Page: 1 of 39

Appendix B

E-UTRA Band 13



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Page: 2 of 39

CONTENT

1	EFF	ECTIVE (ISOTROPIC) RADIATED POWER	4
	1.1.	TEST RESULT	4
2.	PEA	IK-TO-AVERAGE RATIO (CCDF)	7
	2.1.	Test Result	7
	2.2.	Test Plots	
3.	МО	DULATION CHARACTERISTICS	8
	3.1.	TEST MODE = LTE /TM1 10MHz	8
	3.1.1.	TEST CHANNEL = MCH	8
	3.2.	TEST MODE = LTE /TM2 10MHz	<u>S</u>
	3.2.1.	TEST CHANNEL = MCH	<u>S</u>
	3.3.	TEST MODE = LTE /TM3 10MHz	10
	3.3.1.	TEST CHANNEL = MCH	10
4.	26D	B BANDWIDTH AND OCCUPIED BANDWIDTH	11
	4.1.	Test Result	11
	4.2.	TEST PLOTS	12
5.	BAN	ND EDGE COMPLIANCE	18
	5.1.	TEST PLOTS	18
6.	SPU	IRIOUS EMISSION AT ANTENNA TERMINAL	29
	6.1.	Test Plots	29
7.	FIFI	.D STRENGTH OF SPURIOUS RADIATION	
	7.1.	Test Band = _ LTE_Band13	
	7.2.	Test Band = LTE Band13	
	7.2.	7.2.1. Test Channel = Low Channel	
	7.3.	Test Band = _ LTE_Band13	
		7.3.1. Test Channel = Mid Channel	
	7.4.	Test Band = _ LTE_Band13	
		7.4.1. Test Channel = Mid Channel	
	7.5.	TEST BAND = _ LTE_BAND13	36



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Report No.: ZR/2021/4002101

3 of 39 Page:

	7.5.1. Test Channel = High Channel	36		
7.6.	Test Band = _ LTE_Band13			
8.	FREQUENCY STABILITY			
8.1.	Frequency Vs Voltage	38		
0 2	EDECUTENCY VC TENADEDATUDE	20		



Page: 4 of 39

1 Effective (Isotropic) Radiated Power

1.1. Test Result

ANT6:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.19	17.53	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.00	17.34	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.13	17.47	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.90	16.24	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.13	16.47	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.05	16.39	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.13	16.47	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.89	17.23	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.18	17.52	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.74	17.08	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.97	16.31	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.09	16.43	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.10	16.44	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.96	16.30	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.92	17.26	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.77	17.11	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.91	17.25	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.89	16.23	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.01	16.35	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.01	16.35	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.03	16.37	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.33	16.67	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.15	16.49	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.31	16.65	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	20.98	15.32	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.12	15.46	34.77	PASS



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Page: 5 of 39

Band13	5MHz	16QAM	23205	12RB#0	21.07	15.41	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.09	15.43	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.36	16.70	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.63	16.97	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.94	16.28	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.08	15.42	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	20.97	15.31	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.11	15.45	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.05	15.39	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.23	16.57	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.47	16.81	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.49	16.83	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.97	15.31	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.13	15.47	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.30	15.64	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.04	15.38	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.25	15.59	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.05	15.39	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.22	15.56	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#0	19.90	14.24	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#6	20.02	14.36	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#13	19.97	14.31	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.03	14.37	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.26	15.60	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.53	15.87	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	20.84	15.18	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#6	20.02	14.36	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#0	19.89	14.23	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#13	20.02	14.36	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	19.97	14.31	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.18	15.52	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.39	15.73	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.41	15.75	34.77	PASS



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6 of 39 Page:

Band13	5MHz	64QAM	23255	12RB#13	19.87	14.21	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#0	20.08	14.42	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#6	20.21	14.55	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	19.99	14.33	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.1	17.44	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.13	17.47	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.07	17.41	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.17	16.51	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.11	16.45	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.14	16.48	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.15	16.49	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.3	16.64	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.48	16.82	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.39	16.73	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.09	15.43	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.06	15.4	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.14	15.48	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.12	15.46	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.22	15.56	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.40	15.74	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.32	15.66	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	20.03	14.37	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	19.99	14.33	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	20.09	14.43	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.04	14.38	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]

The conducted Power is measured by Base Station Simulator



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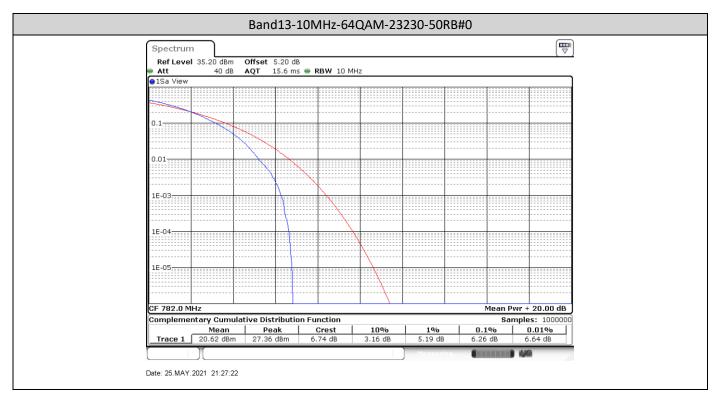
Page: 7 of 39

2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	64QAM	23230	50RB#0	6.26	13	PASS

2.2. Test Plots



Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.



