Appendix B

E-UTRA Band 2

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

CONTENT

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	1.4M	LCH	RB1#0	23.28	24.43	33.00	PASS
				RB1#2	23.37	24.52	33.00	PASS
				RB1#5	23.25	24.40	33.00	PASS
				RB3#0	23.33	24.48	33.00	PASS
				RB3#2	23.48	24.63	33.00	PASS
				RB3#3	23.33	24.48	33.00	PASS
				RB6#0	22.46	23.61	33.00	PASS
			MCH	RB1#0	23.37	24.52	33.00	PASS
				RB1#2	23.39	24.54	33.00	PASS
				RB1#5	23.36	24.51	33.00	PASS
				RB3#0	23.47	24.62	33.00	PASS
				RB3#2	23.51	24.66	33.00	PASS
				RB3#3	23.46	24.61	33.00	PASS
				RB6#0	22.50	23.65	33.00	PASS
			HCH	RB1#0	23.55	24.70	33.00	PASS
				RB1#2	23.80	24.95	33.00	PASS
				RB1#5	23.58	24.73	33.00	PASS
				RB3#0	23.52	24.67	33.00	PASS
				RB3#2	23.66	24.81	33.00	PASS
				RB3#3	23.53	24.68	33.00	PASS
				RB6#0	22.67	23.82	33.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM2	1.4M	LCH	RB1#0	22.20	23.35	33.00	PASS
				RB1#2	22.62	23.77	33.00	PASS
				RB1#5	22.49	23.64	33.00	PASS
				RB3#0	22.67	23.82	33.00	PASS
				RB3#2	22.65	23.80	33.00	PASS
				RB3#3	22.75	23.90	33.00	PASS
				RB6#0	21.46	22.61	33.00	PASS
			MCH	RB1#0	22.67	23.82	33.00	PASS
				RB1#2	22.67	23.82	33.00	PASS
				RB1#5	22.66	23.81	33.00	PASS
				RB3#0	22.73	23.88	33.00	PASS
				RB3#2	22.67	23.82	33.00	PASS
				RB3#3	22.81	23.96	33.00	PASS
				RB6#0	21.30	22.45	33.00	PASS
			HCH	RB1#0	22.98	24.13	33.00	PASS
				RB1#2	22.87	24.02	33.00	PASS
				RB1#5	22.74	23.89	33.00	PASS
				RB3#0	22.93	24.08	33.00	PASS
				RB3#2	22.96	24.11	33.00	PASS
				RB3#3	22.96	24.11	33.00	PASS
				RB6#0	21.50	22.65	33.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM1	3M	LCH	RB1#0	23.45	24.60	33.00	PASS
				RB1#7	23.41	24.56	33.00	PASS
				RB1#14	23.60	24.75	33.00	PASS
				RB8#0	22.44	23.59	33.00	PASS
				RB8#4	22.48	23.63	33.00	PASS
				RB8#7	22.58	23.73	33.00	PASS
				RB15#0	22.46	23.61	33.00	PASS
			MCH	RB1#0	23.45	24.60	33.00	PASS
				RB1#7	23.69	24.84	33.00	PASS
				RB1#14	23.85	25.00	33.00	PASS
				RB8#0	22.69	23.84	33.00	PASS
				RB8#4	22.65	23.80	33.00	PASS
				RB8#7	22.58	23.73	33.00	PASS
				RB15#0	22.59	23.74	33.00	PASS
			HCH	RB1#0	23.83	24.98	33.00	PASS
				RB1#7	23.81	24.96	33.00	PASS
				RB1#14	23.98	25.13	33.00	PASS
				RB8#0	22.90	24.05	33.00	PASS
				RB8#4	22.84	23.99	33.00	PASS
				RB8#7	22.75	23.90	33.00	PASS
				RB15#0	22.68	23.83	33.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM2	3M	LCH	RB1#0	22.93	24.08	33.00	PASS
				RB1#7	22.74	23.89	33.00	PASS
				RB1#14	22.89	24.04	33.00	PASS
				RB8#0	21.39	22.54	33.00	PASS
				RB8#4	21.52	22.67	33.00	PASS
				RB8#7	21.44	22.59	33.00	PASS
				RB15#0	21.59	22.74	33.00	PASS
			MCH	RB1#0	22.85	24.00	33.00	PASS
				RB1#7	22.77	23.92	33.00	PASS
				RB1#14	22.82	23.97	33.00	PASS
				RB8#0	21.79	22.94	33.00	PASS
				RB8#4	21.71	22.86	33.00	PASS
				RB8#7	21.76	22.91	33.00	PASS
				RB15#0	21.73	22.88	33.00	PASS
			HCH	RB1#0	23.09	24.24	33.00	PASS
				RB1#7	22.89	24.04	33.00	PASS
				RB1#14	23.05	24.20	33.00	PASS
				RB8#0	21.83	22.98	33.00	PASS
				RB8#4	21.90	23.05	33.00	PASS
				RB8#7	21.94	23.09	33.00	PASS
				RB15#0	21.87	23.02	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	5M	LCH	RB1#0	23.44	24.59	33.00	PASS
				RB1#13	23.39	24.54	33.00	PASS
				RB1#24	23.49	24.64	33.00	PASS
				RB12#0	22.51	23.66	33.00	PASS
				RB12#6	22.49	23.64	33.00	PASS
				RB12#13	22.50	23.65	33.00	PASS
				RB25#0	22.44	23.59	33.00	PASS
			MCH	RB1#0	23.47	24.62	33.00	PASS
				RB1#13	23.39	24.54	33.00	PASS
				RB1#24	23.49	24.64	33.00	PASS
				RB12#0	22.56	23.71	33.00	PASS
				RB12#6	22.59	23.74	33.00	PASS
				RB12#13	22.65	23.80	33.00	PASS
				RB25#0	22.65	23.80	33.00	PASS
			HCH	RB1#0	23.72	24.87	33.00	PASS
				RB1#13	23.63	24.78	33.00	PASS
				RB1#24	23.60	24.75	33.00	PASS
				RB12#0	22.75	23.90	33.00	PASS
				RB12#6	22.69	23.84	33.00	PASS
				RB12#13	22.67	23.82	33.00	PASS
				RB25#0	22.76	23.91	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	22.65	23.80	33.00	PASS
				RB1#13	22.68	23.83	33.00	PASS
				RB1#24	22.76	23.91	33.00	PASS
				RB12#0	21.31	22.46	33.00	PASS
				RB12#6	21.41	22.56	33.00	PASS
				RB12#13	21.66	22.81	33.00	PASS
				RB25#0	21.47	22.62	33.00	PASS
			MCH	RB1#0	22.71	23.86	33.00	PASS
				RB1#13	22.71	23.86	33.00	PASS
				RB1#24	22.70	23.85	33.00	PASS
				RB12#0	21.50	22.65	33.00	PASS
				RB12#6	21.51	22.66	33.00	PASS
				RB12#13	21.48	22.63	33.00	PASS
				RB25#0	21.47	22.62	33.00	PASS
			HCH	RB1#0	23.04	24.19	33.00	PASS
				RB1#13	22.83	23.98	33.00	PASS
				RB1#24	23.10	24.25	33.00	PASS
				RB12#0	21.70	22.85	33.00	PASS
				RB12#6	21.63	22.78	33.00	PASS
				RB12#13	21.64	22.79	33.00	PASS
				RB25#0	21.60	22.75	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	10M	LCH	RB1#0	23.65	24.80	33.00	PASS
				RB1#25	23.73	24.88	33.00	PASS
				RB1#49	23.68	24.83	33.00	PASS
				RB25#0	22.51	23.66	33.00	PASS
				RB25#13	22.59	23.74	33.00	PASS
				RB25#25	22.53	23.68	33.00	PASS
				RB50#0	22.52	23.67	33.00	PASS
			MCH	RB1#0	23.89	25.04	33.00	PASS
				RB1#25	23.72	24.87	33.00	PASS
				RB1#49	23.86	25.01	33.00	PASS
				RB25#0	22.71	23.86	33.00	PASS
				RB25#13	22.67	23.82	33.00	PASS
				RB25#25	22.67	23.82	33.00	PASS
				RB50#0	22.68	23.83	33.00	PASS
			HCH	RB1#0	23.84	24.99	33.00	PASS
				RB1#25	23.79	24.94	33.00	PASS
				RB1#49	23.71	24.86	33.00	PASS
				RB25#0	22.81	23.96	33.00	PASS
				RB25#13	22.78	23.93	33.00	PASS
				RB25#25	22.73	23.88	33.00	PASS
				RB50#0	22.78	23.93	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	10M	LCH	RB1#0	22.34	23.49	33.00	PASS
				RB1#25	22.76	23.91	33.00	PASS
				RB1#49	22.81	23.96	33.00	PASS
				RB25#0	21.54	22.69	33.00	PASS
				RB25#13	21.62	22.77	33.00	PASS
				RB25#25	21.56	22.71	33.00	PASS
				RB50#0	21.46	22.61	33.00	PASS
			MCH	RB1#0	22.85	24.00	33.00	PASS
				RB1#25	22.82	23.97	33.00	PASS
				RB1#49	22.82	23.97	33.00	PASS
				RB25#0	21.56	22.71	33.00	PASS
				RB25#13	21.54	22.69	33.00	PASS
				RB25#25	21.65	22.80	33.00	PASS
				RB50#0	21.56	22.71	33.00	PASS
			HCH	RB1#0	23.06	24.21	33.00	PASS
				RB1#25	22.69	23.84	33.00	PASS
				RB1#49	22.97	24.12	33.00	PASS
				RB25#0	21.78	22.93	33.00	PASS
				RB25#13	21.75	22.90	33.00	PASS
				RB25#25	21.71	22.86	33.00	PASS
				RB50#0	21.74	22.89	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	23.80	24.95	33.00	PASS
				RB1#38	23.64	24.79	33.00	PASS
				RB1#74	23.80	24.95	33.00	PASS
				RB36#0	22.52	23.67	33.00	PASS
				RB36#18	22.52	23.67	33.00	PASS
				RB36#39	22.46	23.61	33.00	PASS
				RB75#0	22.55	23.70	33.00	PASS
			MCH	RB1#0	24.11	25.26	33.00	PASS
				RB1#38	23.47	24.62	33.00	PASS
				RB1#74	23.96	25.11	33.00	PASS
				RB36#0	22.56	23.71	33.00	PASS
				RB36#18	22.63	23.78	33.00	PASS
				RB36#39	22.66	23.81	33.00	PASS
				RB75#0	22.55	23.70	33.00	PASS
			HCH	RB1#0	24.00	25.15	33.00	PASS
				RB1#38	23.60	24.75	33.00	PASS
				RB1#74	23.69	24.84	33.00	PASS
				RB36#0	22.83	23.98	33.00	PASS
				RB36#18	22.68	23.83	33.00	PASS
				RB36#39	22.69	23.84	33.00	PASS
				RB75#0	22.78	23.93	33.00	PASS

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	22.92	24.07	33.00	PASS
				RB1#38	22.70	23.85	33.00	PASS
				RB1#74	22.63	23.78	33.00	PASS
				RB36#0	21.63	22.78	33.00	PASS
				RB36#18	21.60	22.75	33.00	PASS
				RB36#39	21.46	22.61	33.00	PASS
				RB75#0	21.54	22.69	33.00	PASS
			MCH	RB1#0	22.92	24.07	33.00	PASS
				RB1#38	22.33	23.48	33.00	PASS
				RB1#74	22.83	23.98	33.00	PASS
				RB36#0	21.56	22.71	33.00	PASS
				RB36#18	21.48	22.63	33.00	PASS
				RB36#39	21.51	22.66	33.00	PASS
				RB75#0	21.55	22.70	33.00	PASS
			HCH	RB1#0	23.09	24.24	33.00	PASS
				RB1#38	22.46	23.61	33.00	PASS
				RB1#74	22.88	24.03	33.00	PASS
				RB36#0	21.73	22.88	33.00	PASS
				RB36#18	21.58	22.73	33.00	PASS
				RB36#39	21.70	22.85	33.00	PASS
				RB75#0	21.79	22.94	33.00	PASS

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	23.90	25.05	33.00	PASS
				RB1#50	23.85	25.00	33.00	PASS
				RB1#99	23.72	24.87	33.00	PASS
				RB50#0	22.83	23.98	33.00	PASS
				RB50#25	22.83	23.98	33.00	PASS
				RB50#50	22.71	23.86	33.00	PASS
				RB100#0	22.73	23.88	33.00	PASS
			MCH	RB1#0	23.97	25.12	33.00	PASS
				RB1#50	23.92	25.07	33.00	PASS
				RB1#99	23.97	25.12	33.00	PASS
				RB50#0	22.88	24.03	33.00	PASS
				RB50#25	22.84	23.99	33.00	PASS
				RB50#50	22.92	24.07	33.00	PASS
				RB100#0	22.91	24.06	33.00	PASS
			HCH	RB1#0	24.07	25.22	33.00	PASS
				RB1#50	23.83	24.98	33.00	PASS
				RB1#99	23.79	24.94	33.00	PASS
				RB50#0	22.99	24.14	33.00	PASS
				RB50#25	22.92	24.07	33.00	PASS
				RB50#50	22.81	23.96	33.00	PASS
				RB100#0	22.93	24.08	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	22.51	23.66	33.00	PASS
				RB1#50	22.31	23.46	33.00	PASS
				RB1#99	22.43	23.58	33.00	PASS
				RB50#0	21.39	22.54	33.00	PASS
				RB50#25	21.45	22.60	33.00	PASS
				RB50#50	21.42	22.57	33.00	PASS
				RB100#0	21.51	22.66	33.00	PASS
			MCH	RB1#0	23.03	24.18	33.00	PASS
				RB1#50	22.92	24.07	33.00	PASS
				RB1#99	22.40	23.55	33.00	PASS
				RB50#0	21.63	22.78	33.00	PASS
				RB50#25	21.56	22.71	33.00	PASS
				RB50#50	21.51	22.66	33.00	PASS
				RB100#0	21.72	22.87	33.00	PASS
			HCH	RB1#0	23.07	24.22	33.00	PASS
				RB1#50	22.68	23.83	33.00	PASS
				RB1#99	22.84	23.99	33.00	PASS
				RB50#0	21.79	22.94	33.00	PASS
				RB50#25	21.74	22.89	33.00	PASS
				RB50#50	21.57	22.72	33.00	PASS
				RB100#0	21.59	22.74	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
c: RBW > emission bandwidth, VBW > 3 x RBW.
  Detector: RMS

**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

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	5.04	13	PASS
		MCH	5.30	13	PASS
		HCH	5.10	13	PASS
	TM2/20M	LCH	6.00	13	PASS
		MCH	6.23	13	PASS
		HCH	6.17	13	PASS
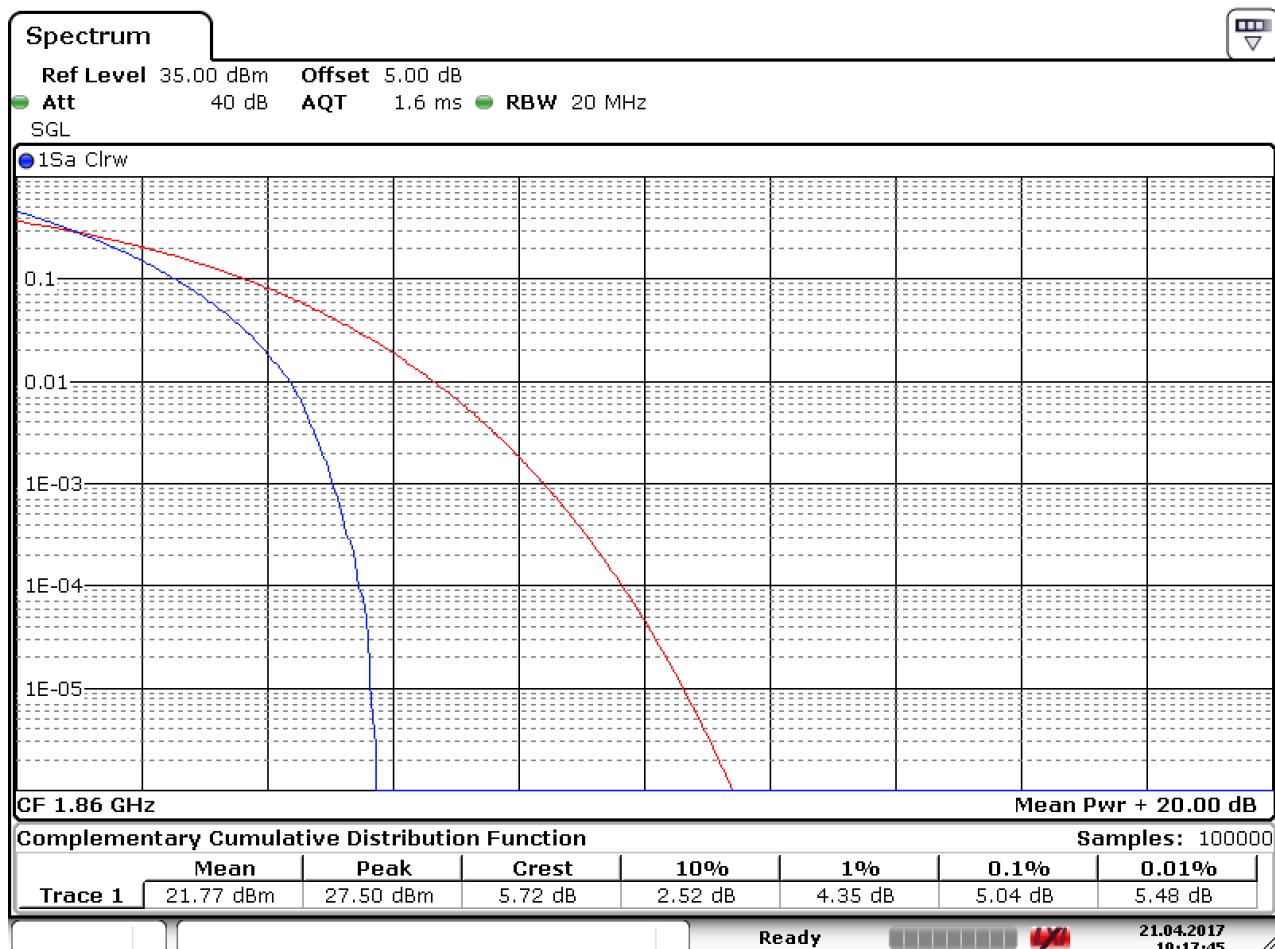
Part II - Test Plots
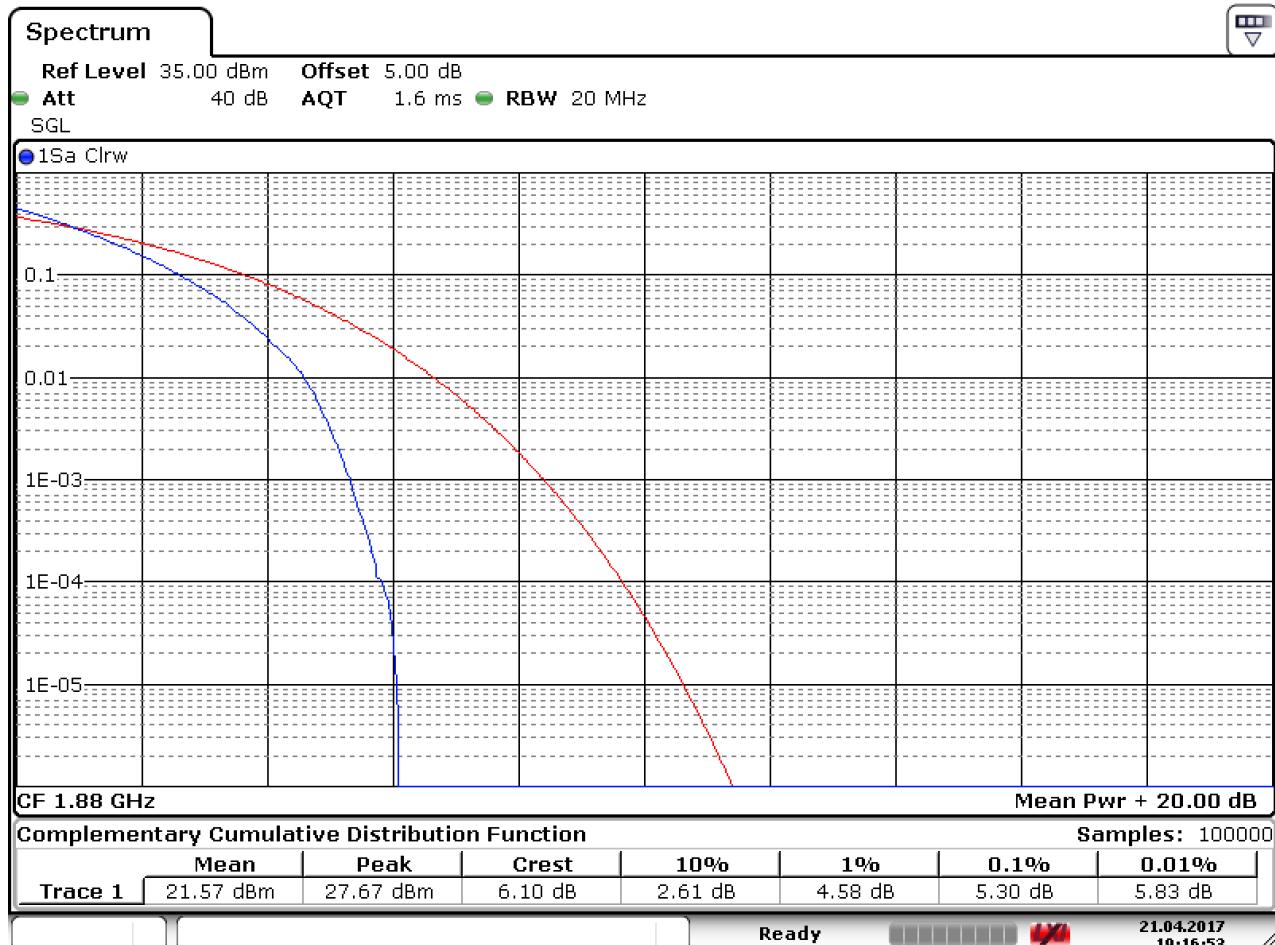
2.1 For LTE

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

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.77 dBm	27.50 dBm	5.72 dB	2.52 dB	4.35 dB	5.04 dB	5.48 dB
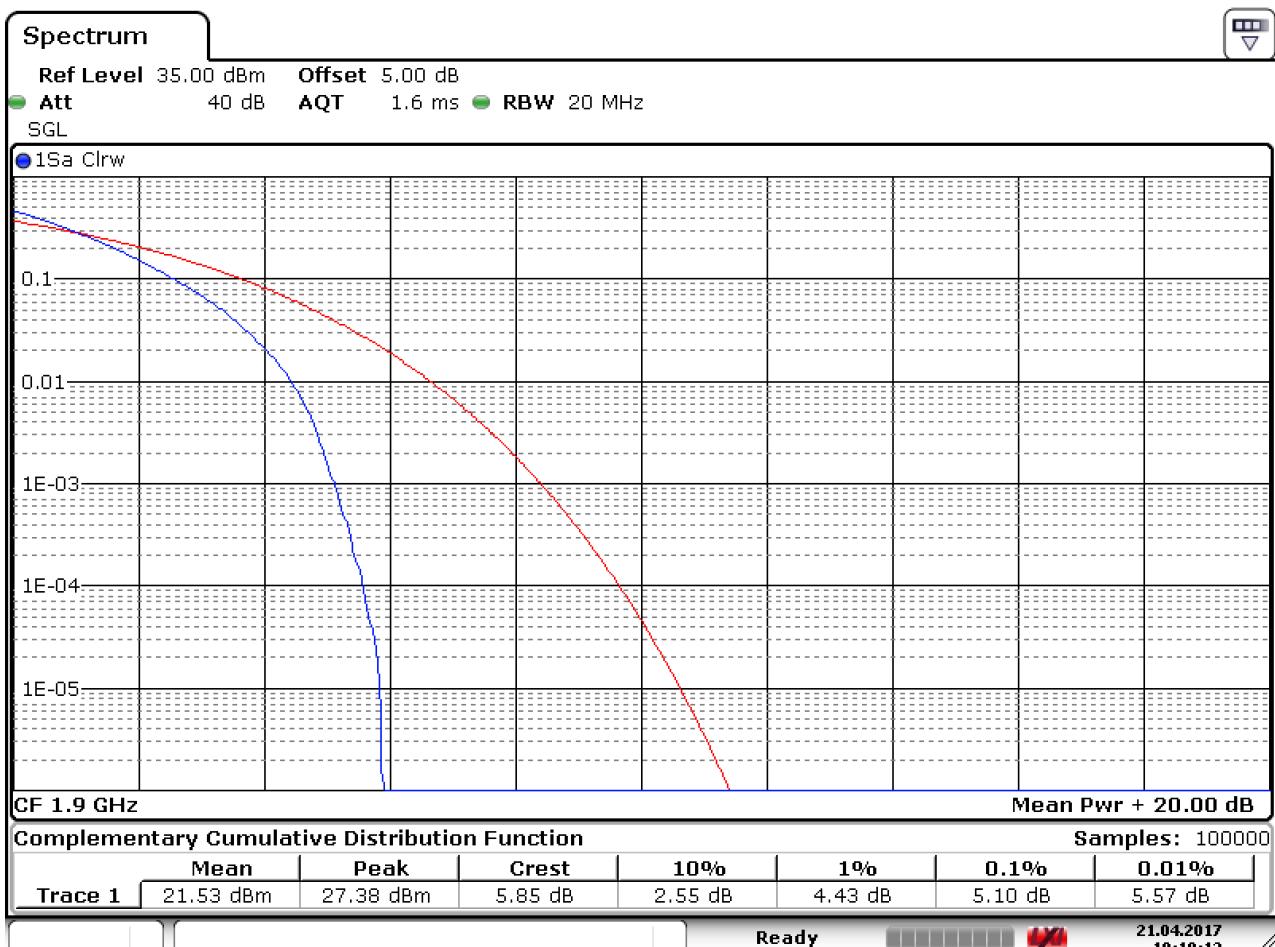
Date: 21.APR.2017 19:17:46
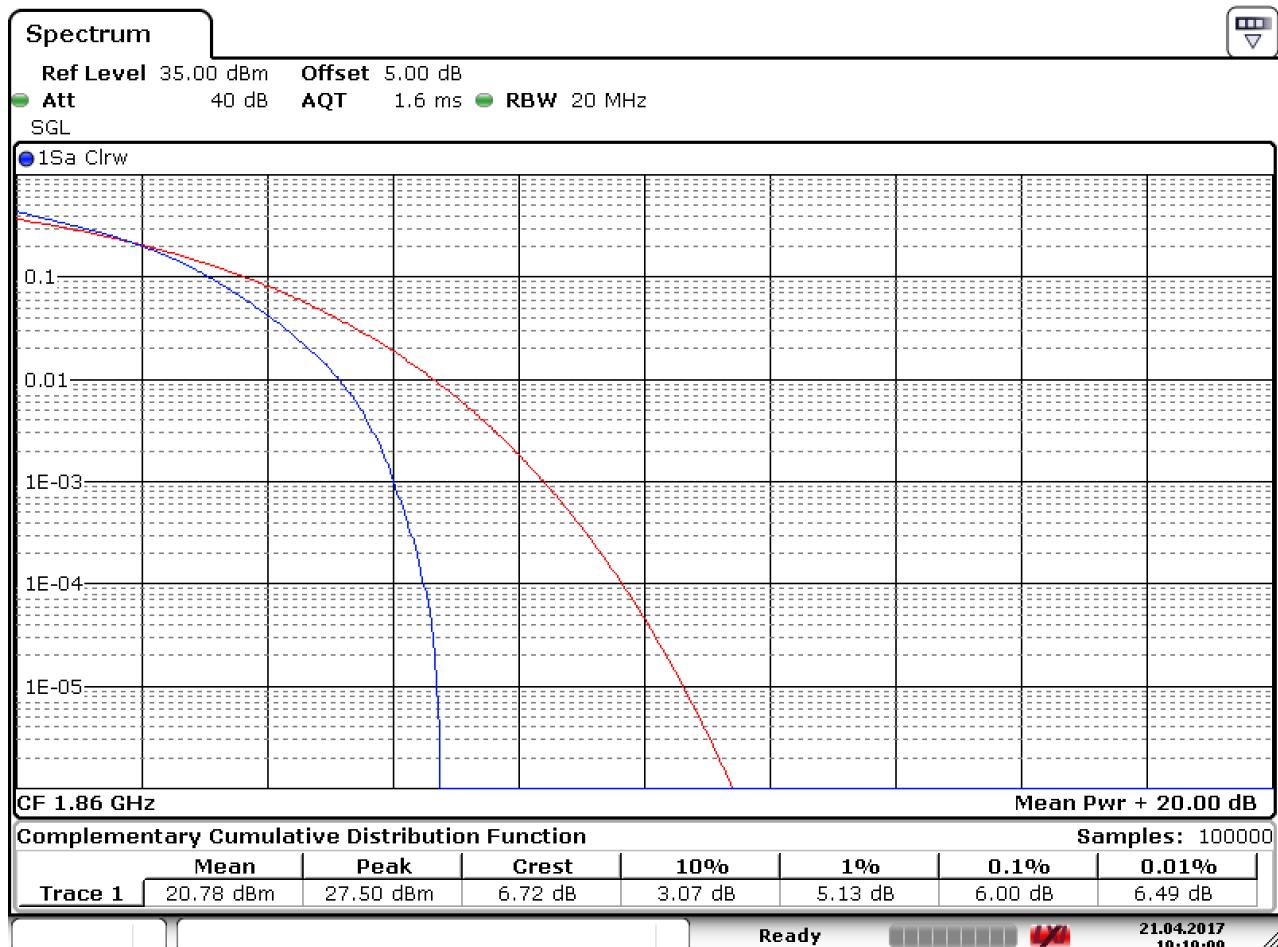
2.1.1.1.2   Test Channel = MCH

Date: 21.APR.2017 19:16:54

2.1.1.1.3   Test Channel = HCH

Spectrum							
Ref Level 35.00 dBm **Offset** 5.00 dB							
● **Att** 40 dB **AQT** 1.6 ms ● **RBW** 20 MHz							
SGL							

● 1Sa Clrw

CF 1.9 GHz   Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function						Samples: 100000	
	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.53 dBm	27.38 dBm	5.85 dB	2.55 dB	4.43 dB	5.10 dB	5.57 dB

Ready   21.04.2017
                                             19:18:12
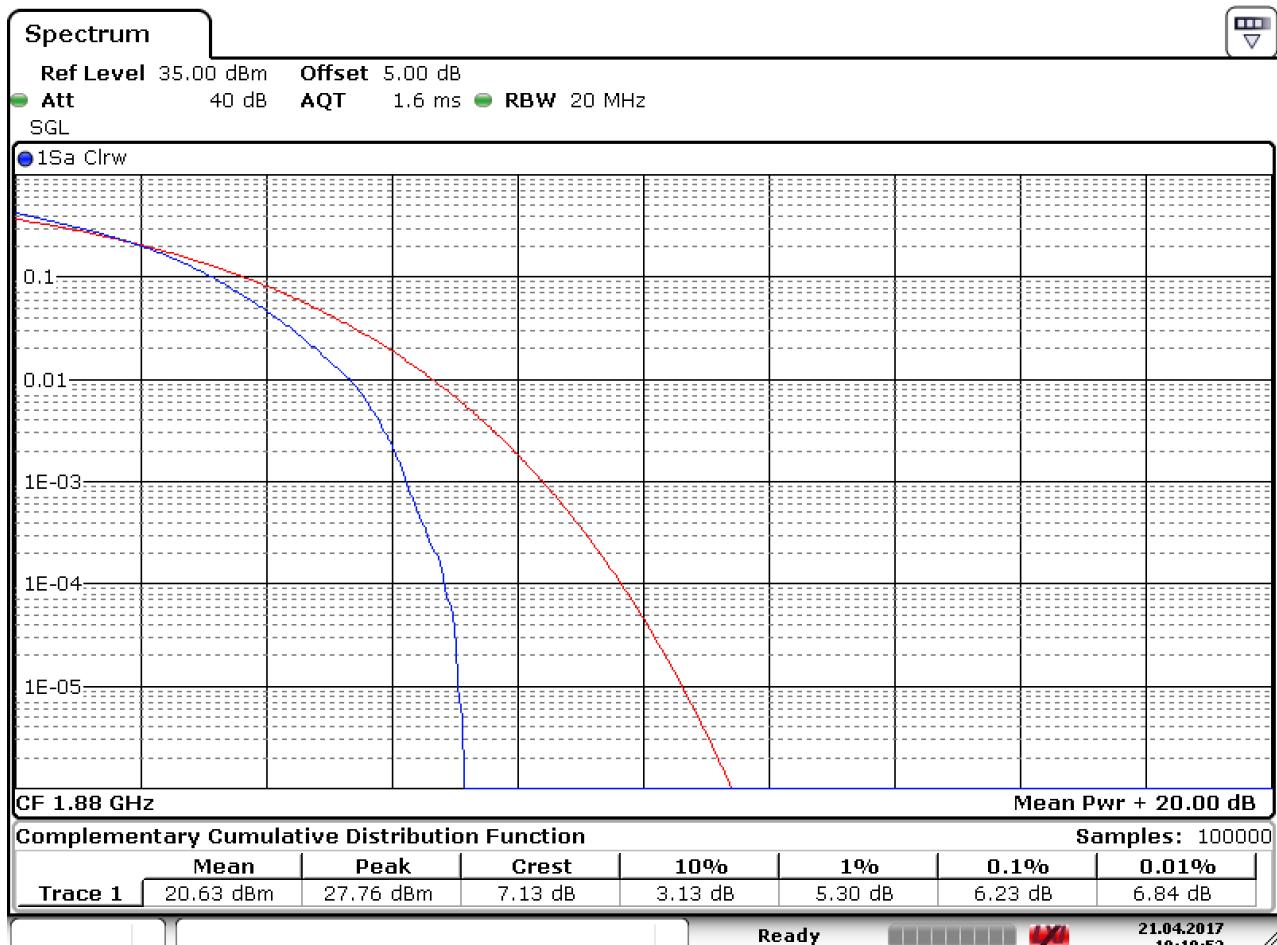
Date: 21.APR.2017 19:18:12
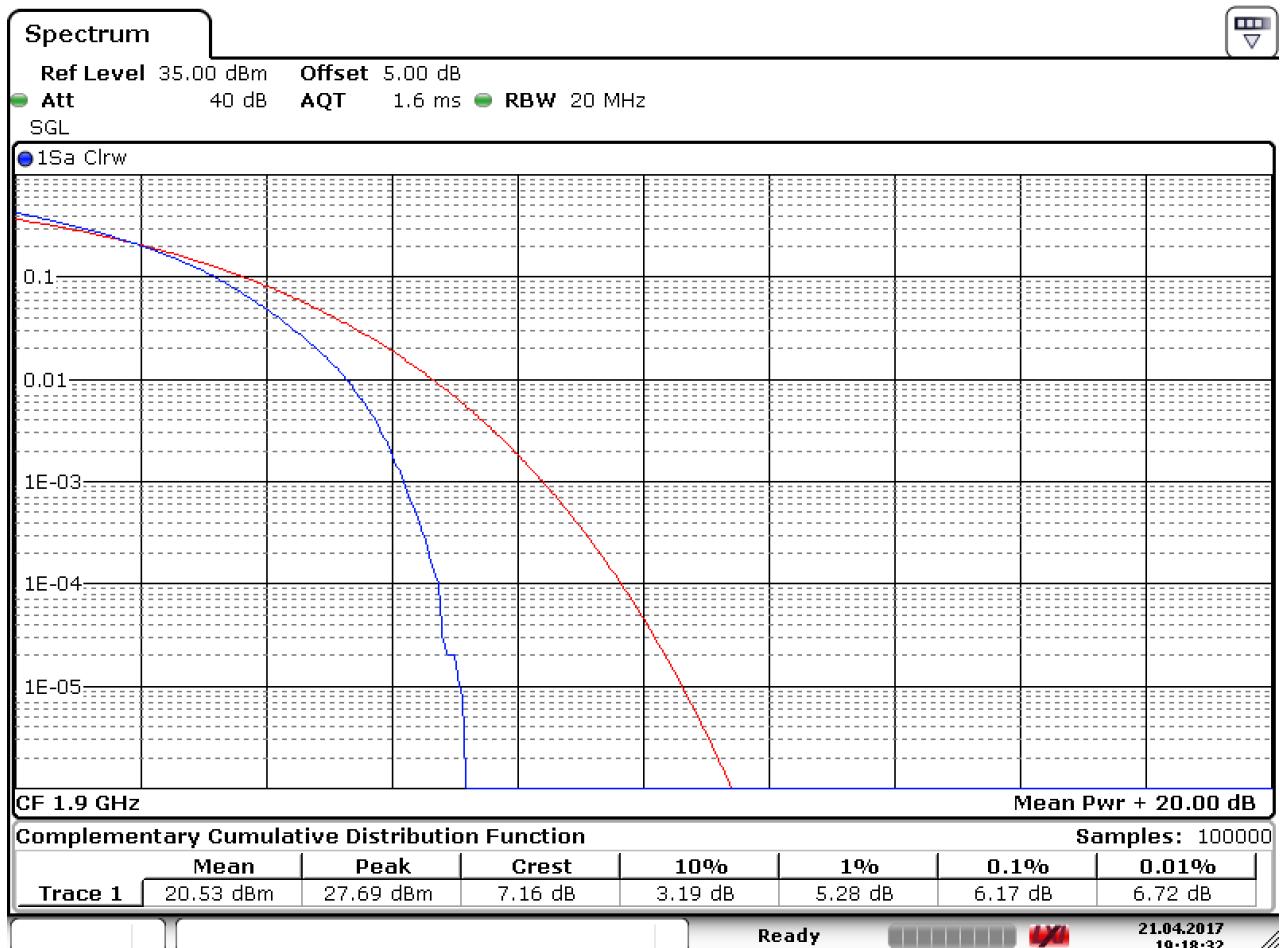
2.1.1.2   Test Mode = LTE/TM2.Bandwidth=20MHz

2.1.1.2.1   Test Channel = LCH

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.78 dBm	27.50 dBm	6.72 dB	3.07 dB	5.13 dB	6.00 dB	6.49 dB

Date: 21.APR.2017 19:19:10

2.1.1.2.2   Test Channel = MCH

```
Spectrum

Ref Level 35.00 dBm    Offset 5.00 dB
Att          40 dB    AQT    1.6 ms    RBW  20 MHz
SGL

1Sa Clrw

0.1

0.01

1E-03

1E-04

1E-05

CF 1.88 GHz                              Mean Pwr + 20.00 dB
```

Complementary Cumulative Distribution Function					Samples: 100000	
	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.63 dBm	27.76 dBm	7.13 dB	3.13 dB	5.30 dB	6.23 dB	6.84 dB

```
                                    Ready                    21.04.2017
                                                             19:18:53
```

Date: 21.APR.2017 19:18:54

2.1.1.2.3   Test Channel = HCH

Spectrum							
Ref Level 35.00 dBm		Offset 5.00 dB					
Att 40 dB		AQT 1.6 ms	RBW 20 MHz				

SGL

1Sa Clrw

CF 1.9 GHz   Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function   Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.53 dBm	27.69 dBm	7.16 dB	3.19 dB	5.28 dB	6.17 dB	6.72 dB

