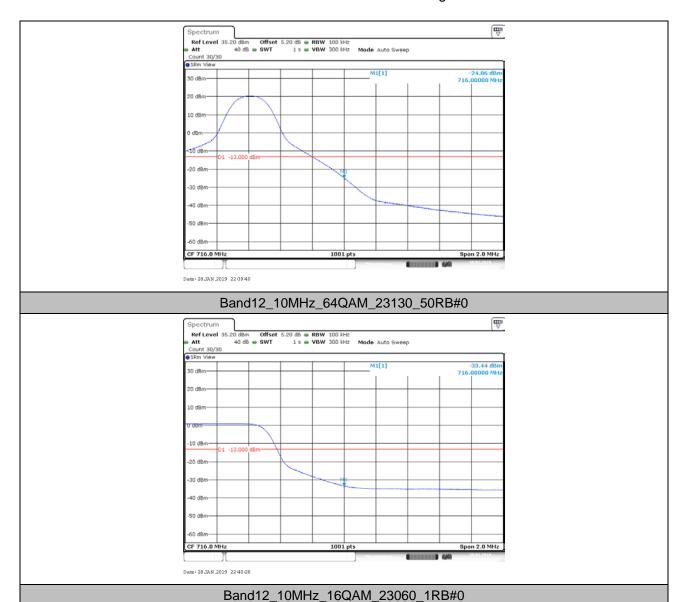
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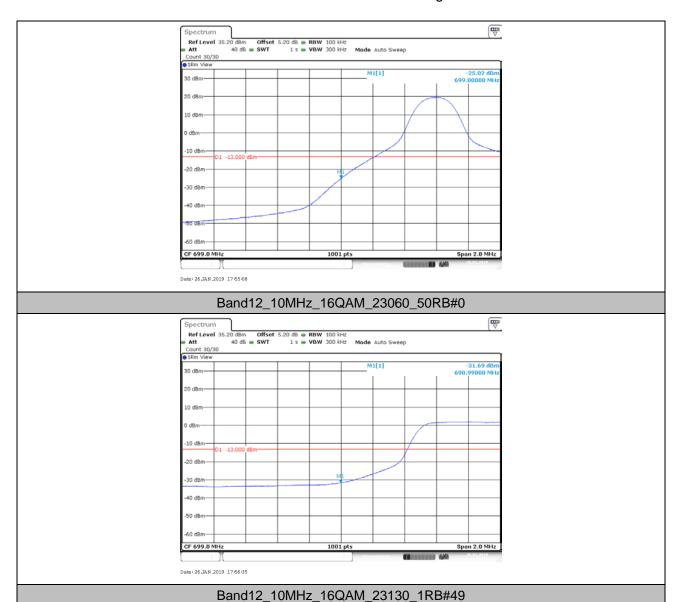
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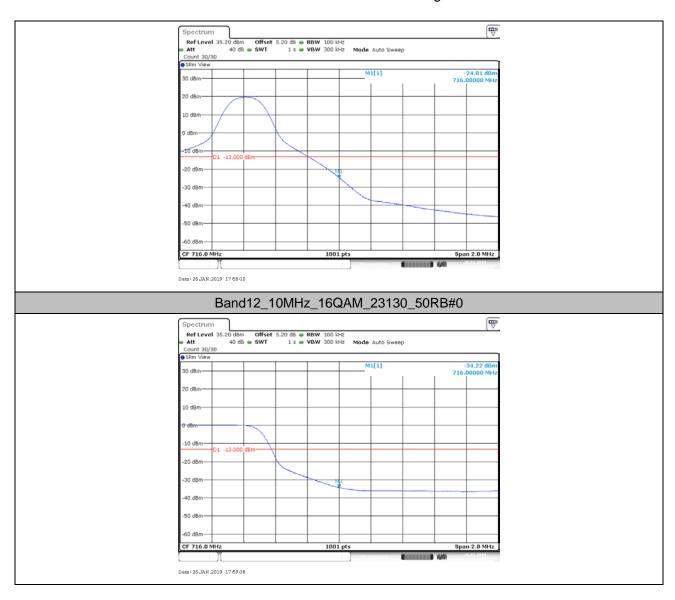
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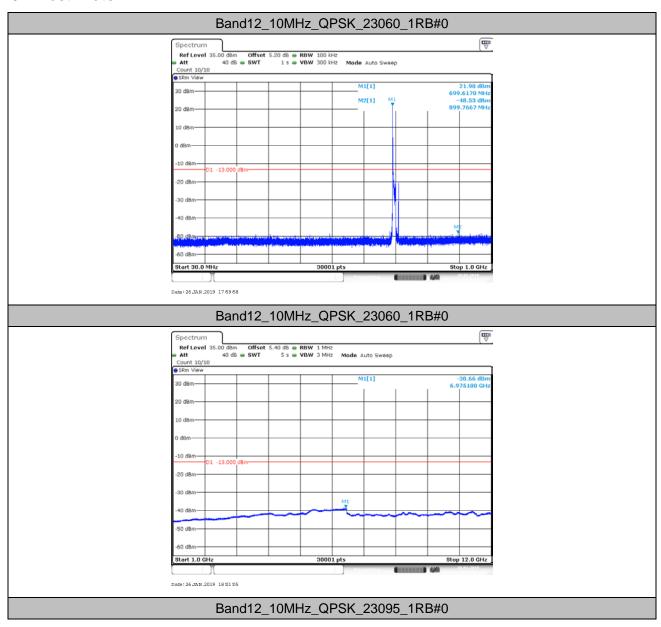
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### 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k \* (Span / RBW)" with k = 4 \* (Span / RBW) with k = 4 \* (Span / RBW).

