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Appendix B

LTE-NB1 BAND 13



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE-NB1 BAND13

Test Band	Test Mode	Sub-carrier Spacing (kHz)	Test channel	Number of T	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
			1.011	1T0	22.73	19.78	34.77	PASS
			LCH	1T47	22.64	19.69	34.77	PASS
	TM1 3.75	2.75	MOLL	1T0	22.61	19.66	34.77	PASS
		3.75	3.75	MCH	1T47	22.67	19.72	34.77
			НСН	1T0	22.67	19.72	34.77	PASS
DAND12	NANID40		11011	1T47	22.54	19.59	34.77	PASS
BAND13			LCH	1T0	22.67	19.72	34.77	PASS
			LCH	1T47	22.7	19.75	34.77	PASS
	TN40 0.75 NAOU	MCH	1T0	22.75	19.8	34.77	PASS	
	TM2	2 3.75 MCI	IVICH	1T47	22.64	19.69	34.77	PASS
			ПСП	1T0	22.68	19.73	34.77	PASS
			HCH	1T47	22.63	19.68	34.77	PASS

Test Band	Test Mode	Sub-carrier Spacin (kHz)	Test channel	Number of T	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict				
			LCH	1T0	23.02	20.07	34.77	PASS				
			LON	1T11	23.15	20.2	34.77	PASS				
	TM1	15	MCH	1T0	22.83	19.88	34.77	PASS				
	1 101 1	15	IVICIT	1T11	22.78	19.83	34.77	PASS				
							HCH	1T0	22.81	19.86	34.77	PASS
			HIGH	1T11	22.71	19.76	34.77	PASS				
			LCH	1T0	23.07	20.12	34.77	PASS				
BAND13				1T11	23.03	20.08	34.77	PASS				
				12T0	21.15	18.2	34.77	PASS				
				1T0	22.87	19.92	34.77	PASS				
	TM2	15	MCH	1T11	22.95	20	34.77	PASS				
				12T0	20.88	17.93	34.77	PASS				
			нсн	1T0	22.75	19.8	34.77	PASS				
				1T11	22.73	19.78	34.77	PASS				
				12T0	22.84	19.89	34.77	PASS				

Note:

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

b: SGP=Signal Generator Level

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



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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	4.46	13	PASS
	TM1/1T	MCH	4.52	13	PASS
		HCH	4.61	13	PASS
	TM2/1T TM2/Full T	LCH	3.97	13	PASS
BAND13		MCH	4.14	13	PASS
		HCH	4.03	13	PASS
		LCH	4.29	13	PASS
		MCH	4.04	13	PASS
		HCH	4.03	13	PASS

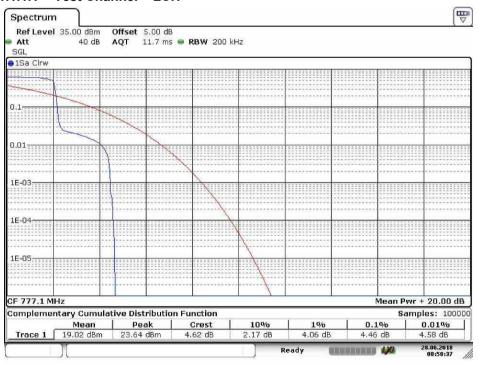
Part II - Test Plots

2.1 For LTE-NB1

2.1.1 Test Band = LTE-NB1 band13

2.1.1.1 Test Mode = LTE-NB1/TM1.Sub-carrier spacing=15kHz.T size=1T0

2.1.1.1.1 Test Channel = LCH



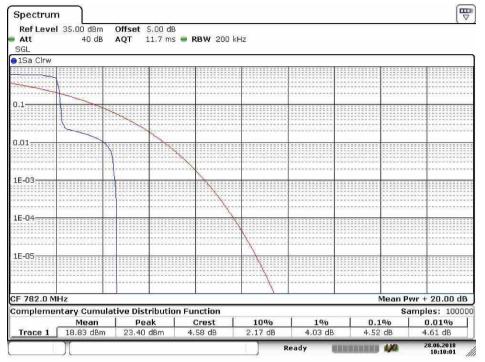
Date: 28.JUN.2018 08:58:38



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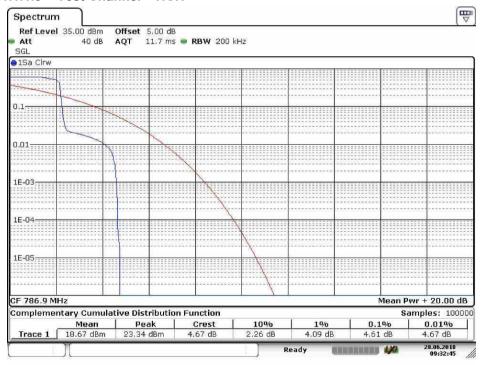
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2.1.1.1.2 Test Channel = MCH



