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# Appendix B

E-UTRA Band 14



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### 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB	Conducted	ERP	Limit	Verdict
				Configuration	Power(dBm)	(dBm)	(dBm)	
Band14	5MHz	QPSK	23305	1RB#0	22.93	24.78	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.47	25.32	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	22.17	24.02	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#0	22.01	23.86	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#6	22.06	23.91	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#13	21.88	23.73	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.09	23.94	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	22.95	24.80	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.29	25.14	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	22.43	24.28	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#0	21.97	23.82	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#6	21.95	23.80	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#13	21.99	23.84	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.05	23.90	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.19	25.04	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.42	25.27	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.6	24.45	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#0	22.18	24.03	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#6	22.24	24.09	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#13	22.19	24.04	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.18	24.03	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.24	24.09	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.12	23.97	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.15	24.00	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#0	21.08	22.93	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#6	21.07	22.92	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#13	20.97	22.82	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	20.92	22.77	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.34	24.19	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.15	24.00	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.17	24.02	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#0	21.03	22.88	34.77	PASS



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Band14	5MHz	16QAM	23330	12RB#6	21.05	22.90	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#13	21.08	22.93	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.01	22.86	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.47	24.32	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.62	24.47	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.56	24.41	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#0	21.29	23.14	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#6	21.32	23.17	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#13	21.18	23.03	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.19	23.04	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.07	24.92	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.77	25.62	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	22.06	23.91	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#0	22.25	24.10	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#12	22.08	23.93	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#25	21.92	23.77	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	21.99	23.84	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.27	24.12	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.33	24.18	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.51	24.36	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#0	20.98	22.83	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#12	21.01	22.86	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#25	20.97	22.82	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	20.94	22.79	34.77	PASS

#### Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



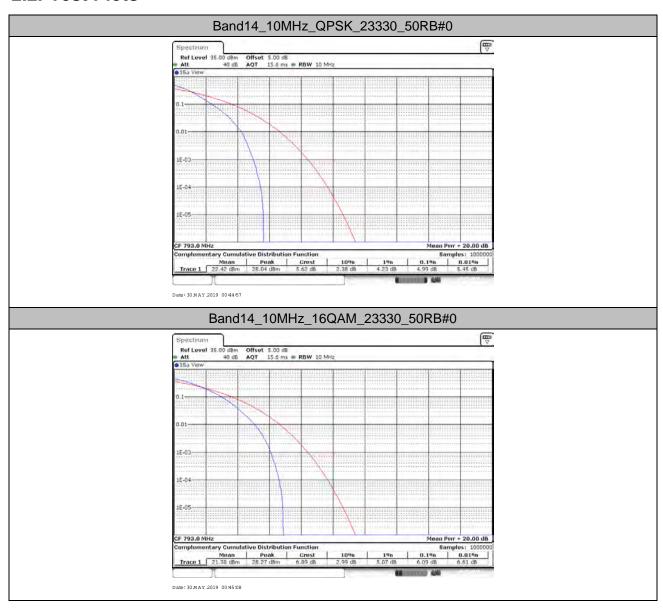
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### 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	4.99	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.09	13	PASS

### 2.2. Test Plots





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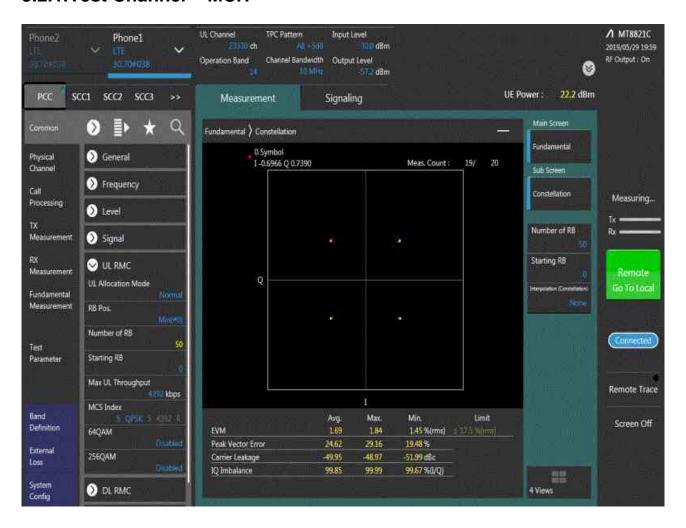
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### 3. Modulation Characteristics

