



Appendix B

E-UTRA Band 2



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 2

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM1	5M	LCH	RB1#0	22.15	23.65	33.00	PASS
				RB1#13	22.46	23.96	33.00	PASS
				RB1#24	22.43	23.93	33.00	PASS
				RB12#0	22.49	23.99	33.00	PASS
				RB12#6	22.52	24.02	33.00	PASS
				RB12#13	22.75	24.25	33.00	PASS
				RB25#0	21.56	23.06	33.00	PASS
			MCH	RB1#0	23.53	25.03	33.00	PASS
				RB1#13	22.89	24.39	33.00	PASS
				RB1#24	22.41	23.91	33.00	PASS
				RB12#0	23.37	24.87	33.00	PASS
				RB12#6	23.56	25.06	33.00	PASS
				RB12#13	23.42	24.92	33.00	PASS
				RB25#0	22.06	23.56	33.00	PASS
			HCH	RB1#0	23.52	25.02	33.00	PASS
				RB1#13	21.72	23.22	33.00	PASS
				RB1#24	21.69	23.19	33.00	PASS
				RB12#0	22.82	24.32	33.00	PASS
				RB12#6	22.19	23.69	33.00	PASS
				RB12#13	21.82	23.32	33.00	PASS
				RB25#0	21.13	22.63	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
BAND2	LTE/TM2	5M	LCH	RB1#0	20.58	22.08	33.00	PASS
				RB1#13	21.74	23.24	33.00	PASS
				RB1#24	22.05	23.55	33.00	PASS
				RB12#0	19.81	21.31	33.00	PASS
				RB12#6	20.66	22.16	33.00	PASS
				RB12#13	20.54	22.04	33.00	PASS
				RB25#0	20.72	22.22	33.00	PASS
			MCH	RB1#0	23.07	24.57	33.00	PASS
				RB1#13	22.7	24.2	33.00	PASS
				RB1#24	21.44	22.94	33.00	PASS
				RB12#0	20.61	22.11	33.00	PASS
				RB12#6	20.49	21.99	33.00	PASS
				RB12#13	20.24	21.74	33.00	PASS
				RB25#0	20.68	22.18	33.00	PASS
			HCH	RB1#0	21.56	23.06	33.00	PASS
				RB1#13	20.9	22.4	33.00	PASS
				RB1#24	20.86	22.36	33.00	PASS
				RB12#0	19.67	21.17	33.00	PASS
				RB12#6	20.01	21.51	33.00	PASS
				RB12#13	19.62	21.12	33.00	PASS
				RB25#0	19.68	21.18	33.00	PASS

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BAND2	LTE/TM1	10M	LCH	RB1#0	22.04	23.54	33.00	PASS
				RB1#25	23.02	24.52	33.00	PASS
				RB1#49	22.82	24.32	33.00	PASS
				RB25#0	21.33	22.83	33.00	PASS
				RB25#13	21.66	23.16	33.00	PASS
				RB25#25	21.82	23.32	33.00	PASS
				RB50#0	21.75	23.25	33.00	PASS
			MCH	RB1#0	23.23	24.73	33.00	PASS
				RB1#25	23.23	24.73	33.00	PASS
				RB1#49	22.41	23.91	33.00	PASS
				RB25#0	22.19	23.69	33.00	PASS
				RB25#13	21.45	22.95	33.00	PASS
				RB25#25	21.44	22.94	33.00	PASS
				RB50#0	21.58	23.08	33.00	PASS
			HCH	RB1#0	23.52	25.02	33.00	PASS
				RB1#25	22.45	23.95	33.00	PASS
				RB1#49	21.47	22.97	33.00	PASS
				RB25#0	21.72	23.22	33.00	PASS
				RB25#13	21.37	22.87	33.00	PASS
				RB25#25	21.36	22.86	33.00	PASS
				RB50#0	21.82	23.32	33.00	PASS

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BAND2	LTE/TM2	10M	LCH	RB1#0	20.76	22.26	33.00	PASS
				RB1#25	21.86	23.36	33.00	PASS
				RB1#49	22.88	24.38	33.00	PASS
				RB25#0	19.97	21.47	33.00	PASS
				RB25#13	20.57	22.07	33.00	PASS
				RB25#25	20.65	22.15	33.00	PASS
				RB50#0	20.05	21.55	33.00	PASS
			MCH	RB1#0	23.32	24.82	33.00	PASS
				RB1#25	21.62	23.12	33.00	PASS
				RB1#49	21.28	22.78	33.00	PASS
				RB25#0	20.63	22.13	33.00	PASS
				RB25#13	20.88	22.38	33.00	PASS
				RB25#25	20.37	21.87	33.00	PASS
				RB50#0	20.96	22.46	33.00	PASS
			HCH	RB1#0	22.18	23.68	33.00	PASS
				RB1#25	21.09	22.59	33.00	PASS
				RB1#49	20.6	22.1	33.00	PASS
				RB25#0	20.66	22.16	33.00	PASS
				RB25#13	19.74	21.24	33.00	PASS
				RB25#25	19.91	21.41	33.00	PASS
				RB50#0	20.24	21.74	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
BAND2	LTE/TM1	15M	LCH	RB1#0	22.46	23.96	33.00	PASS
				RB1#38	23.17	24.67	33.00	PASS
				RB1#74	23.45	24.95	33.00	PASS
				RB36#0	21.64	23.14	33.00	PASS
				RB36#18	21.81	23.31	33.00	PASS
				RB36#39	22.29	23.79	33.00	PASS
				RB75#0	21.92	23.42	33.00	PASS
			MCH	RB1#0	23.34	24.84	33.00	PASS
				RB1#38	22.51	24.01	33.00	PASS
				RB1#74	22.08	23.58	33.00	PASS
				RB36#0	22.11	23.61	33.00	PASS
				RB36#18	21.71	23.21	33.00	PASS
				RB36#39	21.67	23.17	33.00	PASS
				RB75#0	21.66	23.16	33.00	PASS
			HCH	RB1#0	22.57	24.07	33.00	PASS
				RB1#38	21.32	22.82	33.00	PASS
				RB1#74	21.39	22.89	33.00	PASS
				RB36#0	22.06	23.56	33.00	PASS
				RB36#18	22.1	23.6	33.00	PASS
				RB36#39	21.24	22.74	33.00	PASS
				RB75#0	21.71	23.21	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
BAND2	LTE/TM2	15M	LCH	RB1#0	21.49	22.99	33.00	PASS
				RB1#38	21.81	23.31	33.00	PASS
				RB1#74	22.91	24.41	33.00	PASS
				RB36#0	20.54	22.04	33.00	PASS
				RB36#18	21.24	22.74	33.00	PASS
				RB36#39	21.08	22.58	33.00	PASS
				RB75#0	20.89	22.39	33.00	PASS
			MCH	RB1#0	23.01	24.51	33.00	PASS
				RB1#38	21.94	23.44	33.00	PASS
				RB1#74	21.62	23.12	33.00	PASS
				RB36#0	21.09	22.59	33.00	PASS
				RB36#18	20.77	22.27	33.00	PASS
				RB36#39	20.29	21.79	33.00	PASS
				RB75#0	20.83	22.33	33.00	PASS
			HCH	RB1#0	22.49	23.99	33.00	PASS
				RB1#38	23.02	24.52	33.00	PASS
				RB1#74	20.4	21.9	33.00	PASS
				RB36#0	20.85	22.35	33.00	PASS
				RB36#18	20.77	22.27	33.00	PASS
				RB36#39	20.04	21.54	33.00	PASS
				RB75#0	20.53	22.03	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
BAND2	LTE/TM1	20M	LCH	RB1#0	22.45	23.95	33.00	PASS
				RB1#50	23.41	24.91	33.00	PASS
				RB1#99	23.19	24.69	33.00	PASS
				RB50#0	21.63	23.13	33.00	PASS
				RB50#25	22.37	23.87	33.00	PASS
				RB50#50	22.83	24.33	33.00	PASS
				RB100#0	21.97	23.47	33.00	PASS
			MCH	RB1#0	23.77	25.27	33.00	PASS
				RB1#50	23.28	24.78	33.00	PASS
				RB1#99	22.24	23.74	33.00	PASS
				RB50#0	22.11	23.61	33.00	PASS
				RB50#25	21.59	23.09	33.00	PASS
				RB50#50	21.21	22.71	33.00	PASS
				RB100#0	21.66	23.16	33.00	PASS
			HCH	RB1#0	22.01	23.51	33.00	PASS
				RB1#50	22.83	24.33	33.00	PASS
				RB1#99	21.6	23.1	33.00	PASS
				RB50#0	21.51	23.01	33.00	PASS
				RB50#25	21.71	23.21	33.00	PASS
				RB50#50	21.2	22.7	33.00	PASS
				RB100#0	21.44	22.94	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
BAND2	LTE/TM2	20M	LCH	RB1#0	21.25	22.75	33.00	PASS
				RB1#50	21.82	23.32	33.00	PASS
				RB1#99	21.92	23.42	33.00	PASS
				RB50#0	20.87	22.37	33.00	PASS
				RB50#25	21.15	22.65	33.00	PASS
				RB50#50	21.27	22.77	33.00	PASS
				RB100#0	21.04	22.54	33.00	PASS
			MCH	RB1#0	22.25	23.75	33.00	PASS
				RB1#50	21.33	22.83	33.00	PASS
				RB1#99	21.02	22.52	33.00	PASS
				RB50#0	21.17	22.67	33.00	PASS
				RB50#25	20.82	22.32	33.00	PASS
				RB50#50	20.46	21.96	33.00	PASS
				RB100#0	20.71	22.21	33.00	PASS
			HCH	RB1#0	21.03	22.53	33.00	PASS
				RB1#50	21.58	23.08	33.00	PASS
				RB1#99	20.16	21.66	33.00	PASS
				RB50#0	20.71	22.21	33.00	PASS
				RB50#25	20.84	22.34	33.00	PASS
				RB50#50	20.38	21.88	33.00	PASS
				RB100#0	20.48	21.98	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,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

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
Band 2	TM1/20M	LCH	5.77	13	PASS
		MCH	5.83	13	PASS
		HCH	5.68	13	PASS
	TM2/20M	LCH	6.67	13	PASS
		MCH	6.67	13	PASS
		HCH	6.67	13	PASS

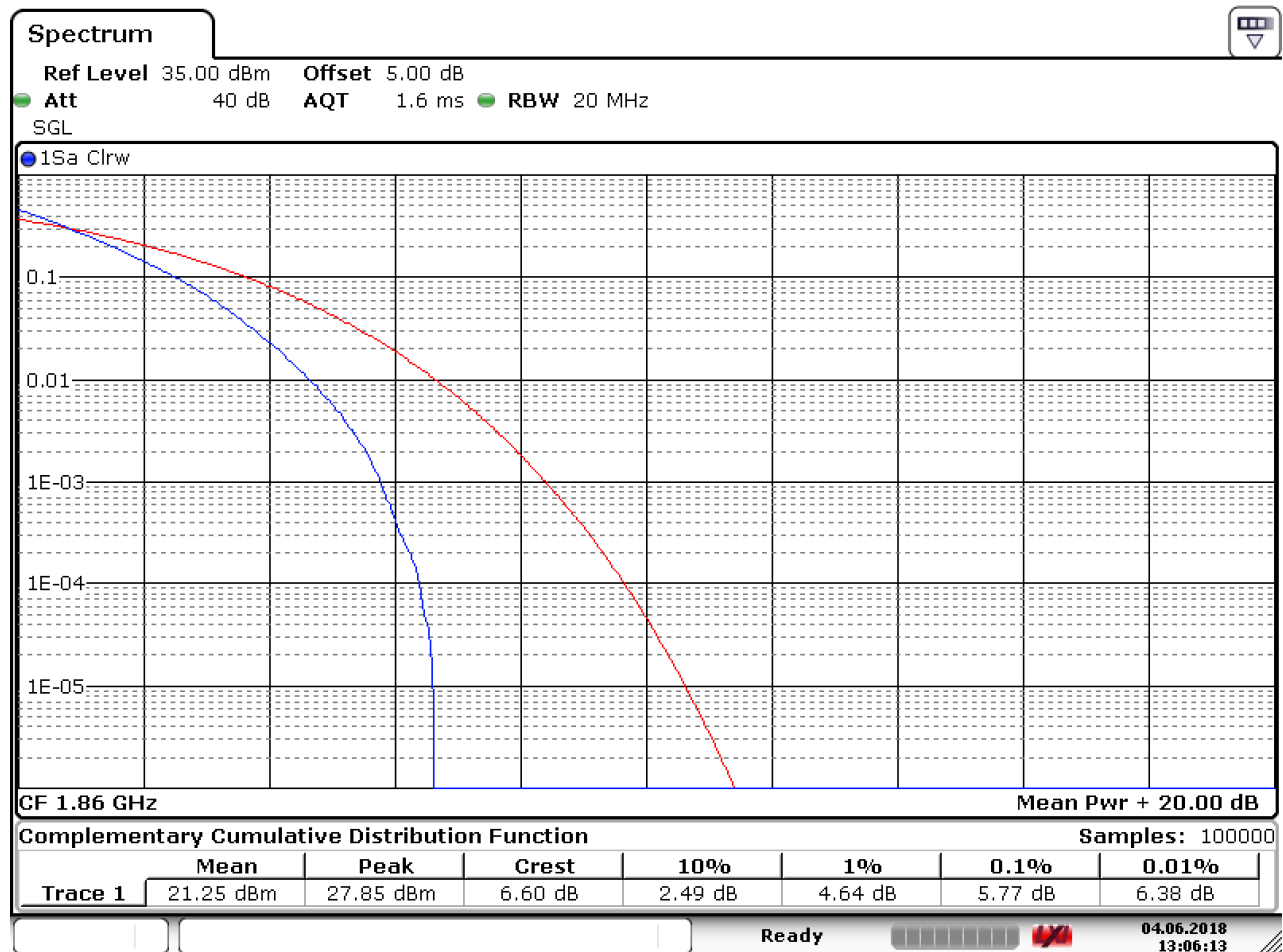
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band2

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

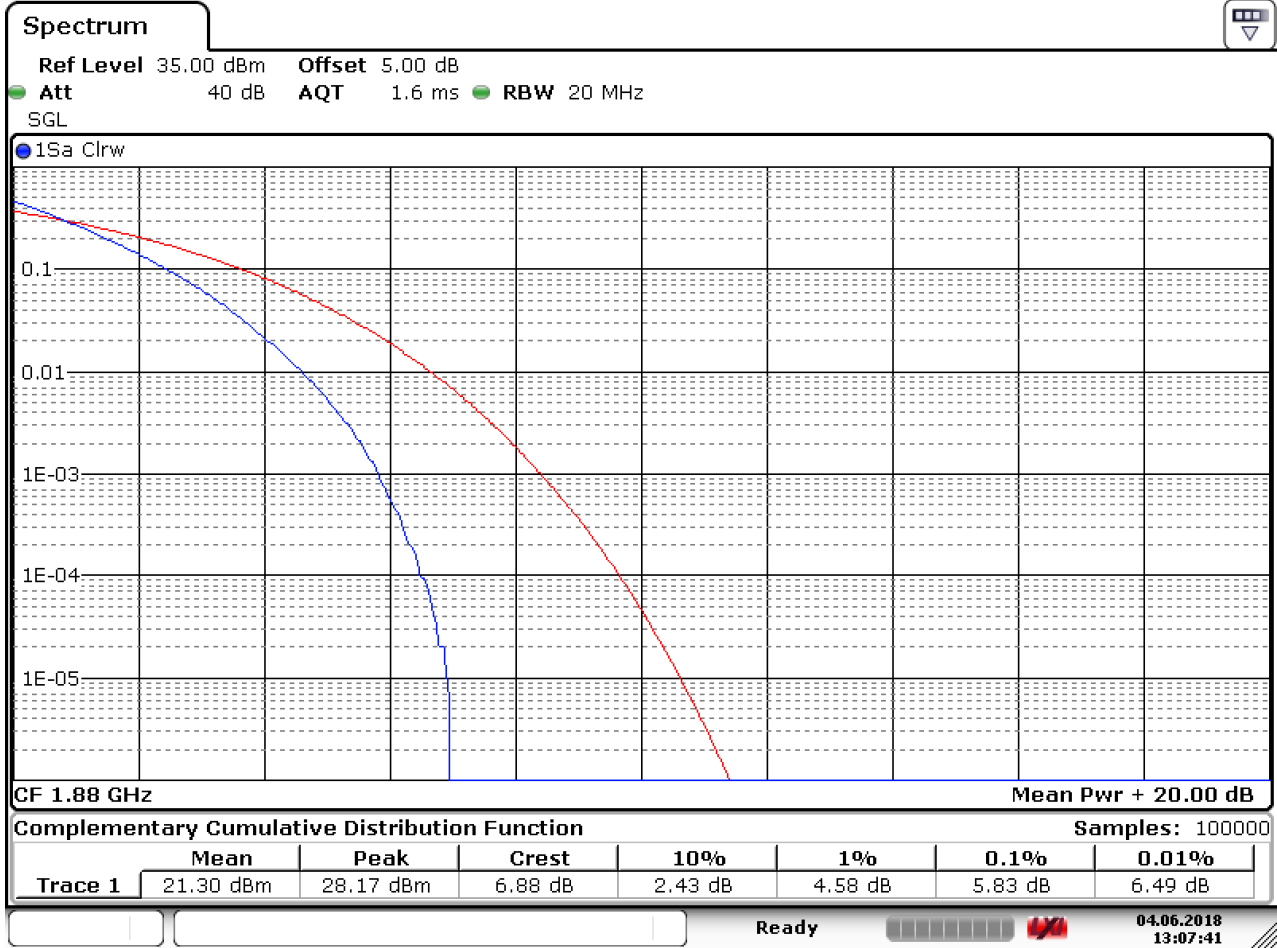
2.1.1.1.1 Test Channel = LCH



Date: 4.JUN.2018 13:06:13



2.1.1.1.2 Test Channel = MCH

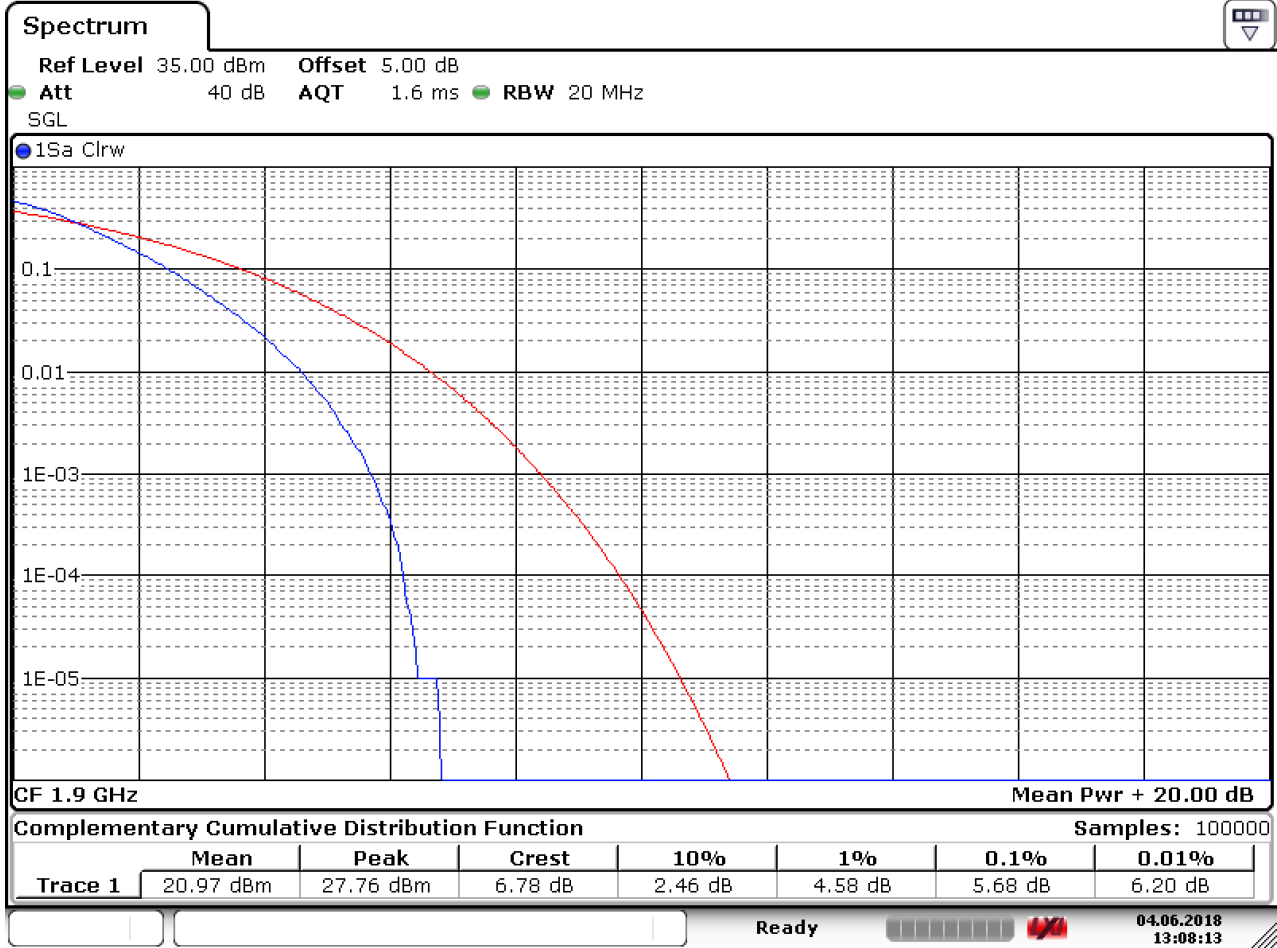


Date: 4.JUN.2018 13:07:41

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2.1.1.1.3 Test Channel = HCH



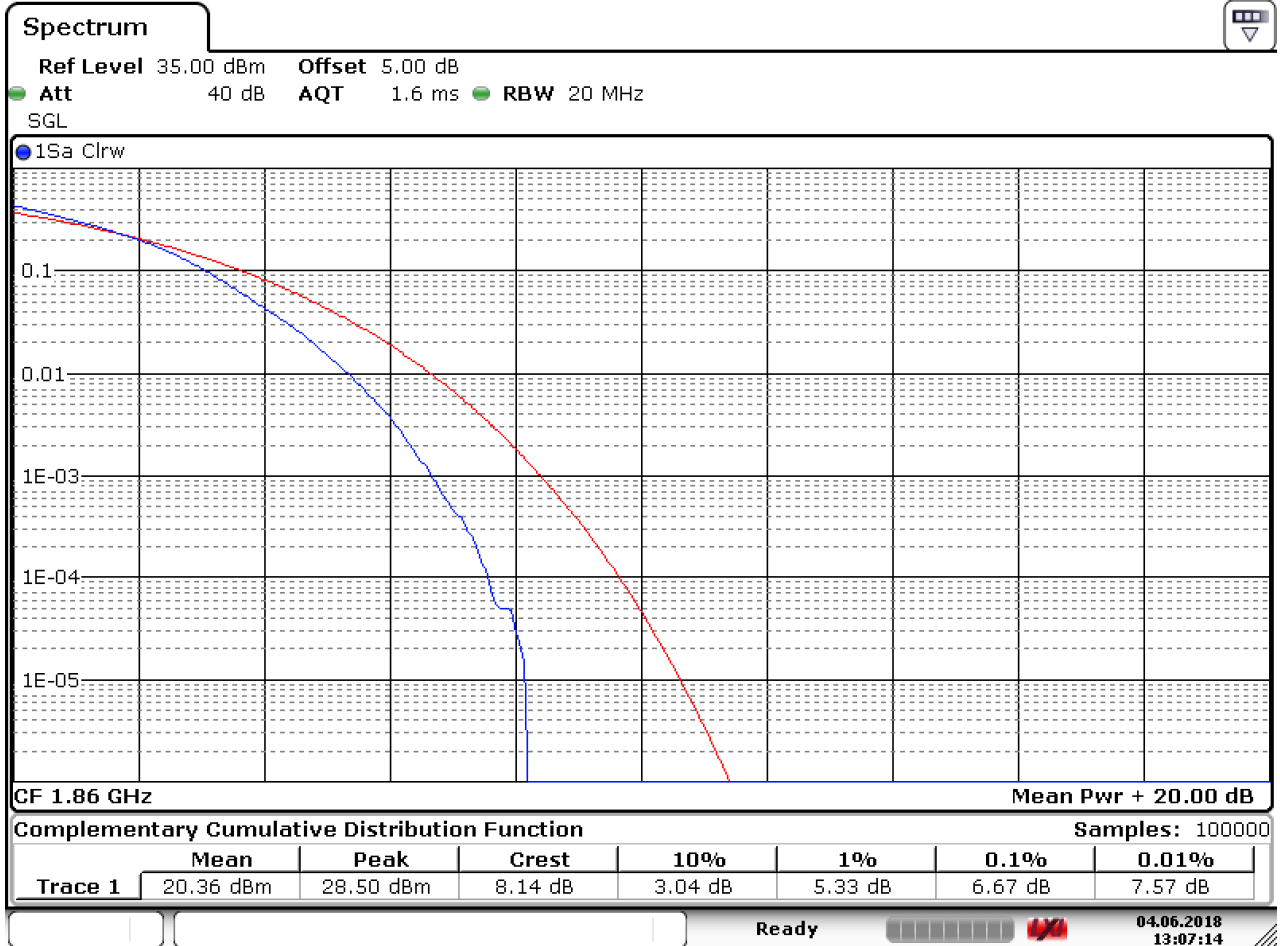
Date: 4.JUN.2018 13:08:14

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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz

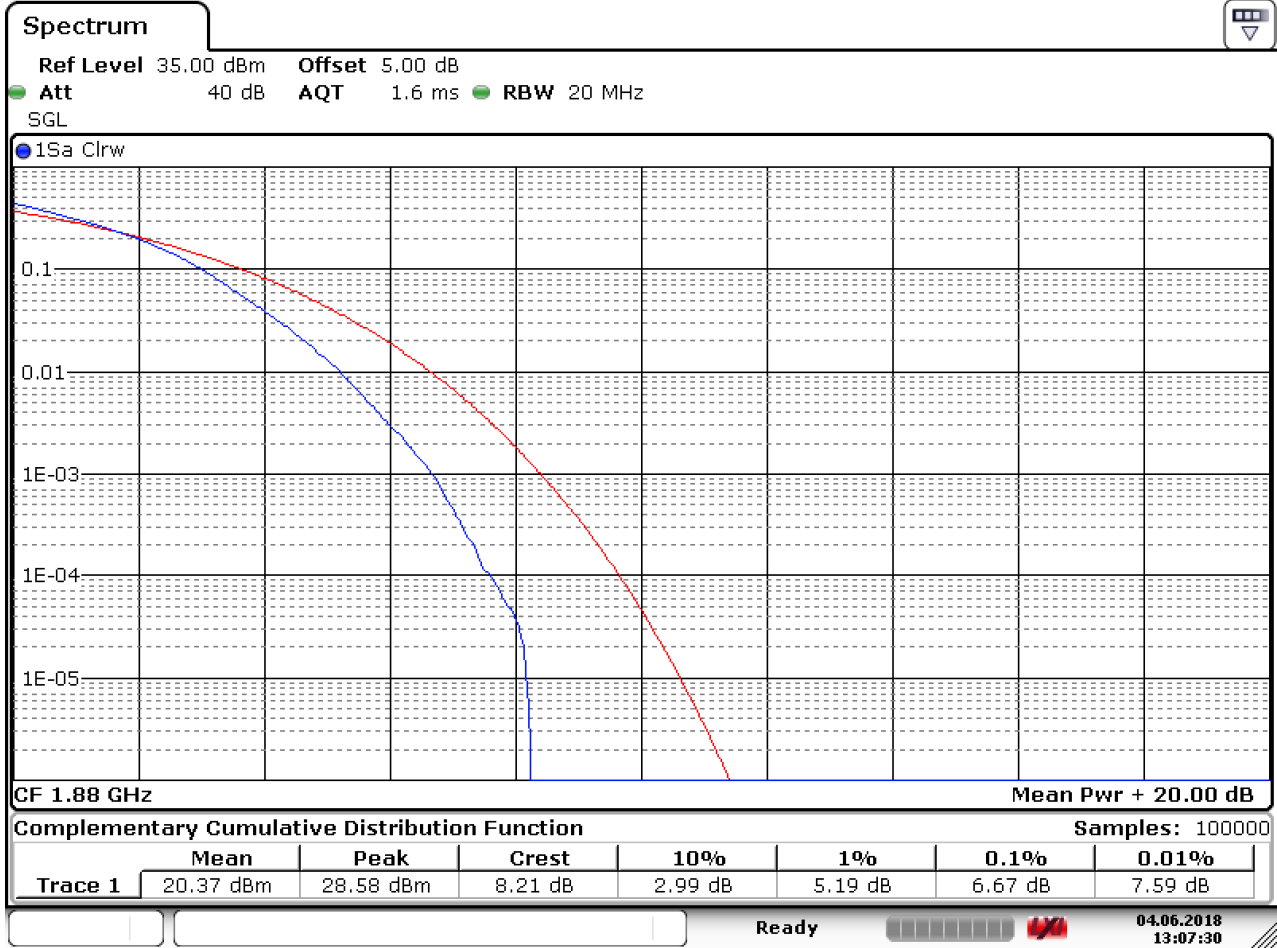
2.1.1.2.1 Test Channel = LCH



Date: 4.JUN.2018 13:07:14



2.1.1.2.2 Test Channel = MCH

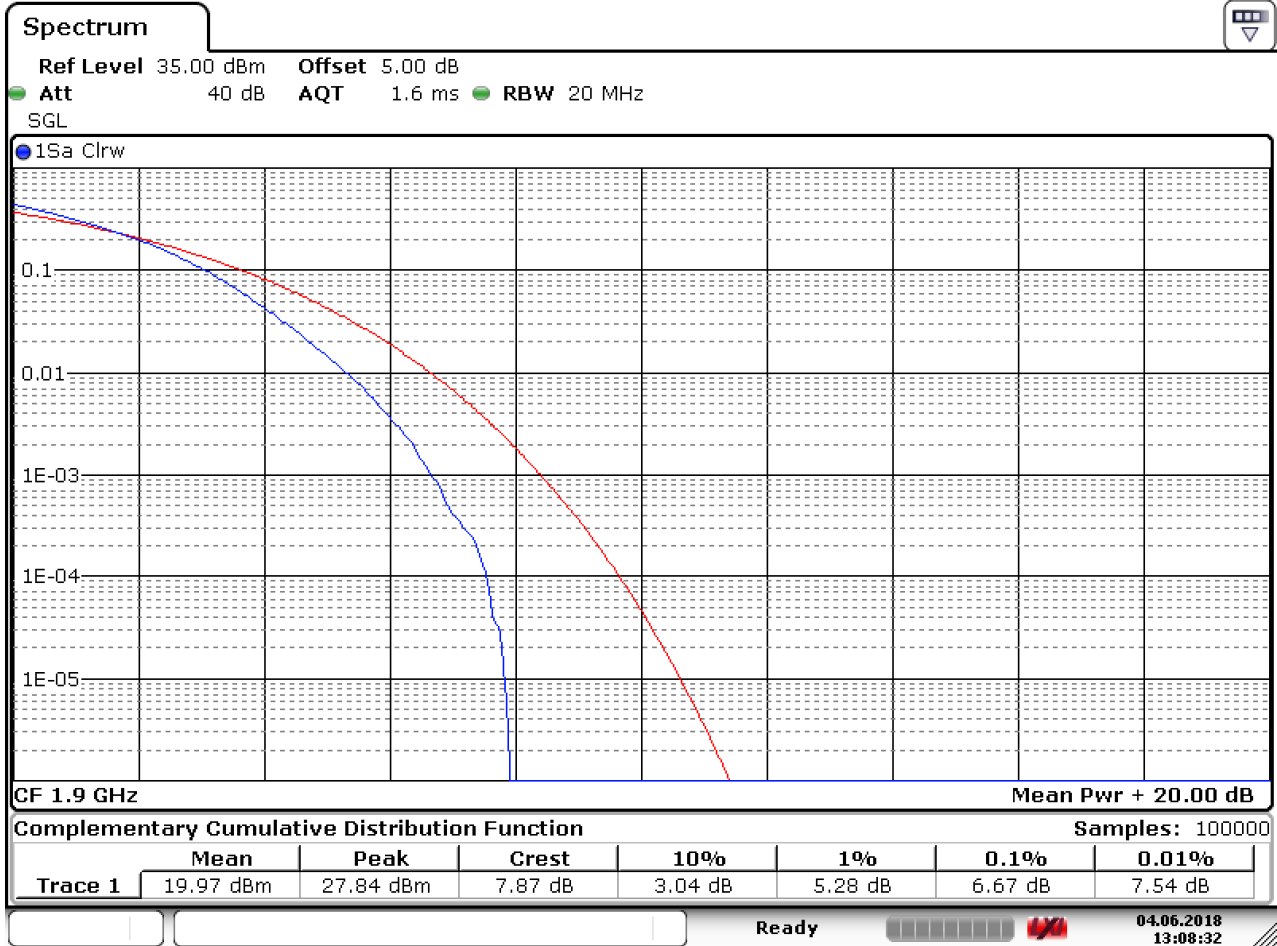


Date: 4.JUN.2018 13:07:30

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2.1.1.2.3 Test Channel = HCH



Date: 4.JUN.2018 13:08:32

3 Modulation Characteristics

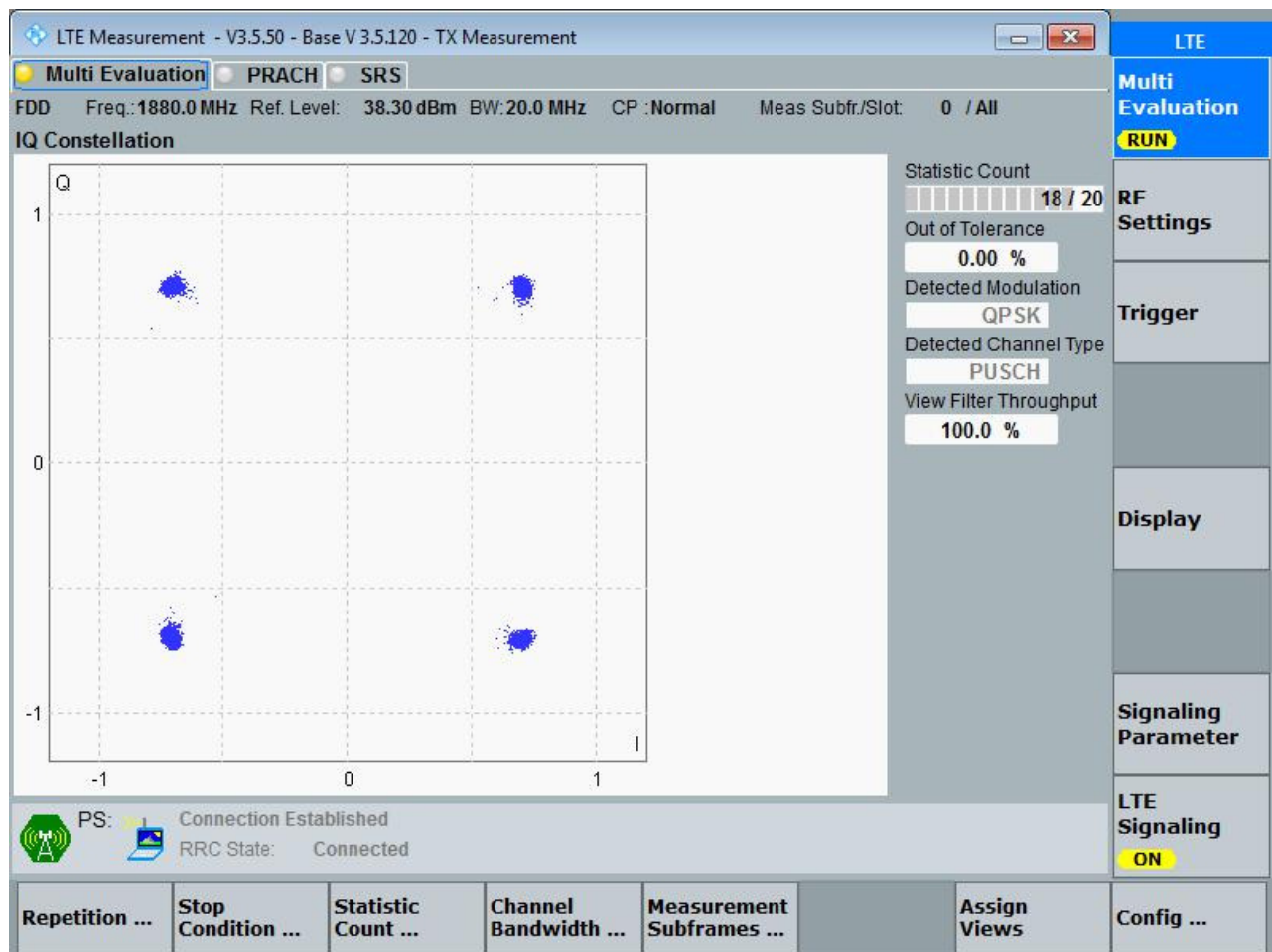
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band2

