Appendix B

E-UTRA Band 26(814-824)

CONTENT

Page

1 Effective (Isotropic) Radiated Power Output Data

Effective Radiated Power of Transmitter (ERP) for LTE BAND 26(814-824)

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM1	1.4M	LCH	RB1#0	23.08	22.06	50.00	PASS
				RB1#2	23.18	22.16	50.00	PASS
				RB1#5	23.01	21.99	50.00	PASS
				RB3#0	23.25	22.23	50.00	PASS
				RB3#2	23.27	22.25	50.00	PASS
				RB3#3	23.22	22.20	50.00	PASS
				RB6#0	22.20	21.18	50.00	PASS
			MCH	RB1#0	23.07	22.05	50.00	PASS
				RB1#2	23.20	22.18	50.00	PASS
				RB1#5	23.05	22.03	50.00	PASS
				RB3#0	23.11	22.09	50.00	PASS
				RB3#2	23.15	22.13	50.00	PASS
				RB3#3	23.06	22.04	50.00	PASS
				RB6#0	22.18	21.16	50.00	PASS
			HCH	RB1#0	23.09	22.07	50.00	PASS
				RB1#2	23.16	22.14	50.00	PASS
				RB1#5	23.06	22.04	50.00	PASS
				RB3#0	23.11	22.09	50.00	PASS
				RB3#2	23.13	22.11	50.00	PASS
				RB3#3	23.05	22.03	50.00	PASS
				RB6#0	22.25	21.23	50.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM2	1.4M	LCH	RB1#0	22.47	21.45	50.00	PASS
				RB1#2	22.43	21.41	50.00	PASS
				RB1#5	22.47	21.45	50.00	PASS
				RB3#0	22.51	21.49	50.00	PASS
				RB3#2	22.52	21.50	50.00	PASS
				RB3#3	22.45	21.43	50.00	PASS
				RB6#0	21.14	20.12	50.00	PASS
			MCH	RB1#0	22.59	21.57	50.00	PASS
				RB1#2	22.43	21.41	50.00	PASS
				RB1#5	22.44	21.42	50.00	PASS
				RB3#0	22.36	21.34	50.00	PASS
				RB3#2	22.43	21.41	50.00	PASS
				RB3#3	22.40	21.38	50.00	PASS
				RB6#0	21.19	20.17	50.00	PASS
			HCH	RB1#0	22.49	21.47	50.00	PASS
				RB1#2	22.40	21.38	50.00	PASS
				RB1#5	22.52	21.50	50.00	PASS
				RB3#0	22.37	21.35	50.00	PASS
				RB3#2	22.43	21.41	50.00	PASS
				RB3#3	22.45	21.43	50.00	PASS
				RB6#0	21.24	20.22	50.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM1	3M	LCH	RB1#0	23.30	22.28	50.00	PASS
				RB1#7	23.38	22.36	50.00	PASS
				RB1#14	23.32	22.30	50.00	PASS
				RB8#0	22.28	21.26	50.00	PASS
				RB8#4	22.24	21.22	50.00	PASS
				RB8#7	22.29	21.27	50.00	PASS
				RB15#0	22.37	21.35	50.00	PASS
			MCH	RB1#0	23.32	22.30	50.00	PASS
				RB1#7	23.30	22.28	50.00	PASS
				RB1#14	23.22	22.20	50.00	PASS
				RB8#0	22.36	21.34	50.00	PASS
				RB8#4	22.24	21.22	50.00	PASS
				RB8#7	22.23	21.21	50.00	PASS
				RB15#0	22.28	21.26	50.00	PASS
			HCH	RB1#0	23.28	22.26	50.00	PASS
				RB1#7	23.30	22.28	50.00	PASS
				RB1#14	23.18	22.16	50.00	PASS
				RB8#0	22.34	21.32	50.00	PASS
				RB8#4	22.27	21.25	50.00	PASS
				RB8#7	22.24	21.22	50.00	PASS
				RB15#0	22.27	21.25	50.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM2	3M	LCH	RB1#0	22.56	21.54	50.00	PASS
				RB1#7	22.52	21.50	50.00	PASS
				RB1#14	22.64	21.62	50.00	PASS
				RB8#0	21.49	20.47	50.00	PASS
				RB8#4	21.44	20.42	50.00	PASS
				RB8#7	21.53	20.51	50.00	PASS
				RB15#0	21.43	20.41	50.00	PASS
			MCH	RB1#0	22.58	21.56	50.00	PASS
				RB1#7	22.51	21.49	50.00	PASS
				RB1#14	22.53	21.51	50.00	PASS
				RB8#0	21.46	20.44	50.00	PASS
				RB8#4	21.43	20.41	50.00	PASS
				RB8#7	21.45	20.43	50.00	PASS
				RB15#0	21.37	20.35	50.00	PASS
			HCH	RB1#0	22.64	21.62	50.00	PASS
				RB1#7	22.52	21.50	50.00	PASS
				RB1#14	22.53	21.51	50.00	PASS
				RB8#0	21.46	20.44	50.00	PASS
				RB8#4	21.41	20.39	50.00	PASS
				RB8#7	21.40	20.38	50.00	PASS
				RB15#0	21.33	20.31	50.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM1	5M	LCH	RB1#0	23.23	22.21	50.00	PASS
				RB1#13	23.06	22.04	50.00	PASS
				RB1#24	23.17	22.15	50.00	PASS
				RB12#0	22.28	21.26	50.00	PASS
				RB12#6	22.19	21.17	50.00	PASS
				RB12#13	22.19	21.17	50.00	PASS
				RB25#0	22.23	21.21	50.00	PASS
			MCH	RB1#0	23.03	22.01	50.00	PASS
				RB1#13	22.99	21.97	50.00	PASS
				RB1#24	22.97	21.95	50.00	PASS
				RB12#0	22.33	21.31	50.00	PASS
				RB12#6	22.18	21.16	50.00	PASS
				RB12#13	22.15	21.13	50.00	PASS
				RB25#0	22.23	21.21	50.00	PASS
			HCH	RB1#0	23.05	22.03	50.00	PASS
				RB1#13	23.01	21.99	50.00	PASS
				RB1#24	22.97	21.95	50.00	PASS
				RB12#0	22.30	21.28	50.00	PASS
				RB12#6	22.24	21.22	50.00	PASS
				RB12#13	22.22	21.20	50.00	PASS
				RB25#0	22.20	21.18	50.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM2	5M	LCH	RB1#0	22.68	21.66	50.00	PASS
				RB1#13	22.01	20.99	50.00	PASS
				RB1#24	22.42	21.40	50.00	PASS
				RB12#0	21.42	20.40	50.00	PASS
				RB12#6	21.17	20.15	50.00	PASS
				RB12#13	21.18	20.16	50.00	PASS
				RB25#0	21.20	20.18	50.00	PASS
			MCH	RB1#0	22.56	21.54	50.00	PASS
				RB1#13	22.07	21.05	50.00	PASS
				RB1#24	22.41	21.39	50.00	PASS
				RB12#0	21.38	20.36	50.00	PASS
				RB12#6	21.27	20.25	50.00	PASS
				RB12#13	21.26	20.24	50.00	PASS
				RB25#0	21.30	20.28	50.00	PASS
			HCH	RB1#0	22.66	21.64	50.00	PASS
				RB1#13	22.14	21.12	50.00	PASS
				RB1#24	22.42	21.40	50.00	PASS
				RB12#0	21.39	20.37	50.00	PASS
				RB12#6	21.27	20.25	50.00	PASS
				RB12#13	21.26	20.24	50.00	PASS
				RB25#0	21.23	20.21	50.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM1	10M	MCH	RB1#0	23.23	22.21	50.00	PASS
				RB1#25	23.21	22.19	50.00	PASS
				RB1#49	23.32	22.30	50.00	PASS
				RB25#0	22.22	21.20	50.00	PASS
				RB25#13	22.19	21.17	50.00	PASS
				RB25#25	22.16	21.14	50.00	PASS
				RB50#0	22.22	21.20	50.00	PASS
	LTE/TM2	10M	MCH	RB1#0	22.54	21.52	50.00	PASS
				RB1#25	22.24	21.22	50.00	PASS
				RB1#49	22.17	21.15	50.00	PASS
				RB25#0	21.30	20.28	50.00	PASS
				RB25#13	21.23	20.21	50.00	PASS
				RB25#25	21.24	20.22	50.00	PASS
				RB50#0	21.23	20.21	50.00	PASS

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

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

b: SGP=Signal Generator Level
c: RBW > emission bandwidth, VBW > 3 x RBW.
Detector: RMS

2 Peak-to-Average Ratio

Part Ⅰ - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band 26(814-824)	TM1/10M	LCH	\	13	PASS
		MCH	4.75	13	PASS
		HCH	\	13	PASS
	TM2/10M	LCH	\	13	PASS
		MCH	5.45	13	PASS
		HCH	\	13	PASS

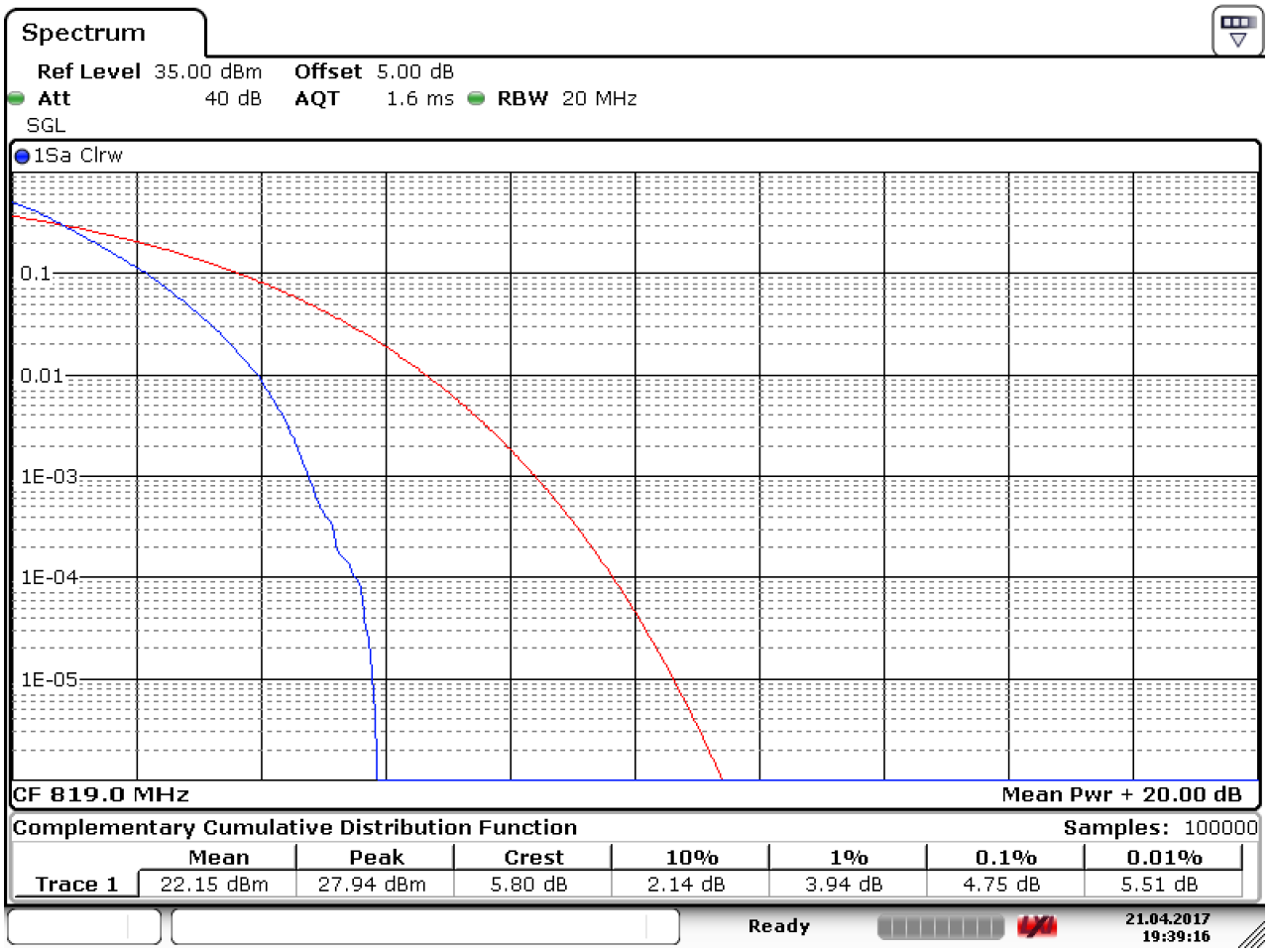
Part Ⅱ - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band26(814-824)

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=10MHz

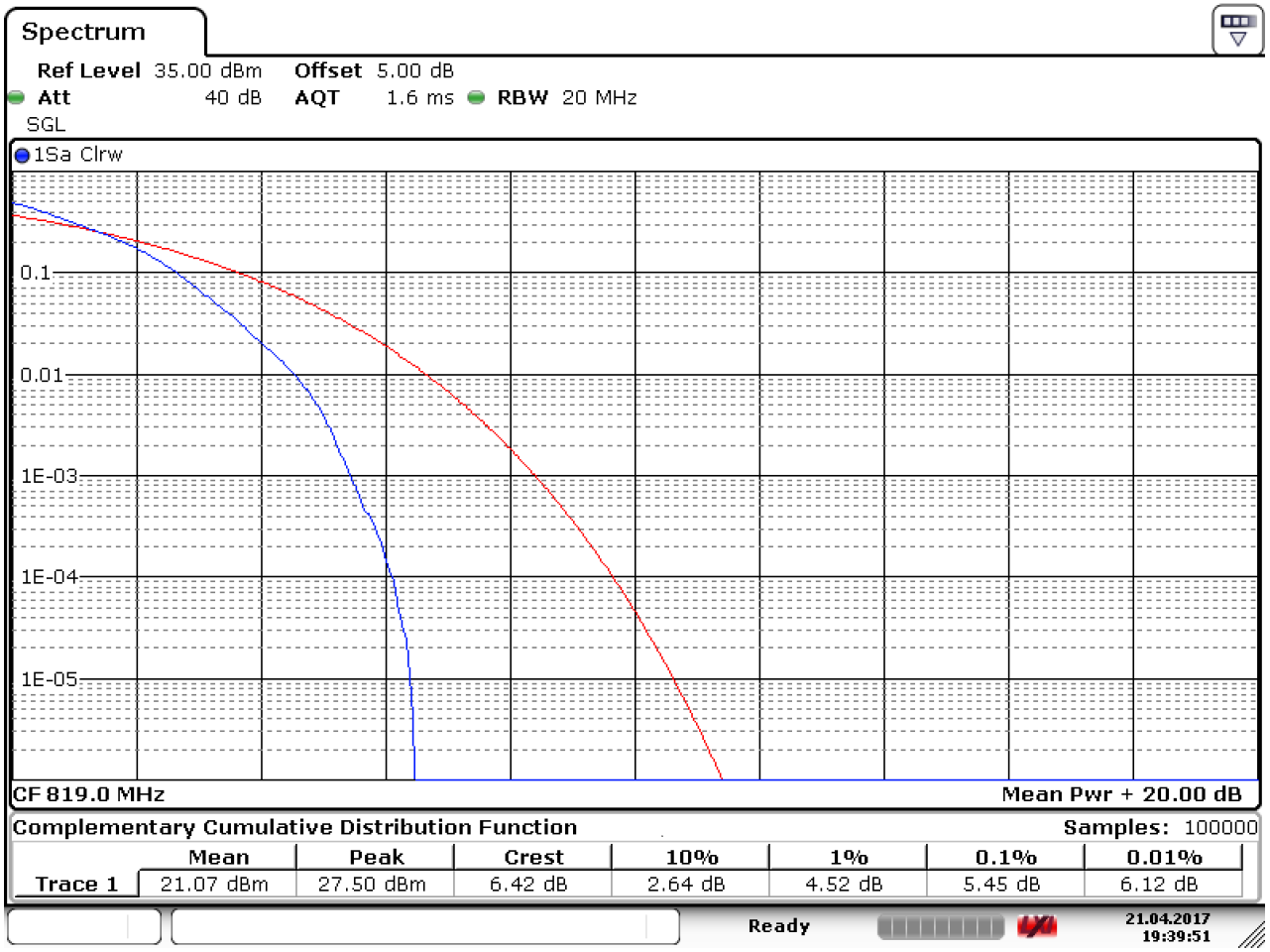
2.1.1.1.1 Test Channel = MCH



Date: 21.APR.2017 19:39:17

2.1.1.2 Test Mode = LTE/TM2.Bandwidth=10MHz

2.1.1.2.1 Test Channel = MCH



Date: 21.APR.2017 19:39:52

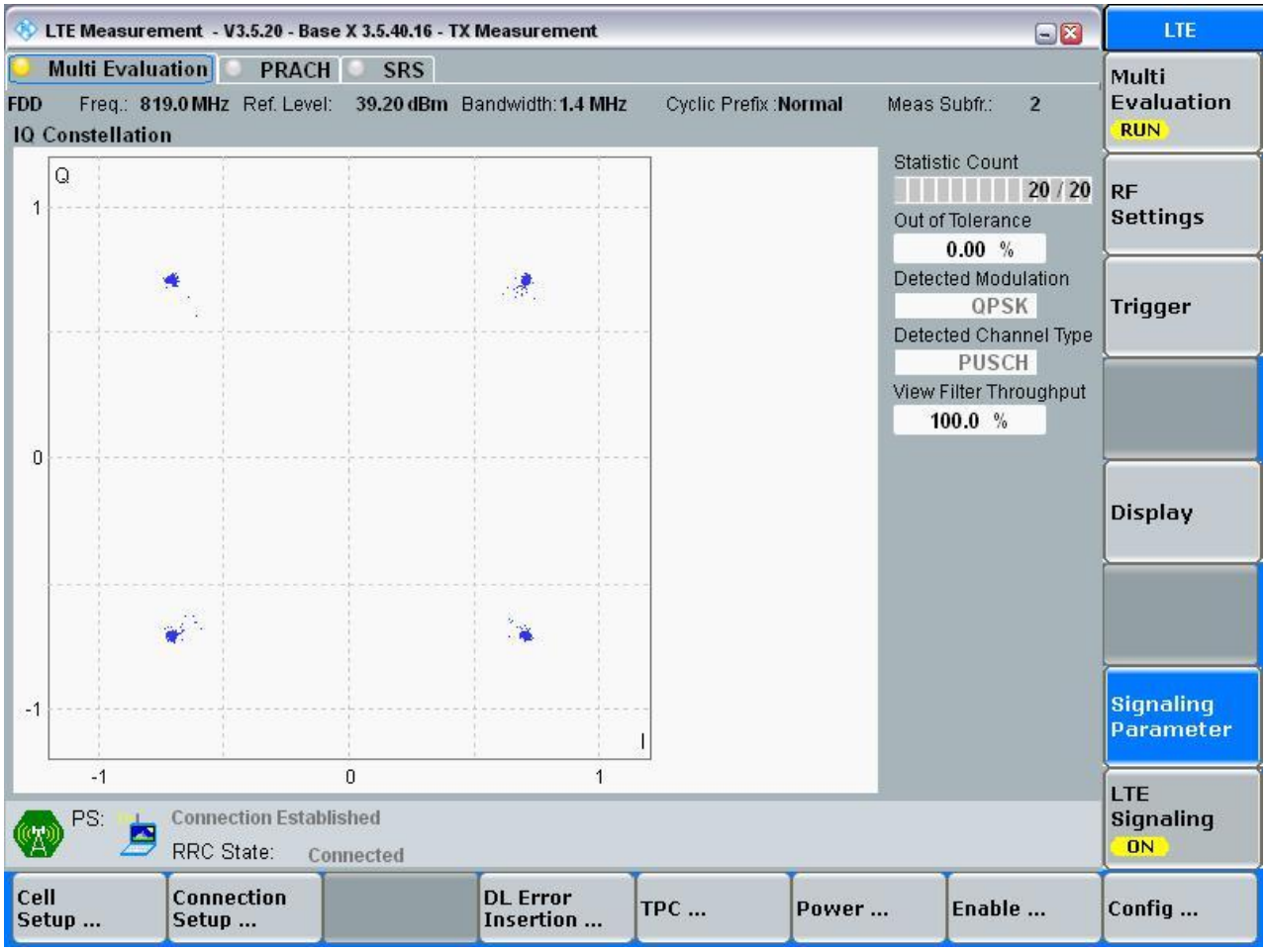
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE band26(814-824)

