

Ericsson AB

RF TEST REPORT

Report Type:

RF report

PRODUCT NAME:

Radio 4480 44B2/B25 44B66A C

REPORT NUMBER:

2411B1713SHA-001

ISSUE DATE:

December 17, 2024

DOCUMENT CONTROL NUMBER:

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TEST REPORT

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Report no.: 2411B1713SHA-001

Applicant: Ericsson AB
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Manufacturer: Ericsson AB
Isafjordsgatan 10 SE-164 80 Stockholm 16480 Sweden

FCC ID: TA8AKRC161844

IC: 287AB-AS161844

SUMMARY:

The equipment is tested according to the following standard(s) or Specification:

FCC CFR 47 Part 27 (2023): MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

ISED RSS-139 Issue 4: Advanced Wireless Services Equipment Operating in the Bands 1710-1780 MHz and 2110-2200 MHz

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TEST REPORT

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Revision History

Report No.	Version	Description	Issued Date
2411B1713SHA-001	Rev. 01	Initial issue of report	December 17, 2024

Measurement result summary

TEST ITEM	FCC REFERENCE	IC REFERENCE	RESULT
Max Output Power and Peak to Average Power Ratio and EIRP	27.50(d)	RSS-139 5.5	Pass
Occupied Bandwidth	27.53(h) 2.1049	RSS-GEN 6.7	Pass
Unwanted Emissions at Band Edge	27.53(h)	RSS-139 5.6	Pass
Conducted Unwanted Emission	27.53(h)	RSS-139 5.6	Pass
Radiated Unwanted Emission	27.53(h)	RSS-139 5.6	Pass
Frequency Stability	27.54	RSS-139 5.4	Pass

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Description:	Remote Radio Unit
Product name:	Radio 4480 44B2/B25 44B66A C
Product number:	KRC 161 844/1, KRC 161 844/3
HVIN	AS161844
Serial Number(s)	E23F532271
Rating:	-48VDC
Software Version:	CXP9017316_7-R99KH
Hardware Version:	R3A
Sample received date:	October 15, 2024
Date of test:	October 15, 2024 ~ December 16, 2024

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1.2 Technical Specification

Frequency Range:	B2 TX: 1930 – 1990 MHz; B2 RX: 1850 – 1910 MHz B25 TX: 1930–1995 MHz; B25 RX: 1850–1915 MHz B66A TX: 2110–2180 MHz (2110-2155MHz for WCDMA) B66A RX: 1710–1780 MHz (1710-1755MHz for WCDMA)
Number of Antenna ports:	4 TX/RX
Supported RAT:	B2: GSM, WCDMA, NR, LTE, NB-IoT SA/GB/IB B25: WCDMA, NR, LTE, NB-IoT SA/GB/IB B66A: WCDMA, NR, LTE, NB-IoT SA/GB/IB
Max RF bandwidth (IBW):	B2: 60MHz, B25: 65MHz, B66A: 70MHz
Supported Number of Carriers:	WCDMA/LTE/NR: Max 6 carriers per port GSM: Max 4 carriers per port NB IoT SA: Max 2 carriers per port MRO: Max 12 carriers per port
Supported modulation:	LTE/NR: QPSK, 16QAM, 64QAM, 256QAM WCDMA: QPSK, 16QAM, 64QAM GSM: GMSK, 8-PSK, AQPSK NB-IoT: QPSK
Supported Channel Bandwidth:	LTE: 1.3, 4, 5, 10, 15, 20MHz NR: 5, 10, 15, 20, 25, 30, 35, 40 MHz WCDMA: 5MHz GSM: 200kHz NB-IoT: 200kHz
Declaration output power per port:	LTE 1.4 and 3MHz: 20W LTE 5MHz: 40W LTE 10,15 and 20MHz: 60W NR 5MHz: 40W NR 10,15,20,25,30,35 and 40MHz: 60W WCDMA: 40W GSM: 20W NB-IoT SA: 20W 60W per band, Total 80W (without FAN), 100W (with FAN)
Antenna gain:	maximum directional gain 13.50dBi

Note: Information in the 1.2 sheet declared by the manufacturer and Intertek has no responsibility of its accuracy.