Ready   21.04.2017 19:18:32

Date: 21.APR.2017 19:18:32

3   Modulation Characteristics
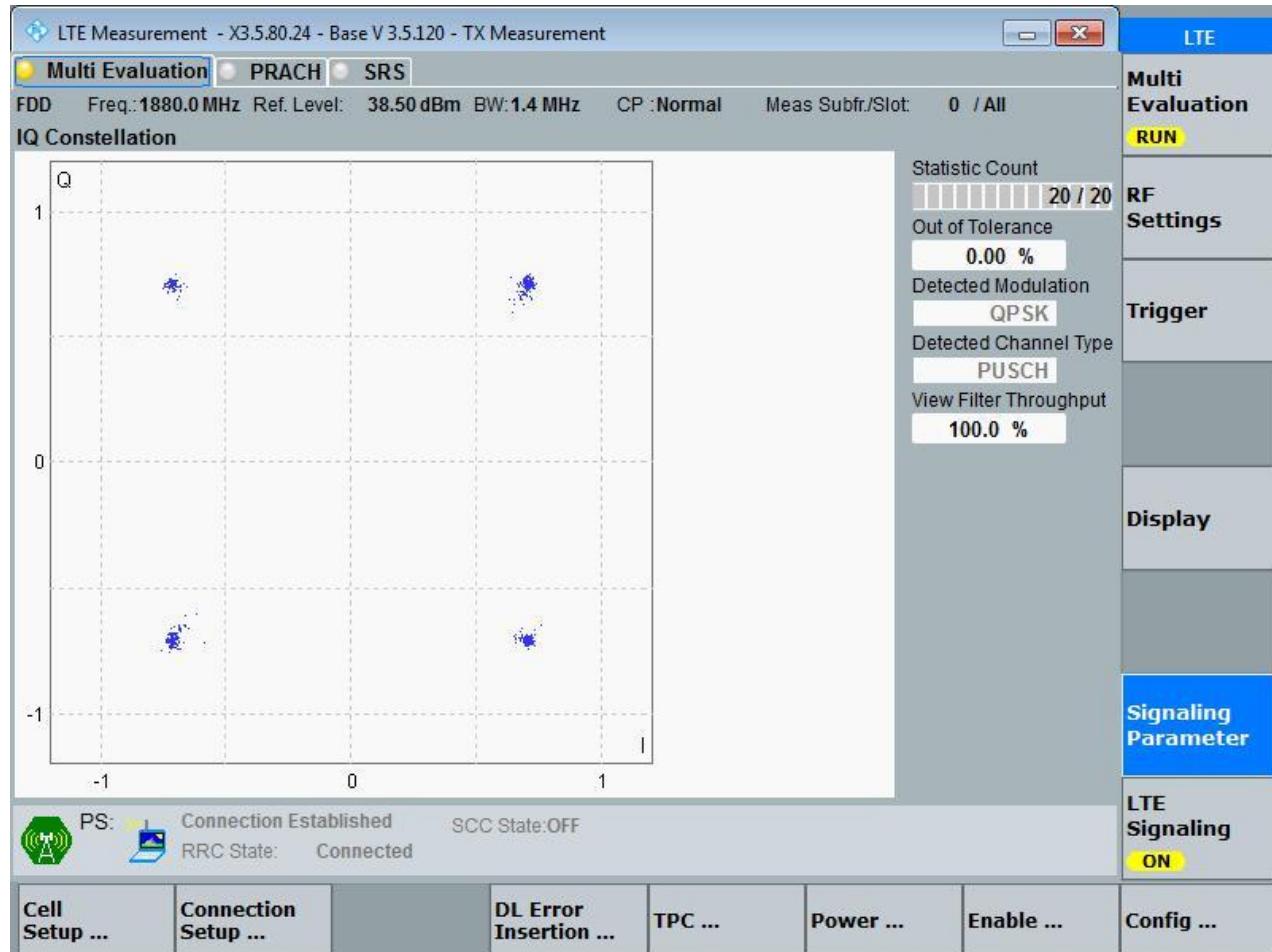
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band2
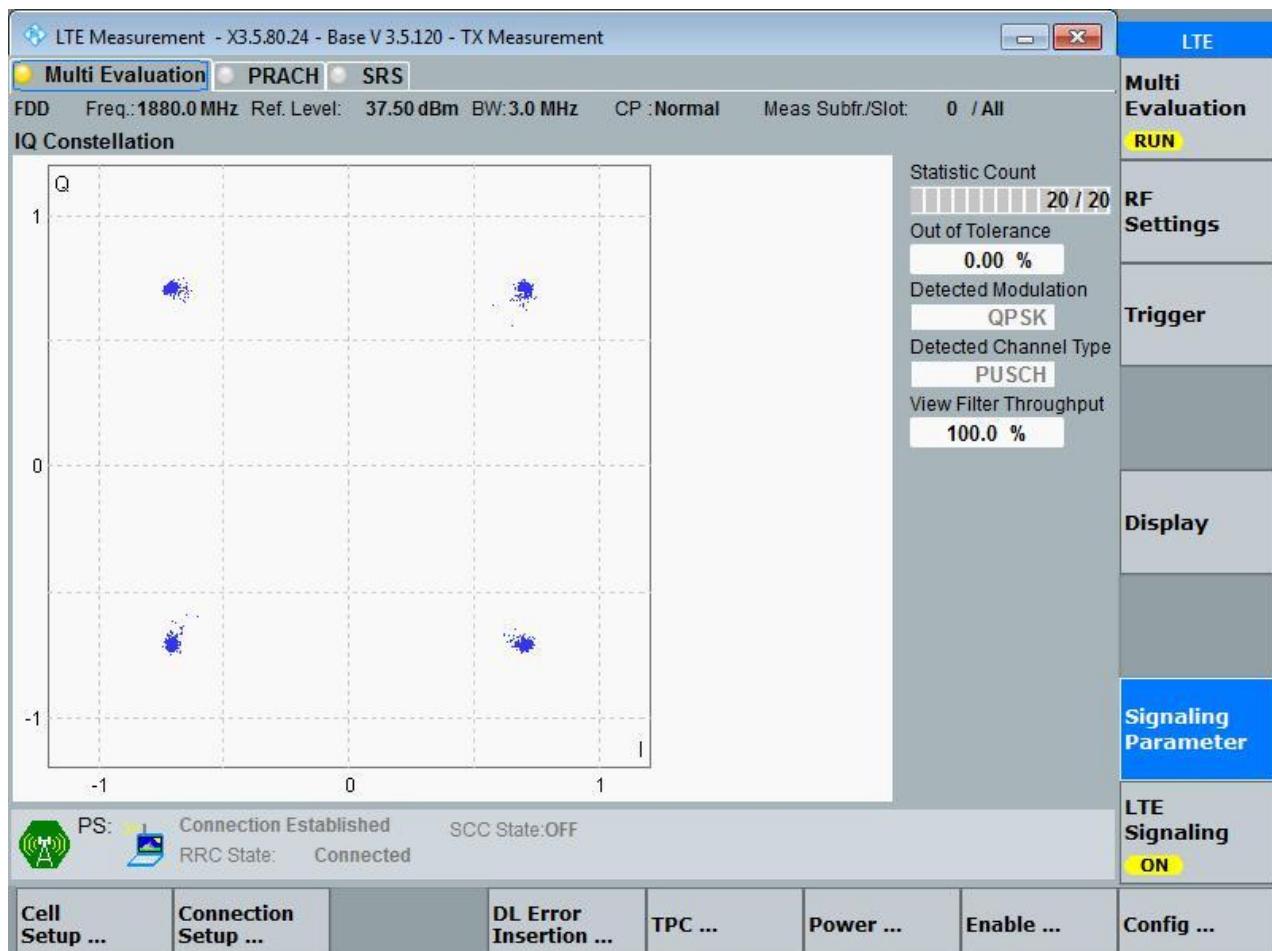
3.1.1.1   Test Mode = LTE /TM1 1.4MHz

3.1.1.1.1   Test Channel = MCH
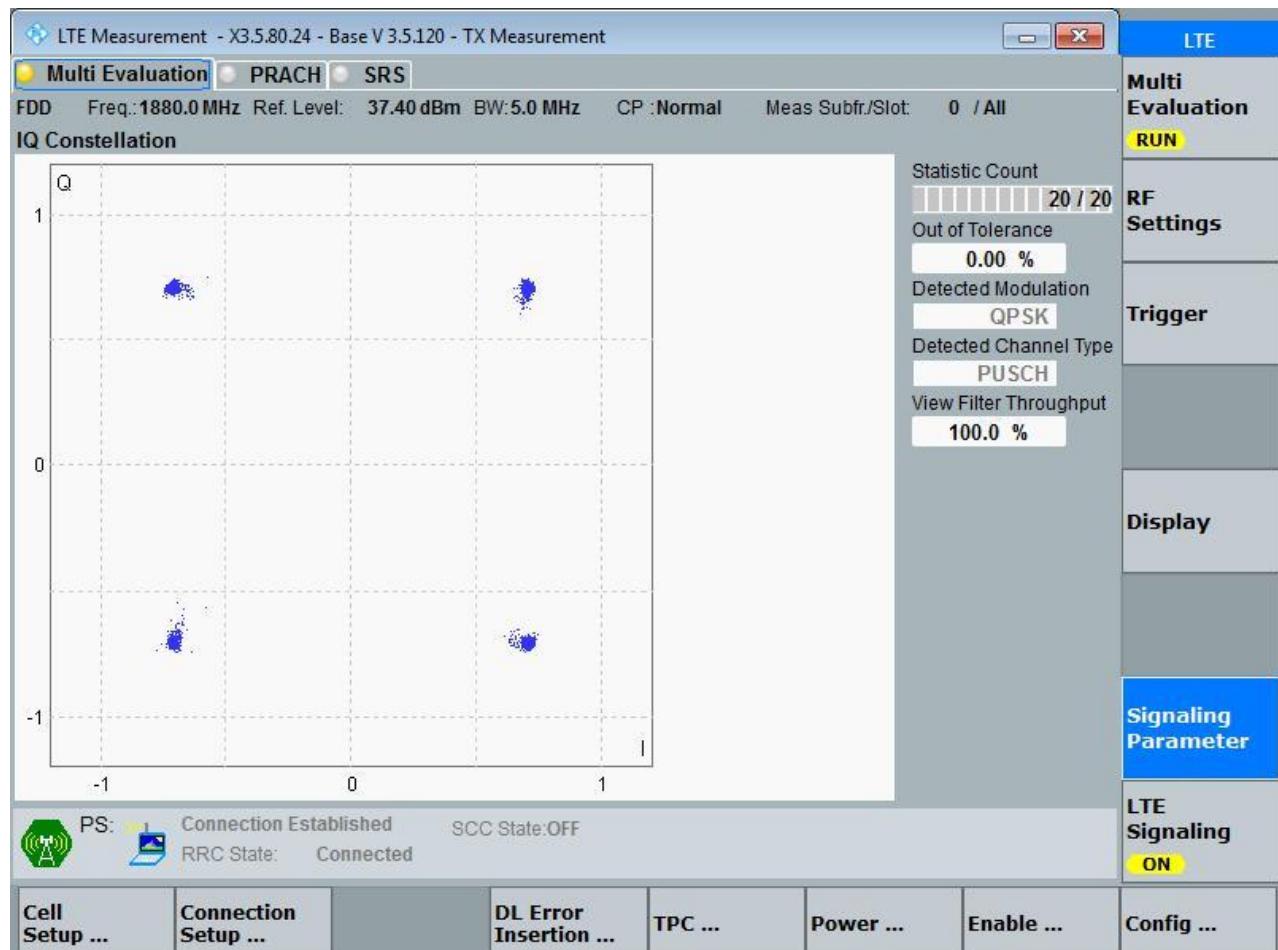
3.1.1.2   Test Mode = LTE /TM1 3MHz

3.1.1.2.1   Test Channel = MCH
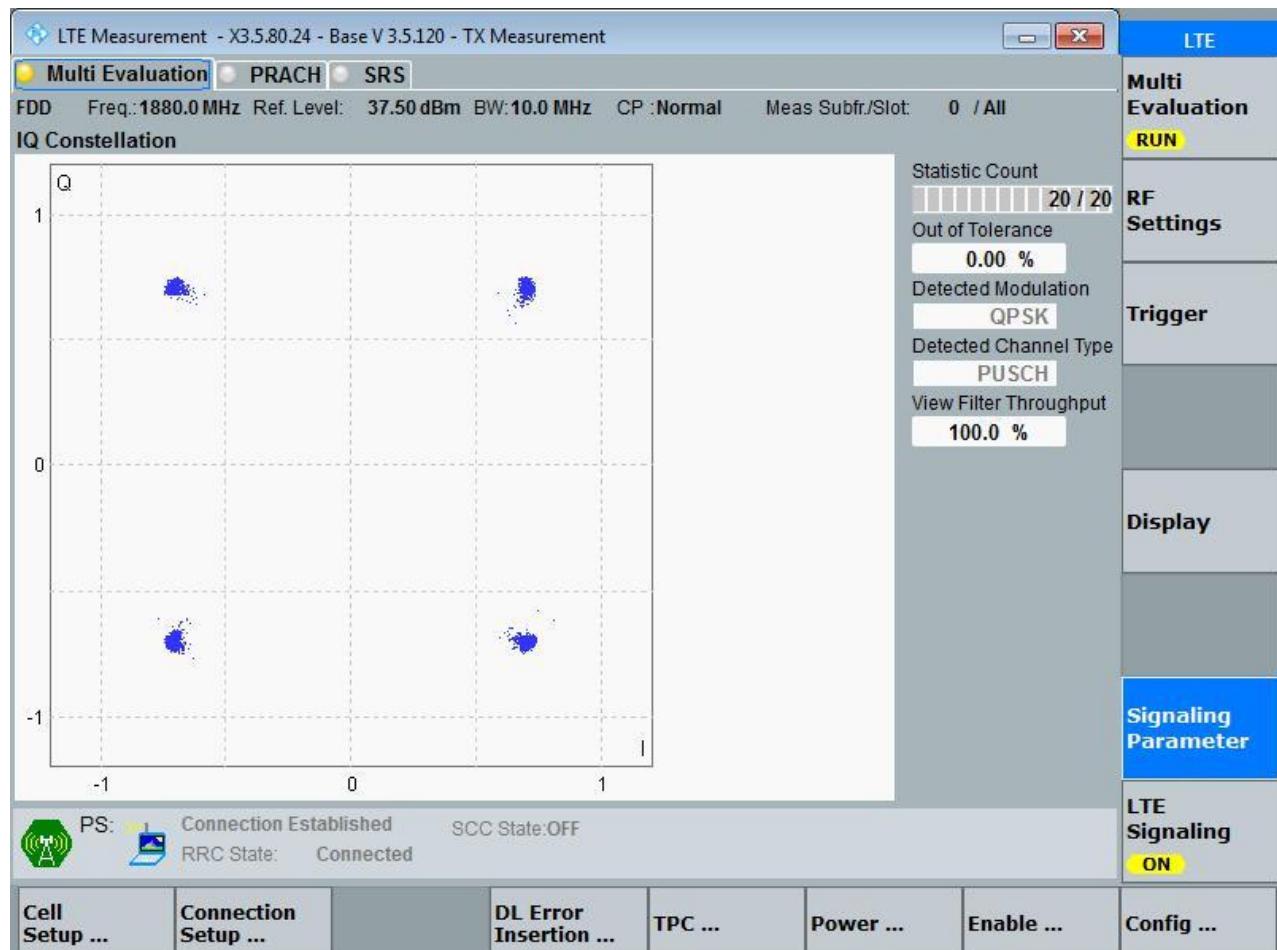
3.1.1.3   Test Mode = LTE /TM1 5MHz

3.1.1.3.1   Test Channel = MCH

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
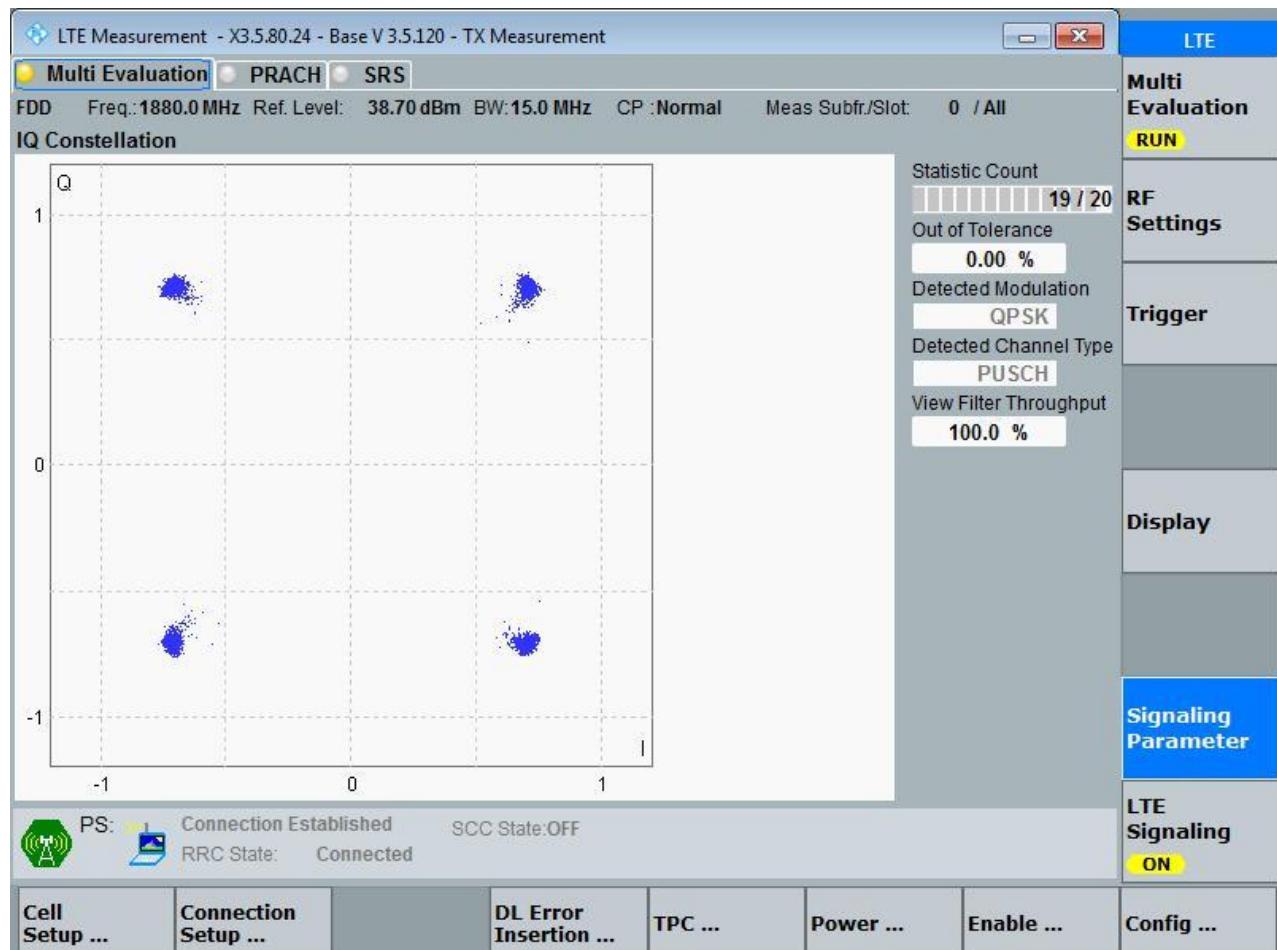
3.1.1.4 Test Mode = LTE /TM1 10MHz

3.1.1.4.1 Test Channel = MCH
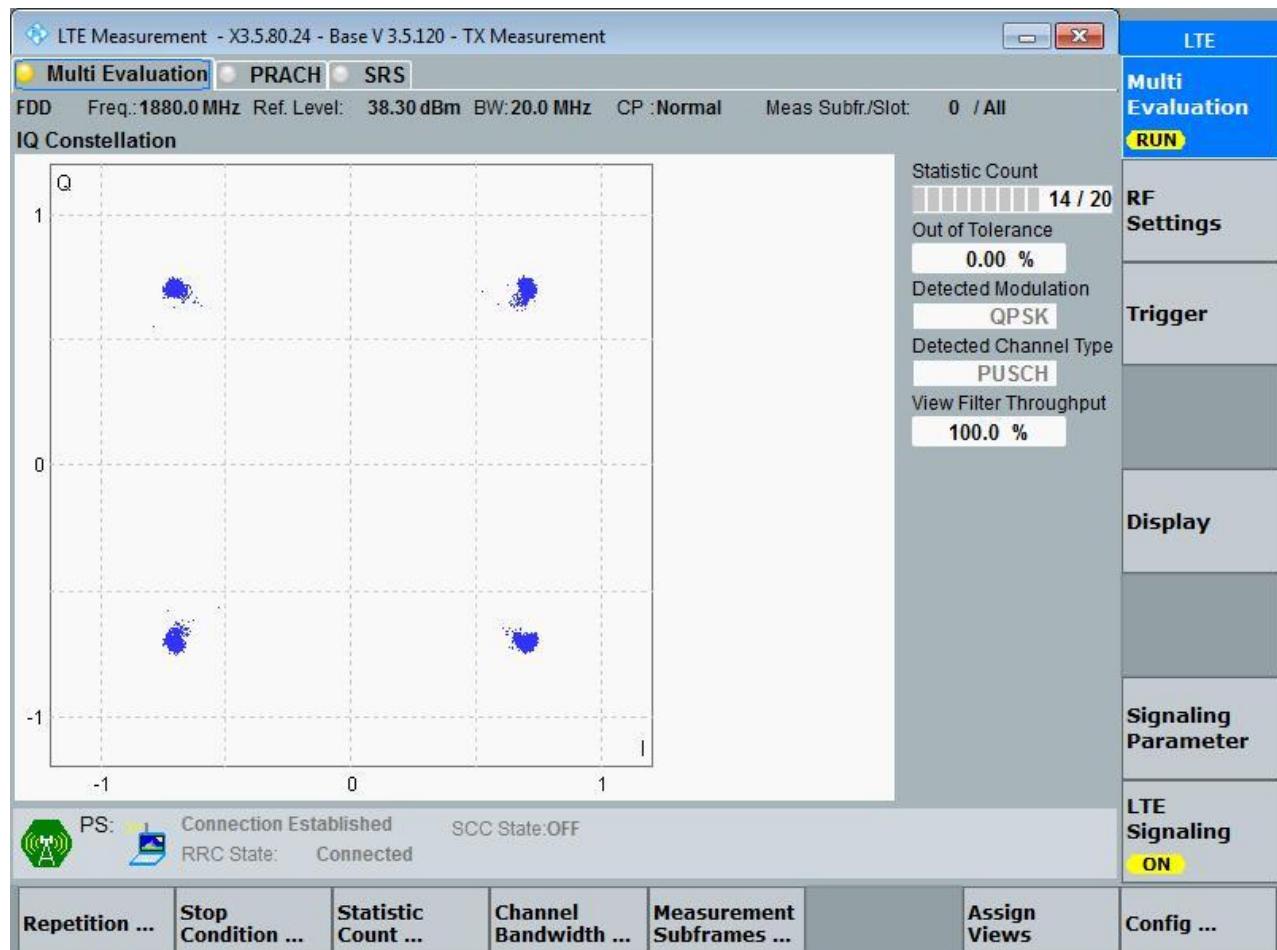
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

3.1.1.5 Test Mode = LTE /TM1 15MHz

3.1.1.5.1 Test Channel = MCH
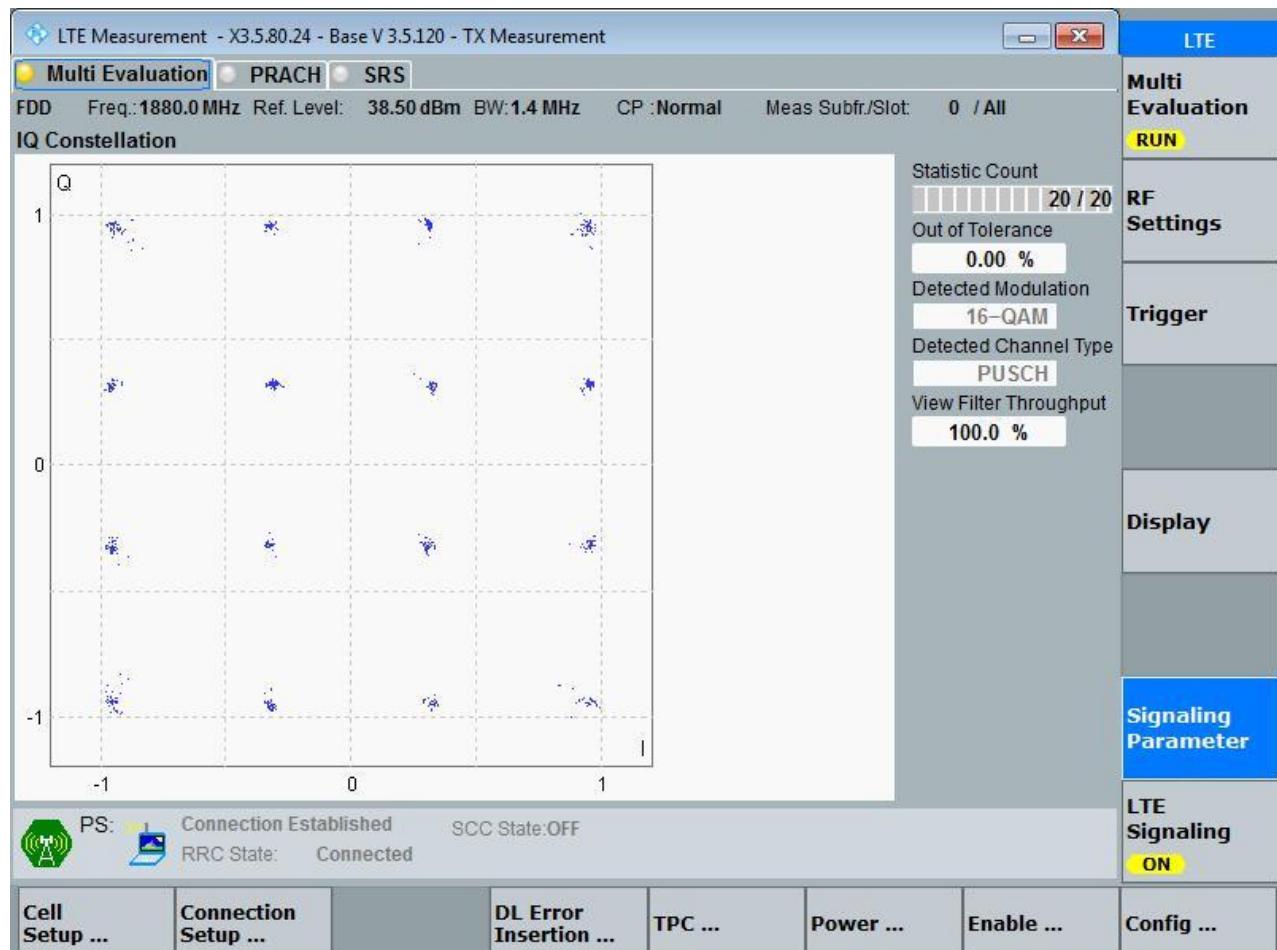
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

3.1.1.6 Test Mode = LTE /TM1 20MHz

3.1.1.6.1 Test Channel = MCH
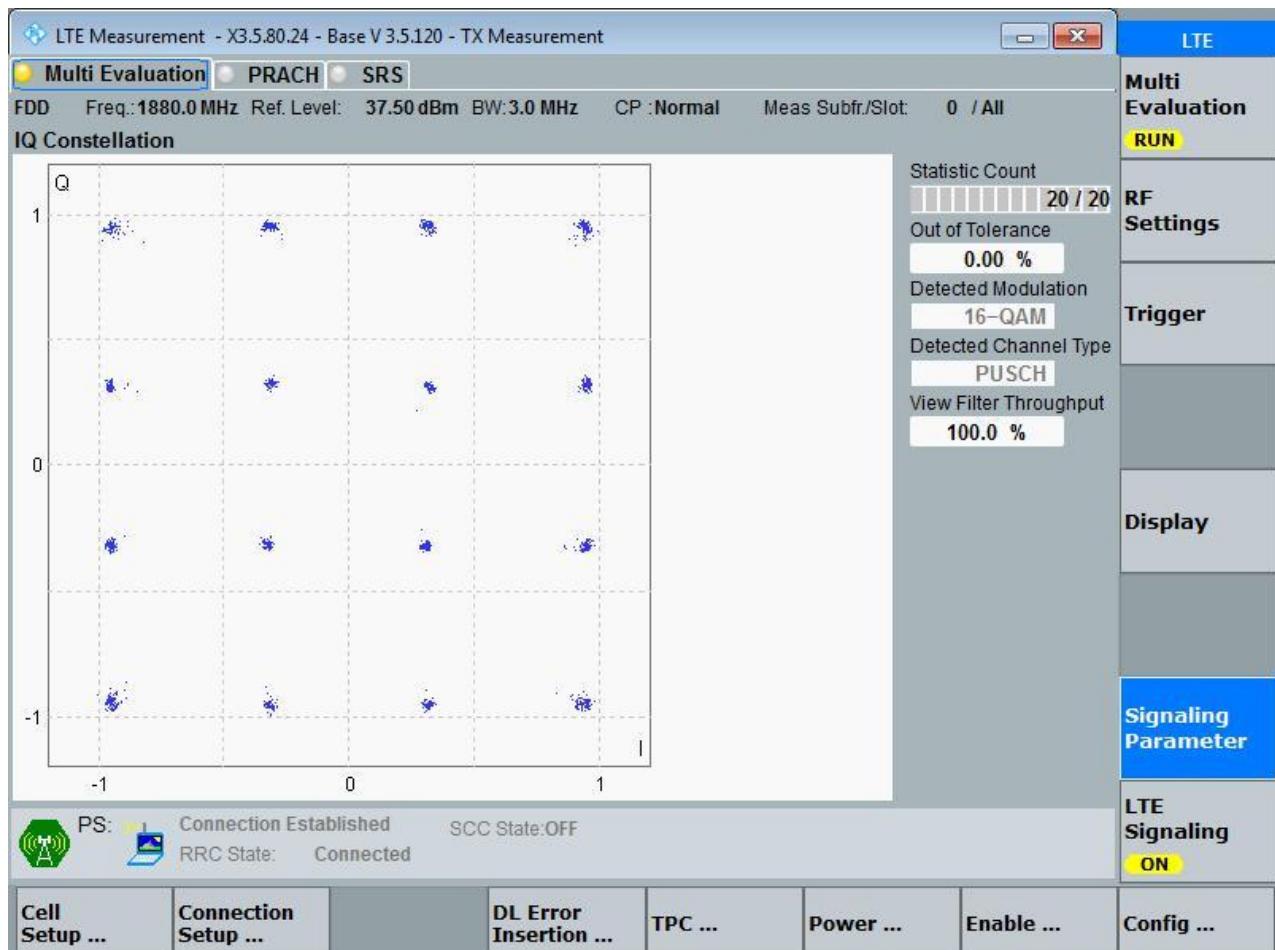
3.1.1.7 Test Mode = LTE /TM2 1.4MHz
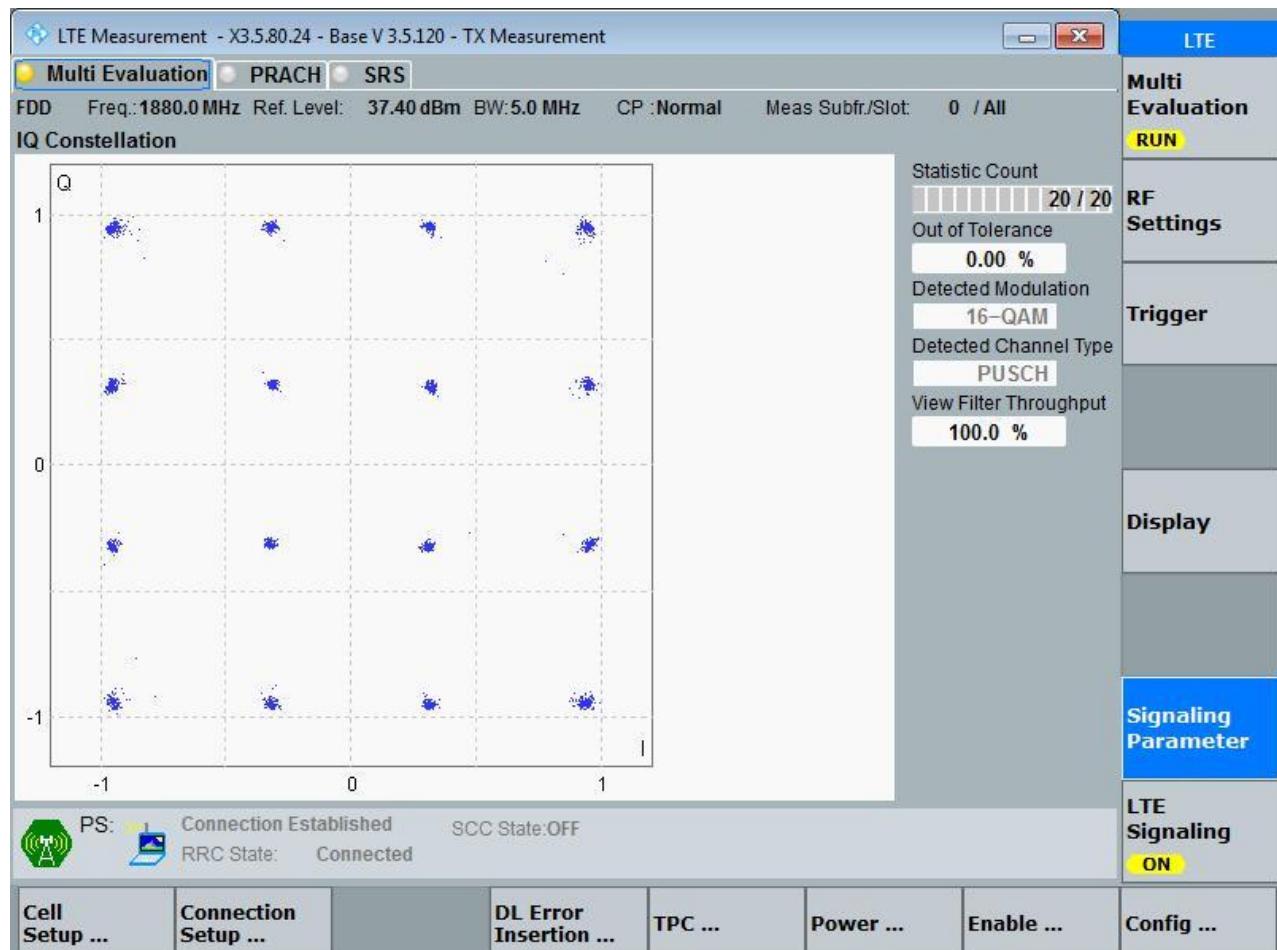
3.1.1.7.1 Test Channel = MCH
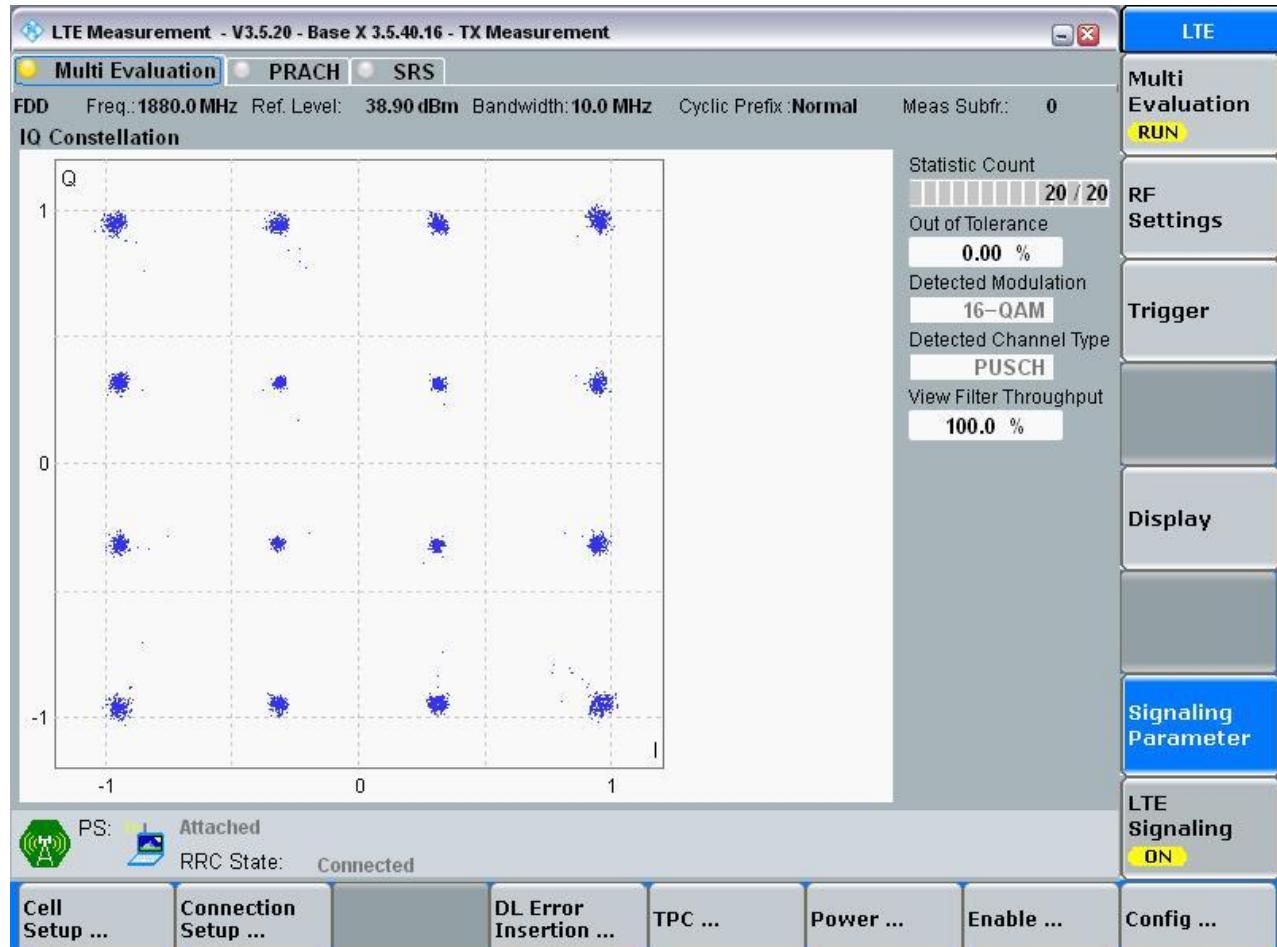
3.1.1.8   Test Mode = LTE /TM2 3MHz

3.1.1.8.1   Test Channel = MCH

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
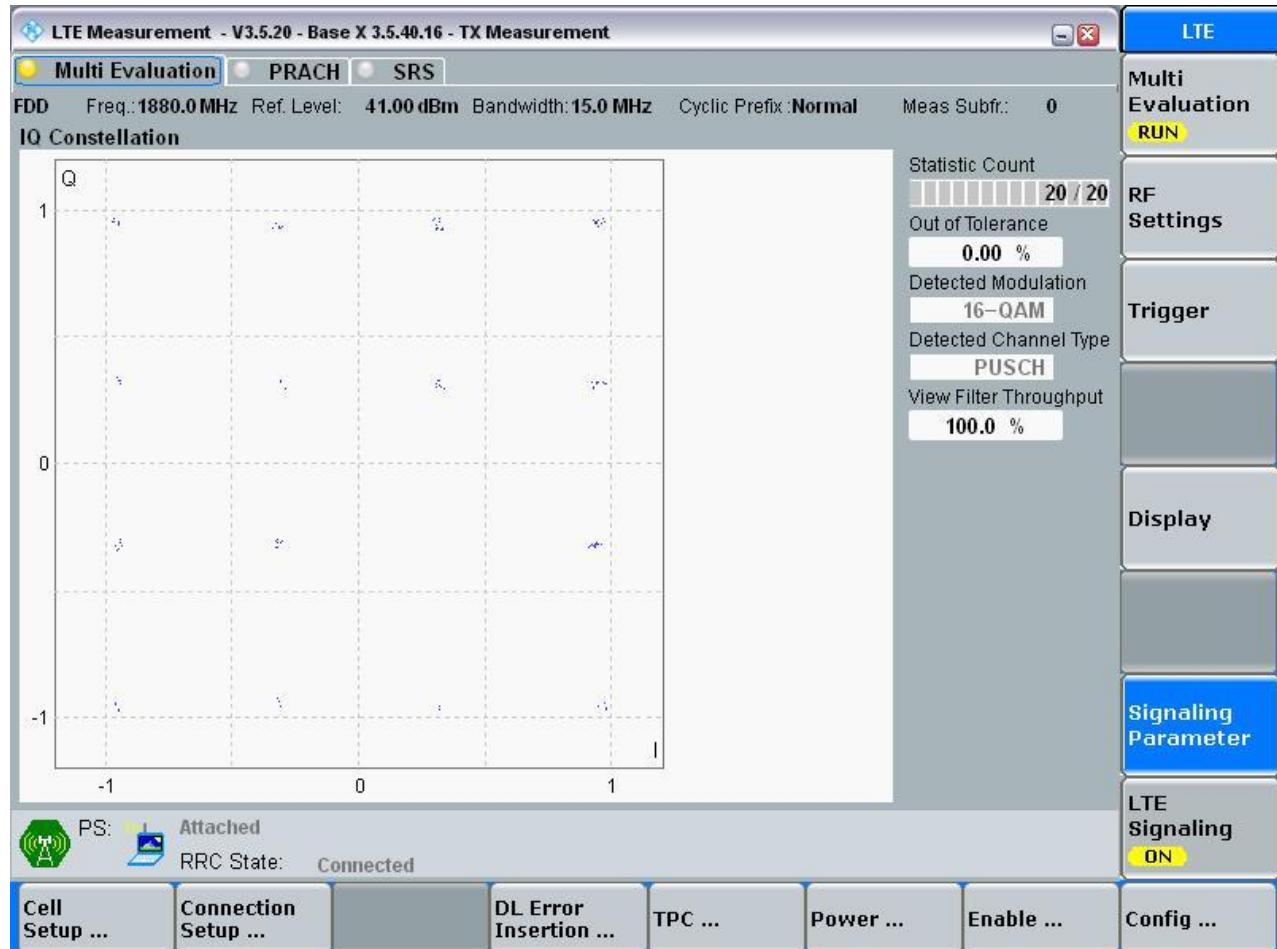
3.1.1.9   Test Mode = LTE /TM2 5MHz

