

FCC/ISED Test Report

Product Name : ME910C1-WW
Trade Name : 
Model No. : ME910C1-WW
FCC ID : RI7ME910C1WW
IC ID : 5131A-ME910C1WW

Applicant : Telit communications Spa
Address : Via Stazione di Prosecco 5/B
34010 Sgonico
Trieste-Italy

Date of Receipt : Jun. 14, 2018
Issued Date : Jul. 05, 2019
Report No. : 1860156R-HPUSP50V00
Report Version : V3.0



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Test Report Certification

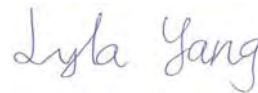
Issued Date : Jul. 05, 2019

Report No. : 1860156R-HPUSP50V00



Product Name : ME910C1-WW
Applicant : Telit communications Spa
Address : Via Stazione di Prosecco 5/B
34010 Sgonico
Trieste-Italy
Manufacturer : Telit Wireless Solutions Co., LTD
Model No. : ME910C1-WW
FCC ID : RI7ME910C1WW
IC ID : 5131A-ME910C1WW
EUT Voltage : DC 3.8V
Testing Voltage : DC 3.8V
Trade name : 
Applicable Standard : FCC CFR Title 47 Part 22 Subpart H
FCC CFR Title 47 Part 24 Subpart E
FCC CFR Title 47 Part 27 Subpart L
FCC CFR Title 47 Part 90 Subpart S
ANSI/TIA-603
KDB 971168 D01 Power Meas License Digital Systems v03,
RSS-132 Issue 3, RSS-133 Issue 6, RSS-139 Issue 3
Test Lab : Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu
County 310, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By :



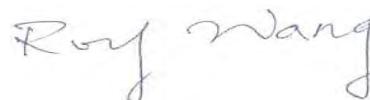
(Lyla Yang / Engineering Adm. Specialist)

Tested By :



(Clemens Fang / Engineer)

Approved By :



(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1860156R-HPUSP50V00	V3.0	Initial issue of report	Jul. 05, 2019

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1. General Information

1.1. EUT Description

Product Name	ME910C1-WW
Trade Name	
Model No.	ME910C1-WW
Uplink Frequency Range (MHz)	Band 2: 1850~1910MHz Band 4: 1710~1755MHz Band 5: 824~849MHz Band 26: 814~849MHz
Downlink Frequency Range (MHz)	Band 2: 1930~1990MHz Band 4: 2110~2155MHz Band 5: 869~894MHz Band 26: 859~894MHz
Modulation	QPSK / 16QAM
HW Version	0.0
SW Version	M0B.800003
IMEI No.	353081099991658 #7 353081099992102 #8

Accessories Information	
Antenna	1 pcs

Antenna Information	
MFR. / Model	ATEL-CAB / T-AT305
Antenna Type	Dipole Antenna
Antenna Gain	2.14dBi

Note:

1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. LTE NB-IoT/Cat M1 Band 26 from 824~849 MHz (CH26791-27039) complies with Part 22, and 814~824 MHz (CH26692-26788) is following Part 90 rule.
3. The LTE band 26 frequency range is 824-849MHz for ISSED.
4. We have pre-scanned the RF output power on all mode. According to the results, the worst case was selected from RF output power to test other test item

1.2. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

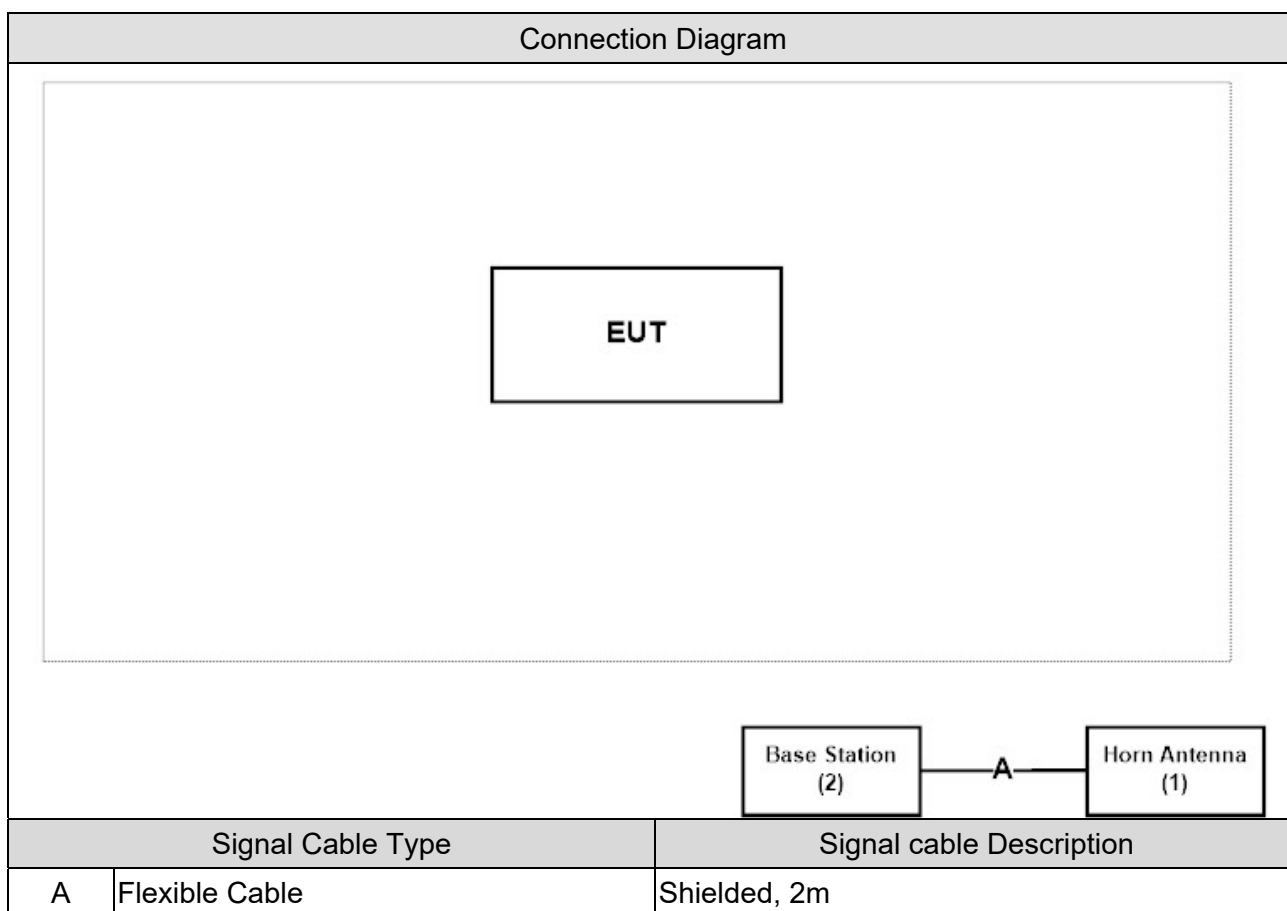
Test Mode
Mode 1: LTE Band 2
Mode 2: LTE Band 4
Mode 3: LTE Band 5
Mode 4: LTE Band 26

1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Horn Antenna	ELECTRO METRICS	EM-6961	103326
2	Base Station	R&S	CMW500	106071
				Non-Shielded, 2m.

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	The EUT will continue receive the signal from LTE Cat M1 function.
4	Repeat the above procedure (3)

2. Technical Test

2.1. Summary of Test Result

Band 2

Uplink: 1850-1910MHz

Downlink: 1930-1990MHz

LTE Band 2					
FCC Part 24 Subpart E					
Industry Canada RSS-133, Issue 6, Industry Canada RSS-GEN					
Test item	FCC Reference section	FCC Limit	IC Reference section	IC Limit	Result
RF Output Power	§2.1033 §2.1046 §24.232	<2 Watts	§6.4	<2 Watts	Pass
Occupied Bandwidth	§2.1049	N/A	RSS-GEN §4.2	N/A	Pass
Peak-to-average power ratio	§24.232	<13 dB	§6.4	<13 dB	Pass
Spurious Emissions	§2.1053 §24.238	<-13dBm	§6.5	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§24.238	<-13dBm	§6.5	<-13dBm	Pass
Frequency Stability	§2.1055 §24.235	<±2.5 ppm	§6.3	<±2.5 ppm	Pass

Band 4

Uplink: 1710-1755MHz

Downlink: 2100-2155MHz

LTE Band 4					
FCC Part 27 Subpart L					
Industry Canada RSS-139, Issue 3, Industry Canada RSS-GEN					
Test item	FCC Reference section	FCC Limit	IC Reference section	IC Limit	Result
RF Output Power	§2.1033 §2.1046 §27.50	<1 Watt	§6.5	<1 Watt	Pass
Occupied Bandwidth	§2.1049	N/A	RSS-GEN §4.2	N/A	Pass
Peak-to-average power ratio	§27.50	<13 dB	§6.5	<13 dB	Pass
Spurious Emissions	§2.1053 §27.53	<-13dBm	§6.6	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§27.53	<-13dBm	§6.6	<-13dBm	Pass
Frequency Stability	§2.1055 §27.54	<2.5 ppm	§6.4	Within the frequency range	Pass

Band 5

Uplink: 824-849MHz

Downlink: 869-894MHz

LTE Band 5					
FCC Part 22 Subpart H					
Industry Canada RSS-132, Issue 3, Industry Canada RSS-GEN					
Test item	FCC Reference section	FCC Limit	IC Reference section	IC Limit	Result
RF Output Power	§2.1033 §2.1046 §22.913	<7 Watts	§5.4	<7 Watts EIRP: <11.5 Watts	Pass
Occupied Bandwidth	§2.1049	N/A	RSS-GEN §4.2	N/A	Pass
Peak-to-average power ratio	§22.913	<13 dB	§5.4	<13 dB	Pass
Spurious Emissions	§2.1053 §22.917	<-13dBm	§5.5	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§22.917	<-13dBm	§5.5	<-13dBm	Pass
Frequency Stability	§2.1055 §22.335	<±2.5 ppm	§5.3	<±2.5 ppm for mobile stations <±1.5 ppm for base stations	Pass

Band 26

Uplink: 814~849MHz (ISED not support 814~824 MHz)

Downlink: 859~894MHz

LTE Band 26					
FCC Part 22 Subpart H					
FCC Part 90 Subpart S					
Industry Canada RSS-132, Issue 3, Industry Canada RSS-GEN					
Test item	FCC Reference section	FCC Limit	IC Reference section	IC Limit	Result
RF Output Power	§2.1033 §2.1046 §90.635(b) §22.913	<7 Watts <100 Watts	§5.4	<11.5 Watts	Pass
Occupied Bandwidth	§2.1049	N/A	RSS-GEN §4.2	N/A	Pass
Peak-to-average power ratio	§22.913	<13 dB	§5.4	<13 dB	Pass
Spurious Emissions	§2.1053 §90.691 §22.917	<-13dBm	§5.5	<-13dBm	Pass
Spurious Emissions at Antenna Terminals	§90.691 §22.917	<-13dBm	§5.5	<-13dBm	Pass
Frequency Stability	§2.1055 §90.213	<±2.5 ppm	§5.2	<±2.5ppm	Pass

2.2. Test Environment

Items	Test Item	Required (IEC 68-1)	Actual	Test Site
Temperature (°C)	RF Output Power	15 - 35	25	3
Humidity (%RH)		20 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	Occupied Bandwidth	15 - 35	25	3
Humidity (%RH)		20 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	Peak To Average Ratio	15 - 35	25	3
Humidity (%RH)		20 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	Spurious Emission	15 - 35	25	2/3
Humidity (%RH)		20 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	Spurious Emissions at Antenna Terminals	15 - 35	25	3
Humidity (%RH)		20 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	Frequency Stability	15 - 35	25	3
Humidity (%RH)		20 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test site information refers to Laboratory Information.

USA : FCC Registration Number: TW3024
Canada : IC Registration Number: 22397-1 / 22397-2 / 22397-3

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw/index_en.aspx

If you have any comments, please don't hesitate to contact us. Our test sites as below:

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- 2 No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958 E-Mail : info.tw@dekra.com
- 3 No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958 E-Mail : info.tw@dekra.com

2.3. List of Test Equipment

RF Output Power / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2019/03/15	2020/03/14
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Wireless Conn. Tseter	R&S	CMW500	157118	2018/08/16	2019/08/15
Wideband Radio Communication Tester	R&S	CMW500	106071	2019/01/16	2020/01/15

Occupied Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2019/03/15	2020/03/14
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Wireless Conn. Tseter	R&S	CMW500	157118	2018/08/16	2019/08/15
Wideband Radio Communication Tester	R&S	CMW500	106071	2019/01/16	2020/01/15

Peak To Average Ratio / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Wideband Radio Communication Tester	R&S	CMW500	150246	2018/03/30	2019/03/29
Directional Coupler	Agilent	778D	20402	2017/09/25	2018/09/24
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04

Conducted Band Edge Emissions / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/12/21	2019/12/20
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2019/03/15	2020/03/14
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Wireless Conn. Tseter	R&S	CMW500	157118	2018/08/16	2019/08/15
Wideband Radio Communication Tester	R&S	CMW500	106071	2019/01/16	2020/01/15

Spurious Emission / CB4-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04
Bilog Antenna	Teseq	CBL6112D	23191	2018/06/26	2019/06/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
Horn Antenna	Schwarzbeck	BBHA 9170	202	2018/01/31	2019/01/30
Pre-Amplifier	Dekra	AP-025C	201801236	2018/02/26	2019/02/25
Pre-Amplifier	EMCI	EMC11830I	980366	2018/01/08	2019/01/07
Pre-Amplifier	Dekra	AP-400C	201801231	2017/12/13	2018/12/12
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04

Spurious Emissions at Antenna Terminals / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Wideband Radio Communication Tester	R&S	CMW500	150246	2018/03/30	2019/03/29
Directional Coupler	Agilent	778D	20402	2017/09/25	2018/09/24
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04

Frequency Stability Under Temperature & Voltage Variations / SR10-H

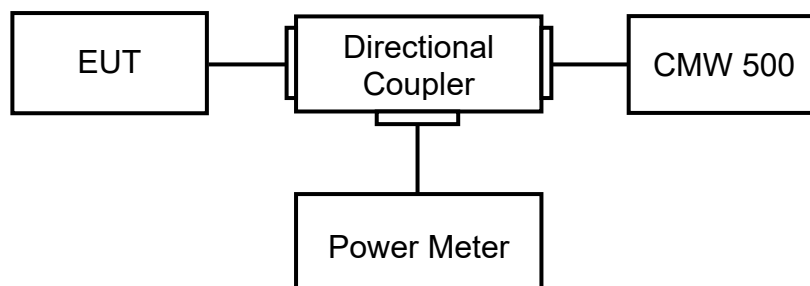
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Wideband Radio Communication Tester	R&S	CMW500	150246	2018/03/30	2019/03/29
Directional Coupler	Agilent	778D	20402	2017/09/25	2018/09/24
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04

2.4. Uncertainty

Test Item	Uncertainty
RF Output Power	$\pm 1.16\text{dB}$
Occupied Bandwidth	$\pm 10\text{Hz}$
Peak To Average Ratio	$\pm 2.11\text{dB}$
Spurious Emissions	$\pm 1.27\text{dB}$ for Conducted Measurement $\pm 3.2\text{dB}$ for Radiated Measurement
Spurious Emissions at Antenna Terminals	$\pm 3.2\text{dB}$
Frequency Stability	$\pm 10\text{Hz}$

3. RF Output Power

3.1. Test Setup



3.2. Test Procedure

- a) The RF output of the transmitter was connected to base station simulator.
- b) The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- c) Set EUT at maximum average power by base station simulator.
- d) Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Effective Isotropic Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi)

Effective Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi) - 2.15dB

3.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.2.4

ANSI C63.26: 2015 Sub-clause 5.2.4.2

3.4. Test Result

Product	ME910C1-WW		
Test Item	RF Output Power		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2018/09/20	Test Site	SR10-H

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 1.4MHz	18607 1850.7	QPSK	1	0	23.34	0.353	2
			6	0	22.82	0.313	2
		16-QAM	1	0	23.03	0.329	2
			1	5	23.01	0.327	2
			5	0	22.66	0.302	2
			5	1	22.67	0.303	2
	18900 1880	QPSK	1	0	23.72	0.385	2
			6	0	23.17	0.340	2
		16-QAM	1	0	23.25	0.346	2
			1	5	23.13	0.337	2
			5	0	22.94	0.322	2
			5	1	22.81	0.313	2
	19193 1909.3	QPSK	1	0	23.70	0.384	2
			6	0	22.94	0.322	2
		16-QAM	1	0	22.97	0.324	2
			1	5	22.80	0.312	2
			5	0	22.41	0.285	2
			5	1	22.61	0.299	2

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 3MHz	18615 1851.5	QPSK	1	0	23.24	0.345	2
			6	0	22.90	0.319	2
		16-QAM	1	0	23.16	0.339	2
			1	5	22.66	0.302	2
			5	0	22.80	0.312	2
			5	1	23.05	0.330	2
	18900 1880	QPSK	1	0	23.69	0.383	2
			6	0	22.88	0.318	2
		16-QAM	1	0	23.51	0.367	2
			1	5	23.41	0.359	2
			5	0	23.41	0.359	2
			5	1	23.45	0.362	2
	19185 1908.5	QPSK	1	0	23.21	0.343	2
			6	0	22.97	0.324	2
		16-QAM	1	0	23.17	0.340	2
			1	5	22.56	0.295	2
			5	0	22.97	0.324	2
			5	1	23.09	0.333	2

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 5MHz	18625 1852.5	QPSK	1	0	23.28	0.348	2
			6	0	23.03	0.329	2
		16-QAM	1	0	23.23	0.344	2
			1	5	23.22	0.344	2
			5	0	22.72	0.306	2
			5	1	22.69	0.304	2
	18900 1880	QPSK	1	0	23.64	0.378	2
			6	0	23.37	0.356	2
		16-QAM	1	0	23.62	0.377	2
			1	5	23.57	0.372	2
			5	0	23.04	0.330	2
			5	1	22.70	0.305	2
	19175 1907.5	QPSK	1	0	23.38	0.356	2
			6	0	23.34	0.353	2
		16-QAM	1	0	23.30	0.350	2
			1	5	23.29	0.349	2
			5	0	22.66	0.302	2
			5	1	22.92	0.321	2

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 10MHz	18650 1855	QPSK	1	0	23.10	0.334	2
			6	0	22.80	0.312	2
		16-QAM	1	0	23.04	0.330	2
			1	5	23.01	0.327	2
			5	0	22.77	0.310	2
			5	1	22.72	0.306	2
	18900 1880	QPSK	1	0	23.62	0.377	2
			6	0	23.23	0.344	2
		16-QAM	1	0	23.59	0.374	2
			1	5	23.57	0.372	2
			5	0	23.14	0.337	2
			5	0	23.18	0.340	2
	19150 1905	QPSK	1	0	23.20	0.342	2
			6	0	23.15	0.338	2
		16-QAM	1	0	23.00	0.327	2
			1	5	22.97	0.324	2
			5	0	22.68	0.303	2
			5	1	22.70	0.305	2

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 15MHz	18675 1857.5	QPSK	1	0	23.30	0.350	2
			6	0	23.28	0.348	2
		16-QAM	1	0	23.28	0.348	2
			1	5	23.17	0.340	2
			5	0	23.23	0.344	2
			5	1	23.27	0.348	2
	18900 1880	QPSK	1	0	23.74	0.387	2
			6	0	23.19	0.341	2
		16-QAM	1	0	23.65	0.379	2
			1	5	23.62	0.377	2
			5	0	23.63	0.378	2
			5	1	23.64	0.378	2
	19125 1902.5	QPSK	1	0	23.73	0.386	2
			6	0	23.32	0.352	2
		16-QAM	1	0	23.63	0.378	2
			1	5	23.34	0.353	2
			5	0	23.53	0.369	2
			5	1	23.51	0.367	2

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 2 20MHz	18700 1860	QPSK	1	0	23.32	0.352	2
			6	0	23.08	0.333	2
		16-QAM	1	0	23.31	0.351	2
			1	5	23.28	0.348	2
			5	0	23.15	0.338	2
			5	1	23.19	0.341	2
	18900 1880	QPSK	1	0	23.59	0.374	2
			6	0	23.41	0.359	2
		16-QAM	1	0	23.48	0.365	2
			1	5	23.45	0.362	2
			5	0	23.42	0.360	2
			5	1	23.20	0.342	2
	19100 1900	QPSK	1	0	23.55	0.371	2
			6	0	23.45	0.362	2
		16-QAM	1	0	23.22	0.344	2
			1	5	23.20	0.342	2
			5	0	23.15	0.338	2
			5	1	23.16	0.339	2

Product	ME910C1-WW		
Test Item	RF Output Power		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/09/20	Test Site	SR10-H

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 4 1.4MHz	19957 1710.7	QPSK	1	0	23.01	0.327	1
			6	0	22.25	0.275	1
		16-QAM	1	0	22.50	0.291	1
			1	5	22.30	0.278	1
			5	0	21.92	0.255	1
			5	1	21.97	0.258	1
	20175 1732.5	QPSK	1	0	22.66	0.302	1
			6	0	22.25	0.275	1
		16-QAM	1	0	22.21	0.272	1
			1	5	22.18	0.270	1
			5	0	21.79	0.247	1
			5	1	21.96	0.257	1
	20393 1754.3	QPSK	1	0	22.44	0.287	1
			6	0	22.08	0.264	1
		16-QAM	1	0	22.18	0.270	1
			1	5	22.04	0.262	1
			5	0	22.04	0.262	1
			5	1	21.96	0.257	1

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 4 3MHz	19965 1711.5	QPSK	1	0	22.71	0.305	1
			6	0	22.34	0.281	1
		16-QAM	1	0	22.34	0.281	1
			1	5	22.01	0.260	1
			5	0	22.03	0.261	1
			5	1	22.29	0.277	1
	20175 1732.5	QPSK	1	0	22.68	0.303	1
			6	0	22.30	0.278	1
		16-QAM	1	0	22.44	0.287	1
			1	5	22.03	0.261	1
			5	0	22.43	0.286	1
			5	1	22.12	0.267	1
	20385 1753.5	QPSK	1	0	22.58	0.296	1
			6	0	22.47	0.289	1
		16-QAM	1	0	22.50	0.291	1
			1	5	22.48	0.290	1
			5	0	22.20	0.272	1
			5	1	22.34	0.281	1