Remark2: only the worst case data displayed in this report.

#### 6.1. Test Plots





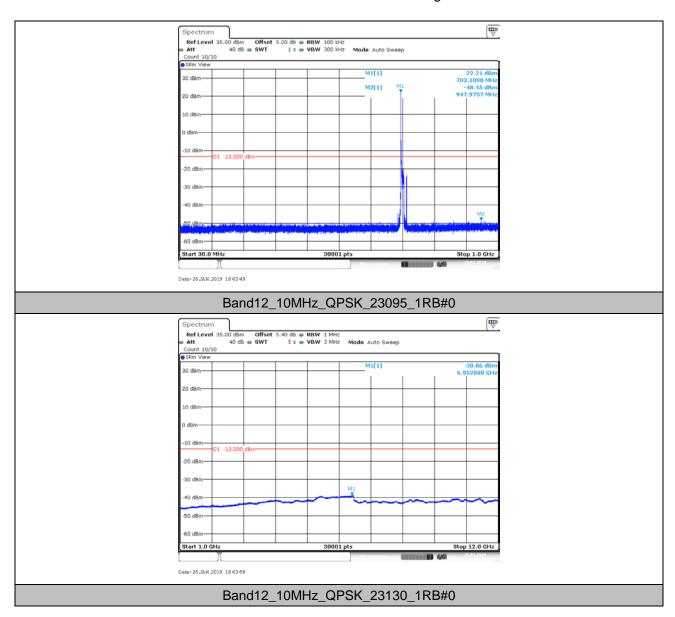
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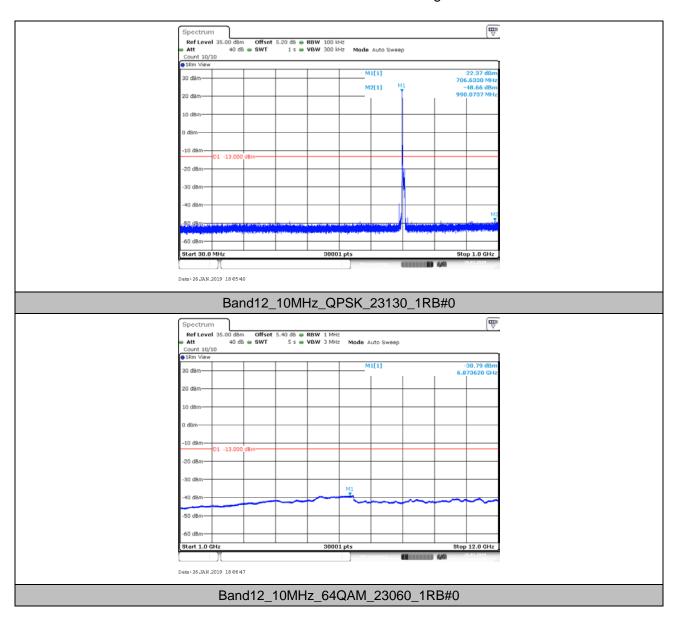
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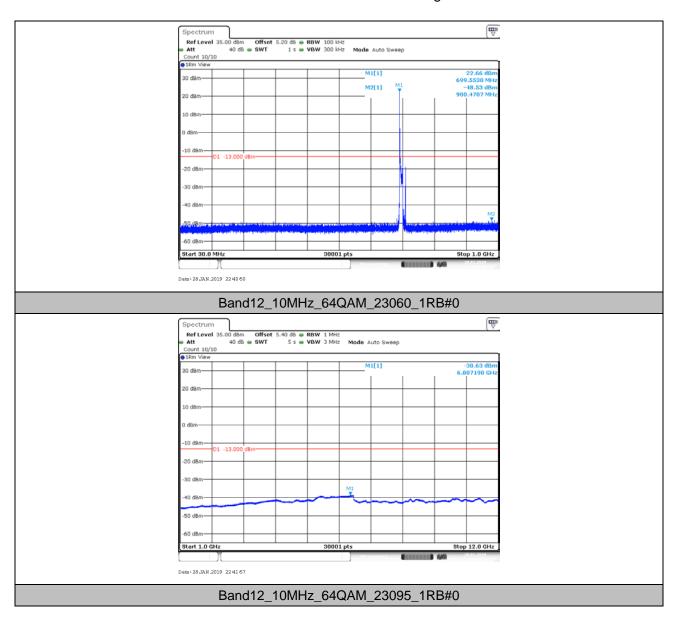
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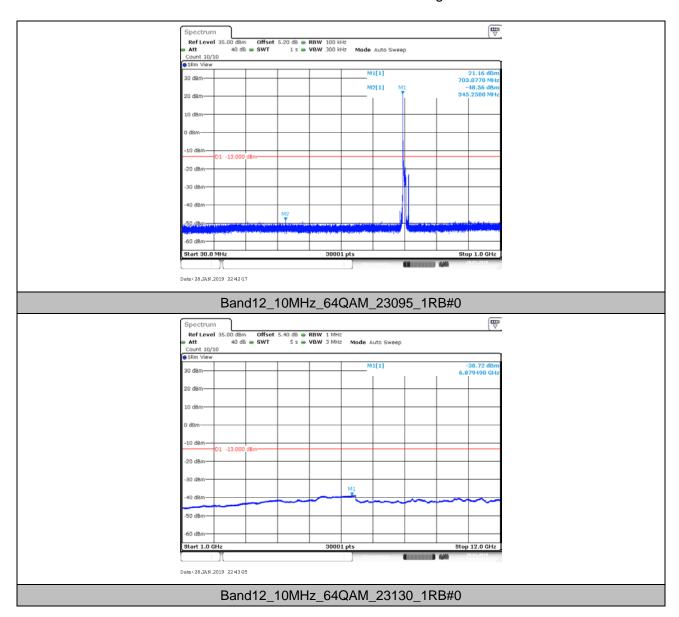