3.1.1.9.1   Test Channel = MCH

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3.1.1.10 Test Mode = LTE /TM2 10MHz

3.1.1.10.1 Test Channel = MCH

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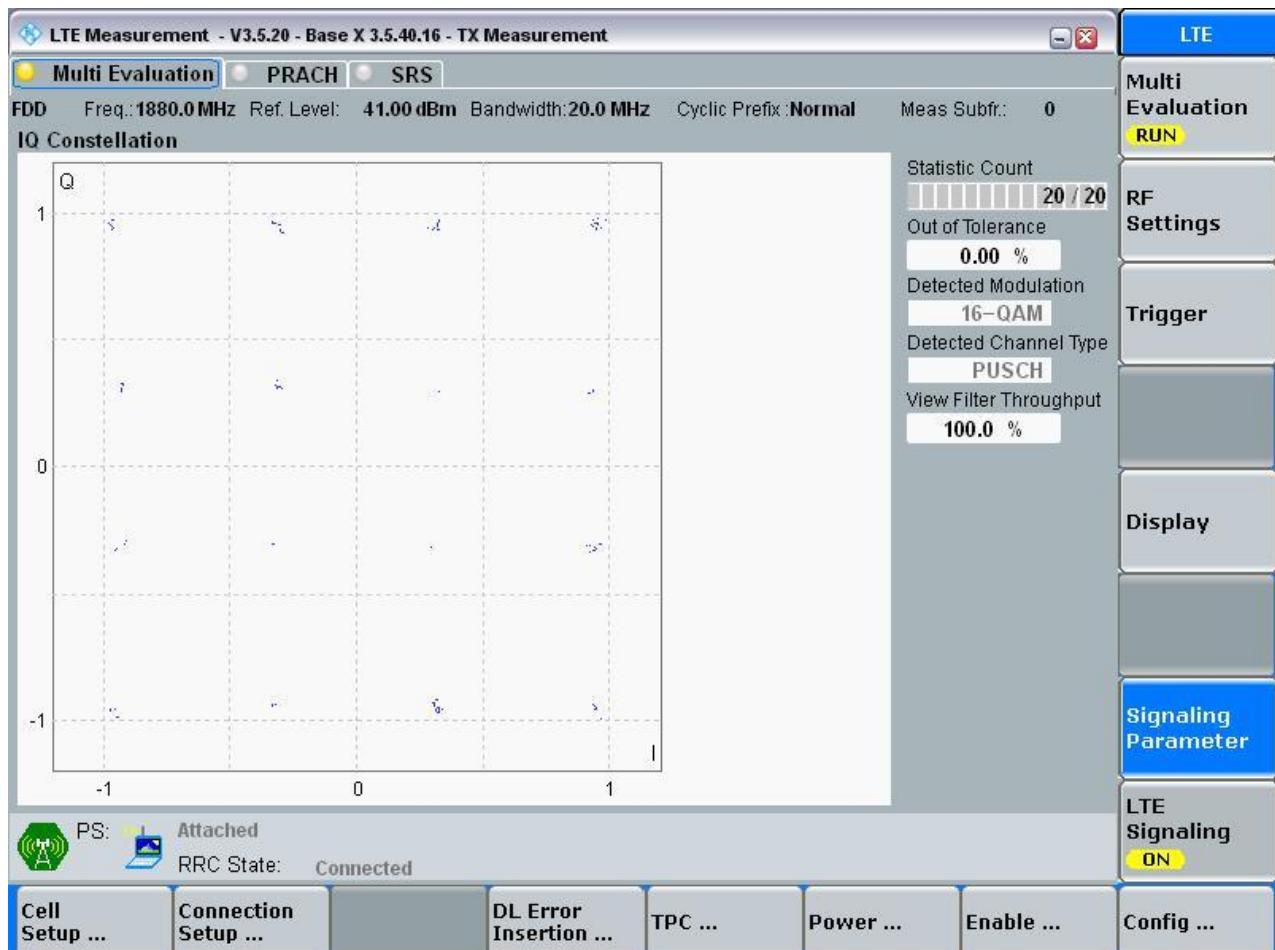
3.1.1.11 Test Mode = LTE /TM2 15MHz

3.1.1.11.1 Test Channel = MCH

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3.1.1.12 Test Mode = LTE /TM2 20MHz

3.1.1.12.1 Test Channel = MCH

4   Bandwidth

Part I - Test Results
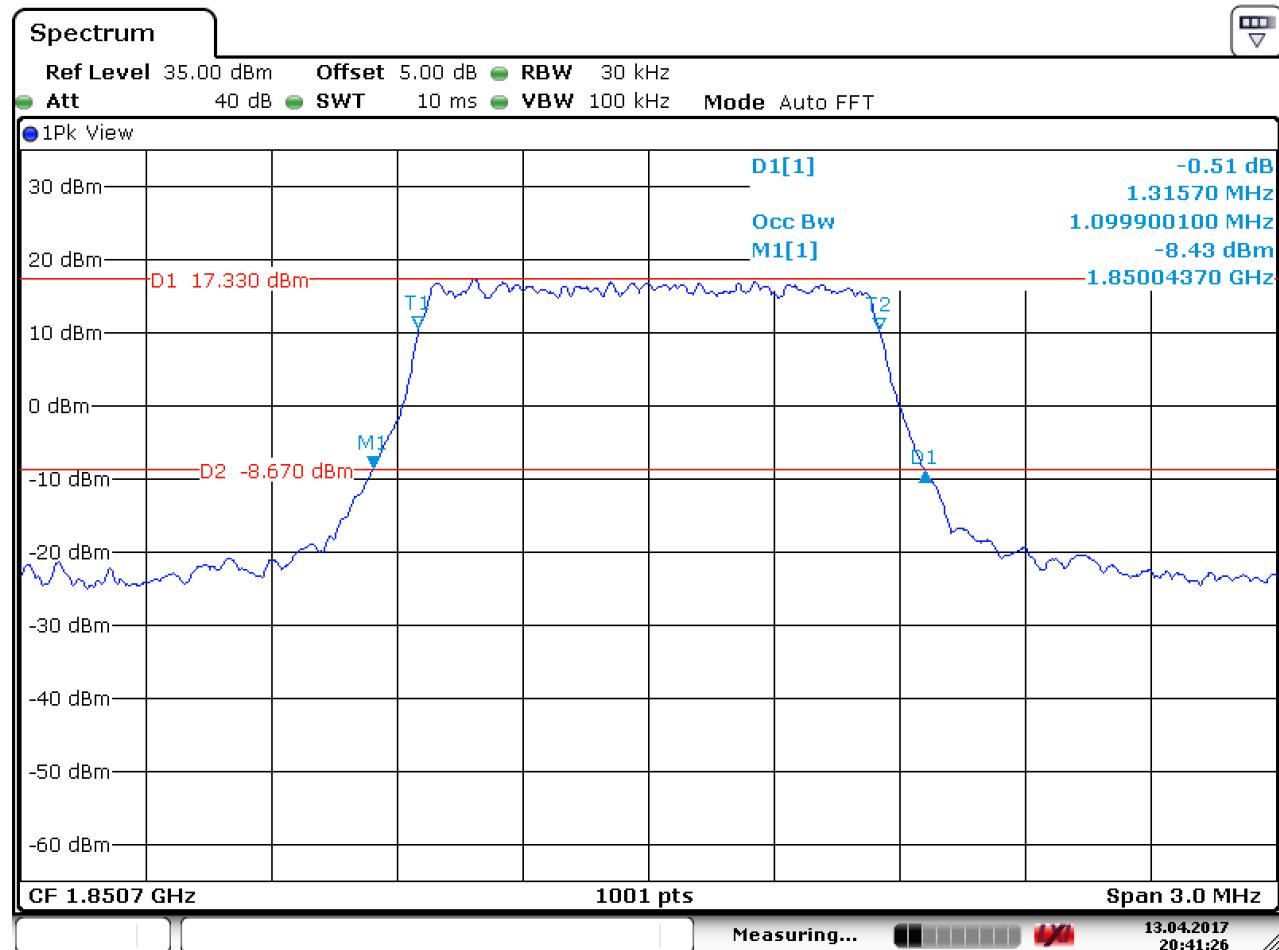
| Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 2	TM1/1.4MHz	LCH	1.10	1.32	PASS
		MCH	1.10	1.31	PASS
		HCH	1.11	1.30	PASS
	TM2/1.4MHz	LCH	1.10	1.31	PASS
		MCH	1.10	1.33	PASS
		HCH	1.10	1.31	PASS
	TM1/ 3MHz	LCH	2.69	2.93	PASS
		MCH	2.69	2.93	PASS
		HCH	2.69	2.95	PASS
	TM2/3MHz	LCH	2.69	2.94	PASS
		MCH	2.69	2.94	PASS
		HCH	2.68	2.94	PASS
	TM1/ 5MHz	LCH	4.50	4.94	PASS
		MCH	4.50	4.98	PASS
		HCH	4.48	4.93	PASS
	TM2/ 5MHz	LCH	4.49	4.94	PASS
		MCH	4.49	4.91	PASS
		HCH	4.50	4.96	PASS
	TM1/10MHz	LCH	8.93	9.71	PASS
		MCH	8.97	9.79	PASS
		HCH	8.93	9.73	PASS
	TM2/ 10MHz	LCH	8.93	9.69	PASS
		MCH	8.95	9.71	PASS
		HCH	8.93	9.73	PASS
	TM1/ 15MHz	LCH	13.43	14.84	PASS
		MCH	13.55	14.96	PASS
		HCH	13.46	14.84	PASS
	TM2/ 15MHz	LCH	13.49	14.84	PASS
		MCH	13.49	14.84	PASS
		HCH	13.49	14.84	PASS
	TM1/ 20MHz	LCH	17.86	19.34	PASS
		MCH	17.94	19.30	PASS
		HCH	17.94	19.62	PASS
	TM2/ 20MHz	LCH	17.90	19.54	PASS
		MCH	17.94	19.42	PASS
		HCH	17.90	19.42	PASS

4.1 For LTE
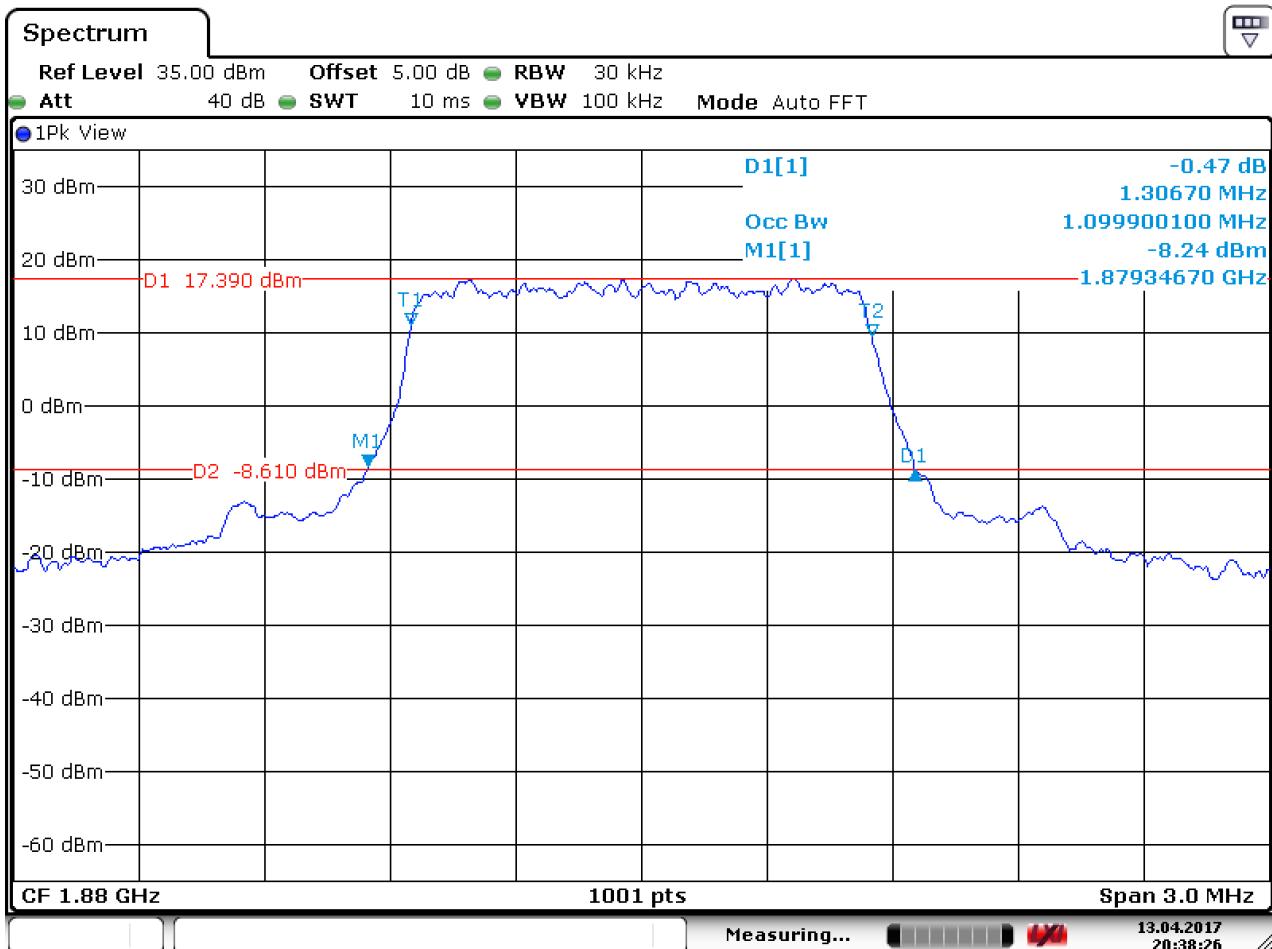
4.1.1 Test Band = LTE band2

4.1.1.1   Test Mode = LTE/TM1 1.4MHz
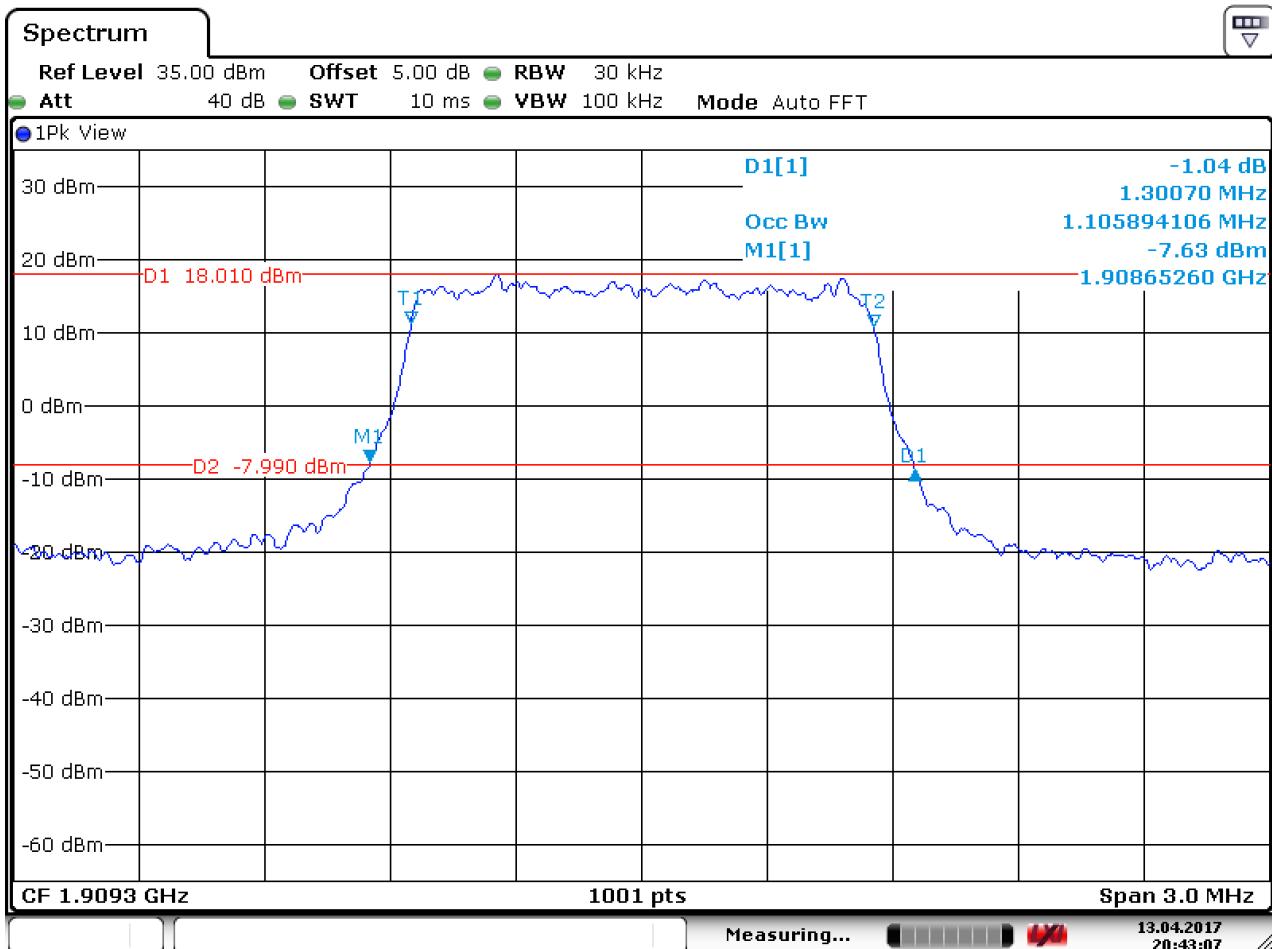
4.1.1.1.1   Test Channel = LCH
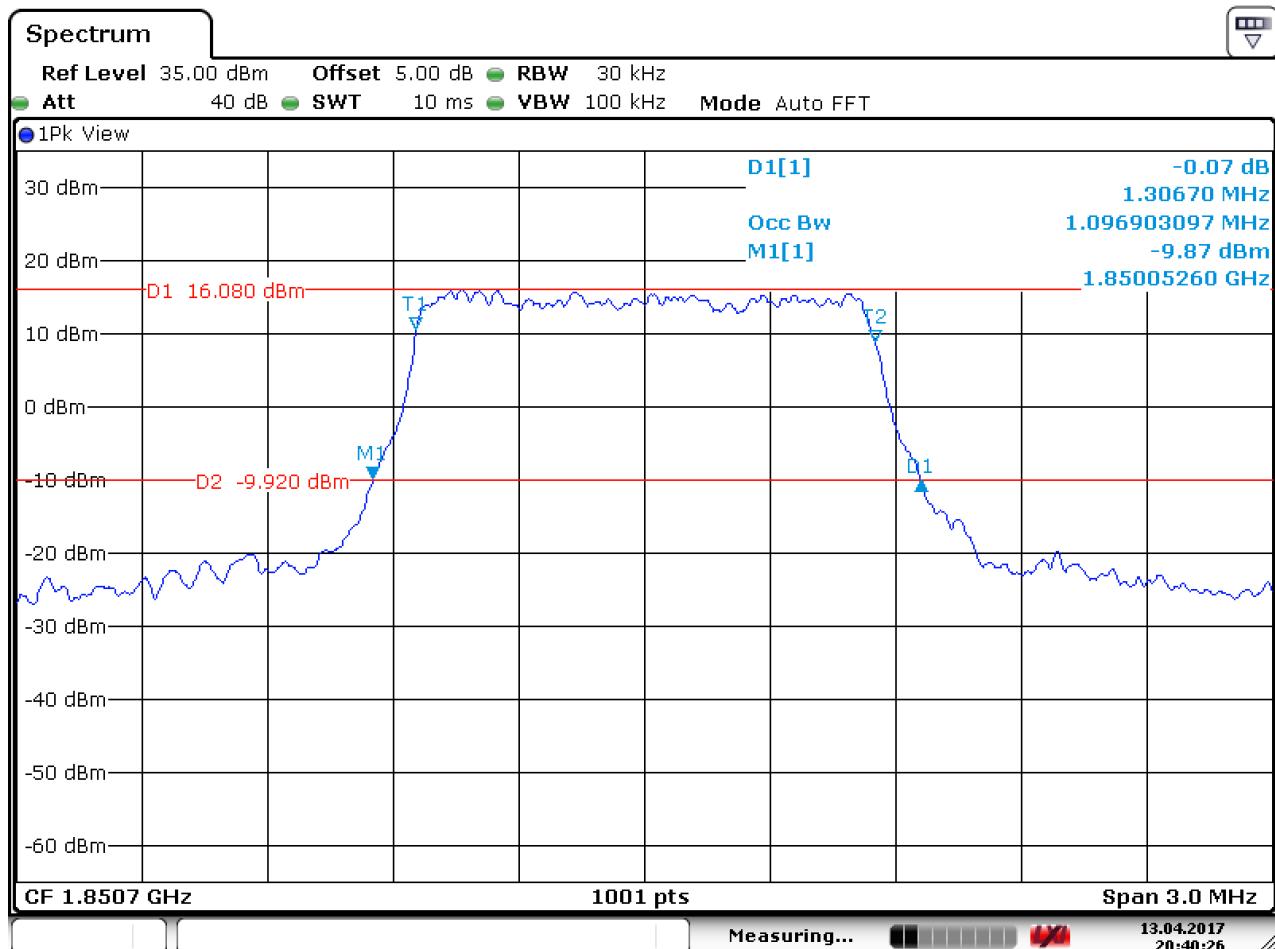
Date: 13.APR.2017 20:41:26

4.1.1.1.2 Test Channel = MCH

Spectrum					
Ref Level 35.00 dBm	Offset 5.00 dB	● RBW 30 kHz			
● Att 40 dB	● SWT 10 ms	● VBW 100 kHz	Mode Auto FFT		

● 1Pk View

D1[1]	-0.47 dB
	1.30670 MHz
Occ Bw	1.099900100 MHz
M1[1]	-8.24 dBm
	1.87934670 GHz

D1 17.390 dBm

D2 -8.610 dBm

CF 1.88 GHz   1001 pts   Span 3.0 MHz

Measuring...   13.04.2017 20:38:26
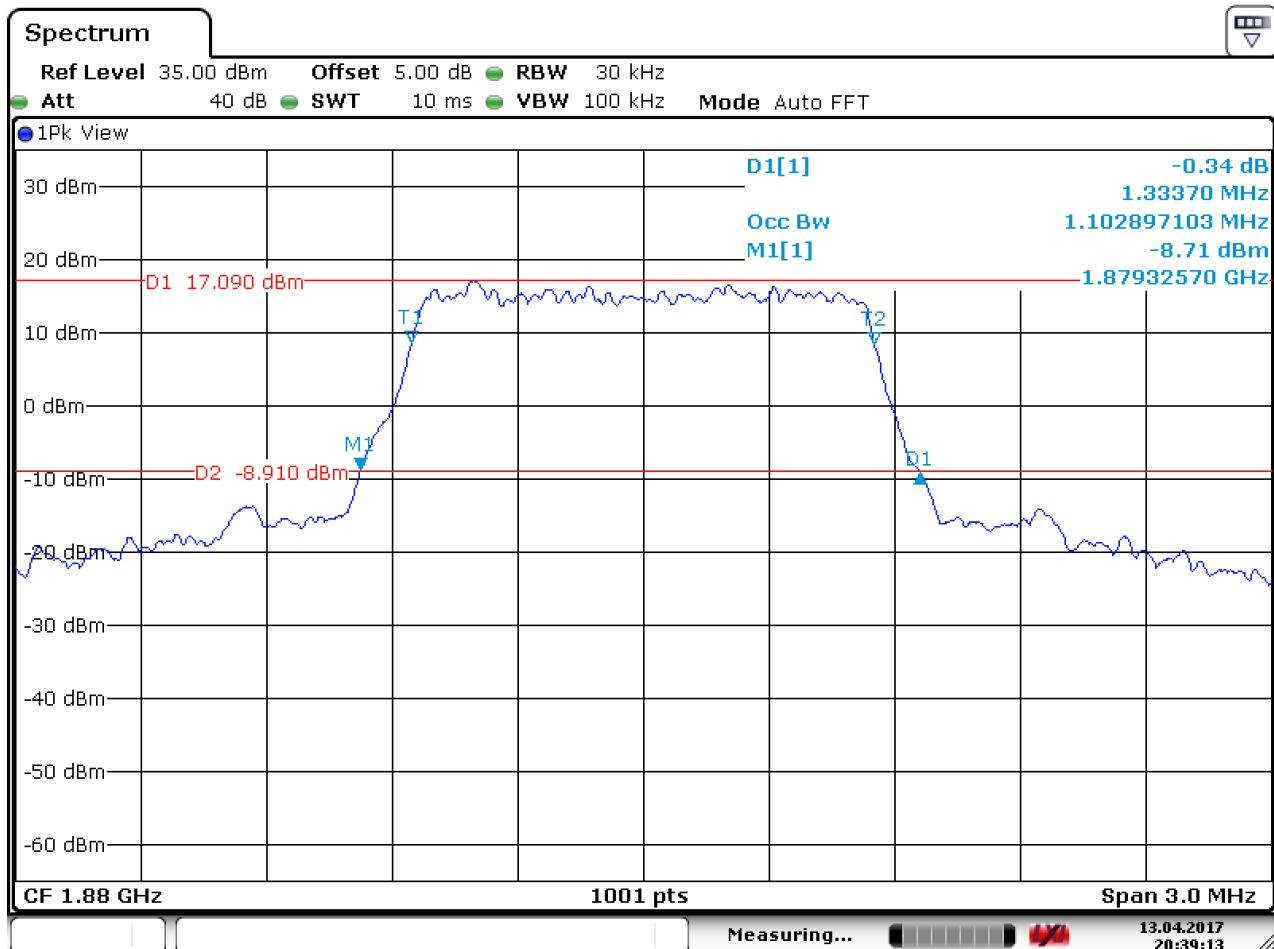
Date: 13.APR.2017 20:38:26

4.1.1.1.3   Test Channel = HCH
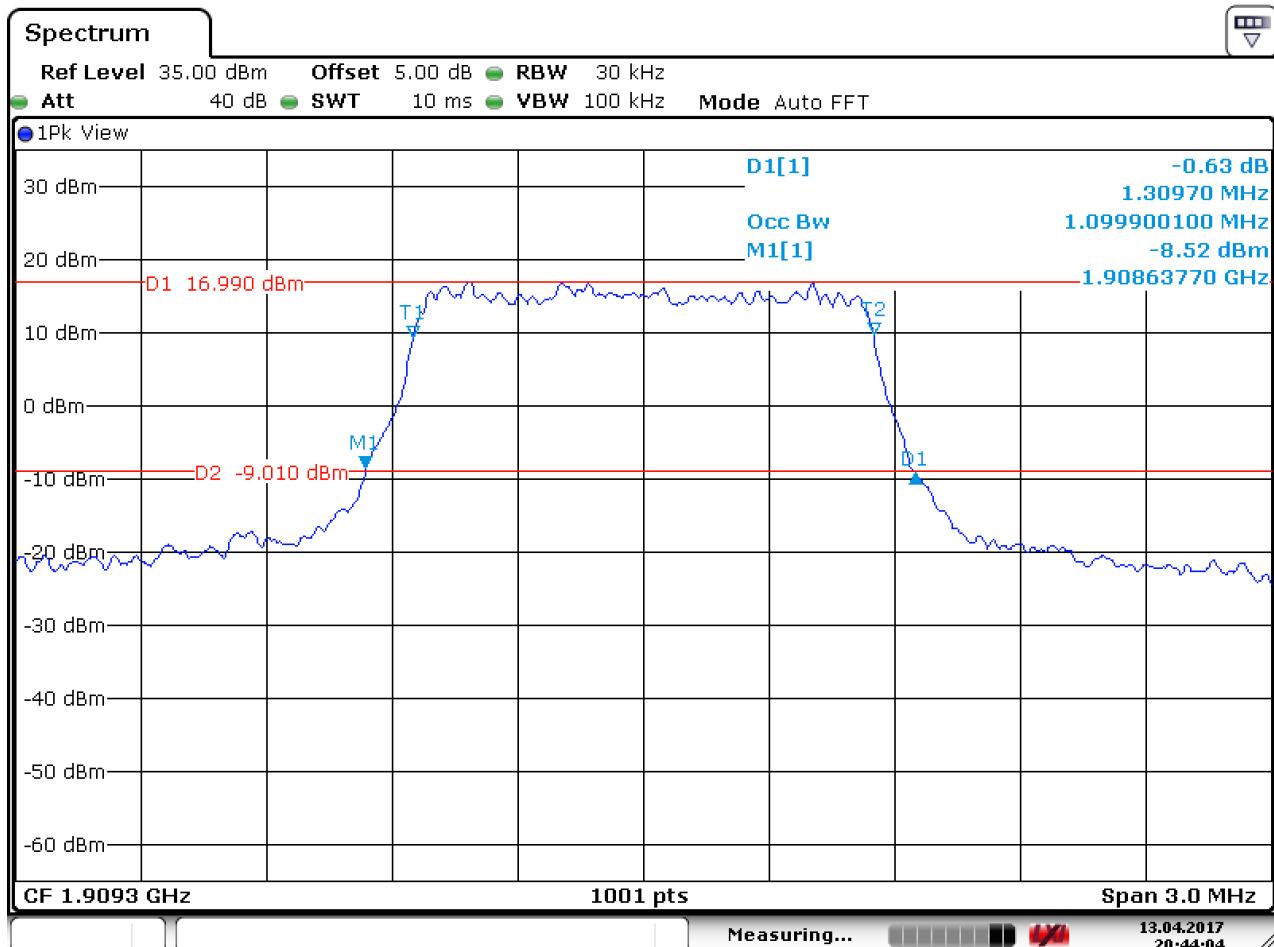
Date: 13.APR.2017 20:43:07

4.1.1.2 Test Mode = LTE/TM2 1.4MHz

4.1.1.2.1 Test Channel = LCH

Date: 13.APR.2017 20:40:27

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
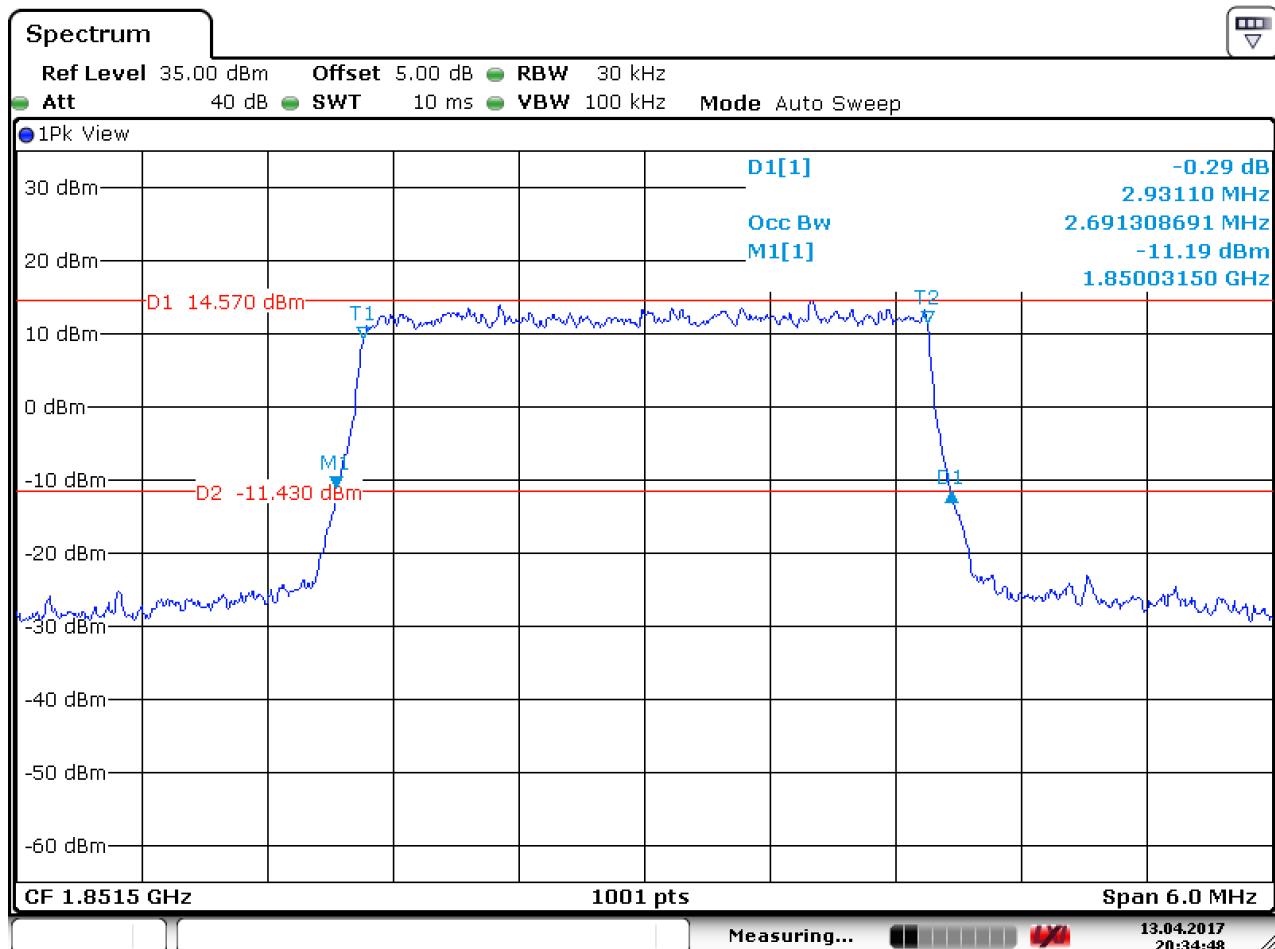
4.1.1.2.2 Test Channel = MCH
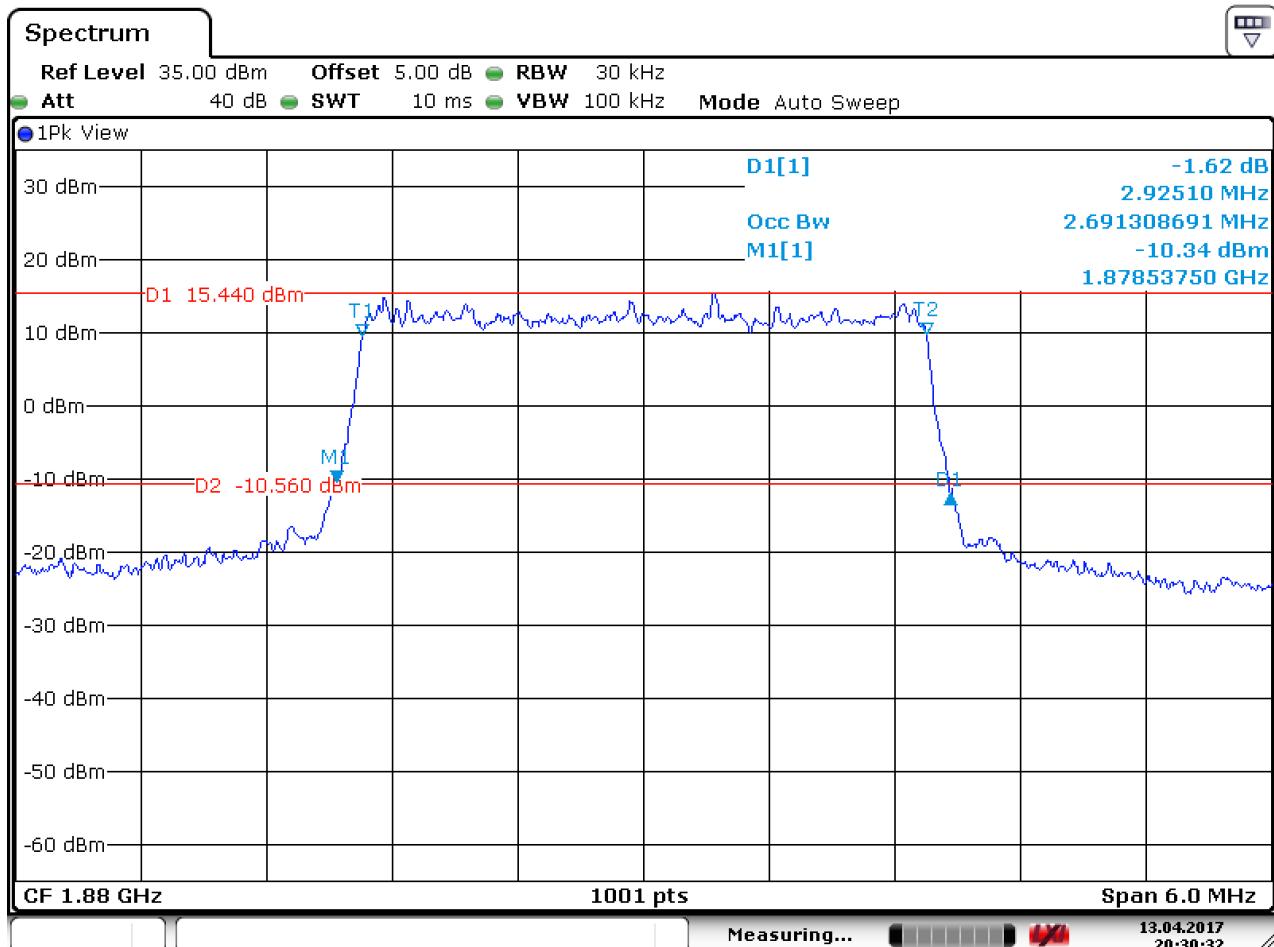
Date: 13.APR.2017 20:39:14

4.1.1.2.3   Test Channel = HCH

Date: 13.APR.2017 20:44:05

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
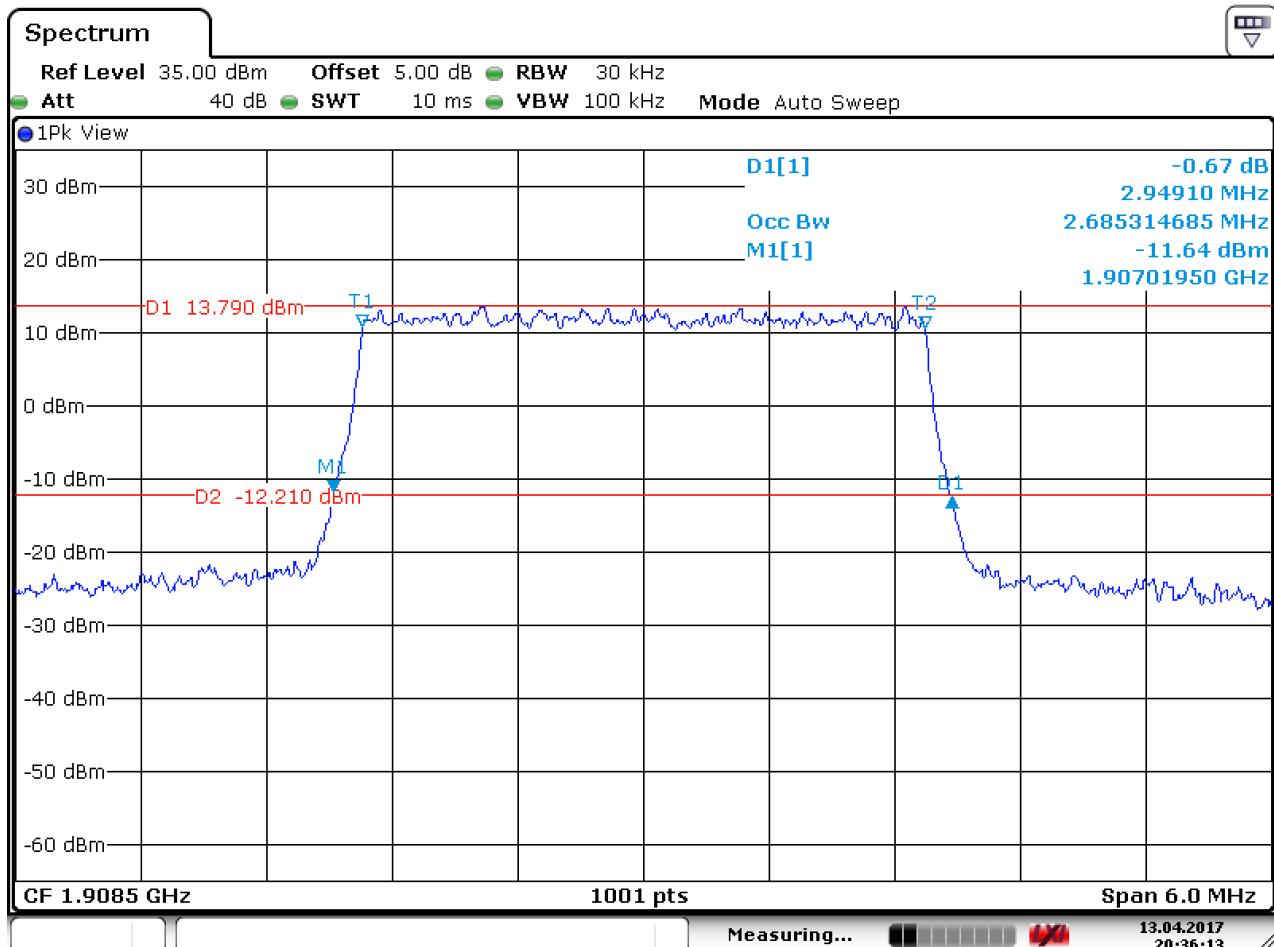
4.1.1.3   Test Mode = LTE/TM1 3MHz