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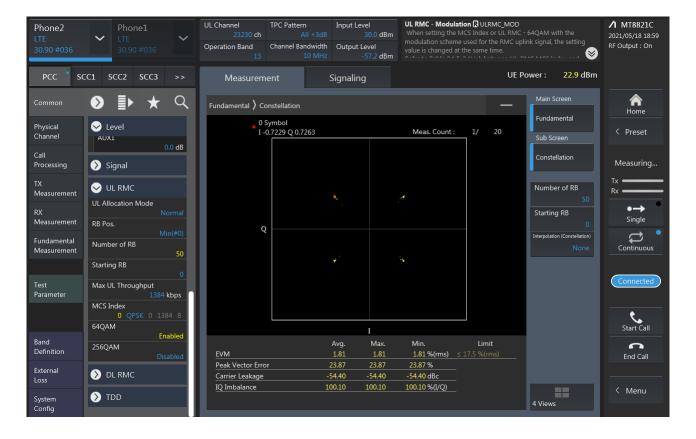
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Page: 8 of 39

3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH

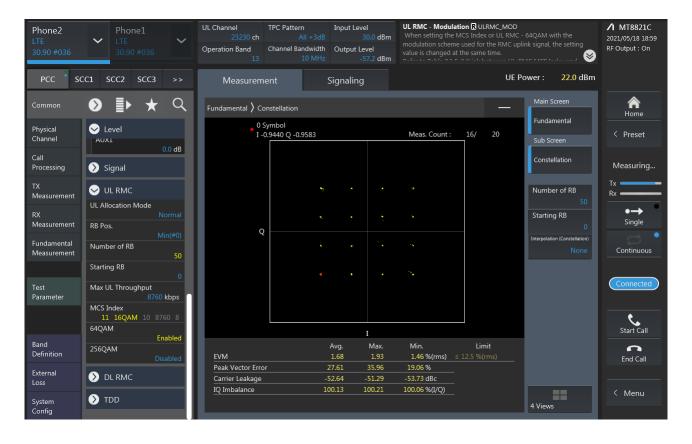




Page: 9 of 39

3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH

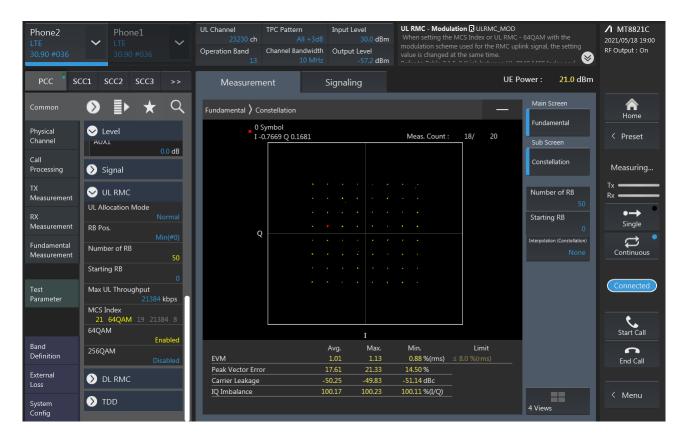




Page: 10 of 39

3.3. Test Mode = LTE /TM3 10MHz

3.3.1.Test Channel = MCH





Page: 11 of 39

4. 26dB Bandwidth and Occupied Bandwidth

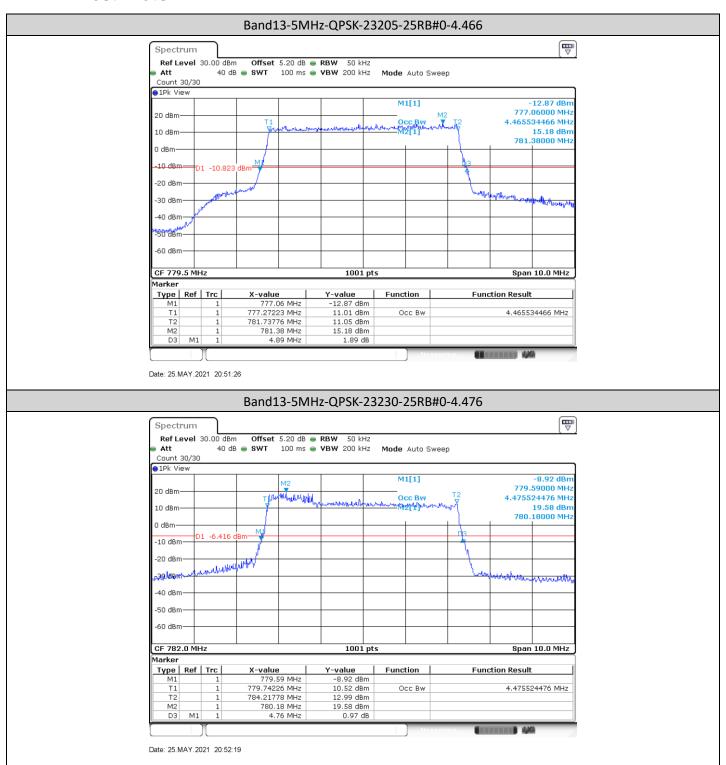
4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.466	4.890	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	4.760	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.486	4.910	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.466	4.900	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.466	4.870	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.476	4.920	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.476	4.900	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.476	4.890	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.496	4.920	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.911	9.620	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.911	9.540	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.911	9.620	PASS