- 3.1. Test BAND = LTE Band 14
- 3.2. Test Mode = LTE /TM1 10MHz
- 3.2.1.Test Channel = MCH

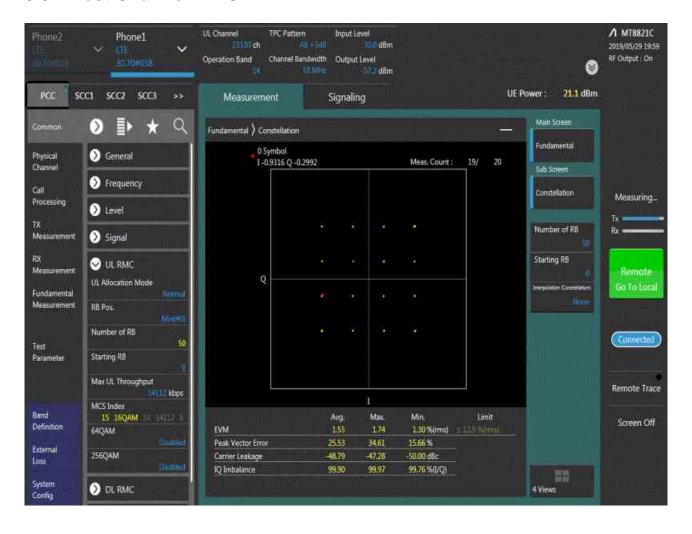




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### 3.3. Test Mode = LTE /TM2 10MHz

### 3.3.1.Test Channel = MCH





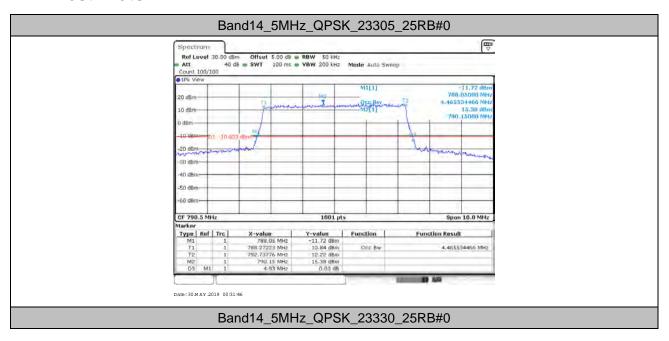
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### 4. 26dB Bandwidth and Occupied Bandwidth

#### 4.1. Test Result

BAND	Bandwidth	Modulation	Channel RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.466	4.930	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.476	4.910	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.476	4.930	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.476	4.950	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.466	4.930	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.456	4.850	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.911	9.700	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.891	9.700	PASS

