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Appendix B

E-UTRA BAND 4



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1 Effective (Isotropic) Radiated Power Output Data

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

		Radiated Pow		mitter (EIRF				
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.94	25.94	33.00	PASS
				RB1#2	22.94	25.94	33.00	PASS
				RB1#5	22.88	25.88	33.00	PASS
			LCH	RB3#0	22.84	25.84	33.00	PASS
				RB3#2	22.73	25.73	33.00	PASS
				RB3#3	22.68	25.68	33.00	PASS
				RB6#0	21.72	24.72	33.00	PASS
				RB1#0	22.72	25.72	33.00	PASS
				RB1#2	22.47	25.47	33.00	PASS
				RB1#5	22.38	25.38	33.00	PASS
BAND 4	LTE/TM1	1.4M	MCH	RB3#0	22.53	25.53	33.00	PASS
				RB3#2	22.62	25.62	33.00	PASS
				RB3#3	22.50	25.5	33.00	PASS
				RB6#0	21.67	24.67	33.00	PASS
				RB1#0	22.91	25.91	33.00	PASS
				RB1#2	22.53	25.53	33.00	PASS
				RB1#5	22.94	25.94	33.00	PASS
			HCH	RB3#0	22.74	25.74	33.00	PASS
				RB3#2	22.64	25.64	33.00	PASS
				RB3#3	22.76	25.76	33.00	PASS
				RB6#0	21.70	24.7	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.02	25.02	33.00	PASS
				RB1#2	22.16	25.16	33.00	PASS
				RB1#5	22.04	25.04	33.00	PASS
			LCH	RB3#0	21.59	24.59	33.00	PASS
				RB3#2	21.59	24.59	33.00	PASS
				RB3#3	21.53	24.53	33.00	PASS
				RB6#0	20.82	23.82	33.00	PASS
				RB1#0	21.47	24.47	33.00	PASS
				RB1#2	21.67	24.67	33.00	PASS
				RB1#5	21.72	24.72	33.00	PASS
BAND 4	LTE/TM2	1.4M	MCH	RB3#0	21.56	24.56	33.00	PASS
				RB3#2	21.57	24.57	33.00	PASS
				RB3#3	21.56	24.56	33.00	PASS
				RB6#0	20.56	23.56	33.00	PASS
				RB1#0	21.77	24.77	33.00	PASS
				RB1#2	21.85	24.85	33.00	PASS
				RB1#5	21.90	24.9	33.00	PASS
			HCH	RB3#0	21.49	24.49	33.00	PASS
				RB3#2	21.39	24.39	33.00	PASS
				RB3#3	21.37	24.37	33.00	PASS
				RB6#0	20.65	23.65	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	21.73	24.73	33.00	PASS
				RB1#7	22.75	25.75	33.00	PASS
				RB1#14	22.45	25.45	33.00	PASS
			LCH	RB8#0	22.73	25.73	33.00	PASS
				RB8#4	21.68	24.68	33.00	PASS
				RB8#7	21.67	24.67	33.00	PASS
				RB15#0	21.76	24.76	33.00	PASS
				RB1#0	21.55	24.55	33.00	PASS
				RB1#7	22.91	25.91	33.00	PASS
				RB1#14	22.63	25.63	33.00	PASS
BAND 4	LTE/TM1	ЗМ	MCH	RB8#0	22.67	25.67	33.00	PASS
				RB8#4	21.70	24.7	33.00	PASS
				RB8#7	21.70	24.7	33.00	PASS
				RB15#0	21.78	24.78	33.00	PASS
				RB1#0	21.79	24.79	33.00	PASS
				RB1#7	22.33	25.33	33.00	PASS
				RB1#14	22.82	25.82	33.00	PASS
			HCH	RB8#0	22.66	25.66	33.00	PASS
				RB8#4	21.58	24.58	33.00	PASS
				RB8#7	21.59	24.59	33.00	PASS
				RB15#0	21.79	24.79	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.62	23.62	33.00	PASS
				RB1#7	21.85	24.85	33.00	PASS
				RB1#14	21.54	24.54	33.00	PASS
			LCH	RB8#0	21.71	24.71	33.00	PASS
				RB8#4	20.57	23.57	33.00	PASS
				RB8#7	20.82	23.82	33.00	PASS
				RB15#0	20.82	23.82	33.00	PASS
				RB1#0	20.49	23.49	33.00	PASS
				RB1#7	21.93	24.93	33.00	PASS
				RB1#14	21.49	24.49	33.00	PASS
BAND 4	LTE/TM2	3M	MCH	RB8#0	21.76	24.76	33.00	PASS
				RB8#4	20.64	23.64	33.00	PASS
				RB8#7	20.64	23.64	33.00	PASS
				RB15#0	20.49	23.49	33.00	PASS
				RB1#0	20.82	23.82	33.00	PASS
				RB1#7	21.52	24.52	33.00	PASS
				RB1#14	21.82	24.82	33.00	PASS
			HCH	RB8#0	21.57	24.57	33.00	PASS
				RB8#4	20.66	23.66	33.00	PASS
				RB8#7	20.74	23.74	33.00	PASS
				RB15#0	20.76	23.76	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	21.72	24.72	33.00	PASS
				RB1#13	21.61	24.61	33.00	PASS
				RB1#24	21.73	24.73	33.00	PASS
			LCH	RB12#0	22.74	25.74	33.00	PASS
				RB12#6	22.86	25.86	33.00	PASS
				RB12#13	22.62	25.62	33.00	PASS
				RB25#0	21.64	24.64	33.00	PASS
				RB1#0	21.72	24.72	33.00	PASS
				RB1#13	21.66	24.66	33.00	PASS
				RB1#24	21.72	24.72	33.00	PASS
BAND 4	LTE/TM1	5M	MCH	RB12#0	22.97	25.97	33.00	PASS
				RB12#6	22.91	25.91	33.00	PASS
				RB12#13	22.57	25.57	33.00	PASS
				RB25#0	21.63	24.63	33.00	PASS
				RB1#0	21.66	24.66	33.00	PASS
				RB1#13	21.89	24.89	33.00	PASS
			RB1#24	21.67	24.67	33.00	PASS	
		нсн	RB12#0	22.51	25.51	33.00	PASS	
			RB12#6	22.85	25.85	33.00	PASS	
			RB12#13	22.94	25.94	33.00	PASS	
				RB25#0	21.71	24.71	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.83	23.83	33.00	PASS
				RB1#13	20.72	23.72	33.00	PASS
				RB1#24	20.83	23.83	33.00	PASS
			LCH	RB12#0	21.64	24.64	33.00	PASS
				RB12#6	21.72	24.72	33.00	PASS
				RB12#13	21.61	24.61	33.00	PASS
				RB25#0	20.67	23.67	33.00	PASS
				RB1#0	20.62	23.62	33.00	PASS
				RB1#13	20.50	23.5	33.00	PASS
			МСН	RB1#24	20.62	23.62	33.00	PASS
BAND 4	LTE/TM2	5M		RB12#0	21.78	24.78	33.00	PASS
				RB12#6	21.69	24.69	33.00	PASS
				RB12#13	21.59	24.59	33.00	PASS
				RB25#0	20.69	23.69	33.00	PASS
				RB1#0	20.70	23.7	33.00	PASS
				RB1#13	20.79	23.79	33.00	PASS
				RB1#24	20.65	23.65	33.00	PASS
		нсн	RB12#0	21.28	24.28	33.00	PASS	
				RB12#6	21.27	24.27	33.00	PASS
				RB12#13	21.67	24.67	33.00	PASS
				RB25#0	20.84	23.84	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.82	25.82	33.00	PASS
				RB1#25	22.82	25.82	33.00	PASS
				RB1#49	22.75	25.75	33.00	PASS
			LCH	RB25#0	21.76	24.76	33.00	PASS
				RB25#13	21.77	24.77	33.00	PASS
				RB25#25	21.77	24.77	33.00	PASS
				RB50#0	21.70	24.7	33.00	PASS
				RB1#0	22.50	25.5	33.00	PASS
				RB1#25	22.93	25.93	33.00	PASS
		10M	MCH	RB1#49	22.48	25.48	33.00	PASS
BAND 4	LTE/TM1			RB25#0	21.84	24.84	33.00	PASS
				RB25#13	21.82	24.82	33.00	PASS
				RB25#25	21.60	24.6	33.00	PASS
				RB50#0	21.69	24.69	33.00	PASS
				RB1#0	22.55	25.55	33.00	PASS
				RB1#25	23.00	26	33.00	PASS
				RB1#49	22.77	25.77	33.00	PASS
			НСН	RB25#0	21.68	24.68	33.00	PASS
				RB25#13	21.72	24.72	33.00	PASS
				RB25#25	21.82	24.82	33.00	PASS
				RB50#0	21.65	24.65	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.70	25.7	33.00	PASS
				RB1#38	22.67	25.67	33.00	PASS
				RB1#74	22.62	25.62	33.00	PASS
			LCH	RB36#0	22.59	25.59	33.00	PASS
				RB36#18	22.58	25.58	33.00	PASS
				RB36#39	22.60	25.6	33.00	PASS
				RB75#0	21.79	24.79	33.00	PASS
				RB1#0	22.88	25.88	33.00	PASS
				RB1#38	22.90	25.9	33.00	PASS
		15M	MCH	RB1#74	22.52	25.52	33.00	PASS
BAND 4	LTE/TM1			RB36#0	22.98	25.98	33.00	PASS
				RB36#18	22.88	25.88	33.00	PASS
				RB36#39	22.48	25.48	33.00	PASS
				RB75#0	21.79	24.79	33.00	PASS
				RB1#0	22.57	25.57	33.00	PASS
				RB1#38	22.67	25.67	33.00	PASS
				RB1#74	22.67	25.67	33.00	PASS
			HCH	RB36#0	22.53	25.53	33.00	PASS
				RB36#18	22.55	25.55	33.00	PASS
				RB36#39	22.72	25.72	33.00	PASS
				RB75#0	21.67	24.67	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	21.73	24.73	33.00	PASS
				RB1#50	22.83	25.83	33.00	PASS
				RB1#99	23.09	26.09	33.00	PASS
			LCH	RB50#0	22.61	25.61	33.00	PASS
				RB50#25	21.67	24.67	33.00	PASS
				RB50#50	21.70	24.7	33.00	PASS
				RB100#0	21.86	24.86	33.00	PASS
				RB1#0	21.75	24.75	33.00	PASS
				RB1#50	22.79	25.79	33.00	PASS
				RB1#99	22.93	25.93	33.00	PASS
BAND 4	LTE/TM1	20M	MCH	RB50#0	22.29	25.29	33.00	PASS
				RB50#25	21.71	24.71	33.00	PASS
				RB50#50	21.66	24.66	33.00	PASS
				RB100#0	21.56	24.56	33.00	PASS
				RB1#0	21.73	24.73	33.00	PASS
				RB1#50	22.60	25.6	33.00	PASS
				RB1#99	22.81	25.81	33.00	PASS
			HCH	RB50#0	22.58	25.58	33.00	PASS
				RB50#25	21.77	24.77	33.00	PASS
				RB50#50	21.75	24.75	33.00	PASS
				RB100#0	21.53	24.53	33.00	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
		LCH	4.09	13	PASS
BAND 4	TM1/20M	MCH	4.23	13	PASS
		HCH	3.88	13	PASS

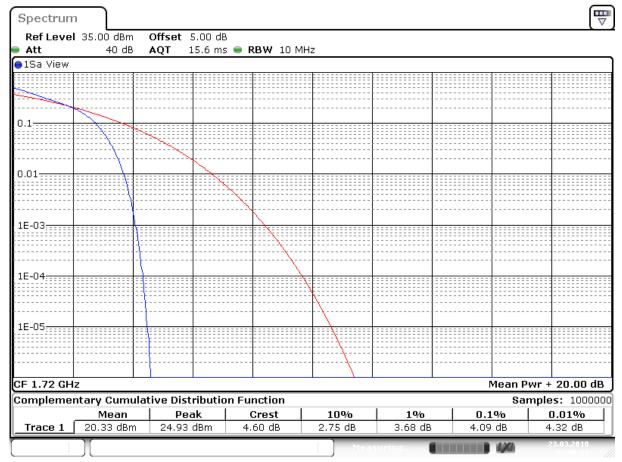
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE BAND 4

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=20MHz

2.1.1.1.1 Test Channel = LCH



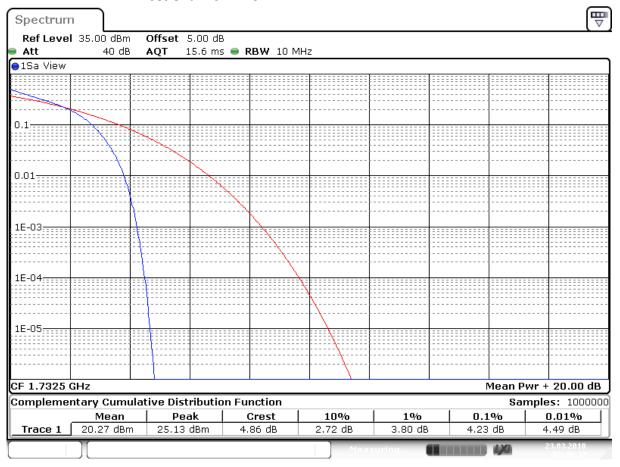
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2.1.1.1.2 Test Channel = MCH



