



TEST REPORT

<p>KCTL Inc. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-31-285-0894 FAX: 82-505-299-8311 www.kctl.co.kr</p>	<p>Report No.: KR20-SRF0025 Page (1) of (61)</p>	
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1. Client

- Name : Samsung Electronics Co., Ltd.
- Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
- Date of Receipt : 2019-12-26

2. Use of Report : -

3. Name of Product and Model : Mobile phone / SM-M315F/DS

4. Manufacturer and Country of Origin : Samsung Electronics Co., Ltd. / Korea

5. FCC ID : A3LSMM315F

6. Date of Test : 2020-01-14 to 2020-01-27

7. Test Standards : FCC Part 2
 FCC Part 27 Subpart L

8. Test Results : Refer to the test result in the test report

Affirmation	Tested by	Technical Manager
	Name : Kwonse Kim (Signature)	Name : Bobae Lee (Signature)

2020-01-30

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Report No.:
KR20-SRF0025

Page (2) of (61)

**Report revision history**

Date	Revision	Page No
2020-01-30	Initial report	-

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CONTENTS

1.	General information	4
2.	Device information	4
2.1.	Accessory information	6
2.2.	Frequency/channel operations.....	6
3.	Maximum ERP/EIRP power	7
4.	Summary of tests	8
4.1.	Worst case orientation	8
5.	Measurement uncertainty	9
6.	Measurement results explanation example	10
7.	Test results	11
7.1.	Conducted output power	11
7.2.	99% Occupied Bandwidth & 26 dB Bandwidth.....	14
7.3.	Spurious Emissions at Antenna Terminal.....	29
7.4.	Band Edge Emissions at Antenna Terminal	36
7.5.	Peak to Average Power Ratio (PAPR)	44
7.6.	Frequency stability	51
7.7.	Radiated Power (ERP/EIRP)	54
7.8.	Radiated Spurious Emissions	58
8.	Measurement equipment	61

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Page (4) of (61)

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1. General information

Client : Samsung Electronics Co., Ltd.
Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677,
Rep. of Korea
Manufacturer : Samsung Electronics Co., Ltd.
Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677,
Rep. of Korea
Factory : Samsung Electronics Vietnam Thai Nguyen Co., Ltd
Address : 506-723 16000 Yen Phong 1 Industrial Zone, Yen Trung Commu Yen Phong
District Bac Ninh Province Vietnam
Factory : Samsung India Electronics PVT. Ltd
Address : B-1, Sector-8 NOIDA Uttar Pradeshe, India 201-305
Factory : Samsung Electronics Co., Ltd.
Address : 94-1, Imsu-dong, Gumi-si, Gyengsangbuk-do, 730-722, Republic of Korea
Laboratory : KCTL Inc.
Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
Industry Canada Registration No. : 8035A
KOLAS No.: KT231

2. Device information

Equipment under test : Mobile Phone
Model : SM-M315F/DS
Modulation technique : Bluetooth(BDR/EDR)_GFSK, $\pi/4$ DQPSK, 8DPSK
Bluetooth(BLE)_GFSK
WIFI(802.11b/g/n20/n40/ac20/ac40/ac80)_DSSS, OFDM
LTE_QPSK, 16QAM
WCDMA_QPSK
GSM_GMSK, 8-PSK
Number of channels : Bluetooth(BDR/EDR)_79ch / Bluetooth(BLE)_40ch
802.11b/g/n_HT20 : 11 ch
UNII-1: 4 ch (20 MHz), 2 ch (40 MHz), 1 ch (80 MHz)
UNII-2A: 4 ch (20 MHz), 2 ch (40 MHz), 1 ch (80 MHz)
UNII-2C: 12 ch (20 MHz), 6 ch (40 MHz), 3 ch (80 MHz)
UNII-3: 5 ch (20 MHz), 2 ch (40 MHz), 1 ch (80 MHz)
Power source : DC 3.85 V
Antenna specification : LTE/GSM/WCDMA_LDS Antenna
WIFI/Bluetooth(BDR/EDR/BLE)_LDS Antenna

Antenna gain	: WIFI/Bluetooth(BDR/EDR/BLE) : -3.4 dBi UNII-1 -5.9 dBi UNII-2A -6.3 dBi UNII-2C -5.3 dBi UNII-3 -6.6 dBi
Frequency range	: Bluetooth(BDR/EDR/BLE)_2 402 MHz ~ 2 480 MHz 2 412 MHz ~ 2 462 MHz (802.11b/g/n_HT20) UNII-1: 5 180 MHz ~ 5 240 MHz (802.11a/n_HT20/ac_VHT20) UNII-1: 5 190 MHz ~ 5 230 MHz (802.11n_HT40/ac_VHT40) UNII-1: 5 210 MHz (802.11ac_VHT80) UNII-2A: 5 260 MHz ~ 5 320 MHz (802.11a/n_HT20/ac_VHT20) UNII-2A: 5 270 MHz ~ 5 310 MHz (802.11n_HT40/ac_VHT40) UNII-2A: 5 290 MHz (802.11ac_VHT80) UNII-2C: 5 500 MHz ~ 5 720 MHz (802.11a/n_HT20/ac_VHT20) UNII-2C: 5 510 MHz ~ 5 710 MHz (802.11n_HT40/ac_VHT40) UNII-2C: 5 530 MHz ~ 5 690 MHz (802.11ac_VHT80) UNII-3: 5 745 MHz ~ 5 825 MHz (802.11a/n_HT20/ac_VHT20) UNII-3: 5 755 MHz ~ 5 795 MHz (802.11n_HT40/ac_VHT40) UNII-3: 5 775 MHz (802.11ac_VHT80) LTE Band 2_1 850.7 MHz ~ 1 909.3 MHz LTE Band 4_1 710.7 MHz ~ 1 754.3 MHz LTE Band 5_824.7 MHz ~ 848.3 MHz LTE Band 12_699.7 MHz ~ 715.3 MHz LTE Band 13_779.5 MHz ~ 784.5 MHz LTE Band 17_706.5 MHz ~ 713.5 MHz LTE Band 26_824.7 MHz ~ 848.3 MHz, 814.7 MHz ~ 823.3 MHz LTE Band 41_2 498.5 MHz ~ 2 687.5 MHz LTE Band 66_1 710.7 MHz ~ 1 779.3 MHz GSM 850_824.2 MHz ~ 848.8 MHz GSM 1900_1 850.2 MHz ~ 1 909.8 MHz WCDMA 850_826.4 MHz ~ 846.6 MHz WCDMA 1700_1 712.4 MHz ~ 1 752.6 MHz WCDMA 1910_1 852.4 MHz ~ 1 907.6 MHz
Software version	: M315F.001
Hardware version	: REV1.0
Test device serial No.	: Conducted(R38MC0ANYKB, R38MC0ANZKH, R38MC0AP17A, R38MC0ANXTJ) Radiated(R38MC0ANYWL, R38MC0ANZHK)
Operation temperature	: -30 °C ~ 50 °C