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 4 5MHz	19975 1712.5	QPSK	1	0	22.76	0.309	1
			6	0	22.49	0.290	1
		16-QAM	1	0	22.74	0.308	1
			1	5	22.72	0.306	1
			5	0	22.21	0.272	1
			5	1	22.31	0.279	1
	20175 1732.5	QPSK	1	0	22.67	0.303	1
			6	0	22.42	0.286	1
		16-QAM	1	0	22.57	0.296	1
			1	5	22.55	0.294	1
			5	0	22.24	0.274	1
			5	1	22.22	0.273	1
	20375 1752.5	QPSK	1	0	22.68	0.303	1
			6	0	22.42	0.286	1
		16-QAM	1	0	22.63	0.300	1
			1	5	22.61	0.299	1
			5	0	22.34	0.281	1
			5	1	22.16	0.269	1

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 4 10MHz	20000 1715	QPSK	1	0	22.60	0.298	1
			6	0	22.18	0.270	1
		16-QAM	1	0	22.48	0.290	1
			1	5	22.46	0.288	1
			5	0	22.16	0.269	1
			5	1	22.12	0.267	1
	20175 1732.5	QPSK	1	0	22.37	0.282	1
			6	0	22.02	0.261	1
		16-QAM	1	0	22.32	0.279	1
			1	5	22.29	0.277	1
			5	0	22.01	0.260	1
			5	1	22.02	0.261	1
	20350 1750	QPSK	1	0	22.60	0.298	1
			6	0	22.33	0.280	1
		16-QAM	1	0	22.55	0.294	1
			1	5	22.51	0.292	1
			5	0	22.22	0.273	1
			5	1	22.27	0.276	1

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 4 15MHz	20025 1717.5	QPSK	1	0	22.60	0.298	1
			6	0	22.58	0.296	1
		16-QAM	1	0	22.58	0.296	1
			1	5	22.52	0.292	1
			5	0	22.55	0.294	1
			5	1	22.56	0.295	1
	20175 1732.5	QPSK	1	0	22.59	0.297	1
			6	0	22.51	0.292	1
		16-QAM	1	0	22.57	0.296	1
			1	5	22.51	0.292	1
			5	0	22.53	0.293	1
			5	1	22.55	0.294	1
	20325 1747.5	QPSK	1	0	22.63	0.300	1
			6	0	22.53	0.293	1
		16-QAM	1	0	22.61	0.299	1
			1	5	22.56	0.295	1
			5	0	22.55	0.294	1
			5	1	22.53	0.293	1

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) EIRP	Limit (W) EIRP
Band 4 20MHz	20050 1720	QPSK	1	0	22.81	0.313	1
			6	0	22.61	0.299	1
		16-QAM	1	0	22.67	0.303	1
			1	5	22.64	0.301	1
			5	0	22.62	0.299	1
			5	1	22.66	0.302	1
	20175 1732.5	QPSK	1	0	22.73	0.307	1
			6	0	22.32	0.279	1
		16-QAM	1	0	22.32	0.279	1
			1	5	22.22	0.273	1
			5	0	22.31	0.279	1
			5	1	22.21	0.272	1
	20300 1745	QPSK	1	0	22.63	0.300	1
			6	0	22.59	0.297	1
		16-QAM	1	0	22.61	0.299	1
			1	5	22.59	0.297	1
			5	0	22.28	0.277	1
			5	1	22.25	0.275	1

Product	ME910C1-WW		
Test Item	RF Output Power		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/09/20	Test Site	SR10-H

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 5 1.4MHz	20407 824.7	QPSK	1	0	23.71	0.234	7
			6	0	23.21	0.209	7
		16-QAM	1	0	23.25	0.211	7
			1	5	23.22	0.209	7
			5	0	23.02	0.200	7
			5	1	23.07	0.202	7
	20525 836.5	QPSK	1	0	23.55	0.226	7
			6	0	23.32	0.214	7
		16-QAM	1	0	23.34	0.215	7
			1	5	23.26	0.211	7
			5	0	23.22	0.209	7
			5	1	23.24	0.210	7
	20643 848.3	QPSK	1	0	23.46	0.221	7
			6	0	23.25	0.211	7
		16-QAM	1	0	23.34	0.215	7
			1	5	23.24	0.210	7
			5	0	23.22	0.209	7
			5	1	23.27	0.212	7

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 5 3MHz	20415 825.5	QPSK	1	0	23.71	0.234	7
			6	0	23.58	0.228	7
		16-QAM	1	0	23.64	0.231	7
			1	5	23.54	0.225	7
			5	0	23.58	0.228	7
			5	1	23.60	0.229	7
	20525 836.5	QPSK	1	0	23.57	0.227	7
			6	0	23.48	0.222	7
		16-QAM	1	0	23.44	0.220	7
			1	5	23.36	0.216	7
			5	0	23.37	0.217	7
			5	1	23.40	0.218	7
	20635 847.5	QPSK	1	0	23.62	0.230	7
			6	0	23.51	0.224	7
		16-QAM	1	0	23.43	0.220	7
			1	5	23.38	0.217	7
			5	0	23.36	0.216	7
			5	1	23.41	0.219	7

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 5 5MHz	20425 826.5	QPSK	1	0	23.78	0.238	7
			6	0	23.64	0.231	7
		16-QAM	1	0	23.71	0.234	7
			1	5	23.58	0.228	7
			5	0	23.60	0.229	7
			5	1	23.61	0.229	7
	20525 836.5	QPSK	1	0	23.56	0.226	7
			6	0	23.48	0.222	7
		16-QAM	1	0	23.52	0.224	7
			1	5	23.44	0.220	7
			5	0	23.41	0.219	7
			5	1	23.43	0.220	7
	20625 846.5	QPSK	1	0	23.60	0.229	7
			6	0	23.54	0.225	7
		16-QAM	1	0	23.58	0.228	7
			1	5	23.43	0.220	7
			5	0	23.47	0.222	7
			5	1	23.46	0.221	7

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 5 10MHz	20450 829	QPSK	1	0	22.53	0.179	7
			6	0	22.47	0.176	7
		16-QAM	1	0	23.51	0.224	7
			1	5	23.42	0.219	7
			5	0	23.44	0.220	7
			5	1	23.41	0.219	7
	20525 836.5	QPSK	1	0	23.54	0.225	7
			6	0	23.47	0.222	7
		16-QAM	1	0	23.51	0.224	7
			1	5	23.39	0.218	7
			5	0	23.42	0.219	7
			5	1	23.40	0.218	7
	20600 844	QPSK	1	0	23.52	0.224	7
			6	0	23.43	0.220	7
		16-QAM	1	0	23.51	0.224	7
			1	5	23.40	0.218	7
			5	0	23.42	0.219	7
			5	1	23.43	0.220	7

Product	ME910C1-WW		
Test Item	RF Output Power		
Test Mode	Mode 4: LTE Band 26 (Part 22)		
Date of Test	2018/09/20	Test Site	SR10-H

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 26 1.4MHz	26797 824.7	QPSK	1	0	23.44	0.220	7
			6	0	23.32	0.214	7
		16-QAM	1	0	23.31	0.214	7
			1	5	23.22	0.209	7
			5	0	23.24	0.210	7
			5	1	23.25	0.211	7
	26915 836.5	QPSK	1	0	23.48	0.222	7
			6	0	23.38	0.217	7
		16-QAM	1	0	23.22	0.209	7
			1	5	23.11	0.204	7
			5	0	23.14	0.206	7
			5	1	23.13	0.205	7
	27033 848.3	QPSK	1	0	23.47	0.222	7
			6	0	23.35	0.216	7
		16-QAM	1	0	23.16	0.207	7
			1	5	23.01	0.200	7
			5	0	23.04	0.201	7
			5	1	23.03	0.200	7

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 26 3MHz	26805 825.5	QPSK	1	0	23.47	0.222	7
			6	0	23.33	0.215	7
		16-QAM	1	0	23.38	0.217	7
			1	5	23.31	0.214	7
			5	0	23.30	0.213	7
			5	1	23.28	0.212	7
	26915 836.5	QPSK	1	0	23.46	0.221	7
			6	0	23.39	0.218	7
		16-QAM	1	0	23.41	0.219	7
			1	5	23.31	0.214	7
			5	0	23.34	0.215	7
			5	1	23.33	0.215	7
	27025 847.5	QPSK	1	0	23.38	0.217	7
			6	0	23.32	0.214	7
		16-QAM	1	0	23.25	0.211	7
			1	5	23.15	0.206	7
			5	0	23.18	0.207	7
			5	1	23.19	0.208	7

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 26 5MHz	26815 826.5	QPSK	1	0	23.48	0.222	7
			6	0	23.41	0.219	7
		16-QAM	1	0	23.43	0.220	7
			1	5	23.35	0.216	7
			5	0	23.38	0.217	7
			5	1	23.37	0.217	7
	26915 836.5	QPSK	1	0	23.44	0.220	7
			6	0	23.35	0.216	7
		16-QAM	1	0	23.42	0.219	7
			1	5	23.33	0.215	7
			5	0	23.31	0.214	7
			5	1	23.30	0.213	7
	27015 846.5	QPSK	1	0	23.39	0.218	7
			6	0	23.31	0.214	7
		16-QAM	1	0	23.35	0.216	7
			1	5	23.28	0.212	7
			5	0	23.26	0.211	7
			5	1	23.27	0.212	7

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 26 10MHz	26840 829	QPSK	1	0	23.38	0.217	7
			6	0	23.30	0.213	7
		16-QAM	1	0	23.33	0.215	7
			1	5	23.25	0.211	7
			5	0	23.29	0.213	7
			5	1	23.28	0.212	7
	26915 836.5	QPSK	1	0	23.34	0.215	7
			6	0	23.28	0.212	7
		16-QAM	1	0	23.32	0.214	7
			1	5	23.25	0.211	7
			5	0	23.26	0.211	7
			5	1	23.28	0.212	7
	26990 844	QPSK	1	0	23.24	0.210	7
			6	0	23.18	0.207	7
		16-QAM	1	0	23.21	0.209	7
			1	5	23.11	0.204	7
			5	0	23.14	0.206	7
			5	1	23.13	0.205	7

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 26 15MHz	26865 831.5	QPSK	1	0	23.55	0.226	7
			6	0	23.46	0.221	7
		16-QAM	1	0	23.51	0.224	7
			1	5	23.42	0.219	7
			5	0	23.40	0.218	7
			5	1	23.41	0.219	7
	26915 836.5	QPSK	1	0	23.52	0.224	7
			6	0	23.44	0.220	7
		16-QAM	1	0	23.48	0.222	7
			1	5	23.41	0.219	7
			5	0	23.39	0.218	7
			5	1	23.42	0.219	7
	26965 841.5	QPSK	1	0	23.51	0.224	7
			6	0	23.41	0.219	7
		16-QAM	1	0	23.32	0.214	7
			1	5	23.28	0.212	7
			5	0	23.26	0.211	7
			5	1	23.29	0.213	7

Product	ME910C1-WW		
Test Item	RF Output Power		
Test Mode	Mode 4: LTE Band 26 (Part 90)		
Date of Test	2019/07/05	Test Site	SR10-H

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 26 1.4MHz	26697 814.7	QPSK	1	0	23.44	0.220	100
			6	0	23.33	0.215	100
		16-QAM	1	0	23.32	0.214	100
			1	5	23.25	0.211	100
			5	0	23.28	0.212	100
			5	1	23.29	0.213	100
	26740 819	QPSK	1	0	23.35	0.216	100
			6	0	23.24	0.210	100
		16-QAM	1	0	23.23	0.210	100
			1	5	23.19	0.208	100
			5	0	23.22	0.209	100
			5	1	23.23	0.210	100
	26783 823.3	QPSK	1	0	23.40	0.218	100
			6	0	23.32	0.214	100
		16-QAM	1	0	23.35	0.216	100
			1	5	23.28	0.212	100
			5	0	23.31	0.214	100
			5	1	23.30	0.213	100
	26790 824	QPSK	1	0	23.48	0.222	100
			6	0	23.40	0.218	100
		16-QAM	1	0	23.38	0.217	100
			1	5	23.28	0.212	100
			5	0	23.29	0.213	100
			5	1	23.27	0.212	100

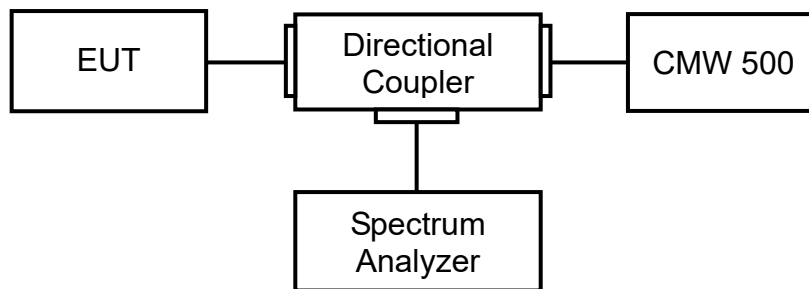
Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 26 3MHz	26705 815.5	QPSK	1	0	23.44	0.220	100
			6	0	23.36	0.216	100
		16-QAM	1	0	23.35	0.216	100
			1	5	23.29	0.213	100
			5	0	23.31	0.214	100
			5	1	23.28	0.212	100
	26740 819	QPSK	1	0	23.34	0.215	100
			6	0	23.22	0.209	100
		16-QAM	1	0	23.29	0.213	100
			1	5	23.21	0.209	100
			5	0	23.26	0.211	100
			5	1	23.24	0.210	100
	26775 822.5	QPSK	1	0	23.33	0.215	100
			6	0	23.27	0.212	100
		16-QAM	1	0	23.31	0.214	100
			1	5	23.25	0.211	100
			5	0	23.22	0.209	100
			5	1	23.24	0.210	100
	26790 824	QPSK	1	0	23.45	0.221	100
			6	0	23.44	0.220	100
		16-QAM	1	0	23.37	0.217	100
			1	5	23.32	0.214	100
			5	0	23.29	0.213	100
			5	1	23.23	0.210	100

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 26 5MHz	26715 816.5	QPSK	1	0	23.40	0.218	100
			6	0	23.31	0.214	100
		16-QAM	1	0	23.35	0.216	100
			1	5	23.29	0.213	100
			5	0	23.31	0.214	100
			5	1	23.33	0.215	100
	26740 819	QPSK	1	0	23.37	0.217	100
			6	0	23.31	0.214	100
		16-QAM	1	0	23.33	0.215	100
			1	5	23.28	0.212	100
			5	0	23.30	0.213	100
			5	1	23.29	0.213	100
	26765 821.5	QPSK	1	0	23.42	0.219	100
			6	0	23.33	0.215	100
		16-QAM	1	0	23.34	0.215	100
			1	5	23.24	0.210	100
			5	0	23.26	0.211	100
			5	1	23.27	0.212	100
	26790 824	QPSK	1	0	23.40	0.218	100
			6	0	23.38	0.217	100
		16-QAM	1	0	23.33	0.215	100
			1	5	23.32	0.214	100
			5	0	23.34	0.215	100
			5	1	23.28	0.212	100

Band	Channel / Freq. (MHz)	Modulation	RB No.	RB offset	Conducted Output Power (dBm)	RF Output Power (W) ERP	Limit (W) ERP
Band 26 10MHz	26740 819	QPSK	1	0	23.40	0.218	100
			6	0	23.32	0.214	100
		16-QAM	1	0	23.37	0.217	100
			1	5	23.31	0.214	100
			5	0	23.29	0.213	100
			5	1	23.32	0.214	100
	26790 824	QPSK	1	0	23.46	0.221	100
			6	0	23.43	0.220	100
		16-QAM	1	0	23.40	0.218	100
			1	5	23.36	0.216	100
			5	0	23.37	0.217	100
			5	1	23.31	0.214	100

4. Occupied Bandwidth

4.1. Test Setup



4.2. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The 26 dB bandwidth and 99% occupied bandwidth of the low & middle & high channel for the highest RF powers were measured.

4.3. Test Method

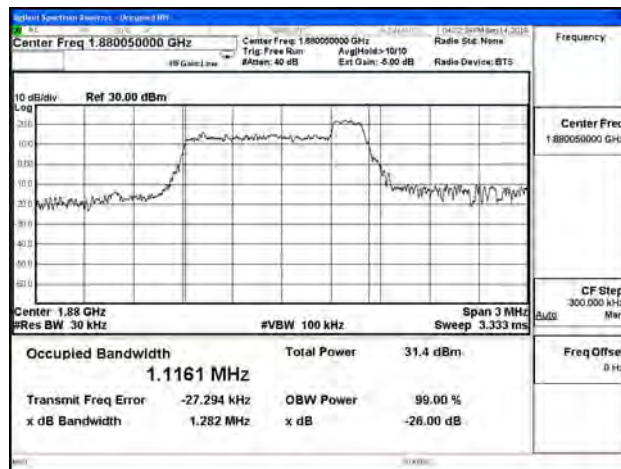
KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 4.2 & 4.3
ANSI C63.26: 2015 Sub-clause 5.4.3 & 5.4.4

4.4. Test Result

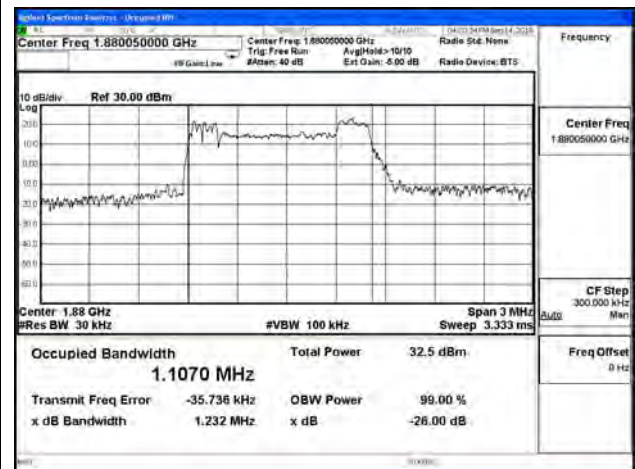
Product	ME910C1-WW		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2018/09/14	Test Site	SR10-H

Bandwidth	Channel Freq. (MHz)	Modulation	RB No.	RB offset	Measure Level (MHz)		Limit (MHz)
					26dB BW	99% BW	
1.4MHz	18900	QPSK	6	0	1.282	1.116	NA
	1880	16-QAM	5	1	1.232	1.107	NA
3MHz	18900	QPSK	6	0	1.424	1.282	NA
	1880	16-QAM	5	1	1.395	1.287	NA
5MHz	18900	QPSK	6	0	1.783	1.148	NA
	1880	16-QAM	5	1	1.385	0.979	NA
10MHz	18900	QPSK	6	0	2.149	1.178	NA
	1880	16-QAM	5	1	1.800	1.001	NA
15MHz	18900	QPSK	6	0	1.638	1.118	NA
	1880	16-QAM	5	1	1.554	1.020	NA
20MHz	18900	QPSK	6	0	1.747	1.176	NA
	1880	16-QAM	5	1	1.405	1.002	NA