4.1.1.3.1   Test Channel = LCH

Date: 13.APR.2017 20:34:48

**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**
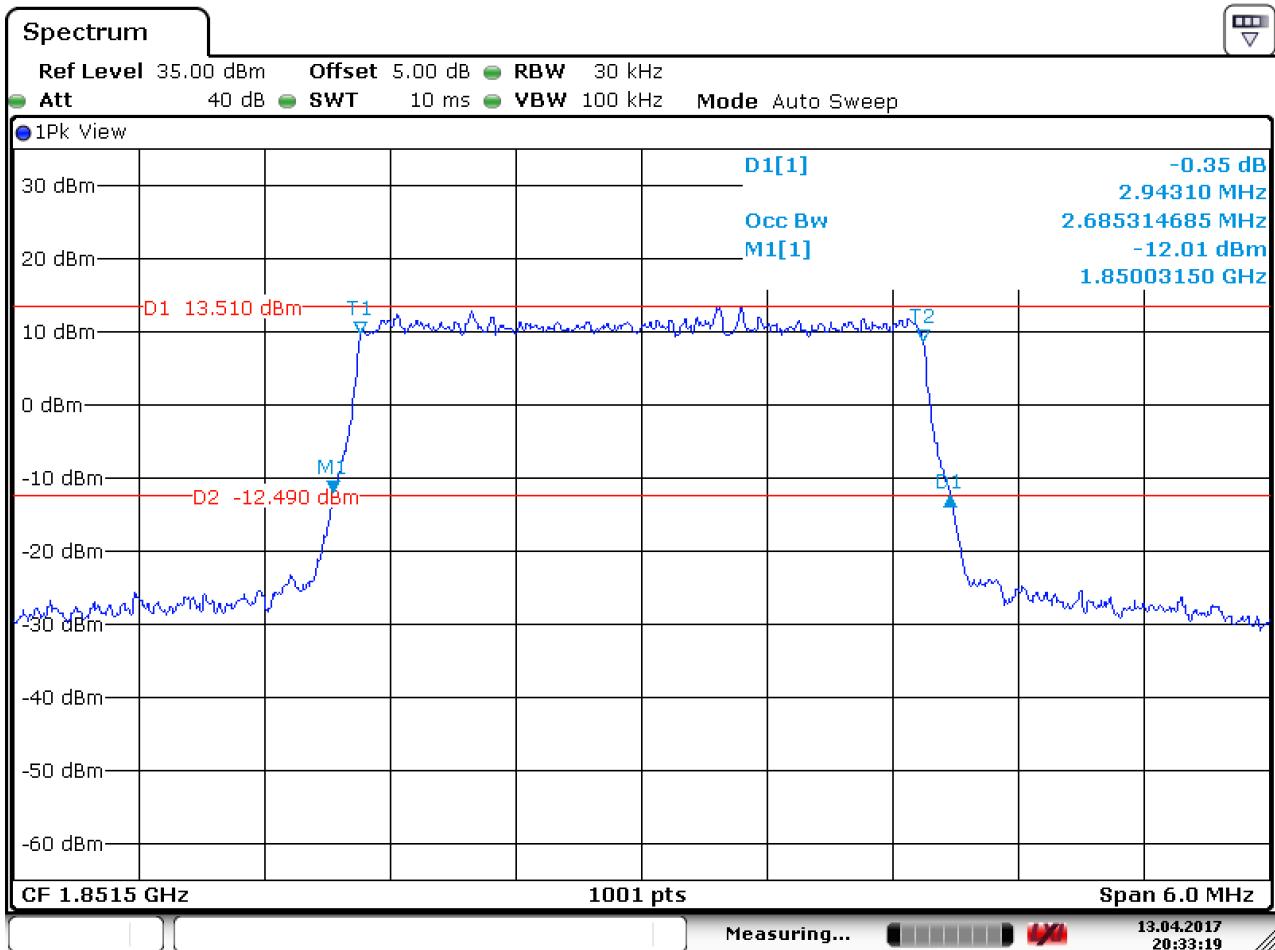
4.1.1.3.2 Test Channel = MCH

Date: 13.APR.2017 20:30:32

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

4.1.1.3.3 Test Channel = HCH

Spectrum					
Ref Level 35.00 dBm	Offset 5.00 dB	RBW 30 kHz			
Att 40 dB	SWT 10 ms	VBW 100 kHz	Mode Auto Sweep		

1Pk View

D1[1] −0.67 dB 2.94910 MHz
Occ Bw 2.685314685 MHz
M1[1] −11.64 dBm 1.90701950 GHz

D1 13.790 dBm

D2 −12.210 dBm

CF 1.9085 GHz   1001 pts   Span 6.0 MHz

Measuring...   13.04.2017 20:36:13
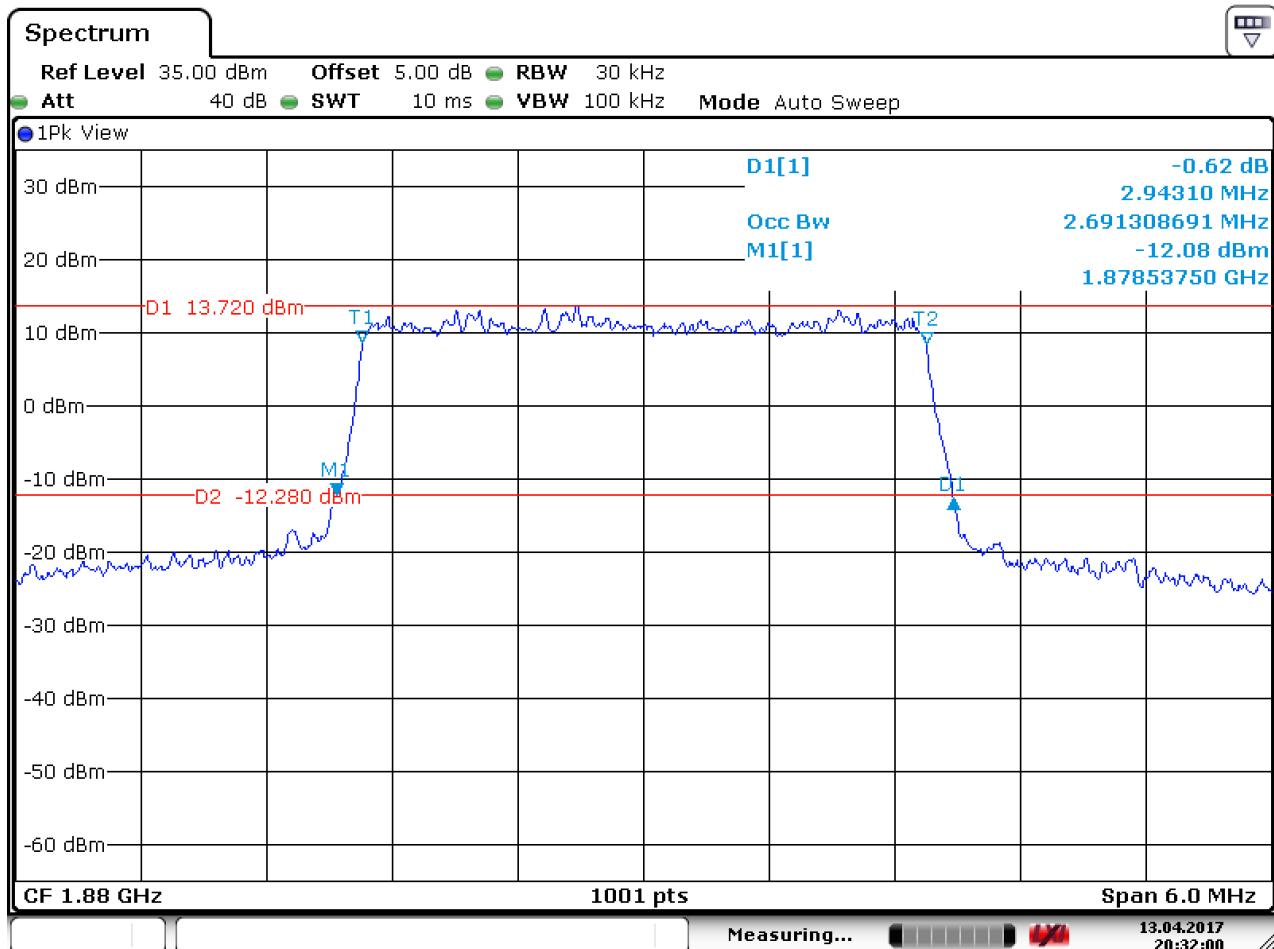
Date: 13.APR.2017 20:36:14
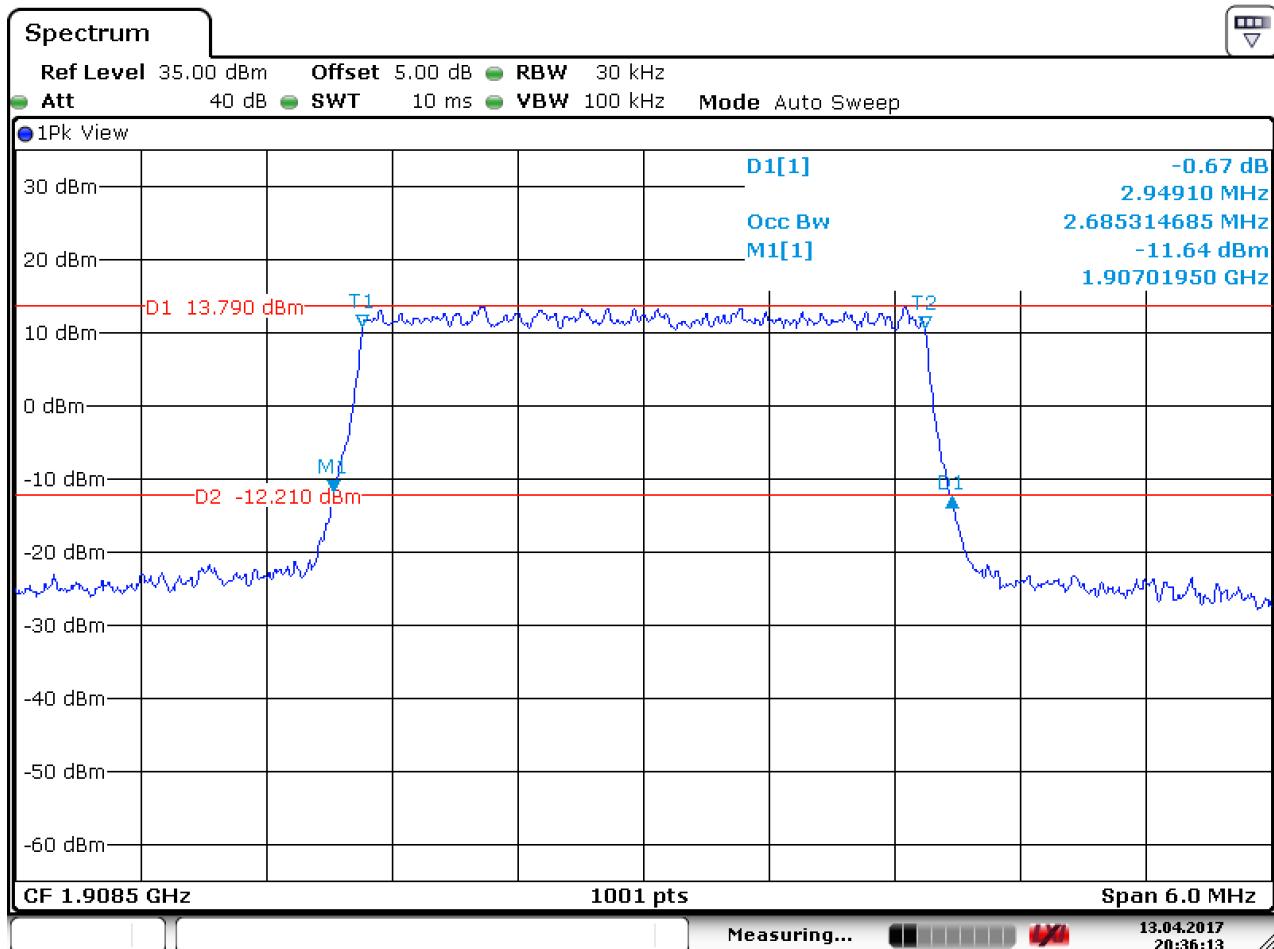
4.1.1.4   Test Mode = LTE/TM2 3MHz

4.1.1.4.1   Test Channel = LCH

Date: 13.APR.2017 20:33:19

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

4.1.1.4.2 Test Channel = MCH

Spectrum

Ref Level	35.00 dBm	Offset	5.00 dB	● RBW	30 kHz
● Att	40 dB	● SWT	10 ms	● VBW	100 kHz

Mode Auto Sweep

● 1Pk View

D1[1]   -0.62 dB
                2.94310 MHz
Occ Bw   2.691308691 MHz
M1[1]   -12.08 dBm
                1.87853750 GHz

D1 13.720 dBm

D2 -12.280 dBm

CF 1.88 GHz   1001 pts   Span 6.0 MHz

Measuring...   13.04.2017 20:32:00
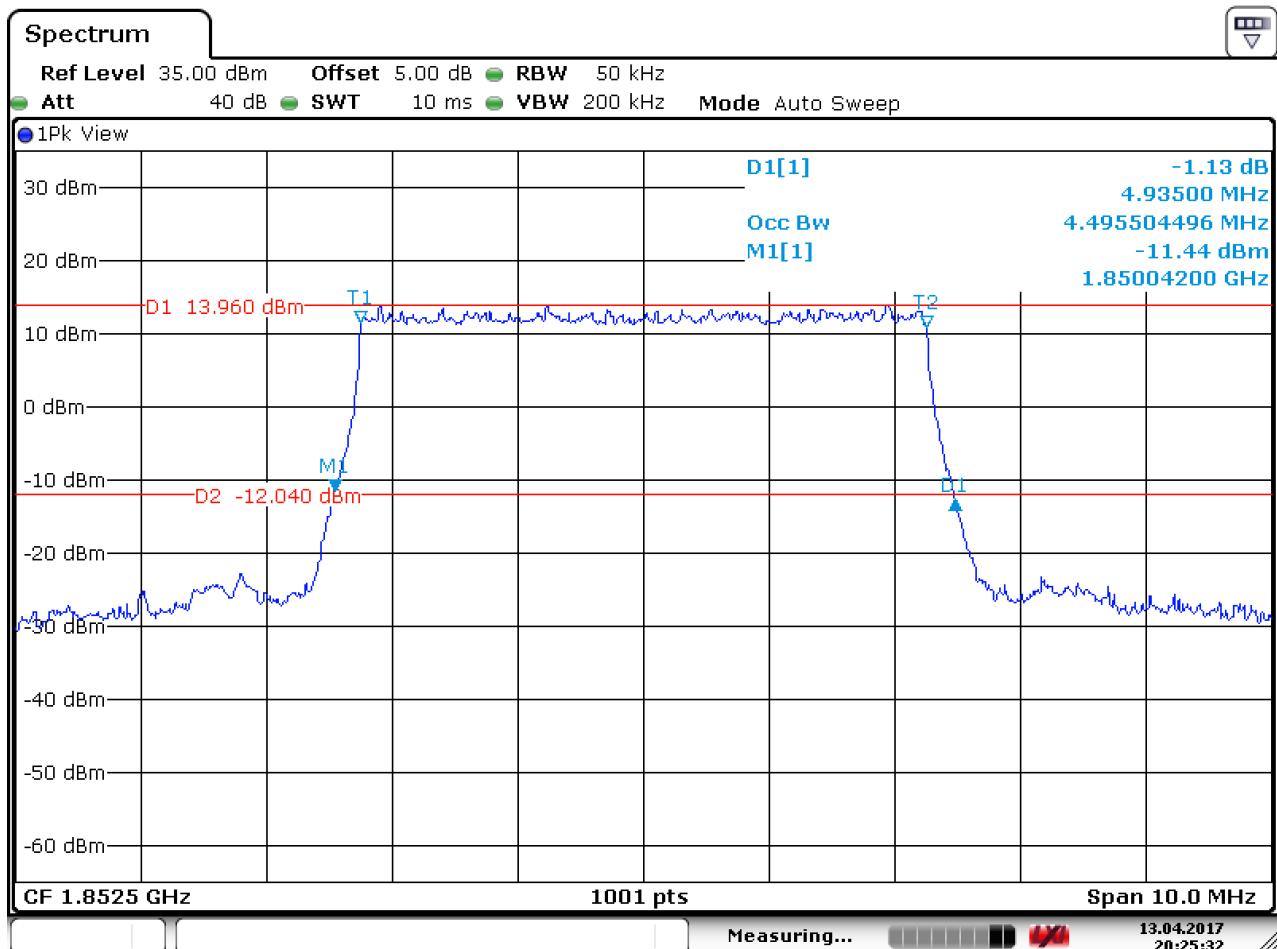
Date: 13.APR.2017 20:32:01

4.1.1.4.3　Test Channel = HCH

Spectrum

| Ref Level | 35.00 dBm | Offset | 5.00 dB | RBW | 30 kHz |
| Att | 40 dB | SWT | 10 ms | VBW | 100 kHz | Mode Auto Sweep |

1Pk View

D1[1]　　−0.67 dB　2.94910 MHz
Occ Bw　　2.685314685 MHz
M1[1]　　−11.64 dBm　1.90701950 GHz

D1 13.790 dBm

D2 −12.210 dBm

CF 1.9085 GHz　　　1001 pts　　　Span 6.0 MHz

Measuring...　13.04.2017　20:36:13
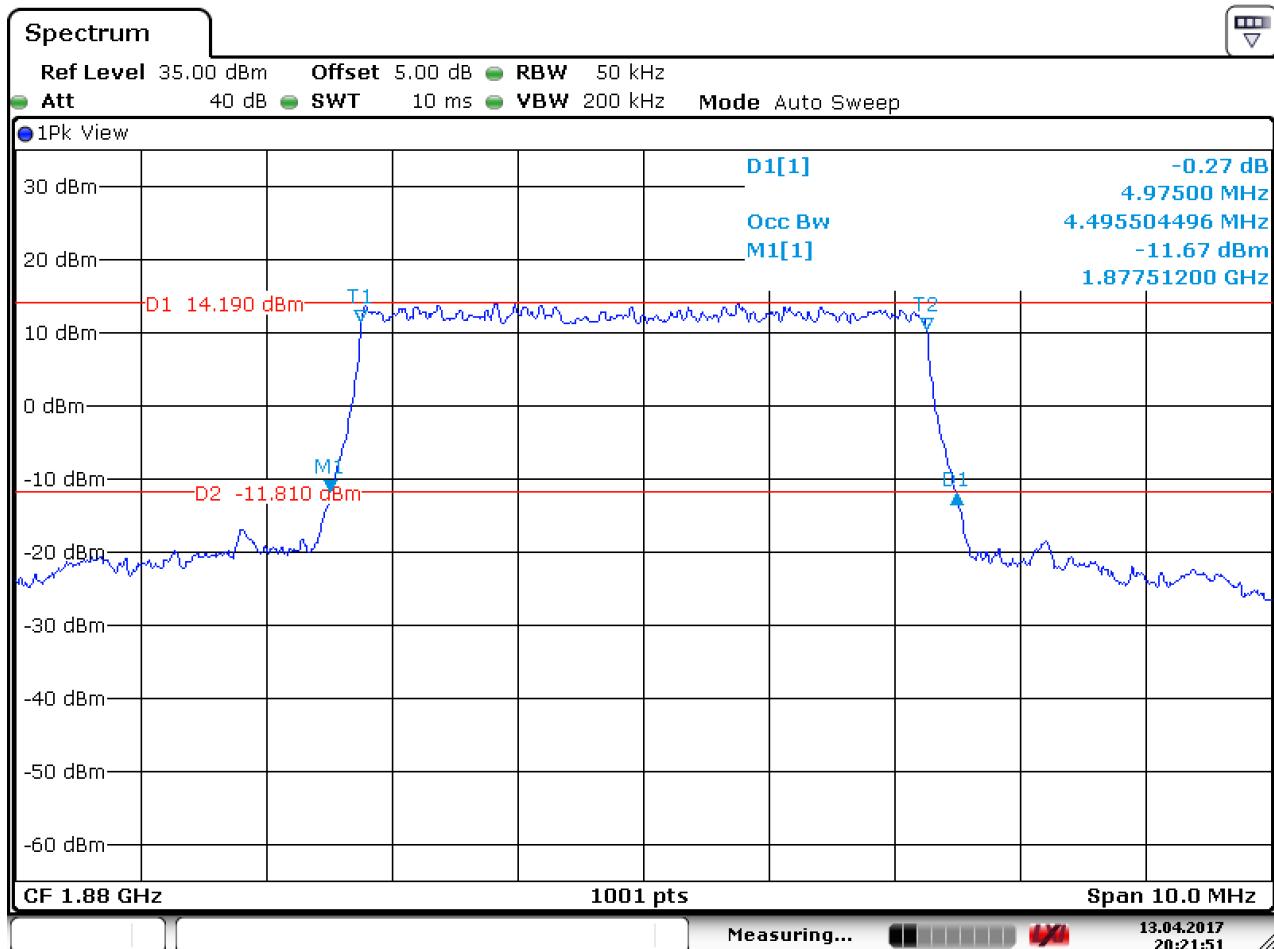
Date: 13.APR.2017　20:36:14

4.1.1.5 Test Mode = LTE/TM1 5MHz
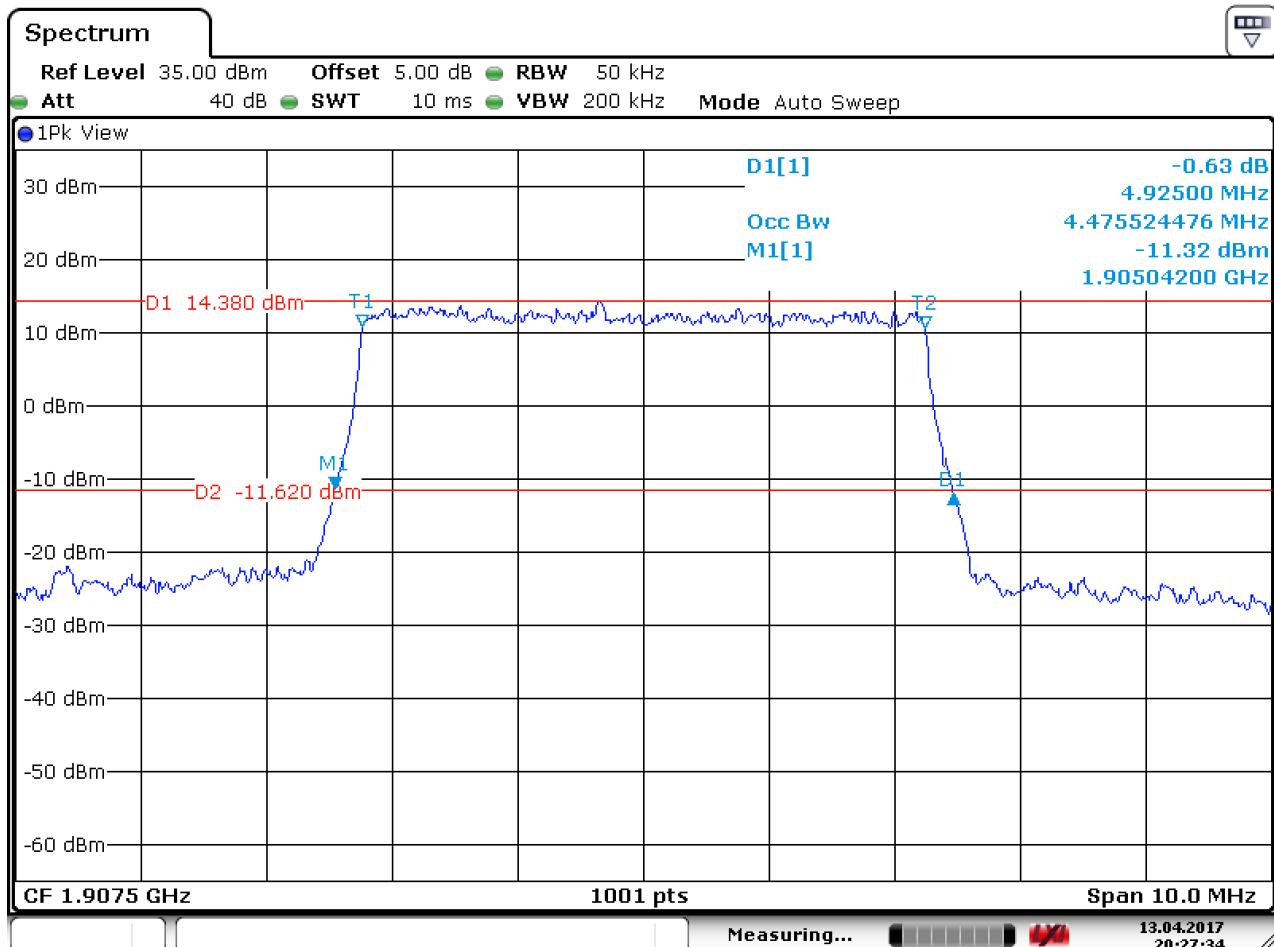
4.1.1.5.1 Test Channel = LCH
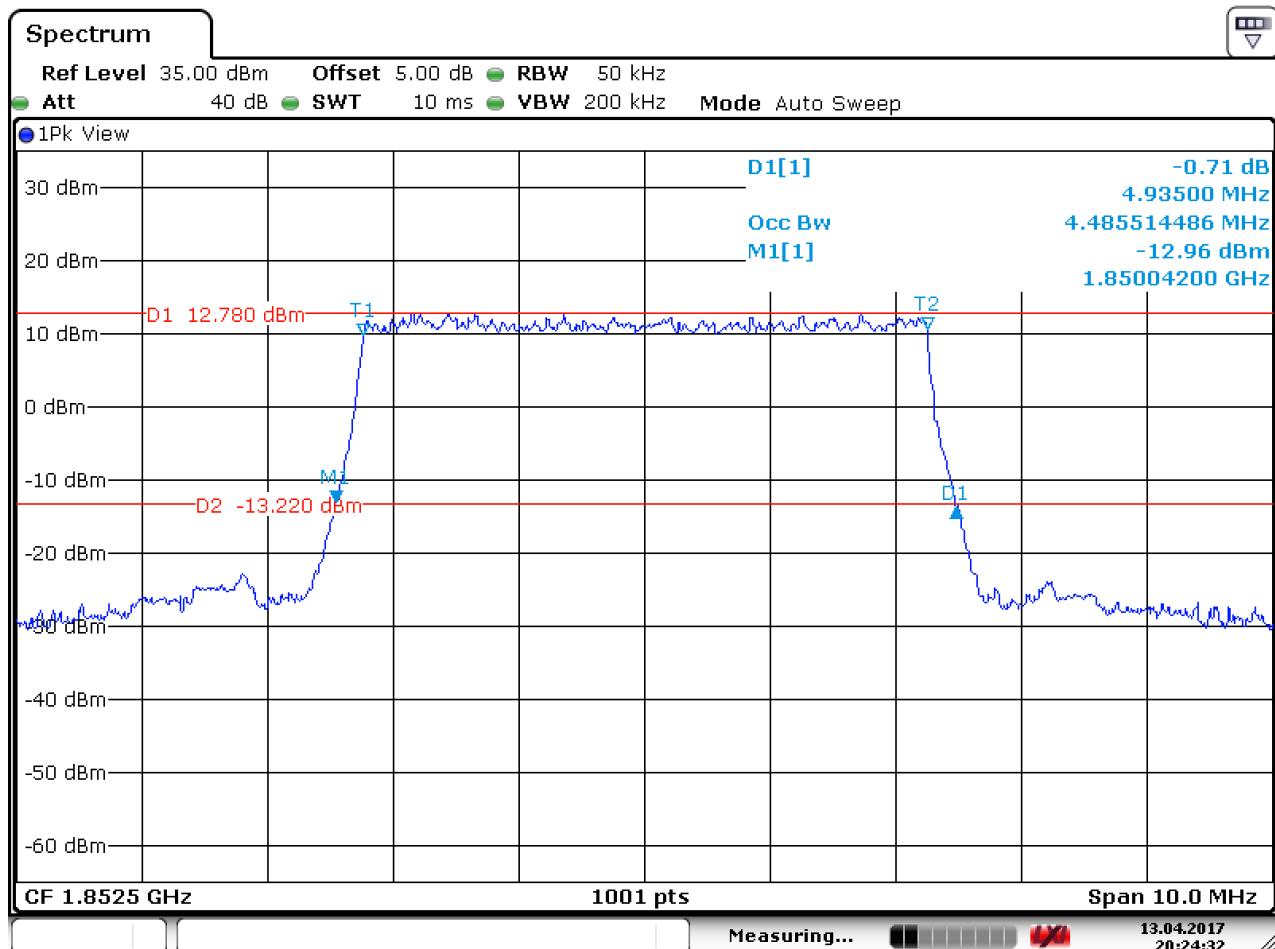
Date: 13.APR.2017 20:25:33

4.1.1.5.2   Test Channel = MCH

Date: 13.APR.2017 20:21:51

4.1.1.5.3 Test Channel = HCH

Spectrum

Ref Level	35.00 dBm	Offset	5.00 dB	● RBW	50 kHz
● Att	40 dB	● SWT	10 ms	● VBW	200 kHz

Mode Auto Sweep

●1Pk View

```
                                    D1[1]              -0.63 dB
30 dBm                                              4.92500 MHz
                                    Occ Bw       4.475524476 MHz
20 dBm                              M1[1]             -11.32 dBm
                                                  1.90504200 GHz
D1 14.380 dBm        T1                              T2
10 dBm

0 dBm

-10 dBm        D2 -11.620 dBm      M1                        D1

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm
```

CF 1.9075 GHz	1001 pts	Span 10.0 MHz

Measuring... 13.04.2017 20:27:34
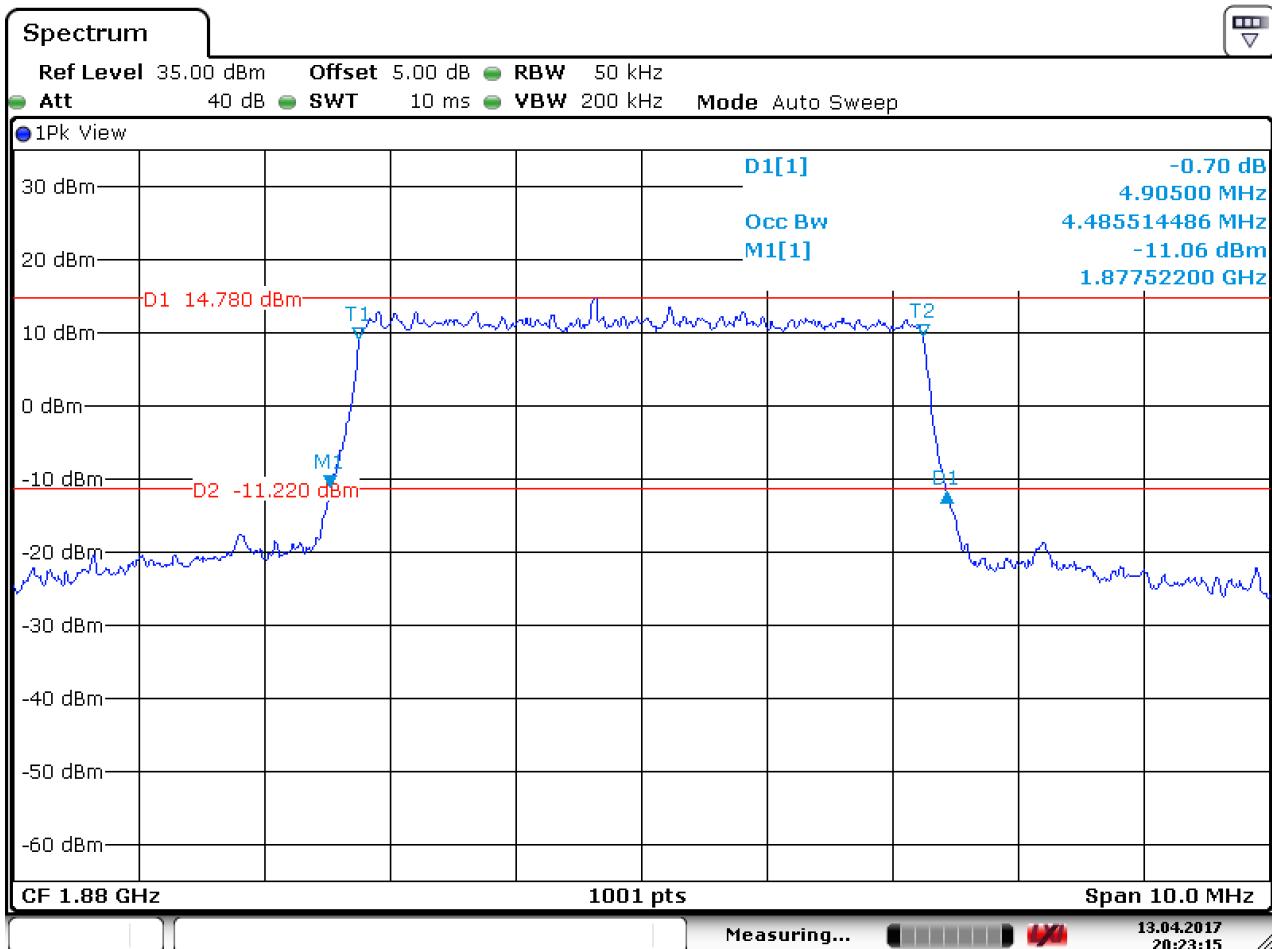
Date: 13.APR.2017 20:27:34
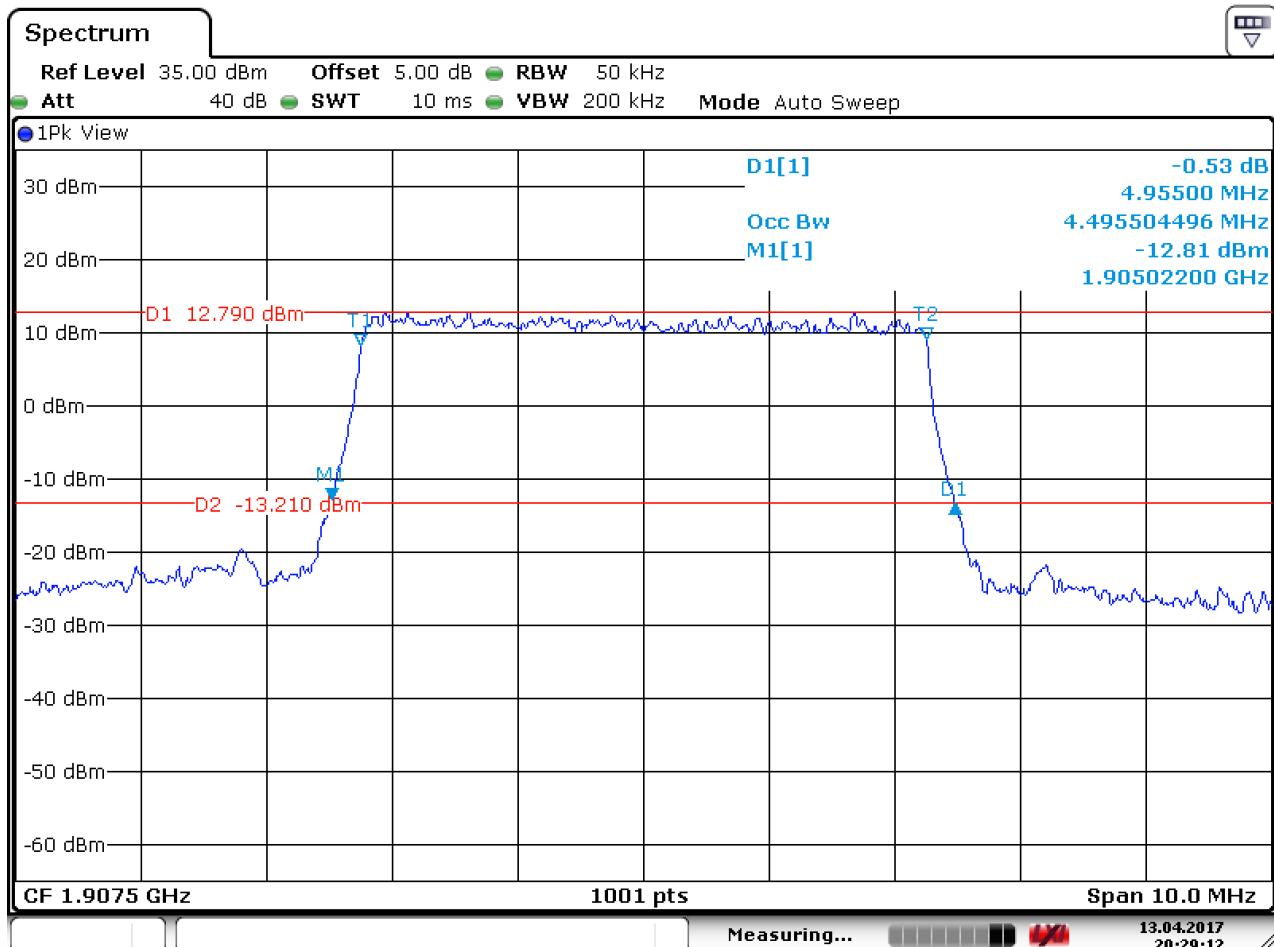
4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH

Date: 13.APR.2017 20:24:32

**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

4.1.1.6.2   Test Channel = MCH

Spectrum				
Ref Level 35.00 dBm	Offset 5.00 dB	● RBW	50 kHz	
● Att	40 dB	● SWT	10 ms ● VBW	200 kHz Mode Auto Sweep

● 1Pk View

D1[1]   -0.70 dB
                        4.90500 MHz
Occ Bw   4.485514486 MHz
M1[1]   -11.06 dBm
                        1.87752200 GHz