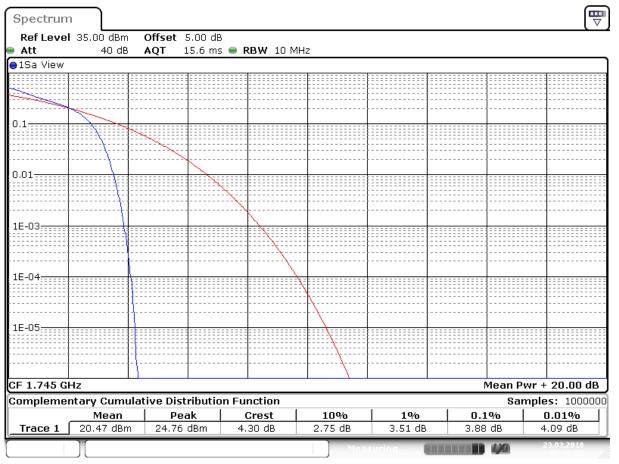
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2.1.1.1.3 Test Channel = HCH



Date: 23 M AR .2018 02:47:02



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3 Modulation Characteristics

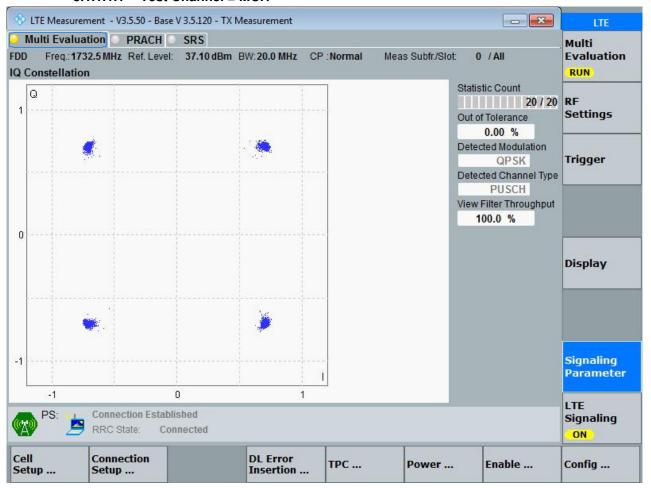
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE BAND 4

3.1.1.1 Test Mode = LTE /TM1 20MHz

3.1.1.1.1 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	1.091	1.221	PASS
	TM1/1.4MHz	MCH	1.088	1.221	PASS
		HCH	1.088	1.254	PASS
		LCH	1.091	1.248	PASS
	TM2/1.4MHz	MCH	1.088	1.221	PASS
		HCH	1.091	1.206	PASS
		LCH	2.697	2.904	PASS
	TM1/3MHz	MCH	2.697	2.868	PASS
		HCH	2.691	2.886	PASS
		LCH	2.697	2.892	PASS
	TM2/3MHz	MCH	2.697	2.862	PASS
		HCH	2.691	2.868	PASS
		LCH	4.476	4.710	PASS
BAND 4	TM1/5MHz	MCH	4.476	4.720	PASS
		HCH	4.476	4.760	PASS
		LCH	4.476	4.760	PASS
	TM2/ 5MHz	MCH	4.486	4.760	PASS
		HCH	4.486	4.740	PASS
		LCH	8.931	9.300	PASS
	TM1/10MHz	MCH	8.931	9.280	PASS
		HCH	8.931	9.300	PASS
	TM1/15MHz	LCH	13.431	14.842	PASS
		MCH	13.402	14.690	PASS
		HCH	13.433	14.72	PASS
		LCH	17.862	19.342	PASS
	TM1/20MHz	MCH	17.861	19.303	PASS
		HCH	17.823	19.184	PASS



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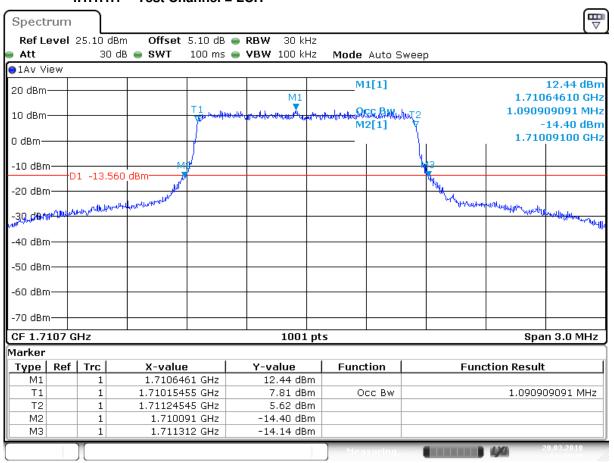
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4.1 For LTE

4.1.1 Test Band = LTE BAND 4

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

4.1.1.1.1 Test Channel = LCH

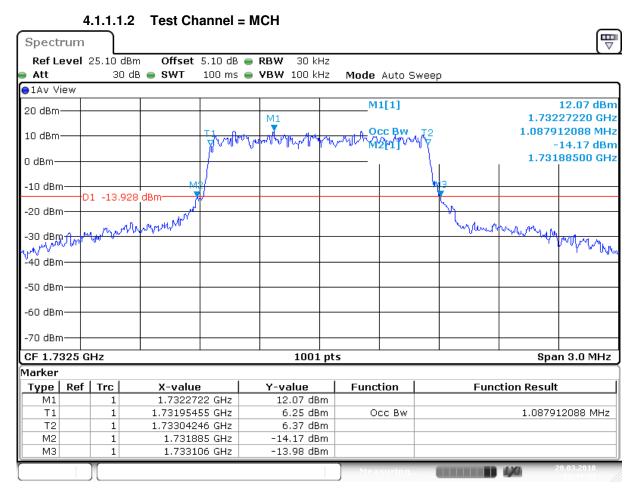


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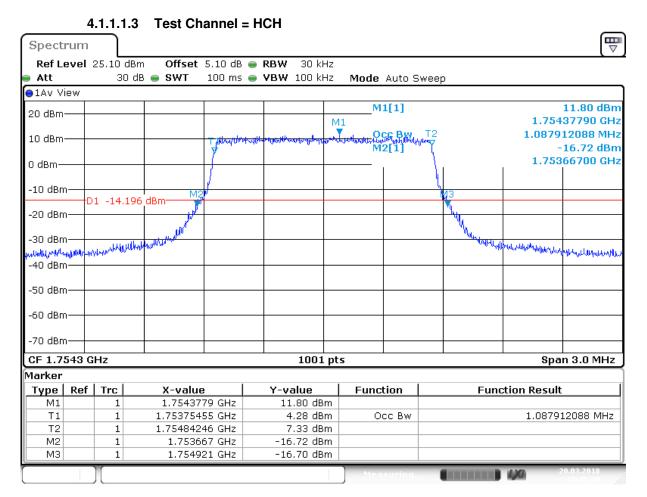


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Date: 20 M AR .2018 12:45:30

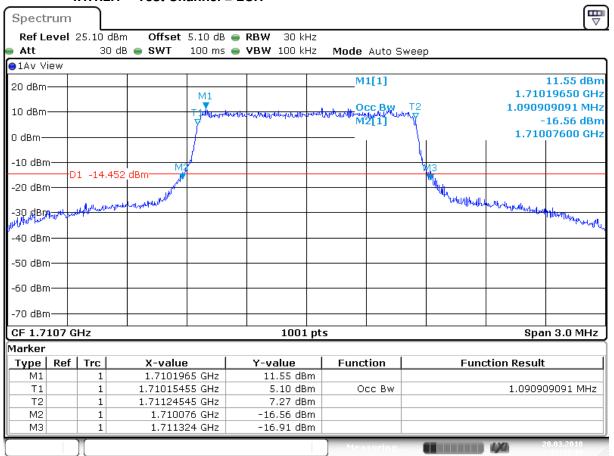


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4.1.1.2 Test Mode = LTE/TM2 1.4MHz

4.1.1.2.1 Test Channel = LCH

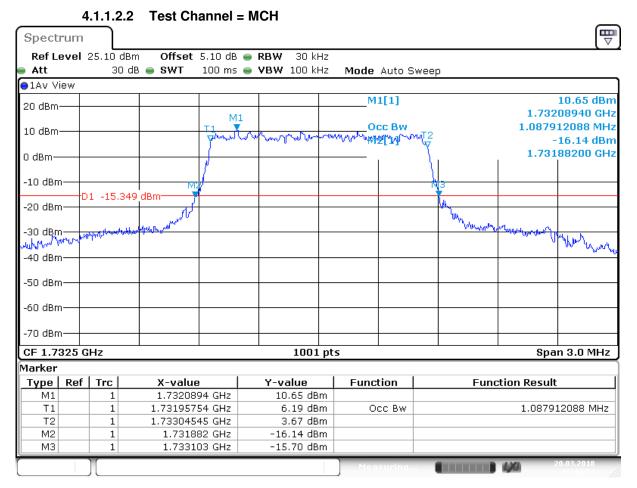


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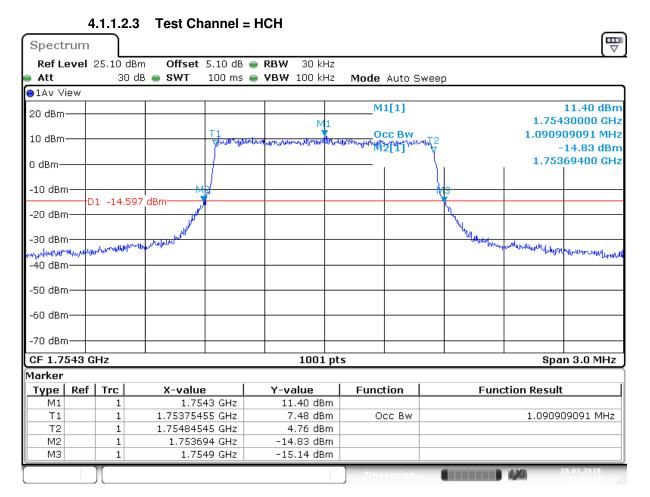


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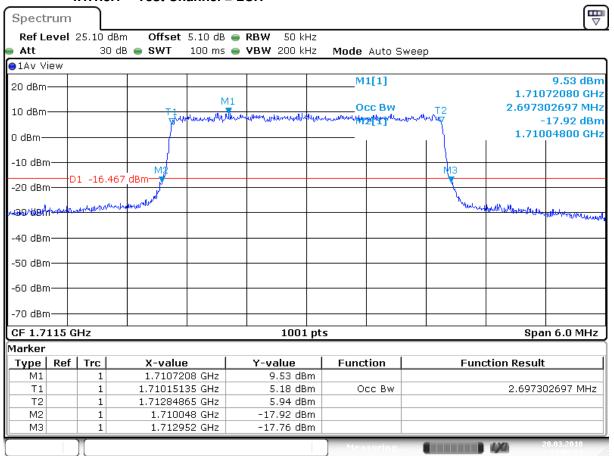


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4.1.1.3 Test Mode = LTE/TM1 3MHz

4.1.1.3.1 Test Channel = LCH

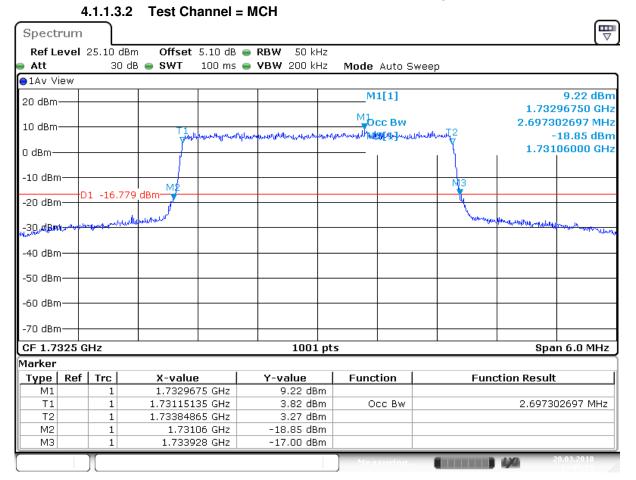


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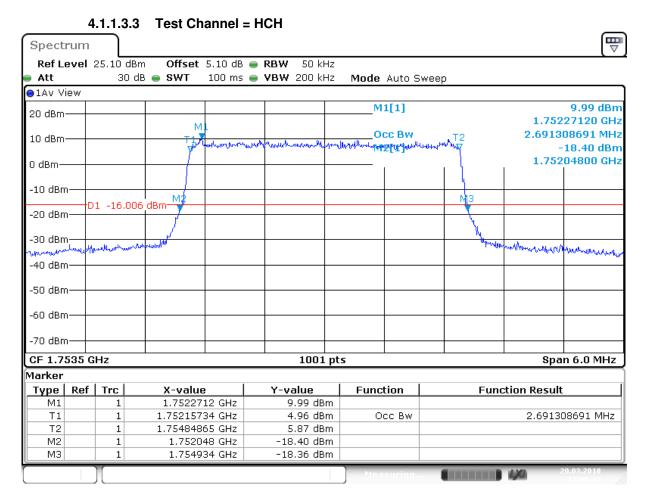