2.1. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source
Travel Adapter	Samsung Electronics Co., Ltd.	EP-TA200	R37M4NR27T1SE3	AC 100-240V 50-60 Hz, 0.5A, 9.0V-1.67A, 5.0V-2.0A
Micro USB Data Cable	Samsung Electronics Co., Ltd.	-	-	-

2.2. Frequency/channel operations

This device contains the following capabilities:

WIFI(2.4GHz band 802.11b/g/n(HT20), 5GHz band 802.11a/n(HT20/HT40)/ac(VHT/20/40/80)),
 Bluetooth(BDR/EDR/BLE),

LTE Band 2, LTE Band 4, LTE Band 5, LTE Band 12, LTE Band 13, LTE Band 17, LTE Band 26,
 LTE Band 41, LTE Band 66, WCDMA 850, WCDMA 1700, WCDMA 1900, GSM 850, GSM 1900

LTE Band 66

Ch.	Frequency (MHz)
131979	1 710.7
132322	1 745.0
132665	1 779.3

Table 2.2.1. 1.4M BW

Ch.	Frequency (MHz)
131987	1 711.5
132322	1 745.0
132657	1 778.5

Table 2.2.2. 3M BW

Ch.	Frequency (MHz)
131997	1 712.5
132322	1 745.00
132647	1 777.5

Table 2.2.3. 5M BW

Ch.	Frequency (MHz)
132022	1 715.0
132322	1 745.0
132622	1 775.0

Table 2.2.4. 10M BW

Ch.	Frequency (MHz)
132047	1 717.5
132322	1 745.0
132597	1 772.5

Table 2.2.5. 15M BW

Ch.	Frequency (MHz)
132072	1 720.0
132322	1 745.0
132572	1 770.0

Table 2.2.6. 20M BW

Notes:

LTE Band 66(1 710 – 1 780 MHz) overlaps the entire frequency range of LTE Band 4(1 710 – 1 755 MHz) and they have same maximum tune-up power.

Therefore, test data provided in this report covers Band 4 as well as Band 66 subpart to Part27.

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Report No.:
KR20-SRF0025

Page (7) of (61)

KCTL**3. Maximum ERP/EIRP power****LTE Band 66**

Mode	Tx frequency (MHz)	Emission designator	EIRP	
			Max. power (dBm)	Max. power (W)
LTE Band 4/66	1 710.7 ~ 1 779.3	1M10G7D	21.09	0.129
		1M11W7D	20.22	0.105
	1 711.5 ~ 1 778.5	2M71G7D	21.22	0.132
		2M71W7D	20.20	0.105
	1 712.5 ~ 1 777.5	4M53G7D	21.12	0.129
		4M55W7D	20.33	0.108
	1 715.0 ~ 1 775.0	9M02G7D	21.08	0.128
		9M02W7D	20.30	0.107
	1 717.5 ~ 1 772.5	13M5G7D	21.01	0.126
		13M5W7D	19.92	0.098
	1 720.0 ~ 1 770.0	18M0G7D	21.12	0.129
		18M1W7D	20.15	0.104

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4. Summary of tests

FCC Part section(s)	Parameter	Test Limit	Test Condition	Test results
2.1046	Conducted Output Power	N/A	Conducted	Pass
2.1049	Occupied Bandwidth & 26 dB Bandwidth	N/A		Pass
2.1051 27.53(h)	Band Edge Emissions at Antenna Terminal	<43 + 10Log ₁₀ (P) dB		Pass
	Spurious Emissions at Antenna Terminal			Pass
27.50(d)(5)	Peak to Average Power Ratio	< 13 dB		Pass
2.1055 27.54	Frequency stability	Fundamental emissions stay within authorized frequency block		Pass
27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts max. EIRP	Radiated	Pass
2.1053 27.53(h)	Radiated Spurious Emissions	<43 + 10Log ₁₀ (P) dB		Pass

Notes:

- The test procedure(s) in this report were performed in accordance as following.
 - ANSI C63.26-2015
 - ANSI/TIA-603-E-2016
 - KDB 971168 D01 v03r01

4.1. Worst case orientation

- All modes of operation were investigated and the worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations in the test data.
- All final radiated testing was performed with the EUT in worst case orientation.
- The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that **Z** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **Z** orientation

Test condition	LTE Band	Modulation	Bandwidth (MHz)	RB size	RB offset
Radiated	B4/66	QPSK	3	1	0
Conducted		QPSK 16QAM	1.4, 3, 5, 10, 15, 20	1	0, 5, 14, 24, 49, 74, 99
				Full	0

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Report No.:
KR20-SRF0025

Page (9) of (61)



5. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014.

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded uncertainty (\pm)	
Conducted RF power	1.23 dB	
Conducted spurious emissions	1.24 dB	
Radiated spurious emissions	30 MHz ~ 1 GHz	3.66 dB
	Above 1 GHz	3.32 dB



6. Measurement results explanation example

The offset level is set in the spectrum analyzer to compensate the RF cable loss factor between EUT conducted output port and spectrum analyzer.

With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Frequency (MHz)	Factor(dB)	Frequency (MHz)	Factor(dB)
30	5.69	11 000	7.34
50	5.83	12 000	7.48
100	6.00	13 000	7.54
200	6.10	14 000	7.61
300	6.19	15 000	7.53
400	6.28	16 000	7.63
500	6.30	17 000	6.29
600	6.32	18 000	7.80
700	6.35	19 000	7.90
800	6.37	20 000	8.14
900	6.42	21 000	7.99
1 000	6.41	22 000	8.67
2 000	6.52	23 000	8.06
3 000	6.55	24 000	8.68
4 000	6.73	25 000	8.57
5 000	6.84	26 000	8.63
6 000	6.90	26 500	9.22
7 000	6.89	27 000	9.33
8 000	7.00	28 000	8.46
9 000	6.82	29 000	8.10
10 000	7.21	30 000	8.11

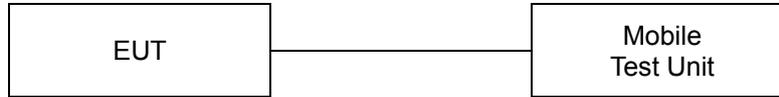
Note.