D1 14.780 dBm

D2 -11.220 dBm

CF 1.88 GHz   1001 pts   Span 10.0 MHz

Measuring...   13.04.2017
                         20:23:15
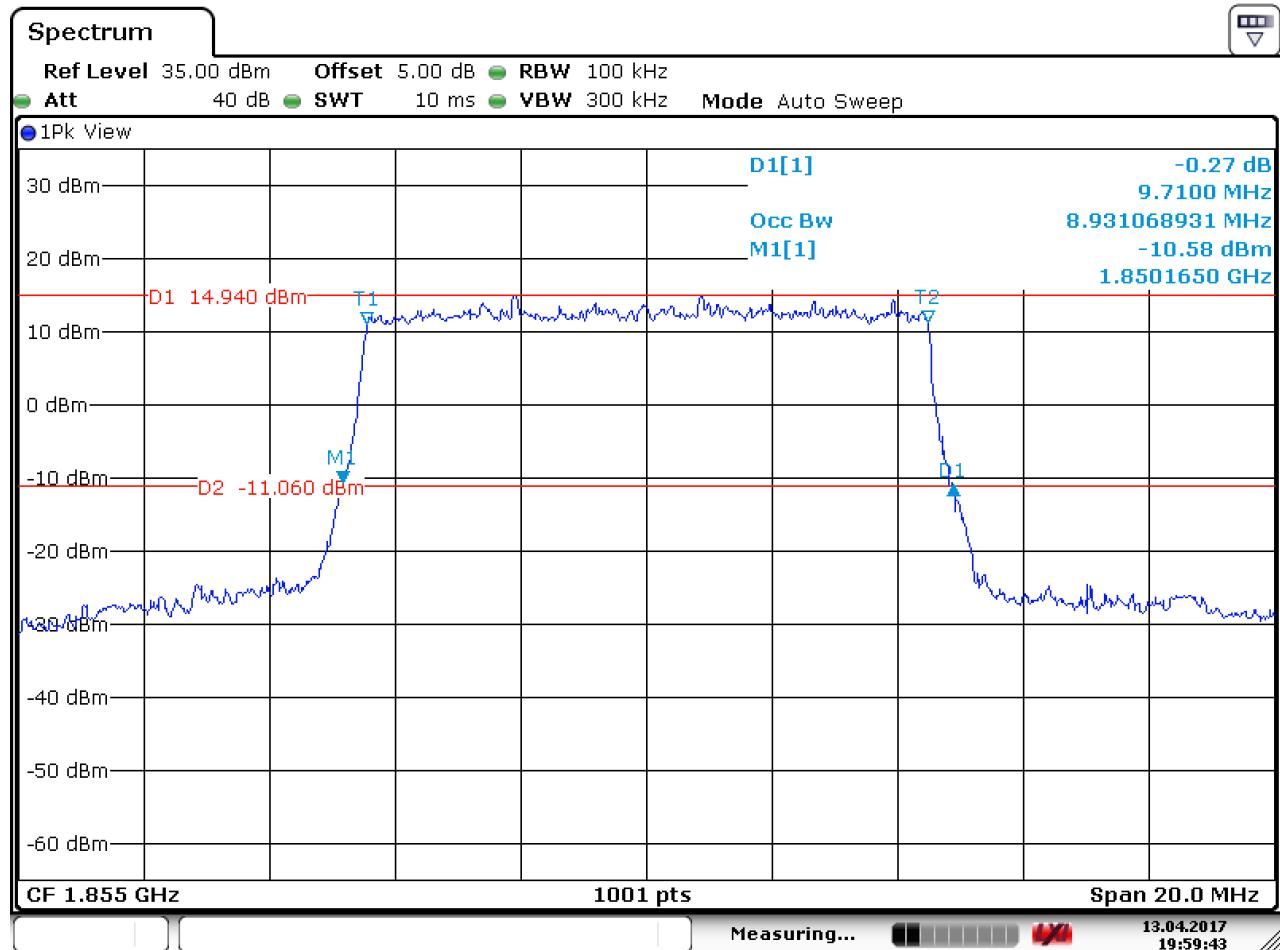
Date: 13.APR.2017 20:23:16

4.1.1.6.3   Test Channel = HCH

Spectrum							
Ref Level 35.00 dBm	**Offset** 5.00 dB	● **RBW** 50 kHz					
● **Att** 40 dB	● **SWT** 10 ms	● **VBW** 200 kHz	**Mode** Auto Sweep				

● 1Pk View

D1[1]   -0.53 dB
                            4.95500 MHz
Occ Bw   4.495504496 MHz
M1[1]   -12.81 dBm
                           1.90502200 GHz

D1 12.790 dBm

D2 -13.210 dBm

CF 1.9075 GHz   1001 pts   Span 10.0 MHz

Measuring...   13.04.2017
                                20:29:12

Date: 13.APR.2017 20:29:13

4.1.1.7   Test Mode = LTE/TM1 10MHz

4.1.1.7.1   Test Channel = LCH
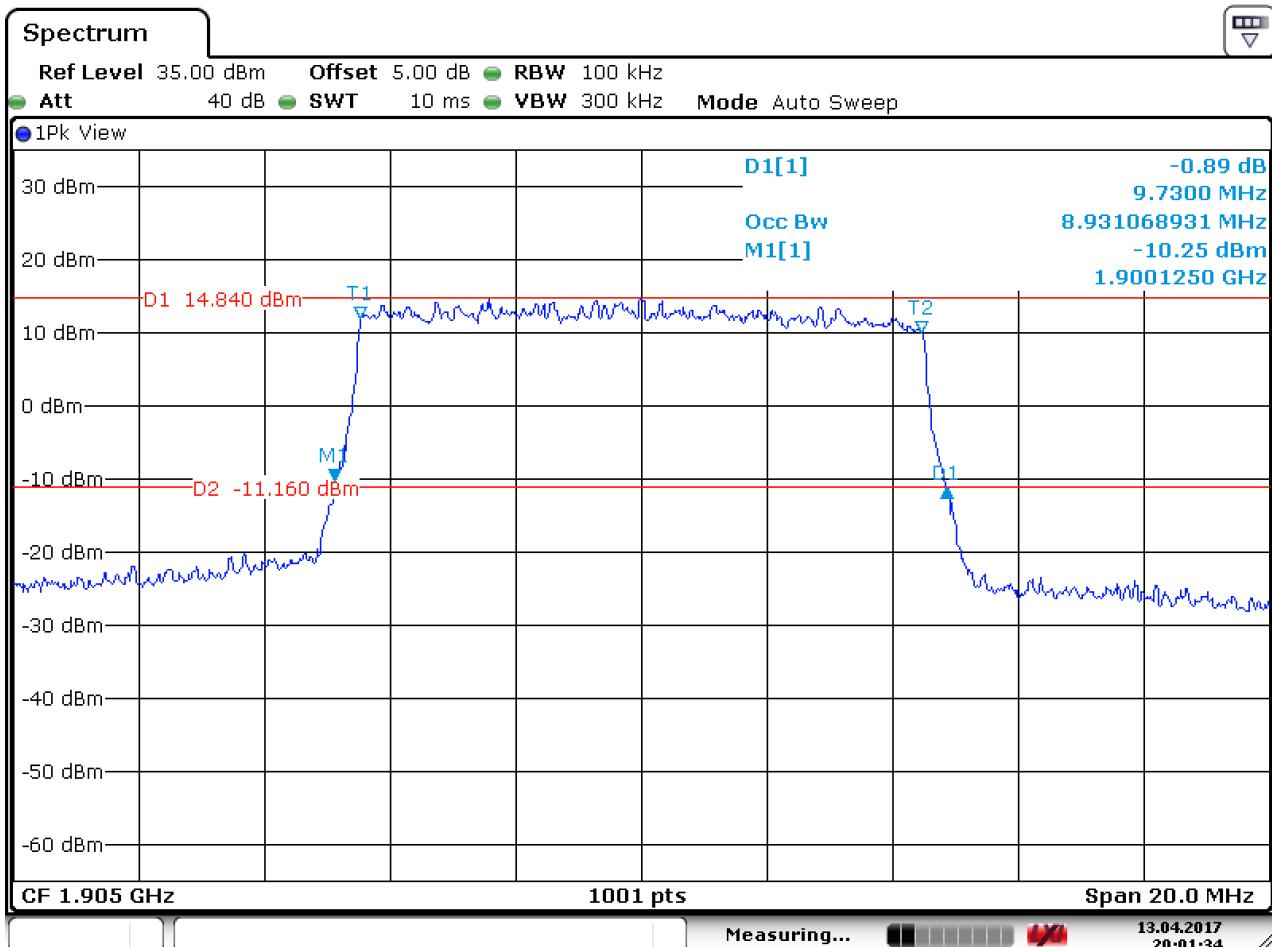
Date: 13.APR.2017 19:59:43

4.1.1.7.2 Test Channel = MCH

Spectrum	
Ref Level 35.00 dBm	Offset 5.00 dB ● RBW 100 kHz
● Att 40 dB ● SWT 10 ms ● VBW 300 kHz	Mode Auto Sweep

● 1Pk View

D1[1] -1.34 dB
9.7900 MHz
Occ Bw 8.971028971 MHz
M1[1] -10.90 dBm
1.8751050 GHz

D1 14.040 dBm
D2 -11.960 dBm

CF 1.88 GHz   1001 pts   Span 20.0 MHz

Measuring...   13.04.2017 19:53:39

Date: 13.APR.2017 19:53:39

4.1.1.7.3   Test Channel = HCH

Spectrum

| Ref Level | 35.00 dBm | Offset | 5.00 dB | ● RBW | 100 kHz |
| Att | 40 dB | ● SWT | 10 ms | ● VBW | 300 kHz | Mode Auto Sweep |

● 1Pk View

D1[1]   -0.89 dB
                         9.7300 MHz
Occ Bw   8.931068931 MHz
M1[1]   -10.25 dBm
                        1.9001250 GHz

D1 14.840 dBm

D2 -11.160 dBm

CF 1.905 GHz   1001 pts   Span 20.0 MHz

Measuring...   13.04.2017
                      20:01:34

Date: 13.APR.2017 20:01:34

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
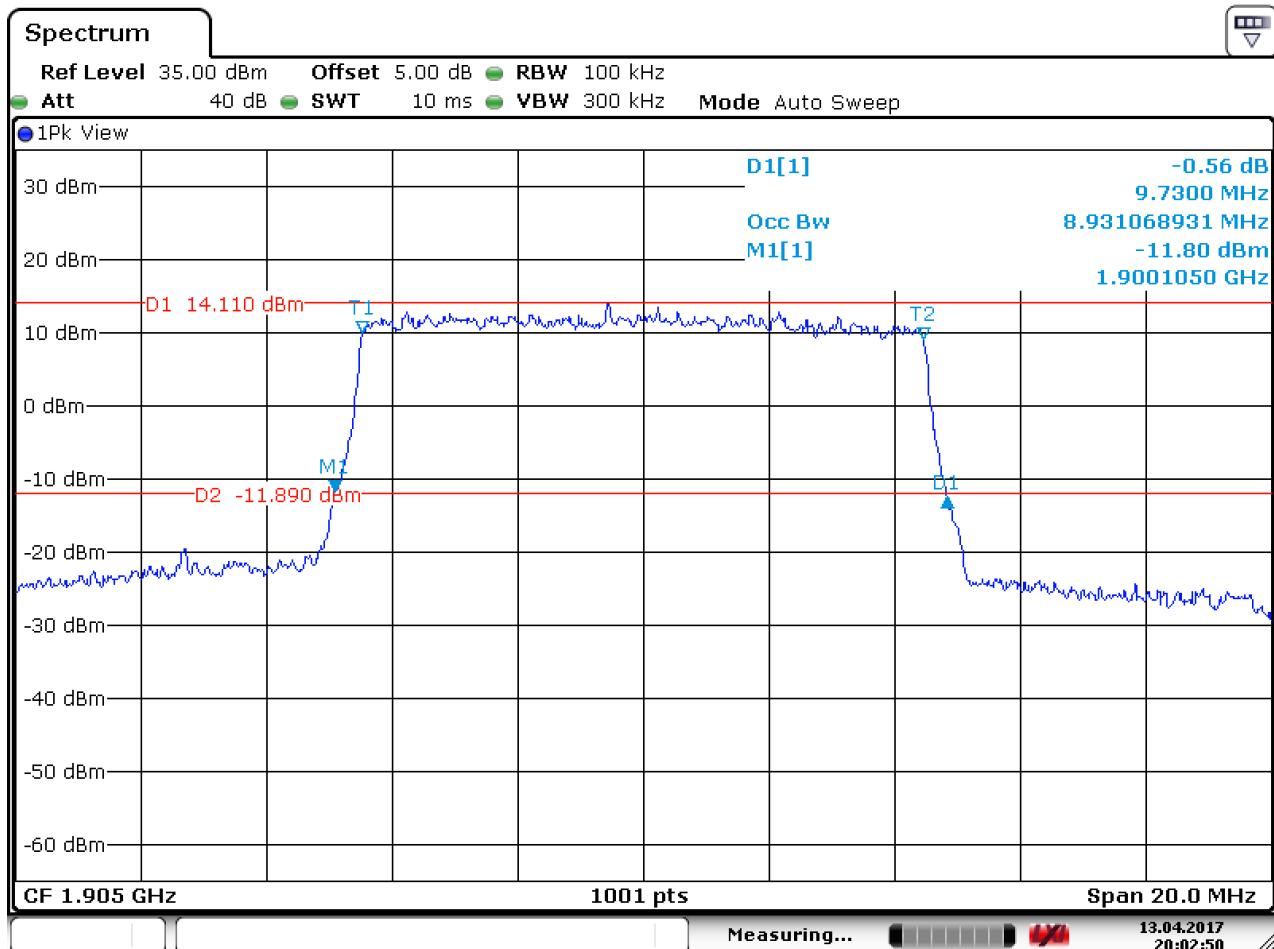
4.1.1.8 Test Mode = LTE/TM2 10MHz

4.1.1.8.1 Test Channel = LCH

Date: 13.APR.2017 19:58:20
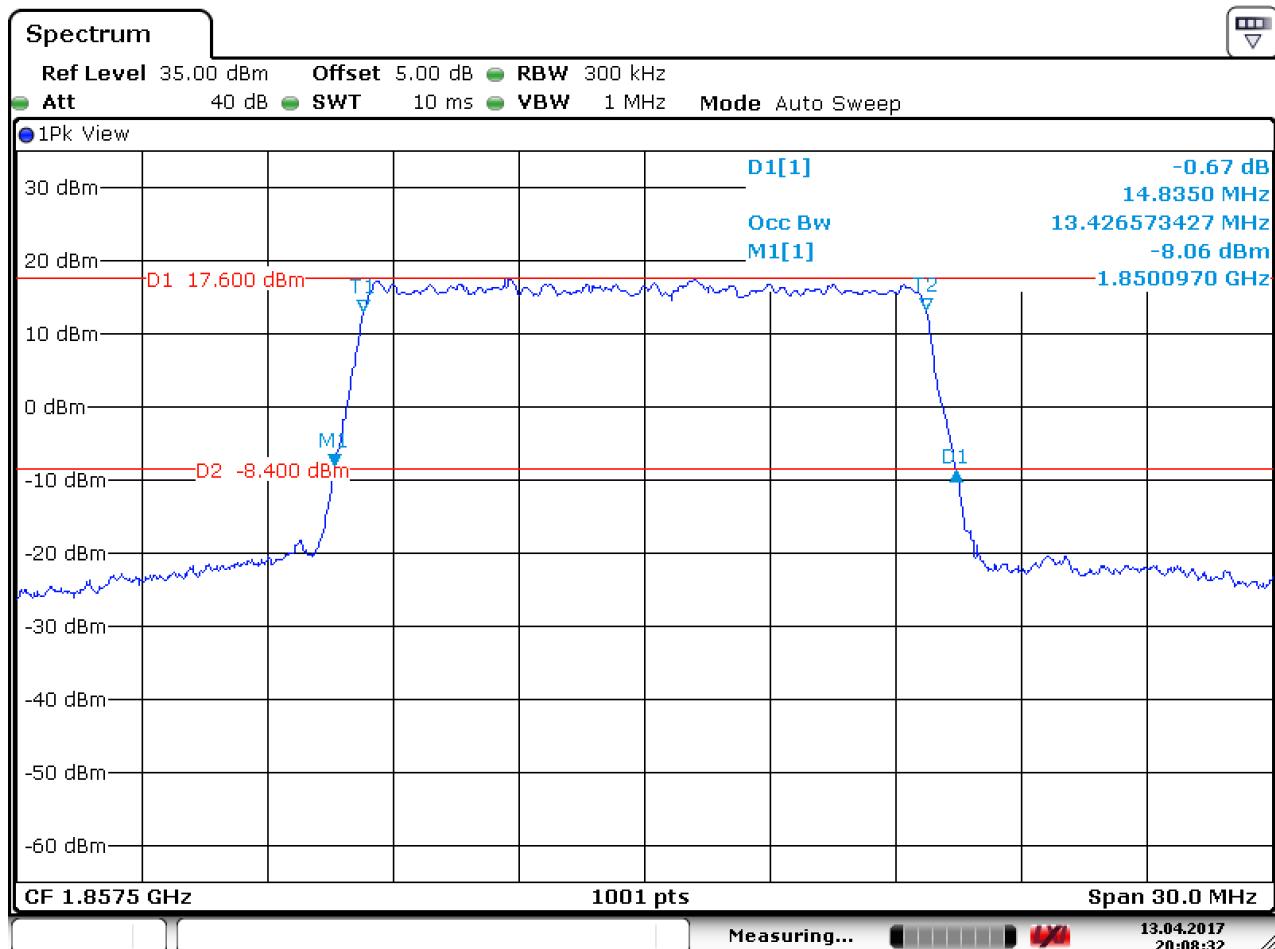
4.1.1.8.2   Test Channel = MCH

Date: 13.APR.2017 19:56:47

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
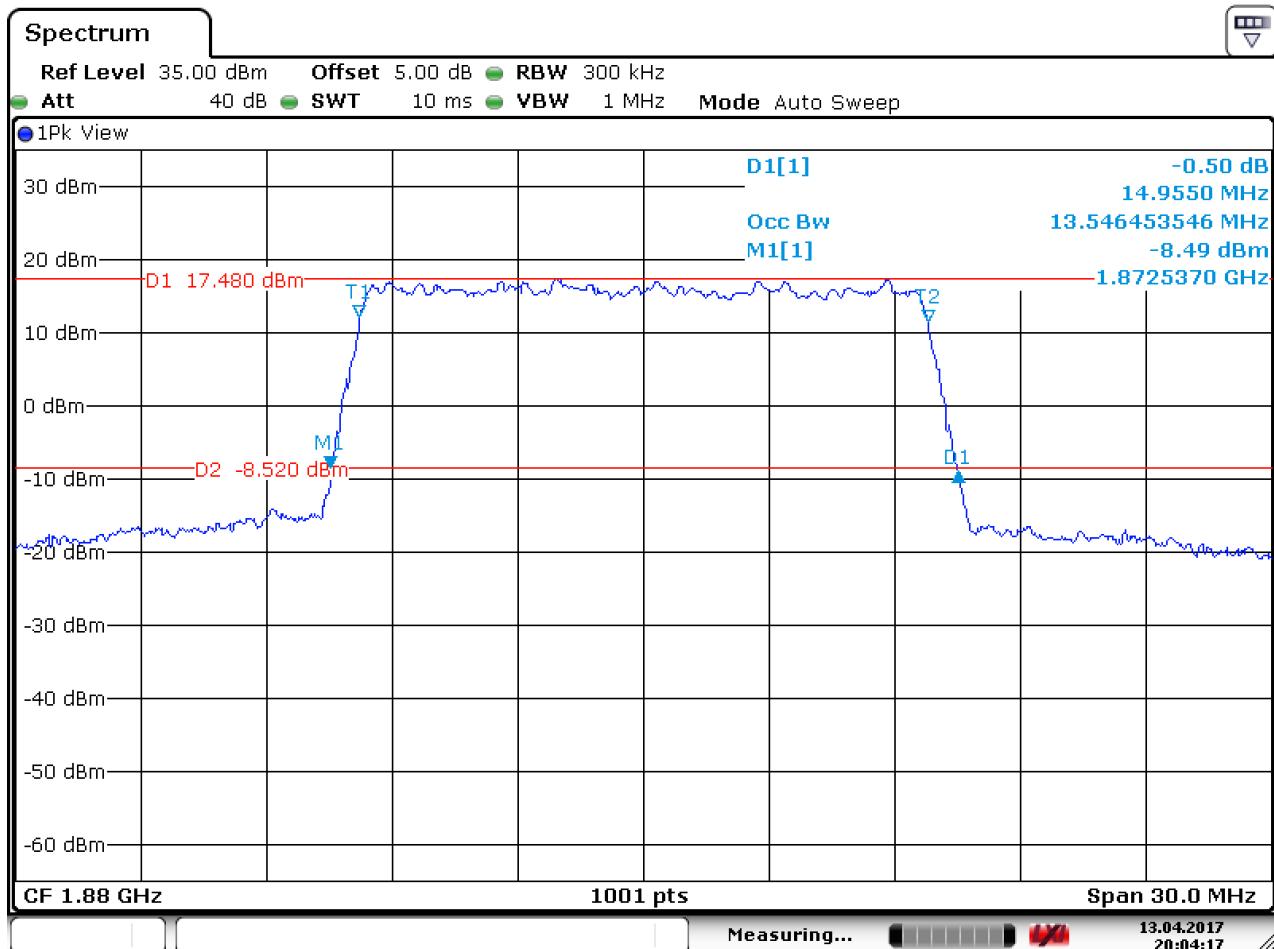
4.1.1.8.3   Test Channel = HCH

Date: 13.APR.2017 20:02:51

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
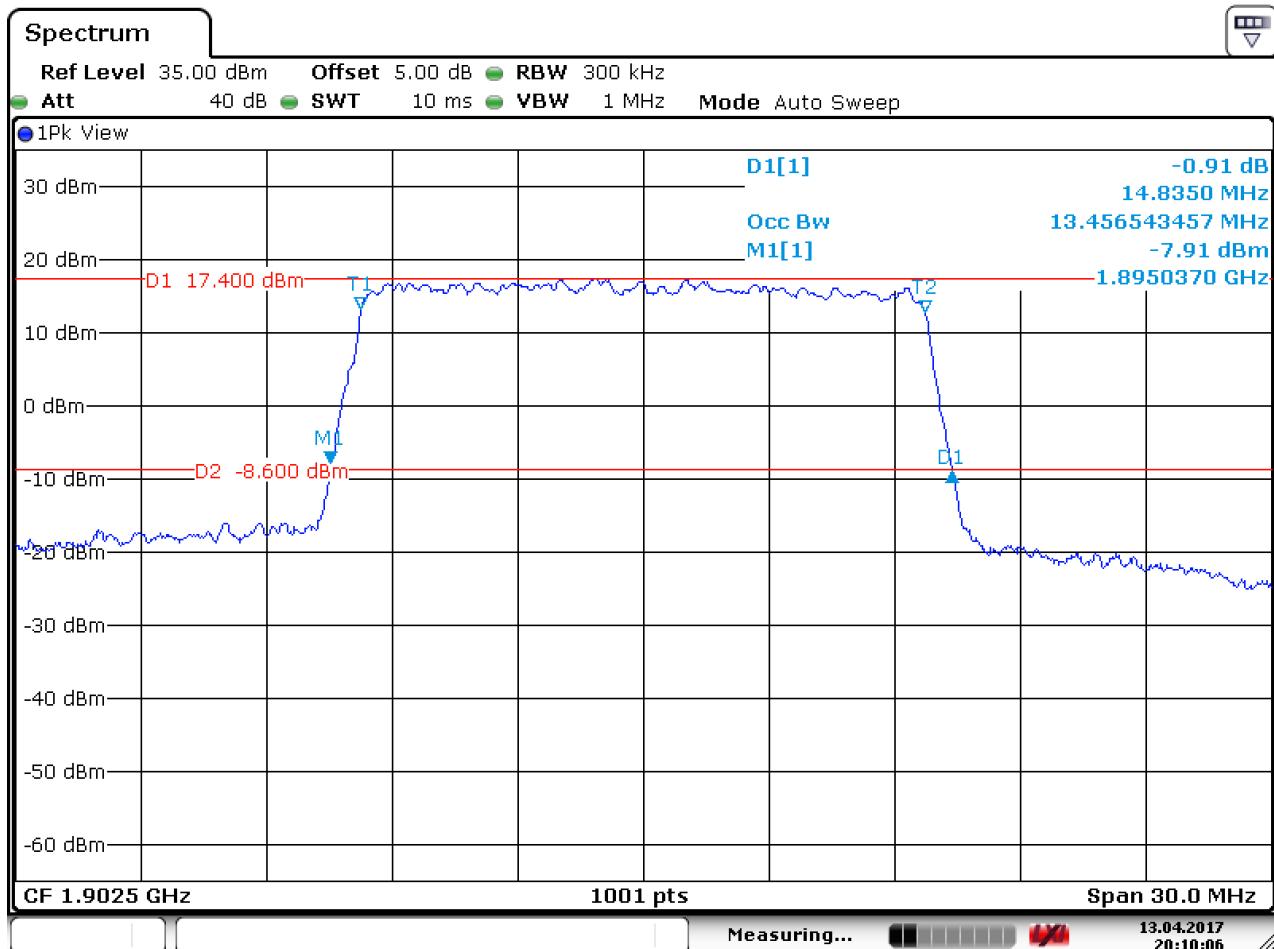
4.1.1.9   Test Mode = LTE/TM1 15MHz

4.1.1.9.1   Test Channel = LCH
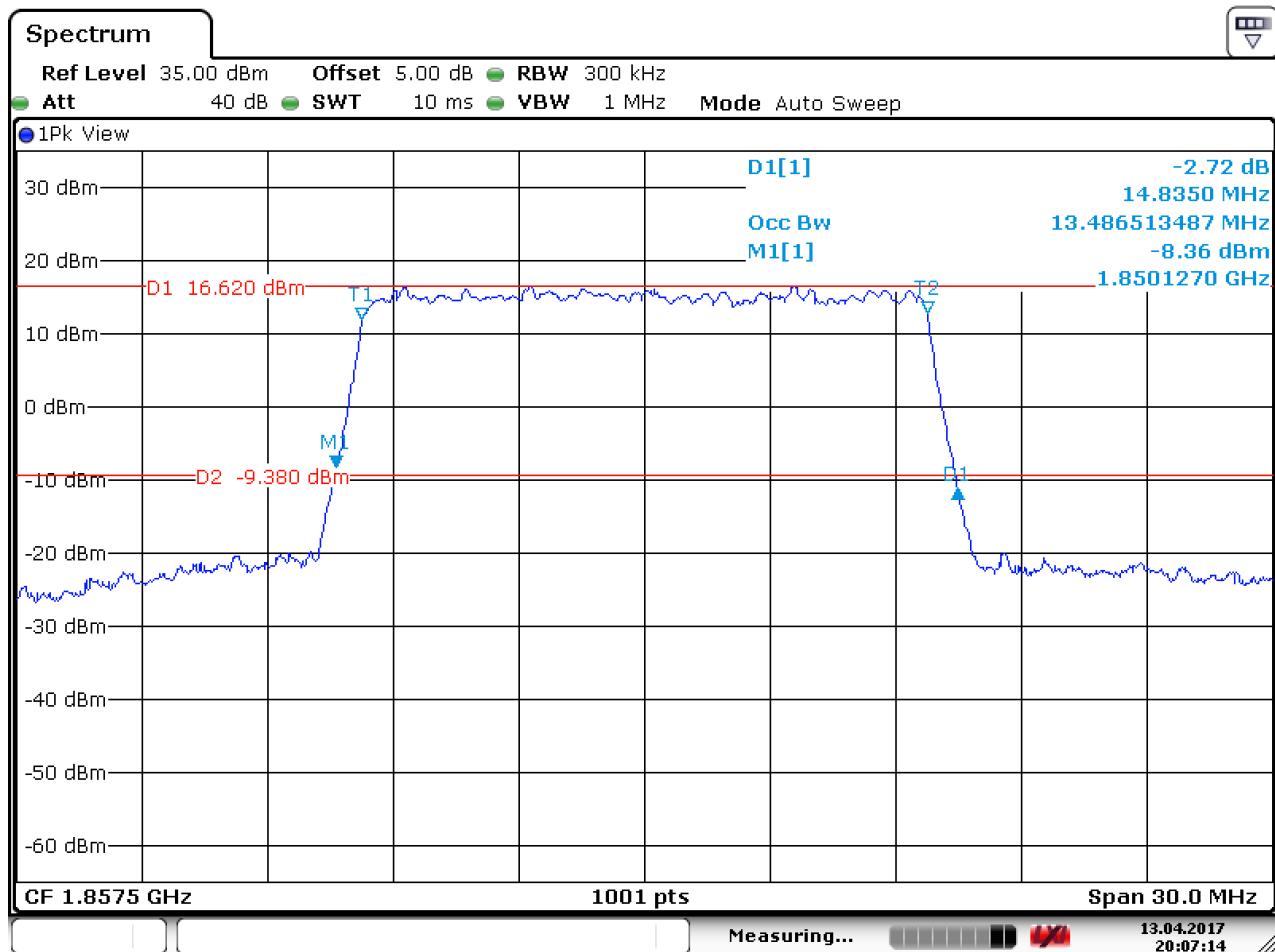
Date: 13.APR.2017 20:08:32

4.1.1.9.2   Test Channel = MCH
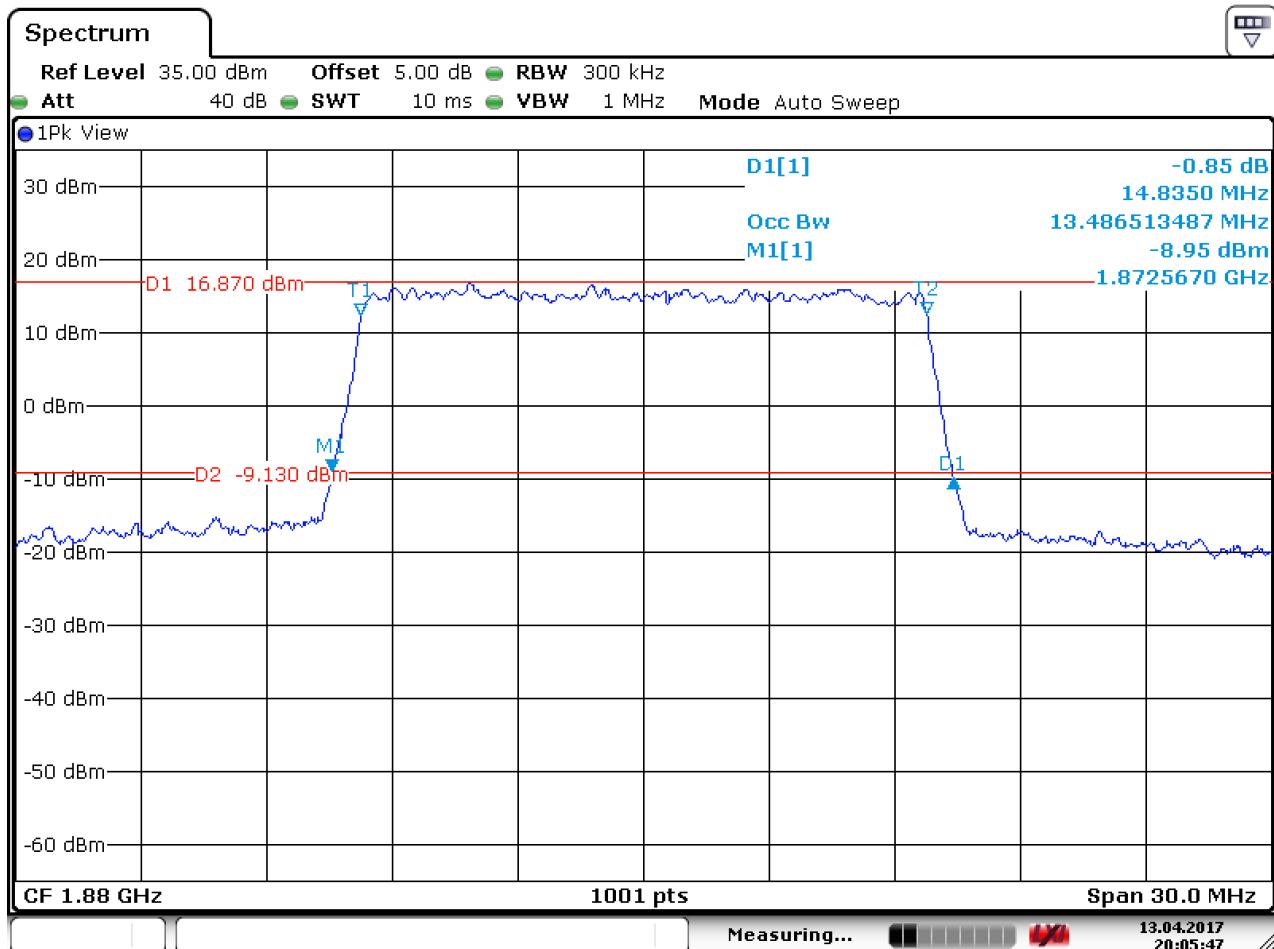
Date: 13.APR.2017 20:04:18

4.1.1.9.3 Test Channel = HCH

Spectrum					▽
Ref Level 35.00 dBm	Offset 5.00 dB	● RBW 300 kHz			
● Att 40 dB	● SWT 10 ms	● VBW 1 MHz	Mode Auto Sweep		

● 1Pk View

```
                                          D1[1]              -0.91 dB
 30 dBm─                                                    14.8350 MHz
                                          Occ Bw        13.456543457 MHz
 20 dBm─                                   M1[1]             -7.91 dBm
         D1  17.400 dBm          T1              T2        1.8950370 GHz
 10 dBm─

  0 dBm─

-10 dBm─      D2 -8.600 dBm         M1                  D1

-20 dBm─

-30 dBm─

-40 dBm─

-50 dBm─

-60 dBm─

 CF 1.9025 GHz              1001 pts               Span 30.0 MHz
```

		Measuring... ■■□□□□□□	13.04.2017 20:10:06
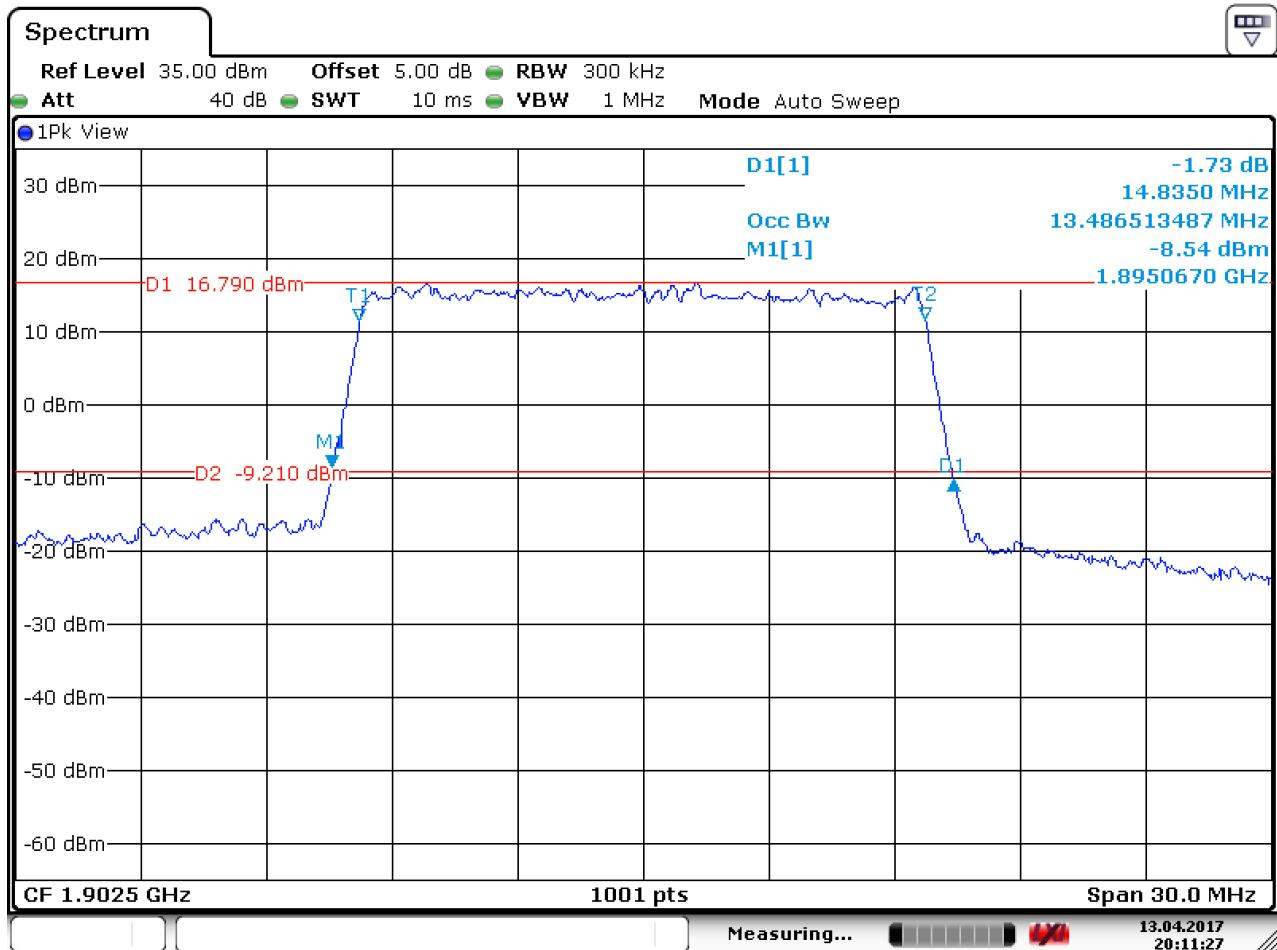
Date: 13.APR.2017 20:10:06

4.1.1.10   Test Mode = LTE/TM2 15MHz

4.1.1.10.1   Test Channel = LCH

Date: 13.APR.2017 20:07:14

**SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch**
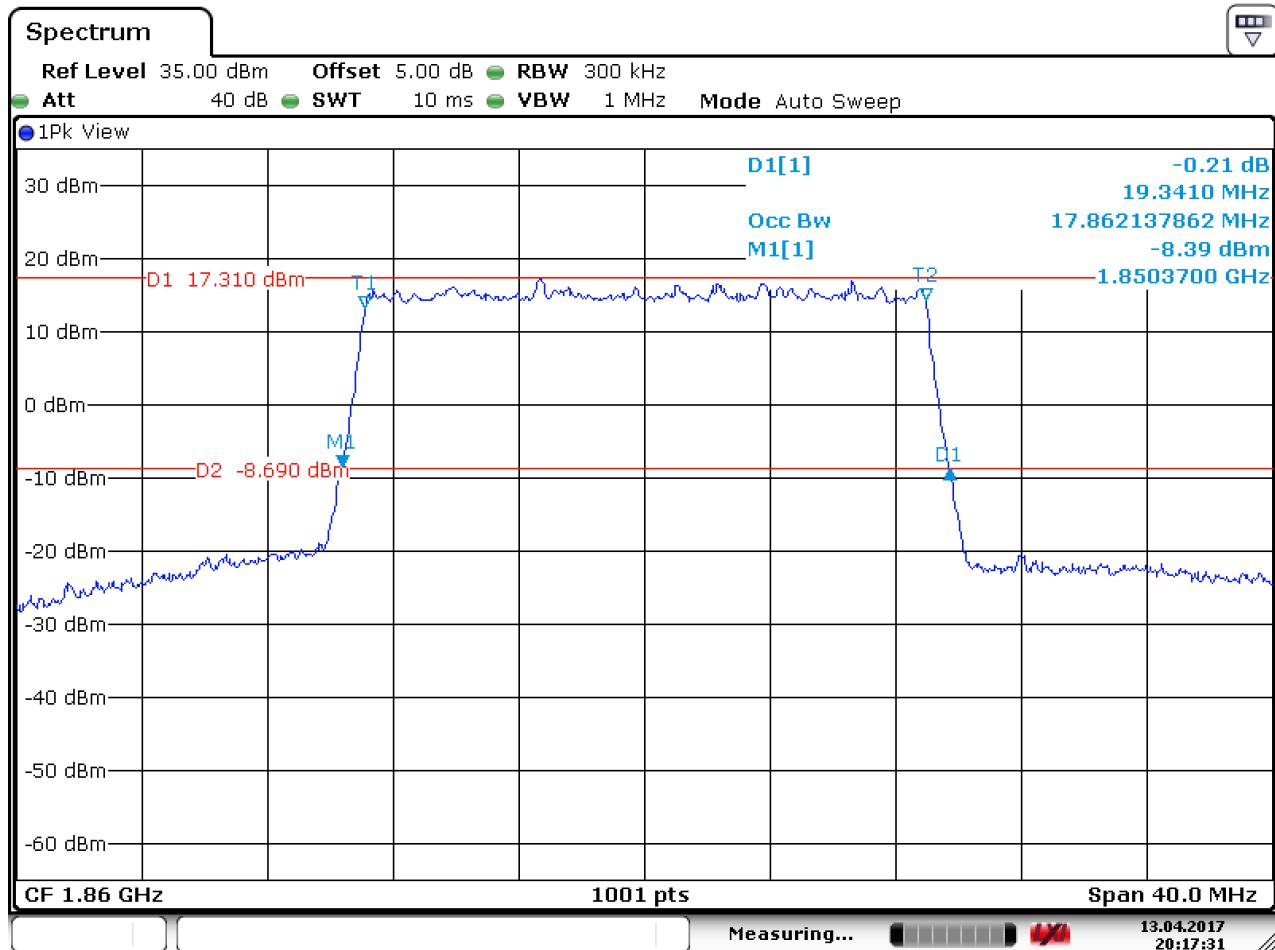
4.1.1.10.2 Test Channel = MCH
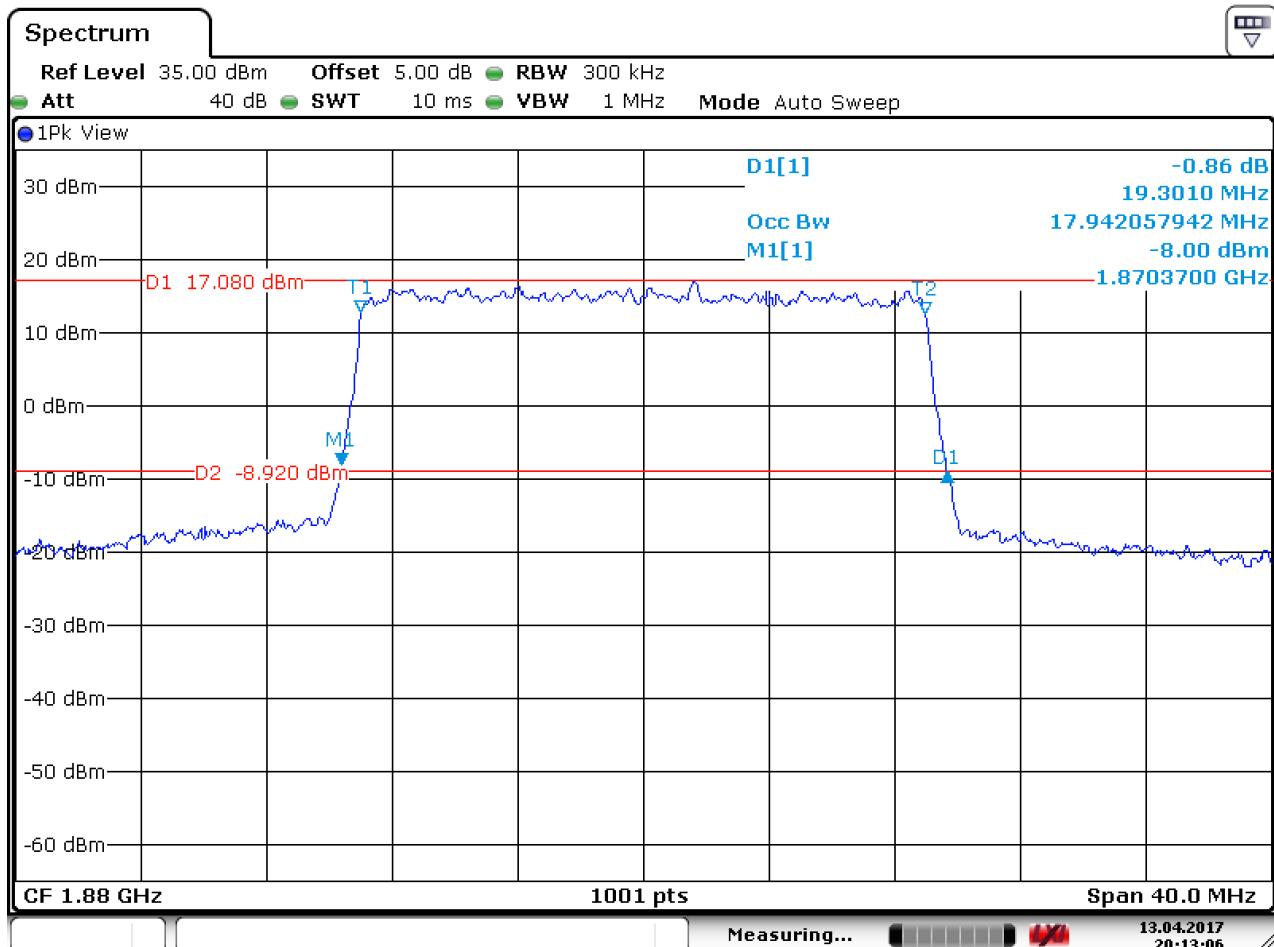
Date: 13.APR.2017 20:05:47