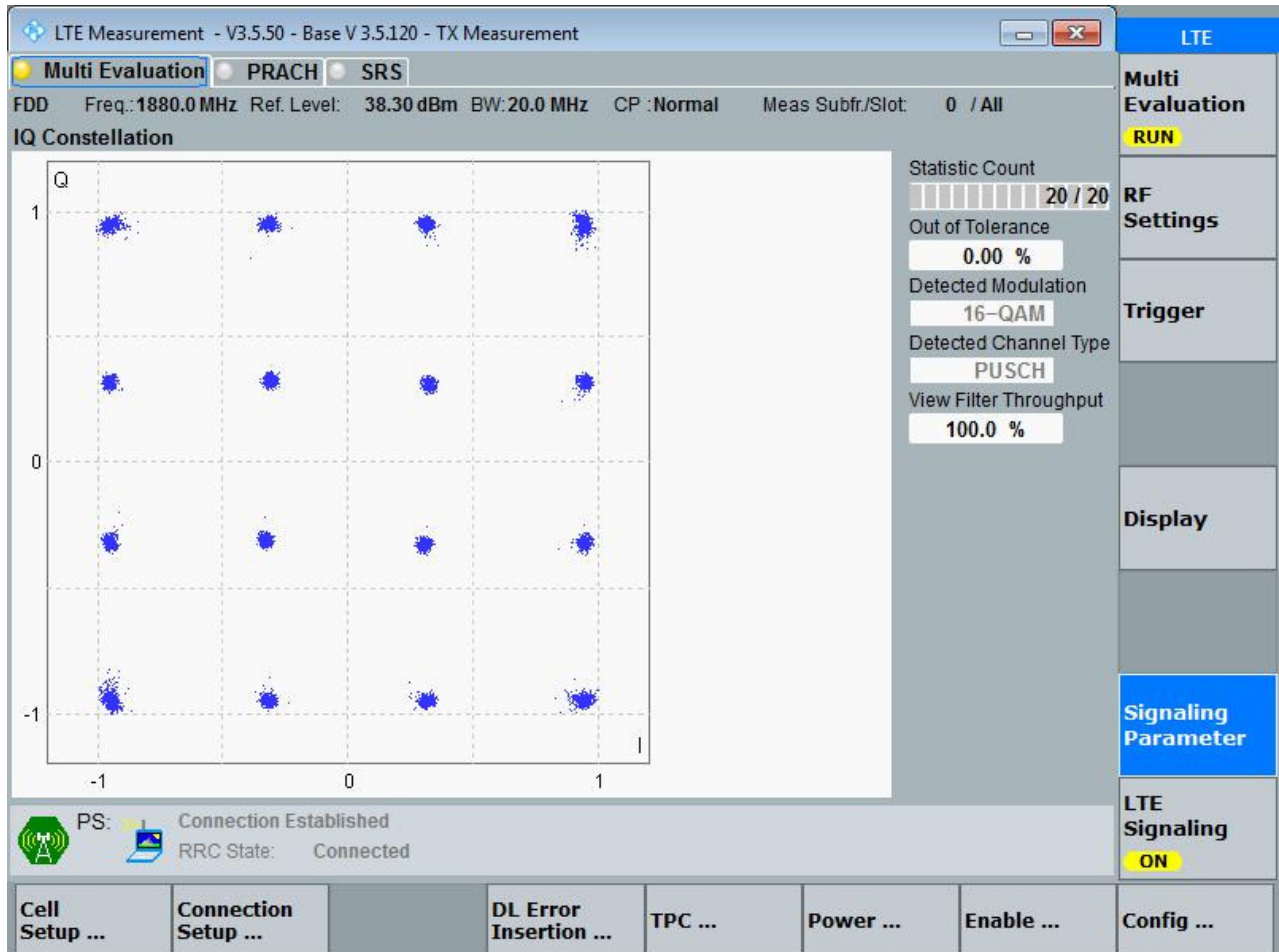
3.1.1.1 Test Mode = LTE /TM1 20MHz

3.1.1.1.1 Test Channel = MCH



3.1.1.2 Test Mode = LTE /TM2 20MHz

3.1.1.2.1 Test Channel = MCH





4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
LTE Band 2	TM1/ 5MHz	LCH	4.48	4.83	PASS
		MCH	4.49	4.85	PASS
		HCH	4.47	4.82	PASS
	TM2/ 5MHz	LCH	4.47	4.86	PASS
		MCH	4.47	4.85	PASS
		HCH	4.47	4.80	PASS
	TM1/10MHz	LCH	8.93	9.61	PASS
		MCH	8.91	9.65	PASS
		HCH	8.93	9.65	PASS
	TM2/ 10MHz	LCH	8.93	9.61	PASS
		MCH	8.93	9.69	PASS
		HCH	8.91	9.57	PASS
	TM1/ 15MHz	LCH	13.49	14.81	PASS
		MCH	13.46	14.75	PASS
		HCH	13.49	14.75	PASS
	TM2/ 15MHz	LCH	13.55	14.87	PASS
		MCH	13.52	14.90	PASS
		HCH	13.46	14.66	PASS
	TM1/ 20MHz	LCH	17.90	19.34	PASS
		MCH	17.94	19.18	PASS
		HCH	17.86	19.34	PASS
	TM2/ 20MHz	LCH	18.02	19.34	PASS
		MCH	17.90	19.34	PASS
		HCH	17.86	19.26	PASS

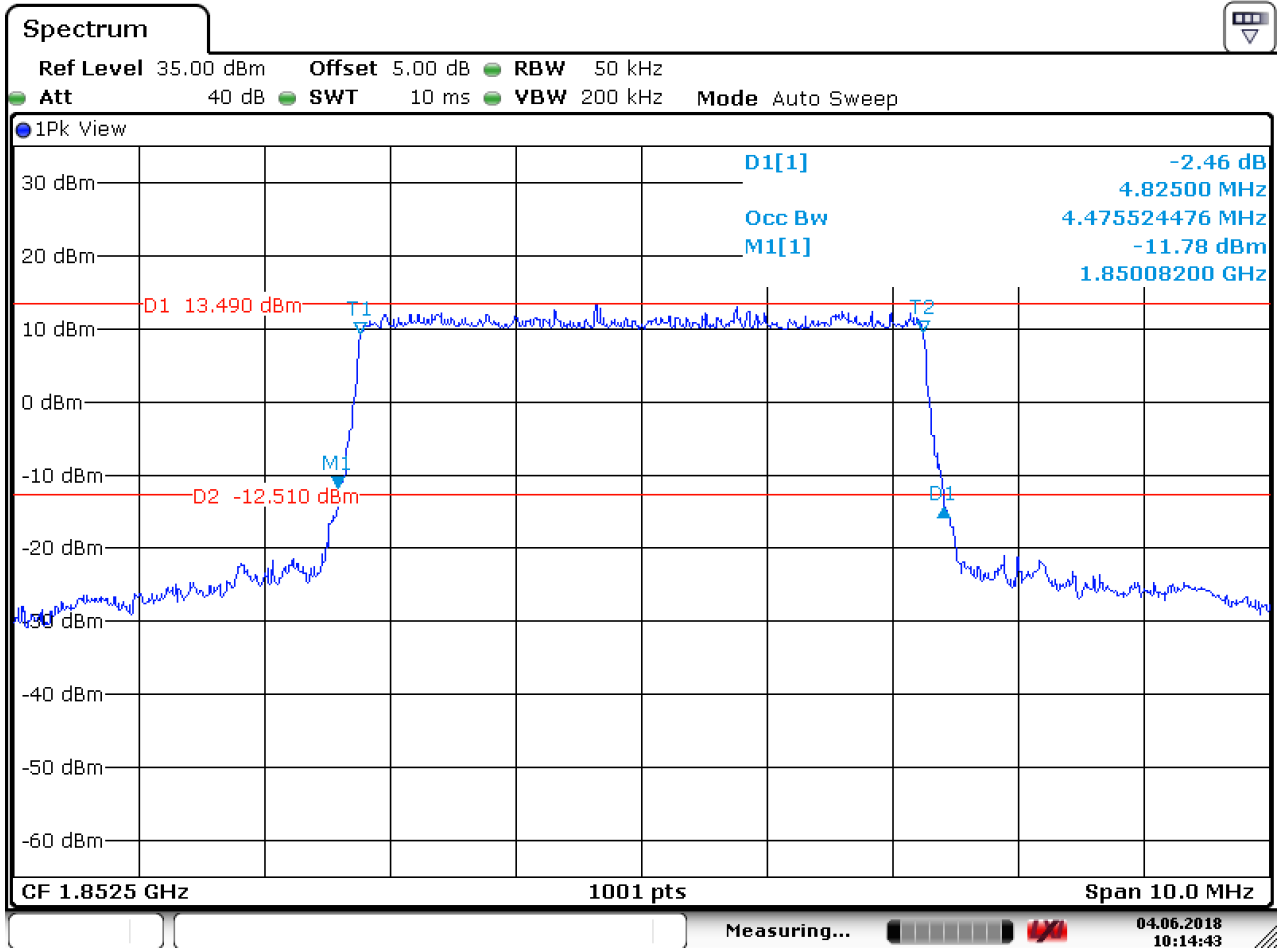


4.1 For LTE

4.1.1 Test Band = LTE band2

4.1.1.1 Test Mode = LTE/TM1 5MHz

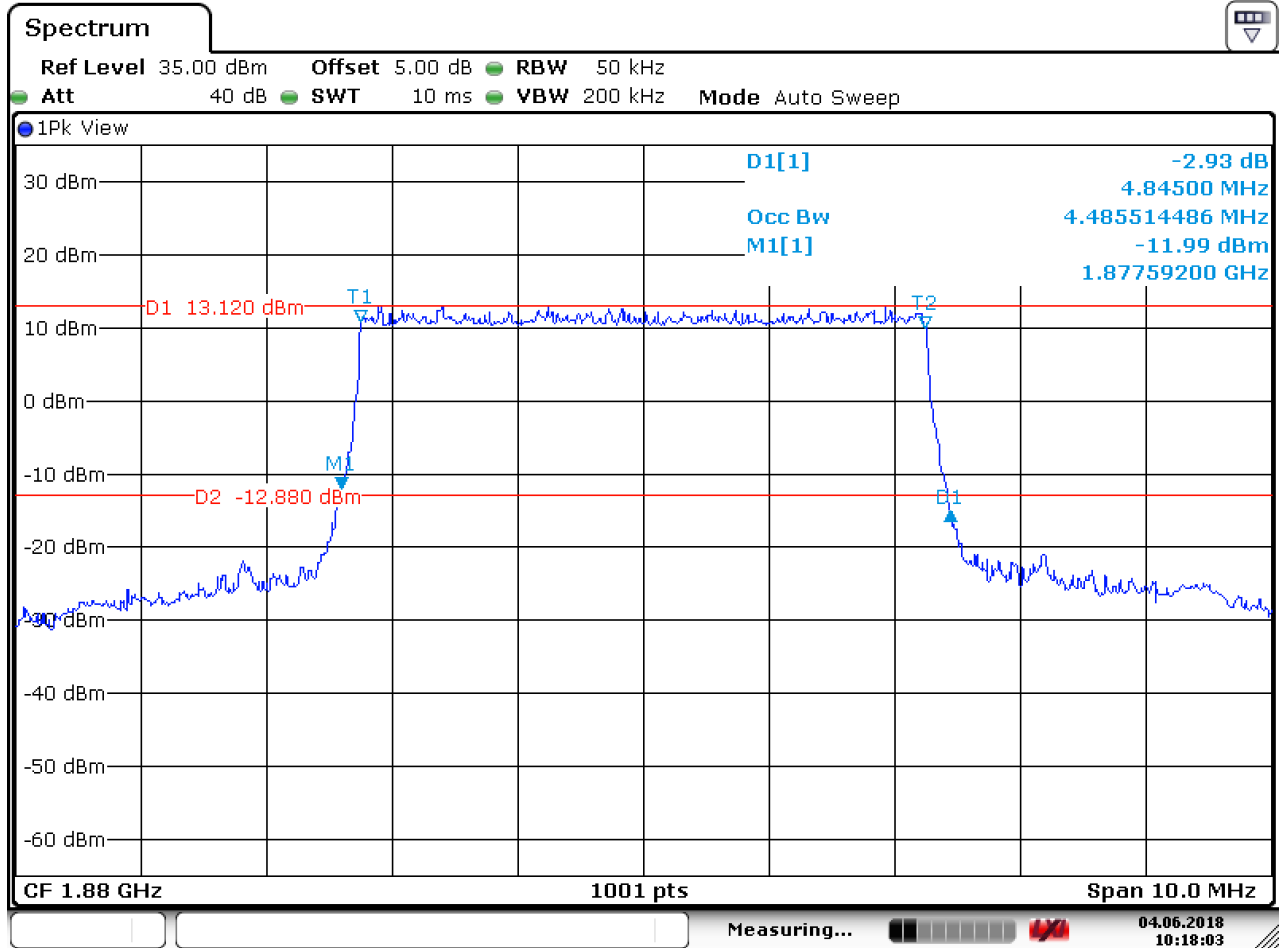
4.1.1.1.1 Test Channel = LCH



Date: 4.JUN.2018 10:14:44

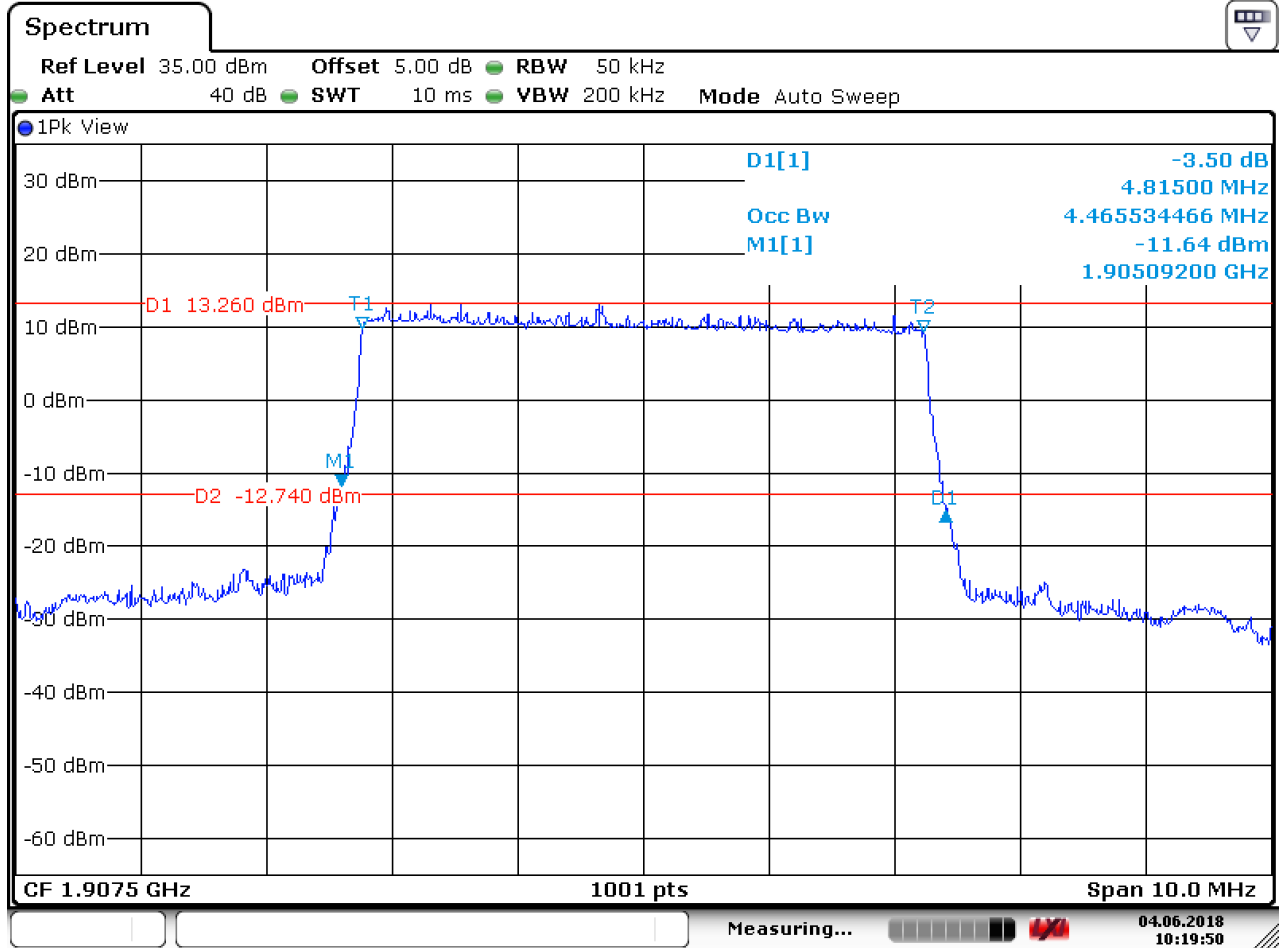


4.1.1.1.2 Test Channel = MCH



Date: 4.JUN.2018 10:18:03

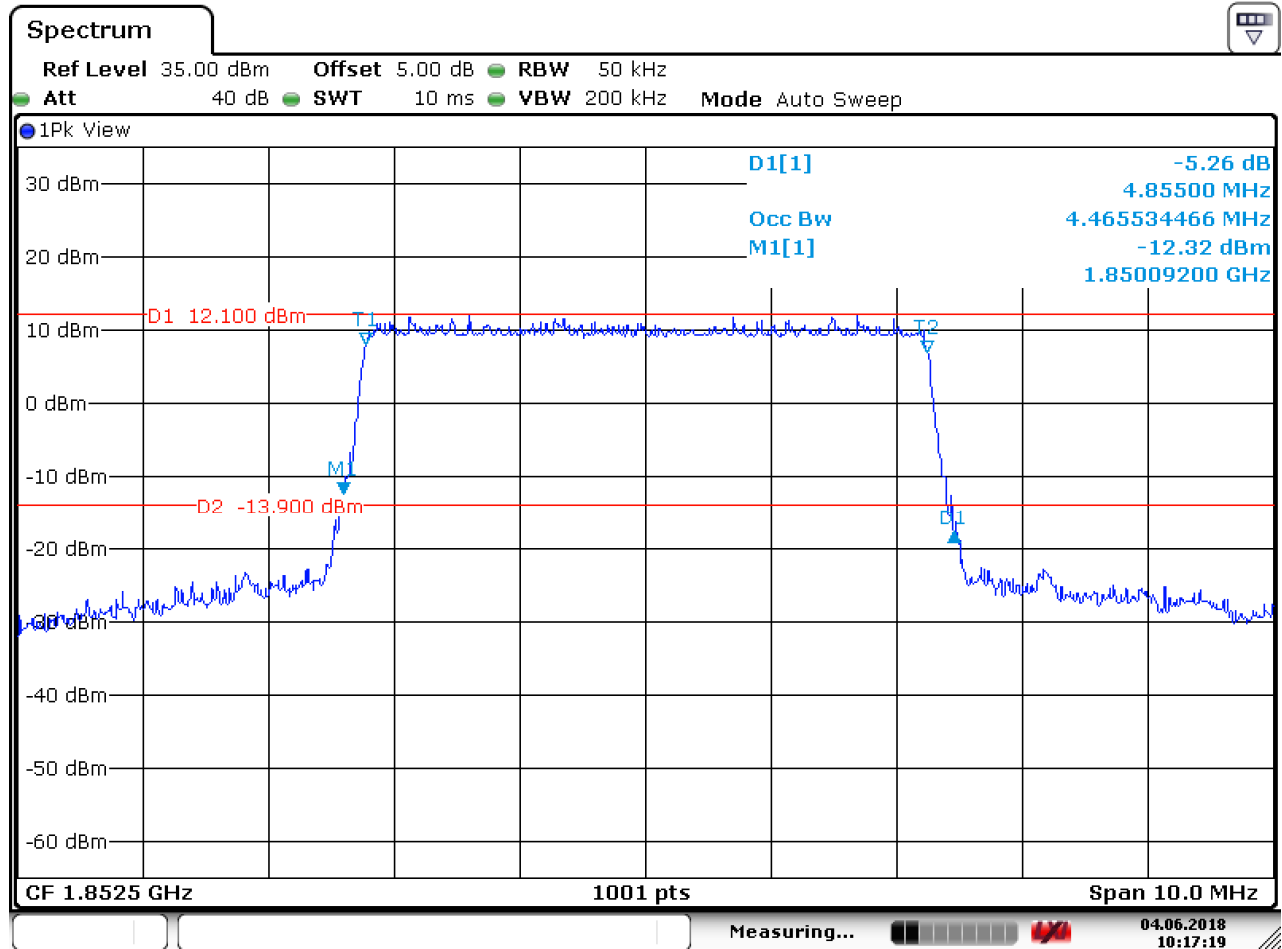
4.1.1.1.3 Test Channel = HCH



Date: 4.JUN.2018 10:19:51

4.1.1.2 Test Mode = LTE/TM2 5MHz

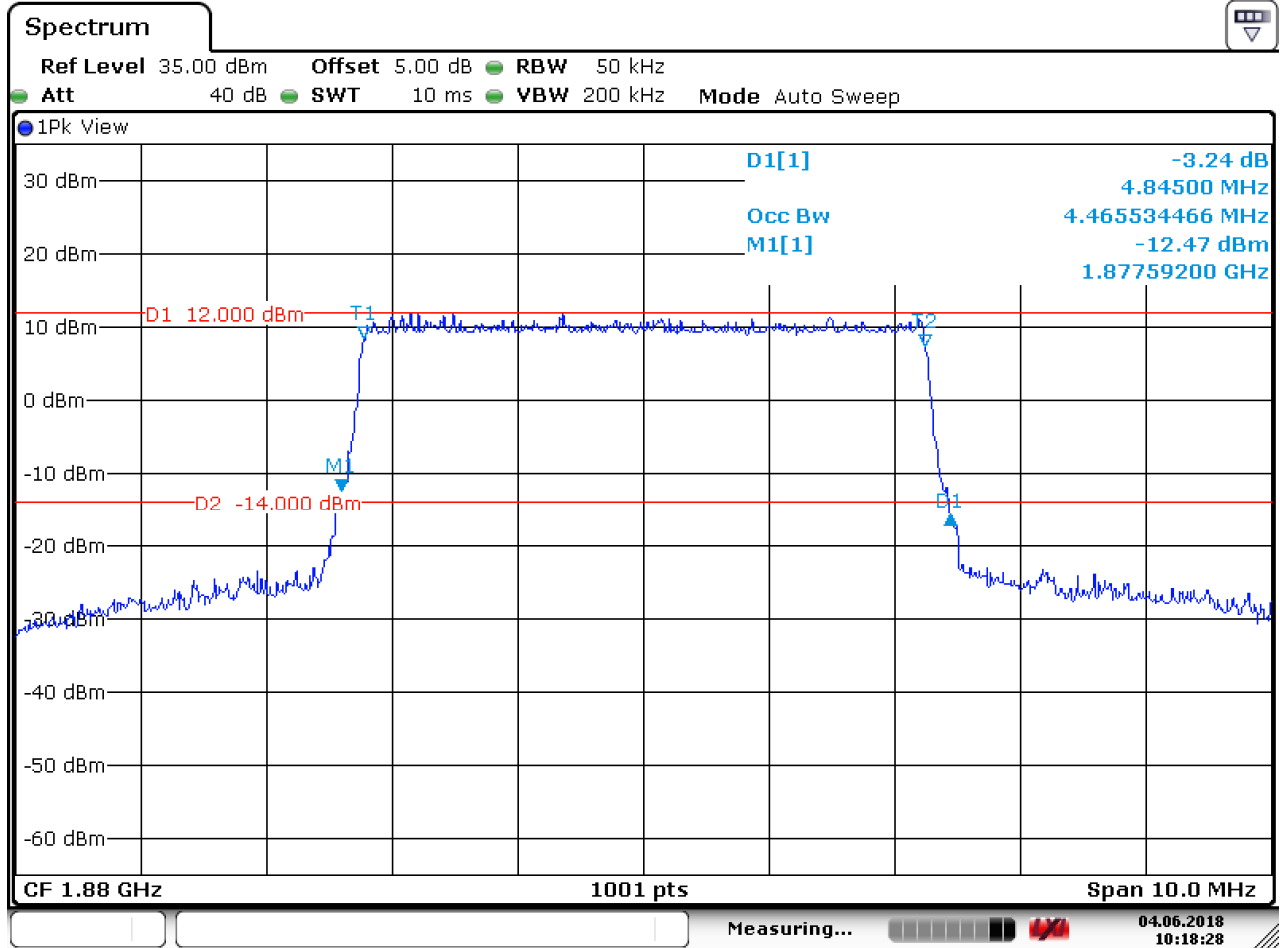
4.1.1.2.1 Test Channel = LCH



Date: 4.JUN.2018 10:17:19



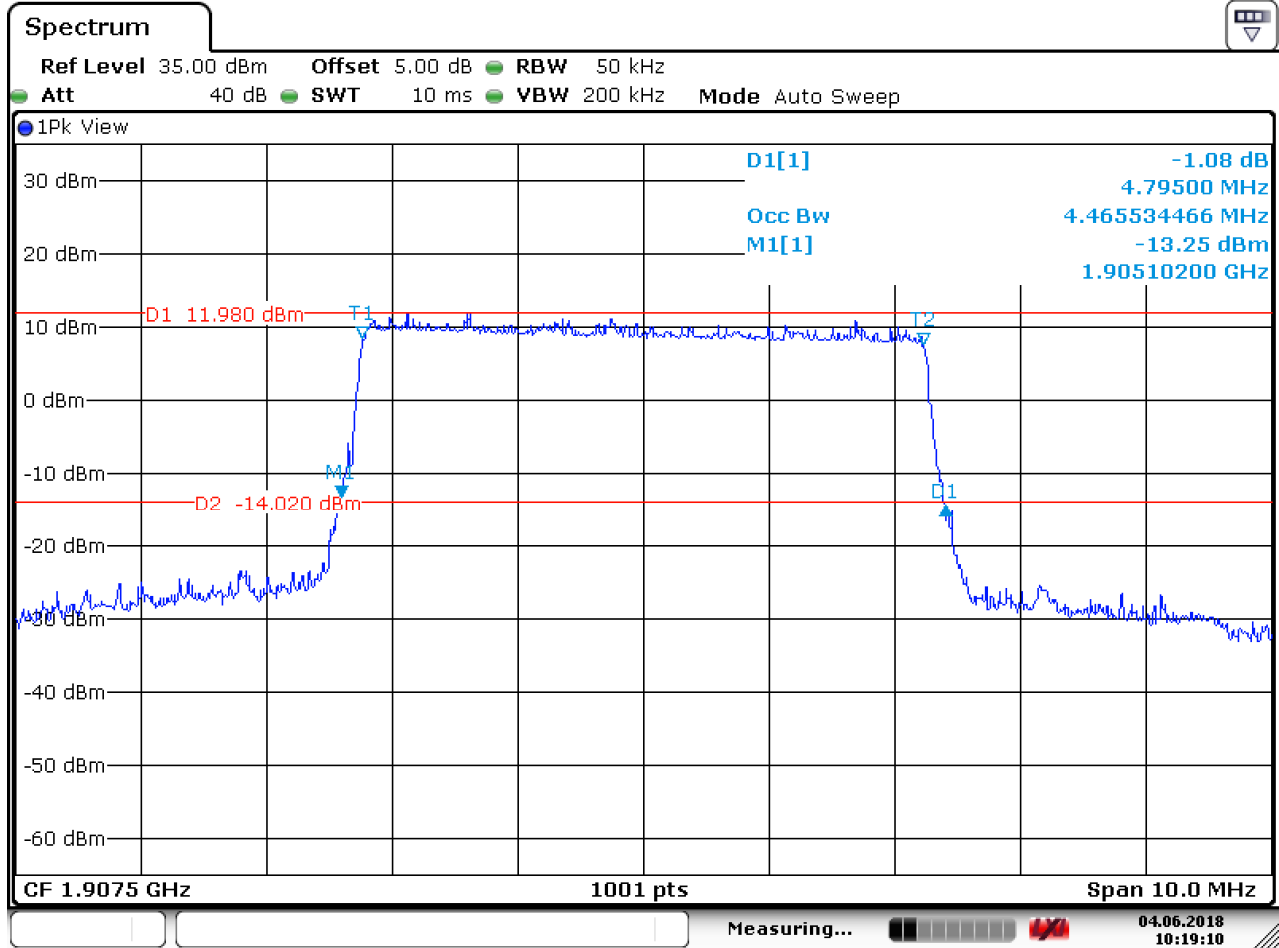
4.1.1.2.2 Test Channel = MCH



Date: 4.JUN.2018 10:18:29

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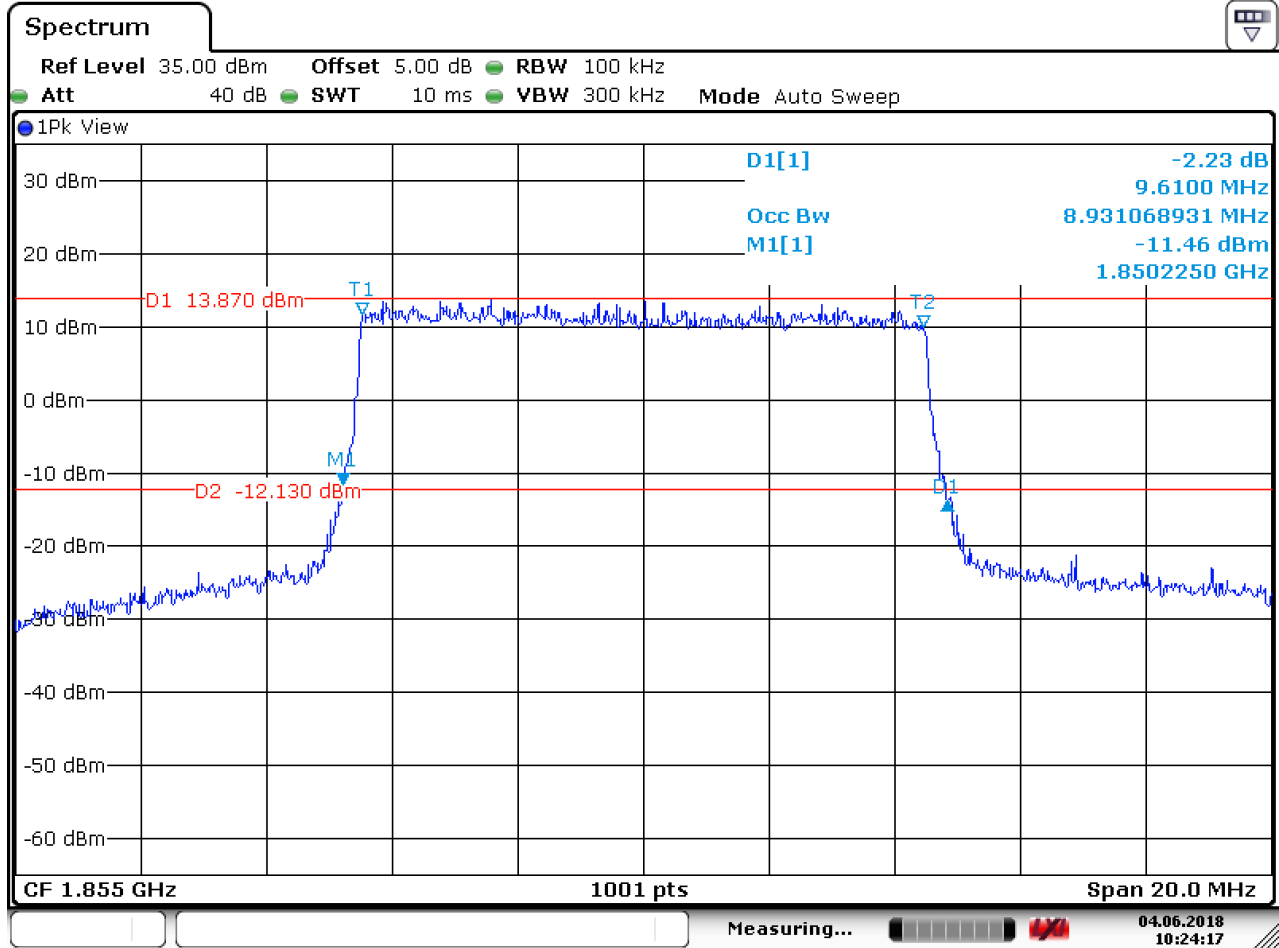
4.1.1.2.3 Test Channel = HCH



