



TEST REPORT

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	Report No.: KR19-SRF0097-B Page (1) of (184)				
1. Client ◦ Name : Samsung Electronics Co., Ltd. ◦ Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea ◦ Date of Receipt : 2019-06-17 2. Use of Report : - 3. Name of Product and Model : Smart Wearable / SM-R835U 4. Manufacturer and Country of Origin : Samsung Electronics Co., Ltd. / Korea 5. FCC ID : A3LSMR835 6. IC Certification No. : 649E-SMR835 7. Date of Test : 2019-06-27 to 2019-08-13 8. Test Standards : FCC Part 2 / RSS-Gen Issue 5 FCC Part 22 subpart H / RSS-132 Issue 3 FCC Part 24 subpart E / RSS-133 Issue 6 FCC Part 27 subpart C / RSS-130 Issue 2, RSS-139 Issue 3 9. Test Results : Refer to the test result in the test report					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center; vertical-align: middle;">Affirmation</td> <td style="width: 40%; padding: 5px;"> Tested by Name : Kwonse Kim (Signature) </td> <td style="width: 45%; padding: 5px;"> Technical Manager Name : Seungyong Kim (Signature) </td> </tr> </table> 2019-08-13 KCTL Inc. As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by KCTL Inc.			Affirmation	Tested by Name : Kwonse Kim (Signature)	Technical Manager Name : Seungyong Kim (Signature)
Affirmation	Tested by Name : Kwonse Kim (Signature)	Technical Manager Name : Seungyong Kim (Signature)			

Report revision history

Date	Revision	Page No
2019-07-29	Initial report	-
2019-08-08	Updated	5
2019-08-13	Retest	173

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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.
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Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
VCCI Registration No. : R-3327, G-198, C-3706, T-1849
Industry Canada Registration No. : 8035A
KOLAS No.: KT231

2. Device information

Equipment under test : Smart Wearable
Model : SM-R835U
Derivative model : SM-R835F
Frequency range : Bluetooth(BDR/EDR/BLE)_2 402 MHz ~ 2 480 MHz
WIFI(802.11b/g/n20)_2 412 MHz ~ 2 472 MHz
LTE Band 12_699.7 MHz ~ 715.3 MHz
LTE Band 13_779.5 MHz ~ 784.5 MHz
LTE Band 5_824.7 MHz ~ 848.3 MHz
LTE Band 26_824.7 MHz ~ 848.3 MHz, 814.7 MHz ~ 823.3 MHz
LTE Band 4_1 710.7 MHz ~ 1 754.3 MHz
LTE Band 66_1 710.7 MHz ~ 1 779.3 MHz
LTE Band 2_1 850.7 MHz ~ 1 909.3 MHz
LTE Band 25_1 850.7 MHz ~ 1 914.3 MHz
WCDMA 850_826.4 MHz ~ 846.6 MHz
WCDMA 1700_1 712.4 MHz ~ 1 752.6 MHz
WCDMA 1900_1 852.4 MHz ~ 1 907.6 MHz
Modulation technique : Bluetooth(BDR/EDR)_ GFSK, $\pi/4$ DQPSK, 8DPSK
Bluetooth(BLE)_GFSK
WIFI(802.11b/g/n20)_DSSS, OFDM
LTE_QPSK, 16QAM
WCDMA_QPSK
Number of channels : Bluetooth(BDR/EDR)_79 ch
Bluetooth(BLE)_40 ch
WIFI(802.11b/g/n20)_13 ch
Power source : DC 3.85 V

Antenna specification : LTE/WCDMA_PIFA (Housing metal) Antenna
 WIFI/Bluetooth(BDR/EDR/BLE)_LDS Antenna
 Antenna gain : WIFI/Bluetooth(BDR/EDR/BLE) : -6.4 dBi
 Software version : R835U.001
 Hardware version : REV1.0
 Test device serial No. : Conducted(R3AM6002T0W, R3AM600ZPAT),
 Radiated(R3AM600ZJNZ, R3AM600ZJPB, R3AM600ZJJF,
 R3AM600NE0B, R3AM600NEDH, R3AM600NEJZ, R3AM600NFWP)
 R3AM6002T0W)
 Operation temperature : -30 °C ~ 50 °C

2.1. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source	FCC ID & IC
Wireless charger	Samsung Electronics Co., Ltd.	EP-OR825	-	DC 5.0 V, 1.0 A	A3LEPOR825 / 649E-EPOR825

2.2. Information about derivative model

The difference between basic model and derivative models is:

Hardware is identical with the basic model and software is as follows.

- a. For the model SM-R835U:
 - 3G(B2,B4,B5), 4G(B2,B4,B5,B12,B13,B25,B26,B66) are enabled by software.
- b. For the model SM-R835F:
 - 3G(B2,B4), 4G(B2,B4,B12,B13,B25,B26,B66) are disabled by software.
 - 3G(B1,B8), 4G(B1,B3,B7,B8,B20) are enabled by software.
- c. In USA, 4G(B7) disabled by MCC code. Because device doesn't support B7 roaming in USA.
- d. All other protocol part is same and all other features of Volte, SUPL is same.

2.3. Frequency/channel operations

This device contains the following capabilities:

Bluetooth(BDR/EDR/BLE), WIFI(802.11b/g/n20),
 LTE Band 12, LTE Band 13, LTE Band 5, LTE Band 26, LTE Band 4, LTE Band 66, LTE Band 2
 LTE Band 25, WCDMA 850, WCDMA 1700, WCDMA 1900

LTE Band 26(814 - 849 MHz) overlaps the entire frequency range of LTE Band 5(824 - 849 MHz).
 Therefore, test data provided in this report covers Band 5 and the portion of Band 26 subpart to Part22.

LTE Band 66(1 710 - 1 780 MHz) overlaps the entire frequency range of LTE Band 4(1 710 - 1 755 MHz).
 Therefore, test data provided in this report covers Band 4 as well as Band 66.

LTE Band 25(1 850 - 1 915 MHz) overlaps the entire frequency range of LTE Band 2(1 850 - 1 910 MHz).
 Therefore, test data provided in this report covers Band 2 as well as Band 25.

LTE Band 12

Ch.	Frequency (MHz)
23017	699.7
23095	707.5
23173	715.3

Table 2.3.1. 1.4M BW

Ch.	Frequency (MHz)
23025	700.5
23095	707.5
23165	714.5

Table 2.3.2. 3M BW

Ch.	Frequency (MHz)
23035	701.5
23095	707.5
23155	713.5

Table 2.3.3. 5M BW

Ch.	Frequency (MHz)
23060	704.0
23095	707.5
23130	711.0

Table 2.3.4. 10M BW

LTE Band 13

Ch.	Frequency (MHz)
23205	779.5
23230	782.0
23255	784.5

Table 2.3.5. 5M BW

Ch.	Frequency (MHz)
-	-
23230	782.0
-	-

Table 2.3.6. 10M BW

LTE Band 5

Ch.	Frequency (MHz)
20407	824.7
20525	836.5
20643	848.3

Table 2.3.7. 1.4M BW

Ch.	Frequency (MHz)
20415	825.5
20525	836.5
20635	847.5

Table 2.3.8. 3M BW

Ch.	Frequency (MHz)
20425	826.5
20525	836.5
20625	846.5

Table 2.3.9. 5M BW

Ch.	Frequency (MHz)
20450	829.0
20525	836.5
20600	844.0

Table 2.3.10. 10M BW

LTE Band 26

Ch.	Frequency (MHz)
26797	824.7
26915	836.5
27033	848.3

Table 2.3.11. 1.4M BW

Ch.	Frequency (MHz)
26805	825.5
26915	836.5
27025	847.5

Table 2.3.12. 3M BW

Ch.	Frequency (MHz)
26815	826.5
26915	836.5
27015	846.5

Table 2.3.13. 5M BW

Ch.	Frequency (MHz)
26840	829.0
26915	836.5
26990	844.0

Table 2.3.14. 10M BW

Ch.	Frequency (MHz)
26865	831.5
-	-
26965	841.5

Table 2.3.15. 15M BW

LTE Band 4

Ch.	Frequency (MHz)
19957	1 710.7
20175	1 732.5
20393	1 754.3

Table 2.3.16. 1.4M BW

Ch.	Frequency (MHz)
19965	1 711.5
20175	1 732.5
20385	1 753.5

Table 2.3.17. 3M BW

Ch.	Frequency (MHz)
19975	1 712.5
20175	1 732.5
20375	1 752.5

Table 2.3.18. 5M BW

Ch.	Frequency (MHz)
20000	1 715.0
20175	1 732.5
20350	1 750.0

Table 2.3.19. 10M BW

Ch.	Frequency (MHz)
20025	1 717.5
20175	1 732.5
20325	1 747.5

Table 2.3.20. 15M BW

Ch.	Frequency (MHz)
20050	1 720.0
20175	1 732.5
20300	1 745.0

Table 2.3.21. 20M BW

LTE Band 66

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

Table 2.3.22. 1.4M BW

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

Table 2.3.23. 3M BW

Ch.	Frequency (MHz)
131997	1 712.5
132322	1 745.0
132647	1 777.5

Table 2.3.24. 5M BW

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

Table 2.3.25. 10M BW

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

Table 2.3.26. 15M BW

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

Table 2.3.27. 20M BW

LTE Band 2

Ch.	Frequency (MHz)
18607	1 850.7
18900	1 880.0
19193	1 909.3

Table 2.3.28. 1.4M BW

Ch.	Frequency (MHz)
18615	1 851.5
18900	1 880.0
19185	1 908.5

Table 2.3.29. 3M BW

Ch.	Frequency (MHz)
18625	1 852.5
18900	1 880.0
19175	1 907.5

Table 2.3.30. 5M BW

Ch.	Frequency (MHz)
18650	1 855.0
18900	1 880.0
19150	1 905.0

Table 2.3.31. 10M BW

Ch.	Frequency (MHz)
18675	1 857.5
18900	1 880.0
19125	1 902.5

Table 2.3.32. 15M BW

Ch.	Frequency (MHz)
18700	1 860.0
18900	1 880.0
19100	1 900.0

Table 2.3.33. 20M BW

LTE Band 25

Ch.	Frequency (MHz)
26047	1 850.7
26365	1 882.5
26683	1 914.3

Table 2.3.34. 1.4M BW

Ch.	Frequency (MHz)
26055	1 851.5
26365	1 882.5
26675	1 913.5

Table 2.3.35. 3M BW

Ch.	Frequency (MHz)
26065	1 852.5
26365	1 882.5
26665	1 912.5

Table 2.3.36. 5M BW

Ch.	Frequency (MHz)
26090	1 855.0
26365	1 882.5
26640	1 910.0

Table 2.3.37. 10M BW

Ch.	Frequency (MHz)
26115	1 857.5
26365	1 882.5
26615	1 907.5

Table 2.3.38. 15M BW

Ch.	Frequency (MHz)
26140	1 860.0
26365	1 882.5
26590	1 905.0

Table 2.3.39. 20M BW

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3. Maximum ERP/EIRP power

LTE Band 12/13

Mode	Tx frequency (MHz)	Emission designator	ERP	
			Max. power (dBm)	Max. power (W)
LTE Band 12	699.7 ~ 715.3	1M10G7D	9.44	0.009
		1M10W7D	8.05	0.006
	700.5 ~ 714.5	2M72G7D	9.27	0.008
		2M71W7D	7.72	0.006
	701.5 ~ 713.5	4M55G7D	9.96	0.010
		4M53W7D	8.78	0.008
	704.0 ~ 711.0	8M99G7D	9.59	0.009
		9M04W7D	8.45	0.007
LTE Band 13	779.5 ~ 784.5	4M52G7D	14.34	0.027
		4M53W7D	13.10	0.020
	782.0	8M94G7D	14.69	0.029
		8M94W7D	13.47	0.022

LTE Band 5

Mode	Tx frequency (MHz)	Emission designator	ERP		EIRP	
			Max. power (dBm)	Max. power (W)	Max. power (dBm)	Max. power (W)
LTE Band 5	824.7 ~ 848.3	1M10G7D	10.58	0.011	12.73	0.019
		1M10W7D	9.35	0.009	11.50	0.014
	825.5 ~ 847.5	2M72G7D	8.78	0.008	10.93	0.012
		2M70W7D	7.89	0.006	10.04	0.010
	826.5 ~ 846.5	4M55G7D	8.85	0.008	11.00	0.013
		4M53W7D	7.83	0.006	9.98	0.010
	829.0 ~ 844.0	8M99G7D	8.99	0.008	11.14	0.013
		8M99W7D	7.99	0.006	10.14	0.010

LTE Band 26

Mode	Tx frequency (MHz)	Emission designator	ERP		EIRP	
			Max. power (dBm)	Max. power (W)	Max. power (dBm)	Max. power (W)
LTE Band 26	824.7 ~ 848.3	1M10G7D	11.86	0.015	14.01	0.025
		1M10W7D	9.76	0.009	11.91	0.016
	825.5 ~ 847.5	2M72G7D	11.12	0.013	13.27	0.021
		2M70W7D	9.82	0.010	11.97	0.016
	826.5 ~ 846.5	4M55G7D	9.75	0.009	11.90	0.015
		4M53W7D	8.41	0.007	10.56	0.011
	829.0 ~ 844.0	8M99G7D	9.72	0.009	11.87	0.015
		8M99W7D	8.42	0.007	10.57	0.011
	831.5 ~ 841.5	13M5G7D	9.43	0.009	11.58	0.014
		13M5W7D	8.35	0.007	10.50	0.011

LTE Band 4

Mode	Tx frequency (MHz)	Emission designator	EIRP	
			Max. power (dBm)	Max. power (W)
LTE Band 4	1 710.7 ~ 1 754.3	1M10G7D	14.86	0.031
		1M10W7D	13.46	0.022
	1 711.5 ~ 1 753.5	2M71G7D	15.53	0.036
		2M72W7D	14.21	0.026
	1 712.5 ~ 1 752.5	4M53G7D	15.49	0.035
		4M55W7D	14.34	0.027
	1 715.0 ~ 1 750.0	9M04G7D	15.35	0.034
		9M02W7D	13.97	0.025
	1 717.5 ~ 1 747.5	13M5G7D	15.28	0.034
		13M5W7D	13.73	0.024
	1 720.0 ~ 1 745.0	18M0G7D	15.06	0.032
		18M0W7D	13.52	0.022

LTE Band 66

Mode	Tx frequency (MHz)	Emission designator	EIRP	
			Max. power (dBm)	Max. power (W)
LTE Band 66	1 710.7 ~ 1 779.3	1M10G7D	14.64	0.029
		1M11W7D	13.85	0.024
	1 711.5 ~ 1 778.5	2M71G7D	15.16	0.033
		2M72W7D	14.30	0.027
	1 712.5 ~ 1 777.5	4M55G7D	15.19	0.033
		4M55W7D	13.93	0.025
	1 715.0 ~ 1 775.0	9M04G7D	13.66	0.023
		9M02W7D	12.53	0.018
	1 717.5 ~ 1 772.5	13M5G7D	15.02	0.032
		13M6W7D	13.89	0.024
	1 720.0 ~ 1 770.0	18M0G7D	15.00	0.032
		18M0W7D	13.78	0.024

LTE Band 2

Mode	Tx frequency (MHz)	Emission designator	EIRP	
			Max. power (dBm)	Max. power (W)
LTE Band 2	1 850.7 ~ 1 909.3	1M11G7D	20.72	0.118
		1M10W7D	18.80	0.076
	1 851.5 ~ 1 908.5	2M71G7D	20.40	0.110
		2M70W7D	19.36	0.086
	1 852.5 ~ 1 907.5	4M53G7D	20.06	0.101
		4M53W7D	18.86	0.077
	1 855.0 ~ 1 905.0	9M02G7D	20.44	0.111
		8M99W7D	19.12	0.082
	1 857.5 ~ 1 902.5	13M5G7D	20.15	0.104
		13M5W7D	18.87	0.077
	1 860.0 ~ 1 900.0	18M0G7D	20.09	0.102
		18M1W7D	19.00	0.079

