



TESTING CERT #3478.01



TEST REPORT

EUT Description	Mobile Phone
Brand Name	Unimax Communications
Model Name	U307TG / MXG308
Serial Number	S/N: MB27560400050 / MB27560400021 (see section 4)
FCC ID	FCC ID: P46-UMX35INT
Antenna type	N/A
Hardware/ Software Version	HW Config: B1.1, B1.2 / SW: 01.37.ww39_p3.2016 Test SW : Phone Tool version 218
Date of Sample Receipt	2016-03-02
Date of Test Start/End	2016-03-15 / 2016-05-30
Features	2G: GSM/GPRS 850 / 1900 3G: WCDMA/HSDPA Cat. 14, HSUPA Cat. 6, Rel-7 FDD II / V (see section 5)

Applicant	Unimax Communications
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Reference Standards	FCC CFR Title 47 Part 2, 22, 24, 27 (see section 1)
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Test Report number	160223-01.TR03
Revision Control	Rev. 01

The test results relate only to the samples tested.

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1. Standards, reference documents and applicable test methods

1. FCC 47 CFR part 2 - Subpart J - EQUIPMENT AUTHORIZATION PROCEDURES.
2. FCC 47 CFR part 22 - Subpart H - Cellular Radiotelephone Service.
3. FCC 47 CFR part 24 – Subpart E - Broadband PCS.
4. FCC OET KDB 971168 D01 v02r02 Measurement guidance for certification of licensed digital transmitters.
5. FCC OET KDB 412172 D01 v01r01 Guidelines for determining the effective radiated power (ERP) and equivalent isotropically radiated power (EIRP) of an RF transmitting system.
6. ANSI/TIA-603-D, June 2010 – Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.
7. ANSI C63.4-2009 - American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

2. General conditions, competences and guarantees

- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is a testing laboratory accredited by the American Association for Laboratory Accreditation (A2LA).
- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm listed by the FCC, with Designation Number FR0011.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities.
- ✓ Complete or partial reproduction of the report cannot be made without written permission of Intel WRF Lab.

3. Environmental Conditions

- ✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

Temperature	22°C ± 2°C
Humidity	30% ± 10%

4. Test samples

Sample	Control #	Description	Model	Serial #	Date of reception	Note
#01	160223-01.S09	Smartphone	U307TG, Build B1	MB27560400050	2016-03-02	Used for conducted tests
#02	160223-01.S05	Smartphone	U307TG, Build B1	MB27560400021	2016-03-02	Used for radiated tests

5. EUT features

These are the detailed bands and modes supported by the Equipment Under Test:

GSM / GPRS	GSM 850 (824.0 – 849.0 MHz) PCS 1900 (1850.0 – 1910.0 MHz)
WCDMA / HSPA+	FDD II (1850.0 – 1910.0 MHz) FDD V (824.0 – 849.0 MHz)

6. Remarks and comments

N/A

7. Test Verdicts summary

7.1. GSM/GPRS

Mode	FCC part	Test name	Verdict
PCS 1900	2.1046	Conducted output power	P
	24.238	Emission bandwidth 26dB	P
	24.232	Equivalent isotropic radiated power	P
	2.1049	Occupied bandwidth 99%	P
	24.232	Peak to average ratio	P
	24.235, 2.1055	Frequency Stability	P
	24.238	Conducted band-edge	P
	24.238	Conducted spurious emission	P
	24.238	Radiated spurious emission	P
GSM 850	2.1046	Conducted output power	P
	2.1049	Occupied bandwidth (99%)	P
	22.917	Occupied bandwidth (26dB)	P
	22.355, 2.1055	Frequency Stability	P
	22.917, 2.1051	Band Edge conducted emission	P
	22.917, 2.1051	Spurious emission	P
	22.913	Effective radiated power	P
	22.917, 2.1053	Radiated spurious emission	P
	-	Peak-to-average power ratio	P

7.2. WCDMA

Mode	Band	FCC part	Test name	Verdict
WCDMA / HSPA+ FDD	2	2.1046	Conducted output power	P
		24.238	Emission bandwidth 26dB	P
		24.232	Equivalent isotropic radiated power	P
		2.1049	Occupied bandwidth 99%	P
		24.232	Peak to average ratio	P
		24.235, 2.1055	Frequency Stability	P
		24.238	Conducted band-edge	P
		24.238	Conducted spurious emission	P
		24.238	Radiated spurious emission	P
WCDMA / HSPA+ FDD	5	2.1046	Conducted output power	P
		2.1049	Occupied bandwidth (99%)	P
		22.917	Occupied bandwidth (26dB)	P
		22.355, 2.1055	Frequency Stability	P
		22.917, 2.1051	Band Edge conducted emission	P
		22.917, 2.1051	Spurious emission	P
		22.913	Effective radiated power	P
		22.917, 2.1053	Radiated spurious emission	P
		-	Peak-to-average power ratio	P
		2.1046	Conducted output power	P

P: Pass
F: Fail
NM: Not Measured
NA: Not Applicable

8. Document Revision History

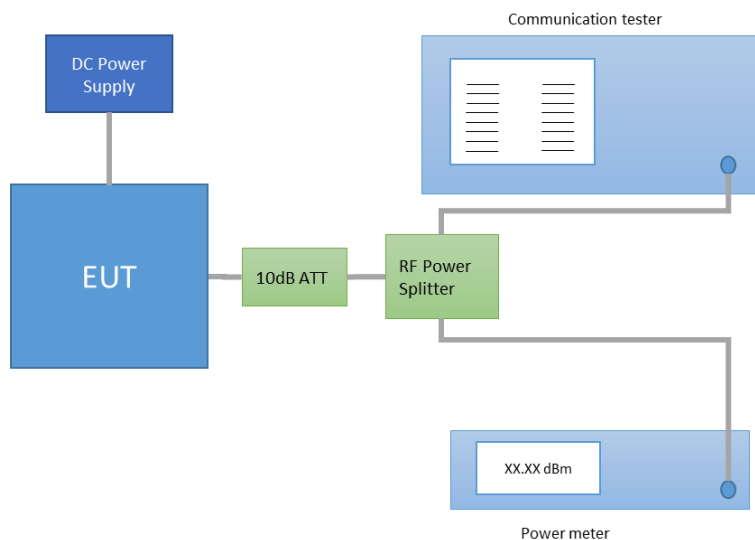
Revision #	Date	Modified by	Details
Rev. 00	2016-06-01	A. Del Real	First Issue
Rev. 01	2016-06-21	A. Del Real M. Lefebvre O. Fargant	• EDGE/8PSK measurements results removed. • Added ERP/EIRP results in section B.2.1. • Added clarification about RBW and VBW used for spurious emissions measurements in sections B.2.4 and B.2.6. • Frequency stability results in section B.2.5 rounded to the nearest thousandth and % error column removed. • Added comment in section B.2.5 regarding battery operating end-point. • Updated test procedure in section B.2.6 to include the reference to the substitution method defined in ANSI/TIA-603-D. • Minor editorial modifications.

Annex A. Test & System Description

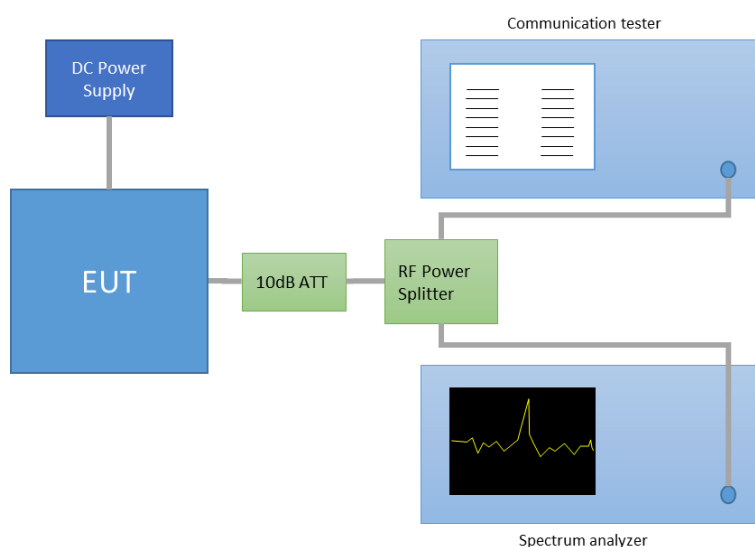
A.1 Measurement system

Measurements were performed using the following setups. A communication tester was used to establish a communication link with the EUT, and the communication tester parameters were set to get the maximum output power from the EUT.

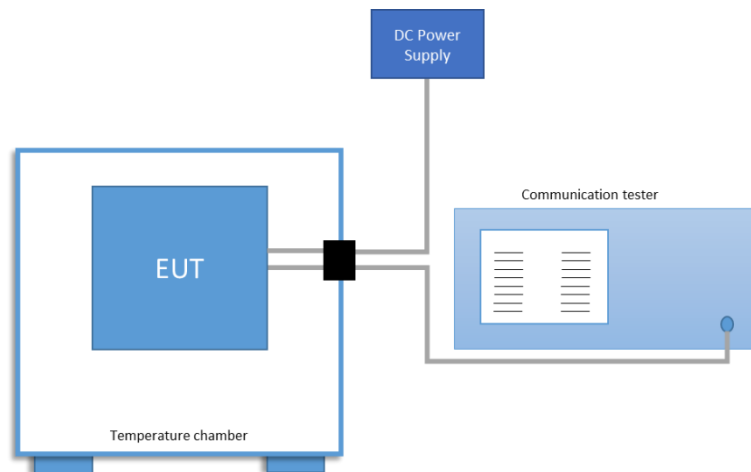
Conducted Setup 1



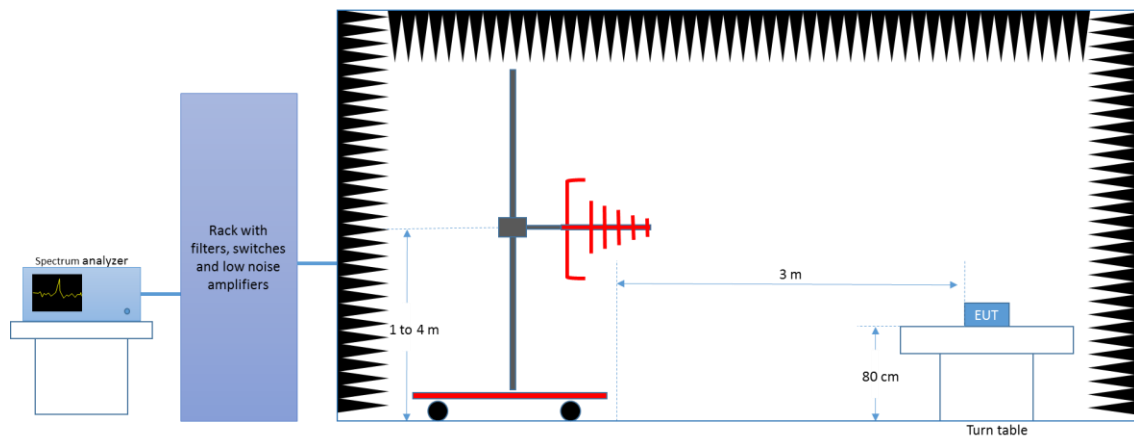
Conducted Setup 2



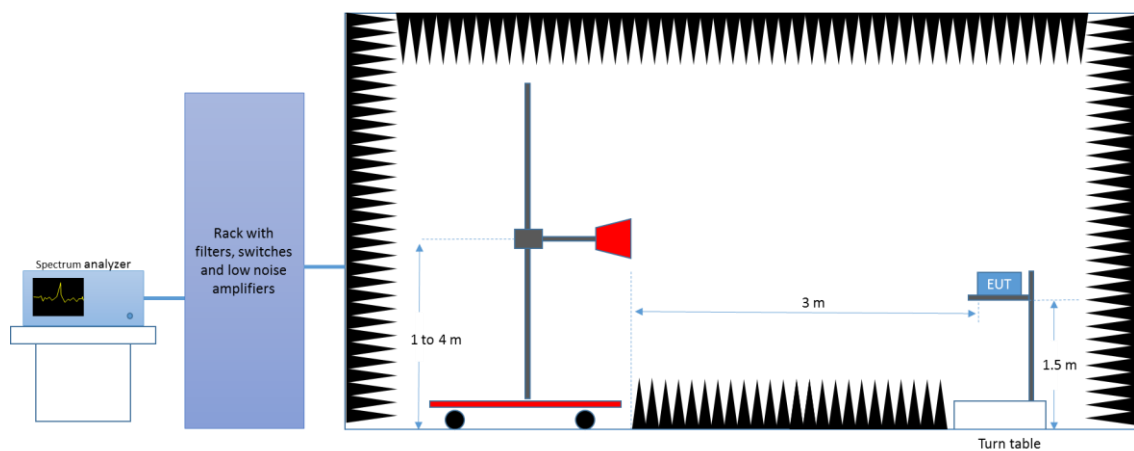
Conducted Setup 3



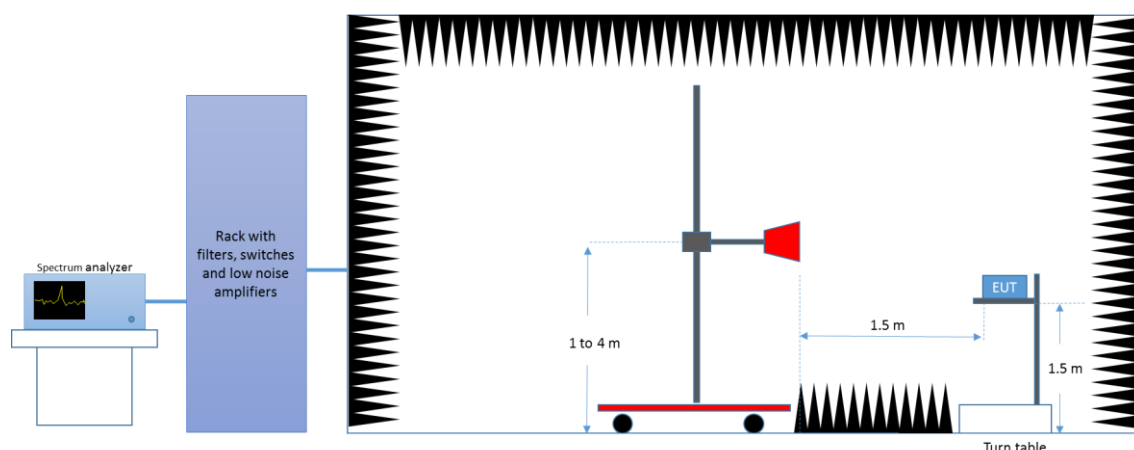
Radiated Setup < 1GHz



Radiated Setup 1GHz - 18GHz



Radiated Setup > 18GHz



A.2 Test Equipment List

Conducted Setup

ID Number	Device	Type/Model	Serial Number	Manufacturer	Calibration Date	Calibration Due Date
0319	Communication tester	CMW500	152721	Rohde & Schwarz	2015-03-19	2017-03-19
0315	Spectrum analyzer	FSV40	103307	Rohde & Schwarz	2015-03-20	2017-03-20
0046	Power splitter	11667B	MY51360447	Agilent	NA	NA
0098	USB Power sensor	NRP-Z81	102278	Rohde & Schwarz	2015-09-10	2017-09-10
0349	Coax cable	794-9191-0200A	NA	Atem	NA	NA
0350	Coax cable	MF64639	NA	Outiflex	NA	NA
NA	10 dB attenuator	NA	1122012	Anritsu	NA	NA
0292	DC Power supply	E3648A	MY40003316	Agilent	NA	NA
0036	Multimeter	IDM103	03902163	Iso-tech	2016-01-28	2018-01-28
0052	Climatic Chamber	LHU-113	1012-00-5753	ESPEC	2016-02-08	2018-02-08

Radiated Setup

ID Number	Device	Type/Model	Serial Number	Manufacturer	Calibration Date	Calibration Due Date
0210	Communication tester	CMW500	147712	Rohde & Schwarz	NA	NA
0340	Communication tester	CMU200	104365	Rohde & Schwarz	NA	NA
0133	Spectrum analyzer	FSV40	101358	Rohde & Schwarz	2014-05-03	2016-05-03
0137	Log antenna 30 MHz – 1 GHz	3142E	00156946	ETS Lindgren	2014-05-03	2016-05-03
0325	Horn antenna 1 GHz – 6.4 GHz	3117	00157734	ETS Lindgren	2015-07-24	2017-07-24
0343	Horn Antenna 6.4 GHz – 18 GHz	3117-PA	00201542	ETS Lindgren	2015-07-16	2017-07-16
0139	Horn Antenna 18 GHz - 26.5 GHz	114514	00167100	ETS Lindgren	2014-04-25	2016-04-25
0140	Horn Antenna 26GHz – 40GHz	120722	00169638	ETS Lindgren	2014-08-14	2016-08-14
0135	Semi Anechoic chamber	FACT 3	5720	ETS Lindgren	2016-04-28	2018-04-28
N/A	Measurement Software	EMC32	012109650000013B (009977)	Rohde & Schwarz	N/A	N/A

A.3 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the below table:

Measurement type	Uncertainty [$\pm$ dB]
Conducted Power (power meter)	± 1.0
Conducted spurious emission	± 2.9
Radiated test < 1GHz	± 3.8
Radiated test 1GHz - 26 GHz	± 4.7

Annex B. Test Results

B.1 Test Conditions

For cellular transmission modes GPRS/EGPRS/WCDMA, the device was put into operation by using an R&S CMW 500 as base station simulator.