Page: 12 of 39

4.2. Test Plots



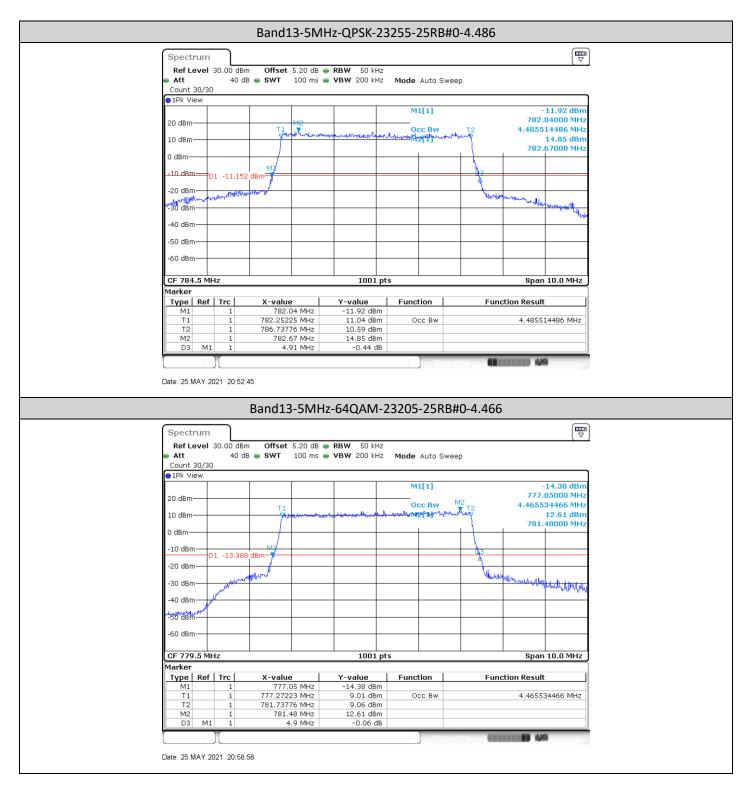


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Page: 13 of 39



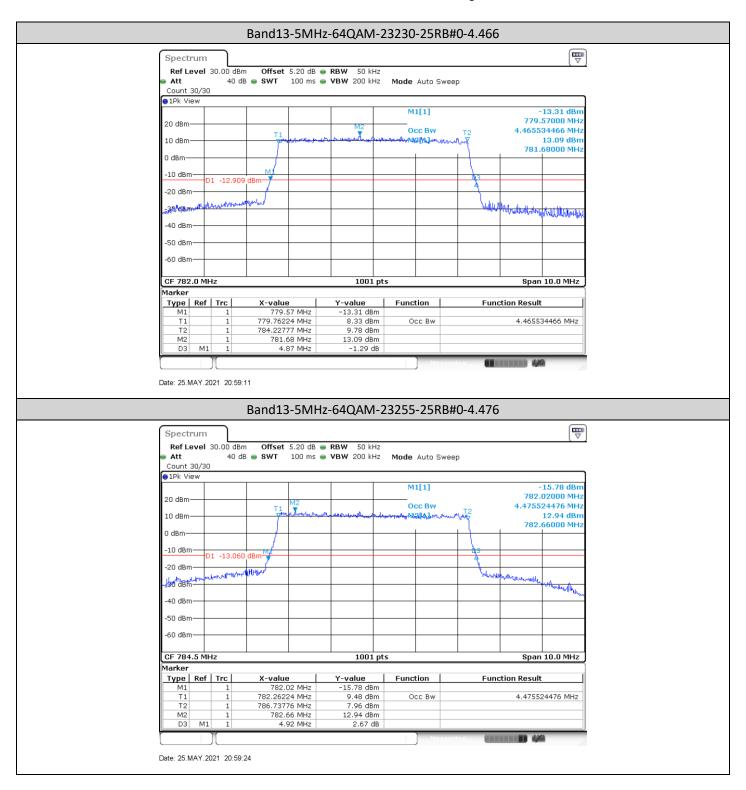


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Page: 16 of 39





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Report No.: ZR/2021/4002101

Page: 17 of 39





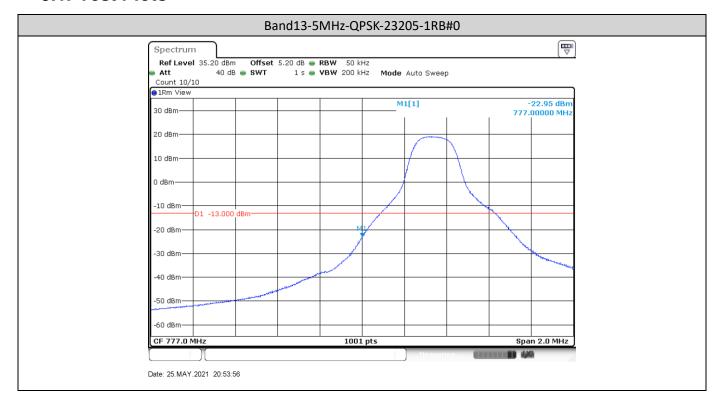
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Page: 18 of 39