LTE Band 25

Mode	Tx frequency (MHz)	Emission designator	EIRP	
			Max. power (dBm)	Max. power (W)
LTE Band 25	1 850.7 ~ 1 914.3	1M11G7D	19.51	0.089
		1M12W7D	18.69	0.074
	1 851.5 ~ 1 913.5	2M72G7D	19.70	0.093
		2M71W7D	18.23	0.067
	1 852.5 ~ 1 912.5	4M53G7D	18.89	0.077
		4M53W7D	18.11	0.065
	1 855.0 ~ 1 910.0	9M02G7D	19.74	0.094
		8M99W7D	18.31	0.068
	1 857.5 ~ 1 907.5	13M5G7D	18.15	0.065
		13M5W7D	17.17	0.052
	1 860.0 ~ 1 905.0	18M0G7D	20.01	0.100
		18M1W7D	18.83	0.076

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4. Summary of tests

FCC Part section(s)	RSS Section(s)	Parameter	Test results
2.1046 22.913(a)(5) 24.232(c) 27.50(h)	RSS-Gen(6.12) RSS-130(4.6) RSS-132(5.4) RSS-133(4.1) RSS-139(4.1)	Conducted Output Power	Pass
2.1049	RSS-Gen(6.7) RSS-133(2.3)	Occupied Bandwidth & 26 dB Bandwidth	Pass
2.1051 22.917(a) 24.238(a) 27.53(c)(2)(4) 27.53(g),(h)	RSS-130(4.7) RSS-132(5.5) RSS-133(6.5) RSS-139(6.6)	Band Edge Emissions at Antenna Terminal	Pass
		Spurious Emissions at Antenna Terminal	Pass
24.232(d) 27.50(d)(5)	RSS-130(4.6) RSS-132(5.4) RSS-133(6.4) RSS-139(6.5)	Peak to Average Power Ratio	Pass
2.1055 22.355 24.235 27.54	RSS-130(4.5) RSS-132(5.3) RSS-133(6.3) RSS-139(6.4)	Frequency stability	Pass
22.913(a)(5) 24.232(c) 27.50(b)(10) 27.50(c)(10) 27.50(d)(4)	RSS-130(4.6) RSS-132(5.4) RSS-133(6.4) RSS-139(6.5)	Effective Radiated Power & Equivalent Isotropic Radiated Power	Pass
2.1053 22.917(a) 24.238(a) 27.53(c)(2)(4) 27.53(f),(g),(h)	RSS-130(4.7) RSS-132(5.5) RSS-133(6.5) RSS-139(6.6)	Radiated Spurious Emissions	Pass

Notes:

- 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 the radiated tests have been performed two modes (with charger and without charger)
- For LTE Band 12, Band 13, Band 5, Band 26, the fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that **X** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **X** orientation. For ERP/EIRP tests, these bands were performed with charger for evaluation of worst case mode.
- For LTE Band 4, Band 66, Band 2, Band 25, 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. For ERP/EIRP tests, these bands were performed without charger for evaluation of worst case mode.
- 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

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 indicated 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	1.76 dB	
Conducted spurious emissions	4.03 dB	
Radiated spurious emissions	9 kHz ~ 30 MHz:	2.28 dB
	30 MHz ~ 1 GHz	3.68 dB
	Above 1 GHz	5.72 dB

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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	6.20	11 000	8.82
50	6.29	12 000	8.83
100	6.36	13 000	8.58
200	6.47	14 000	8.91
300	6.67	15 000	9.08
400	6.85	16 000	9.10
500	7.02	17 000	9.13
600	7.11	18 000	9.15
700	7.15	19 000	9.35
800	7.26	20 000	9.46
900	7.38	21 000	9.50
1 000	7.79	22 000	9.49
2 000	8.36	23 000	9.68
3 000	8.46	24 000	9.93
4 000	8.45	25 000	10.12
5 000	8.47	26 000	11.03
6 000	8.54	26 500	11.58
7 000	8.60	27 000	11.95
8 000	8.61	28 000	12.12
9 000	8.70	29 000	12.39
10 000	8.76	30 000	13.05

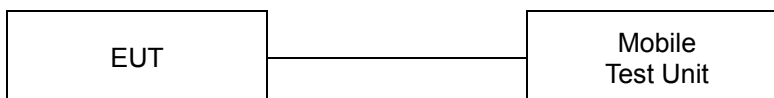
Note.

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.

Notes:

Offset(dB) = RF cable loss(dB)

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**Test results**

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 12	1.4	QPSK	1	0	0	22.51	22.50	22.50
			1	3	0	22.49	22.49	22.47
			1	5	0	22.47	22.42	22.44
			3	0	0	22.45	22.44	22.43
			3	1	0	22.45	22.40	22.42
			3	3	0	22.43	22.39	22.43
			6	0	1	21.48	21.42	21.47
		16QAM	1	0	1	21.53	21.45	21.67
			1	3	1	21.50	21.41	21.62
			1	5	1	21.33	21.42	21.46
			3	0	1	21.46	21.36	21.56
			3	1	1	21.48	21.35	21.55
			3	3	1	21.50	21.33	21.54
	3	QPSK	6	0	2	20.50	20.36	20.42
			1	0	0	22.46	22.50	22.49
			1	8	0	22.40	22.47	22.47
			1	14	0	22.40	22.48	22.48
			8	0	1	21.45	21.42	21.49
			8	4	1	21.44	21.41	21.46
		16QAM	8	7	1	21.42	21.40	21.44
			15	0	1	21.55	21.56	21.42
			1	0	1	21.56	21.62	21.70
			1	8	1	21.46	21.56	21.53
			1	14	1	21.49	21.46	21.45
			8	0	2	20.63	20.46	20.63
	5	QPSK	8	4	2	20.60	20.44	20.58
			8	7	2	20.56	20.44	20.51
			15	0	2	20.54	20.51	20.46
			1	0	0	22.57	22.54	22.46
			1	12	0	22.53	22.54	22.41
			1	24	0	22.53	22.53	22.36
		16QAM	12	0	1	21.67	21.53	21.41
			12	7	1	21.63	21.52	21.40
			12	13	1	21.60	21.51	21.37
			25	0	1	21.60	21.51	21.35
			1	0	1	21.69	21.47	21.48
			1	12	1	21.67	21.42	21.42
	10	QPSK	1	24	1	21.61	21.41	21.45
			12	0	2	20.68	20.60	20.40
			12	7	2	20.67	20.58	20.38
			12	13	2	20.63	20.56	20.32
			25	0	2	20.60	20.53	20.36
			1	0	0	22.58	22.55	22.52
		16QAM	1	25	0	22.50	22.52	22.51
			1	49	0	22.50	22.51	22.48
			25	0	1	21.59	21.46	21.56
			25	12	1	21.55	21.45	21.55
			25	25	1	21.50	21.42	21.51
			50	0	1	21.46	21.41	21.50
LTE Band 13	5	QPSK	1	0	1	21.53	21.47	21.65
			1	25	1	21.28	21.37	21.58
			1	49	1	21.38	21.38	21.60
			25	0	2	20.60	20.59	20.56
			25	12	2	20.55	20.57	20.55
			25	25	2	20.53	20.56	20.56
		16QAM	50	0	2	20.60	20.57	20.50
			1	0	0	22.36	22.43	22.42
			1	12	0	22.31	22.32	22.40
			1	24	0	22.21	22.26	22.38
			12	0	1	21.39	21.36	21.46
			12	7	1	21.36	21.35	21.43
	10	QPSK	12	13	1	21.32	21.33	21.41
			25	0	1	21.32	21.29	21.38
			1	0	1	21.74	21.40	21.37
			1	12	1	21.67	21.35	21.35
			1	24	1	21.61	21.36	21.34
			12	0	2	20.25	20.41	20.35
		16QAM	12	7	2	20.24	20.37	20.33
			12	13	2	20.23	20.33	20.35
			25	0	2	20.25	20.30	20.40
			1	0	0	-	22.44	-
			1	25	0	-	22.34	-
			1	49	0	-	22.36	-
		QPSK	25	0	1	-	21.47	-
			25	12	1	-	21.45	-
			25	25	1	-	21.44	-
			50	0	1	-	21.42	-
		16QAM	1	0	1	-	21.45	-
			1	25	1	-	21.42	-
			1	49	1	-	21.35	-
			25	0	2	-	20.54	-
			25	12	2	-	20.50	-
			25	25	2	-	20.45	-
			50	0	2	-	20.46	-

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Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 5	1.4	QPSK	1	0	0	22.65	22.63	22.51
			1	3	0	22.64	22.62	22.44
			1	5	0	22.63	22.60	22.44
			3	0	0	22.56	22.53	22.45
			3	1	0	22.55	22.50	22.44
			3	3	0	22.52	22.47	22.43
			6	0	1	21.53	21.51	21.42
		16QAM	1	0	1	21.47	21.60	21.50
			1	3	1	21.43	21.58	21.48
			1	5	1	21.40	21.55	21.31
			3	0	1	21.40	21.51	21.45
			3	1	1	21.36	21.47	21.44
			3	3	1	21.33	21.46	21.44
			6	0	2	20.54	20.60	20.46
	3	QPSK	1	0	0	22.68	22.65	22.53
			1	8	0	22.63	22.61	22.52
			1	14	0	22.60	22.60	22.49
			8	0	1	21.63	21.60	21.43
			8	4	1	21.63	21.59	21.42
			8	7	1	21.62	21.58	21.43
			15	0	1	21.68	21.63	21.52
		16QAM	1	0	1	21.75	21.66	21.49
			1	8	1	21.70	21.57	21.44
			1	14	1	21.69	21.63	21.43
			8	0	2	20.73	20.66	20.58
			8	4	2	20.68	20.63	20.55
			8	7	2	20.59	20.57	20.51
			15	0	2	20.69	20.57	20.43
	5	QPSK	1	0	0	22.70	22.62	22.49
			1	12	0	22.62	22.58	22.47
			1	24	0	22.62	22.56	22.47
			12	0	1	21.69	21.63	21.49
			12	7	1	21.66	21.62	21.46
			12	13	1	21.65	21.62	21.44
			25	0	1	21.67	21.66	21.43
		16QAM	1	0	1	21.68	21.55	21.46
			1	12	1	21.62	21.54	21.45
			1	24	1	21.59	21.52	21.42
			12	0	2	20.62	20.59	20.43
			12	7	2	20.62	20.57	20.42
			12	13	2	20.61	20.57	20.42
			25	0	2	20.62	20.53	20.46
	10	QPSK	1	0	0	22.76	22.70	22.69
			1	25	0	22.75	22.64	22.66
			1	49	0	22.75	22.66	22.66
			25	0	1	21.74	21.73	21.73
			25	12	1	21.70	21.70	21.72
			25	25	1	21.68	21.67	21.68
			50	0	1	21.67	21.72	21.70
		16QAM	1	0	1	21.78	21.97	21.51
			1	25	1	21.69	21.89	21.45
			1	49	1	21.66	21.69	21.33
			25	0	2	20.96	20.85	20.68
			25	12	2	20.91	20.81	20.66
			25	25	2	20.78	20.75	20.65
			50	0	2	20.85	20.83	20.82

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Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 26	1.4	QPSK	1	0	0	22.29	22.05	22.27
			1	3	0	22.15	21.99	22.15
			1	5	0	22.18	21.97	22.23
			3	0	0	22.24	21.94	22.20
			3	1	0	22.23	21.90	22.17
			3	3	0	22.23	21.88	22.15
			6	0	1	21.26	21.04	21.18
		16QAM	1	0	1	21.29	21.23	21.34
			1	3	1	21.15	21.15	21.24
			1	5	1	21.14	21.16	21.30
			3	0	1	21.22	21.19	21.15
			3	1	1	21.18	21.15	21.13
			3	3	1	21.11	21.12	21.10
			6	0	2	20.32	20.21	20.22
	3	QPSK	1	0	0	22.26	21.94	22.23
			1	8	0	22.22	21.90	22.21
			1	14	0	22.22	21.81	22.22
			8	0	1	21.18	20.81	21.17
			8	4	1	21.16	20.81	21.17
			8	7	1	21.15	20.80	21.16
			15	0	1	21.19	20.85	21.18
		16QAM	1	0	1	21.27	21.08	21.35
			1	8	1	21.20	21.00	21.27
			1	14	1	21.18	20.90	21.20
			8	0	2	20.10	19.81	20.20
			8	4	2	20.07	19.80	20.18
			8	7	2	20.05	19.76	20.16
			15	0	2	20.07	19.81	20.25
	5	QPSK	1	0	0	22.26	21.98	22.21
			1	12	0	22.17	21.87	22.06
			1	24	0	22.21	21.83	22.04
			12	0	1	21.21	20.80	21.09
			12	7	1	21.18	20.80	21.07
			12	13	1	21.14	20.81	21.05
			25	0	1	21.23	20.88	21.12
		16QAM	1	0	1	21.28	20.88	21.18
			1	12	1	21.23	20.85	21.11
			1	24	1	21.28	20.71	21.11
			12	0	2	20.08	19.82	20.04
			12	7	2	20.05	19.81	19.99
			12	13	2	20.03	19.79	19.96
			25	0	2	20.17	19.74	20.04
	10	QPSK	1	0	0	22.31	22.02	22.21
			1	25	0	22.23	22.00	22.20
			1	49	0	22.28	21.96	22.14
			25	0	1	21.21	21.07	21.13
			25	12	1	21.18	21.06	21.12
			25	25	1	21.14	21.00	21.13
			50	0	1	21.19	21.07	21.15
		16QAM	1	0	1	21.13	21.35	21.35
			1	25	1	21.05	21.18	21.31
			1	49	1	21.00	21.10	21.25
			25	0	2	20.24	20.09	20.19
			25	12	2	20.22	20.05	20.18
			25	25	2	20.17	19.94	20.17
			50	0	2	20.17	20.03	20.19
	15	QPSK	1	0	0	22.38	22.14	22.32
			1	36	0	22.29	22.04	22.31
			1	74	0	22.32	22.02	22.28
			36	0	1	21.34	21.18	21.33
			36	18	1	21.32	21.15	21.32
			36	37	1	21.30	21.14	21.31
			75	0	1	21.30	21.12	21.30
		16QAM	1	0	1	21.57	20.99	21.59
			1	36	1	21.36	20.98	21.53
			1	74	1	21.33	20.95	21.50
			36	0	2	20.40	20.20	20.30
			36	18	2	20.34	20.19	20.27
			36	37	2	20.20	20.18	20.26
			75	0	2	20.34	20.18	20.34