The output power of the device was set to transmit at maximum power for all tests.

B.2 Test results

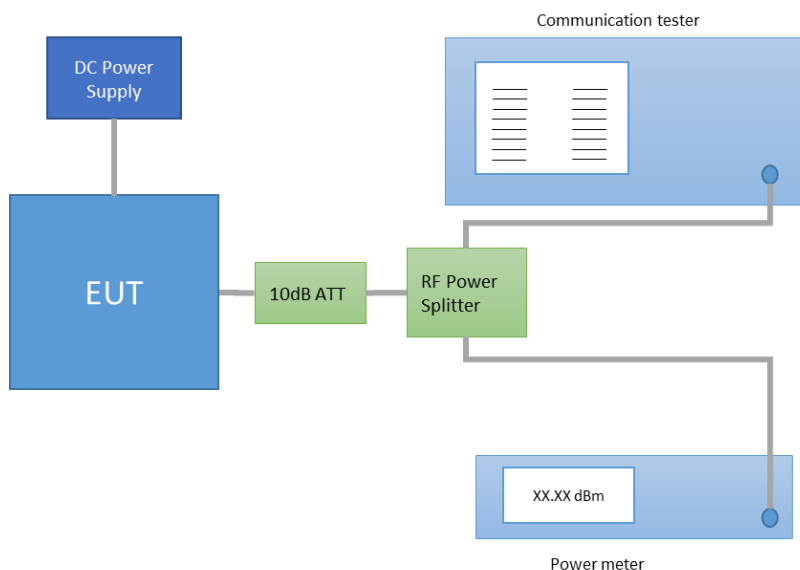
B.2.1 Radiated RF power

Test limits

BAND	FCC part	Power Limits [Watts]	Max Antenna Gain [dBi]
PCS 1900, WCDMA II	2.1046, 24.232	< 2 watts EIRP	1.2
GSM 850, WCDMA V	2.1046, 22.913	ERP max 7 watts	0.5

Test procedure

The radiated power is determined by adding the antenna gain to the conducted measured power. The setup below was used to measure the conducted output power. The antenna terminal of the EUT is connected to the power meter and the communication tester through an attenuator and a power splitter. The power meter reading is compensated to include the RF. This test was performed according to the KDB 971168 D01 § 5.2.



According to the KDB 412172 D01, the EIRP and ERP was determined with the following calculation:

$$EIRP = P_t + G_t$$

$$ERP = EIRP - 2.15$$

Where:

EIRP = Equivalent Isotropically Radiated Power in **dBm**.

ERP = Equivalent Radiated Power in **dBm**.

G_t = Maximum antenna gain in **dB_i**.

Results tables

GSM

Band	Mode	Channel Number	Frequency [MHz]	#UL Slots	Average [dBm]	Peak [dBm]	Average ERP [W]	Peak ERP [W]
GSM850	GPRS	128	824.2	1	32.24	32.6	1.15	1.24
				2	28.56	28.99	0.49	0.54
				3	26.71	27.16	0.32	0.36
				4	25.5	25.97	0.24	0.27
		190	836.6	1	32.28	32.64	1.16	1.26
				2	28.5	29.03	0.48	0.55
				3	26.67	27.18	0.32	0.36
				4	25.53	26.01	0.24	0.27
		251	848.8	1	32.37	32.69	1.18	1.27
				2	28.55	29.03	0.49	0.55
				3	26.68	27.19	0.32	0.36
				4	25.5	26.02	0.24	0.27

Max values

Min values

PCS

Band	Mode	Channel Number	Frequency [MHz]	#UL Slots	Average [dBm]	Peak [dBm]	Average EIRP [W]	Peak EIRP [W]
PCS1900	GPRS	512	1850.2	1	29.1	29.49	1.07	1.17
				2	26.05	26.47	0.53	0.58
				3	24.03	24.52	0.33	0.37
				4	22.8	23.3	0.25	0.28
		661	1880	1	29.22	29.55	1.10	1.19
				2	26.06	26.51	0.53	0.59
				3	24.08	24.57	0.34	0.38
				4	22.86	23.33	0.25	0.28
		810	1909.8	1	29.59	29.16	1.20	1.09
				2	26.13	26.55	0.54	0.60
				3	24.6	24.18	0.38	0.35
				4	22.85	23.36	0.25	0.29

Max values

Min values

WCDMA

Band	Mode	Channel Number	Frequency [MHz]	Subtest	Average [dBm]	Peak [dBm]	Average EIRP [W]	Peak EIRP [W]
WCDMA II	RMC	9262	1852.4	-	23.38	26.73	0.29	0.62
		9400	1880	-	23.4	26.67	0.29	0.61
		9538	1907.6	-	23.31	26.44	0.28	0.58
	HSDPA	9262	1852.4	1	22.71	26.42	0.25	0.58
				2	22.73	26.43	0.25	0.58
				3	22.72	26.42	0.25	0.58
				4	22.75	26.45	0.25	0.58
		9400	1880	1	22.75	26.49	0.25	0.59
				2	22.76	26.46	0.25	0.58
				3	22.8	26.49	0.25	0.59
				4	22.79	26.48	0.25	0.59
		9538	1907.6	1	22.56	26.08	0.24	0.53
				2	22.53	26	0.24	0.52
				3	22.55	26.03	0.24	0.53
				4	22.57	26.04	0.24	0.53
	HSUPA	9262	1852.4	1	21.68	26.49	0.19	0.59
				2	22.21	26.46	0.22	0.58
				3	21.18	26.3	0.17	0.56
				4	22.49	26.22	0.23	0.55
				5	23.38	27.52	0.29	0.74
		9400	1880	1	21.71	26.37	0.20	0.57
				2	22.2	26.45	0.22	0.58
				3	21.22	26.21	0.17	0.55
				4	22.53	26.21	0.24	0.55
				5	23.4	27.54	0.29	0.75
		9538	1907.6	1	21.56	26.03	0.19	0.53
				2	22.08	26.15	0.21	0.54
				3	21.08	25.94	0.17	0.52
				4	22.33	25.85	0.23	0.51
				5	23.3	27.51	0.28	0.74

Max values

Min values

Band	Mode	Channel Number	Frequency [MHz]	Subtest	Average [dBm]	Peak [dBm]	Average ERP [W]	Peak ERP [W]
WCDMA V	RMC	4132	826.4	-	23.69	27.39	0.16	0.37
		4183	836.6	-	23.57	27	0.16	0.34
		4233	846.6	-	23.5	27.26	0.15	0.36
	HSDPA	4132	826.4	1	23.38	27.53	0.15	0.39
				2	23.43	27.59	0.15	0.39
				3	23.43	27.56	0.15	0.39
				4	23.43	27.62	0.15	0.40
		4183	836.6	1	23.15	27.09	0.14	0.35
				2	23.15	27.08	0.14	0.35
				3	23.15	27.1	0.14	0.35
				4	23.15	27.08	0.14	0.35
		4233	846.6	1	23.12	27.41	0.14	0.38
				2	23.14	27.4	0.14	0.38
				3	23.13	27.42	0.14	0.38
				4	23.13	27.38	0.14	0.37
	HSUPA	4132	826.4	1	22.12	28.21	0.11	0.45
				2	22.91	27.47	0.13	0.38
				3	21.8	27.33	0.10	0.37
				4	23.19	27.29	0.14	0.37
				5	22.15	28	0.11	0.43
		4183	836.6	1	22.2	27.08	0.11	0.35
				2	22.7	27.08	0.13	0.35
				3	21.63	27	0.10	0.34
				4	22.96	26.87	0.14	0.33
				5	23.44	27.57	0.15	0.39
		4233	846.6	1	22.13	27.35	0.11	0.37
				2	22.64	27.42	0.13	0.38
				3	21.62	27.1	0.10	0.35
				4	22.91	27.09	0.13	0.35
				5	23.4	27.51	0.15	0.39

Max values

Min values

B.2.2 Occupied bandwidth

Standard references

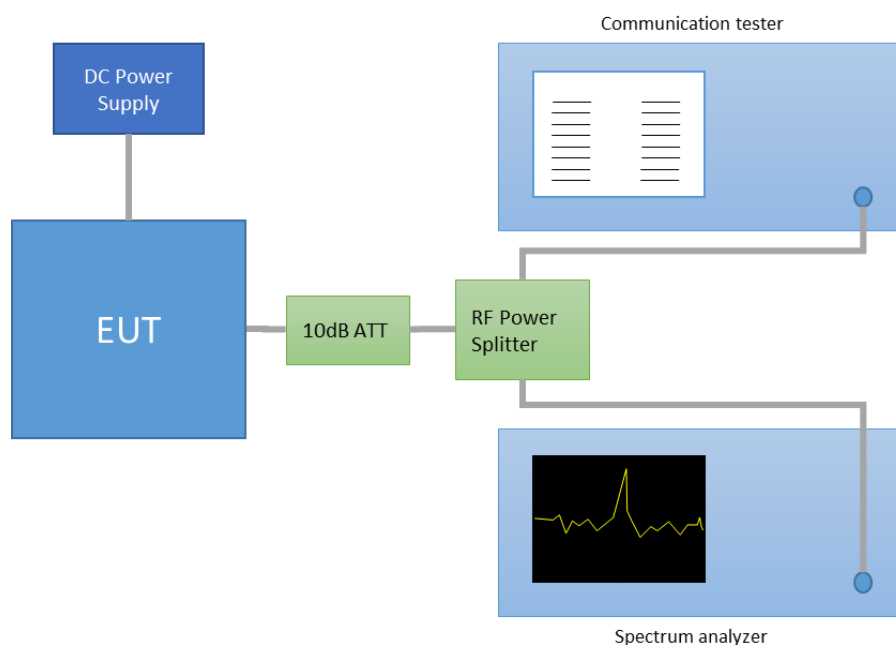
BAND	FCC part
PCS 1900, WCDMA 2	2.1049, 24.238
GSM 850, WCDMA 5	2.1049, 22.917

Test procedure

This test was performed according to the KDB 971168 D01 § 4.1 *Occupied bandwidth – relative (-26dB OBW) measurement procedure* and § 4.2 *Occupied bandwidth – power bandwidth (99%) measurement procedure*.

The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in the worst case modes selected from the *chapter B.2.1 (Conducted RF output power)*

The setup below was used to measure the transmitted occupied bandwidth. The antenna terminal of the EUT is connected to the spectrum analyzer and the communication tester through an attenuator and a power splitter.



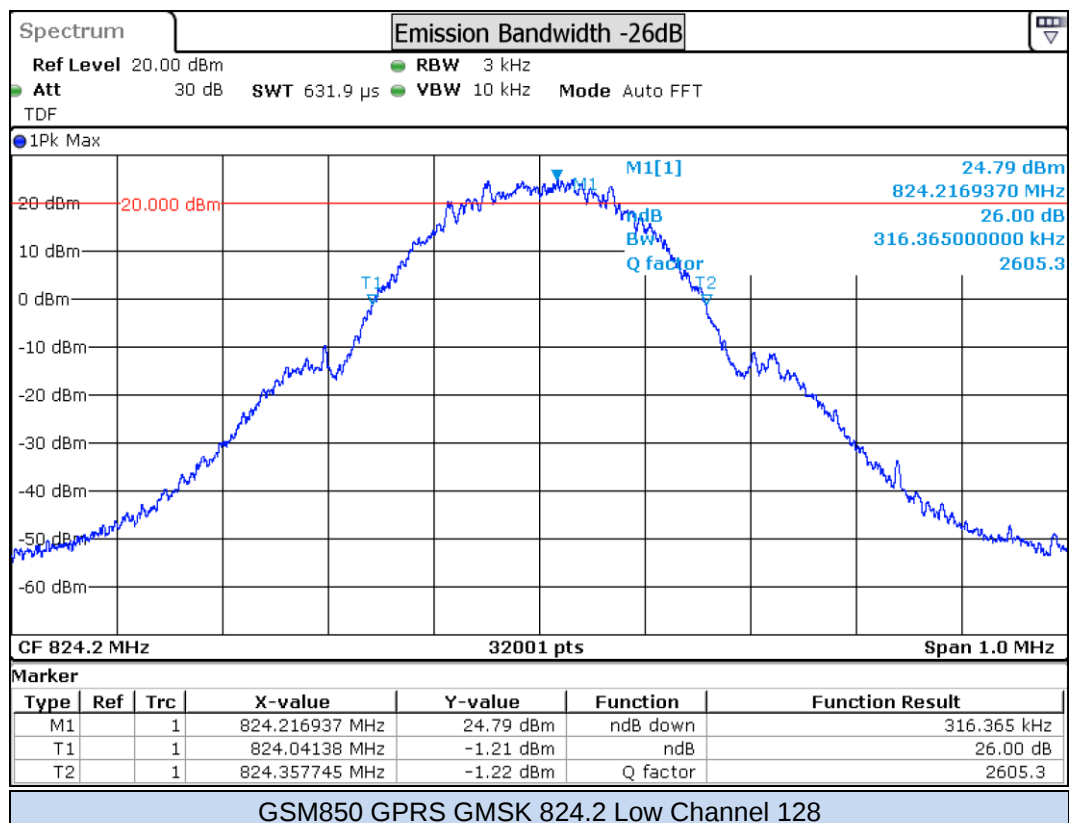
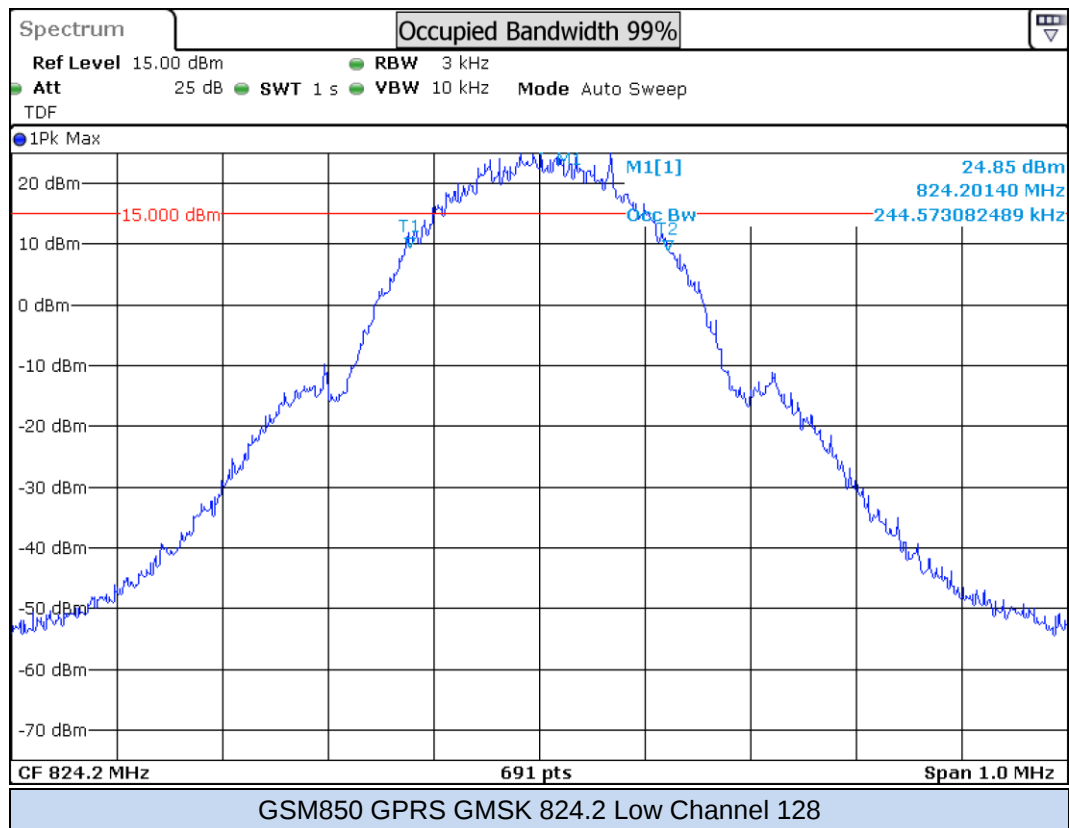
Results tables