Date: 28.JUN.2018 10:10:01

2.1.1.1.3 Test Channel = HCH



Date: 28.JUN.2018 09:32:45

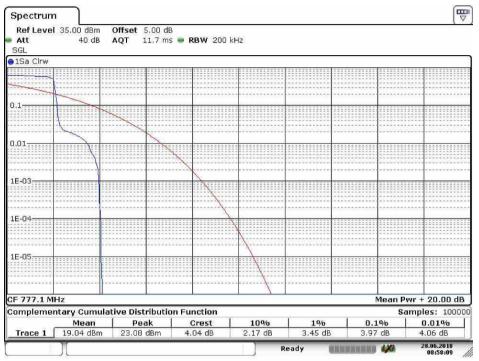


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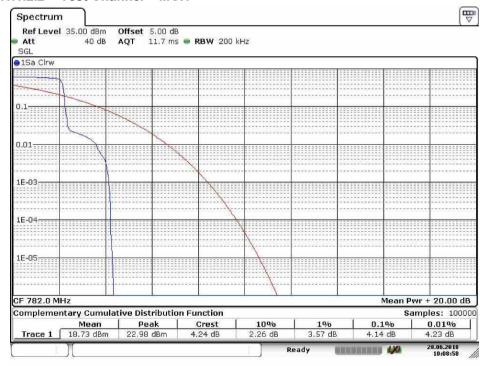
2.1.1.2 Test Mode = LTE-NB1/TM2.Sub-carrier spacing=15kHz.T size=1T0

2.1.1.2.1 Test Channel = LCH



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2.1.1.2.2 Test Channel = MCH



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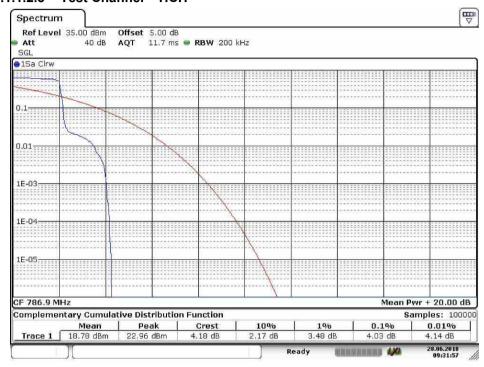
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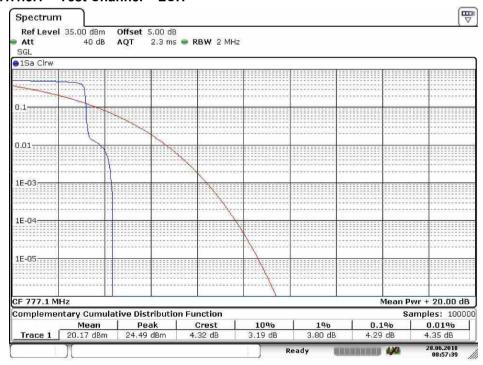
2.1.1.2.3 Test Channel = HCH



Date: 28.JUN.2018 09:31:57

2.1.1.3 Test Mode = LTE-NB1/TM2.Sub-carrier spacing=15kHz.T size=12T0

2.1.1.3.1 Test Channel = LCH



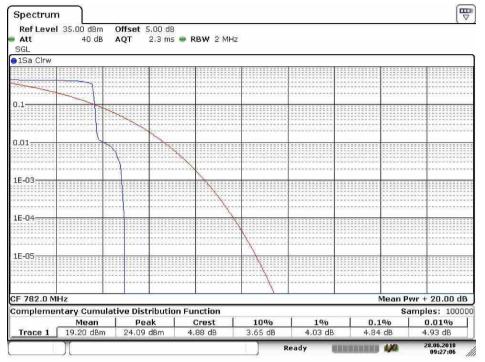
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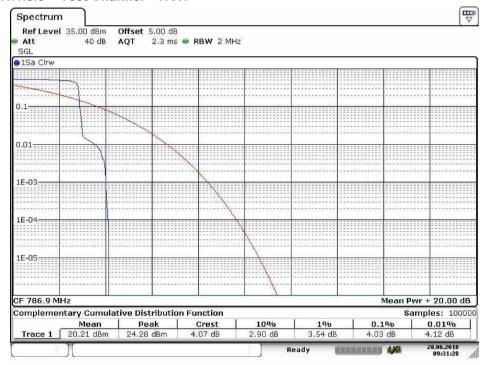
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2.1.1.3.2 Test Channel = MCH