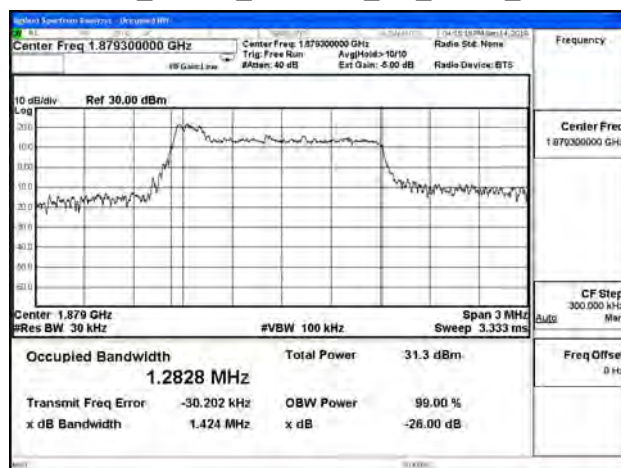
Cat M1_Band 2_CH18900_1.4M_QPSK_6RB0



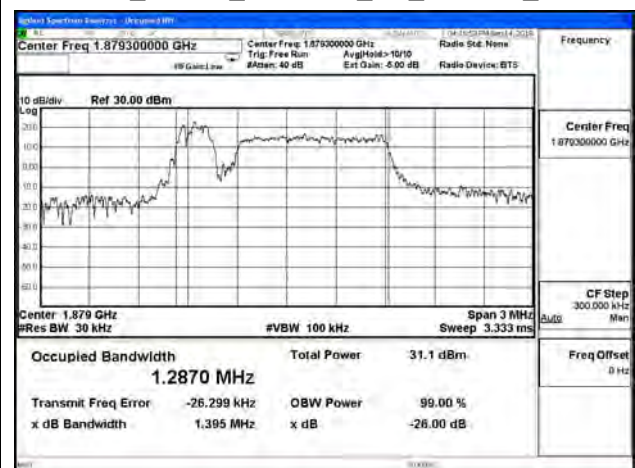
Cat M1_Band 2_CH18900_1.4M_16-QAM_5RB1



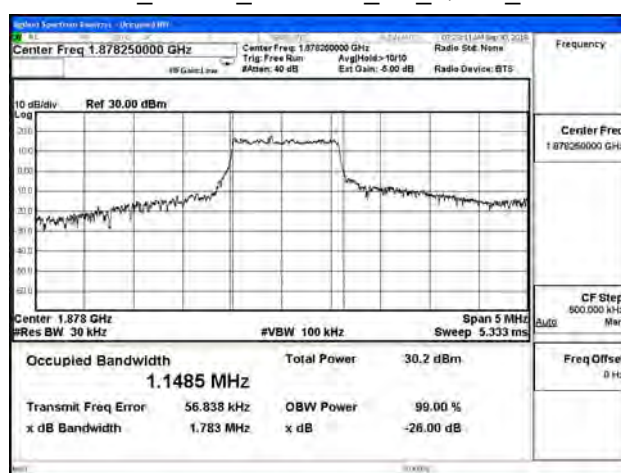
Cat M1_Band 2_CH18900_3M_QPSK_6RB0



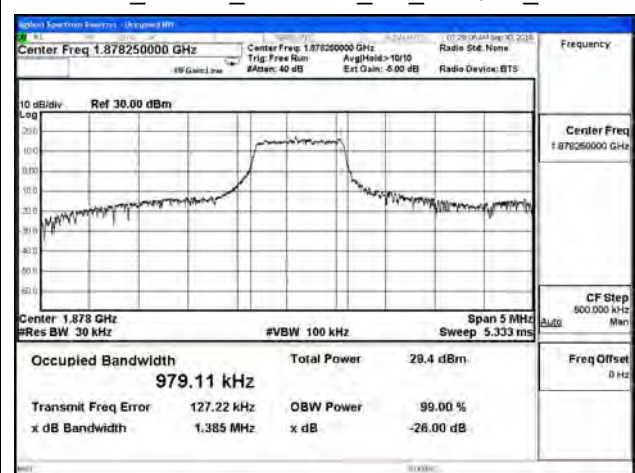
Cat M1_Band 2_CH18900_3M_16-QAM_5RB1



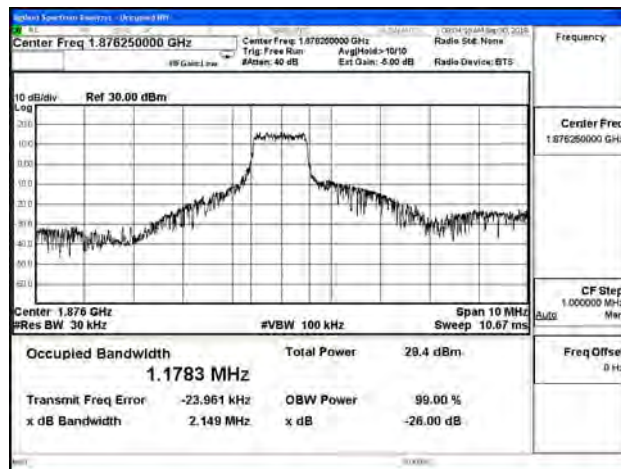
Cat M1_Band 2_CH18900_5M_QPSK_6RB0



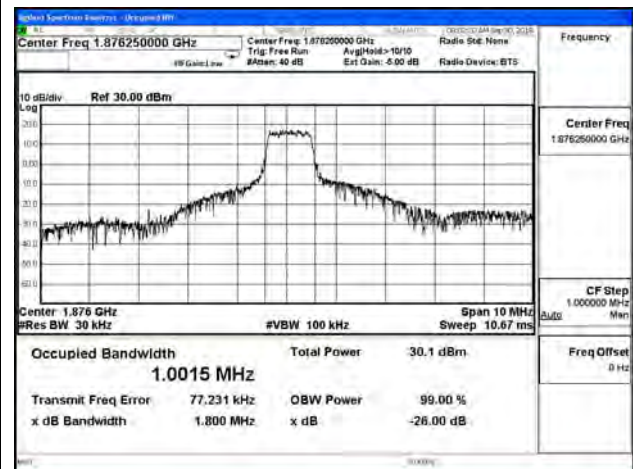
Cat M1_Band 2_CH18900_5M_16-QAM_5RB1



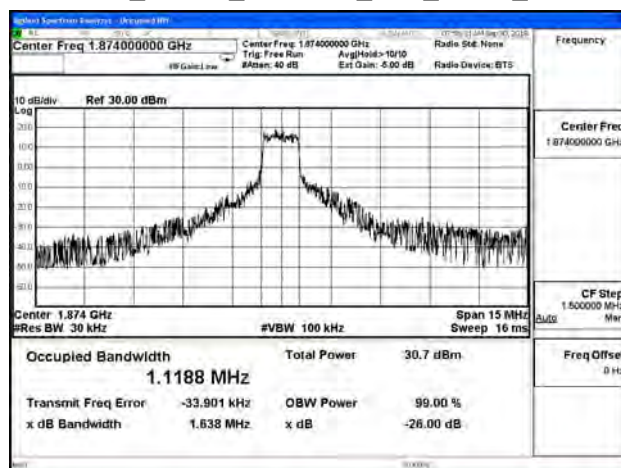
Cat M1_Band 2_CH18900_10M_QPSK_6RB0



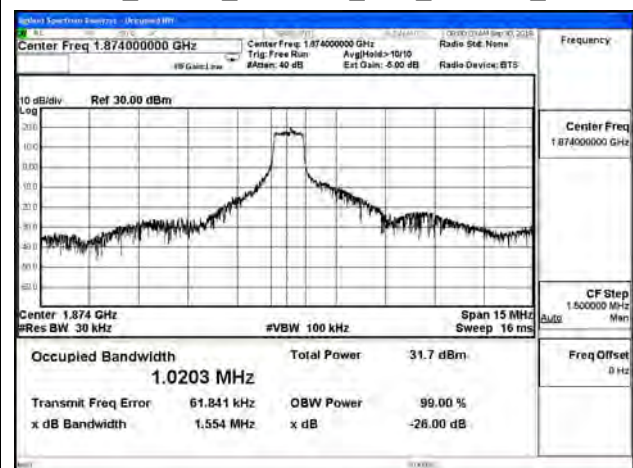
Cat M1_Band 2_CH18900_10M_16-QAM_5RB1



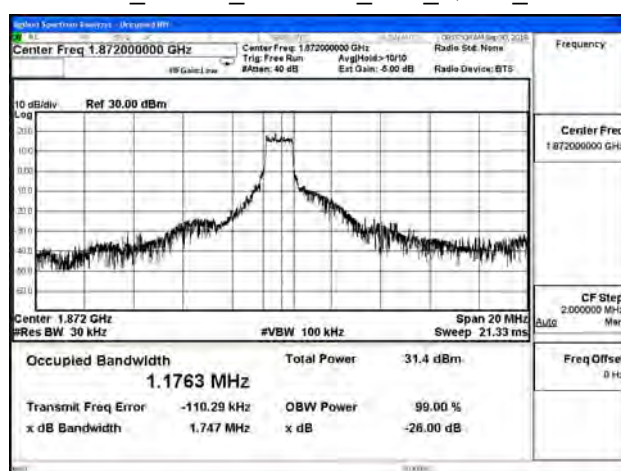
Cat M1_Band 2_CH18900_15M_QPSK_6RB0



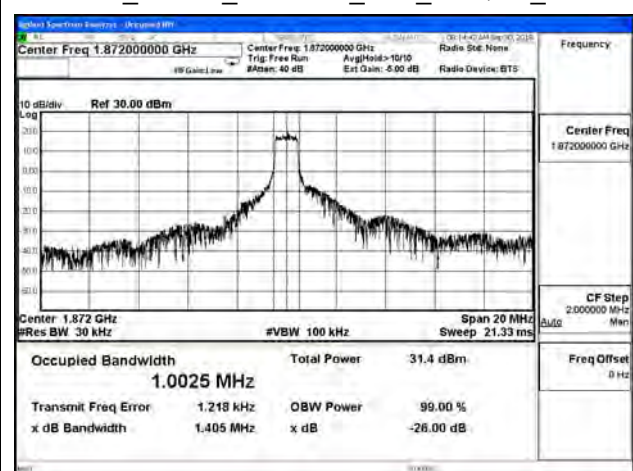
Cat M1_Band 2_CH18900_15M_16-QAM_5RB1



Cat M1_Band 2_CH18900_20M_QPSK_6RB0



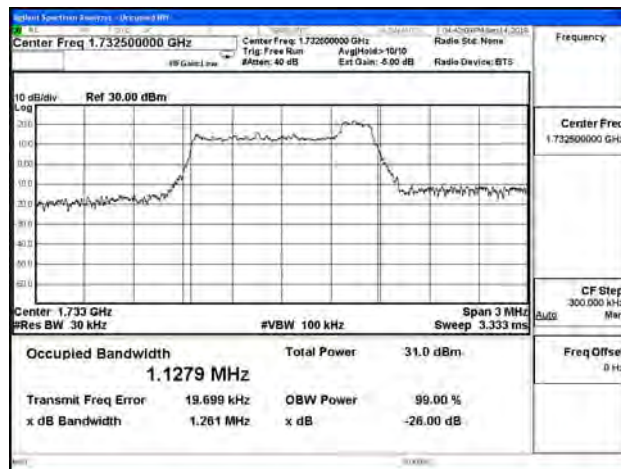
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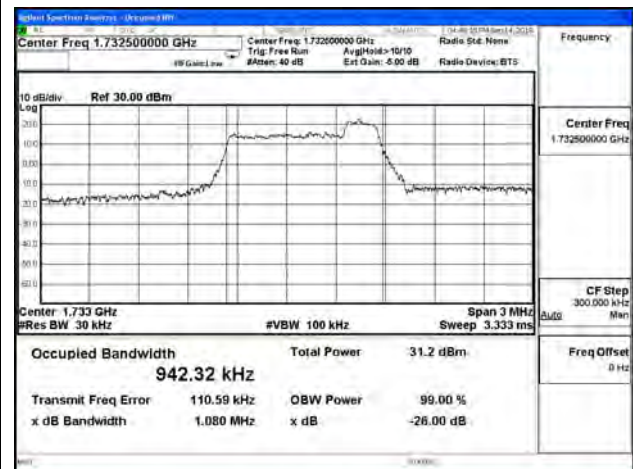
Product	ME910C1-WW		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/09/14	Test Site	SR10-H

Bandwidth	Channel Freq. (MHz)	Modulation	RB No.	RB offset	Measure Level (MHz)		Limit (MHz)
					26dB BW	99% BW	
1.4MHz	20175	QPSK	6	0	1.261	1.127	NA
	1732.5	16-QAM	5	1	1.080	0.942	NA
3MHz	20175	QPSK	6	0	1.399	1.291	NA
	1732.5	16-QAM	5	1	1.436	1.282	NA
5MHz	20175	QPSK	6	0	1.809	1.140	NA
	1732.5	16-QAM	5	1	1.570	0.975	NA
10MHz	20175	QPSK	6	0	1.990	1.150	NA
	1732.5	16-QAM	5	1	1.578	0.992	NA
15MHz	20175	QPSK	6	0	1.699	1.178	NA
	1732.5	16-QAM	5	1	1.550	0.992	NA
20MHz	20175	QPSK	6	0	1.732	1.133	NA
	1732.5	16-QAM	5	1	1.421	0.965	NA

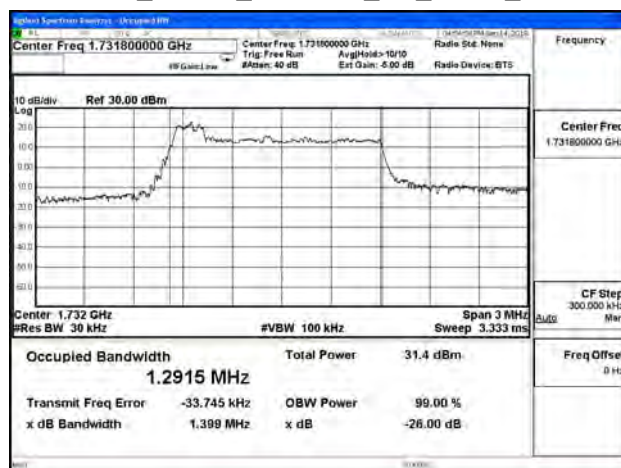
Cat M1_Band 4_CH20175_1.4M_QPSK_6RB0



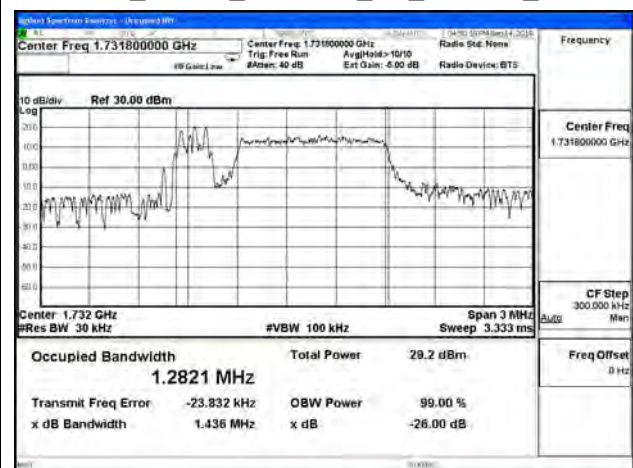
Cat M1_Band 4_CH20175_1.4M_16-QAM_5RB1



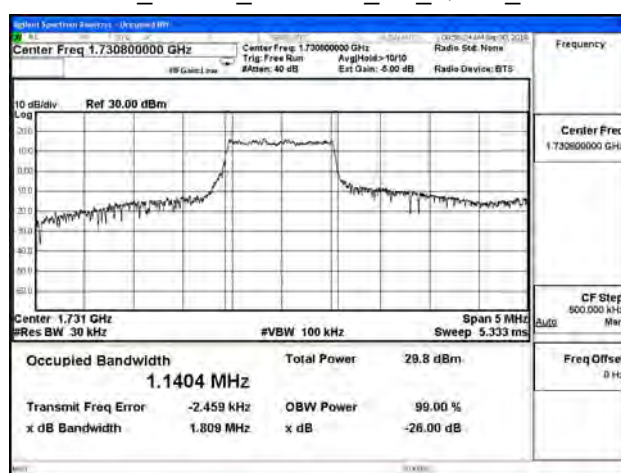
Cat M1_Band 4_CH20175_3M_QPSK_6RB0



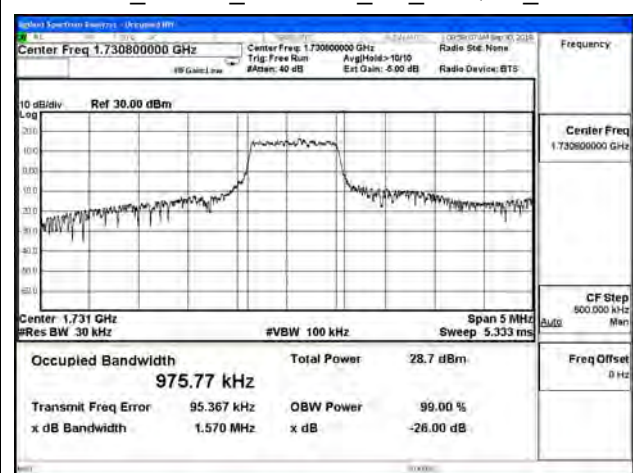
Cat M1_Band 4_CH20175_3M_16-QAM_5RB1



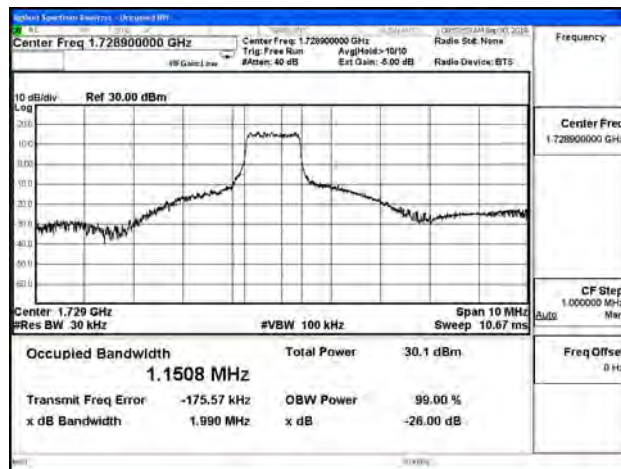
Cat M1_Band 4_CH20175_5M_QPSK_6RB0



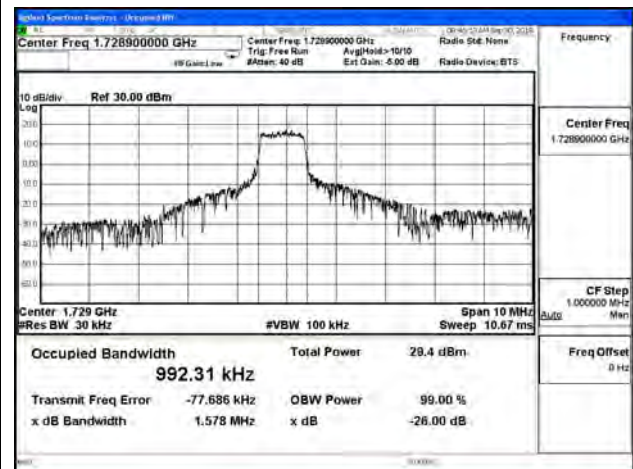
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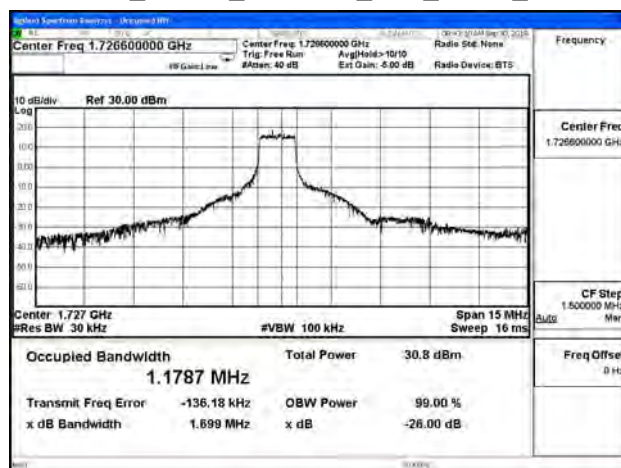
Cat M1_Band 4_CH20175_10M_QPSK_6RB0



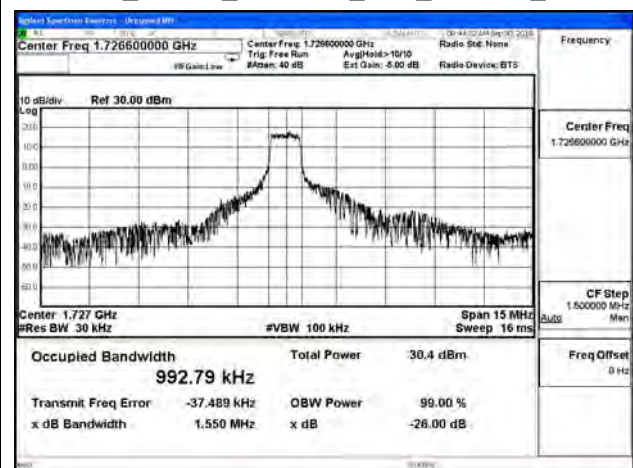
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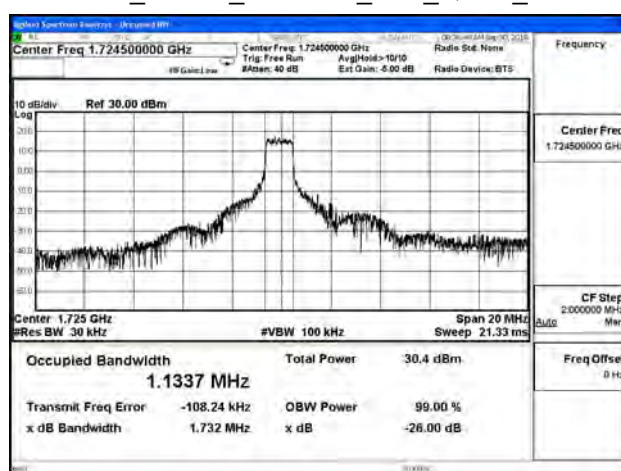
Cat M1_Band 4_CH20175_15M_QPSK_6RB0



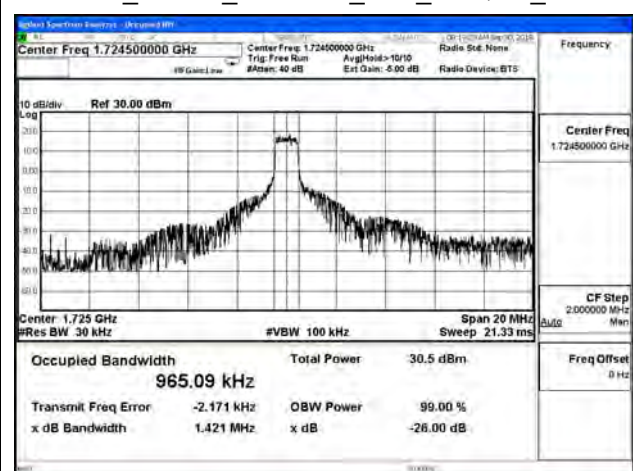
Cat M1_Band 4_CH20175_15M_16-QAM_5RB1



Cat M1_Band 4_CH20175_20M_QPSK_6RB0



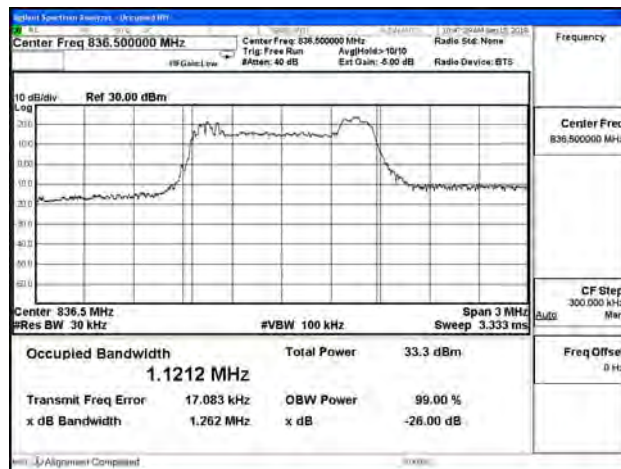
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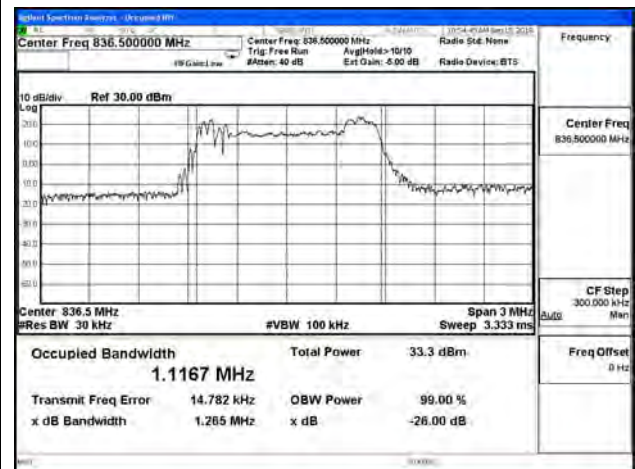
Product	ME910C1-WW		
Test Item	Occupied Bandwidth		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/09/14	Test Site	SR10-H

Bandwidth	Channel Freq. (MHz)	Modulation	RB No.	RB offset	Measure Level (MHz)		Limit (MHz)
					26dB BW	99% BW	
1.4MHz	20525	QPSK	6	0	1.262	1.121	NA
	836.5	16-QAM	5	1	1.265	1.116	NA
3MHz	20525	QPSK	6	0	1.437	1.284	NA
	836.5	16-QAM	5	1	1.419	1.279	NA
5MHz	20525	QPSK	6	0	1.412	1.111	NA
	836.5	16-QAM	5	1	1.557	1.007	NA
10MHz	20525	QPSK	6	0	1.554	1.156	NA
	836.5	16-QAM	5	1	1.529	1.036	NA