Date: 4.JUN.2018 10:19:10

4.1.1.3 Test Mode = LTE/TM1 10MHz

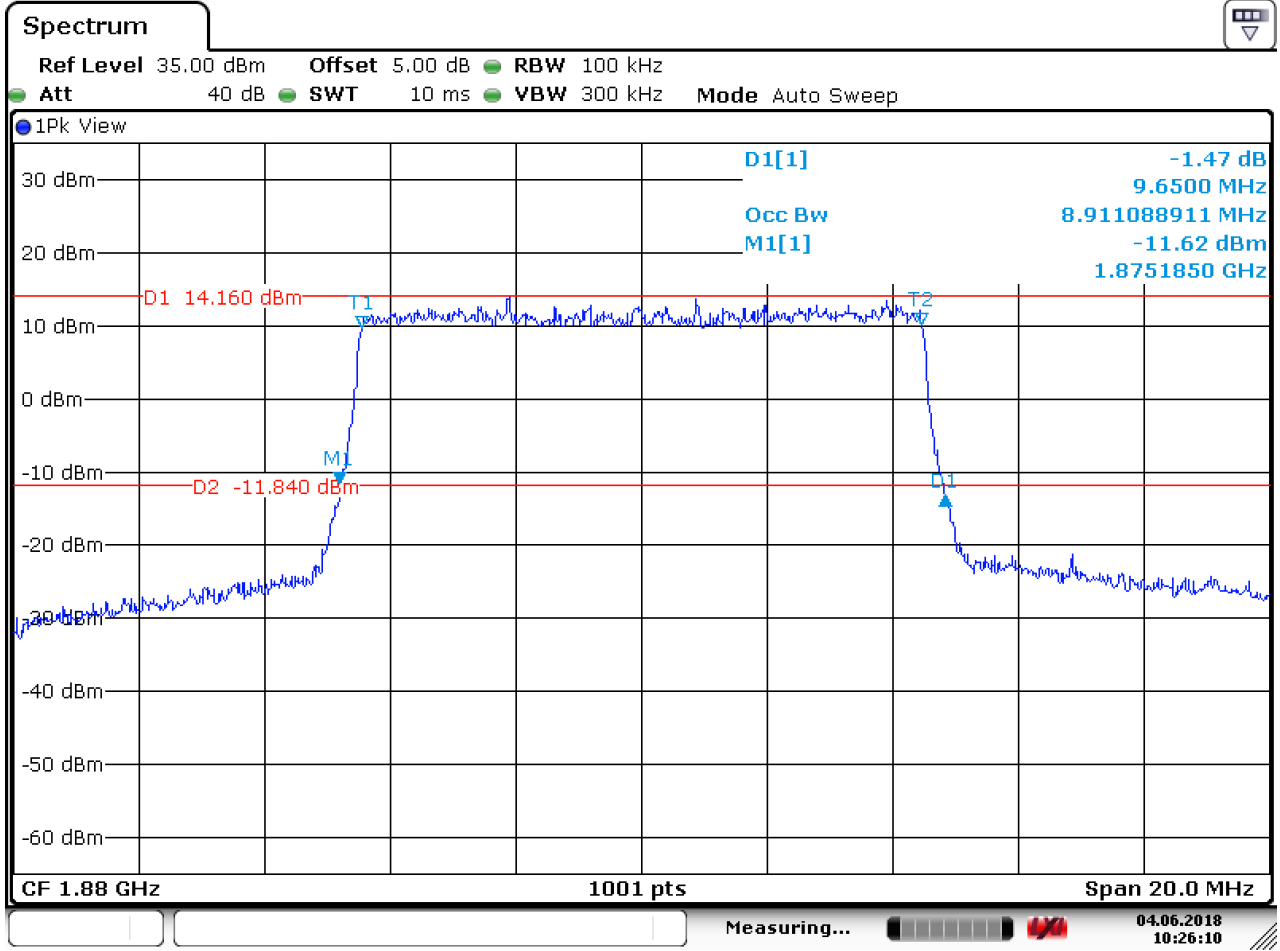
4.1.1.3.1 Test Channel = LCH



Date: 4.JUN.2018 10:24:17



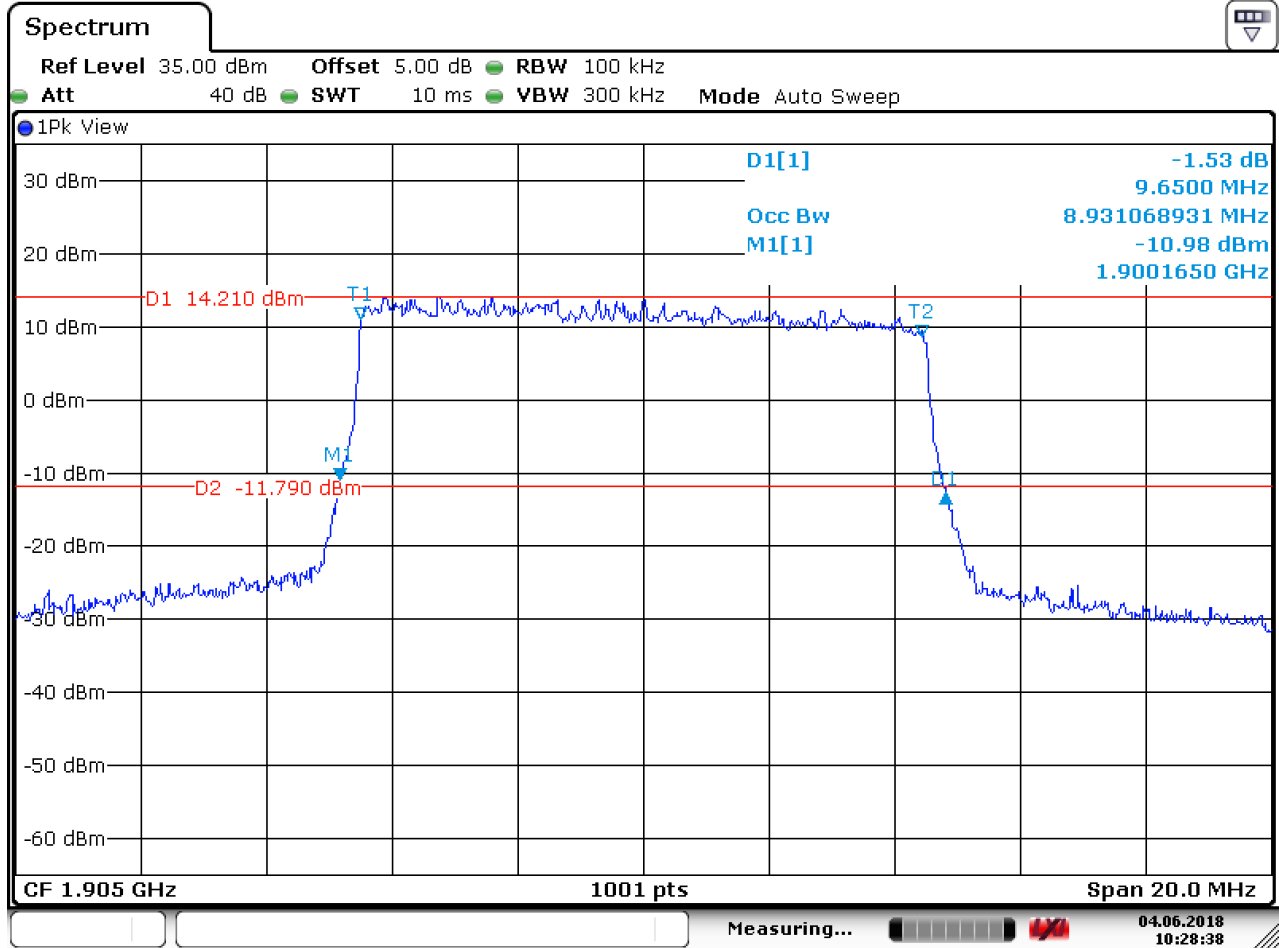
4.1.1.3.2 Test Channel = MCH



Date: 4.JUN.2018 10:26:10

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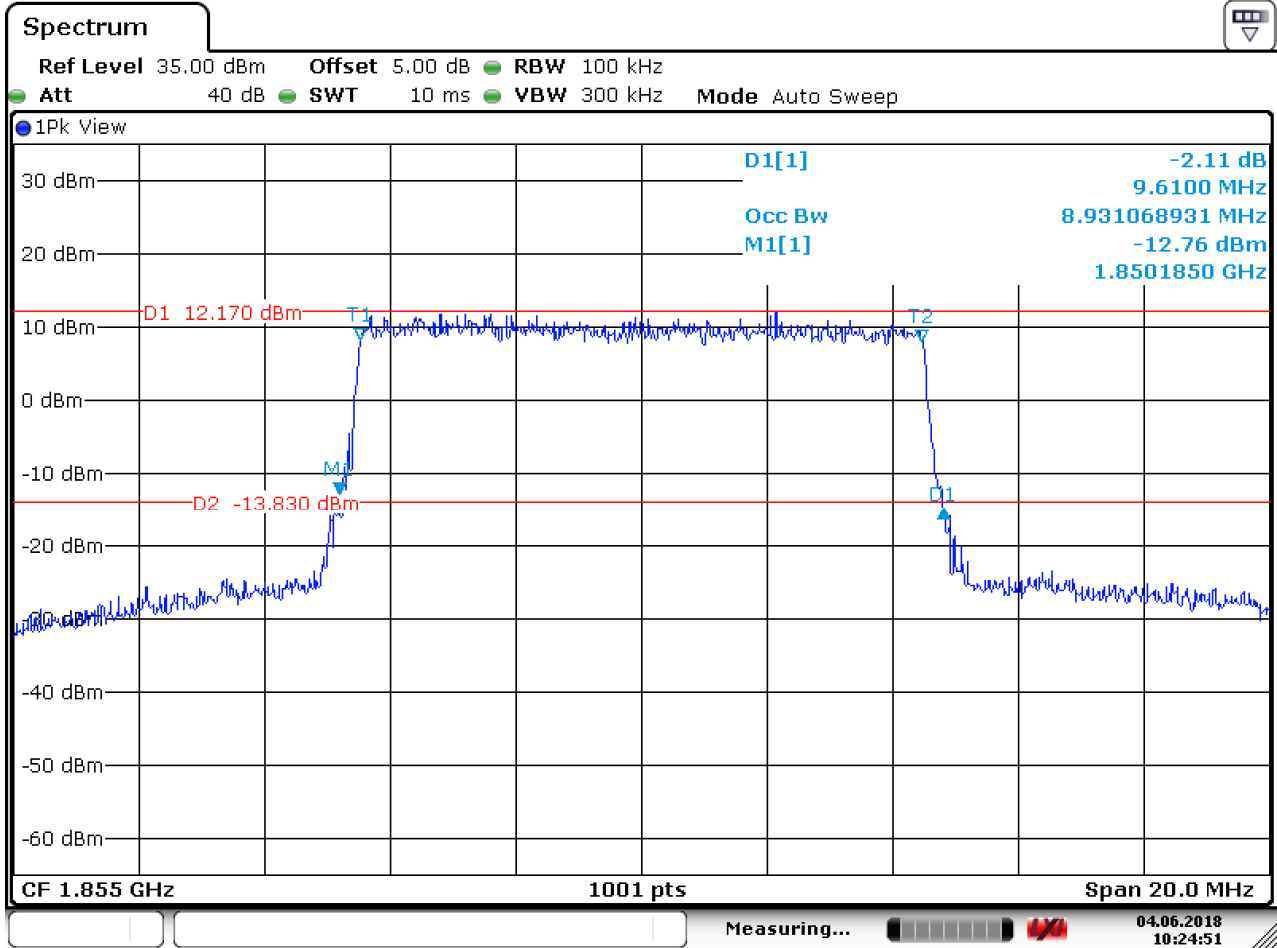
4.1.1.3.3 Test Channel = HCH