5. Band Edge Compliance

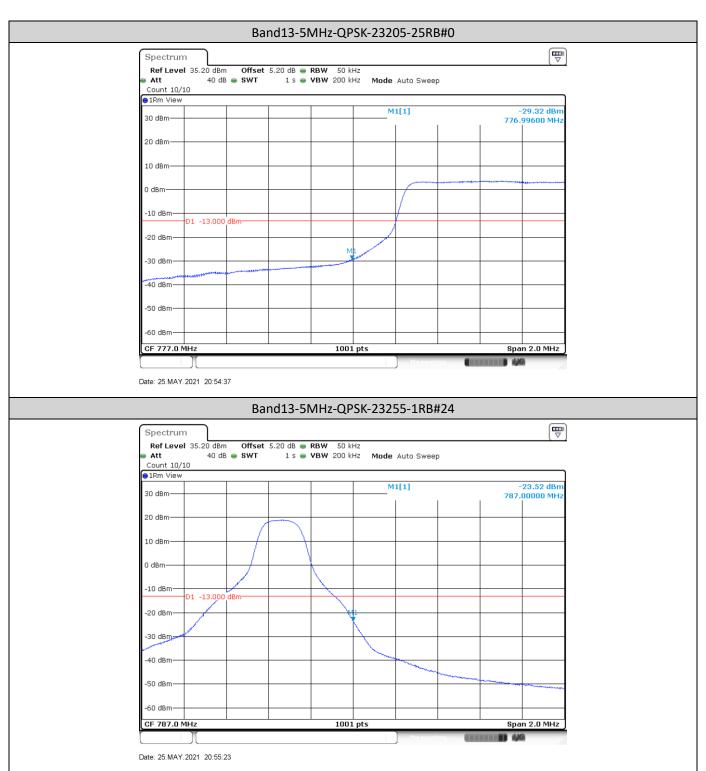
5.1. Test Plots





Report No.: ZR/2021/4002101

Page: 19 of 39



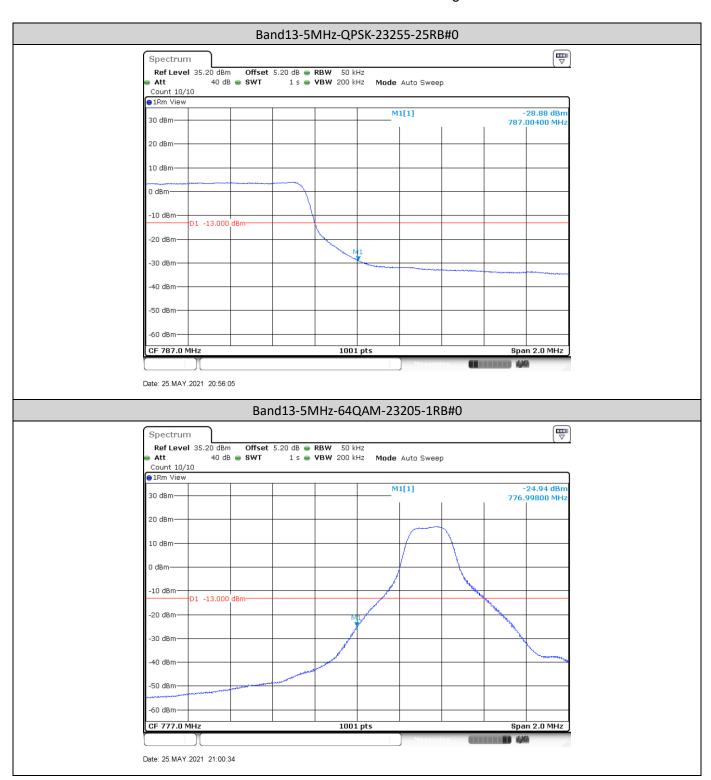


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Report No.: ZR/2021/4002101

Page: 20 of 39



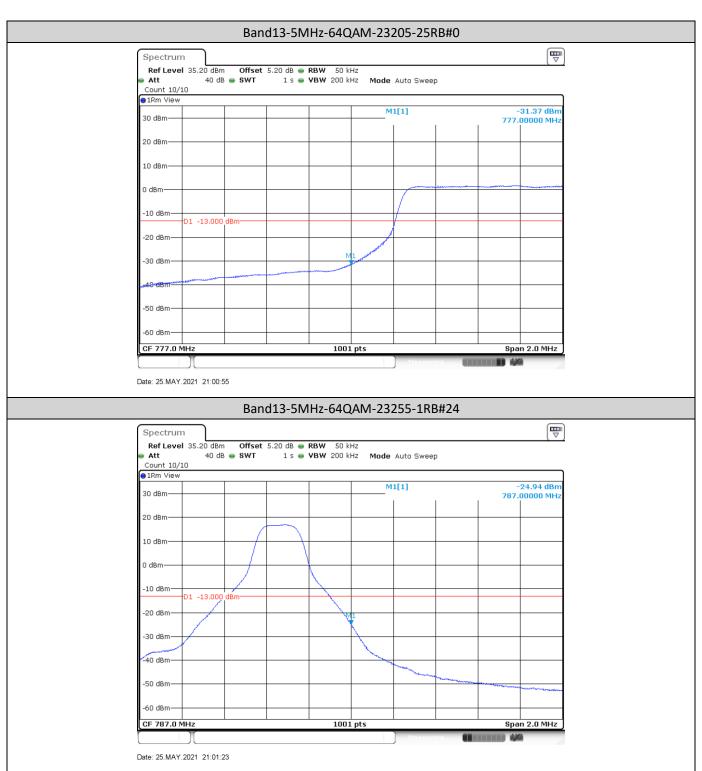


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Report No.: ZR/2021/4002101

Page: 21 of 39



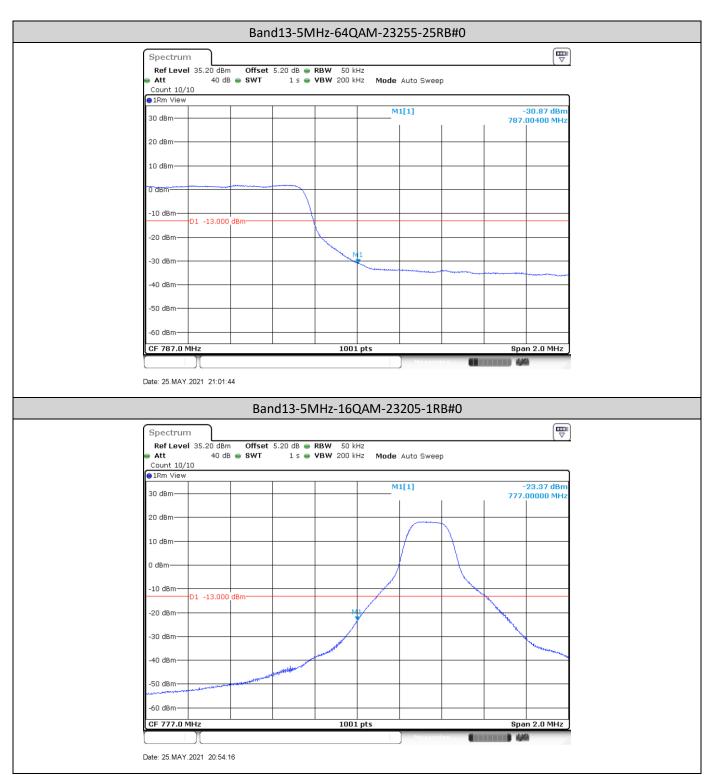