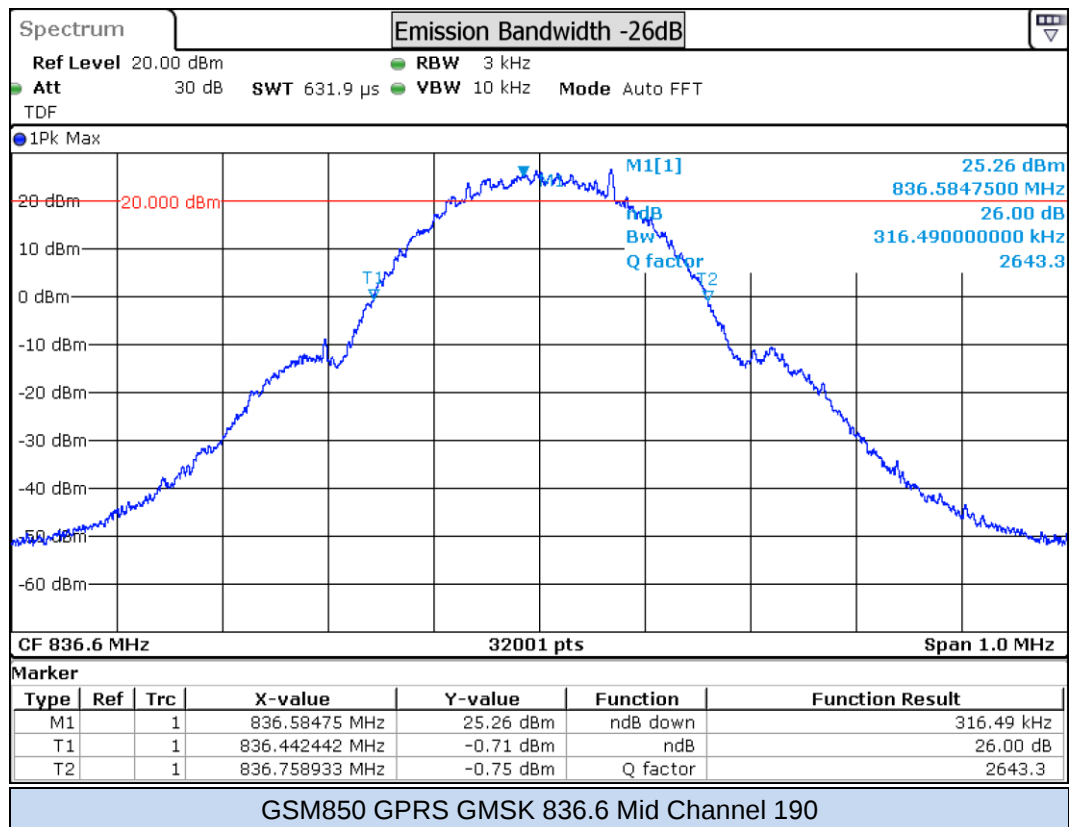
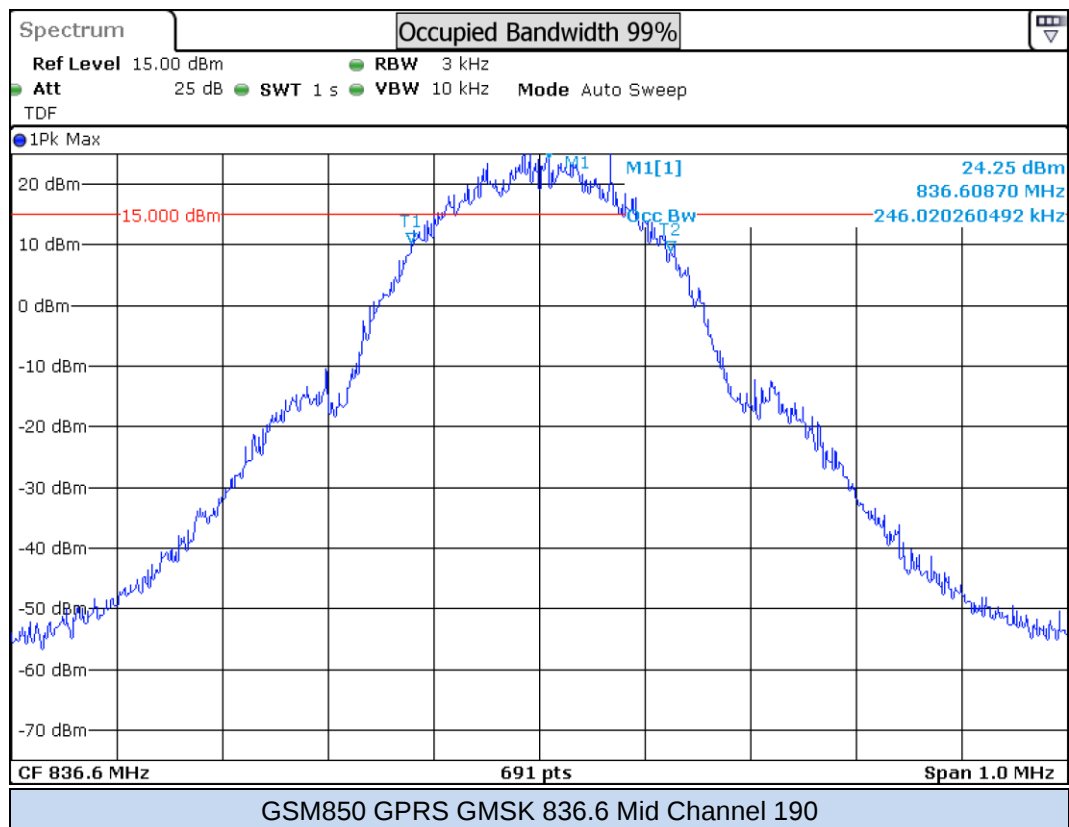
Band	Mode	Channel Number	Freq [MHz]	OBW [MHz]	EBW [MHz]
GSM850	GPRS	128	824.2	0.2445730	0.316365
		190	836.6	0.2460203	0.316490
		251	848.8	0.2460203	0.310678
PCS1900	GPRS	512	1850.2	0.2402315	0.314865
		661	1880	0.2402315	0.314928
		810	1909.8	0.2402315	0.314521

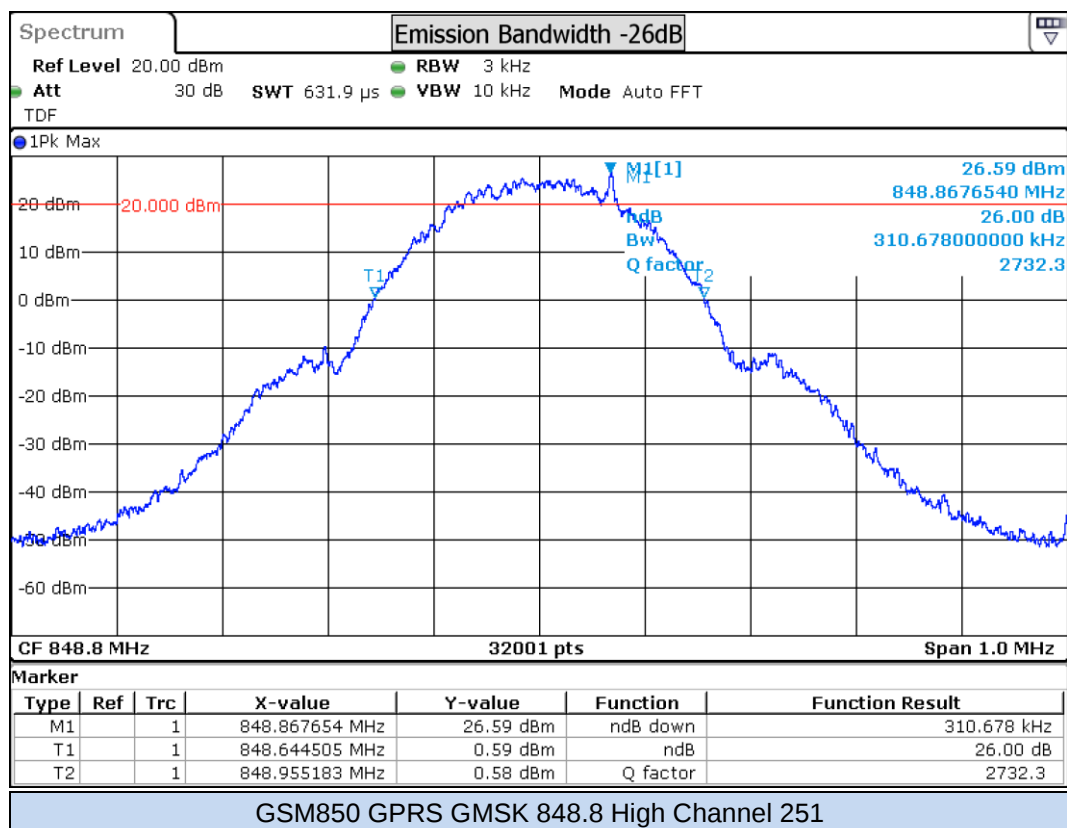
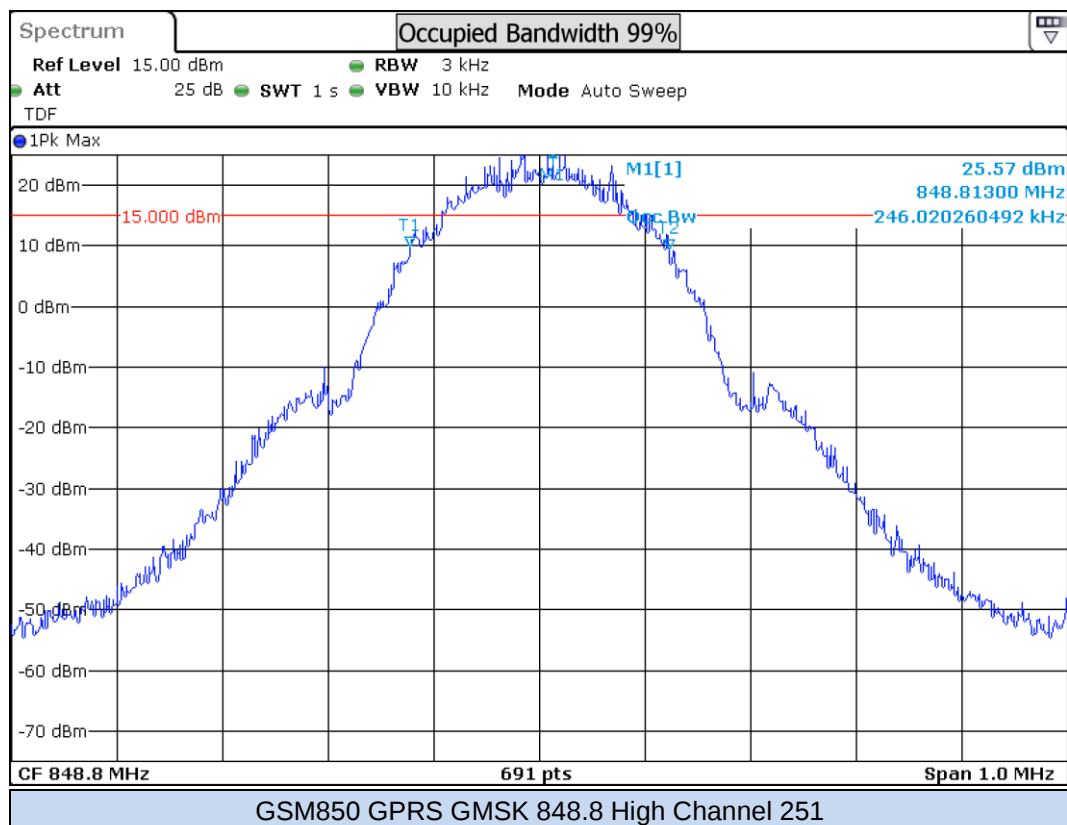
Band	Mode	Channel Number	Freq [MHz]	OBW [MHz]	EBW [MHz]
WCDMA Band II	RMC	9262	1852.4	4.051948	4.60236
		9400	1880.0	4.051948	4.63798
		9538	1907.6	4.051948	4.61361
	HSUPA	9262	1852.4	4.051948	4.57298
		9400	1880.0	4.051948	4.64048
		9538	1907.6	4.051948	4.62486
WCDMA Band V	RMC	4132	826.4	4.039960	4.59861
		4183	836.6	4.051948	4.59486
		4233	846.6	4.051948	4.60923
	HSUPA	4132	826.4	4.051948	4.61173
		4183	836.6	4.051948	4.61923
		4233	846.6	4.039960	4.60673

Results screenshot

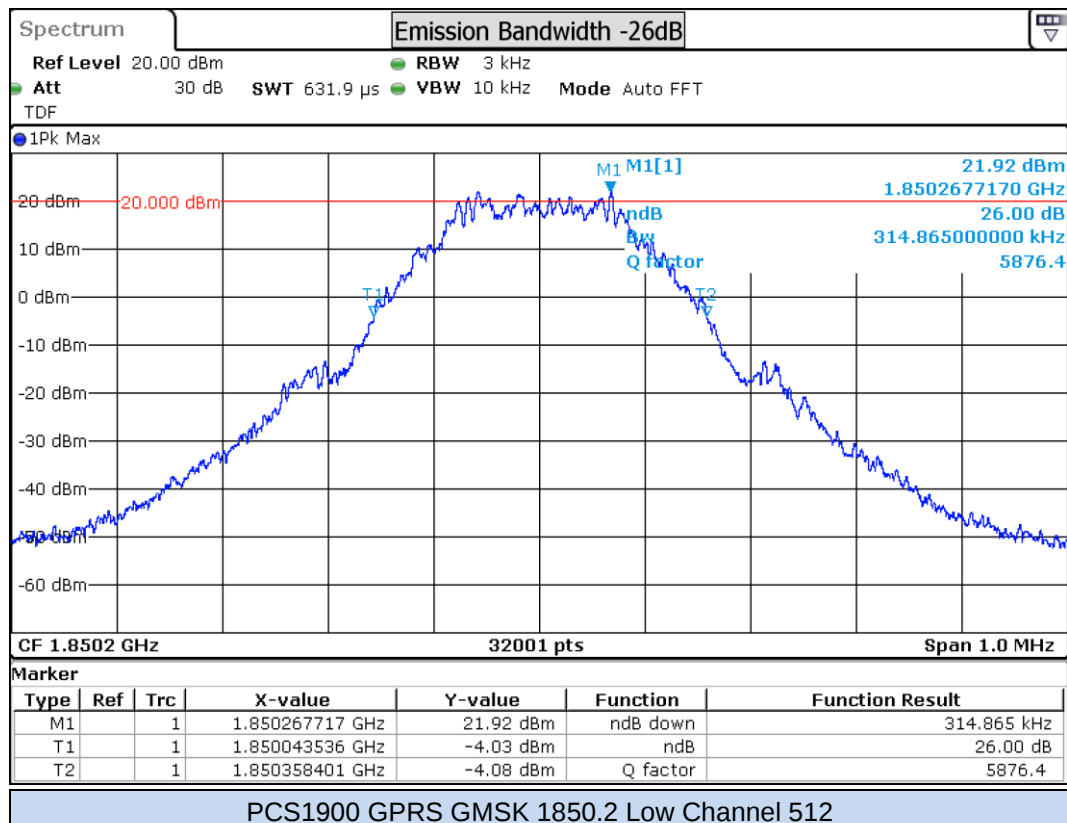
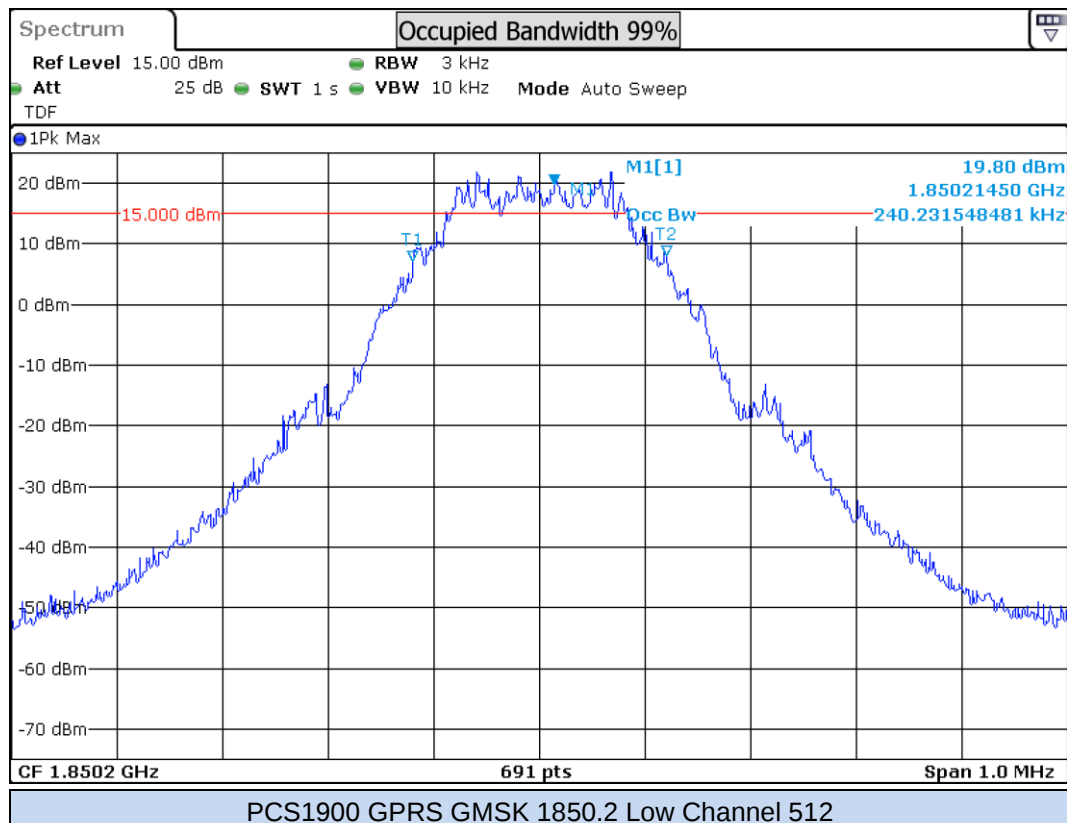
GSM 850