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1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address 1:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Address 2:	F9&F8&F7, Tianfu Software Park E7 Tower, No. 1366 Tianfu Avenue Middle, Hightech Zone, Chengdu City, Sichuan Province, People's Republic of China
Telephone:	+86 21 61278200
Telefax:	+86 21 54262353
The test facility is recognized, certified, or accredited by these organizations:	FCC Registration Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	A2LA Accreditation Lab Certificate Number: 3309.02

Name:	Chongqing Academy of Information and Communications Technology
Address:	Guoxin 3rd Street, Shuangliu District, Chengdu City, Sichuan Province China
Telephone:	+86 23 88069965
The test facility is recognized, certified, or accredited by these organizations:	A2LA Accreditation Lab Certificate Number: 4897.01

2 TEST SPECIFICATIONS

2.1 Related documents

FCC Part 27 (2023)
FCC Part 2 (2023)
ISED RSS-139 issue 4 September 29, 2022
ISED RSS-Gen issue 5 March 2019 Amendment 1
ANSI C63.26:2015
KDB 971168 D01 v03r01

2.2 Product Information

The Equipment Under Test (EUT) is an Ericsson Radio Unit working in the wireless communications services 2100MHz band which provides communication connections to network in WCDMA/LTE/NB IoT/NR modes and MSR modes. Radio 4480 44B2/B25 44B66A C operates from a -48VDC.

The EUT includes 4 TX/RX ports and it can be configured to transmit in MIMO mode, and MIMO mode was used for measurements as the worst configuration. The complete testing was performed with the EUT transmitting at maximum RF power unless otherwise stated.

A full technical description can be found in the Manufacturer's documentation.

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2.3 Configuration Description

The following settings were used to represent all traffic scenarios. The output power was measured on the bottom, middle and top channel of all applicable antenna ports. By measuring the output power of QPSK, 16QAM, 64QAM, 256QAM on one of the antenna ports, it was determined that QPSK for NR and 64QAM for LTE/W was the worst-case modulation schemes as data listed below and were used for all testing.

4TX/RX mode	Port	QPSK	16QAM	64QAM	256QAM
LTE-1C 20M Middle	Port C	47.81 dBm	47.59 dBm	47.86 dBm	47.65 dBm
NR-1C 40M Middle	Port C	47.39 dBm	47.20 dBm	46.99 dBm	47.21 dBm
W-1C 5M Middle	Port C	46.22 dBm	45.92 dBm	46.31 dBm	-

Complete testing was carried out on the worst-case antenna port which was established as being the highest output power from the 4 measured ports on worst case modulation scheme as data listed below. This antenna port was Port C for all modes.

4TX/RX mode	modulation	Port A	Port B	Port C	Port D
LTE-1C 20M Middle	64QAM	47.61 dBm	47.83 dBm	47.86 dBm	47.73 dBm
NR-1C 40M Middle	QPSK	47.18 dBm	47.18 dBm	47.39 dBm	47.33 dBm
W-1C 5M Middle	64QAM	46.18 dBm	46.12 dBm	46.31 dBm	46.17 dBm

The settings below were used for all measurements unless otherwise noted:

LTE

Configuration	No. of Carriers	L Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
LTE-1C	1LTE	5	2112.5	2145	2177.5
		10	2115	2145	2175
		15	2117.5	2145	2172.5
		20	2120	2145	2170
LTE-6C	6LTE	10	-	2120+2130+2140 +2150+2160+2170	-
LTE-CA	2LTE	20	-	2135+2155	-

NR

Configuration	No. of Carriers	NR Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NR-1C	1NR	5	2112.5	2145	2177.5
		10	2115	2145	2175
		15	2117.5	2145	2172.5
		20	2120	2145	2170
		25	2145	2167.5	2122.5
		30	2145	2165	2125
		35	2145	2162.5	2127.5
		40	2145	2160	2130
NR-6C	6NR	10	-	2120+2130+2140 +2150+2160+2170	-
NR-CA	2NR	20	-	2135+2155	-

