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# Appendix B

LTE-M1 BAND 4



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### 1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE-M1 BAND 4

Lilect	ive isotropic	i Naulateu FOW	CI OI ITAIIS	minute (Envi	) 101 L1L-1411	DAND T		
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.84	24.44	30	PASS
			LCH	RB1#5	22.89	24.49	30	PASS
			RB6#0	21.99	23.59	30	PASS	
			RB1#0	22.97	24.57	30	PASS	
BAND4	BAND4 LTE- M1/TM1	1.4M	MCH	RB1#5	23.02	24.62	30	PASS
				RB6#0	22.02	23.62	30	PASS
				RB1#0	22.98	24.58	30	PASS
		HCH	RB1#5	23	24.6	30	PASS	
				RB6#0	21.89	23.49	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
		1.4M		RB1#0	22.24	23.84	30	PASS
	1.75		LCH	RB1#5	22.31	23.91	30	PASS
				RB6#0	21.23	22.83	30	PASS
			МСН	RB1#0	22.26	23.86	30	PASS
BAND4	LTE- M1/TM2			RB1#5	22.11	23.71	30	PASS
	IVI 1/ 1 IVIZ			RB6#0	21.21	22.81	30	PASS
				RB1#0	22.25	23.85	30	PASS
			HCH	RB1#5	22.31	23.91	30	PASS
				RB6#0	21.23	22.83	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.82	24.42	30	PASS
			LCH	RB1#5	22.77	24.37	30	PASS
			RB6#0	21.88	23.48	30	PASS	
			RB1#0	22.83	24.43	30	PASS	
BAND4	LTE- M1/TM1	ЗМ	MCH	RB1#5	22.87	24.47	30	PASS
	1011/11011			RB6#0	21.85	23.45	30	PASS
			RB1#0	22.81	24.41	30	PASS	
		HCH	RB1#5	22.72	24.32	30	PASS	
			RB6#0	21.83	23.43	30	PASS	

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	21.84	23.44	30	PASS
	BAND4 LTE- M1/TM2	3M	LCH	RB1#5	21.92	23.52	30	PASS
DAND4				RB6#0	20.74	22.34	30	PASS
DAND4				RB1#0	21.95	23.55	30	PASS
			MCH	RB1#5	22.01	23.61	30	PASS
				RB6#0	20.75	22.35	30	PASS

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		RB1#0	21.97	23.57	30	PASS
	HCH	RB1#5	22.11	23.71	30	PASS
		RB6#0	20.72	22.32	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.81	24.41	30	PASS
			LCH	RB1#5	22.74	24.34	30	PASS
			RB6#0	21.92	23.52	30	PASS	
		5M	МСН	RB1#0	22.75	24.35	30	PASS
BAND4	LTE- M1/TM1			RB1#5	22.78	24.38	30	PASS
	IVI I/ I IVI I			RB6#0	21.88	23.48	30	PASS
				RB1#0	22.81	24.41	30	PASS
		HCH	RB1#5	22.87	24.47	30	PASS	
				RB6#0	21.93	23.53	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.22	23.82	30	PASS
			LCH	RB1#5	22.28	23.88	30	PASS
			RB6#0	20.92	22.52	30	PASS	
		- 1 5M	МСН	RB1#0	22.26	23.86	30	PASS
BAND4	LTE- M1/TM2			RB1#5	22.28	23.88	30	PASS
	IVI I/ I IVIZ			RB6#0	20.88	22.48	30	PASS
			RB1#0	22.15	23.75	30	PASS	
		HCH	RB1#5	22.25	23.85	30	PASS	
1				RB6#0	20.95	22.55	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.74	24.34	30	PASS
			LCH	RB1#5	22.63	24.23	30	PASS
			RB6#0	21.87	23.47	30	PASS	
			RB1#0	22.85	24.45	30	PASS	
BAND4	LTE- M1/TM1	10M	MCH	RB1#5	22.66	24.26	30	PASS
	IVI I/ I IVI I			RB6#0	21.81	23.41	30	PASS
			RB1#0	22.75	24.35	30	PASS	
		HCH	RB1#5	22.77	24.37	30	PASS	
			RB6#0	21.82	23.42	30	PASS	

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.14	23.74	30	PASS
	DAND4 LTE-	10M	LCH	RB1#5	22.06	23.66	30	PASS
BAND4				RB6#0	20.78	22.38	30	PASS
DAND4	M1/TM2		MCH	RB1#0	22.22	23.82	30	PASS
				RB1#5	22.26	23.86	30	PASS
				RB6#0	20.8	22.4	30	PASS