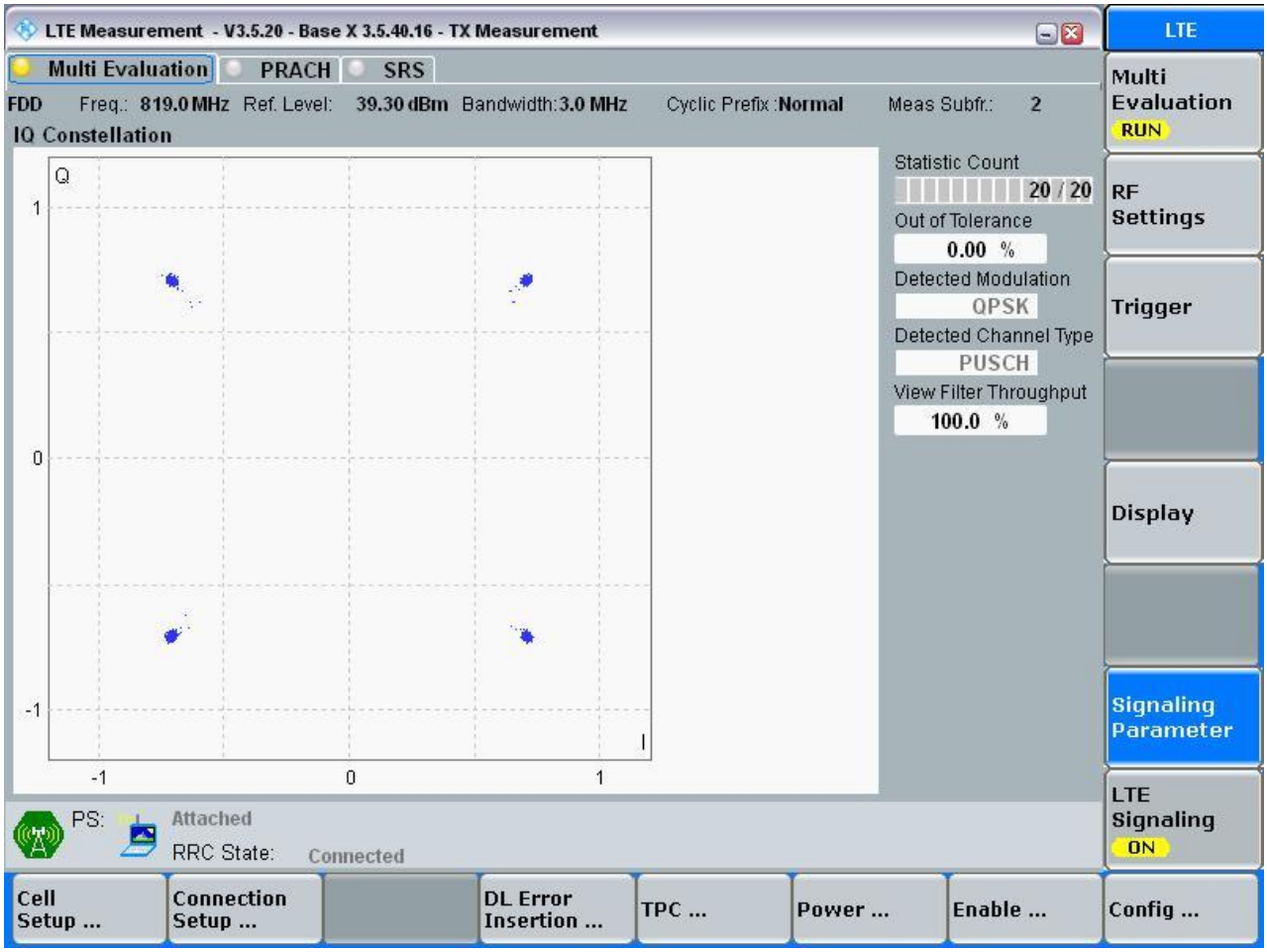
3.1.1.1 Test Mode = LTE /TM1 1.4MHz

3.1.1.1.1 Test Channel = MCH



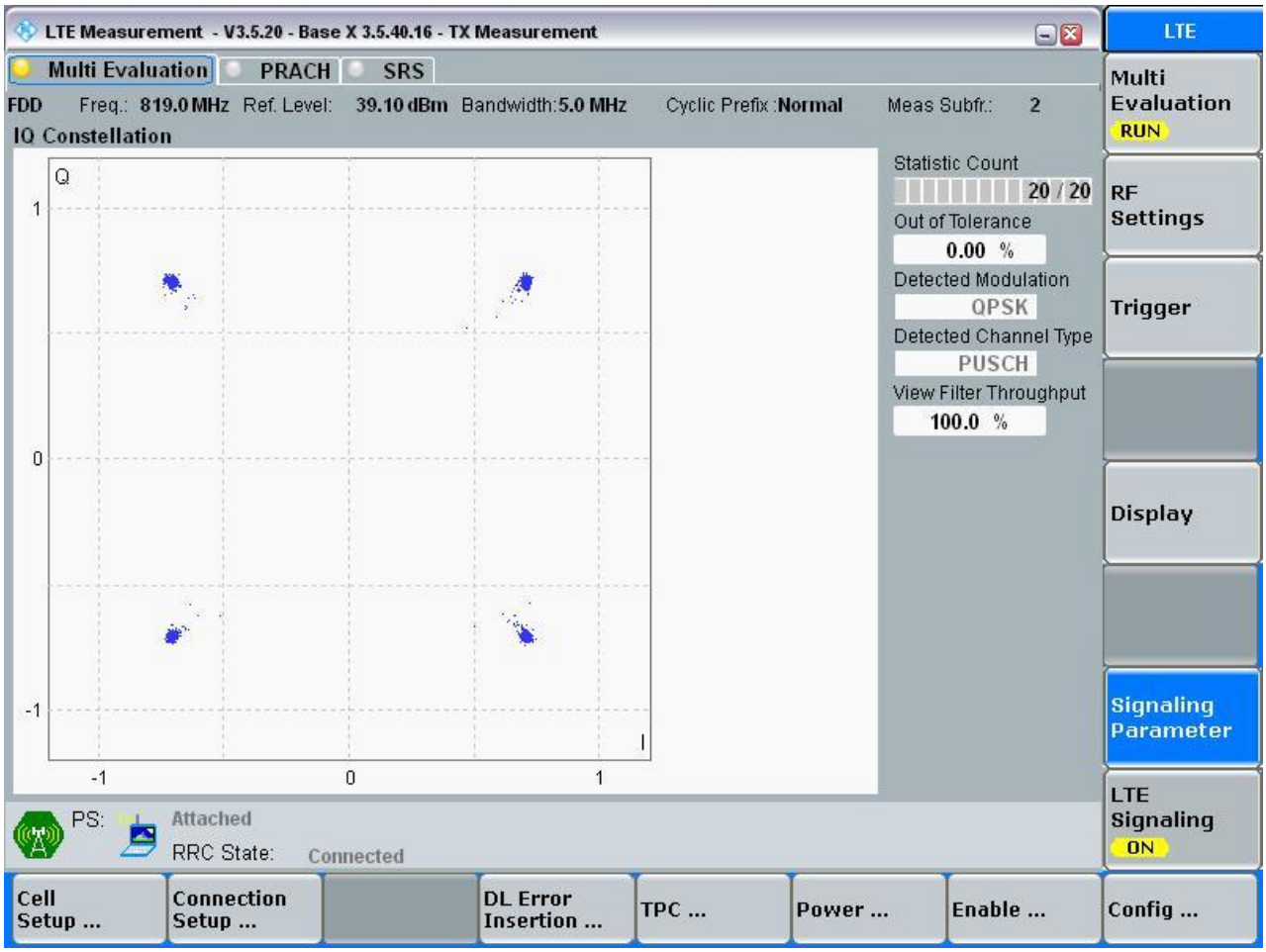
3.1.1.2 Test Mode = LTE /TM1 3MHz

3.1.1.2.1 Test Channel = MCH



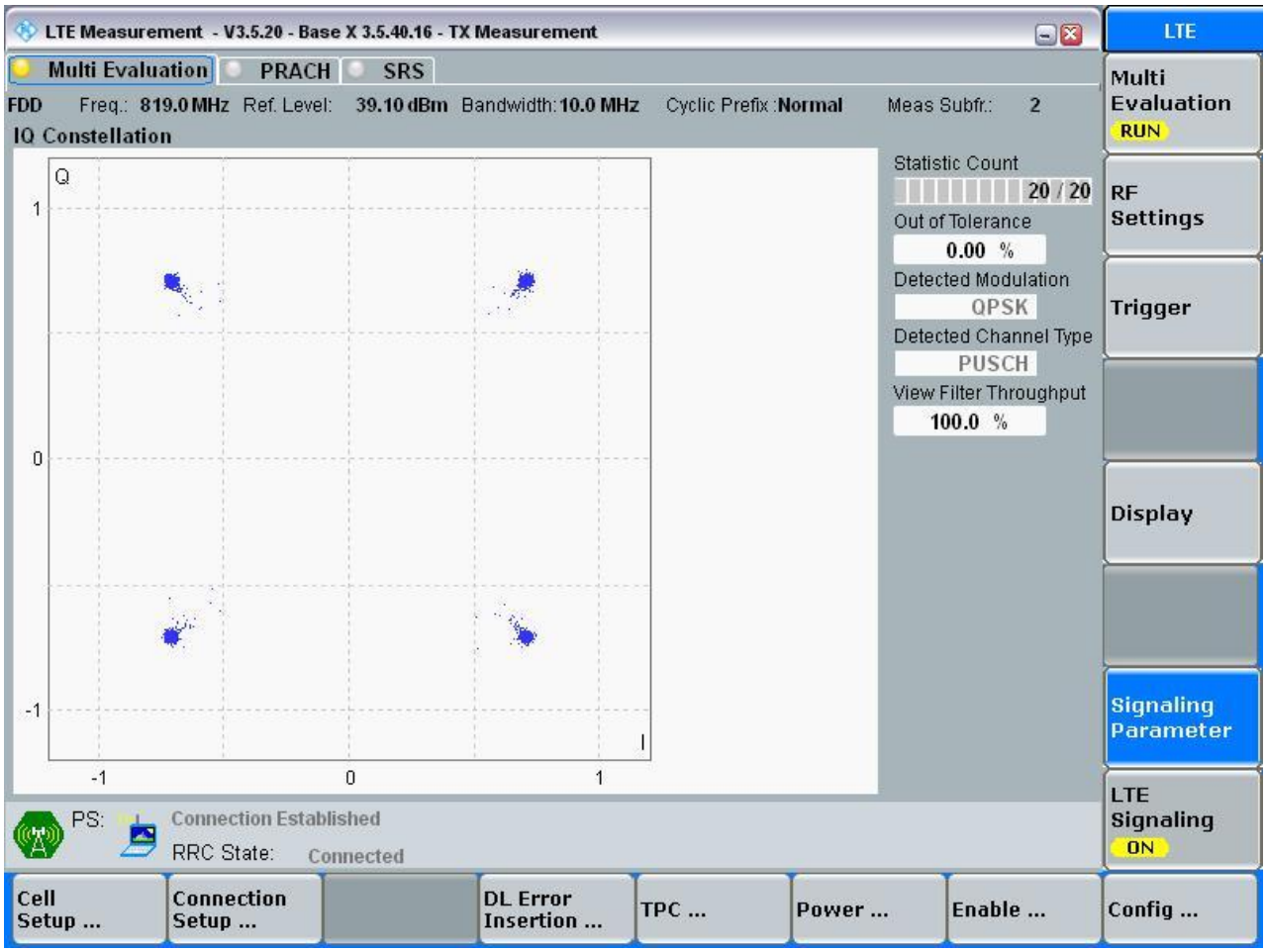
3.1.1.3 Test Mode = LTE /TM1 5MHz

3.1.1.3.1 Test Channel = MCH



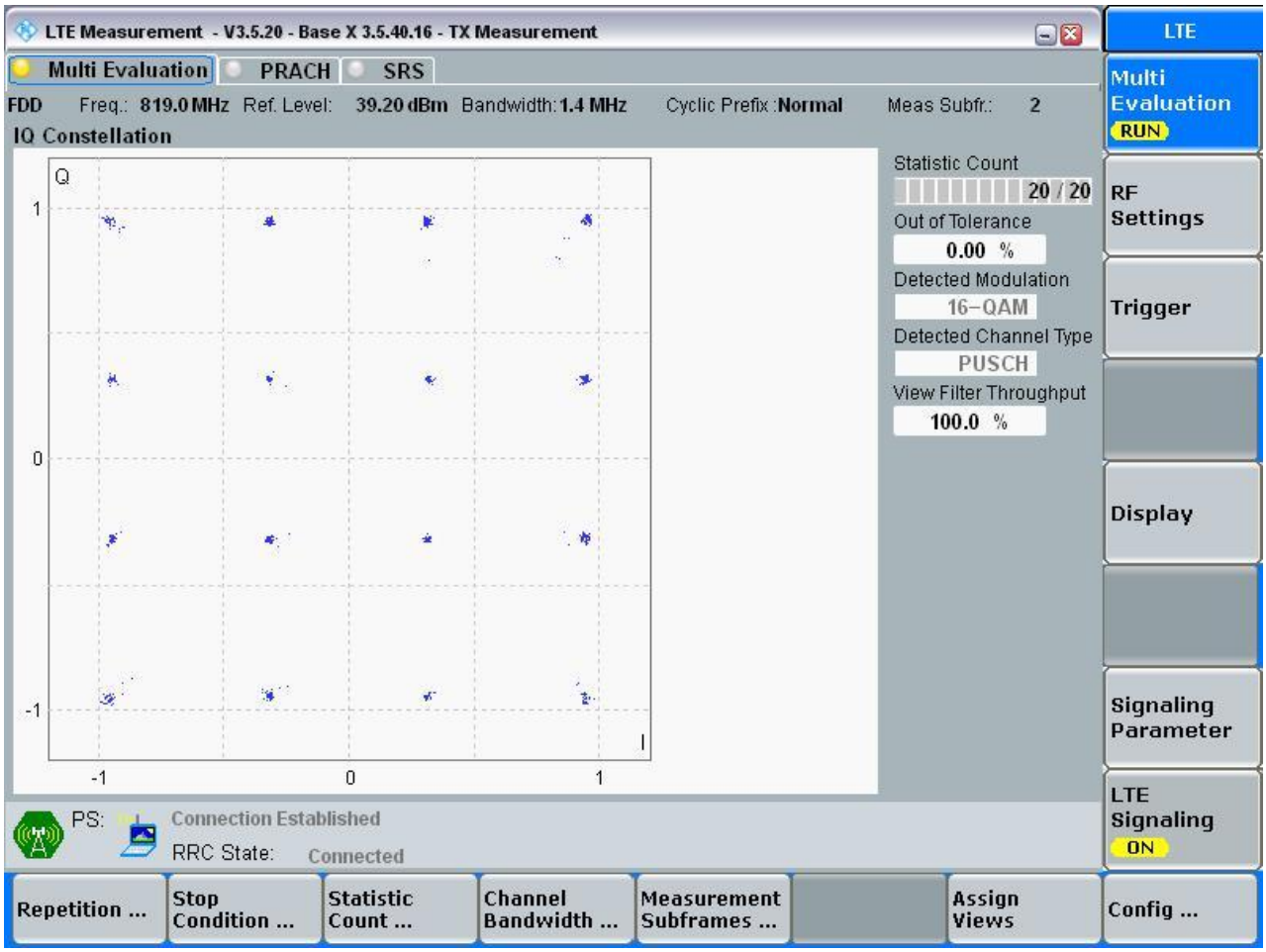
3.1.1.4 Test Mode = LTE /TM1 10MHz

3.1.1.4.1 Test Channel = MCH



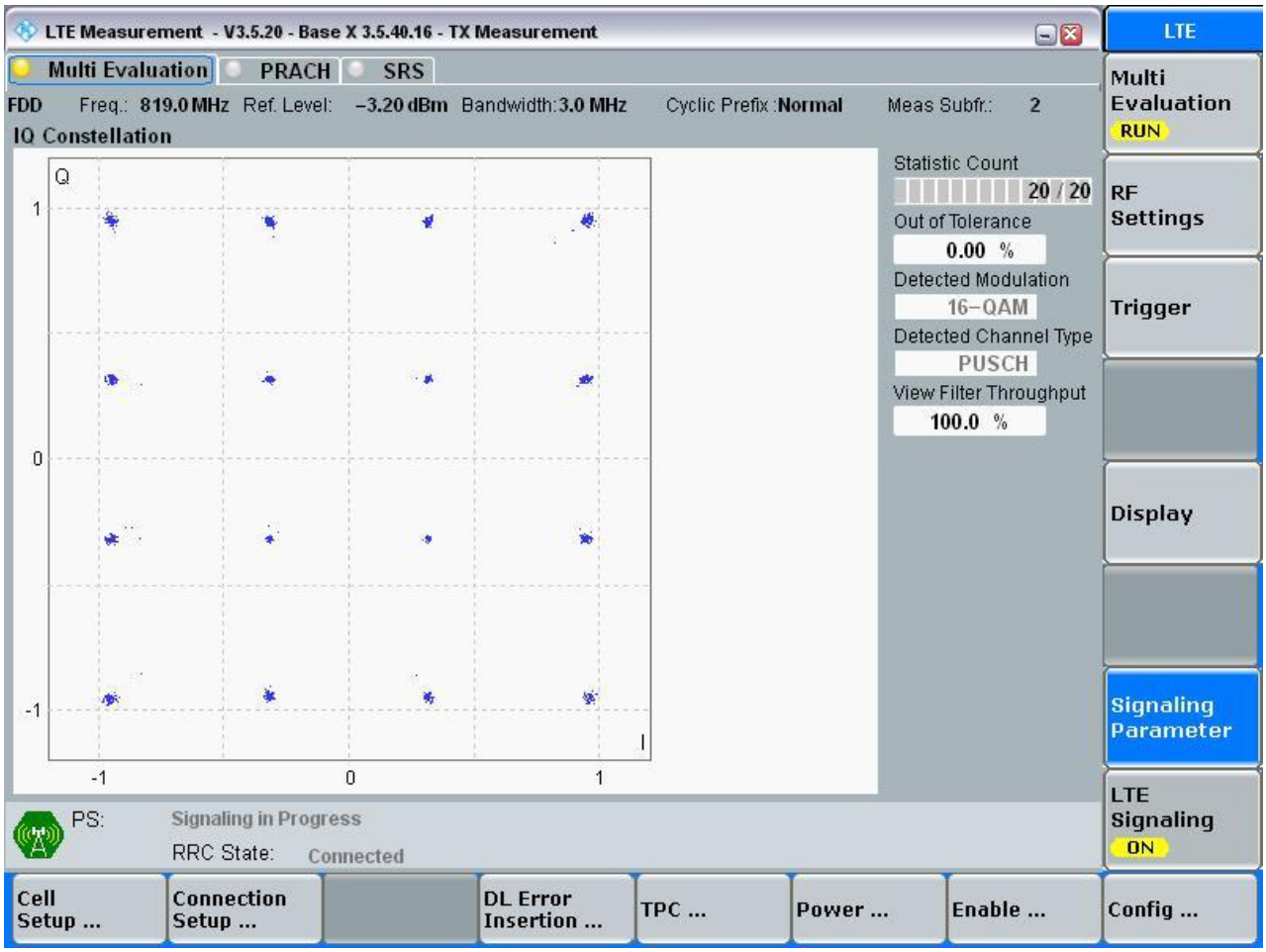
3.1.1.5 Test Mode = LTE /TM2 1.4MHz

3.1.1.5.1 Test Channel = MCH



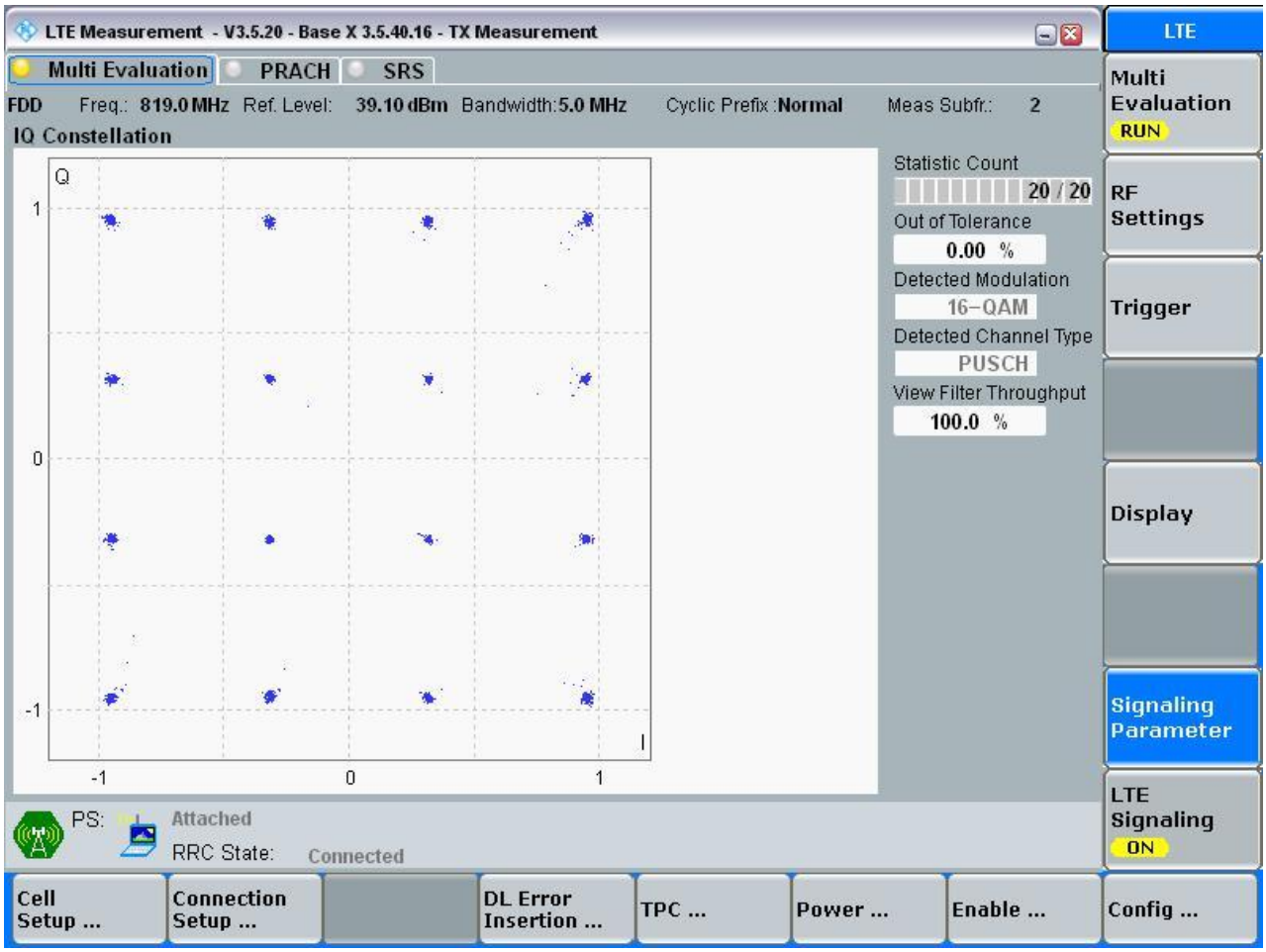
3.1.1.6 Test Mode = LTE /TM2 3MHz

3.1.1.6.1 Test Channel = MCH



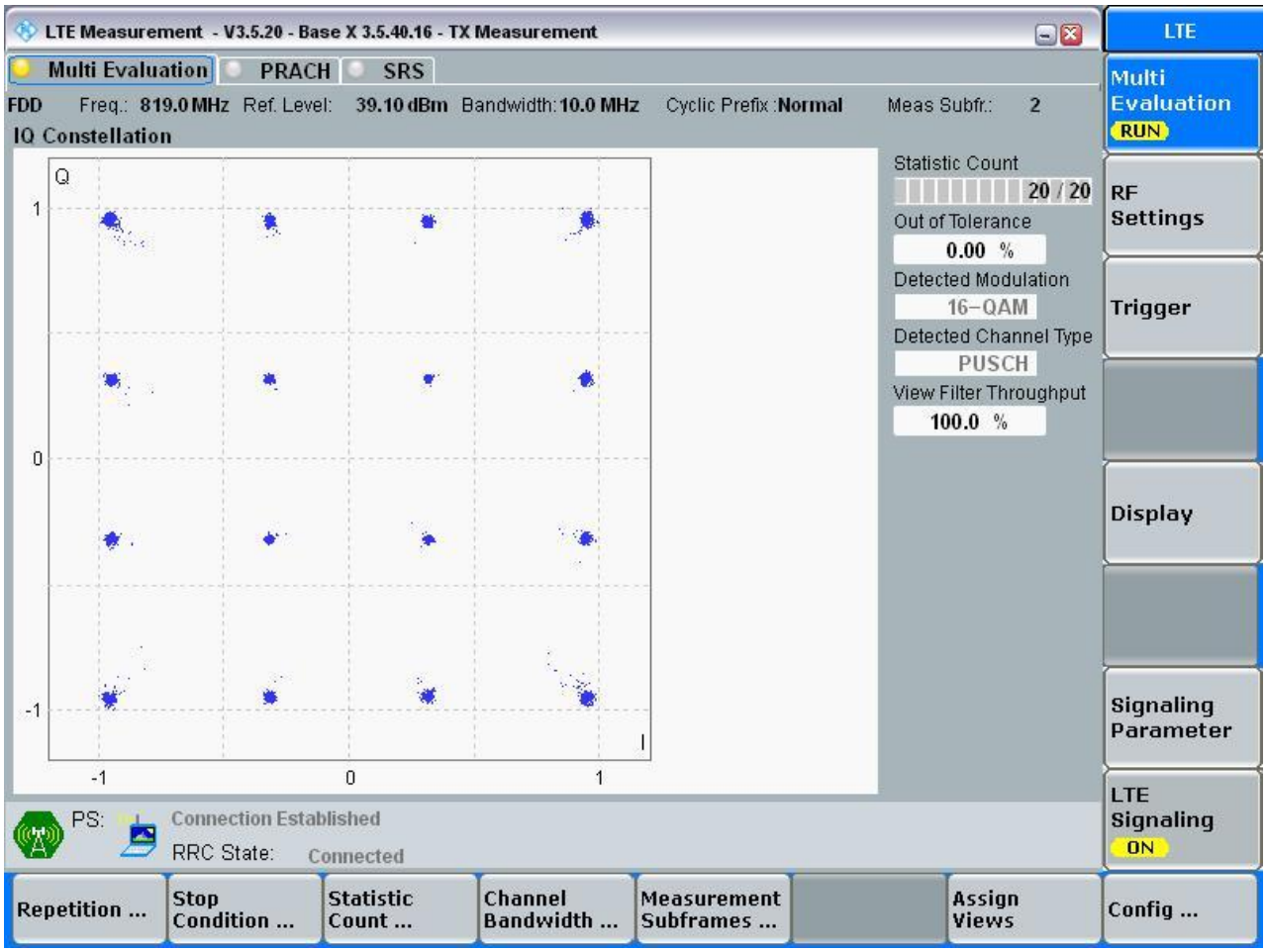
3.1.1.7 Test Mode = LTE /TM2 5MHz

3.1.1.7.1 Test Channel = MCH



3.1.1.8 Test Mode = LTE /TM2 10MHz

3.1.1.8.1 Test Channel = MCH



4 Bandwidth

Part Ⅰ - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band26 (814-824)	TM1/1.4MHz	LCH	1.10	1.36	PASS
		MCH	1.11	1.32	PASS
		HCH	1.10	1.33	PASS
	TM2/1.4MHz	LCH	1.10	1.31	PASS
		MCH	1.10	1.33	PASS
		HCH	1.10	1.33	PASS
	TM1/ 3MHz	LCH	2.69	2.97	PASS
		MCH	2.69	2.96	PASS
		HCH	2.69	2.93	PASS
	TM2/3MHz	LCH	2.69	2.97	PASS
		MCH	2.69	2.94	PASS
		HCH	2.69	2.93	PASS
	TM1/ 5MHz	LCH	4.50	4.98	PASS
		MCH	4.50	4.98	PASS
		HCH	4.48	4.94	PASS
	TM2/ 5MHz	LCH	4.50	4.95	PASS
		MCH	4.49	4.95	PASS
		HCH	4.49	4.95	PASS
	TM1/10MHz	LCH	\	\	PASS
		MCH	8.99	9.89	PASS
		HCH	\	\	PASS
	TM2/ 10MHz	LCH	\	\	PASS
		MCH	8.97	9.69	PASS
		HCH	\	\	PASS

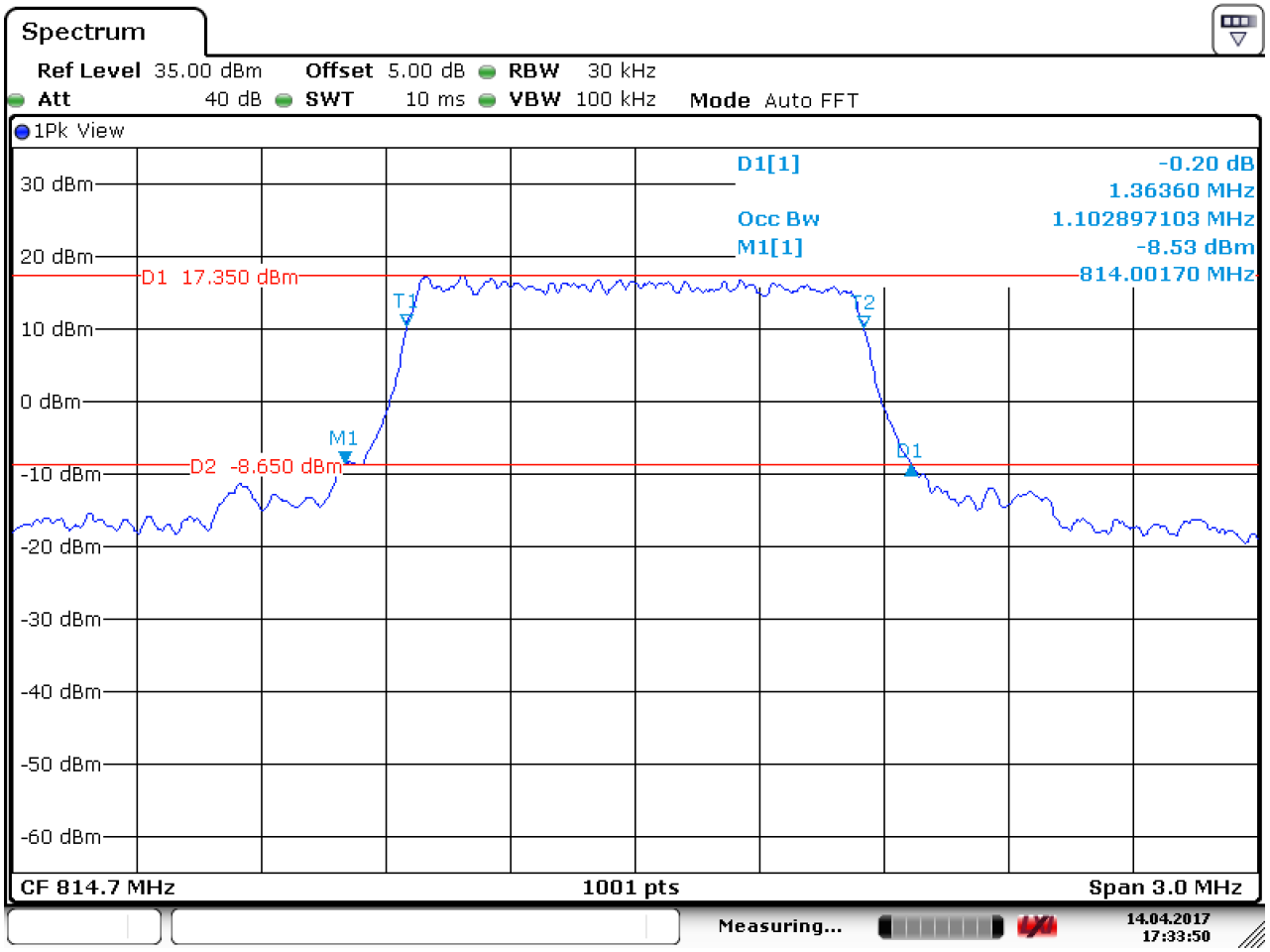
Part Ⅱ –Test Plots

4.1 For LTE

4.1.1 Test Band = LTE band26(814-824)

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

4.1.1.1.1 Test Channel = LCH



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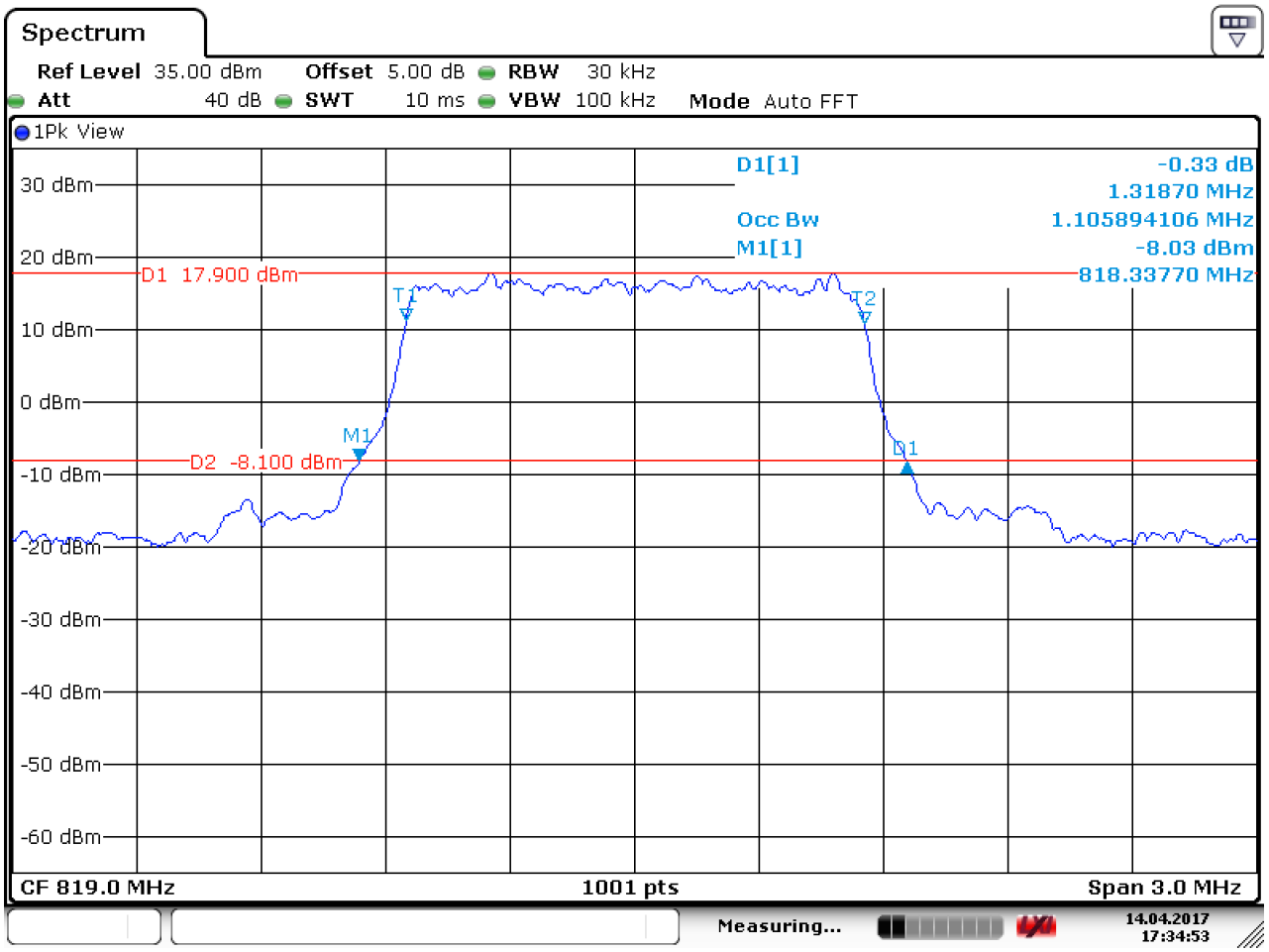
4.1.1.1.2 Test Channel = MCH



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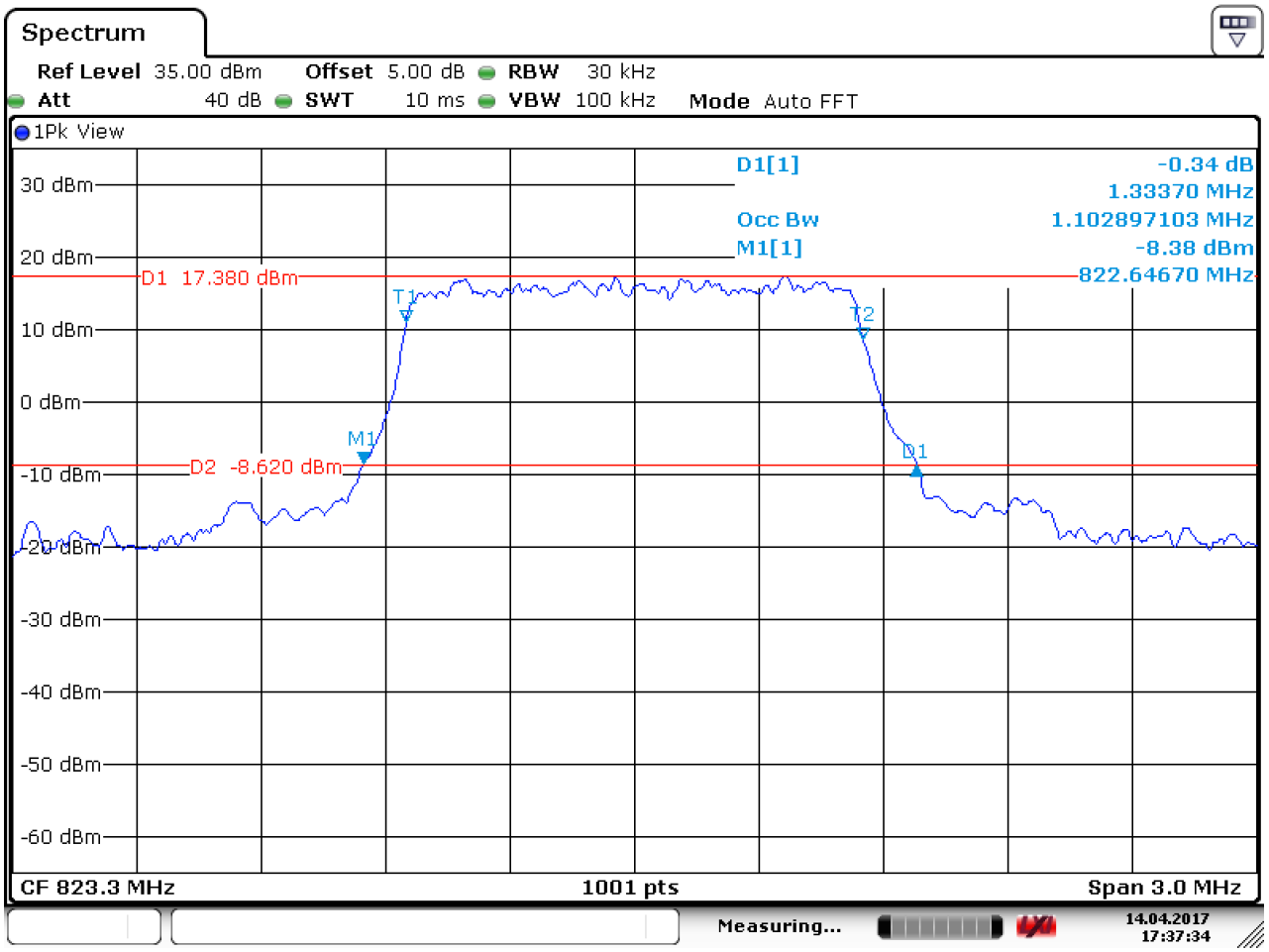
4.1.1.1.3 Test Channel = HCH



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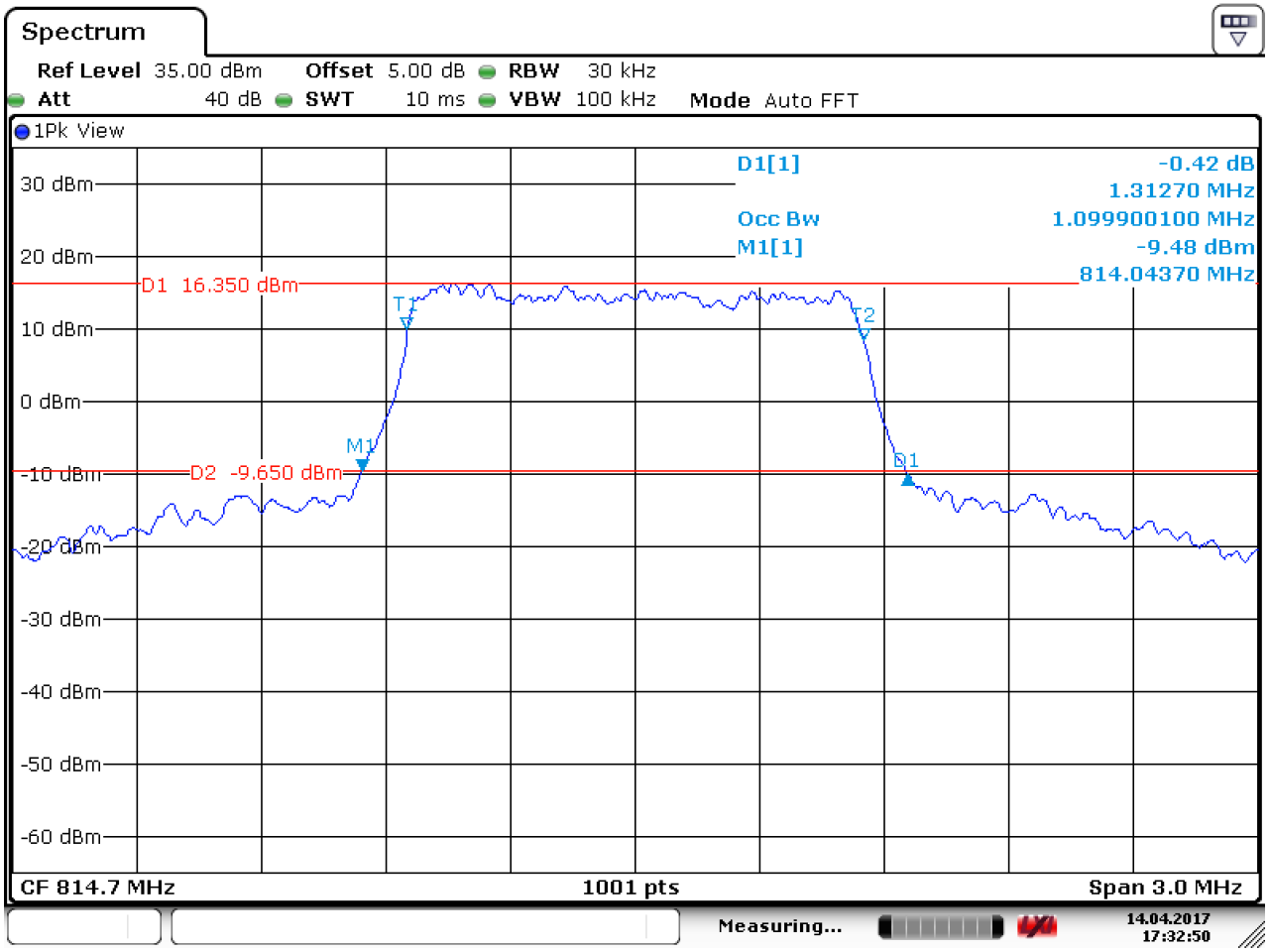
4.1.1.2 Test Mode = LTE/TM2 1.4MHz

4.1.1.2.1 Test Channel = LCH



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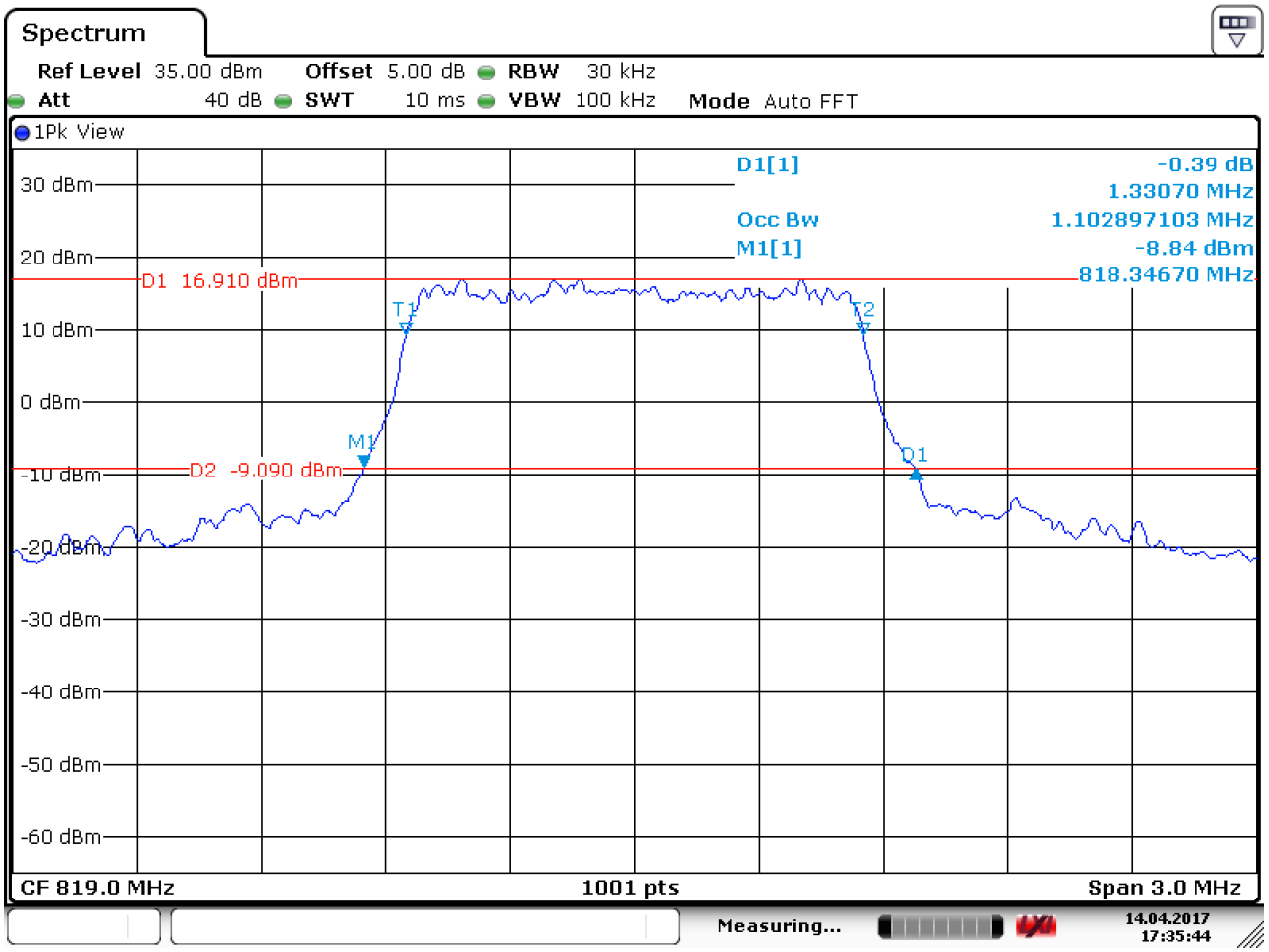
4.1.1.2.2 Test Channel = MCH



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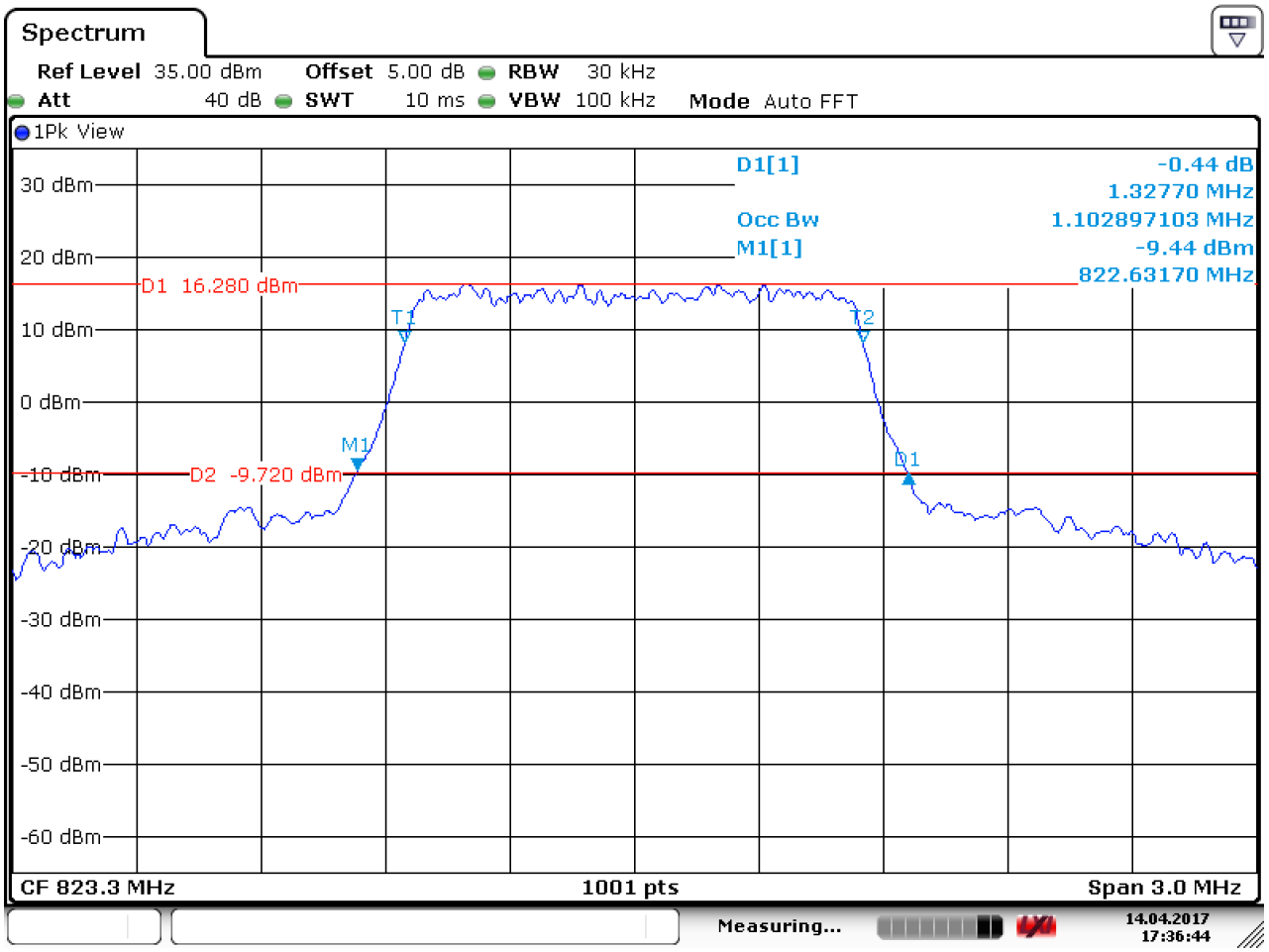
4.1.1.2.3 Test Channel = HCH



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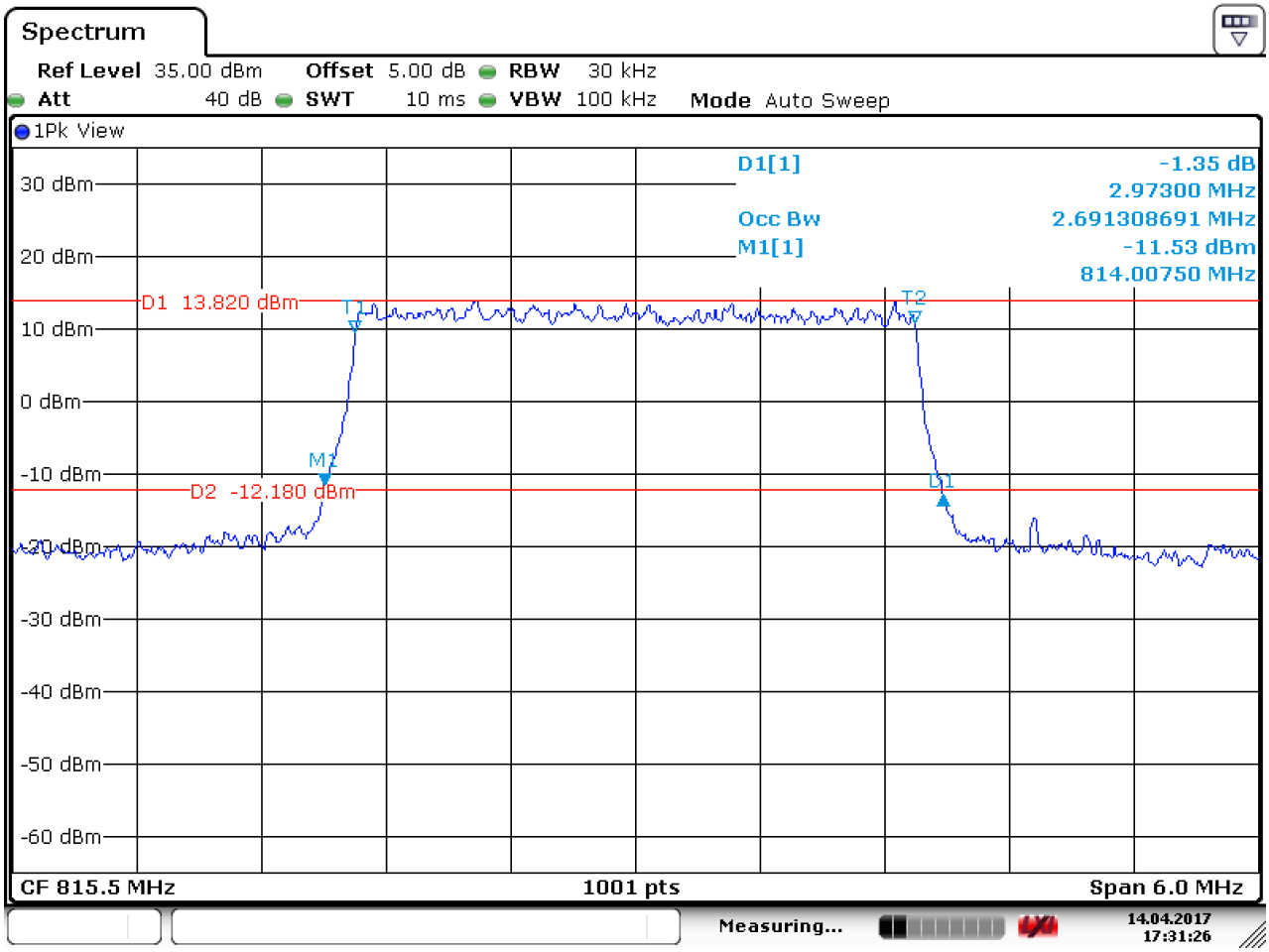
4.1.1.3 Test Mode = LTE/TM1 3MHz

4.1.1.3.1 Test Channel = LCH



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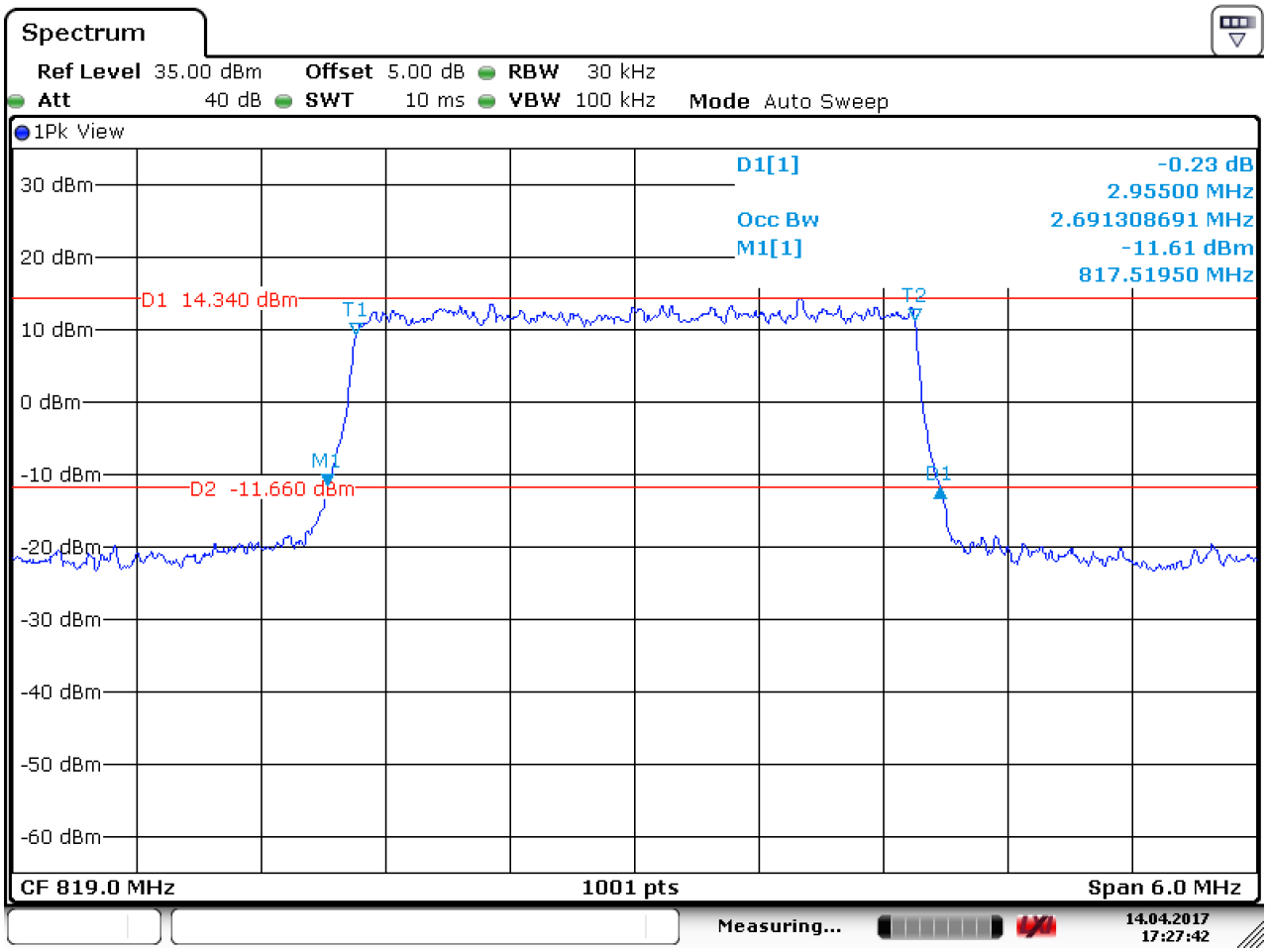
4.1.1.3.2 Test Channel = MCH



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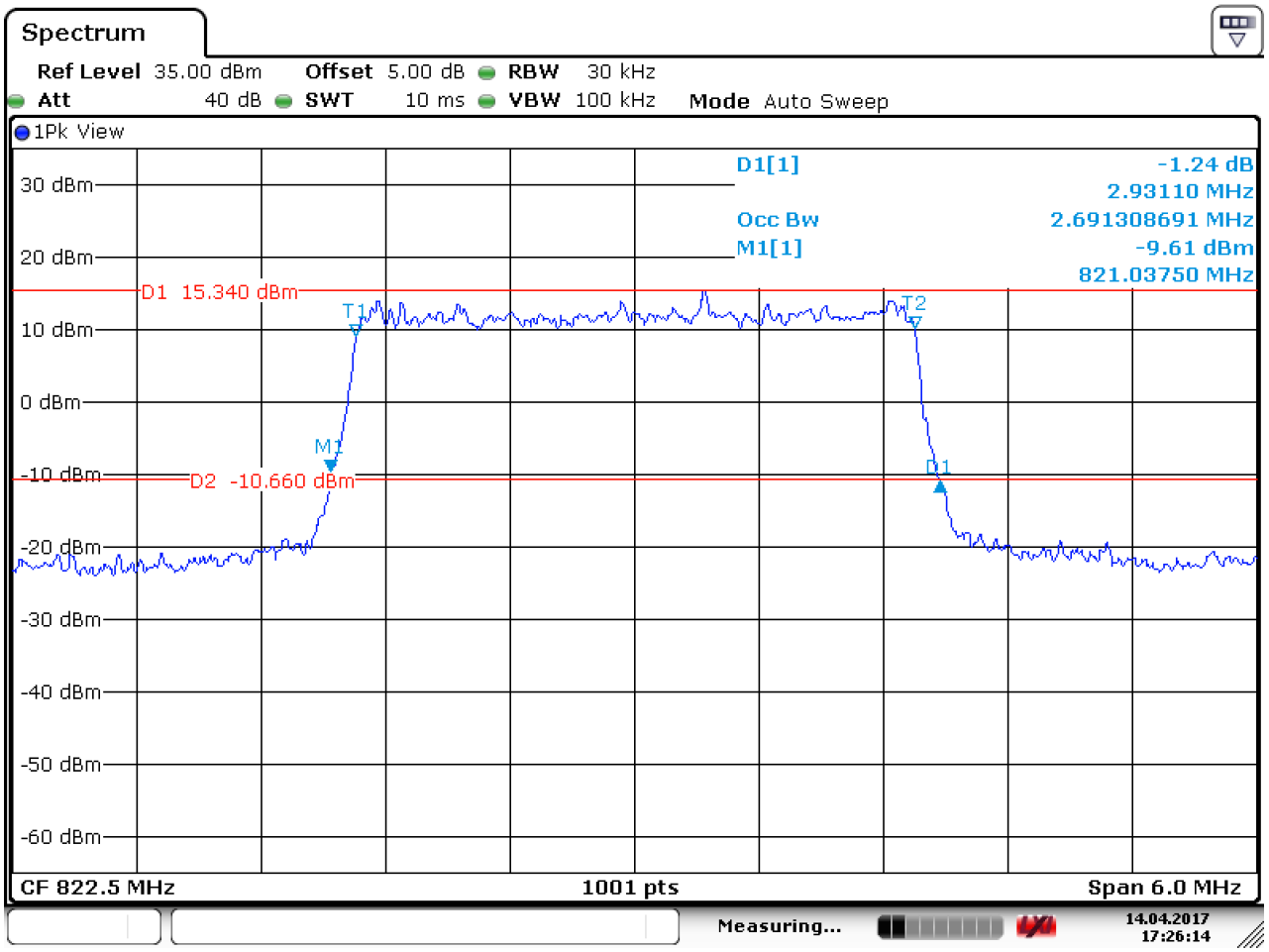
4.1.1.3.3 Test Channel = HCH