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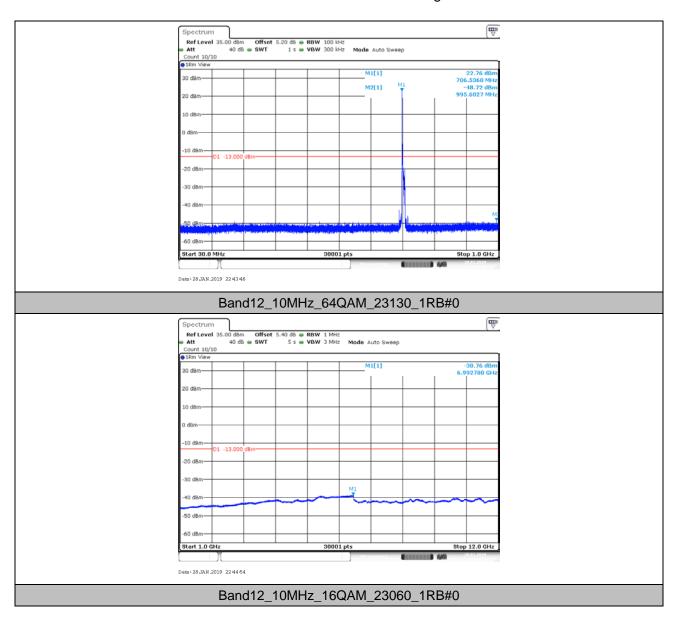
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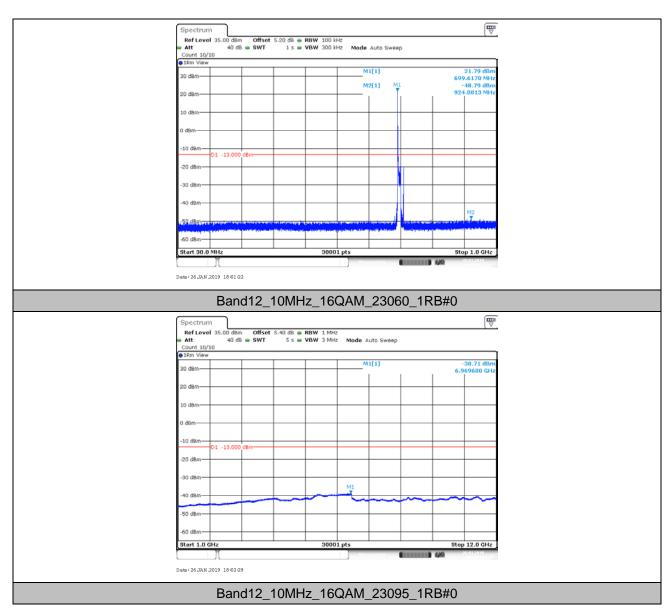
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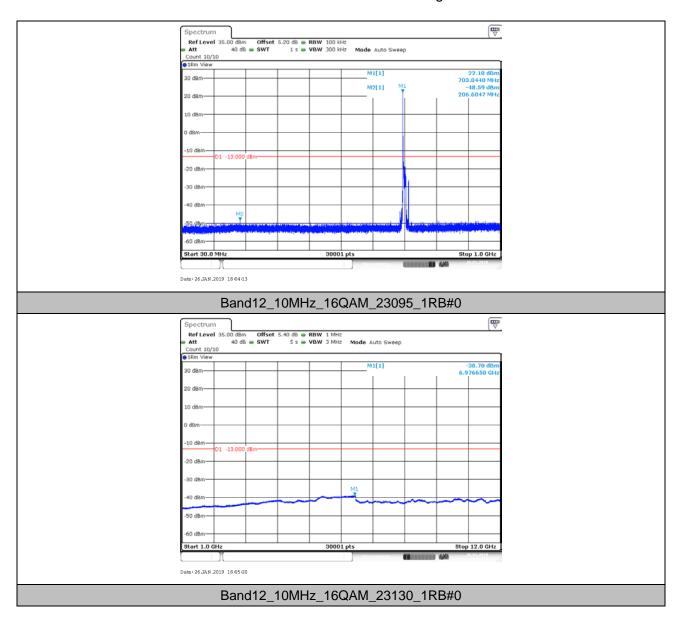
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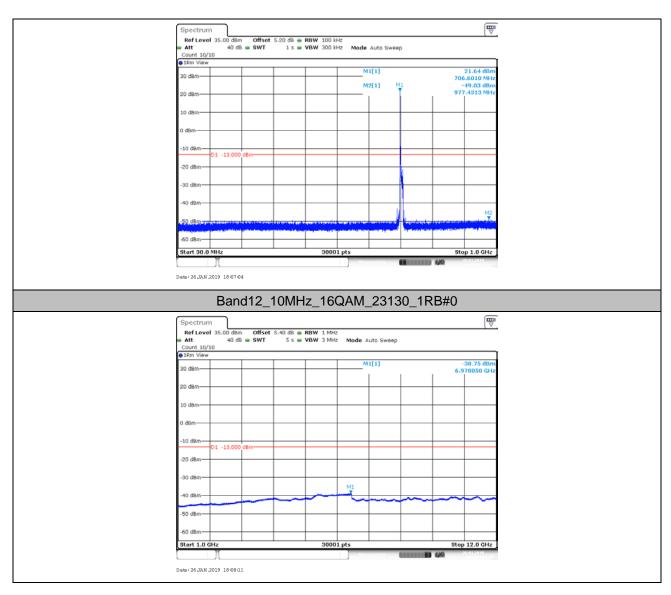
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## 7. Field Strength of Spurious Radiation