Offset(dB) = RF cable loss(dB) + Divider(dB)

7. Test results

7.1. Conducted output power

Test setup



Test procedure

971168 D01 v03r01 – Section 5.2
ANSI C63.26-2015 – Section 5.2.4.2
CFR 47, - Section §2.1046

Test settings

When an average power meter is used to perform RF output power measurements, the fundamental condition that measurement be performed only over durations of active transmissions at maximum output power level applies. Thus, an average power meter can always be used to perform the measurement when the EUT can be configured to transmit continuously.

If the EUT cannot be configured to transmit continuously (i.e., burst duty cycle < 98%), then the following options can be implemented to facilitate measurement of the average power with an average power meter:

- a) A gated average power meter can be used to perform the measurement if the gating parameters can be adjusted such that the power is measured only during active transmission bursts at maximum output power levels.
- b) A conventional average power meter with no signal gating capability can also be used if the measured burst duty cycle is constant (i.e., duty cycle variations are less than or equal to $\pm 2\%$) by performing the measurement over the on/off burst cycles and then correcting (increasing) the measured level by a factor equal to $[10\log(1/\text{duty cycle})]$. See 5.2.4.3.4 for guidance with respect to measuring the transmitter duty cycle.

See item r) of 4.1 for more information regarding power meter functional requirements and limitations, and consult the instrumentation-specific application literature for proper set-up and use.

Test results

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power			
						Frequency (MHz)			
						Low	Middle	High	
LTE Band 4/66	1.4	QPSK	1	0	0	23.09	23.74	23.99	
			1	3	0	23.14	23.66	24.13	
			1	5	0	23.13	23.65	23.99	
			3	0	0	24.06	24.13	24.29	
			3	1	0	24.08	24.14	24.20	
			3	3	0	24.04	24.13	24.28	
		6	0	1	23.09	23.62	23.72		
		16QAM	1	0	1	22.57	23.50	23.62	
			1	3	1	22.93	23.52	23.61	
			1	5	1	22.87	23.20	23.59	
			3	0	1	22.97	23.40	23.64	
			3	1	1	23.03	23.51	23.51	
			3	3	1	23.05	23.59	23.51	
		6	0	2	21.99	22.47	22.65		
		3	QPSK	1	0	0	23.65	23.86	24.11
				1	8	0	23.34	23.85	24.03
				1	14	0	23.32	23.85	23.97
				8	0	1	23.18	23.58	23.65
	8			4	1	23.20	23.60	23.66	
	8			7	1	23.21	23.59	23.68	
	15		0	1	23.21	23.55	23.68		
	16QAM		1	0	1	23.11	23.64	23.71	
			1	8	1	23.12	23.64	23.69	
			1	14	1	22.88	23.59	23.62	
			8	0	2	22.21	22.41	22.56	
			8	4	2	22.09	22.43	22.49	
			8	7	2	22.17	22.44	22.59	
	15		0	2	22.01	22.37	22.51		
	5		QPSK	1	0	0	23.58	23.66	24.03
				1	12	0	23.62	23.90	24.10
				1	24	0	23.53	23.88	23.93
				12	0	1	23.21	23.58	23.60
		12		7	1	23.21	23.60	23.61	
		12		13	1	23.26	23.59	23.60	
		25	0	1	23.20	23.57	23.68		
		16QAM	1	0	1	22.99	23.55	23.33	
			1	12	1	22.96	23.55	23.51	
			1	24	1	22.95	23.67	23.81	
			12	0	2	22.07	22.39	22.50	
			12	7	2	22.02	22.40	22.52	
			12	13	2	22.02	22.39	22.51	
		25	0	2	22.09	22.38	22.62		
		10	QPSK	1	0	0	23.28	23.77	24.05
				1	25	0	23.34	23.77	24.06
				1	49	0	23.38	23.71	23.91
				25	0	1	23.16	23.58	23.68
	25			12	1	23.23	23.59	23.68	
	25			25	1	23.24	23.63	23.65	
	50		0	1	23.23	23.59	23.65		
	16QAM		1	0	1	23.16	23.65	23.70	
			1	25	1	23.20	23.68	23.63	
			1	49	1	23.16	23.63	23.60	
			25	0	2	22.09	22.46	22.58	
			25	12	2	22.14	22.48	22.61	
25			25	2	22.11	22.40	22.60		
50	0		2	22.17	22.47	22.56			

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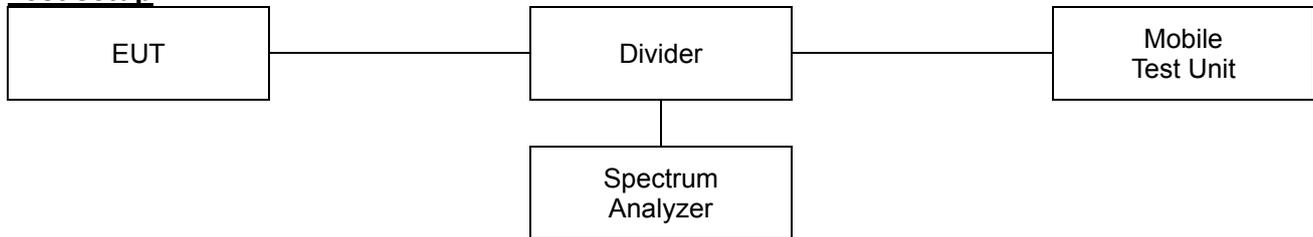
Page (13) of (61)



Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 4/66	15	QPSK	1	0	0	23.71	23.81	24.29
			1	36	0	23.79	23.79	24.26
			1	74	0	23.85	23.95	24.25
			36	0	1	23.26	23.54	23.69
			36	18	1	23.29	23.51	23.68
			36	37	1	23.28	23.54	23.69
			75	0	1	23.26	23.59	23.74
		16QAM	1	0	1	23.05	23.48	23.69
			1	36	1	23.13	23.56	23.66
			1	74	1	23.16	23.59	23.67
			36	0	2	22.13	22.45	22.59
			36	18	2	22.11	22.47	22.58
			36	37	2	22.15	22.46	22.57
			75	0	2	22.14	22.45	22.59
	20	QPSK	1	0	0	23.85	24.05	24.09
			1	49	0	23.70	24.01	24.07
			1	99	0	23.68	24.01	24.06
			50	0	1	23.41	23.67	23.76
			50	24	1	23.31	23.59	23.65
			50	50	1	23.27	23.58	23.71
			100	0	1	23.26	23.56	23.70
		16QAM	1	0	1	23.28	23.72	23.71
			1	49	1	23.33	23.75	23.70
			1	99	1	23.33	23.71	23.75
			50	0	2	22.11	22.41	22.55
			50	24	2	22.15	22.39	22.58
			50	50	2	22.16	22.43	22.57
			100	0	2	22.17	22.48	22.58

7.2. 99% Occupied Bandwidth & 26 dB Bandwidth

Test setup



Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

Test procedure

971168 D01 v03r01 – Section 4.2 and 4.3
ANSI C63.26-2015 – Section 5.4.3 and 5.4.4

Test settings

◆ 26dB Bandwidth

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- f) Determine the reference value by either of the following:
 - 1) Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
 - 2) Set the EUT to transmit an unmodulated carrier. Set the spectrum analyzer marker to the level of the carrier.
- g) Determine the “-X dB amplitude” as equal to (Reference Value - X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- h) If the reference value was determined using an unmodulated carrier, turn the EUT modulation on, then either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise the trace from step f) shall be used for step i).