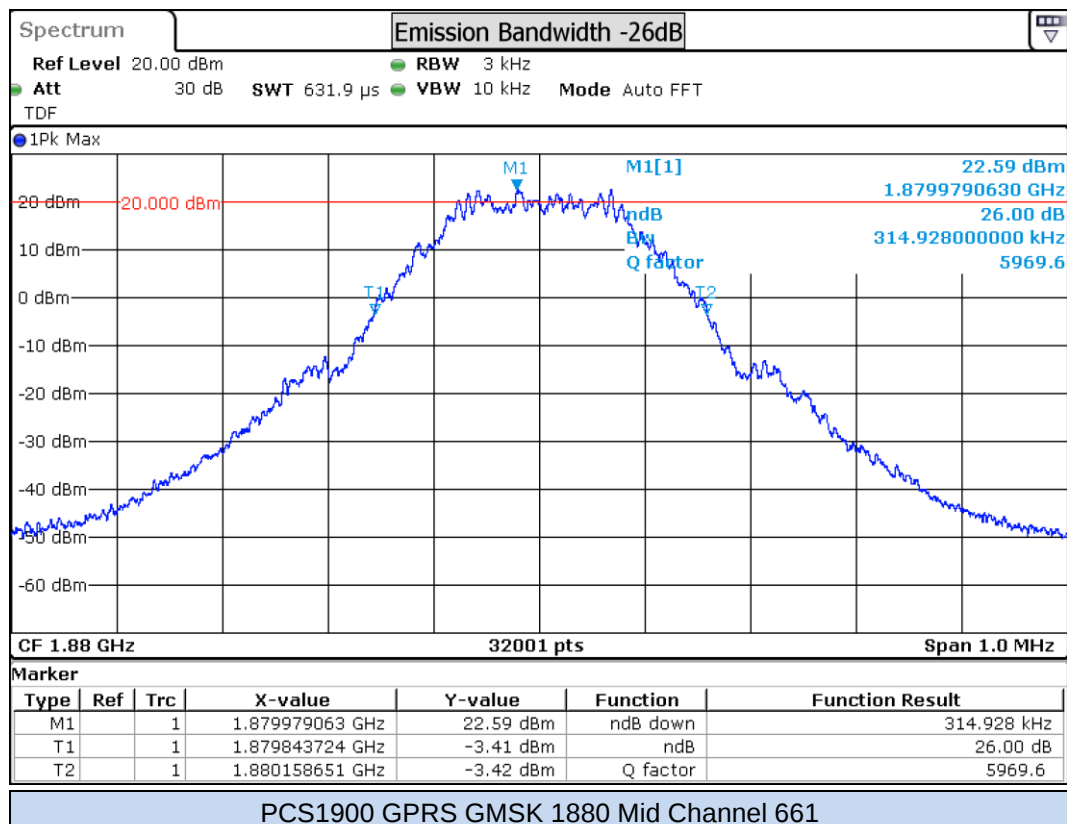
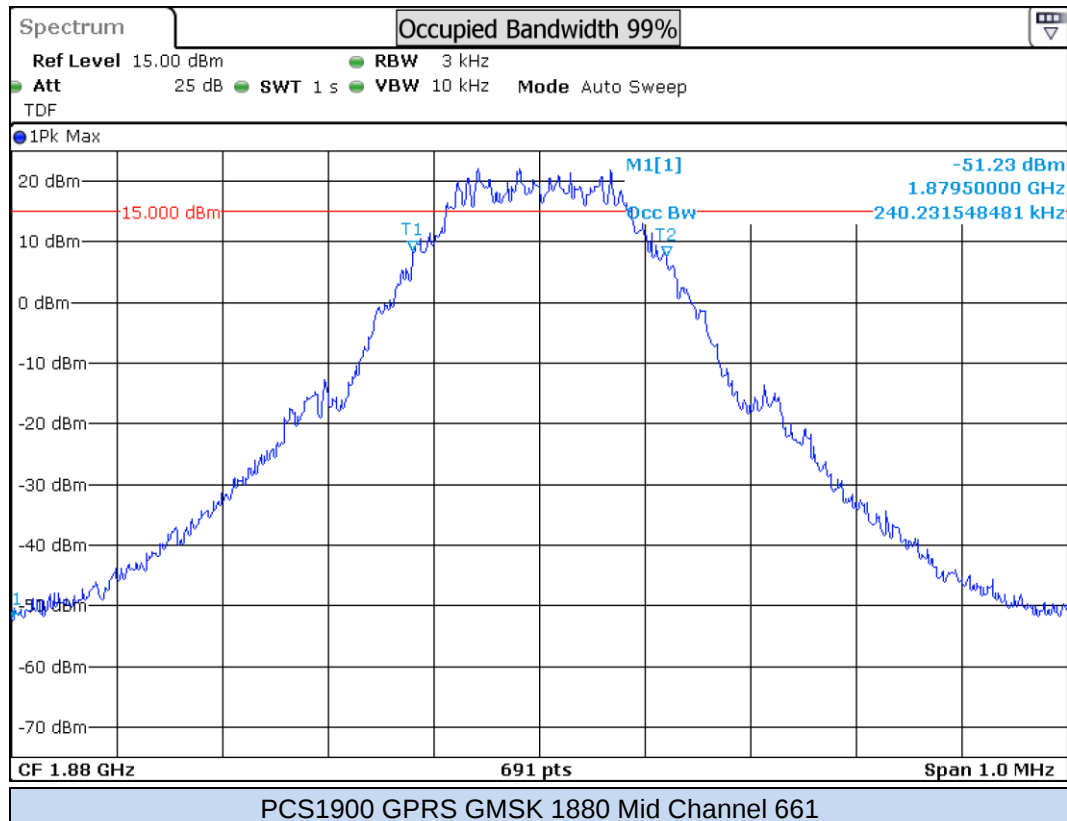


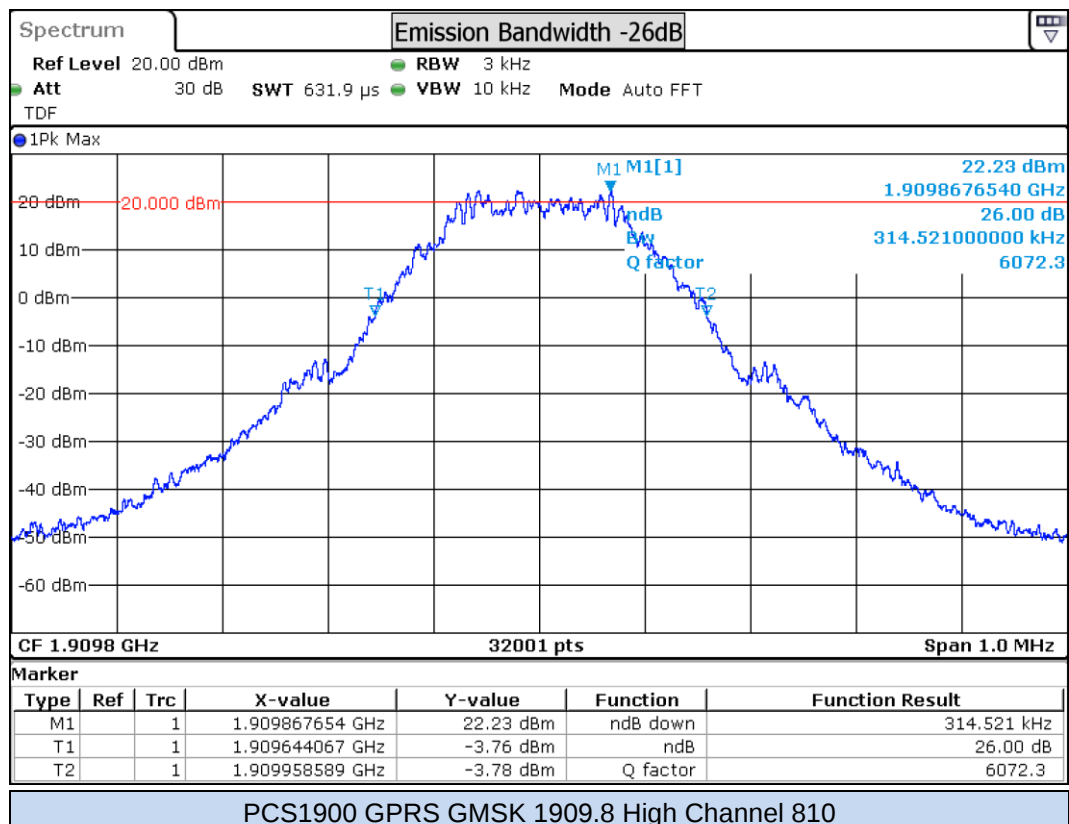
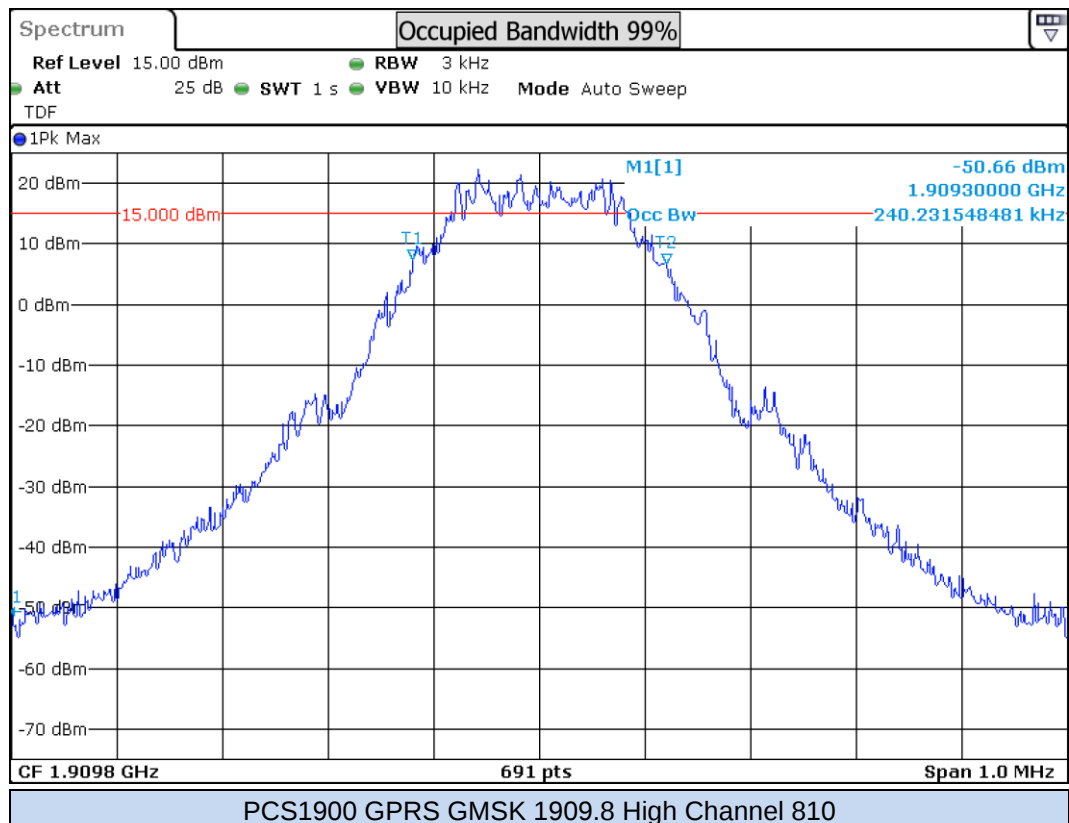




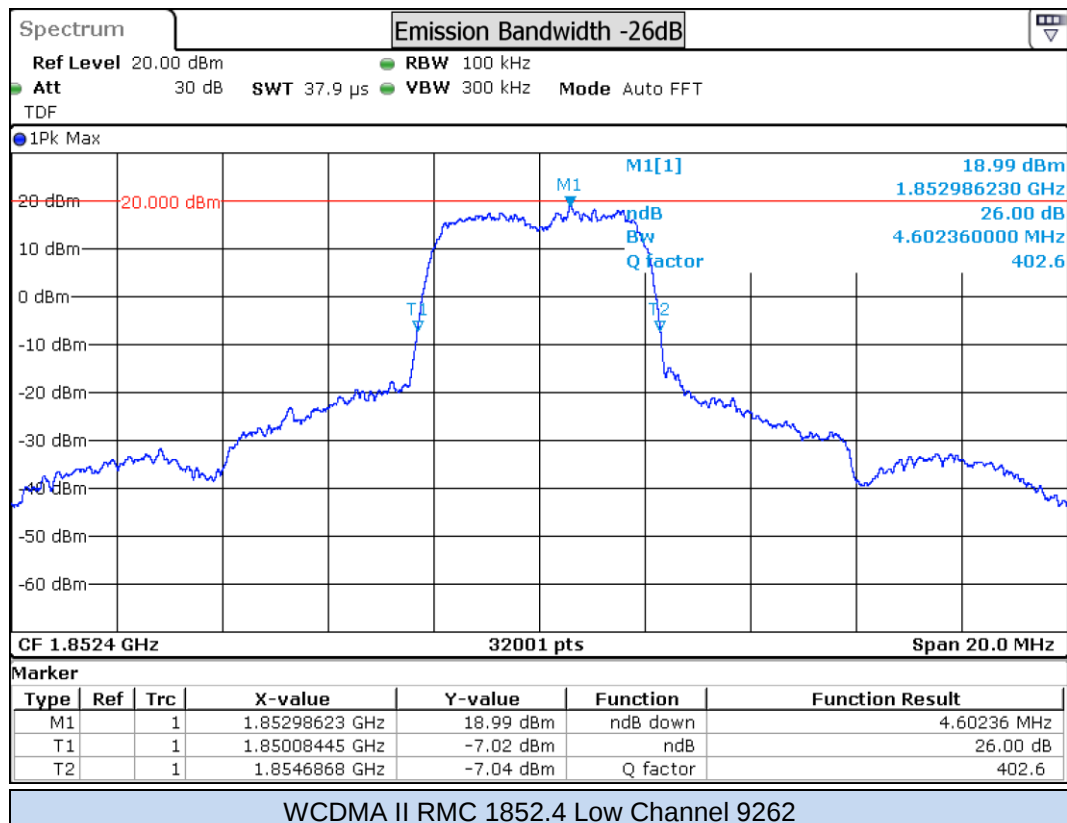
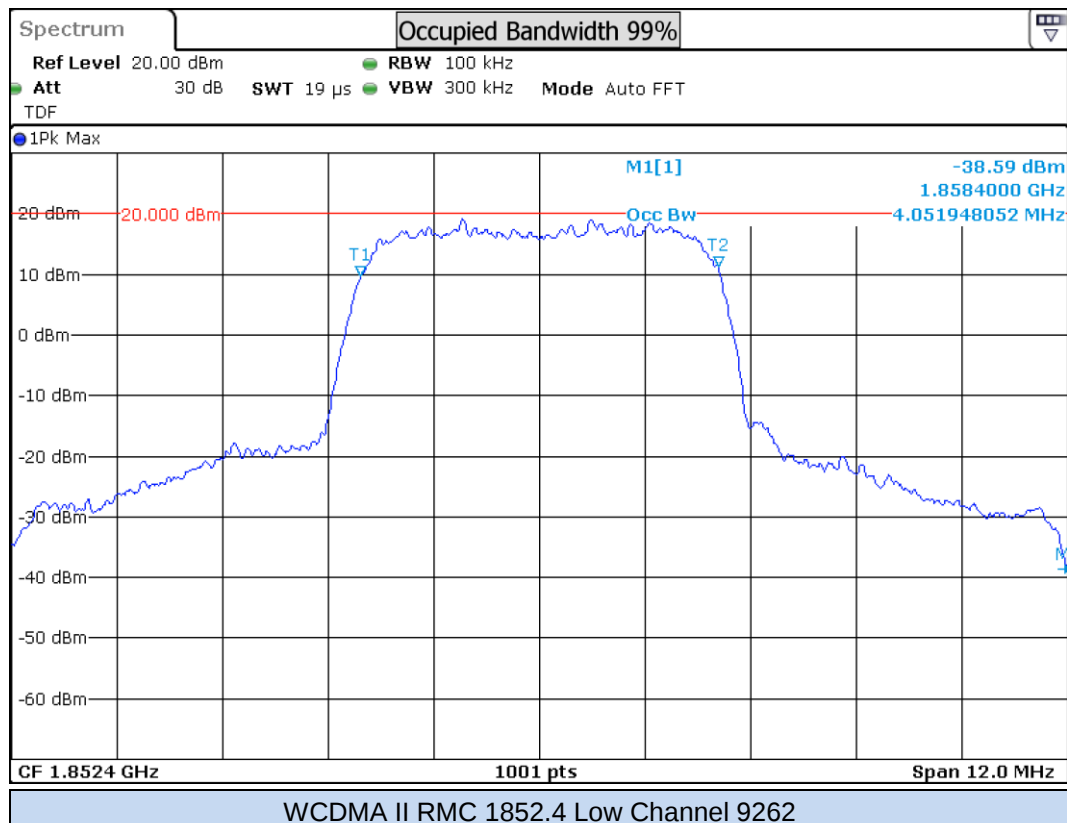
PCS 1900