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2.1.1.3.3 Test Channel = HCH



Date: 28.JUN.2018 09:31:28

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3 Modulation Characteristics

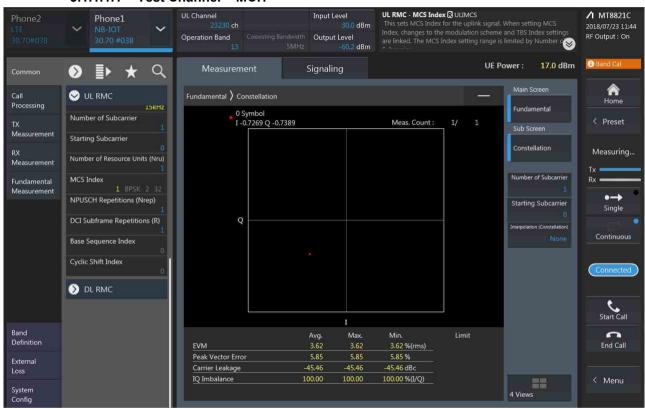
Part I - Test Plots

3.1 For LTE-NB1

3.1.1 Test Band = LTE-NB1 band13

3.1.1.1 Test Mode = LTE-NB1/TM1.Sub-carrier spacing=15kHz.T size=1T0

3.1.1.1.1 Test Channel = MCH

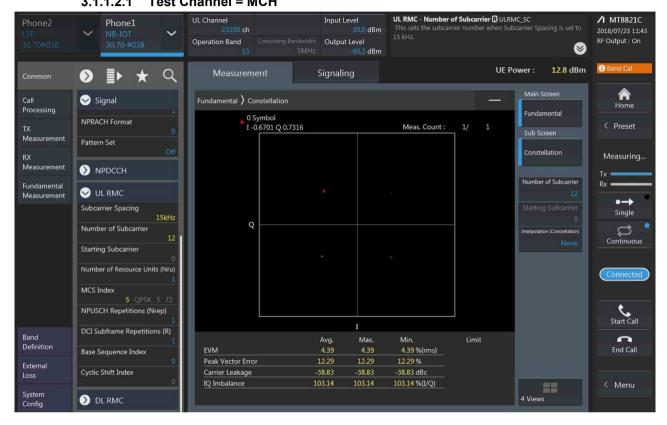




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3.1.1.2 Test Mode = LTE-NB1/TM2.Sub-carrier spacing=15kHz.T size=12T0 3.1.1.2.1 Test Channel = MCH





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4 Bandwidth

Part I - Test Results

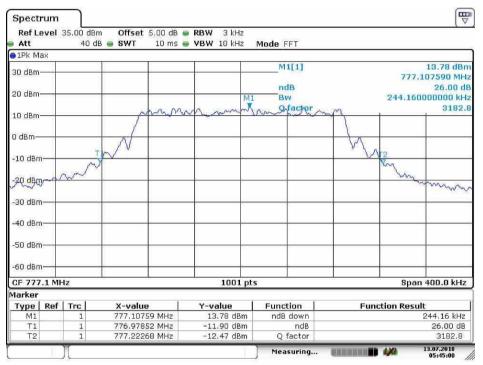
Test Band	Test Mode	Test Mode Test Occupied Bandwidth [kHz]		Emission Bandwidth [kHz]	Verdict
	3 TM2/15kHz	LCH	185.81	244.16	PASS
BAND13		MCH	184.61	243.36	PASS
		HCH	185.01	244.16	PASS

4.1 For LTE-NB1

4.1.1 Test Band = LTE-NB1 band13

4.1.1.1 Test Mode = LTE-NB1/TM2.Sub-carrier spacing=15kHz.T size=12T0

4.1.1.1.1 Test Channel = LCH

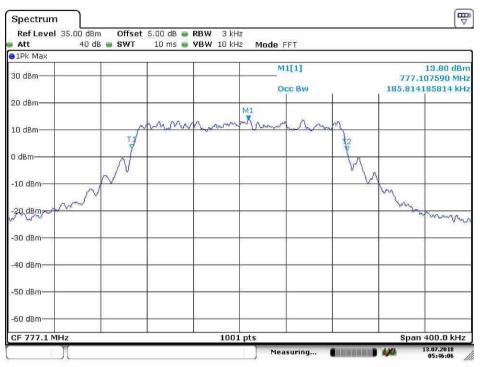


Date: 13.JUL.2018 05:45:00



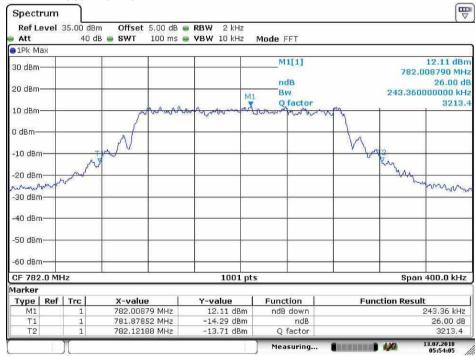
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Date: 13.JUL.2018 05:46:07