- i) Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB amplitude” determined in step f). If a marker is below this “-X dB amplitude” value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- j) The spectral envelope can cross the “-X dB amplitude” at multiple points. The lowest or highest frequency shall be selected as the frequencies that are the farthest away from the center frequency at which the spectral envelope crosses the “-X dB amplitude.”
- k) The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

◆ 99% Occupied Bandwidth

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of $1.5 \times \text{OBW}$ is sufficient).
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- d) Set the detection mode to peak, and the trace mode to max-hold.
- e) If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.
- f) The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

Notes:

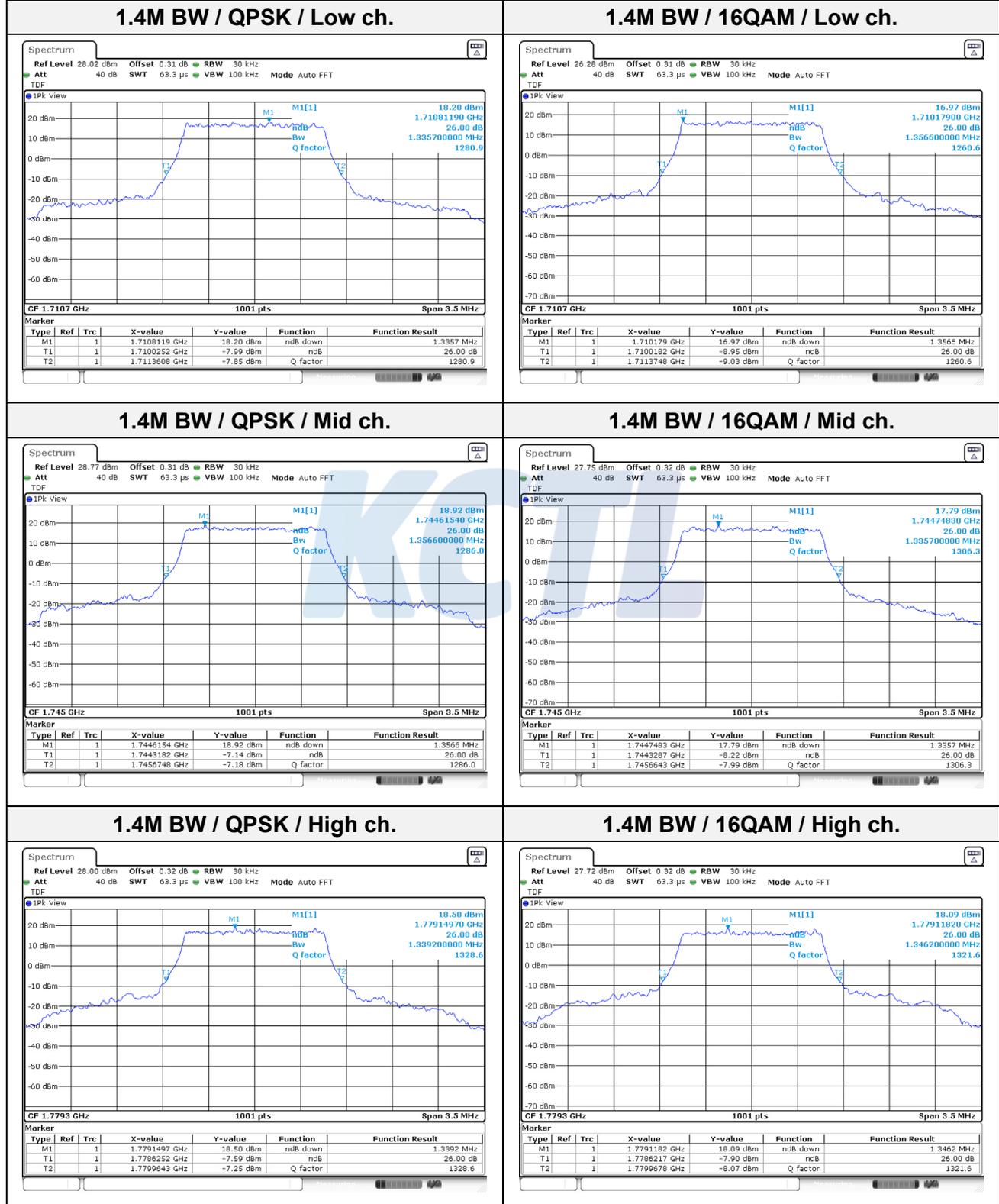
1. The EUT was setup to maximum output power as its lowest and highest channel with all bandwidth, Modulation.

Test results

Test Band	Bandwidth (MHz)	Frequency (MHz)	Test mode	26dB bandwidth (MHz)	99 % bandwidth (MHz)
LTE Band 4/66	1.4	1710.7	QPSK	1.34	1.10
			16QAM	1.36	1.10
		1745.0	QPSK	1.36	1.10
			16QAM	1.34	1.10
		1779.3	QPSK	1.34	1.10
			16QAM	1.35	1.11
	3	1711.5	QPSK	3.10	2.70
			16QAM	3.14	2.71
		1745.0	QPSK	3.12	2.71
			16QAM	3.09	2.71
		1778.5	QPSK	3.14	2.70
			16QAM	3.12	2.71
	5	1712.5	QPSK	5.38	4.52
			16QAM	5.36	4.52
		1745.0	QPSK	5.42	4.52
			16QAM	5.43	4.53
		1777.5	QPSK	5.38	4.53
			16QAM	5.32	4.55
	10	1715.0	QPSK	10.24	8.99
			16QAM	10.24	9.02
		1745.0	QPSK	10.19	9.02
			16QAM	10.12	9.02
		1775.0	QPSK	10.34	8.99
			16QAM	10.22	9.02
15	1717.5	QPSK	15.29	13.49	
		16QAM	15.17	13.52	
	1745.0	QPSK	15.06	13.52	
		16QAM	15.29	13.45	
	1772.5	QPSK	15.47	13.52	
		16QAM	15.36	13.52	
20	1720.0	QPSK	20.08	18.03	
		16QAM	19.78	18.13	
	1745.0	QPSK	20.03	17.98	
		16QAM	19.83	17.93	
	1770.0	QPSK	20.03	18.03	
		16QAM	20.03	18.03	