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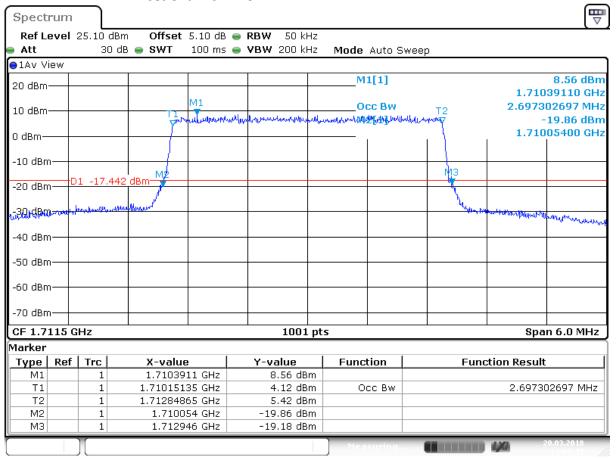


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4.1.1.4 Test Mode = LTE/TM2 3MHz

4.1.1.4.1 Test Channel = LCH

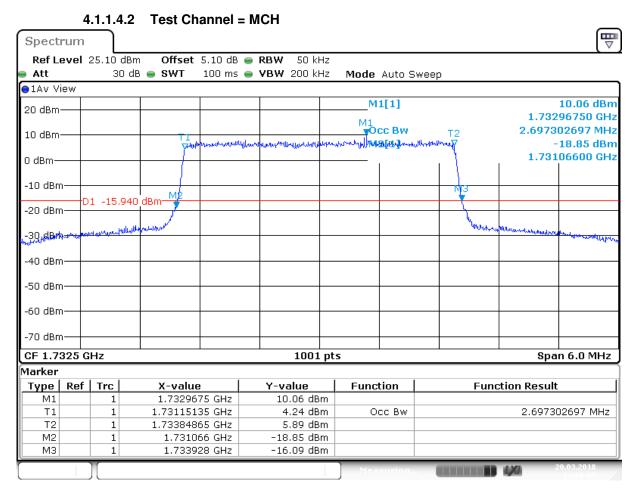


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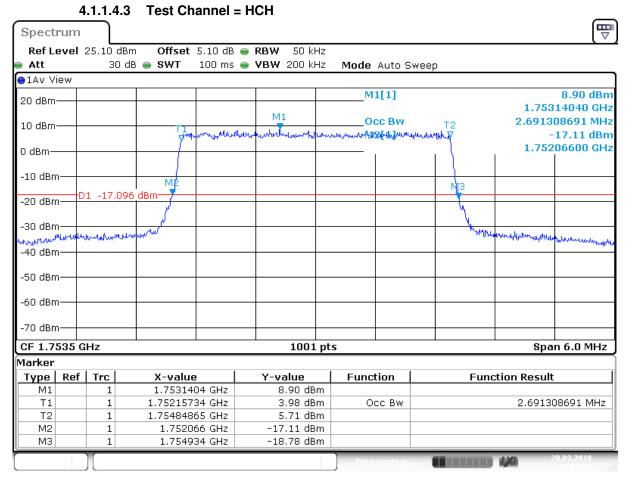


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Date: 20 M AR .2018 13:06:27

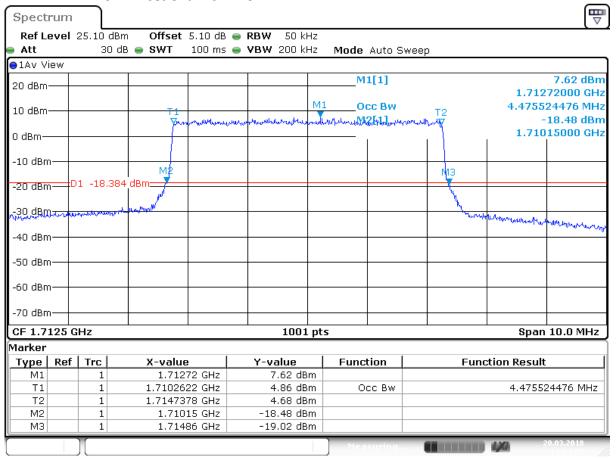


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4.1.1.5 Test Mode = LTE/TM1 5MHz

4.1.1.5.1 Test Channel = LCH

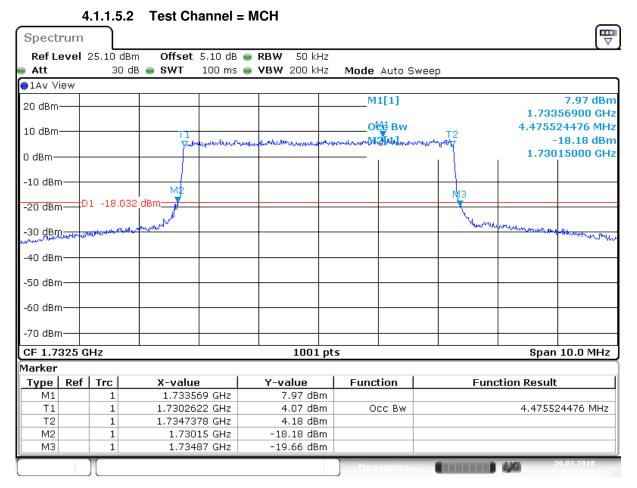


Date: 20 M AR .2018 13:24:22



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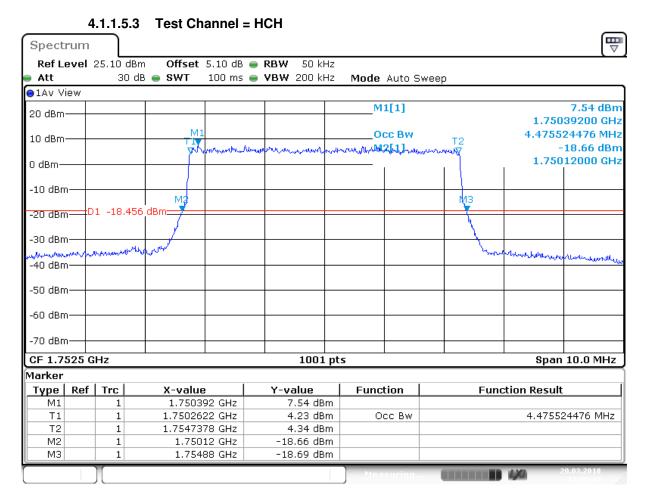


Date: 20 M AR .2018 13:24:58



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Date: 20 M AR .2018 13:25:34

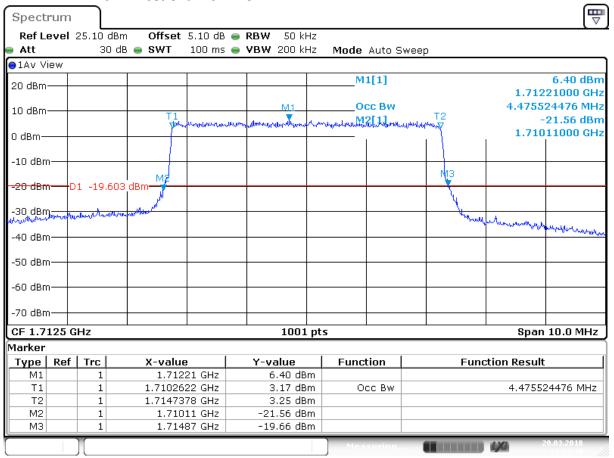


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4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH

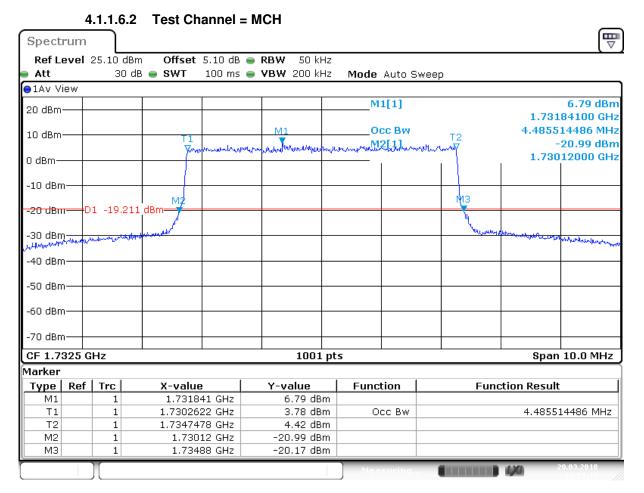


Date: 20 MAR 2018 13:24:38



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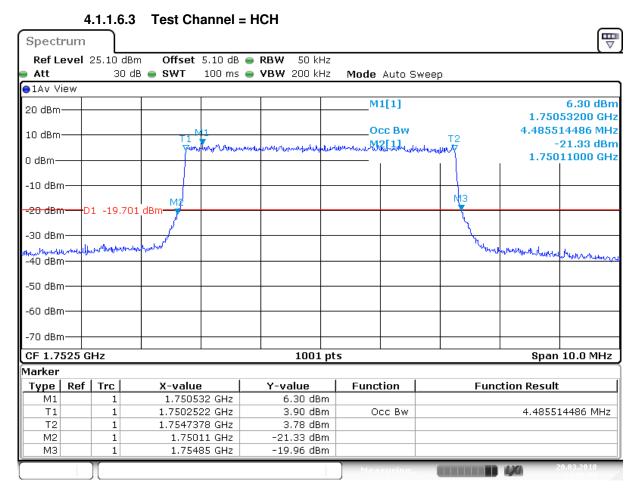


Date: 20 M AR .2018 13:25:15



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Date: 20 M AR 2018 13:25:51

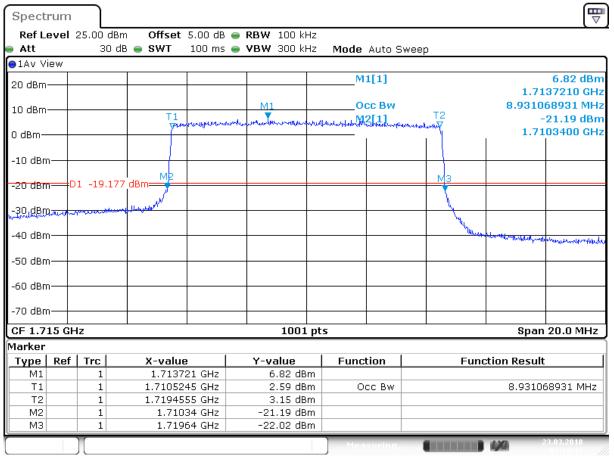


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4.1.1.7 Test Mode = LTE/TM1 10MHz

4.1.1.7.1 Test Channel = LCH

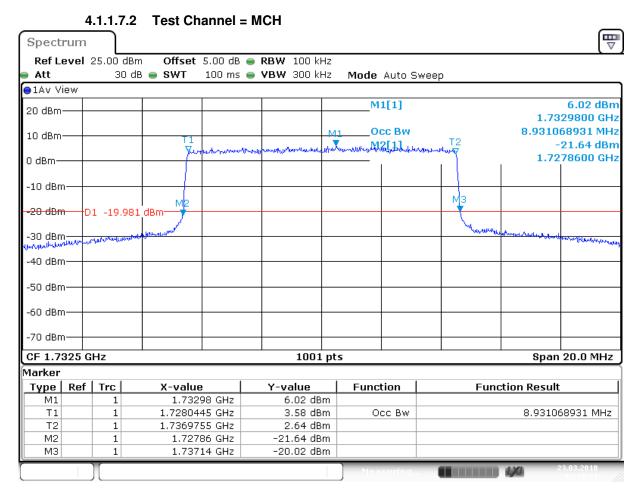


Date: 23 M AR .2018 02:19:42



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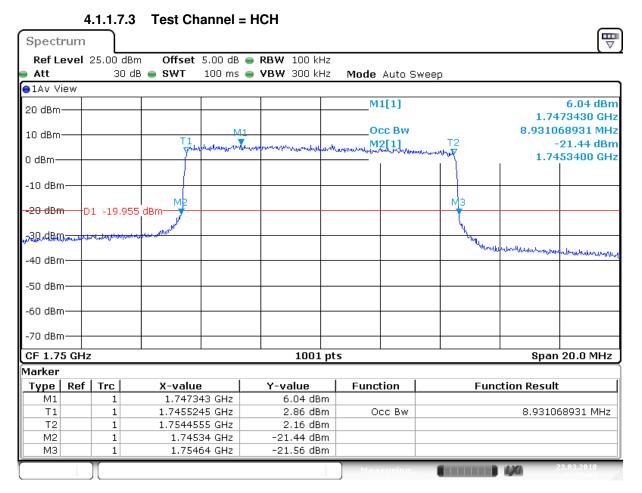