4.1.1.1.2 Test Channel = MCH

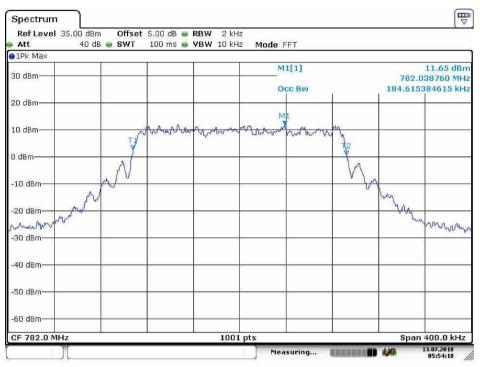


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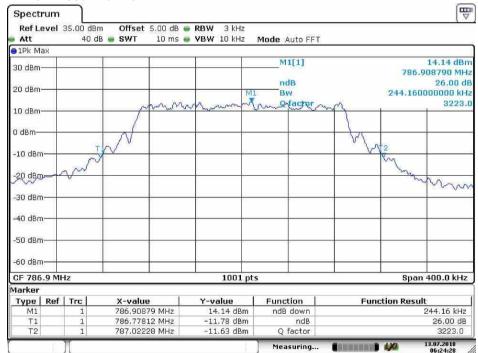
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Date: 13.JUL.2018 05:54:18

4.1.1.1.3 Test Channel = HCH



Date: 13.JUL.2018 06:24:28



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Date: 13.JUL.2018 06:24:38



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5 Band Edges Compliance

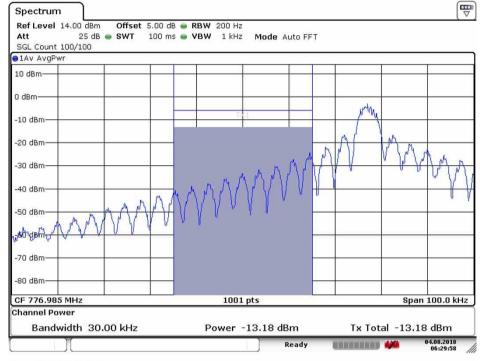
5.1 For LTE-NB1

5.1.1 Test Band = LTE-NB1 band13

5.1.1.1 Test Mode = LTE-NB1/TM1.Sub-carrier spacing=3.75kHz

5.1.1.1.1 Test Channel = LCH

5.1.1.1.1 Test T size=1T



Date: 4.AUG.2018 06:29:59

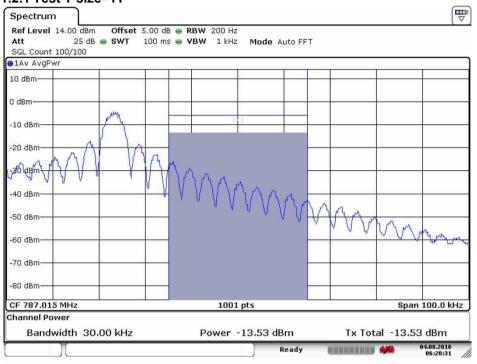


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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test T size=1T

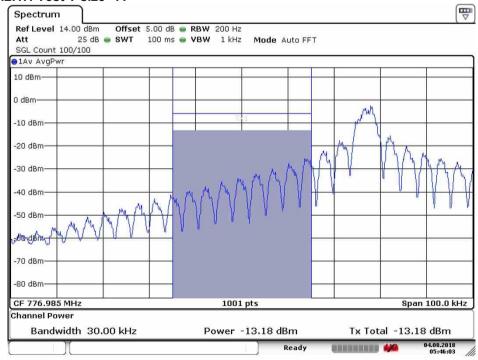


Date: 4.AUG.2018 06:20:31

5.1.1.2 Test Mode = LTE-NB1/TM2.Sub-carrier spacing=3.75kHz

5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test T size=1T



Date: 4.AUG.2018 05:46:03

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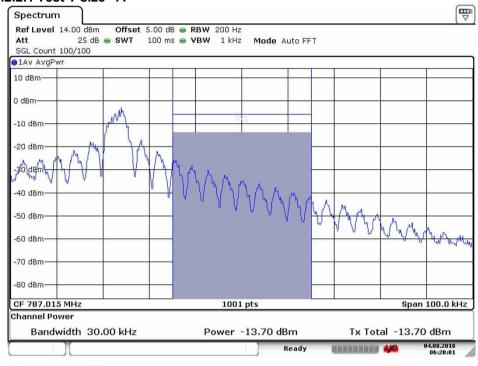