26dB Bandwidth

Test mode: LTE Band 4/66



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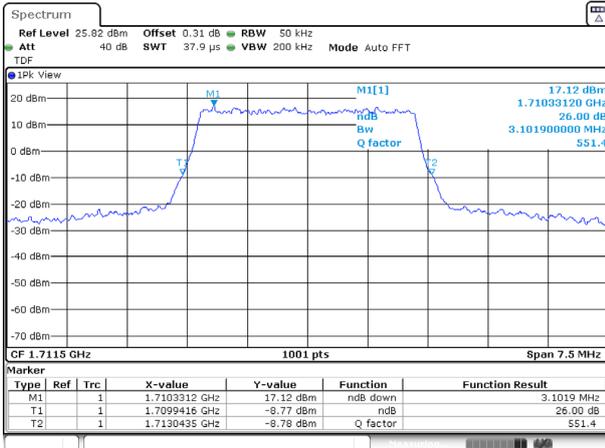
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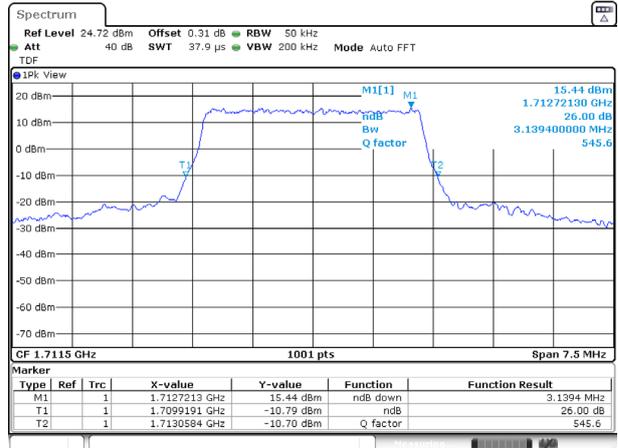
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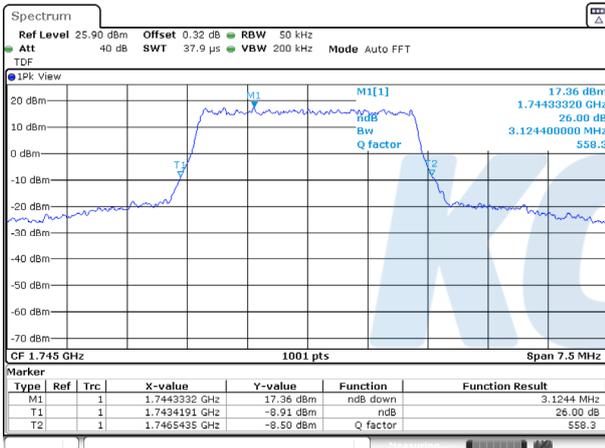
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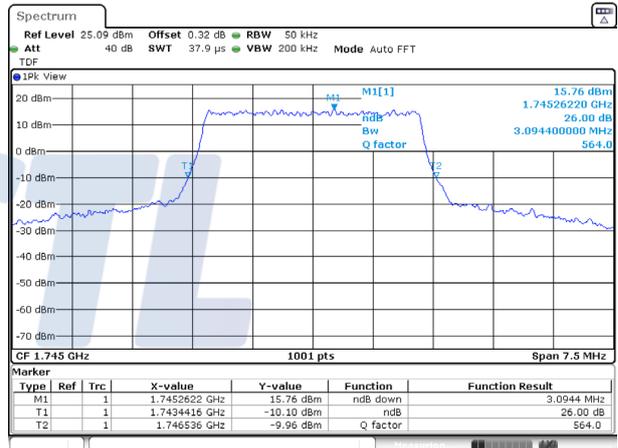
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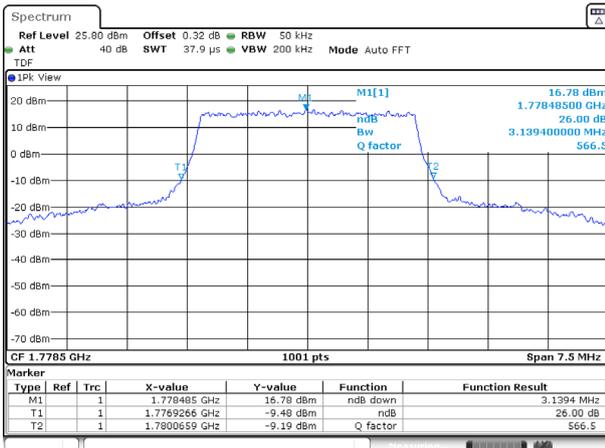
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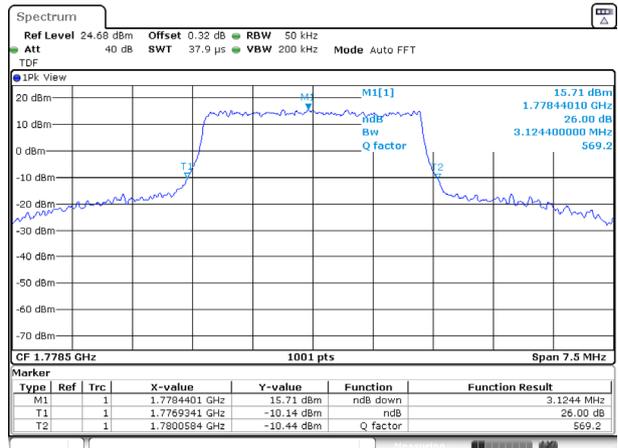
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3M BW / 16QAM / High ch.