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						Frequency (MHz)		
						Low	Middle	High
LTE Band 4	1.4	QPSK	1	0	0	22.26	22.00	22.04
			1	3	0	22.11	21.94	22.00
			1	5	0	22.11	21.91	21.97
			3	0	0	22.09	21.91	21.91
			3	1	0	22.05	21.90	21.90
			3	3	0	22.03	21.90	21.89
			6	0	1	21.19	20.98	20.90
			1	0	1	21.52	21.17	20.90
		16QAM	1	3	1	21.39	21.07	20.87
			1	5	1	21.24	21.12	20.67
			3	0	1	21.18	21.11	20.85
			3	1	1	21.14	21.03	20.81
			3	3	1	21.09	20.94	20.76
			6	0	2	20.09	20.07	19.85
	3	QPSK	1	0	0	22.35	22.14	21.95
			1	8	0	22.30	22.09	21.88
			1	14	0	22.28	22.02	21.86
			8	0	1	21.33	21.09	20.86
			8	4	1	21.31	21.05	20.85
			8	7	1	21.31	21.01	20.86
			15	0	1	21.28	21.07	20.83
			1	0	1	21.84	21.26	21.06
		16QAM	1	8	1	21.81	21.22	21.05
			1	14	1	21.77	21.22	21.04
			8	0	2	20.48	20.05	19.97
			8	4	2	20.41	20.03	19.92
			8	7	2	20.34	20.03	19.89
			15	0	2	20.41	20.14	19.83
	5	QPSK	1	0	0	22.22	21.92	21.84
			1	12	0	22.18	21.91	21.80
			1	24	0	22.14	21.86	21.76
			12	0	1	21.21	20.94	20.87
			12	7	1	21.19	20.91	20.85
			12	13	1	21.19	20.86	20.84
			25	0	1	21.20	20.87	20.93
			1	0	1	21.37	20.93	20.84
		16QAM	1	12	1	21.21	20.92	20.80
			1	24	1	21.19	20.85	20.53
			12	0	2	20.22	19.83	19.87
			12	7	2	20.20	19.80	19.83
			12	13	2	20.18	19.77	19.77
			25	0	2	20.24	19.91	19.95
	10	QPSK	1	0	0	22.19	22.04	22.08
			1	25	0	22.07	21.98	22.04
			1	49	0	22.06	21.92	22.05
			25	0	1	21.17	21.07	21.02
			25	12	1	21.14	21.06	21.03
			25	25	1	21.08	21.04	21.04
			50	0	1	21.18	21.07	21.03
			1	0	1	21.23	21.27	21.32
		16QAM	1	25	1	21.21	21.25	21.29
			1	49	1	21.11	21.16	21.28
			25	0	2	20.15	20.08	20.06
			25	12	2	20.11	20.05	20.04
			25	25	2	20.07	20.04	20.01
			50	0	2	20.25	20.07	20.05
	15	QPSK	1	0	0	22.13	22.12	22.01
			1	36	0	22.08	22.01	21.95
			1	74	0	22.01	21.96	21.92
			36	0	1	21.25	21.12	21.04
			36	18	1	21.19	21.08	21.03
			36	37	1	21.15	21.03	21.01
			75	0	1	21.10	21.07	21.03
			1	0	1	21.05	21.35	21.08
		16QAM	1	36	1	21.04	21.23	21.03
			1	74	1	20.83	21.13	21.02
			36	0	2	20.20	20.12	20.08
			36	18	2	20.15	20.06	20.06
			36	37	2	20.12	20.00	20.01
			75	0	2	20.16	20.02	19.63
	20	QPSK	1	0	0	22.36	22.27	22.09
			1	49	0	22.21	22.21	22.08
			1	99	0	22.16	22.15	22.03
			50	0	1	21.39	21.18	21.26
			50	24	1	21.37	21.17	21.22
			50	50	1	21.36	21.17	21.19
			100	0	1	21.38	21.16	21.19
			1	0	1	21.48	21.41	21.19
		16QAM	1	49	1	21.28	21.40	21.12
			1	99	1	21.35	21.33	21.10
			50	0	2	20.42	20.15	20.19
			50	24	2	20.31	20.14	20.18
			50	50	2	20.23	20.12	20.18
			100	0	2	20.28	20.17	20.19

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Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 66	1.4	QPSK	1	0	0	22.29	22.05	22.27
			1	3	0	22.15	21.99	22.15
			1	5	0	22.18	21.97	22.23
			3	0	0	22.24	21.94	22.20
			3	1	0	22.23	21.90	22.17
			3	3	0	22.23	21.88	22.15
			6	0	1	21.26	21.04	21.18
			1	0	1	21.29	21.23	21.34
		16QAM	1	3	1	21.15	21.15	21.24
			1	5	1	21.14	21.16	21.30
			3	0	1	21.22	21.19	21.15
			3	1	1	21.18	21.15	21.13
			3	3	1	21.11	21.12	21.10
			6	0	2	20.32	20.21	20.22
	3	QPSK	1	0	0	22.26	21.94	22.23
			1	8	0	22.22	21.90	22.21
			1	14	0	22.22	21.81	22.22
			8	0	1	21.18	20.81	21.17
			8	4	1	21.16	20.81	21.17
			8	7	1	21.15	20.80	21.16
			15	0	1	21.19	20.85	21.18
			1	0	1	21.27	21.08	21.35
		16QAM	1	8	1	21.20	21.00	21.27
			1	14	1	21.18	20.90	21.20
			8	0	2	20.10	19.81	20.20
			8	4	2	20.07	19.80	20.18
			8	7	2	20.05	19.76	20.16
			15	0	2	20.07	19.81	20.25
	5	QPSK	1	0	0	22.26	21.98	22.21
			1	12	0	22.17	21.87	22.06
			1	24	0	22.21	21.83	22.04
			12	0	1	21.21	20.80	21.09
			12	7	1	21.18	20.80	21.07
			12	13	1	21.14	20.81	21.05
			25	0	1	21.23	20.88	21.12
			1	0	1	21.28	20.88	21.18
		16QAM	1	12	1	21.23	20.85	21.11
			1	24	1	21.28	20.71	21.11
			12	0	2	20.08	19.82	20.04
			12	7	2	20.05	19.81	19.99
			12	13	2	20.03	19.79	19.96
			25	0	2	20.17	19.74	20.04
	10	QPSK	1	0	0	22.25	21.94	22.20
			1	25	0	22.09	21.92	22.17
			1	49	0	22.08	21.83	22.19
			25	0	1	21.09	20.96	21.21
			25	12	1	21.07	20.93	21.20
			25	25	1	21.06	20.89	21.19
			50	0	1	21.17	20.98	21.26
			1	0	1	21.31	20.99	21.54
		16QAM	1	25	1	21.19	20.90	21.40
			1	49	1	21.07	20.78	21.40
			25	0	2	20.30	20.07	20.19
			25	12	2	20.25	20.05	20.19
			25	25	2	20.18	20.02	20.17
			50	0	2	20.12	20.02	20.23
	15	QPSK	1	0	0	22.31	22.02	22.21
			1	36	0	22.23	22.00	22.20
			1	74	0	22.28	21.96	22.14
			36	0	1	21.21	21.07	21.13
			36	18	1	21.18	21.06	21.12
			36	37	1	21.14	21.00	21.13
			75	0	1	21.19	21.07	21.15
			1	0	1	21.13	21.35	21.35
		16QAM	1	36	1	21.05	21.18	21.31
			1	74	1	21.00	21.10	21.25
			36	0	2	20.24	20.09	20.19
			36	18	2	20.22	20.05	20.18
			36	37	2	20.17	19.94	20.17
			75	0	2	20.17	20.03	20.19
	20	QPSK	1	0	0	22.38	22.14	22.32
			1	49	0	22.29	22.04	22.31
			1	99	0	22.32	22.02	22.28
			50	0	1	21.34	21.18	21.33
			50	24	1	21.32	21.15	21.32
			50	50	1	21.30	21.14	21.31
			100	0	1	21.30	21.12	21.30
			1	0	1	21.57	20.99	21.59
		16QAM	1	49	1	21.36	20.98	21.53
			1	99	1	21.33	20.95	21.50
			50	0	2	20.40	20.20	20.30
			50	24	2	20.34	20.19	20.27
			50	50	2	20.20	20.18	20.26
			100	0	2	20.34	20.18	20.34

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Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 2	1.4	QPSK	1	0	0	22.10	21.97	22.20
			1	3	0	22.06	21.94	22.07
			1	5	0	22.07	21.97	22.06
			3	0	0	22.07	21.88	22.15
			3	1	0	22.04	21.87	22.11
			3	3	0	22.05	21.90	22.07
			6	0	1	21.00	20.96	21.14
			1	0	1	20.94	20.32	21.12
		16QAM	1	3	1	20.75	20.96	20.99
			1	5	1	20.75	20.99	21.02
			3	0	1	20.80	20.82	21.11
			3	1	1	20.79	20.78	21.09
			3	3	1	20.77	20.71	21.08
			6	0	2	19.99	19.99	20.10
	3	QPSK	1	0	0	22.16	21.96	22.33
			1	8	0	22.02	21.79	22.23
			1	14	0	22.07	21.91	22.08
			8	0	1	20.91	20.85	21.26
			8	4	1	21.65	20.84	21.22
			8	7	1	20.95	20.80	21.23
			15	0	1	21.06	20.97	21.24
			1	0	1	21.23	20.93	21.36
		16QAM	1	8	1	21.15	20.98	21.28
			1	14	1	20.90	20.85	21.50
			8	0	2	19.85	19.85	20.32
			8	4	2	19.89	19.87	20.27
			8	7	2	19.97	19.89	20.24
			15	0	2	19.87	19.93	20.33
		QPSK	1	0	0	22.15	22.03	22.13
			1	12	0	22.09	22.00	22.10
			1	24	0	22.08	21.98	22.08
			12	0	1	21.10	21.01	21.29
			12	7	1	21.09	21.00	21.28
			12	13	1	21.07	20.98	21.34
			25	0	1	21.08	21.00	21.26
			1	0	1	21.02	21.15	21.60
	5	16QAM	1	12	1	21.15	21.06	21.50
			1	24	1	21.19	21.08	21.10
			12	0	2	20.03	19.93	20.33
			12	7	2	20.01	19.90	20.30
			12	13	2	20.01	19.84	20.35
			25	0	2	20.06	19.93	20.26
		QPSK	1	0	0	22.18	21.99	22.23
			1	25	0	22.05	21.98	22.14
			1	49	0	22.14	21.94	22.15
			25	0	1	21.11	21.00	21.11
			25	12	1	21.08	21.01	21.11
			25	25	1	21.10	21.03	21.13
			50	0	1	21.17	21.11	21.14
			1	0	1	21.10	21.38	21.22
	10	16QAM	1	25	1	21.00	21.21	21.04
			1	49	1	20.99	21.32	21.10
			25	0	2	20.09	20.12	20.12
			25	12	2	20.10	20.10	20.10
			25	25	2	20.12	20.11	20.14
			50	0	2	20.20	20.14	20.16
		QPSK	1	0	0	22.02	21.97	22.15
			1	36	0	22.01	21.95	22.10
			1	74	0	22.00	21.90	22.06
			36	0	1	21.08	21.11	21.15
			36	18	1	21.07	21.09	21.14
			36	37	1	21.07	21.04	21.10
			75	0	1	21.08	21.08	21.19
			1	0	1	20.81	21.40	21.30
	15	16QAM	1	36	1	20.80	21.40	21.07
			1	74	1	20.76	21.39	21.24
			36	0	2	20.08	19.93	20.24
			36	18	2	20.04	19.93	20.21
			36	37	2	20.08	19.91	20.16
			75	0	2	20.10	19.96	20.21
		QPSK	1	0	0	22.23	22.08	22.34
			1	49	0	22.21	21.93	22.29
			1	99	0	22.17	22.00	21.96
			50	0	1	21.24	21.24	21.30
			50	24	1	21.22	21.21	21.26
			50	50	1	21.19	21.17	21.24
			100	0	1	21.17	21.15	21.17
			1	0	1	21.21	21.19	21.33
	20	16QAM	1	49	1	21.12	21.08	21.30
			1	99	1	21.20	21.06	21.01
			50	0	2	20.16	20.15	20.29
			50	24	2	20.16	20.13	20.22
			50	50	2	20.17	20.13	20.18
			100	0	2	20.16	20.18	20.29

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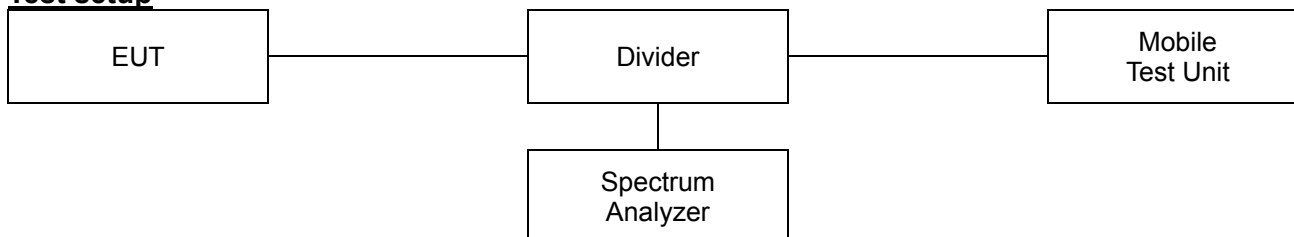
Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 25	1.4	QPSK	1	0	0	22.13	22.16	21.89
			1	3	0	22.11	22.04	21.86
			1	5	0	22.06	22.00	21.86
			3	0	0	22.11	21.96	21.75
			3	1	0	22.04	21.94	21.73
			3	3	0	22.07	21.94	21.71
			6	0	1	21.17	21.00	20.74
			1	0	1	21.27	21.18	20.90
		16QAM	1	3	1	21.17	21.16	20.89
			1	5	1	21.19	21.14	20.87
			3	0	1	21.16	21.05	20.74
			3	1	1	21.16	21.02	20.71
			3	3	1	21.17	21.01	20.67
			6	0	2	20.15	20.14	19.95
	3	QPSK	1	0	0	22.10	22.19	21.75
			1	8	0	22.00	22.10	21.75
			1	14	0	22.03	22.02	21.70
			8	0	1	21.08	20.98	20.77
			8	4	1	21.05	20.98	20.75
			8	7	1	20.97	20.96	20.75
			15	0	1	21.04	20.97	20.79
			1	0	1	21.20	21.28	20.87
		16QAM	1	8	1	21.15	21.21	20.86
			1	14	1	21.09	21.19	20.78
			8	0	2	20.06	19.88	19.90
			8	4	2	20.05	19.86	19.88
			8	7	2	20.02	19.84	19.83
			15	0	2	20.17	20.03	19.85
	5	QPSK	1	0	0	22.10	21.99	21.72
			1	12	0	22.02	21.91	21.64
			1	24	0	22.03	21.92	21.65
			12	0	1	21.16	21.04	20.74
			12	7	1	21.15	21.00	20.75
			12	13	1	21.16	20.98	20.75
			25	0	1	21.15	21.00	20.76
			1	0	1	21.21	21.02	21.02
		16QAM	1	12	1	21.00	21.10	20.98
			1	24	1	21.02	21.00	20.91
			12	0	2	20.08	20.03	19.90
			12	7	2	20.07	20.02	19.84
			12	13	2	20.05	20.02	19.76
			25	0	2	20.16	20.00	19.79
	10	QPSK	1	0	0	22.17	21.95	21.89
			1	25	0	22.11	21.94	21.82
			1	49	0	22.15	21.94	21.80
			25	0	1	21.18	21.06	20.91
			25	12	1	21.17	21.03	20.86
			25	25	1	21.17	20.91	20.83
			50	0	1	21.23	20.98	20.95
		16QAM	1	0	1	21.17	21.07	21.00
			1	25	1	21.16	21.06	20.86
			1	49	1	21.15	20.98	20.84
			25	0	2	20.24	20.10	19.92
			25	12	2	20.20	20.07	19.90
			25	25	2	20.13	20.06	19.85
			50	0	2	20.17	20.11	19.94
	15	QPSK	1	0	0	22.06	22.00	21.91
			1	36	0	22.04	21.83	21.90
			1	74	0	21.99	21.83	21.69
			36	0	1	21.13	21.08	20.94
			36	18	1	21.15	21.05	20.90
			36	37	1	21.16	20.98	20.85
			75	0	1	21.11	21.04	20.98
			1	0	1	21.00	21.02	20.94
		16QAM	1	36	1	20.87	20.93	20.96
			1	74	1	20.88	21.02	20.90
			36	0	2	20.16	20.00	19.91
			36	18	2	20.15	19.97	19.90
			36	37	2	20.15	19.96	19.92
			75	0	2	20.12	19.95	19.93
	20	QPSK	1	0	0	22.26	22.25	21.98
			1	49	0	22.14	22.10	21.90
			1	99	0	22.11	22.04	21.80
			50	0	1	21.25	21.18	21.00
			50	24	1	21.24	21.14	20.97
			50	50	1	21.24	21.10	20.90
			100	0	1	21.22	21.10	20.95
			1	0	1	21.34	21.77	21.10
		16QAM	1	49	1	21.28	21.65	21.06
			1	99	1	21.30	21.34	21.03
			50	0	2	20.21	20.17	19.96
			50	24	2	20.21	20.16	19.95
			50	50	2	20.22	20.14	19.94
			100	0	2	20.29	20.17	20.02