Date: 4.JUN.2018 10:28:39

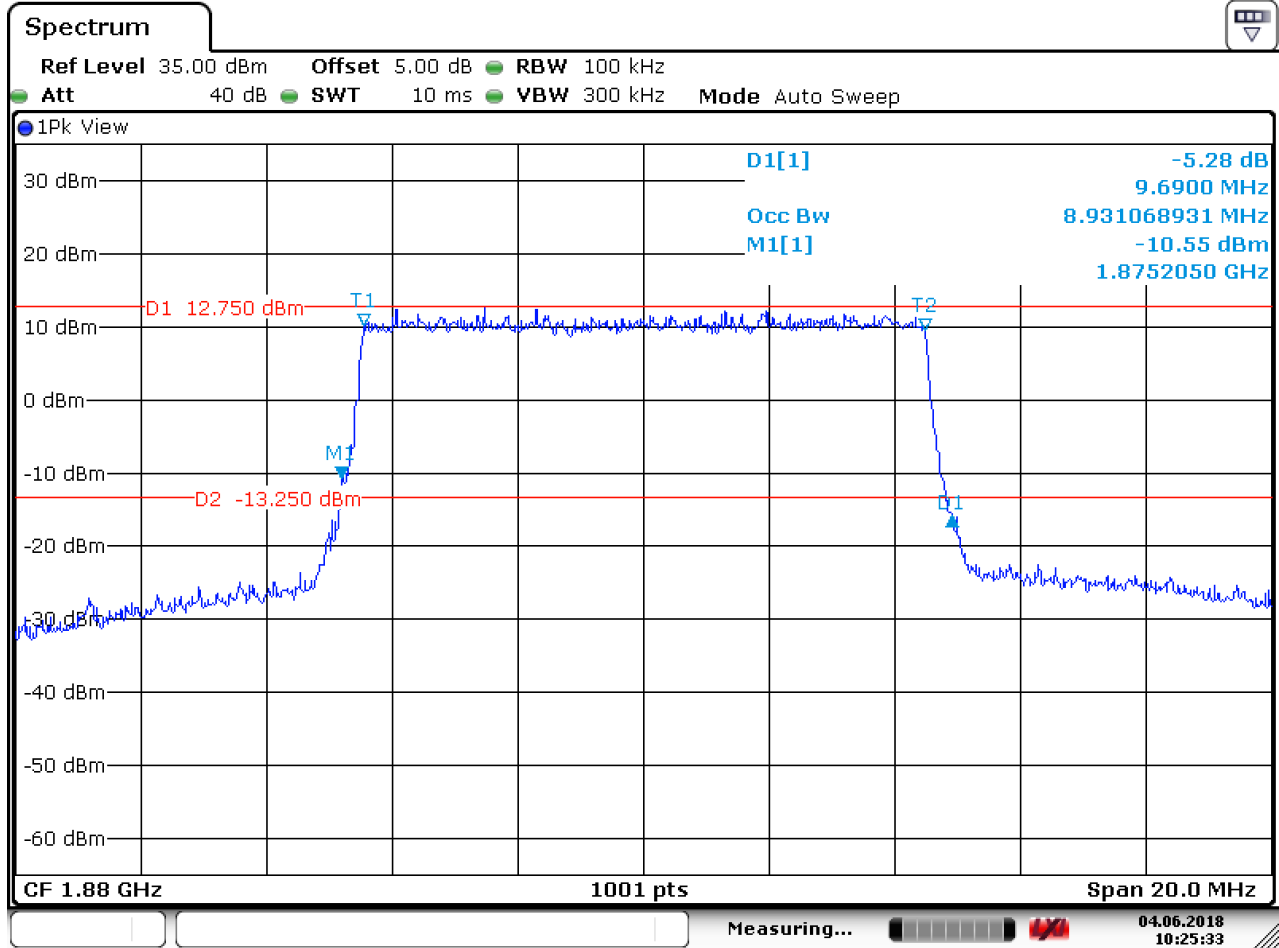
4.1.1.4 Test Mode = LTE/TM2 10MHz

4.1.1.4.1 Test Channel = LCH



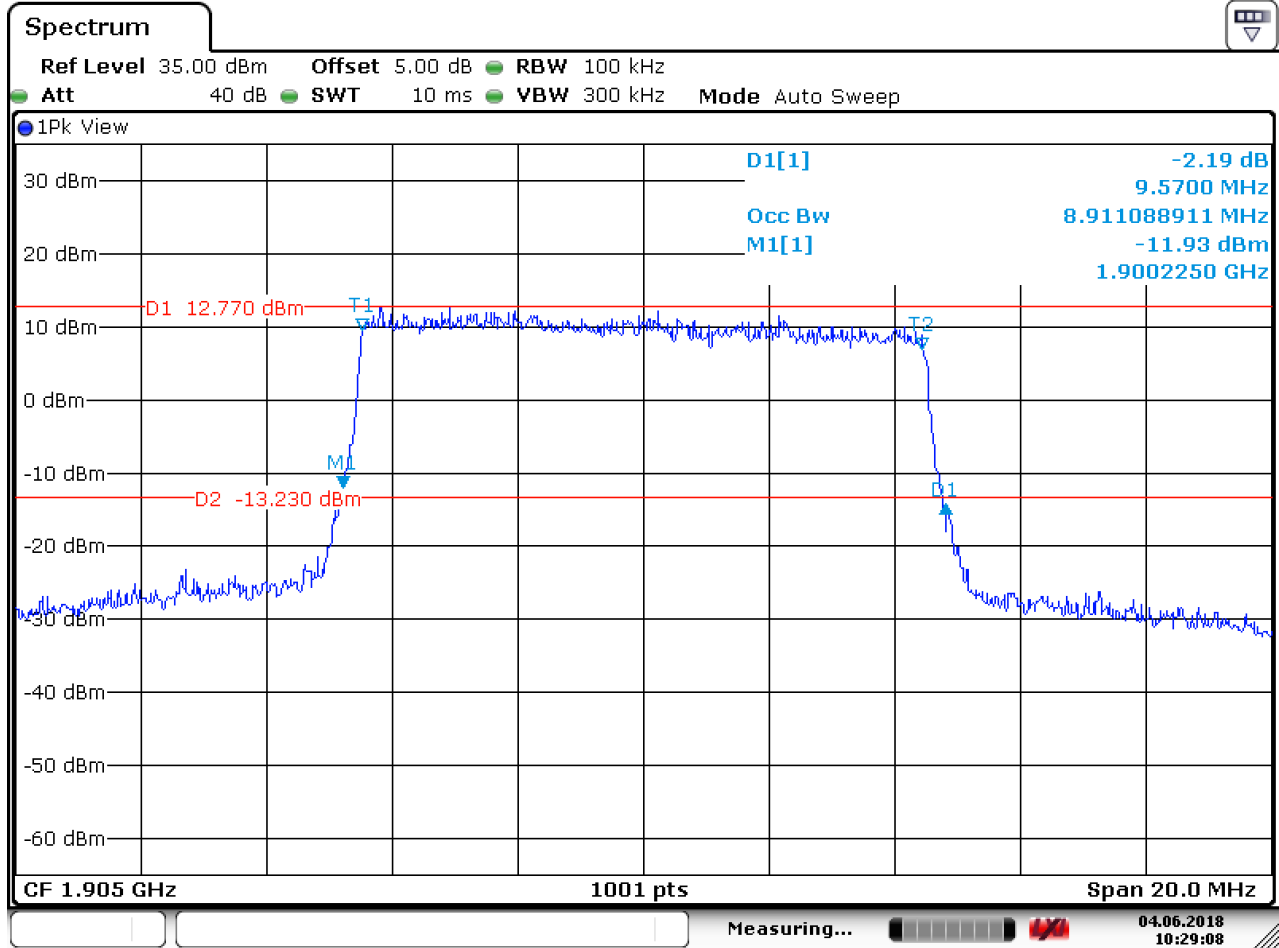
Date: 4.JUN.2018 10:24:51

4.1.1.4.2 Test Channel = MCH



Date: 4.JUN.2018 10:25:34

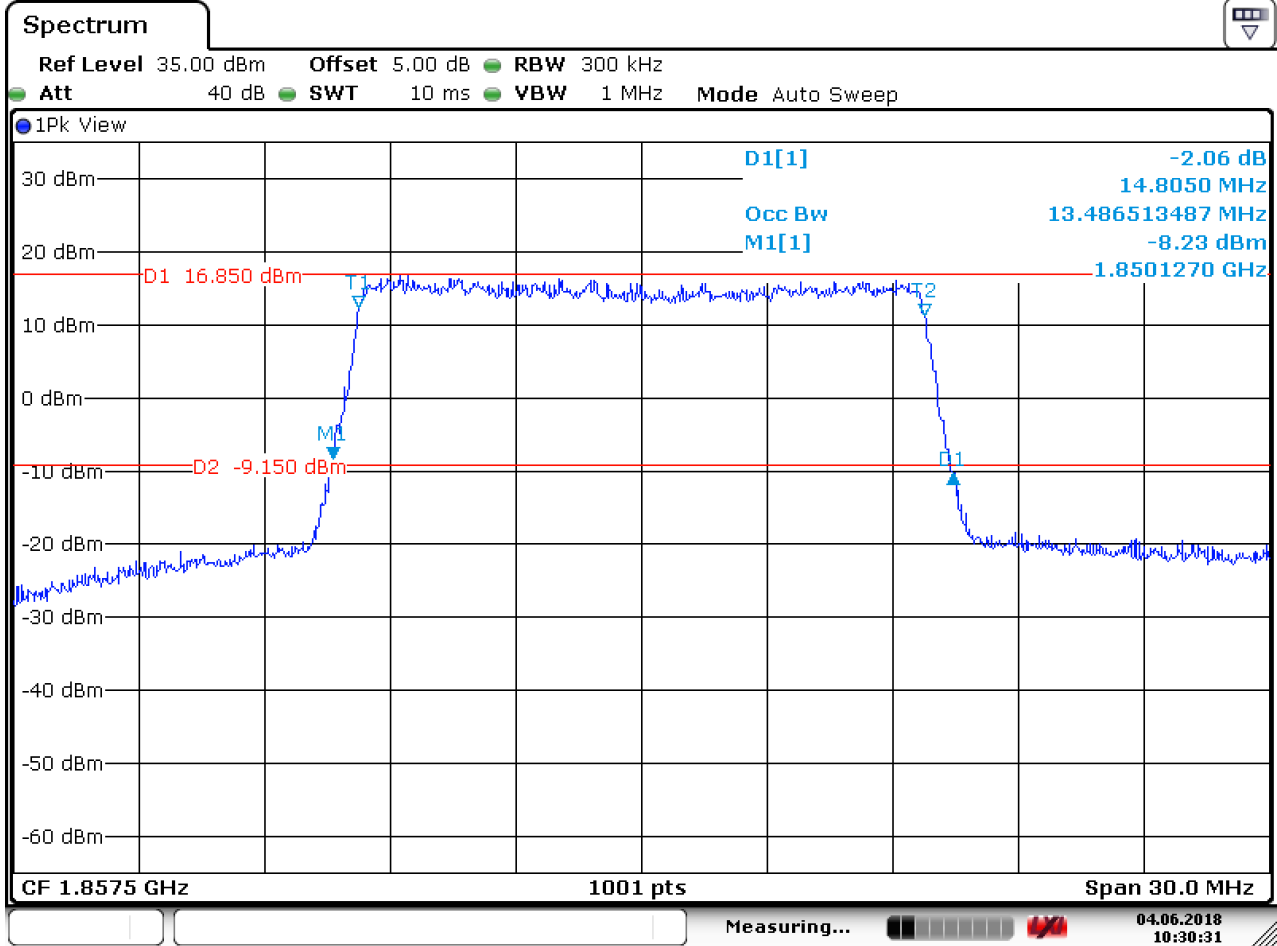
4.1.1.4.3 Test Channel = HCH



Date: 4.JUN.2018 10:29:08

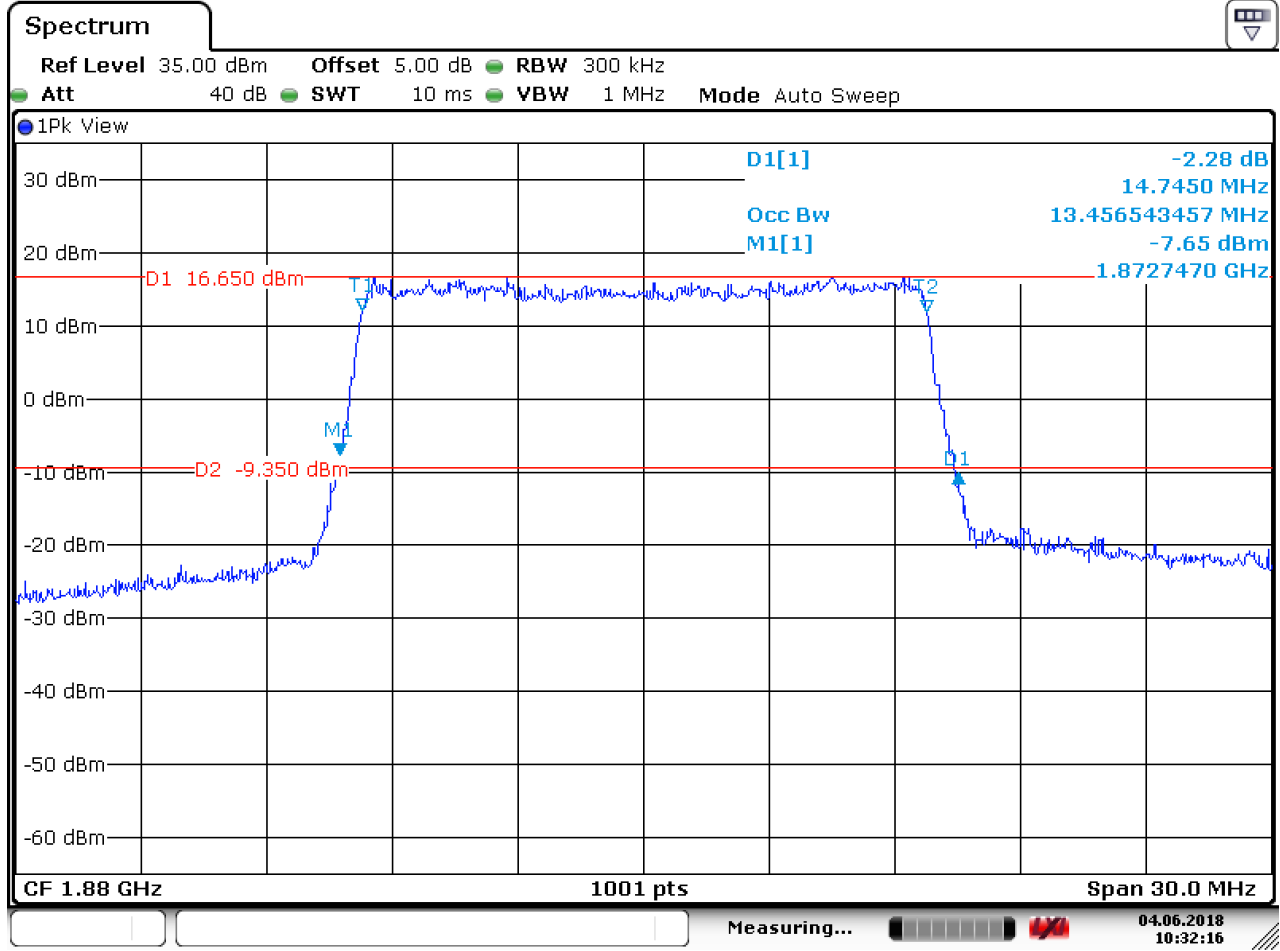
4.1.1.5 Test Mode = LTE/TM1 15MHz

4.1.1.5.1 Test Channel = LCH



Date: 4.JUN.2018 10:30:31

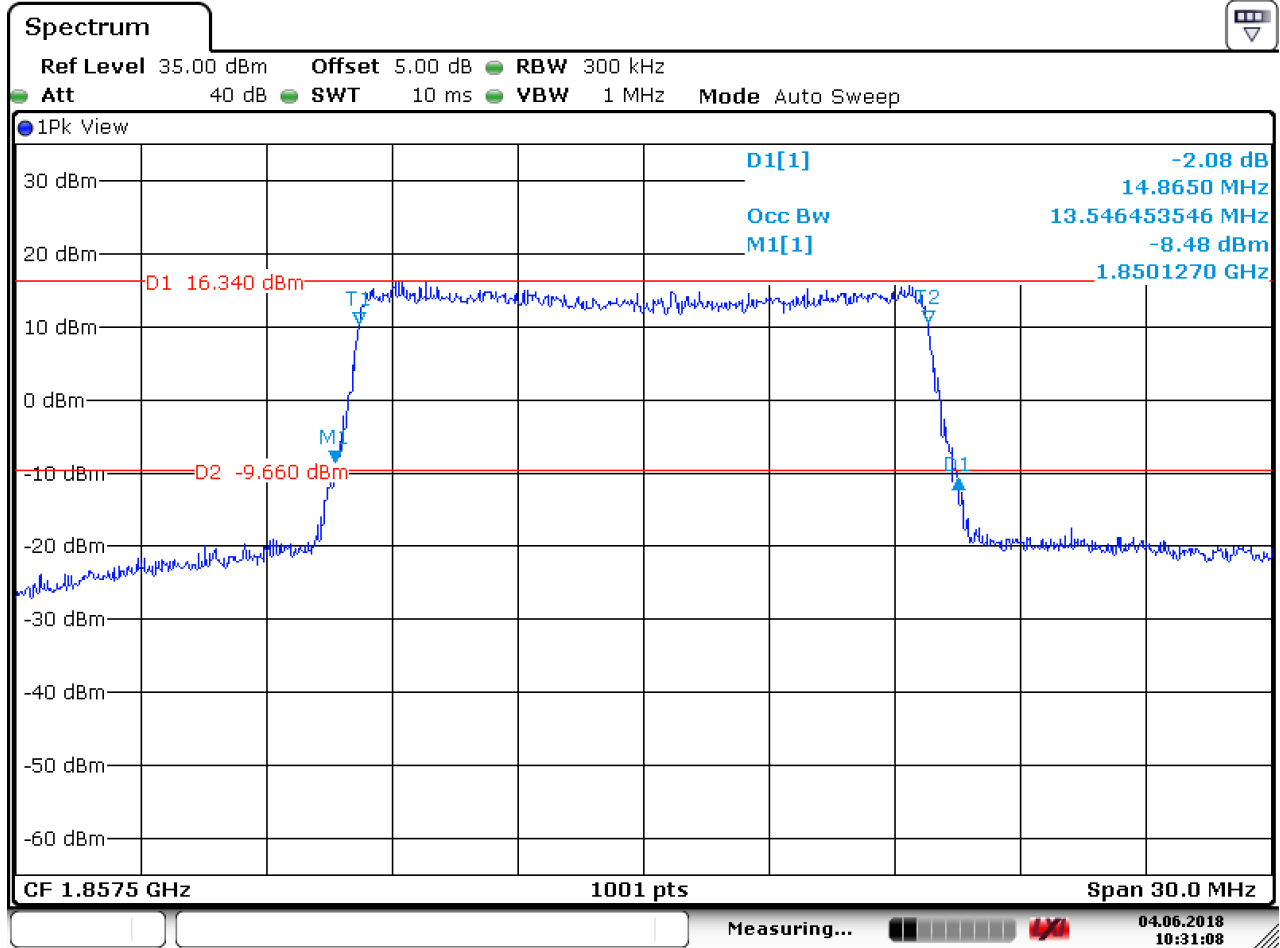
4.1.1.5.2 Test Channel = MCH



Date: 4.JUN.2018 10:32:16

4.1.1.6 Test Mode = LTE/TM2 15MHz

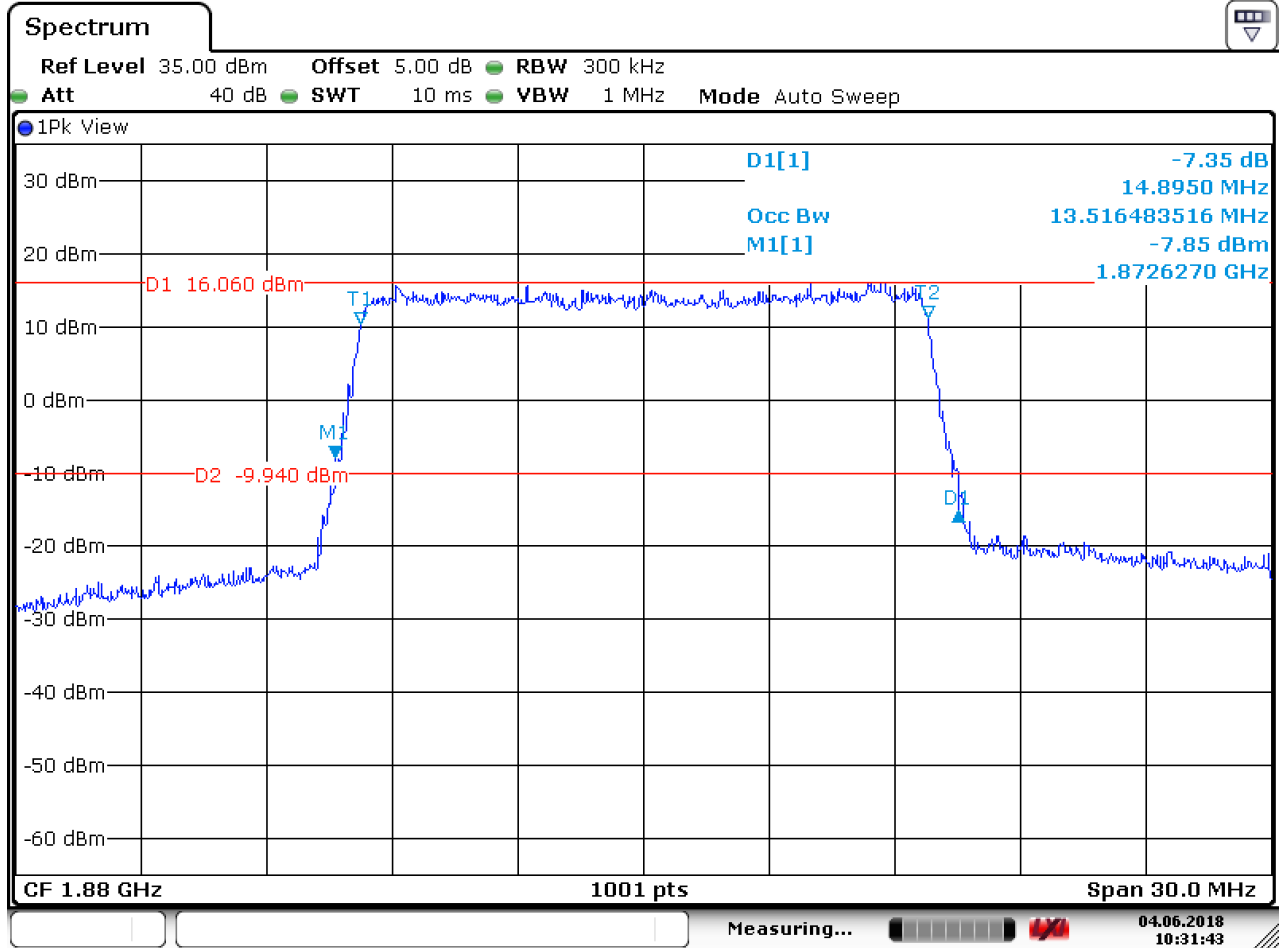
4.1.1.6.1 Test Channel = LCH



Date: 4.JUN.2018 10:31:08

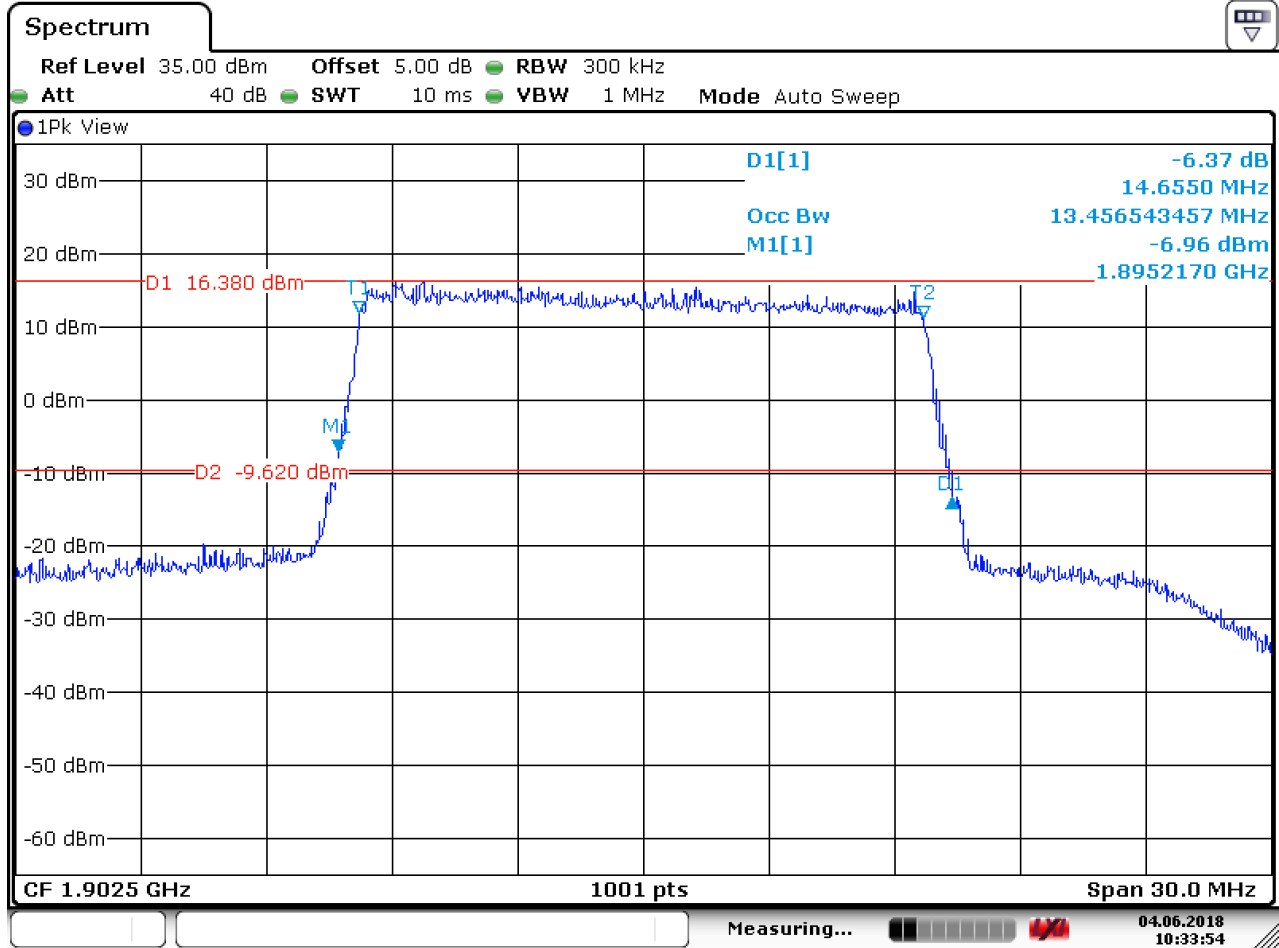


4.1.1.6.2 Test Channel = MCH



Date: 4.JUN.2018 10:31:44

4.1.1.6.3 Test Channel = HCH

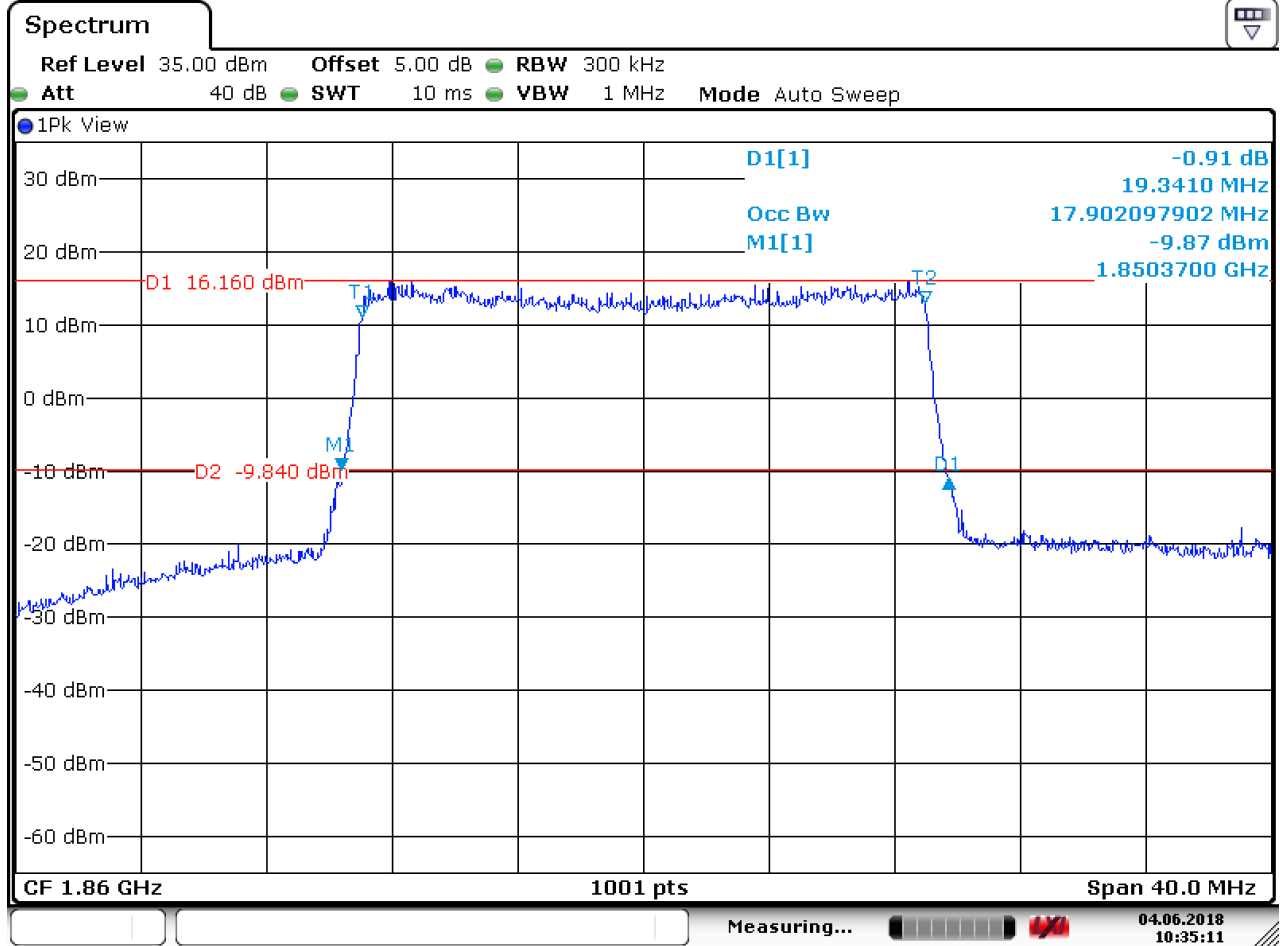


Date: 4.JUN.2018 10:33:54



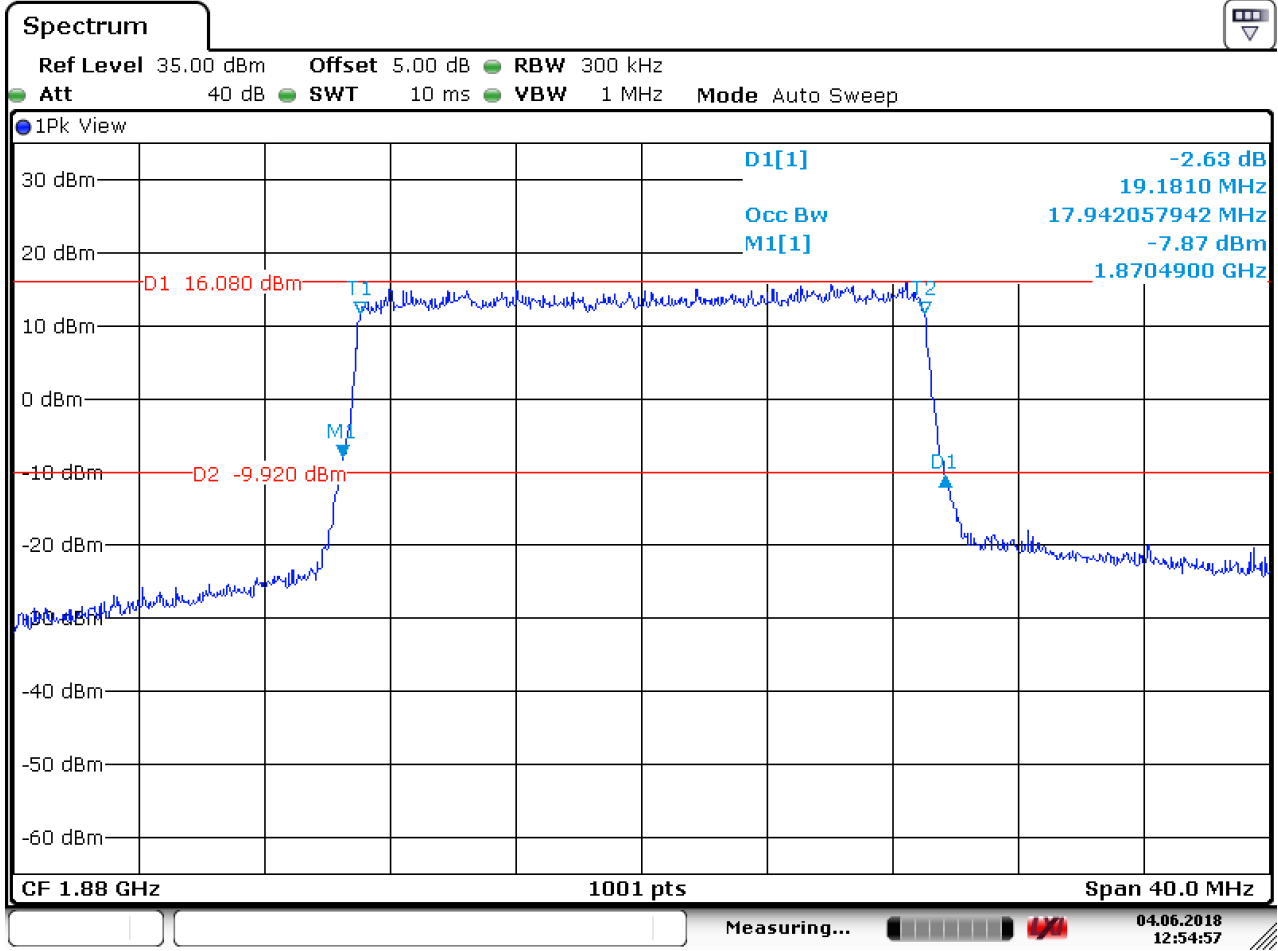
4.1.1.7 Test Mode = LTE/TM1 20MHz

4.1.1.7.1 Test Channel = LCH



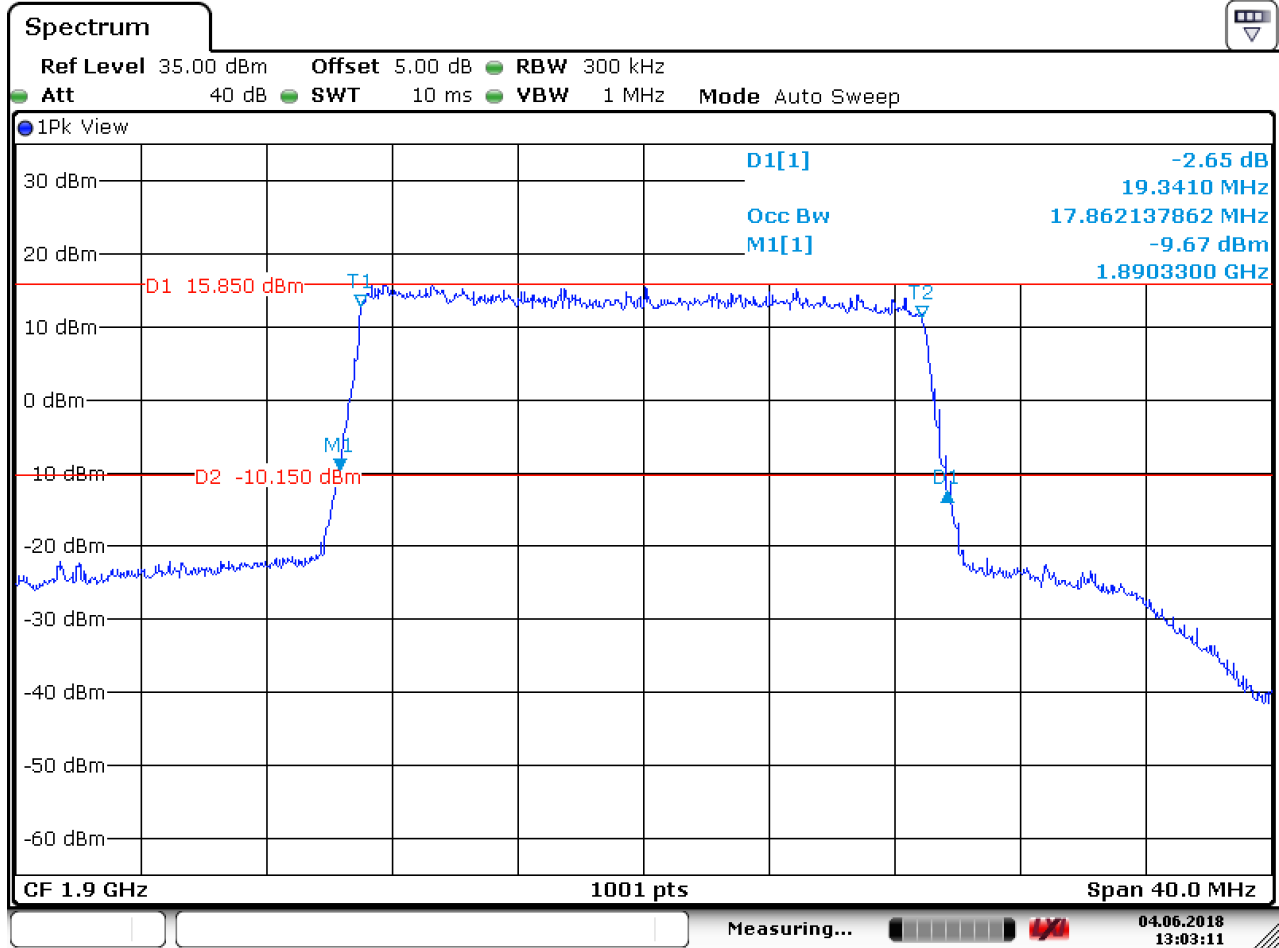
Date: 4.JUN.2018 10:35:12

4.1.1.7.2 Test Channel = MCH



Date: 4.JUN.2018 12:54:57

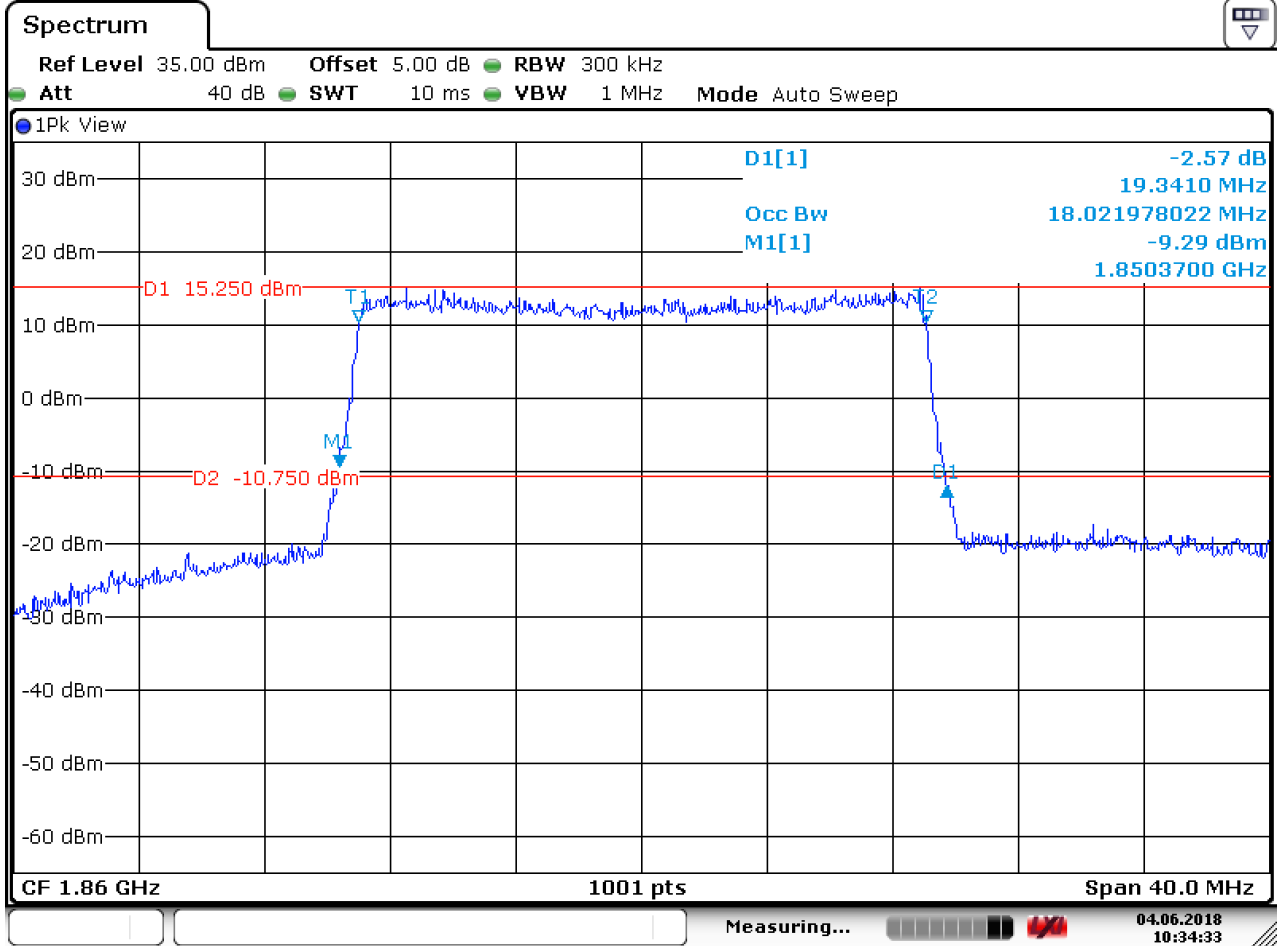
4.1.1.7.3 Test Channel = HCH



Date: 4.JUN.2018 13:03:12

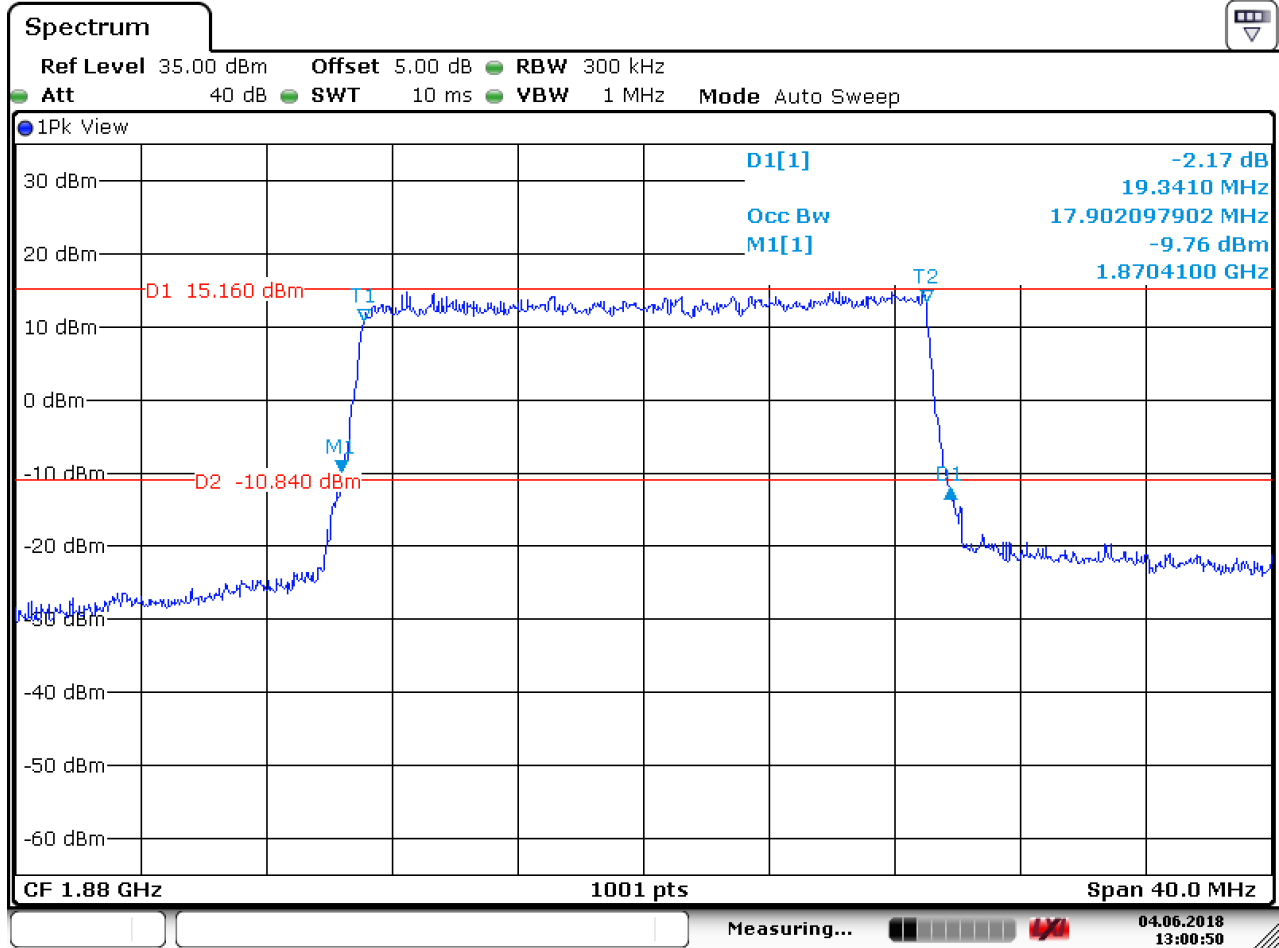
4.1.1.8 Test Mode = LTE/TM2 20MHz

4.1.1.8.1 Test Channel = LCH



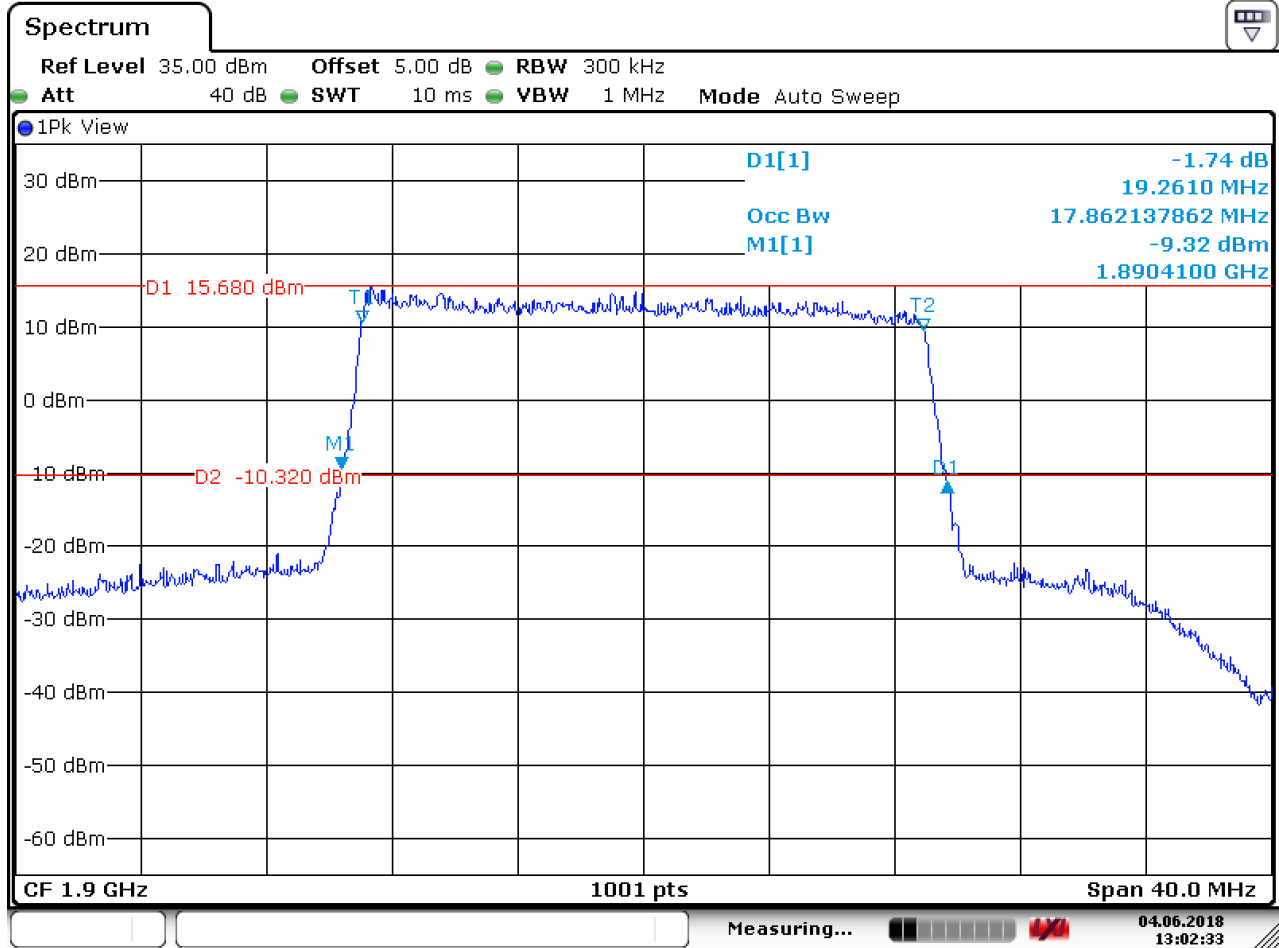
Date: 4.JUN.2018 10:34:33

4.1.1.8.2 Test Channel = MCH



Date: 4.JUN.2018 13:00:51

4.1.1.8.3 Test Channel = HCH



Date: 4.JUN.2018 13:02:33

5 Band Edges Compliance

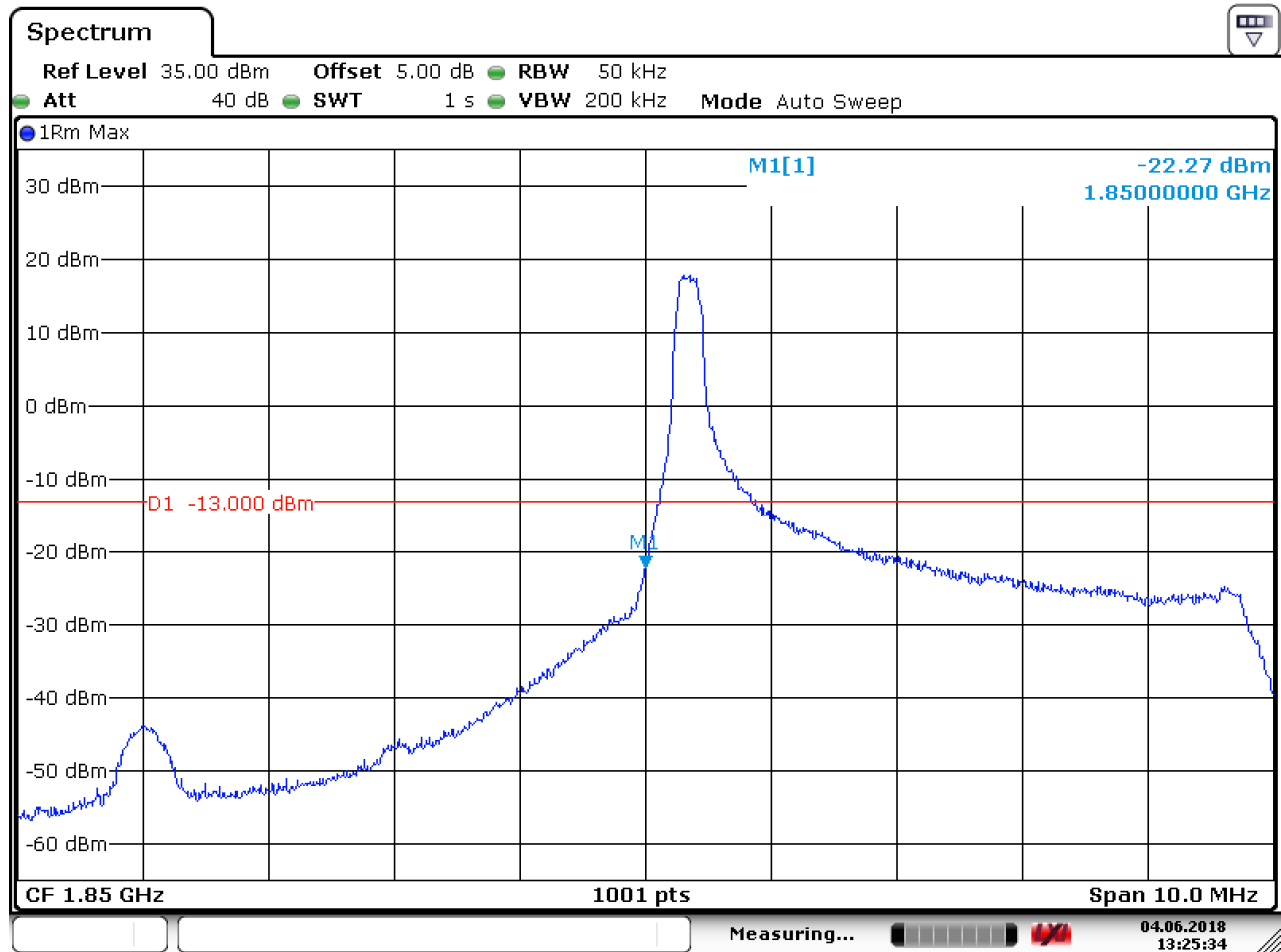
5.1 For LTE

5.1.1 Test Band = LTE band2

5.1.1.1 Test Mode = LTE/TM1 5MHz

5.1.1.1.1 Test Channel = LCH

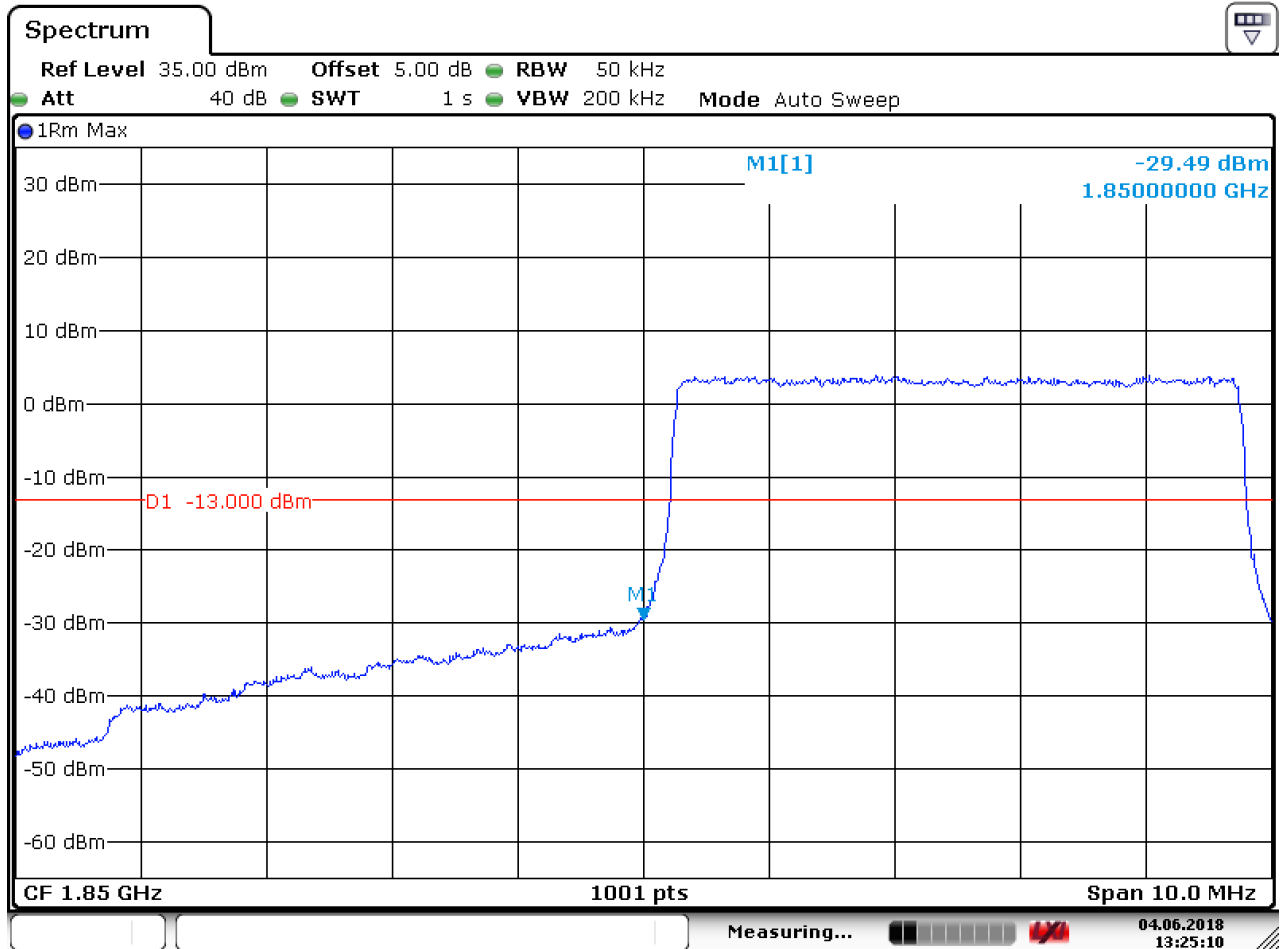
5.1.1.1.1.1 Test RB=1RB



Date: 4.JUN.2018 13:25:34



5.1.1.1.2 Test RB=25RB

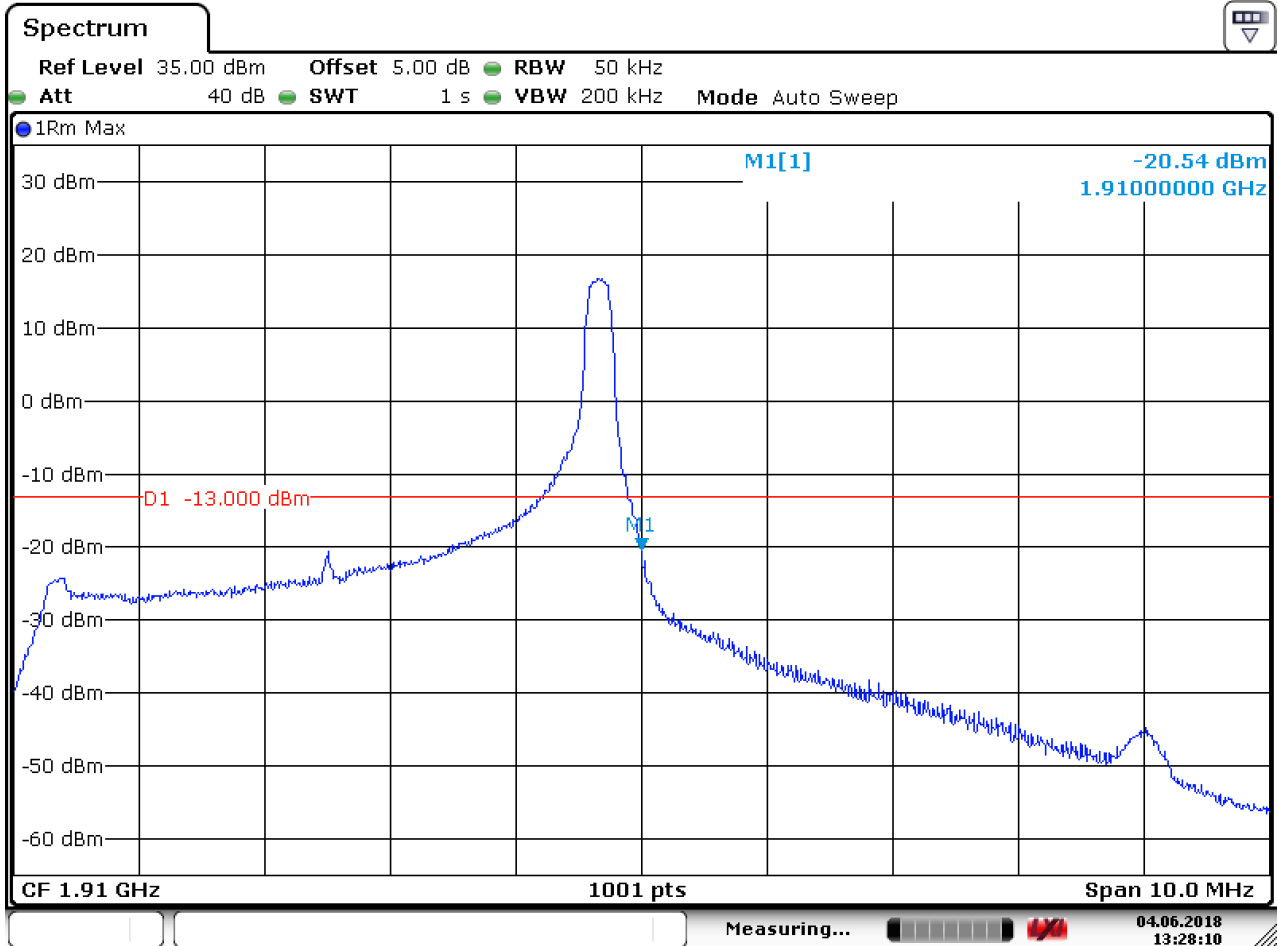


Date: 4.JUN.2018 13:25:10

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5.1.1.1.2 Test Channel = HCH