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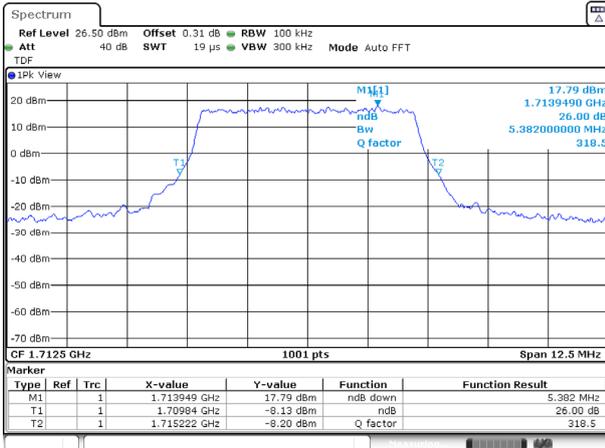
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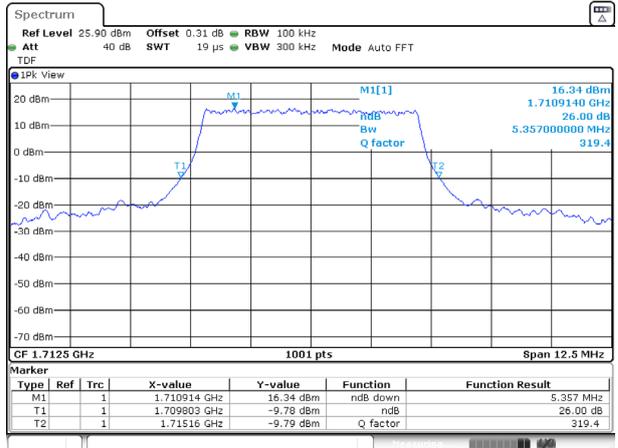
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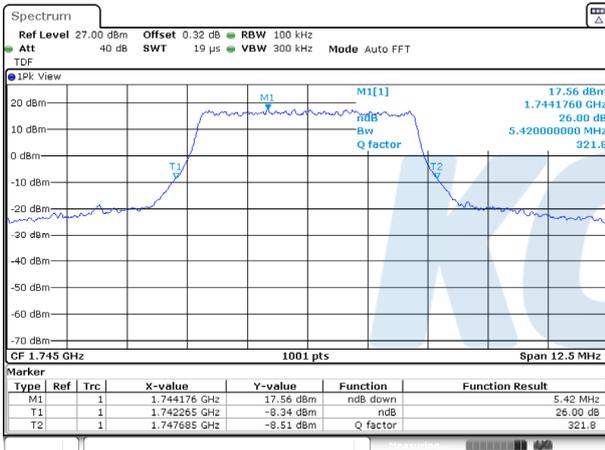
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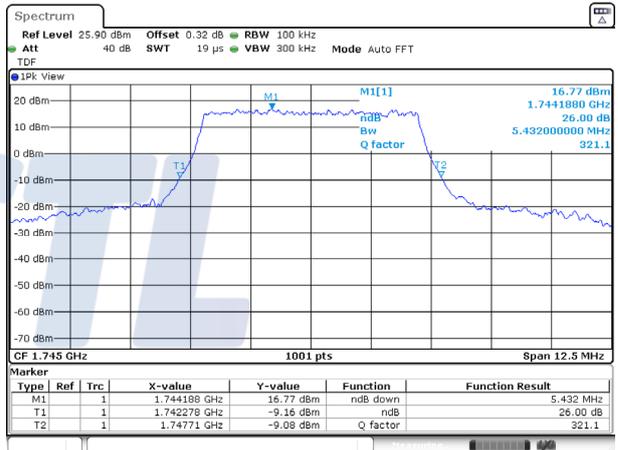
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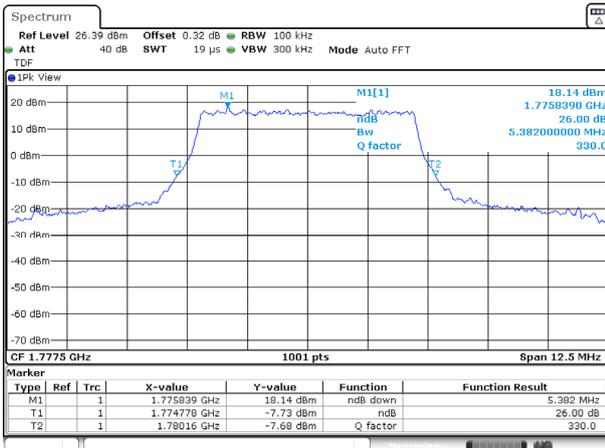
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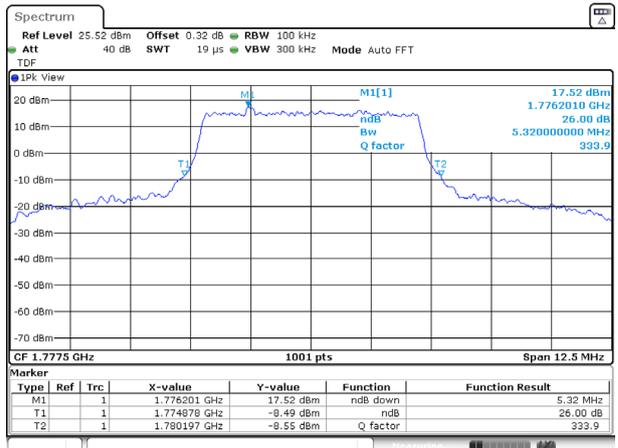
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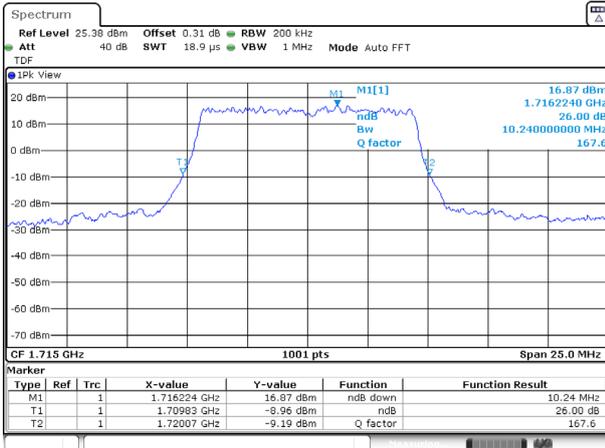
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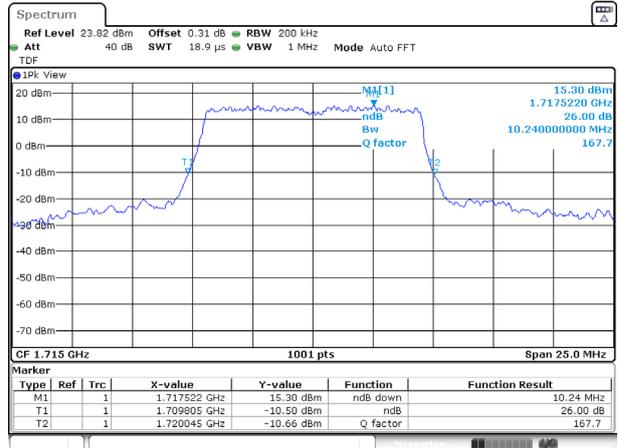