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7.2. 99% Occupied Bandwidth & 26 dB Bandwidth

Test setup



Limit

According to §2.1049 and RSS-GEN 6.7, RSS-133(2.3), 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

- c) 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.
- d) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- e) 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.”
- j) 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 12	1.4	699.7	QPSK	1.33	1.09
			16QAM	1.32	1.09
		707.5	QPSK	1.35	1.10
			16QAM	1.36	1.10
		715.3	QPSK	1.33	1.10
			16QAM	1.34	1.10
	3	700.5	QPSK	3.11	2.70
			16QAM	3.12	2.70
		707.5	QPSK	3.10	2.71
			16QAM	3.09	2.70
		714.5	QPSK	3.09	2.72
			16QAM	3.09	2.71
	5	701.5	QPSK	5.28	4.55
			16QAM	5.27	4.53
		707.5	QPSK	5.31	4.52
			16QAM	5.35	4.52
		713.5	QPSK	5.45	4.53
			16QAM	5.37	4.52
	10	704.0	QPSK	10.42	8.97
			16QAM	10.19	8.99
		707.5	QPSK	10.17	8.97
			16QAM	10.32	8.97
		711.0	QPSK	10.37	8.99
			16QAM	10.22	9.04
LTE Band 13	5	779.5	QPSK	5.37	4.52
			16QAM	5.30	4.52
		782.0	QPSK	5.46	4.52
			16QAM	5.32	4.52
		784.5	QPSK	5.38	4.51
			16QAM	5.35	4.53
	10	782.0	QPSK	10.19	8.94
			16QAM	10.42	8.94

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Test Band	Bandwidth (MHz)	Frequency (MHz)	Test mode	26dB bandwidth (MHz)	99 % bandwidth (MHz)
LTE Band 5/26	1.4	824.7	QPSK	1.33	1.09
			16QAM	1.35	1.10
		836.5	QPSK	1.33	1.10
			16QAM	1.36	1.10
		848.3	QPSK	1.35	1.10
			16QAM	1.34	1.09
	3	825.5	QPSK	3.12	2.70
			16QAM	3.10	2.70
		836.5	QPSK	3.10	2.72
			16QAM	3.11	2.70
		847.5	QPSK	3.12	2.70
			16QAM	3.12	2.70
	5	826.5	QPSK	5.31	4.55
			16QAM	5.35	4.53
		836.5	QPSK	5.41	4.55
			16QAM	5.38	4.51
		846.5	QPSK	5.43	4.53
			16QAM	5.30	4.50
	10	829.0	QPSK	10.32	8.99
			16QAM	10.32	8.99
		836.5	QPSK	10.54	8.97
			16QAM	10.51	8.99
		844.0	QPSK	10.32	8.99
			16QAM	10.32	8.99
LTE Band 26	15	831.5	QPSK	15.21	13.49
			16QAM	15.29	13.45
		841.5	QPSK	15.17	13.49
			16QAM	15.32	13.45

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Test Band	Bandwidth (MHz)	Frequency (MHz)	Test mode	26dB bandwidth (MHz)	99 % bandwidth (MHz)
LTE Band 4/66	1.4	1 710.7	QPSK	1.34	1.10
			16QAM	1.37	1.10
		1 745.0	QPSK	1.36	1.10
			16QAM	1.35	1.10
		1 779.3	QPSK	1.35	1.10
			16QAM	1.35	1.11
	3	1 711.5	QPSK	3.09	2.71
			16QAM	3.12	2.72
		1 745.0	QPSK	3.10	2.71
			16QAM	3.14	2.71
		1 778.5	QPSK	3.16	2.70
			16QAM	3.13	2.70
	5	1 712.5	QPSK	5.33	4.53
			16QAM	5.38	4.55
		1 745.0	QPSK	5.48	4.53
			16QAM	5.40	4.55
		1 777.5	QPSK	5.41	4.55
			16QAM	5.43	4.53
	10	1 715.0	QPSK	10.49	9.04
			16QAM	10.44	9.02
		1 745.0	QPSK	10.47	9.02
			16QAM	10.37	9.02
		1 775.0	QPSK	10.42	8.99
			16QAM	10.42	8.99
	15	1 717.5	QPSK	15.02	13.52
			16QAM	15.29	13.52
		1 745.0	QPSK	15.06	13.49
			16QAM	15.29	13.49
		1 772.5	QPSK	15.17	13.49
			16QAM	15.36	13.56
	20	1 720.0	QPSK	20.03	17.98
			16QAM	20.23	18.03
		1 745.0	QPSK	20.08	17.93
			16QAM	19.93	18.03
		1 770.0	QPSK	20.13	17.98
			16QAM	20.08	17.93

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Test Band	Bandwidth (MHz)	Frequency (MHz)	Test mode	26dB bandwidth (MHz)	99 % bandwidth (MHz)
LTE Band 2/25	1.4	1 850.7	QPSK	1.35	1.09
			16QAM	1.35	1.09
		1 882.5	QPSK	1.31	1.11
			16QAM	1.34	1.10
		1 914.3	QPSK	1.41	1.10
			16QAM	1.35	1.12
	3	1 851.5	QPSK	3.15	2.71
			16QAM	3.10	2.70
		1 882.5	QPSK	3.12	2.71
			16QAM	3.07	2.70
		1 913.5	QPSK	3.09	2.72
			16QAM	3.12	2.71
	5	1 852.5	QPSK	5.45	4.52
			16QAM	5.36	4.53
		1 882.5	QPSK	5.37	4.53
			16QAM	5.33	4.51
		1 912.5	QPSK	5.41	4.51
			16QAM	5.33	4.52
	10	1 855.0	QPSK	10.44	8.99
			16QAM	10.32	8.99
		1 882.5	QPSK	10.47	9.02
			16QAM	10.22	8.99
		1 910.0	QPSK	10.37	8.97
			16QAM	10.29	8.97
	15	1 857.5	QPSK	15.21	13.49
			16QAM	15.36	13.49
		1 882.5	QPSK	15.10	13.49
			16QAM	15.10	13.49
		1 907.5	QPSK	15.17	13.49
			16QAM	15.29	13.49
	20	1 860.0	QPSK	20.18	17.98
			16QAM	19.83	18.08
		1 882.5	QPSK	20.08	17.98
			16QAM	20.13	18.03
		1 905.0	QPSK	19.78	17.93
			16QAM	19.78	17.98

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26dB Bandwidth

Test mode: LTE Band 12

1.4M BW / QPSK / Low ch.



1.4M BW / 16QAM / Low ch.



1.4M BW / QPSK / Mid ch.



1.4M BW / 16QAM / Mid ch.



1.4M BW / QPSK / High ch.



1.4M BW / 16QAM / High ch.



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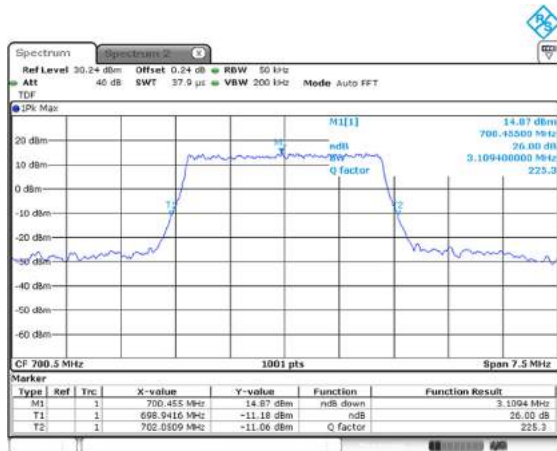
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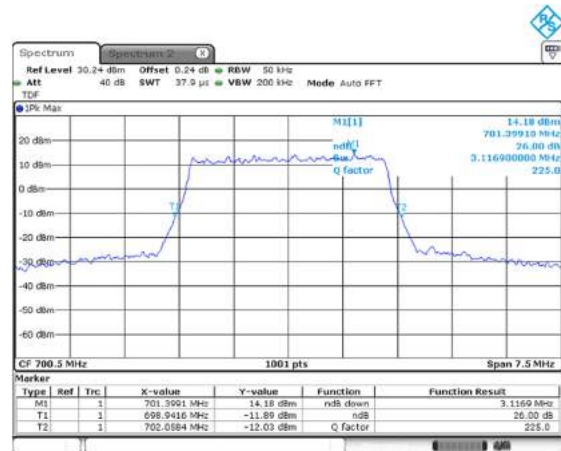
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3M BW / QPSK / Low ch.



3M BW / 16QAM / Low ch.



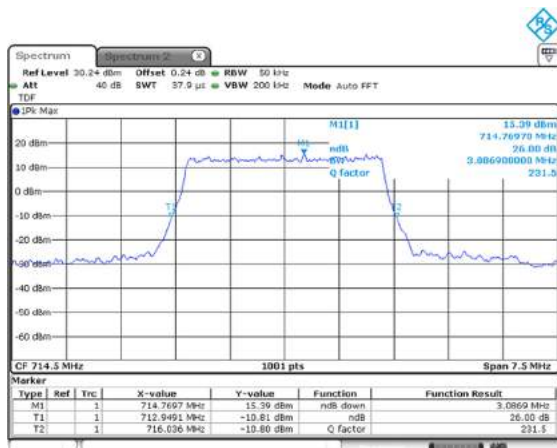
3M BW / QPSK / Mid ch.



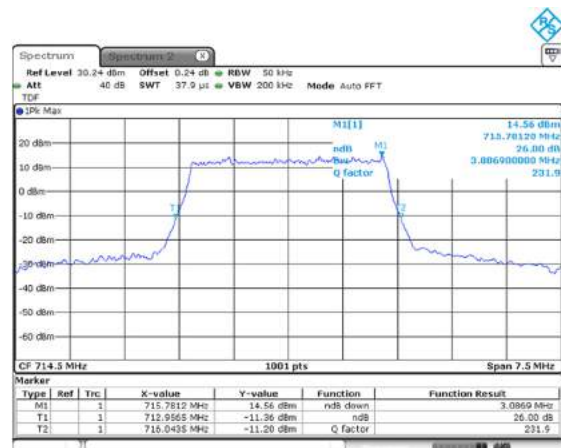
3M BW / 16QAM / Mid ch.



3M BW / QPSK / High ch.



3M BW / 16QAM / High ch.



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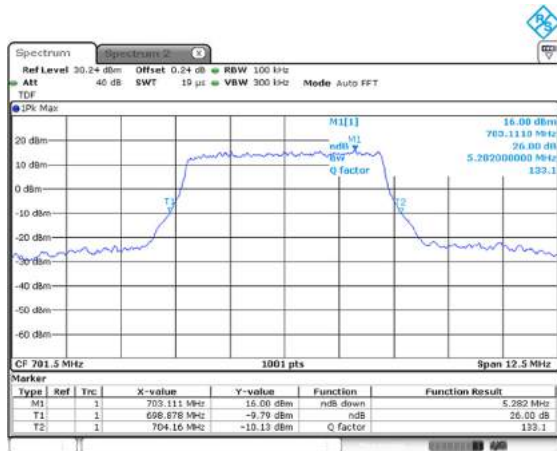
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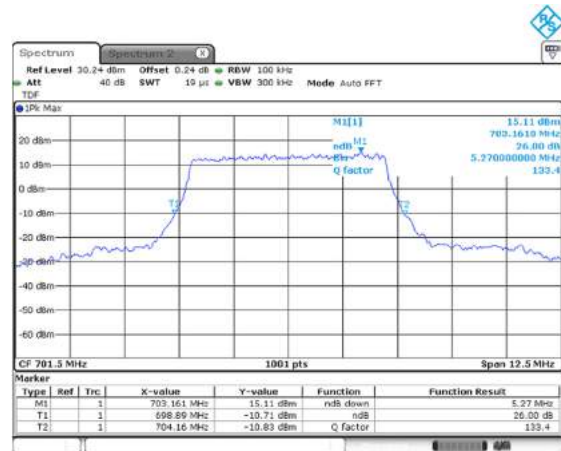
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5M BW / QPSK / Low ch.



5M BW / 16QAM / Low ch.



5M BW / QPSK / Mid ch.



5M BW / 16QAM / Mid ch.



5M BW / QPSK / High ch.



5M BW / 16QAM / High ch.



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10M BW / QPSK / Low ch.



10M BW / 16QAM / Low ch.



10M BW / QPSK / Mid ch.



10M BW / 16QAM / Mid ch.



10M BW / QPSK / High ch.



10M BW / 16QAM / High ch.



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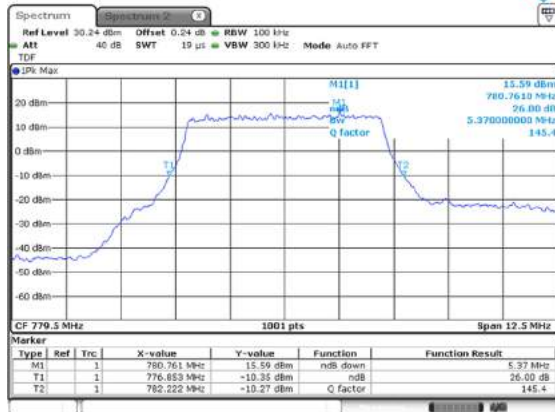
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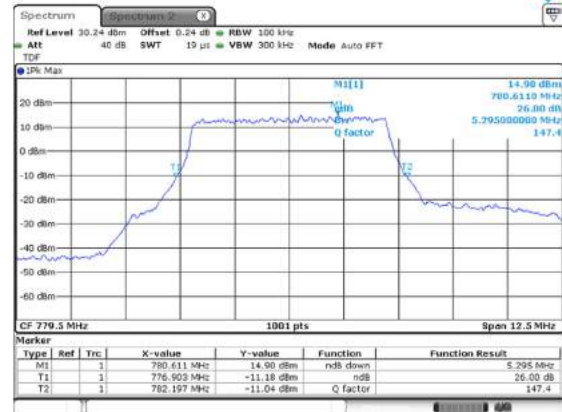


Test mode: LTE Band 13

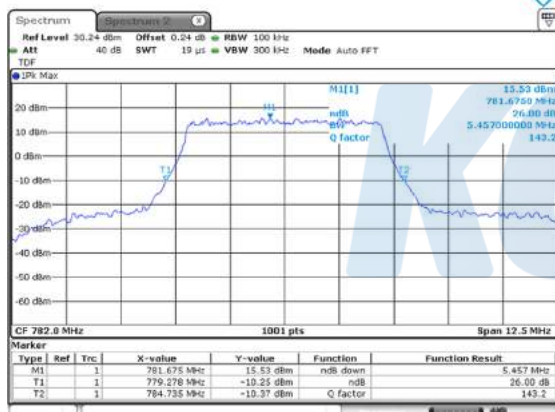
5M BW / QPSK / Low ch.