4.1.1.10.3 Test Channel = HCH
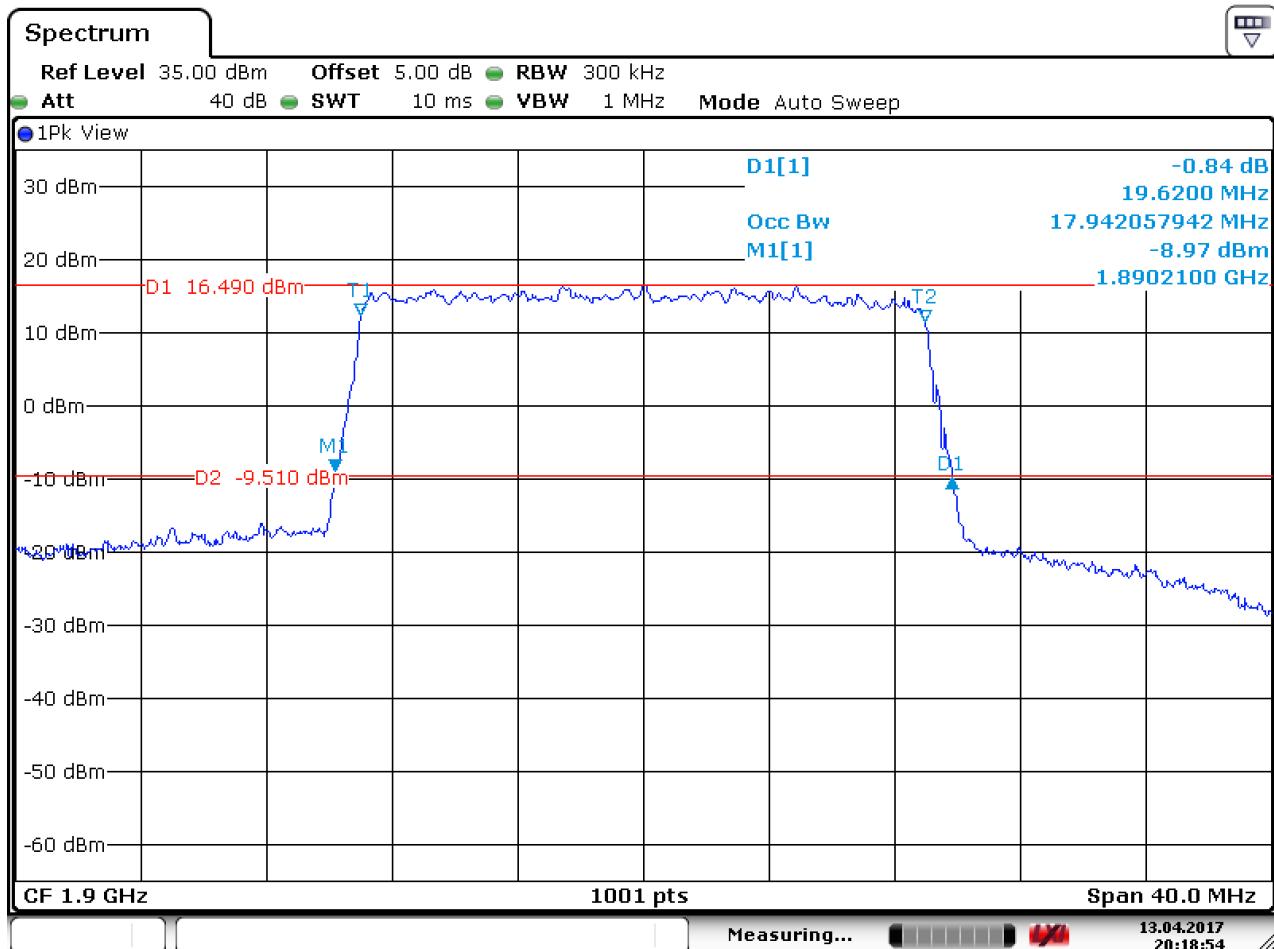
Date: 13.APR.2017 20:11:28

4.1.1.11   Test Mode = LTE/TM1 20MHz

4.1.1.11.1   Test Channel = LCH
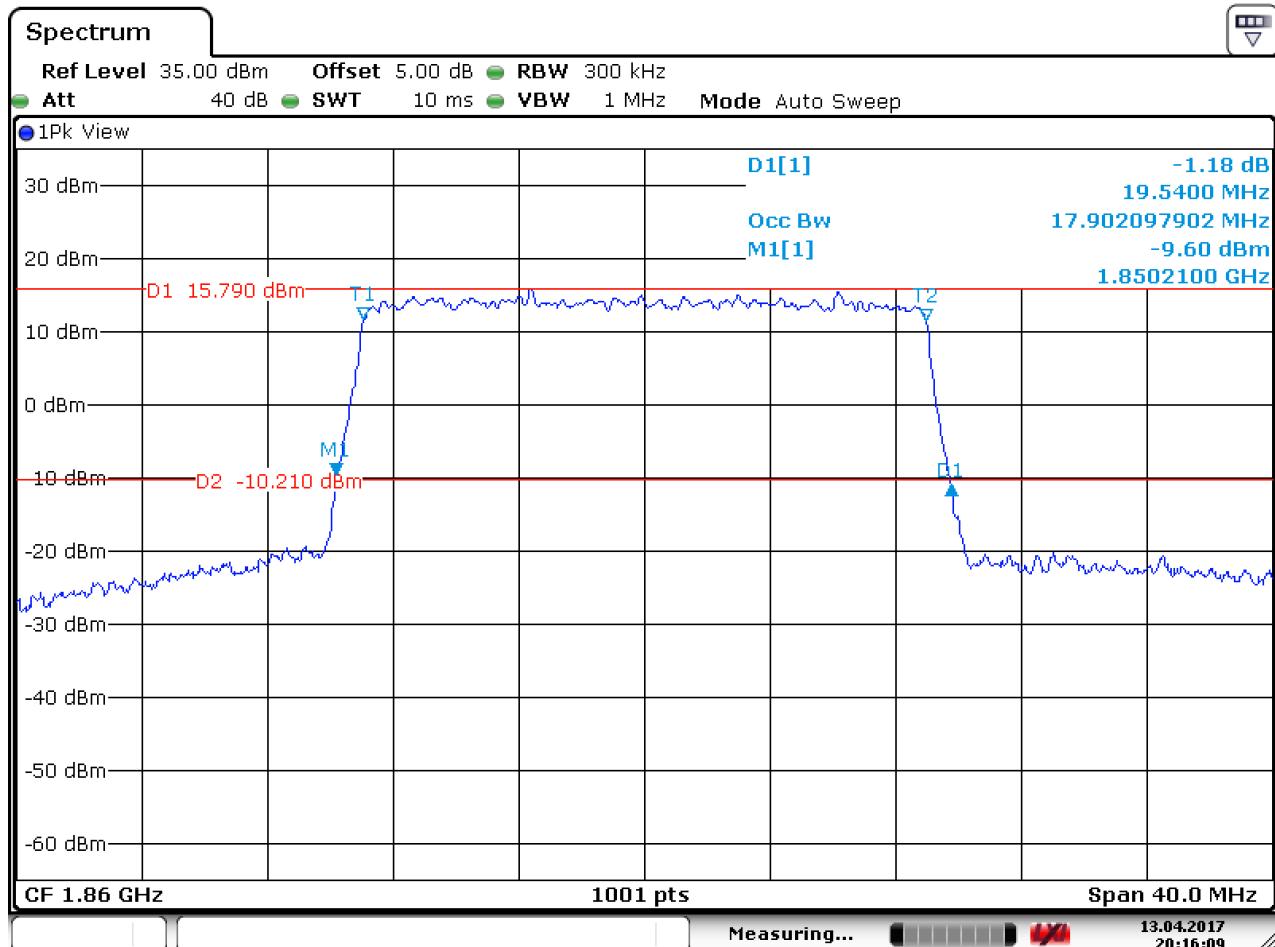

Date: 13.APR.2017 20:17:32

4.1.1.11.2 Test Channel = MCH

Spectrum

Ref Level 35.00 dBm   Offset 5.00 dB   RBW 300 kHz
Att   40 dB   SWT   10 ms   VBW 1 MHz   Mode Auto Sweep

1Pk View

D1[1]	-0.86 dB
	19.3010 MHz
Occ Bw	17.942057942 MHz
M1[1]	-8.00 dBm
	1.8703700 GHz

D1 17.080 dBm

D2 -8.920 dBm

CF 1.88 GHz   1001 pts   Span 40.0 MHz

Measuring...   13.04.2017
                                      20:13:06
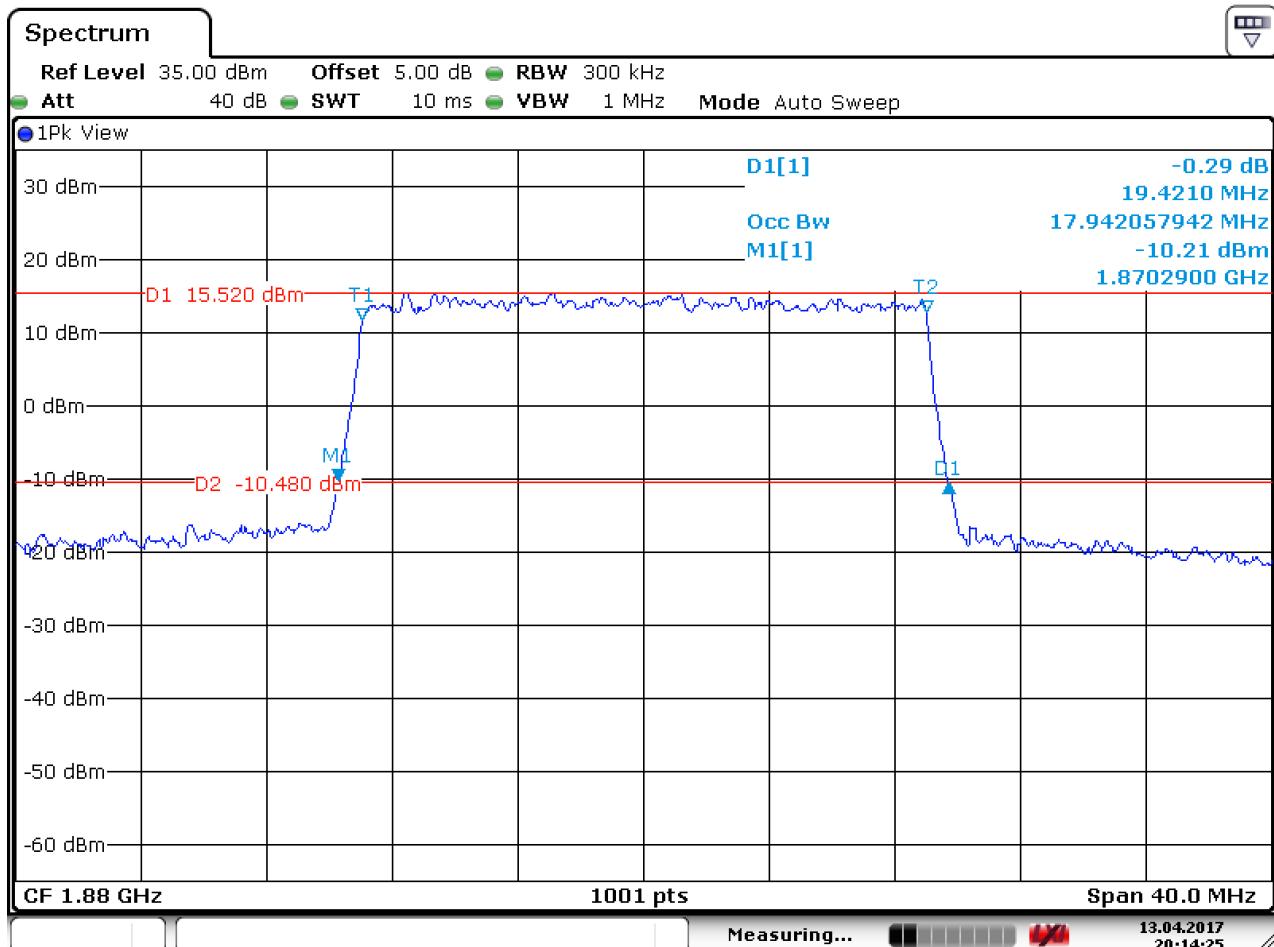
Date: 13.APR.2017 20:13:06

4.1.1.11.3 Test Channel = HCH

Spectrum					
Ref Level	35.00 dBm	Offset	5.00 dB	RBW	300 kHz
Att	40 dB	SWT	10 ms	VBW	1 MHz

Mode Auto Sweep

1Pk View

D1[1]	−0.84 dB
	19.6200 MHz
Occ Bw	17.942057942 MHz
M1[1]	−8.97 dBm
	1.8902100 GHz

D1 16.490 dBm

D2 −9.510 dBm

CF 1.9 GHz   1001 pts   Span 40.0 MHz

Measuring...   13.04.2017 20:18:54

Date: 13.APR.2017 20:18:55

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
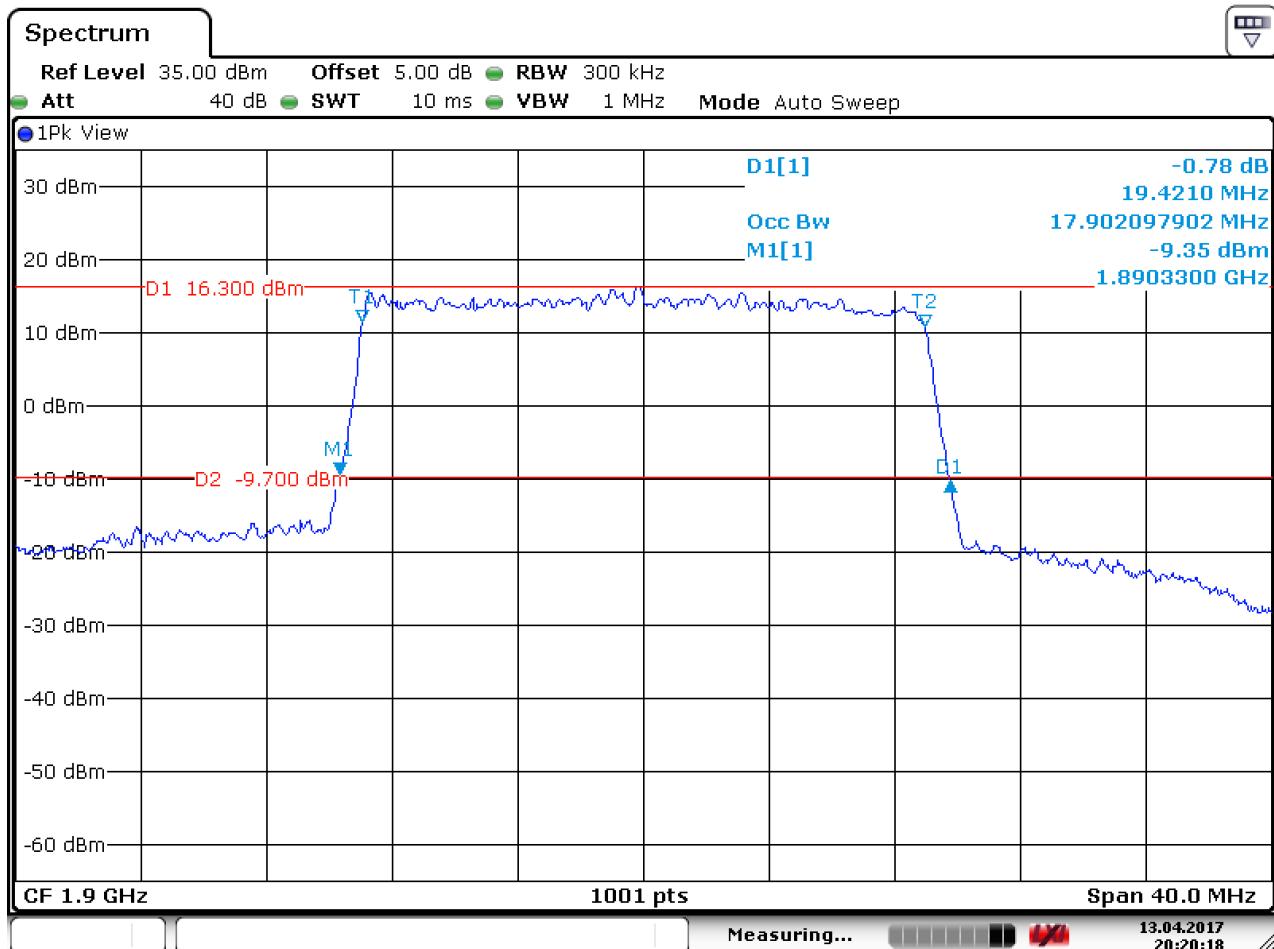
4.1.1.12 Test Mode = LTE/TM2 20MHz

4.1.1.12.1 Test Channel = LCH

Date: 13.APR.2017 20:16:09

**4.1.1.12.2 Test Channel = MCH**

Date: 13.APR.2017 20:14:26

**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

4.1.1.12.3 Test Channel = HCH

Spectrum		
Ref Level 35.00 dBm	Offset 5.00 dB ● RBW 300 kHz	
● Att 40 dB ● SWT	10 ms ● VBW 1 MHz	Mode Auto Sweep

●1Pk View

D1[1]   -0.78 dB
                19.4210 MHz
Occ Bw   17.902097902 MHz
M1[1]   -9.35 dBm
                1.8903300 GHz

D1 16.300 dBm

D2 -9.700 dBm

CF 1.9 GHz   1001 pts   Span 40.0 MHz

Measuring...   13.04.2017 20:20:18

Date: 13.APR.2017 20:20:18

5　Band Edges Compliance

Part I –
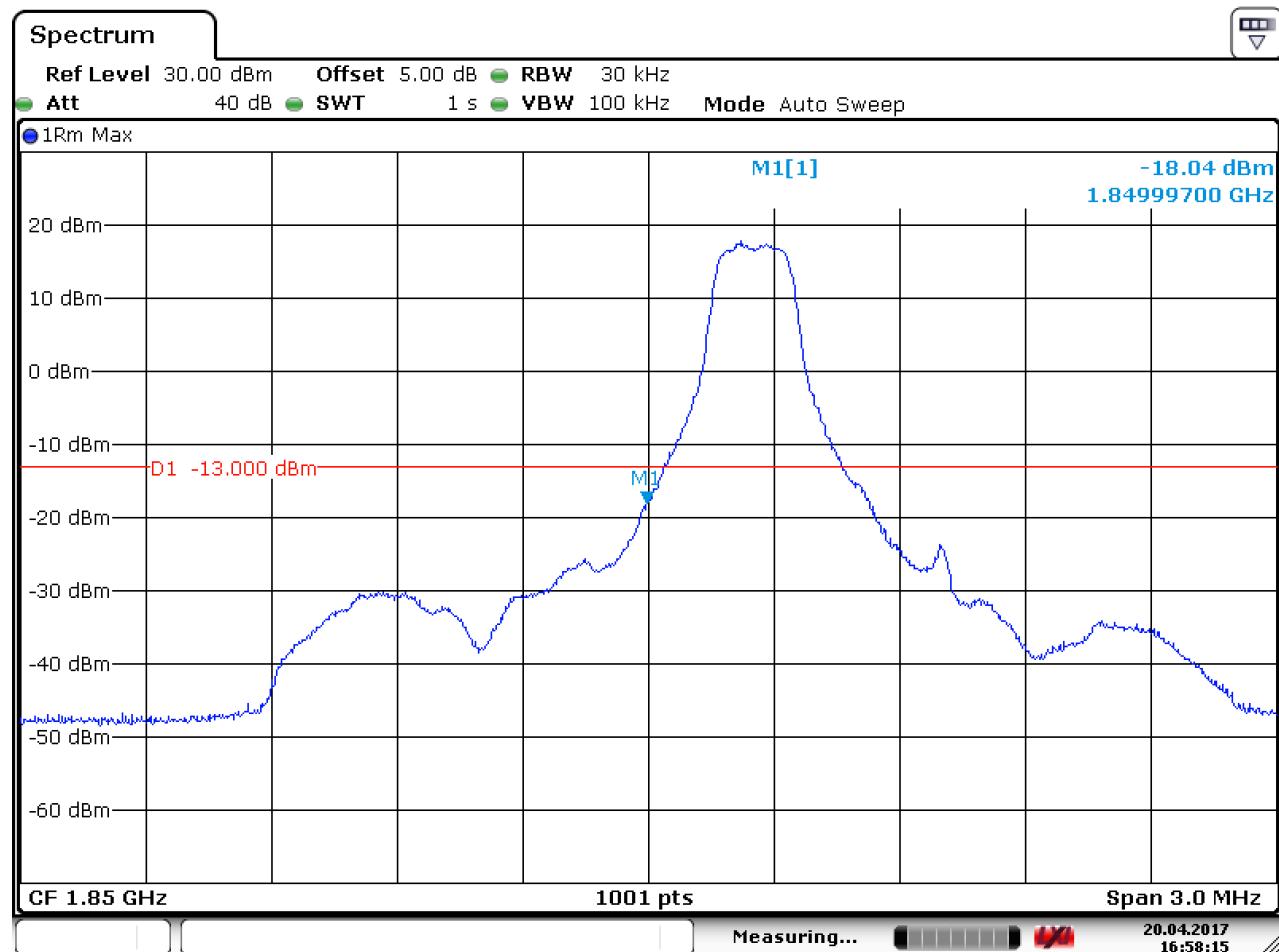
5.1　For LTE

5.1.1 Test Band = LTE band2

5.1.1.1　Test Mode = LTE/TM1　1.4MHz
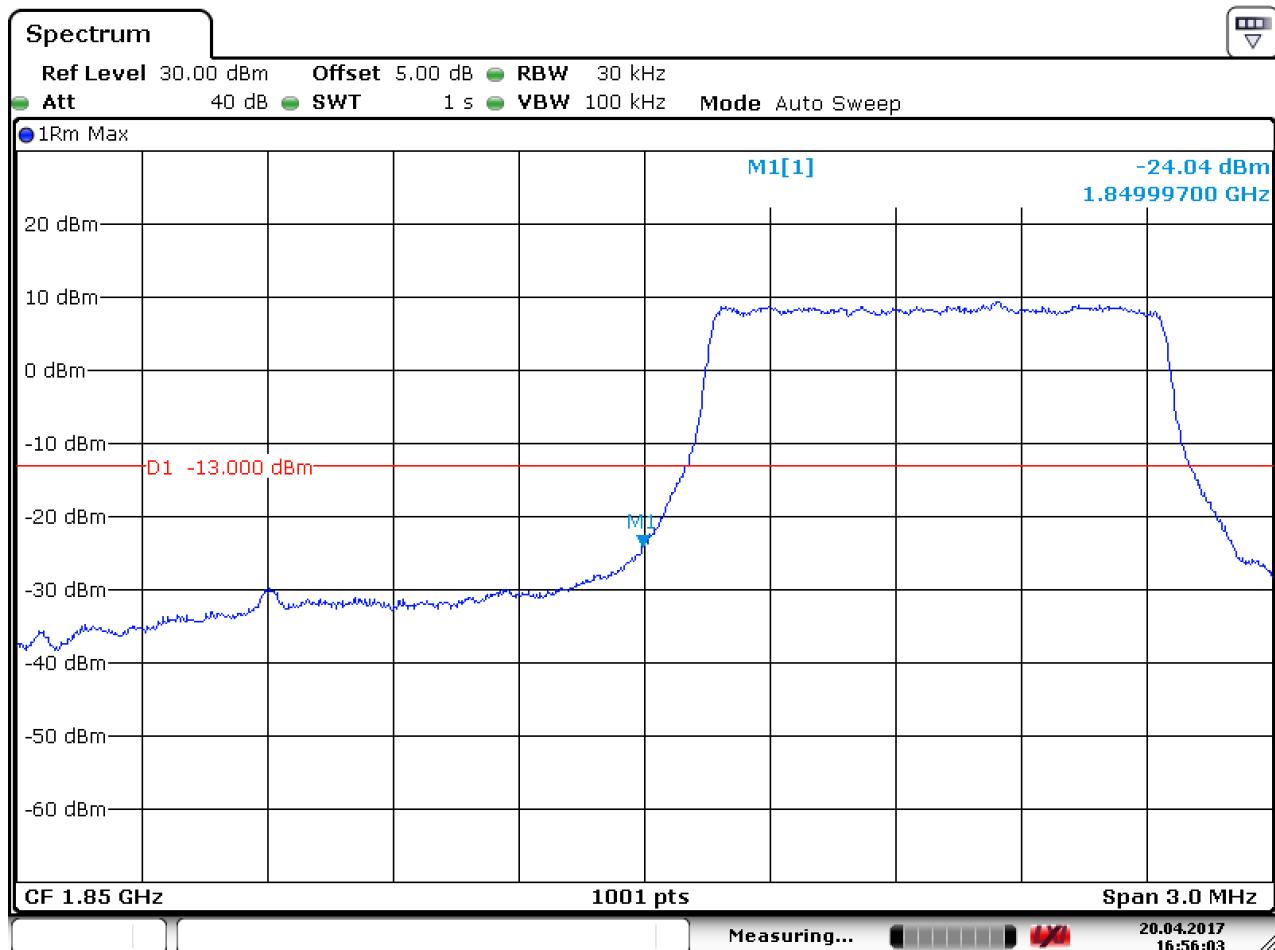
5.1.1.1.1　Test Channel = LCH

5.1.1.1.1.1 Test RB=1RB

Date: 20.APR.2017 16:58:16

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5.1.1.1.1.2 Test RB=6RB

Spectrum

| Ref Level 30.00 dBm | Offset 5.00 dB | RBW 30 kHz |
| Att 40 dB | SWT 1 s | VBW 100 kHz | Mode Auto Sweep |

1Rm Max

M1[1]   -24.04 dBm
1.84999700 GHz

D1 -13.000 dBm

CF 1.85 GHz   1001 pts   Span 3.0 MHz

Measuring...   20.04.2017 16:56:03
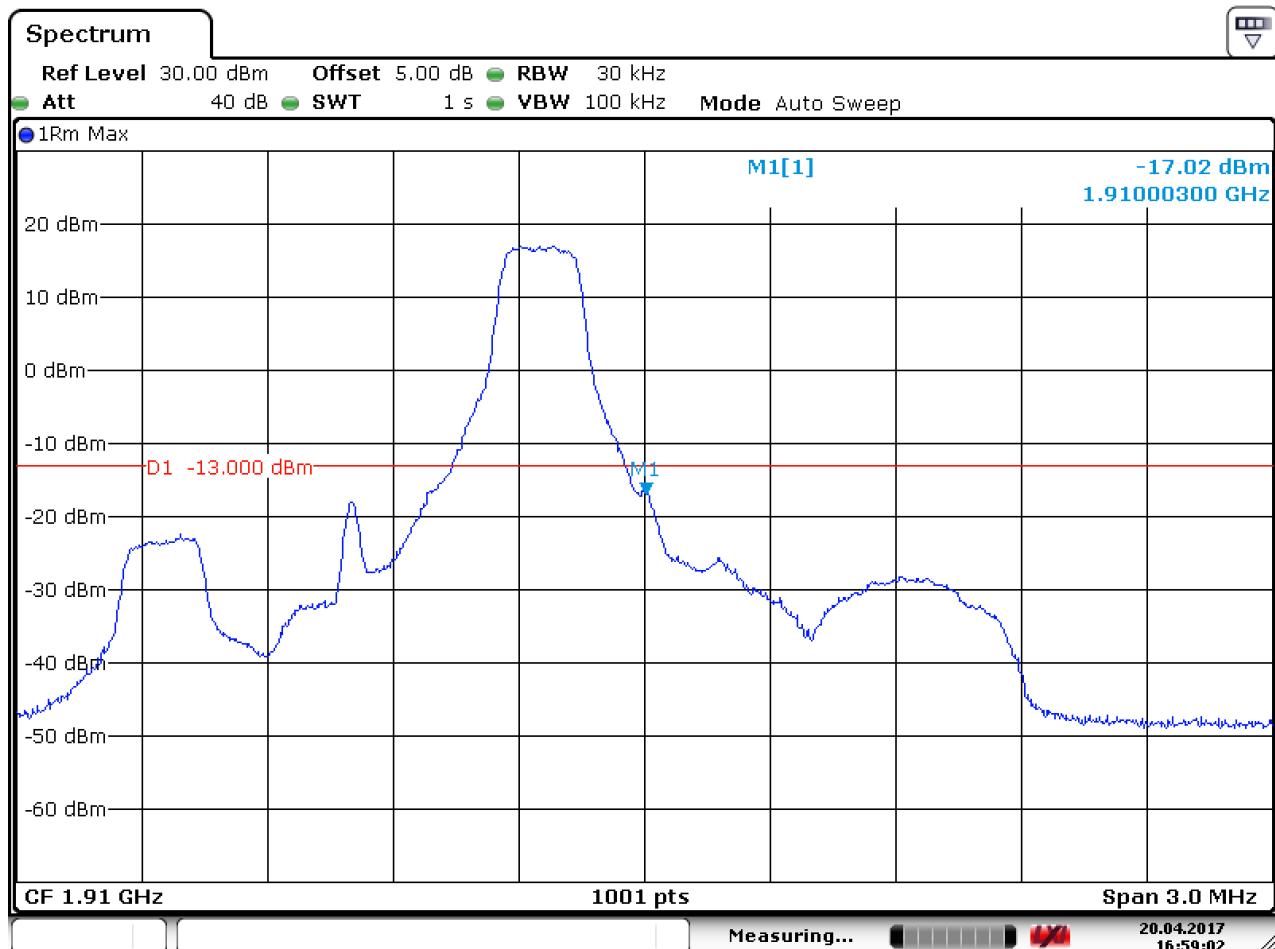
Date: 20.APR.2017 16:56:03
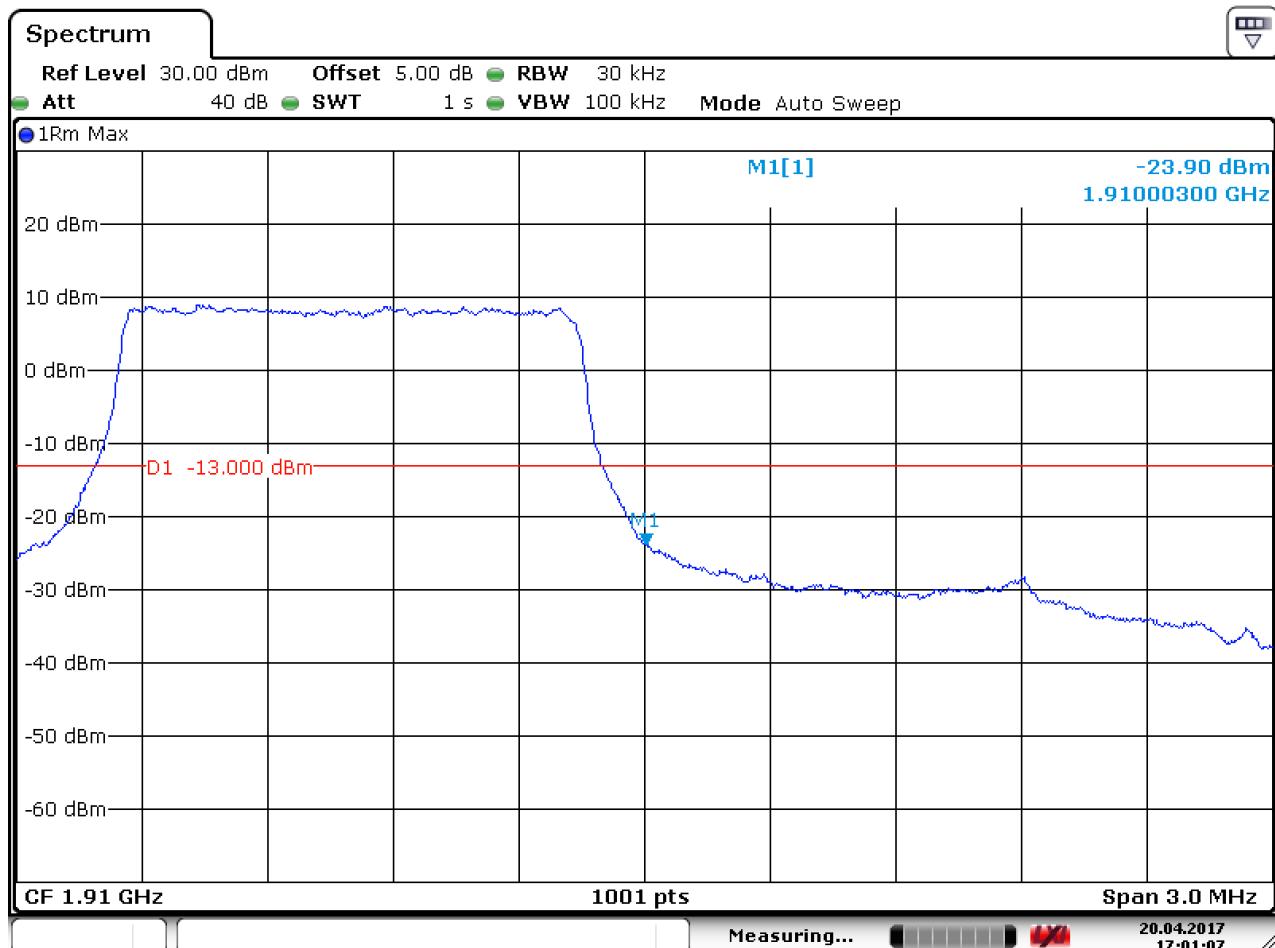
5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB

Spectrum

| Ref Level 30.00 dBm | Offset 5.00 dB | RBW 30 kHz |
| Att 40 dB | SWT 1 s | VBW 100 kHz | Mode Auto Sweep |

1Rm Max

M1[1]   -17.02 dBm
                         1.91000300 GHz

D1 -13.000 dBm

M1

CF 1.91 GHz   1001 pts   Span 3.0 MHz

Measuring...   20.04.2017 16:59:02

Date: 20.APR.2017 16:59:02

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

5.1.1.1.2.2 Test RB=6RB

Spectrum						
Ref Level 30.00 dBm		Offset 5.00 dB	● RBW	30 kHz		
● Att	40 dB	● SWT	1 s	● VBW	100 kHz	Mode Auto Sweep