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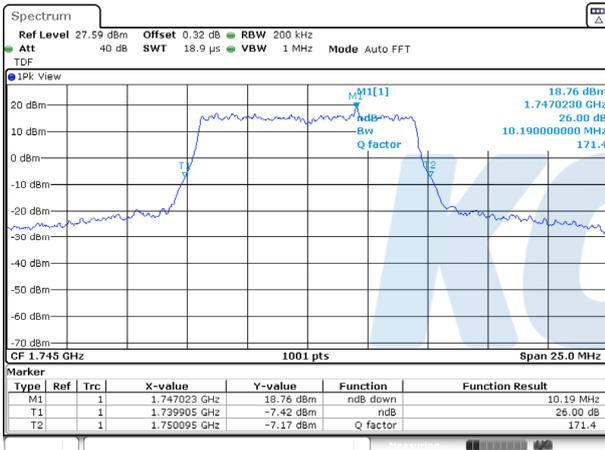
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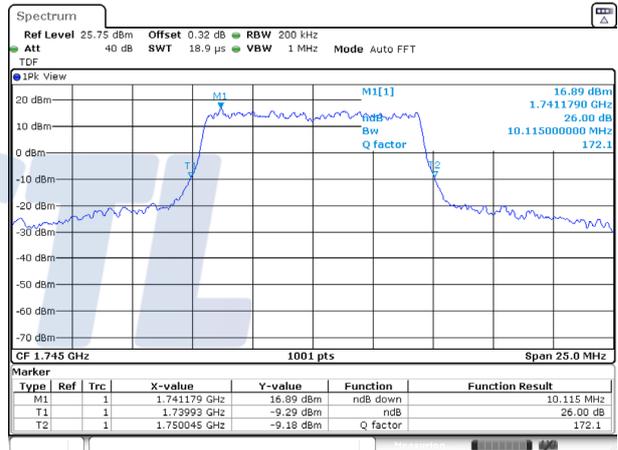
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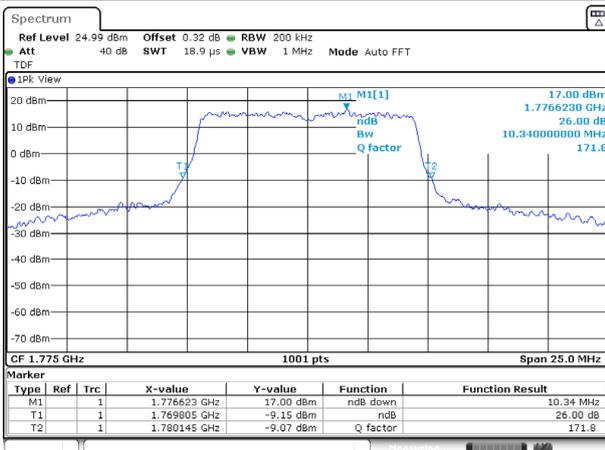
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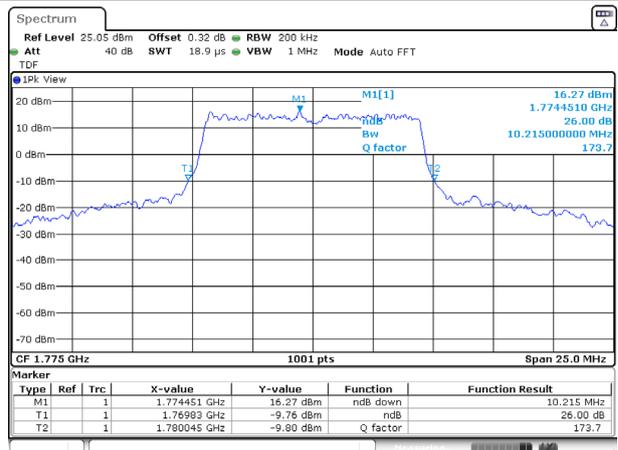
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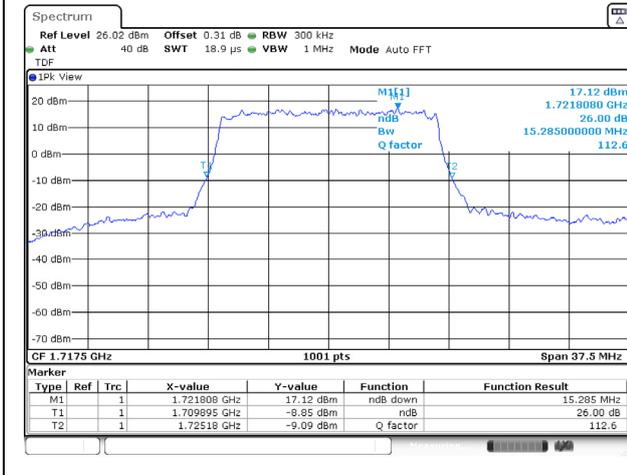
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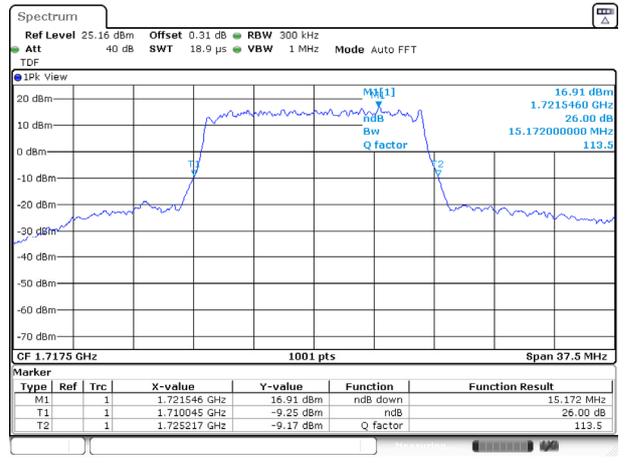
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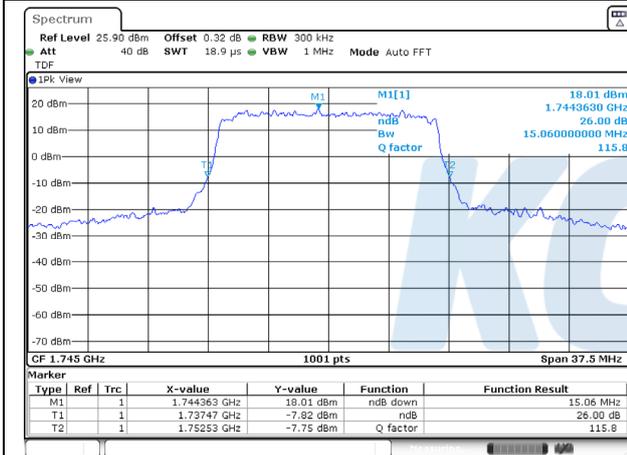