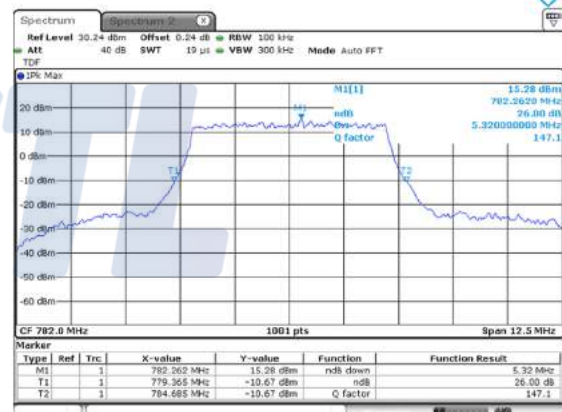
5M BW / 16QAM / Low ch.



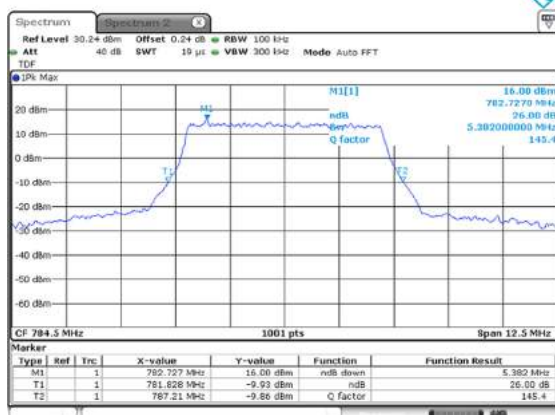
5M BW / QPSK / Mid ch.



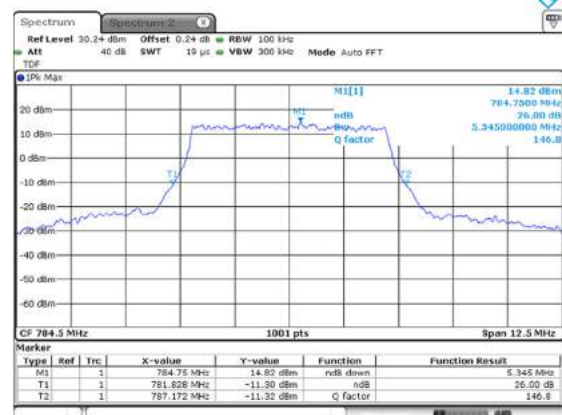
5M BW / 16QAM / Mid ch.



5M BW / QPSK / High ch.



5M BW / 16QAM / High ch.



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10M BW / QPSK / Mid ch.



10M BW / 16QAM / Mid ch.



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Test mode: LTE Band 5/26

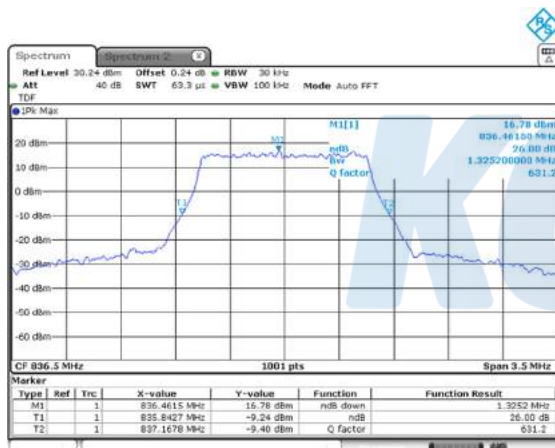
1.4M BW / QPSK / Low ch.



1.4M BW / 16QAM / Low ch.



1.4M BW / QPSK / Mid ch.



1.4M BW / 16QAM / Mid ch.



1.4M BW / QPSK / High ch.



1.4M BW / 16QAM / High ch.



KCTL Inc.

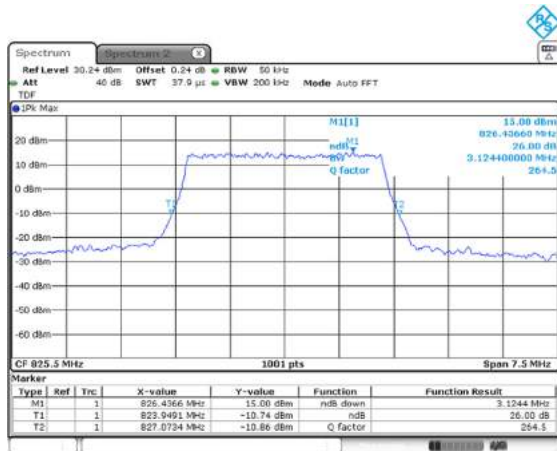
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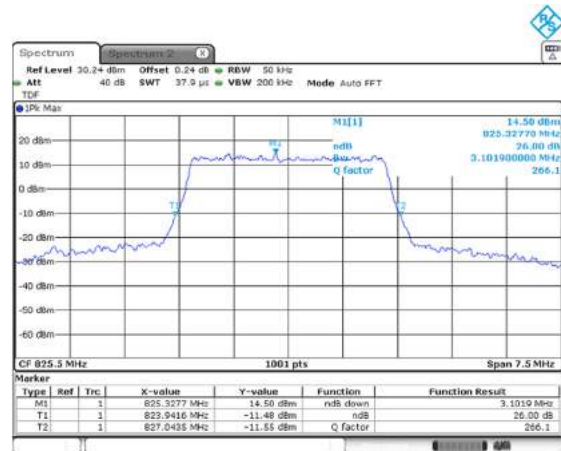
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3M BW / QPSK / Low ch.



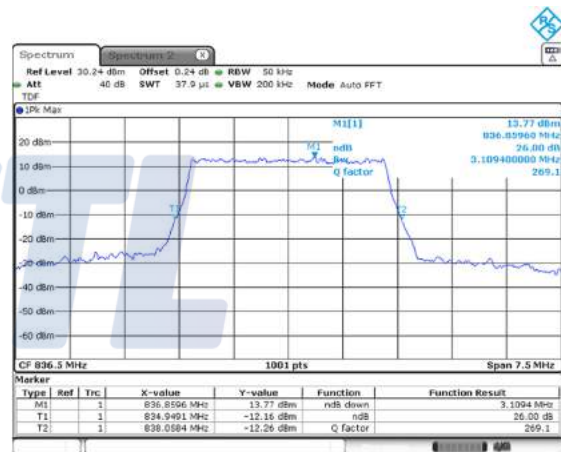
3M BW / 16QAM / Low ch.



3M BW / QPSK / Mid ch.



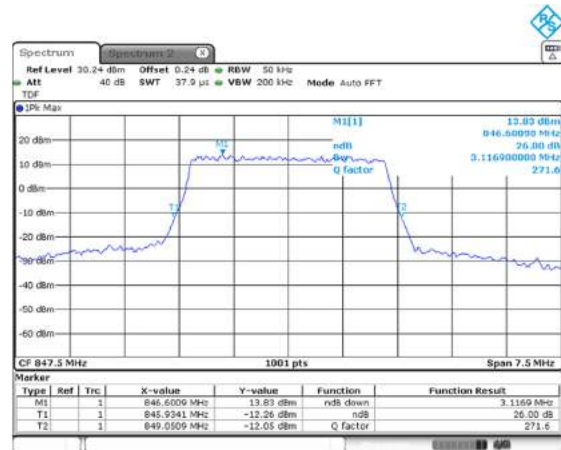
3M BW / 16QAM / Mid ch.



3M BW / QPSK / High ch.



3M BW / 16QAM / High ch.



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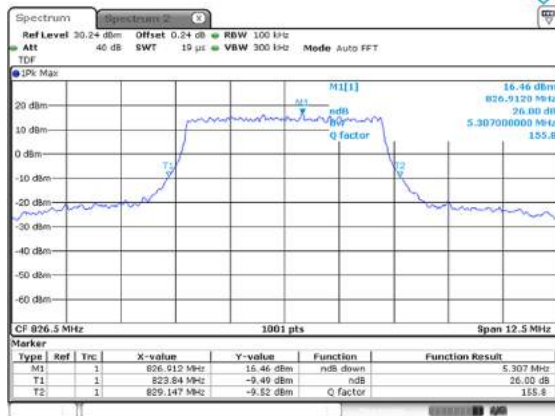
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Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
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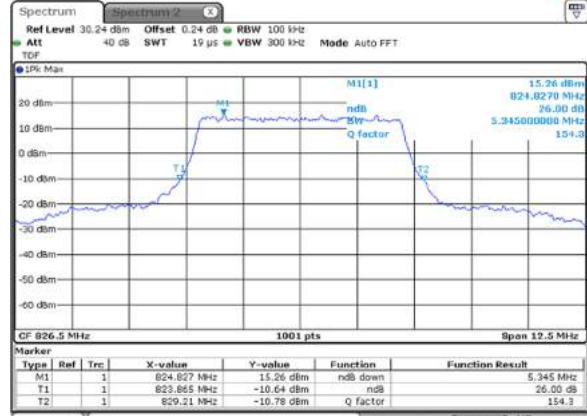
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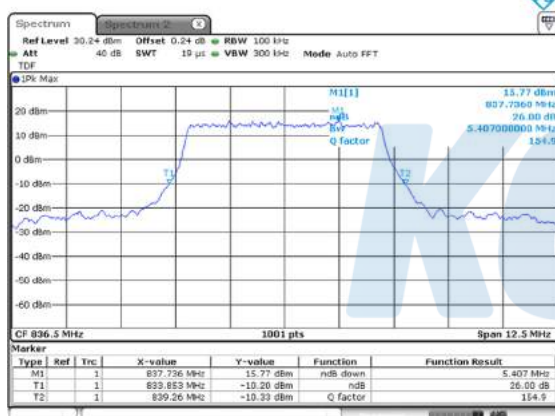
5M BW / QPSK / Low ch.



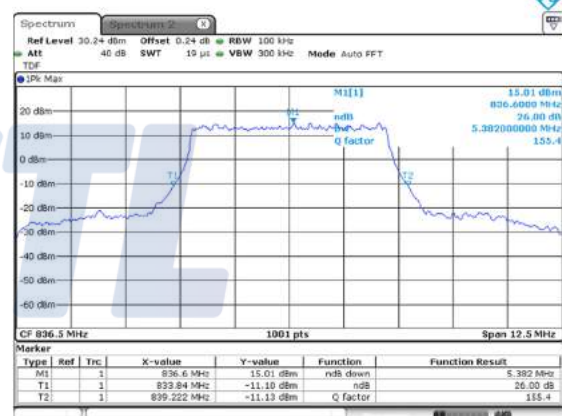
5M BW / 16QAM / Low ch.



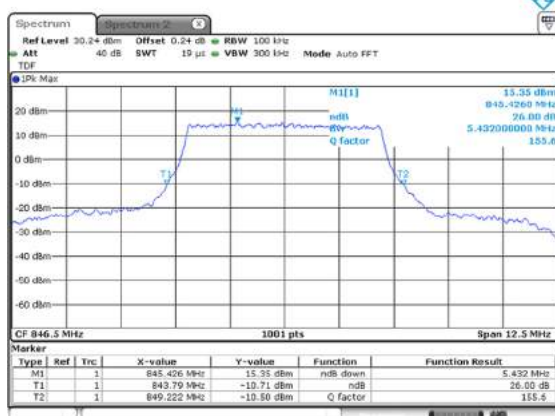
5M BW / QPSK / Mid ch.



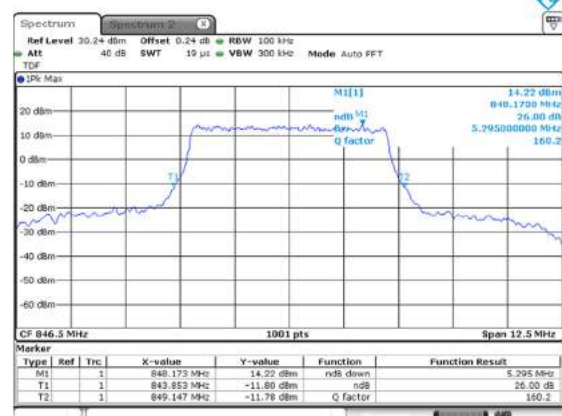
5M BW / 16QAM / Mid ch.



5M BW / QPSK / High ch.



5M BW / 16QAM / High ch.



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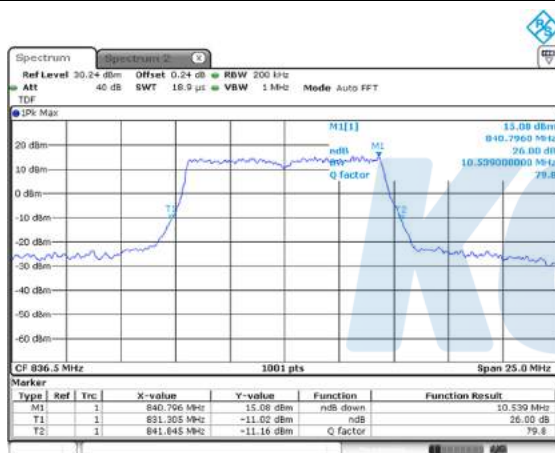
10M BW / QPSK / Low ch.



10M BW / 16QAM / Low ch.



10M BW / QPSK / Mid ch.



10M BW / 16QAM / Mid ch.



10M BW / QPSK / High ch.



10M BW / 16QAM / High ch.



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Test mode: LTE Band 26

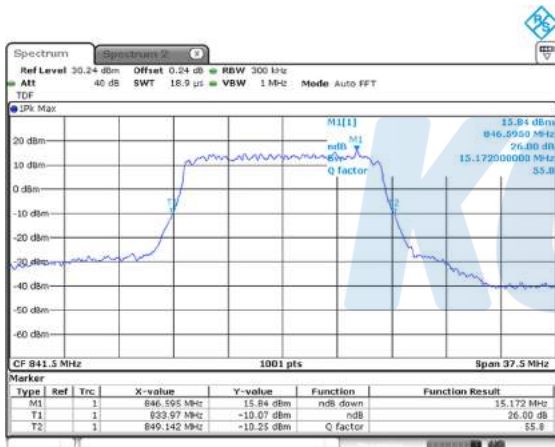
15M BW / QPSK / Low ch.



15M BW / 16QAM / Low ch.

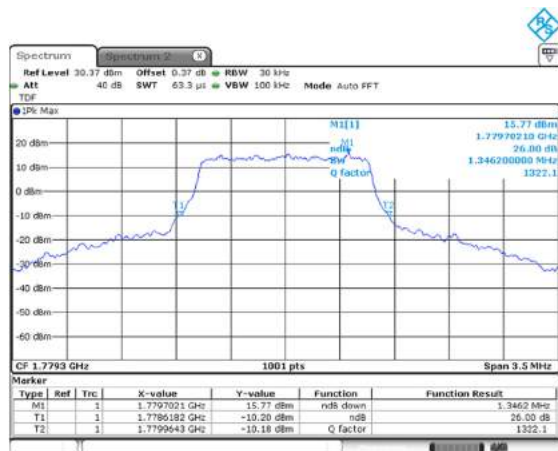


15M BW / QPSK / High ch.



15M BW / 16QAM / High ch.