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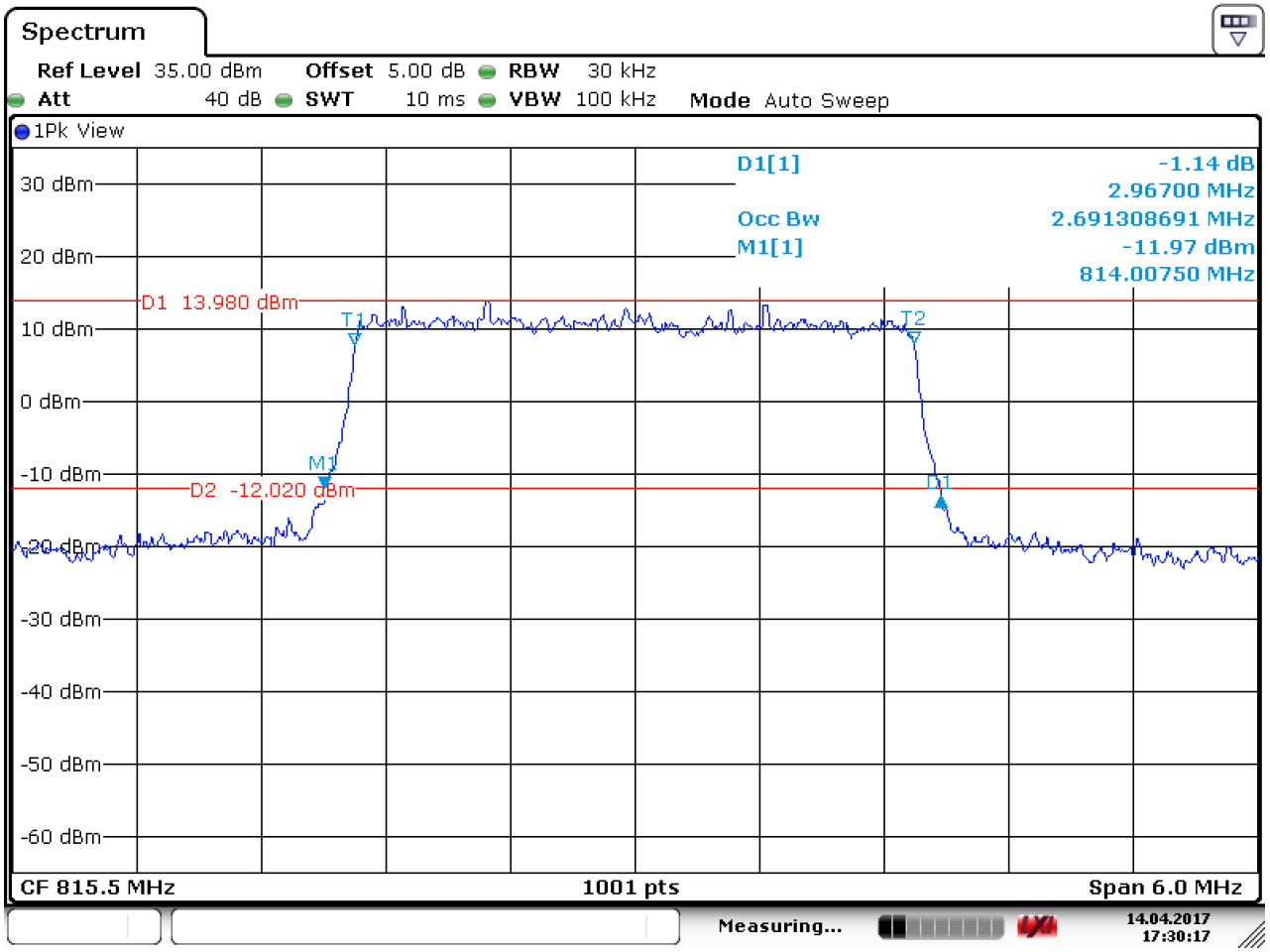
4.1.1.4 Test Mode = LTE/TM2 3MHz

4.1.1.4.1 Test Channel = LCH



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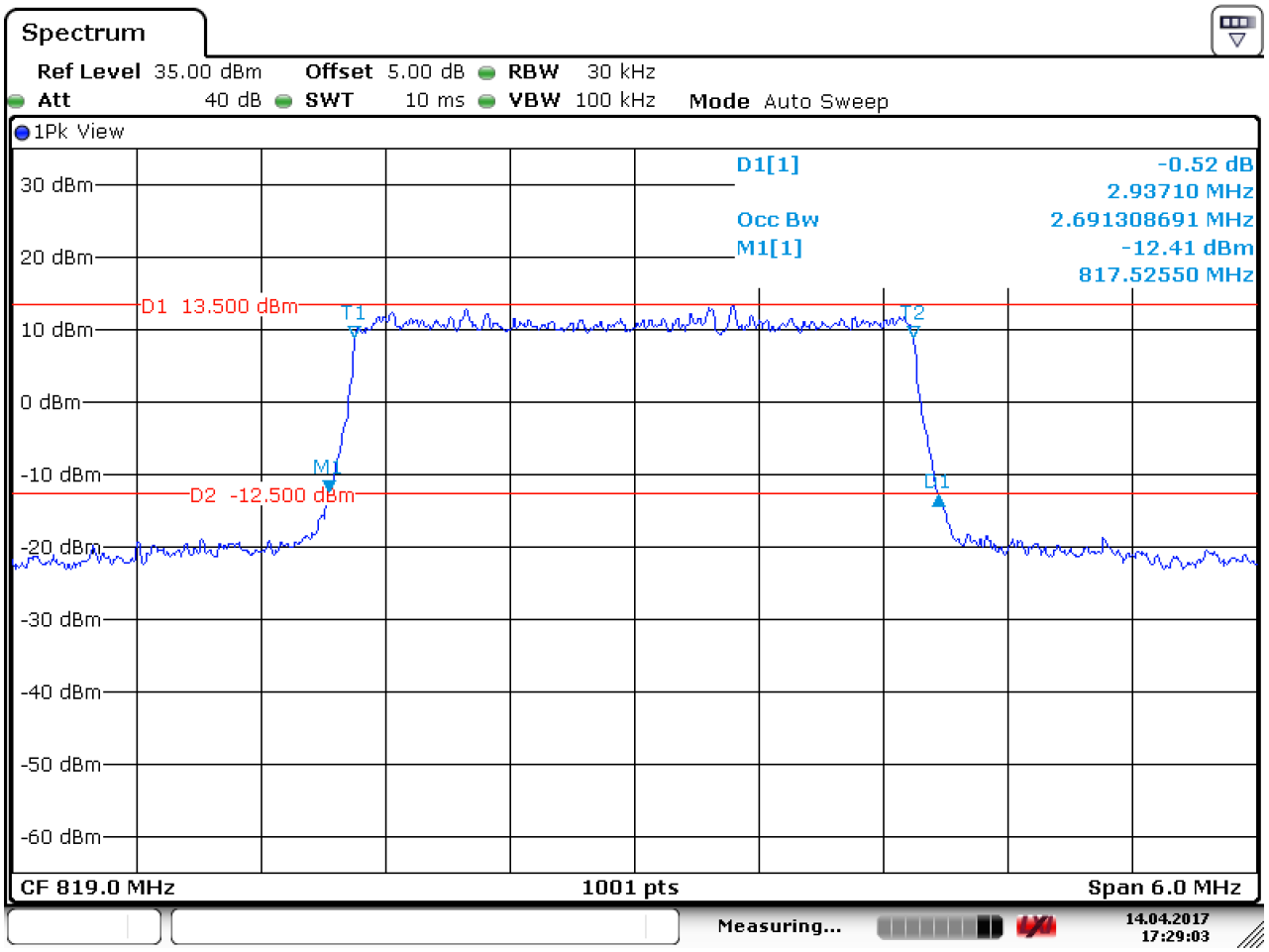
4.1.1.4.2 Test Channel = MCH



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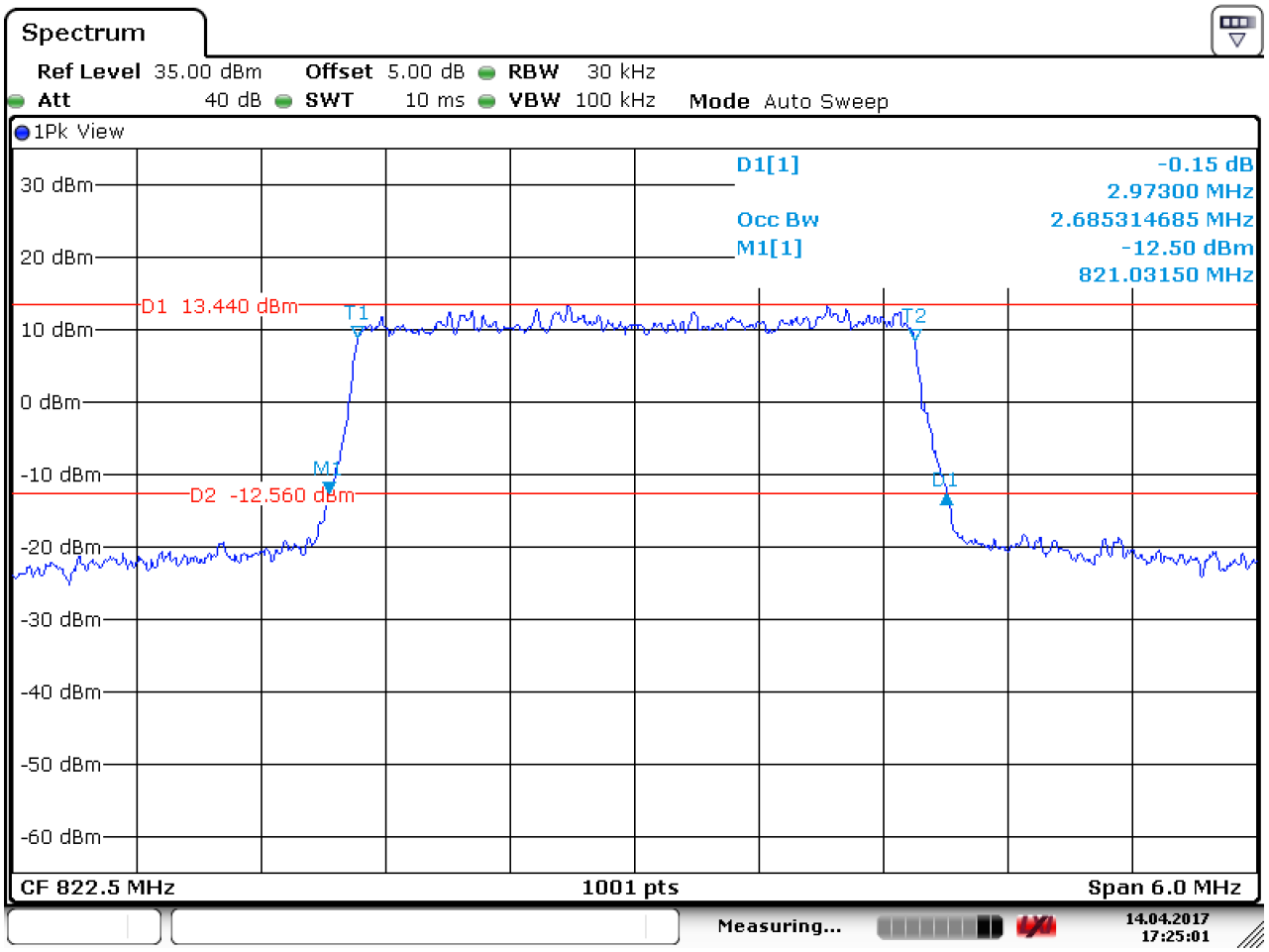
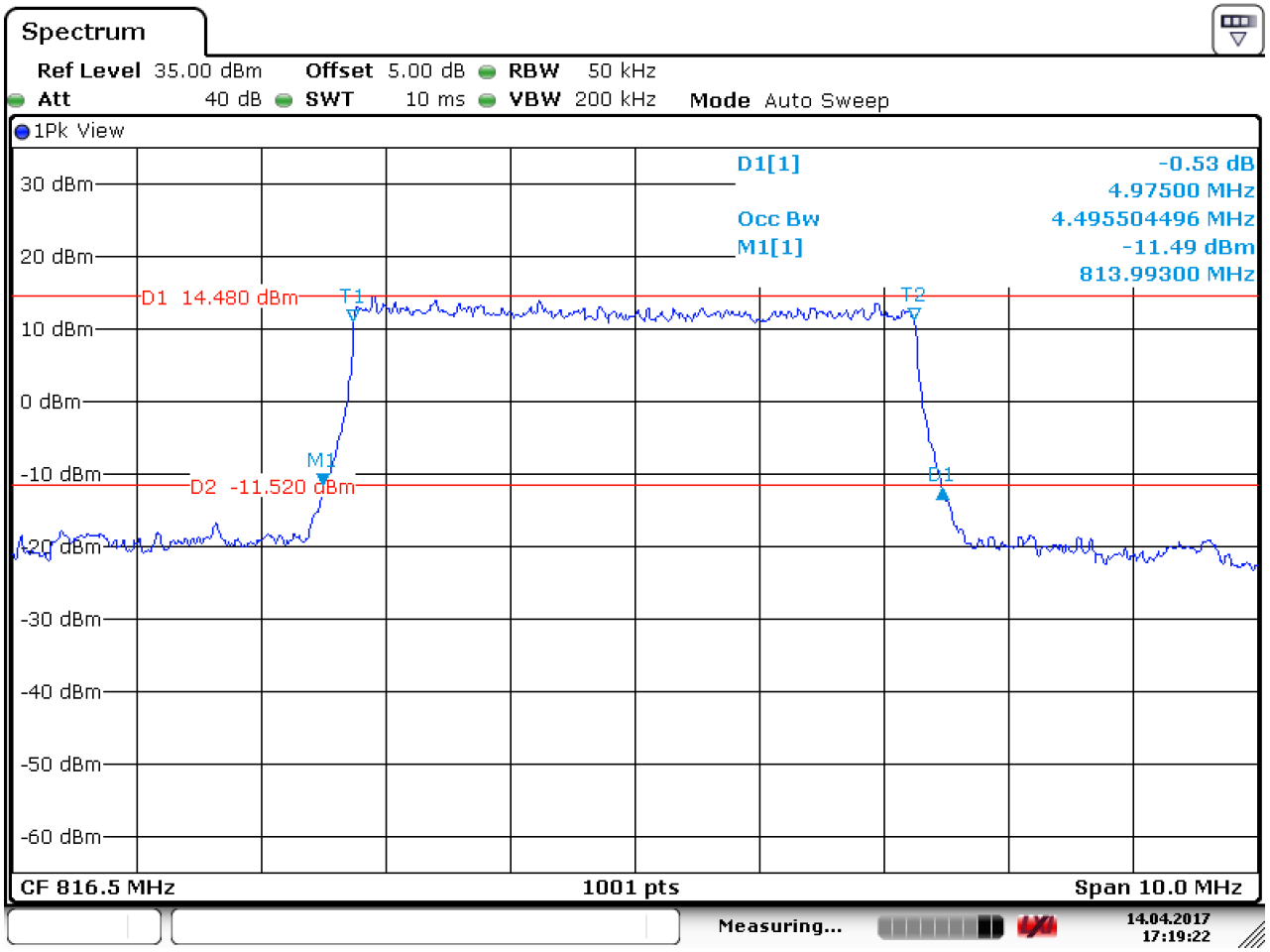
4.1.1.4.3 Test Channel = HCH



Date: 14.APR.2017 17:25:01

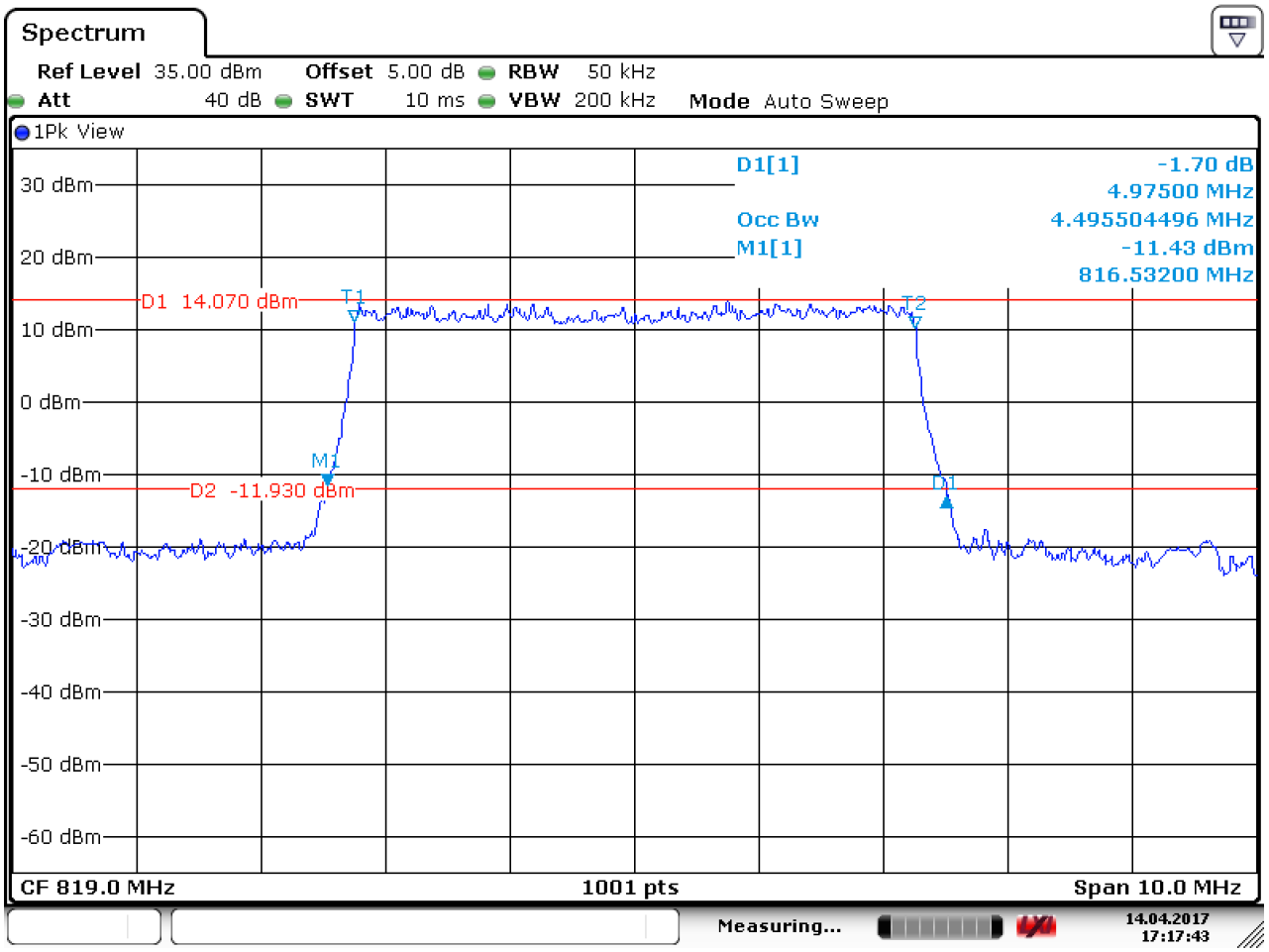
4.1.1.5 Test Mode = LTE/TM1 5MHz

4.1.1.5.1 Test Channel = LCH



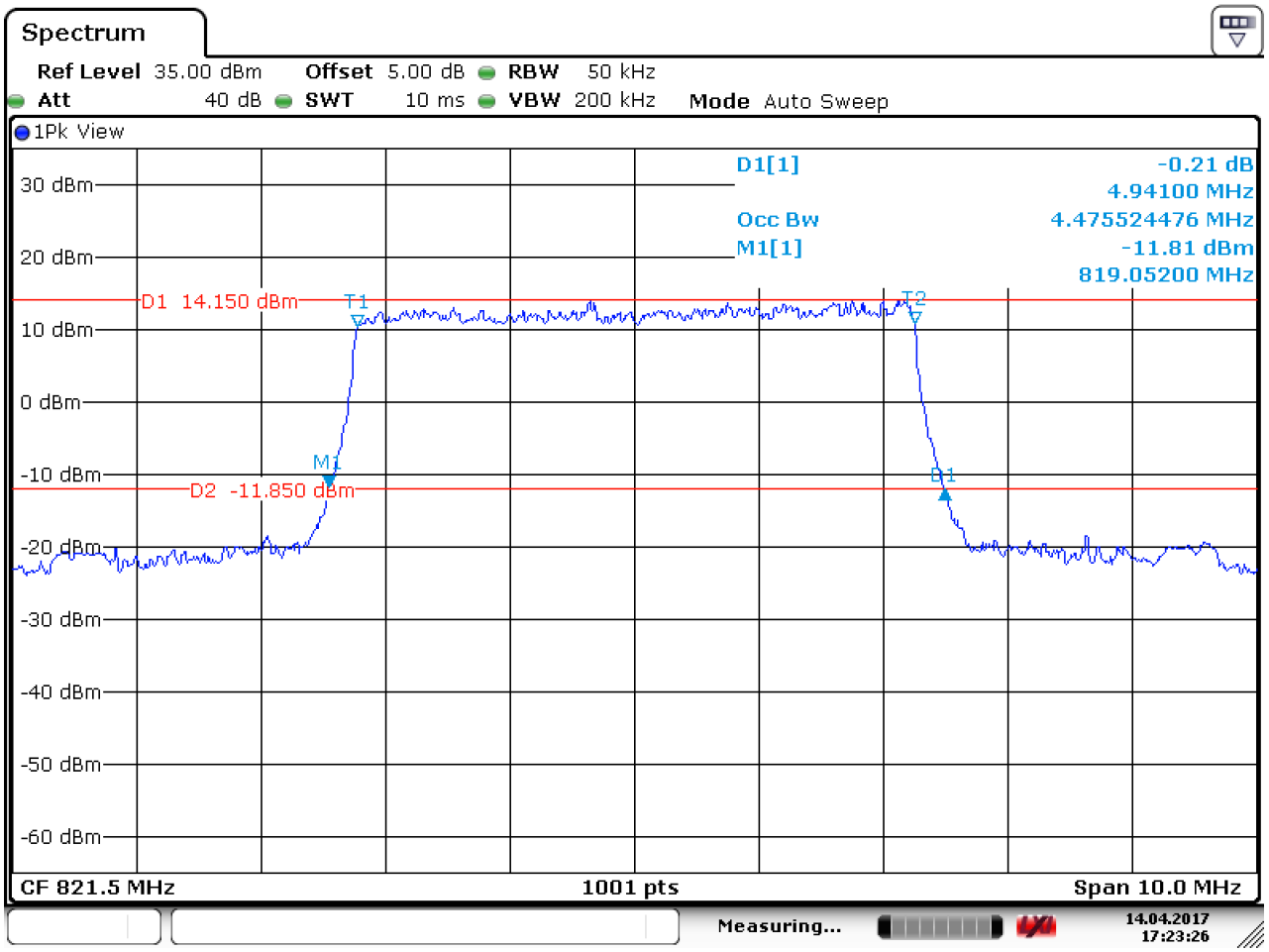
Date: 14.APR.2017 17:19:22

4.1.1.5.2 Test Channel = MCH



Date: 14.APR.2017 17:17:43

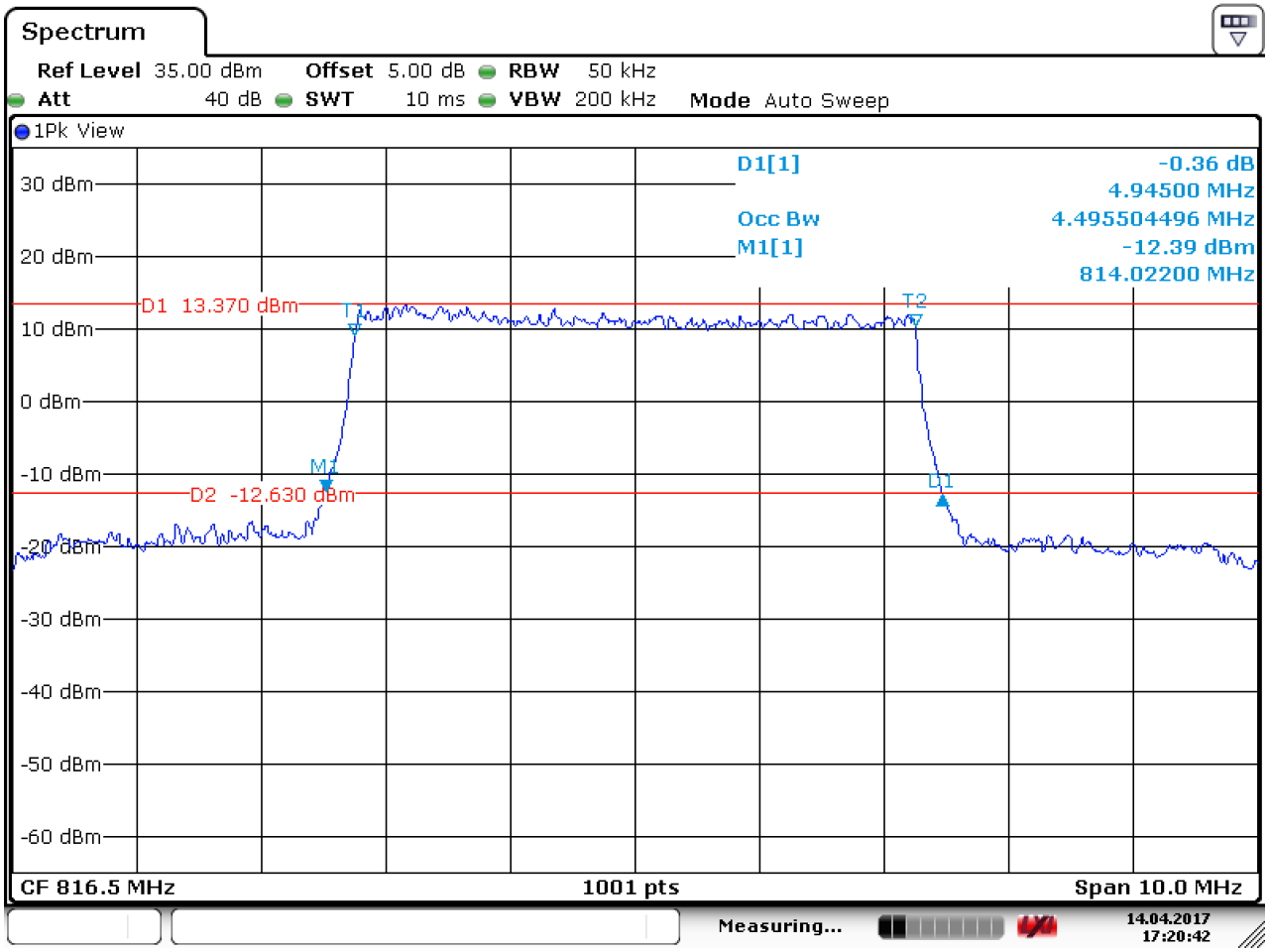
4.1.1.5.3 Test Channel = HCH



Date: 14.APR.2017 17:23:27

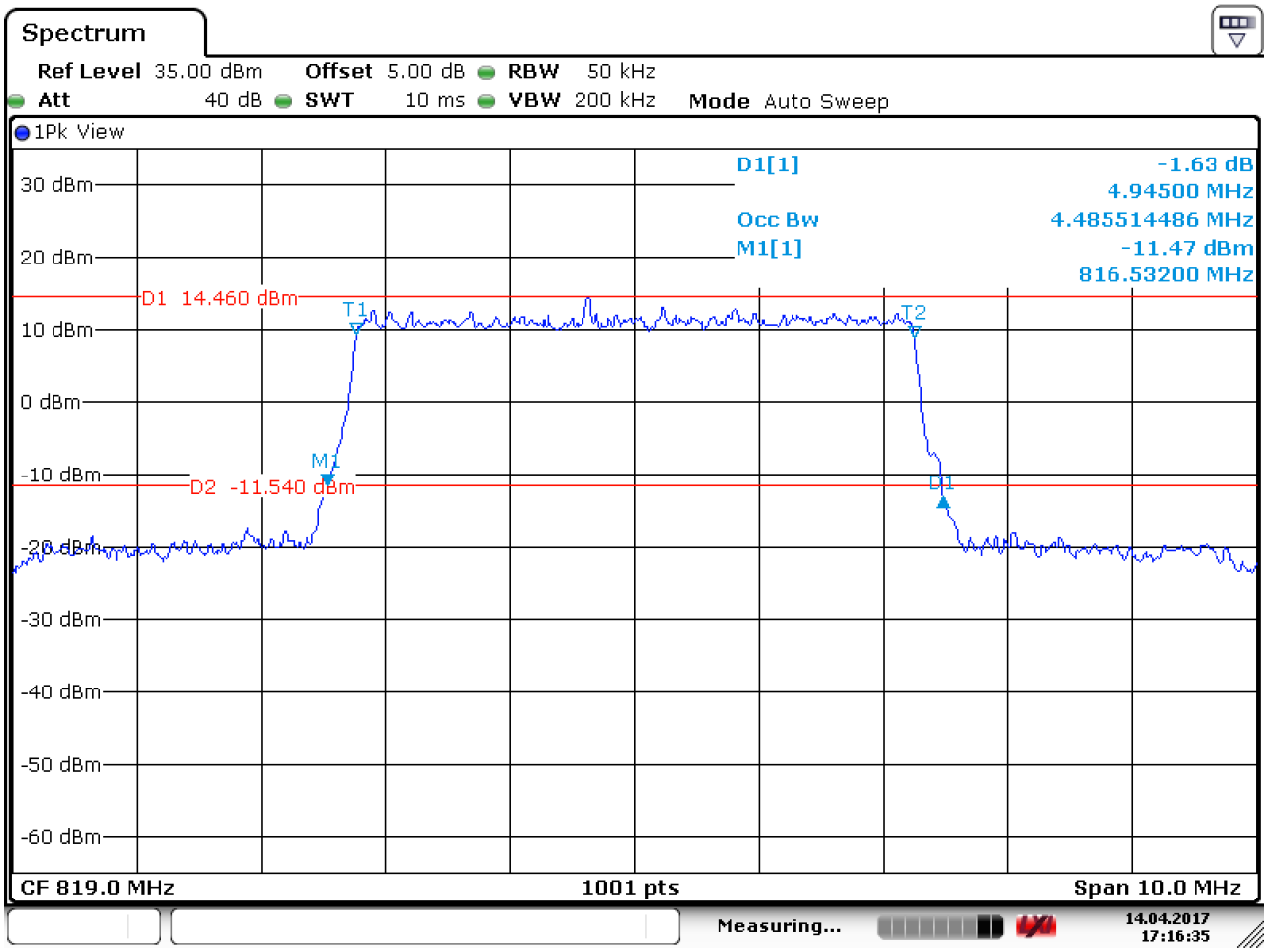
4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH