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	RB1#0	22.14	23.74	30	PASS
HCH	RB1#5	22.16	23.76	30	PASS
	RB6#0	20.91	22.51	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.72	24.32	30	PASS
			LCH	RB1#5	22.57	24.17	30	PASS
				RB6#0	22.63	24.23	30	PASS
			RB1#0	22.76	24.36	30	PASS	
BAND4	LTE- M1/TM1	15M	MCH	RB1#5	22.73	24.33	30	PASS
	IVI I/ I IVI I			RB6#0	22.79	24.39	30	PASS
				RB1#0	22.67	24.27	30	PASS
			HCH	RB1#5	22.55	24.15	30	PASS
				RB6#0	22.67	24.27	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
		15M	LCH	RB1#0	22.12	23.72	30	PASS
				RB1#5	22.11	23.71	30	PASS
	LTE- M1/TM2			RB6#0	22.81	24.41	30	PASS
			MCH	RB1#0	22.29	23.89	30	PASS
BAND4				RB1#5	22.27	23.87	30	PASS
	IVI I/ I IVIZ			RB6#0	22.76	24.36	30	PASS
				RB1#0	22.4	24	30	PASS
			HCH	RB1#5	22.38	23.98	30	PASS
				RB6#0	22.67	24.27	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
		20M	LCH	RB1#0	22.78	24.38	30	PASS
				RB1#5	22.74	24.34	30	PASS
				RB6#0	22.83	24.43	30	PASS
			MCH	RB1#0	22.89	24.49	30	PASS
BAND4	LTE- M1/TM1			RB1#5	22.82	24.42	30	PASS
	1011/11011			RB6#0	22.93	24.53	30	PASS
				RB1#0	22.94	24.54	30	PASS
			HCH	RB1#5	22.83	24.43	30	PASS
				RB6#0	22.92	24.52	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
		2014	LCH	RB1#0	22.27	23.87	30	PASS
				RB1#5	22.14	23.74	30	PASS
BAND4	LTE-			RB6#0	22.08	23.68	30	PASS
DAND4	M1/TM2	20M		RB1#0	22.61	24.21	30	PASS
			MCH	RB1#5	22.67	24.27	30	PASS
				RB6#0	23.02	24.62	30	PASS

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	RB1#0	22.52	24.12	30	PASS
HCH	RB1#5	22.58	24.18	30	PASS
	RB6#0	23.02	24.62	30	PASS

#### Note:

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

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level



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### 2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
	TM1/5M Full RB	LCH	4.26	13	PASS
		MCH	4.29	13	PASS
		HCH	5.65	13	PASS
	TM1/5M 1 RB	LCH	4.38	13	PASS
		MCH	4.32	13	PASS
Band 4		HCH	4.03	13	PASS
Dallu 4	TM2/5M	LCH	5.77	13	PASS
		MCH	4.26	13	PASS
	Full RB	HCH	5.88	13	PASS
	TM2/5M	LCH	5.01	13	PASS
	TM2/5M 1 RB	MCH	5.04	13	PASS
		HCH	4.17	13	PASS

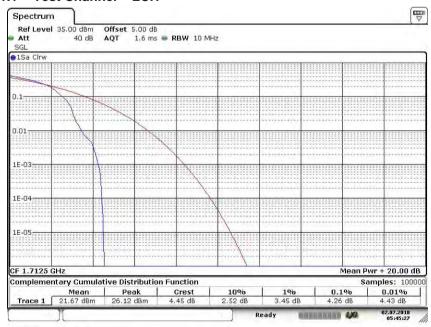
Part II - Test Plots

#### 2.1 For LTE-M1

#### 2.1.1 Test Band = LTE-M1 BAND4

#### 2.1.1.1 Test Mode = LTE-M1/TM1.Bandwidth=5MHz Full RB

#### 2.1.1.1.1 Test Channel = LCH



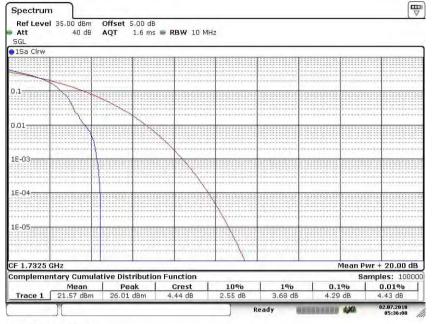
Date: 2.JUL.2018 05:45:27



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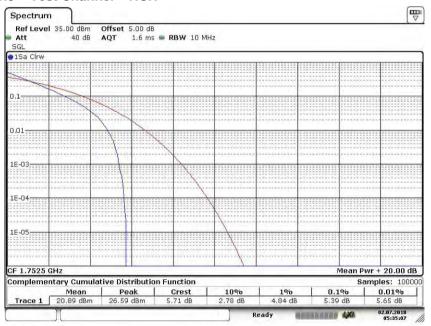
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#### 2.1.1.1.2 Test Channel = MCH