Date: 23 M AR .2018 02:19:52



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Date: 23 M AR 2018 02:20:01

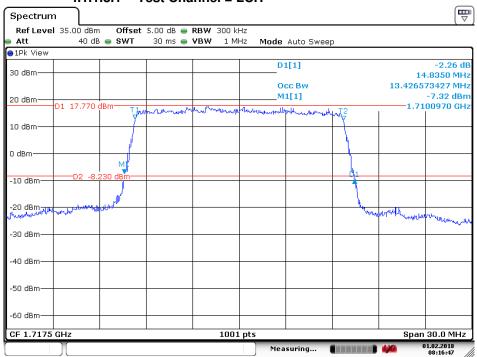


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4.1.1.8 Test Mode = LTE/TM1 15MHz

4.1.1.8.1 Test Channel = LCH



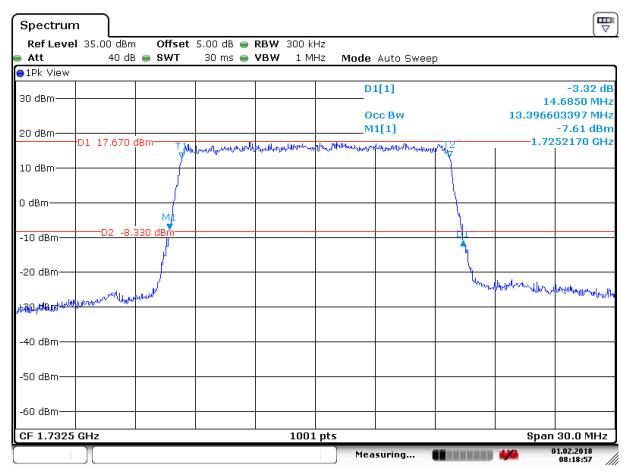
Date: 1.FEB.2018 08:16:47



Report No.: SZEM180400306503

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4.1.1.8.2 Test Channel = MCH



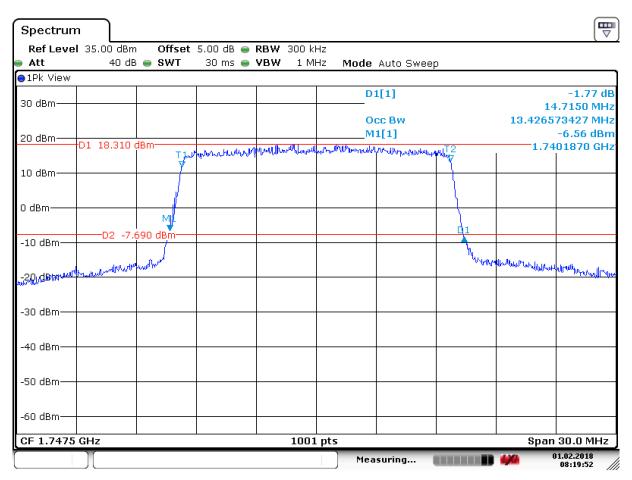
Date: 1.FEB.2018 08:18:57



Report No.: SZEM180400306503

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4.1.1.8.3 Test Channel = HCH



Date: 1.FEB.2018 08:19:52

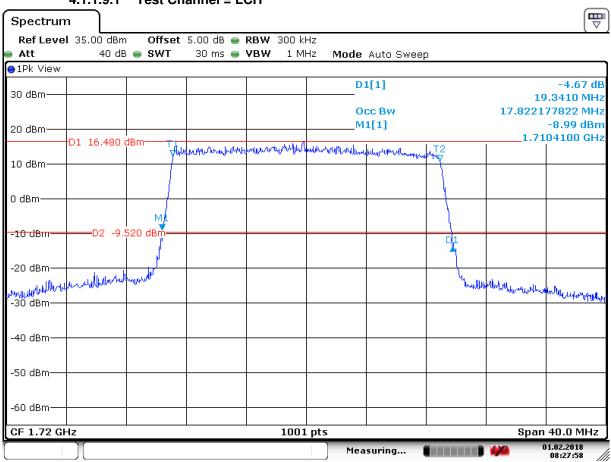


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4.1.1.9 Test Mode = LTE/TM1 20MHz

4.1.1.9.1 Test Channel = LCH

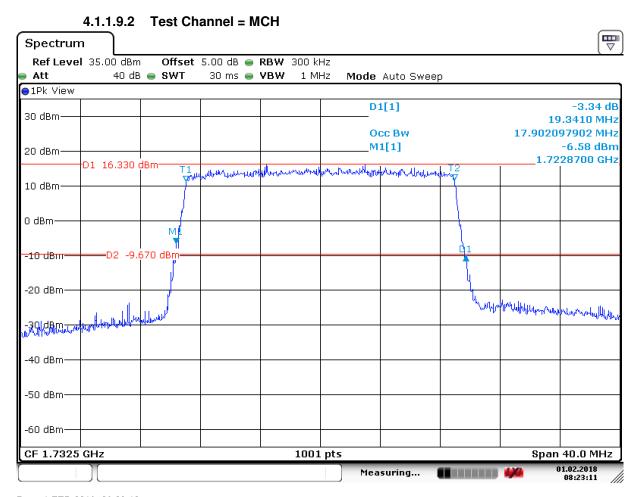


Date: 1.FEB.2018 08:27:58



Report No.: SZEM180400306503

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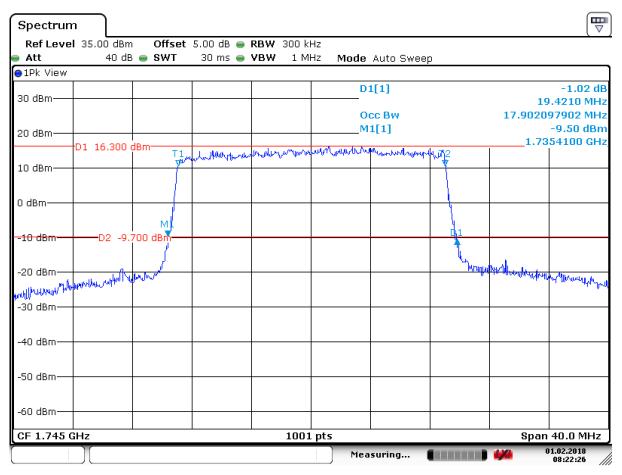
Date: 1.FEB.2018 08:23:12



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4.1.1.9.3 Test Channel = HCH



Date: 1.FEB.2018 08:22:26



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5 Band Edges Compliance

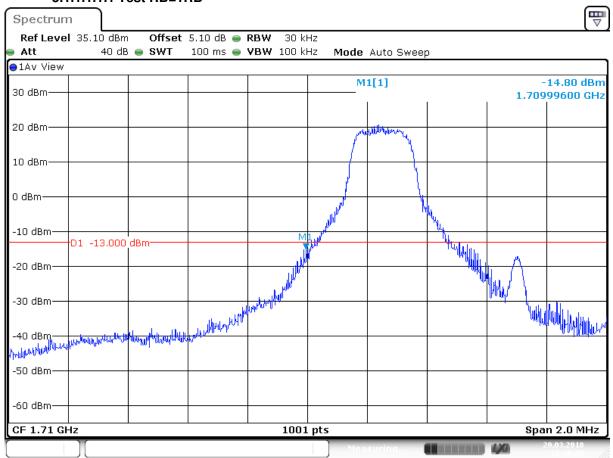
5.1 For LTE

5.1.1 Test Band = LTE BAND 4

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH

5.1.1.1.1 Test RB=1RB

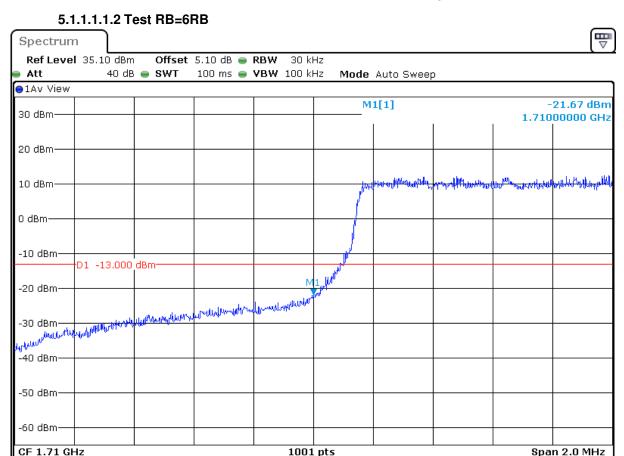


Date: 20 M AR 2018 12:46:30



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Date: 20 M AR .2018 12:47:08

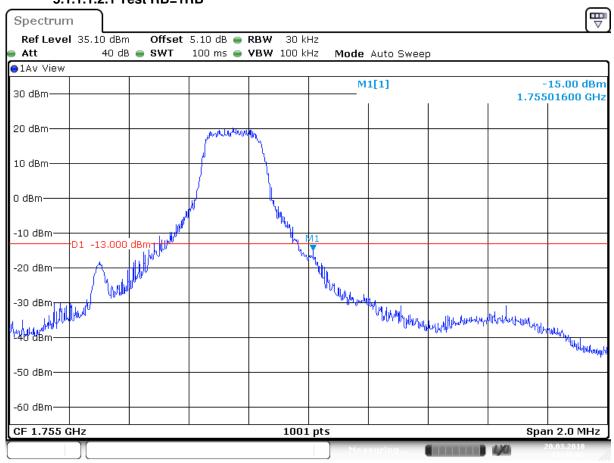


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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB

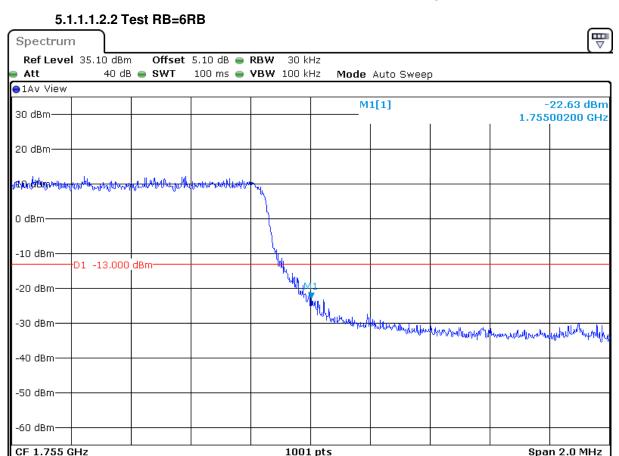


Date: 20 M AR .2018 12:48:09



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Date: 20 M AR .2018 12:48:28

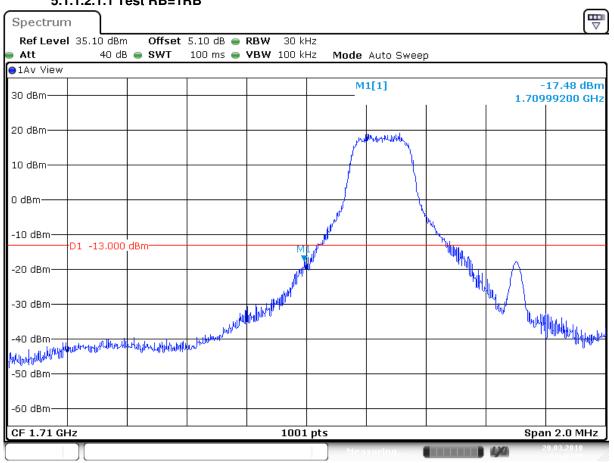


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5.1.1.2 Test Mode = LTE/TM2 1.4MHz 5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB



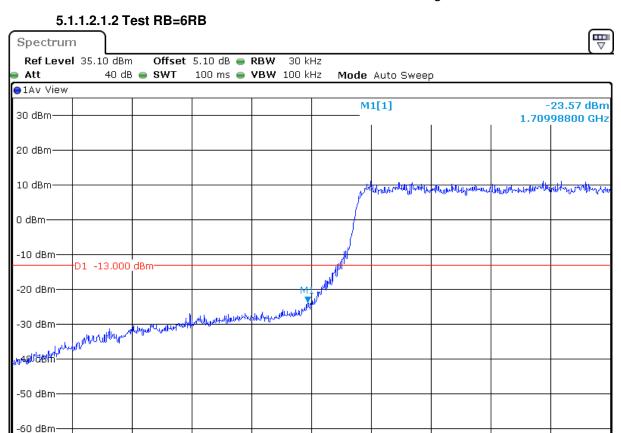
Date: 20 M AR .2018 12:46:39



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Span 2.0 MHz

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1001 pts

Date: 20 M AR .2018 12:47:17

CF 1.71 GHz

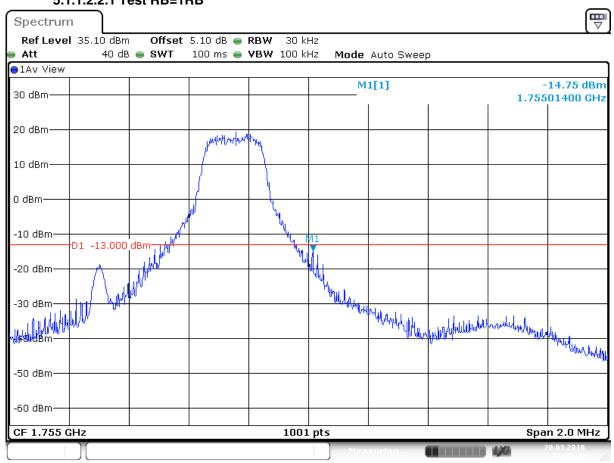


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5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB

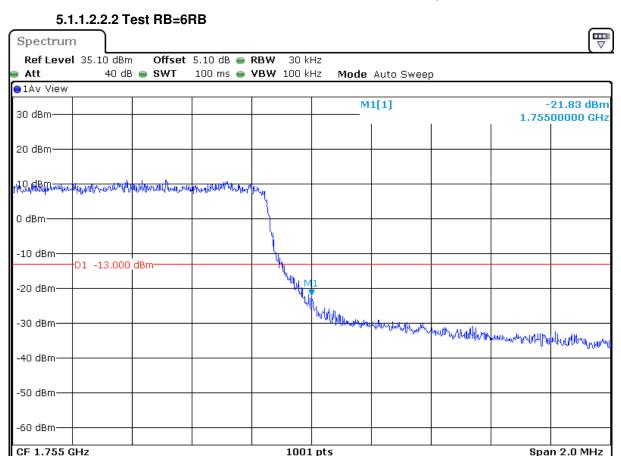


Date: 20 M AR .2018 12:48:19



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Date: 20 M AR .2018 12:48:38

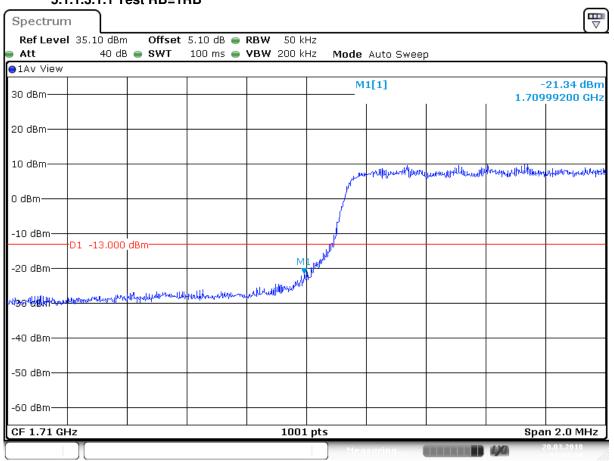


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5.1.1.3 Test Mode = LTE/TM1 3MHz 5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB

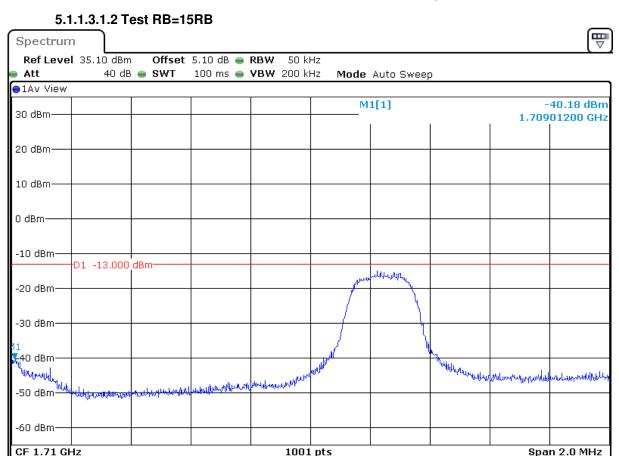


Date: 20 M AR .2018 13:07:20



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Date: 20 MAR 2018 13:07:01

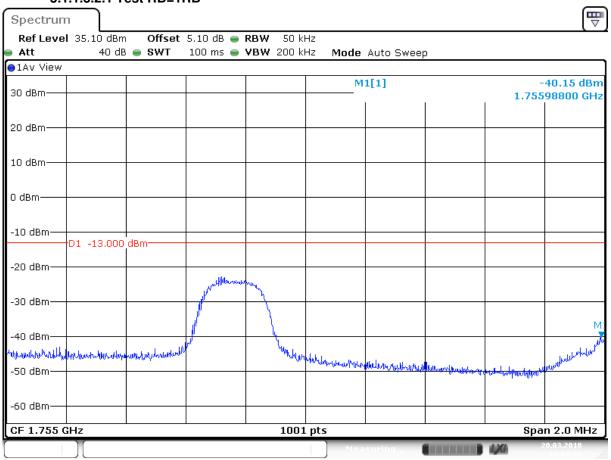


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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB

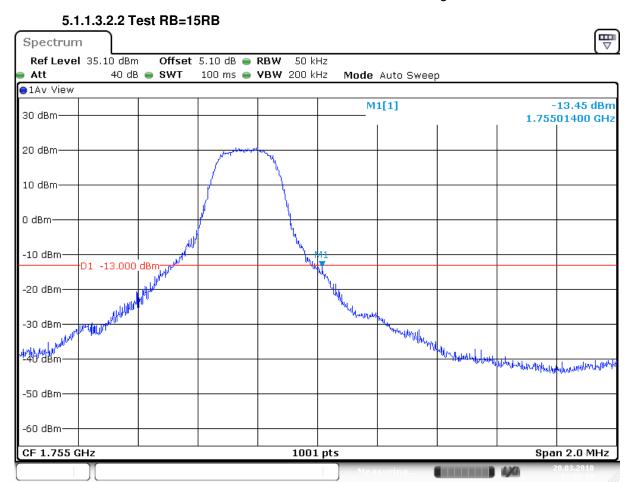


Date: 20 M AR .2018 13:07:53



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Date: 20 M AR 2018 13:08:11

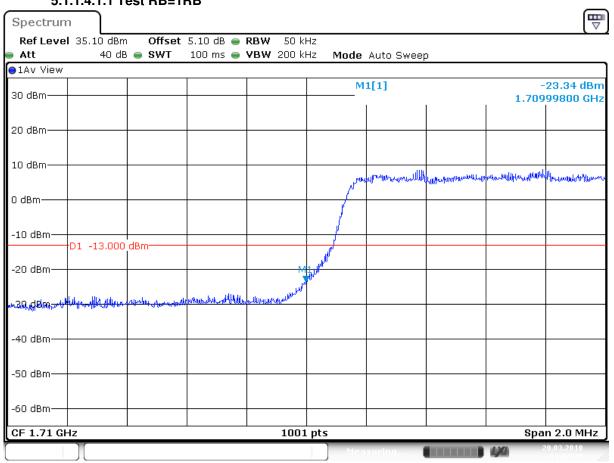


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5.1.1.4 Test Mode = LTE/TM2 3MHz 5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB

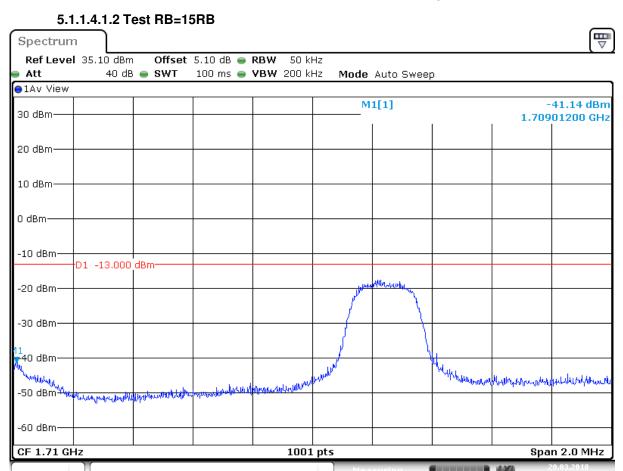


Date: 20 M AR .2018 13:07:29



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Date: 20 M AR .2018 13:07:10

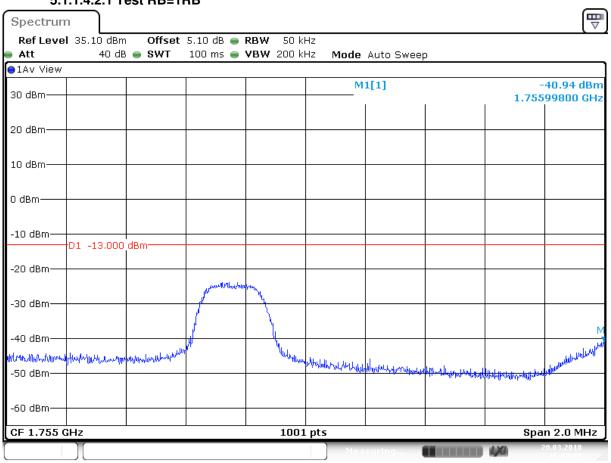


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5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



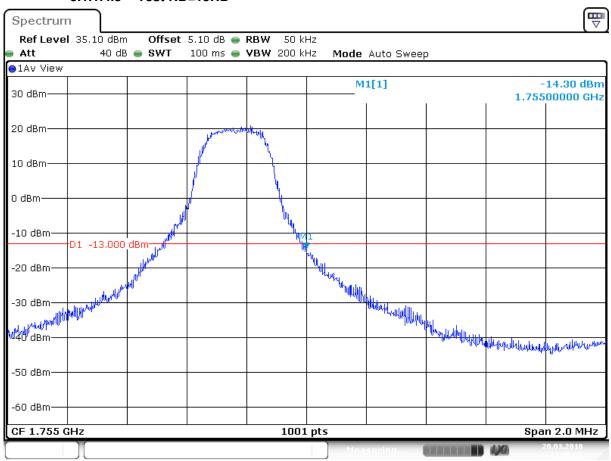
Date: 20 M AR .2018 13:08:02



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Date: 20 M AR .2018 13:08:20

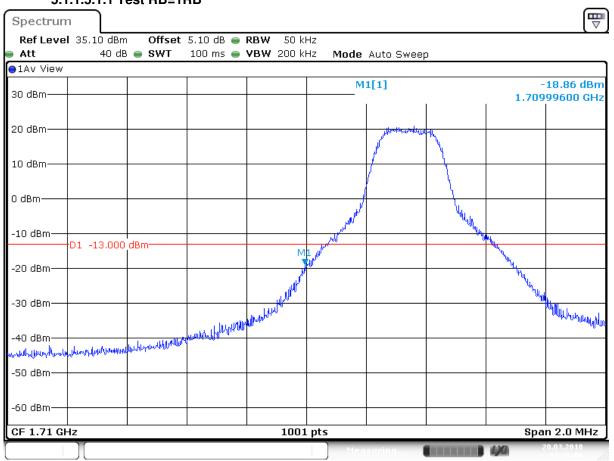


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5.1.1.5 Test Mode = LTE/TM1 5MHz 5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB

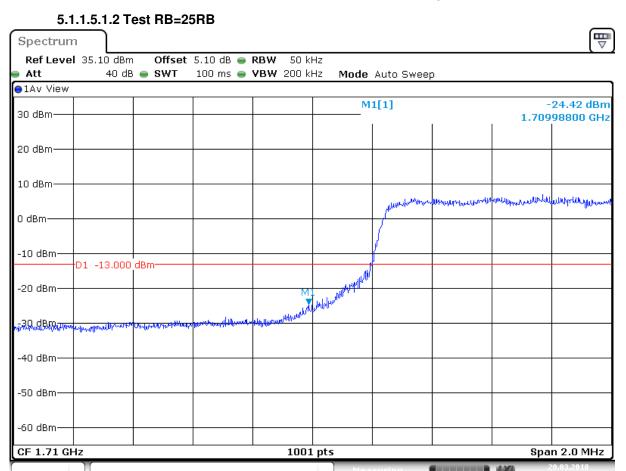


Date: 20 M AR .2018 13:26:06



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Date: 20 M AR .2018 13:26:44

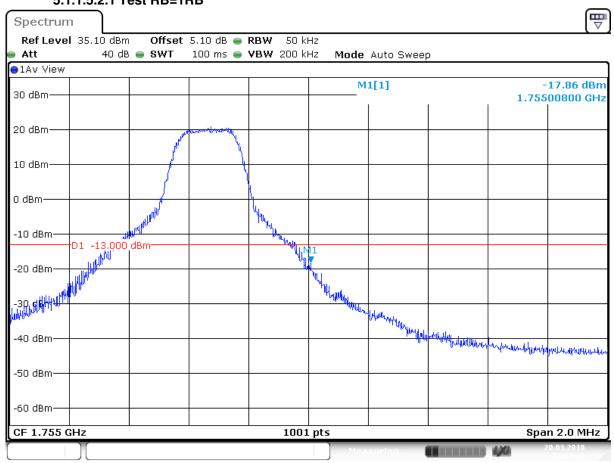


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5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB

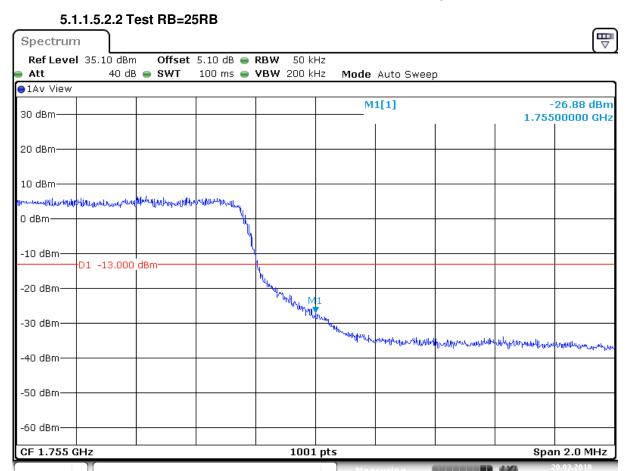


Date: 20 M AR 2018 13:27:36



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Date: 20 M AR .2018 13:27:55

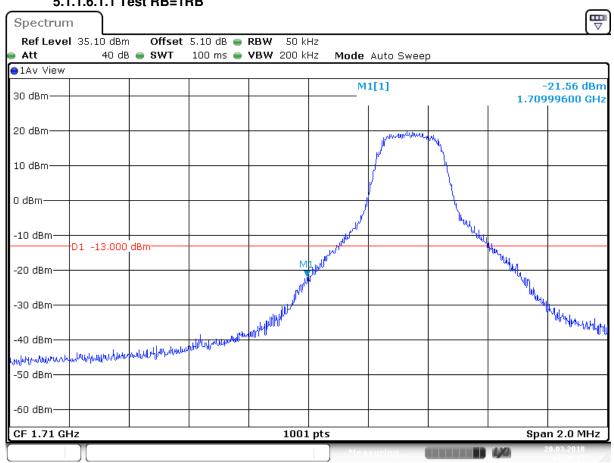


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5.1.1.6 Test Mode = LTE/TM2 5MHz 5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



Date: 20 M AR .2018 13:26:16



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Date: 20 M AR .2018 13:26:53

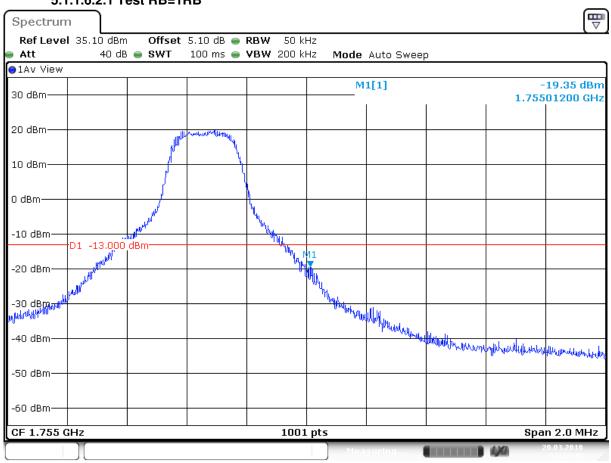


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5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB

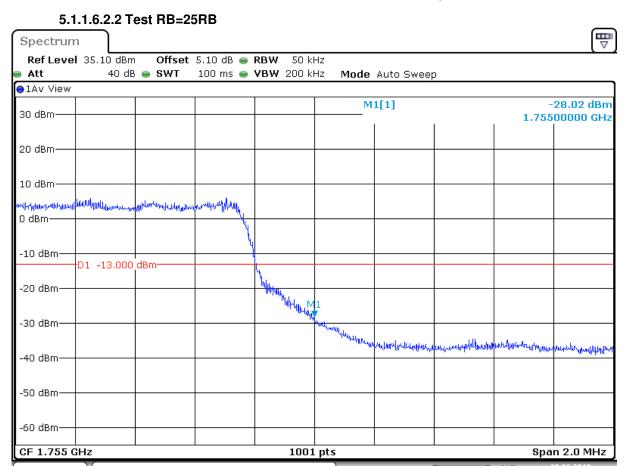


Date: 20 M AR .2018 13:27:45



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Date: 20 M AR .2018 13:28:04

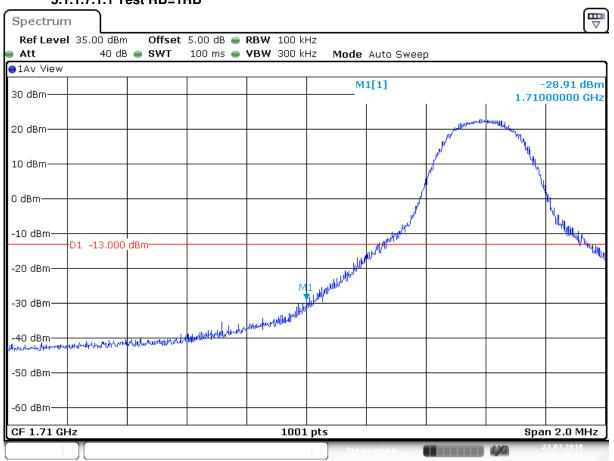


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5.1.1.7 Test Mode = LTE/TM1 10MHz 5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB

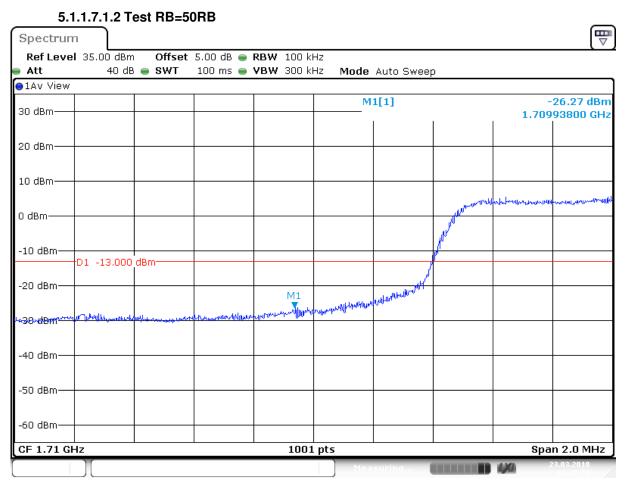


Date: 23 M AR .2018 02:20:17



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Date: 23 M AR .2018 02:20:36

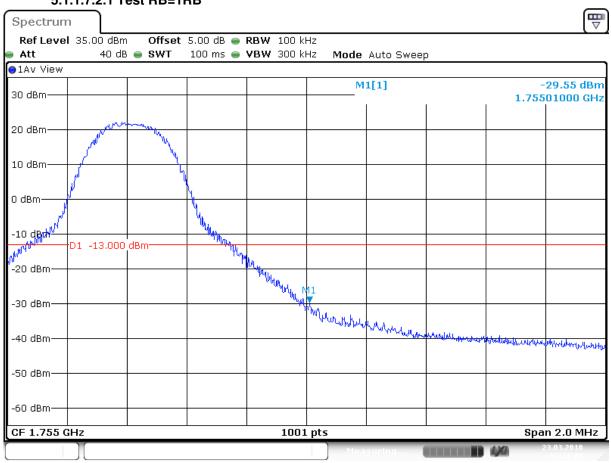


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5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB

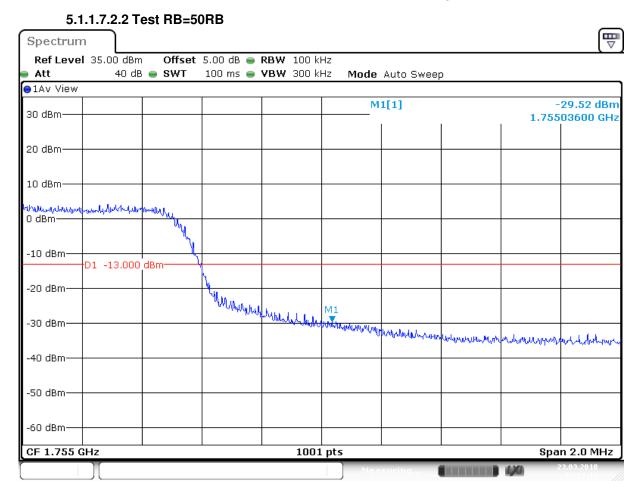


Date: 23 M AR .2018 02:21:09



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Date: 23 M AR .2018 02:21:19

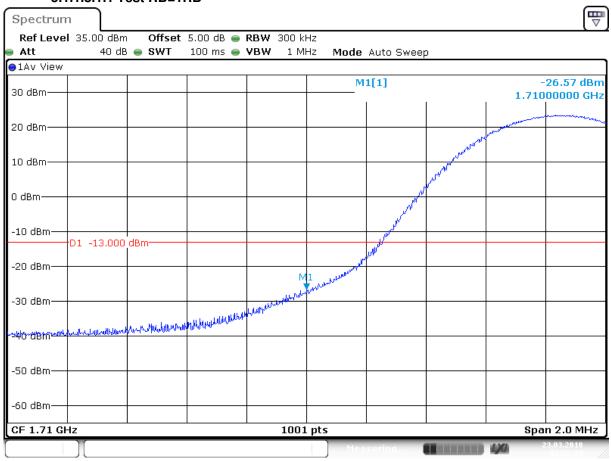


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5.1.1.8 Test Mode = LTE/TM1 15MHz 5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB

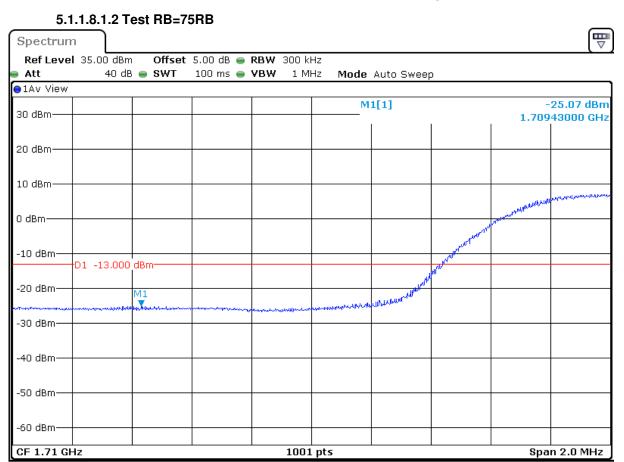


Date: 23 M AR .2018 02:28:30



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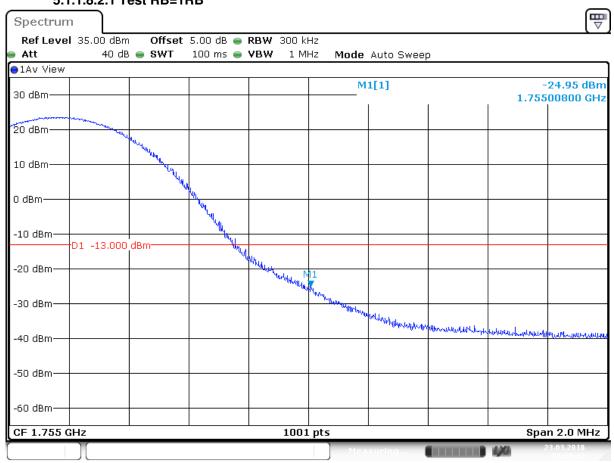


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5.1.1.8.2 Test Channel = HCH

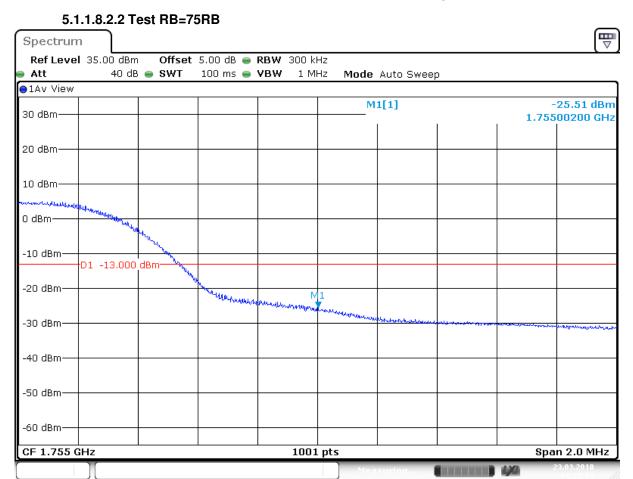
5.1.1.8.2.1 Test RB=1RB





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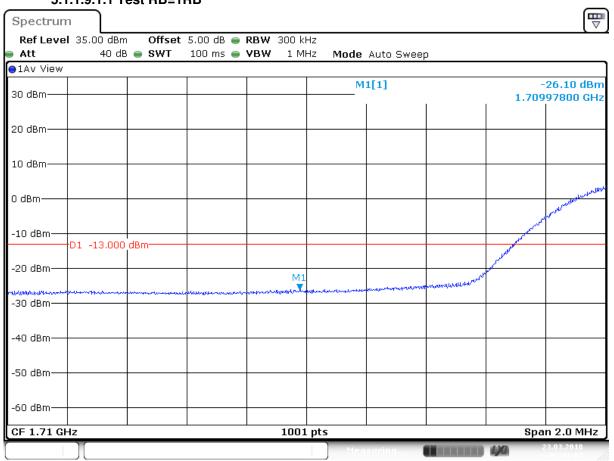