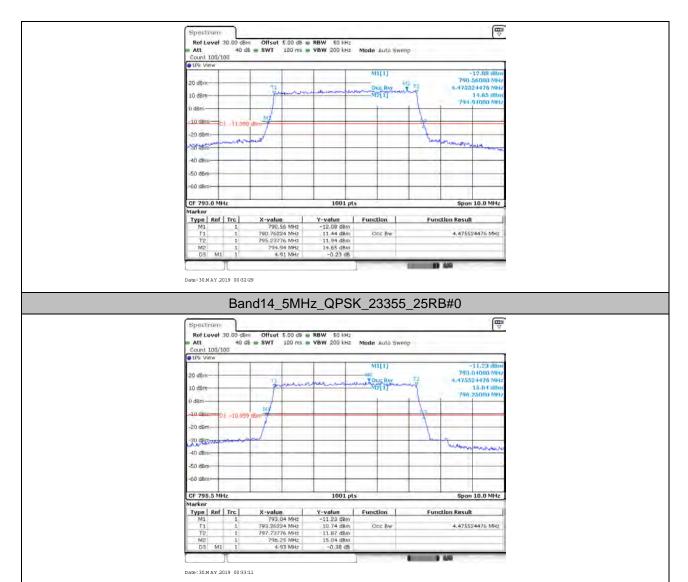
### 4.2. Test Plots





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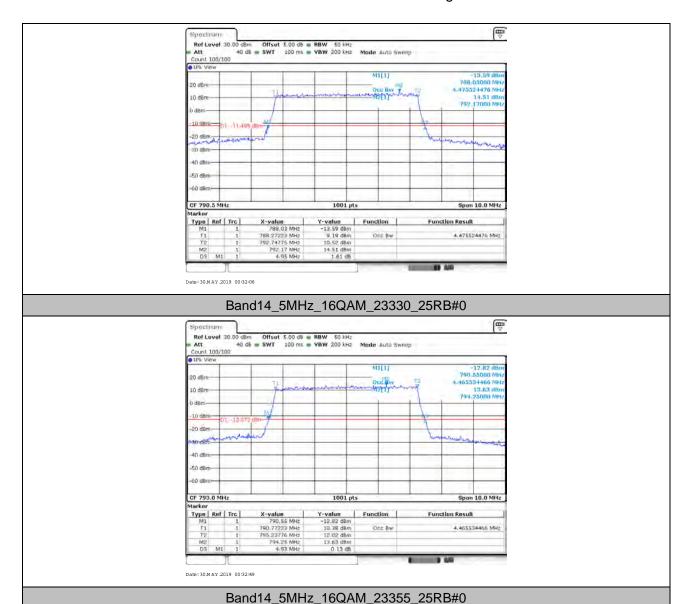


Band14\_5MHz\_16QAM\_23305\_25RB#0



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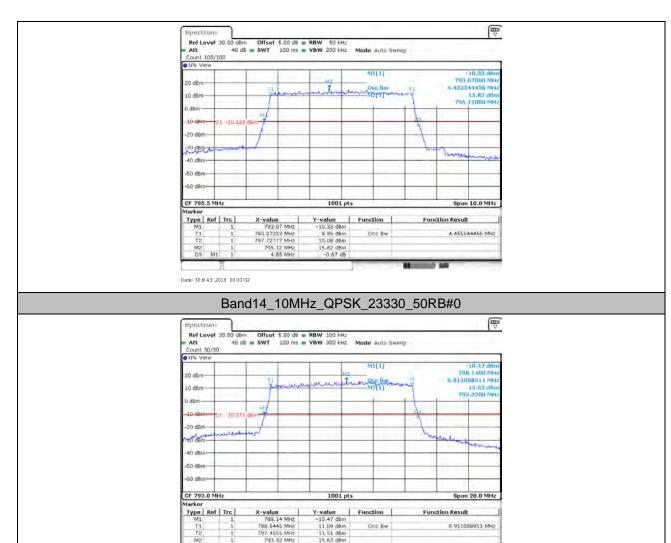
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Band14\_10MHz\_16QAM\_23330\_50RB#0



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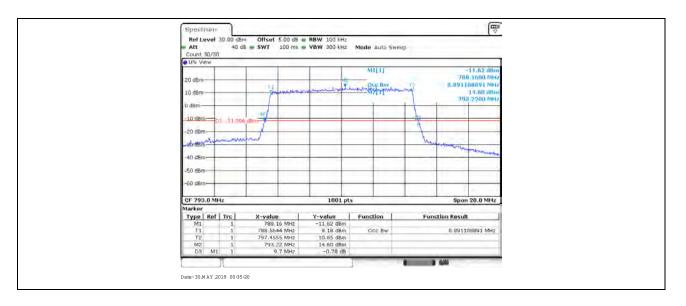
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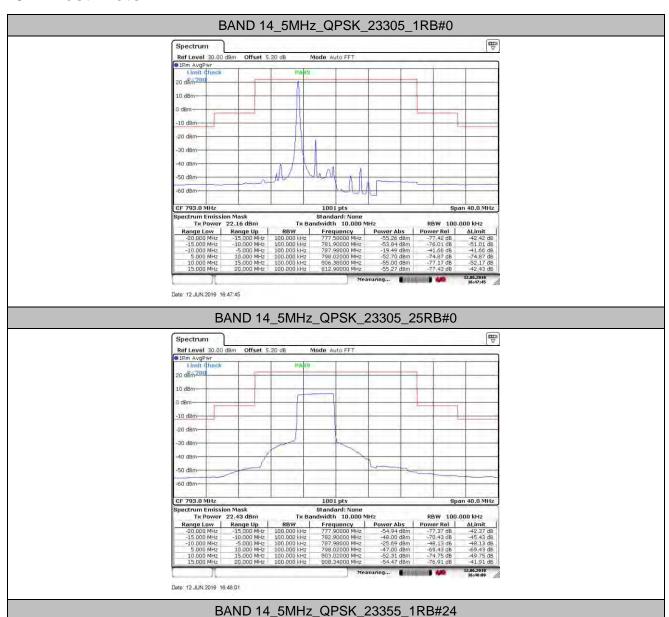
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### 5. Emission Mask