W

Configuration	No. of Carriers	W Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
W-1C	1W	5	2112.4	2132.6	2152.6
W-6C	6W	5	-	2120+2125+2130 +2135+2140+2145	-

NB-IoT (L)

Configuration	NB Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)			LTE Carrier Bandwidth (MHz)
		Bottom	Middle	Top	
SA+L	SA	2110.2+2135	2145+2130	2178.8+2165	10
IB+L	IB	2115	2145	2175	10
2GB+L	GB	2115	-	2175	10
		2117.5	-	2172.5	15
		2120	-	2170	20

W+SA+L

Configuration	W Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)			LTE Carrier Bandwidth (MHz)
		Bottom	Middle	Top	
W+SA+L	5	2112.4+2116+2177.5	-	2112.4+2174+2177.5	5

2NR+2L+2SA

Configuration	NR Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)			LTE Carrier Bandwidth (MHz)
		Bottom	Middle	Top	
2NR+2L+2SA	5	-	2112.5+2177.5+2133.2+2145+2140+2151.8	-	5

2NR+2W+2L

Configuration	NR Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)			LTE Carrier Bandwidth (MHz)
		Bottom	Middle	Top	
2NR+2W+2L	5	-	2112.5+2177.5+2120+2150+2132.5+2165	-	5

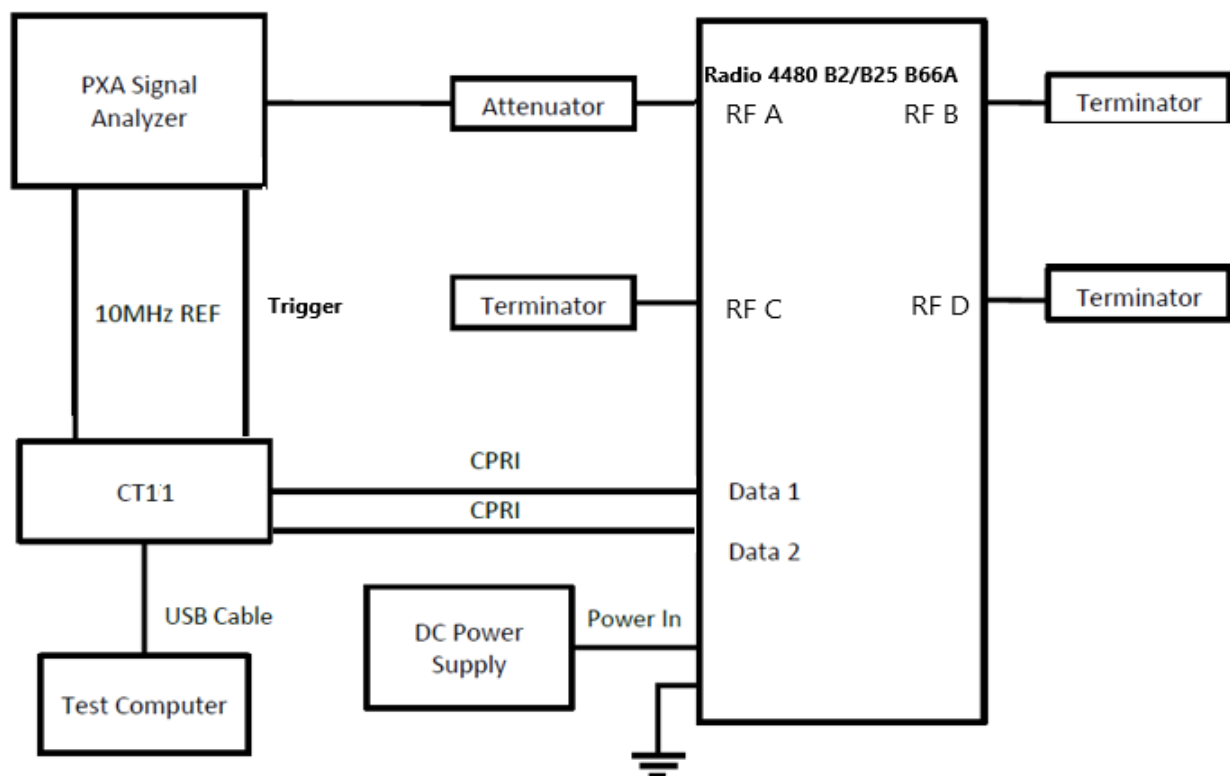
TEST REPORT

2.4 Test Setup

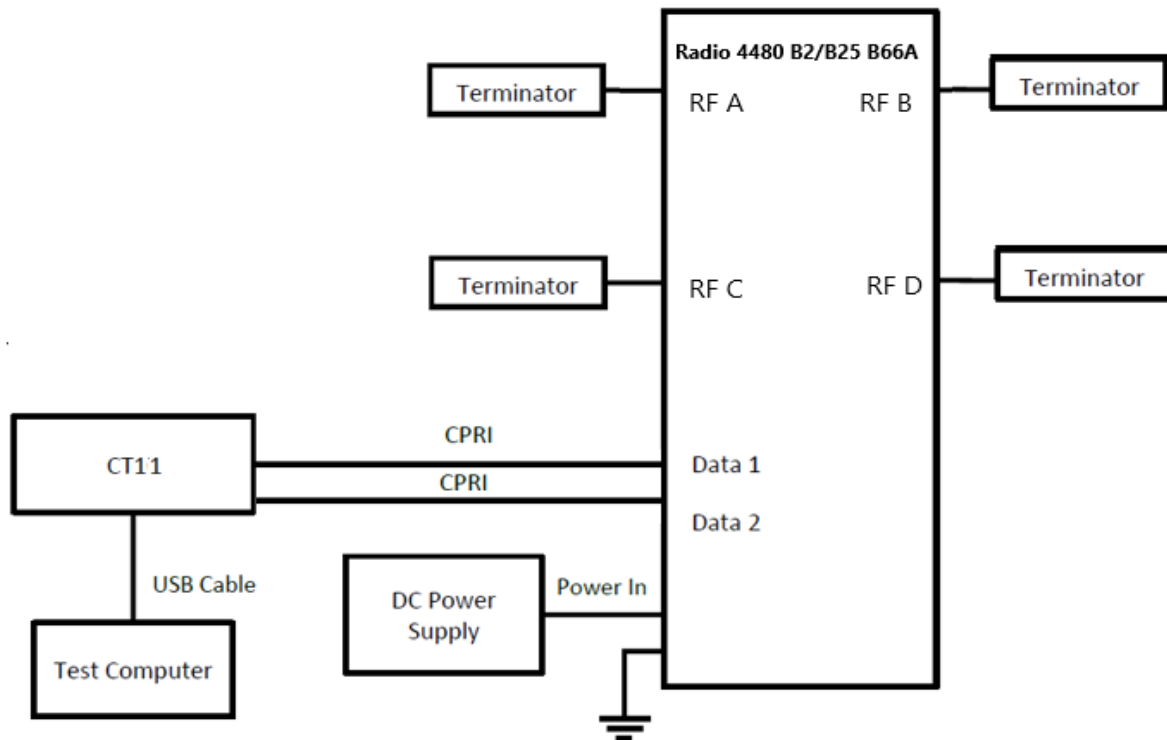
Proper Attenuator/Filter/Diplexer will be chosen to use in relative test case. And the cable loss of specified Attenuator/Filter/Diplexer with connect cable will be calibrated before test for relative frequency range and the worst reading will be used as offset in the relative test case.

For single L/W/NR, EUT transmission 100% as 5.2.4.4.1 in ANSI C63.26 applied and for other RAT like NB/MIX, 5.2.4.4.3 in ANSI C63.26 applied (symbol period about dozens of us / transmission duration about 10ms).

