V	Y	PK	50.96	1.64	N/A	N/A	52.60	74.00	21.40
	4823.69	V	Y	AV	39.87	1.64	0.47	N/A	41.98	54.00	12.02
2437	4873.72	V	Y	PK	51.04	1.62	N/A	N/A	52.66	74.00	21.34
	4873.85	V	Y	AV	39.54	1.62	0.47	N/A	41.63	54.00	12.37
2462	2483.90	H	X	PK	53.82	3.27	N/A	N/A	57.09	74.00	16.91
	2483.89	H	X	AV	44.26	3.27	0.47	N/A	48.00	54.00	6.00
	4923.72	V	Y	PK	49.72	1.68	N/A	N/A	51.40	74.00	22.60
	4923.77	V	Y	AV	39.31	1.68	0.47	N/A	41.46	54.00	12.54
2467	2483.84	H	X	PK	51.22	3.26	N/A	N/A	54.48	74.00	19.52
	2483.70	H	X	AV	41.49	3.26	0.47	N/A	45.22	54.00	8.78
	4933.79	V	Y	PK	50.20	1.70	N/A	N/A	51.90	74.00	22.10
	4933.59	V	Y	AV	39.23	1.70	0.47	N/A	41.40	54.00	12.60
2472	2483.64	H	X	PK	52.82	3.26	N/A	N/A	56.08	74.00	17.92
	2483.51	H	X	AV	41.83	3.26	0.47	N/A	45.56	54.00	8.44
	4944.08	V	Y	PK	50.77	1.73	N/A	N/A	52.50	74.00	21.50
	4943.63	V	Y	AV	39.60	1.73	0.47	N/A	41.80	54.00	12.20

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  
 $\text{Margin} = \text{Limit} - \text{Result}$  /  $\text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF}$  /  $\text{T.F} = \text{AF} + \text{CL} - \text{AG}$   
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 7 Normal**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.36	H	X	PK	56.79	2.76	N/A	N/A	59.55	74.00	14.45
	2389.58	H	X	AV	45.54	2.77	0.45	N/A	48.76	54.00	5.24
	4823.85	V	Y	PK	50.13	1.64	N/A	N/A	51.77	74.00	22.23
	4823.54	V	Y	AV	39.47	1.64	0.45	N/A	41.56	54.00	12.44
2437	4874.22	V	Y	PK	50.98	1.62	N/A	N/A	52.60	74.00	21.40
	4874.00	V	Y	AV	39.84	1.62	0.45	N/A	41.91	54.00	12.09
2462	2483.82	H	X	PK	54.45	3.26	N/A	N/A	57.71	74.00	16.29
	2483.70	H	X	AV	44.43	3.26	0.45	N/A	48.14	54.00	5.86
	4923.55	V	Y	PK	49.75	1.68	N/A	N/A	51.43	74.00	22.57
	4924.06	V	Y	AV	39.30	1.68	0.45	N/A	41.43	54.00	12.57
2467	2483.76	H	X	PK	51.92	3.26	N/A	N/A	55.18	74.00	18.82
	2483.61	H	X	AV	41.48	3.26	0.45	N/A	45.19	54.00	8.81
	4933.55	V	Y	PK	50.25	1.70	N/A	N/A	51.95	74.00	22.05
	4934.26	V	Y	AV	39.13	1.70	0.45	N/A	41.28	54.00	12.72
2472	2483.53	H	X	PK	53.92	3.26	N/A	N/A	57.18	74.00	16.82
	2483.67	H	X	AV	42.04	3.26	0.45	N/A	45.75	54.00	8.25
	4944.03	V	Y	PK	50.23	1.73	N/A	N/A	51.96	74.00	22.04
	4943.67	V	Y	AV	39.54	1.73	0.45	N/A	41.72	54.00	12.28