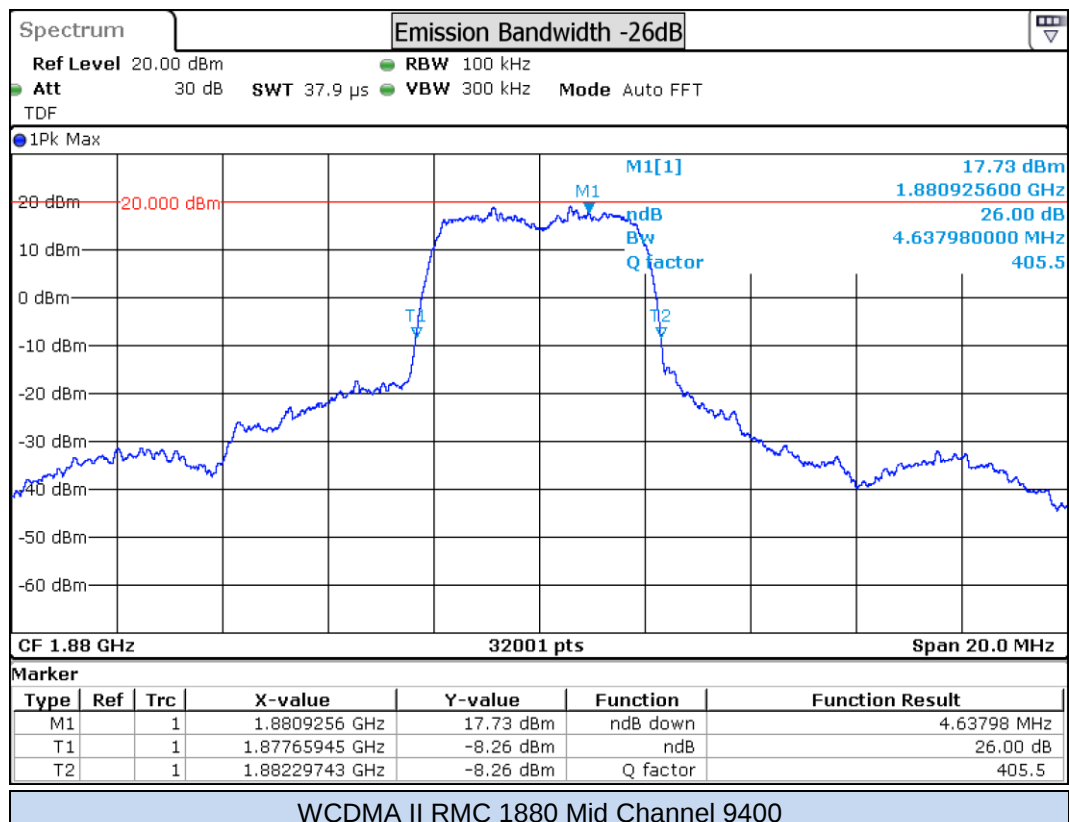
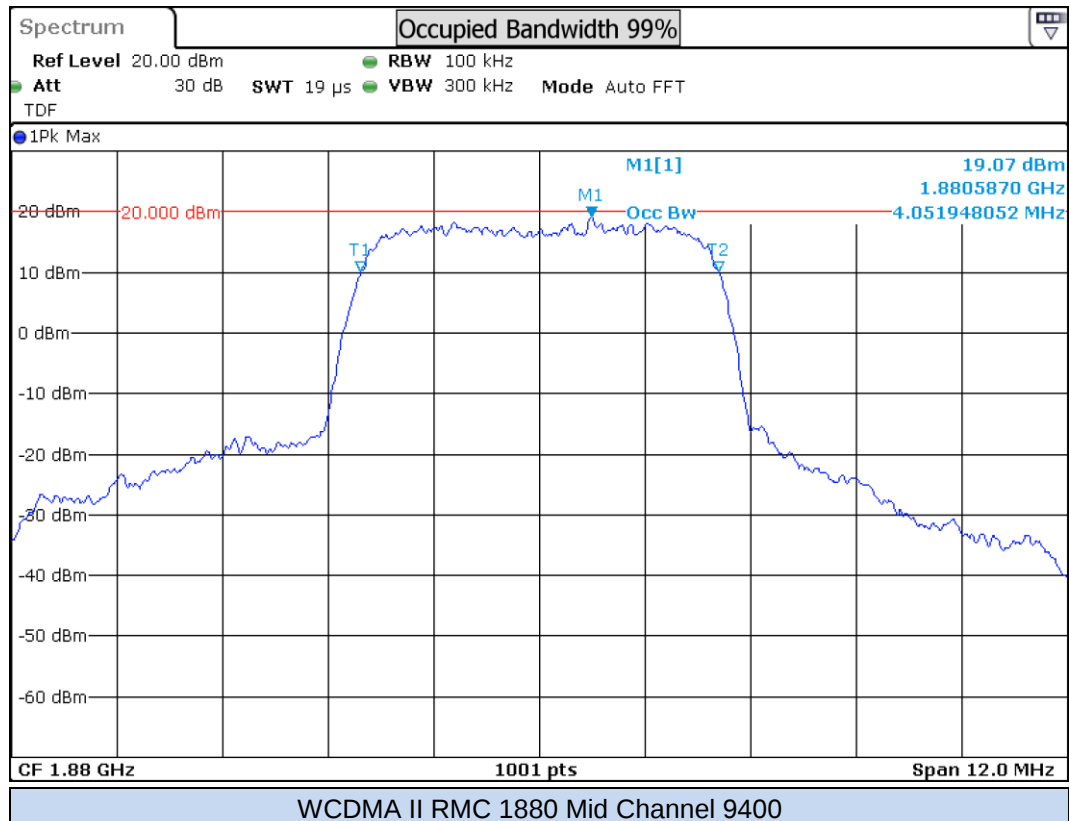


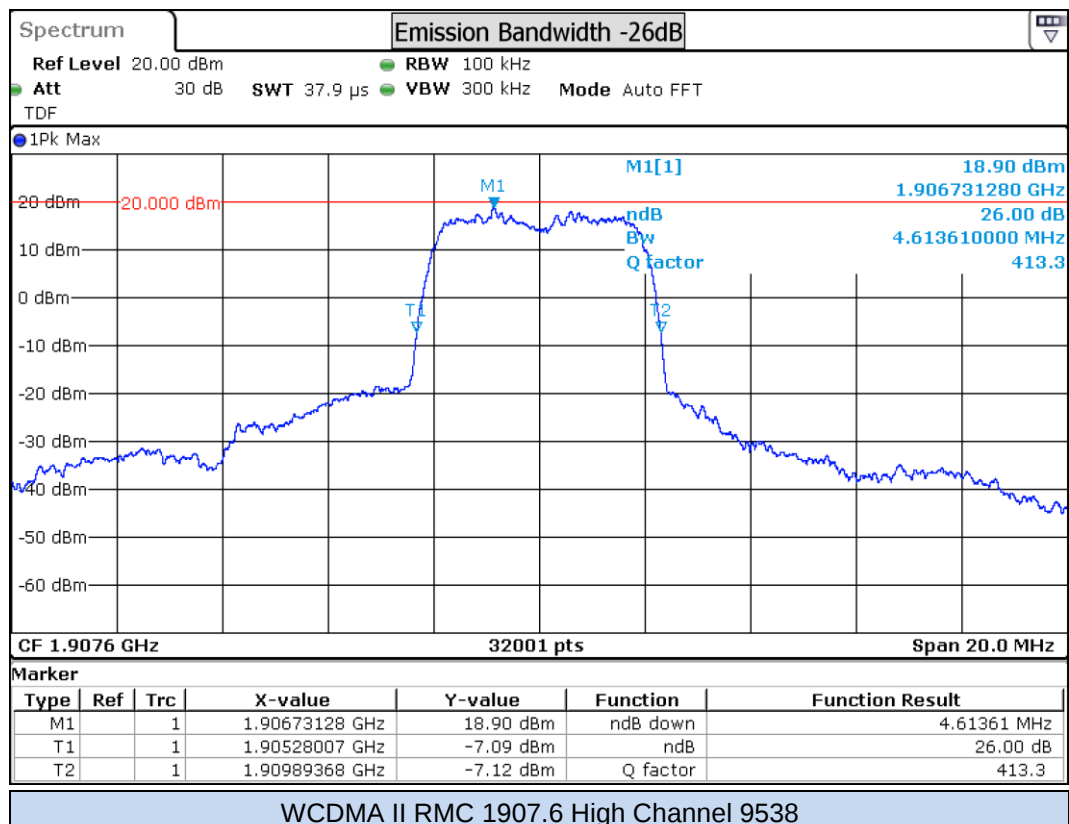
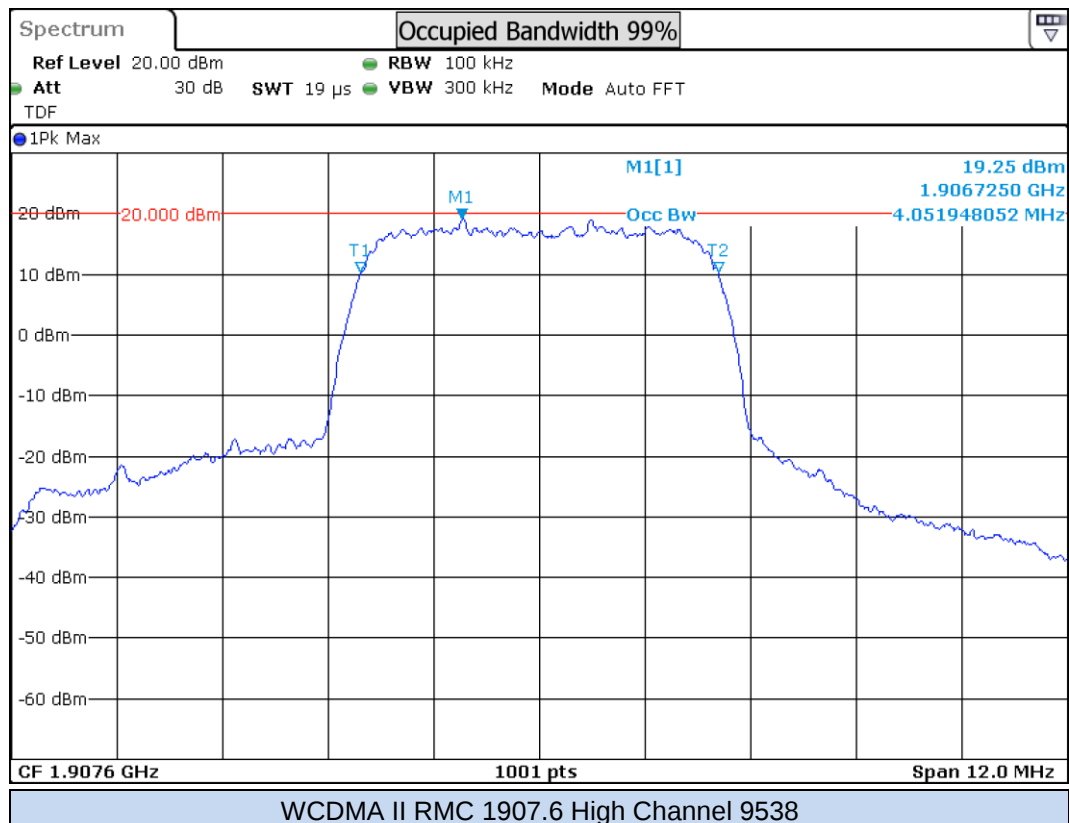


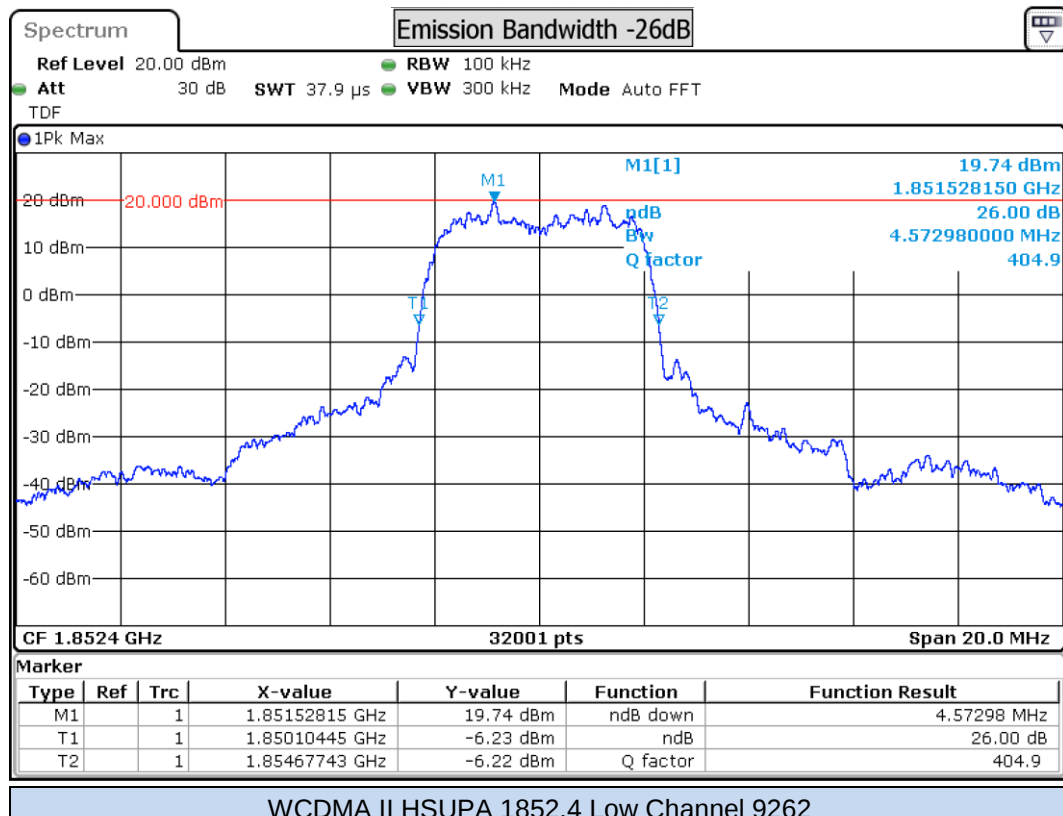
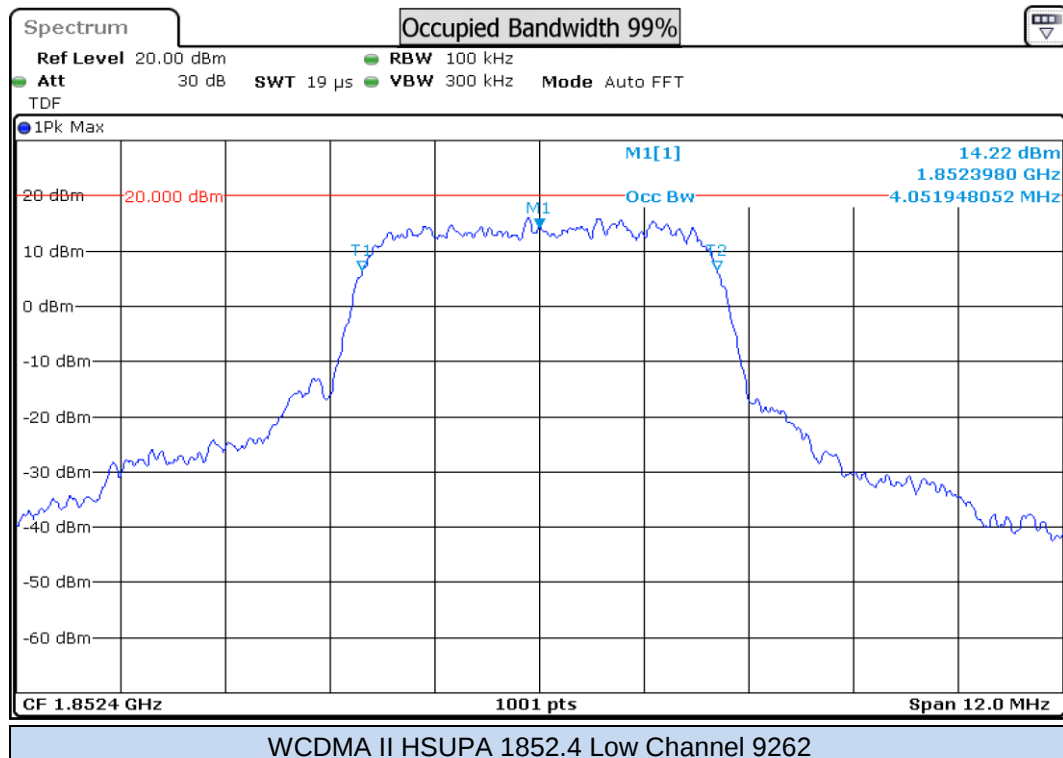