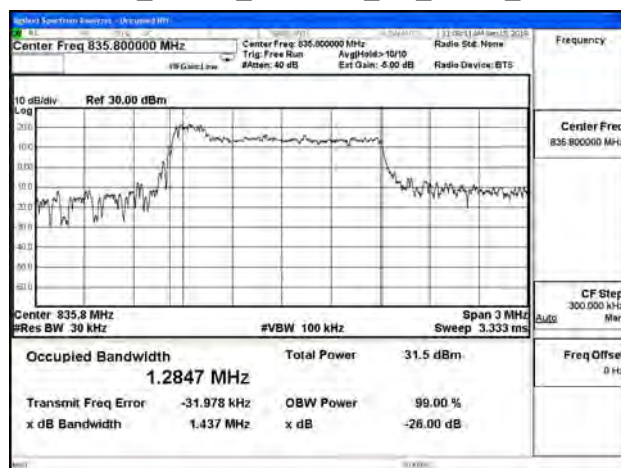
Cat M1_Band 5_CH20525_1.4M_QPSK_6RB0



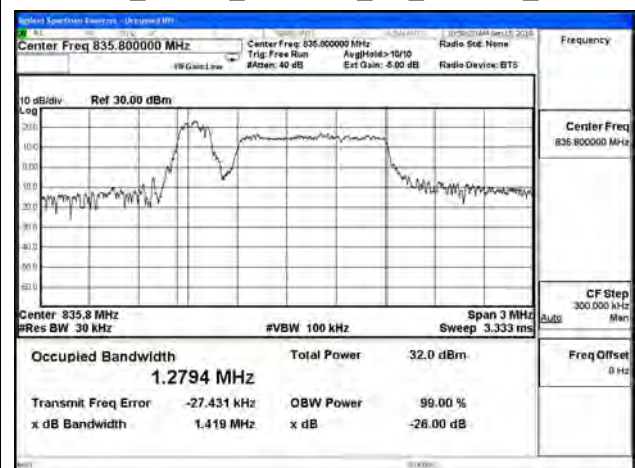
Cat M1_Band 5_CH20525_1.4M_16-QAM_5RB1



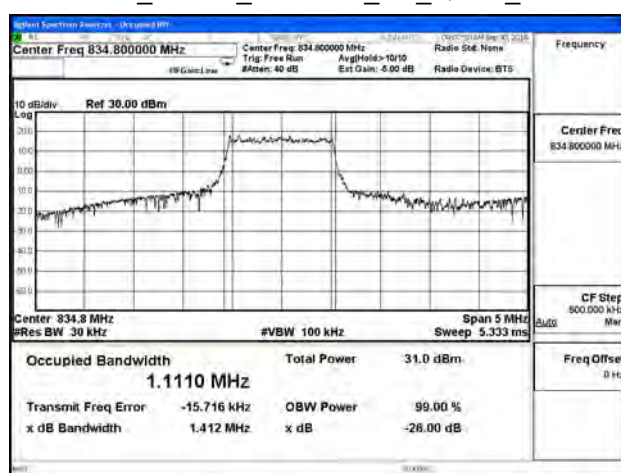
Cat M1_Band 5_CH20525_3M_QPSK_6RB0



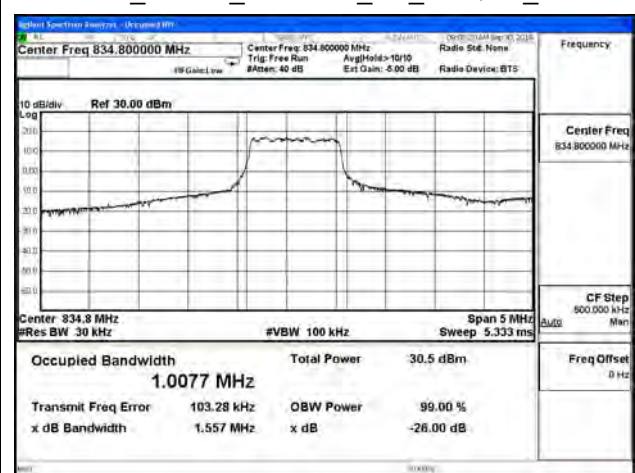
Cat M1_Band 5_CH20525_3M_16-QAM_5RB1



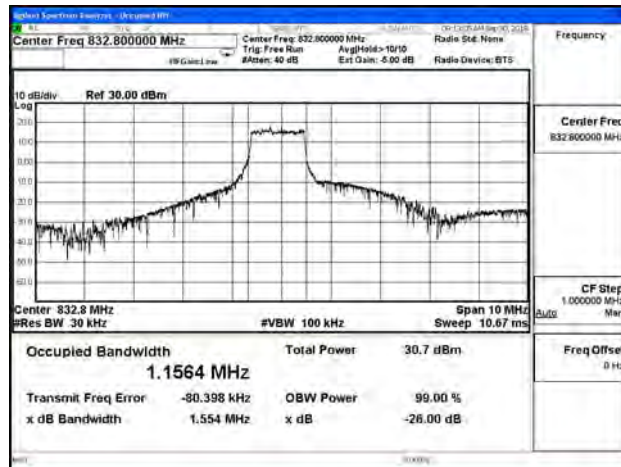
Cat M1_Band 5_CH20525_5M_QPSK_6RB0



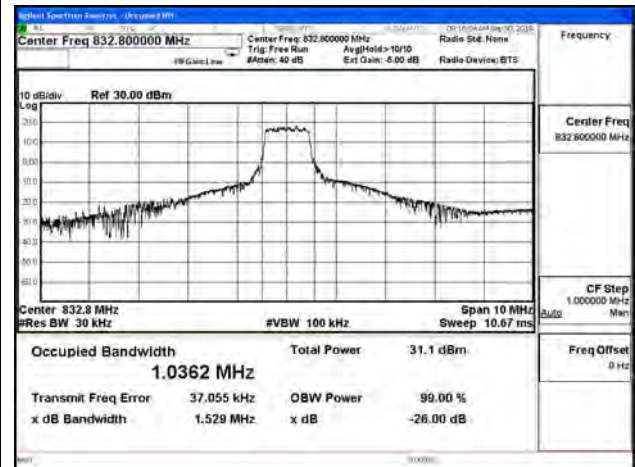
Cat M1_Band 5_CH20525_5M_16-QAM_5RB1



Cat M1_Band 5_CH20525_10M_QPSK_6RB0



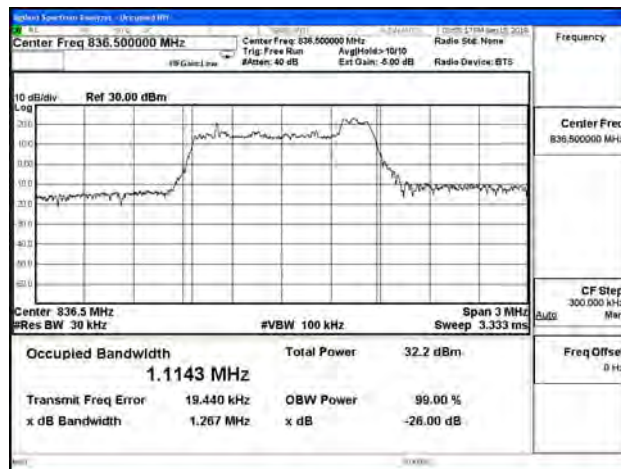
Cat M1_Band 5_CH20525_10M_16-QAM_5RB1



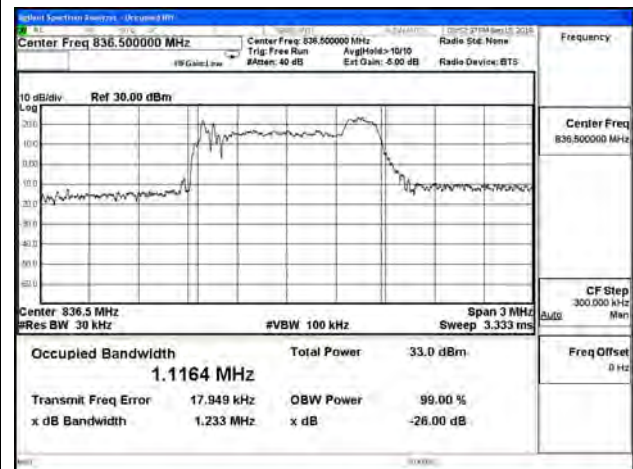
Product	ME910C1-WW		
Test Item	Occupied Bandwidth		
Test Mode	Mode 4: LTE Band 26 (Part 22)		
Date of Test	2018/09/14	Test Site	SR10-H

Bandwidth	Channel Freq. (MHz)	Modulation	RB No.	RB offset	Measure Level (MHz)		Limit (MHz)
					26dB BW	99% BW	
1.4MHz	26915	QPSK	6	0	1.267	1.114	NA
	836.5	16-QAM	5	1	1.233	1.116	NA
3MHz	26915	QPSK	6	0	1.432	1.290	NA
	836.5	16-QAM	5	1	1.489	1.281	NA
5MHz	26915	QPSK	6	0	1.698	1.120	NA
	836.5	16-QAM	5	1	1.479	1.002	NA
10MHz	26915	QPSK	6	0	1.545	1.137	NA
	836.5	16-QAM	5	1	1.517	0.990	NA
15MHz	26915	QPSK	6	0	1.579	1.130	NA
	836.5	16-QAM	5	1	1.474	0.987	NA

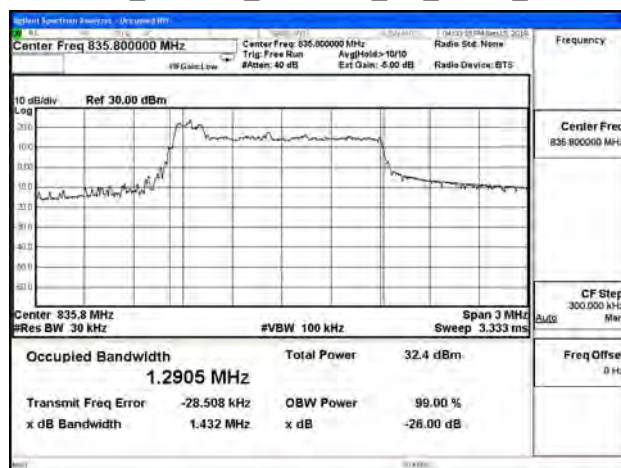
Cat M1_Band 26_CH26915_1.4M_QPSK_6RB0



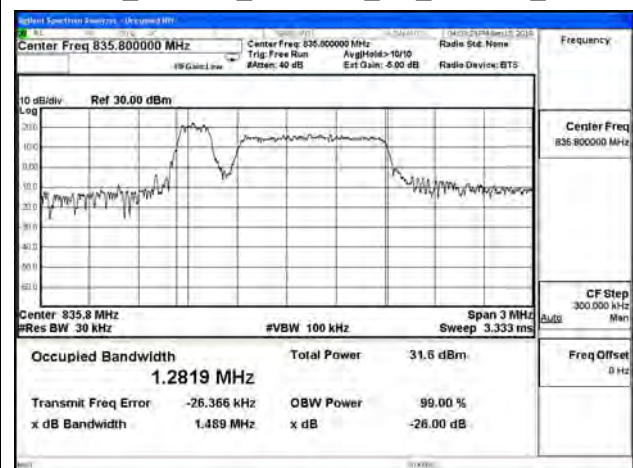
Cat M1_Band 26_CH26915_1.4M_16-QAM_5RB1



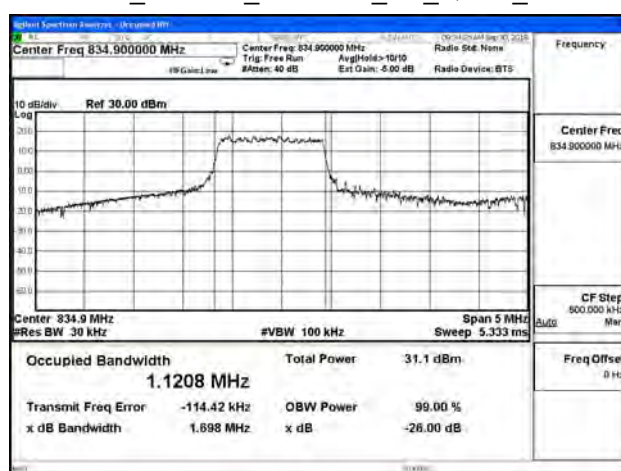
Cat M1_Band 26_CH26915_3M_QPSK_6RB0



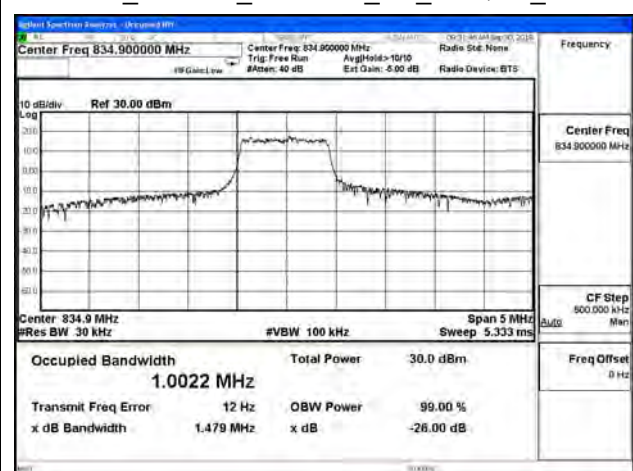
Cat M1_Band 26_CH26915_3M_16-QAM_5RB1



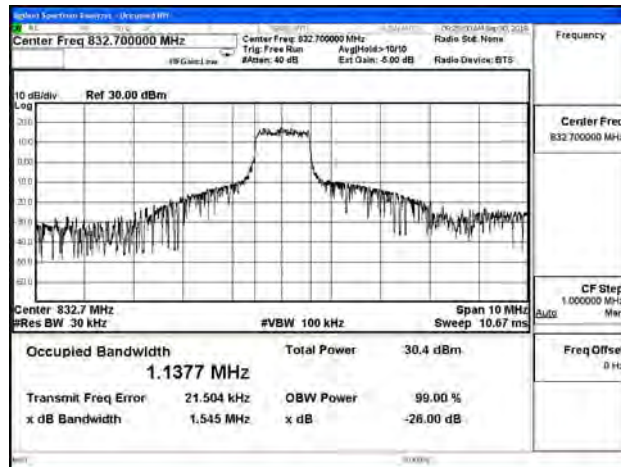
Cat M1_Band 26_CH26915_5M_QPSK_6RB0



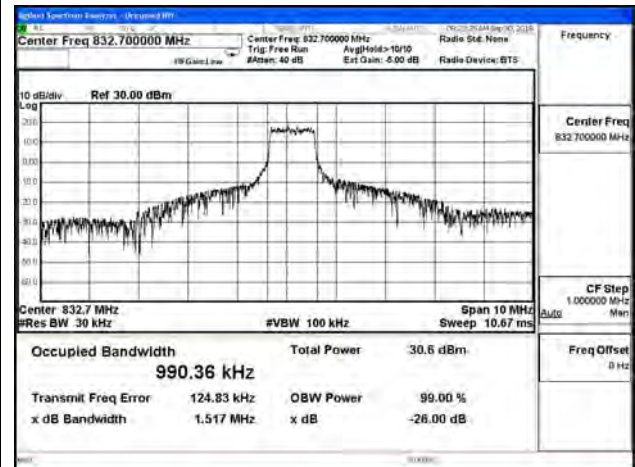
Cat M1_Band 26_CH26915_5M_16-QAM_5RB1



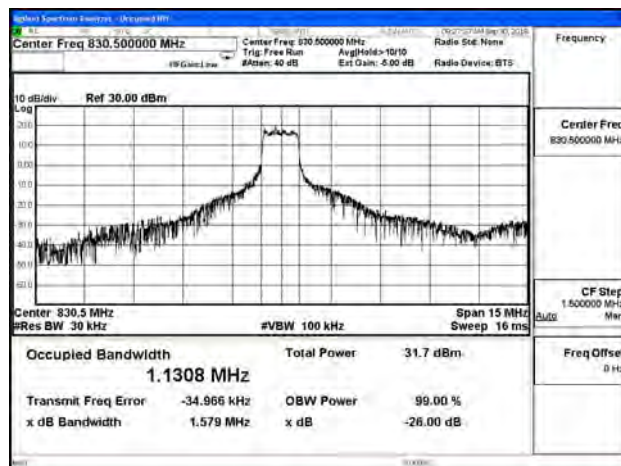
Cat M1_Band 26_CH26915_10M_QPSK_6RB0



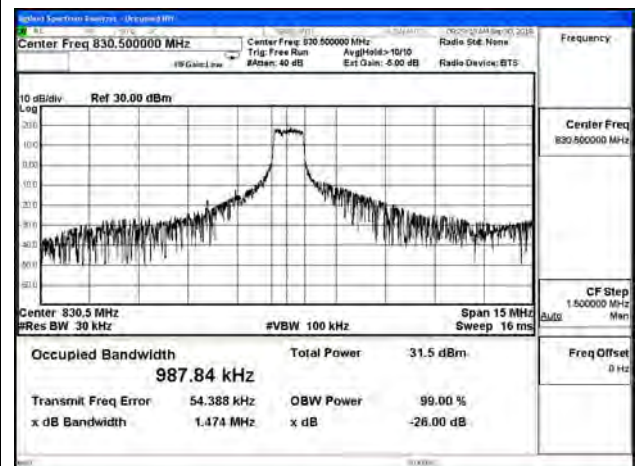
Cat M1_Band 26_CH26915_10M_16-QAM_5RB1



Cat M1_Band 26_CH26915_15M_QPSK_6RB0



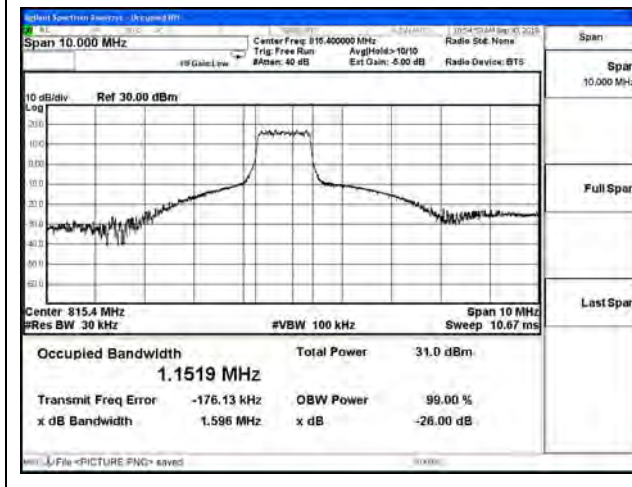
Cat M1_Band 26_CH26915_15M_16-QAM_5RB1



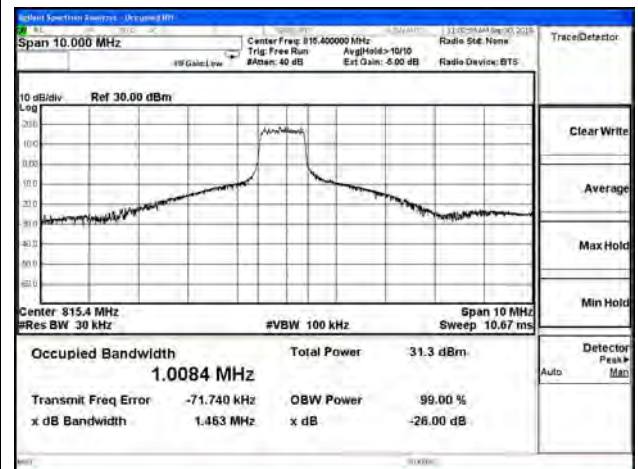
Product	ME910C1-WW		
Test Item	Occupied Bandwidth		
Test Mode	Mode 4: LTE Band 26 (Part 90)		
Date of Test	2018/09/15	Test Site	SR10-H

Bandwidth	Channel Freq. (MHz)	Modulation	RB No.	RB offset	Measure Level (MHz)		Limit (MHz)
					26dB BW	99% BW	
1.4MHz	26740	QPSK	6	0	1.262	1.118	NA
	819	16-QAM	5	1	1.278	1.129	NA
3MHz	26740	QPSK	6	0	1.510	1.293	NA
	819	16-QAM	5	1	1.424	1.283	NA
5MHz	26740	QPSK	6	0	1.407	1.124	NA
	819	16-QAM	5	1	1.543	1.025	NA
10MHz	26720	QPSK	6	0	1.596	1.151	NA
	819	16-QAM	5	1	1.436	1.008	NA

Cat M1_Band 26_CH26740_10M_QPSK_6RB0



Cat M1_Band 26_CH26740_10M_16-QAM_5RB1



Product	ME910C1-WW		
Test Item	Occupied Bandwidth		
Test Mode	Mode 4: LTE Band 26 (Part 90)		
Date of Test	2019/07/05	Test Site	SR10-H

Bandwidth	Channel Freq. (MHz)	Modulation	RB No.	RB offset	Measure Level (MHz)		Limit (MHz)
					26dB BW	99% BW	
1.4MHz	26790	QPSK	6	0	1.248	1.123	NA
	824	16-QAM	5	1	1.237	1.112	NA
3MHz	26790	QPSK	6	0	1.424	1.280	NA
	824	16-QAM	5	1	1.470	1.302	NA
5MHz	26790	QPSK	6	0	1.556	1.114	NA
	824	16-QAM	5	1	1.529	0.999	NA
10MHz	26790	QPSK	6	0	1.922	1.198	NA
	824	16-QAM	5	1	1.635	1.042	NA