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5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test T size=1T

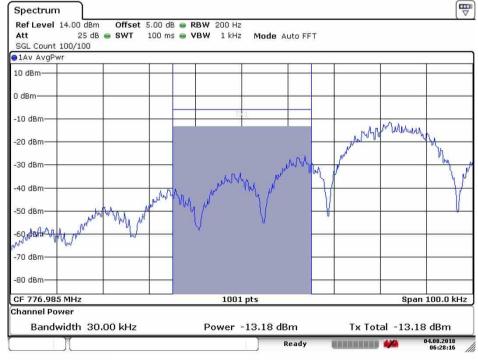


Date: 4.AUG.2018 06:20:01

5.1.1.3 Test Mode = LTE-NB1/TM1.Sub-carrier spacing=15kHz

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test T size=1T



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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test T size=1T



5.1.1.4 Test Mode = LTE-NB1/TM2.Sub-carrier spacing=15kHz

5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test T size=1T



Date: 4.AUG.2018 05:48:10

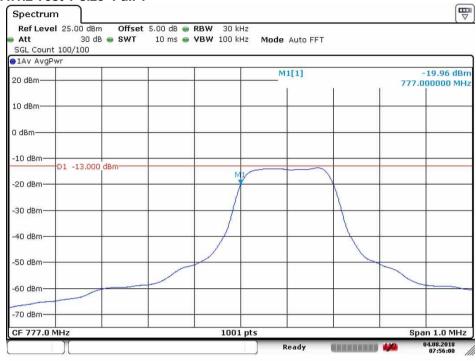
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5.1.1.4.1.2 Test T size=Full T



Date: 4.AUG.2018 07:56:00

5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test T size=1T



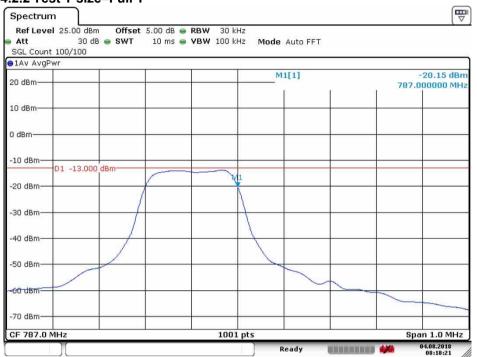
Date: 4.AUG.2018 06:17:10



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5.1.1.4.2.2 Test T size=Full T



Date: 4.AUG.2018 08:18:21



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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 = 4 * (Span / RBW) with k = 4 * (Span / RBW).

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

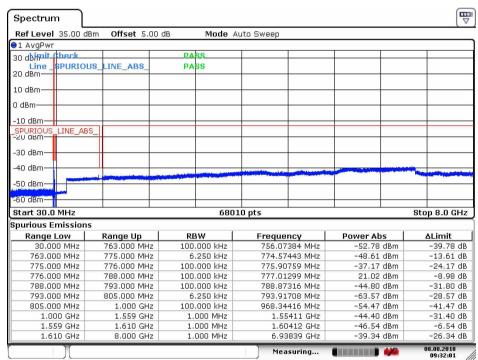
Part I - Test Plots

6.1 For LTE-NB1

6.1.1 Test Band = LTE-NB1 band13

6.1.1.1 Test Mode = LTE-NB1/TM1.Sub-carrier spacing=3.75kHz

6.1.1.1.1 Test Channel = LCH



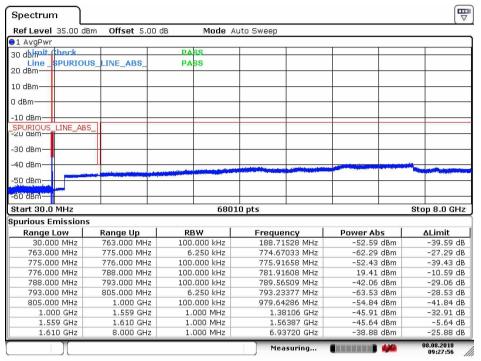
Date: 8.AUG.2018 09:32:01



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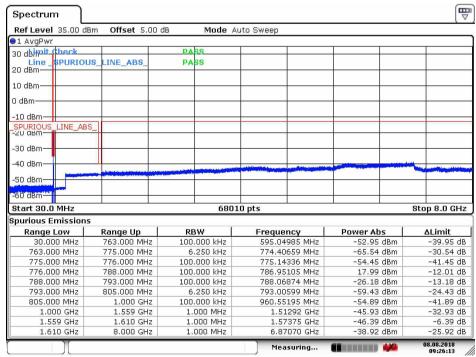
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6.1.1.1.2 Test Channel = MCH