Test mode: LTE Band 4/66**1.4M BW / QPSK / Low ch.****1.4M BW / 16QAM / Low ch.****1.4M BW / QPSK / Mid ch.****1.4M BW / 16QAM / Mid ch.****1.4M BW / QPSK / High ch.****1.4M BW / 16QAM / High ch.**

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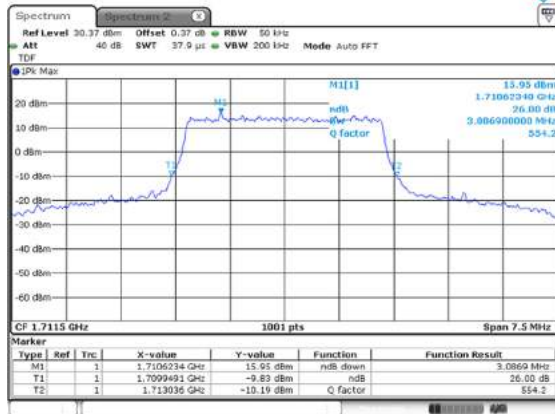
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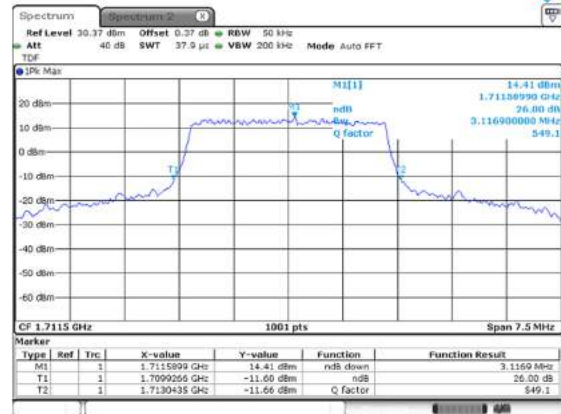
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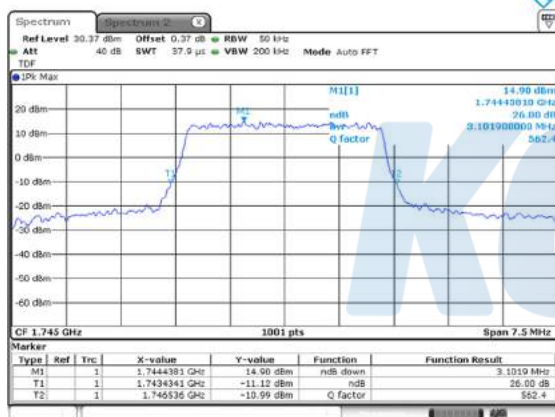
3M BW / QPSK / Low ch.



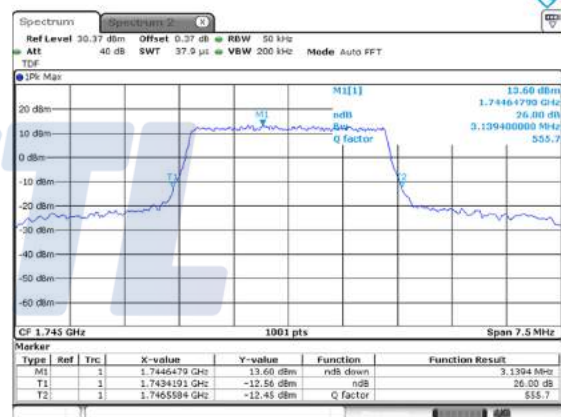
3M BW / 16QAM / Low ch.



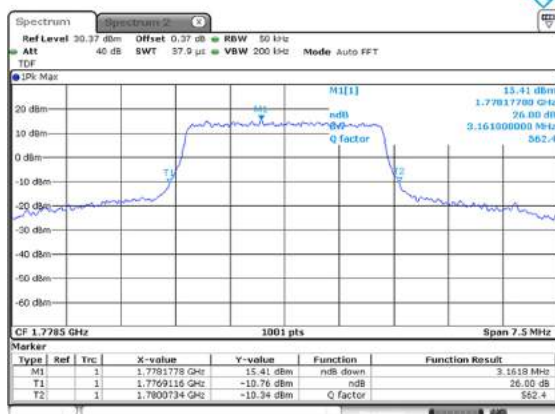
3M BW / QPSK / Mid ch.



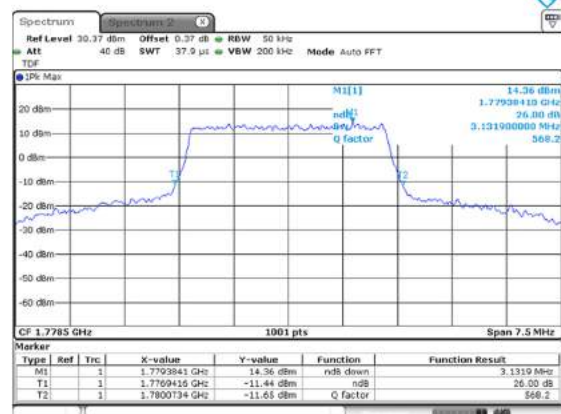
3M BW / 16QAM / Mid ch.



3M BW / QPSK / High ch.



3M BW / 16QAM / High ch.



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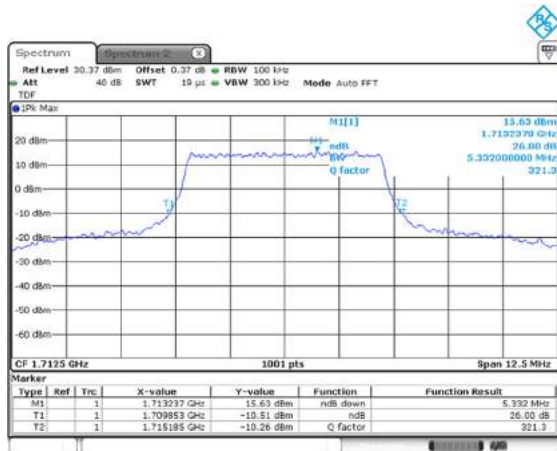
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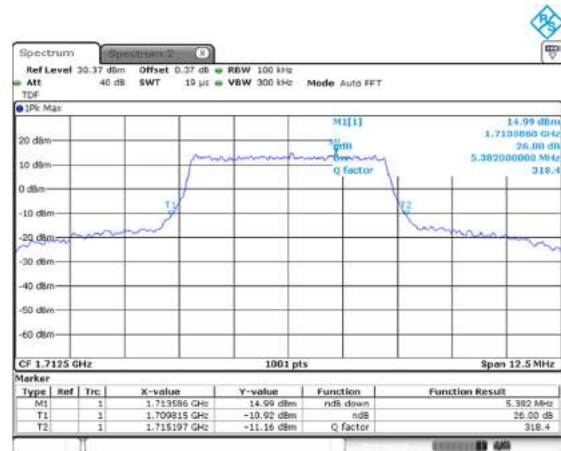
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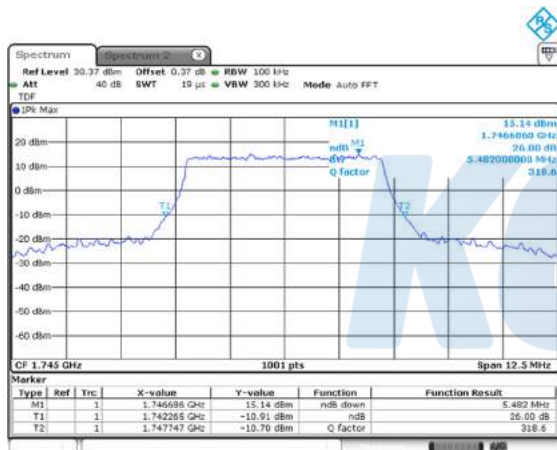
5M BW / QPSK / Low ch.



5M BW / 16QAM / Low ch.



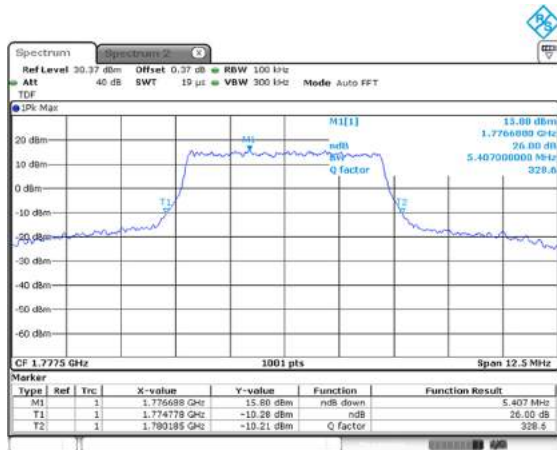
5M BW / QPSK / Mid ch.



5M BW / 16QAM / Mid ch.



5M BW / QPSK / High ch.



5M BW / 16QAM / High ch.



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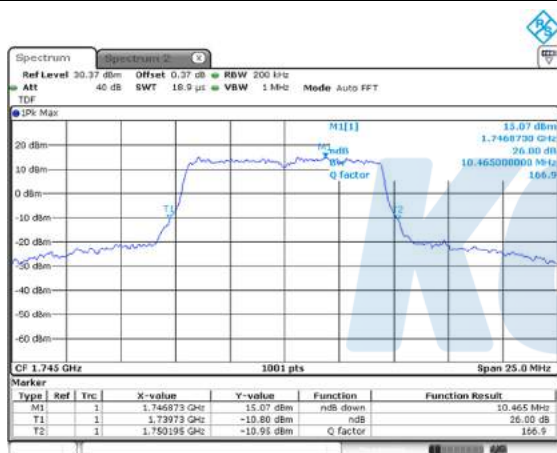
10M BW / QPSK / Low ch.



10M BW / 16QAM / Low ch.



10M BW / QPSK / Mid ch.



10M BW / 16QAM / Mid ch.



10M BW / QPSK / High ch.



10M BW / 16QAM / High ch.



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15M BW / QPSK / Low ch.



15M BW / 16QAM / Low ch.



15M BW / QPSK / Mid ch.



15M BW / 16QAM / Mid ch.



15M BW / QPSK / High ch.



15M BW / 16QAM / High ch.



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20M BW / QPSK / Low ch.



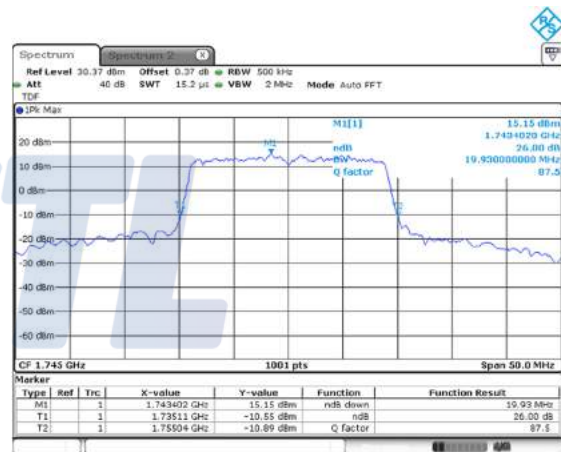
20M BW / 16QAM / Low ch.



20M BW / QPSK / Mid ch.



20M BW / 16QAM / Mid ch.



20M BW / QPSK / High ch.



20M BW / 16QAM / High ch.



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Test mode: LTE Band 2/25

1.4M BW / QPSK / Low ch.



1.4M BW / 16QAM / Low ch.



1.4M BW / QPSK / Mid ch.



1.4M BW / 16QAM / Mid ch.



1.4M BW / QPSK / High ch.



1.4M BW / 16QAM / High ch.



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3M BW / QPSK / Low ch.



3M BW / 16QAM / Low ch.



3M BW / QPSK / Mid ch.



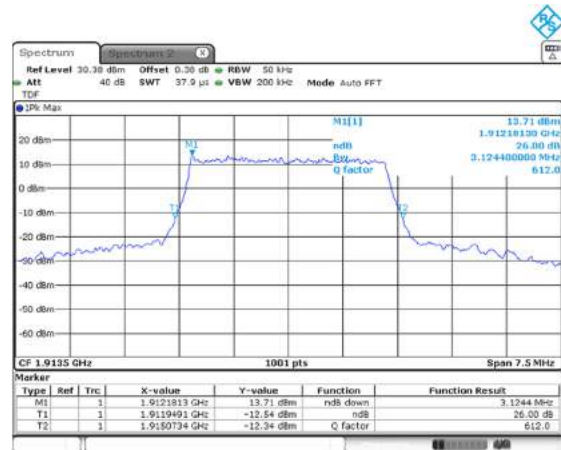
3M BW / 16QAM / Mid ch.



3M BW / QPSK / High ch.



3M BW / 16QAM / High ch.



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5M BW / QPSK / Low ch.



5M BW / 16QAM / Low ch.



5M BW / QPSK / Mid ch.



5M BW / 16QAM / Mid ch.



5M BW / QPSK / High ch.



5M BW / 16QAM / High ch.



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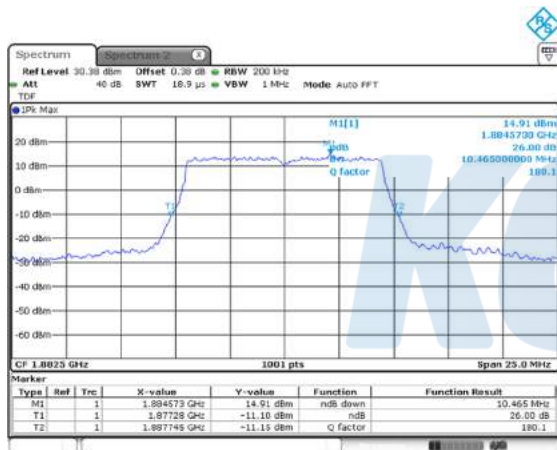
10M BW / QPSK / Low ch.



10M BW / 16QAM / Low ch.



10M BW / QPSK / Mid ch.



10M BW / 16QAM / Mid ch.



10M BW / QPSK / High ch.



10M BW / 16QAM / High ch.



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15M BW / QPSK / Low ch.



15M BW / 16QAM / Low ch.



15M BW / QPSK / Mid ch.



15M BW / 16QAM / Mid ch.



15M BW / QPSK / High ch.



15M BW / 16QAM / High ch.



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20M BW / QPSK / Low ch.



20M BW / 16QAM / Low ch.



20M BW / QPSK / Mid ch.



20M BW / 16QAM / Mid ch.



20M BW / QPSK / High ch.



20M BW / 16QAM / High ch.



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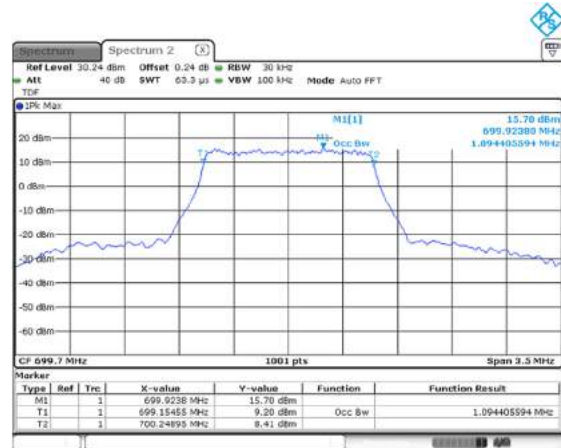
99% Occupied Bandwidth

Test mode: LTE Band 12

1.4M BW / QPSK / Low ch.



1.4M BW / 16QAM / Low ch.



1.4M BW / QPSK / Mid ch.



1.4M BW / 16QAM / Mid ch.



1.4M BW / QPSK / High ch.



1.4M BW / 16QAM / High ch.