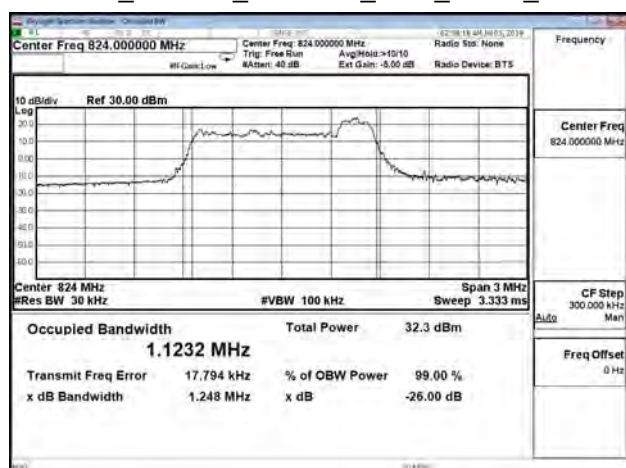
Cat M1_Band 26_CH26790_3M_QPSK_6RB0



Cat M1_Band 26_CH26790_3M_16-QAM_5RB1



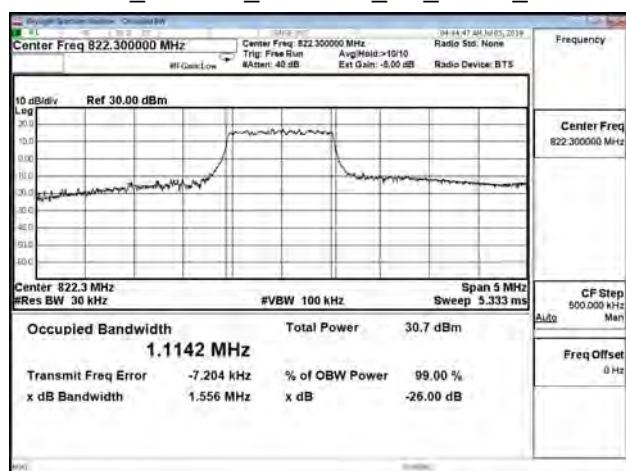
Cat M1_Band 26_CH26790_1.4M_QPSK_6RB0



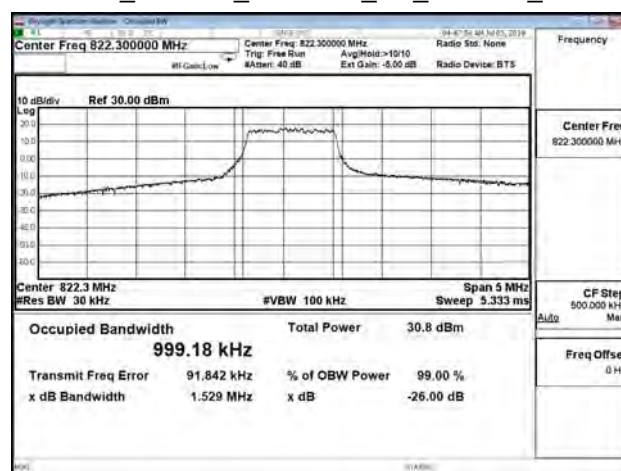
Cat M1_Band 26_CH26790_1.4M_16-QAM_5RB1



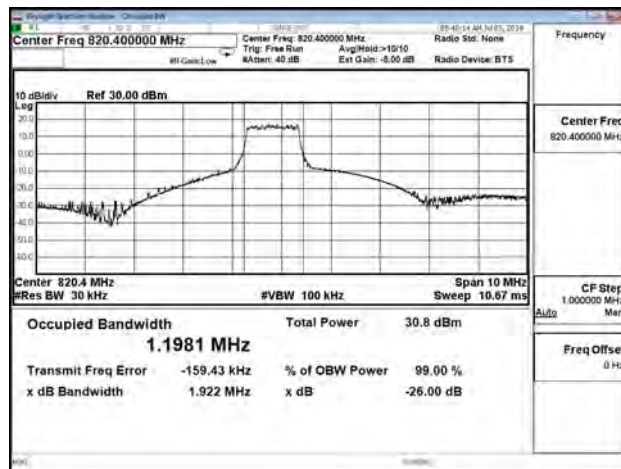
Cat M1_Band 26_CH26790_5M_QPSK_6RB0



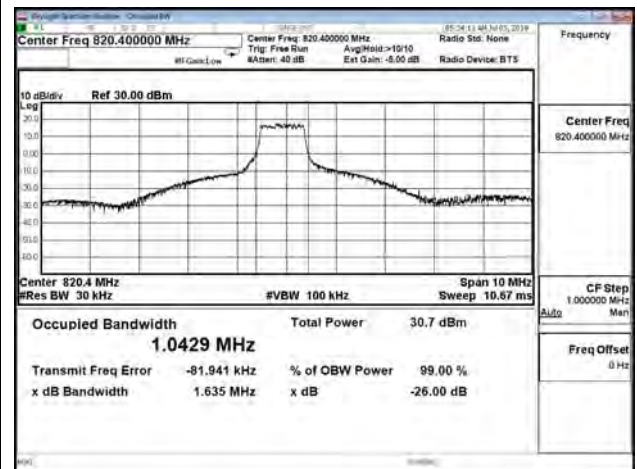
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Cat M1_Band 26_CH26790_10M_QPSK_6RB0

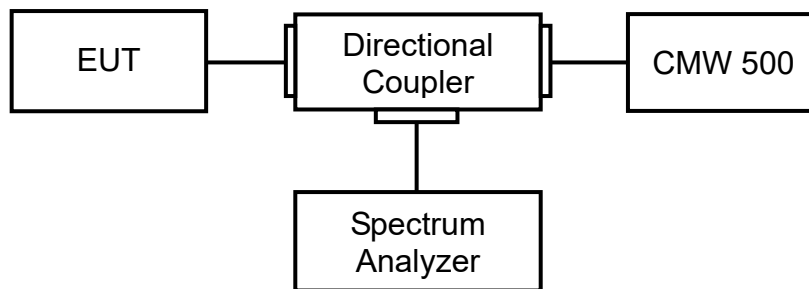


Cat M1_Band 26_CH26790_10M_16-QAM_5RB1



5. Peak To Average Ratio

5.1. Test Setup



5.2. Test Procedure

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth.
2. Set the number of counts to a value that stabilizes the measured CCDF curve.
3. Record the maximum PAPR level associated with a probability of 0.1 %.

5.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.7.2

ANSI C63.26: 2015 Sub-clause 5.2.3.4

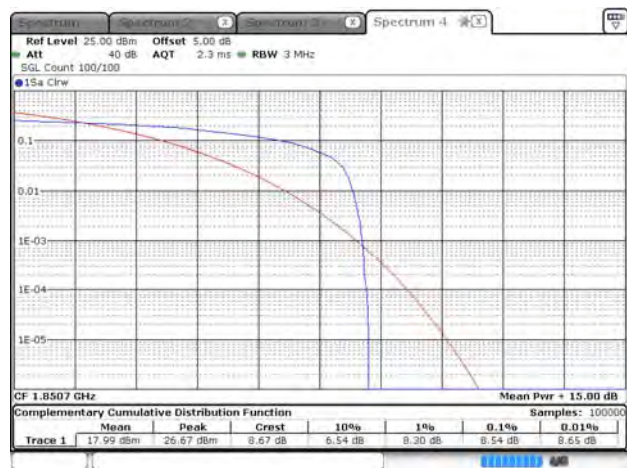
5.4. Limit

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13dB.

5.5. Test Result

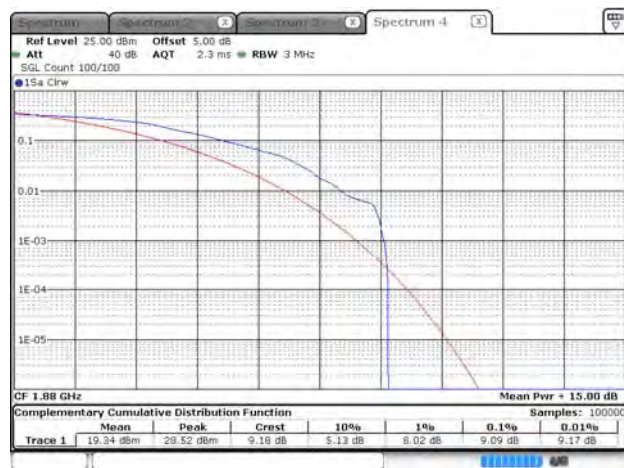
Product	ME910C1-WW		
Test Item	Peak To Average Ratio		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2018/09/12	Test Site	SR10-H

Cat M1_Band 2_CH18607_1.4M_QPSK_1RB0



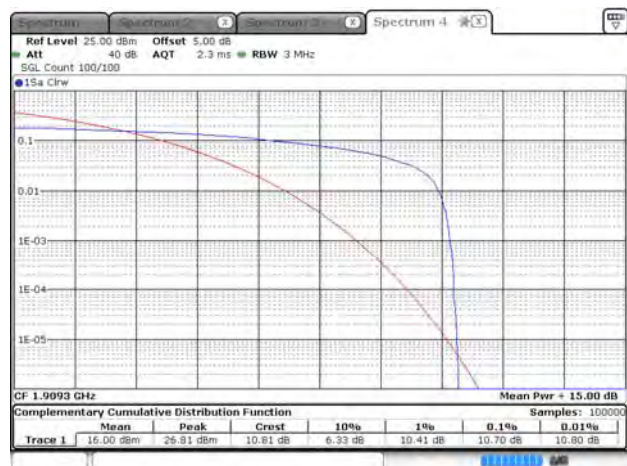
Date: 12 SEP 2018 10:31:43

Cat M1_Band 2_CH18900_1.4M_QPSK_1RB0



Date: 12 SEP 2018 10:39:40

Cat M1_Band 2_CH19193_1.4M_QPSK_1RB0



Date: 12 SEP 2018 10:45:09

Cat M1_Band 2_CH18615_3M_QPSK_1RB0



Date: 12 SEP 2018 10:53:27

Cat M1_Band 2_CH18900_3M_QPSK_1RB0



Date: 12 SEP 2018 11:08:13

Cat M1_Band 2_CH19185_3M_QPSK_1RB0



Date: 12 SEP 2018 11:05:30

Cat M1_Band 2_CH18625_5M_QPSK_1RB0



Cat M1_Band 2_CH18900_5M_QPSK_1RB0



Cat M1_Band 2_CH19175_5M_QPSK_1RB0



Cat M1_Band 2_CH18650_10M_QPSK_1RB0



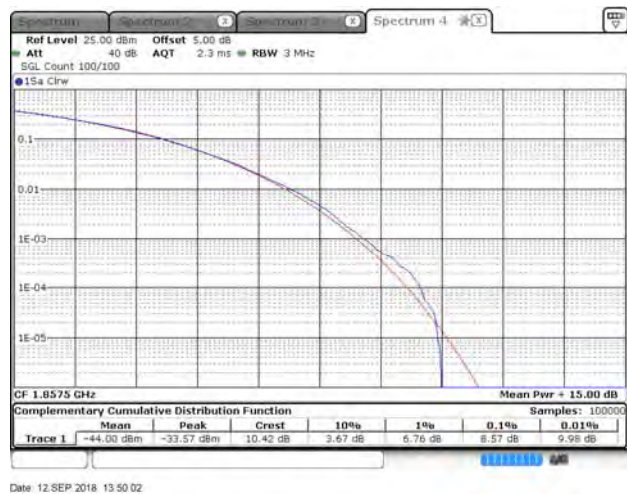
Cat M1_Band 2_CH18900_10M_QPSK_1RB0



Cat M1_Band 2_CH19150_10M_QPSK_1RB0



Cat M1_Band 2_CH18675_15M_QPSK_1RB0



Cat M1_Band 2_CH18900_15M_QPSK_1RB0



Cat M1_Band 2_CH19125_15M_QPSK_1RB0



Cat M1_Band 2_CH18700_20M_QPSK_1RB0



Cat M1_Band 2_CH18900_20M_QPSK_1RB0



Cat M1_Band 2_CH19100_20M_QPSK_1RB0



Product	ME910C1-WW		
Test Item	Peak To Average Ratio		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/09/12	Test Site	SR10-H

Cat M1_Band 4_CH19957_1.4M_QPSK_1RB0



Date: 12 SEP 2018 15:43:50

Cat M1_Band 4_CH20175_1.4M_QPSK_1RB0



Date: 12 SEP 2018 15:48:27

Cat M1_Band 4_CH20393_1.4M_QPSK_1RB0



Date: 12 SEP 2018 15:55:26

Cat M1_Band 4_CH19965_3M_QPSK_1RB0



Cat M1_Band 4_CH20175_3M_QPSK_1RB0



Cat M1_Band 4_CH20385_3M_QPSK_1RB0



Cat M1_Band 4_CH19975_5M_QPSK_1RB0



Cat M1_Band 4_CH20175_5M_QPSK_1RB0



Cat M1_Band 4_CH20375_5M_QPSK_1RB0



Cat M1_Band 4_CH20000_10M_QPSK_1RB0



Cat M1_Band 4_CH20175_10M_QPSK_1RB0



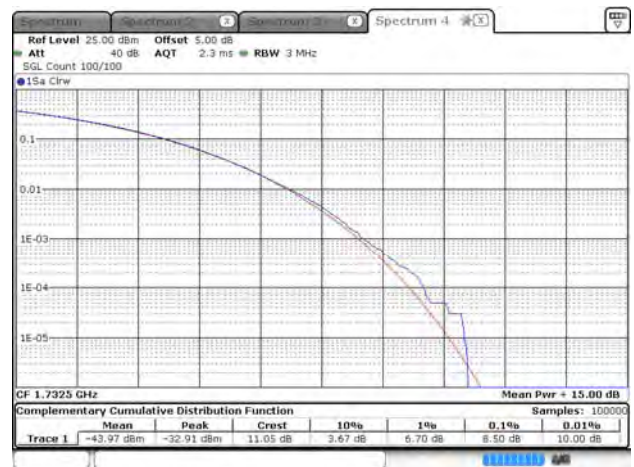
Cat M1_Band 4_CH20350_10M_QPSK_1RB0



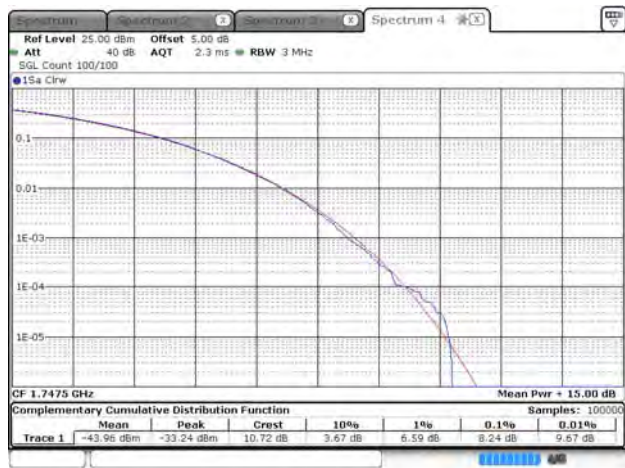
Cat M1_Band 4_CH20025_15M_QPSK_1RB0



Cat M1_Band 4_CH20175_15M_QPSK_1RB0



Cat M1_Band 4_CH20325_15M_QPSK_1RB0



Cat M1_Band 4_CH20050_20M_QPSK_1RB0



Cat M1_Band 4_CH20175_20M_QPSK_1RB0



Cat M1_Band 4_CH20300_20M_QPSK_1RB0



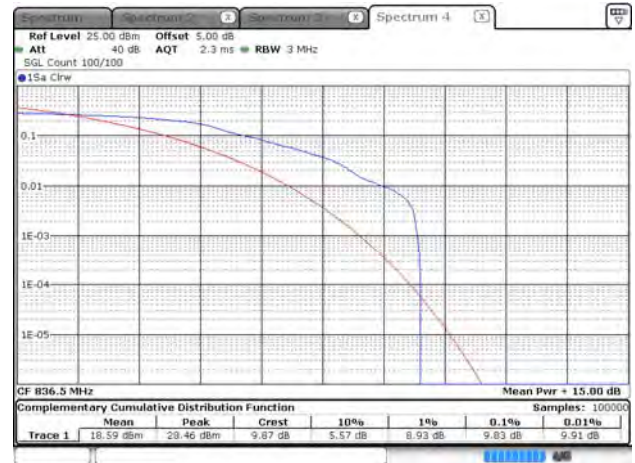
Product	ME910C1-WW		
Test Item	Peak To Average Ratio		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/09/12	Test Site	SR10-H

Cat M1_Band 5_CH20407_1.4M_QPSK_1RB0



Date: 12 SEP 2018 15:59:24

Cat M1_Band 5_CH20525_1.4M_QPSK_1RB0



Date: 12 SEP 2018 16:06:58

Cat M1_Band 2_CH19193_1.4M_QPSK_1RB0



Date: 12 SEP 2018 16:12:07

Cat M1_Band 5_CH20415_3M_QPSK_1RB0



Cat M1_Band 5_CH20525_3M_QPSK_1RB0



Cat M1_Band 5_CH20635_3M_QPSK_1RB0



Cat M1_Band 5_CH20425_5M_QPSK_1RB0



Cat M1_Band 5_CH20525_5M_QPSK_1RB0



Cat M1_Band 5_CH20625_5M_QPSK_1RB0



Cat M1_Band 5_CH20450_10M_QPSK_1RB0



Date: 12 SEP 2018 17:11:40

Cat M1_Band 5_CH20525_10M_QPSK_1RB0



Date: 12 SEP 2018 17:24:50

Cat M1_Band 5_CH20600_10M_QPSK_1RB0



Date: 12 SEP 2018 17:28:33

Product	ME910C1-WW		
Test Item	Peak To Average Ratio		
Test Mode	Mode 4: LTE Band 26 (Part 22)		
Date of Test	2018/09/13	Test Site	SR10-H

Cat M1_Band 26_CH26797_1.4M_QPSK_1RB0



Date: 13 SEP 2018 11:39:32

Cat M1_Band 26_CH26915_1.4M_QPSK_1RB0



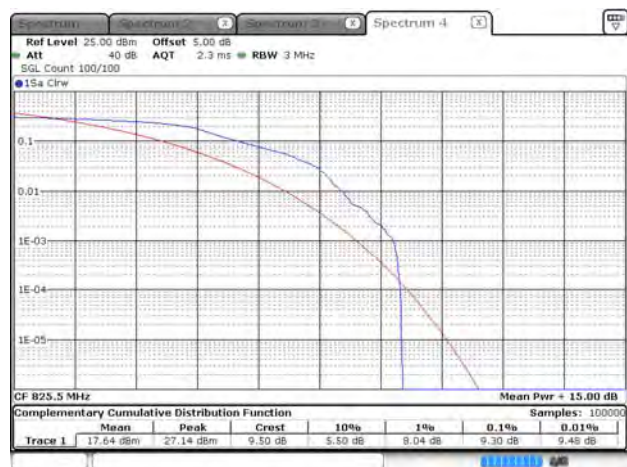
Date: 13 SEP 2018 11:45:58

Cat M1_Band 26_CH27033_1.4M_QPSK_1RB0



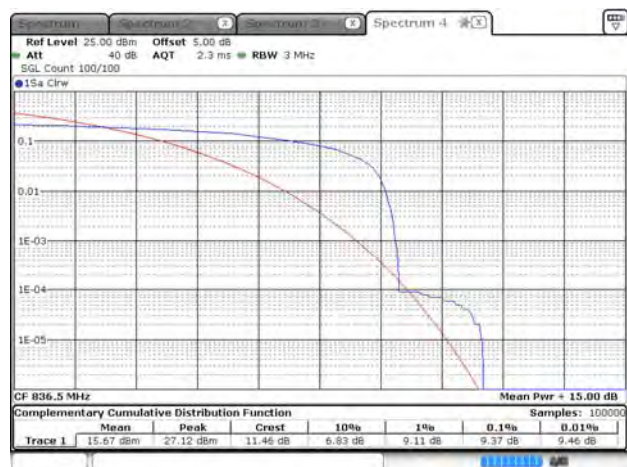
Date: 13 SEP 2018 11:54:37

Cat M1_Band 26_CH26805_3M_QPSK_1RB0



Date: 13 SEP 2018 13:26:42

Cat M1_Band 26_CH26915_3M_QPSK_1RB0



Date: 13 SEP 2018 13:39:33

Cat M1_Band 26_CH27025_3M_QPSK_1RB0



Date: 13 SEP 2018 13:58:53

Cat M1_Band 26_CH26815_5M_QPSK_1RB0



Cat M1_Band 26_CH26915_5M_QPSK_1RB0



Cat M1_Band 26_CH27015_5M_QPSK_1RB0



Cat M1_Band 26_CH26840_10M_QPSK_1RB0



Cat M1_Band 26_CH26915_10M_QPSK_1RB0



Cat M1_Band 26_CH26990_10M_QPSK_1RB0



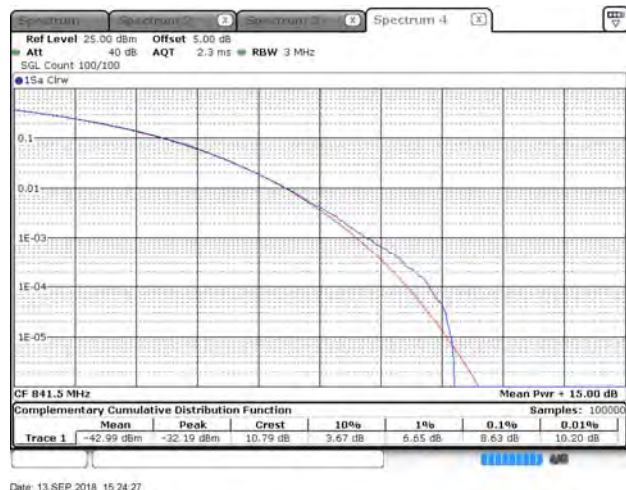
Cat M1_Band 26_CH26865_15M_QPSK_1RB0



Cat M1_Band 26_CH26915_15M_QPSK_1RB0



Cat M1_Band 26_CH26965_15M_QPSK_1RB0



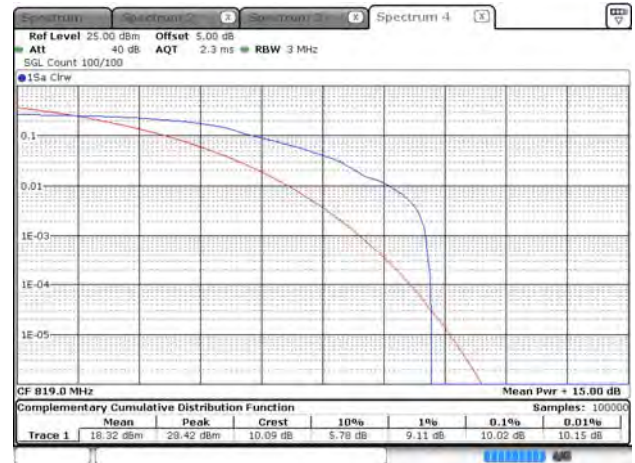
Product	ME910C1-WW		
Test Item	Peak To Average Ratio		
Test Mode	Mode 4: LTE Band 26 (Part 90)		
Date of Test	2018/09/13	Test Site	SR10-H

Cat M1_Band 26_CH26697_1.4M_QPSK_1RB0



Date: 13 SEP 2018 10:18:14

Cat M1_Band 26_CH26740_1.4M_QPSK_1RB0



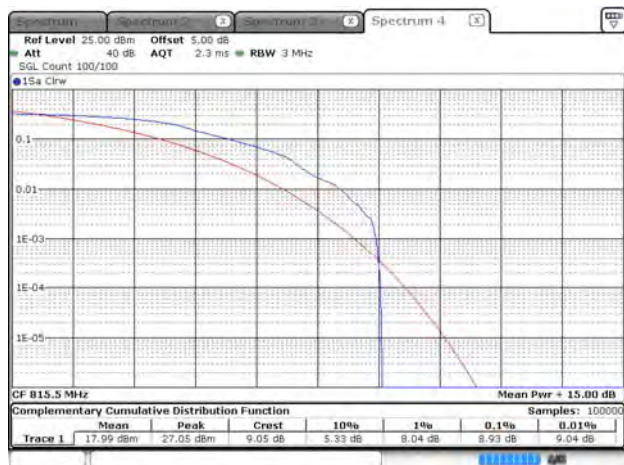
Date: 13 SEP 2018 10:29:17

Cat M1_Band 26_CH26783_1.4M_QPSK_1RB0



Date: 13 SEP 2018 10:34:06

Cat M1_Band 26_CH26705_3M_QPSK_1RB0



Cat M1_Band 26_CH26740_3M_QPSK_1RB0



Cat M1_Band 26_CH26775_3M_QPSK_1RB0



Cat M1_Band 26_CH26715_5M_QPSK_1RB0



Date: 13 SEP 2018 11:10:39

Cat M1_Band 26_CH26740_5M_QPSK_1RB0



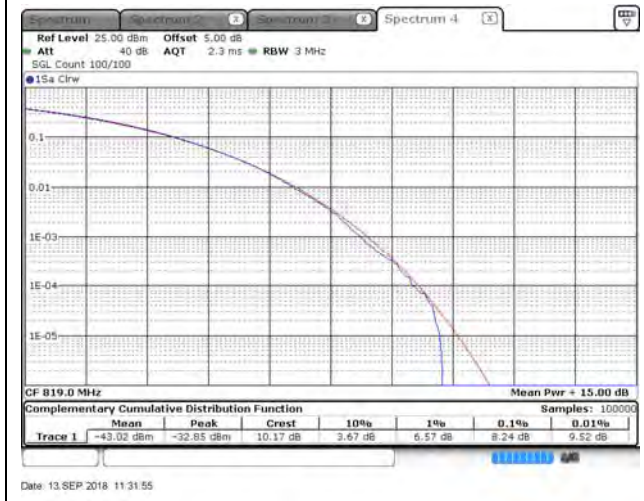
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Cat M1_Band 26_CH26765_5M_QPSK_1RB0