Date: 8.AUG.2018 09:27:56

6.1.1.1.3 Test Channel = HCH



Date: 8.AUG.2018 09:26:14

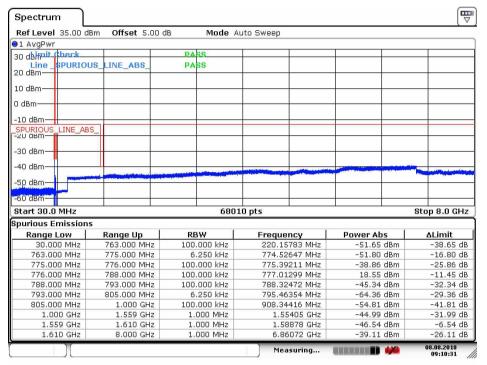


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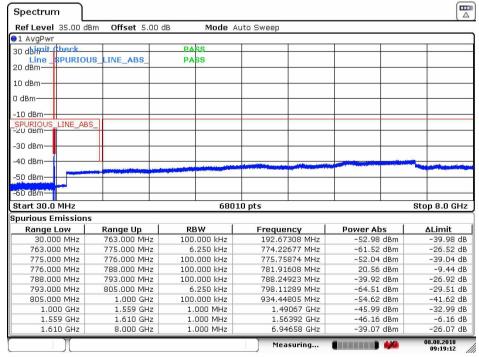
6.1.1.2 Test Mode = LTE-NB1/TM2.Sub-carrier spacing=3.75kHz

6.1.1.2.1 Test Channel = LCH



Date: 8.AUG.2018 09:10:31

6.1.1.2.2 Test Channel = MCH



Date: 8.AUG.2018 09:19:12

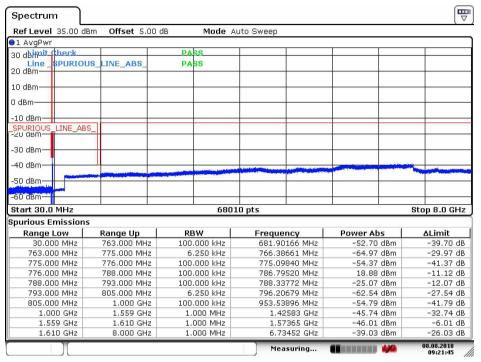
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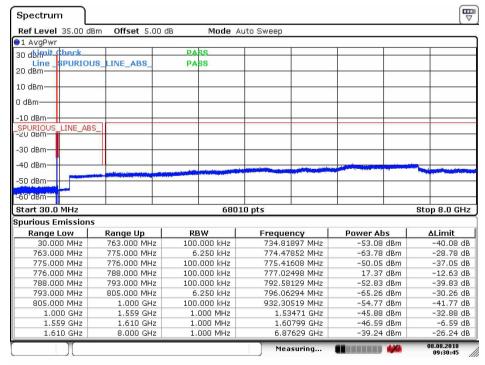
6.1.1.2.3 Test Channel = HCH



Date: 8.AUG.2018 09:21:45

6.1.1.3 Test Mode = LTE-NB1/TM1.Sub-carrier spacing=15kHz

6.1.1.3.1 Test Channel = LCH



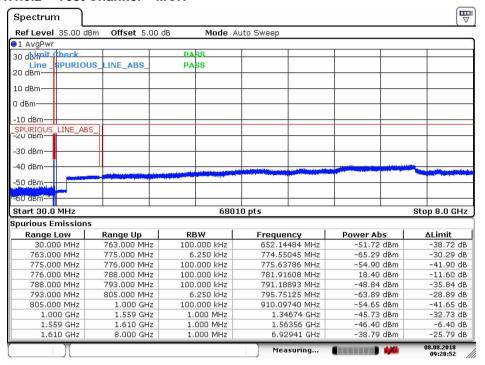
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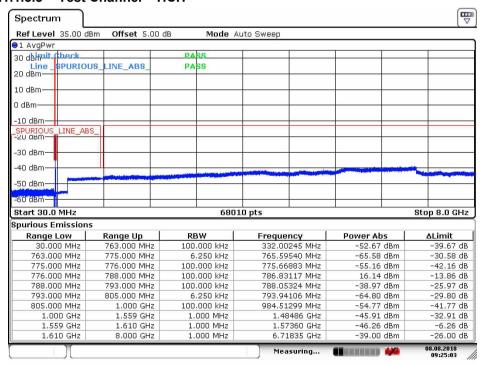
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6.1.1.3.2 Test Channel = MCH