Date: 2.JUL.2018 05:36:09

#### 2.1.1.1.3 Test Channel = HCH



Date: 2.JUL.2018 05:35:08

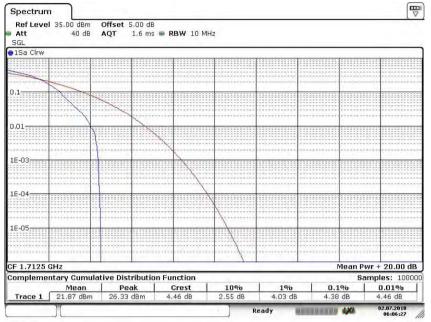


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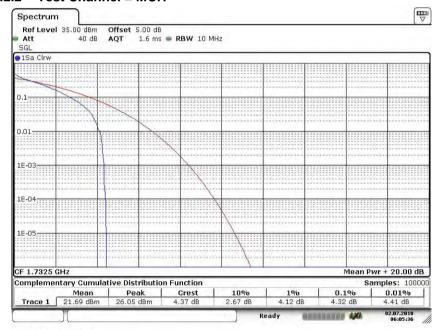
#### 2.1.1.2 Test Mode = LTE-M1/TM1.Bandwidth=5MHz 1 RB

#### 2.1.1.2.1 Test Channel = LCH



Date: 2.JUL.2018 06:06:27

#### 2.1.1.2.2 Test Channel = MCH



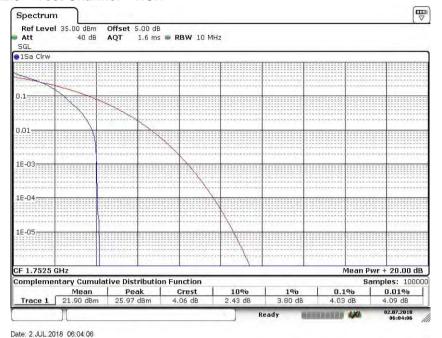
Date: 2.JUL.2018 06:05:37



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#### 2.1.1.2.3 Test Channel = HCH



#### Date: 2:002:2010 00:04:00

#### 2.1.1.3 Test Mode = LTE-M1/TM2.Bandwidth=5MHz Full RB

#### 2.1.1.3.1 Test Channel = LCH

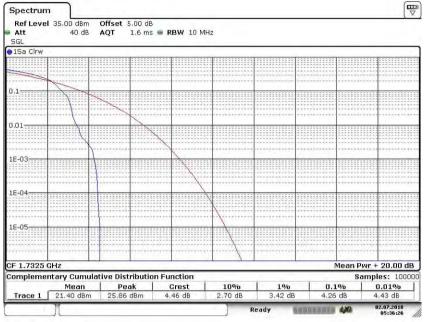




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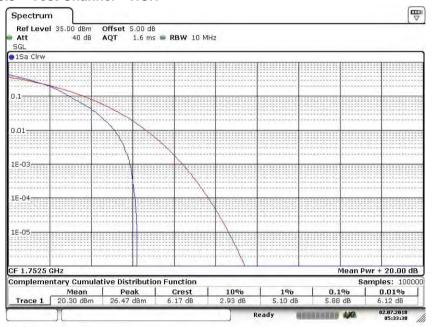
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#### 2.1.1.3.2 Test Channel = MCH



Date: 2.JUL.2018 05:36:26

#### 2.1.1.3.3 Test Channel = HCH



Date: 2.JUL.2018 05:33:38

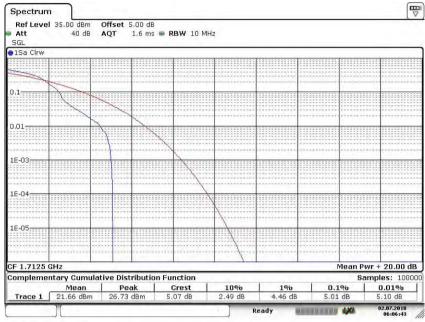


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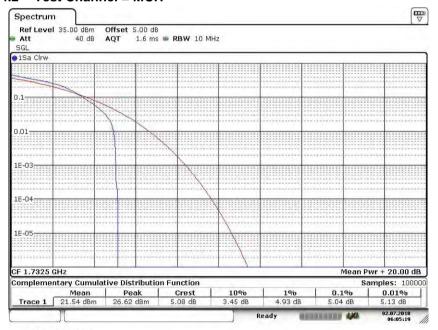
#### 2.1.1.4 Test Mode = LTE-M1/TM2.Bandwidth=5MHz 1 RB

#### 2.1.1.4.1 Test Channel = LCH



Date: 2.JUL.2018 06:06:44

#### 2.1.1.4.2 Test Channel = MCH



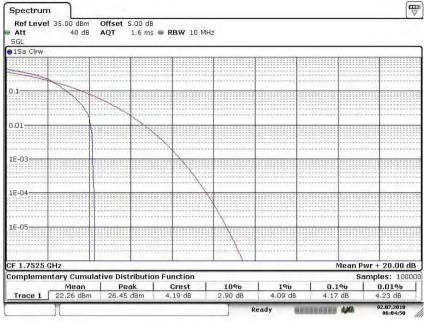
Date: 2.JUL.2018 06:05:19



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#### 2.1.1.4.3 Test Channel = HCH