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Report No.: ZR/2021/4002101

Page: 22 of 39



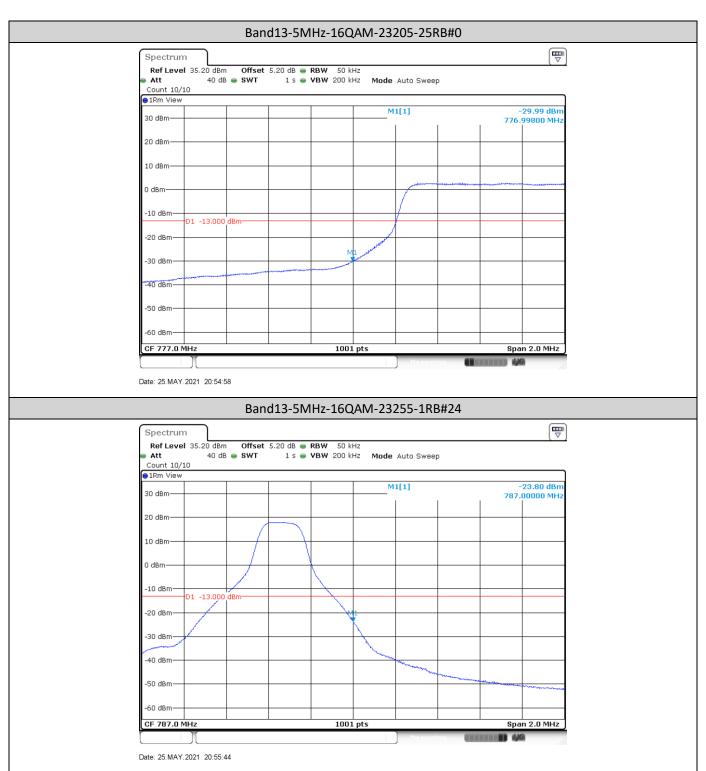


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Report No.: ZR/2021/4002101

Page: 23 of 39



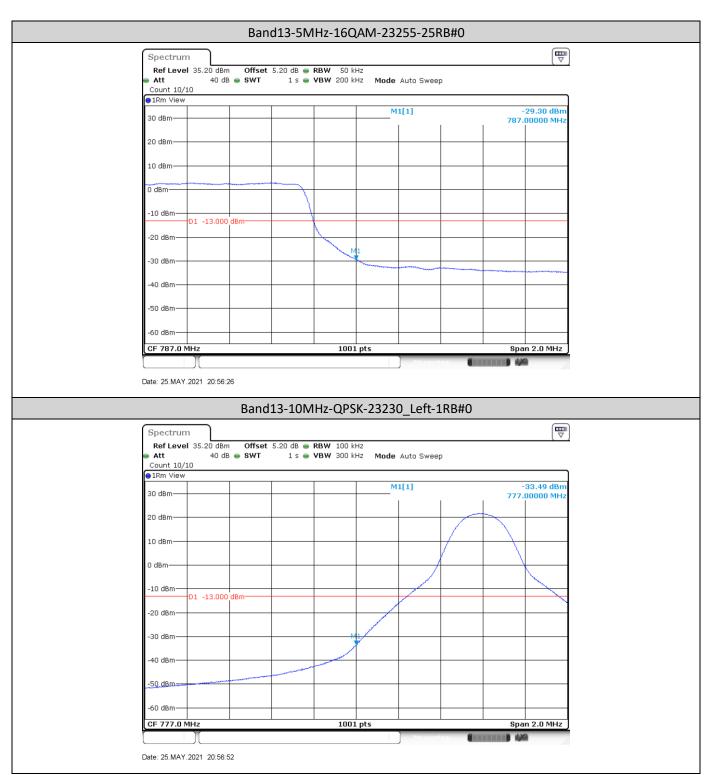


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Report No.: ZR/2021/4002101

Page: 24 of 39



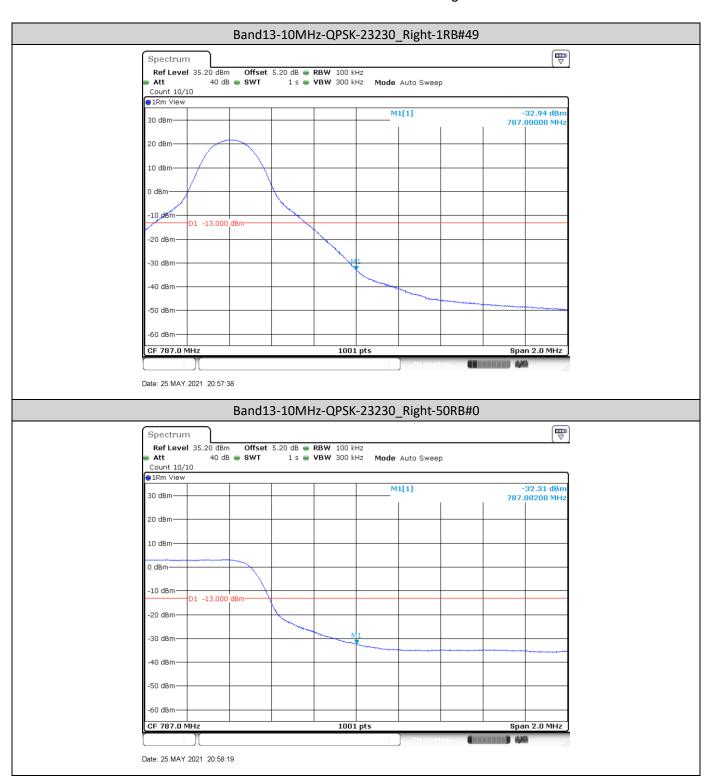


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Report No.: ZR/2021/4002101