Date: 8.AUG.2018 09:28:52

6.1.1.3.3 Test Channel = HCH



Date: 8.AUG.2018 09:25:03

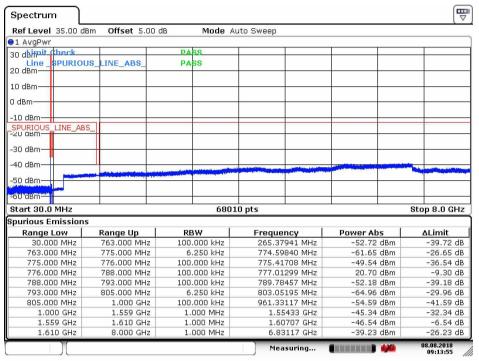


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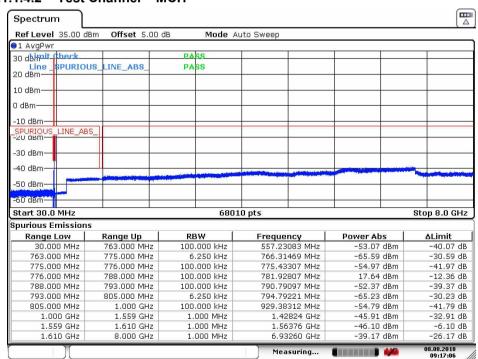
6.1.1.4 Test Mode = LTE-NB1/TM2.Sub-carrier spacing=15kHz

6.1.1.4.1 Test Channel = LCH



Date: 8.AUG.2018 09:13:56

6.1.1.4.2 Test Channel = MCH



Date: 8.AUG.2018 09:17:06

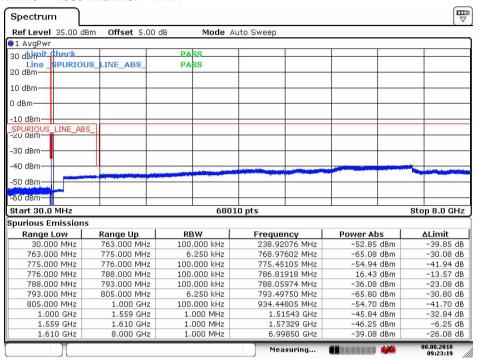
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6.1.1.4.3 Test Channel = HCH



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7 Field Strength of Spurious Radiation

7.1 For LTE-NB1

7.1.1 Test Band = LTE-NB1 band13

7.1.1.1 Test Mode =LTE-NB1/ Sub-carrier spacing=3.75kHz

7.1.1.1.1 Test Channel = LCH

	Test Chailler - LC	<u> </u>		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.813333	-81.67	-13.00	-68.67	Vertical
90.480000	-80.91	-13.00	-67.91	Vertical
590.891667	-80.43	-13.00	-67.43	Vertical
1559.000000	-55.74	-40.00	-15.74	Vertical
3221.812500	-68.94	-13.00	-55.94	Vertical
6040.050000	-65.53	-13.00	-52.53	Vertical
63.366667	-77.59	-13.00	-64.59	Horizontal
104.293333	-83.50	-13.00	-70.50	Horizontal
1039.000000	-61.18	-13.00	-48.18	Horizontal
1558.500000	-49.94	-13.00	-36.94	Horizontal
3117.487500	-63.67	-13.00	-50.67	Horizontal
6057.112500	-65.56	-13.00	-52.56	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.066667	-82.05	-13.00	-69.05	Vertical
90.480000	-83.97	-13.00	-70.97	Vertical
651.620833	-78.69	-13.00	-65.69	Vertical
1564.000000	-56.06	-40.00	-16.06	Vertical
2802.000000	-57.76	-13.00	-44.76	Vertical
6050.287500	-65.29	-13.00	-52.29	Vertical
63.226667	-77.96	-13.00	-64.96	Horizontal
104.293333	-85.33	-13.00	-72.33	Horizontal
1042.500000	-60.72	-13.00	-47.72	Horizontal
1563.500000	-50.22	-40.00	-10.22	Horizontal
3127.725000	-64.06	-13.00	-51.06	Horizontal
7829.662500	-64.56	-13.00	-51.56	Horizontal