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5.1.1.9 Test Mode = LTE/TM1 20MHz 5.1.1.9.1 Test Channel = LCH

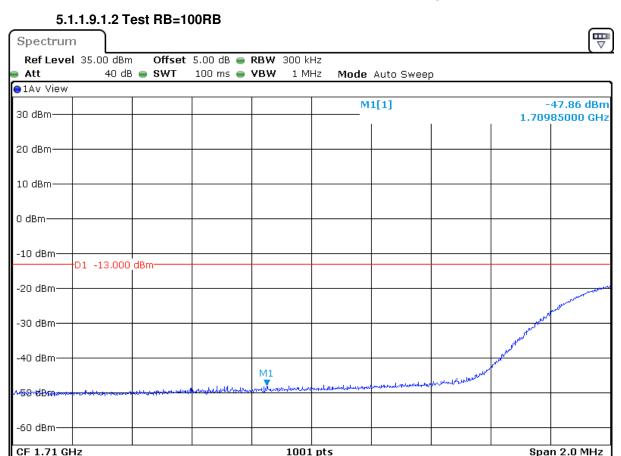
5.1.1.9.1.1 Test RB=1RB





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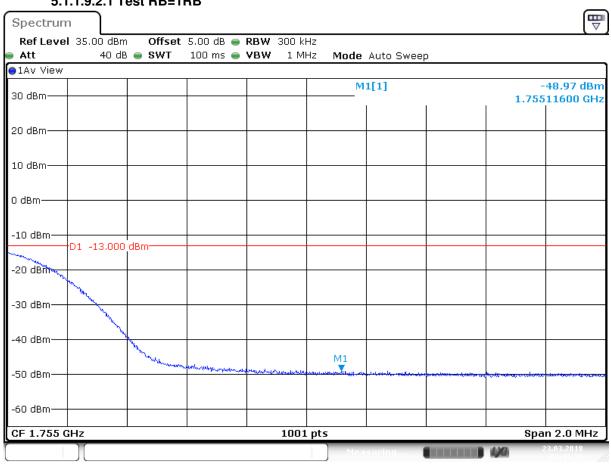


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5.1.1.9.2 Test Channel = HCH

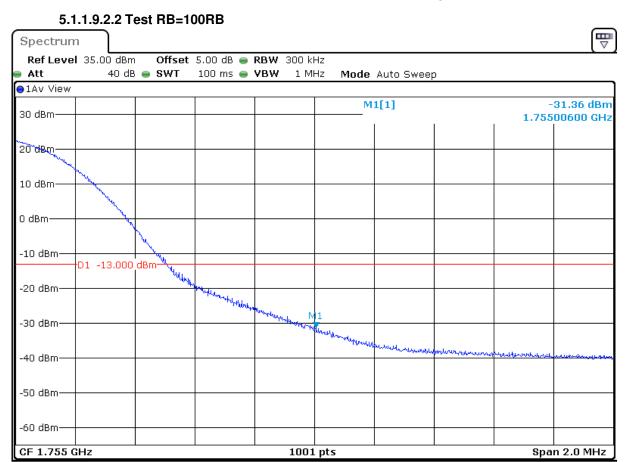
5.1.1.9.2.1 Test RB=1RB





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6 Spurious Emission at Antenna Terminal

NOTE: 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 = k * (Span / RBW) with k = k * (Span / RBW)

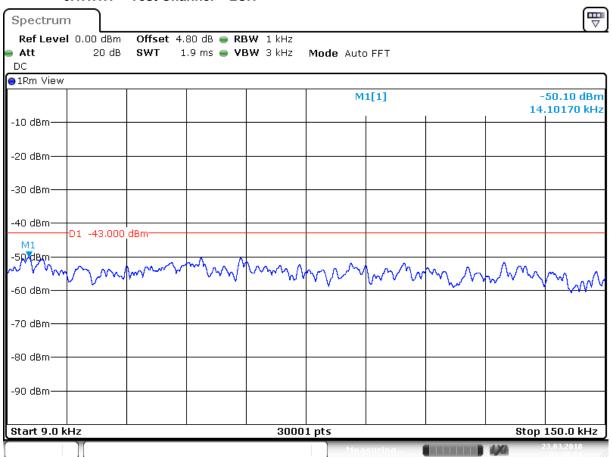
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE BAND 4

6.1.1.1 Test Mode = LTE / TM1 20MHz RB1#0

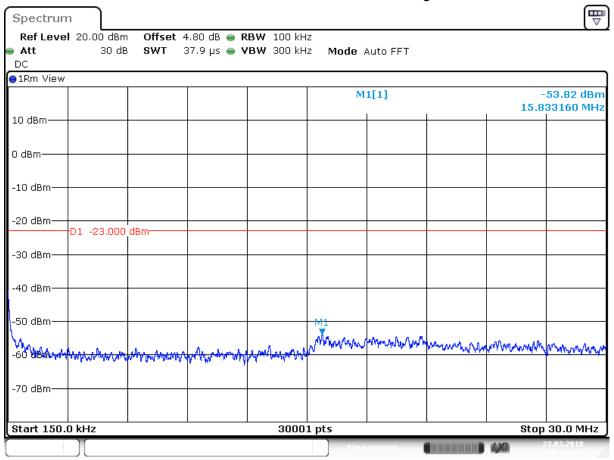
6.1.1.1.1 Test Channel = LCH





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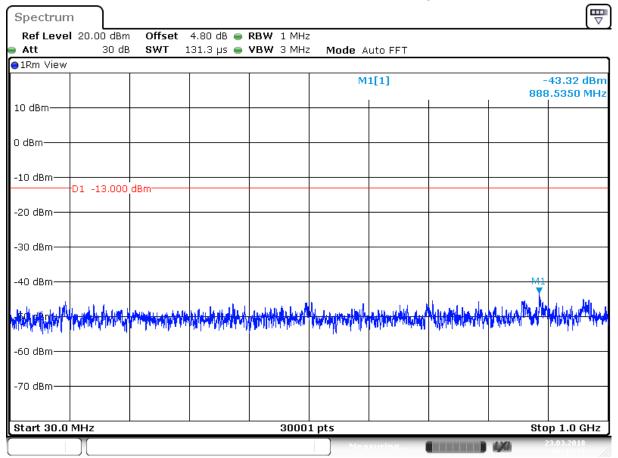
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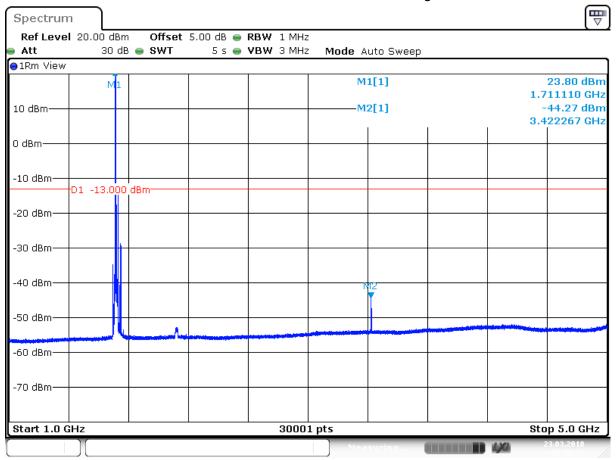
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Report No.: SZEM180400306503

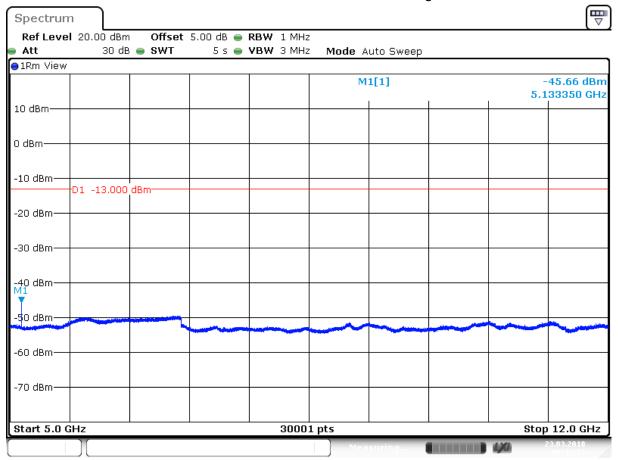
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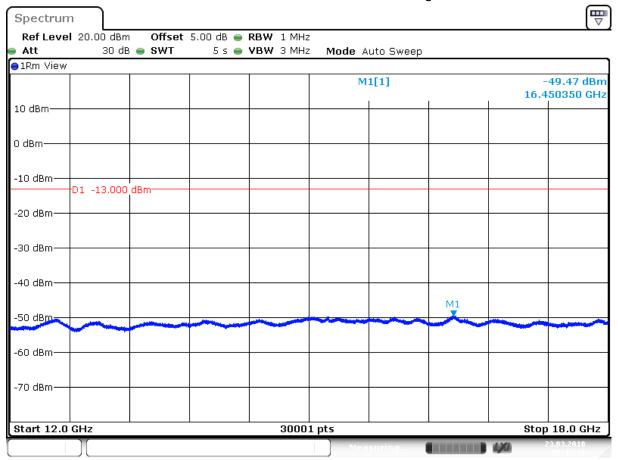
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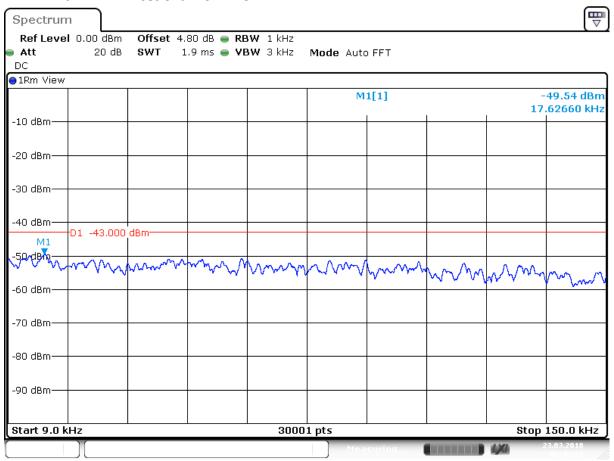




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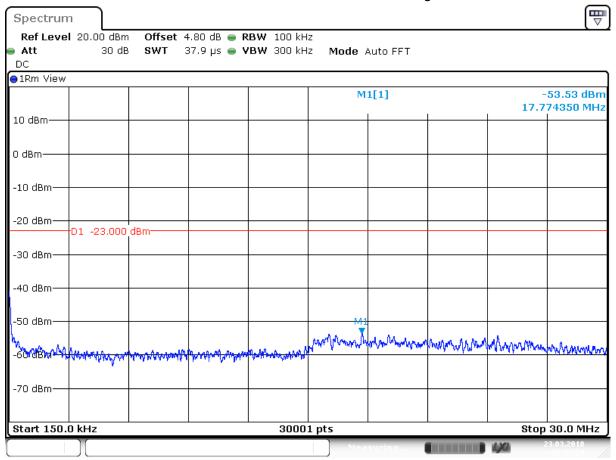
6.1.1.1.2 Test Channel = MCH





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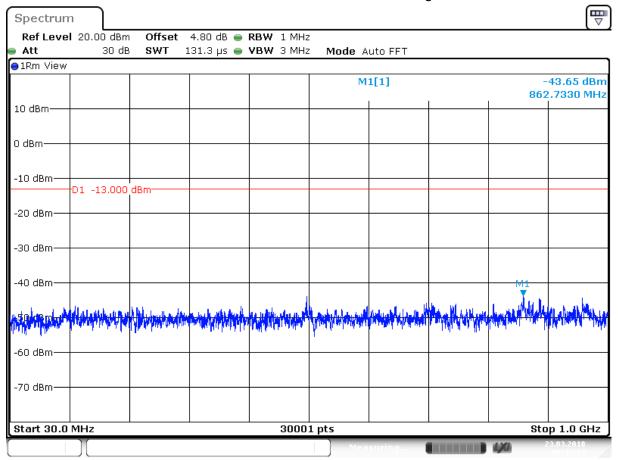
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Report No.: SZEM180400306503