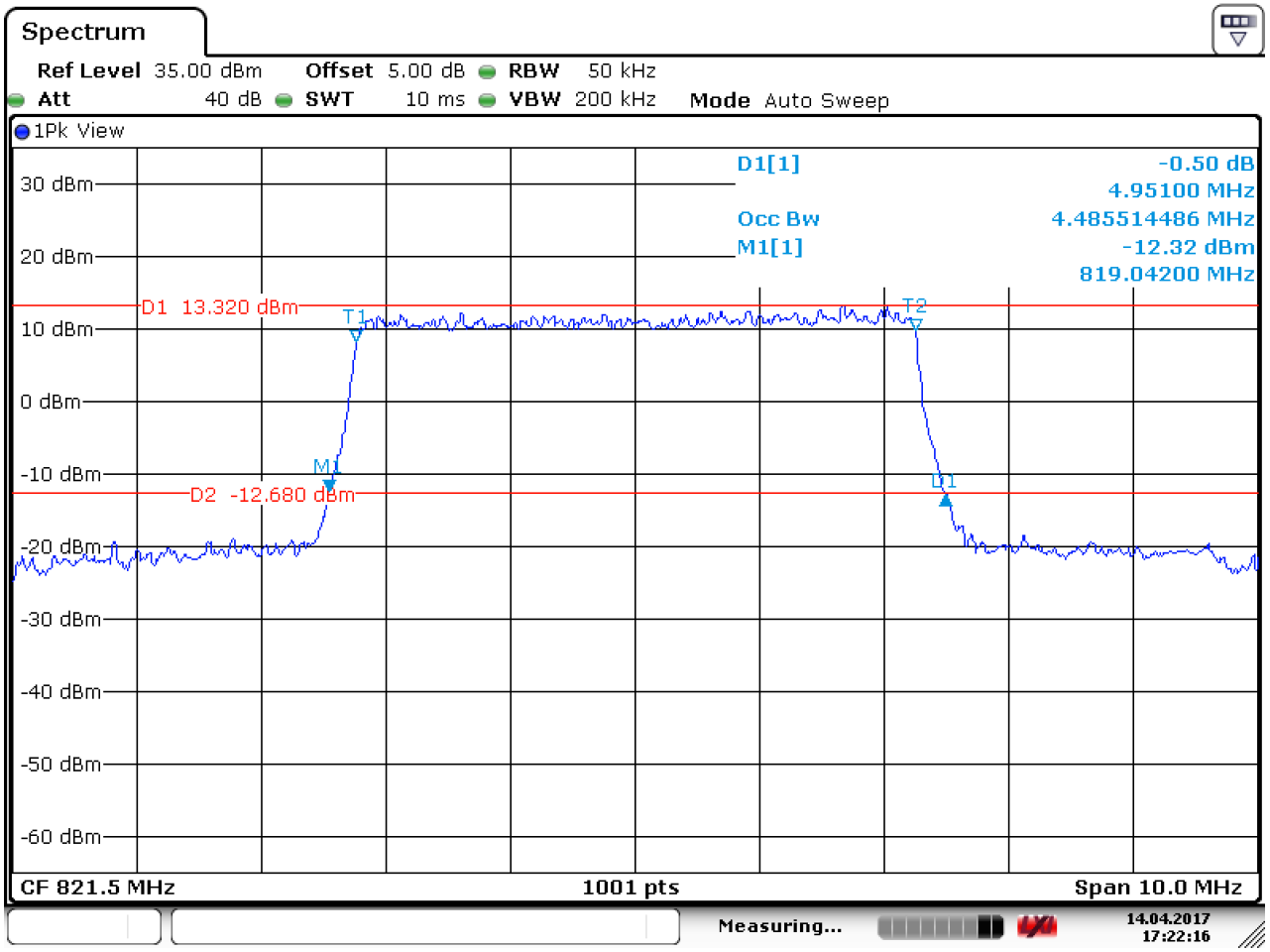
Date: 14.APR.2017 17:20:43

4.1.1.6.2 Test Channel = MCH



Date: 14.APR.2017 17:16:35

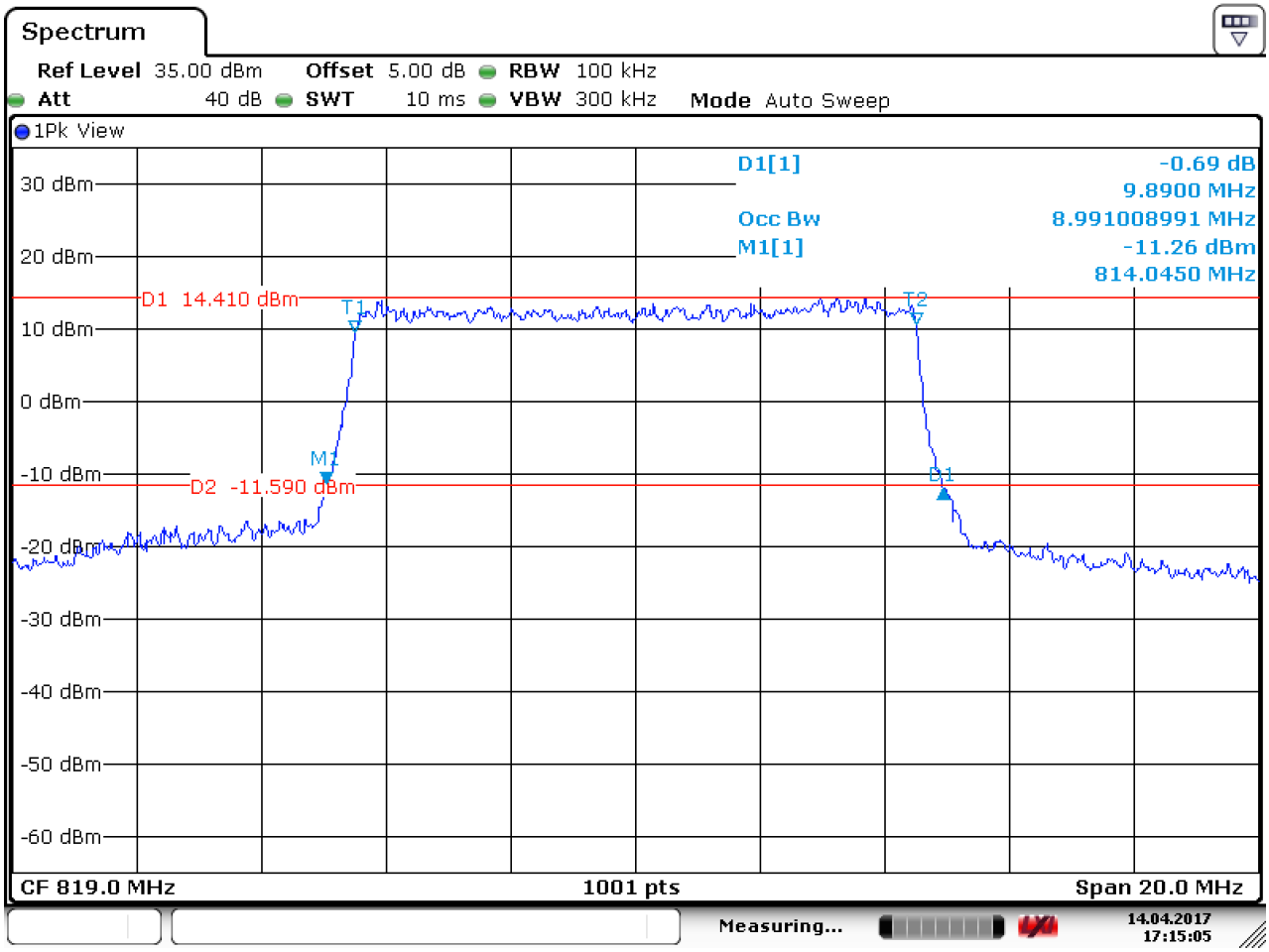
4.1.1.6.3 Test Channel = HCH



Date: 14.APR.2017 17:22:16

4.1.1.7 Test Mode = LTE/TM1 10MHz

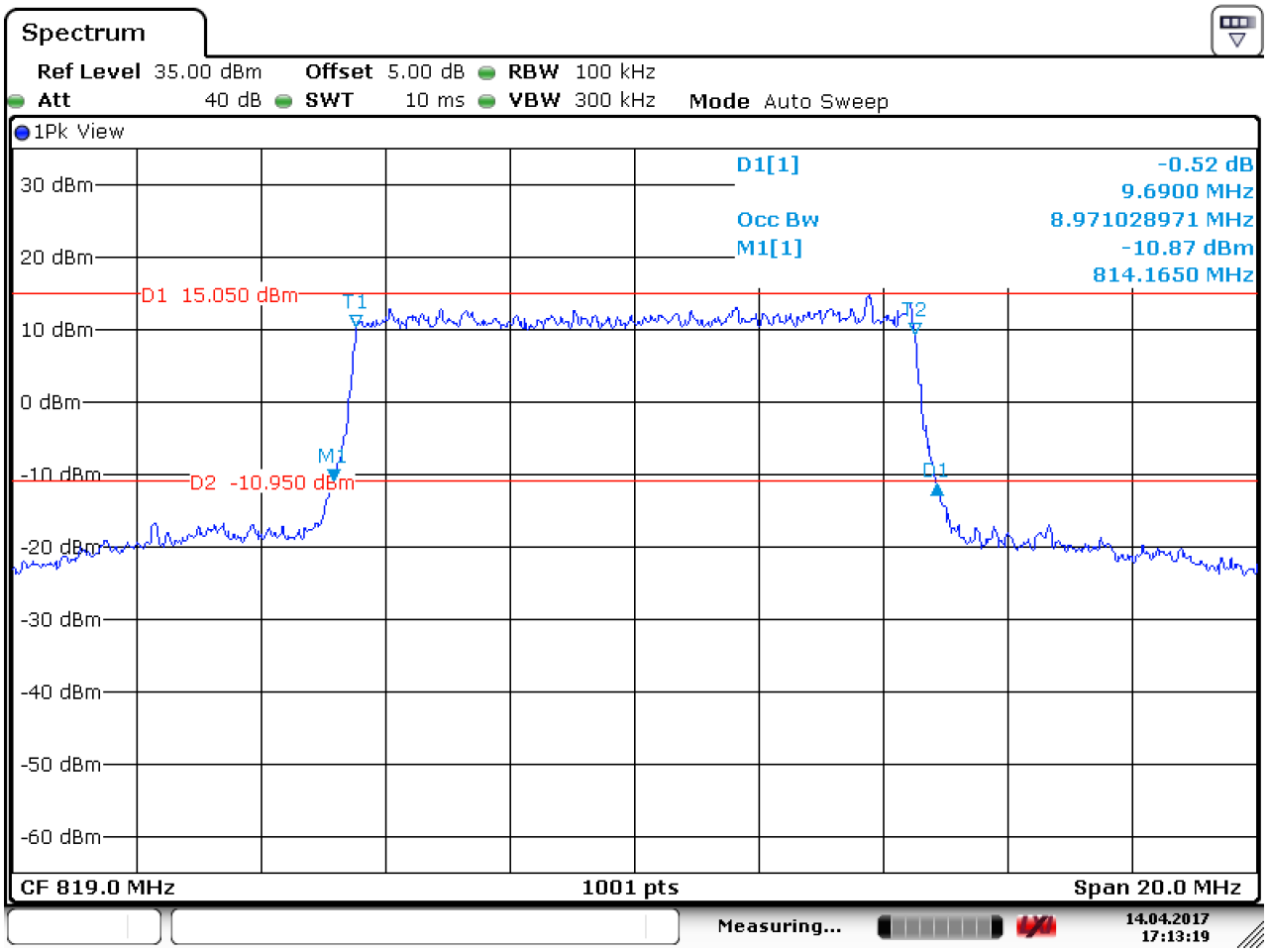
4.1.1.7.1 Test Channel = MCH



Date: 14.APR.2017 17:15:05

4.1.1.8 Test Mode = LTE/TM2 10MHz

4.1.1.8.1 Test Channel = MCH



Date: 14.APR.2017 17:13:19

5 Band Edges Compliance

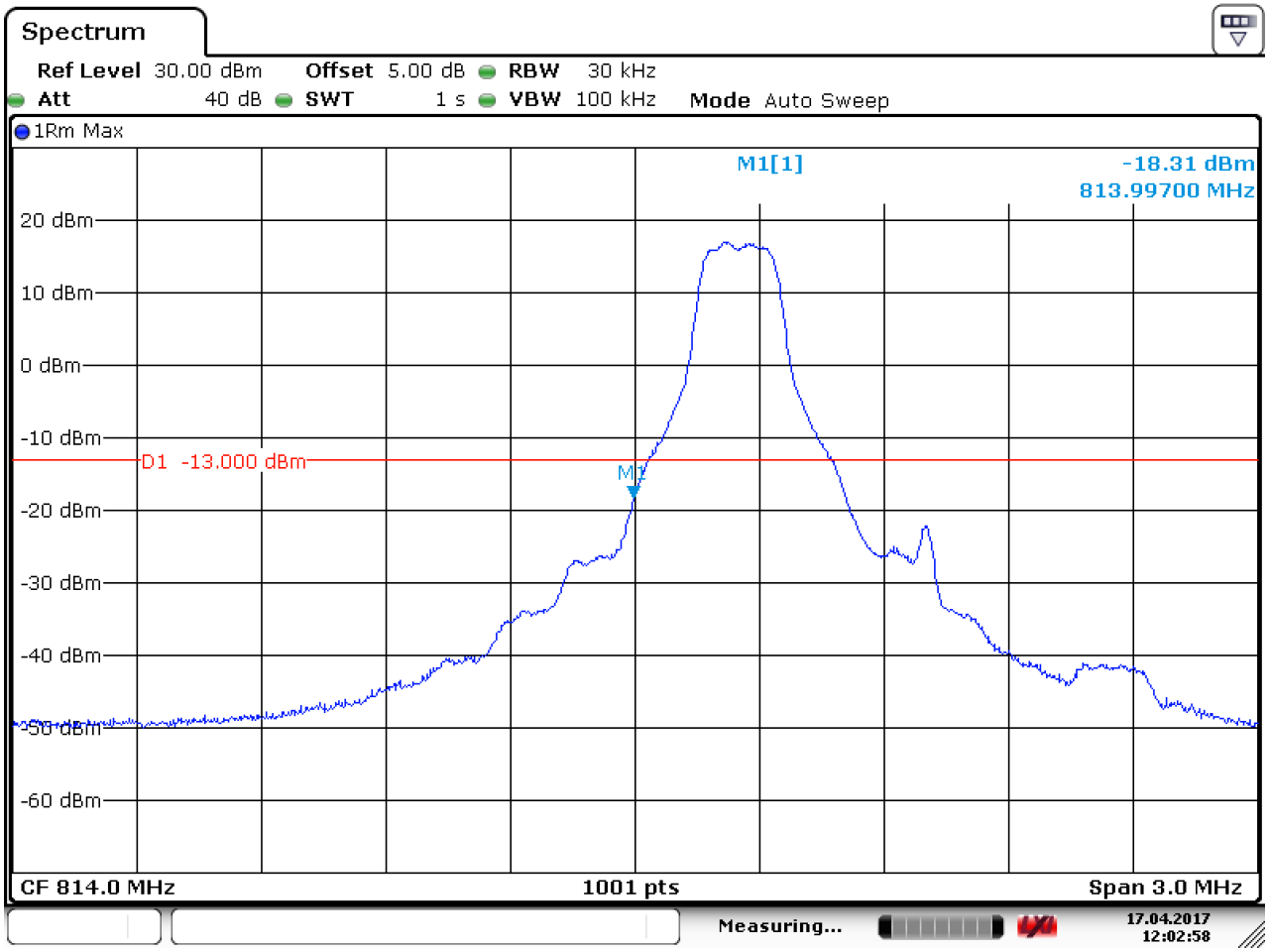
5.1 For LTE

5.1.1 Test Band = LTE band26(814-824)

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

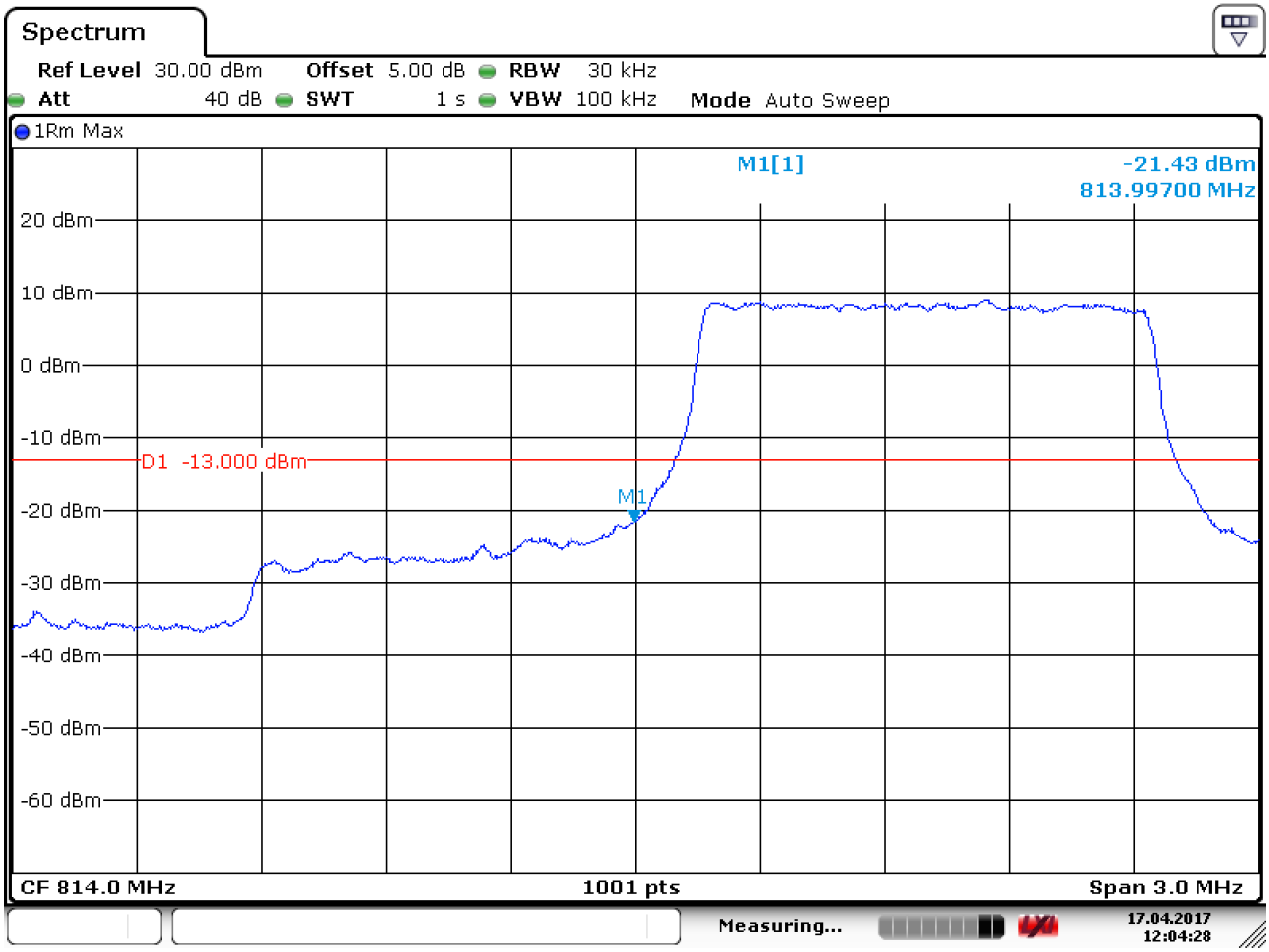
5.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1 Test RB=1RB



Date: 17.APR.2017 12:02:59

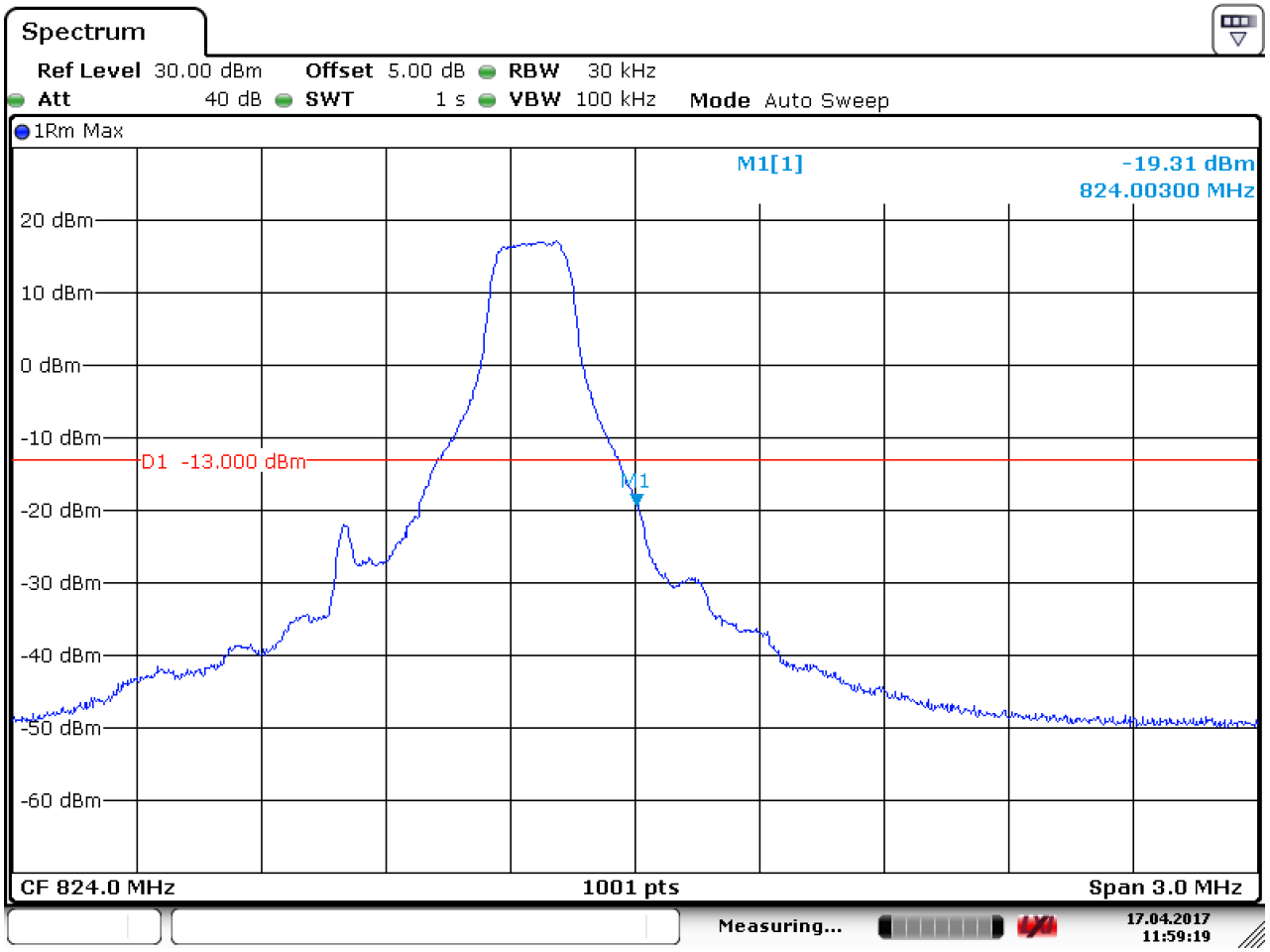
5.1.1.1.1.2 Test RB=6RB



Date: 17.APR.2017 12:04:28

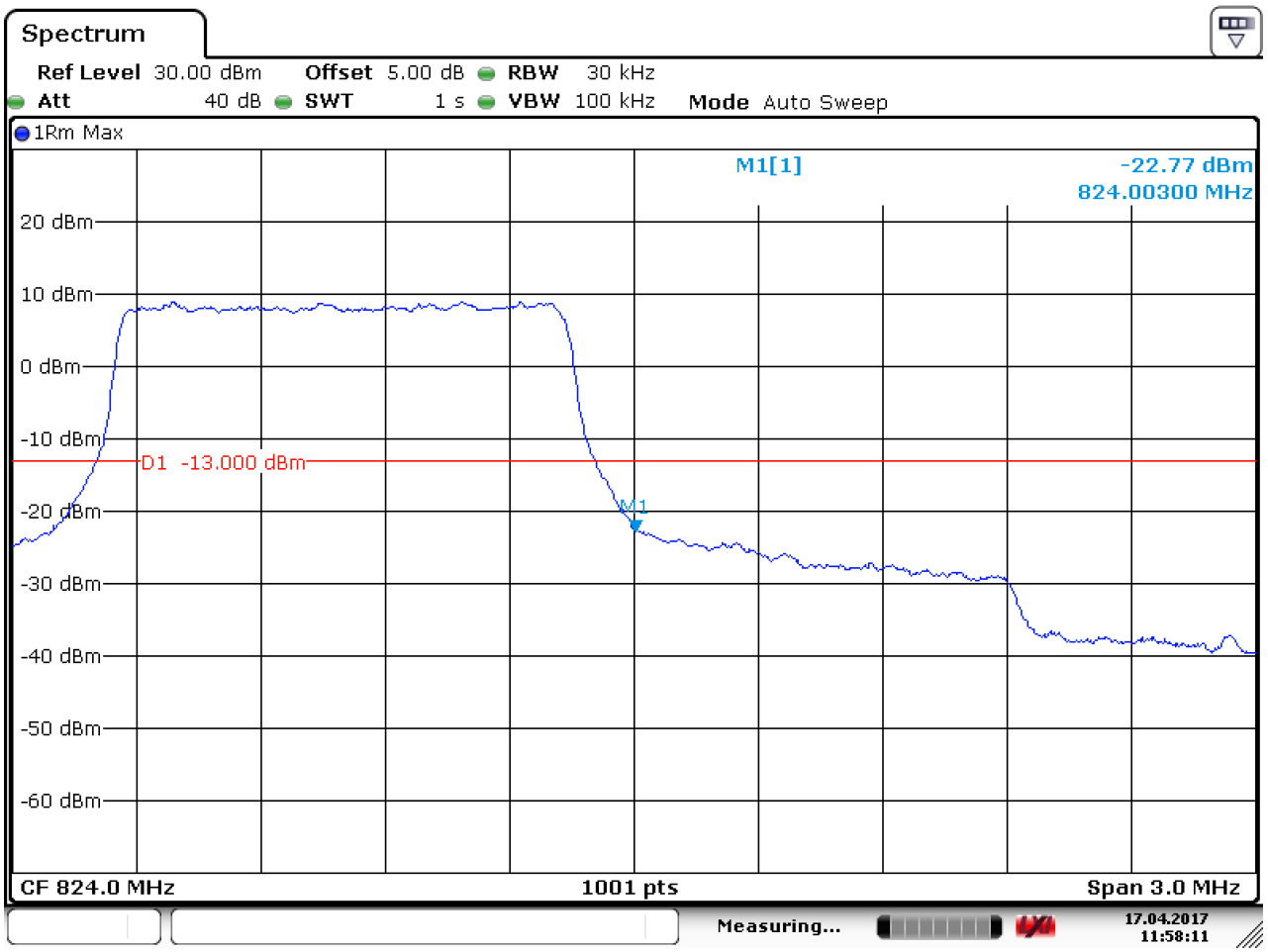
5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



Date: 17.APR.2017 11:59:19

5.1.1.1.2.2 Test RB=6RB

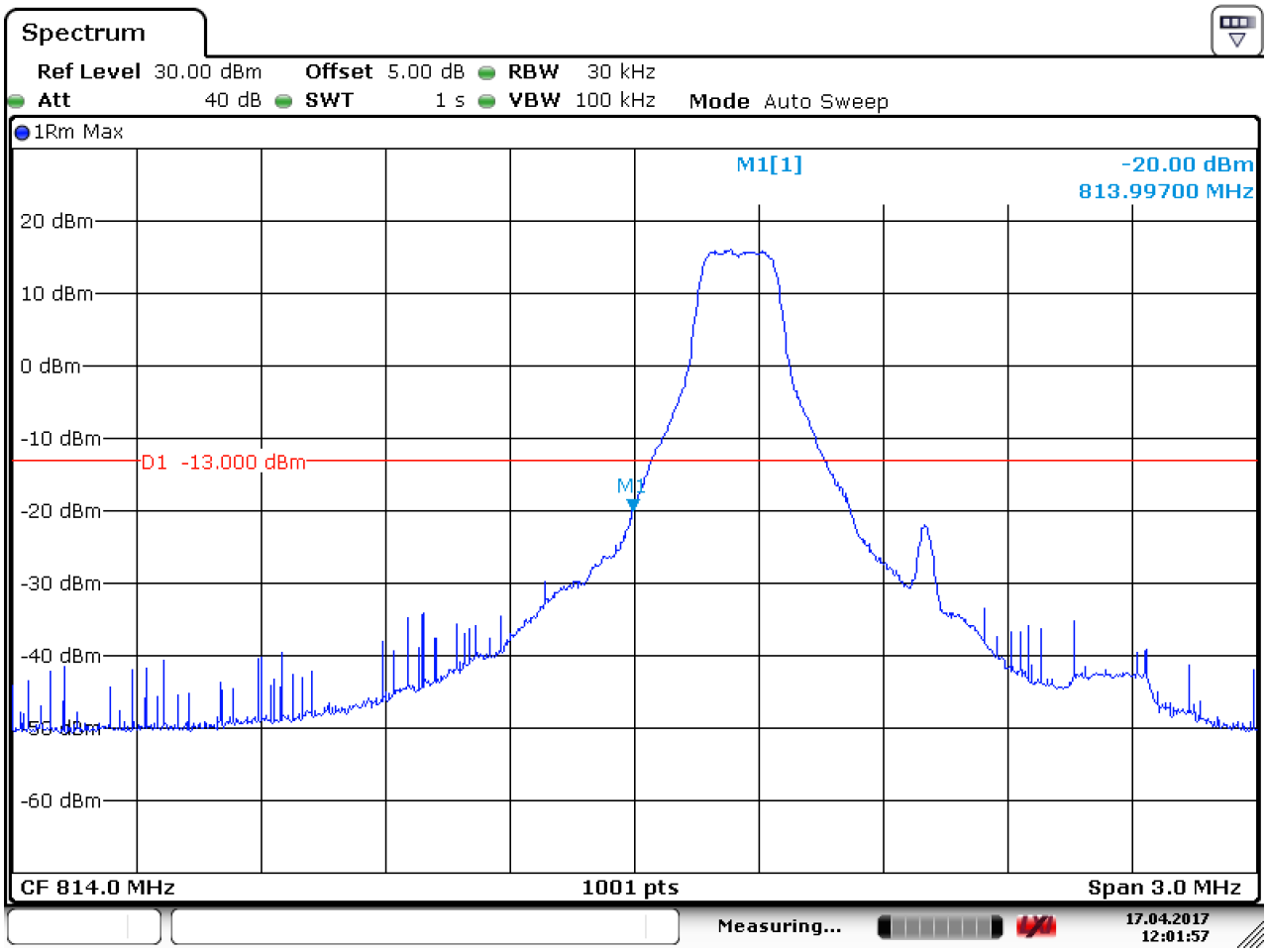


Date: 17.APR.2017 11:58:12

5.1.1.2 Test Mode = LTE/TM2 1.4MHz

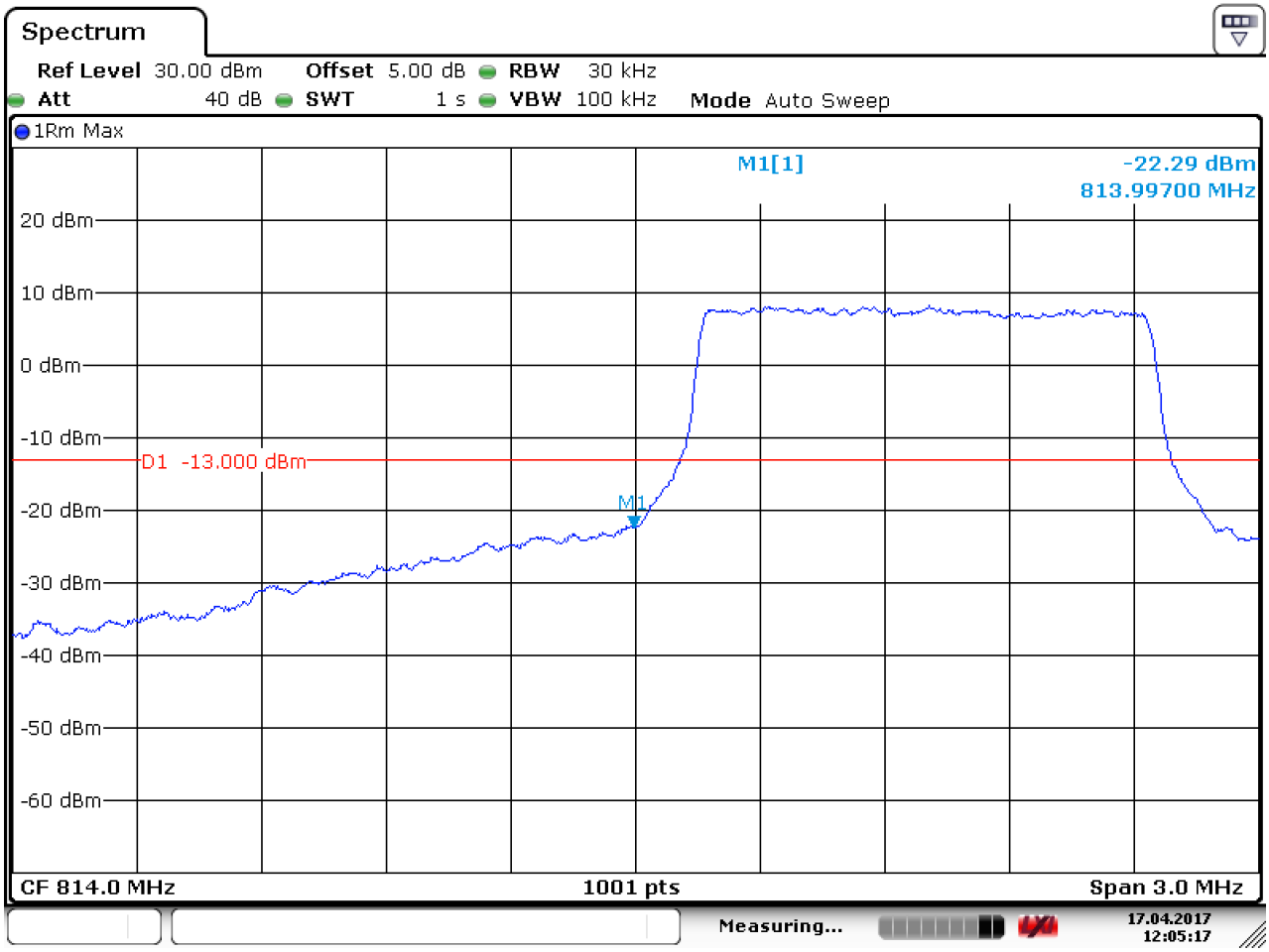
5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB



Date: 17.APR.2017 12:01:57

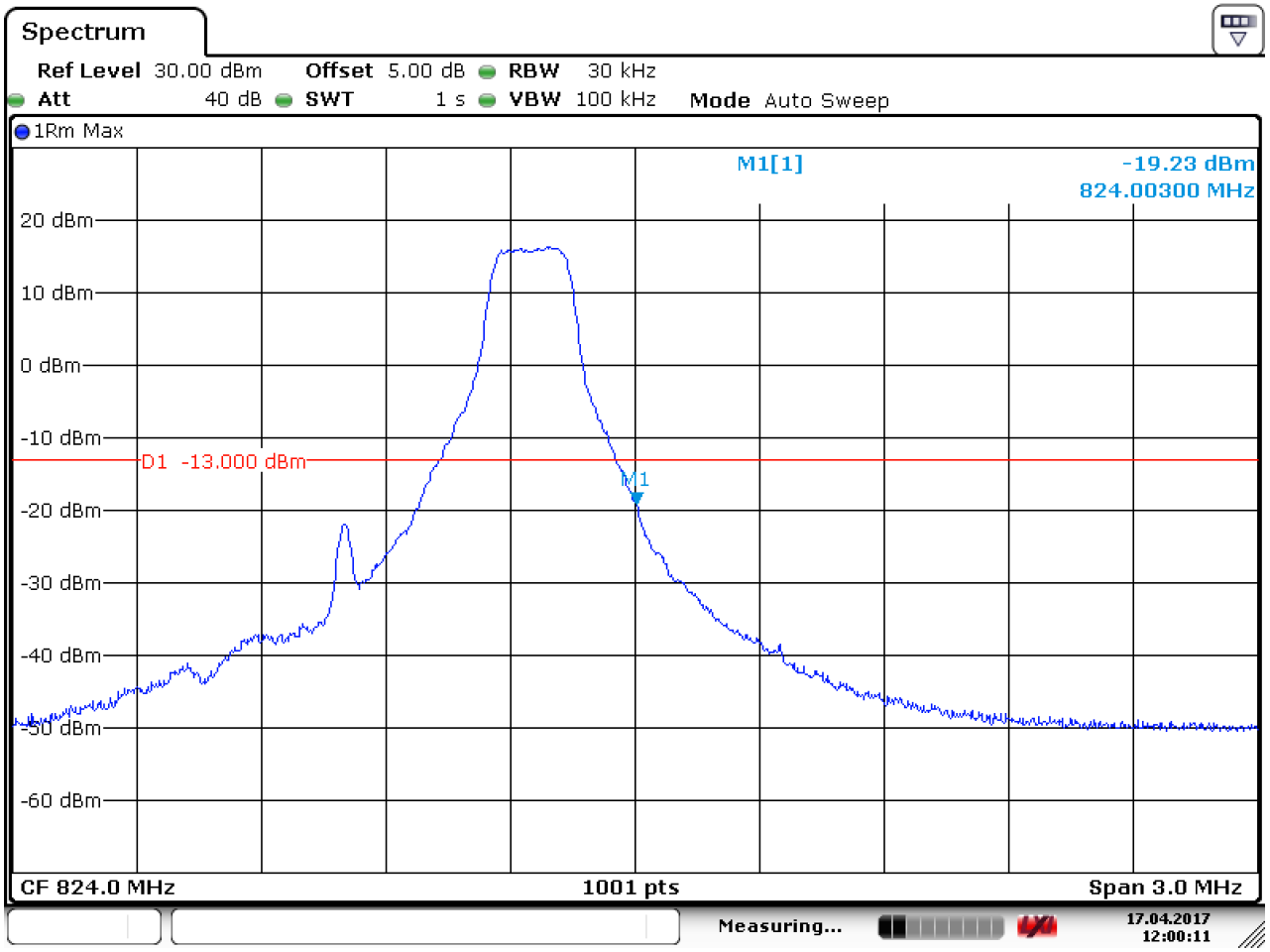
5.1.1.2.1.2 Test RB=6RB



Date: 17.APR.2017 12:05:17

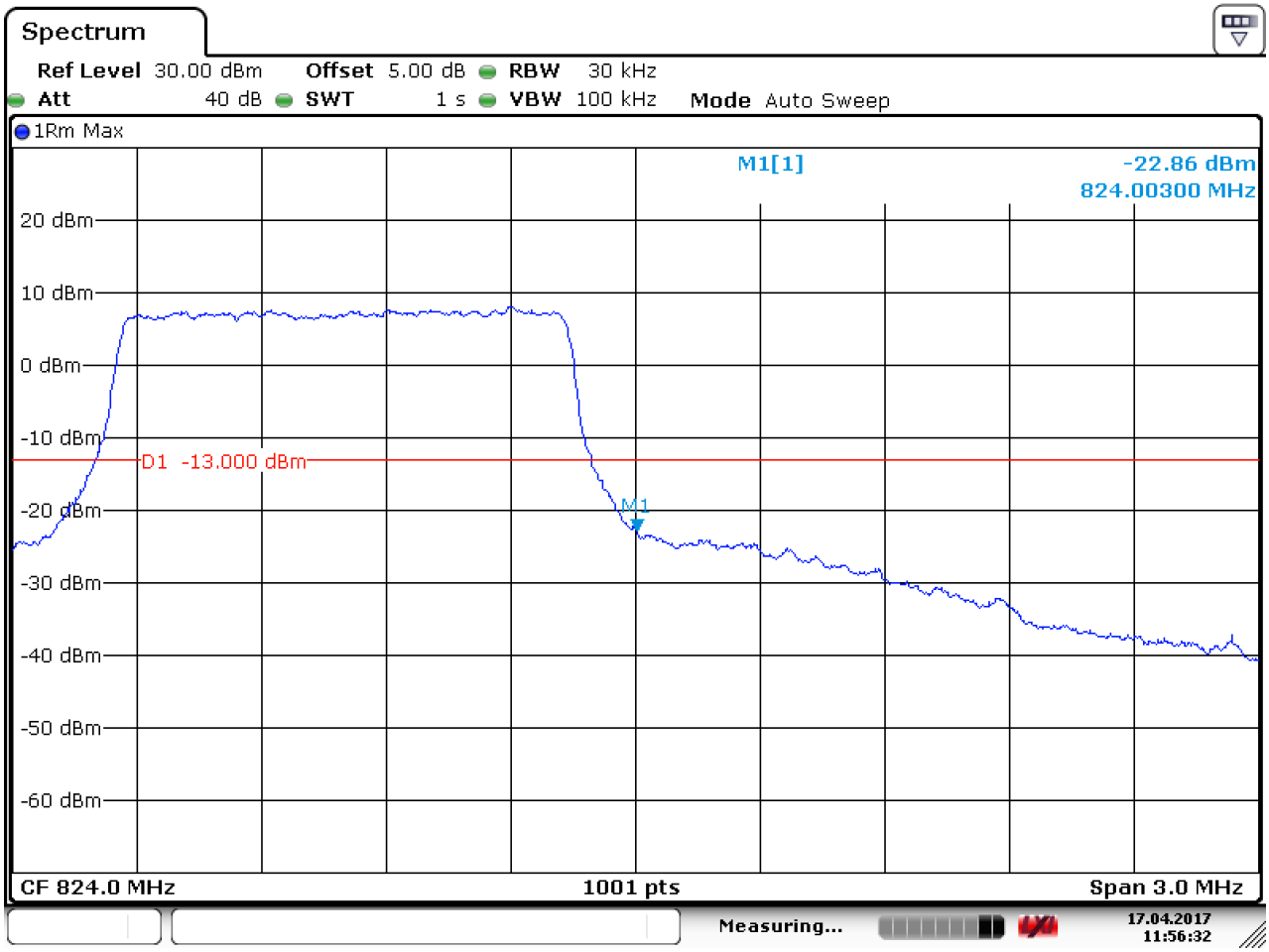
5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



Date: 17.APR.2017 12:00:11

5.1.1.2.2.2 Test RB=6RB

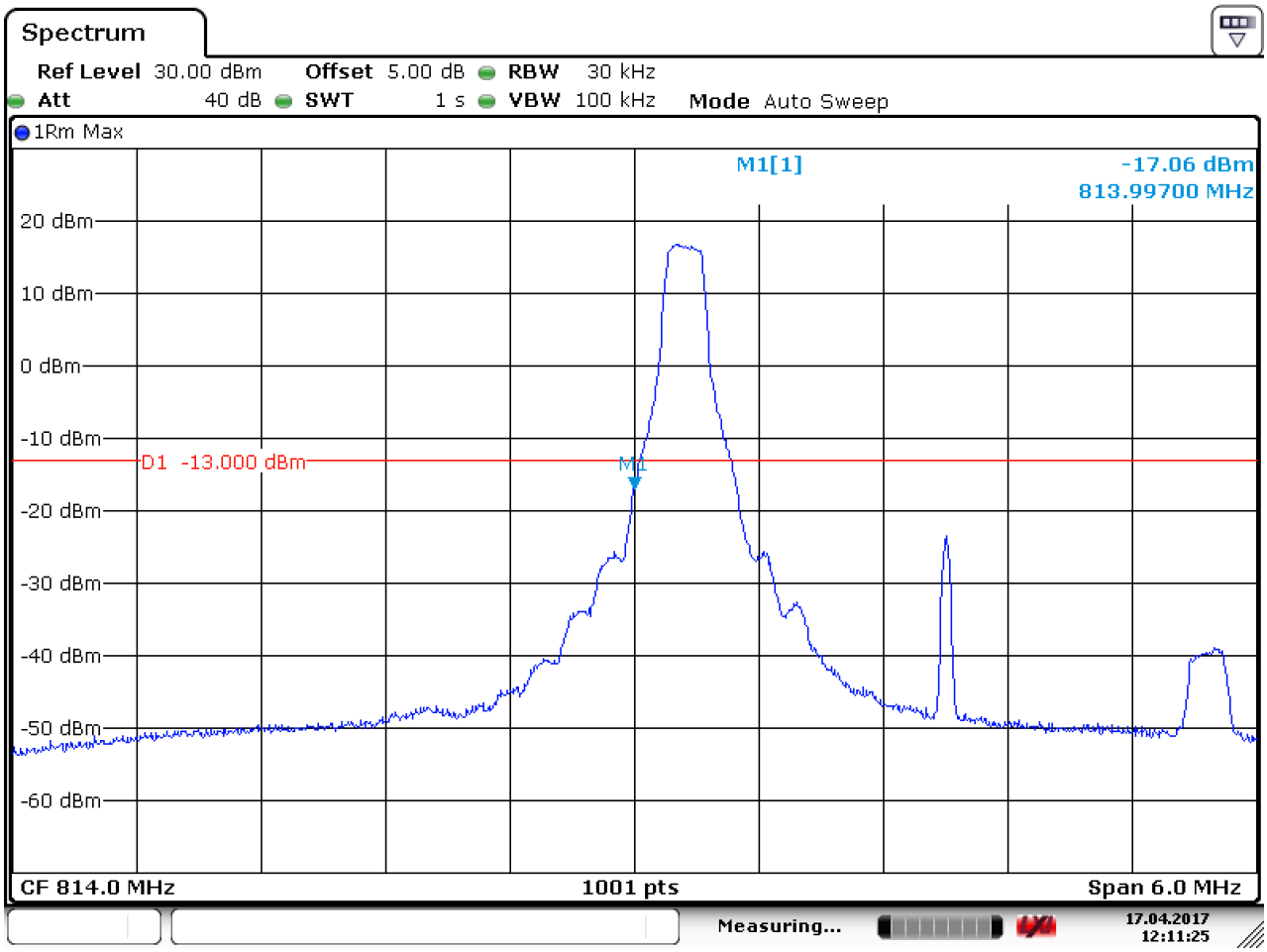


Date: 17.APR.2017 11:56:33

5.1.1.3 Test Mode = LTE/TM1 3MHz

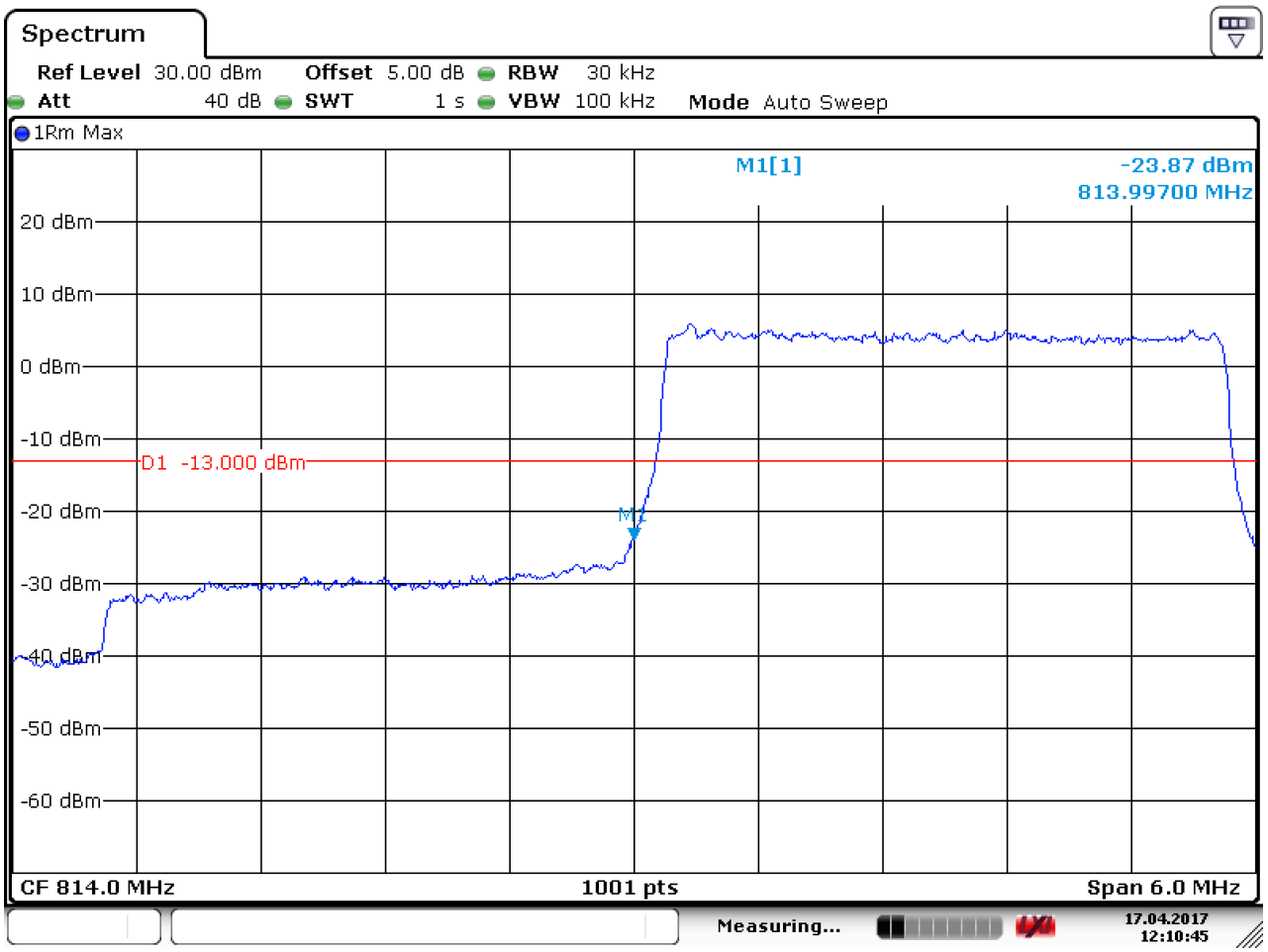
5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