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 8 Normal**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.33	H	Y	PK	58.12	2.77	N/A	N/A	60.89	74.00	13.11
	2389.83	H	Y	AV	45.91	2.77	1.73	N/A	50.41	54.00	3.59
	4824.12	V	Y	PK	50.82	1.64	N/A	N/A	52.46	74.00	21.54
	4824.47	V	Y	AV	39.35	1.64	1.73	N/A	42.72	54.00	11.28
2437	4873.52	V	Y	PK	49.95	1.62	N/A	N/A	51.57	74.00	22.43
	4873.74	V	Y	AV	39.66	1.62	1.73	N/A	43.01	54.00	10.99
2462	2483.91	H	Y	PK	55.63	3.27	N/A	N/A	58.90	74.00	15.10
	2483.97	H	Y	AV	44.09	3.27	1.73	N/A	49.09	54.00	4.91
	4923.58	V	Y	PK	50.12	1.68	N/A	N/A	51.80	74.00	22.20
	4924.41	V	Y	AV	39.26	1.68	1.73	N/A	42.67	54.00	11.33
2467	2483.82	H	Y	PK	51.75	3.26	N/A	N/A	55.01	74.00	18.99
	2483.69	H	Y	AV	41.68	3.26	1.73	N/A	46.67	54.00	7.33
	4934.13	V	Y	PK	50.23	1.70	N/A	N/A	51.93	74.00	22.07
	4933.97	V	Y	AV	39.38	1.70	1.73	N/A	42.81	54.00	11.19
2472	2483.64	H	Y	PK	52.81	3.26	N/A	N/A	56.07	74.00	17.93
	2483.59	H	Y	AV	42.25	3.26	1.73	N/A	47.24	54.00	6.76
	4943.51	V	Y	PK	49.94	1.73	N/A	N/A	51.67	74.00	22.33
	4943.73	V	Y	AV	39.37	1.73	1.73	N/A	42.83	54.00	11.17

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  
 $\text{Margin} = \text{Limit} - \text{Result}$  /  $\text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF}$  /  $\text{T.F} = \text{AF} + \text{CL} - \text{AG}$   
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 9 Normal**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.26	H	Y	PK	57.73	2.76	N/A	N/A	60.49	74.00	13.51
	2389.97	H	Y	AV	46.14	2.77	1.33	N/A	50.24	54.00	3.76
	4823.72	V	Y	PK	50.65	1.64	N/A	N/A	52.29	74.00	21.71
	4824.45	V	Y	AV	39.59	1.64	1.33	N/A	42.56	54.00	11.44
2437	4873.61	V	Y	PK	50.28	1.62	N/A	N/A	51.90	74.00	22.10
	4873.62	V	Y	AV	39.52	1.62	1.33	N/A	42.47	54.00	11.53
2462	2484.04	H	Y	PK	54.28	3.26	N/A	N/A	57.54	74.00	16.46
	2483.62	H	Y	AV	44.15	3.26	1.33	N/A	48.74	54.00	5.26
	4923.82	V	Y	PK	50.48	1.68	N/A	N/A	52.16	74.00	21.84
	4923.55	V	Y	AV	39.32	1.68	1.33	N/A	42.33	54.00	11.67
2467	2484.10	H	X	PK	51.66	3.27	N/A	N/A	54.93	74.00	19.07
	2483.92	H	X	AV	41.75	3.27	1.33	N/A	46.35	54.00	7.65
	4933.76	V	Y	PK	50.32	1.70	N/A	N/A	52.02	74.00	21.98
	4933.90	V	Y	AV	39.25	1.70	1.33	N/A	42.28	54.00	11.72
2472	2483.64	H	X	PK	53.82	3.26	N/A	N/A	57.08	74.00	16.92
	2483.52	H	X	AV	42.32	3.26	1.33	N/A	46.91	54.00	7.09
	4944.36	V	Y	PK	51.25	1.73	N/A	N/A	52.98	74.00	21.02
	4944.00	V	Y	AV	39.36	1.73	1.33	N/A	42.42	54.00	11.58

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 1 Wireless Charging**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.00	H	X	PK	52.79	2.76	N/A	N/A	55.55	74.00	18.45
	2389.14	H	X	AV	43.31	2.76	N/A	N/A	46.07	54.00	7.93
	4823.97	H	X	PK	50.28	1.64	N/A	N/A	51.92	74.00	22.08
	4823.78	H	X	AV	39.54	1.64	N/A	N/A	41.18	54.00	12.82
2437	4873.59	H	X	PK	50.37	1.62	N/A	N/A	51.99	74.00	22.01
	4874.29	H	X	AV	39.85	1.62	N/A	N/A	41.47	54.00	12.53
2462	2483.90	H	X	PK	52.58	3.27	N/A	N/A	55.85	74.00	18.15
	2483.62	H	X	AV	42.99	3.26	N/A	N/A	46.25	54.00	7.75
	4924.51	H	X	PK	50.30	1.68	N/A	N/A	51.98	74.00	22.02
	4924.41	H	X	AV	39.38	1.68	N/A	N/A	41.06	54.00	12.94
2467	2483.95	H	X	PK	52.12	3.27	N/A	N/A	55.39	74.00	18.61
	2483.71	H	X	AV	41.52	3.26	N/A	N/A	44.78	54.00	9.22
	4934.33	H	X	PK	49.27	1.70	N/A	N/A	50.97	74.00	23.03
	4934.15	H	X	AV	39.32	1.70	N/A	N/A	41.02	54.00	12.98
2472	2483.67	H	X	PK	50.70	3.26	N/A	N/A	53.96	74.00	20.04
	2483.80	H	X	AV	41.50	3.26	N/A	N/A	44.76	54.00	9.24
	4943.86	H	X	PK	50.43	1.73	N/A	N/A	52.16	74.00	21.84
	4943.92	H	X	AV	39.19	1.73	N/A	N/A	40.92	54.00	13.08