Date: 13 SEP 2018 11:22:34

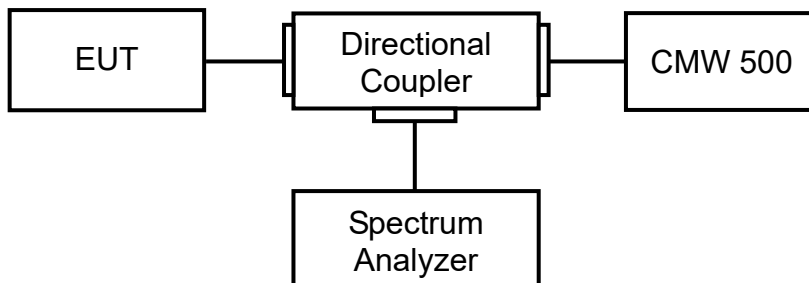
Cat M1_Band 26_CH26740_10M_QPSK_1RB0



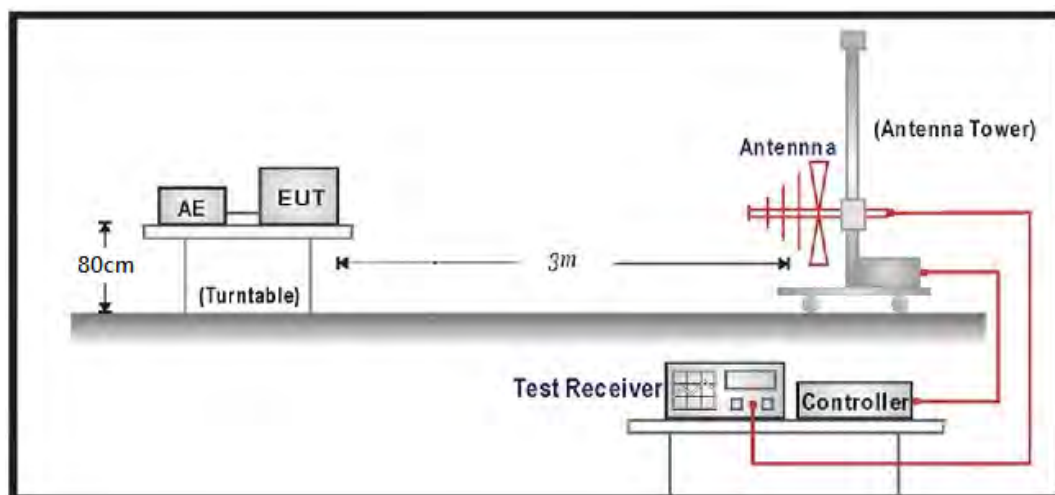
6. Spurious Emissions

6.1. Test Setup

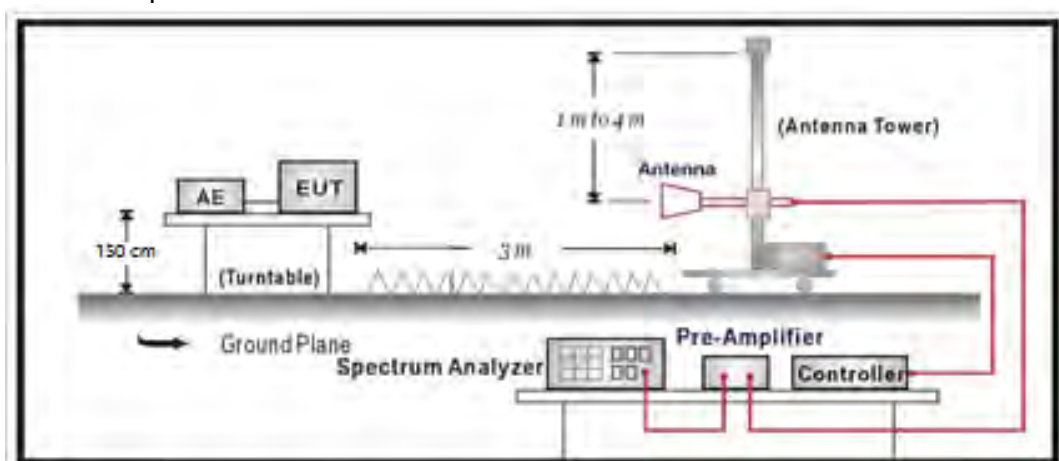
Conducted Spurious Measurement:



Radiated Spurious Measurement: below 1GHz



Radiated Spurious Measurement: above 1GHz



6.2. Test Procedure

Conducted Spurious Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- c) EUT Communicate with CMW500, then select a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.
- e) The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

- a) The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
- b) The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- c) The table was rotated 360 degrees to determine the position of the highest spurious emission.
- d) The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- e) Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 1MHz, Sweep 500ms, Taking the record of maximum spurious emission.
- f) A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- g) Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- h) Taking the record of output power at antenna port
- i) Repeat step 7 to step 8 for another polarization.
- j) $EIRP = SG - \text{Cable loss} + \text{Antenna Gain}$

6.3. Test Method

Conducted Spurious Measurement:

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 6.1

ANSI C63.26: 2015 Sub-clause 5.7

Radiated Spurious Measurement:

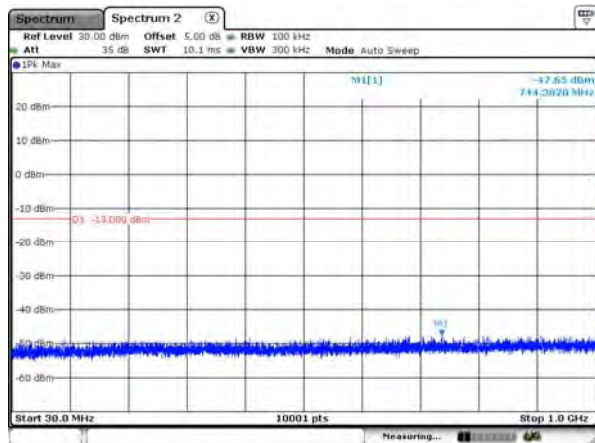
KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.8

ANSI C63.26: 2015 Sub-clause 5.5.3.2

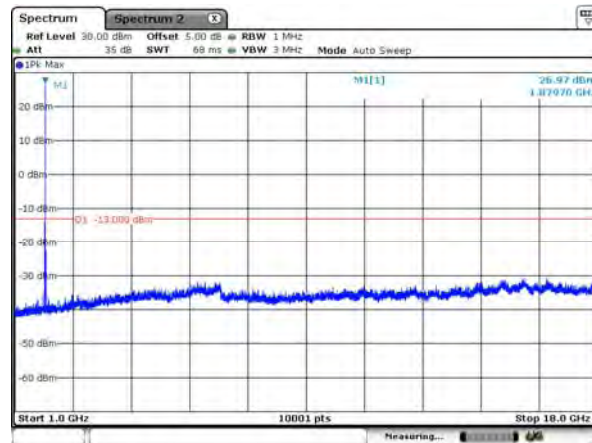
6.4. Test Result

Product	ME910C1-WW		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2018/09/19	Test Site	SR10-H

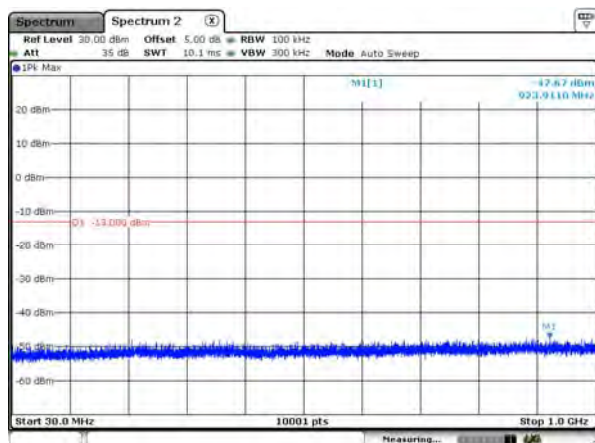
Band 2_CH18900_1.4M_1RB0_QPSK_Below 1G



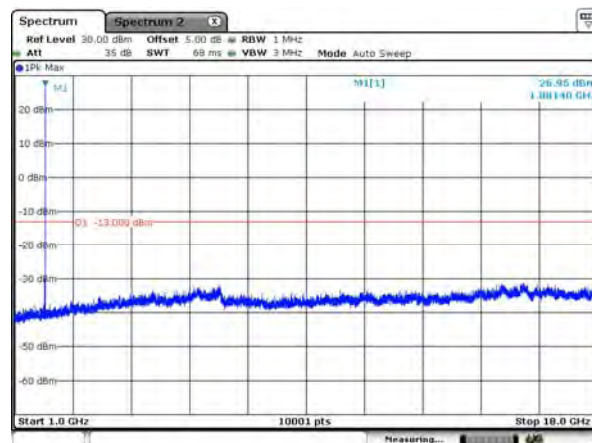
Band 2_CH18900_1.4M_1RB0_QPSK_Above 1G



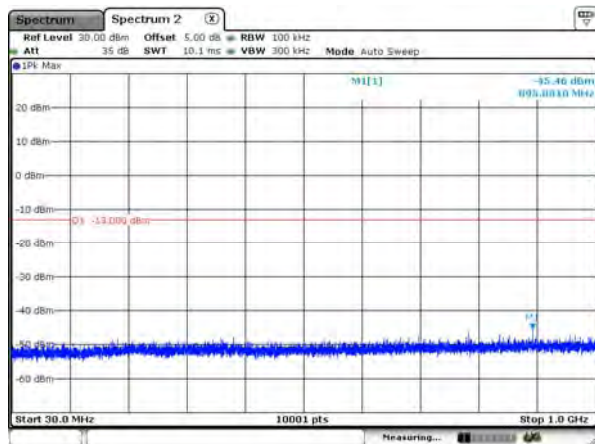
Band 2_CH18900_3M_1RB0_QPSK_Below 1G



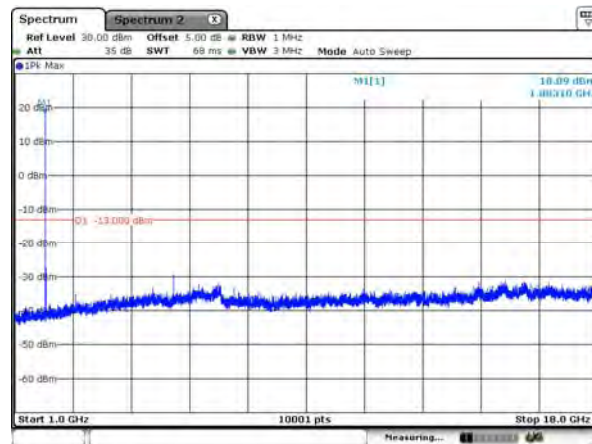
Band 2_CH18900_3M_1RB0_QPSK_Above 1G



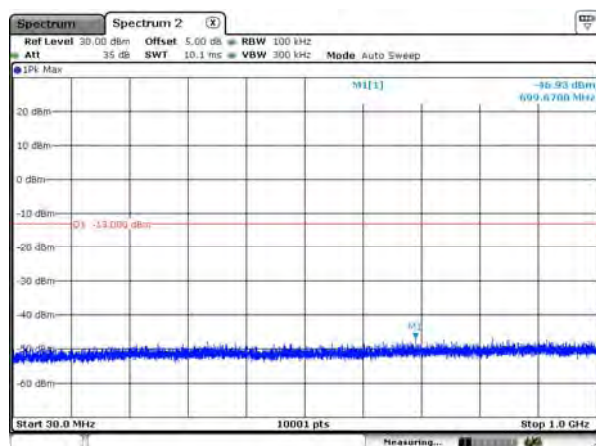
Band 2_CH18900_5M_1RB0_QPSK_Below 1G



Band 2_CH18900_5M_1RB0_QPSK_Above 1G

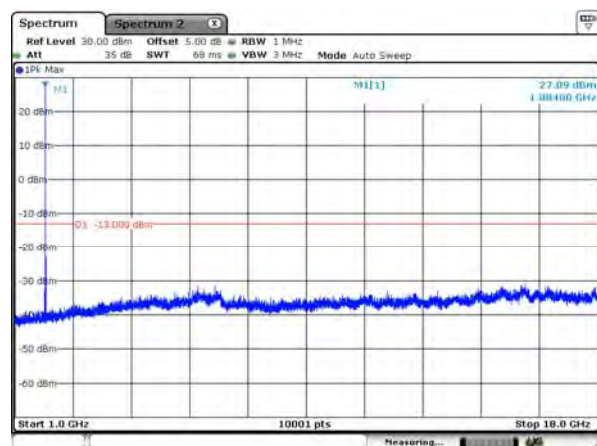


Band 2 CH18900 10M 1RB0 QPSK Below 1G



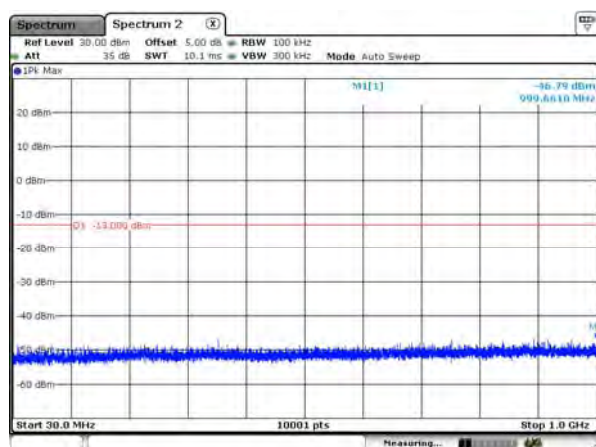
Date: 19 SEP 2018 01:33:33

Band 2 CH18900 10M 1RB0 QPSK Above 1G



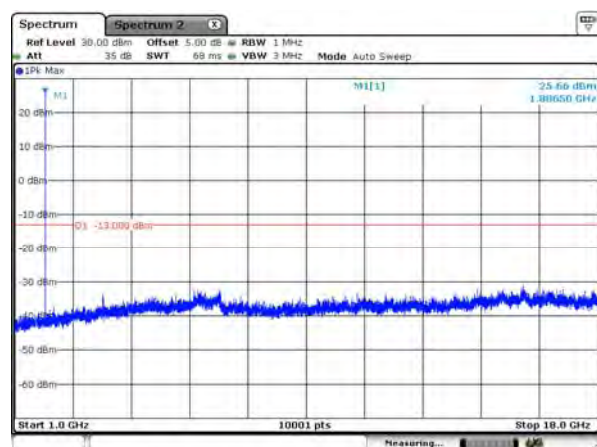
Date: 19 SEP 2018 01:33:04

Band 2	CH18900	15M	1RB0	QPSK	Below 1G
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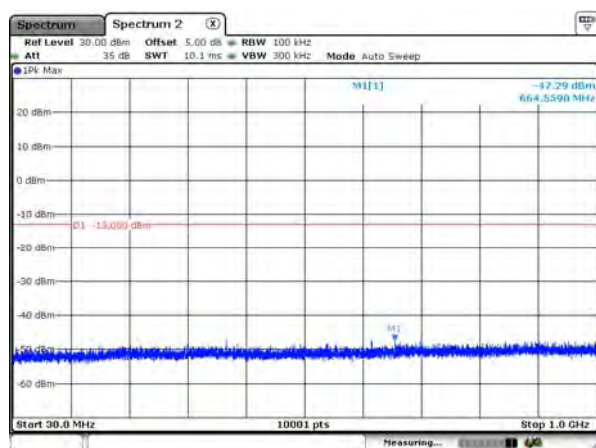
Date: 19 SEP 2018 01:38:15

Band 2	CH18900	15M	1RB0	QPSK	Above 1G
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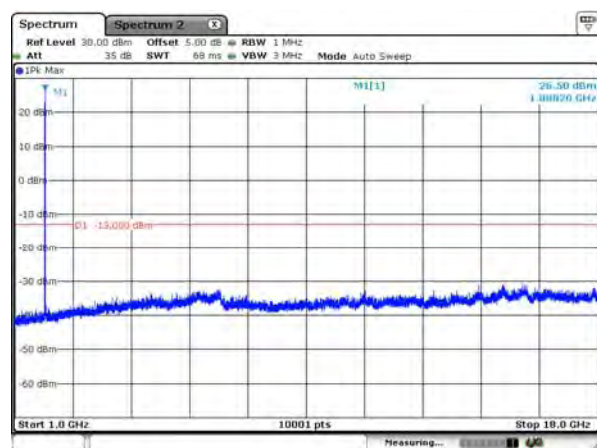
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Band 2_CH18900_20M_1RB0_QPSK_Below 1G



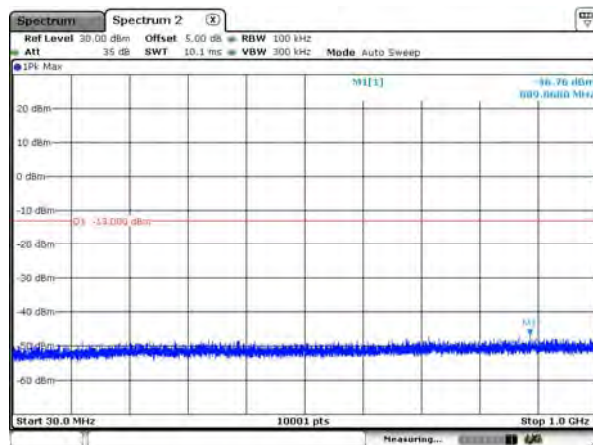
Date: 19 SEP 2018 01:44:04

Band 2_CH18900_20M_1RB0_QPSK_Above 1G



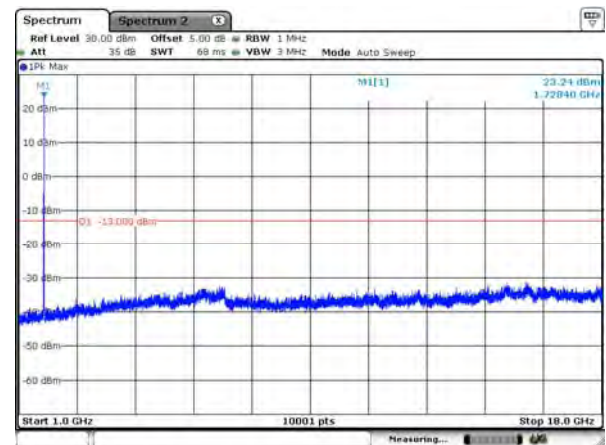
Date: 19 SEP 2018 01:43:43

Band 4_CH20175_10M_1RB0_QPSK_Below 1G



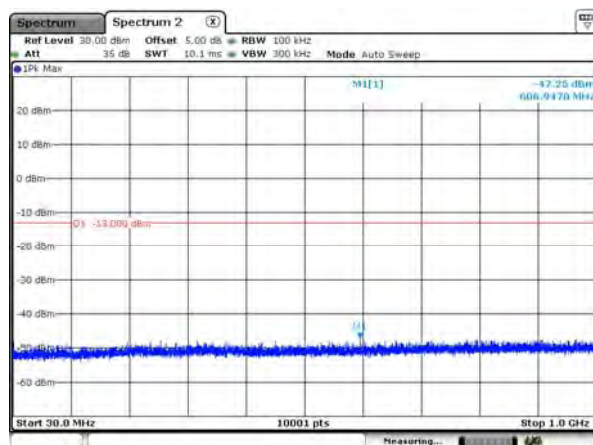
Date: 19 SEP 2018 02:00:44

Band 4_CH20175_10M_1RB0_QPSK_Above 1G



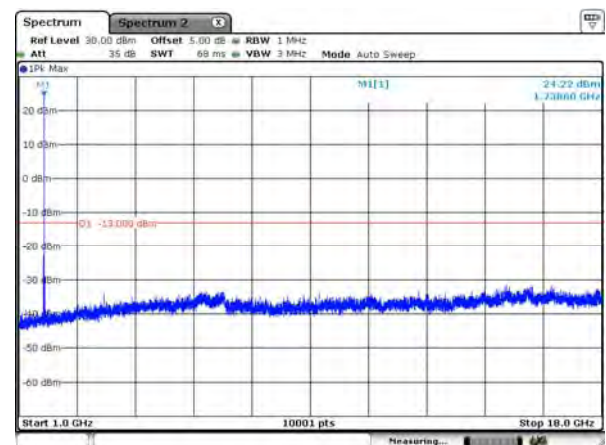
Date: 19 SEP 2018 02:00:58

Band 4_CH20175_15M_1RB0_QPSK_Below 1G



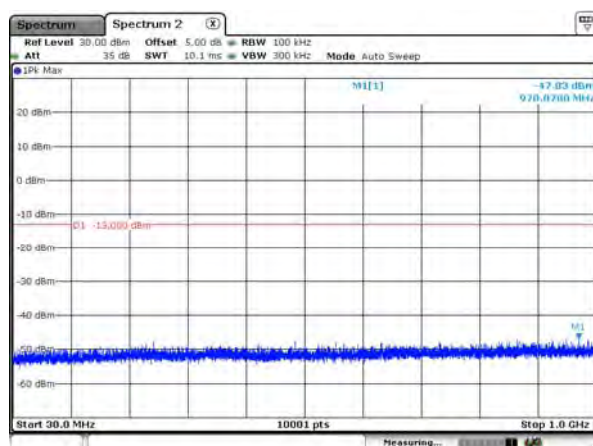
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Band 4_CH20175_15M_1RB0_QPSK_Above 1G