Date: 17.APR.2017 12:11:25

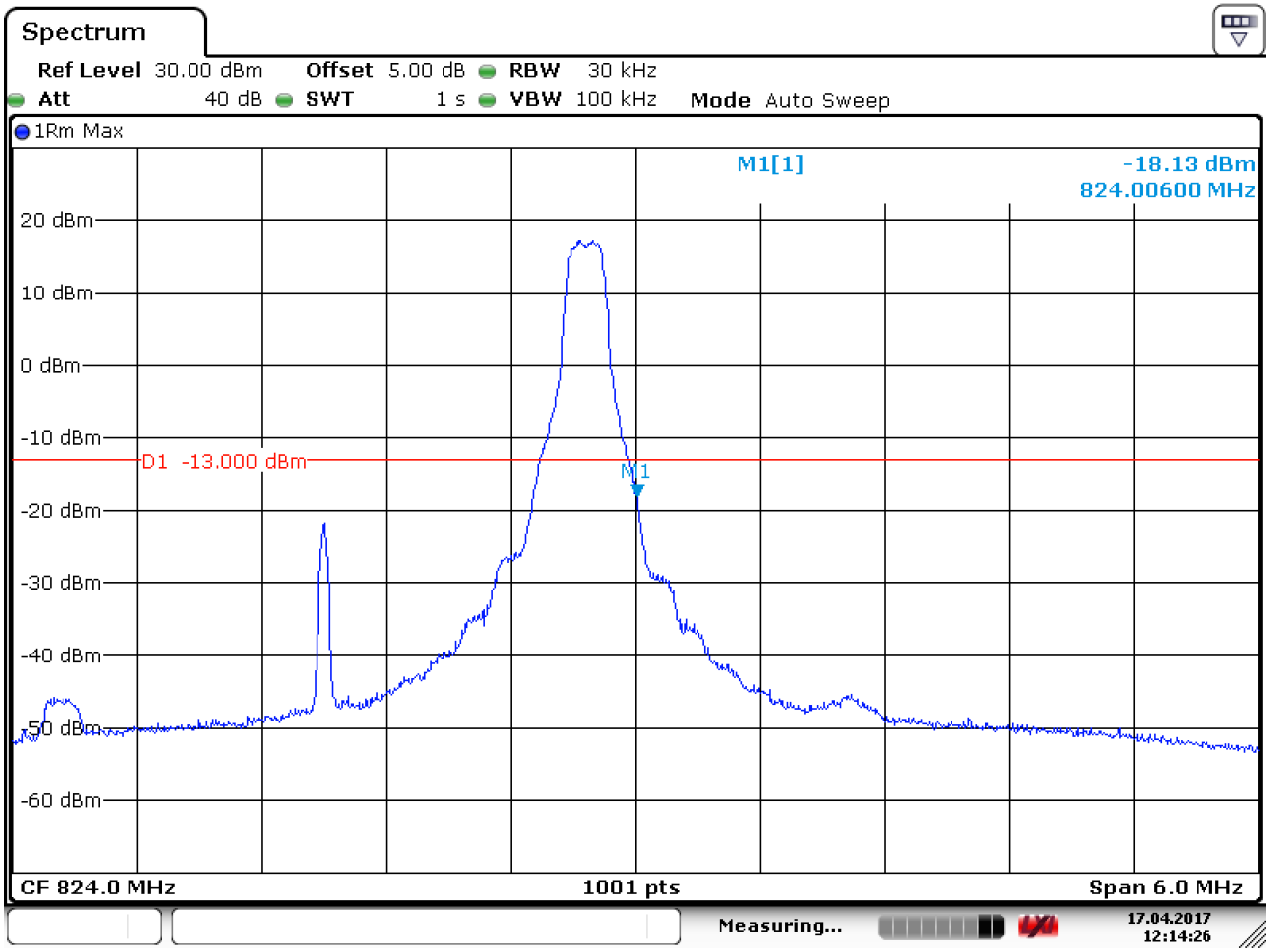
5.1.1.3.1.2 Test RB=15RB



Date: 17.APR.2017 12:10:45

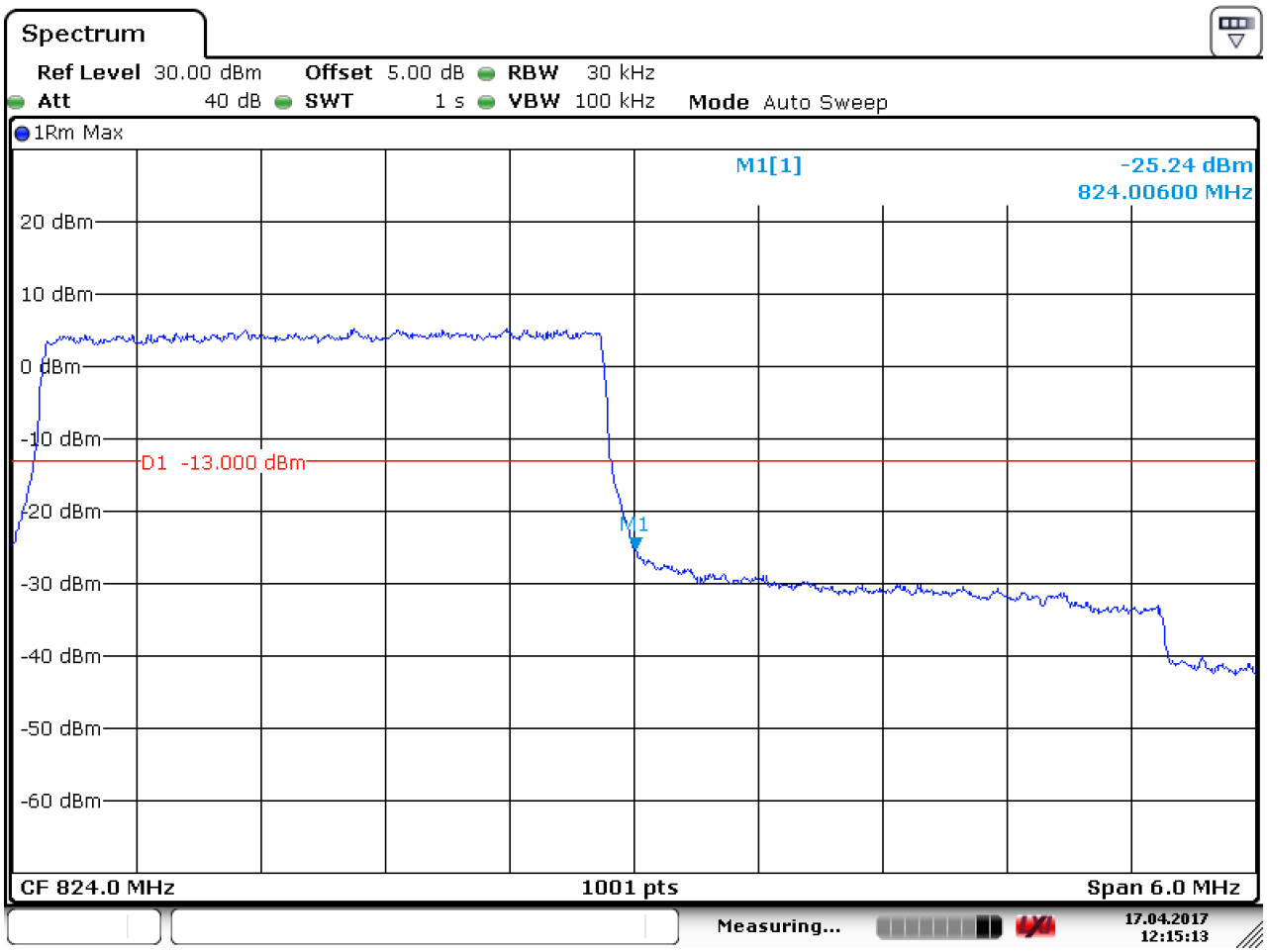
5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB



Date: 17.APR.2017 12:14:27

5.1.1.3.2.2 Test RB=15RB

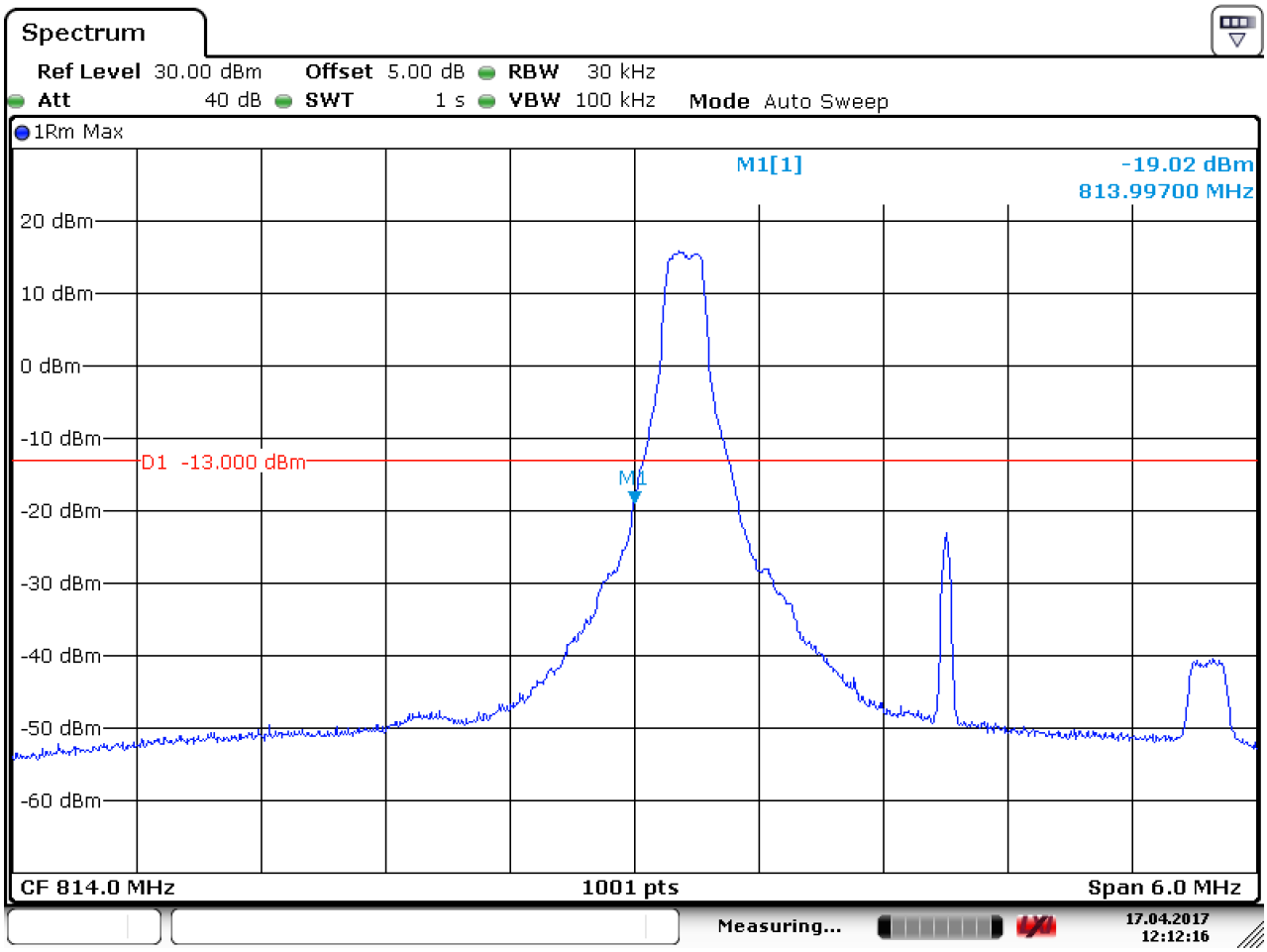


Date: 17.APR.2017 12:15:13

5.1.1.4 Test Mode = LTE/TM2 3MHz

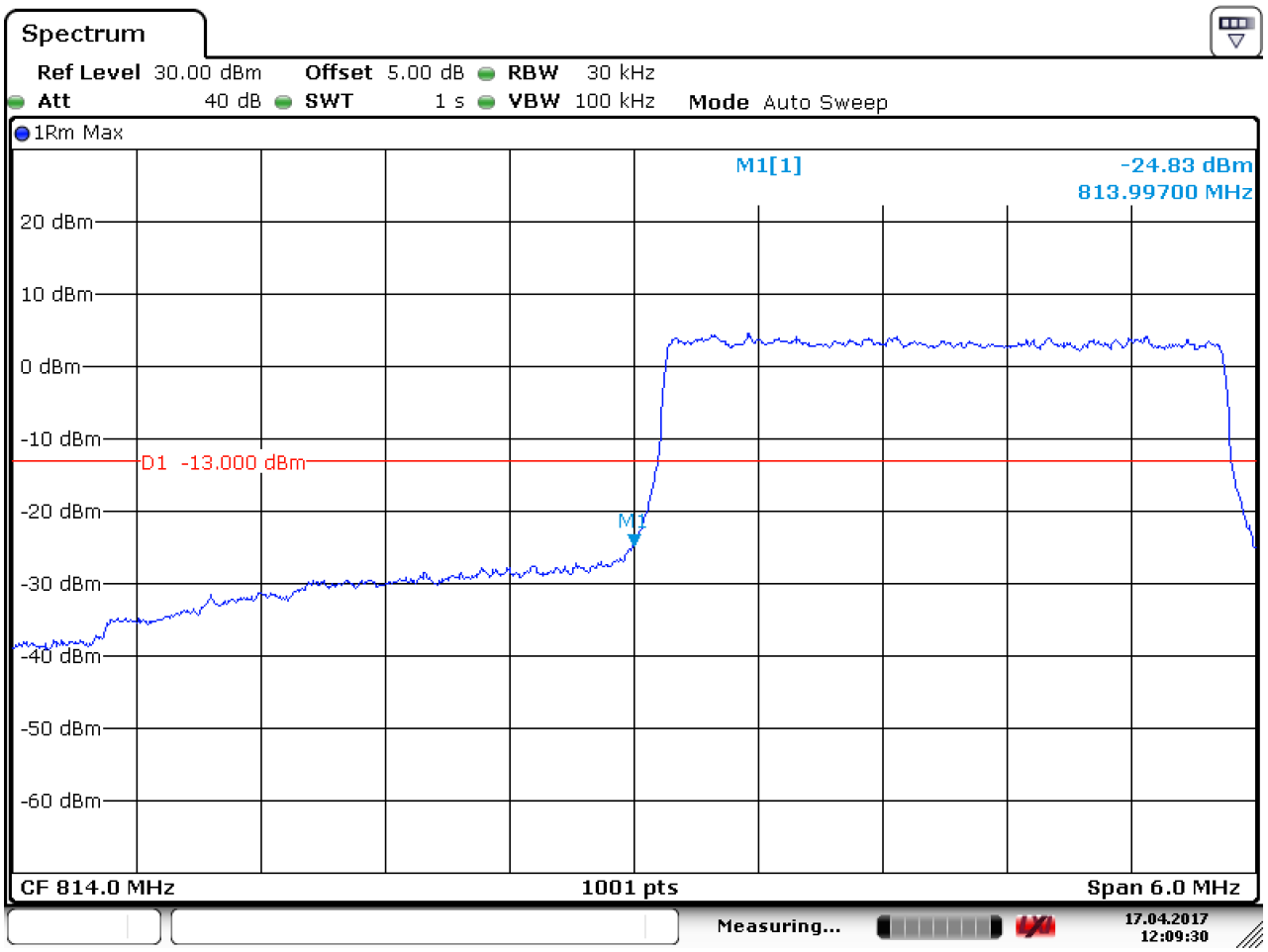
5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB



Date: 17.APR.2017 12:12:16

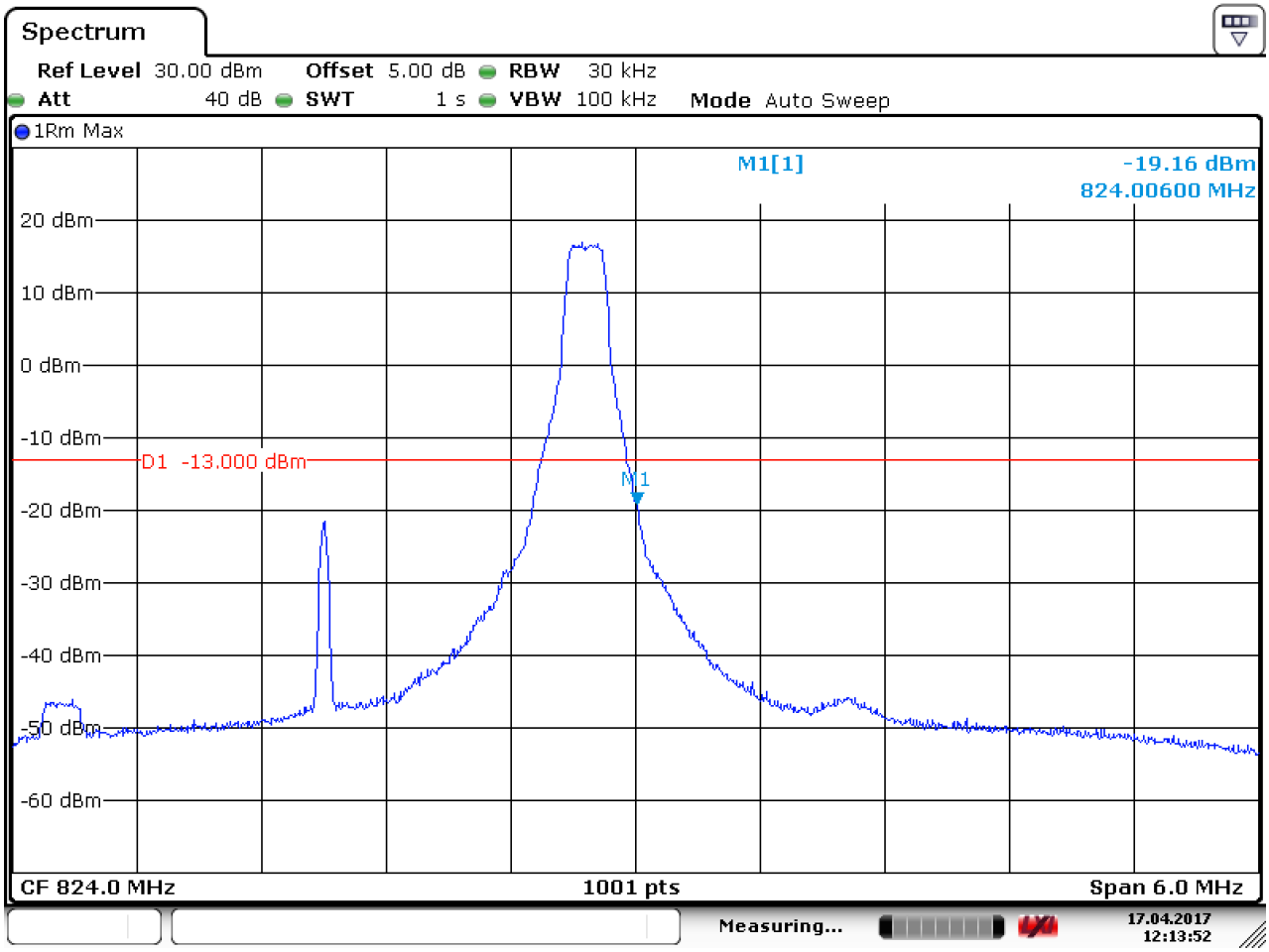
5.1.1.4.1.2 Test RB=15RB



Date: 17.APR.2017 12:09:31

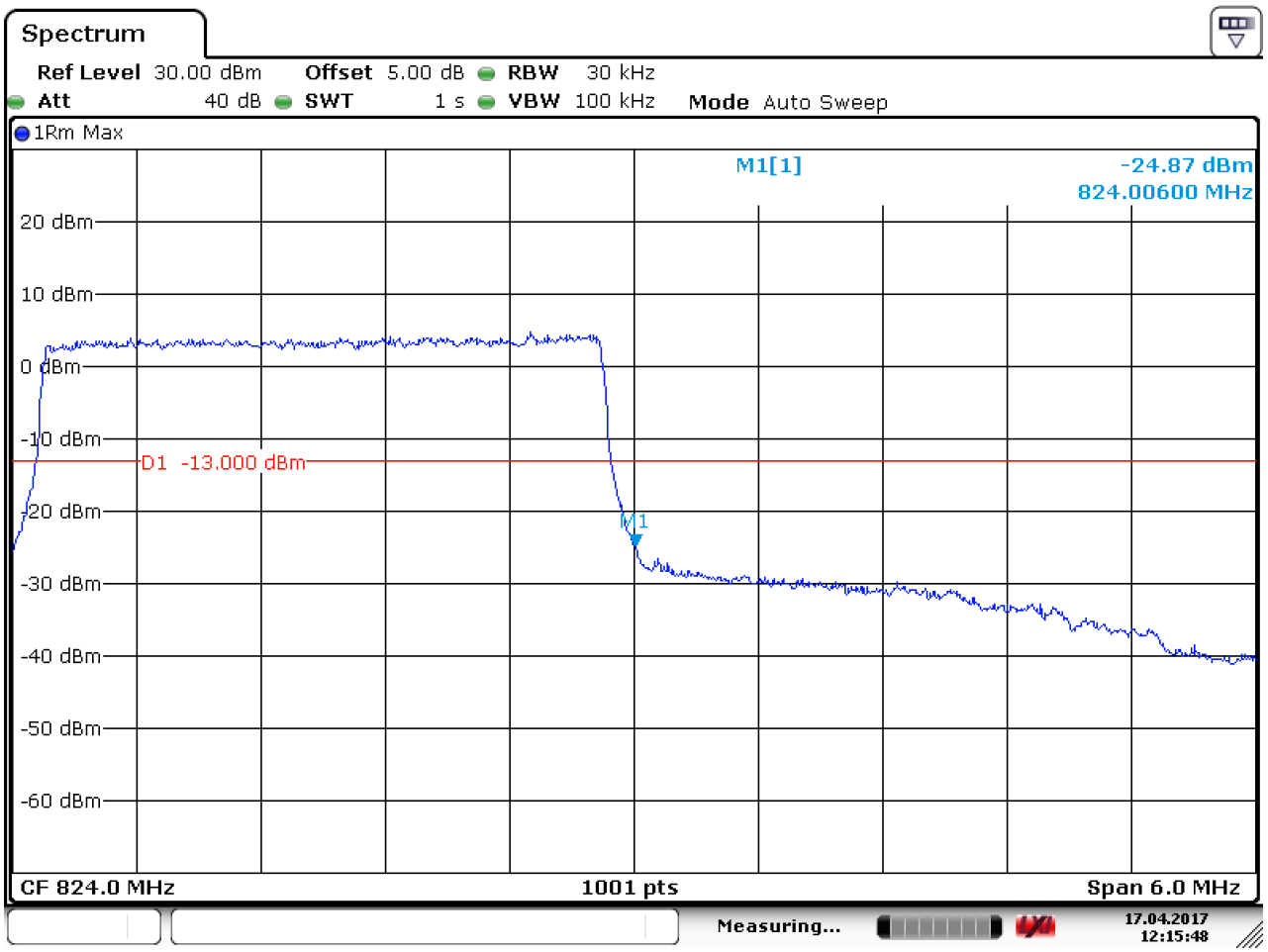
5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



Date: 17.APR.2017 12:13:51

5.1.1.4.3 Test RB=15RB

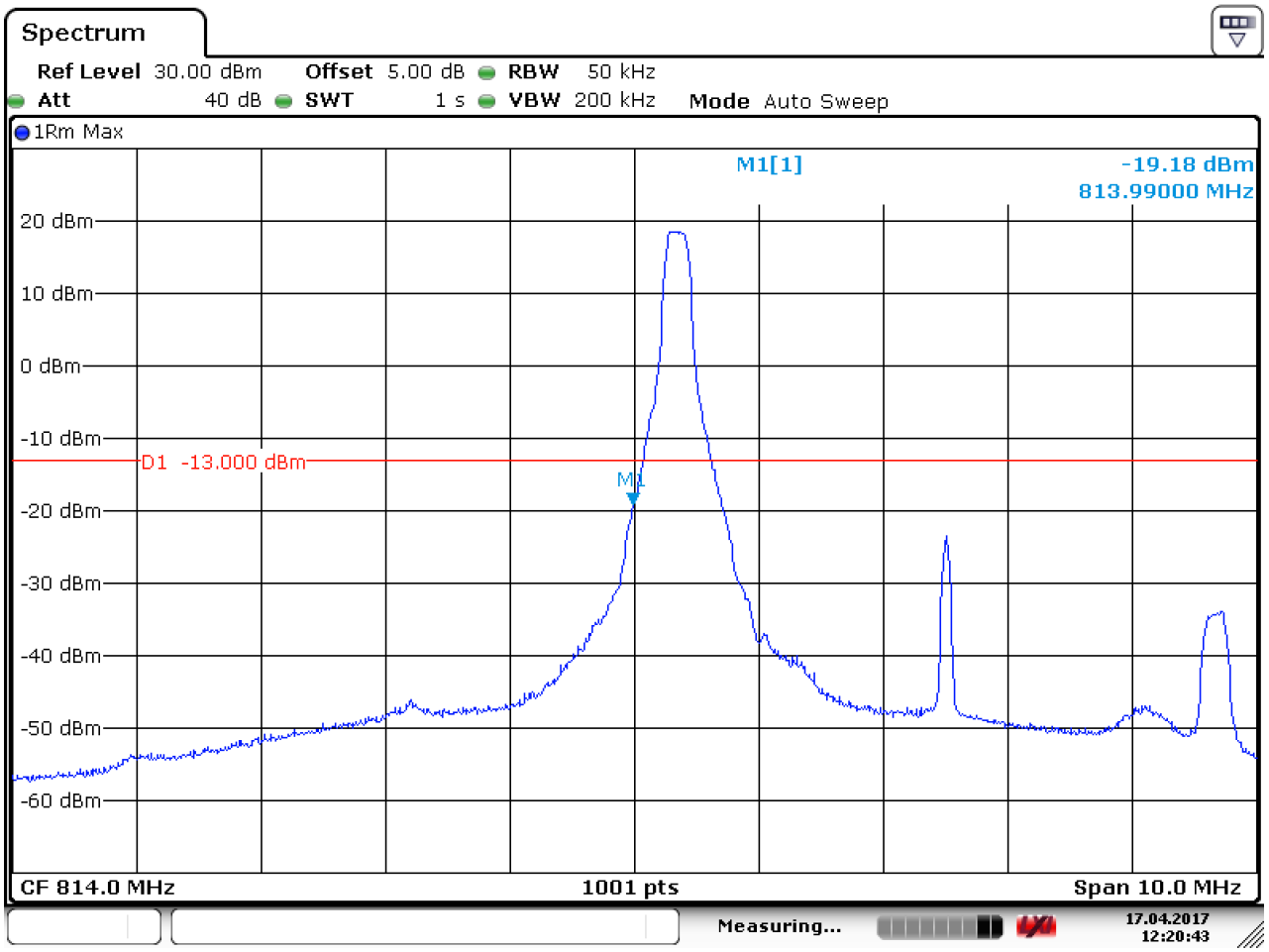


Date: 17.APR.2017 12:15:49

5.1.1.5 Test Mode = LTE/TM1 5MHz

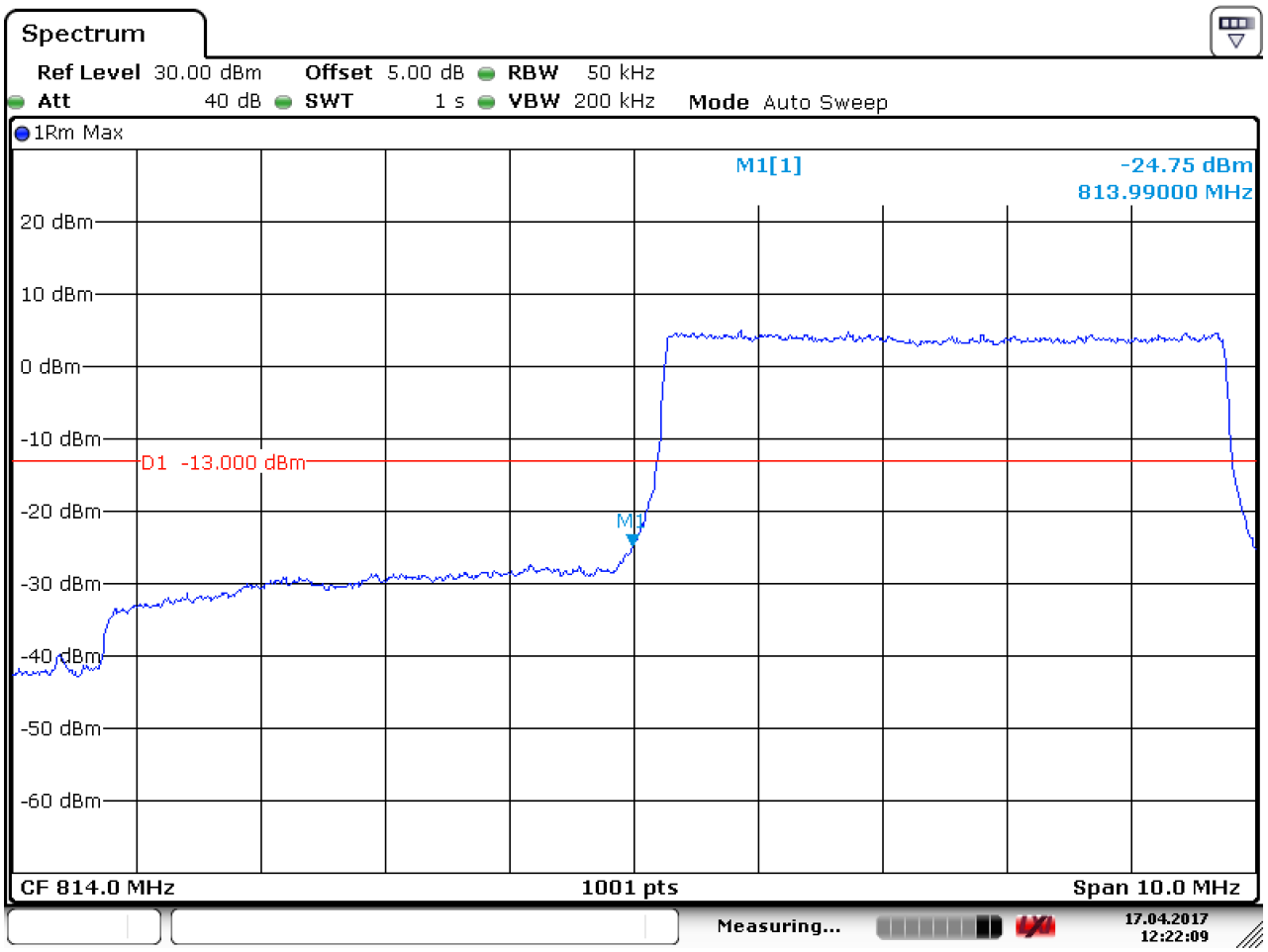
5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



Date: 17.APR.2017 12:20:43

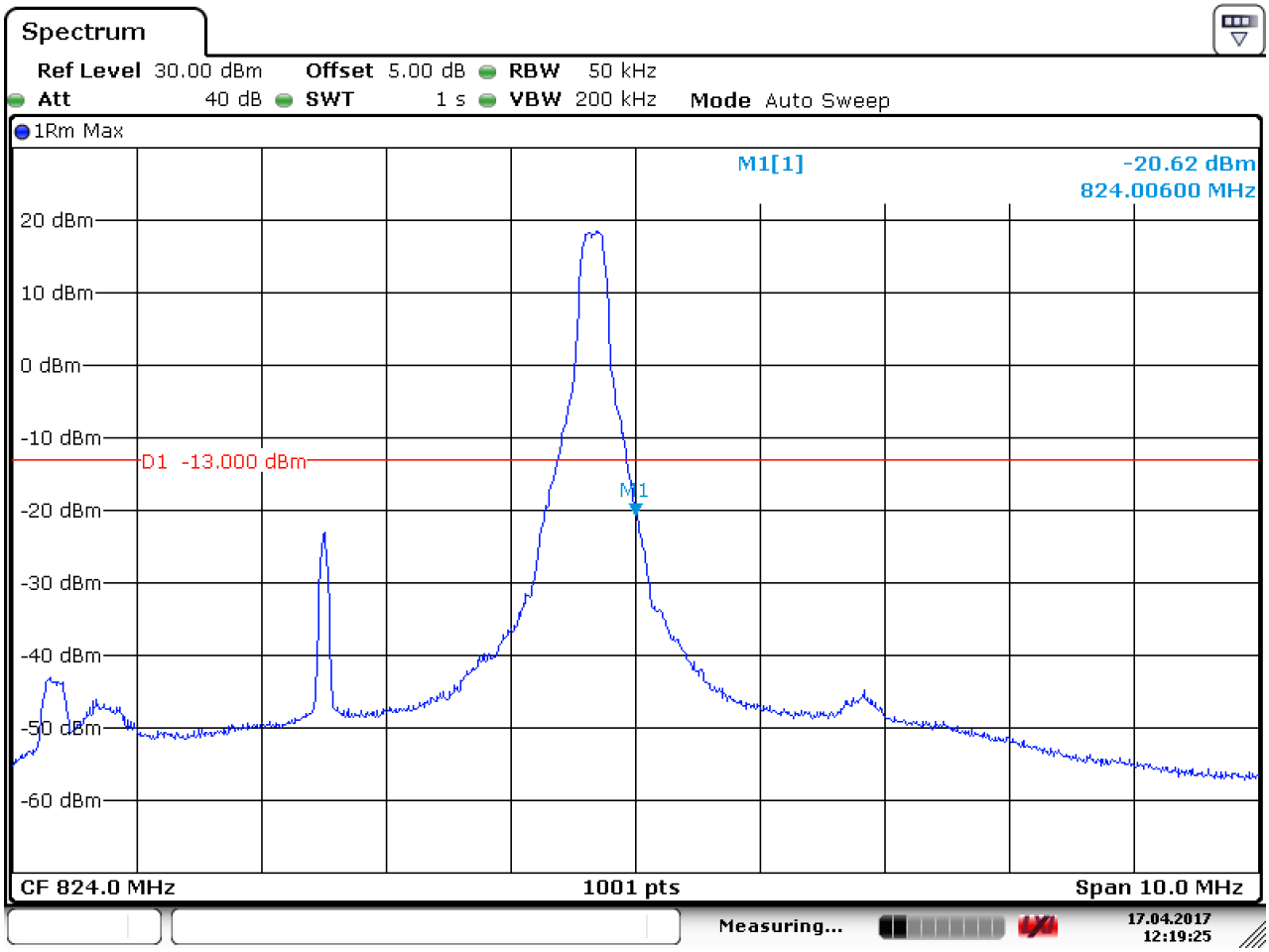
5.1.1.5.1.2 Test RB=25RB



Date: 17.APR.2017 12:22:10

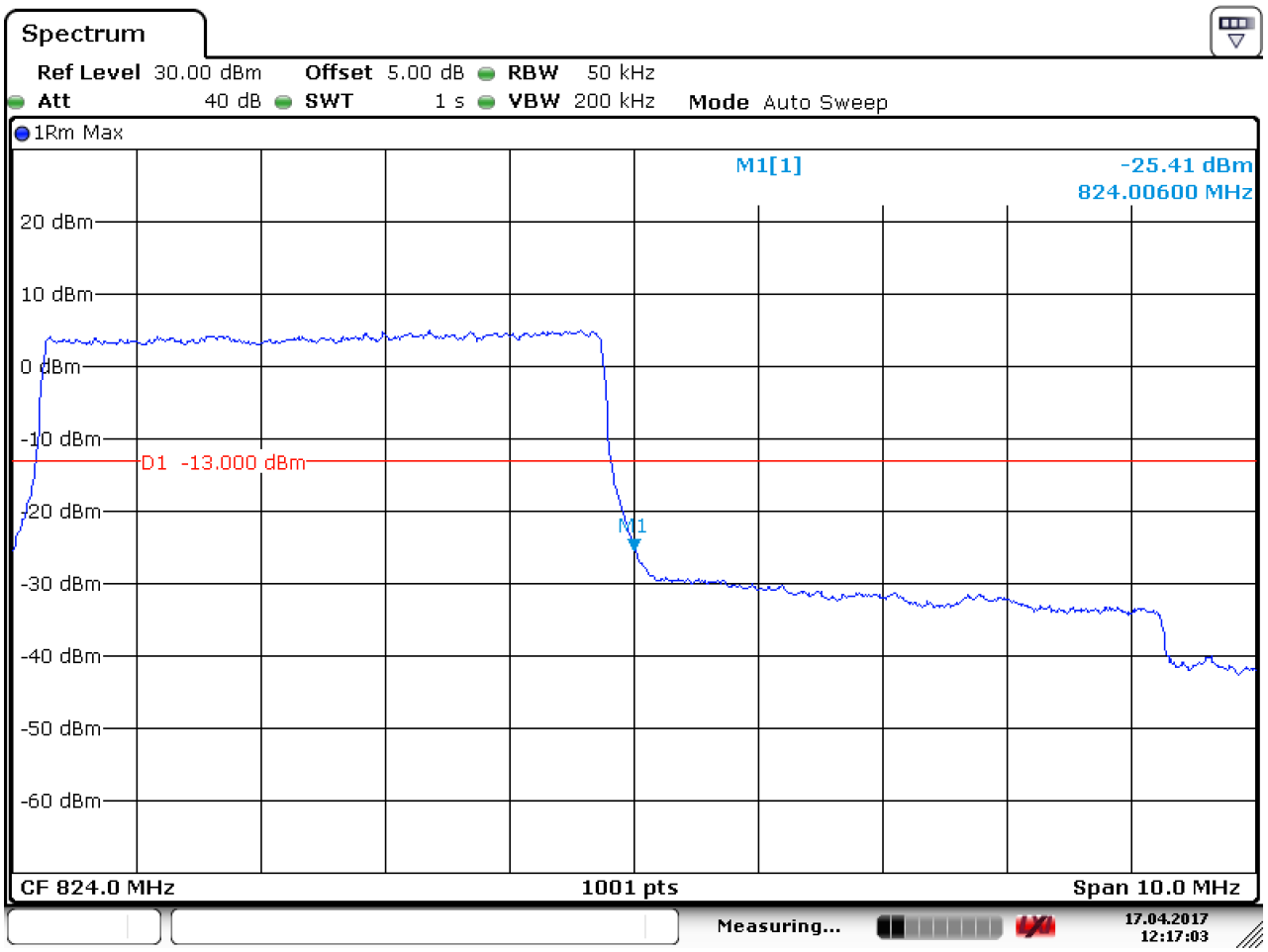
5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