Conducted Measurement:



Radiated Measurement:



No.	Auxiliary Equipment	Product Number / Model Type	Version
1	SFP	RDH 102 65/25	R1A
2	Test computer	HP EliteBook 8470	-
3	CT11	LPC102494/1	R2A
4	DC Power Supply	US21E7359S	-

2.5 Test environment condition:

Test items	Temperature	Humidity
Max Output Power and Peak to Average Power Ratio and EIRP	23°C	54% RH
Occupied Bandwidth		
Unwanted Emissions at Band Edge		
Conducted Unwanted Emission		
Radiated Unwanted Emission		
Frequency Stability	Please refer to clause 7	

2.6 Instrument list

Used	Equipment	Manufacturer	Type	S/N	Due date
☒	Signal Analyzer	Rohde & Schwarz	FSVA3044	101087	2025-07-09
☒	Signal Analyzer	Keysight	N9030B	MY57140894	2025-07-09
☒	Climatic Chamber	Chongqing Yinhe	SDJ61F	201700268	2024-12-09
☒	Hygrometer	TESTO	608-H1	1745127471	2024-12-09
☒	Hygrometer	TESTO	608-H1	1745127476	2024-12-09
☒	NWA	Rohde & Schwarz	ZVL6	101518	2025-07-09
☒	NWA	Keysight	N5230A	MY46400786	2025-07-09
☒	NWA	Keysight	N5071C	MY46630949	2025-07-09
☒	DC Power Supply	Keysight	N8737A	US21E7359S	2025-07-09
☒	40dB Attenuator	SHX	WDTS300-40Db-6G-NFF	20111834	NA
☒	40dB Attenuator	API Weinschel	47-40-43	CG7312	NA
☒	10dB Attenuator	SHX	DTS50GH-A-10-18-NMF	220221267	NA
☒	10dB Attenuator	SHX	2.92TS100-10-26.5-A	220323415	NA
☒	26G HPF	Hanrui	W-FLTF-026-18000-26500	WFLTF02622230002	NA
☒	Diplexer	Hanrui	2110-2200MHz Diplexer	MDUPF1192127002	NA
☒	300W Load	SHX	WTF300-6-NF	21030208	NA
☒	300W Load	SHX	WTF300-6-NF	21030209	NA
☒	300W Load	SHX	WTF300-6-NF	21030212	NA
☒	RF Cable	GORE	HP18-77NMNM-0600	SN16609617	NA
☒	RF Cable	HUBER SUHNER	SUCOFLEX 126EA	802023/126EA	NA
☒	RF Cable	Micable	MTE26-011-071-1M	23040066	NA
☒	RF Cable	Micable	MTE26-011-071-1M	23040067	NA

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Used	Equipment	Manufacturer	Type	S/N	Due date
☒	Ultra-wideband log-periodic antenna	Schwarzbeck	VULB9163	1507	2/14/2025
☒	EMI receiver	R&S	ESW26	103063	3/27/2025
☒	horn antenna	Schwarzbeck	9120D	2686	2/27/2025
☒	Preset amplifier	R&S	SCU08F1	101130	5/14/2025
☒	Preset amplifier	R&S	SCU18F	100946	5/14/2025
☒	horn antenna	Steatite	QMS-00880	27645	3/3/2025
☒	Preset amplifier	R&S	SCU40F1	100623	11/24/2024

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2.7 Measurement uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Measurement uncertainty
Maximum output power	0.73dB
Occupied Bandwidth	0.88%
Unwanted Emissions at Band Edge	3.03dB
Conducted Unwanted Emission	3.03dB
Radiated Unwanted Emission below 1GHz	3.56dB
Radiated Unwanted Emission 1-6GHz	4.94dB
Radiated Unwanted Emission 6-18GHz	5.08dB
Radiated Unwanted Emission 18-40GHz	6.54dB
Frequency stability	0.77×10^{-7}

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3 Maximum Output Power and Peak to Average Power Ratio and EIRP

Test result: Pass

3.1 Limit

Output Power:

FCC (EIRP) 1640 W(62.15dBm) or 3280W(65.16dBm) for emission bandwidth ≤ 1 MHz

1640 W/MHz(62.15dBm/MHz) or 3280W/MHz(65.16dBm/MHz) for emission bandwidth > 1 MHz

IC 65 dBm e.i.r.p./MHz

Peak to Average Ratio: ≤ 13 dB

Note: Stricter limit is applied.