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#### 3 Modulation Characteristics

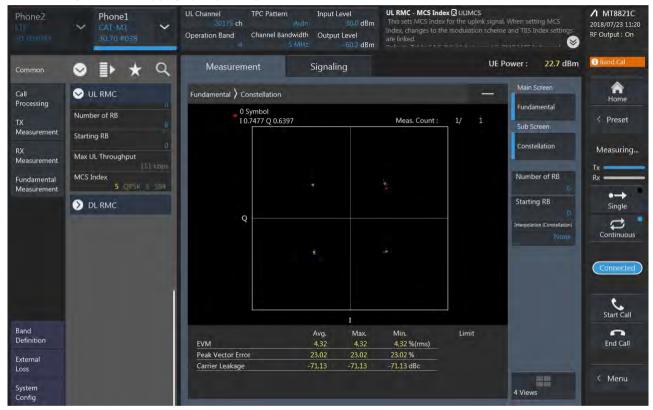
Part I - Test Plots

#### 3.1 For LTE-M1

#### 3.1.1 Test Band = LTE-M1 BAND4

#### 3.1.1.1 Test Mode = LTE-M1 /TM1 5MHz

3.1.1.1.1 Test Channel = MCH

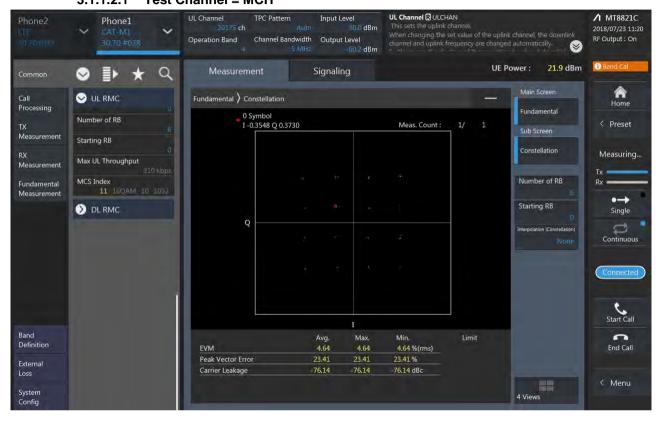




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#### 3.1.1.2 Test Mode = LTE-M1 /TM2 5MHz 3.1.1.2.1 Test Channel = MCH





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### 4 Bandwidth

#### Part I - Test Results

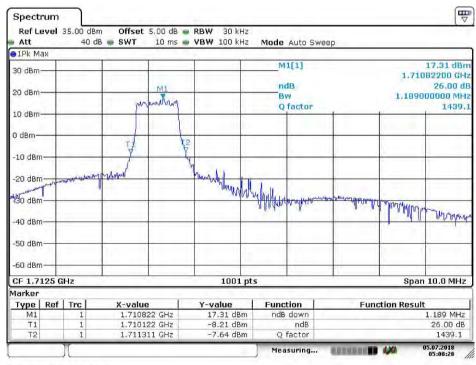
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		LCH	0.92	1.18	PASS
	TM1/ 5MHz	MCH	1.11	1.18	PASS
BAND4		HCH	1.10	1.16	PASS
DAIND4	TM2/ 5MHz	LCH	0.95	1.23	PASS
		MCH	1.12	1.22	PASS
		HCH	1.12	1.23	PASS

#### 4.1 For LTE

#### 4.1.1 Test Band = LTE-M1 BAND4

#### 4.1.1.1 Test Mode = LTE-M1/TM1 5MHz

#### 4.1.1.1.1 Test Channel = LCH

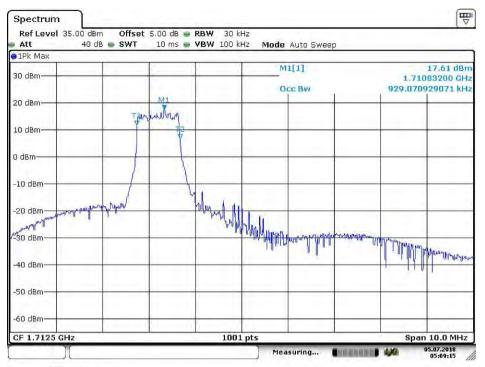


Date: 5.JUL.2018 05:08:28



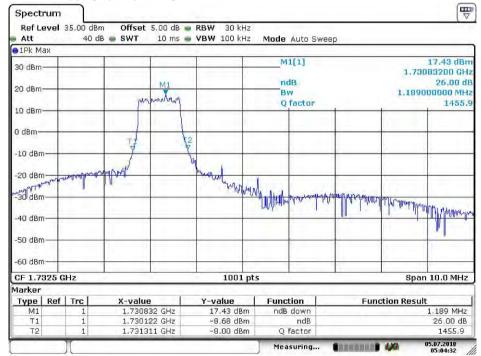
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Date: 5.JUL.2018 05:09:15