Date: 17.APR.2017 12:19:26

5.1.1.5.2.2 Test RB=25RB

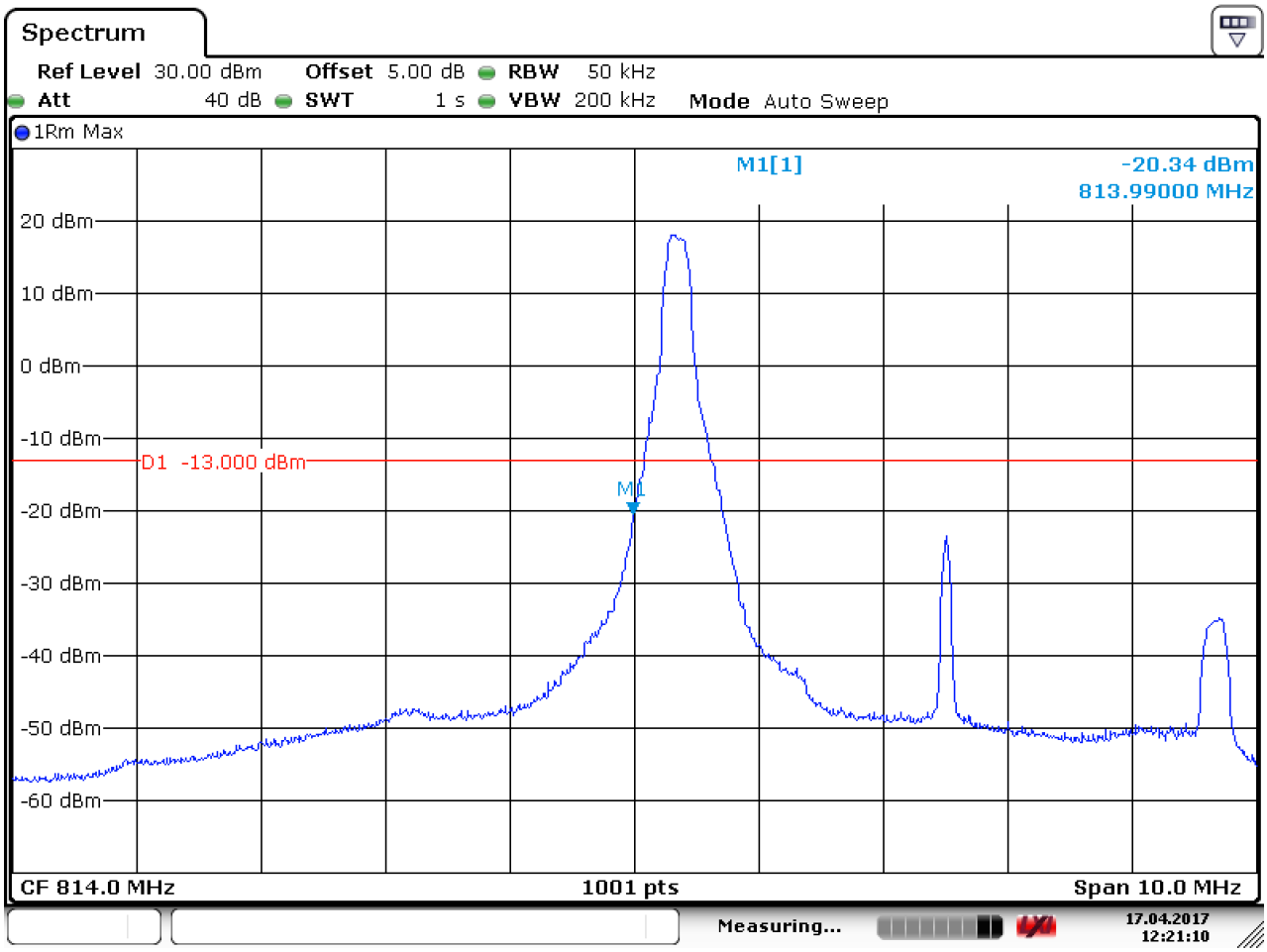


Date: 17.APR.2017 12:17:04

5.1.1.6 Test Mode = LTE/TM2 5MHz

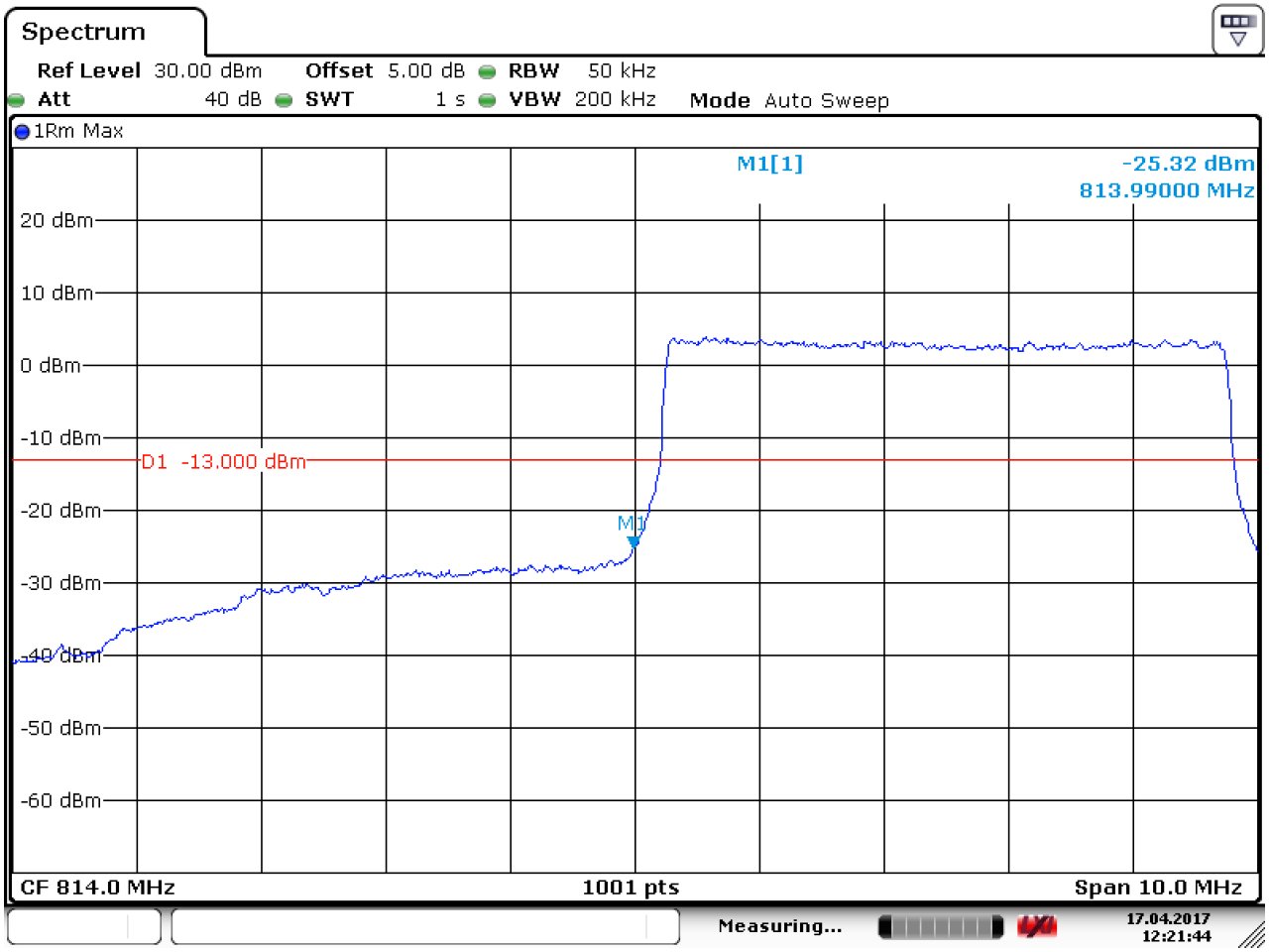
5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



Date: 17.APR.2017 12:21:10

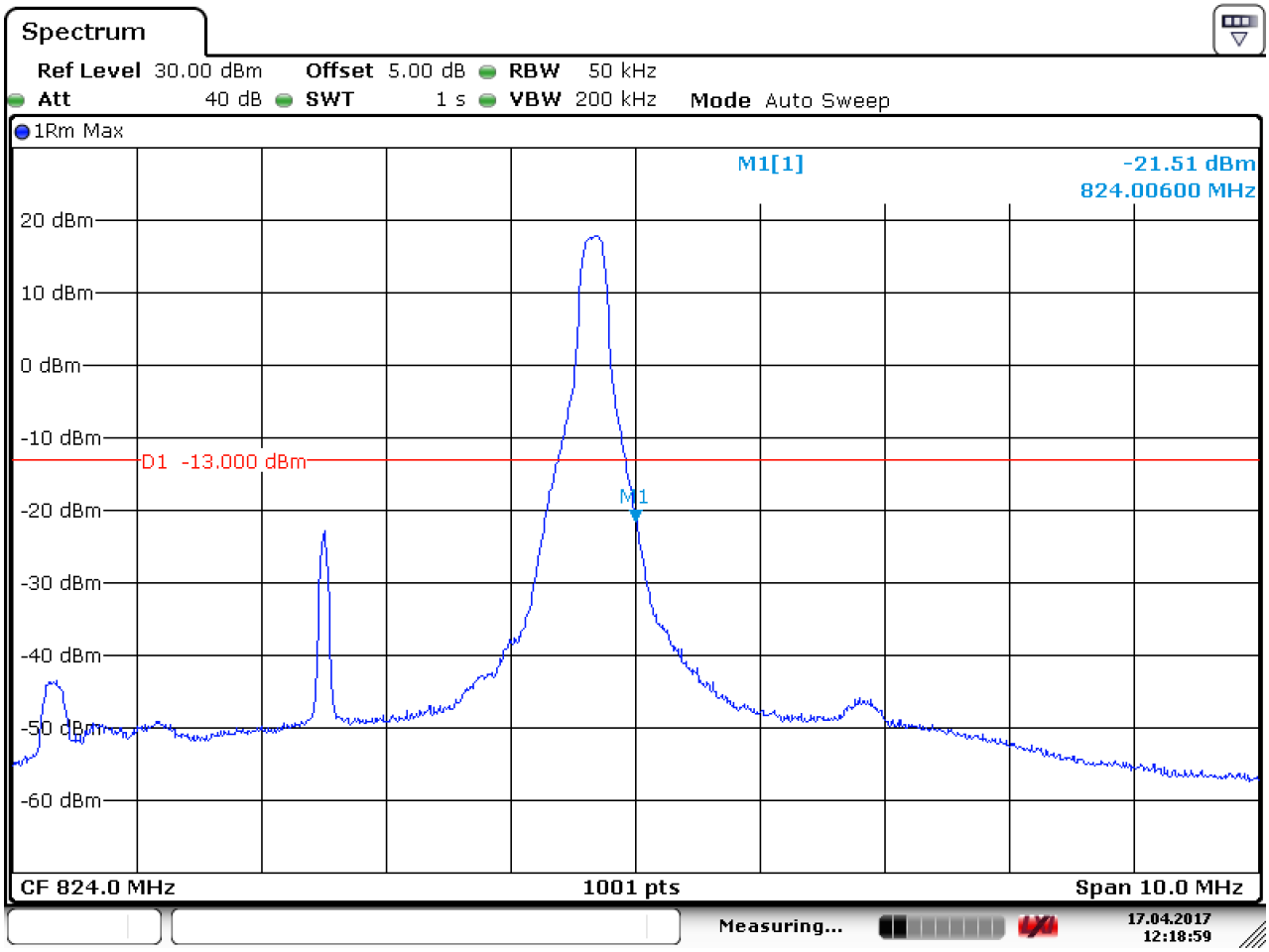
5.1.1.6.1.2 Test RB=25RB



Date: 17.APR.2017 12:21:44

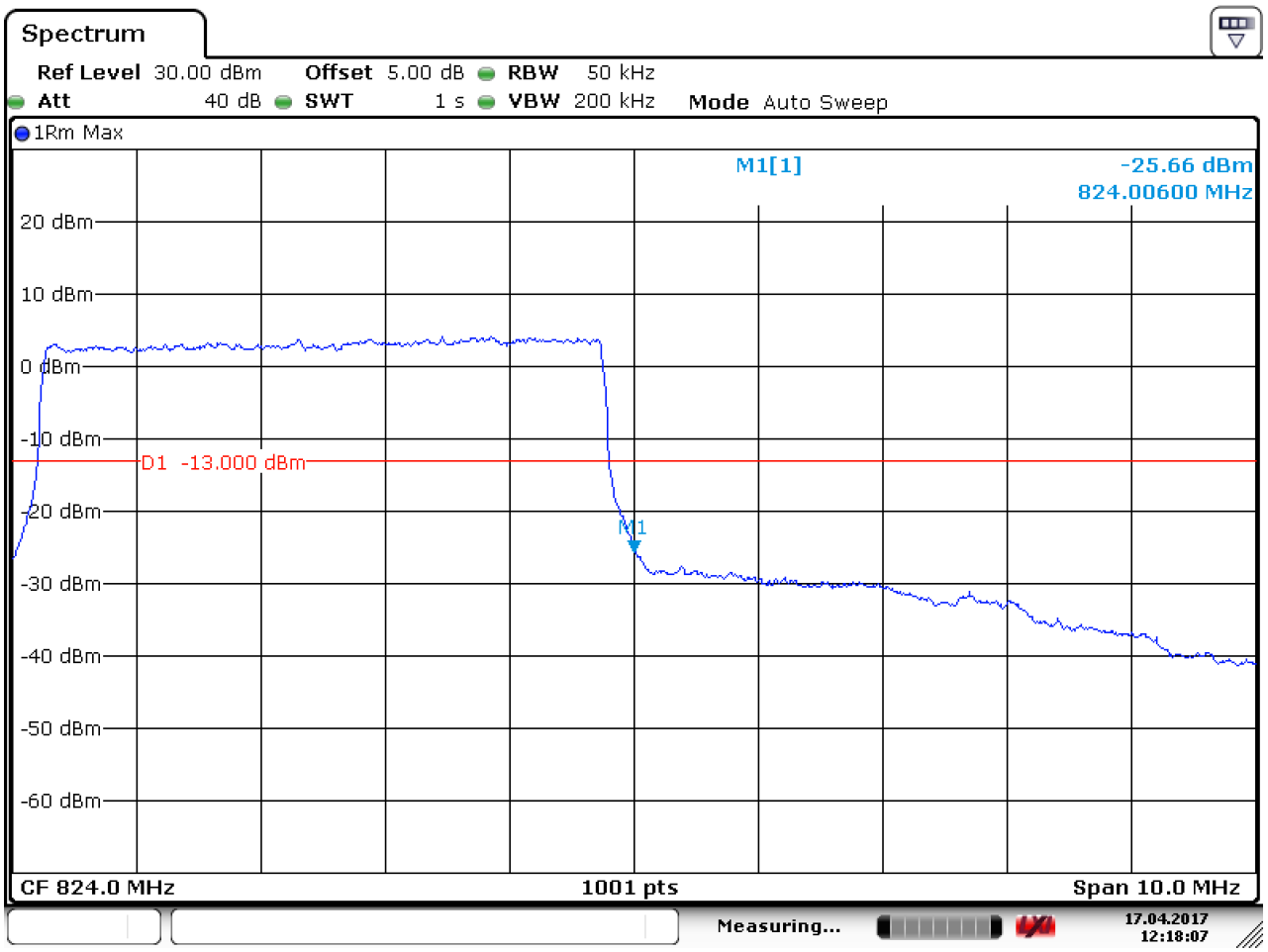
5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB



Date: 17.APR.2017 12:18:59

5.1.1.6.2.2 Test RB=25RB

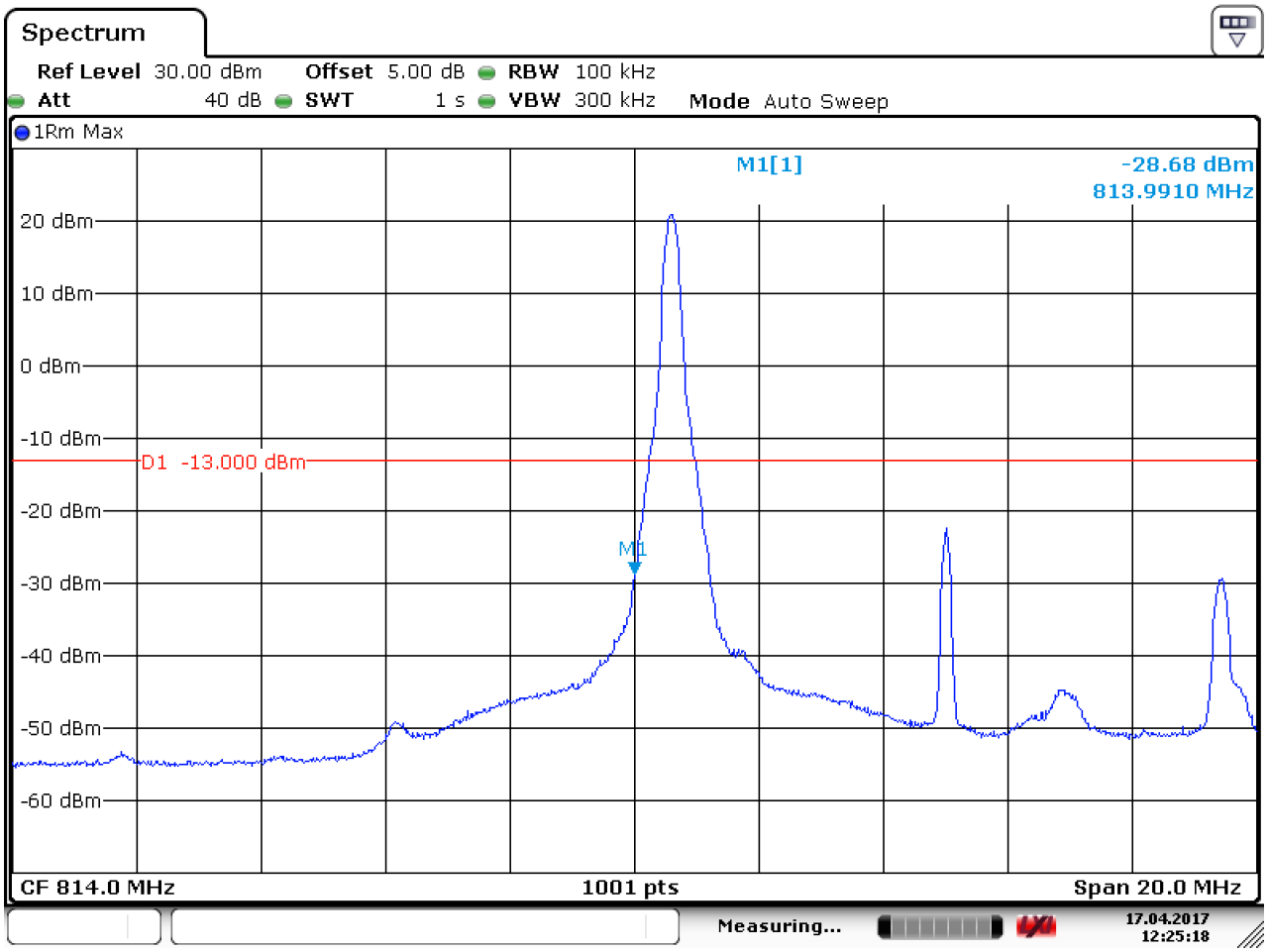


Date: 17.APR.2017 12:18:07

5.1.1.7 Test Mode = LTE/TM1 10MHz

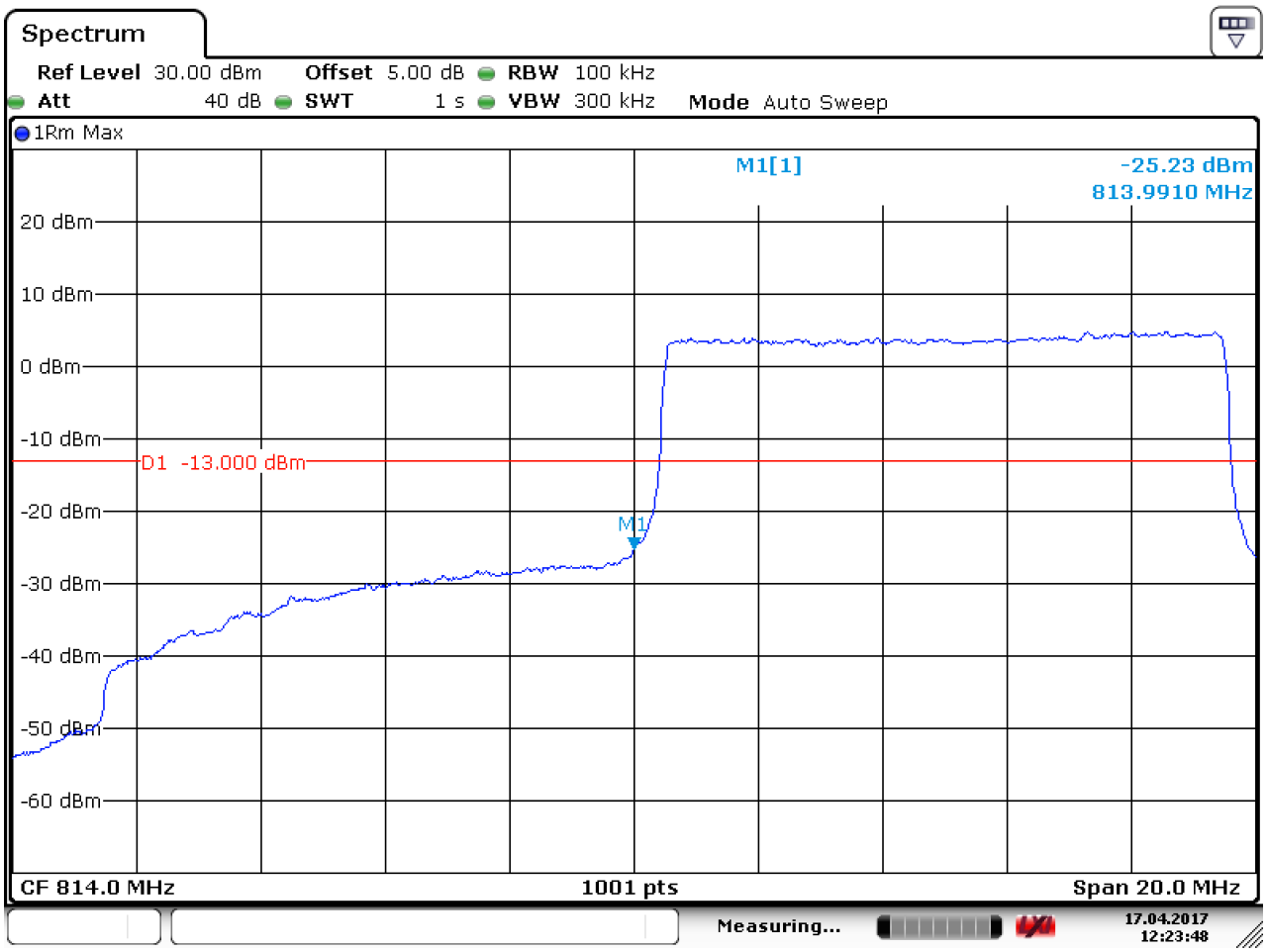
5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



Date: 17.APR.2017 12:25:18

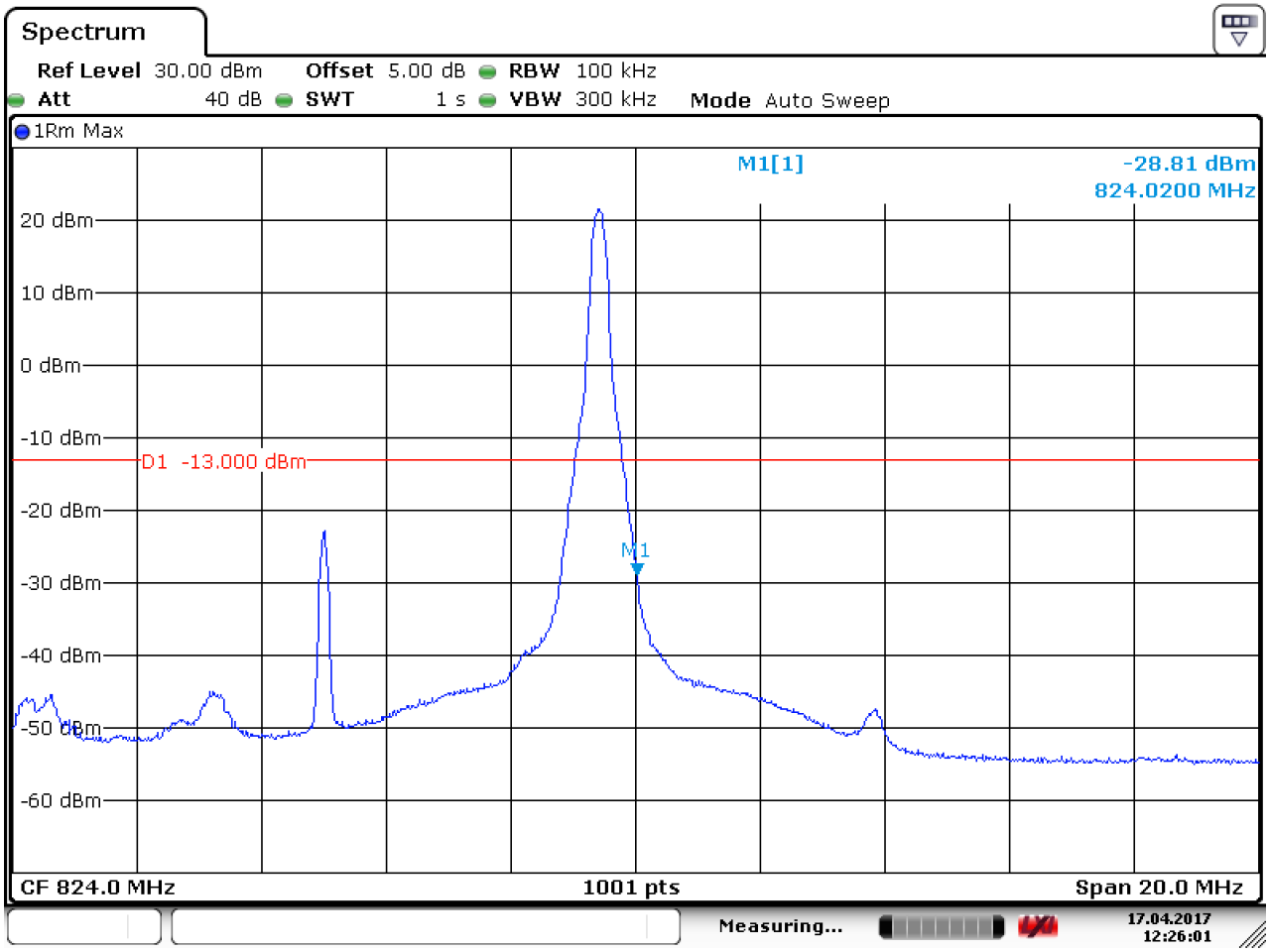
5.1.1.7.1.2 Test RB=50RB



Date: 17.APR.2017 12:23:48

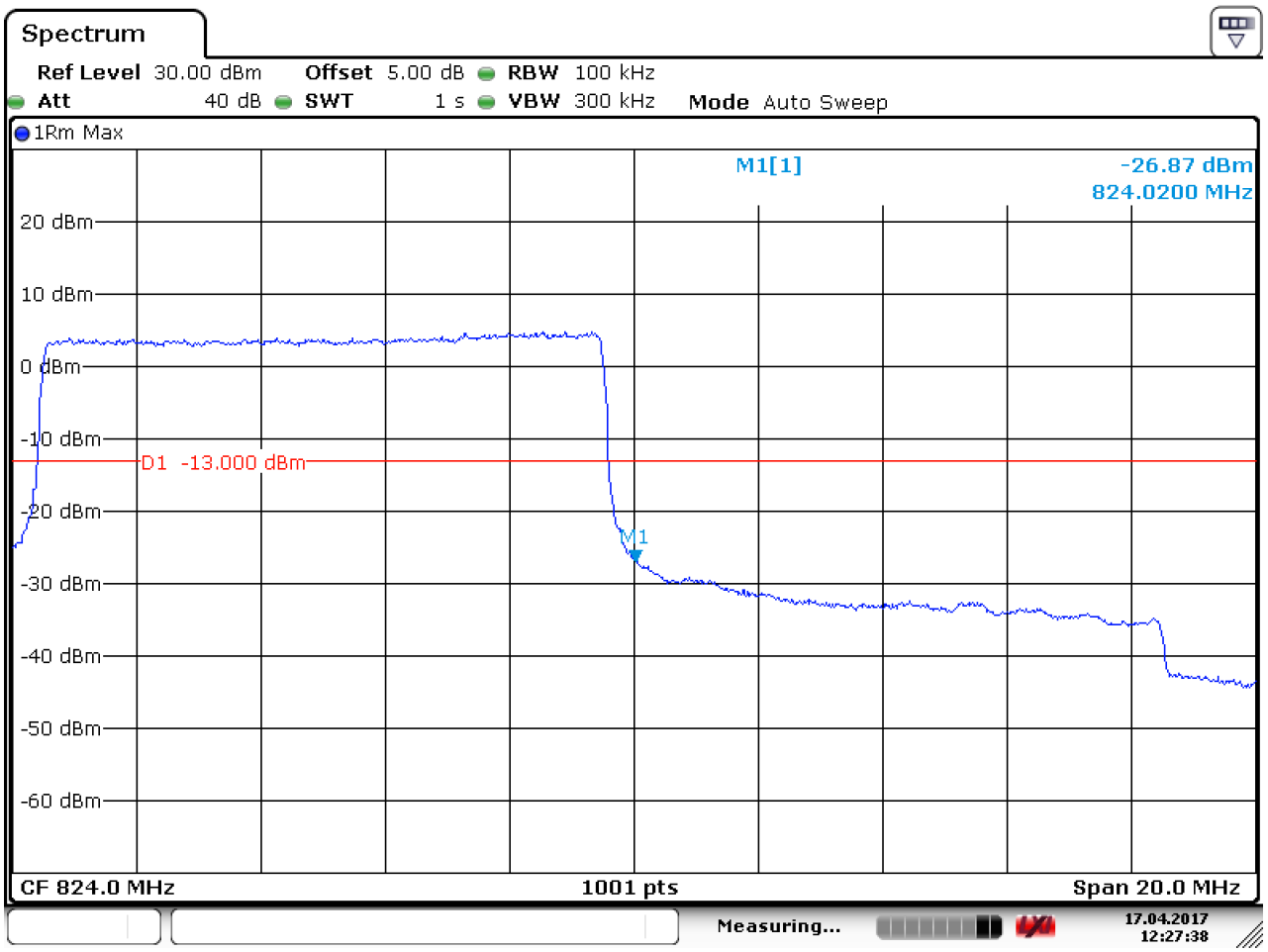
5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



Date: 17.APR.2017 12:26:01

5.1.1.7.2.2 Test RB=50RB

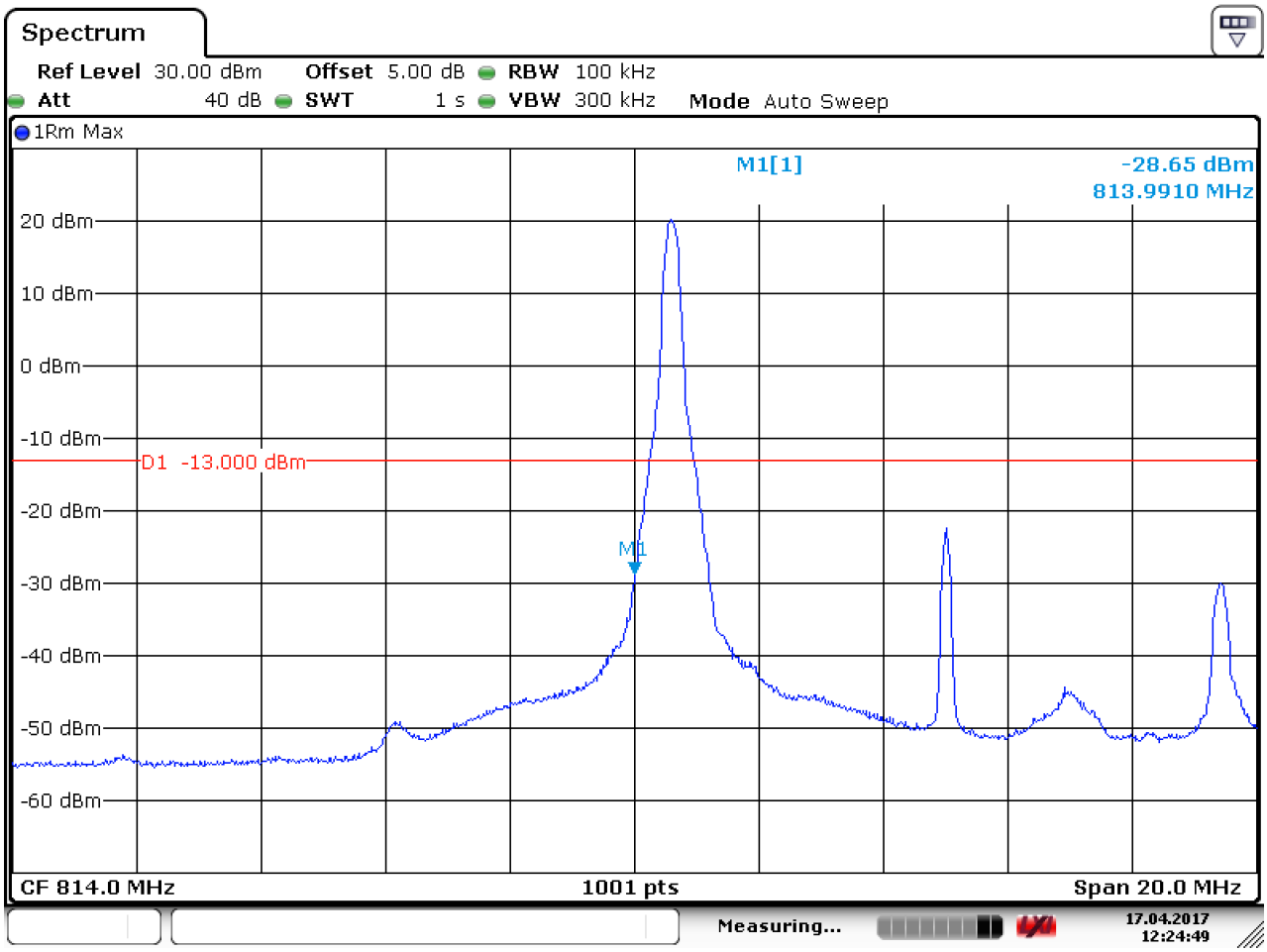


Date: 17.APR.2017 12:27:38

5.1.1.8 Test Mode = LTE/TM2 10MHz

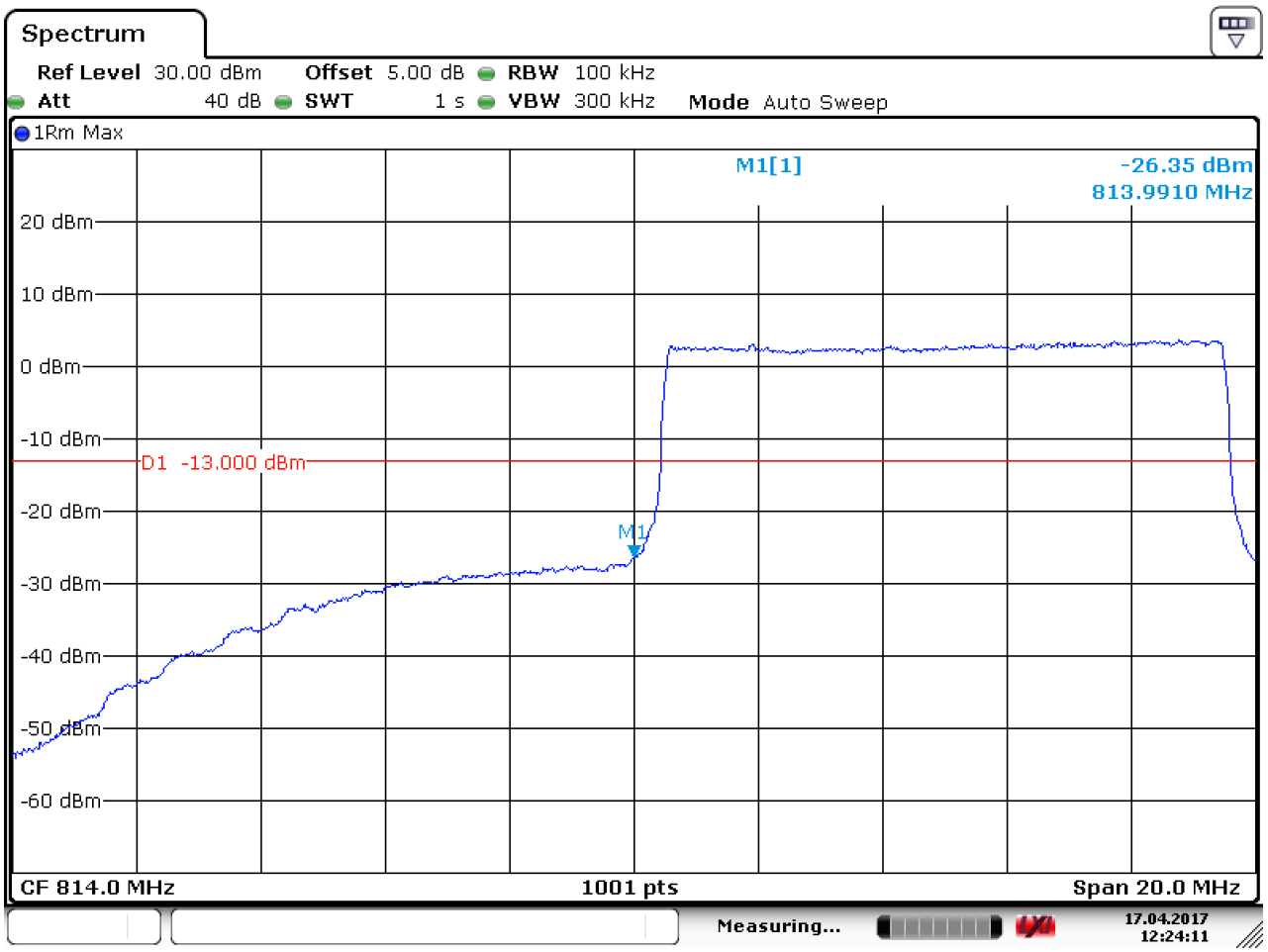
5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



Date: 17.APR.2017 12:24:49

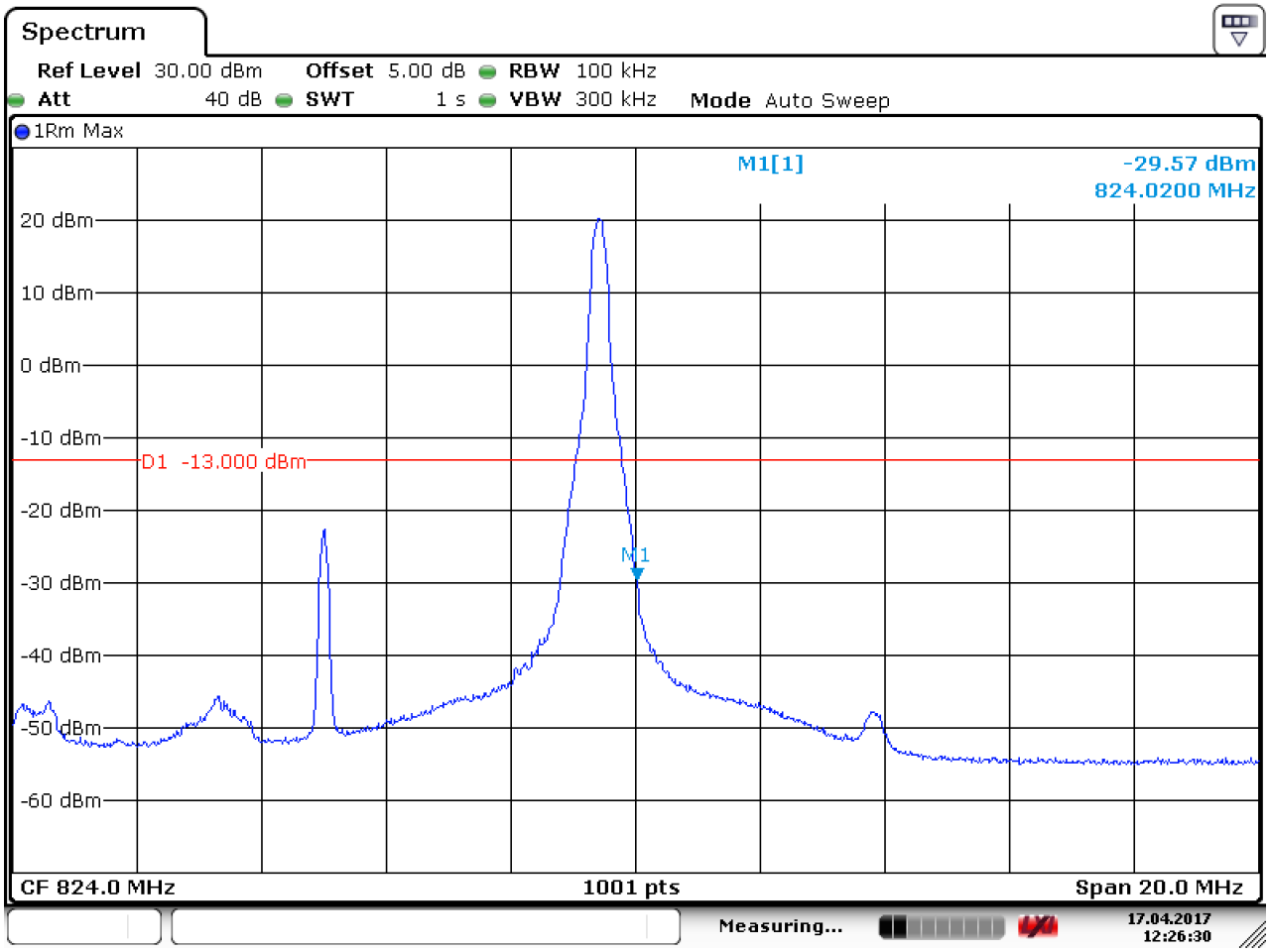
5.1.1.8.1.2 Test RB=50RB



Date: 17.APR.2017 12:24:12

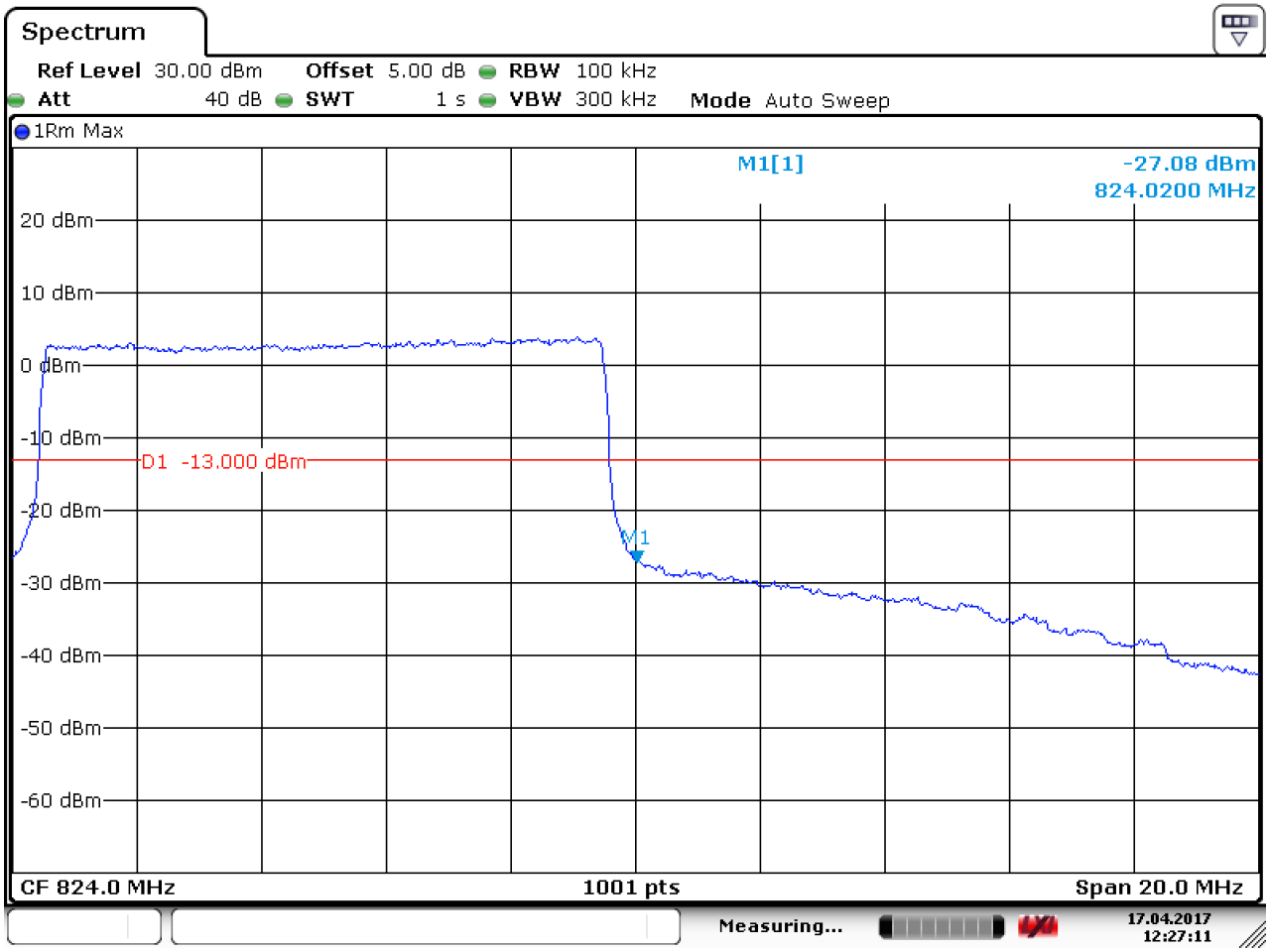
5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



Date: 17.APR.2017 12:26:30

5.1.1.8.2.2 Test RB=50RB



Date: 17.APR.2017 12:27:11

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.