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  
 $Margin = Limit - Result$  /  $Result = Reading + T.F + DCCF + DCF$  /  $T.F = AF + CL - AG$   
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,  
 DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 5 Wireless Charging**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.91	H	X	PK	59.99	2.77	N/A	N/A	62.76	74.00	11.24
	2389.97	H	X	AV	47.08	2.77	0.45	N/A	50.30	54.00	3.70
	4824.24	H	X	PK	50.74	1.64	N/A	N/A	52.38	74.00	21.62
	4823.64	H	X	AV	39.50	1.64	0.45	N/A	41.59	54.00	12.41
2437	4873.85	H	X	PK	50.40	1.62	N/A	N/A	52.02	74.00	21.98
	4873.54	H	X	AV	39.74	1.62	0.45	N/A	41.81	54.00	12.19
2462	2483.87	H	X	PK	57.56	3.27	N/A	N/A	60.83	74.00	13.17
	2483.67	H	X	AV	44.75	3.26	0.45	N/A	48.46	54.00	5.54
	4924.42	H	X	PK	49.92	1.68	N/A	N/A	51.60	74.00	22.40
	4923.94	H	X	AV	39.44	1.68	0.45	N/A	41.57	54.00	12.43
2467	2483.90	H	X	PK	51.40	3.27	N/A	N/A	54.67	74.00	19.33
	2483.85	H	X	AV	41.47	3.26	0.45	N/A	45.18	54.00	8.82
	4933.81	H	X	PK	49.53	1.70	N/A	N/A	51.23	74.00	22.77
	4933.83	H	X	AV	39.11	1.70	0.45	N/A	41.26	54.00	12.74
2472	2483.70	H	X	PK	52.58	3.26	N/A	N/A	55.84	74.00	18.16
	2483.60	H	X	AV	42.27	3.26	0.45	N/A	45.98	54.00	8.02
	4943.62	H	X	PK	51.18	1.73	N/A	N/A	52.91	74.00	21.09
	4944.28	H	X	AV	39.54	1.73	0.45	N/A	41.72	54.00	12.28

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  
 $\text{Margin} = \text{Limit} - \text{Result}$  /  $\text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF}$  /  $\text{T.F} = \text{AF} + \text{CL} - \text{AG}$   
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 6 Wireless Charging**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.39	H	X	PK	55.50	2.76	N/A	N/A	58.26	74.00	15.74
	2389.40	H	X	AV	45.43	2.76	0.47	N/A	48.66	54.00	5.34
	4824.23	H	X	PK	50.00	1.64	N/A	N/A	51.64	74.00	22.36
	4823.58	H	X	AV	39.34	1.64	0.47	N/A	41.45	54.00	12.55
2437	4874.24	H	X	PK	50.56	1.62	N/A	N/A	52.18	74.00	21.82
	4873.74	H	X	AV	39.45	1.62	0.47	N/A	41.54	54.00	12.46
2462	2483.78	H	X	PK	55.27	3.26	N/A	N/A	58.53	74.00	15.47
	2483.63	H	X	AV	44.52	3.26	0.47	N/A	48.25	54.00	5.75
	4923.62	H	X	PK	49.81	1.68	N/A	N/A	51.49	74.00	22.51
	4924.32	H	X	AV	39.31	1.68	0.47	N/A	41.46	54.00	12.54
2467	2484.21	H	X	PK	53.07	3.27	N/A	N/A	56.34	74.00	17.66
	2483.68	H	X	AV	42.32	3.26	0.47	N/A	46.05	54.00	7.95
	4934.36	H	X	PK	50.17	1.70	N/A	N/A	51.87	74.00	22.13
	4933.78	H	X	AV	39.17	1.70	0.47	N/A	41.34	54.00	12.66
2472	2483.55	H	X	PK	53.86	3.26	N/A	N/A	57.12	74.00	16.88
	2483.54	H	X	AV	43.79	3.26	0.47	N/A	47.52	54.00	6.48
	4943.81	H	X	PK	49.44	1.73	N/A	N/A	51.17	74.00	22.83
	4944.48	H	X	AV	38.85	1.73	0.47	N/A	41.05	54.00	12.95