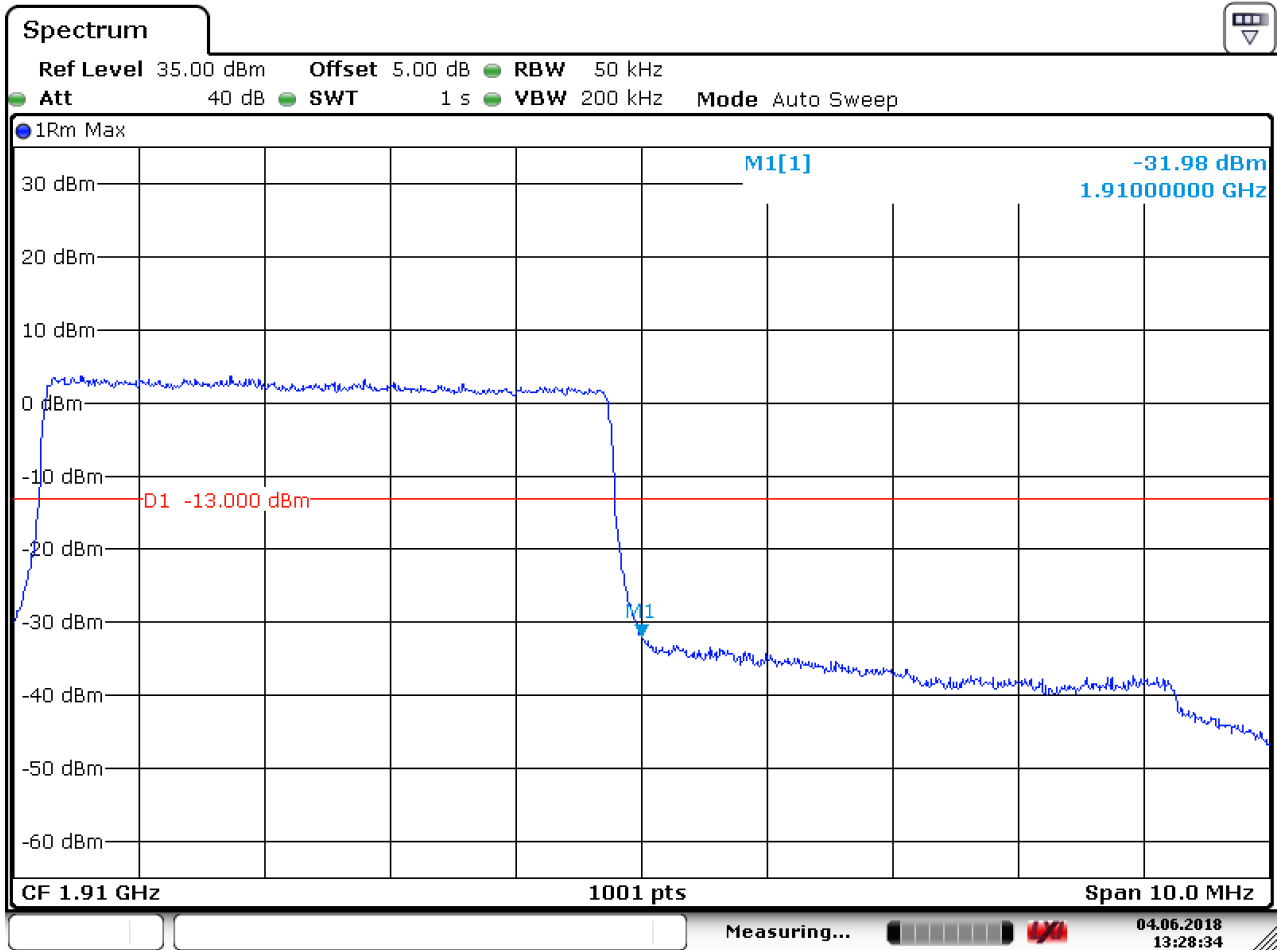
5.1.1.1.2.1 Test RB=1RB



Date: 4.JUN.2018 13:28:10



5.1.1.1.2.2 Test RB=25RB



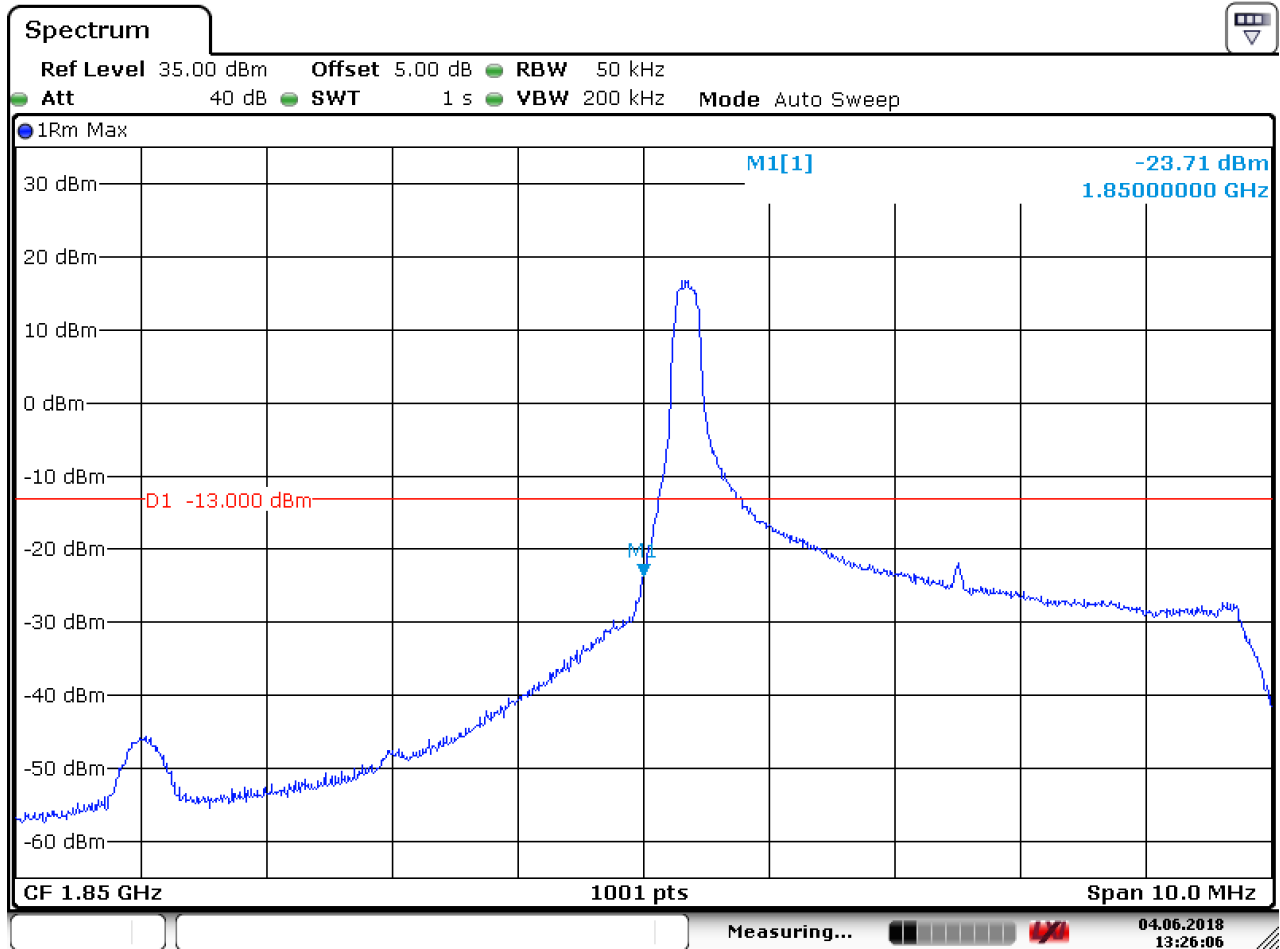
Date: 4.JUN.2018 13:28:35



5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

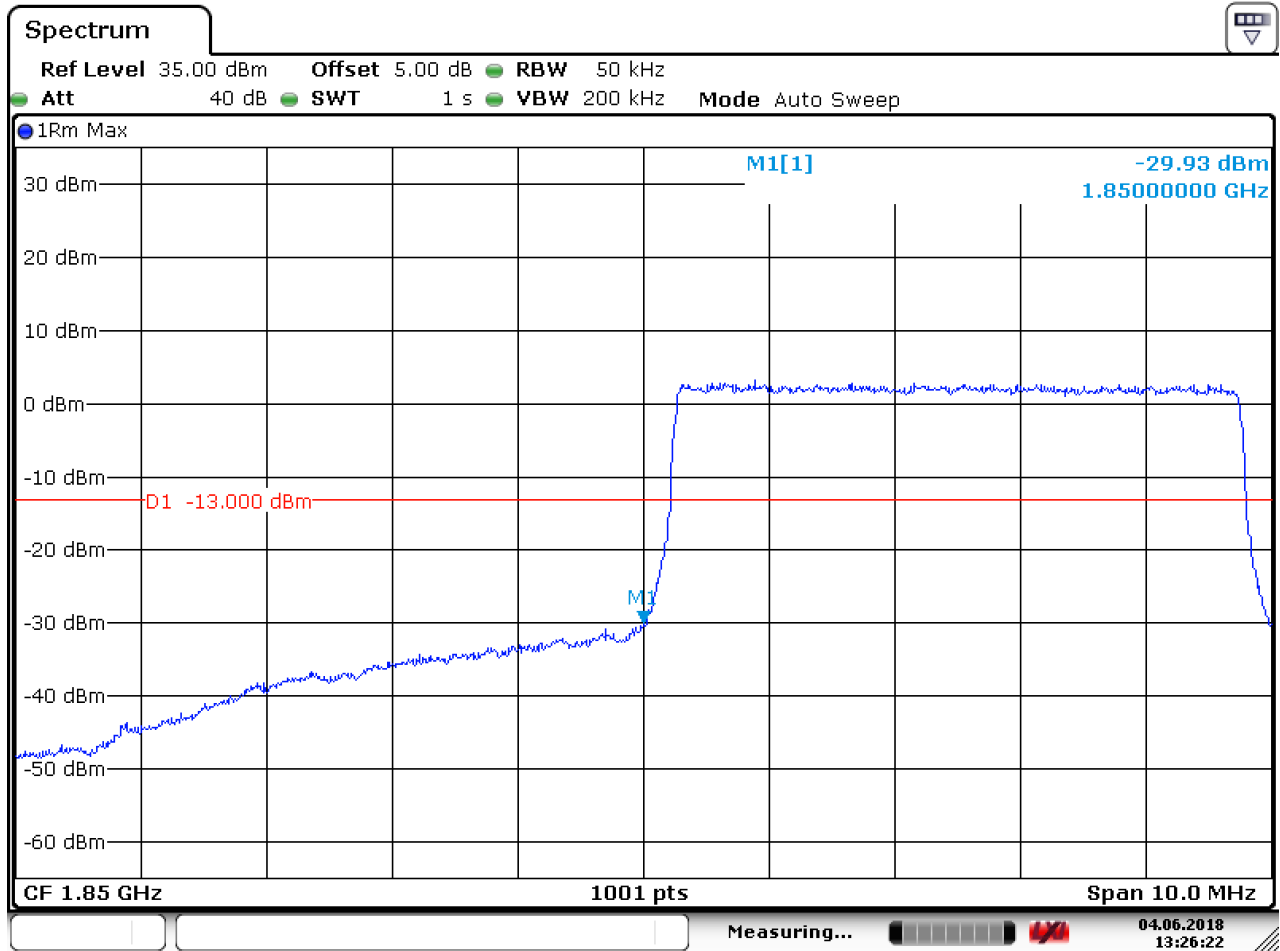
5.1.1.2.1.1 Test RB=1RB



Date: 4.JUN.2018 13:26:07



5.1.1.2.1.2 Test RB=25RB

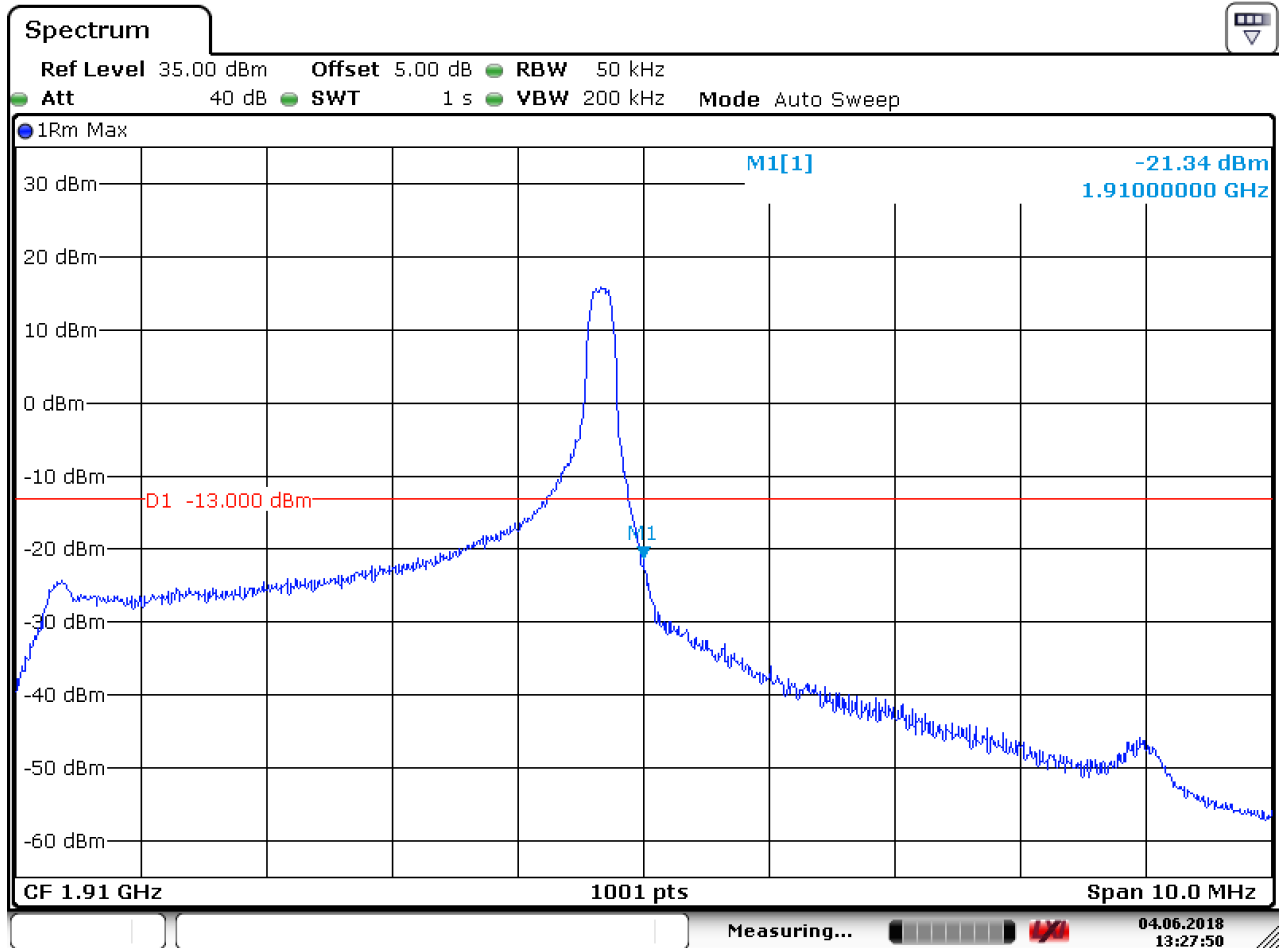


Date: 4.JUN.2018 13:26:23



5.1.1.2.2 Test Channel = HCH

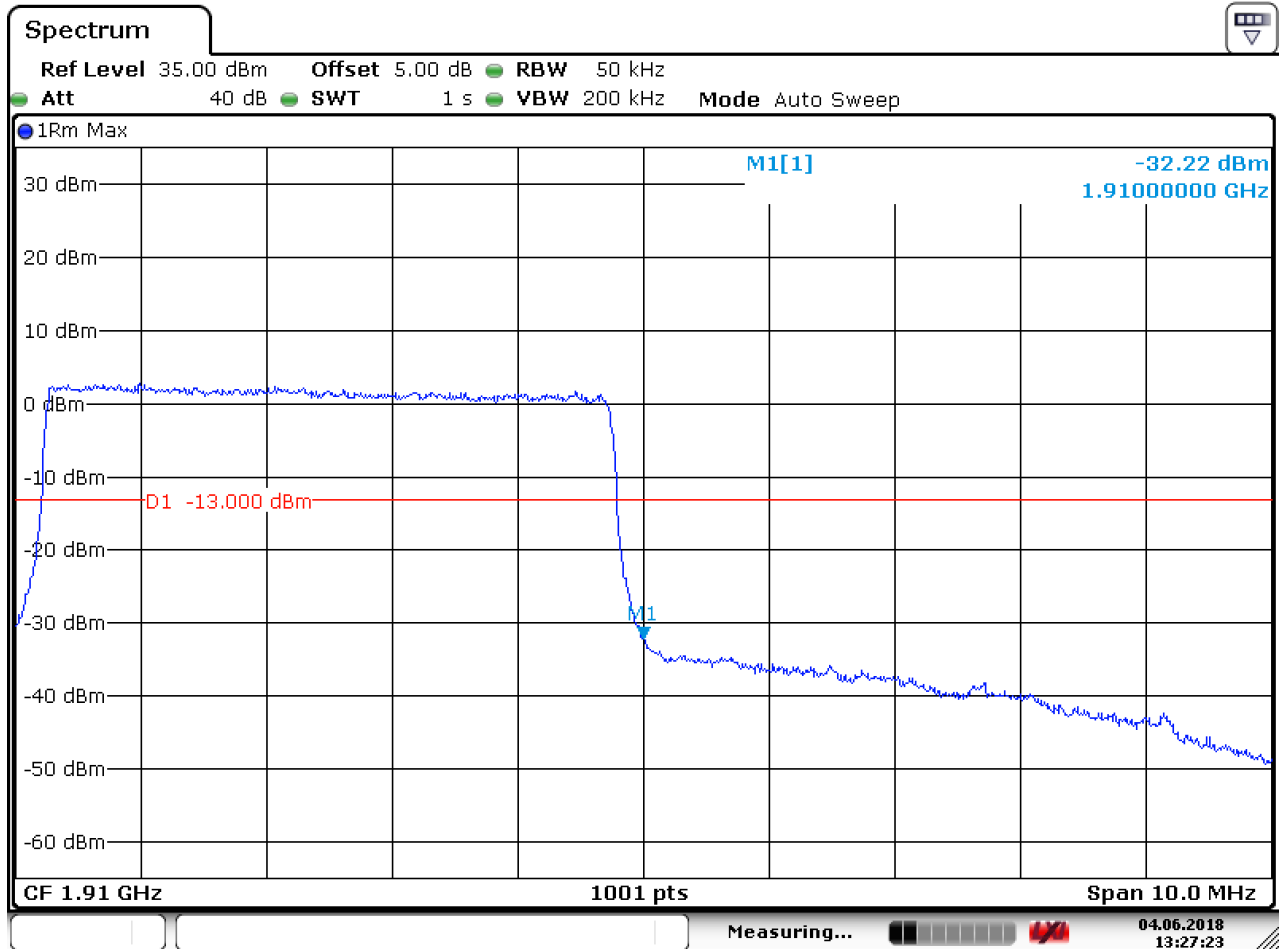
5.1.1.2.2.1 Test RB=1RB



Date: 4.JUN.2018 13:27:50



5.1.1.2.2.2 Test RB=25RB

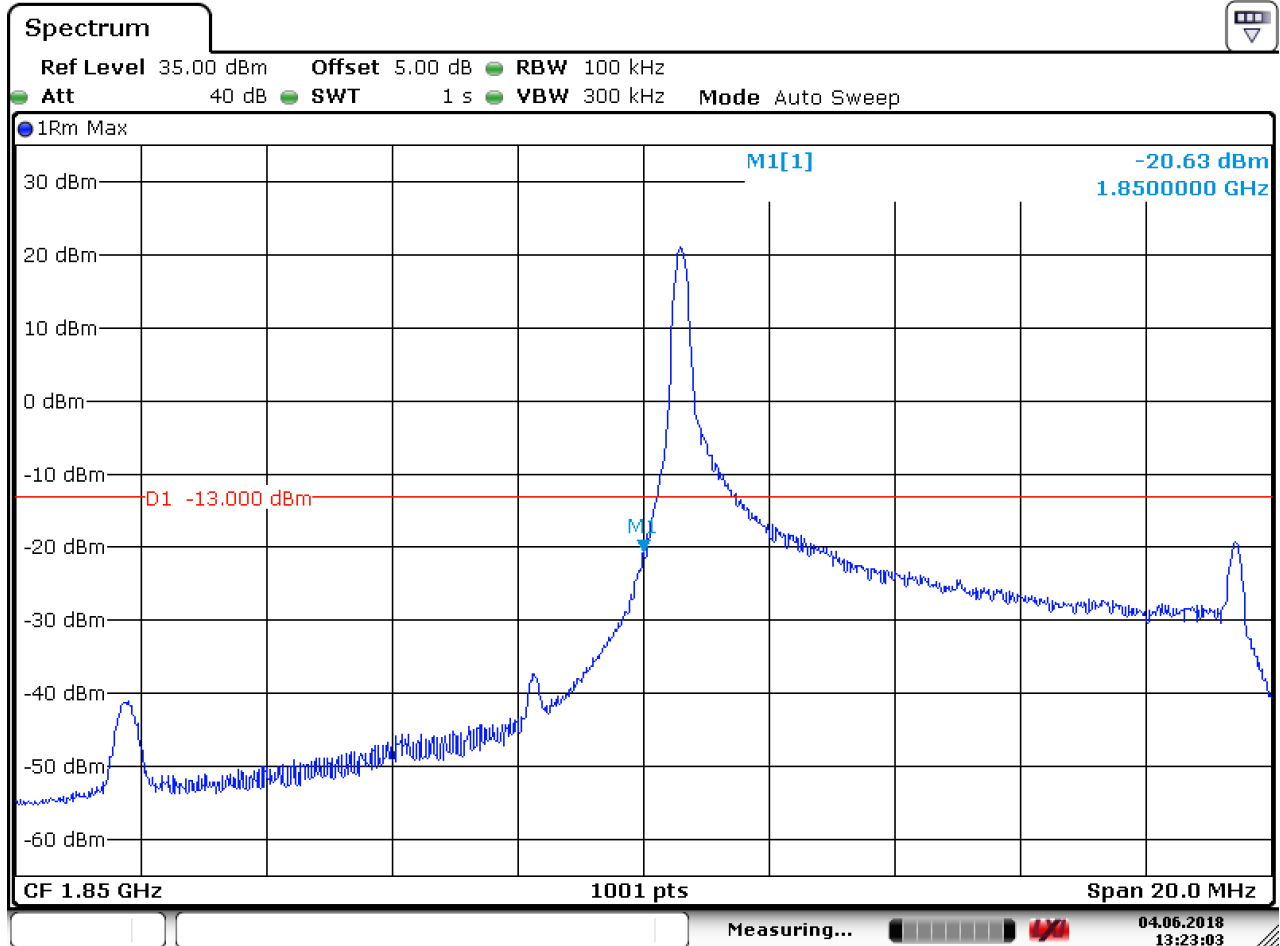


Date: 4.JUN.2018 13:27:23

5.1.1.3 Test Mode = LTE/TM1 10MHz

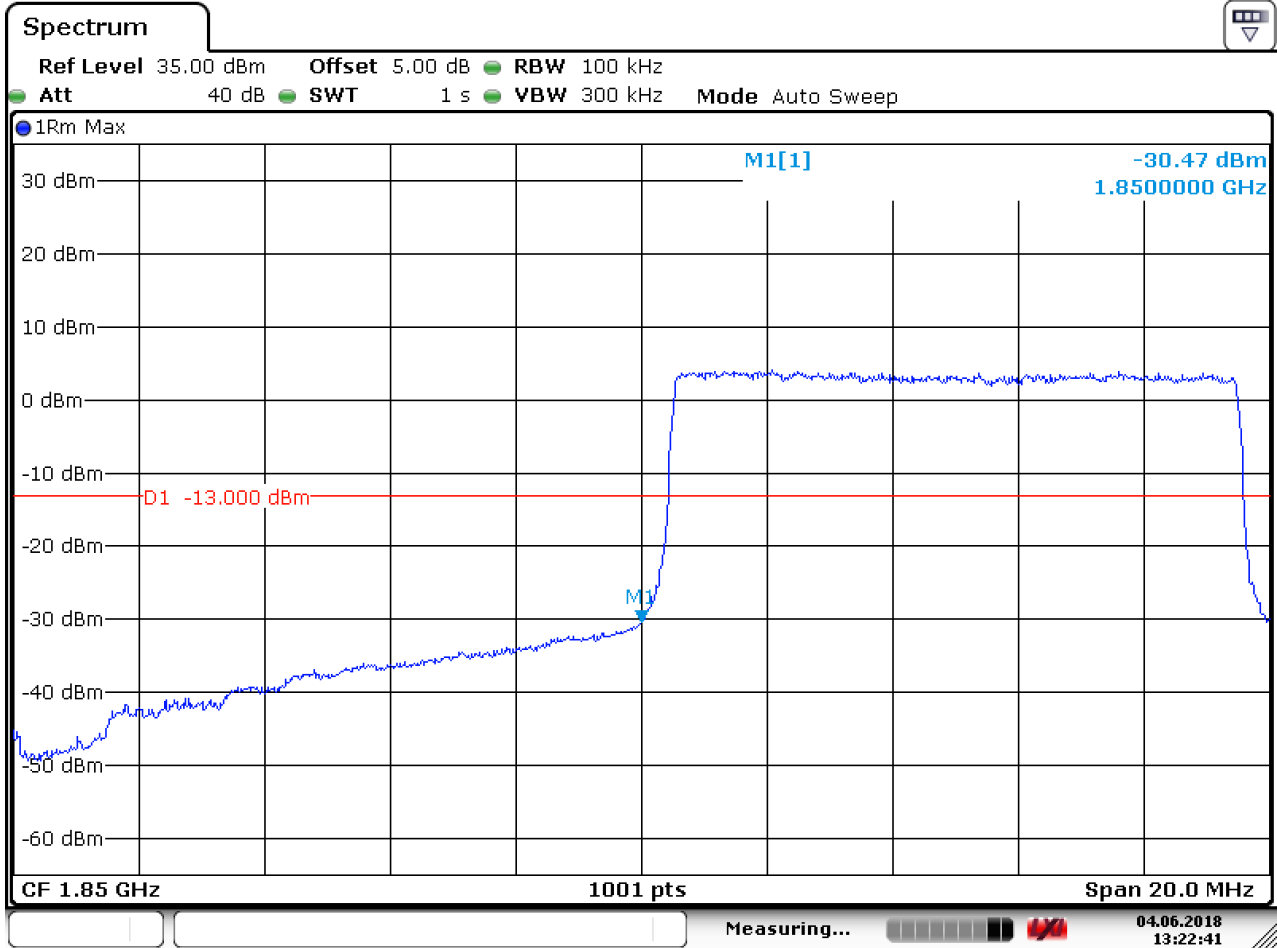
5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



Date: 4.JUN.2018 13:23:03

5.1.1.3.1.2 Test RB=50RB

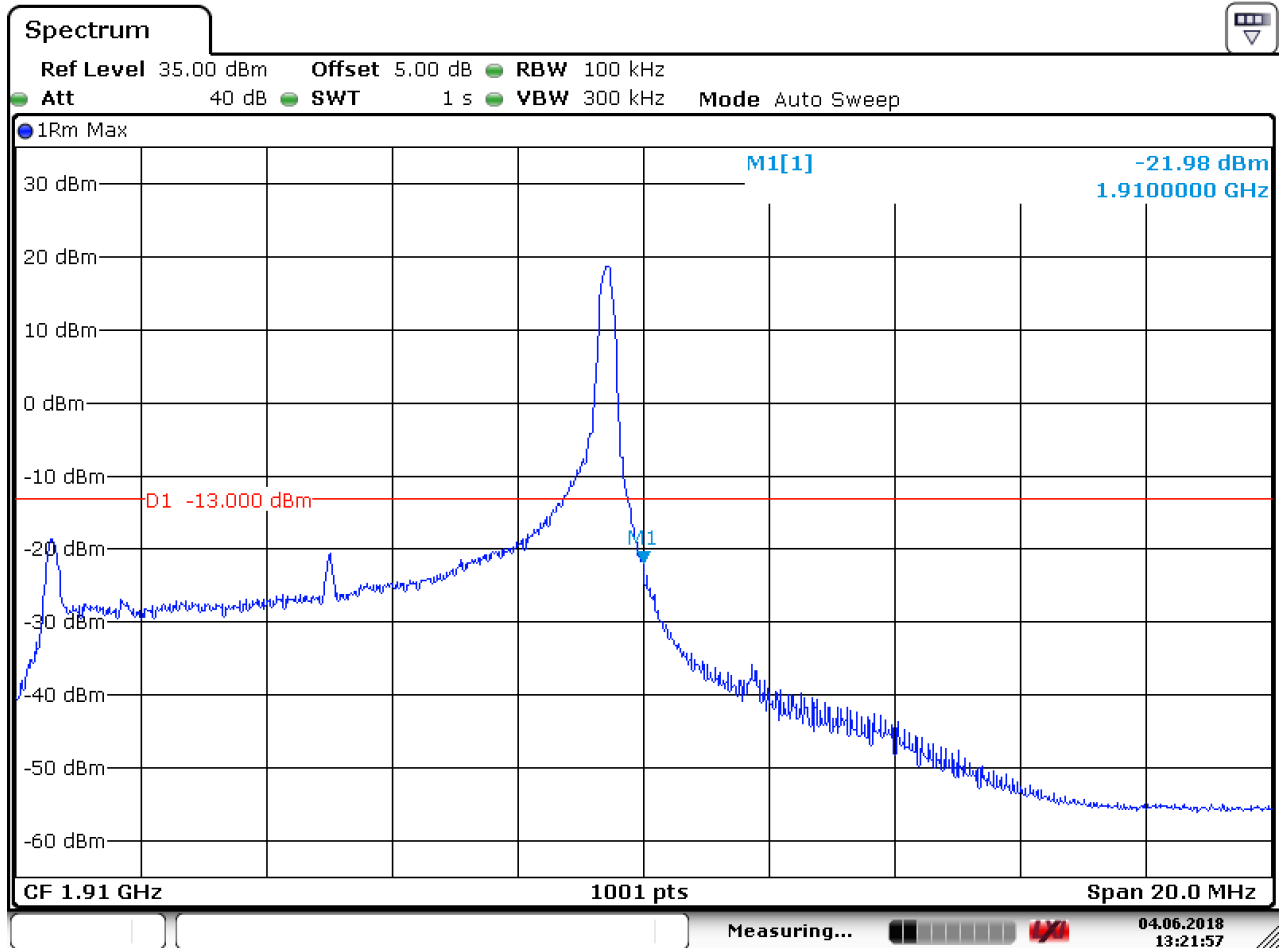


Date: 4.JUN.2018 13:22:42



5.1.1.3.2 Test Channel = HCH

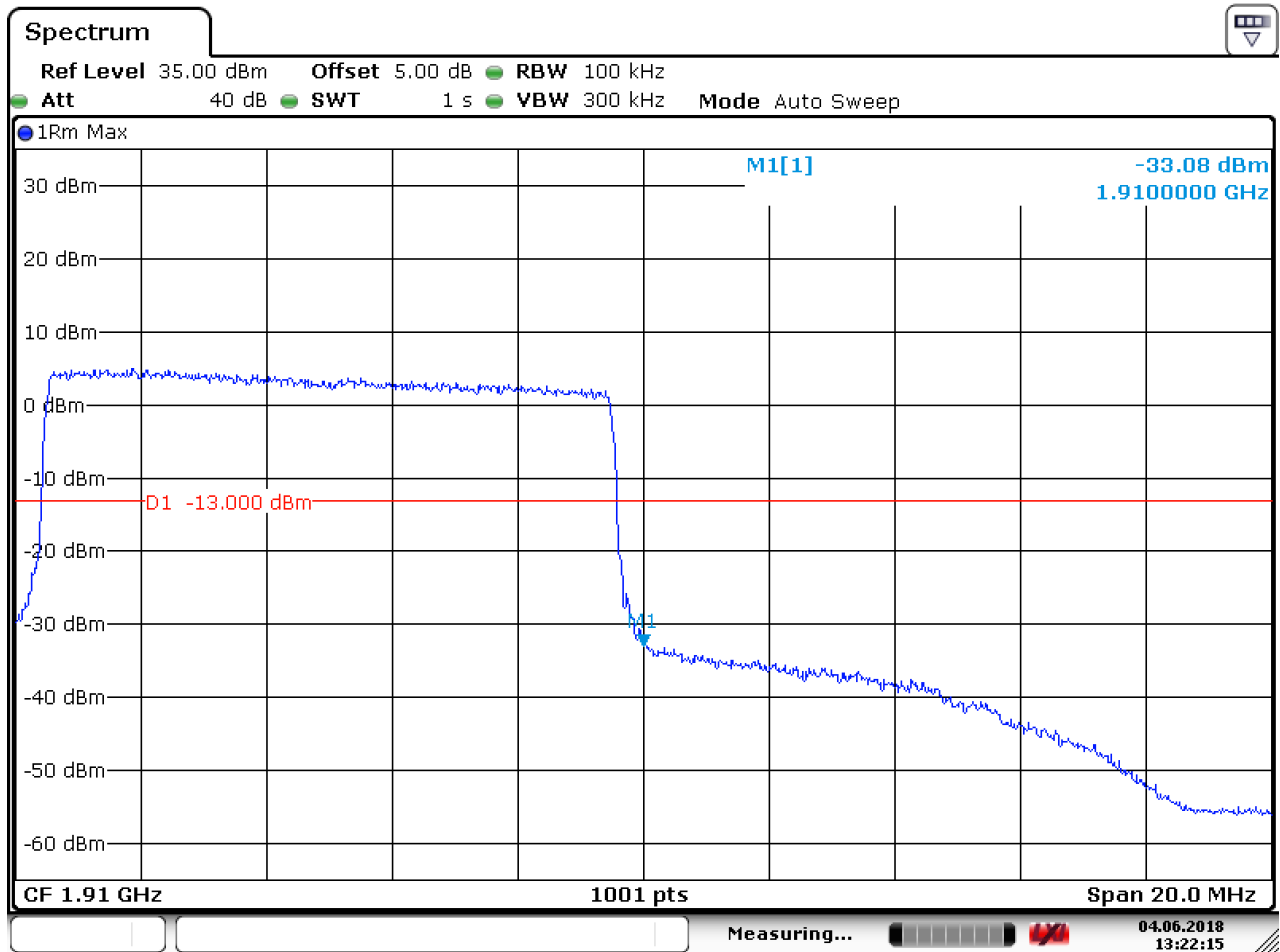
5.1.1.3.2.1 Test RB=1RB



Date: 4.JUN.2018 13:21:57



5.1.1.3.2.2 Test RB=50RB

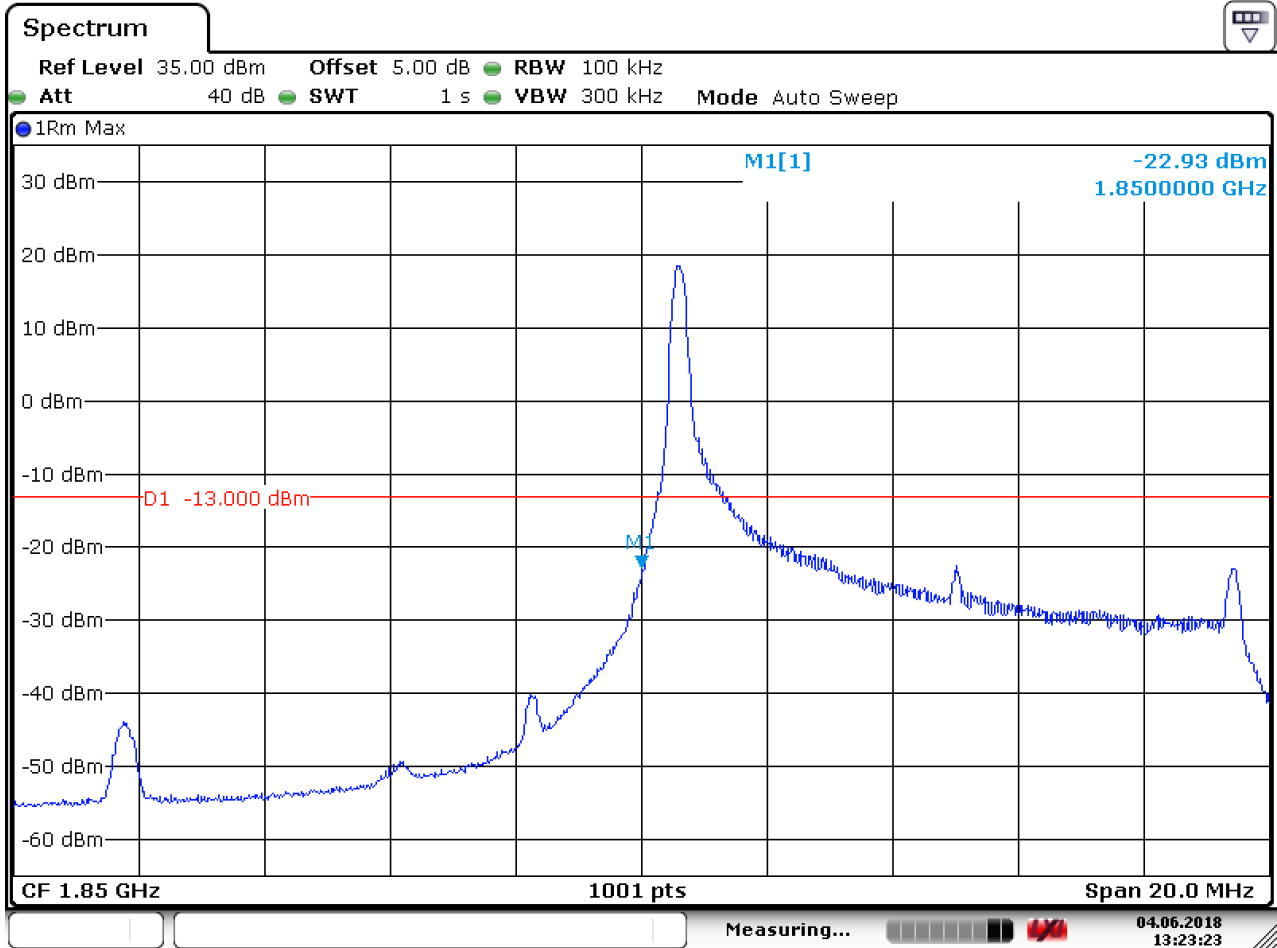


Date: 4.JUN.2018 13:22:16

5.1.1.4 Test Mode = LTE/TM2 10MHz

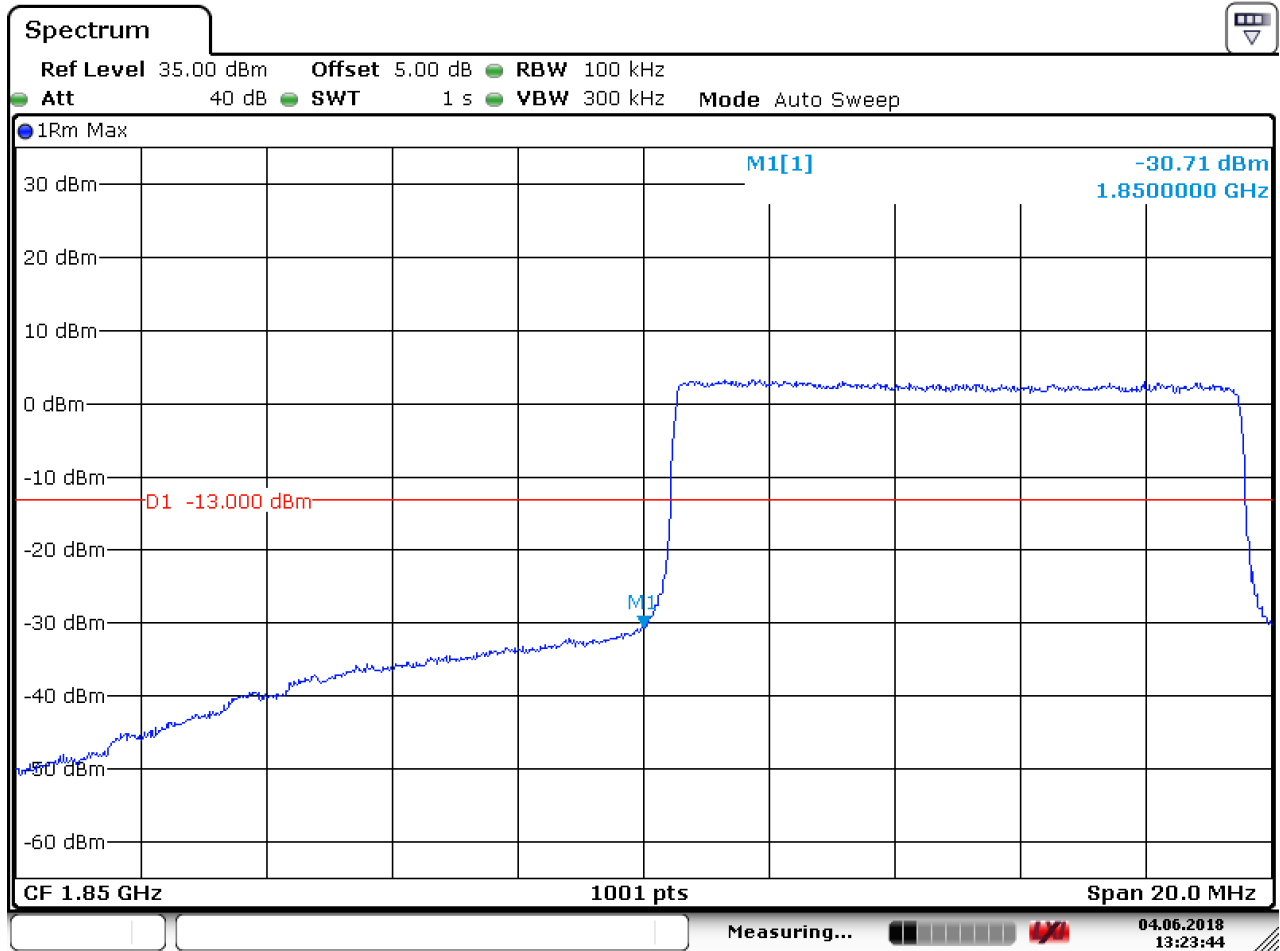
5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB



Date: 4.JUN.2018 13:23:23

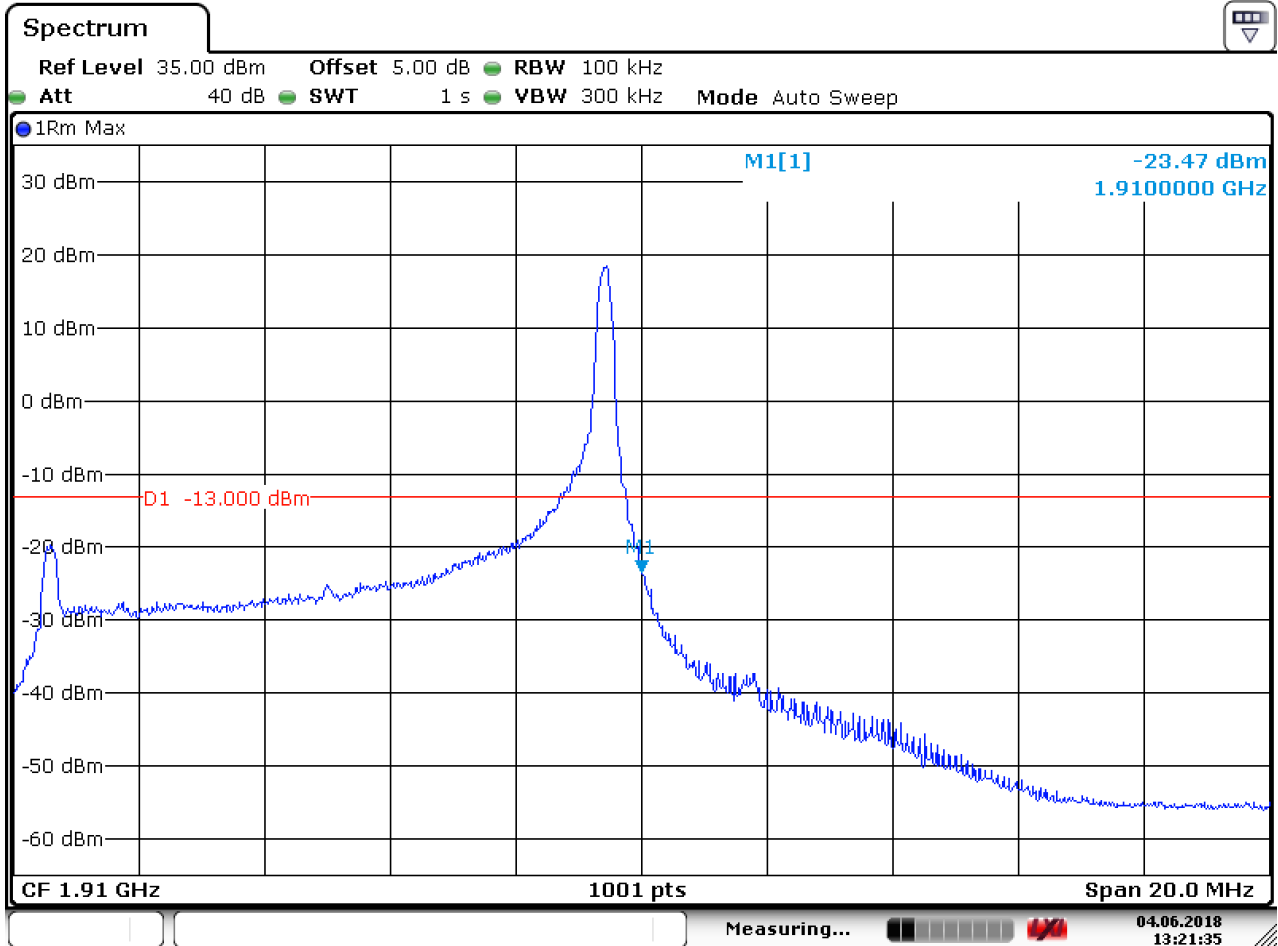
5.1.1.4.1.2 Test RB=50RB



Date: 4.JUN.2018 13:23:45

5.1.1.4.2 Test Channel = HCH

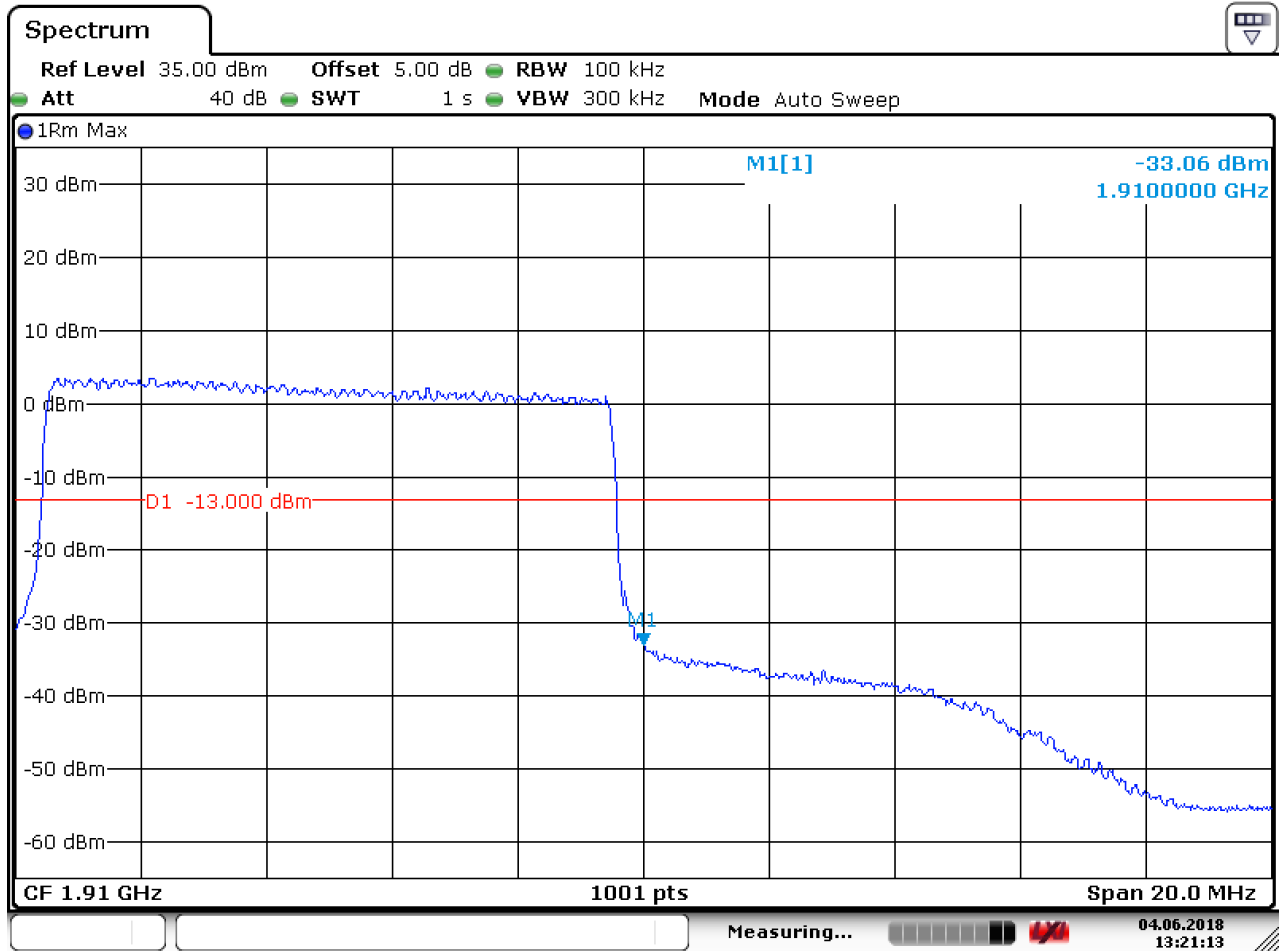
5.1.1.4.2.1 Test RB=1RB



Date: 4.JUN.2018 13:21:36



5.1.1.4.2.2 Test RB=50RB

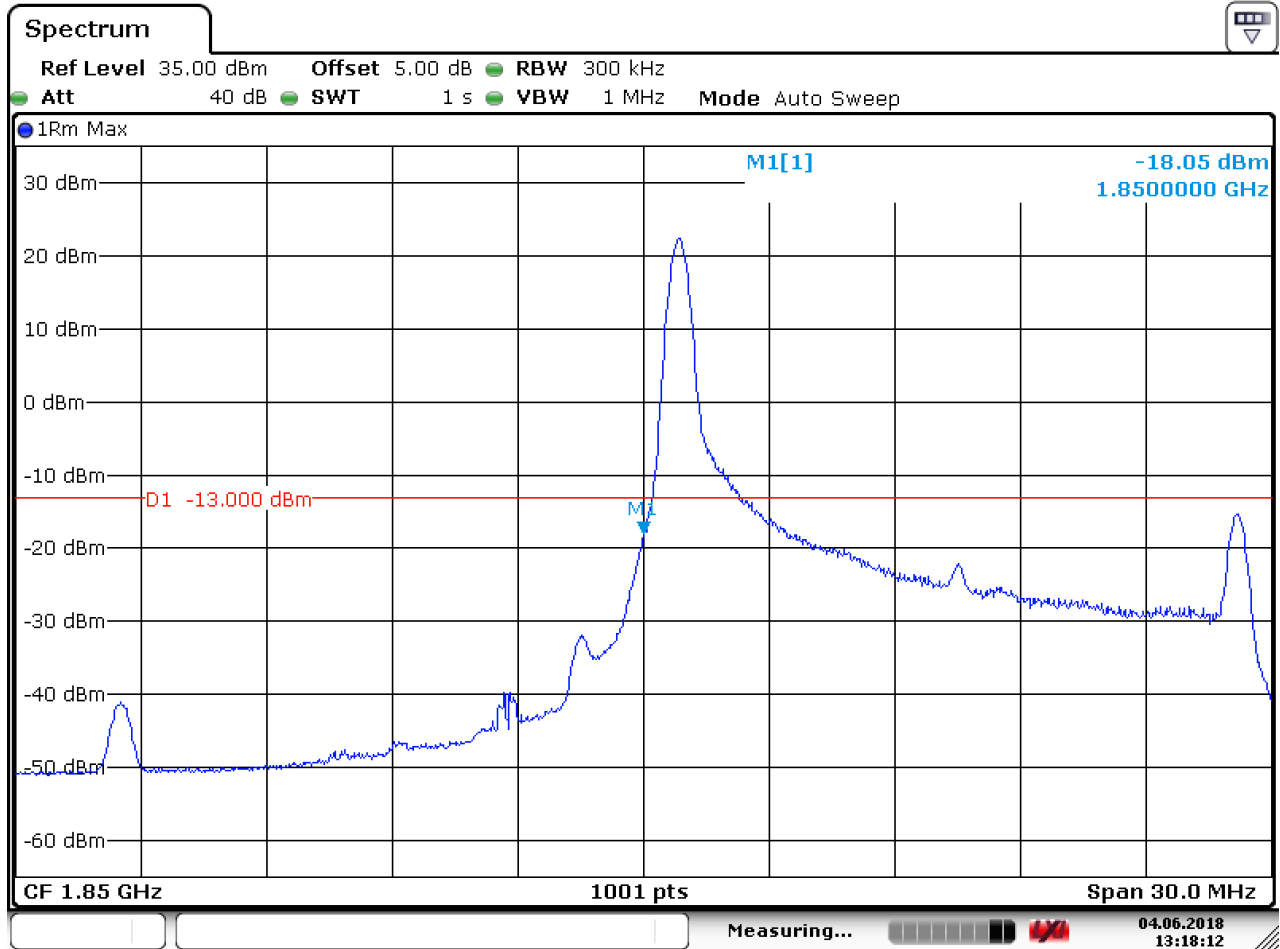


Date: 4.JUN.2018 13:21:14

5.1.1.5 Test Mode = LTE/TM1 15MHz

5.1.1.5.1 Test Channel = LCH

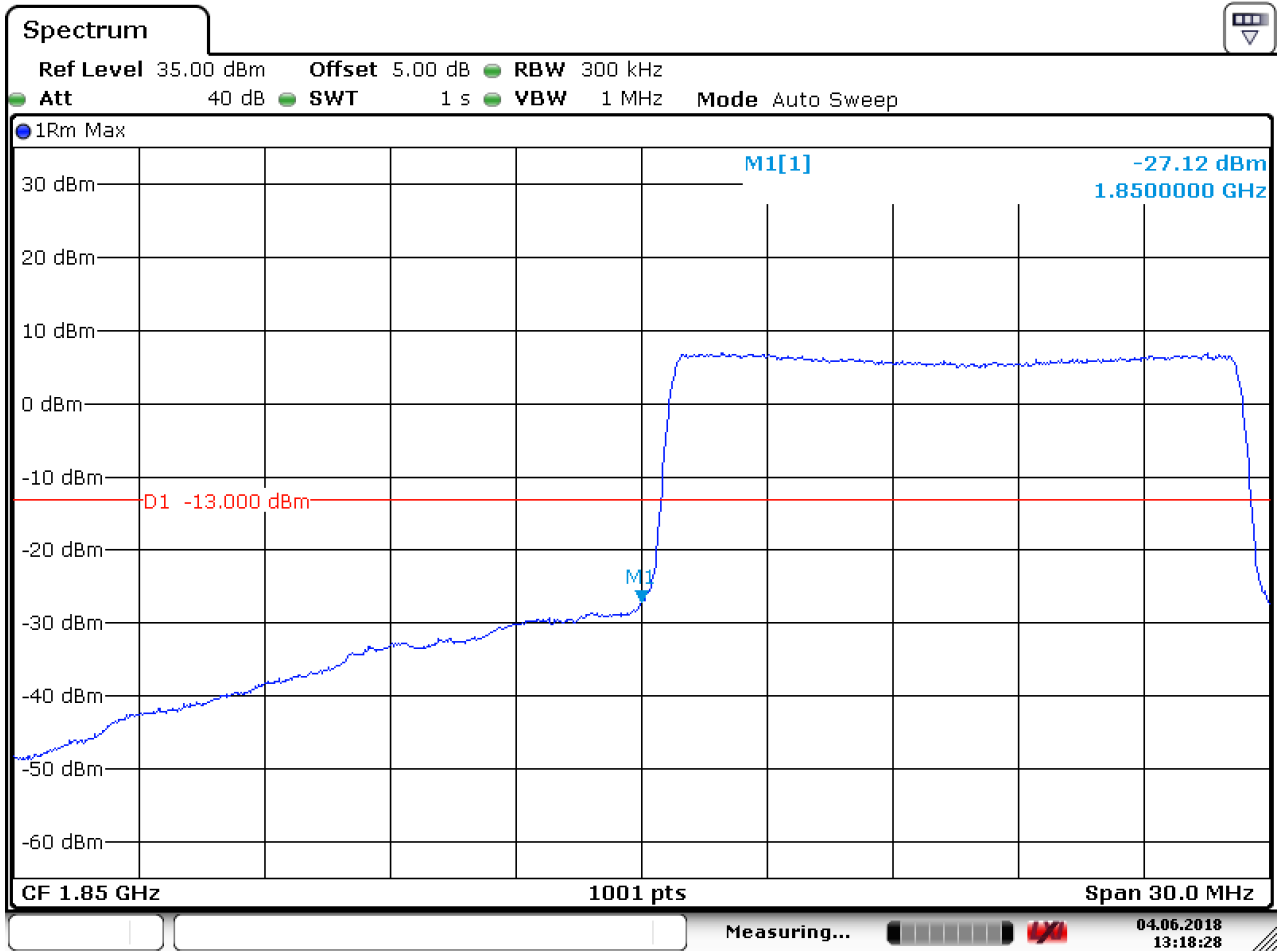
5.1.1.5.1.1 Test RB=1RB



Date: 4.JUN.2018 13:18:12



5.1.1.5.1.2 Test RB=75RB

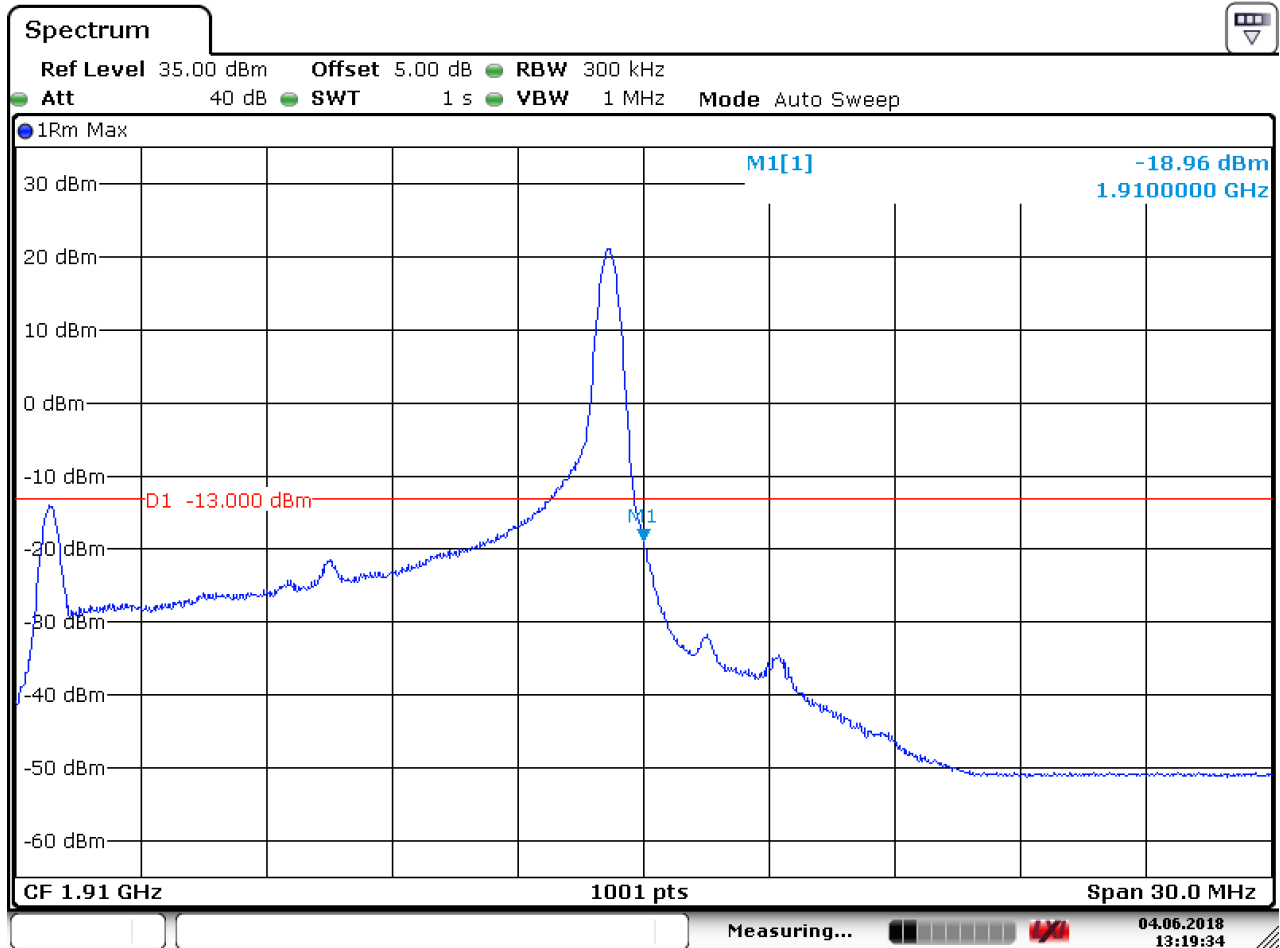


Date: 4.JUN.2018 13:18:28

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5.1.1.5.2 Test Channel = HCH

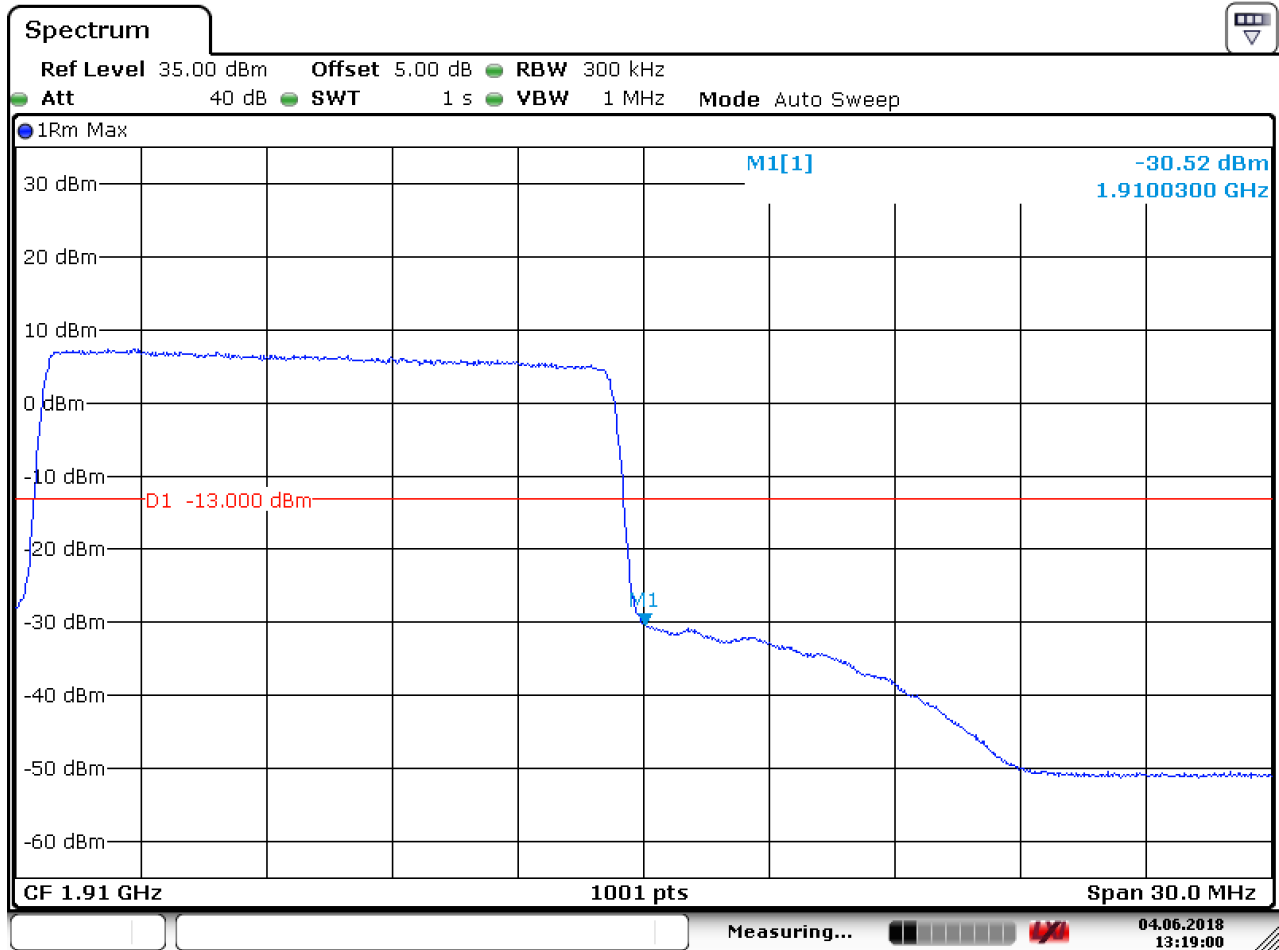
5.1.1.5.2.1 Test RB=1RB



Date: 4.JUN.2018 13:19:34



5.1.1.5.2.2 Test RB=75RB

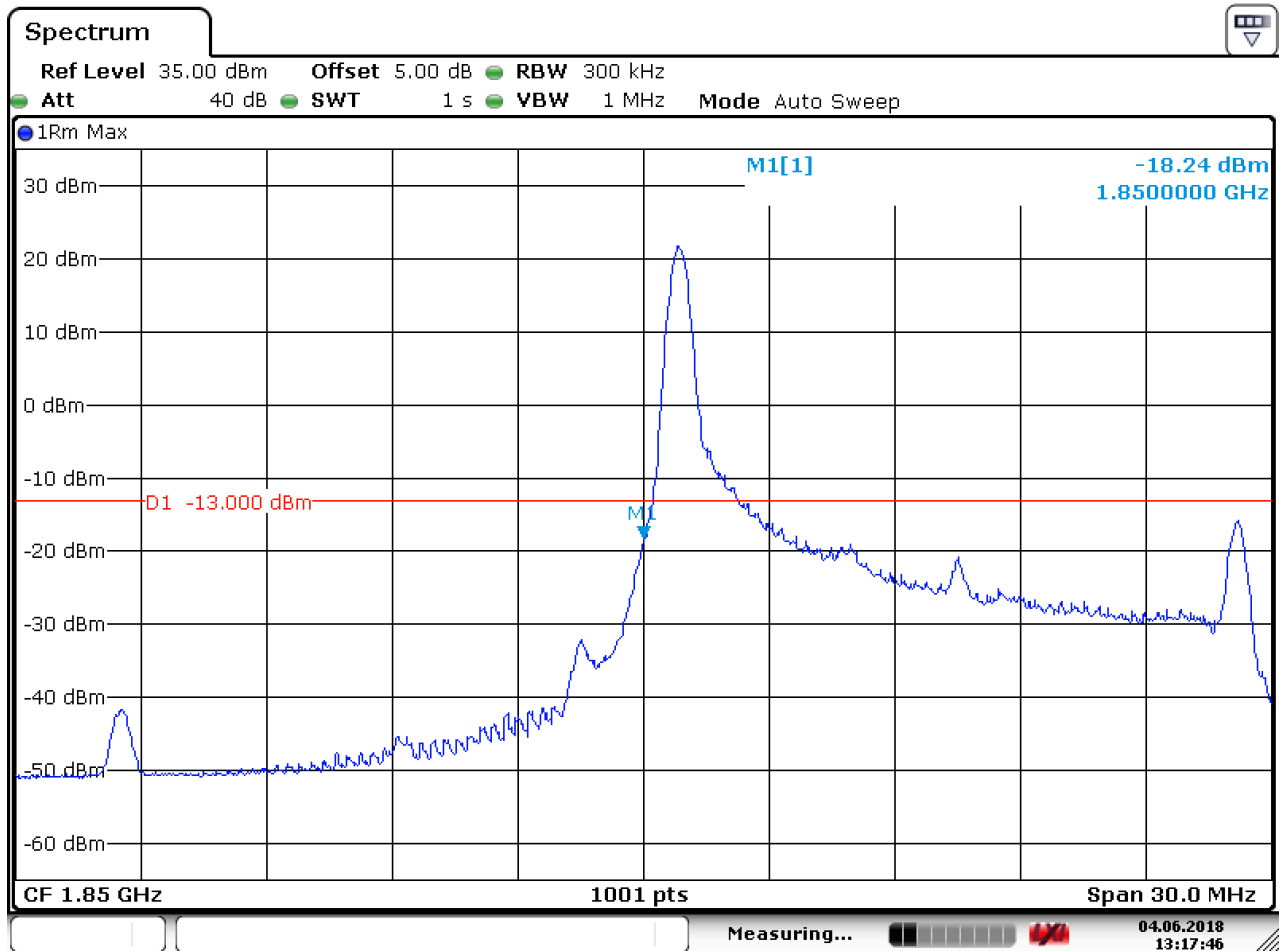


Date: 4.JUN.2018 13:19:00

5.1.1.6 Test Mode = LTE/TM2 15MHz

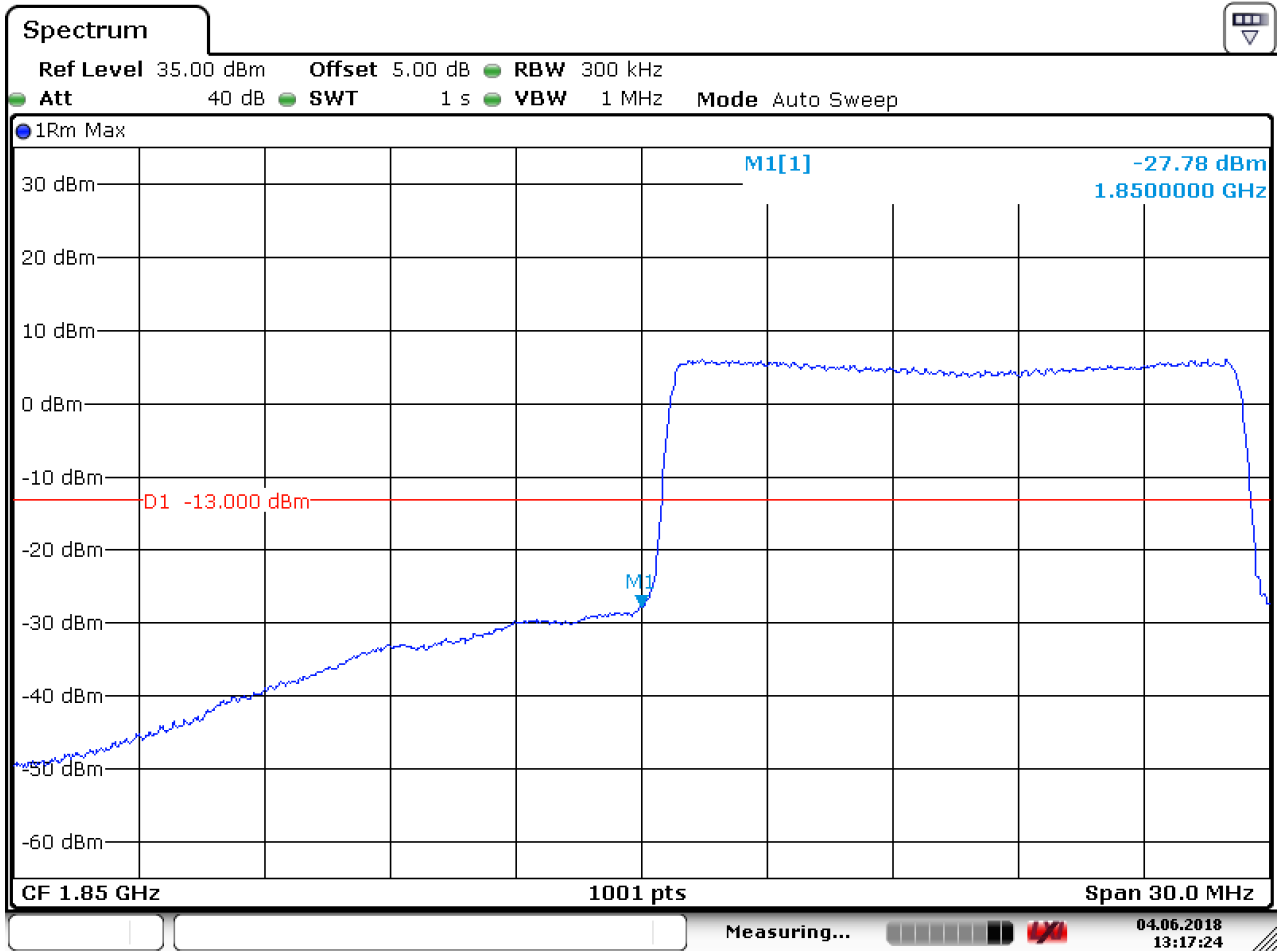
5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