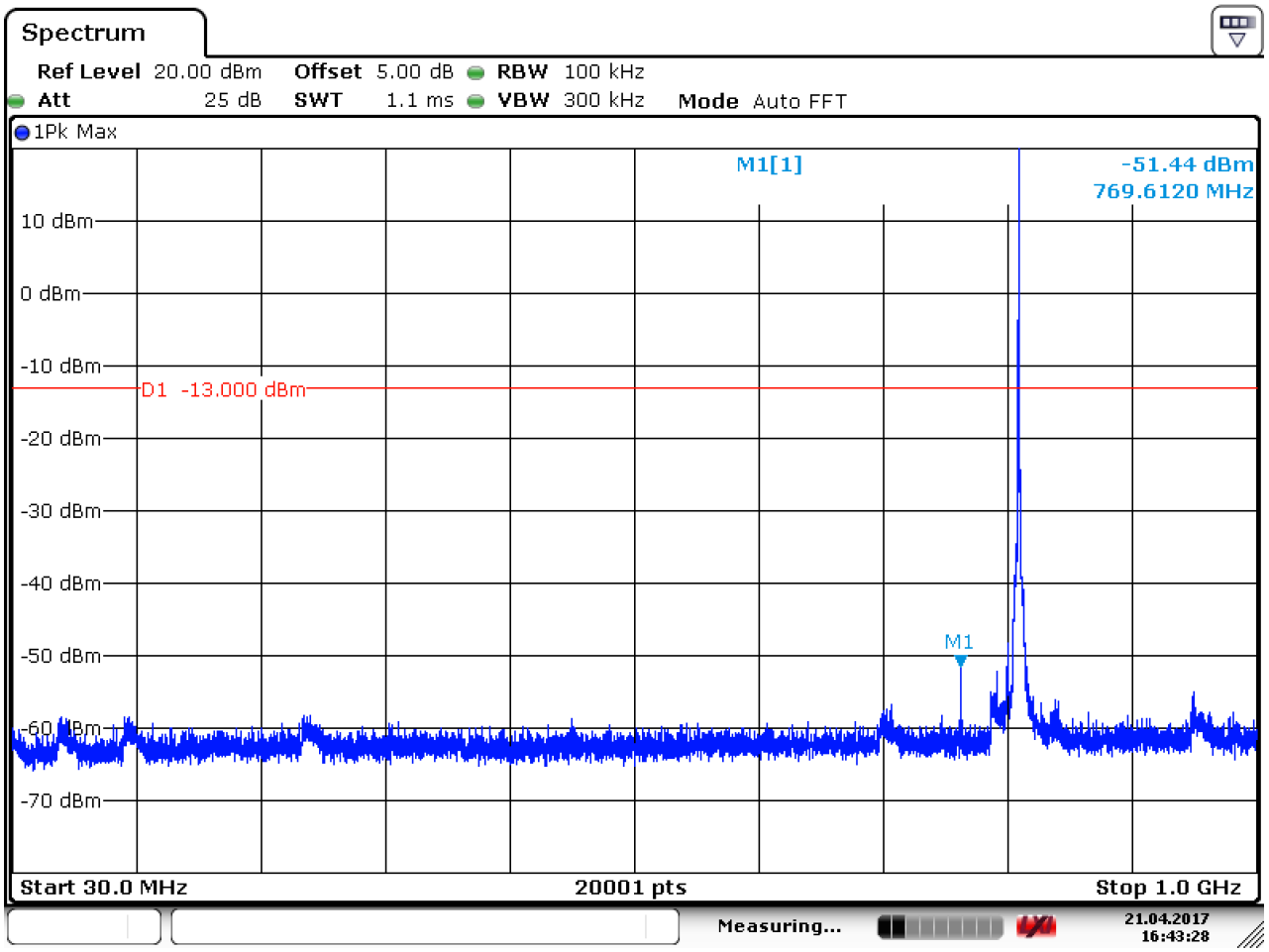
Part I - Test Plots

6.1 For LTE

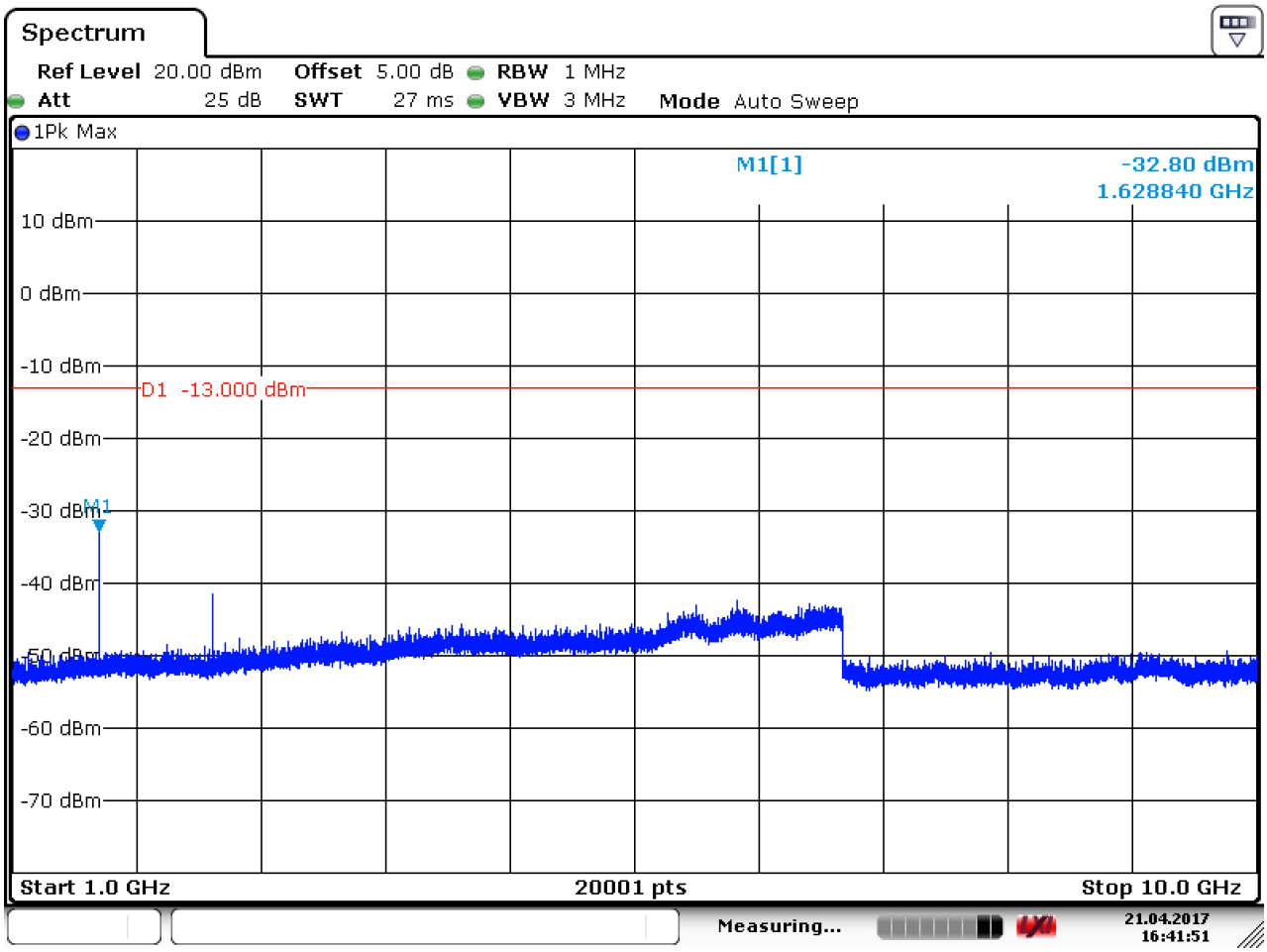
6.1.1 Test Band = LTE band26(814-824)