3.2 Measurement Procedure

The EUT was configured to transmit on maximum power and proper modulation. The transmitter power shall be measured in terms of a root-mean-square (RMS) average value. In case of the EUT was configured to MIMO mode, since the EUT transmits on all antennas simultaneously in the same frequency range, using the Measure-and-Sum approach, the output power at all antennas were tested, and the total output power were then summed mathematically in linear power units.

A peak to average ratio measurement is performed at the conducted ports of the EUT for single carrier for single RAT mode. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) was used and 0.1% probability value recorded.

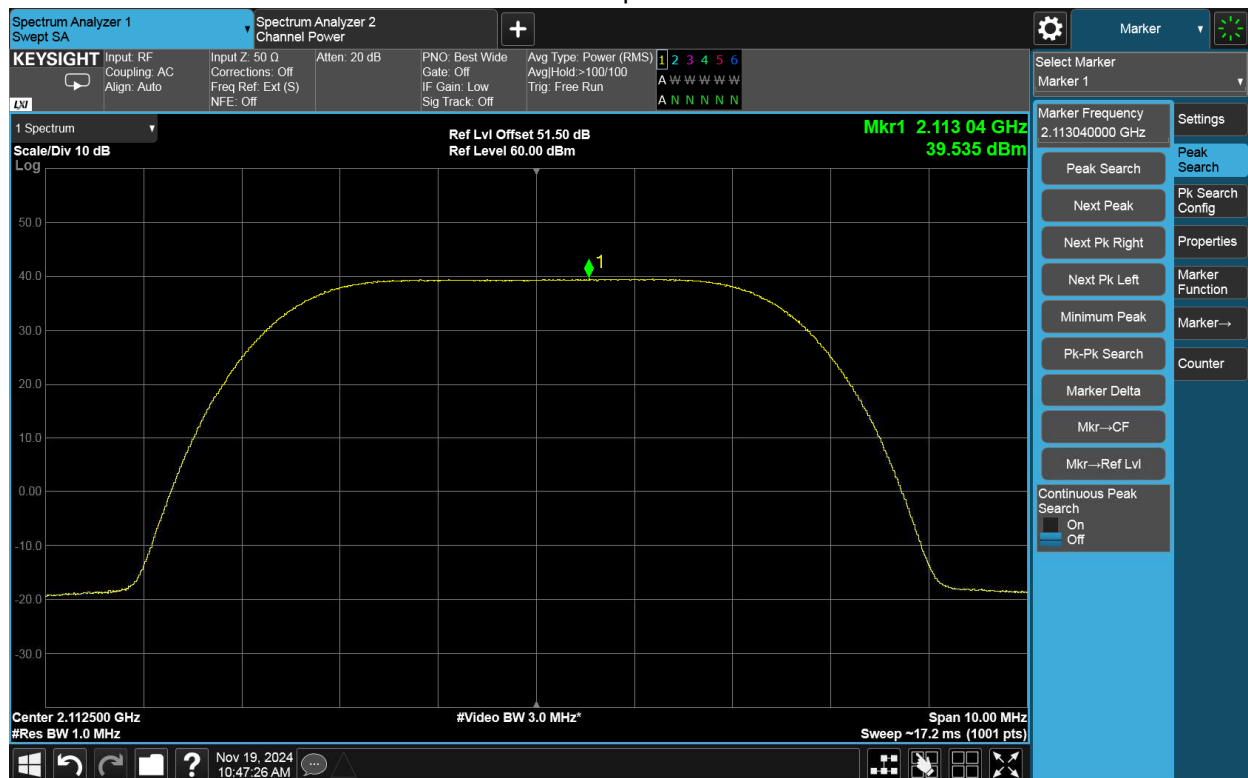
3.3 Measurement result

According to the following test results, 13.50dBi is applied as maximum allowed antenna gain to comply with the e.i.r.p. limit.