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  
 $\text{Margin} = \text{Limit} - \text{Result}$  /  $\text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF}$  /  $\text{T.F} = \text{AF} + \text{CL} - \text{AG}$   
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 7 Wireless Charging**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.53	H	X	PK	57.51	2.77	N/A	N/A	60.28	74.00	13.72
	2389.97	H	X	AV	45.93	2.77	0.45	N/A	49.15	54.00	4.85
	4824.49	H	X	PK	50.61	1.64	N/A	N/A	52.25	74.00	21.75
	4824.33	H	X	AV	39.59	1.64	0.45	N/A	41.68	54.00	12.32
2437	4873.91	H	X	PK	50.12	1.62	N/A	N/A	51.74	74.00	22.26
	4873.76	H	X	AV	39.67	1.62	0.45	N/A	41.74	54.00	12.26
2462	2483.91	H	X	PK	55.01	3.27	N/A	N/A	58.28	74.00	15.72
	2483.67	H	X	AV	44.24	3.26	0.45	N/A	47.95	54.00	6.05
	4924.36	H	X	PK	50.57	1.68	N/A	N/A	52.25	74.00	21.75
	4923.64	H	X	AV	39.18	1.68	0.45	N/A	41.31	54.00	12.69
2467	2484.00	H	X	PK	53.87	3.27	N/A	N/A	57.14	74.00	16.86
	2483.76	H	X	AV	42.62	3.26	0.45	N/A	46.33	54.00	7.67
	4944.32	H	X	PK	50.58	1.73	N/A	N/A	52.31	74.00	21.69
	4943.56	H	X	AV	39.26	1.73	0.45	N/A	41.44	54.00	12.56
2472	2484.00	H	X	PK	51.94	3.27	N/A	N/A	55.21	74.00	18.79
	2483.76	H	X	AV	41.48	3.26	0.45	N/A	45.19	54.00	8.81
	4933.91	H	X	PK	49.72	1.70	N/A	N/A	51.42	74.00	22.58
	4934.16	H	X	AV	39.16	1.70	0.45	N/A	41.31	54.00	12.69

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 8 Wireless Charging**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.86	H	X	PK	58.37	2.76	N/A	N/A	61.13	74.00	12.87
	2389.71	H	X	AV	46.35	2.76	1.73	N/A	50.84	54.00	3.16
	4824.13	H	X	PK	50.63	1.64	N/A	N/A	52.27	74.00	21.73
	4823.73	H	X	AV	39.44	1.64	1.73	N/A	42.81	54.00	11.19
2437	4873.94	H	X	PK	50.09	1.62	N/A	N/A	51.71	74.00	22.29
	4873.91	H	X	AV	39.97	1.62	1.73	N/A	43.32	54.00	10.68
2462	2483.55	H	X	PK	56.02	3.26	N/A	N/A	59.28	74.00	14.72
	2483.77	H	X	AV	44.05	3.26	1.73	N/A	49.04	54.00	4.96
	4924.13	H	X	PK	49.67	1.68	N/A	N/A	51.35	74.00	22.65
	4924.02	H	X	AV	39.15	1.68	1.73	N/A	42.56	54.00	11.44
2467	2483.75	H	X	PK	51.19	3.26	N/A	N/A	54.45	74.00	19.55
	2483.77	H	X	AV	41.61	3.26	1.73	N/A	46.60	54.00	7.40
	4933.64	H	X	PK	49.62	1.70	N/A	N/A	51.32	74.00	22.68
	4934.19	H	X	AV	39.20	1.70	1.73	N/A	42.63	54.00	11.37
2472	2483.61	H	X	PK	56.03	3.26	N/A	N/A	59.29	74.00	14.71
	2483.60	H	X	AV	42.46	3.26	1.73	N/A	47.45	54.00	6.55
	4943.64	H	X	PK	50.23	1.73	N/A	N/A	51.96	74.00	22.04
	4944.04	H	X	AV	39.13	1.73	1.73	N/A	42.59	54.00	11.41