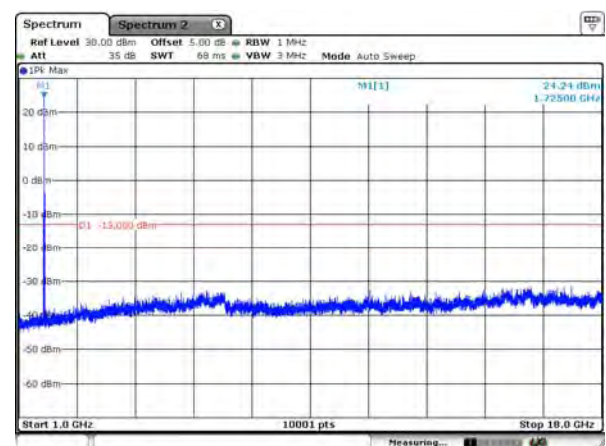
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Band 4_CH20175_20M_1RB0_QPSK_Below 1G



Date: 19 SEP 2018 02:20:59

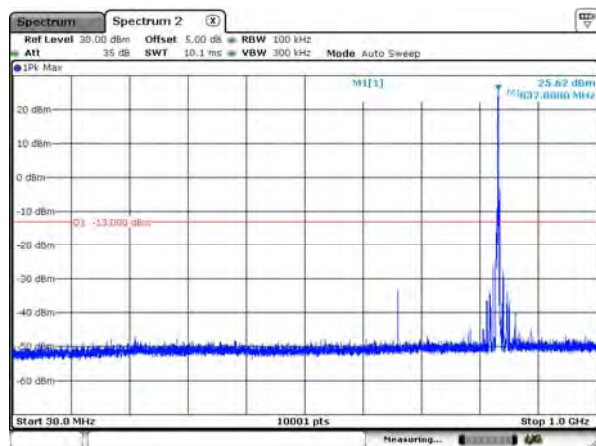
Band 4_CH20175_20M_1RB0_QPSK_Above 1G



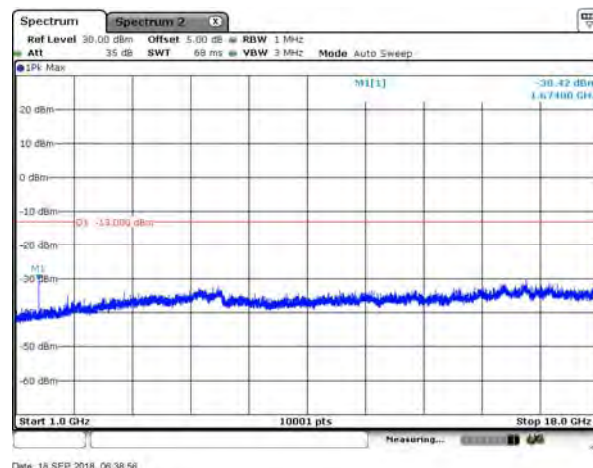
Date: 19 SEP 2018 02:21:12

Product	ME910C1-WW		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/09/18	Test Site	SR10-H

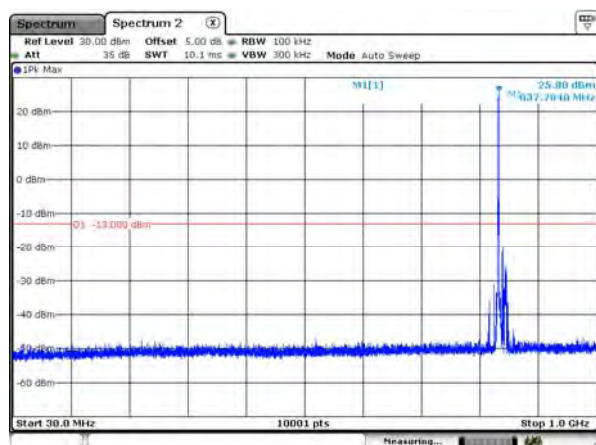
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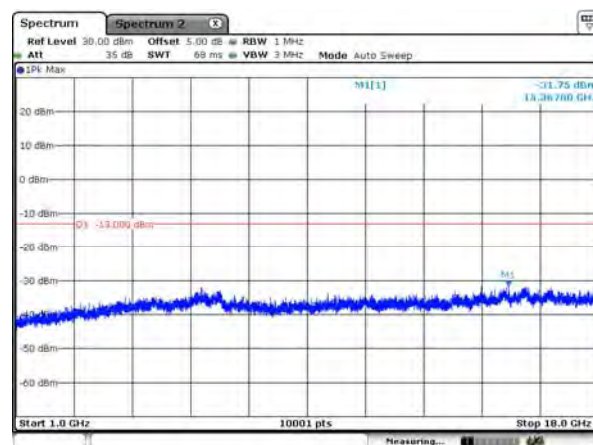
Band 5_CH20525_1.4M_1RB0_QPSK_Above 1G



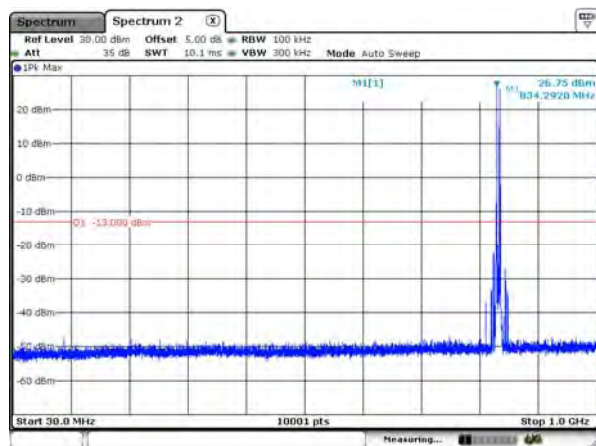
Band 5_CH20525_3M_1RB0_QPSK_Below 1G



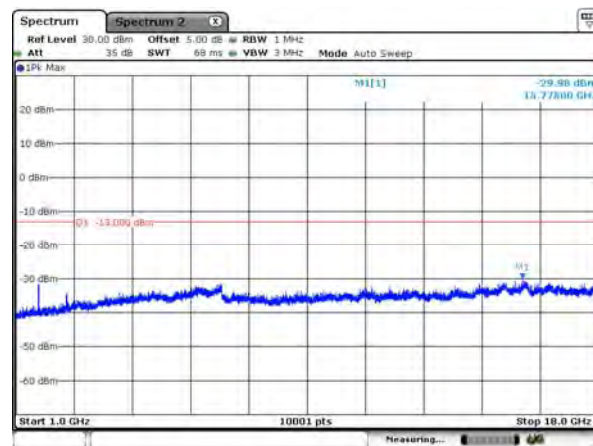
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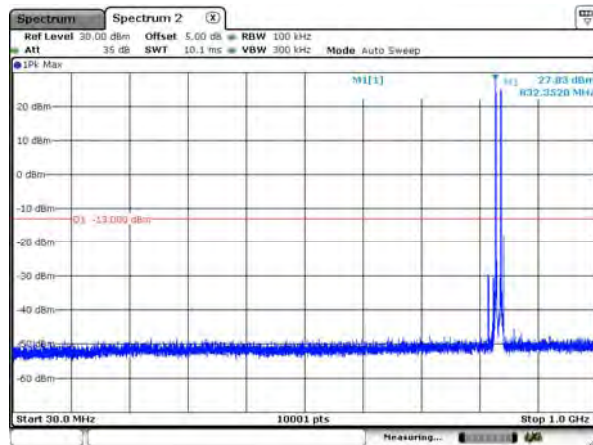
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Band 5_CH20525_5M_1RB0_QPSK_above 1G

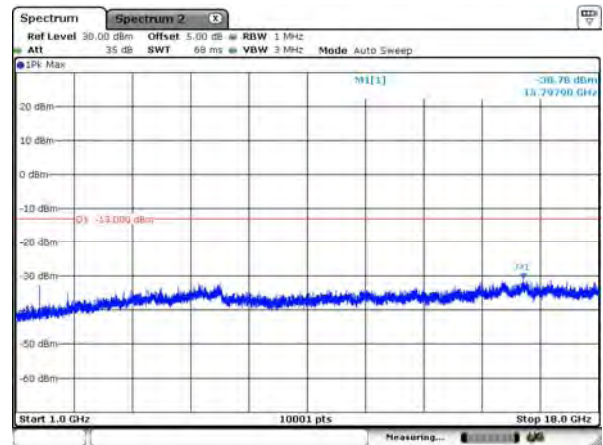


Band 5_CH20525_10M_1RB0_QPSK_Below 1G



Date: 18 SEP 2018 07:28:13

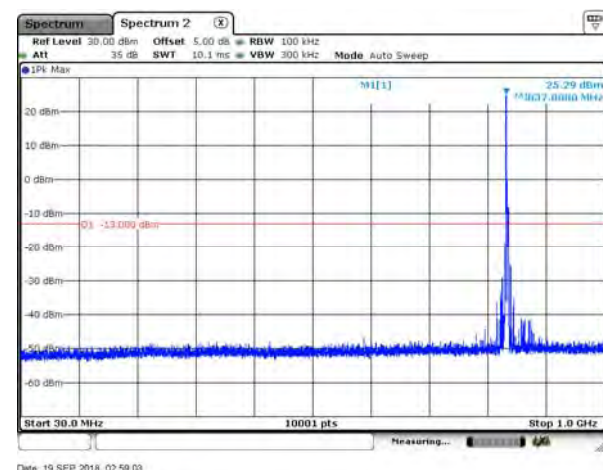
Band 5_CH20525_10M_1RB0_QPSK_above 1G



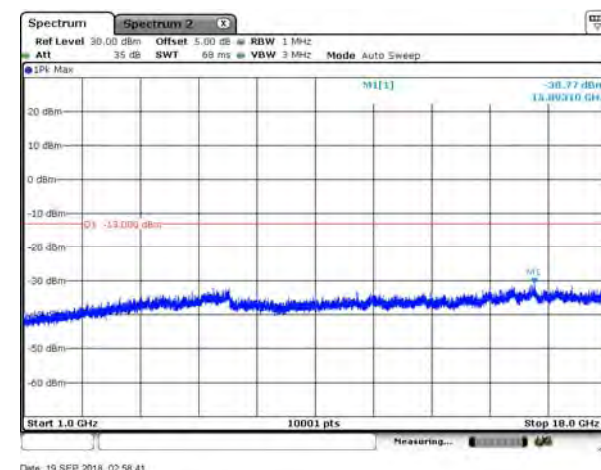
Date: 18 SEP 2018 07:28:47

Product	ME910C1-WW		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 4: LTE Band 26 (Part 22)		
Date of Test	2018/09/19	Test Site	SR10-H

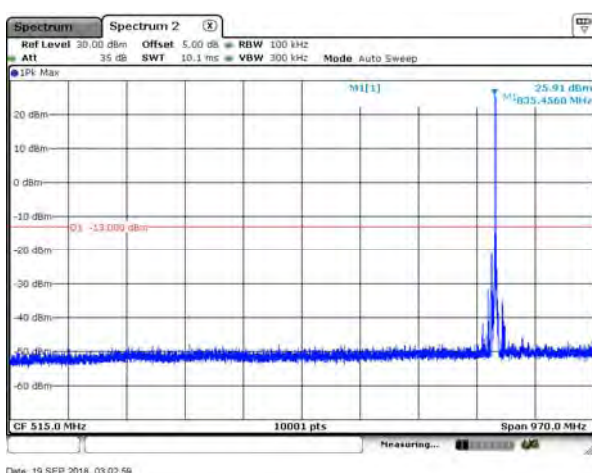
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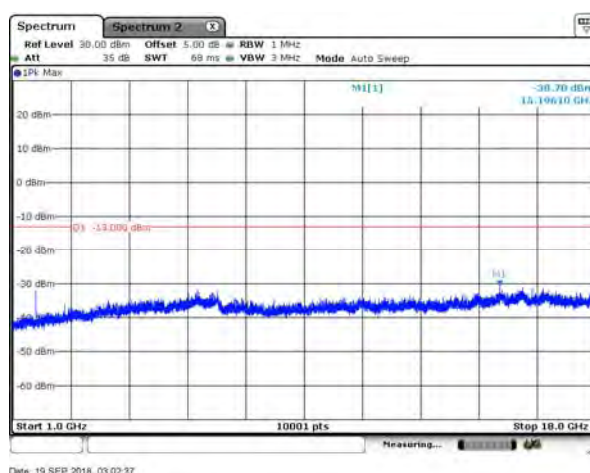
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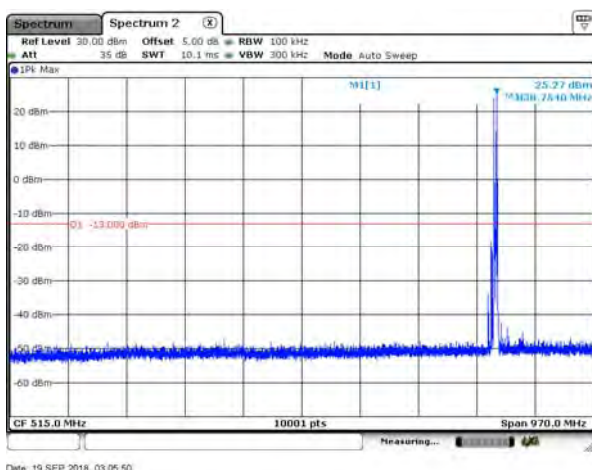
Band 26_CH26865_3M_1RB0_QPSK_Below 1G



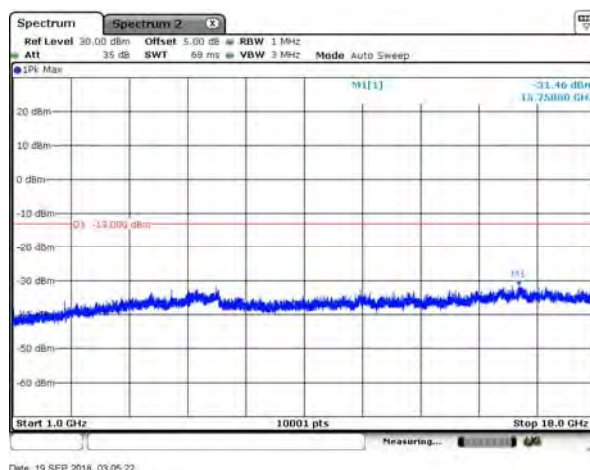
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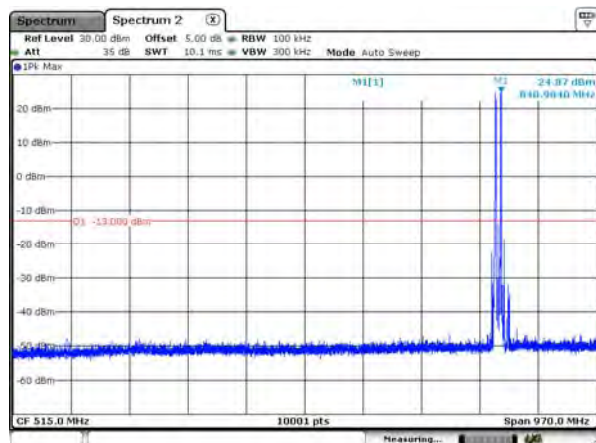
Band 26_CH26865_5M_1RB0_QPSK_Below 1G



Band 26_CH26865_5M_1RB0_QPSK_Above 1G

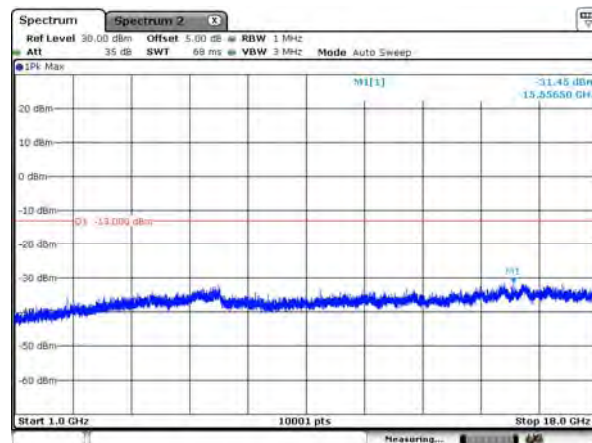


Band 26_CH26865_10M_1RB0_QPSK_Below 1G



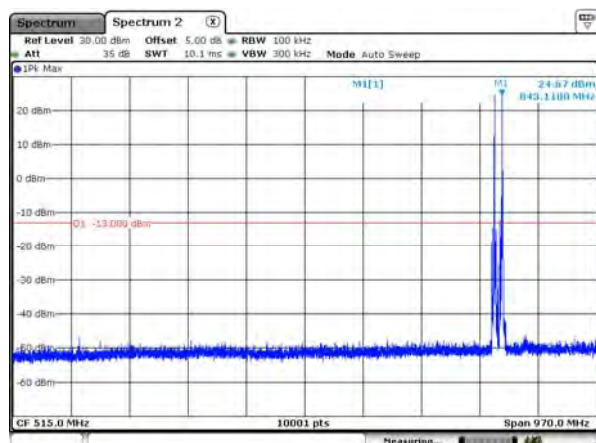
Date: 19 SEP 2018 03:08:44

Band 26_CH26865_10M_1RB0_QPSK_Above 1G



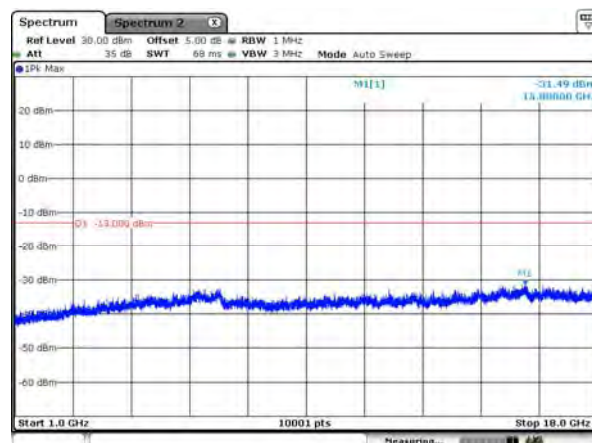
Date: 19 SEP 2018 03:08:21

Band 26_CH26865_15M_1RB0_QPSK_Below 1G



Date: 19 SEP 2018 03:11:31

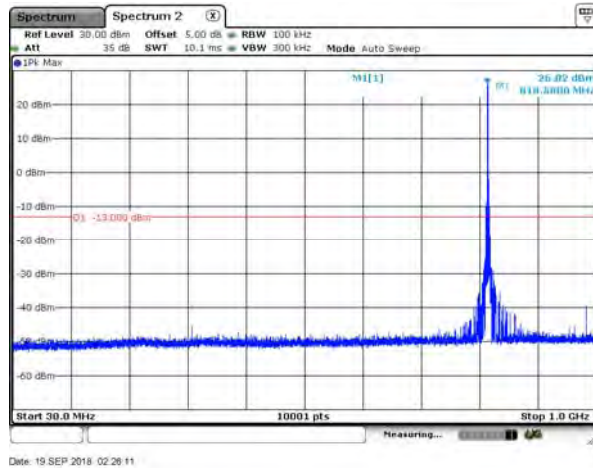
Band 26_CH26865_15M_1RB0_QPSK_Above 1G



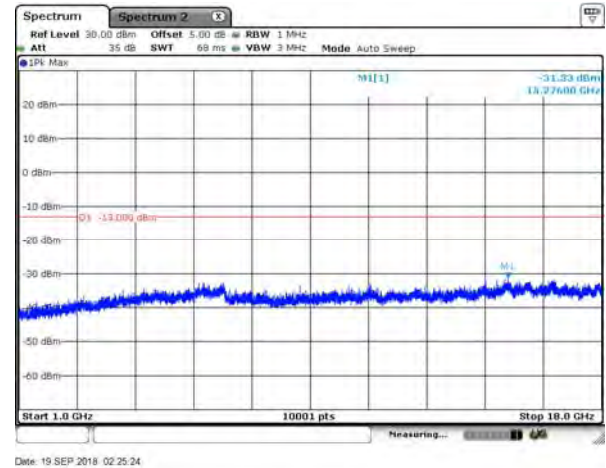
Date: 19 SEP 2018 03:11:13

Product	ME910C1-WW		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 4: LTE Band 26 (Part 90)		
Date of Test	2018/09/19	Test Site	SR10-H

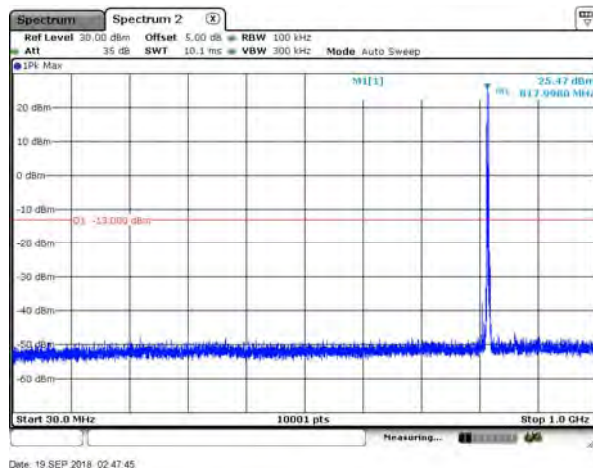
Band 26_CH26740_1.4M_1RB0_QPSK_Below 1G



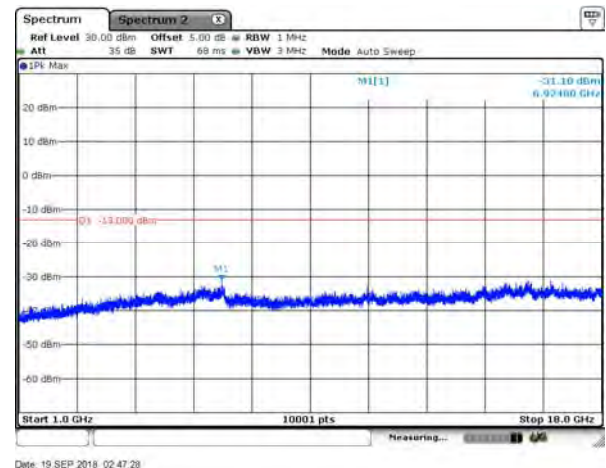
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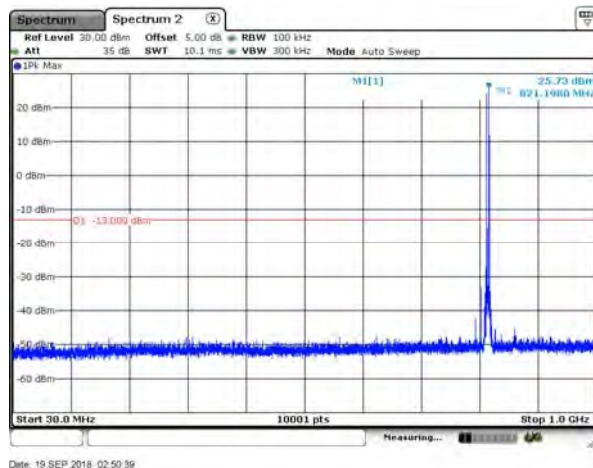
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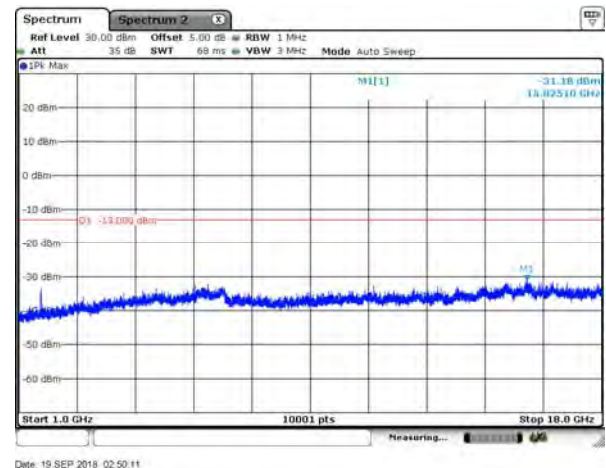
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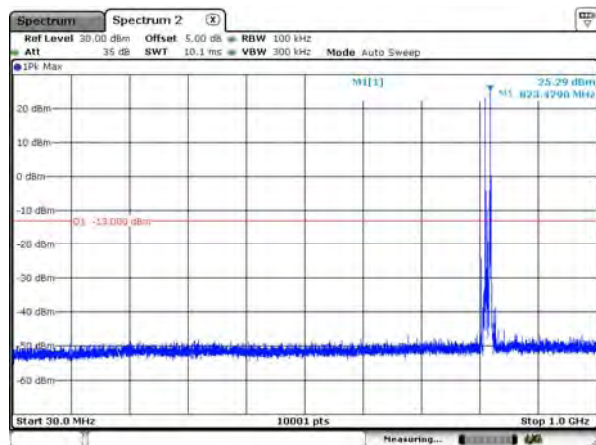
Band 26_CH26740_5M_1RB0_QPSK_Below 1G