Page: 25 of 39



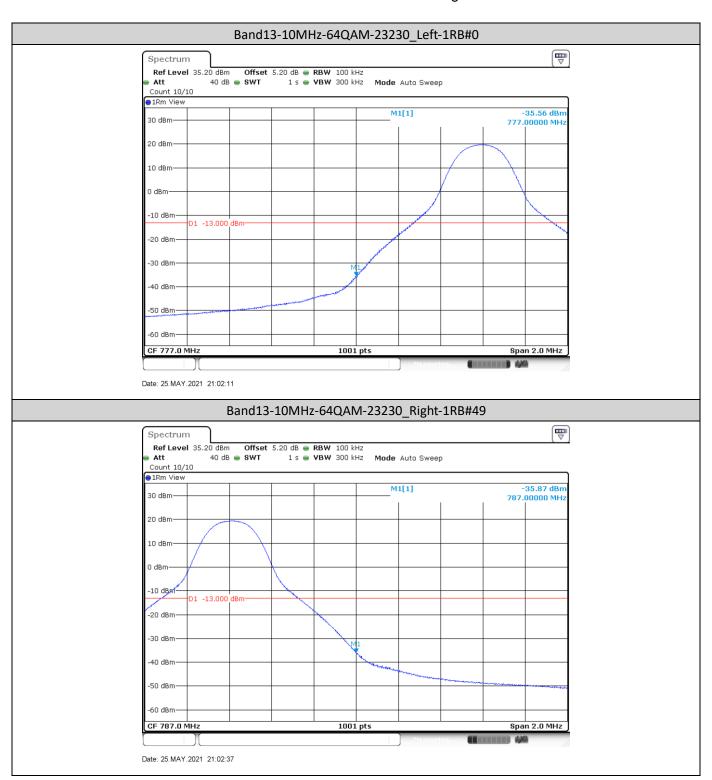


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Page: 26 of 39



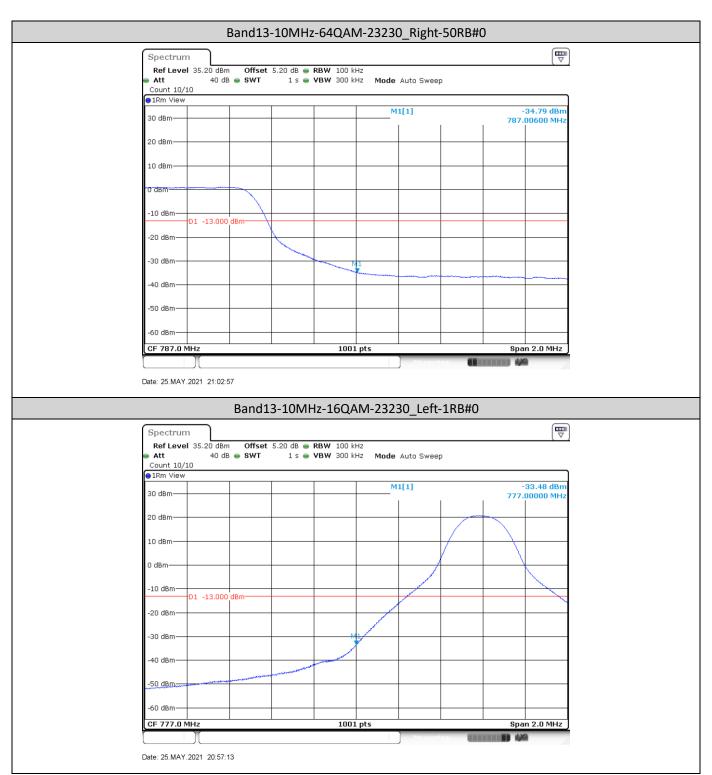


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Report No.: ZR/2021/4002101

Page: 27 of 39



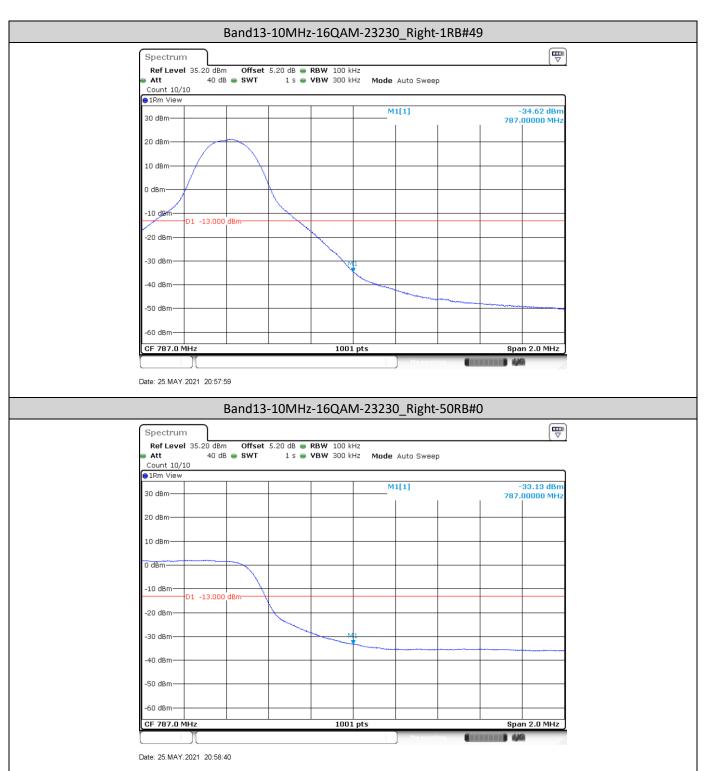


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Report No.: ZR/2021/4002101

Page: 28 of 39





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Page: 29 of 39