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 9 Wireless Charging**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.08	H	X	PK	59.04	2.76	N/A	N/A	61.80	74.00	12.20
	2389.76	H	X	AV	46.31	2.77	1.33	N/A	50.41	54.00	3.59
	4823.63	H	X	PK	50.25	1.64	N/A	N/A	51.89	74.00	22.11
	4823.83	H	X	AV	39.57	1.64	1.33	N/A	42.54	54.00	11.46
2437	4874.25	H	X	PK	51.50	1.62	N/A	N/A	53.12	74.00	20.88
	4873.57	H	X	AV	39.85	1.62	1.33	N/A	42.80	54.00	11.20
2462	2483.69	H	X	PK	55.66	3.26	N/A	N/A	58.92	74.00	15.08
	2483.60	H	X	AV	44.24	3.26	1.33	N/A	48.83	54.00	5.17
	4923.53	H	X	PK	50.08	1.68	N/A	N/A	51.76	74.00	22.24
	4923.82	H	X	AV	39.22	1.68	1.33	N/A	42.23	54.00	11.77
2467	2483.98	H	X	PK	52.62	3.27	N/A	N/A	55.89	74.00	18.11
	2483.91	H	X	AV	42.86	3.27	1.33	N/A	47.46	54.00	6.54
	4934.34	H	X	PK	50.07	1.70	N/A	N/A	51.77	74.00	22.23
	4933.71	H	X	AV	39.27	1.70	1.33	N/A	42.30	54.00	11.70
2472	2483.53	H	X	PK	53.87	3.26	N/A	N/A	57.13	74.00	16.87
	2483.51	H	X	AV	42.62	3.26	1.33	N/A	47.21	54.00	6.79
	4944.34	H	X	PK	49.96	1.73	N/A	N/A	51.69	74.00	22.31
	4943.94	H	X	AV	39.47	1.73	1.33	N/A	42.53	54.00	11.47

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  
 $\text{Margin} = \text{Limit} - \text{Result}$  /  $\text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF}$  /  $\text{T.F} = \text{AF} + \text{CL} - \text{AG}$   
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 8 With Dual Display**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.70	H	Y	PK	58.16	2.76	N/A	N/A	60.92	74.00	13.08
	2389.53	H	Y	AV	45.82	2.76	N/A	N/A	48.58	54.00	5.42
	4824.00	V	Y	PK	51.42	1.64	N/A	N/A	53.06	74.00	20.94
	4823.78	V	Y	AV	39.40	1.64	N/A	N/A	41.04	54.00	12.96
	5399.85	V	Y	PK	50.59	3.86	N/A	N/A	54.45	74.00	19.55
	5400.00	V	Y	AV	40.02	3.86	N/A	N/A	43.88	54.00	10.12
	10799.78	V	Y	PK	49.38	6.48	N/A	N/A	55.86	74.00	18.14
	10800.04	V	Y	AV	42.23	6.48	N/A	N/A	48.71	54.00	5.29
	16199.89	H	Y	PK	46.79	12.69	N/A	N/A	59.48	74.00	14.52
	16199.79	H	Y	AV	36.71	12.69	N/A	N/A	49.40	54.00	4.60
	21599.73	H	Z	PK	51.79	8.28	N/A	-9.54	50.53	68.20	17.67

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

**Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 8 With Dual Display+WPC**

Tested Frequency	Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2412	2389.63	H	X	PK	58.66	2.76	N/A	N/A	61.42	74.00	12.58
	2389.98	H	X	AV	46.12	2.76	N/A	N/A	48.88	54.00	5.12
	4924.06	H	X	PK	50.90	1.64	N/A	N/A	52.54	74.00	21.46
	4823.92	H	X	AV	39.46	1.64	N/A	N/A	41.10	54.00	12.90
	5399.86	H	X	PK	49.89	3.86	N/A	N/A	53.75	74.00	20.25
	5400.04	H	X	AV	38.84	3.86	N/A	N/A	42.70	54.00	11.30
	10800.32	V	X	PK	47.30	6.48	N/A	N/A	53.78	74.00	20.22
	10799.98	V	X	AV	39.36	6.48	N/A	N/A	45.84	54.00	8.16
	16199.93	H	X	PK	46.35	12.69	N/A	N/A	59.04	74.00	14.96
	16199.85	H	X	AV	35.85	12.69	N/A	N/A	48.54	54.00	5.46
	21600.08	V	X	PK	48.68	8.28	N/A	N/A	56.96	68.20	11.24

**Note.**

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Sample Calculation.  

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Information of Distance Factor  
 For finding emissions, the test distance might be reduced from 3 m to 1 m.  
 In this case, the distance factor (-9.54 dB) is applied to the result.  
 - Calculation of distance factor =  $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$   
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

## 8.6 Power-line conducted emissions

### ■ Test Requirements and limit, §15.207

For an intentional radiator which 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

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

### ■ Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to the test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

### ■ Test Results: **Comply**(Refer to next page.)

The worst data was reported.