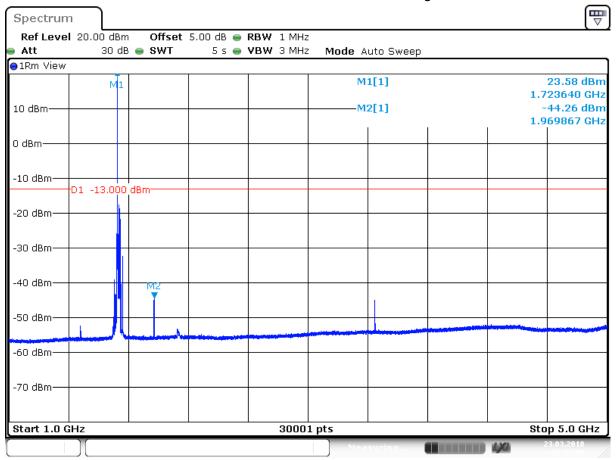
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Report No.: SZEM180400306503

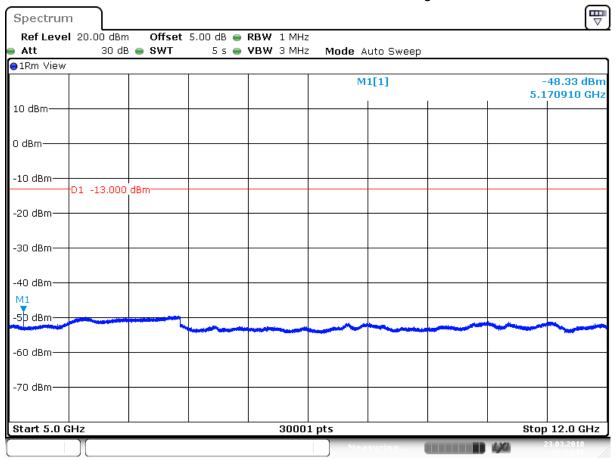
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Report No.: SZEM180400306503

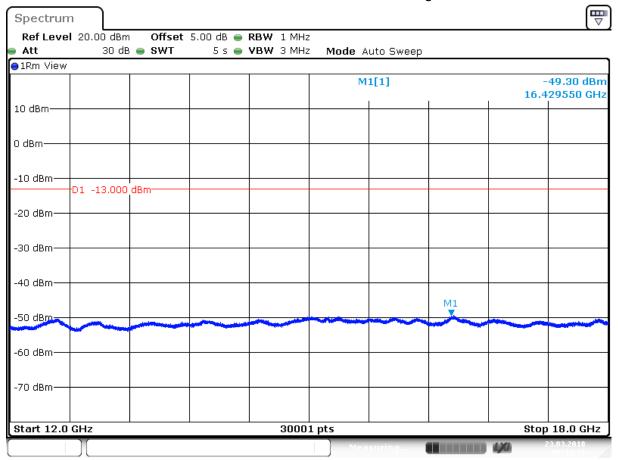
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Report No.: SZEM180400306503

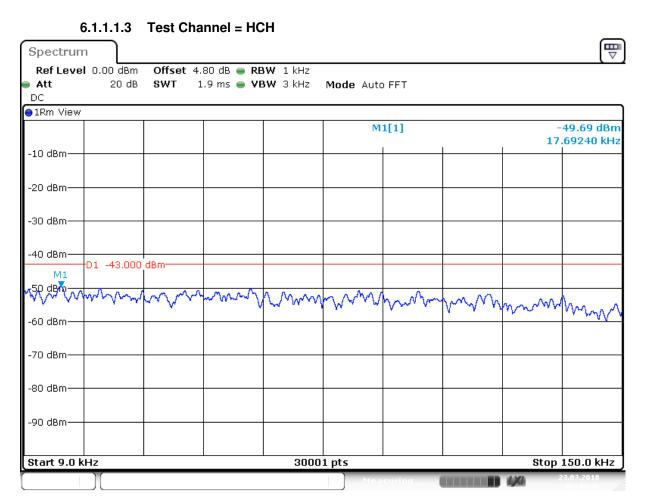
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Report No.: SZEM180400306503

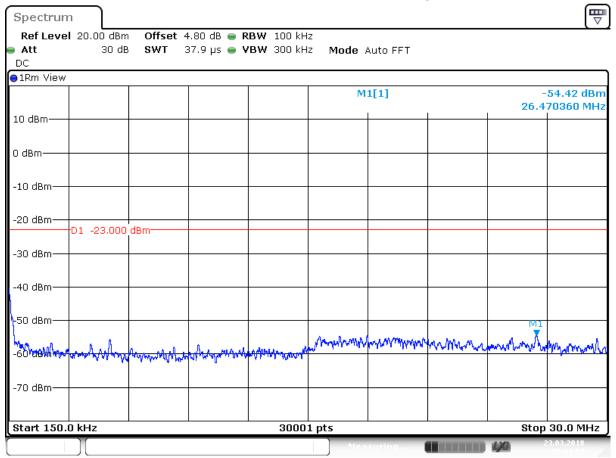
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Report No.: SZEM180400306503

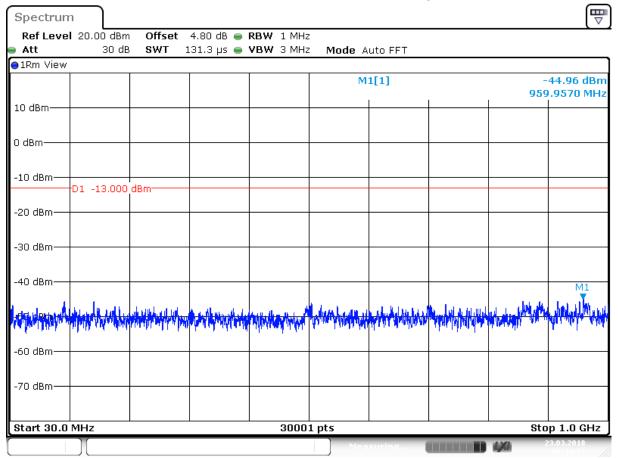
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Report No.: SZEM180400306503

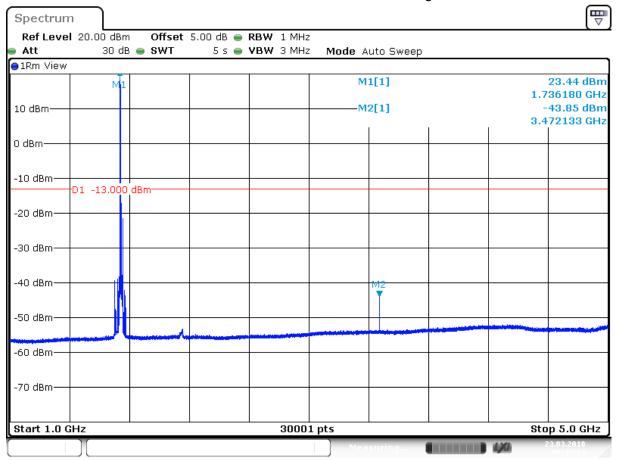
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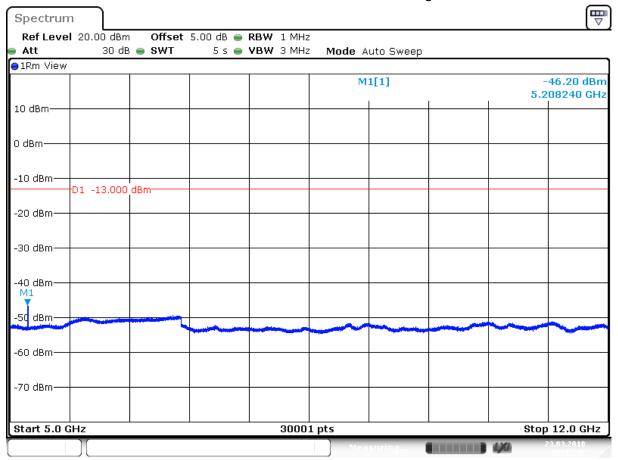
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Report No.: SZEM180400306503

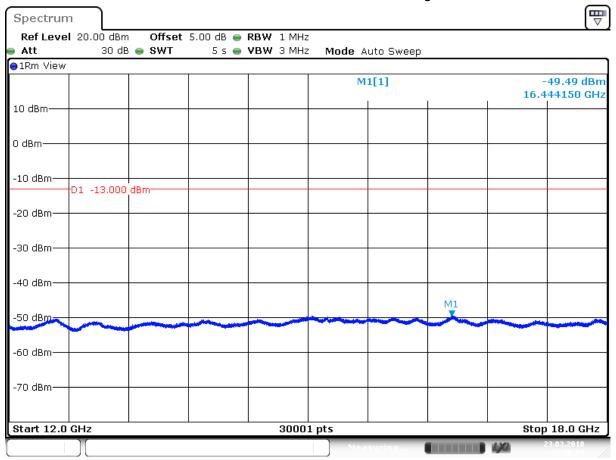
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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE BAND 4

7.1.1.1 Test Mode =LTE/TM1 20MHz RB1#0

7.1.1.1.1 Test Channel = LCH

7.1.1.1.1 Test Channel = LCH						
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization		
89.600000	-75.67	-13.00	62.67	Vertical		
345.600000	-73.50	-13.00	60.50	Vertical		
2112.000000	-53.95	-13.00	40.95	Vertical		
3421.850000	-52.66	-13.00	39.66	Vertical		
5133.300000	-46.22	-13.00	33.22	Vertical		
6844.100000	-60.14	-13.00	47.14	Vertical		
90.100000	-74.77	-13.00	61.77	Horizontal		
310.900000	-70.42	-13.00	57.42	Horizontal		
2127.500000	-52.15	-13.00	39.15	Horizontal		
3421.850000	-49.57	-13.00	36.57	Horizontal		
5133.300000	-52.97	-13.00	39.97	Horizontal		
6844.100000	-62.39	-13.00	49.39	Horizontal		

7.1.1.1.2 Test Channel = MCH

7.1.1.1.2	7.1.1.1.2 Test Chamier = MOH						
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization			
89.550000	-74.77	-13.00	61.77	Vertical			
345.600000	-73.02	-13.00	60.02	Vertical			
2141.000000	-52.36	-13.00	39.36	Vertical			
3446.875000	-53.64	-13.00	40.64	Vertical			
5170.675000	-47.92	-13.00	34.92	Vertical			
6894.150000	-60.18	-13.00	47.18	Vertical			
89.100000	-73.94	-13.00	60.94	Horizontal			
310.800000	-69.67	-13.00	56.67	Horizontal			
2133.000000	-52.09	-13.00	39.09	Horizontal			
3446.875000	-51.39	-13.00	38.39	Horizontal			
5170.675000	-52.66	-13.00	39.66	Horizontal			
7970.875000	-64.10	-13.00	51.10	Horizontal			



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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
89.100000	-75.09	-13.00	62.09	Vertical
345.600000	-73.68	-13.00	60.68	Vertical
2137.500000	-55.12	-13.00	42.12	Vertical
3472.225000	-48.38	-13.00	35.38	Vertical
5208.050000	-54.47	-13.00	41.47	Vertical
6944.200000	-61.16	-13.00	48.16	Vertical
91.150000	-73.06	-13.00	60.06	Horizontal
301.300000	-70.45	-13.00	57.45	Horizontal
2142.500000	-52.14	-13.00	39.14	Horizontal
3471.900000	-48.38	-13.00	35.38	Horizontal
5208.050000	-53.58	-13.00	40.58	Horizontal
6944.200000	-61.59	-13.00	48.59	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 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
LTEBAND 4	LTE/TM1 20MHz	LCH	TN	VL	-4.03	-0.00217	PASS
				VN	0.46	0.00025	PASS
				VH	-7.73	-0.00416	PASS
		МСН	TN	VL	1.49	0.00079	PASS
				VN	-2.84	-0.00151	PASS
				VH	2.63	0.00140	PASS
		НСН	TN	VL	-6.56	-0.00345	PASS
				VN	-5.17	-0.00272	PASS
				VH	-0.79	-0.00042	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
			VN	-30	-0.40	-0.00022	PASS
				-20	-1.34	-0.00072	PASS
				-10	2.38	0.00128	PASS
				0	1.75	0.00094	PASS
		LCH		10	1.65	0.00089	PASS
				20	0.11	0.00006	PASS
				30	-0.31	-0.00017	PASS
				40	-0.14	-0.00008	PASS
				50	0.59	0.00032	PASS
				-30	-7.80	-0.00415	PASS
	LTE/TM1 20MHz			-20	-5.95	-0.00316	PASS
		МСН	VN	-10	-7.49	-0.00398	PASS
				0	-5.62	-0.00299	PASS
LTEBAND 4				10	-4.04	-0.00215	PASS
7				20	-9.94	-0.00529	PASS
				30	-5.66	-0.00301	PASS
				40	-4.62	-0.00246	PASS
				50	-6.92	-0.00368	PASS
		НСН	VN	-30	0.54	0.00028	PASS
				-20	-1.49	-0.00078	PASS
				-10	1.53	0.00081	PASS
				0	-2.83	-0.00149	PASS
				10	2.60	0.00137	PASS
				20	-0.57	-0.00030	PASS
				30	-2.66	-0.00140	PASS
				40	-5.43	-0.00286	PASS
				50	-8.90	-0.00468	PASS

The End