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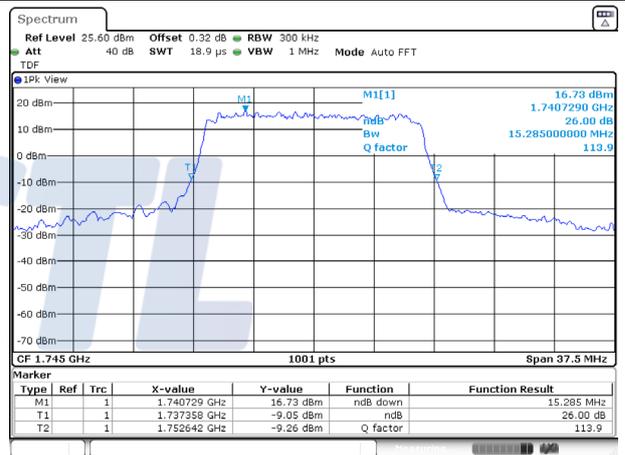
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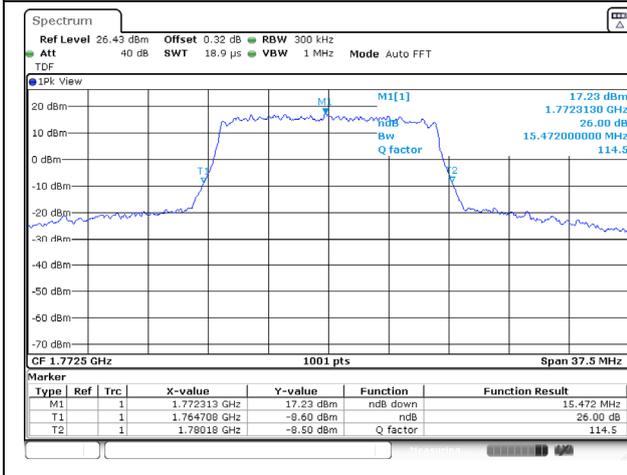
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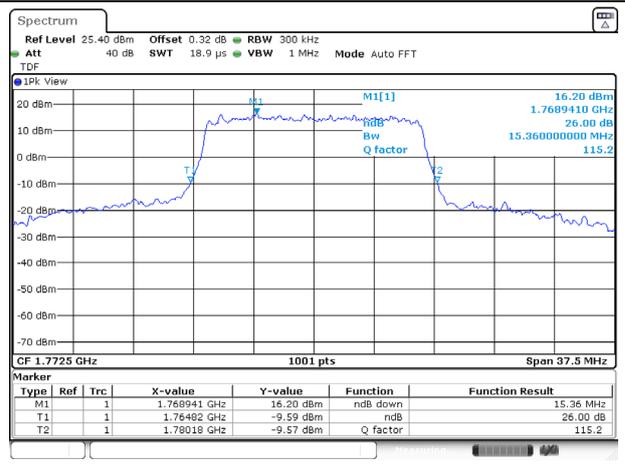
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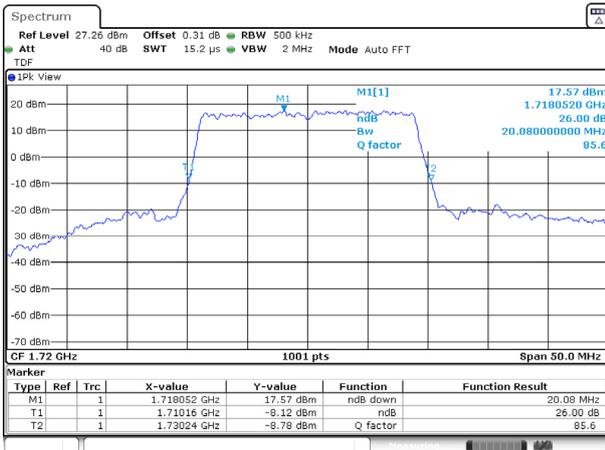
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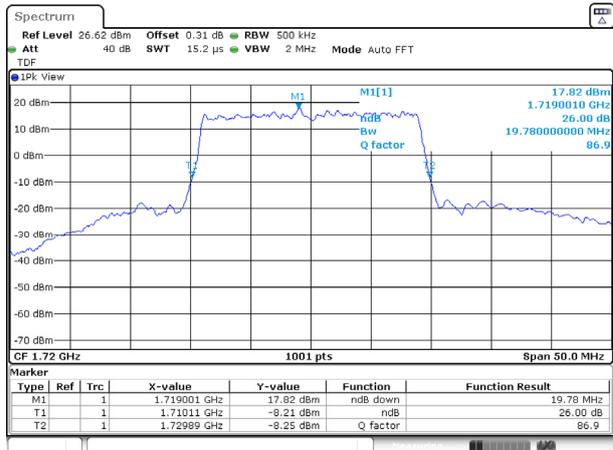
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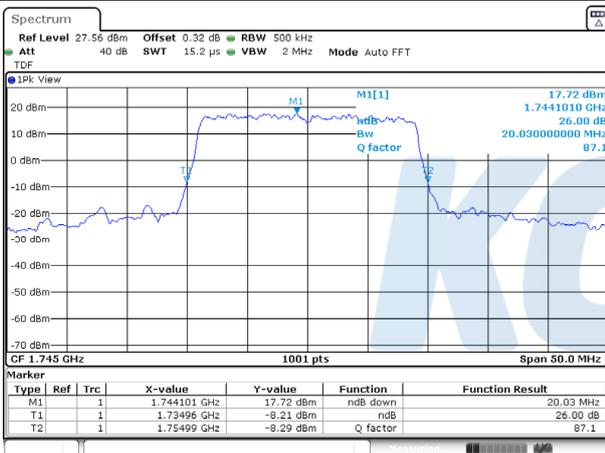
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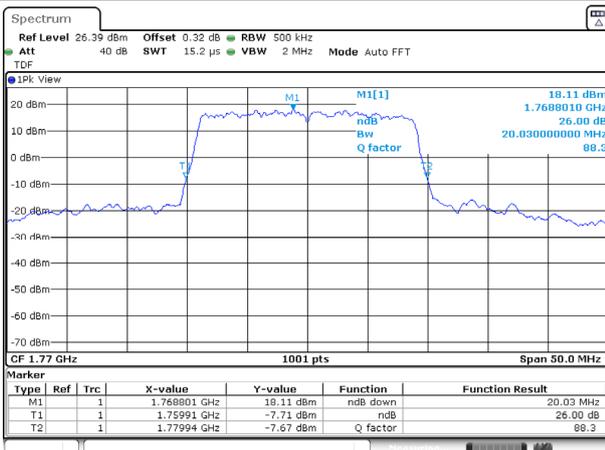
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