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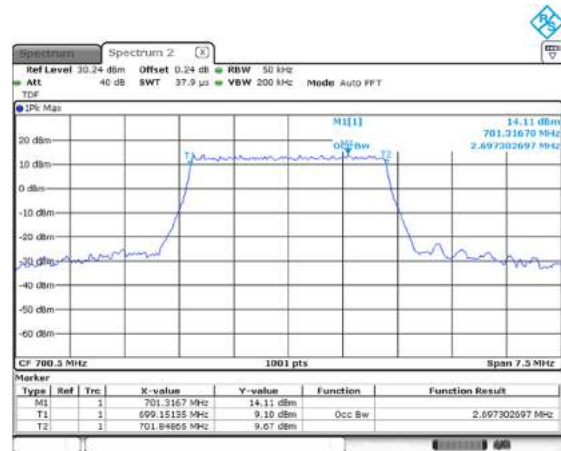
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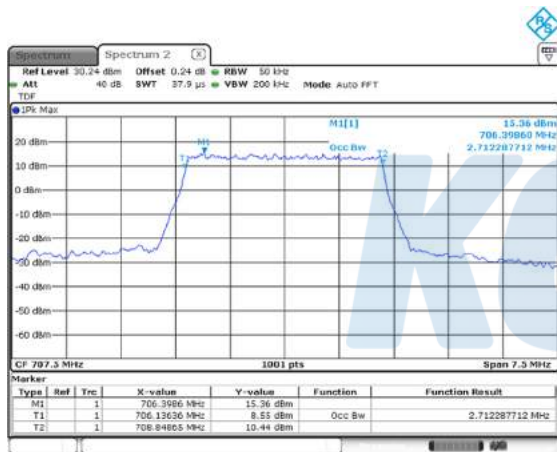
3M BW / QPSK / Low ch.



3M BW / 16QAM / Low ch.



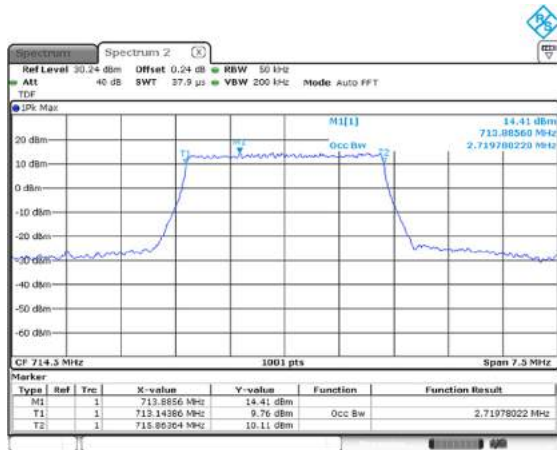
3M BW / QPSK / Mid ch.



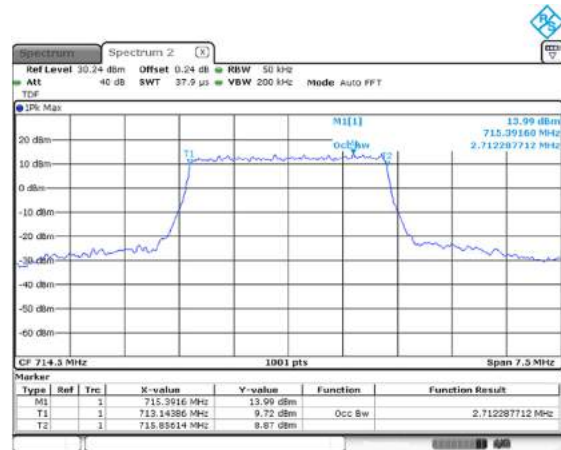
3M BW / 16QAM / Mid ch.



3M BW / QPSK / High ch.



3M BW / 16QAM / High ch.



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5M BW / QPSK / Low ch.



5M BW / 16QAM / Low ch.



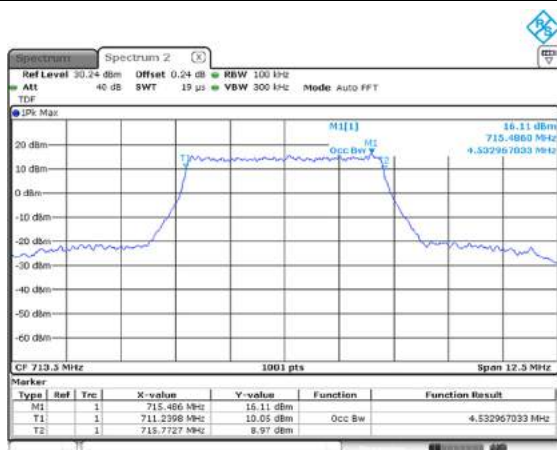
5M BW / QPSK / Mid ch.



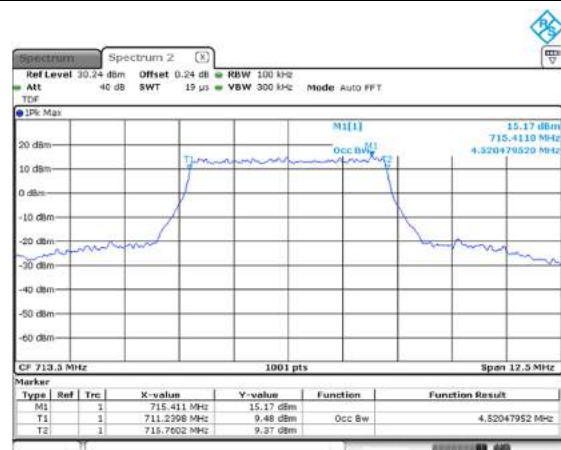
5M BW / 16QAM / Mid ch.



5M BW / QPSK / High ch.



5M BW / 16QAM / High ch.



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10M BW / QPSK / Low ch.



10M BW / 16QAM / Low ch.



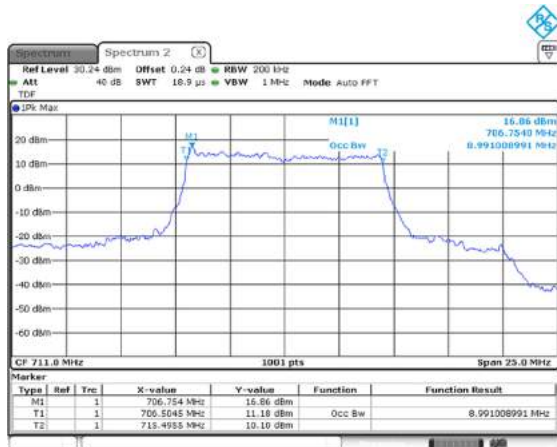
10M BW / QPSK / Mid ch.



10M BW / 16QAM / Mid ch.



10M BW / QPSK / High ch.



10M BW / 16QAM / High ch.



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Test mode: LTE Band 13

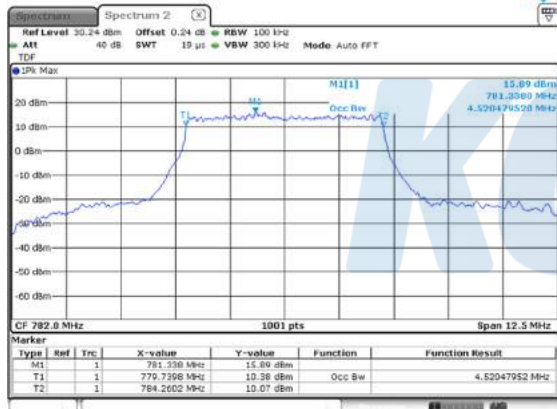
5M BW / QPSK / Low ch.



5M BW / 16QAM / Low ch.



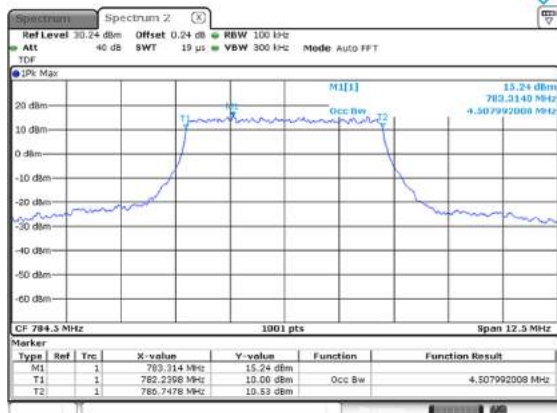
5M BW / QPSK / Mid ch.



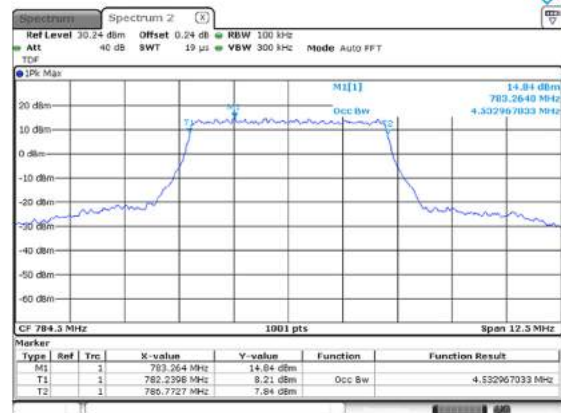
5M BW / 16QAM / Mid ch.



5M BW / QPSK / High ch.



5M BW / 16QAM / High ch.



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10M BW / QPSK / Mid ch.



10M BW / 16QAM / Mid ch.



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Test mode: LTE Band 5/26

1.4M BW / QPSK / Low ch.



1.4M BW / 16QAM / Low ch.



1.4M BW / QPSK / Mid ch.



1.4M BW / 16QAM / Mid ch.



1.4M BW / QPSK / High ch.



1.4M BW / 16QAM / High ch.



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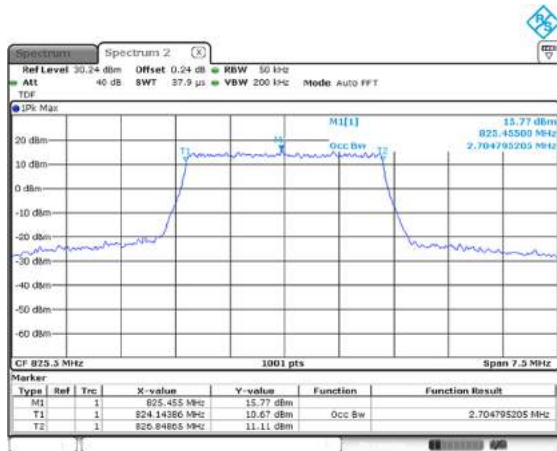
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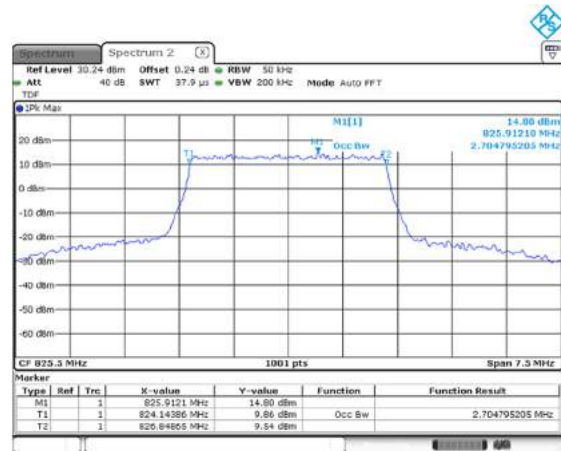
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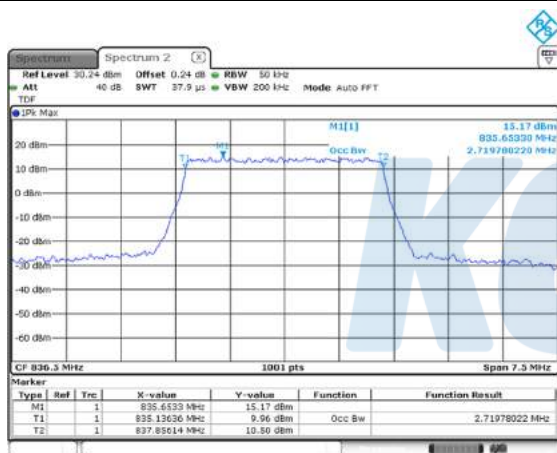
3M BW / QPSK / Low ch.



3M BW / 16QAM / Low ch.



3M BW / QPSK / Mid ch.



3M BW / 16QAM / Mid ch.



3M BW / QPSK / High ch.



3M BW / 16QAM / High ch.



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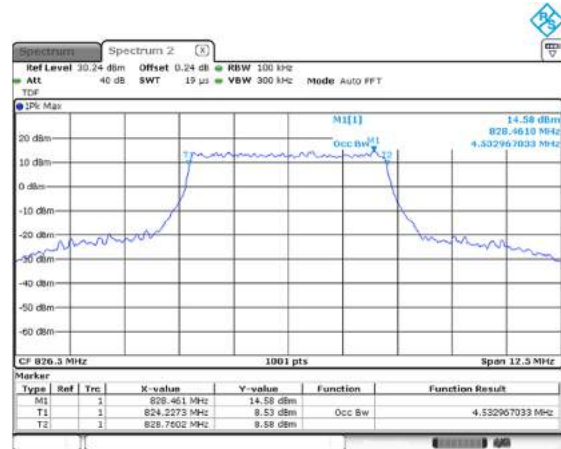
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5M BW / QPSK / Low ch.



5M BW / 16QAM / Low ch.



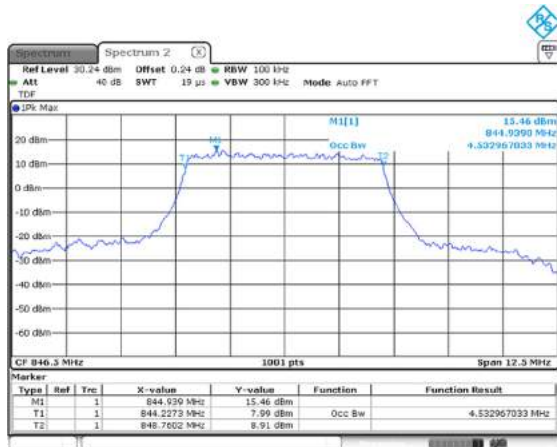
5M BW / QPSK / Mid ch.



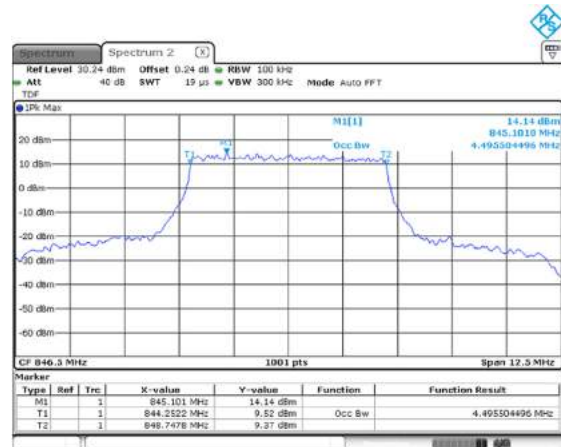
5M BW / 16QAM / Mid ch.



5M BW / QPSK / High ch.



5M BW / 16QAM / High ch.



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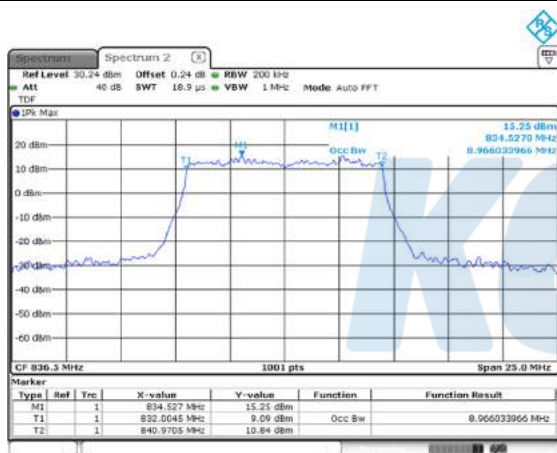
10M BW / QPSK / Low ch.