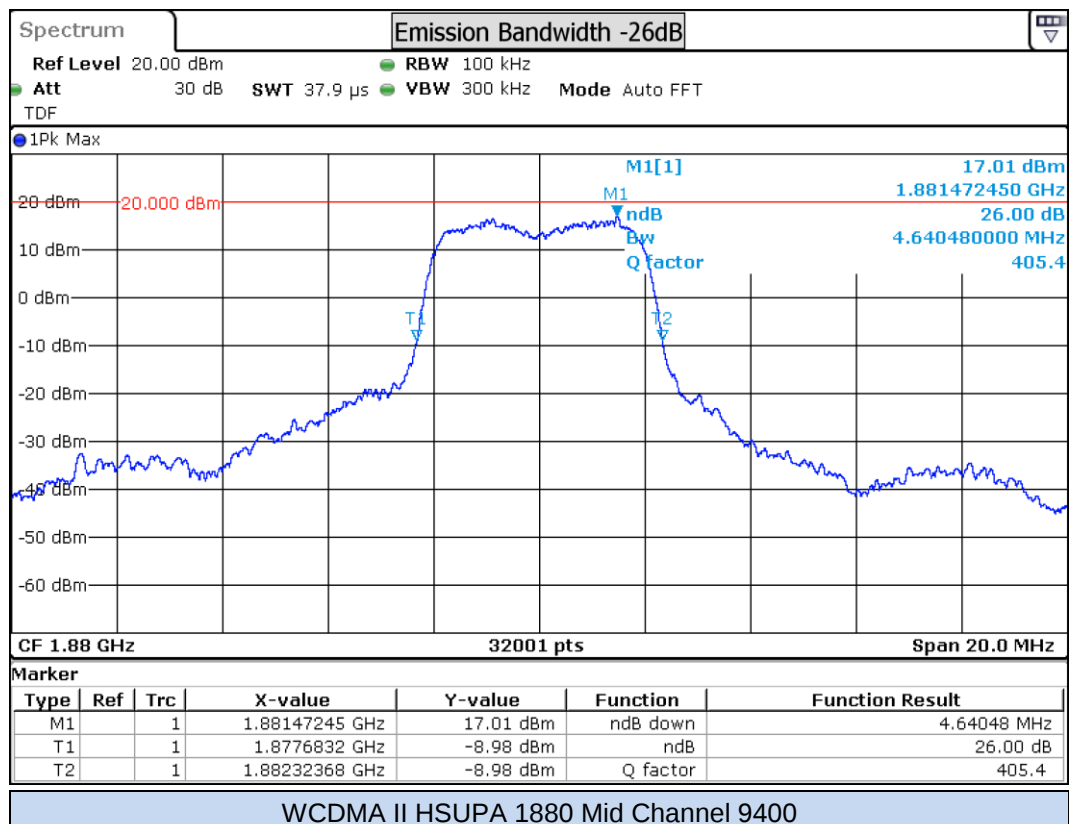
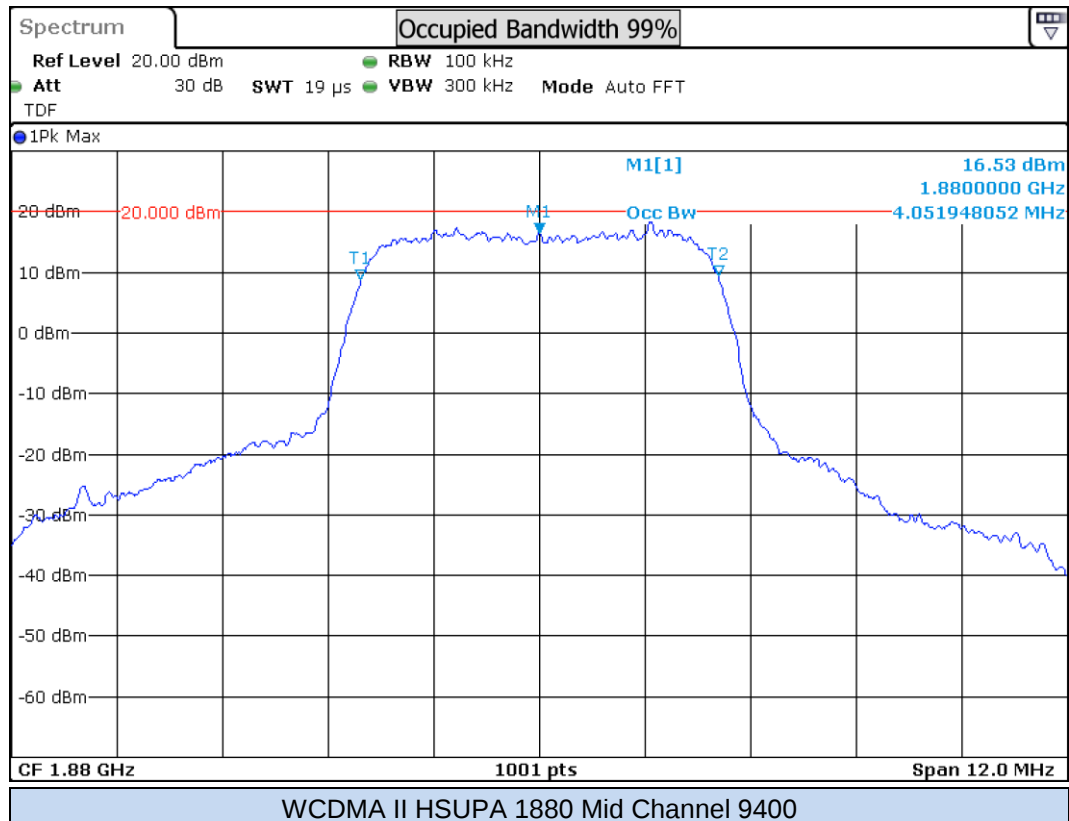
WCDMA Band II

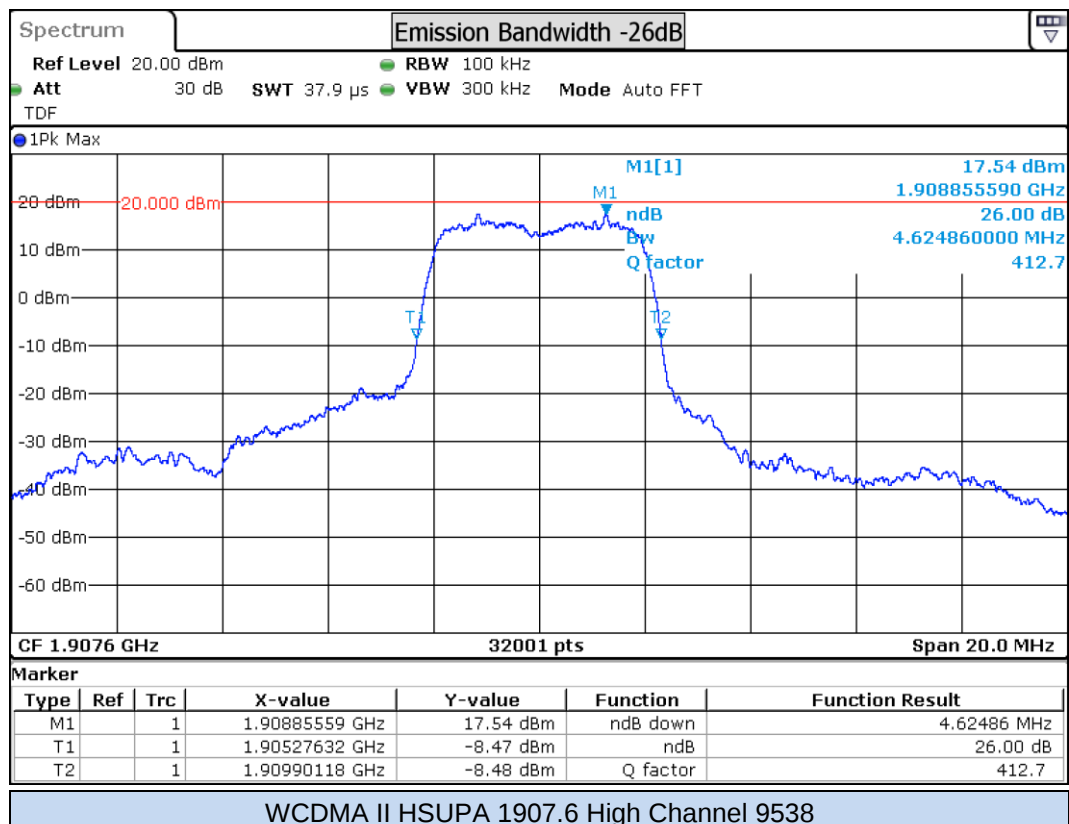
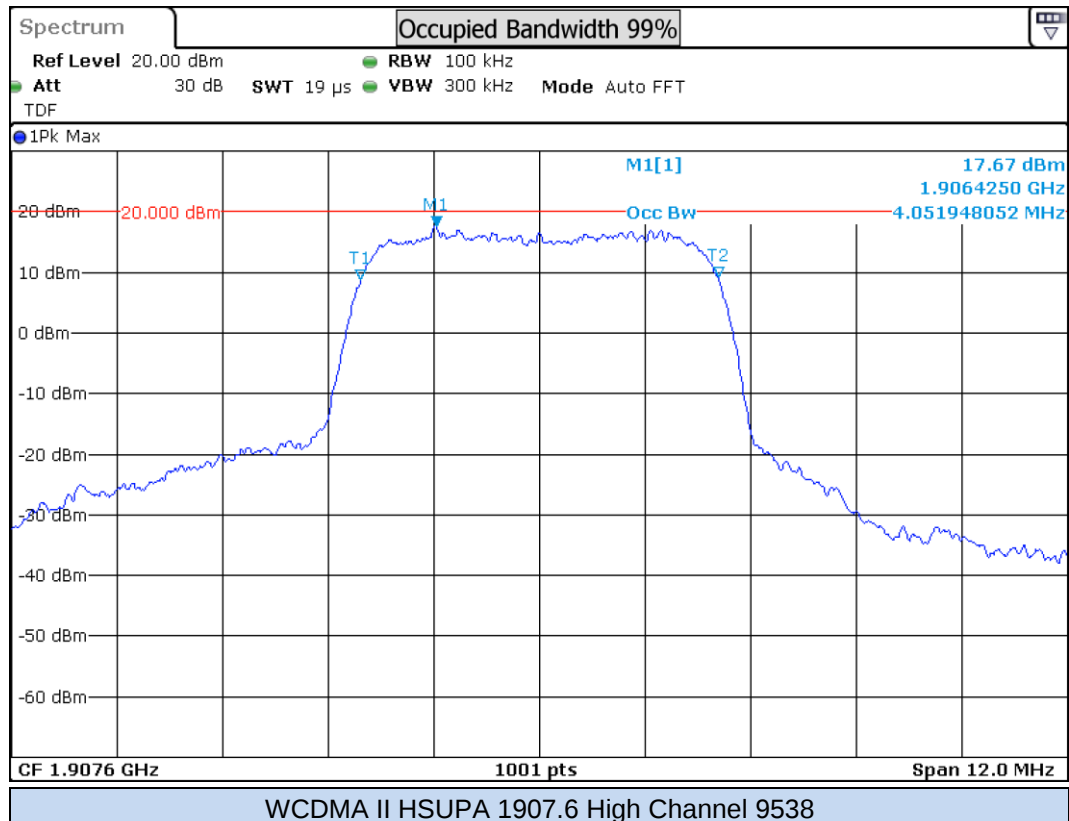




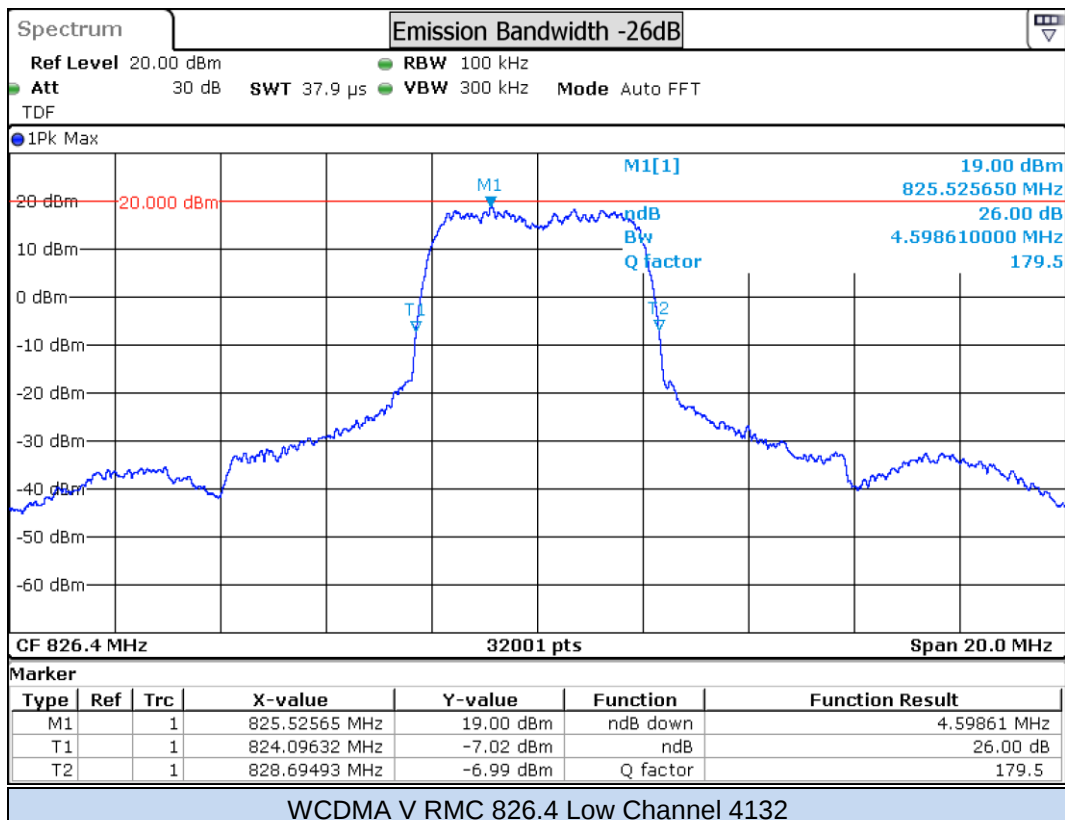
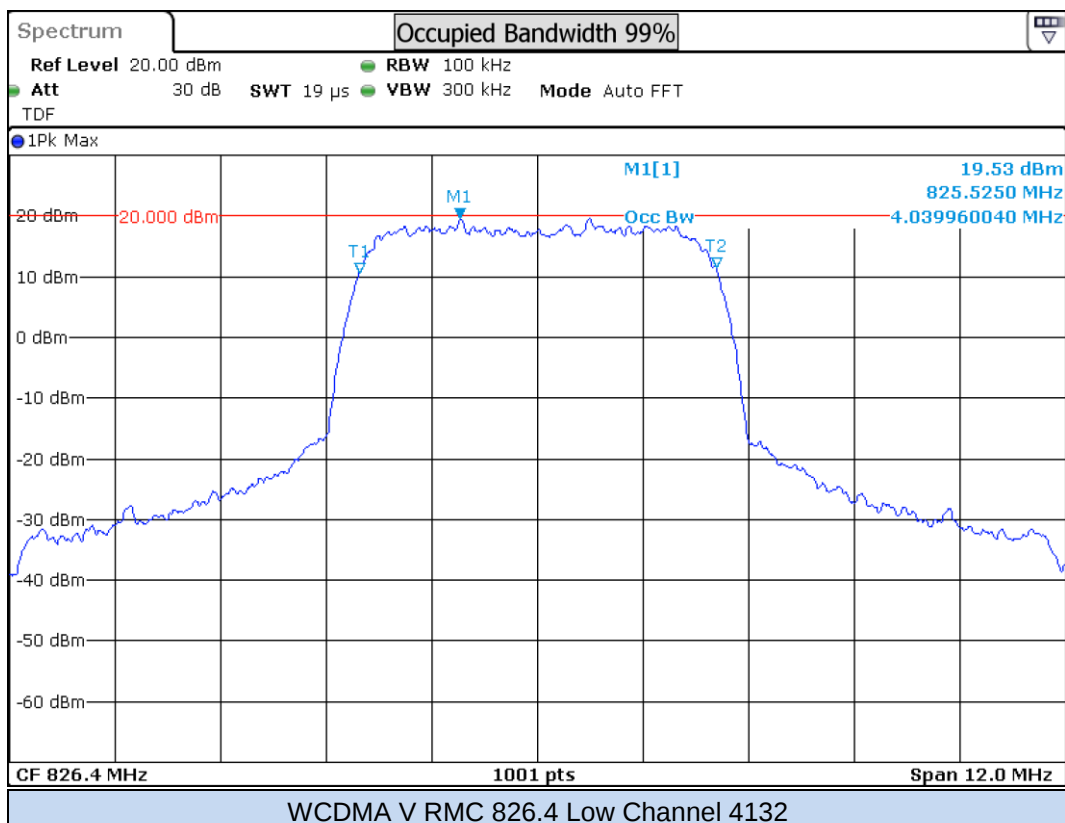