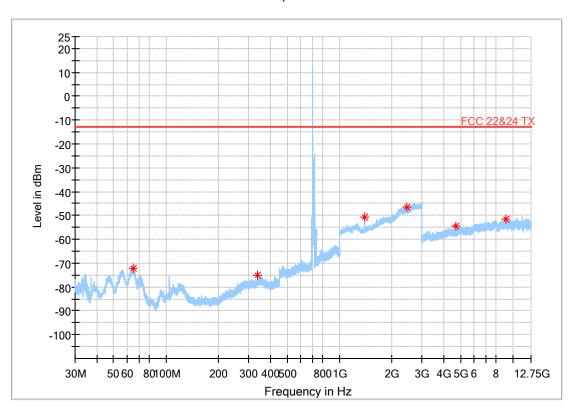
### 7.1. Main Antenna

### 7.1.1. Test BAND = LTE BAND 12

#### 7.1.1.1. Test Mode =LTE/TM1

#### 7.1.1.1.1 LCH-Vertical

Full Spectrum



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.813333	-72.04	-13.00	59.04			200.0	V	193.0	-99.8
339.353333	-75.15	-13.00	62.15			200.0	V	8.0	-101.8
1398.500000	-50.87	-13.00	37.87			200.0	V	284.0	-89.6
2434.000000	-46.47	-13.00	33.47			200.0	V	68.0	-81.0
4729.650000	-54.54	-13.00	41.54			200.0	V	0.0	-102.4
9179.550000	-51.36	-13.00	38.36			200.0	V	212.0	-97.0