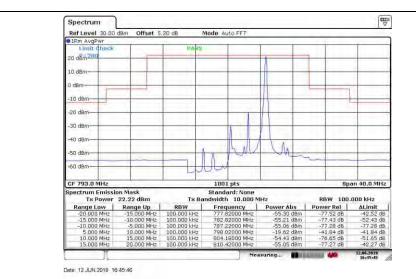
### 5.1. Test Plots



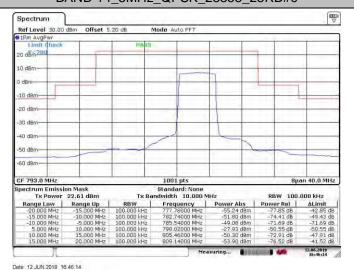


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#### BAND 14 5MHz QPSK 23355 25RB#0



BAND 14\_5MHz\_16QAM\_23305\_1RB#0



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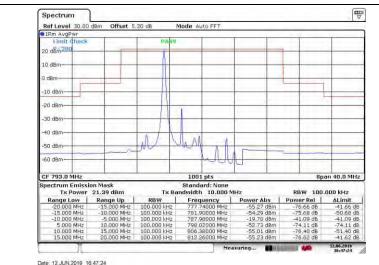
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### BAND 14 5MHz 16QAM 23305 25RB#0 ₩ V Spectrum Ref Level 30.00 dBm Offset 5.20 dB Mode Auto FFT 10 dBm -20 dBm -50 dBm Frequency

BAND 14\_5MHz\_16QAM\_23355\_1RB#24



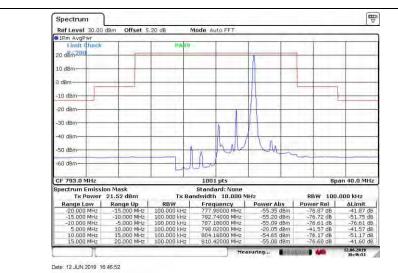
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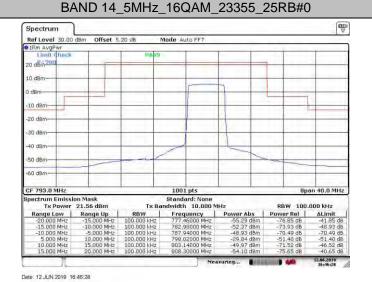
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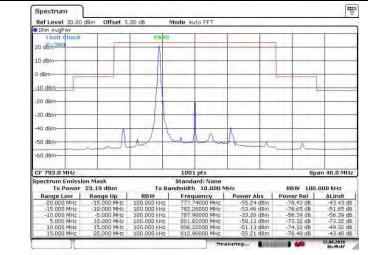


BAND 14\_10MHz\_QPSK\_23330\_1RB#0



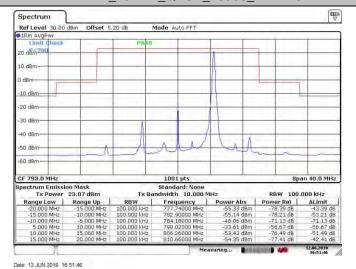
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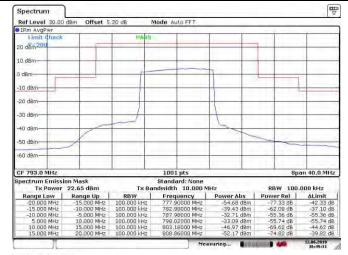


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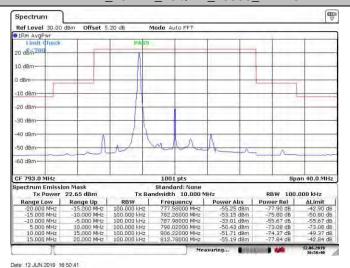
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Date: 12 JUN 2019 16:49:31

#### BAND 14 10MHz 16QAM 23330 1RB#0

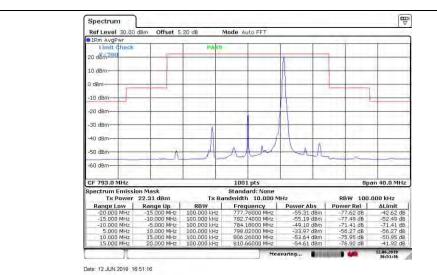


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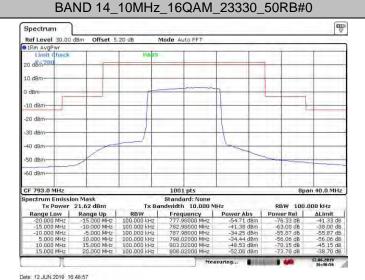