● 1Rm Max

M1[1] -23.90 dBm
1.91000300 GHz

D1 -13.000 dBm

∇1

CF 1.91 GHz   1001 pts   Span 3.0 MHz

Measuring...   20.04.2017 17:01:07

Date: 20.APR.2017 17:01:07

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.APR.2017 16:57:34

5.1.1.2.1.2 Test RB=6RB

Date: 20.APR.2017 16:56:36

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
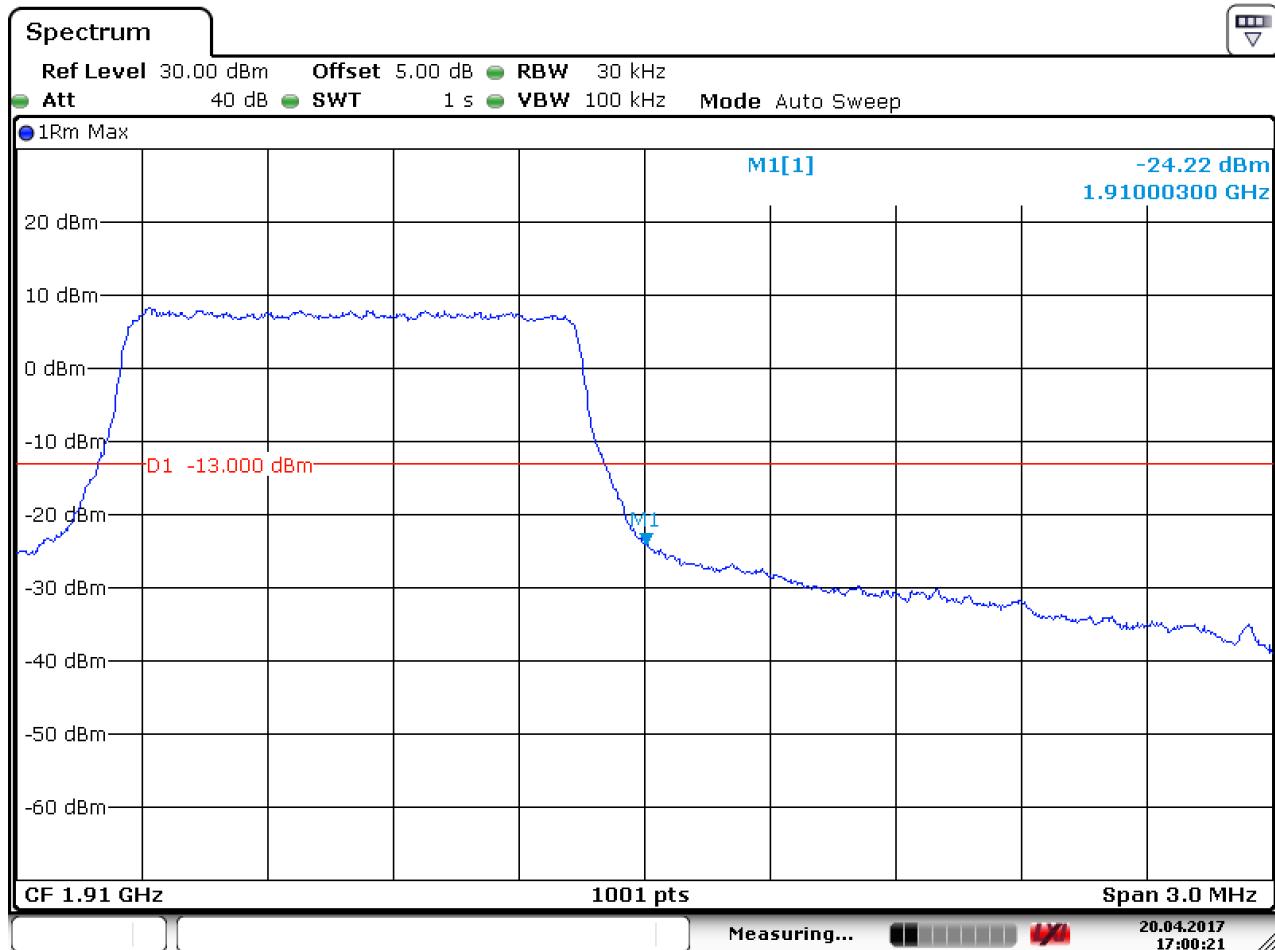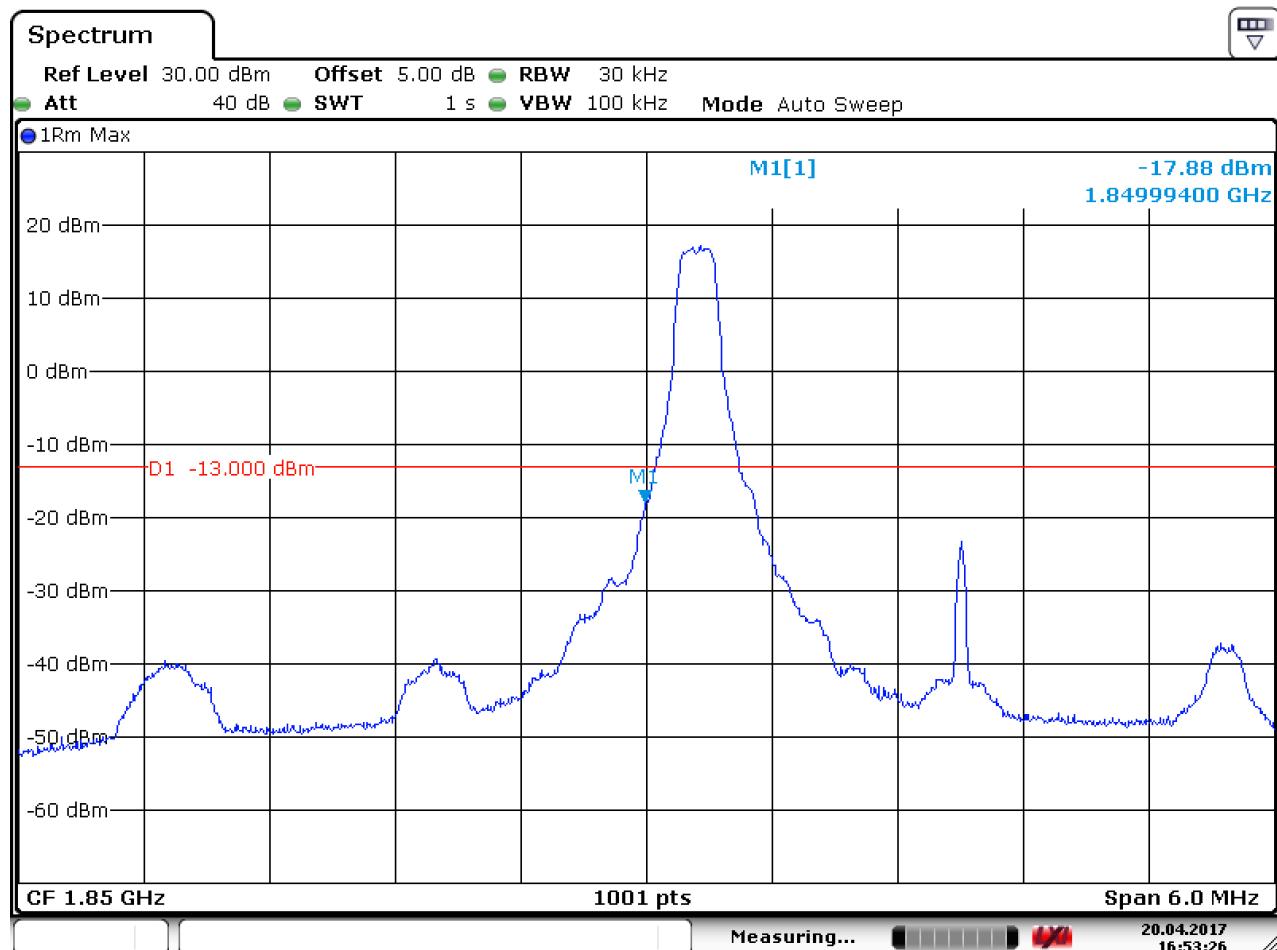
5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB

Date: 20.APR.2017 16:59:43

5.1.1.2.2.2 Test RB=6RB
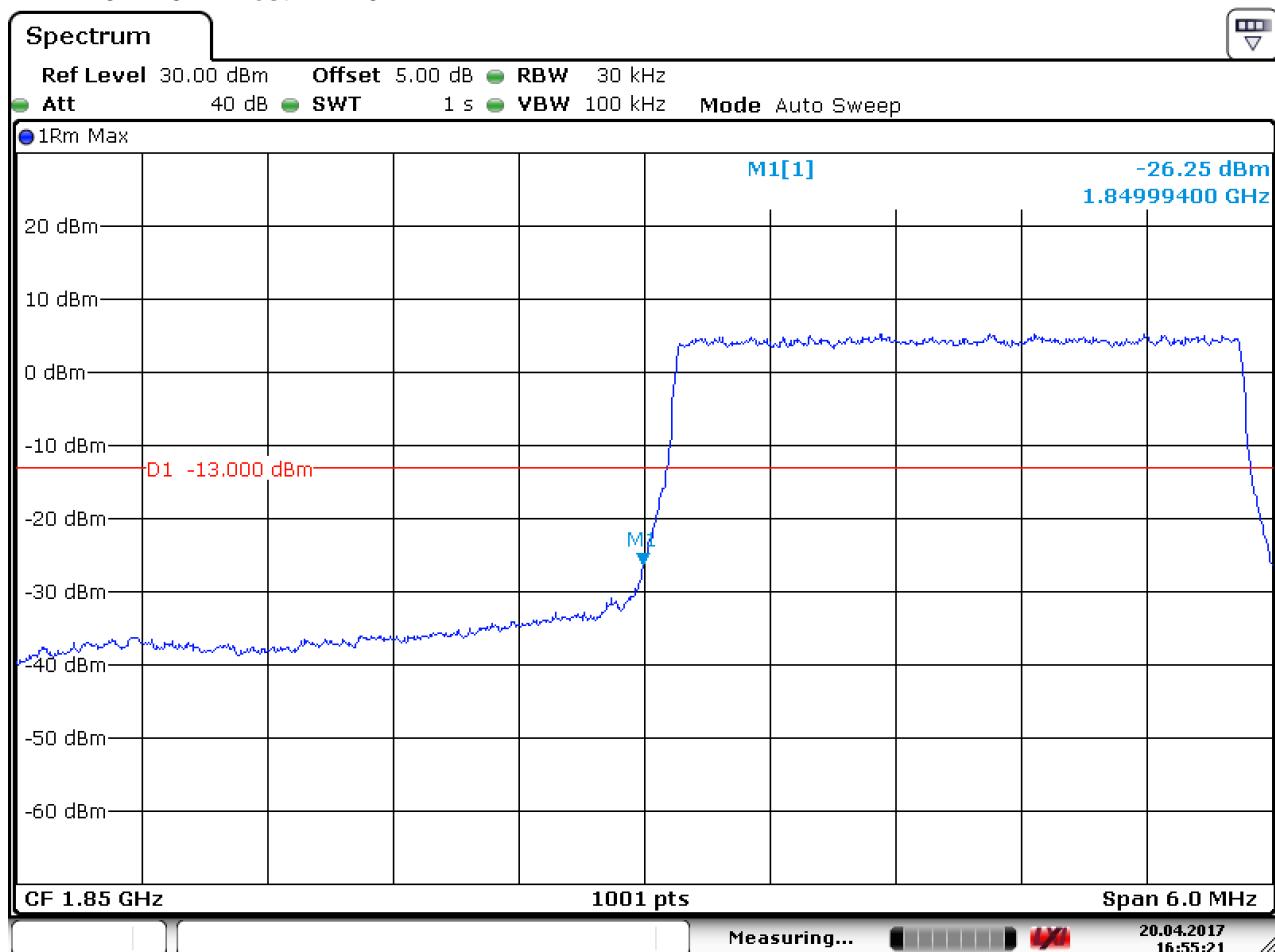
Date: 20.APR.2017 17:00:22
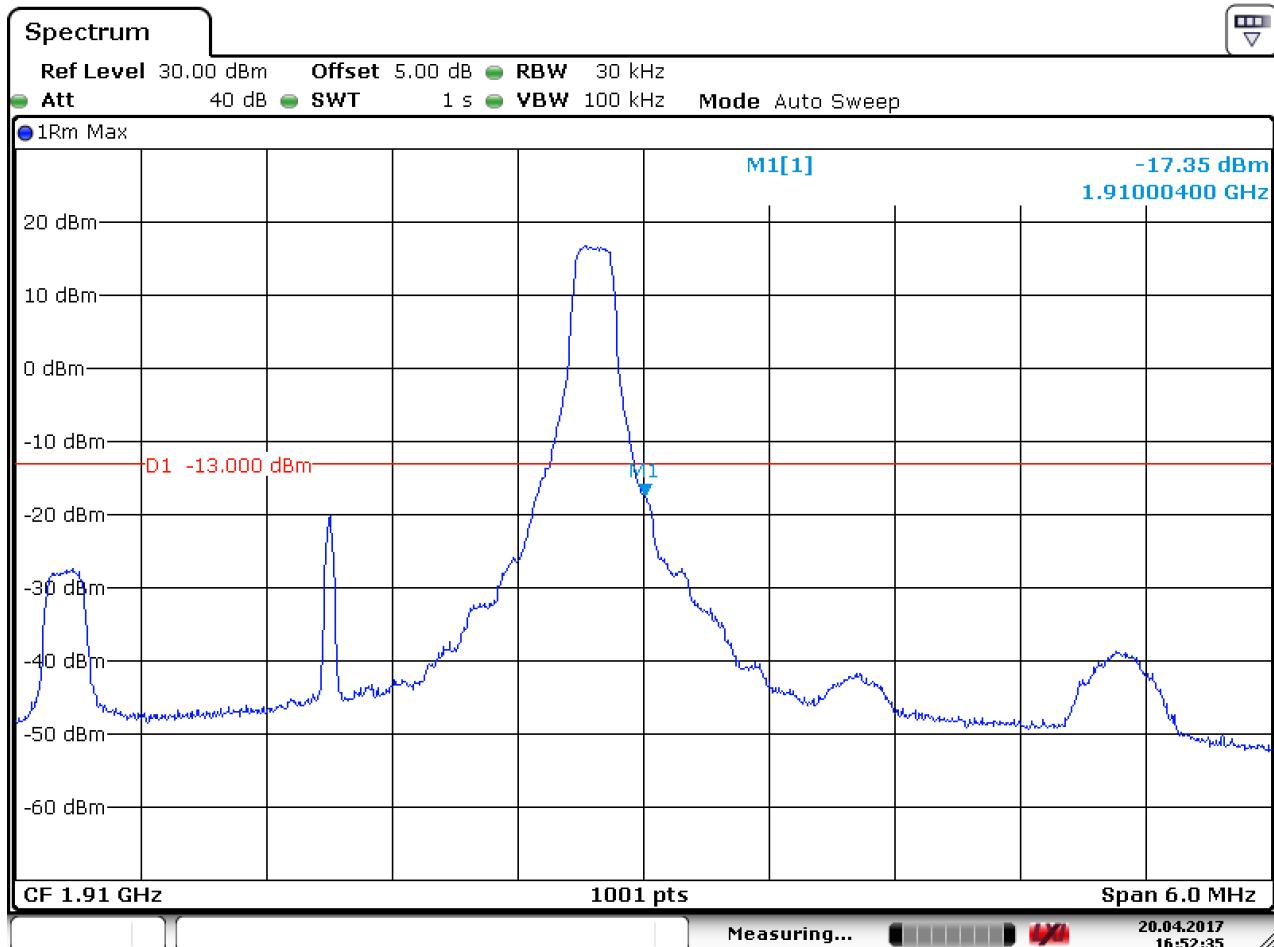
5.1.1.3   Test Mode = LTE/TM1 3MHz

5.1.1.3.1   Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB

Date: 20.APR.2017 16:53:27

5.1.1.3.1.2 Test RB=15RB

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
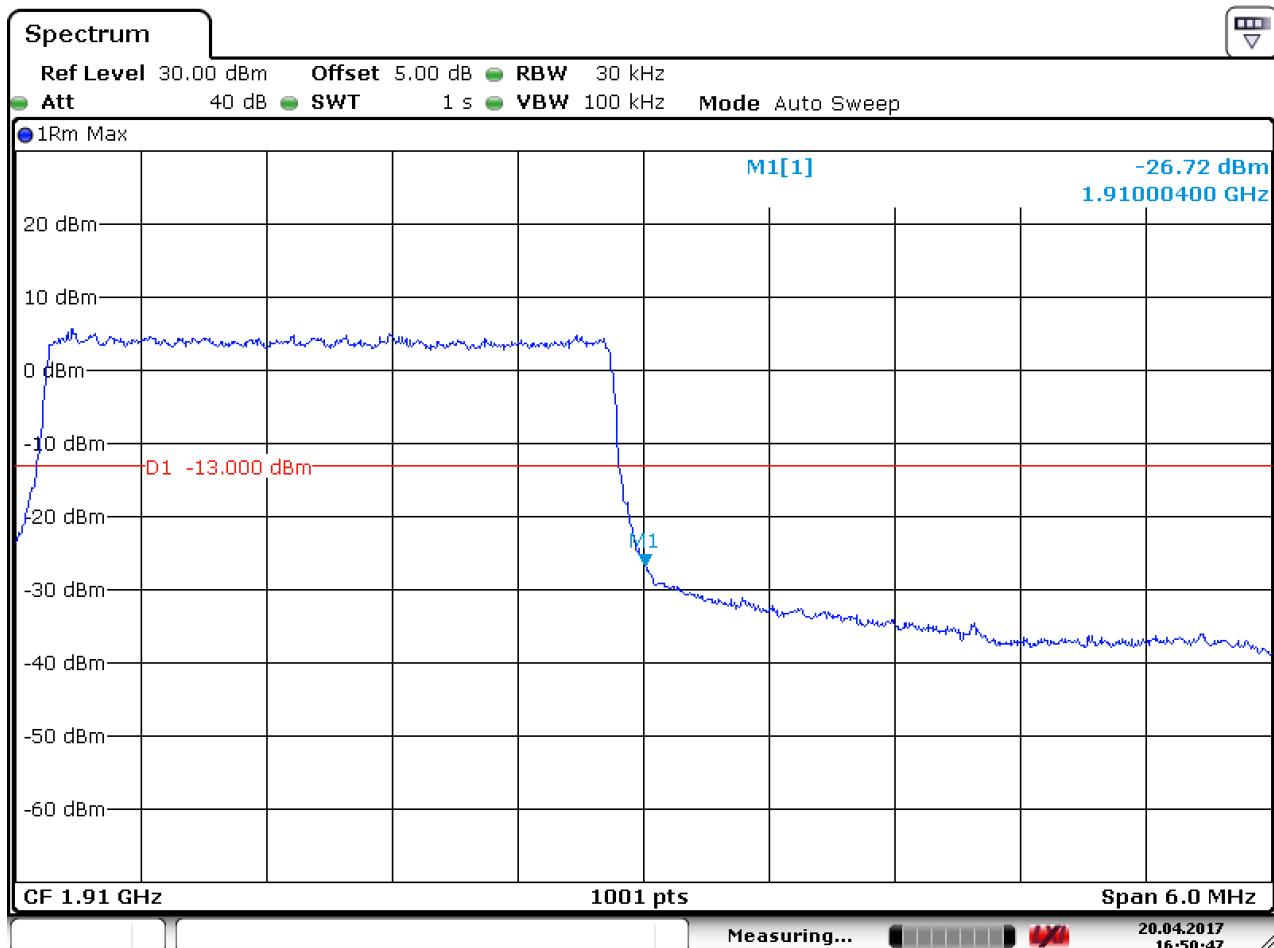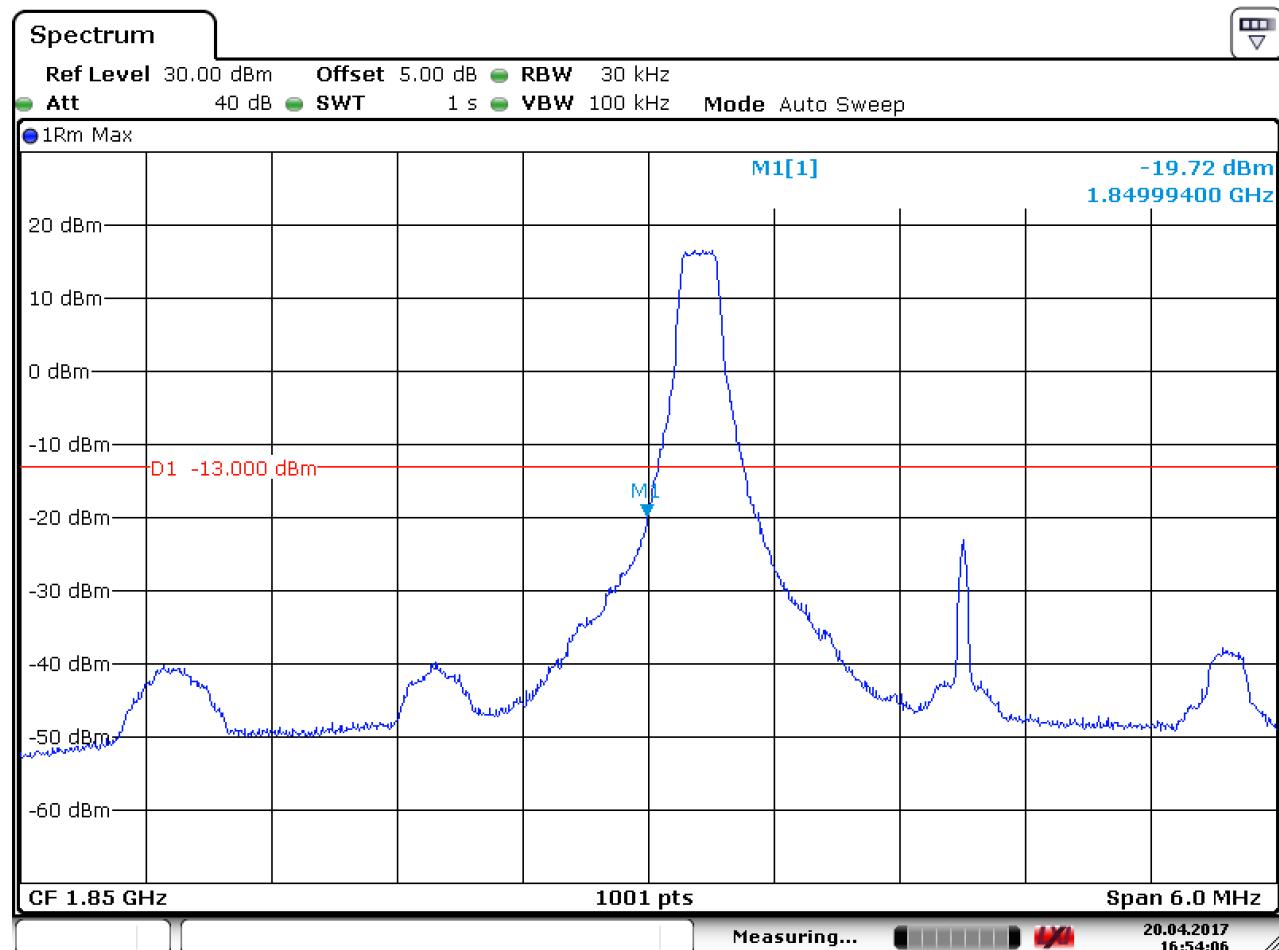
5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB

Date: 20.APR.2017 16:52:35

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

5.1.1.3.2.2 Test RB=15RB

Spectrum					
Ref Level 30.00 dBm	Offset 5.00 dB	RBW 30 kHz			
Att 40 dB	SWT 1 s	VBW 100 kHz	Mode Auto Sweep		

1Rm Max

M1[1]   −26.72 dBm
               1.91000400 GHz

20 dBm

10 dBm

0 dBm

−10 dBm

D1 −13.000 dBm

−20 dBm

−30 dBm

M1

−40 dBm

−50 dBm

−60 dBm

CF 1.91 GHz   1001 pts   Span 6.0 MHz

Measuring...   20.04.2017 16:50:47
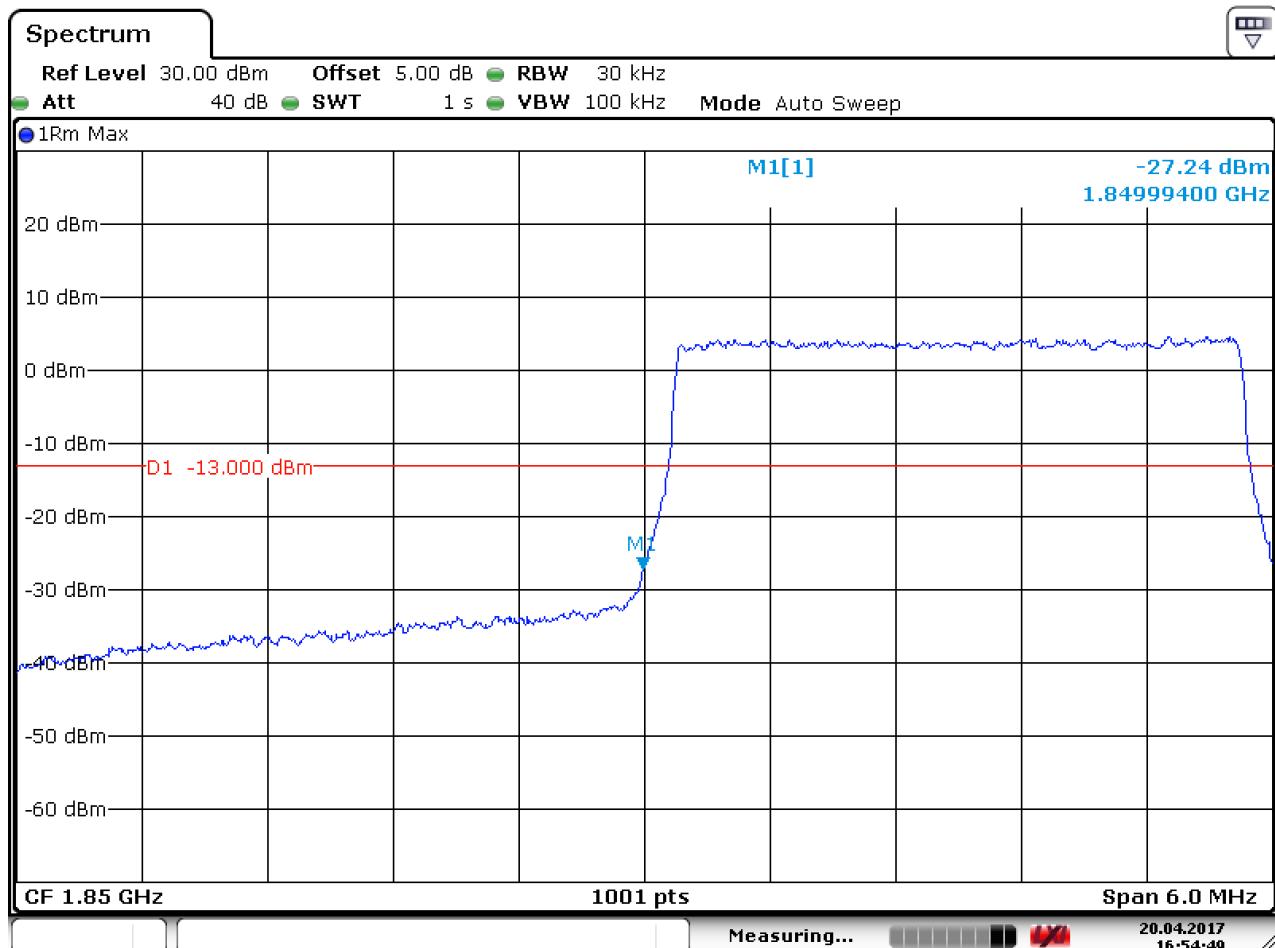
Date: 20.APR.2017 16:50:47
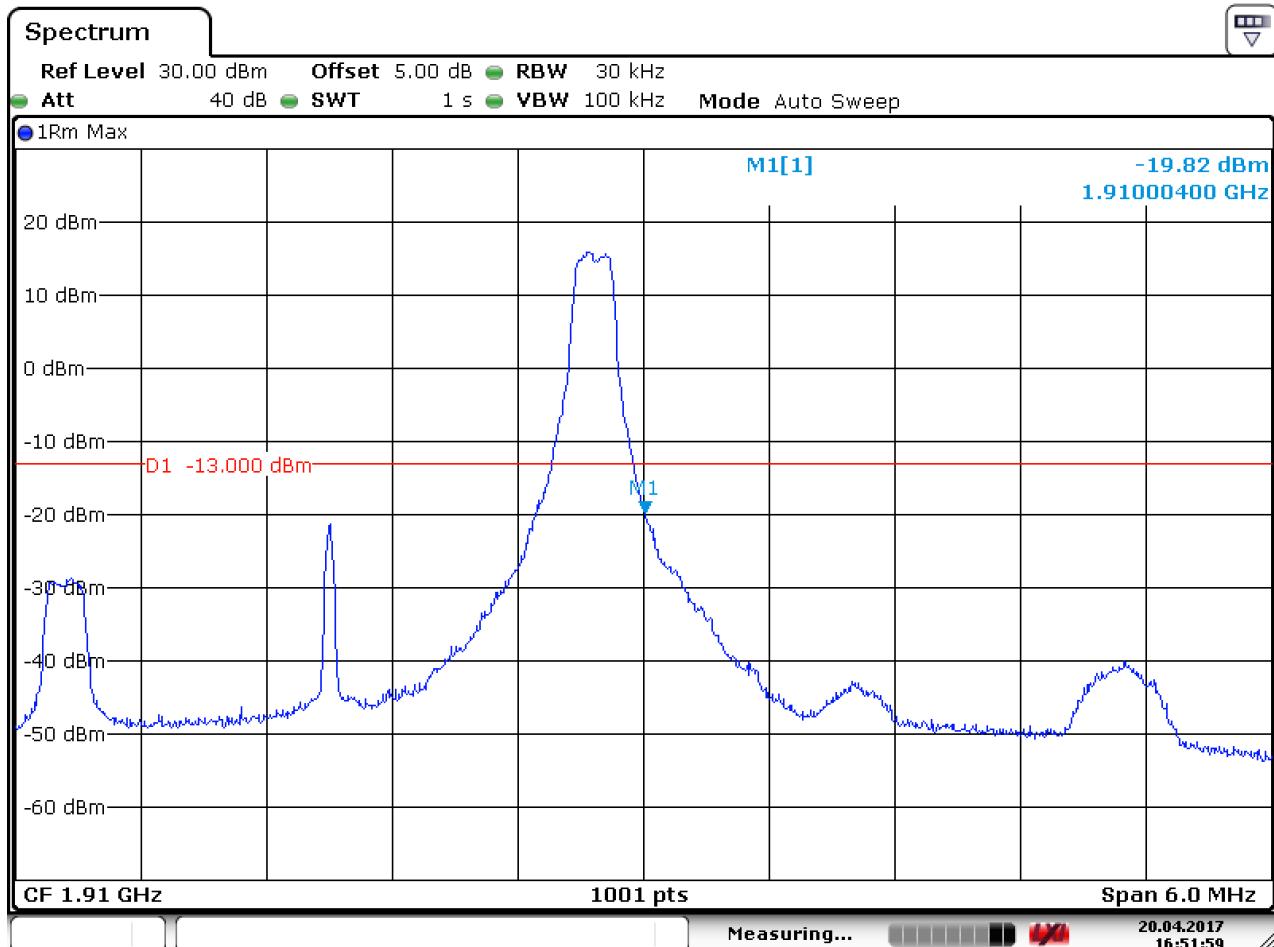
5.1.1.4 Test Mode = LTE/TM2 3MHz

5.1.1.4.1 Test Channel = LCH

##### 5.1.1.4.1.1 Test RB=1RB

Date: 20.APR.2017 16:54:06

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
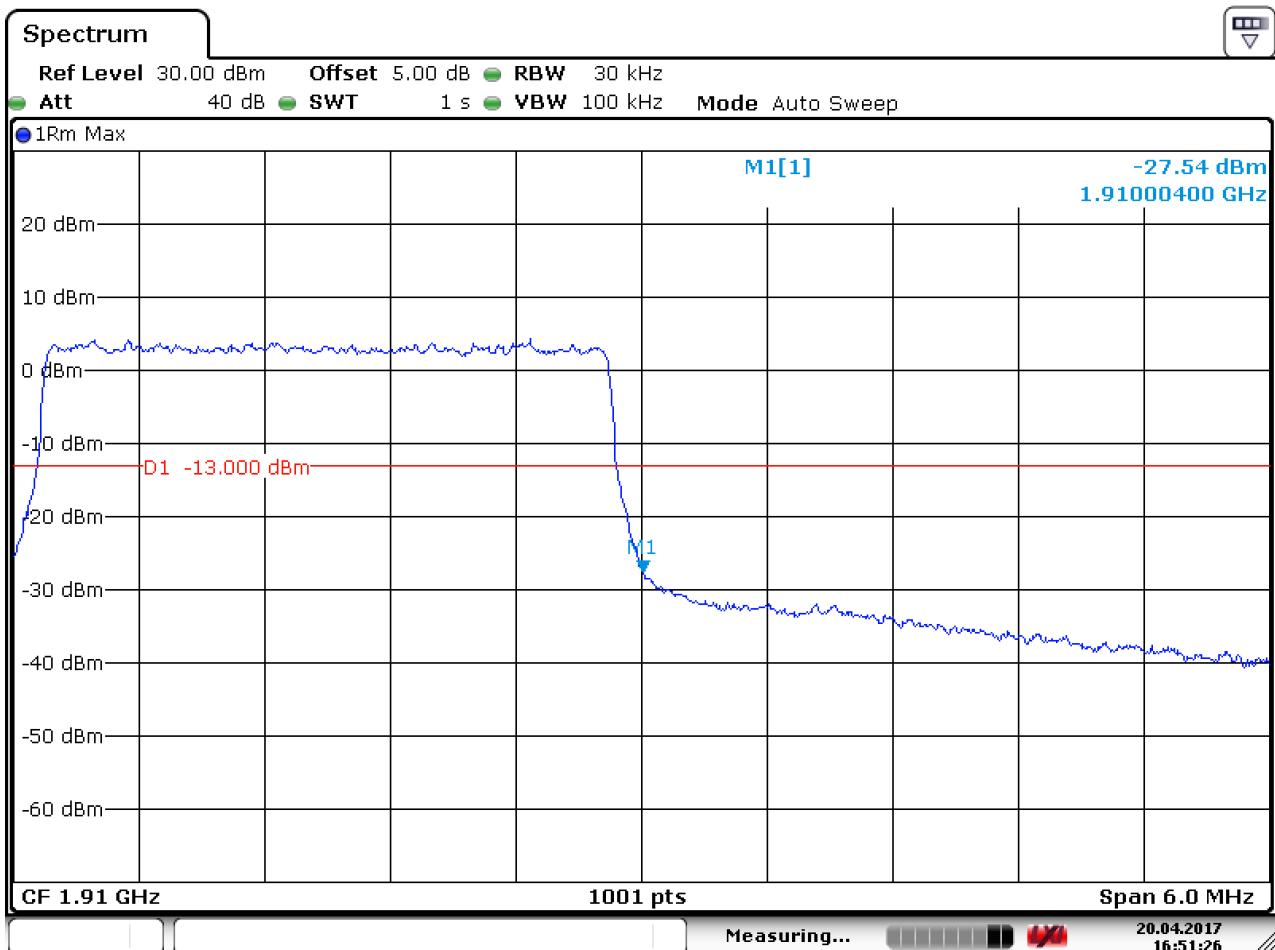
5.1.1.4.1.2 Test RB=15RB

Date: 20.APR.2017 16:54:48

5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB

Date: 20.APR.2017 16:52:00

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

5.1.1.4.3 Test RB=15RB
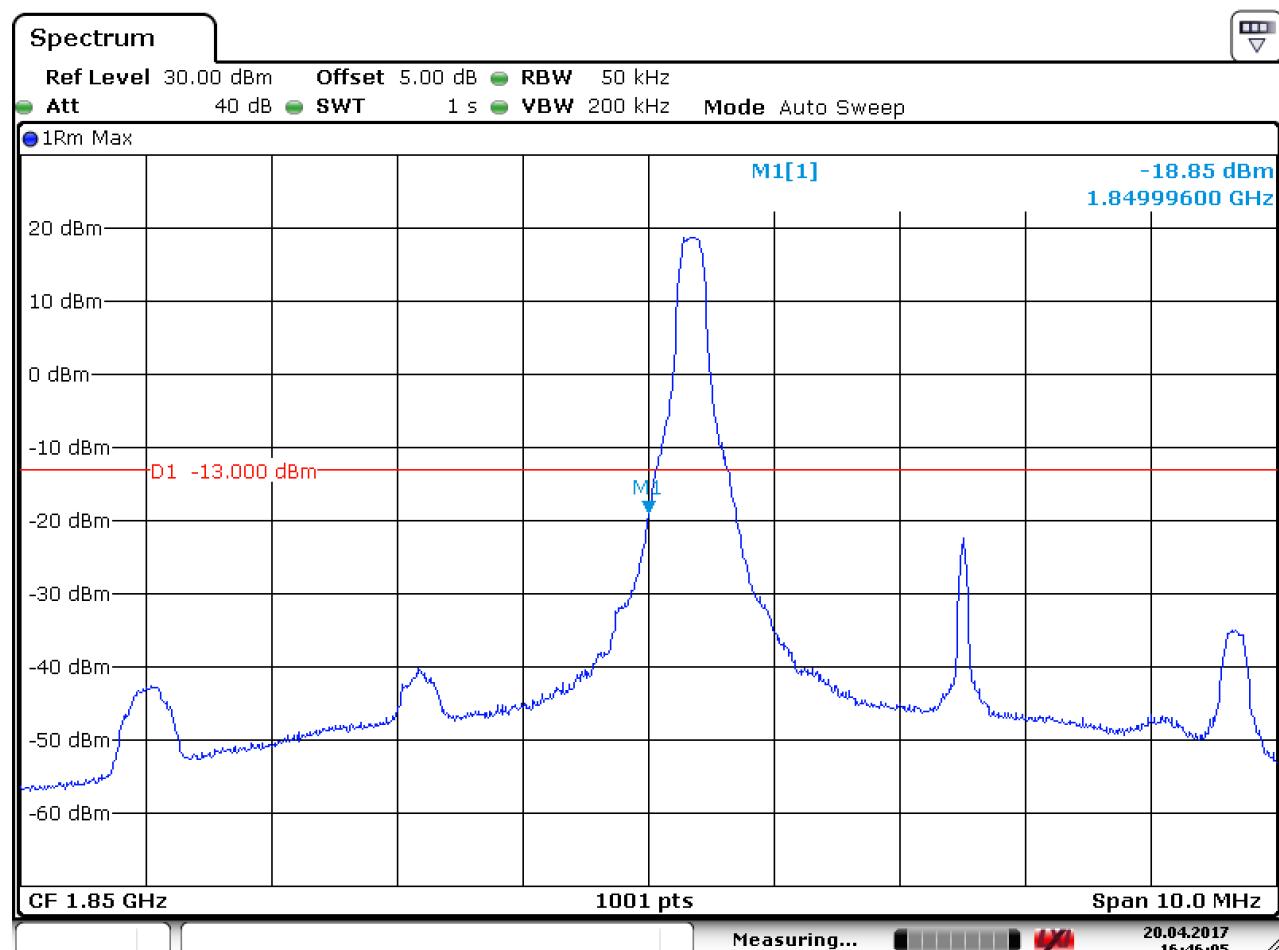
Date: 20.APR.2017 16:51:26

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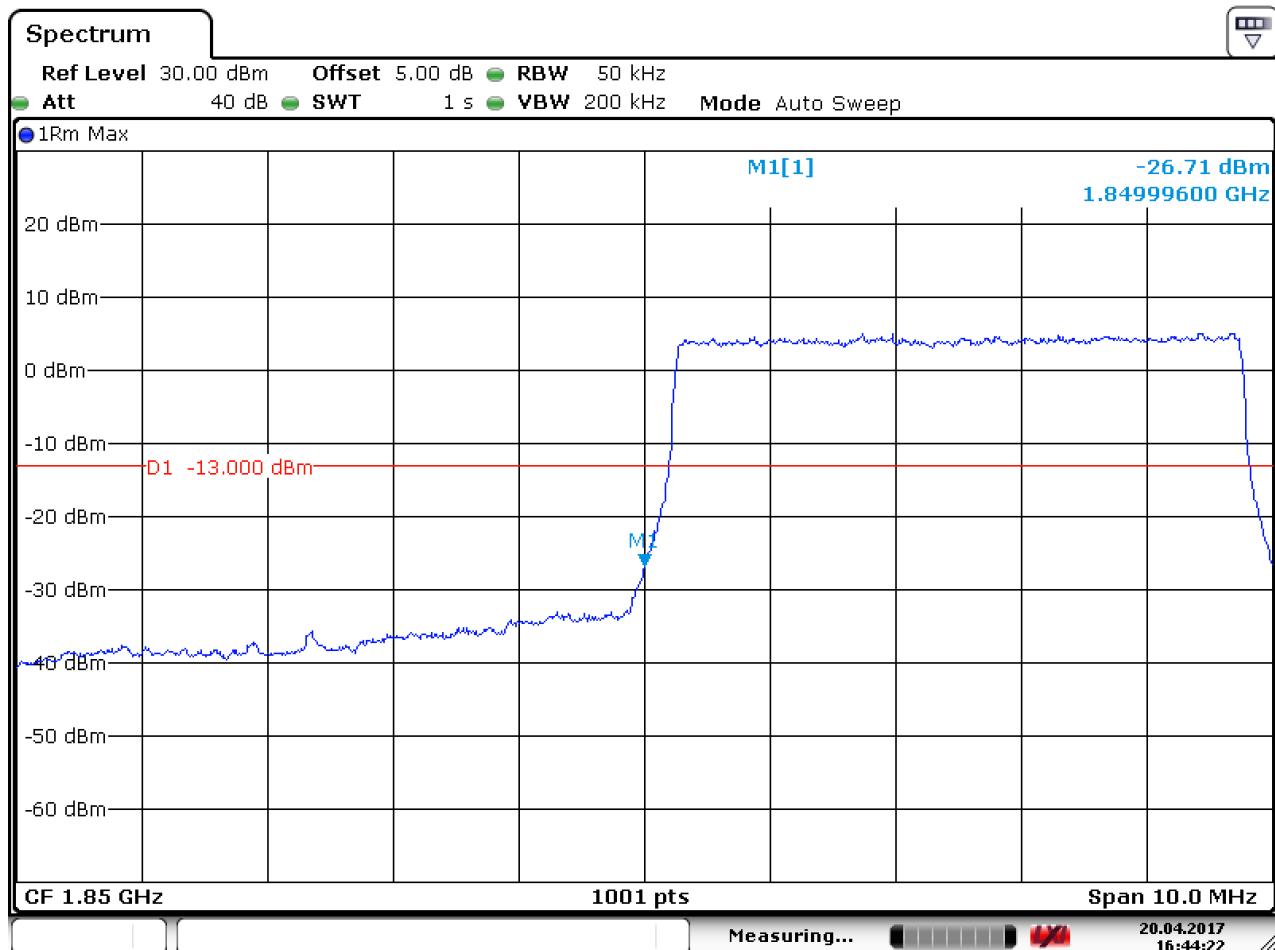
5.1.1.5.1   Test Channel = LCH