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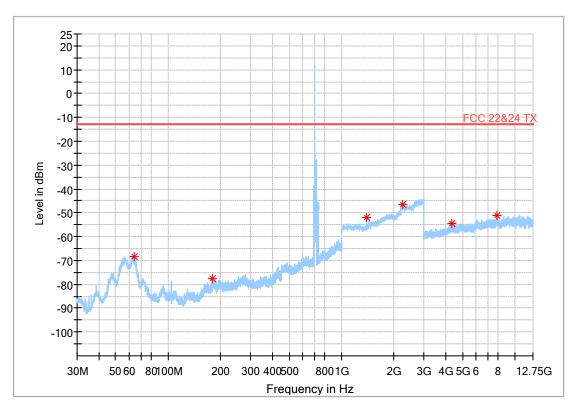
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#### 7.1.1.1.2. LCH-Horizontal

#### Full Spectrum



## Critical\_Freqs

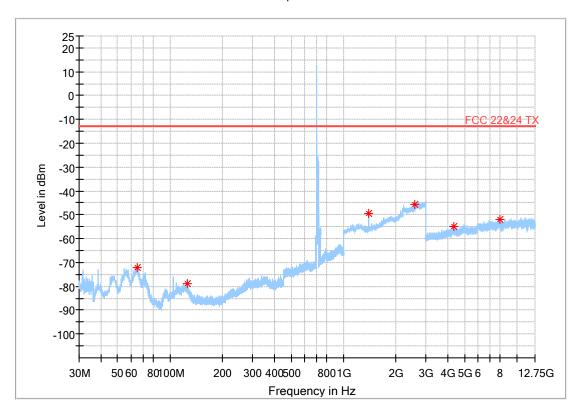
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.740000	-68.18	-13.00	55.18			200.0	Н	265.0	-96.4
181.386667	-77.56	-13.00	64.56			200.0	Н	10.0	-107.1
1399.000000	-52.17	-13.00	39.17			200.0	Н	284.0	-89.5
2251.500000	-46.41	-13.00	33.41			200.0	Н	33.0	-81.5
4321.775000	-54.64	-13.00	41.64			200.0	Н	0.0	-102.5
7891.250000	-51.17	-13.00	38.17			200.0	Н	0.0	-97.9



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#### 7.1.1.1.3. MCH-Vertical

#### Full Spectrum



### Critical\_Freqs

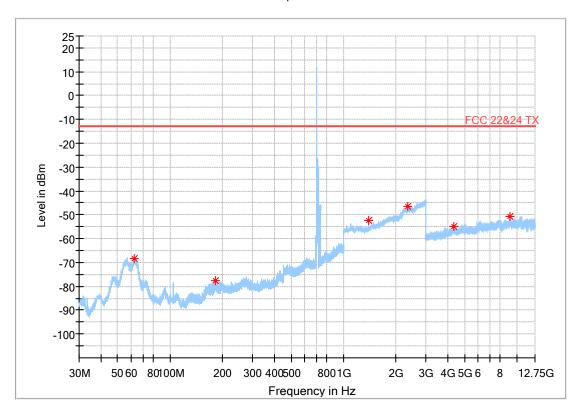
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.486667	-72.02	-13.00	59.02			200.0	V	310.0	-99.9
126.180000	-78.98	-13.00	65.98			200.0	V	167.0	-104.3
1406.000000	-49.44	-13.00	36.44			200.0	V	142.0	-89.7
2581.500000	-45.52	-13.00	32.52			200.0	V	70.0	-80.1
4313.000000	-54.86	-13.00	41.86			200.0	V	212.0	-102.7
8022.225000	-51.78	-13.00	38.78			200.0	V	0.0	-98.4



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#### 7.1.1.1.4. MCH-Horizontal

#### Full Spectrum



## Critical\_Freqs

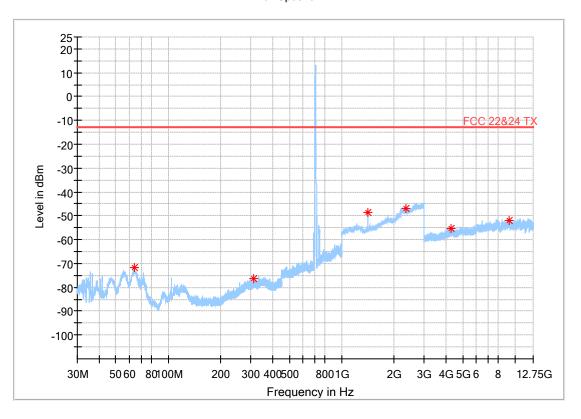
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62.480000	-68.47	-13.00	55.47			200.0	Н	359.0	-95.1
183.720000	-77.41	-13.00	64.41			200.0	Н	31.0	-106.9
1406.000000	-52.41	-13.00	39.41			200.0	Н	283.0	-89.5
2370.000000	-46.67	-13.00	33.67			200.0	Н	69.0	-81.3
4317.550000	-54.81	-13.00	41.81			200.0	Н	0.0	-102.5
9110.975000	-50.80	-13.00	37.80			200.0	Н	0.0	-97.0