10M BW / 16QAM / Low ch.



10M BW / QPSK / Mid ch.



10M BW / 16QAM / Mid ch.



10M BW / QPSK / High ch.



10M BW / 16QAM / High ch.



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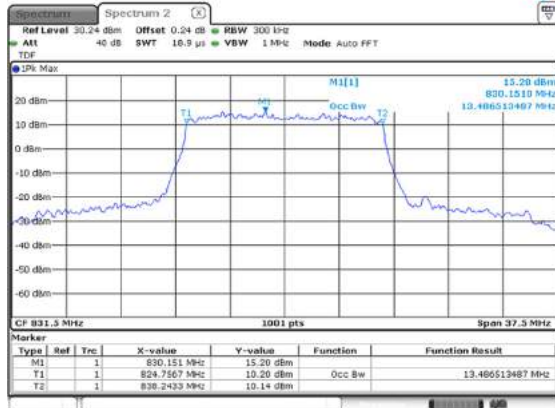
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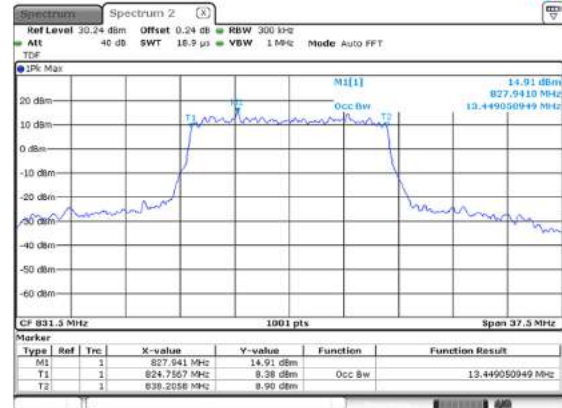


Test mode: LTE Band 26

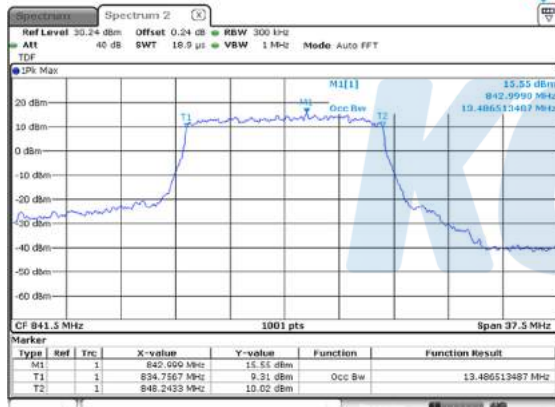
15M BW / QPSK / Low ch.



15M BW / 16QAM / Low ch.



15M BW / QPSK / High ch.



15M BW / 16QAM / High ch.



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Test mode: LTE Band 4/66

1.4M BW / QPSK / Low ch.



1.4M BW / 16QAM / Low ch.



1.4M BW / QPSK / Mid ch.



1.4M BW / 16QAM / Mid ch.



1.4M BW / QPSK / High ch.



1.4M BW / 16QAM / High ch.



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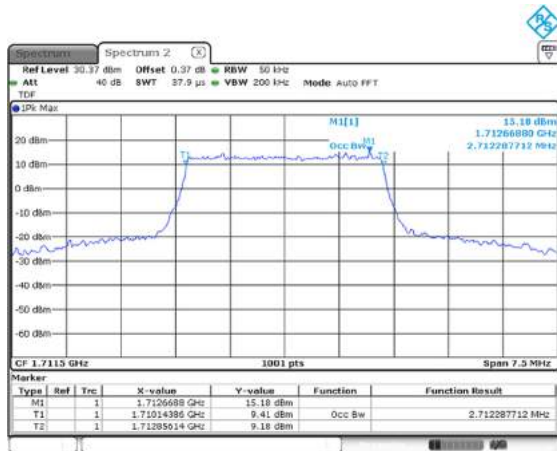
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Suwon-si, Gyeonggi-do, 16677, Korea
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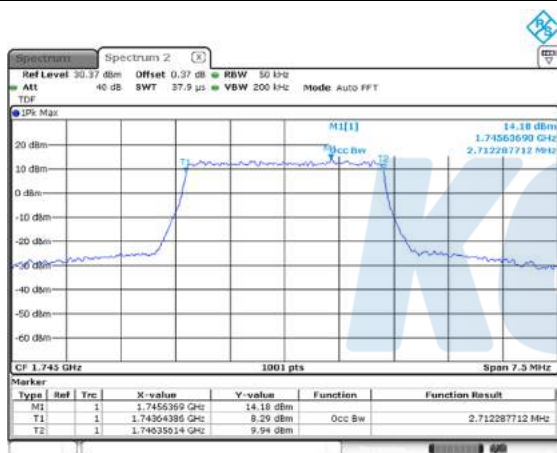
3M BW / QPSK / Low ch.



3M BW / 16QAM / Low ch.



3M BW / QPSK / Mid ch.



3M BW / 16QAM / Mid ch.



3M BW / QPSK / High ch.



3M BW / 16QAM / High ch.



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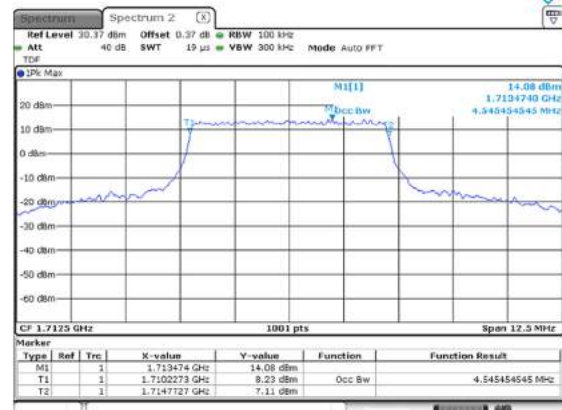
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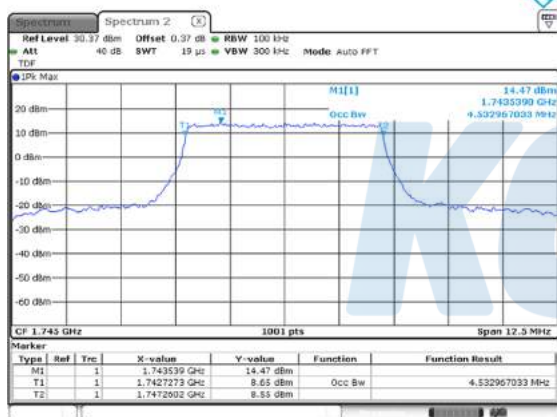
5M BW / QPSK / Low ch.



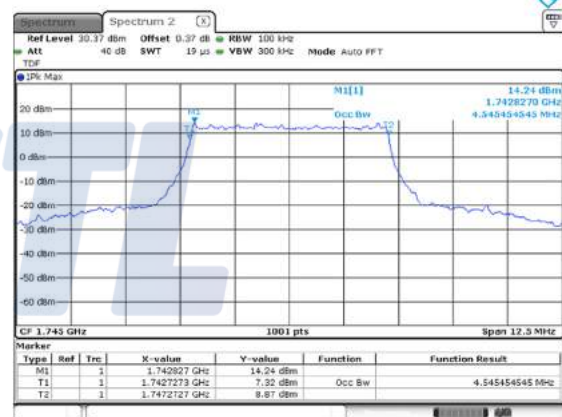
5M BW / 16QAM / Low ch.



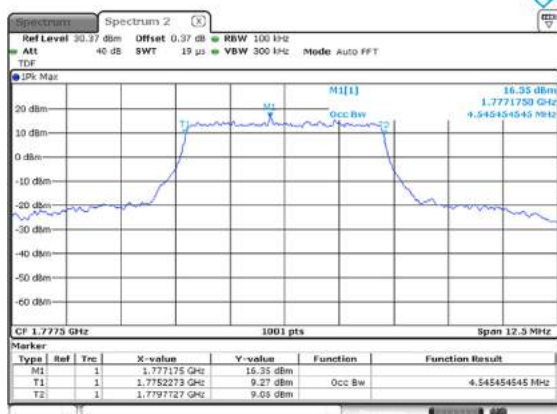
5M BW / QPSK / Mid ch.



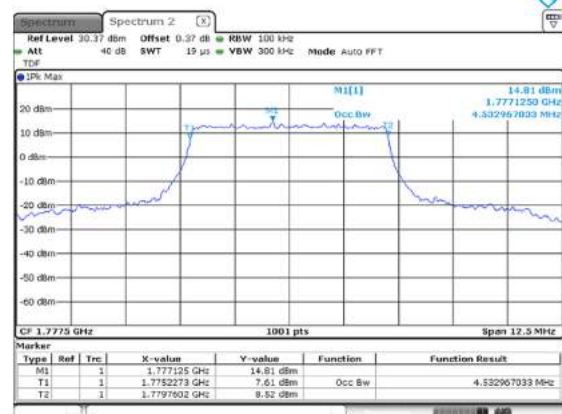
5M BW / 16QAM / Mid ch.



5M BW / QPSK / High ch.



5M BW / 16QAM / High ch.



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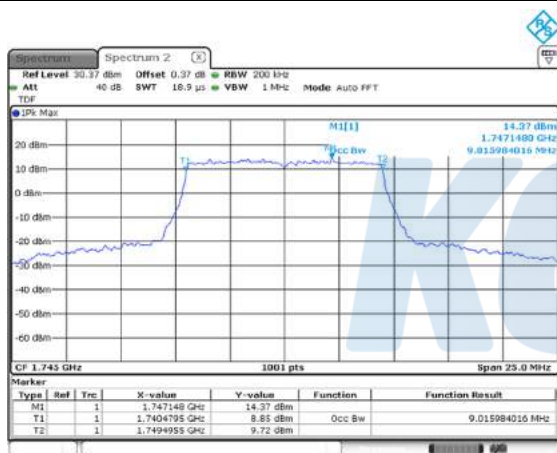
10M BW / QPSK / Low ch.



10M BW / 16QAM / Low ch.



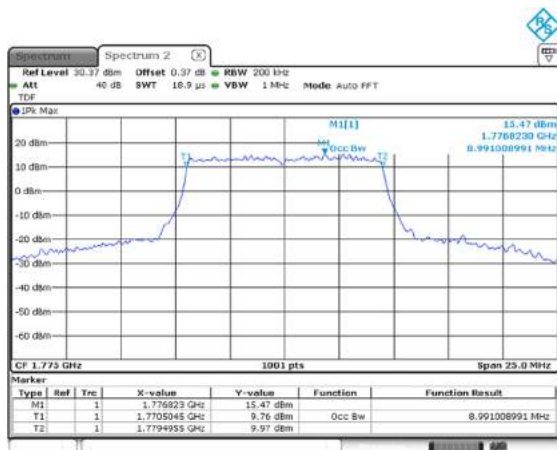
10M BW / QPSK / Mid ch.



10M BW / 16QAM / Mid ch.



10M BW / QPSK / High ch.



10M BW / 16QAM / High ch.



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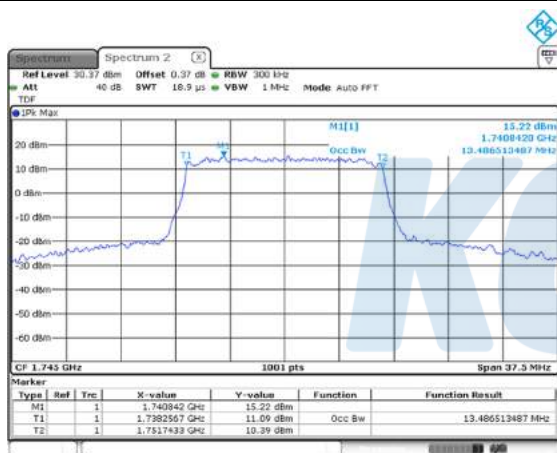
15M BW / QPSK / Low ch.



15M BW / 16QAM / Low ch.



15M BW / QPSK / Mid ch.



15M BW / 16QAM / Mid ch.



15M BW / QPSK / High ch.



15M BW / 16QAM / High ch.



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20M BW / QPSK / Low ch.



20M BW / 16QAM / Low ch.



20M BW / QPSK / Mid ch.



20M BW / 16QAM / Mid ch.



20M BW / QPSK / High ch.



20M BW / 16QAM / High ch.



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Test mode: LTE Band 2/25

1.4M BW / QPSK / Low ch.



1.4M BW / 16QAM / Low ch.



1.4M BW / QPSK / Mid ch.



1.4M BW / 16QAM / Mid ch.



1.4M BW / QPSK / High ch.



1.4M BW / 16QAM / High ch.



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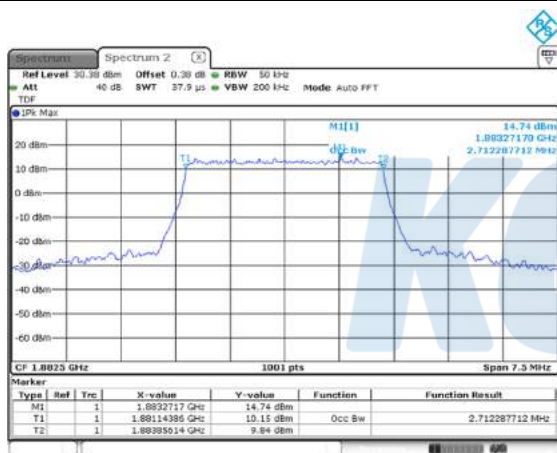
3M BW / QPSK / Low ch.



3M BW / 16QAM / Low ch.



3M BW / QPSK / Mid ch.



3M BW / 16QAM / Mid ch.



3M BW / QPSK / High ch.



3M BW / 16QAM / High ch.



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5M BW / QPSK / Low ch.



5M BW / 16QAM / Low ch.



5M BW / QPSK / Mid ch.



5M BW / 16QAM / Mid ch.



5M BW / QPSK / High ch.



5M BW / 16QAM / High ch.



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10M BW / QPSK / Low ch.



10M BW / 16QAM / Low ch.



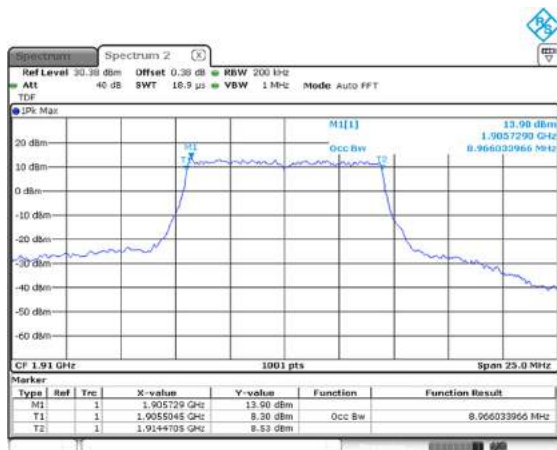
10M BW / QPSK / Mid ch.



10M BW / 16QAM / Mid ch.



10M BW / QPSK / High ch.



10M BW / 16QAM / High ch.



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15M BW / QPSK / Low ch.



15M BW / 16QAM / Low ch.



15M BW / QPSK / Mid ch.



15M BW / 16QAM / Mid ch.



15M BW / QPSK / High ch.



15M BW / 16QAM / High ch.



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20M BW / QPSK / Low ch.



20M BW / 16QAM / Low ch.



20M BW / QPSK / Mid ch.



20M BW / 16QAM / Mid ch.



20M BW / QPSK / High ch.



20M BW / 16QAM / High ch.



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