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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
63.553333	-81.85	-13.00	-68.85	Vertical
104.293333	-84.81	-13.00	-71.81	Vertical
344.486667	-86.72	-13.00	-73.72	Vertical
1569.000000	-51.55	-40.00	-11.55	Vertical
3137.475000	-68.77	-13.00	-55.77	Vertical
5515.012500	-66.86	-13.00	-53.86	Vertical
62.993333	-78.12	-13.00	-65.12	Horizontal
104.293333	-88.81	-13.00	-75.81	Horizontal
268.560000	-87.81	-13.00	-74.81	Horizontal
1569.000000	-46.09	-40.00	-6.09	Horizontal
3136.987500	-69.02	-13.00	-56.02	Horizontal
6490.500000	-65.37	-13.00	-52.37	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	5.51	0.007089	PASS
		LCH	TN	VN	-8.99	-0.011572	PASS
				VH	-6.82	-0.008781	PASS
				VL	8.05	0.010300	PASS
	TM1/15k	MCH	TN	VN	6.91	0.008835	PASS
				VH	3.09	0.003951	PASS
		НСН	TN	VL	-9.73	-0.012369	PASS
				VN	0.75	0.000947	PASS
BAND13				VH	-2.79	-0.003546	PASS
DANDIS		LCH	TN	VL	0.62	0.000799	PASS
				VN	-9.39	-0.012085	PASS
				VH	9.08	0.011686	PASS
				VL	-3.87	-0.004949	PASS
	TM2/15k	MCH	TN	VN	6.44	0.008240	PASS
				VH	-5.40	-0.006908	PASS
				VL	4.58	0.005815	PASS
		HCH	HCH TN	VN	-9.97	-0.012670	PASS
				VH	1.86	0.002365	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	-7.60	-0.009786	PASS																		
				-20	-4.75	-0.006118	PASS																		
					-10	-4.61	-0.005927	PASS																	
					0	3.49	0.004485	PASS																	
		LCH	VN	10	-8.32	-0.010702	PASS																		
				20	-8.64	-0.011122	PASS																		
				30	-5.72	-0.007364	PASS																		
				40	2.82	0.003623	PASS																		
				50	9.88	0.012708	PASS																		
	TM1 15kHz MCF			-30	8.80	0.011250	PASS																		
				-20	-8.52	-0.010894	PASS																		
					-10	6.68	0.008548	PASS																	
			z MCH		0	-4.94	-0.006316	PASS																	
BAND13		MCH		MCH	MCH	MCH	VN	10	7.59	0.009707	PASS														
															20	7.04	0.008996	PASS							
								30	6.09	0.007784	PASS														
																									40
				50	-0.14	-0.000175	PASS																		
				-30	2.68	0.003407	PASS																		
				-20	1.07	0.001356	PASS																		
				-10	-4.40	-0.005595	PASS																		
				0	7.29	0.009265	PASS																		
		HCH	VN	10	-7.04	-0.008949	PASS																		
				20	9.61	0.012214	PASS																		
				30	-5.50	-0.006988	PASS																		
				40	0.04	0.000048	PASS																		
				50	6.34	0.008060	PASS																		



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
				-30	-4.56	-0.005862	PASS			
					-20	-1.53	-0.001967	PASS		
				-10	-4.98	-0.006410	PASS			
				0	-3.46	-0.004448	PASS			
		LCH	VN	10	-6.30	-0.008109	PASS			
				20	-1.73	-0.002232	PASS			
				30	-8.27	-0.010645	PASS			
				40	0.66	0.000844	PASS			
				50	-2.66	-0.003424	PASS			
		МСН		-30	-0.23	-0.000293	PASS			
				-20	9.60	0.012280	PASS			
	TM2 15kHz			-10	1.55	0.001983	PASS			
			МСН		0	-7.07	-0.009046	PASS		
BAND13				MCH	MCH	VN	H VN	10	-1.28	-0.001634
								20	-6.77	-0.008660
				30	8.53	0.010910	PASS			
				40	-8.68	-0.011100	PASS			
				50	-9.13	-0.011669	PASS			
				-30	-4.61	-0.005857	PASS			
				-20	-5.81	-0.007385	PASS			
				-10	-5.69	-0.007231	PASS			
				0	-1.60	-0.002037	PASS			
		HCH	VN	10	-6.27	-0.007964	PASS			
				20	-5.29	-0.006718	PASS			
				30	-9.23	-0.011733	PASS			
				40	-6.37	-0.008089	PASS			
				50	-8.92	-0.011330	PASS			

The End