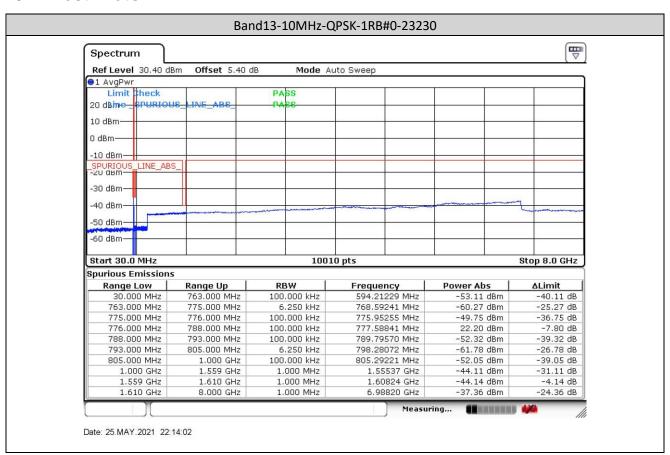
6. Spurious Emission at Antenna Terminal

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

Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark3: 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.

6.1. Test Plots

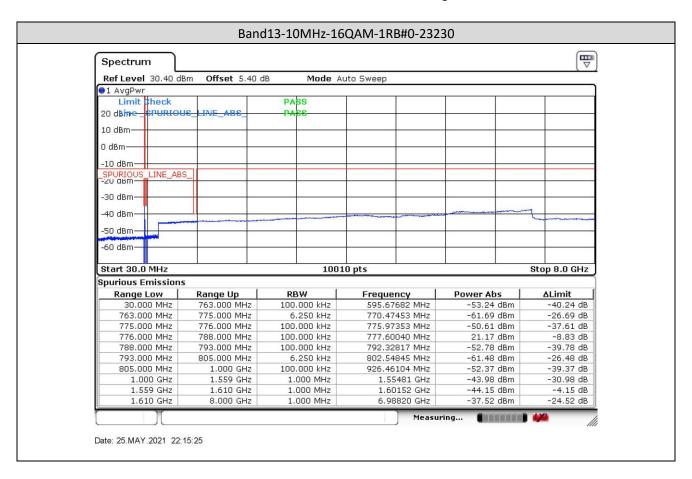






Report No.: ZR/2021/4002101

Page: 30 of 39





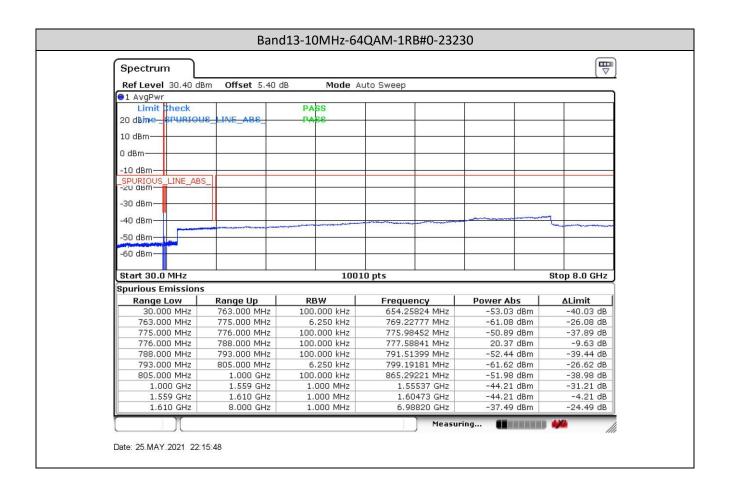
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Report No.: ZR/2021/4002101