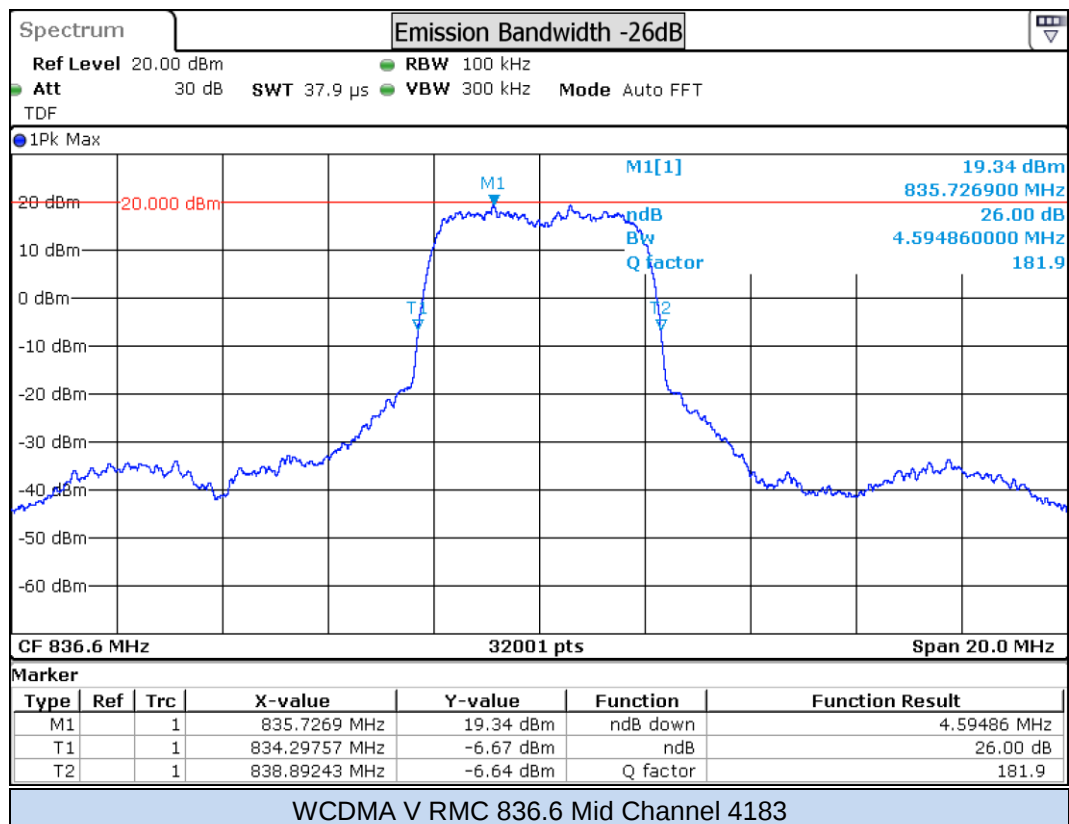
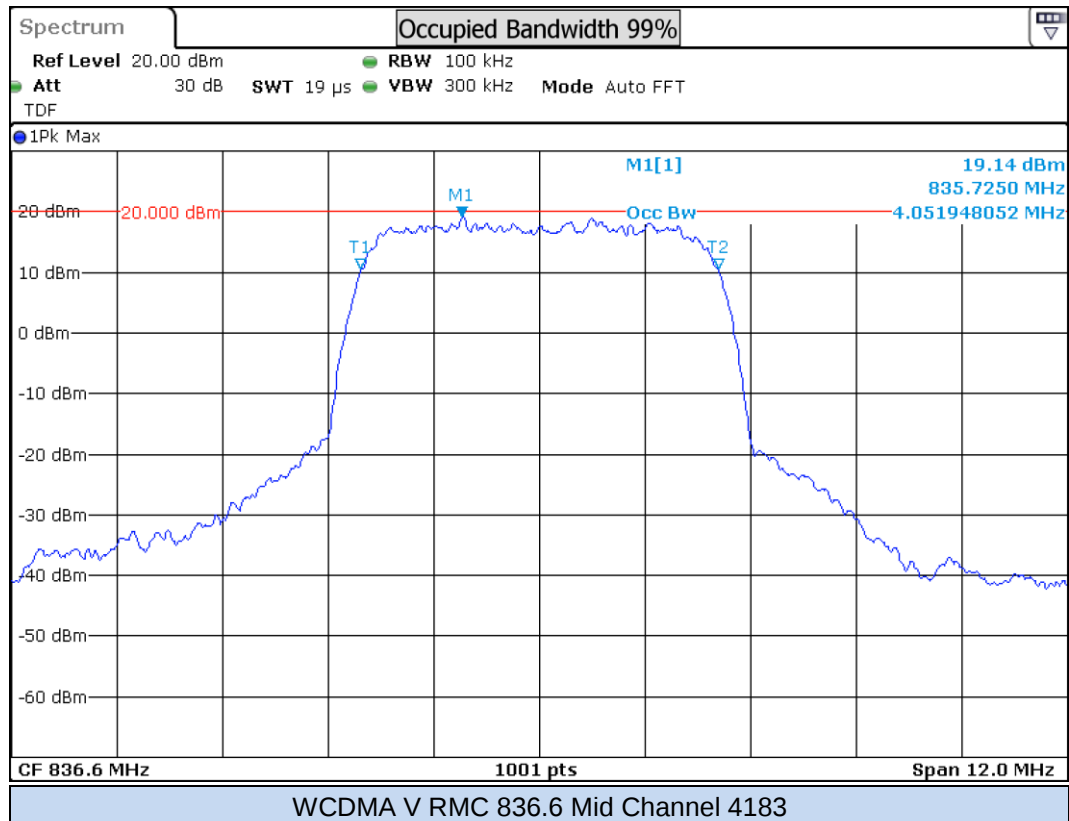


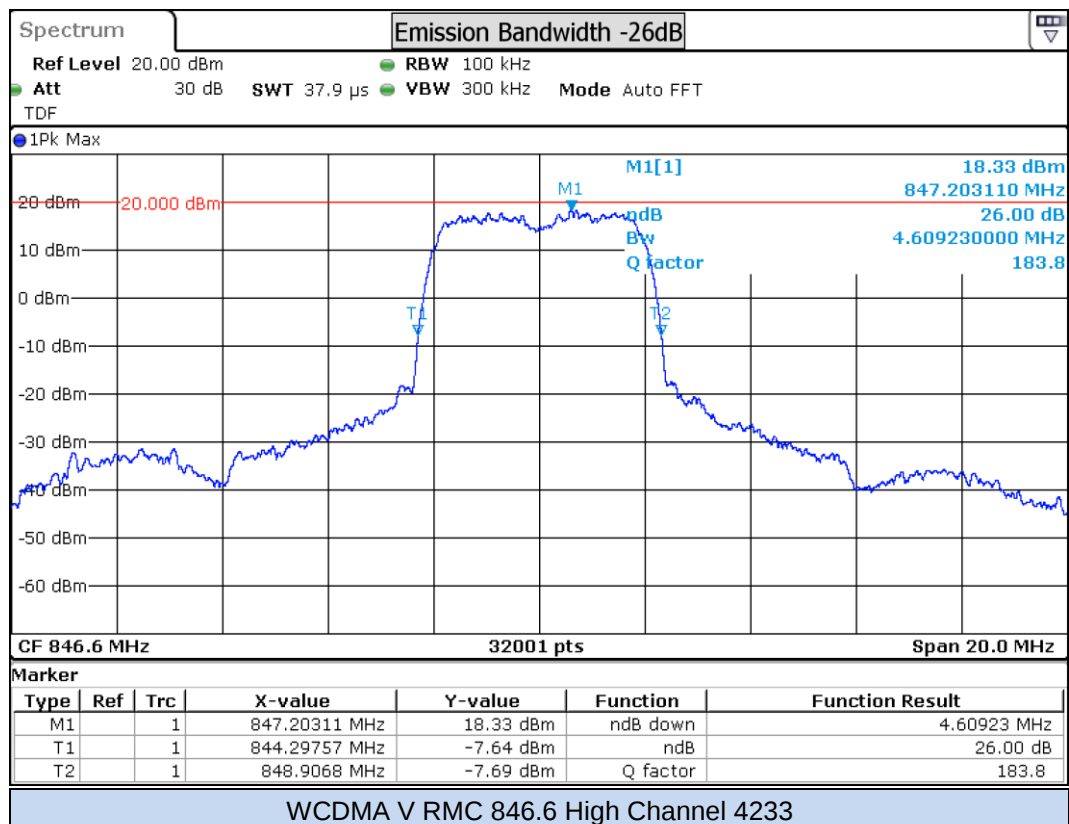
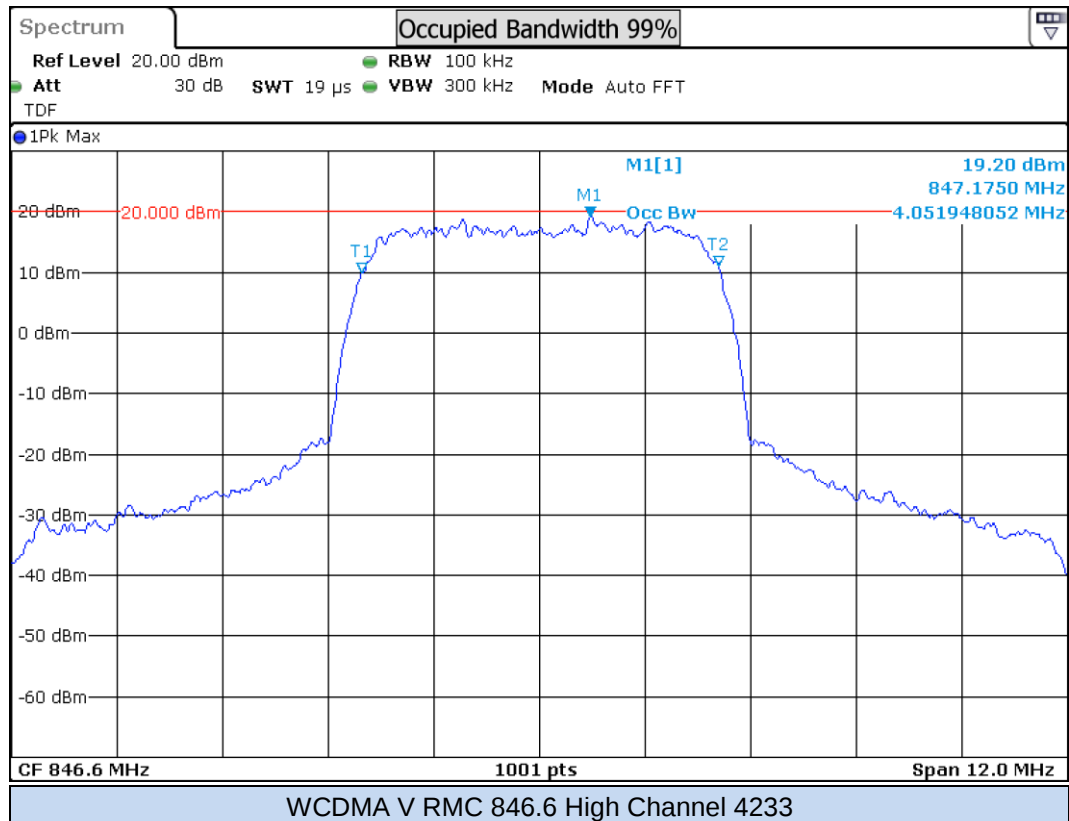


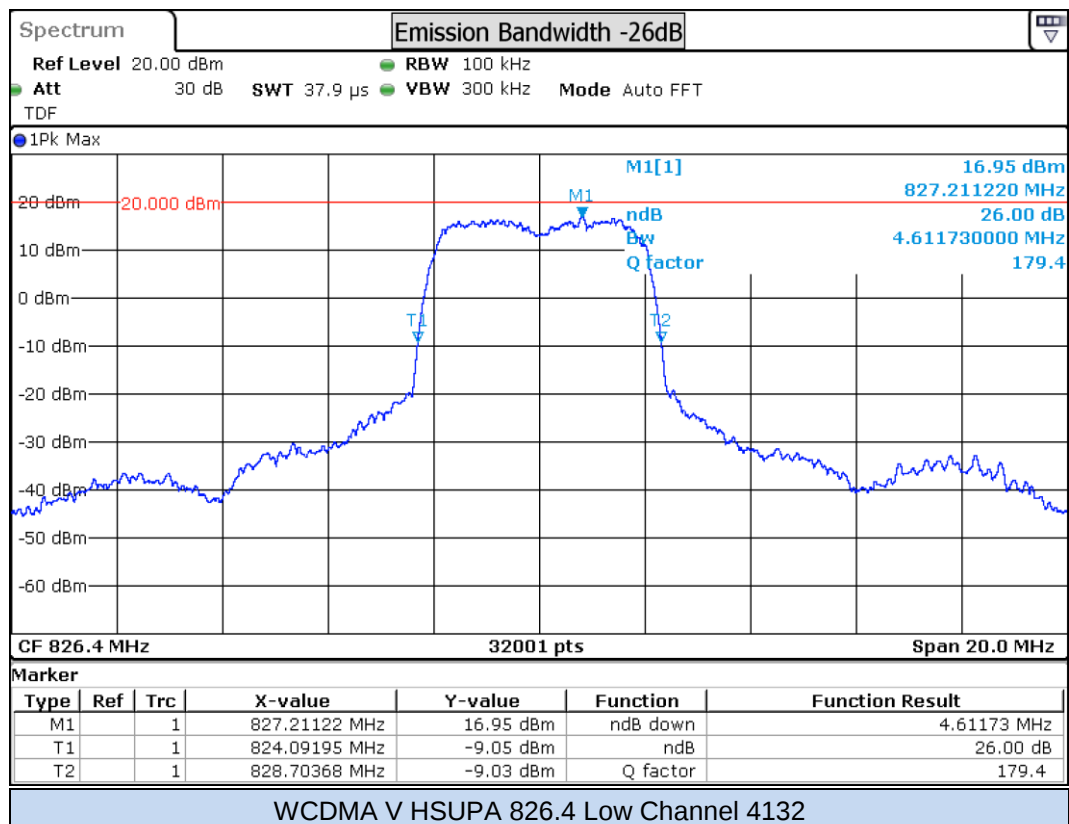
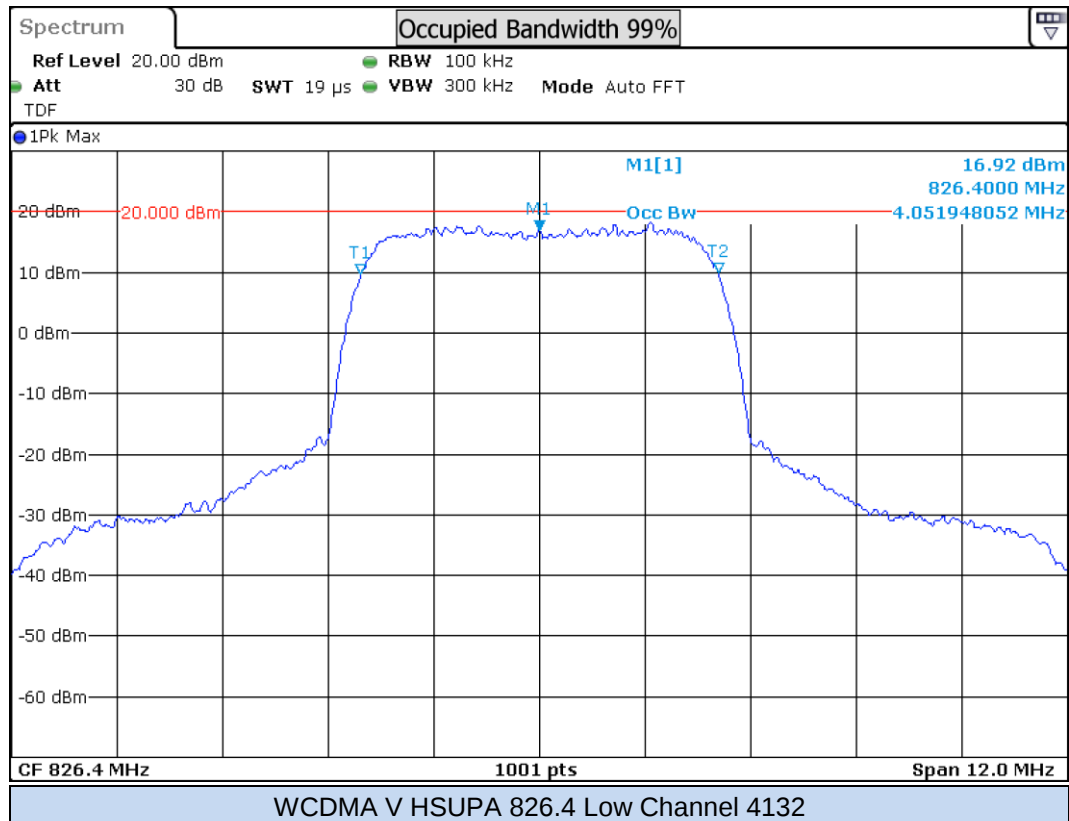