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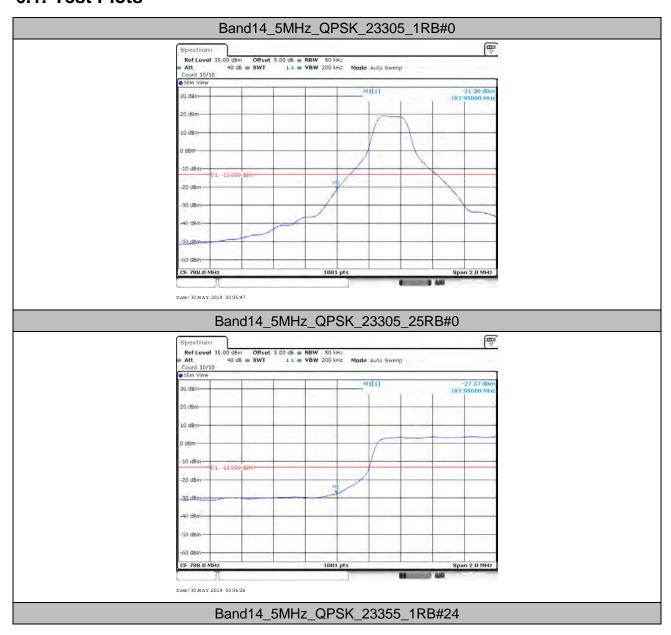
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### 6. Band Edge Compliance

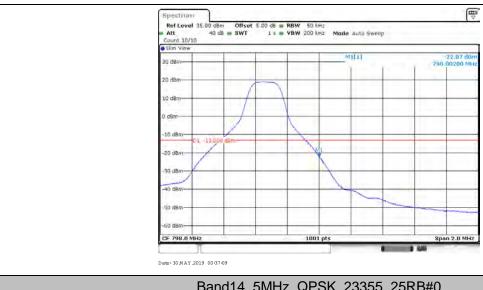
### 6.1. Test Plots





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#### Band14\_5MHz\_QPSK\_23355\_25RB#0



Band14\_5MHz\_16QAM\_23305\_1RB#0



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#### Band14\_5MHz\_16QAM\_23305\_25RB#0

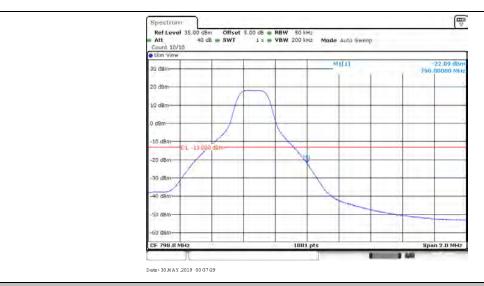


Band14 5MHz 16QAM 23355 1RB#24



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#### Band14\_5MHz\_16QAM\_23355\_25RB#0



Band14\_10MHz\_QPSK\_23330\_Left\_1RB#0



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#### Band14\_10MHz\_QPSK\_23330\_Right\_1RB#49



Band14\_10MHz\_QPSK\_23330\_Right\_50RB#0



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### Band14\_10MHz\_16QAM\_23330\_Left\_1RB#0



Band14\_10MHz\_16QAM\_23330\_Right\_1RB#49



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#### Band14\_10MHz\_16QAM\_23330\_Right\_50RB#0





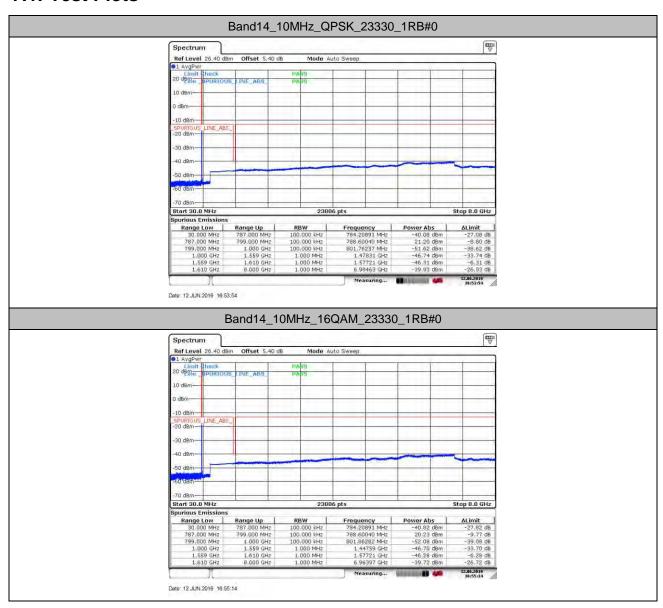
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### 7. Spurious Emission at Antenna Terminal