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#### 7.1.1.1.5. HCH-Vertical

#### Full Spectrum



### Critical\_Freqs

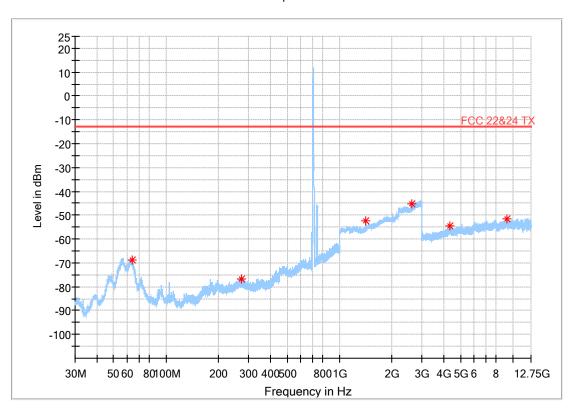
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.160000	-71.84	-13.00	58.84			200.0	>	8.0	-100.0
310.700000	-76.36	-13.00	63.36			200.0	V	31.0	-102.1
1413.000000	-48.61	-13.00	35.61			200.0	V	142.0	-89.6
2341.000000	-46.95	-13.00	33.95			200.0	V	0.0	-81.7
4274.975000	-55.21	-13.00	42.21			200.0	V	0.0	-102.8
9215.300000	-51.83	-13.00	38.83			200.0	V	0.0	-97.0



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#### 7.1.1.1.6. HCH-Horizontal

#### Full Spectrum



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.160000	-68.98	-13.00	55.98			200.0	Η	334.0	-96.9
272.946667	-76.76	-13.00	63.76			200.0	Η	33.0	-102.4
1413.500000	-52.30	-13.00	39.30			200.0	Н	284.0	-89.4
2633.000000	-45.35	-13.00	32.35			200.0	Н	285.0	-80.1
4363.050000	-54.62	-13.00	41.62			200.0	Н	212.0	-102.8
9283.875000	-51.75	-13.00	38.75			200.0	Η	0.0	-96.8



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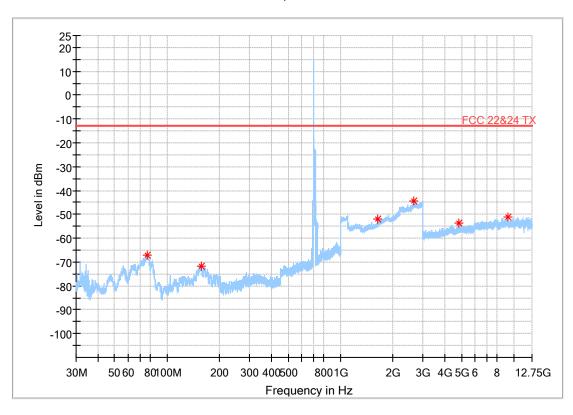
#### 7.2. **Secondary Antenna**

#### 7.2.1. Test BAND = LTE BAND 12

#### 7.2.1.1. Test Mode =LTE/TM1

#### 7.2.1.1.1. LCH-Vertical

Full Spectrum



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.900000	-67.17	-13.00	54.17			200.0	>	310.0	-108.0
157.960000	-71.69	-13.00	58.69			200.0	V	76.0	-108.8
1635.500000	-51.88	-13.00	38.88			200.0	V	0.0	-87.5
2656.500000	-44.59	-13.00	31.59			200.0	V	323.0	-79.1
4825.200000	-53.54	-13.00	40.54			200.0	V	0.0	-102.0
9287.287500	-51.13	-13.00	38.13			200.0	V	1.0	-96.9



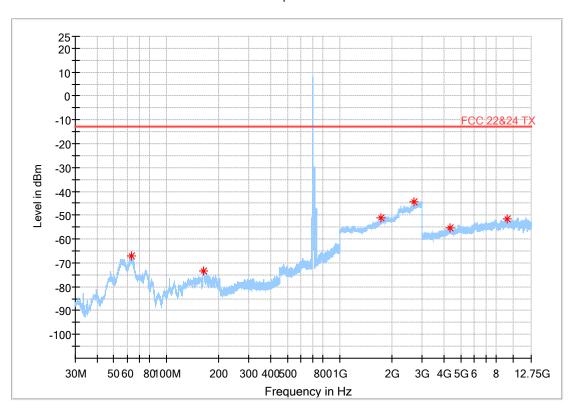
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#### 7.2.1.1.2. LCH-Horizontal