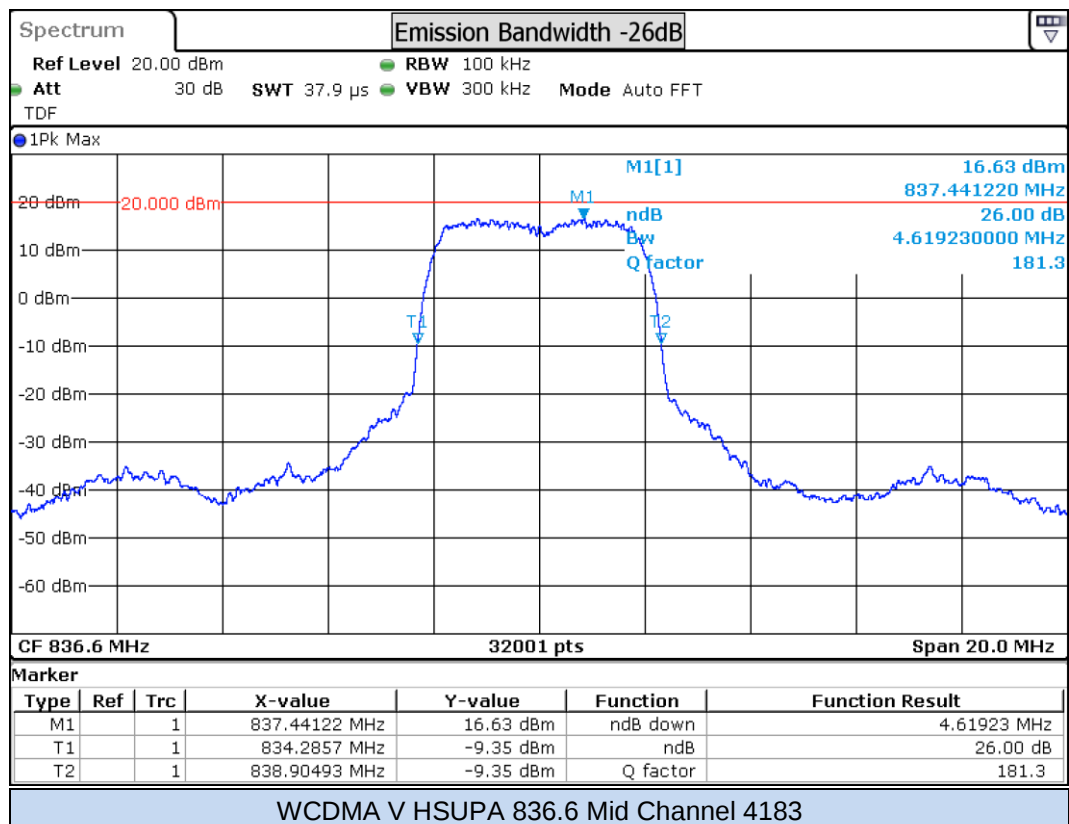
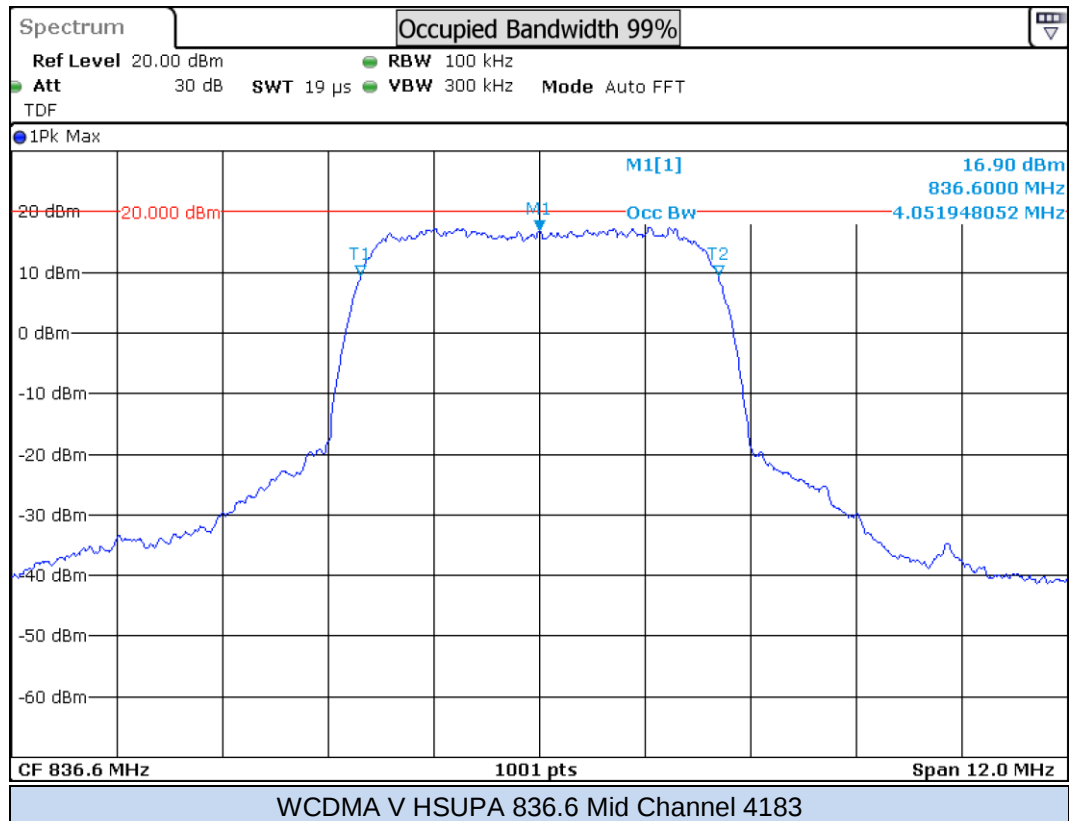
WCDMA Band V

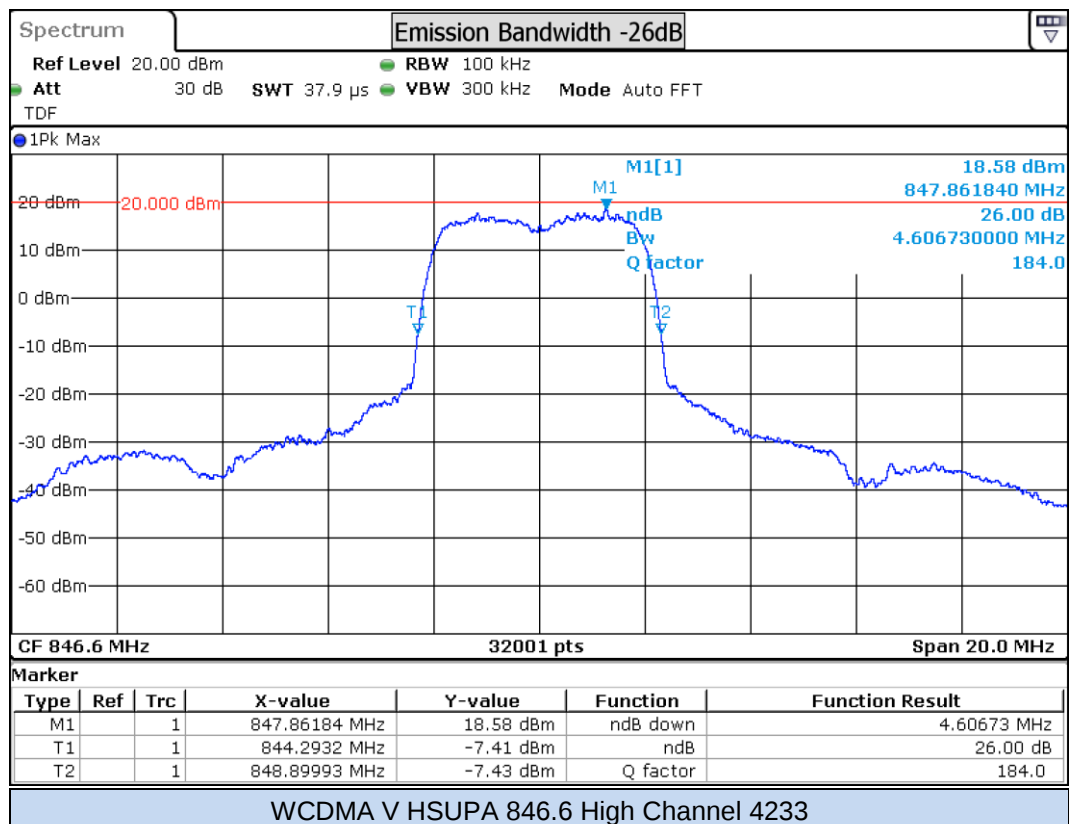
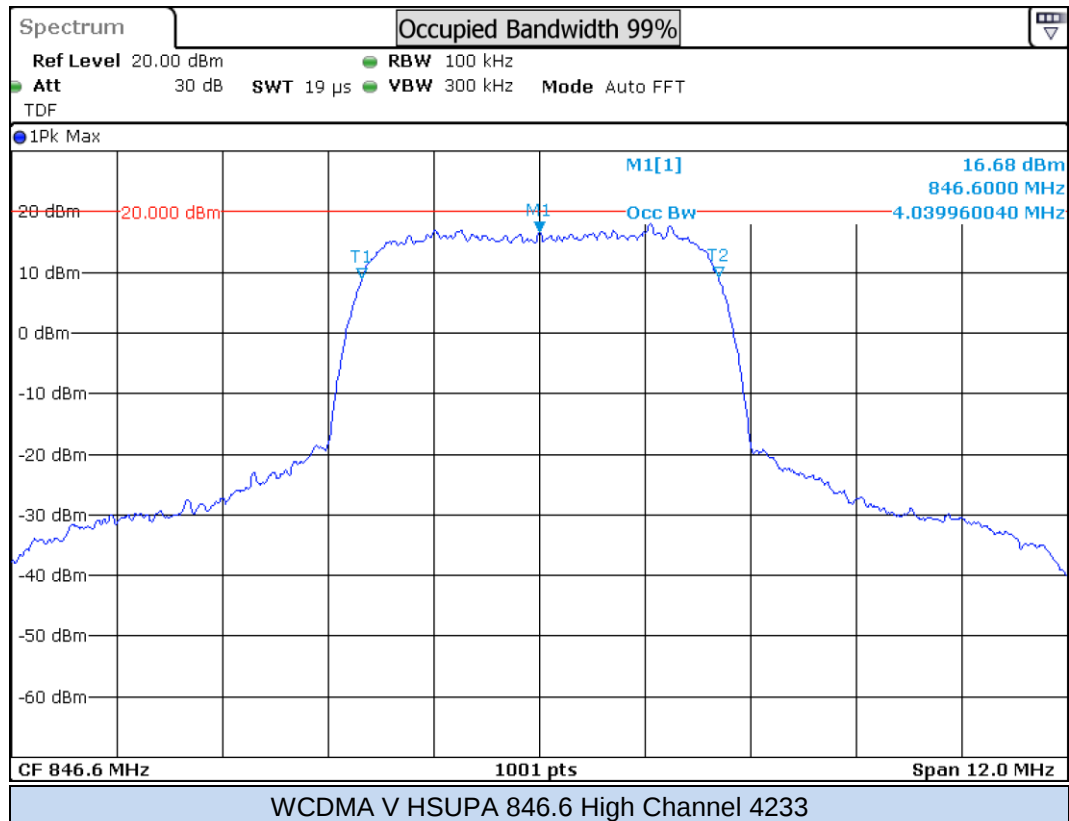












B.2.3 Peak to average power ratio

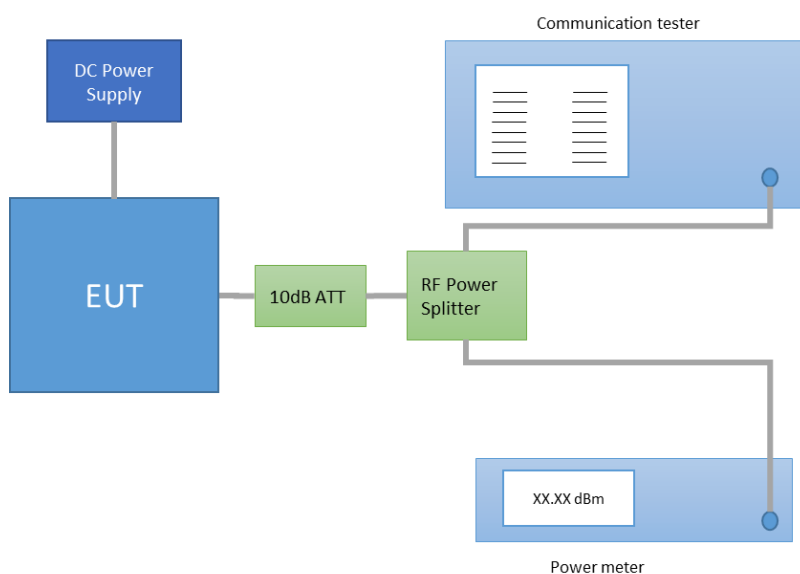
Standard references

BAND	FCC part	Limits
PCS 1900 WCDMA II	24.232	§24.232 - In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB
GSM 850 WCDMA V	-	

Test procedure

The setup below was used to measure the transmitted peak and average power. The antenna terminal of the EUT is connected to the power meter and the communication tester through an attenuator and a power splitter. This test was performed according to the KDB 971168 D01 § 5.7.2, § 5.1.2, § 5.2.3. PAPR is determined from:

$$PAPR(dB) = P_{Pk}(dBm) - P_{Avg}(dBm)$$



Results table

GSM

Band	Mode	Channel Number	Frequency [MHz]	#UL Slots	Average [dBm]	Peak [dBm]	PAPR [dB]
GSM850	GMSK	128	824.2	1	32.24	32.60	0.36
				2	28.56	28.99	0.43
				3	26.71	27.16	0.45
				4	25.50	25.97	0.47
		190	836.6	1	32.28	32.64	0.36
				2	28.50	29.03	0.53
				3	26.67	27.18	0.51
				4	25.53	26.01	0.48
		251	848.8	1	32.37	32.69	0.32
				2	28.55	29.03	0.48
				3	26.68	27.19	0.51
				4	25.50	26.02	0.52

PCS

Band	Mode	Channel Number	Frequency [MHz]	#UL Slots	Average [dBm]	Peak [dBm]	PAPR [dB]
PCS1900	GMSK	512	1850.2	1	29.10	29.49	0.39
				2	26.05	26.47	0.42
				3	24.03	24.52	0.49
				4	22.80	23.30	0.50
		661	1880	1	29.22	29.55	0.33
				2	26.06	26.51	0.45
				3	24.08	24.57	0.49
				4	22.86	23.33	0.47
		810	1909.8	1	29.59	29.16	0.43
				2	26.13	26.55	0.42
				3	24.60	24.18	0.42
				4	22.85	23.36	0.51

WCDMA

Band	Mode	Channel Number	Frequency [MHz]	Subtest	Average [dBm]	Peak [dBm]	PAPR [dB]
WCDMA II	RMC	9262	1852.4	-	23.38	26.73	3.35
		9400	1880	-	23.40	26.67	3.27
		9538	1907.6	-	23.31	26.44	3.13
	HSDPA	9262	1852.4	1	22.71	26.42	3.71
				2	22.73	26.43	3.70
				3	22.72	26.42	3.70
				4	22.75	26.45	3.70
		9400	1880	1	22.75	26.49	3.74
				2	22.76	26.46	3.70
				3	22.80	26.49	3.69
				4	22.79	26.48	3.69
		9538	1907.6	1	22.56	26.08	3.52
				2	22.53	26.00	3.47
				3	22.55	26.03	3.48
				4	22.57	26.04	3.47
	HSUPA	9262	1852.4	1	21.68	26.49	4.81
				2	22.21	26.46	4.25
				3	21.18	26.30	5.12
				4	22.49	26.22	3.73
				5	23.38	27.52	4.14
		9400	1880	1	21.71	26.37	4.66
				2	22.20	26.45	4.25
				3	21.22	26.21	4.99
				4	22.53	26.21	3.68
				5	23.40	27.54	4.14
		9538	1907.6	1	21.56	26.03	4.47
				2	22.08	26.15	4.07
				3	21.08	25.94	4.86
				4	22.33	25.85	3.52
				5	23.30	27.51	4.21

Band	Mode	Channel Number	Frequency [MHz]	Subtest	Average [dBm]	Peak [dBm]	PAPR [dB]
WCDMA V	RMC	4132	826.4	-	23.69	27.39	3.70
		4183	836.6	-	23.57	27.00	3.43
		4233	846.6	-	23.50	27.26	3.76
	HSDPA	4132	826.4	1	23.38	27.53	4.15
				2	23.43	27.59	4.16
				3	23.43	27.56	4.13
				4	23.43	27.62	4.19
		4183	836.6	1	23.15	27.09	3.94
				2	23.15	27.08	3.93
				3	23.15	27.10	3.95
				4	23.15	27.08	3.93
		4233	846.6	1	23.12	27.41	4.29
				2	23.14	27.40	4.26
				3	23.13	27.42	4.29
				4	23.13	27.38	4.25
	HSUPA	4132	826.4	1	22.12	28.21	6.09
				2	22.91	27.47	4.56
				3	21.80	27.33	5.53
				4	23.19	27.29	4.10
				5	22.15	28.00	5.85
		4183	836.6	1	22.20	27.08	4.88
				2	22.70	27.08	4.38
				3	21.63	27.00	5.37
				4	22.96	26.87	3.91
				5	23.44	27.57	4.13
		4233	846.6	1	22.13	27.35	5.22
				2	22.64	27.42	4.78
				3	21.62	27.10	5.48
				4	22.91	27.09	4.18
				5	23.40	27.51	4.11