#### 4.1.1.1.2 Test Channel = MCH



Date: 5.JUL.2018 05:04:32



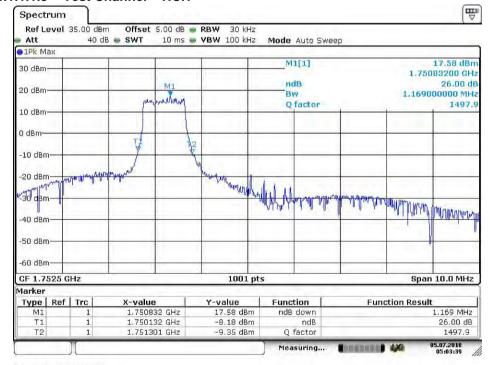
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Date: 5.JUL.2018 05:32:27

#### 4.1.1.1.3 Test Channel = HCH

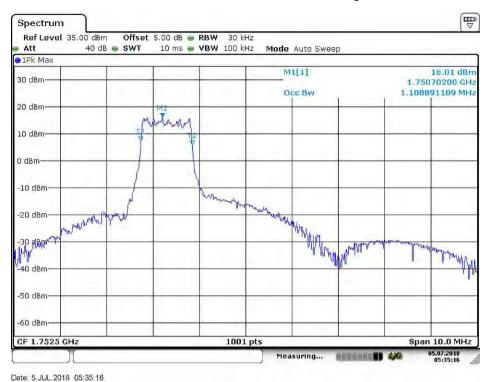


Date: 5.JUL.2018 05:03:39



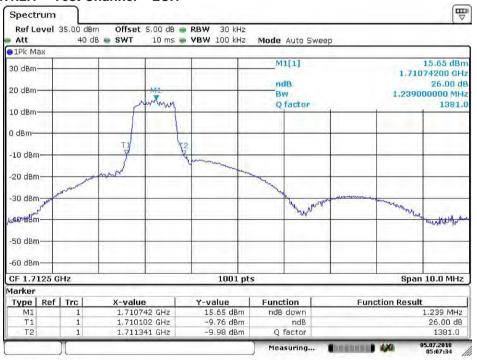
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#### 4.1.1.2 Test Mode = LTE-M1/TM2 5MHz

#### 4.1.1.2.1 Test Channel = LCH



Date: 5.JUL.2018 05:07:34



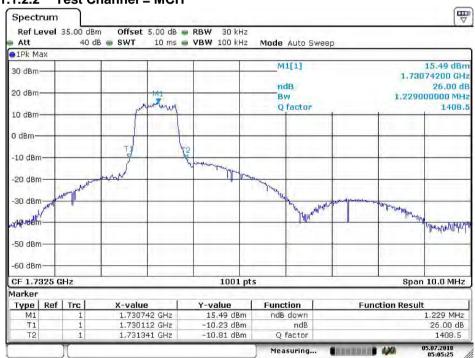
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Date: 5.JUL.2018 05:10:40

#### 4.1.1.2.2 Test Channel = MCH

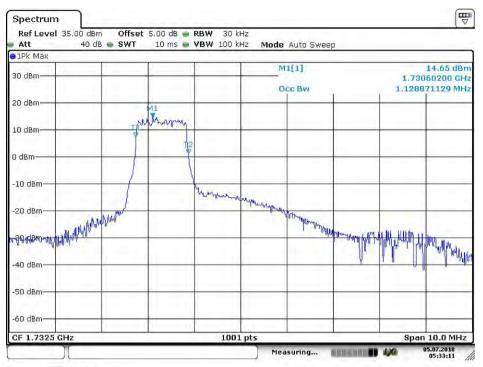


Date: 5.JUL.2018 05:05:25



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Date: 5.JUL.2018 05:33:11

#### 4.1.1.2.3 Test Channel = HCH



Date: 5.JUL.2018 05:03:03



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Date: 5.JUL.2018 05:34:21



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### 5 Band Edges Compliance

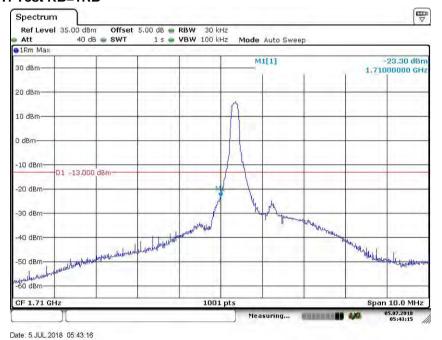
#### 5.1 For LTE-M1

#### 5.1.1 Test Band = LTE-M1 BAND4

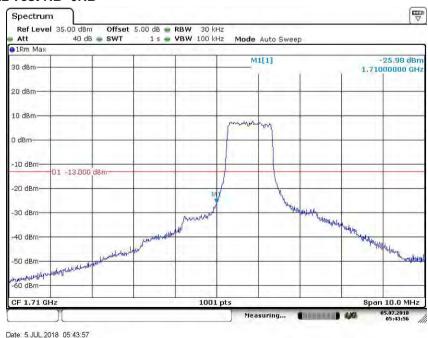
#### 5.1.1.1 Test Mode = LTE-M1/TM1 5MHz