Page: 31 of 39





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Page: 32 of 39

7. Field Strength of Spurious Radiation

7.1. Test Band = _ LTE_Band13

7.1.1. Test Channel = Low Channel

Susp	Suspected Data List										
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity					
1	1000.1000	21.26	-65.65	-13.00	52.65	Horizontal					
2	1677.5339	22.06	-66.92	-13.00	53.92	Horizontal					
3	2974.2987	22.30	-60.70	-13.00	47.70	Horizontal					
4	5273.7137	51.02	-58.06	-13.00	45.06	Horizontal					
5	7376.6188	50.00	-53.01	-13.00	40.01	Horizontal					
6	9761.6381	47.58	-50.69	-13.00	37.69	Horizontal					



Page: 33 of 39

7.2.Test Band = _ LTE_Band13 7.2.1. Test Channel = Low Channel

Susp	Suspected Data List										
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity					
1	1004.8002	21.80	-65.30	-13.00	52.30	Vertical					
2	1973.2487	22.03	-65.76	-13.00	52.76	Vertical					
3	2798.2899	22.68	-60.93	-13.00	47.93	Vertical					
4	3971.9986	52.39	-61.35	-13.00	48.35	Vertical					
5	6338.8169	50.85	-55.00	-13.00	42.00	Vertical					
6	9803.2902	48.09	-50.61	-13.00	37.61	Vertical					



Page: 34 of 39

7.3.Test Band = _ LTE_Band13 7.3.1. Test Channel = Mid Channel

Susp	Suspected Data List										
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity					
1	1003.4000	25.26	-63.65	-13.00	56.65	Horizontal					
2	1663.5423	23.06	-61.92	-13.00	52.35	Horizontal					
3	3125.1385	25.30	-63.70	-13.00	57.30	Horizontal					
4	5326.7621	36.02	-59.06	-13.00	42.06	Horizontal					
5	7411.7122	42.00	-61.01	-13.00	39.32	Horizontal					
6	9844.5321	50.58	47.69	-13.00	31.69	Horizontal					



Page: 35 of 39

7.4.Test Band = _ LTE_Band13 7.4.1. Test Channel = Mid Channel

Susp	Suspected Data List										
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity					
1	1004.8002	21.80	-65.30	-13.00	52.30	Vertical					
2	1973.2487	22.03	-65.76	-13.00	52.76	Vertical					
3	2798.2899	22.68	-60.93	-13.00	47.93	Vertical					
4	3971.9986	52.39	-61.35	-13.00	48.35	Vertical					
5	6338.8169	50.85	-55.00	-13.00	42.00	Vertical					
6	9803.2902	48.09	-50.61	-13.00	37.61	Vertical					



Page: 36 of 39

7.5.Test Band = _ LTE_Band13 7.5.1. Test Channel = High Channel

Susp	Suspected Data List										
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity					
1	1041.1000	19.34	-62.21	-13.00	51.42	Horizontal					
2	1346.1173	25.25	-63.89	-13.00	50.89	Horizontal					
3	1645.8000	-67.94	-49.09	-13.00	36.09	Horizontal					
4	2248.0000	-68.54	-44.52	-13.00	31.52	Horizontal					
5	5265.7600	-47.62	-46.75	-13.00	33.75	Horizontal					
6	9336.4000	-49.62	-42.94	-13.00	29.94	Horizontal					



Page: 37 of 39

7.6.Test Band = _ LTE_Band13 7.6.1. Test Channel = High Channel

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	1145.2783	-87.96	-66.40	-13.00	53.40	Vertical			
2	1111.5811	-86.43	-57.18	-13.00	44.18	Vertical			
3	1629.6000	-66.44	-47.66	-13.00	34.66	Vertical			
4	2223.3000	-68.56	-44.20	-13.00	31.20	Vertical			
5	5339.6800	-47.05	-46.51	-13.00	33.51	Vertical			
6	9356.0000	-49.28	-42.48	-13.00	29.48	Vertical			

Remark:

- According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 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 displayed in this report.

all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report



Page: 38 of 39

8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	0.40	0.000512	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	1.00	0.001279	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-0.10	-0.000128	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VL	NT	-0.40	-0.000512	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VN	NT	1.00	0.001279	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VH	NT	0.70	0.000895	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	0.40	0.000512	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	0.80	0.001023	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	-0.90	-0.001151	±2.5	PASS



Page: 39 of 39

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-0.40	-0.000512	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	1.70	0.002174	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	1.30	0.001662	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	0.20	0.000256	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	0.90	0.001151	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-0.10	-0.000128	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	0.60	0.000767	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-0.60	-0.000767	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-30	-0.30	-0.000384	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-20	2.30	0.002941	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-10	-0.90	-0.001151	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	0	0.30	0.000384	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	10	0.70	0.000895	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	20	0.40	0.000512	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	30	0.20	0.000256	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	40	2.10	0.002685	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	50	-0.40	-0.000512	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-1.10	-0.001407	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	-0.90	-0.001151	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	-0.70	-0.000895	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	1.00	0.001279	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	0.50	0.000639	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	0.40	0.000512	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	1.50	0.001918	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	0.90	0.001151	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	0.60	0.000767	±2.5	PASS