Band 26_CH26740_5M_1RB0_QPSK_Above 1G

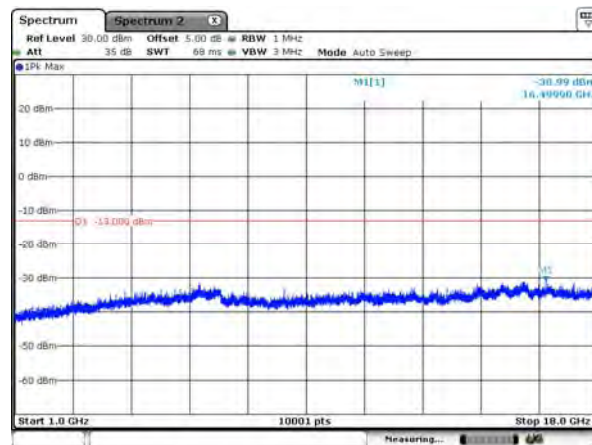


Band 26_CH26720_10M_1RB0_QPSK_Below 1G



Date: 19 SEP 2018 02:53:01

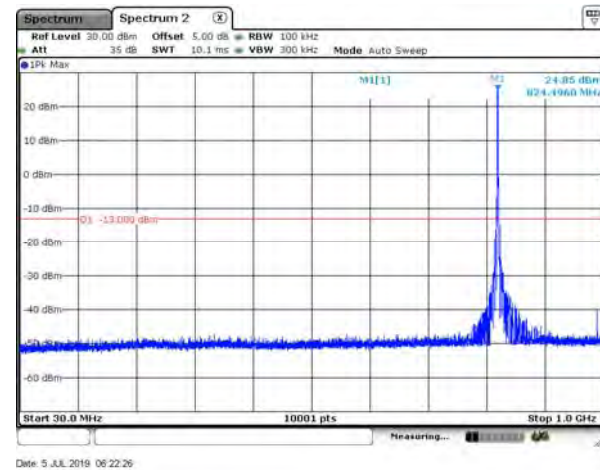
Band 26_CH26720_10M_1RB0_QPSK_Above 1G



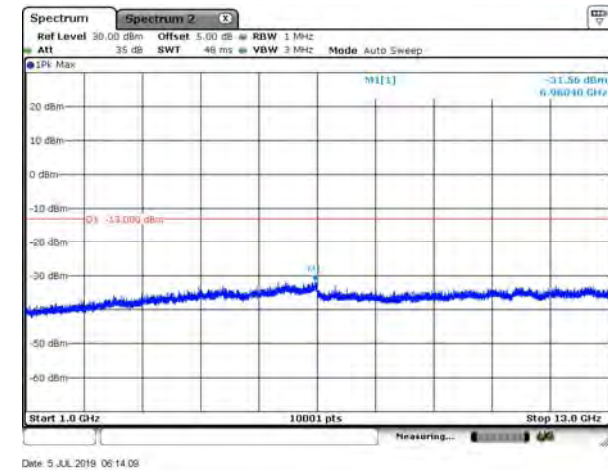
Date: 19 SEP 2018 02:52:12

Product	ME910C1-WW		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 4: LTE Band 26 (Part 90)		
Date of Test	2019/07/05	Test Site	SR10-H

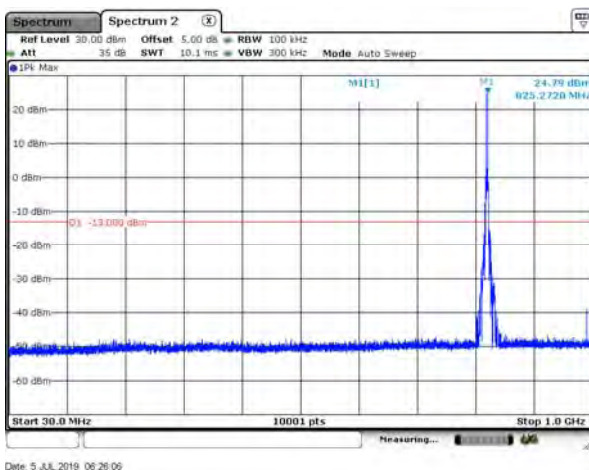
Band 26_CH26790_1.4M_1RB0_QPSK_Below 1G



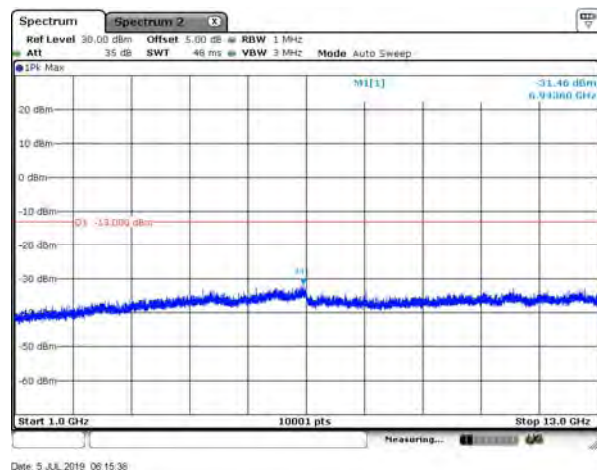
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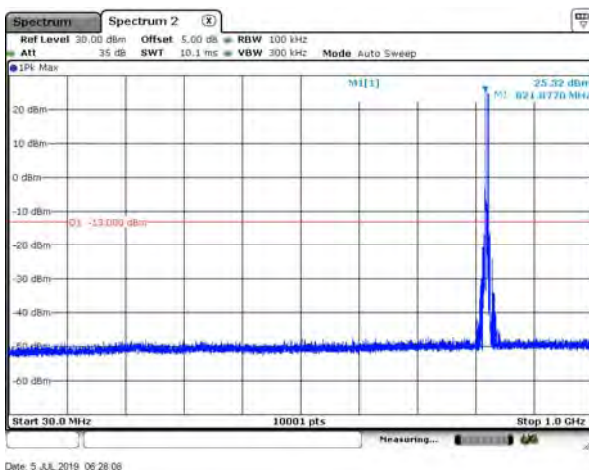
Band 26_CH26790_3M_1RB0_QPSK_Below 1G



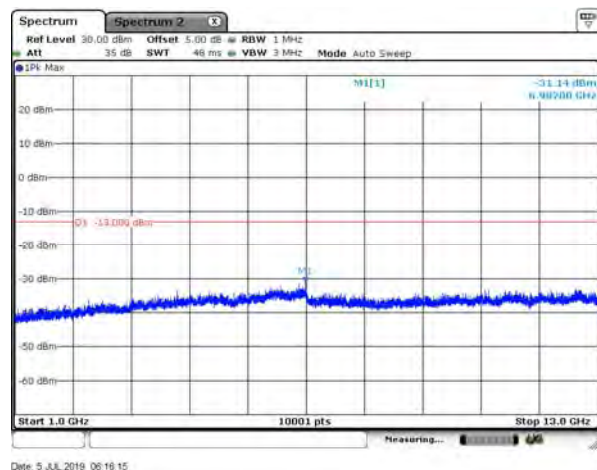
Band 26_CH26790_3M_1RB0_QPSK_Above 1G



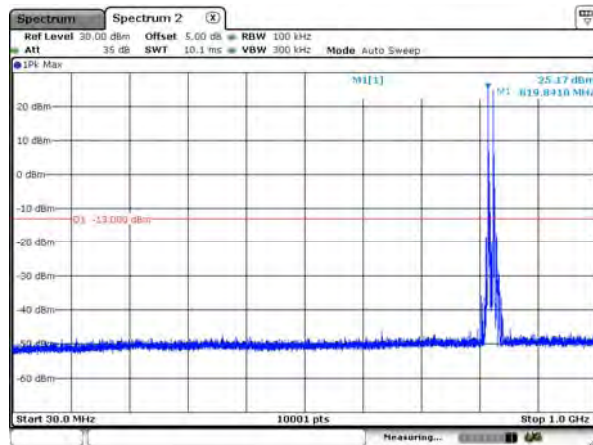
Band 26_CH26790_5M_1RB0_QPSK_Below 1G



Band 26_CH26790_5M_1RB0_QPSK_Above 1G

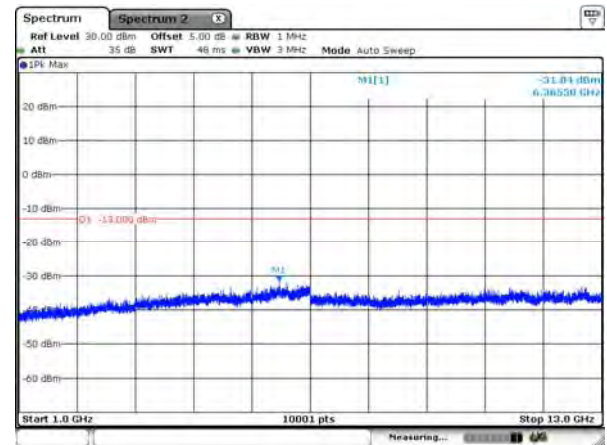


Band 26_CH26790_10M_1RB0_QPSK_Below 1G



Date: 5 JUL 2019 06:29:15

Band 26_CH26790_10M_1RB0_QPSK_Above 1G



Date: 5 JUL 2019 06:16:38

Product	ME910C1-WW		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2018/09/12	Test Site	CB4-H

Cat M1_Band 2_QPSK_1.4M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 18900 (1880MHz)								
3760.00	-66.150	H	-66.127	4.335	11.832	-58.630	-13	-45.630
5640.00	-54.240	H	-52.175	5.235	12.900	-44.510	-13	-31.510
3760.00	-66.370	V	-65.557	4.335	11.832	-58.060	-13	-45.060
5640.00	-51.660	V	-49.745	5.235	12.900	-42.080	-13	-29.080

Cat M1_Band 2_QPSK_3M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 18900 (1880MHz)								
3760.00	-66.210	H	-66.187	4.335	11.832	-58.690	-13	-45.690
5640.00	-53.000	H	-50.935	5.235	12.900	-43.270	-13	-30.270
3760.00	-66.210	V	-65.397	4.335	11.832	-57.900	-13	-44.900
5640.00	-53.010	V	-51.095	5.235	12.900	-43.430	-13	-30.430

Cat M1_Band 2_QPSK_5M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 18900 (1880MHz)								
3760.00	-65.310	H	-65.287	4.335	11.832	-57.790	-13	-44.790
5640.00	-54.940	H	-52.875	5.235	12.900	-45.210	-13	-32.210
3760.00	-64.020	V	-63.207	4.335	11.832	-55.710	-13	-42.710
5640.00	-53.110	V	-51.195	5.235	12.900	-43.530	-13	-30.530

Cat M1_Band 2_QPSK_10M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 18900 (1880MHz)								
3760.00	-66.150	H	-66.127	4.335	11.832	-58.630	-13	-45.630
5640.00	-56.150	H	-54.085	5.235	12.900	-46.420	-13	-33.420
3760.00	-66.290	V	-65.477	4.335	11.832	-57.980	-13	-44.980
5640.00	-53.140	V	-51.225	5.235	12.900	-43.560	-13	-30.560

Cat M1_Band 2_QPSK_15M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 18900 (1880MHz)								
3760.00	-64.650	H	-64.627	4.335	11.832	-57.130	-13	-44.130
5640.00	-59.060	H	-56.995	5.235	12.900	-49.330	-13	-36.330
3760.00	-65.730	V	-64.917	4.335	11.832	-57.420	-13	-44.420
5640.00	-54.960	V	-53.045	5.235	12.900	-45.380	-13	-32.380

Cat M1_Band 2_QPSK_20M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 18900 (1880MHz)								
3720.00	-66.160	H	-66.314	4.300	11.904	-58.710	-13	-45.710
5580.00	-64.630	H	-62.818	5.212	12.900	-55.130	-13	-42.130
3720.00	-65.410	V	-64.764	4.300	11.904	-57.160	-13	-44.160
5580.00	-54.570	V	-52.908	5.212	12.900	-45.220	-13	-32.220

Product	ME910C1-WW		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/09/14	Test Site	CB4-H

Cat M1_Band 4_QPSK_1.4M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20175 (1732.5MHz)								
3465.00	-61.500	H	-58.889	4.090	12.209	-50.770	-13	-37.770
5197.50	-67.430	H	-60.342	5.094	12.356	-53.080	-13	-40.080
3465.00	-60.780	V	-58.399	4.090	12.209	-50.280	-13	-37.280
5197.50	-60.380	V	-53.842	5.094	12.356	-46.580	-13	-33.580

Cat M1_Band 4_QPSK_3M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20175 (1732.5MHz)								
3465.00	-62.890	H	-60.279	4.090	12.209	-52.160	-13	-39.160
5197.50	-64.900	H	-57.812	5.094	12.356	-50.550	-13	-37.550
3465.00	-62.220	V	-59.839	4.090	12.209	-51.720	-13	-38.720
5197.50	-65.310	V	-58.772	5.094	12.356	-51.510	-13	-38.510

Cat M1_Band 4_QPSK_5M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20175 (1732.5MHz)								
3465.00	-64.420	H	-61.809	4.090	12.209	-53.690	-13	-40.690
5197.50	-65.820	H	-58.732	5.094	12.356	-51.470	-13	-38.470
3465.00	-60.330	V	-57.949	4.090	12.209	-49.830	-13	-36.830
5197.50	-58.980	V	-52.442	5.094	12.356	-45.180	-13	-32.180

Cat M1_Band 4_QPSK_10M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20175 (1732.5MHz)								
3465.00	-61.770	H	-59.159	4.090	12.209	-51.040	-13	-38.040
5197.50	-65.020	H	-57.932	5.094	12.356	-50.670	-13	-37.670
3465.00	-60.720	V	-58.339	4.090	12.209	-50.220	-13	-37.220
5197.50	-61.630	V	-55.092	5.094	12.356	-47.830	-13	-34.830

Cat M1_Band 4_QPSK_15M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20175 (1732.5MHz)								
3465.00	-62.270	H	-59.659	4.090	12.209	-51.540	-13	-38.540
5197.50	-65.100	H	-58.012	5.094	12.356	-50.750	-13	-37.750
3465.00	-60.720	V	-58.339	4.090	12.209	-50.220	-13	-37.220
5197.50	-61.390	V	-54.852	5.094	12.356	-47.590	-13	-34.590

Cat M1_Band 4_QPSK_20M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20175 (1732.5MHz)								
3465.00	-62.770	H	-60.159	4.090	12.209	-52.040	-13	-39.040
5197.50	-64.810	H	-57.722	5.094	12.356	-50.460	-13	-37.460
3465.00	-61.660	V	-59.279	4.090	12.209	-51.160	-13	-38.160
5197.50	-59.640	V	-53.102	5.094	12.356	-45.840	-13	-32.840

Product	ME910C1-WW		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/09/15	Test Site	CB4-H

Cat M1_Band 5_QPSK_1.4M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20525 (836.5MHz)								
1673.00	-56.170	H	-56.547	2.812	8.819	-50.540	-13	-37.540
2509.50	-68.750	H	-68.615	3.463	10.608	-61.470	-13	-48.470
1673.00	-52.400	V	-52.757	2.812	8.819	-46.750	-13	-33.750
2509.50	-68.670	V	-68.635	3.463	10.608	-61.490	-13	-48.490

Cat M1_Band 5_QPSK_3M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20525 (836.5MHz)								
1673.00	-54.990	H	-55.367	2.812	8.819	-49.360	-13	-36.360
2509.50	-68.620	H	-68.485	3.463	10.608	-61.340	-13	-48.340
1673.00	-51.320	V	-51.677	2.812	8.819	-45.670	-13	-32.670
2509.50	-68.210	V	-68.175	3.463	10.608	-61.030	-13	-48.030

Cat M1_Band 5_QPSK_5M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20525 (836.5MHz)								
1673.00	-55.200	H	-55.577	2.812	8.819	-49.570	-13	-36.570
2509.50	-68.770	H	-68.635	3.463	10.608	-61.490	-13	-48.490
1673.00	-51.510	V	-51.867	2.812	8.819	-45.860	-13	-32.860
2509.50	-68.910	V	-68.875	3.463	10.608	-61.730	-13	-48.730

Cat M1_Band 5_QPSK_10M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20525 (836.5MHz)								
1673.00	-55.390	H	-55.767	2.812	8.819	-49.760	-13	-36.760
2509.50	-68.520	H	-68.385	3.463	10.608	-61.240	-13	-48.240
1673.00	-51.200	V	-51.557	2.812	8.819	-45.550	-13	-32.550
2509.50	-67.890	V	-67.855	3.463	10.608	-60.710	-13	-47.710

Product	ME910C1-WW						
Test Item	Radiated Spurious Emissions						
Test Mode	Mode 4: LTE Band 26 (Part 22)						
Date of Test	2018/09/18				Test Site	CB4-H	

Cat M1_Band 26_QPSK_1.4M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26915 (836.5MHz)								
1673.00	-54.490	H	-54.867	2.812	8.819	-48.860	-13	-35.860
2509.50	-69.240	H	-69.105	3.463	10.608	-61.960	-13	-48.960
1673.00	-51.150	V	-51.507	2.812	8.819	-45.500	-13	-32.500
2509.50	-68.000	V	-67.965	3.463	10.608	-60.820	-13	-47.820

Cat M1_Band 26_QPSK_3M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26915 (836.5MHz)								
1673.00	-54.200	H	-54.577	2.812	8.819	-48.570	-13	-35.570
2509.50	-68.740	H	-68.605	3.463	10.608	-61.460	-13	-48.460
1673.00	-51.540	V	-51.897	2.812	8.819	-45.890	-13	-32.890
2509.50	-67.620	V	-67.585	3.463	10.608	-60.440	-13	-47.440

Cat M1_Band 26_QPSK_5M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26915 (836.5MHz)								
1673.00	-54.350	H	-54.727	2.812	8.819	-48.720	-13	-35.720
2509.50	-69.020	H	-68.885	3.463	10.608	-61.740	-13	-48.740
1673.00	-51.700	V	-52.057	2.812	8.819	-46.050	-13	-33.050
2509.50	-69.040	V	-69.005	3.463	10.608	-61.860	-13	-48.860

Cat M1_Band 26_QPSK_10M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26915 (836.5MHz)								
1673.00	-54.350	H	-54.727	2.812	8.819	-48.720	-13	-35.720
2509.50	-68.770	H	-68.635	3.463	10.608	-61.490	-13	-48.490
1673.00	-51.390	V	-51.747	2.812	8.819	-45.740	-13	-32.740
2509.50	-67.560	V	-67.525	3.463	10.608	-60.380	-13	-47.380

Cat M1_Band 26_QPSK_15M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26915 (836.5MHz)								
1673.00	-54.980	H	-55.357	2.812	8.819	-49.350	-13	-36.350
2509.50	-68.800	H	-68.665	3.463	10.608	-61.520	-13	-48.520
1673.00	-51.570	V	-51.927	2.812	8.819	-45.920	-13	-32.920
2509.50	-67.610	V	-67.575	3.463	10.608	-60.430	-13	-47.430

Product	ME910C1-WW		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 4: LTE Band 26 (Part 90)		
Date of Test	2018/09/15	Test Site	CB4-H

Cat M1_Band 26_QPSK_1.4M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26740 (819MHz)								
1638.00	-55.880	H	-56.223	2.781	8.714	-50.290	-13	-37.290
2457.00	-68.590	H	-68.555	3.426	10.531	-61.450	-13	-48.450
1638.00	-55.210	V	-55.533	2.781	8.714	-49.600	-13	-36.600
2457.00	-68.700	V	-68.755	3.426	10.531	-61.650	-13	-48.650

Cat M1_Band 26_QPSK_3M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26740 (819MHz)								
1638.00	-54.750	H	-55.093	2.781	8.714	-49.160	-13	-36.160
2457.00	-67.650	H	-67.615	3.426	10.531	-60.510	-13	-47.510
1638.00	-51.530	V	-51.853	2.781	8.714	-45.920	-13	-32.920
2457.00	-67.530	V	-67.585	3.426	10.531	-60.480	-13	-47.480

Cat M1_Band 26_QPSK_5M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26740 (819MHz)								
1638.00	-54.340	H	-54.683	2.781	8.714	-48.750	-13	-35.750
2457.00	-68.490	H	-68.455	3.426	10.531	-61.350	-13	-48.350
1638.00	-51.380	V	-51.703	2.781	8.714	-45.770	-13	-32.770
2457.00	-67.180	V	-67.235	3.426	10.531	-60.130	-13	-47.130

Cat M1_Band 26_QPSK_10M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26720 (819MHz)								
1638.00	-54.860	H	-55.203	2.781	8.714	-49.270	-13	-36.270
2457.00	-69.170	H	-69.135	3.426	10.531	-62.030	-13	-49.030
1638.00	-51.250	V	-51.573	2.781	8.714	-45.640	-13	-32.640
2457.00	-67.900	V	-67.955	3.426	10.531	-60.850	-13	-47.850