**5.1.1.1.1** Test Channel = LCH

#### 5.1.1.1.1 Test RB=1RB



#### 5.1.1.1.1.2 Test RB=6RB



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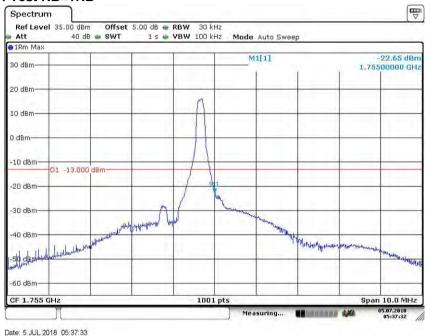


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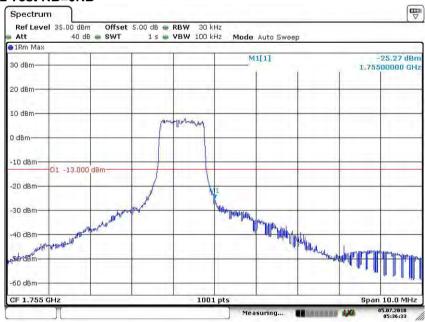
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#### 5.1.1.1.2 Test Channel = HCH

#### 5.1.1.1.2.1 Test RB=1RB



#### 5.1.1.1.2.2 Test RB=6RB



Date: 5.JUL.2018 05:36:34

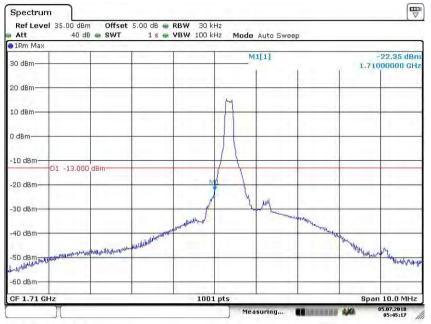


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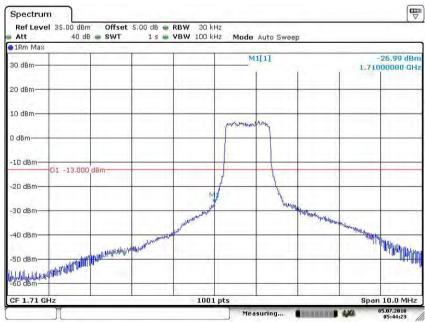
#### 5.1.1.2 Test Mode = LTE-M1/TM2 5MHz 5.1.1.2.1 Test Channel = LCH

#### 5.1.1.2.1.1 Test RB=1RB



Date: 5.JUL.2018 05:45:17

#### 5.1.1.2.1.2 Test RB=6RB



Date: 5.JUL.2018 05:44:23

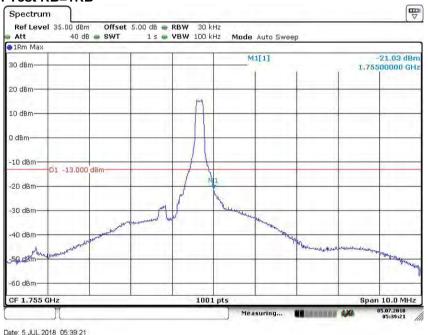


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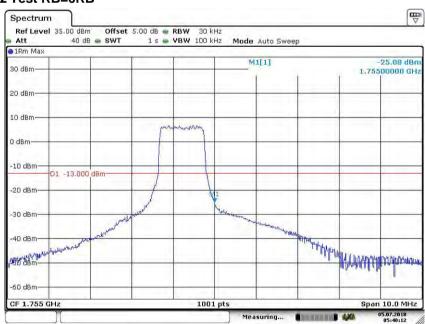
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#### 5.1.1.2.2 Test Channel = HCH

#### 5.1.1.2.2.1 Test RB=1RB



#### 5.1.1.2.2.2 Test RB=6RB



Date: 5.JUL.2018 05:40:13



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### 6 Spurious Emission at Antenna Terminal

NOTE1: 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.

NOTE2: only the worst case data displayed in this report.