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 between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

#### 7.1. Test Plots





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### 8. Field Strength of Spurious Radiation

### 8.1. Test BAND = LTE Band 14

### 8.1.1.Test Mode =LTE/TM1 10MHz

### 8.1.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.926667	-80.12	-13.00	67.12	Vertical
104.293333	-78.12	-13.00	65.12	Vertical
1577.000000	-60.15	-40.00	20.15	Vertical
2365.500000	-57.20	-13.00	44.20	Vertical
3154.050000	-66.29	-13.00	53.29	Vertical
4852.012500	-65.00	-13.00	52.00	Vertical
61.966667	-76.72	-13.00	63.72	Horizontal
104.293333	-79.25	-13.00	66.25	Horizontal
1577.000000	-61.82	-40.00	21.82	Horizontal
2365.500000	-51.71	-13.00	38.71	Horizontal
4142.700000	-66.49	-13.00	53.49	Horizontal
6056.137500	-63.89	-13.00	50.89	Horizontal

#### Remark:

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.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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### 9. Frequency Stability

### 9.1. Frequency Vs Voltage

	Voltage											
BAND	Bandwidth	Modulation	Channel	RB	Voltage	Temperature	Deviation	Deviation	Limit	Verdict		
BAND	DAIND Dariuwiuiii	Modulation	Charine	Configure	[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	verdict		
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-0.40	-0.000504	±2.5	PASS		
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	0.10	0.000126	±2.5	PASS		
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-0.70	-0.000883	±2.5	PASS		
Band14	10MHz	16QAM	23330	50RB#0	VL	NT	1.20	0.001513	±2.5	PASS		
Band14	10MHz	16QAM	23330	50RB#0	VN	NT	-1.10	-0.001387	±2.5	PASS		
Band14	10MHz	16QAM	23330	50RB#0	VH	NT	0.20	0.000252	±2.5	PASS		

### 9.2. Frequency Vs Temperature

Temperatur	Temperature										
DAND		Madulation	Chamal	RB	Voltage	Temperature	Deviation	Deviation	Limit	\/a valiat	
BAND	Bandwidth	Modulation	Channel	Configure	[Vdc]	(℃)	(Hz)	(ppm)	(ppm)	Verdict	
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-2.10	-0.002648	±2.5	PASS	
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-1.50	-0.001892	±2.5	PASS	
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-0.40	-0.000504	±2.5	PASS	
Band14	10MHz	QPSK	23330	50RB#0	NV	10	1.40	0.001765	±2.5	PASS	
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-1.90	-0.002396	±2.5	PASS	
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-0.20	-0.000252	±2.5	PASS	
Band14	10MHz	QPSK	23330	50RB#0	NV	40	0.10	0.000126	±2.5	PASS	
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-2.10	-0.002648	±2.5	PASS	
Band14	10MHz	16QAM	23330	50RB#0	NV	-30	-1.30	-0.001639	±2.5	PASS	
Band14	10MHz	16QAM	23330	50RB#0	NV	-20	1.30	0.001639	±2.5	PASS	
Band14	10MHz	16QAM	23330	50RB#0	NV	0	-1.60	-0.002018	±2.5	PASS	
Band14	10MHz	16QAM	23330	50RB#0	NV	10	0.50	0.000631	±2.5	PASS	
Band14	10MHz	16QAM	23330	50RB#0	NV	20	-1.00	-0.001261	±2.5	PASS	
Band14	10MHz	16QAM	23330	50RB#0	NV	30	-1.50	-0.001892	±2.5	PASS	
Band14	10MHz	16QAM	23330	50RB#0	NV	40	-1.40	-0.001765	±2.5	PASS	
Band14	10MHz	16QAM	23330	50RB#0	NV	50	-2.10	-0.002648	±2.5	PASS	

The End