#### Full Spectrum



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.553333	-67.28	-13.00	54.28			200.0	Н	0.0	-96.2
164.260000	-73.26	-13.00	60.26			200.0	Н	219.0	-107.6
1743.000000	-51.12	-13.00	38.12			200.0	Н	0.0	-86.7
2700.500000	-44.37	-13.00	31.37			200.0	Н	68.0	-78.9
4313.812500	-55.36	-13.00	42.36			200.0	Н	1.0	-102.5
9273.150000	-51.36	-13.00	38.36			200.0	Н	0.0	-96.9



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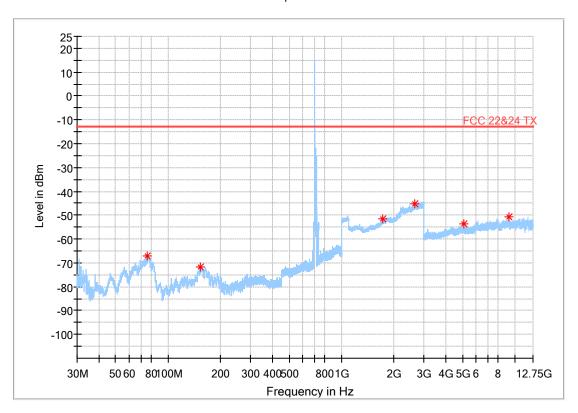
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#### 7.2.1.1.3. MCH-Vertical

#### Full Spectrum



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.573333	-67.01	-13.00	54.01			200.0	V	312.0	-107.7
154.506667	-71.69	-13.00	58.69			200.0	V	99.0	-108.9
1726.500000	-51.68	-13.00	38.68			200.0	V	1.0	-86.7
2646.000000	-45.23	-13.00	32.23			200.0	V	359.0	-79.3
5121.112500	-53.73	-13.00	40.73			200.0	V	0.0	-101.6
9242.925000	-50.86	-13.00	37.86			200.0	V	210.0	-97.0



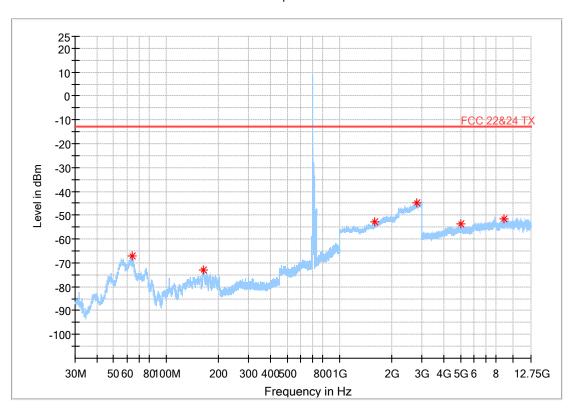
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#### 7.2.1.1.4. MCH-Horizontal

#### Full Spectrum



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.880000	-67.07	-13.00	54.07			200.0	Н	122.0	-96.6
164.866667	-73.03	-13.00	60.03			200.0	Н	216.0	-107.5
1591.500000	-52.99	-13.00	39.99			200.0	Н	354.0	-88.0
2799.000000	-44.89	-13.00	31.89			200.0	Н	142.0	-78.6
4993.387500	-53.72	-13.00	40.72			200.0	Н	1.0	-101.4
8909.475000	-51.69	-13.00	38.69			200.0	Н	1.0	-97.0



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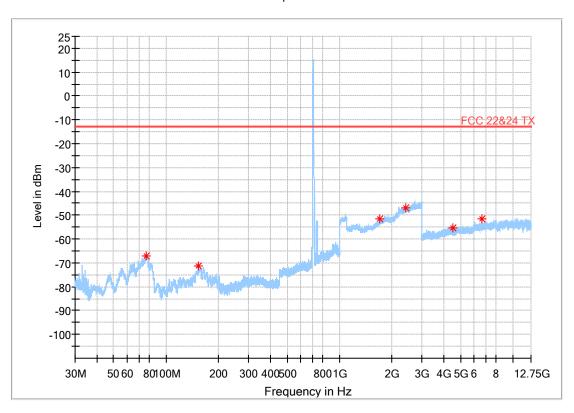
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#### 7.2.1.1.5. HCH-Vertical

#### Full Spectrum



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.853333	-67.24	-13.00	54.24			200.0	V	335.0	-107.9
154.693333	-71.22	-13.00	58.22			200.0	V	101.0	-108.9
1720.500000	-51.70	-13.00	38.70			200.0	V	354.0	-86.7
2432.500000	-46.85	-13.00	33.85			200.0	V	286.0	-81.0
4493.700000	-55.22	-13.00	42.22			200.0	V	0.0	-103.0
6607.987500	-51.74	-13.00	38.74			200.0	V	0.0	-99.1