Date: 4.JUN.2018 13:17:47

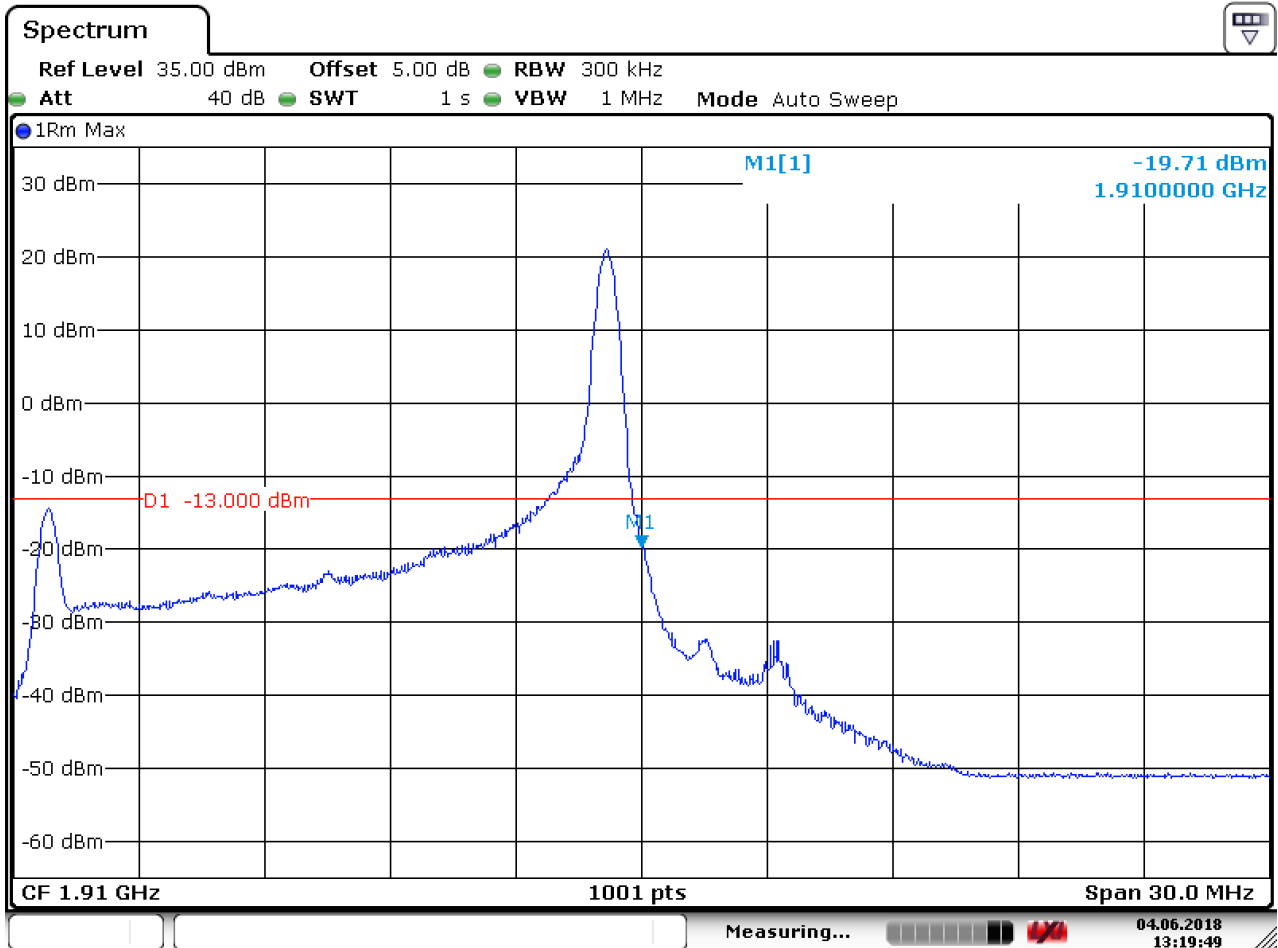
5.1.1.6.1.2 Test RB=75RB



Date: 4.JUN.2018 13:17:25

5.1.1.6.2 Test Channel = HCH

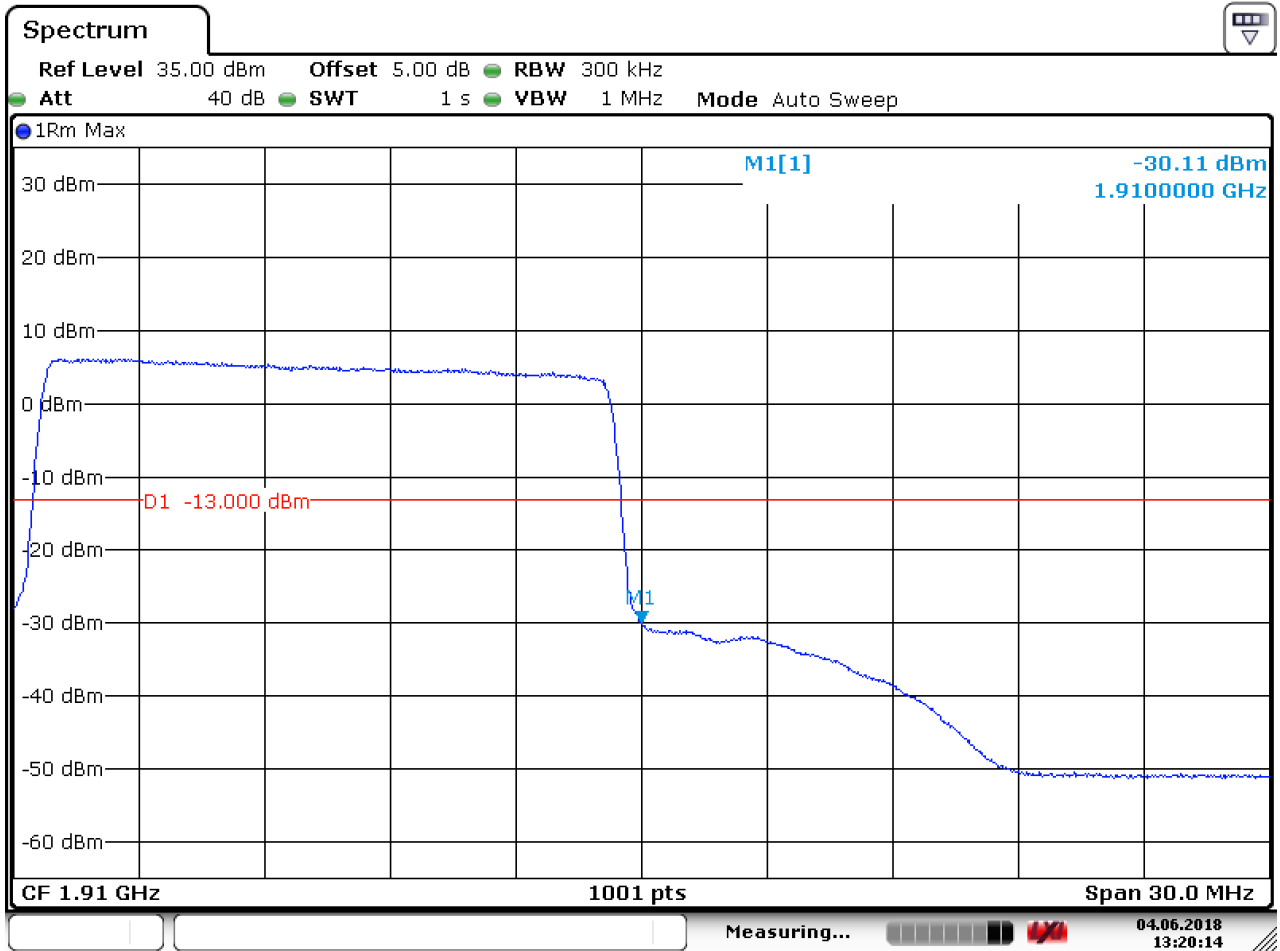
5.1.1.6.2.1 Test RB=1RB



Date: 4.JUN.2018 13:19:50



5.1.1.6.2.2 Test RB=75RB



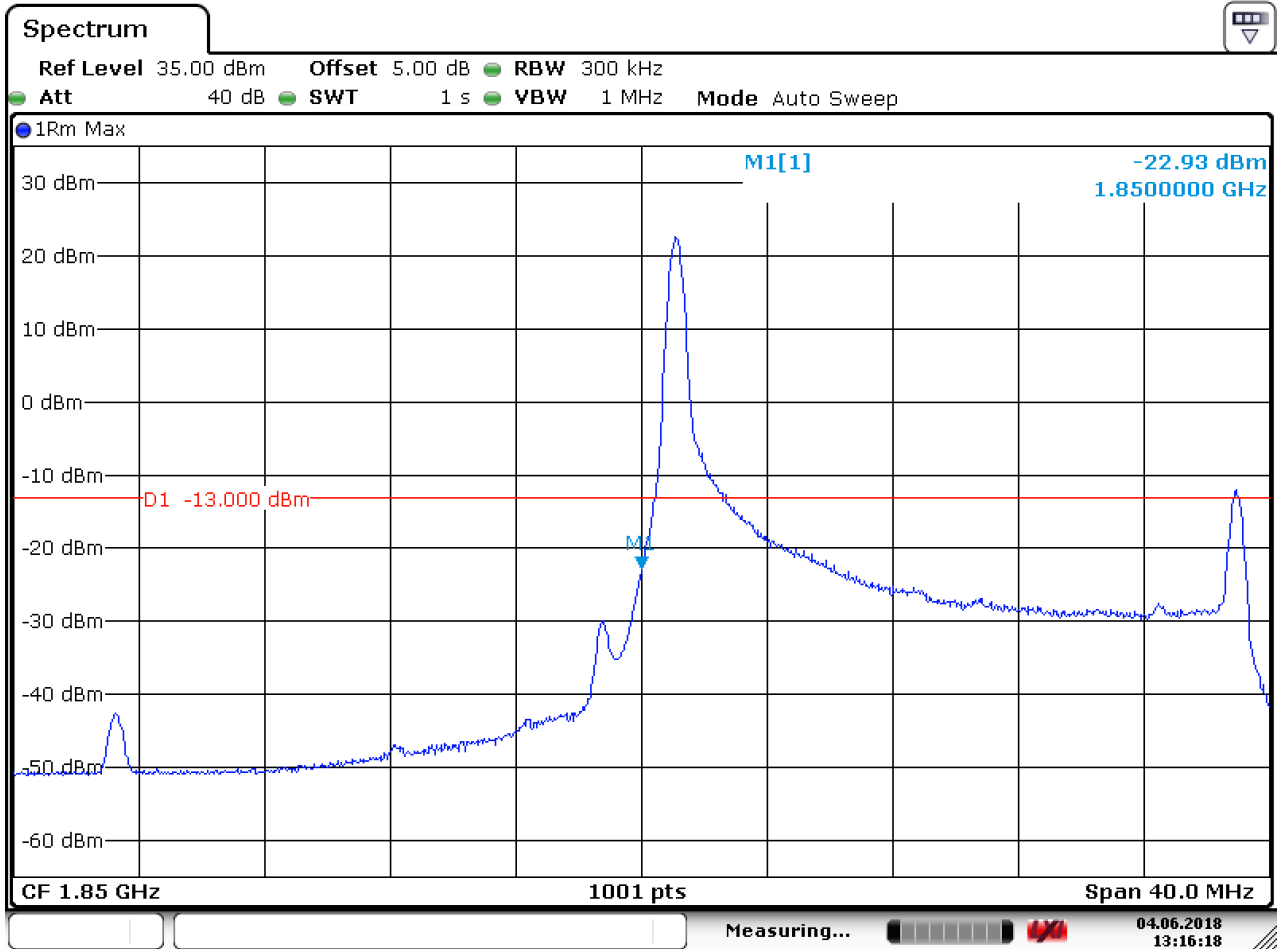
Date: 4. JUN. 2018 13:20:15

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5.1.1.7 Test Mode = LTE/TM1 20MHz

5.1.1.7.1 Test Channel = LCH

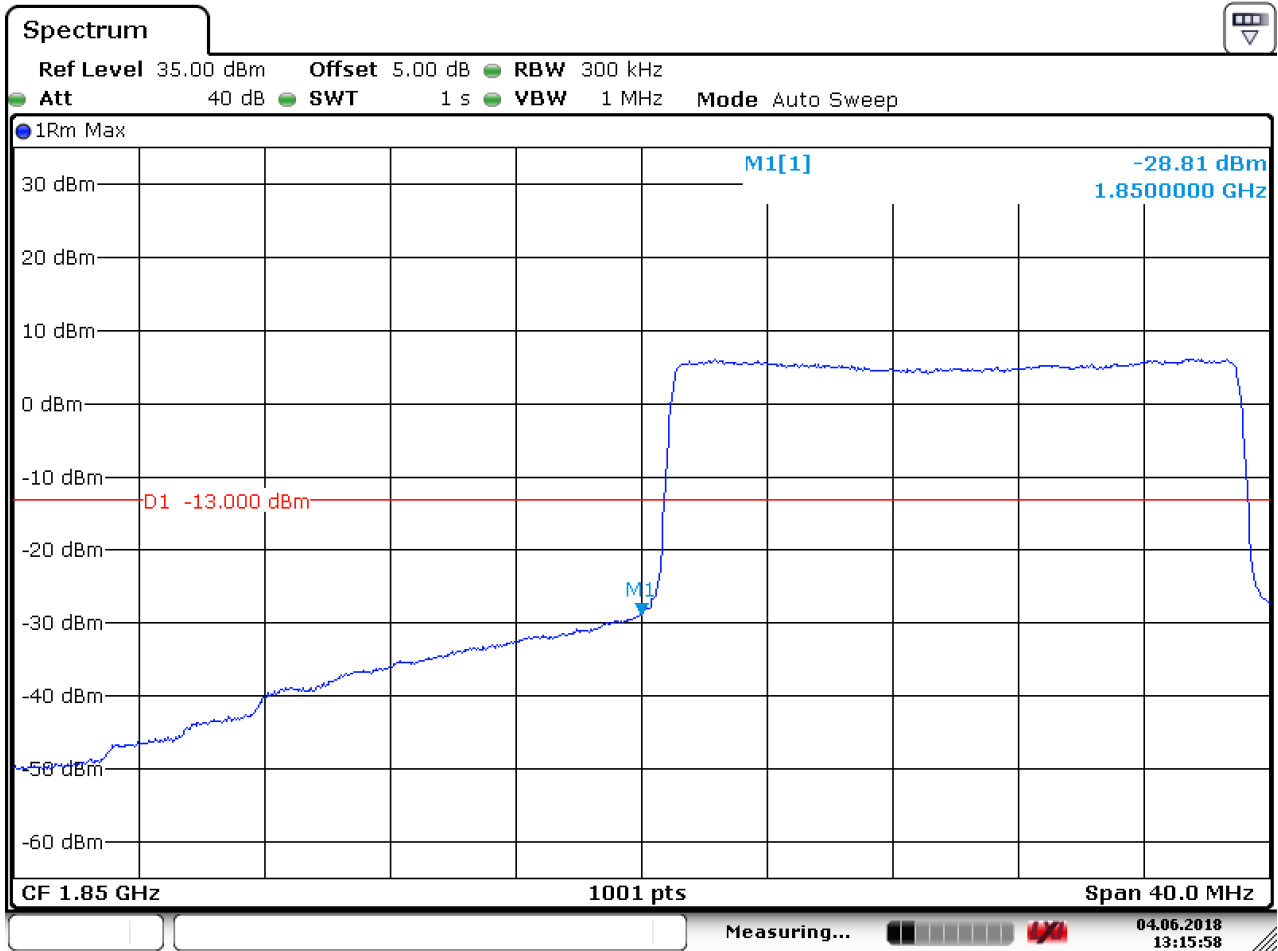
5.1.1.7.1.1 Test RB=1RB



Date: 4.JUN.2018 13:16:18



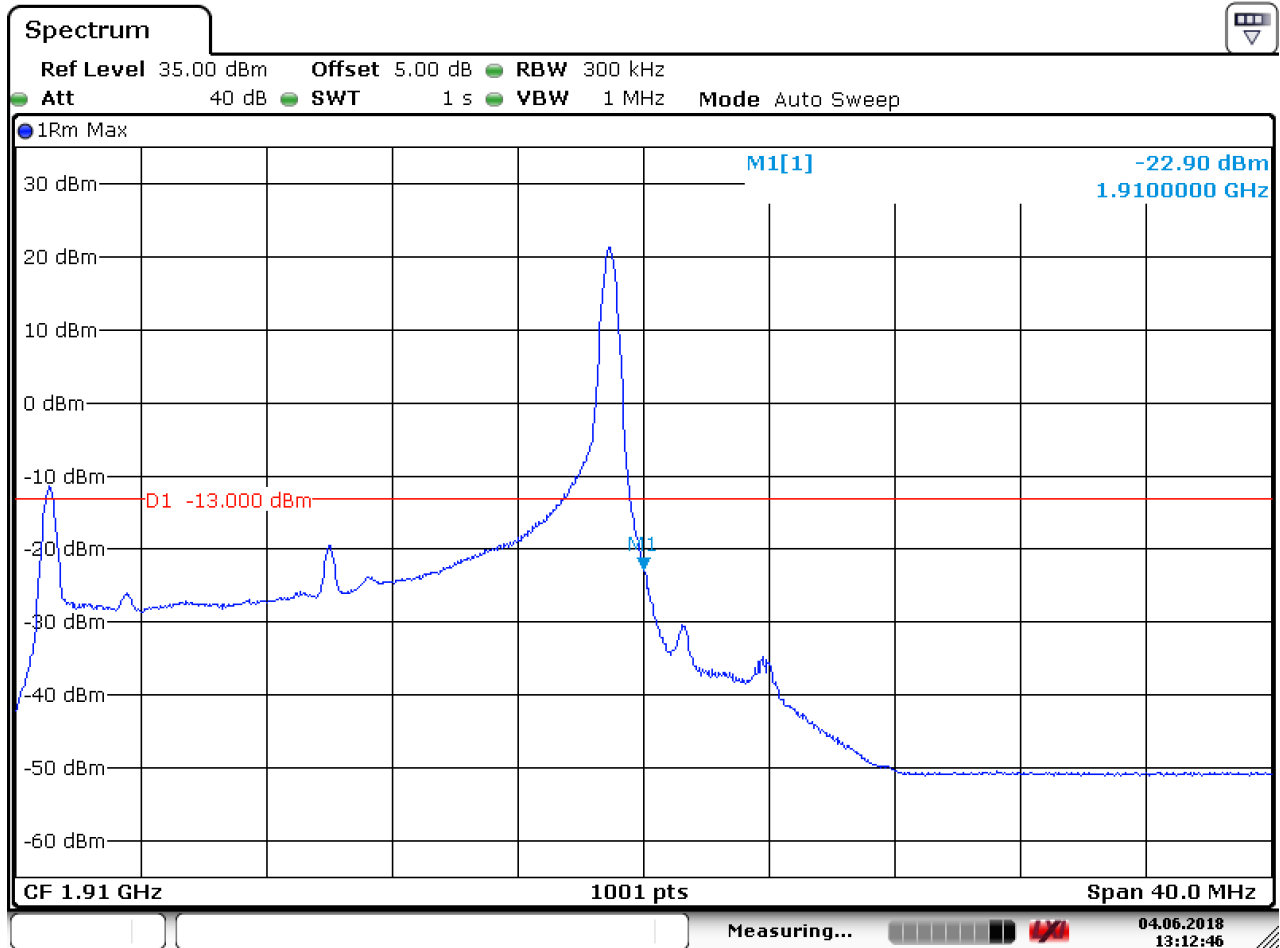
5.1.1.7.1.2 Test RB=100RB



Date: 4.JUN.2018 13:15:58

5.1.1.7.2 Test Channel = HCH

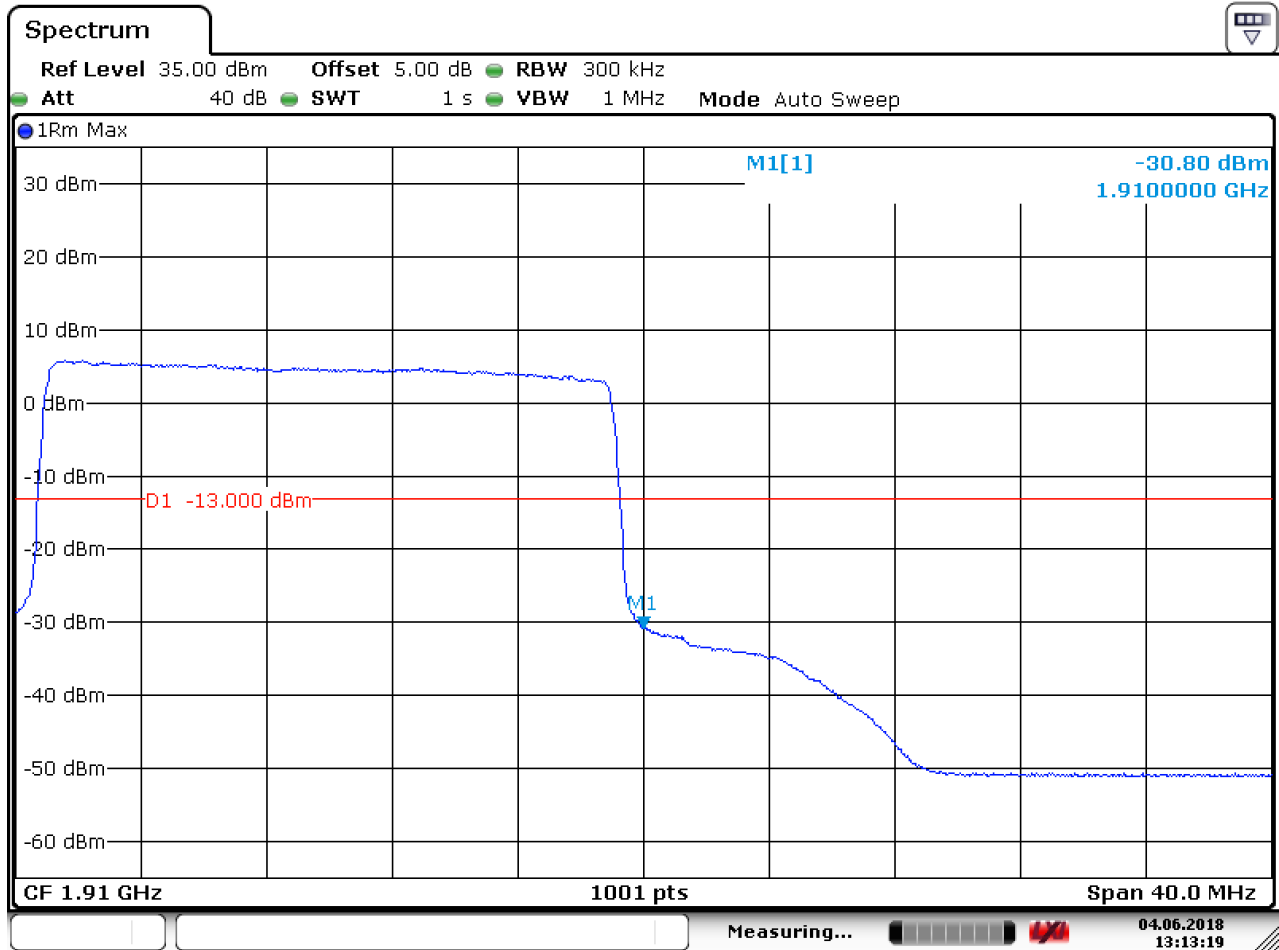
5.1.1.7.2.1 Test RB=1RB



Date: 4.JUN.2018 13:12:47



5.1.1.7.2.2 Test RB=100RB



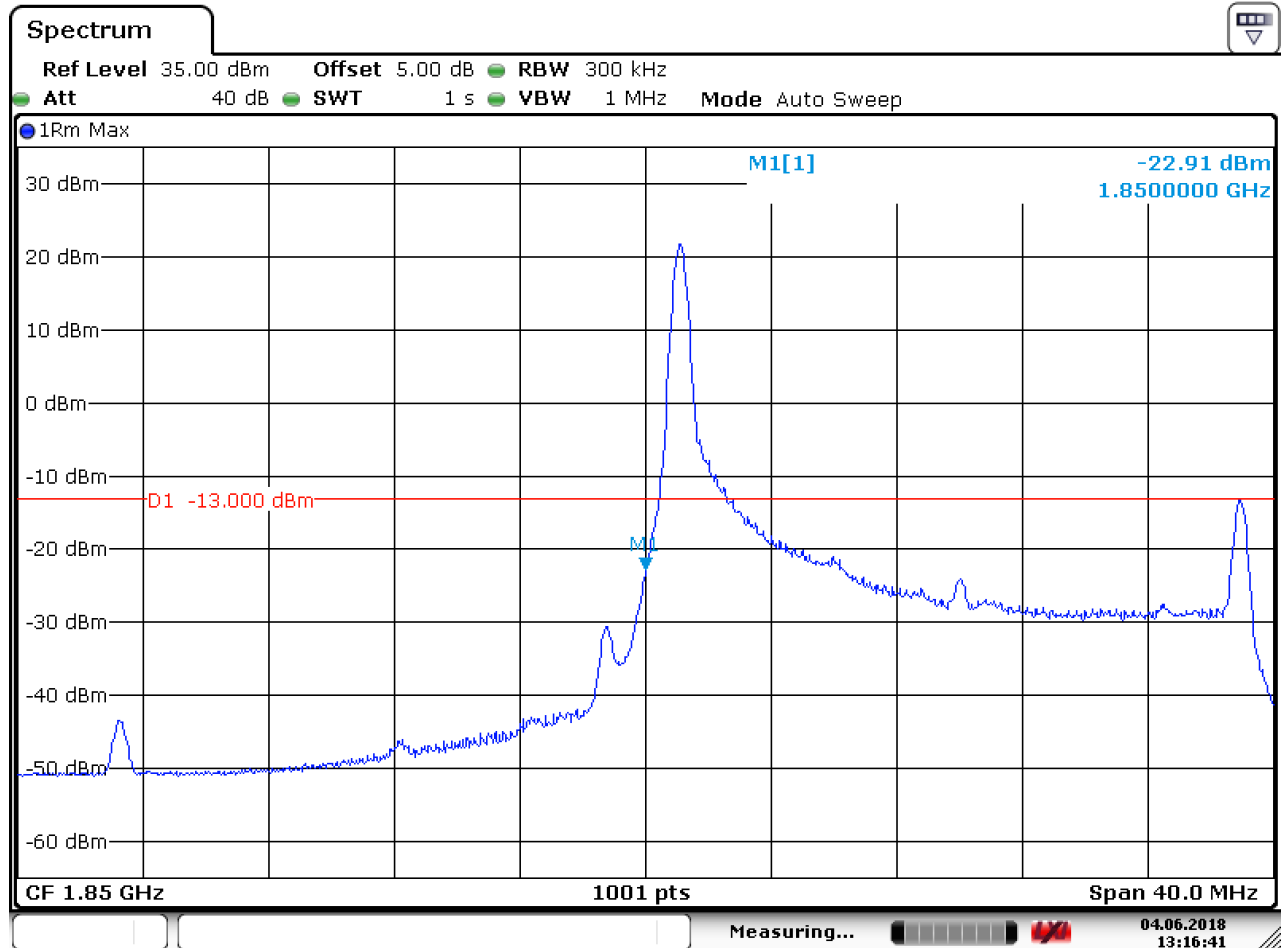
Date: 4.JUN.2018 13:13:19



5.1.1.8 Test Mode = LTE/TM2 20MHz

5.1.1.8.1 Test Channel = LCH

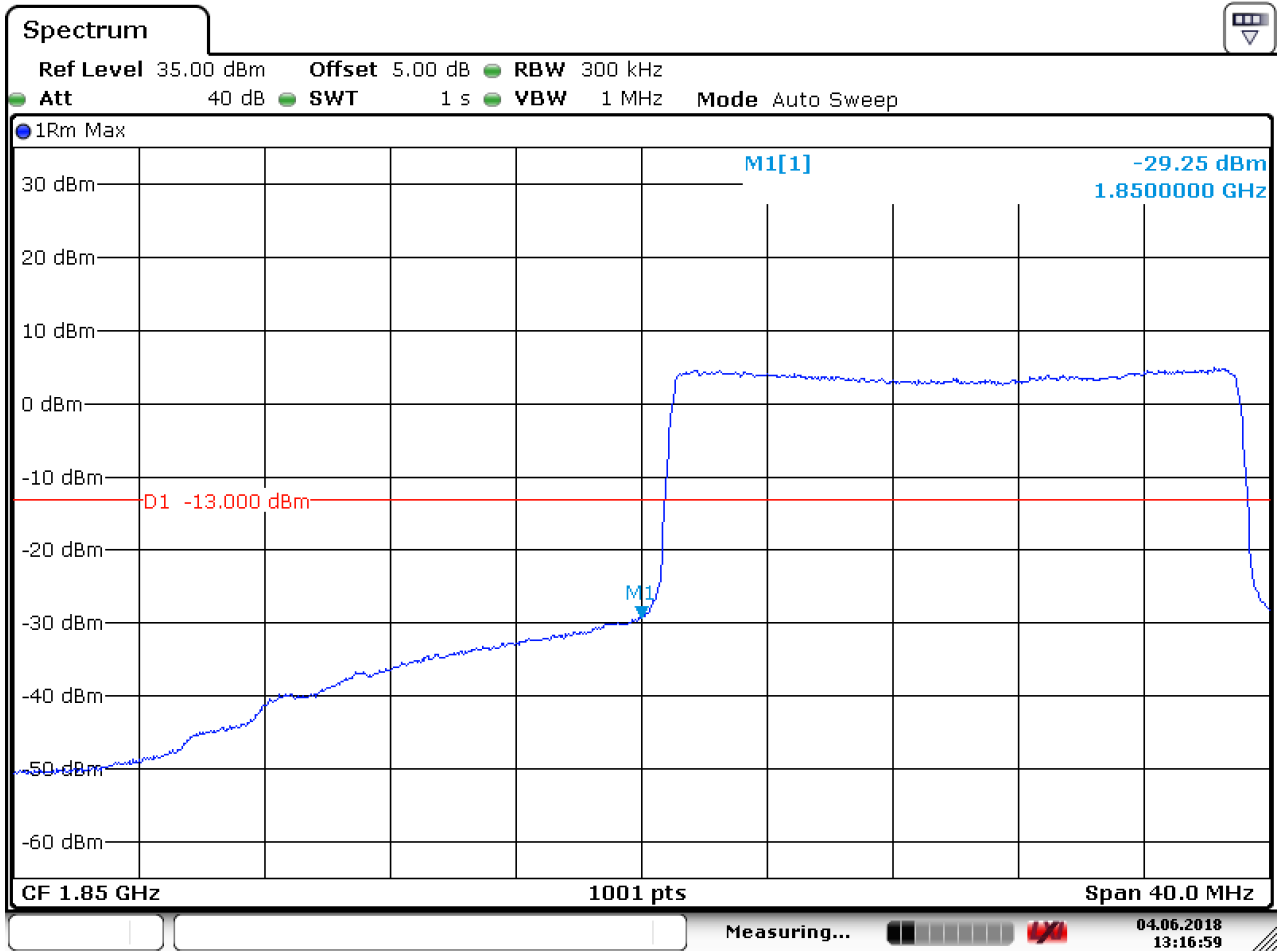
5.1.1.8.1.1 Test RB=1RB



Date: 4.JUN.2018 13:16:41



5.1.1.8.1.2 Test RB=100RB

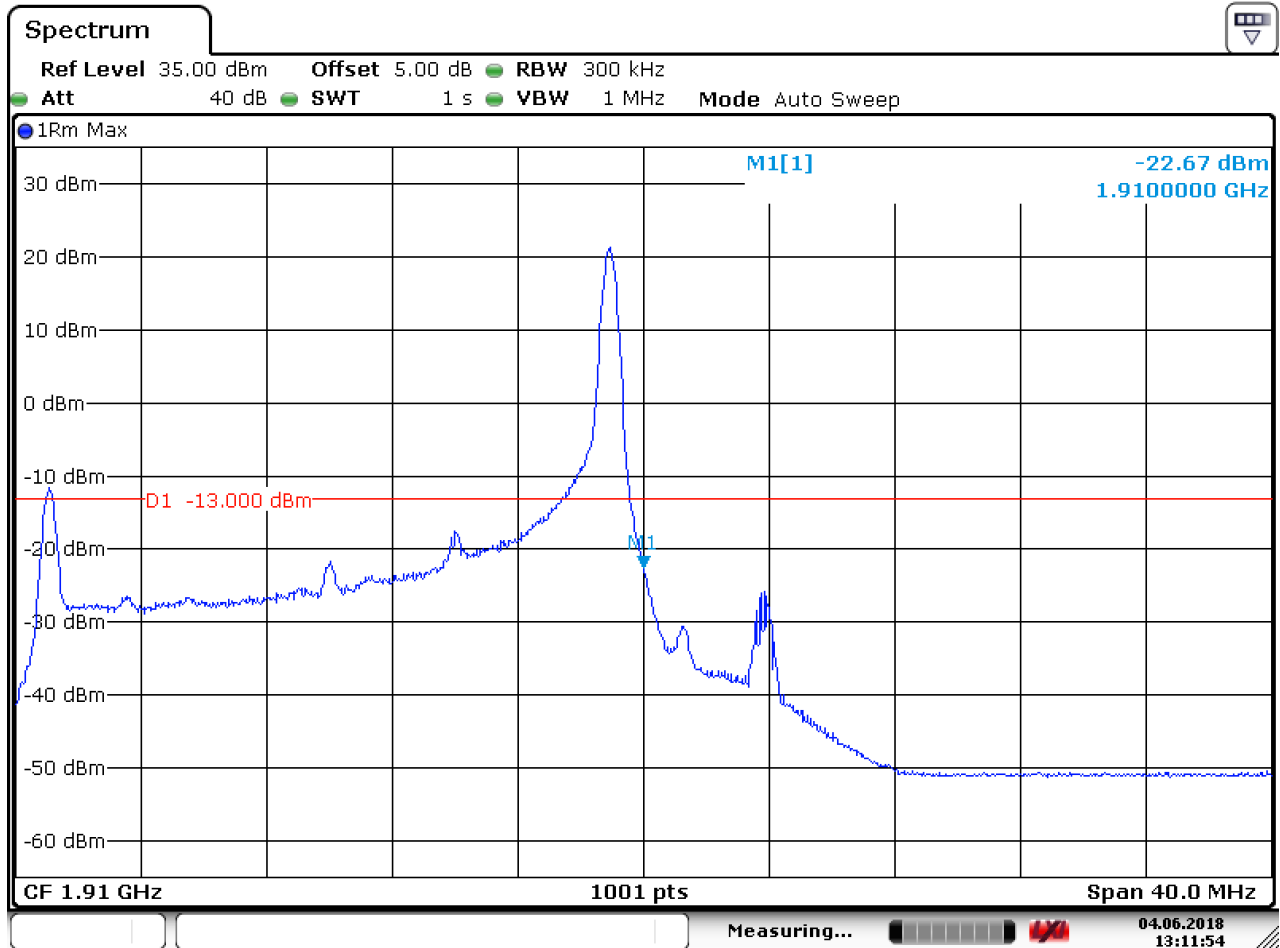


Date: 4.JUN.2018 13:16:59

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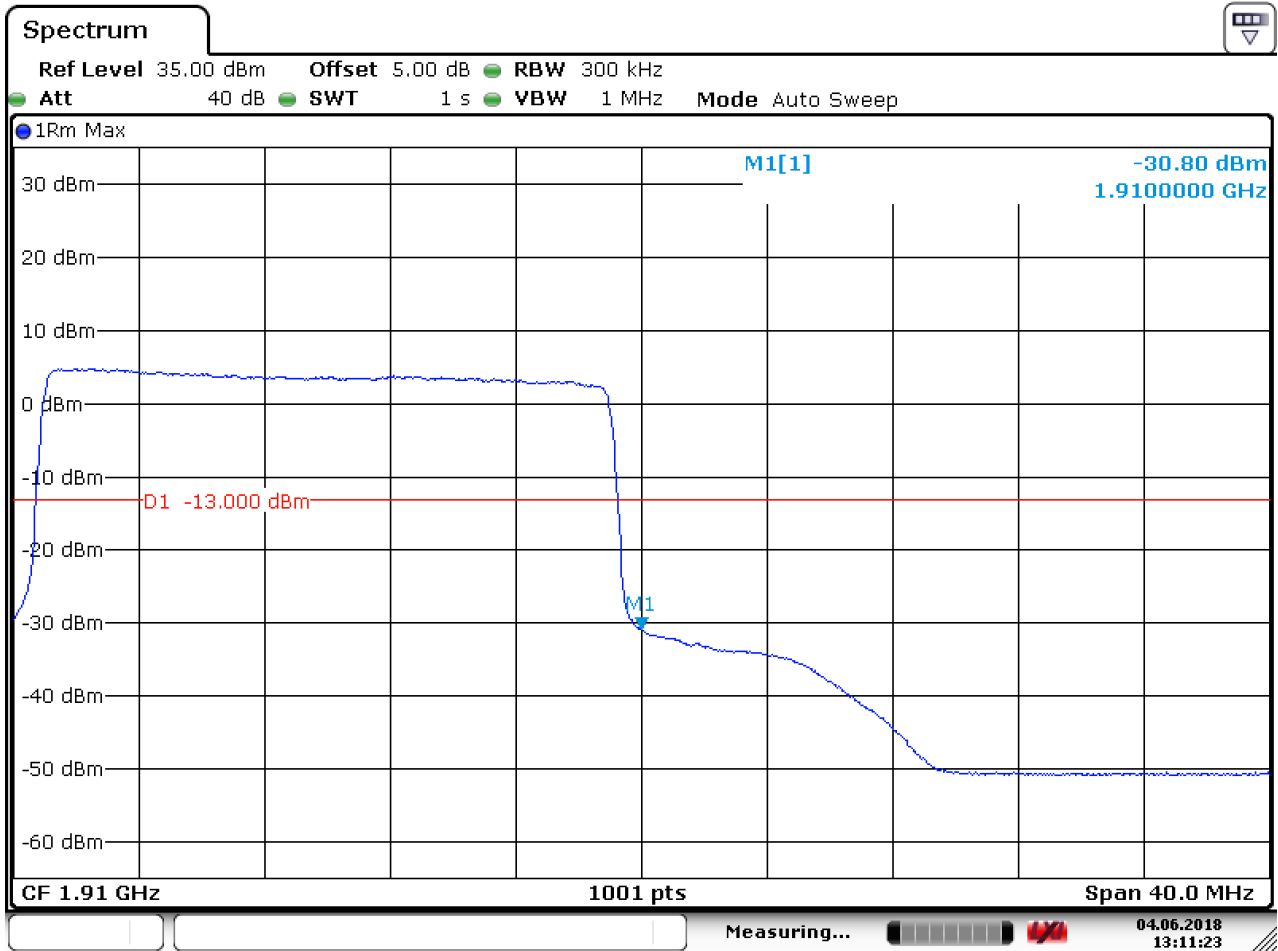
5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