**5.1.1.5.1.1 Test RB=1RB**
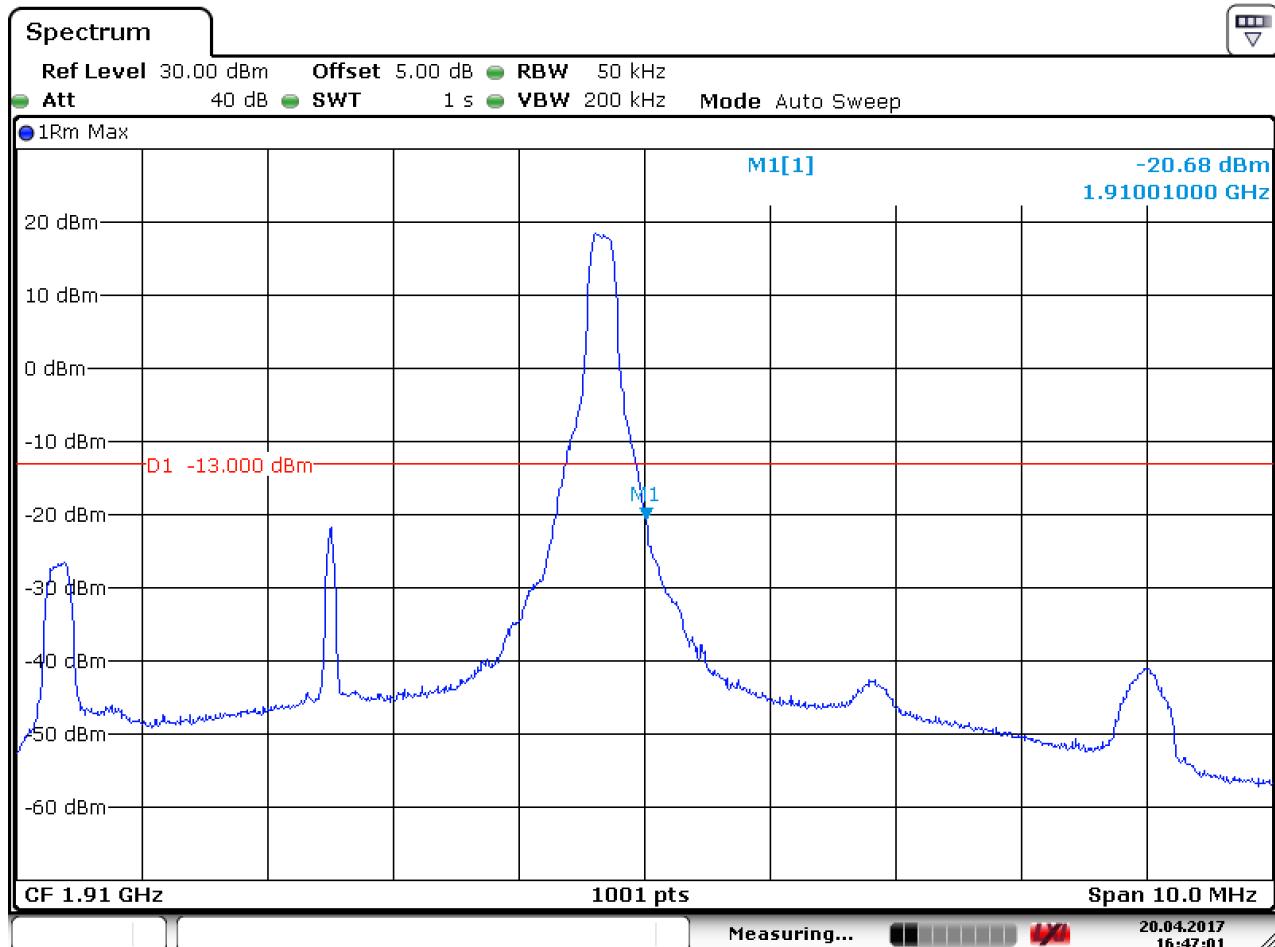
Date: 20.APR.2017 16:46:06

5.1.1.5.1.2 Test RB=25RB

Spectrum

| Ref Level | 30.00 dBm | Offset | 5.00 dB | RBW | 50 kHz |
| Att | 40 dB | SWT | 1 s | VBW | 200 kHz | Mode Auto Sweep |

1Rm Max

M1[1] −26.71 dBm
1.84999600 GHz

D1 −13.000 dBm

CF 1.85 GHz   1001 pts   Span 10.0 MHz

Measuring...   20.04.2017 16:44:22
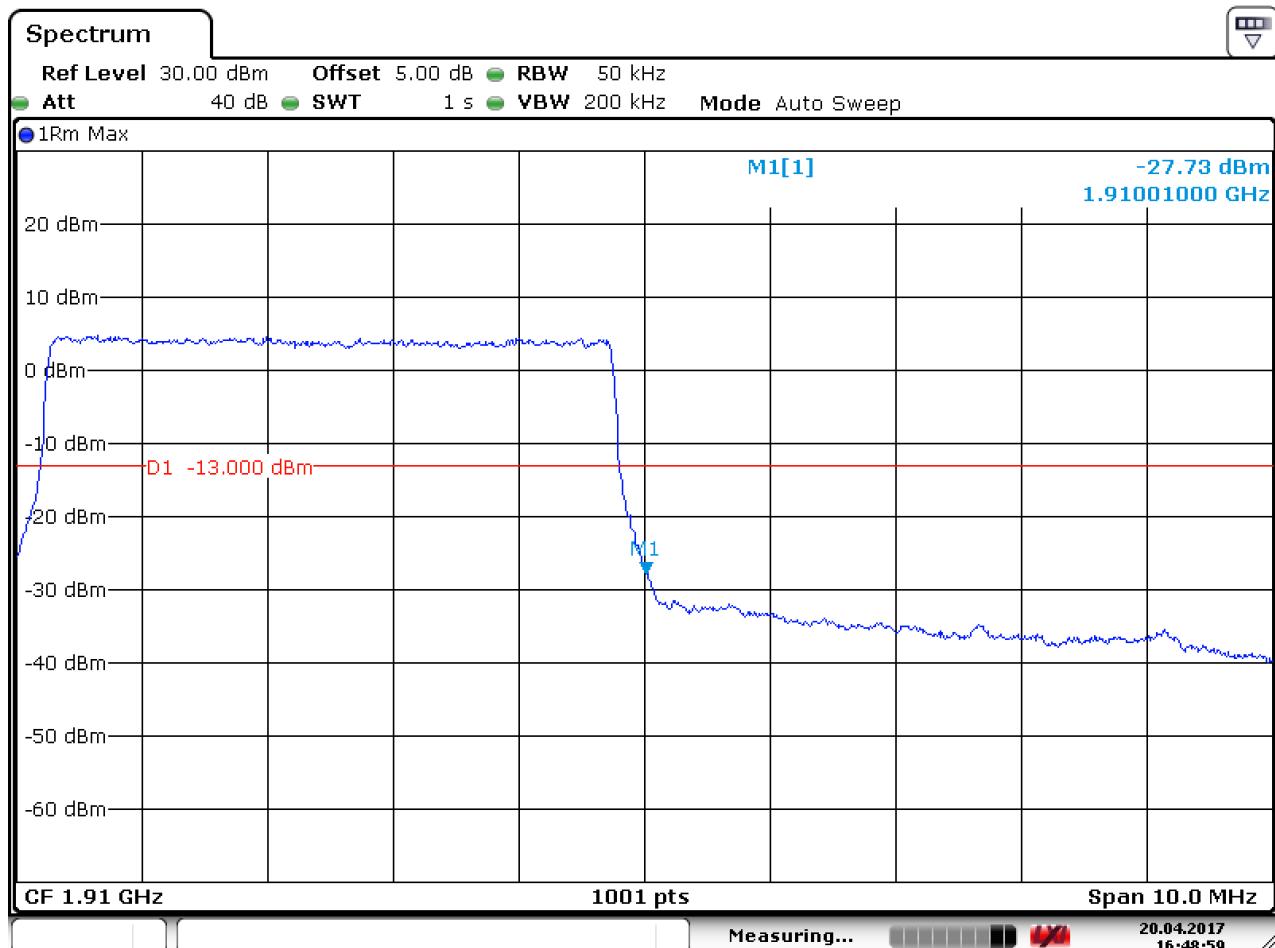
Date: 20.APR.2017 16:44:22
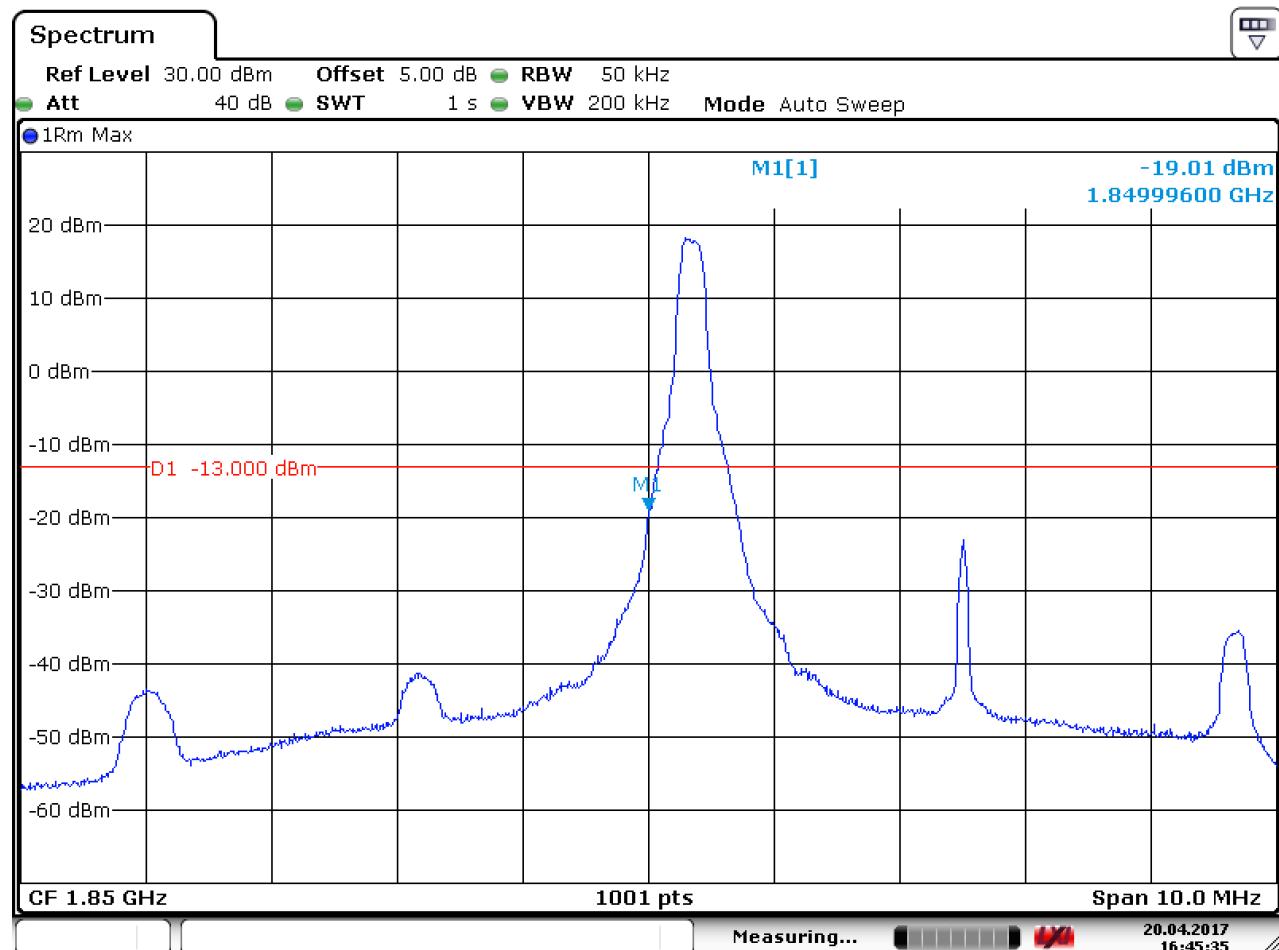
5.1.1.5.2   Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB

Date: 20.APR.2017 16:47:01

5.1.1.5.2.2 Test RB=25RB
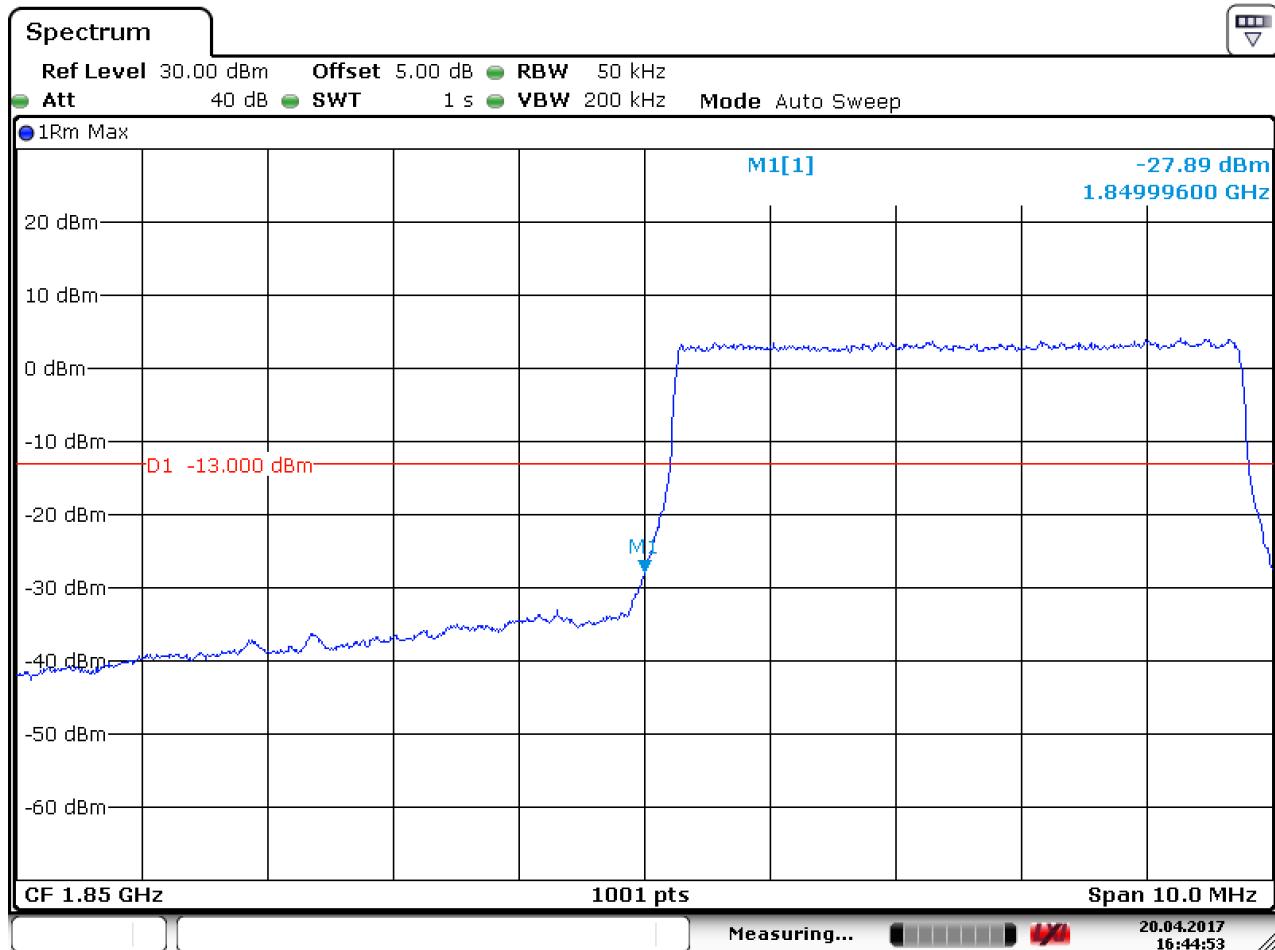
Date: 20.APR.2017 16:48:59
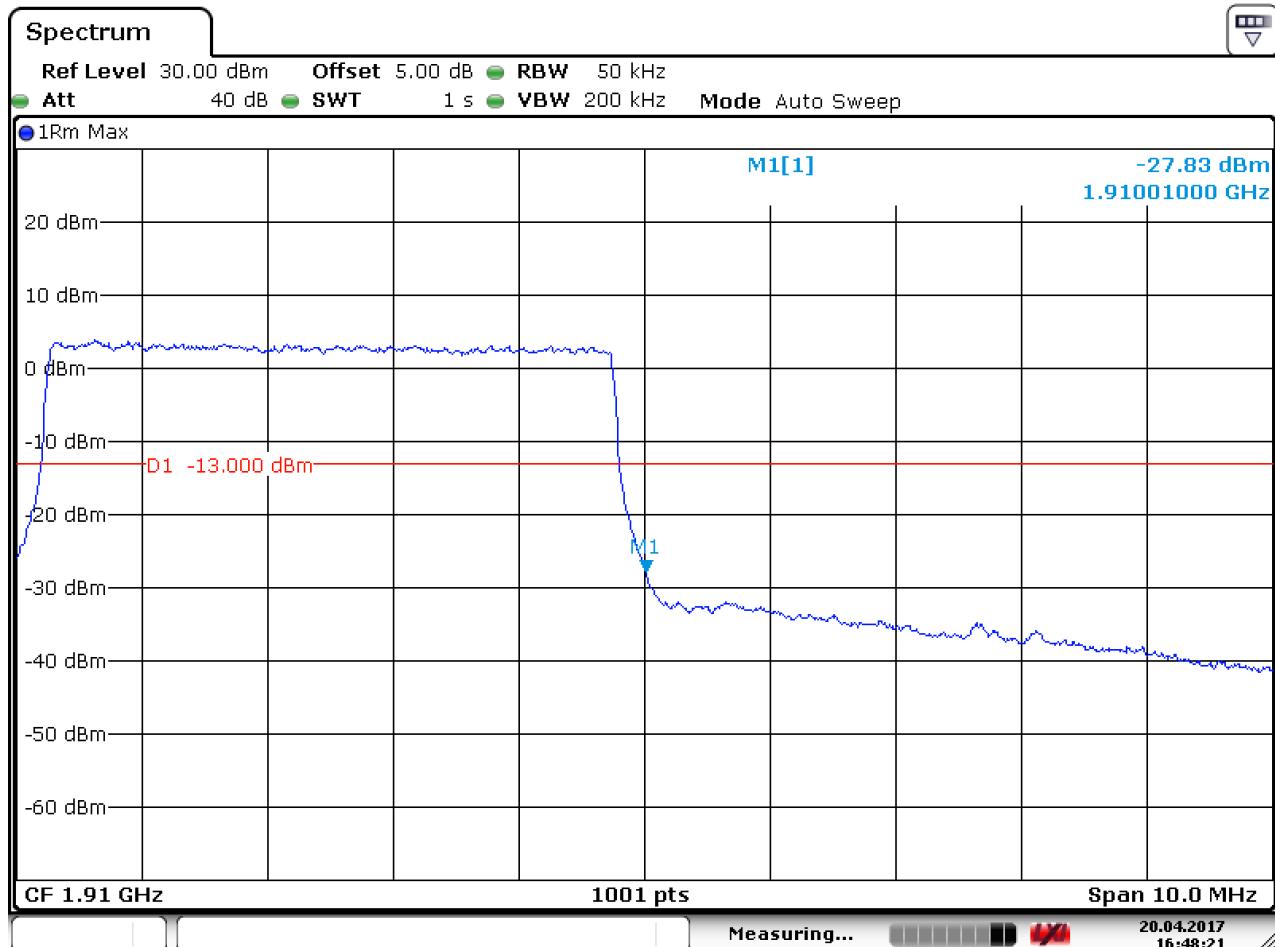
5.1.1.6   Test Mode = LTE/TM2 5MHz

5.1.1.6.1   Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB

Date: 20.APR.2017 16:45:35

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

5.1.1.6.1.2 Test RB=25RB

Spectrum				
Ref Level 30.00 dBm	Offset 5.00 dB	RBW 50 kHz		
Att 40 dB	SWT 1 s	VBW 200 kHz	Mode Auto Sweep	

1Rm Max

M1[1]   -27.89 dBm
1.84999600 GHz

20 dBm

10 dBm

0 dBm

-10 dBm

D1 -13.000 dBm

-20 dBm

-30 dBm   M1

-40 dBm

-50 dBm

-60 dBm

CF 1.85 GHz   1001 pts   Span 10.0 MHz

Measuring...   20.04.2017 16:44:53
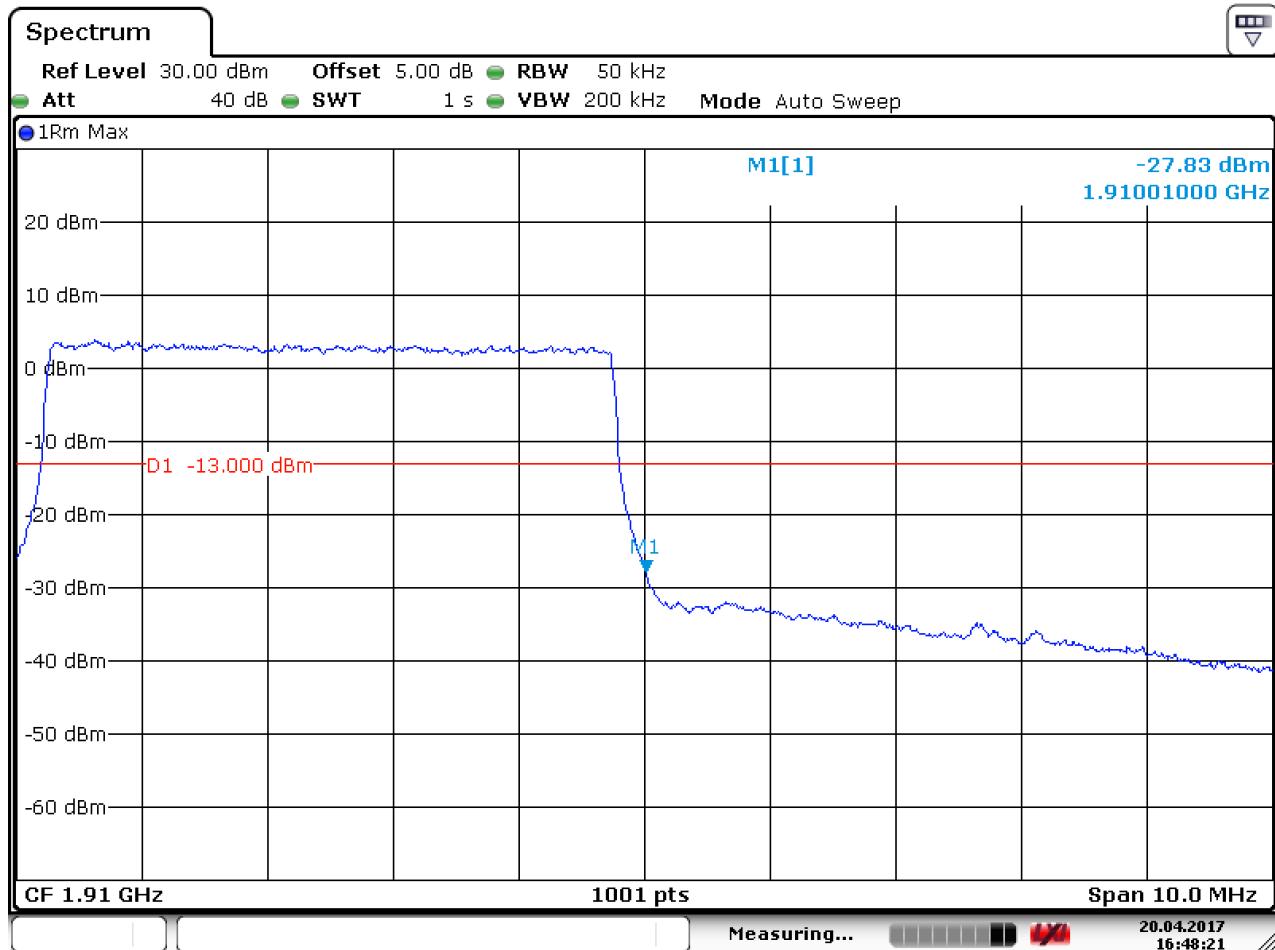
Date: 20.APR.2017 16:44:54
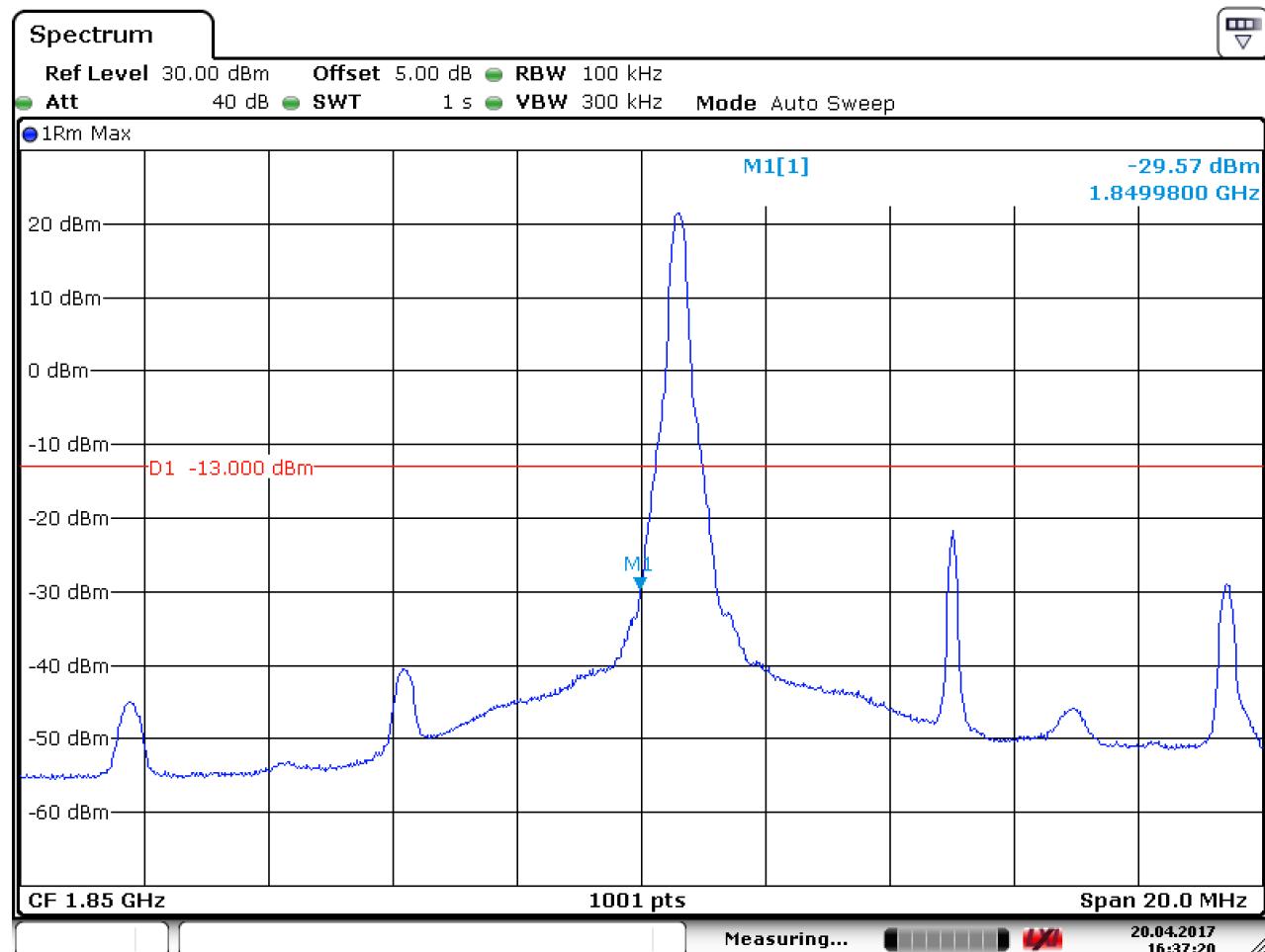
5.1.1.6.2   Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB

Date: 20.APR.2017 16:48:22

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

5.1.1.6.2.2 Test RB=25RB
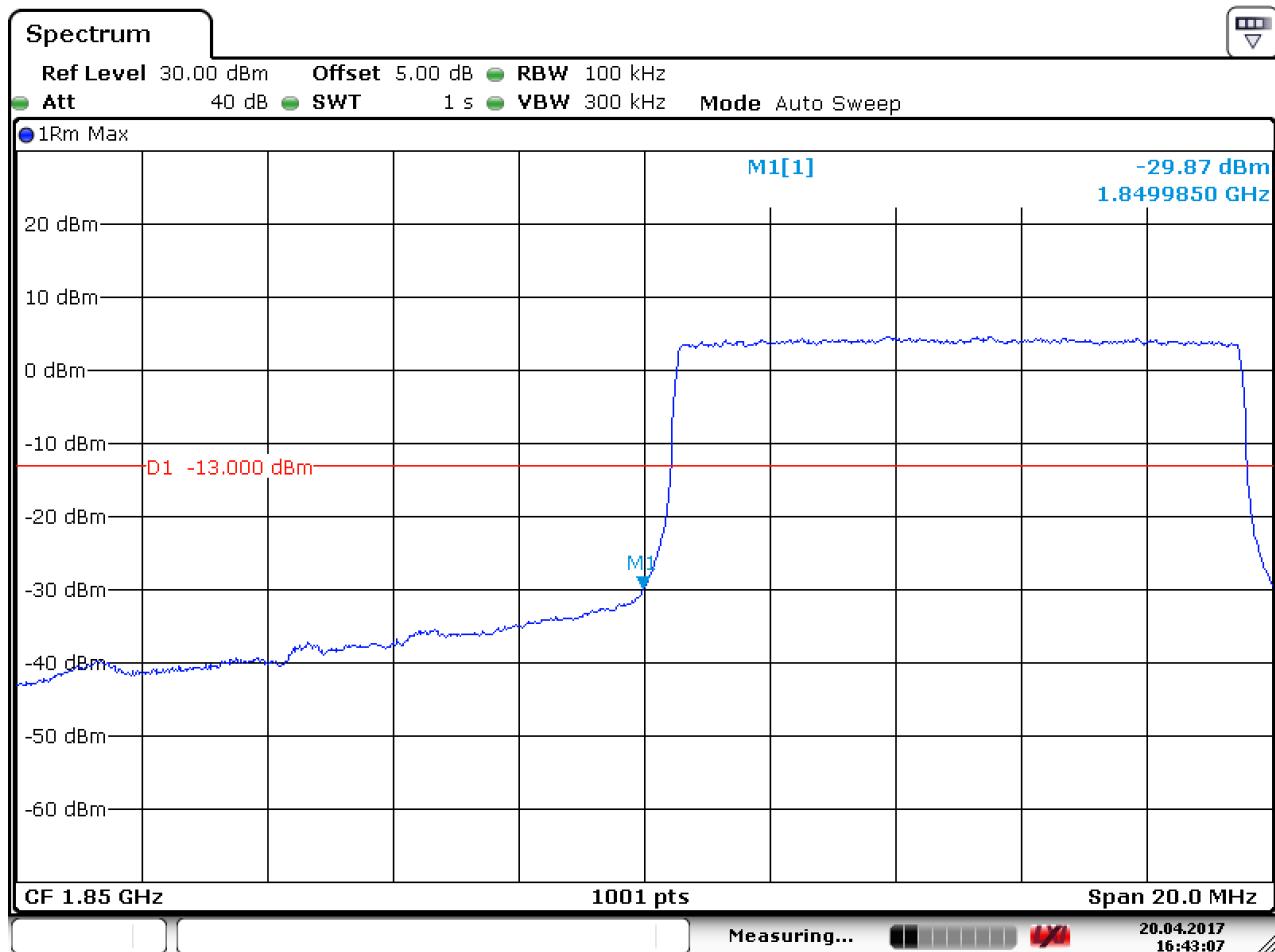
Date: 20.APR.2017 16:48:22
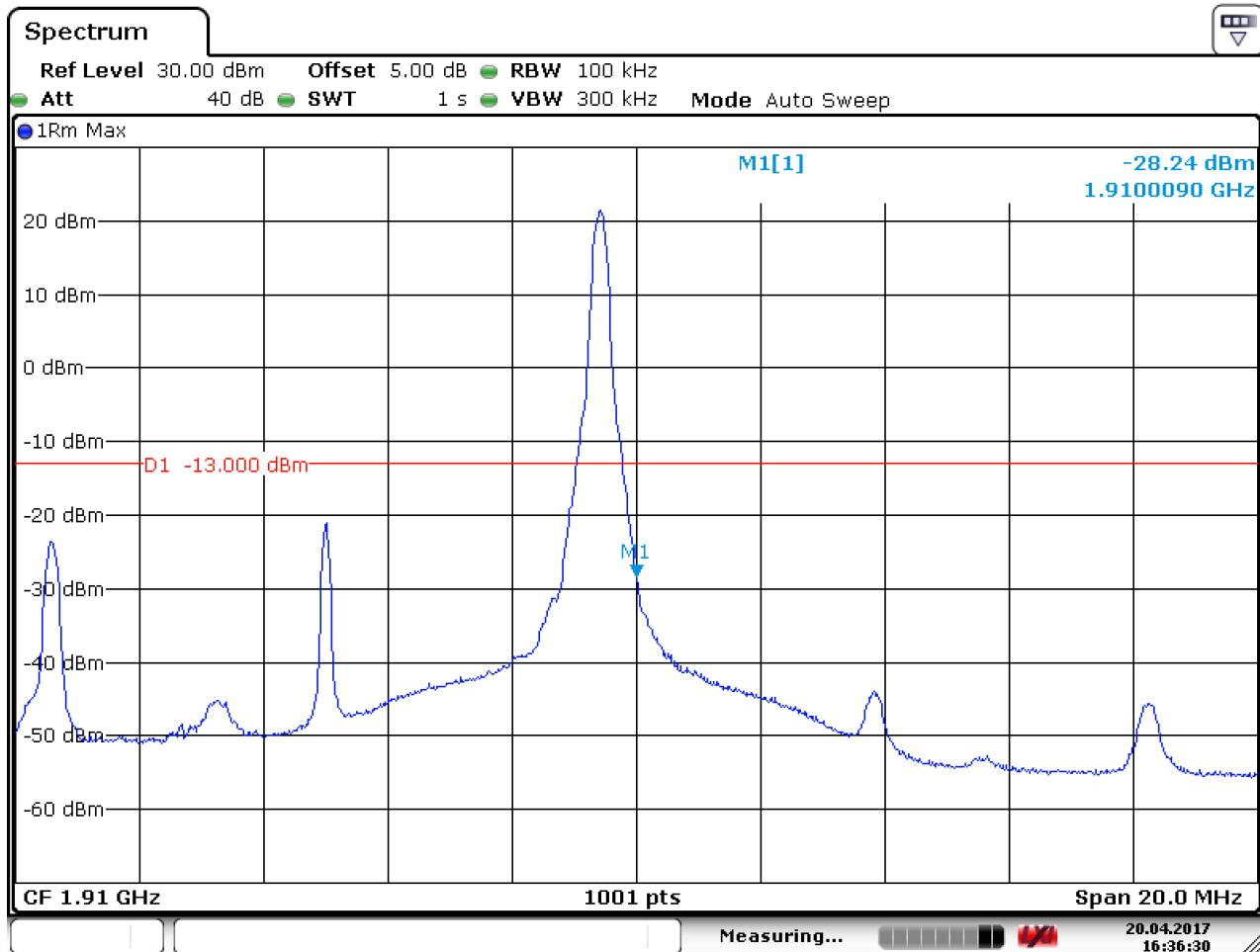
5.1.1.7   Test Mode = LTE/TM1 10MHz

5.1.1.7.1   Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB

Date: 20.APR.2017 16:37:21

5.1.1.7.1.2 Test RB=50RB

Spectrum				
Ref Level 30.00 dBm	**Offset** 5.00 dB	● RBW 100 kHz		
● **Att** 40 dB	● **SWT** 1 s	● VBW 300 kHz	**Mode** Auto Sweep	

1Rm Max

M1[1]   -29.87 dBm
1.8499850 GHz

20 dBm

10 dBm

0 dBm

-10 dBm

D1 -13.000 dBm

-20 dBm

-30 dBm   M1

-40 dBm

-50 dBm

-60 dBm

CF 1.85 GHz   1001 pts   Span 20.0 MHz

Measuring...   20.04.2017
16:43:07

Date: 20.APR.2017 16:43:07

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
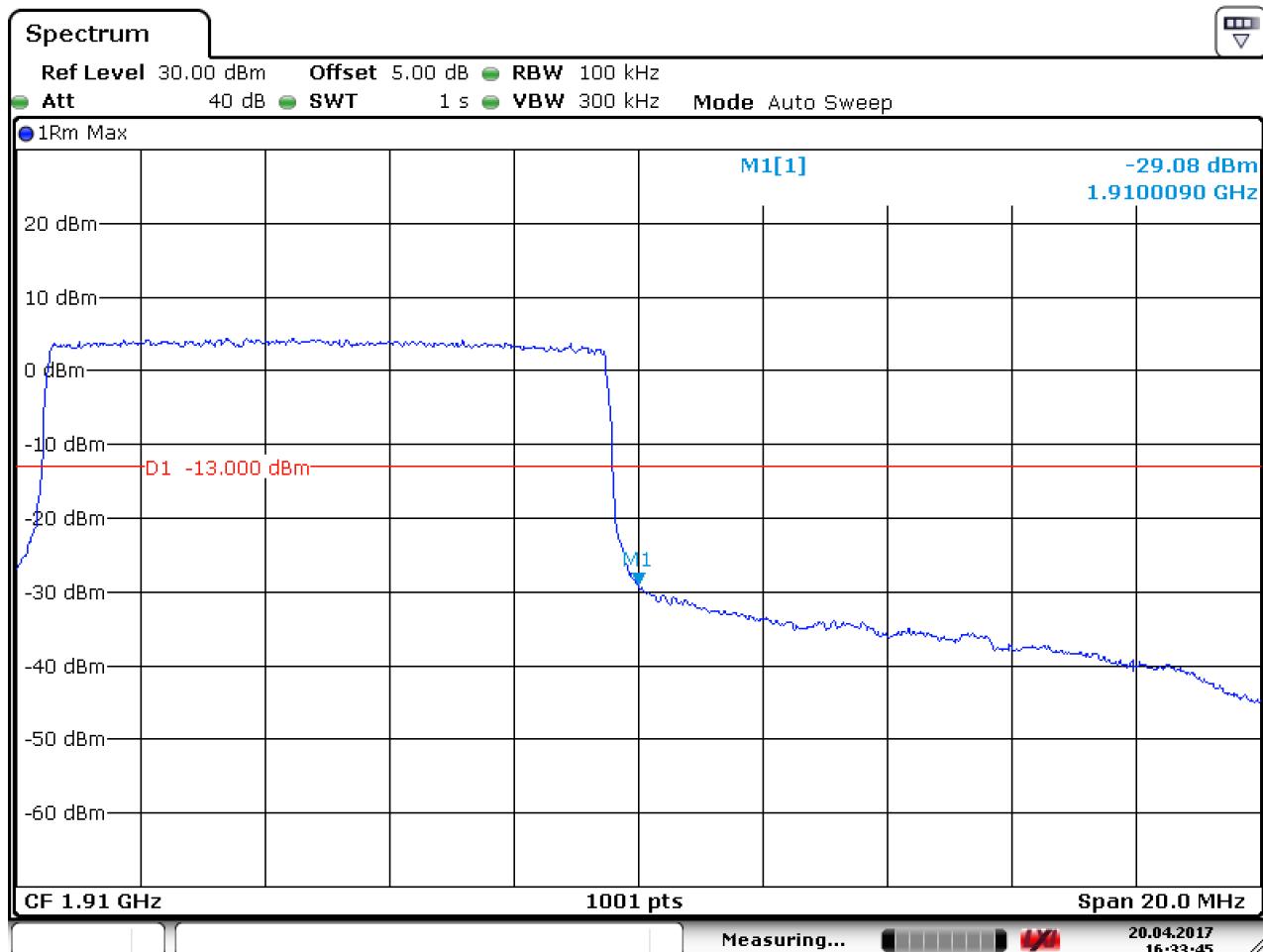
5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB

Date: 20.APR.2017 16:36:31

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5.1.1.7.2.2 Test RB=50RB


Date: 20.APR.2017 16:33:46

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

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Spectrum                                                              ▭▿

    Ref Level  30.00 dBm    Offset  5.00 dB  ● RBW  100 kHz
 ● Att          40 dB     ● SWT       1 s   ● VBW  300 kHz   Mode  Auto Sweep
 ● 1Rm Max
                                              M1[1]              -30.90 dBm
                                                              1.8499800 GHz
   20 dBm

   10 dBm

    0 dBm

  -10 dBm
      D1 -13.000 dBm
  -20 dBm

  -30 dBm                                   M1

  -40 dBm

  -50 dBm

  -60 dBm

 CF 1.85 GHz                    1001 pts                      Span 20.0 MHz

                              Measuring...  ▮▮▯▯▯▯▯ ⚡        20.04.2017
                                                              16:38:17
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Date: 20.APR.2017 16:38:18