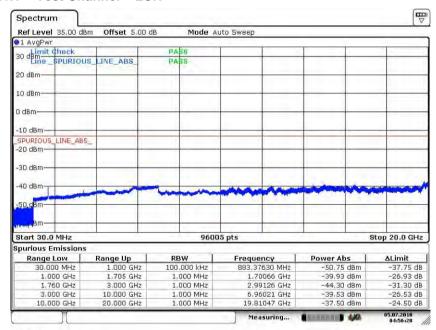
Part I - Test Plots

#### 6.1 For LTE-M1

#### 6.1.1 Test Band = LTE-M1 BAND4

#### 6.1.1.1 Test Mode = LTE-M1 / TM1 5MHz RB1#0

#### 6.1.1.1.1 Test Channel = LCH



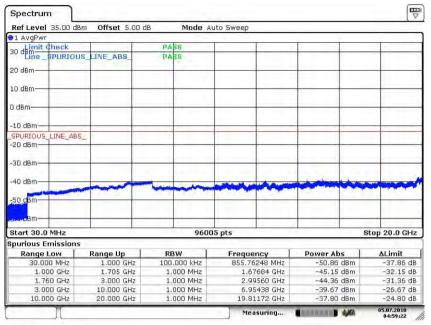
Date: 5.JUL.2018 04:56:28



Report No.: SZEM180400321702

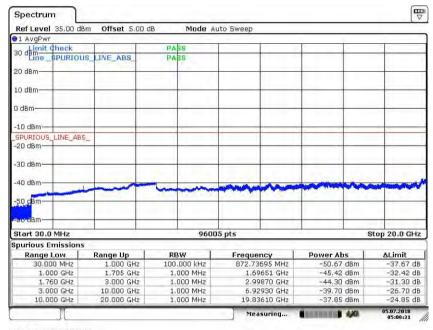
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#### 6.1.1.1.2 Test Channel = MCH



Date: 5.JUL.2018 04:59:21

#### 6.1.1.1.3 Test Channel = HCH



Date: 5.JUL.2018 05:00:31

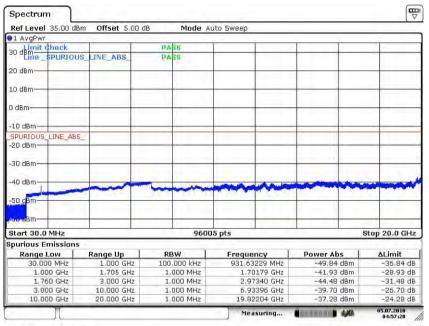


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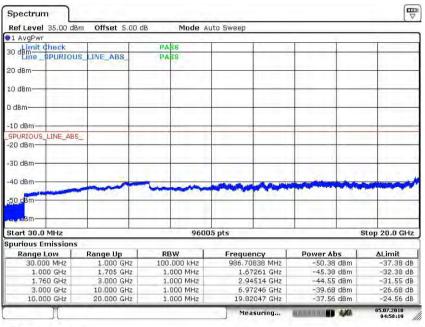
#### 6.1.1.2 Test Mode = LTE-M1 / TM2 5MHz RB1#0

#### 6.1.1.2.1 Test Channel = LCH



Date: 5.JUL.2018 04:57:28

#### 6.1.1.2.2 Test Channel = MCH



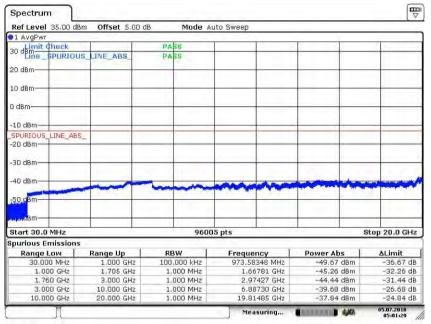
Date: 5.JUL.2018 04:58:19



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#### 6.1.1.2.3 Test Channel = HCH



Date: 5.JUL.2018 05:01:29



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### 7 Field Strength of Spurious Radiation

#### **7.1 For LTE-M1**

#### 7.1.1 Test Band = LTE-M1 BAND4

#### 7.1.1.1 Test Mode =LTE-M1/TM1 5MHz RB1#0

7.1.1.1.1 Test Channel = LCH

/.1.1.1.1	Test Chailler = LC	/1 1		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
65.050000	-82.47	-13.00	-69.47	Vertical
124.950000	-87.58	-13.00	-74.58	Vertical
791.595833	-80.51	-13.00	-67.51	Vertical
3420.225000	-53.64	-13.00	-40.64	Vertical
5131.350000	-62.79	-13.00	-49.79	Vertical
6841.500000	-53.17	-13.00	-40.17	Vertical
62.650000	-77.74	-13.00	-64.74	Horizontal
110.750000	-93.38	-13.00	-80.38	Horizontal
268.750000	-87.06	-13.00	-74.06	Horizontal
3420.550000	-45.80	-13.00	-32.80	Horizontal
5131.025000	-61.05	-13.00	-48.05	Horizontal
6842.150000	-59.38	-13.00	-46.38	Horizontal

#### 7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
65.450000	-82.12	-13.00	-69.12	Vertical
125.000000	-87.29	-13.00	-74.29	Vertical
307.900000	-87.02	-13.00	-74.02	Vertical
3460.525000	-50.50	-13.00	-37.50	Vertical
5190.825000	-61.64	-13.00	-48.64	Vertical
6921.775000	-54.89	-13.00	-41.89	Vertical
62.450000	-77.68	-13.00	-64.68	Horizontal
111.050000	-93.43	-13.00	-80.43	Horizontal
265.000000	-87.14	-13.00	-74.14	Horizontal
3460.200000	-45.08	-13.00	-32.08	Horizontal
5190.500000	-64.21	-13.00	-51.21	Horizontal
6921.775000	-56.73	-13.00	-43.73	Horizontal