Date: 4.JUN.2018 13:11:55

5.1.1.8.2.2 Test RB=100RB



Date: 4.JUN.2018 13:11:23

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

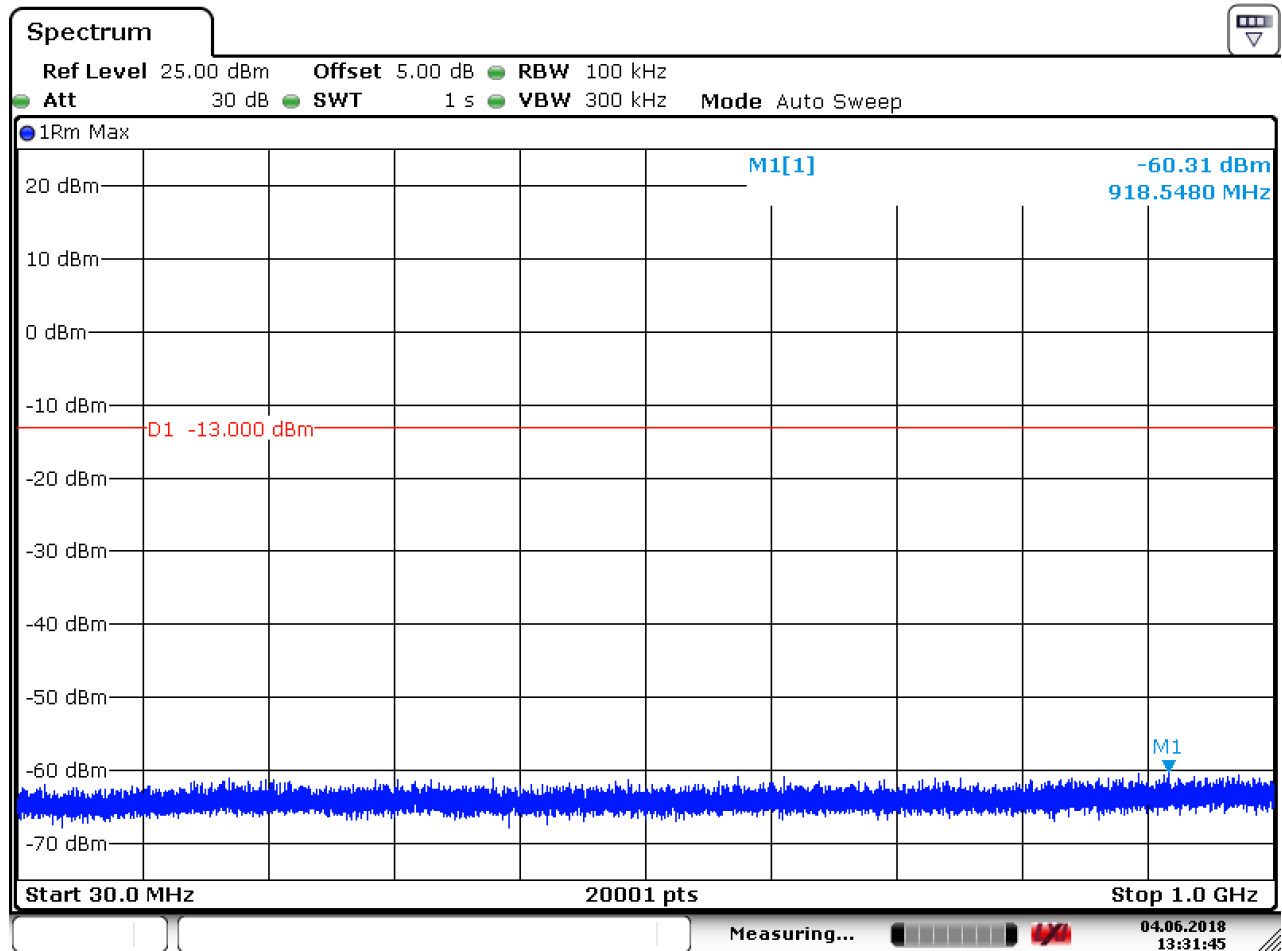
Part I - Test Plots

6.1 For LTE

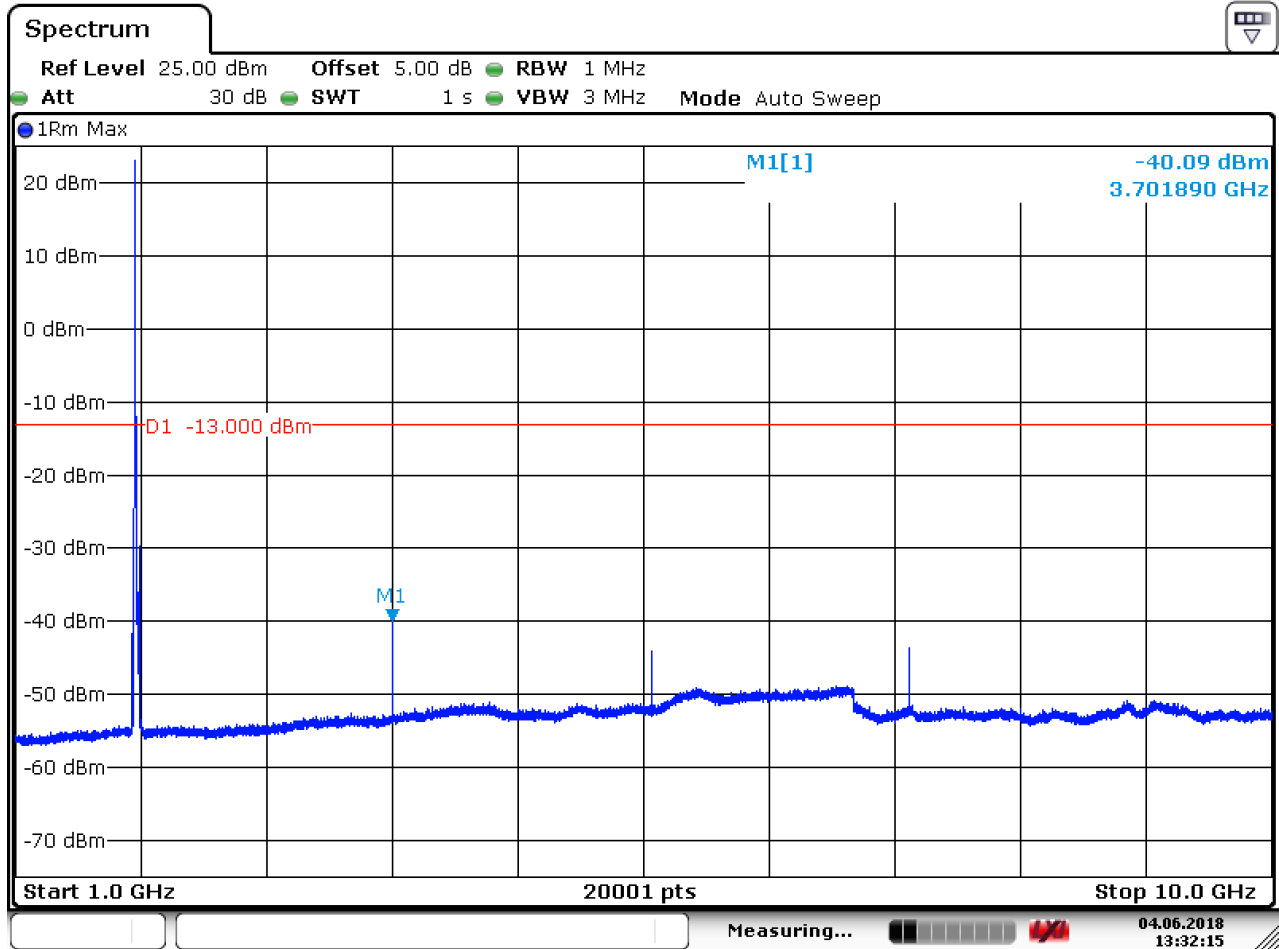
6.1.1 Test Band = LTE band2

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

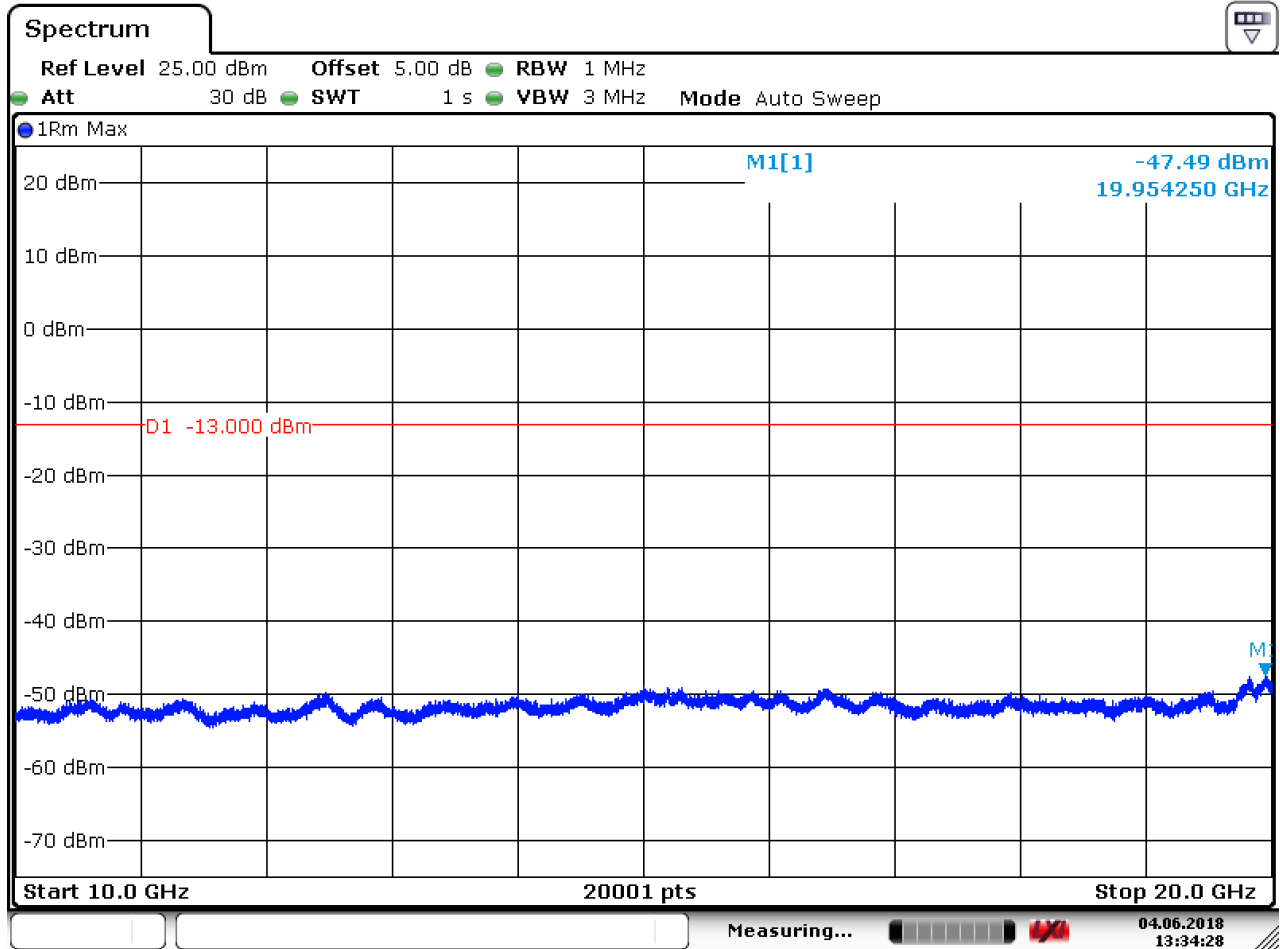
6.1.1.1.1 Test Channel = LCH



Date: 4.JUN.2018 13:31:46



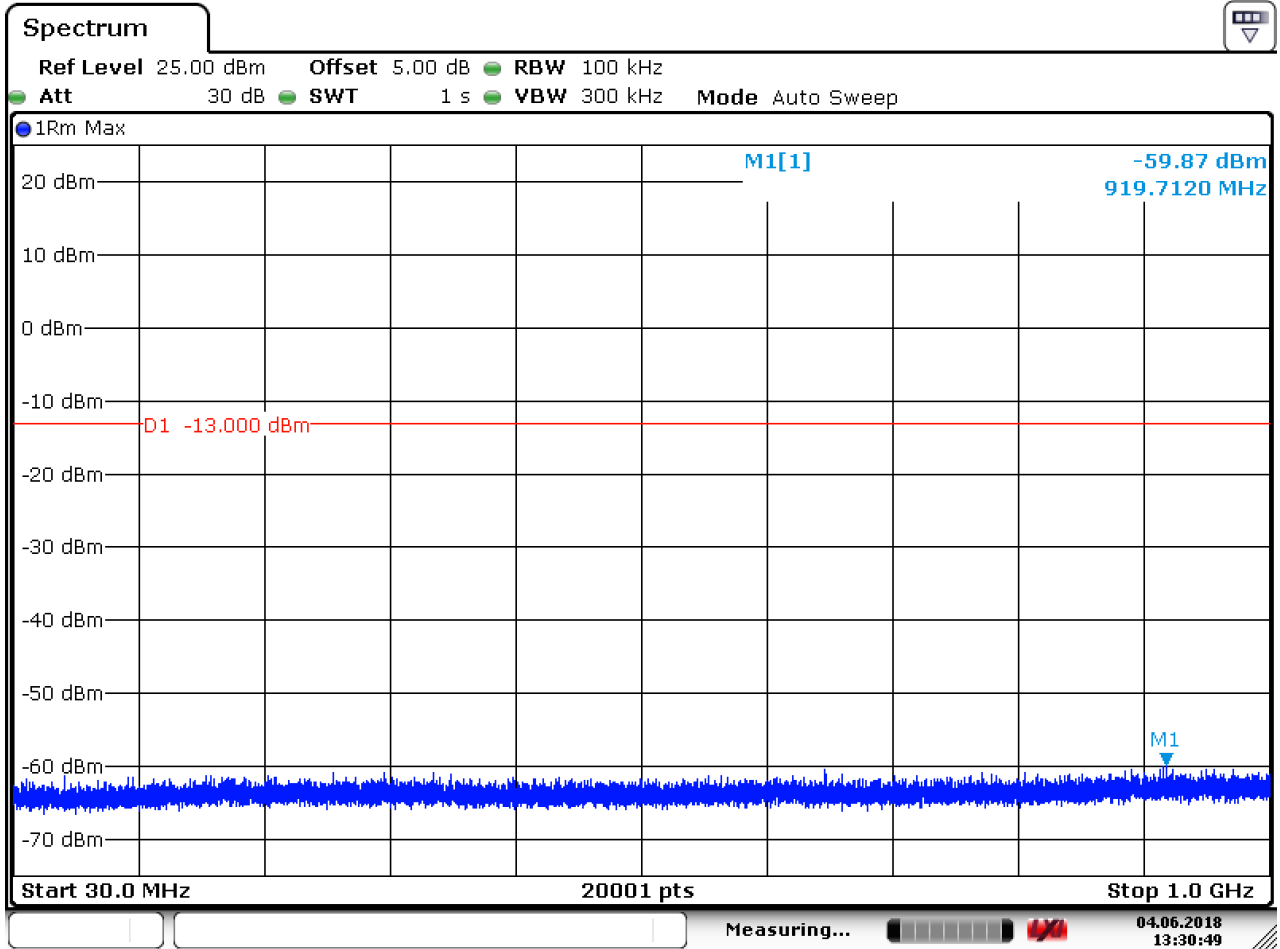
Date: 4.JUN.2018 13:32:15



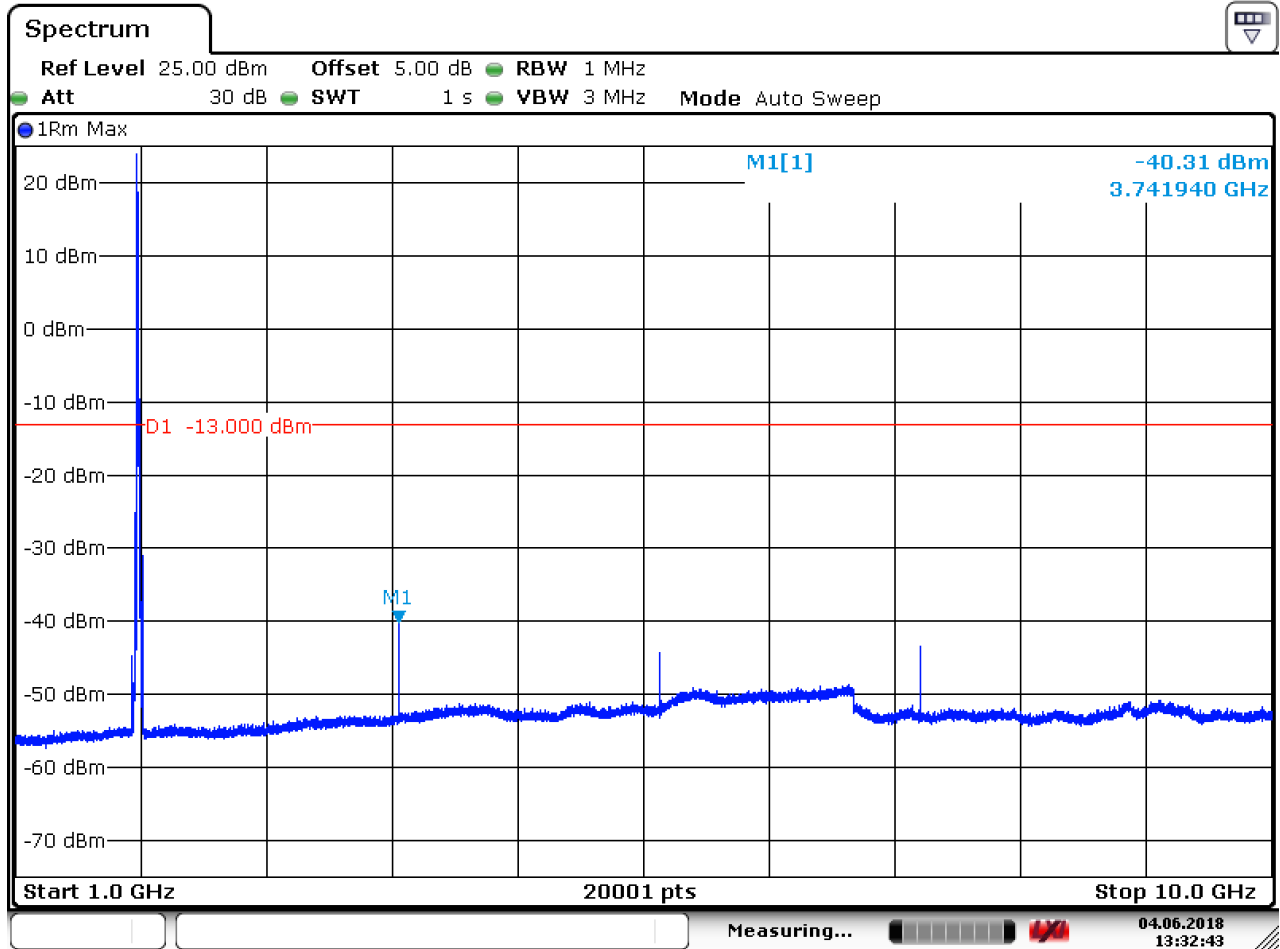
Date: 4.JUN.2018 13:34:28



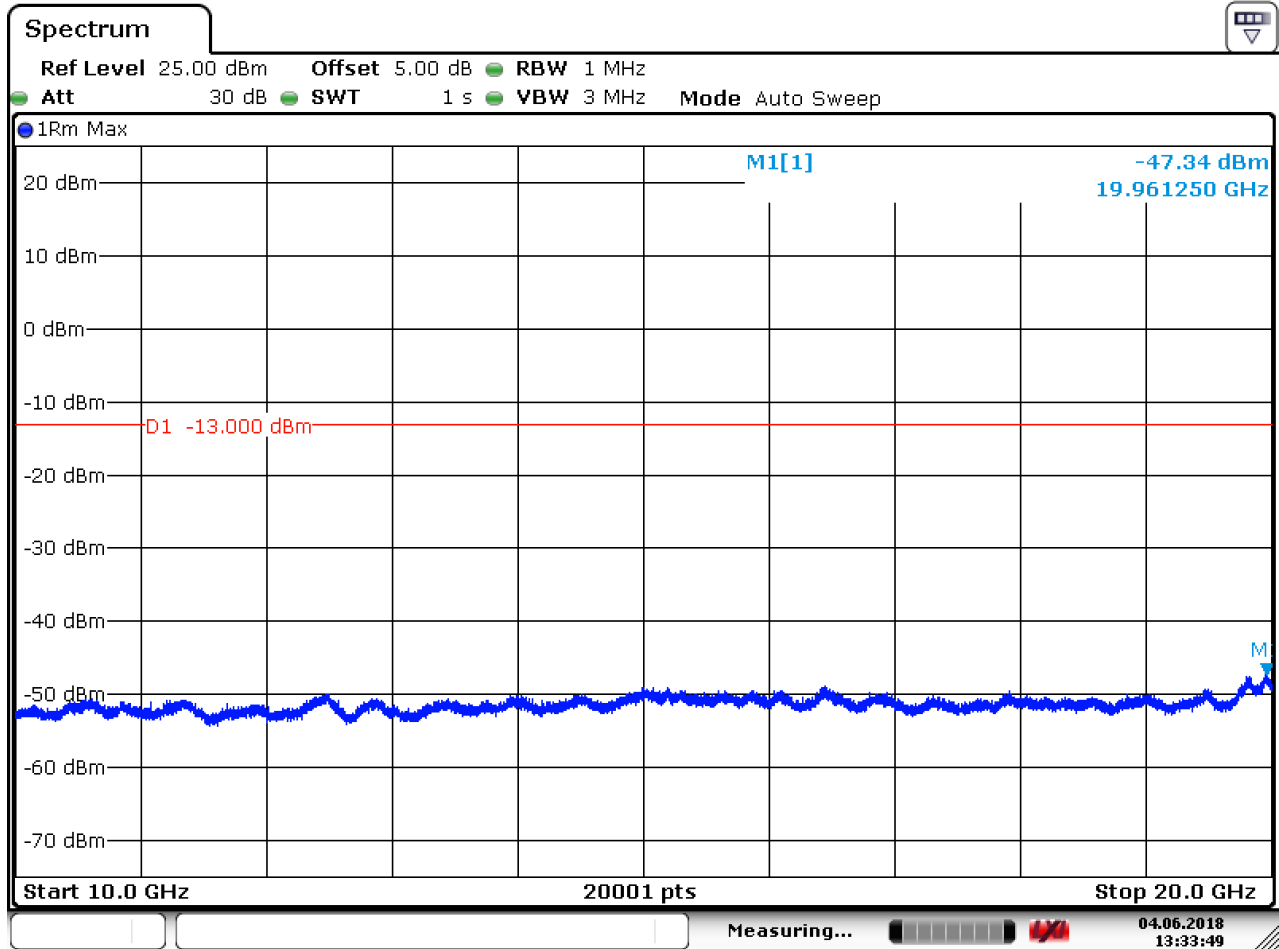
6.1.1.1.2 Test Channel = MCH



Date: 4.JUN.2018 13:30:50



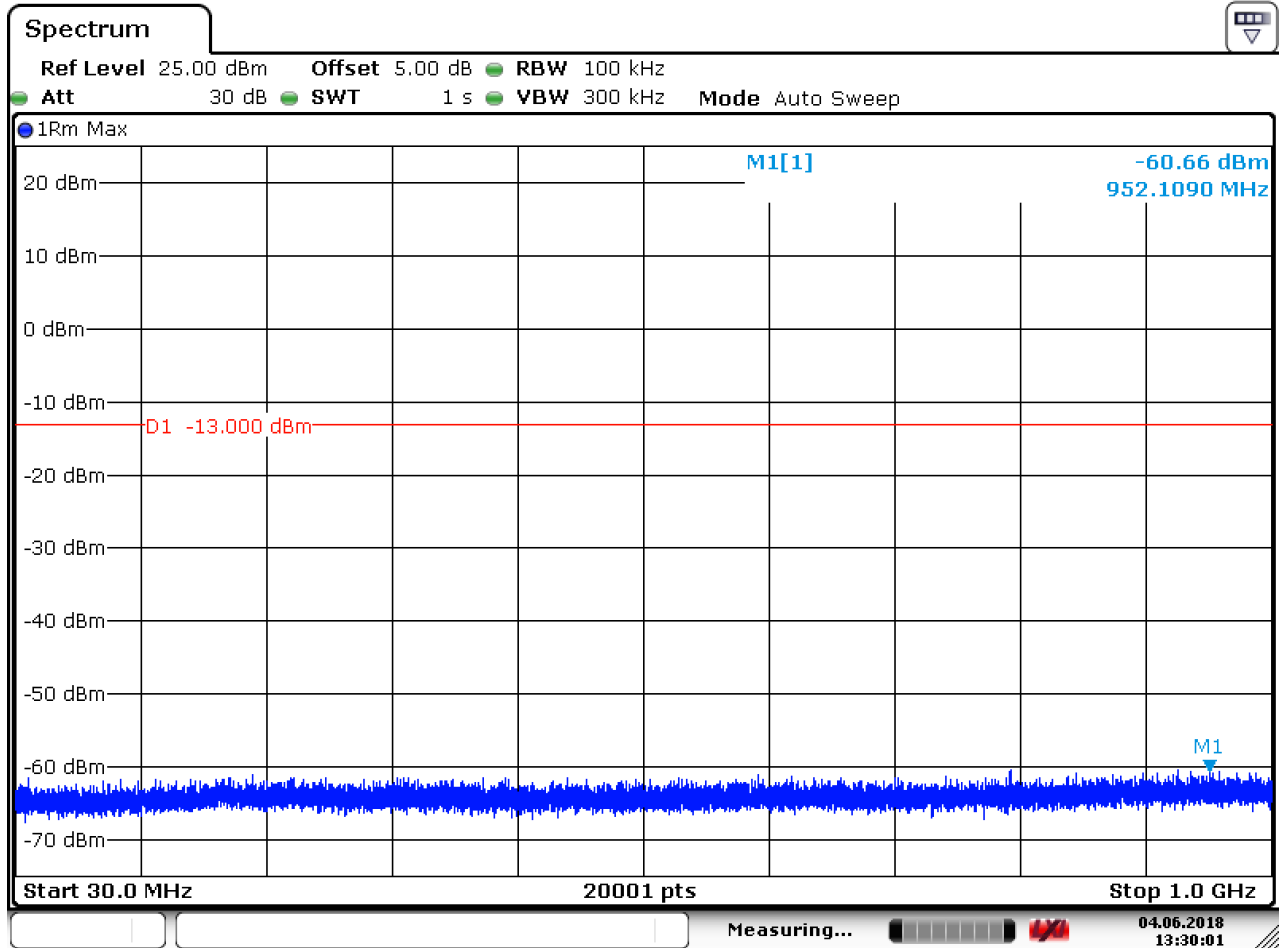
Date: 4.JUN.2018 13:32:43



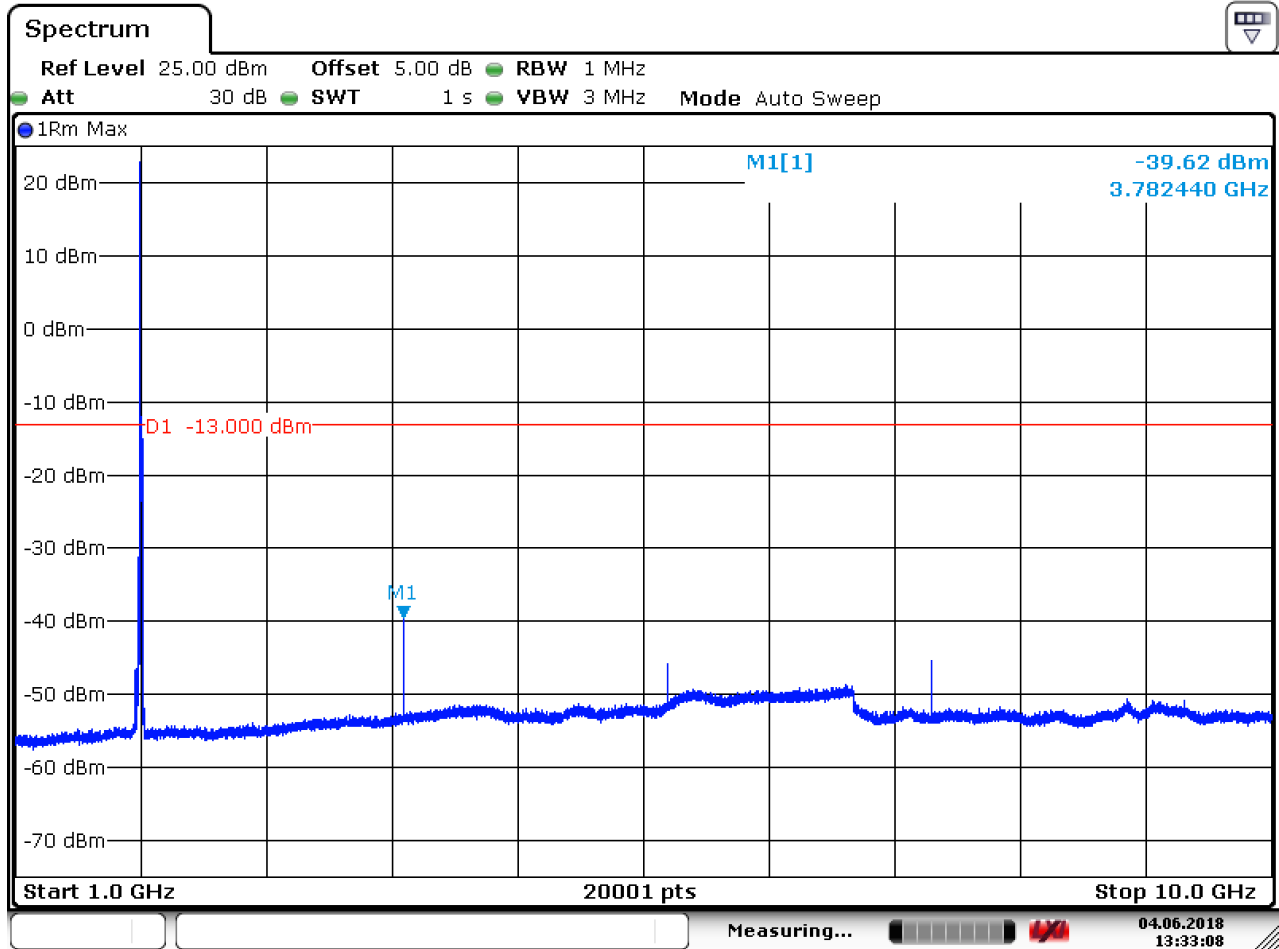
Date: 4.JUN.2018 13:33:48



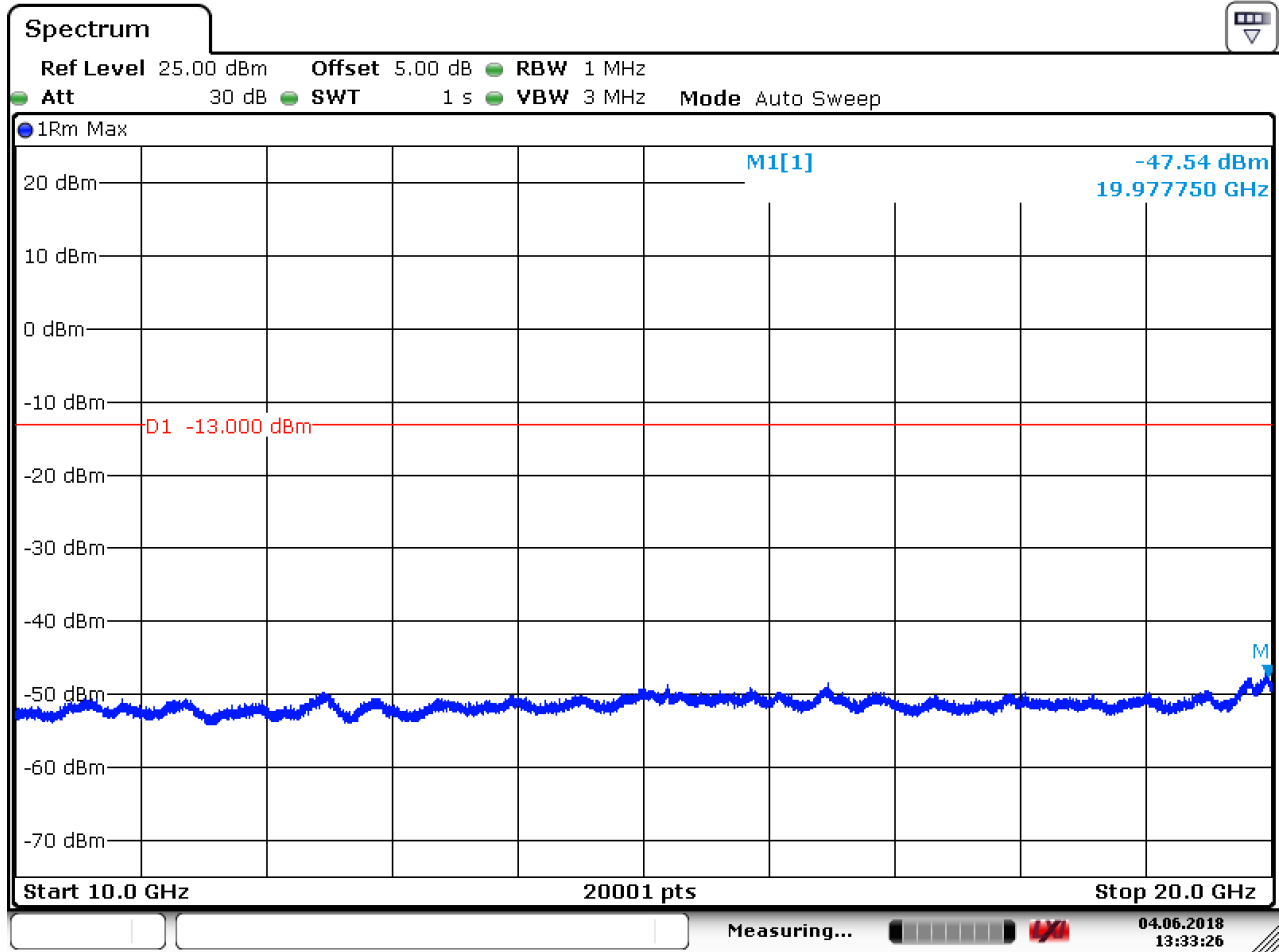
6.1.1.1.3 Test Channel = HCH



Date: 4.JUN.2018 13:30:01



Date: 4.JUN.2018 13:33:09



Date: 4.JUN.2018 13:33:26



7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band2

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

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
56.050000	-71.60	-13.00	58.60	Vertical
308.850000	-72.69	-13.00	59.69	Vertical
3702.000000	-65.92	-13.00	52.92	Vertical
5553.200000	-47.81	-13.00	34.81	Vertical
7404.400000	-58.63	-13.00	45.63	Vertical
9255.275000	-56.06	-13.00	43.06	Vertical
63.250000	-77.12	-13.00	64.12	Horizontal
284.150000	-75.26	-13.00	62.26	Horizontal
594.008333	-75.85	-13.00	62.85	Horizontal
3702.000000	-68.47	-13.00	55.47	Horizontal
5553.200000	-48.17	-13.00	35.17	Horizontal
7404.400000	-60.20	-13.00	47.20	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
73.650000	-77.32	-13.00	64.32	Vertical
297.600000	-71.23	-13.00	58.23	Vertical
3741.975000	-66.03	-13.00	53.03	Vertical
5613.000000	-51.20	-13.00	38.20	Vertical
7484.350000	-60.56	-13.00	47.56	Vertical
9355.375000	-62.04	-13.00	49.04	Vertical
62.250000	-77.47	-13.00	64.47	Horizontal
290.900000	-77.18	-13.00	64.18	Horizontal
378.000000	-75.00	-13.00	62.00	Horizontal
3741.975000	-67.83	-13.00	54.83	Horizontal
5613.325000	-50.56	-13.00	37.56	Horizontal
7484.350000	-60.79	-13.00	47.79	Horizontal



7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
39.800000	-78.50	-13.00	65.50	Vertical
65.450000	-77.02	-13.00	64.02	Vertical
308.800000	-72.00	-13.00	59.00	Vertical
3782.275000	-66.70	-13.00	53.70	Vertical
5673.125000	-49.71	-13.00	36.71	Vertical
7564.300000	-61.03	-13.00	48.03	Vertical
62.950000	-77.18	-13.00	64.18	Horizontal
287.550000	-76.24	-13.00	63.24	Horizontal
594.008333	-75.96	-13.00	62.96	Horizontal
3782.275000	-68.20	-13.00	55.20	Horizontal
5673.125000	-49.42	-13.00	36.42	Horizontal
7564.300000	-61.08	-13.00	48.08	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.



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
LTEband2	LTE/TM1 20MHz	LCH	TN	VL	1.23	0.00066	PASS
				VN	0.69	0.00037	PASS
				VH	-4.24	-0.00228	PASS
		MCH	TN	VL	-9.67	-0.00514	PASS
				VN	8.13	0.00432	PASS
				VH	0.49	0.00026	PASS
		HCH	TN	VL	7.74	0.00407	PASS
				VN	2.20	0.00116	PASS
				VH	-4.18	-0.00220	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-3.04	-0.00164	PASS
				VN	-3.91	-0.00210	PASS
				VH	7.70	0.00414	PASS
		MCH	TN	VL	4.77	0.00254	PASS
				VN	4.01	0.00213	PASS
				VH	4.71	0.00251	PASS
		HCH	TN	VL	7.50	0.00395	PASS
				VN	-5.76	-0.00303	PASS
				VH	-5.48	-0.00289	PASS

8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband2	LTE/TM1 20MHz	LCH	VN	-30	7.67	0.00412	PASS
				-20	-1.44	-0.00077	PASS
				-10	7.18	0.00386	PASS
				0	3.87	0.00208	PASS
				10	-3.32	-0.00178	PASS
				20	-0.82	-0.00044	PASS
				30	-0.28	-0.00015	PASS
				40	-0.59	-0.00032	PASS
				50	4.95	0.00266	PASS
		MCH	VN	-30	1.15	0.00061	PASS
				-20	1.21	0.00064	PASS
				-10	-9.87	-0.00525	PASS
				0	1.41	0.00075	PASS
				10	-0.68	-0.00036	PASS
				20	-1.01	-0.00054	PASS
				30	7.10	0.00378	PASS
				40	5.19	0.00276	PASS
				50	8.17	0.00434	PASS
		HCH	VN	-30	-8.86	-0.00466	PASS
				-20	1.48	0.00078	PASS
				-10	-2.93	-0.00154	PASS
				0	-9.38	-0.00494	PASS
				10	-2.32	-0.00122	PASS
				20	-0.57	-0.00030	PASS
30	3.61			0.00190	PASS		
40	-3.97			-0.00209	PASS		
50	5.35			0.00282	PASS		



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Shenzhen Branch**

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband2	LTE/TM2 20MHz	LCH	VN	-30	-8.71	-0.00468	PASS
				-20	7.49	0.00403	PASS
				-10	8.84	0.00475	PASS
				0	-9.58	-0.00515	PASS
				10	1.65	0.00089	PASS
				20	0.78	0.00042	PASS
				30	5.86	0.00315	PASS
				40	-3.89	-0.00209	PASS
		MCH	VN	-30	9.03	0.00480	PASS
				-20	-0.33	-0.00017	PASS
				-10	-1.85	-0.00098	PASS
				0	7.03	0.00374	PASS
				10	0.11	0.00006	PASS
				20	0.79	0.00042	PASS
				30	7.04	0.00374	PASS
				40	-6.04	-0.00321	PASS
		HCH	VN	-30	2.12	0.00112	PASS
				-20	9.36	0.00493	PASS
				-10	9.96	0.00524	PASS
				0	6.78	0.00357	PASS
				10	-1.08	-0.00057	PASS
				20	9.83	0.00518	PASS
				30	0.97	0.00051	PASS
				40	-6.85	-0.00360	PASS
			50	-7.53	-0.00397	PASS	

The End