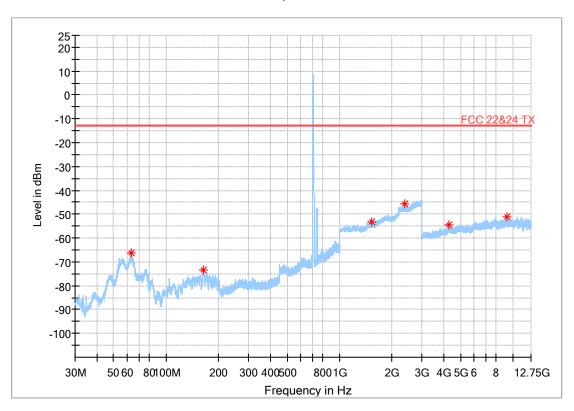
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#### 7.2.1.1.6. HCH-Horizontal





## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.273333	-66.45	-13.00	53.45			200.0	Н	145.0	-96.0
165.053333	-73.61	-13.00	60.61			200.0	Н	192.0	-107.5
1542.500000	-53.08	-13.00	40.08			200.0	Н	0.0	-88.3
2378.000000	-45.86	-13.00	32.86			200.0	Н	323.0	-81.2
4278.712500	-54.44	-13.00	41.44			200.0	Н	0.0	-102.7
9310.200000	-51.13	-13.00	38.13			200.0	Н	2.0	-96.9

#### Remark:

- 1) The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
- 2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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### 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	0.60	0.000852	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	-0.30	-0.000426	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	0.20	0.000283	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	0.60	0.000844	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-0.70	-0.000985	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VN	NT	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VH	NT	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VL	NT	-0.20	-0.000283	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VN	NT	0.10	0.000141	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VH	NT	-0.70	-0.000989	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VL	NT	-0.30	-0.000422	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VN	NT	-0.70	-0.000985	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VH	NT	-0.50	-0.000703	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	-0.20	-0.000284	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-0.40	-0.000565	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-0.60	-0.000848	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-0.60	-0.000848	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-1.00	-0.001406	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-0.20	-0.000281	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-0.10	-0.000141	±2.5	PASS

### 8.2. Frequency Vs Temperature

Temperature											
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature $(^{\circ}\mathbb{C})$	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	-0.40	-0.000568	±2.5	PASS	
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-0.10	-0.000142	±2.5	PASS	
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-0.50	-0.000710	±2.5	PASS	
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-0.30	-0.000426	±2.5	PASS	
Band12	10MHz	QPSK	23060	50RB#0	NV	20	0.00	0.000000	±2.5	PASS	
Band12	10MHz	QPSK	23060	50RB#0	NV	30	0.30	0.000426	±2.5	PASS	



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			ı				1			
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.50	-0.000707	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.10	0.000141	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	0.40	0.000565	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.70	-0.000989	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-0.40	-0.000563	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	0.10	0.000141	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	0.00	0.000000	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-0.30	-0.000422	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-0.70	-0.000985	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	0.50	0.000703	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	0.30	0.000422	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	10	0.10	0.000142	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	20	-0.80	-0.001136	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	30	-0.50	-0.000710	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	40	-0.30	-0.000426	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	50	-0.30	-0.000426	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-30	-0.50	-0.000707	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-20	-1.10	-0.001555	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	0	-0.50	-0.000707	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	10	-0.50	-0.000707	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	20	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	30	0.20	0.000424	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	40	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	50	-0.70	-0.000424	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-30	-0.70	-0.000969	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-20	-0.40	-0.000363	±2.5	PASS
-								0.000422		
Band12	10MHz	64QAM	23130	50RB#0	NV	0	0.30		±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	10	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	20	0.20	0.000281	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	30	-0.20	-0.000281	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	40	0.10	0.000141	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	50	0.50	0.000703	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-0.20	-0.000284	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-0.50	-0.000710	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	-0.30	-0.000426	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	0.10	0.000142	±2.5	PASS



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Band12	10MHz	16QAM	23060	50RB#0	NV	30	-0.70	-0.000994	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	0.10	0.000142	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-0.20	-0.000283	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-0.50	-0.000707	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-0.50	-0.000707	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-0.40	-0.000565	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	0.10	0.000141	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	0.30	0.000422	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	0.50	0.000703	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	0.30	0.000422	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-0.20	-0.000281	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	0.10	0.000141	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-0.20	-0.000281	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-0.30	-0.000422	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-0.70	-0.000985	±2.5	PASS

The End



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