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#### 7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
65.150000	-82.19	-13.00	-69.19	Vertical
125.000000	-87.64	-13.00	-74.64	Vertical
1103.000000	-61.93	-13.00	-48.93	Vertical
3501.150000	-52.13	-13.00	-39.13	Vertical
5250.950000	-65.26	-13.00	-52.26	Vertical
7001.400000	-54.74	-13.00	-41.74	Vertical
62.100000	-78.43	-13.00	-65.43	Horizontal
300.300000	-87.33	-13.00	-74.33	Horizontal
1046.000000	-61.12	-13.00	-48.12	Horizontal
3501.150000	-55.85	-13.00	-42.85	Horizontal
5250.300000	-65.82	-13.00	-52.82	Horizontal
7002.050000	-61.34	-13.00	-48.34	Horizontal

#### NOTE:

- 1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics 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 Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				VL	-5.13	-0.002991	PASS
		LCH	TN	VN	-8.66	-0.005047	PASS
				VH	-9.96	-0.005809	PASS
				VL	6.69	0.003859	PASS
	LTE-M1/TM1 5MHz	MCH	TN	VN	-6.87	-0.003967	PASS
	JIVII IZ			VH	5.30	0.003058	PASS
		нсн	TN	VL	9.17	0.005238	PASS
				VN	-0.30	-0.000174	PASS
LTE-M1				VH	-0.76	-0.000434	PASS
BAND4			TN	VL	4.49	0.002616	PASS
		LCH		VN	-2.37	-0.001382	PASS
				VH	8.11	0.004727	PASS
	L TE 144 /T140			VL	-6.02	-0.003476	PASS
	LTE-M1/TM2 5MHz	MCH	TN	VN	3.88	0.002239	PASS
	01/11/12			VH	7.45	0.004301	PASS
		НСН		VL	8.26	0.004720	PASS
			TN	VN	3.05	0.001744	PASS
				VH	2.02	0.001154	PASS



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### 8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-3.59	-0.002094	PASS
				-20	2.09	0.001218	PASS
				-10	2.54	0.001484	PASS
			VN	0	-9.41	-0.005488	PASS
		LCH		10	-8.64	-0.005038	PASS
				20	-9.60	-0.005599	PASS
				30	-8.42	-0.004909	PASS
				40	7.08	0.004128	PASS
				50	-9.72	-0.005669	PASS
			VN	-30	8.01	0.004623	PASS
				-20	-8.20	-0.004734	PASS
		МСН		-10	2.04	0.001179	PASS
LTE-M1	1 TE 144 (T144			0	6.94	0.004006	PASS
BAND4	LTE-M1/TM1 5MHz			10	2.40	0.001386	PASS
				20	-7.48	-0.004320	PASS
				30	-2.12	-0.001222	PASS
				40	8.58	0.004952	PASS
				50	3.21	0.001853	PASS
				-30	3.43	0.001961	PASS
				-20	8.51	0.004864	PASS
				-10	9.61	0.005493	PASS
				0	-1.67	-0.000954	PASS
		HCH	VN	10	6.52	0.003728	PASS
				20	2.55	0.001458	PASS
				30	9.93	0.005672	PASS
				40	0.29	0.000166	PASS
				50	6.28	0.003590	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
				-30	2.73	0.001591	PASS		
				-20	4.57	0.002663	PASS		
			VN			-10	9.05	0.005277	PASS
				0	-5.05	-0.002943	PASS		
		LCH		10	-1.95	-0.001137	PASS		
				20	1.14	0.000665	PASS		
				30	-3.56	-0.002079	PASS		
				40	-6.61	-0.003854	PASS		
				50	-9.44	-0.005503	PASS		
			VN	-30	3.67	0.002120	PASS		
				-20	0.90	0.000522	PASS		
				-10	8.16	0.004711	PASS		
LTE-M1	LTE-M1/TM2			0	-6.83	-0.003944	PASS		
BAND4	5MHz	MCH		10	2.53	0.001461	PASS		
				20	-0.48	-0.000277	PASS		
				30	7.86	0.004539	PASS		
				40	9.37	0.005407	PASS		
				50	-6.72	-0.003879	PASS		
				-30	-2.33	-0.001333	PASS		
				-20	6.10	0.003484	PASS		
				-10	9.47	0.005413	PASS		
				0	-8.26	-0.004718	PASS		
		HCH	VN	10	-7.86	-0.004493	PASS		
				20	2.69	0.001536	PASS		
				30	0.87	0.000495	PASS		
				40	1.62	0.000924	PASS		
				50	-5.29	-0.003022	PASS		

The End