6.1.1.1 Test Mode = LTE / TM1 1.4MHz RB1#0

6.1.1.1.1 Test Channel = LCH

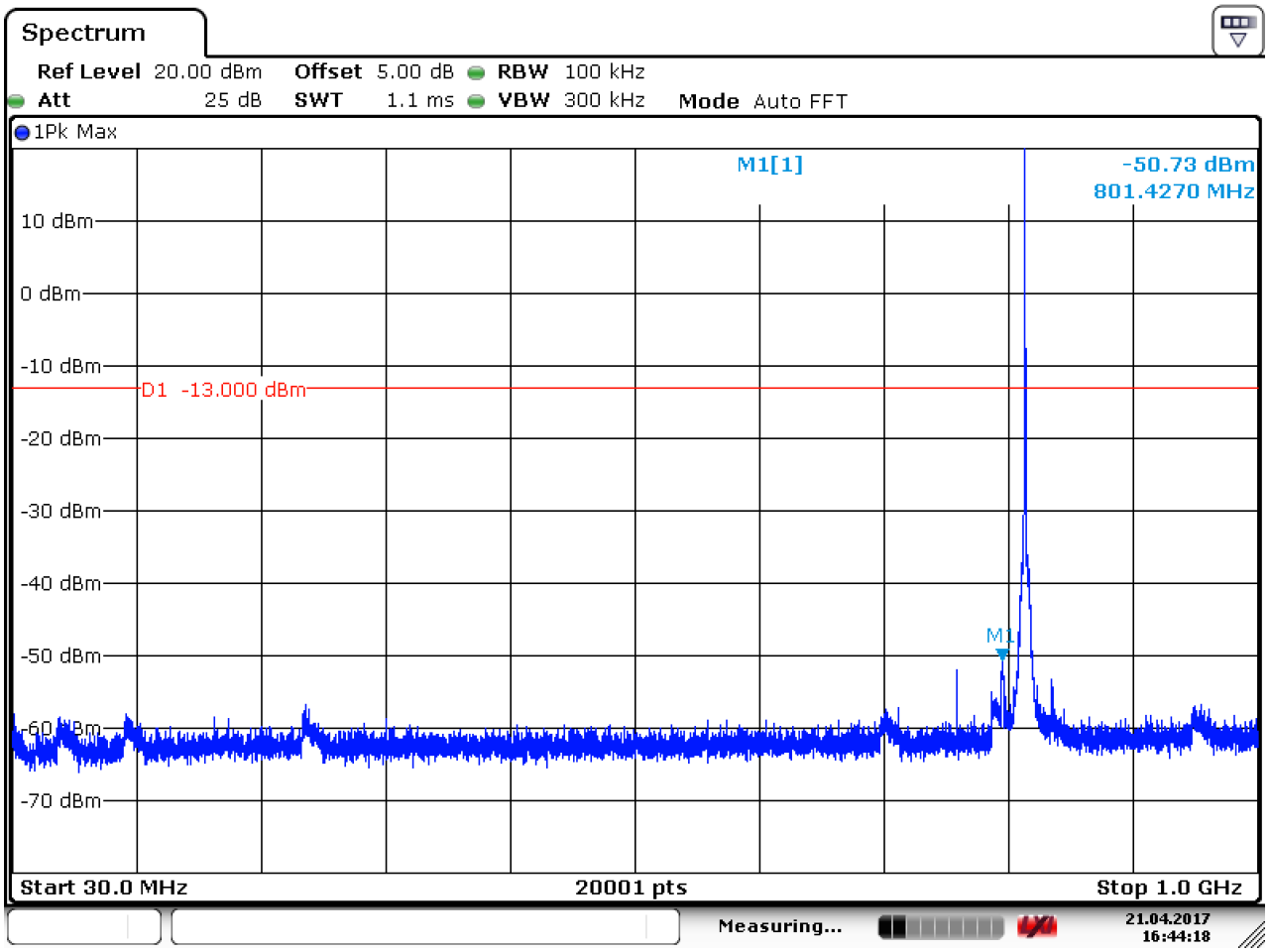


Date: 21.APR.2017 16:43:29

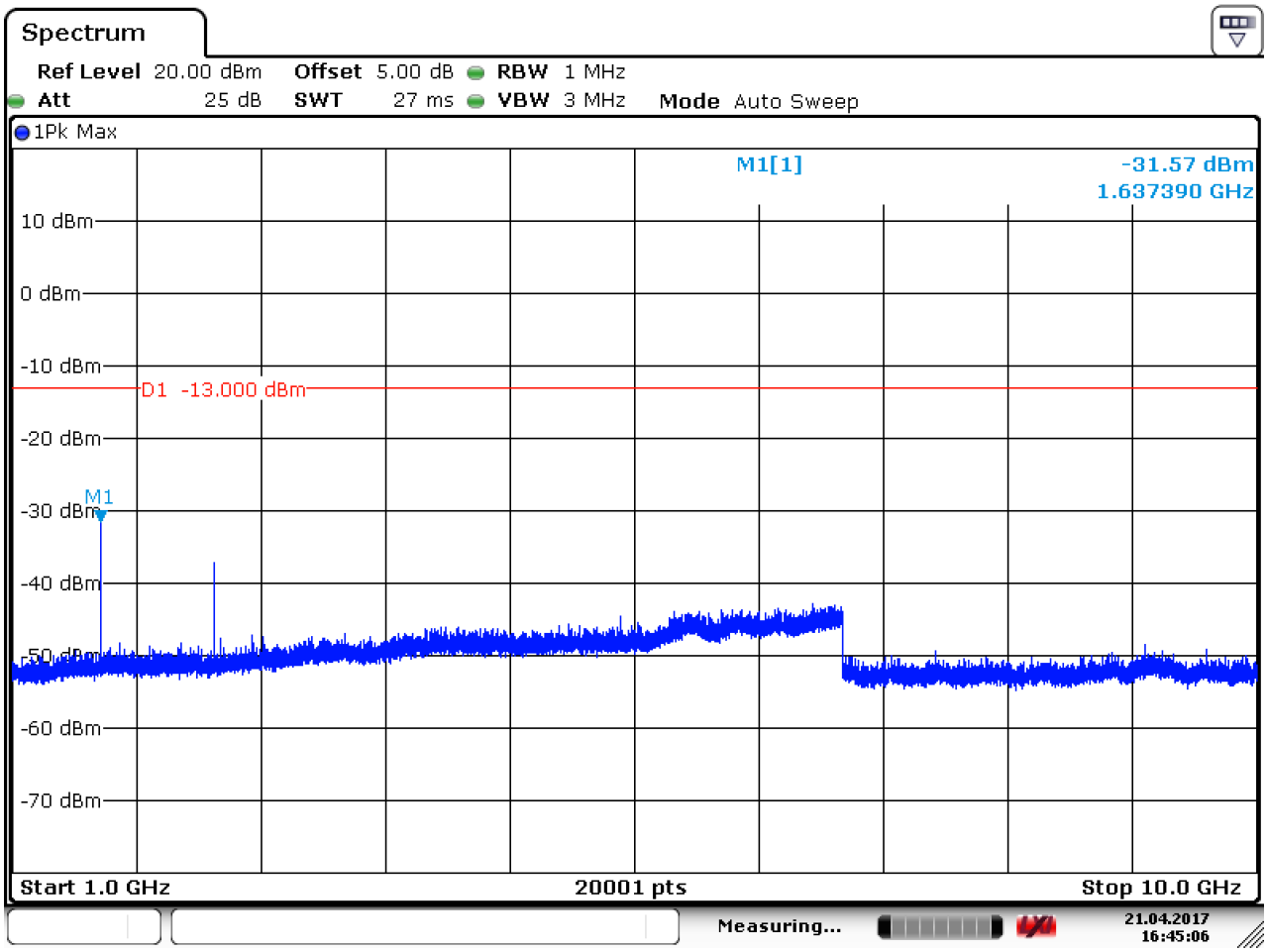


Date: 21.APR.2017 16:41:51

6.1.1.1.2 Test Channel = MCH

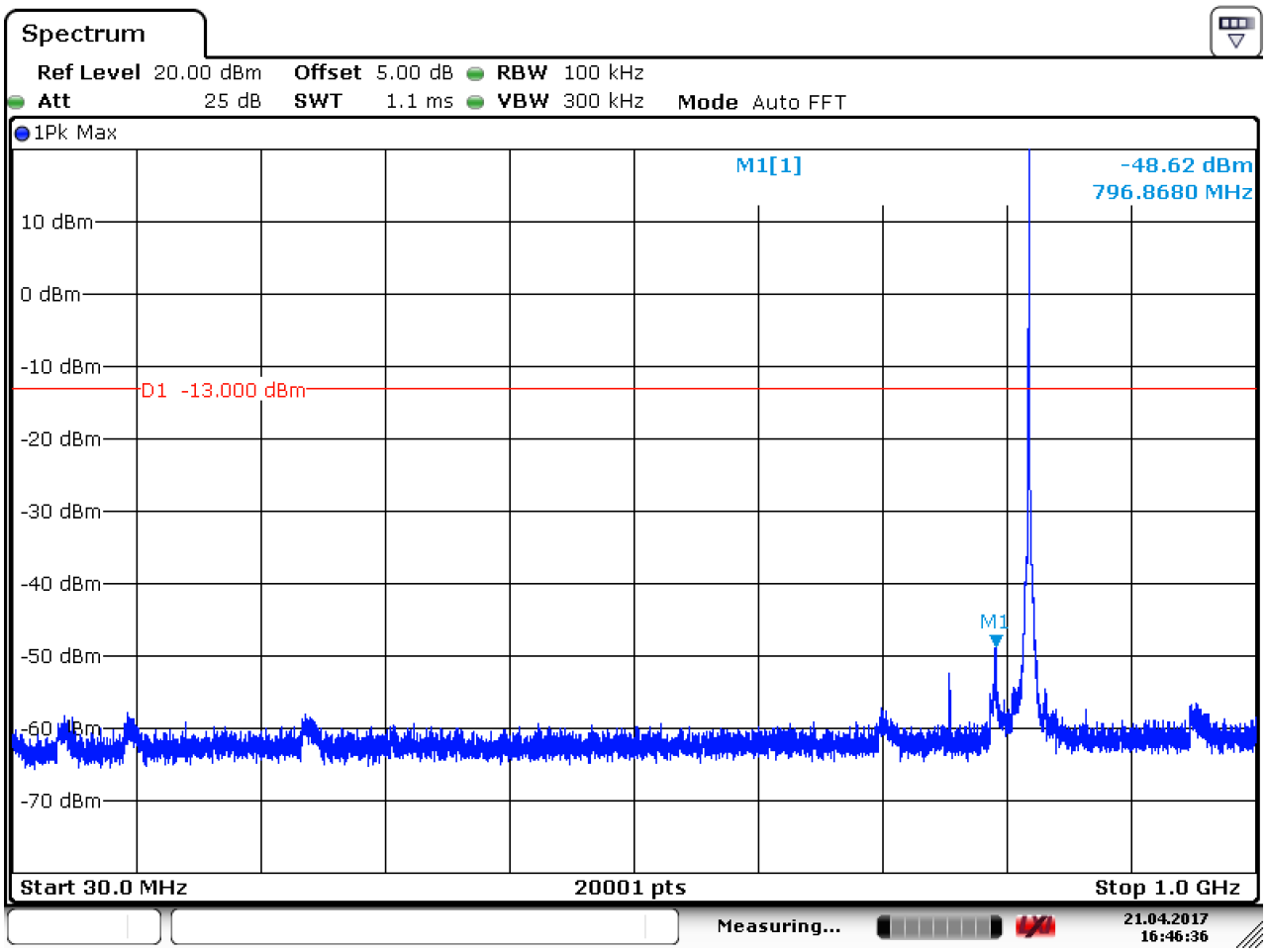


Date: 21.APR.2017 16:44:18

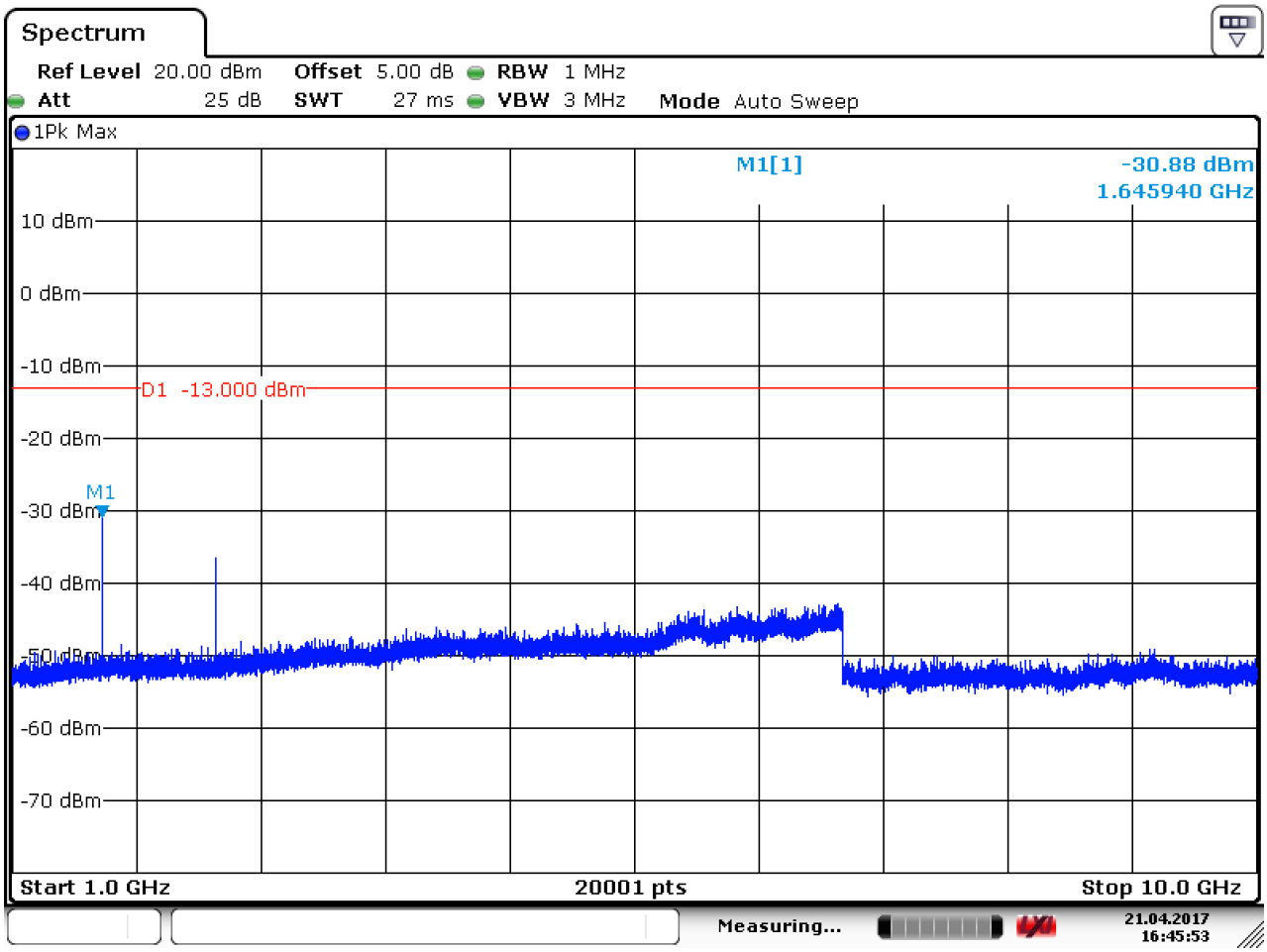


Date: 21.APR.2017 16:45:06

6.1.1.1.3 Test Channel = HCH



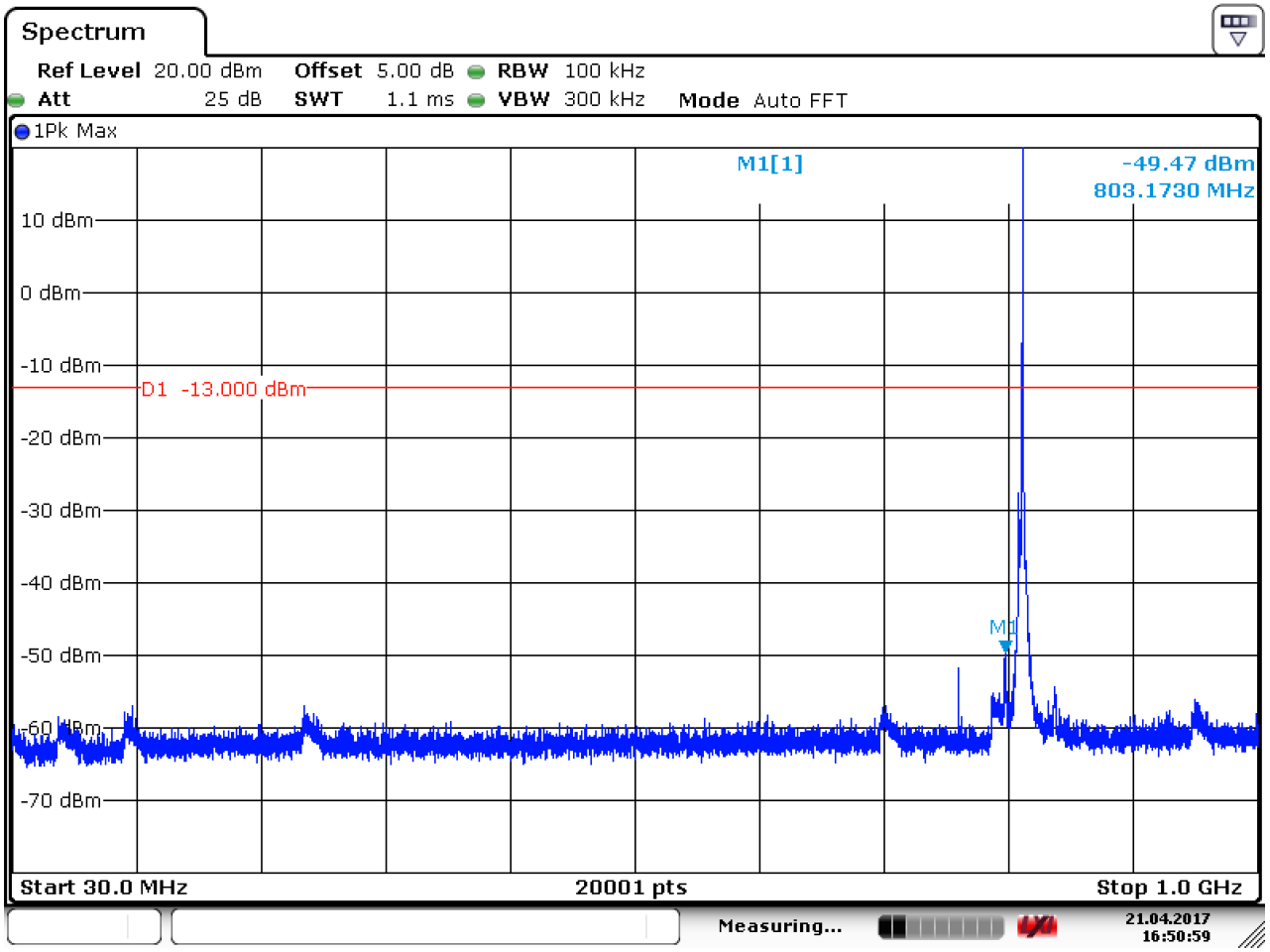
Date: 21.APR.2017 16:46:36



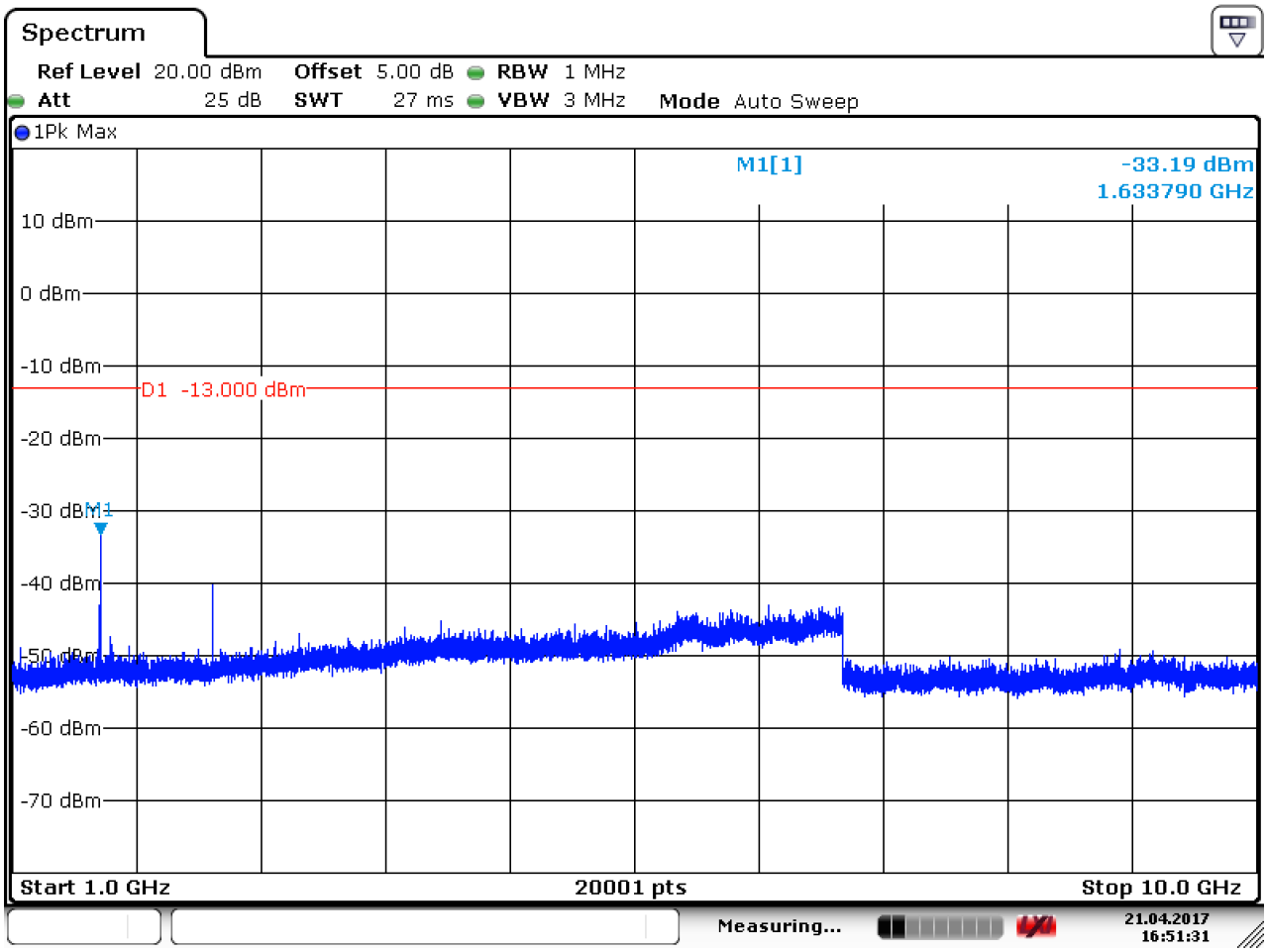
Date: 21.APR.2017 16:45:53

6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0

6.1.1.2.1 Test Channel = LCH

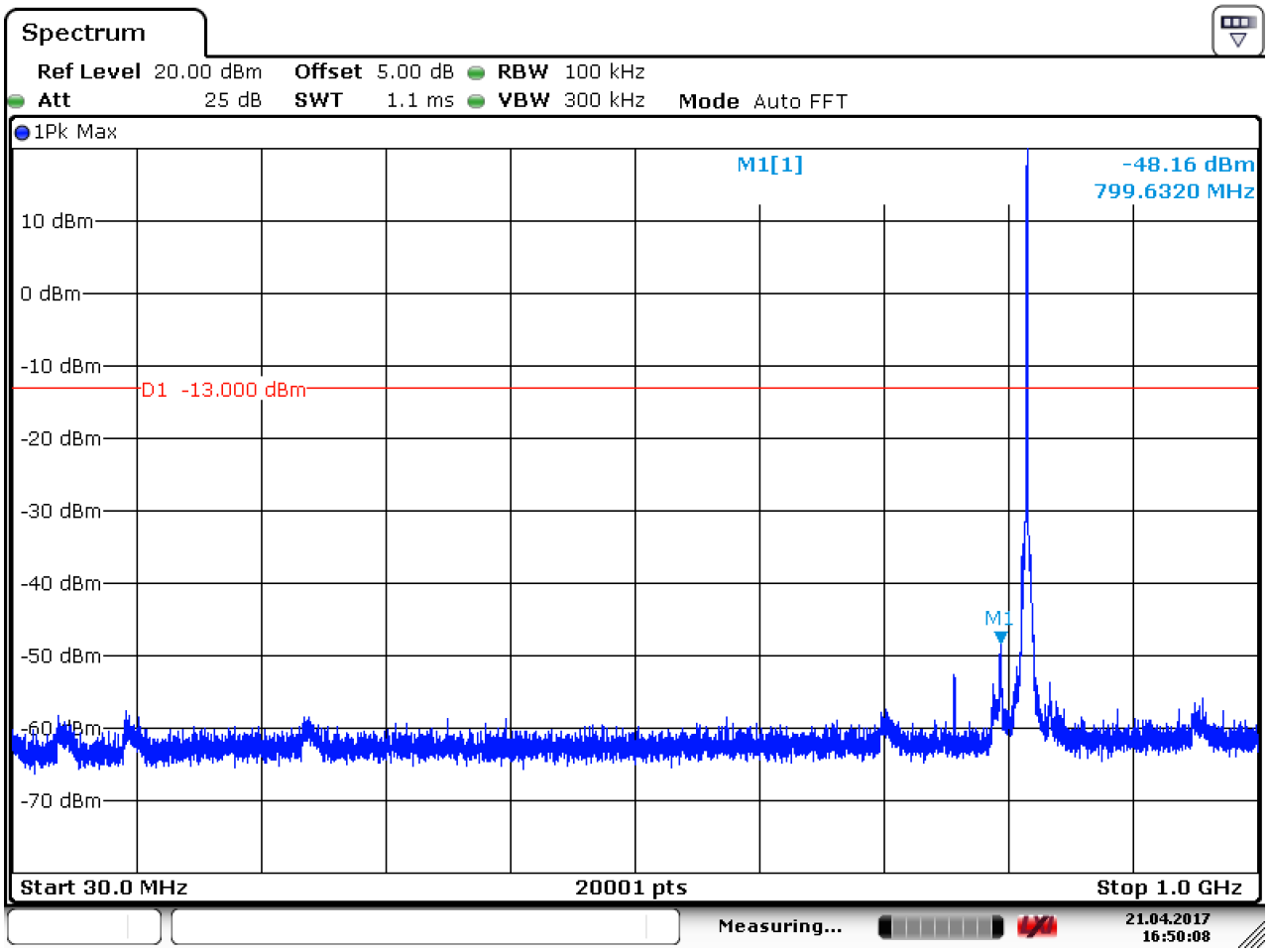


Date: 21.APR.2017 16:50:59

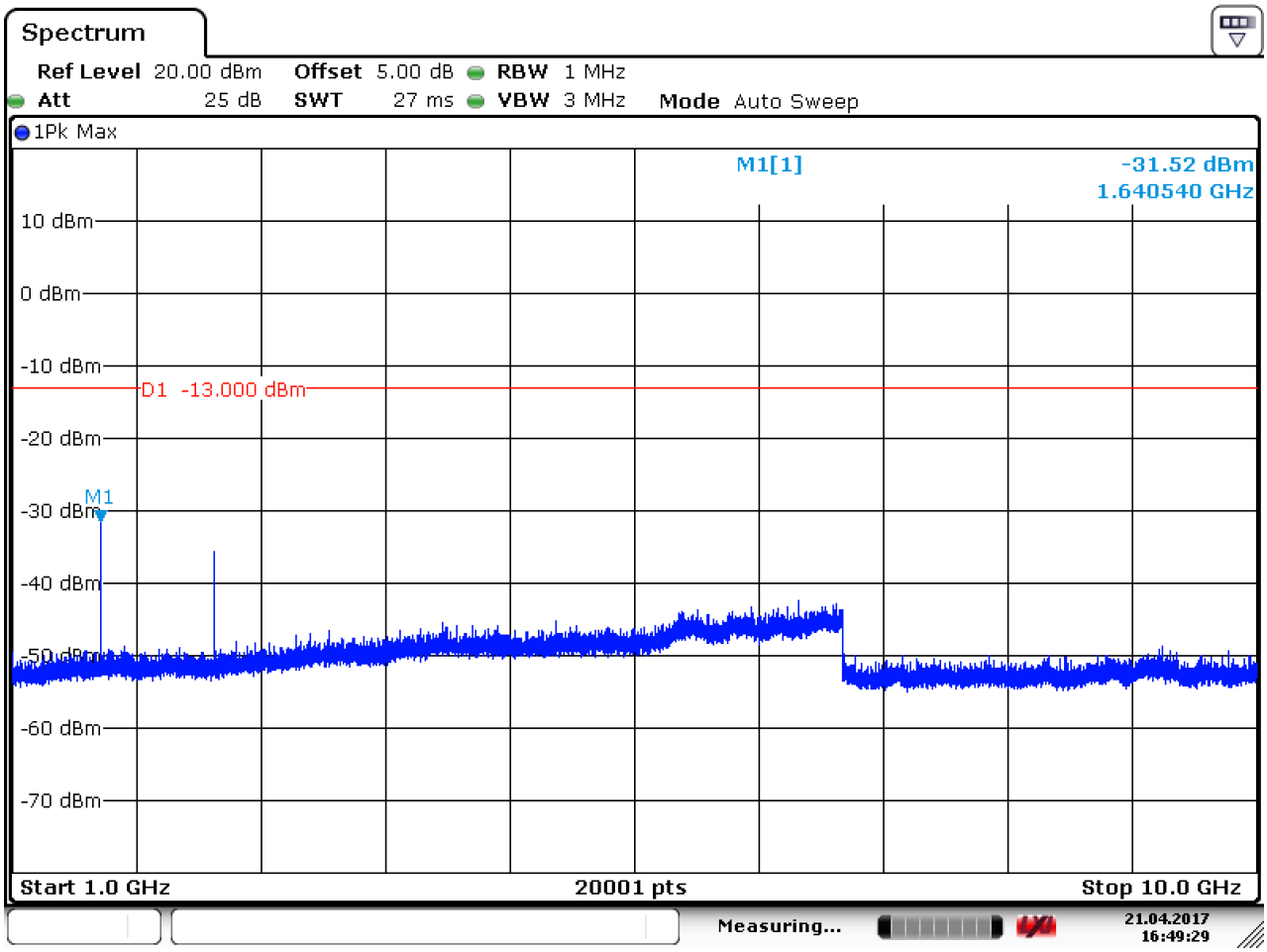


Date: 21.APR.2017 16:51:32

6.1.1.2.2 Test Channel = MCH

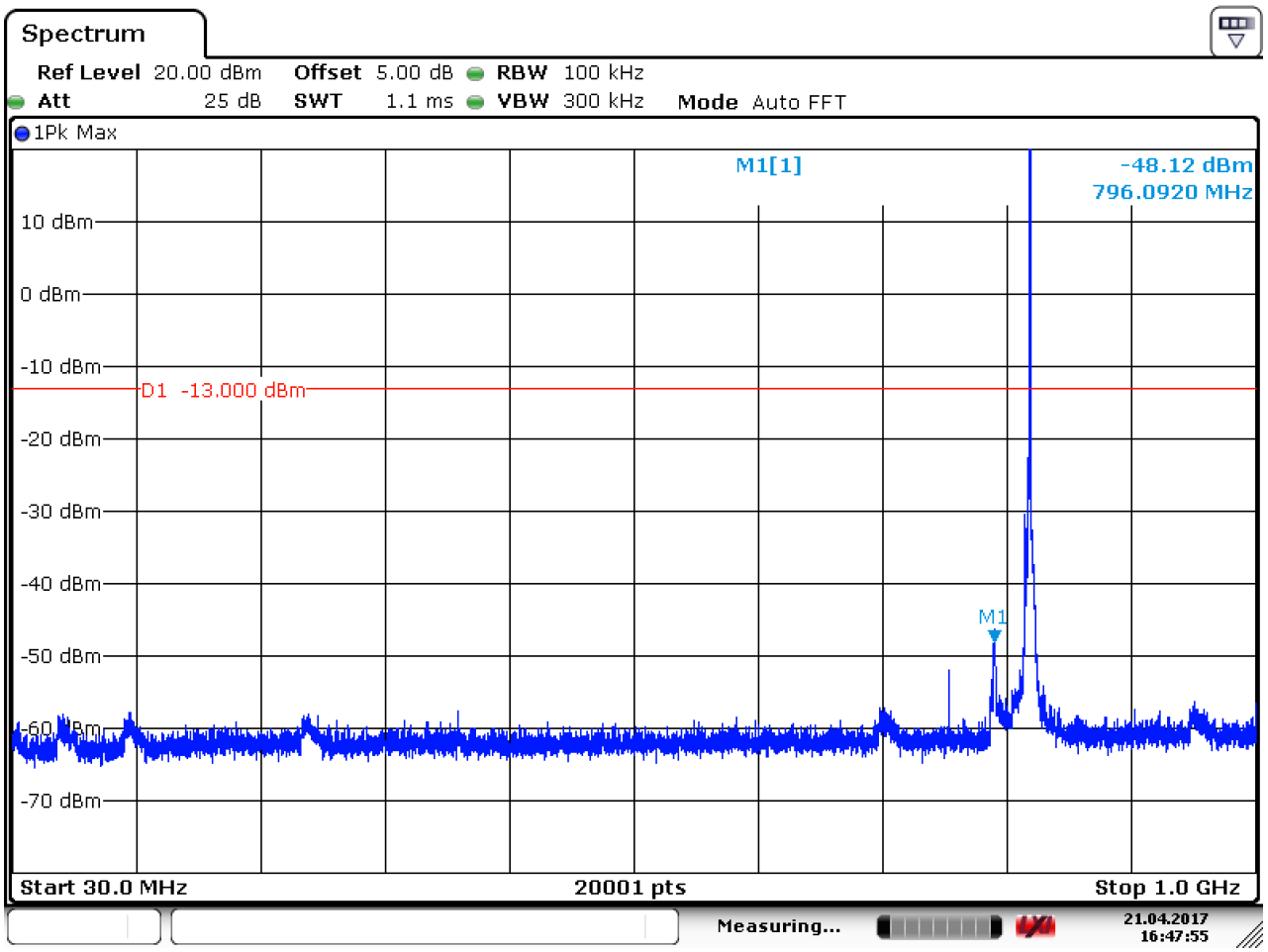


Date: 21.APR.2017 16:50:08

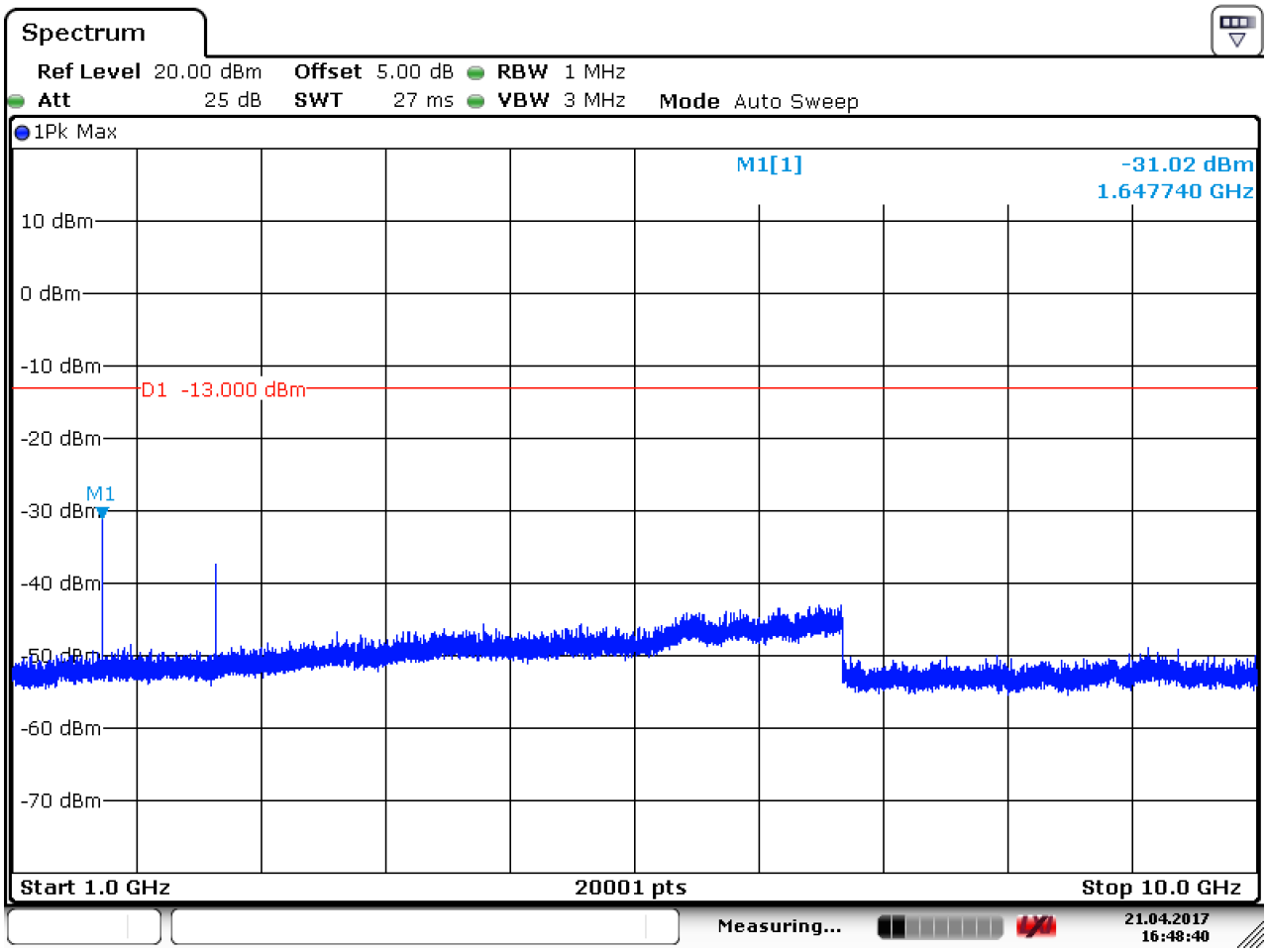


Date: 21.APR.2017 16:49:30

6.1.1.2.3 Test Channel = HCH



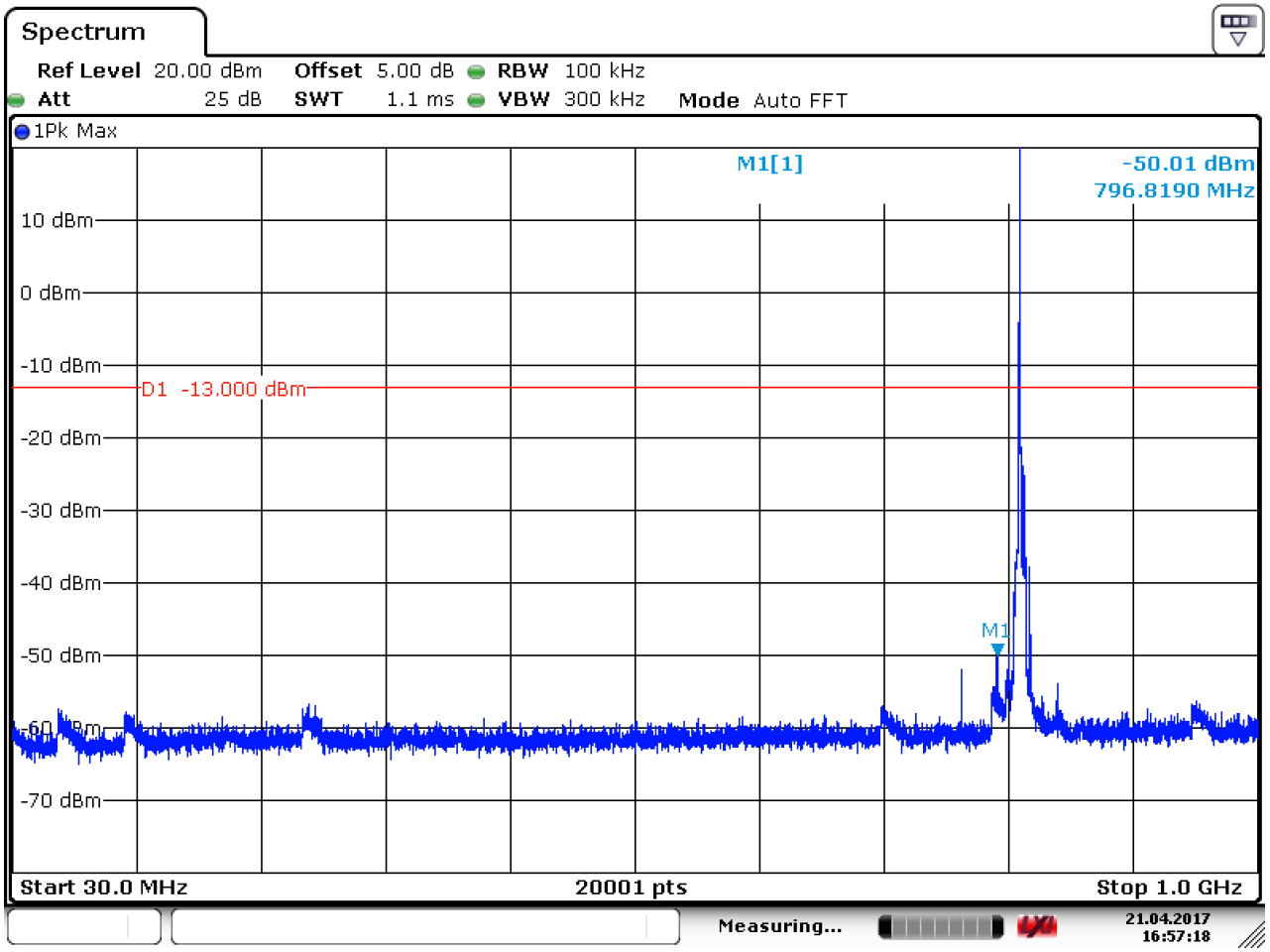
Date: 21.APR.2017 16:47:56



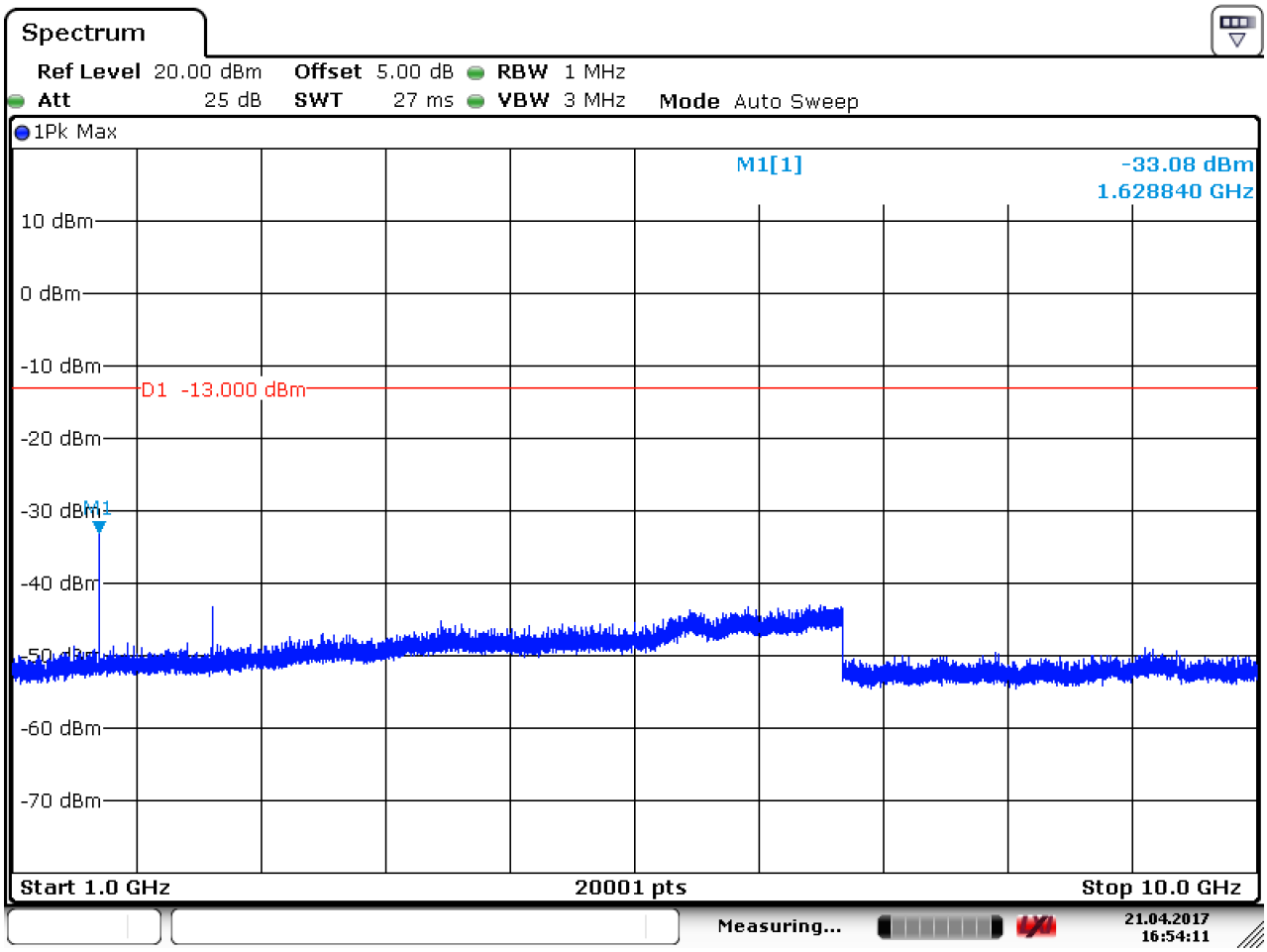
Date: 21.APR.2017 16:48:39

6.1.1.3 Test Mode = LTE / TM1 5MHz RB1#0

6.1.1.3.1 Test Channel = LCH

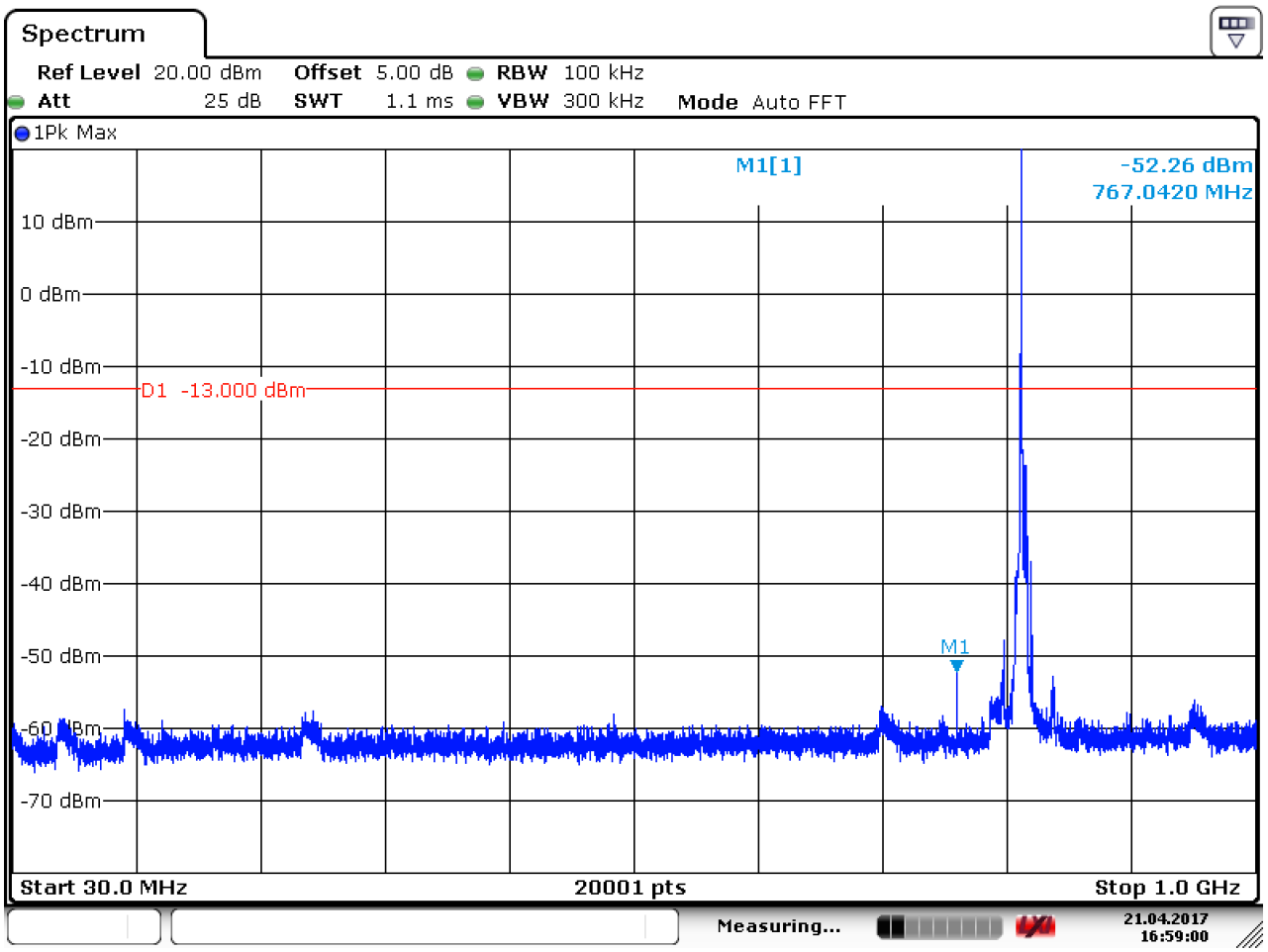


Date: 21.APR.2017 16:57:18

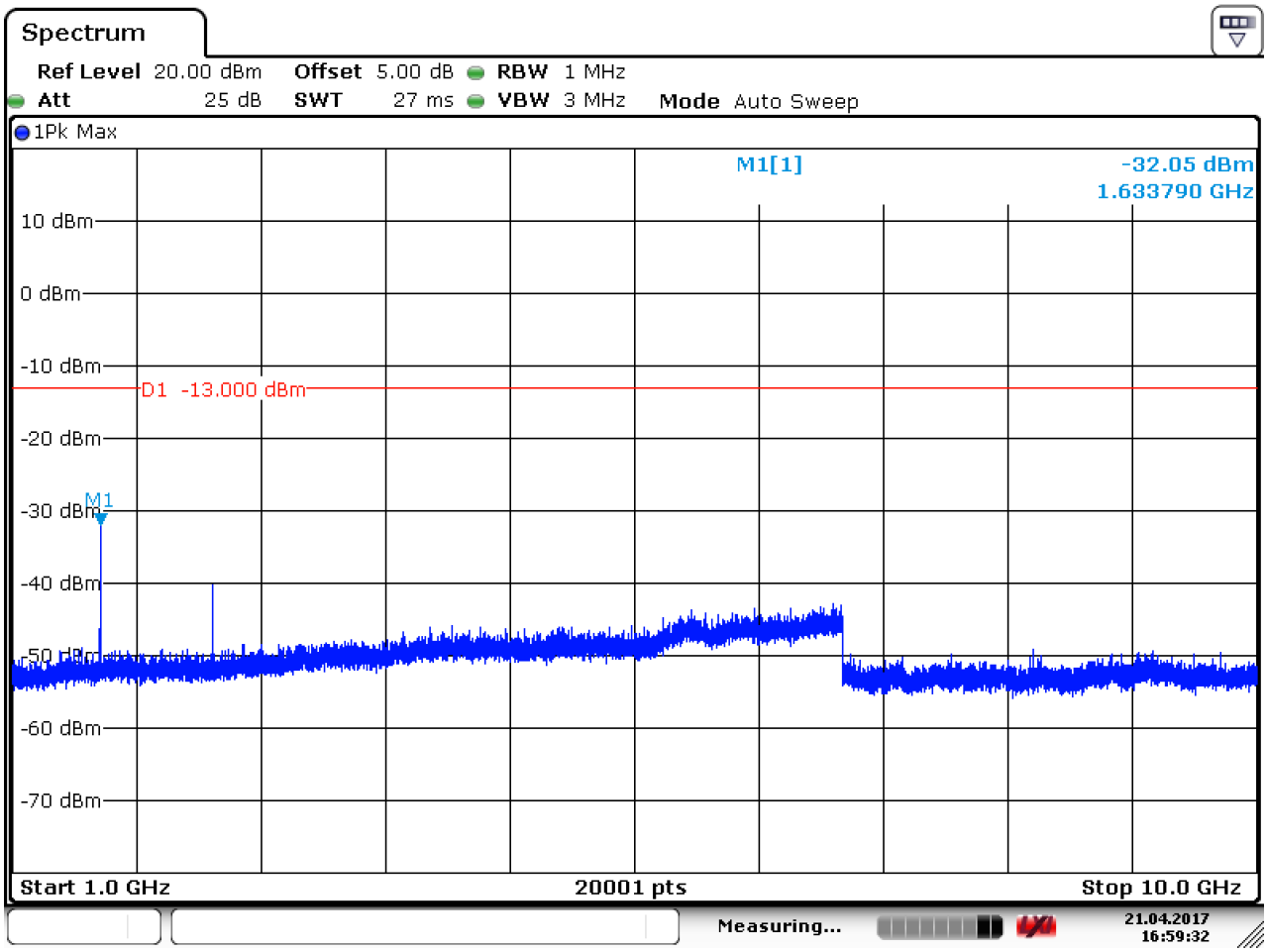


Date: 21.APR.2017 16:54:11

6.1.1.3.2 Test Channel = MCH

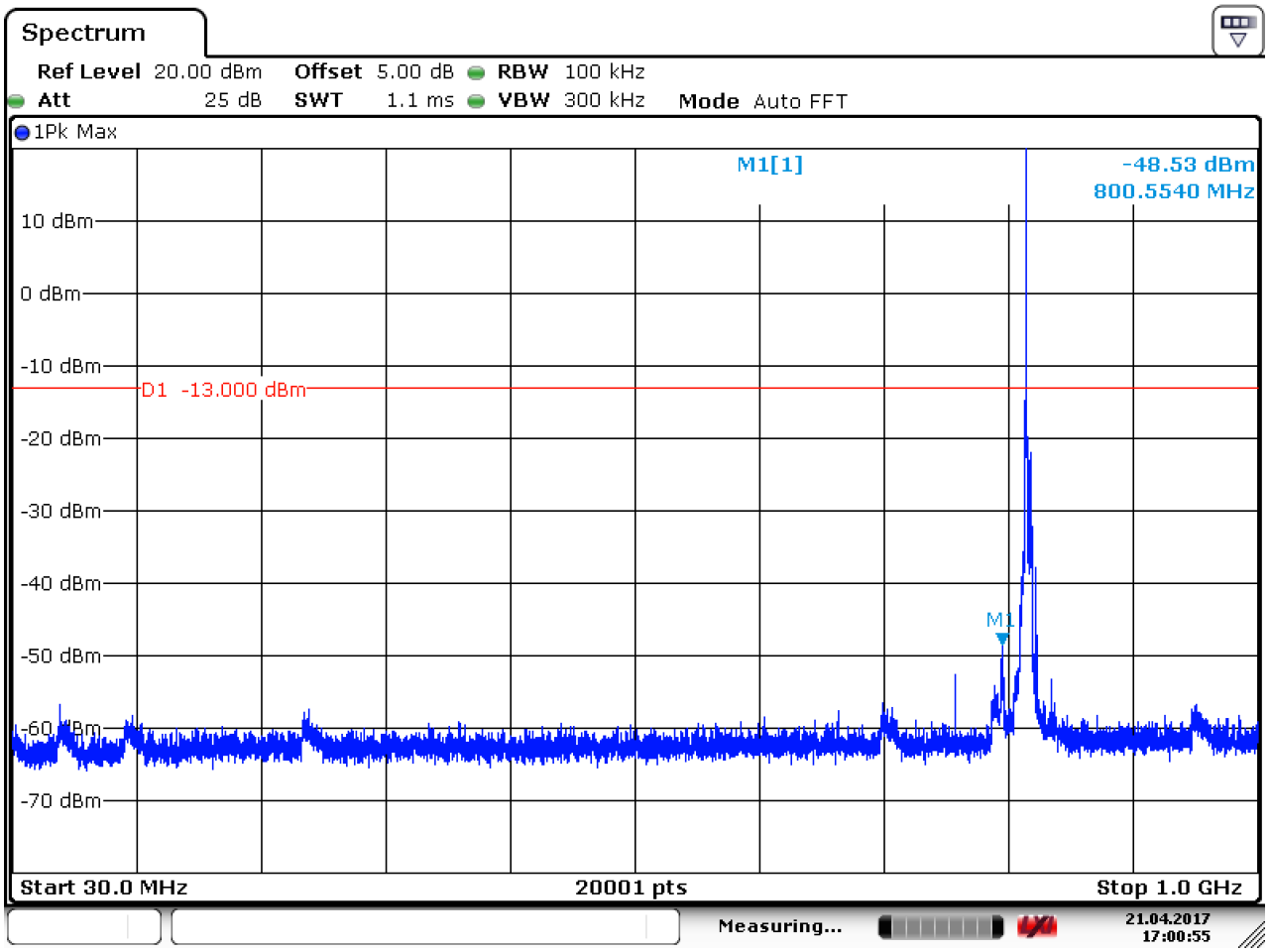


Date: 21.APR.2017 16:59:01

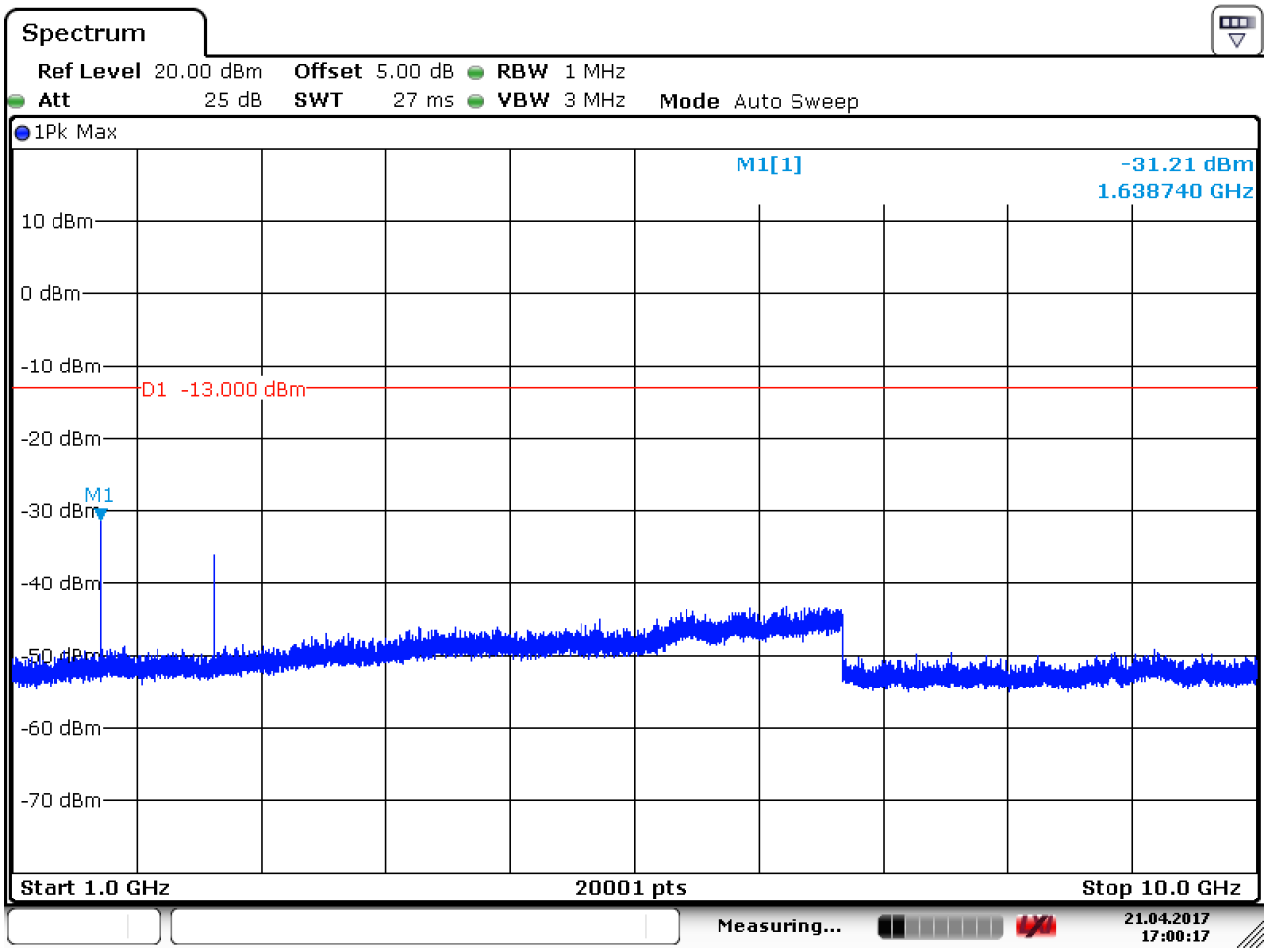


Date: 21.APR.2017 16:59:32

6.1.1.3.3 Test Channel = HCH



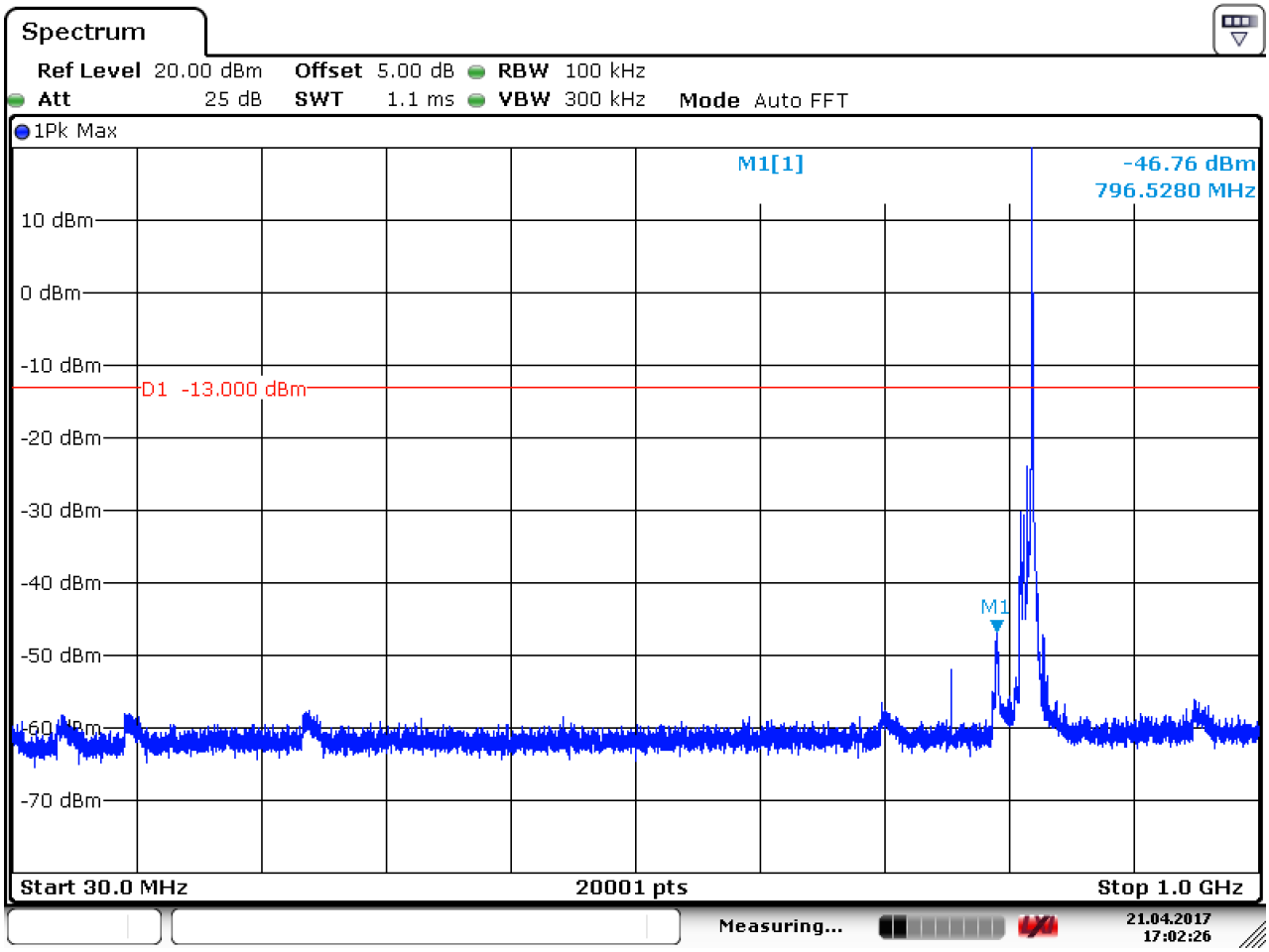
Date: 21.APR.2017 17:00:55



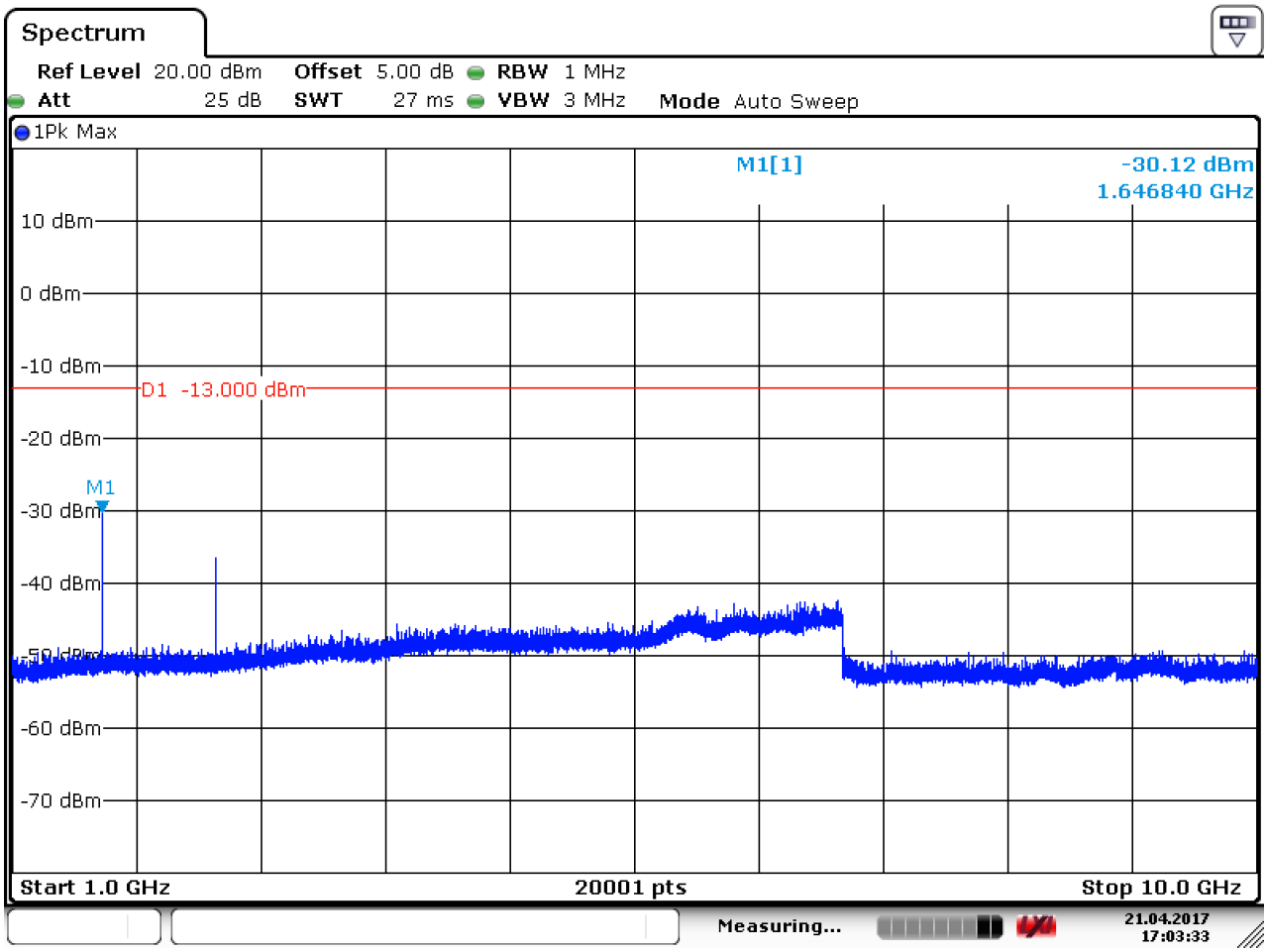
Date: 21.APR.2017 17:00:17

6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.4.1 Test Channel = MCH



Date: 21.APR.2017 17:02:26



Date: 21.APR.2017 17:03:33

7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band26(814-824)

7.1.1.1 Test Mode =LTE/TM1 10MHz RB1#0

7.1.1.1.1 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
2366.500000	-54.43	-13.00	45.47	Vertical
3475.000000	-66.25	-13.00	55.45	Vertical
5925.000000	-68.35	-13.00	54.02	Vertical
1652.000000	-58.94	-13.00	53.44	Horizontal
2312.500000	-63.06	-13.00	49.19	Horizontal
5476.000000	-64.48	-13.00	44.30	Horizontal

NOTE:

1) All modes are tested,but the data presented above is the worst case.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.

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
LTEband26 (814-824)	LTE/TM1 10MHz	MCH	TN	VL	-3.48	-0.00425	PASS
				VN	-2.30	-0.00281	PASS
				VH	-5.76	-0.00703	PASS
	LTE/TM2 10MHz	MCH	TN	VL	1.10	0.00134	PASS
				VN	-2.24	-0.00274	PASS
				VH	-4.13	-0.00504	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
LTE band26 (814-824)	LTE/TM1 10MHz	MCH	VN	-30	-4.34	-0.00530	PASS
				-20	-2.38	-0.00291	PASS
				-10	-1.77	-0.00216	PASS
				0	1.20	0.00147	PASS
				10	2.20	0.00269	PASS
				20	4.59	0.00560	PASS
				30	-1.62	-0.00198	PASS
				40	-2.70	-0.00330	PASS
				50	-4.01	-0.00490	PASS
	LTE/TM2 10MHz	MCH	VN	-30	-5.44	-0.00664	PASS
				-20	-3.20	-0.00391	PASS
				-10	-2.42	-0.00295	PASS
				0	-1.55	-0.00189	PASS
				10	-2.24	-0.00274	PASS
				20	-1.89	-0.00231	PASS
				30	-3.09	-0.00377	PASS
				40	-4.88	-0.00596	PASS
				50	-7.42	-0.00906	PASS

The End