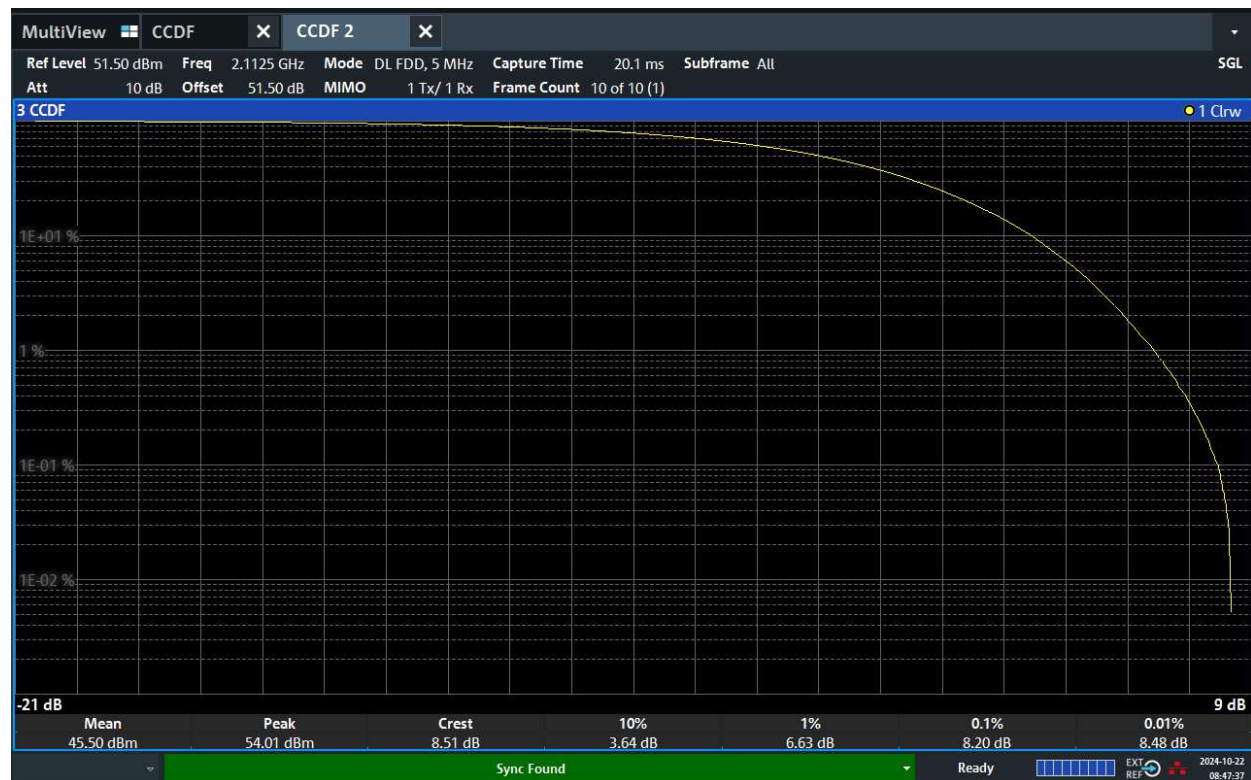
LTE-1C

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	64QAM	5	45.05	39.46	8.11	45.38	39.23	8.11	45.07	39.62	8.13
B	64QAM	5	45.00	39.45	8.20	45.46	39.74	8.11	45.27	39.56	8.10
C	64QAM	5	45.18	39.54	8.14	45.57	40.00	8.08	45.18	39.66	8.10
D	64QAM	5	45.15	39.53	8.11	45.51	39.55	8.10	45.21	39.58	8.16
Total conducted power			51.12	45.52	-	51.50	45.66	-	51.20	45.63	-
EIRP limit			-	62.15	13.00	-	62.15	13.00	-	62.15	13.00
Max antenna gain			-	16.63	-	-	16.49	-	-	16.52	-

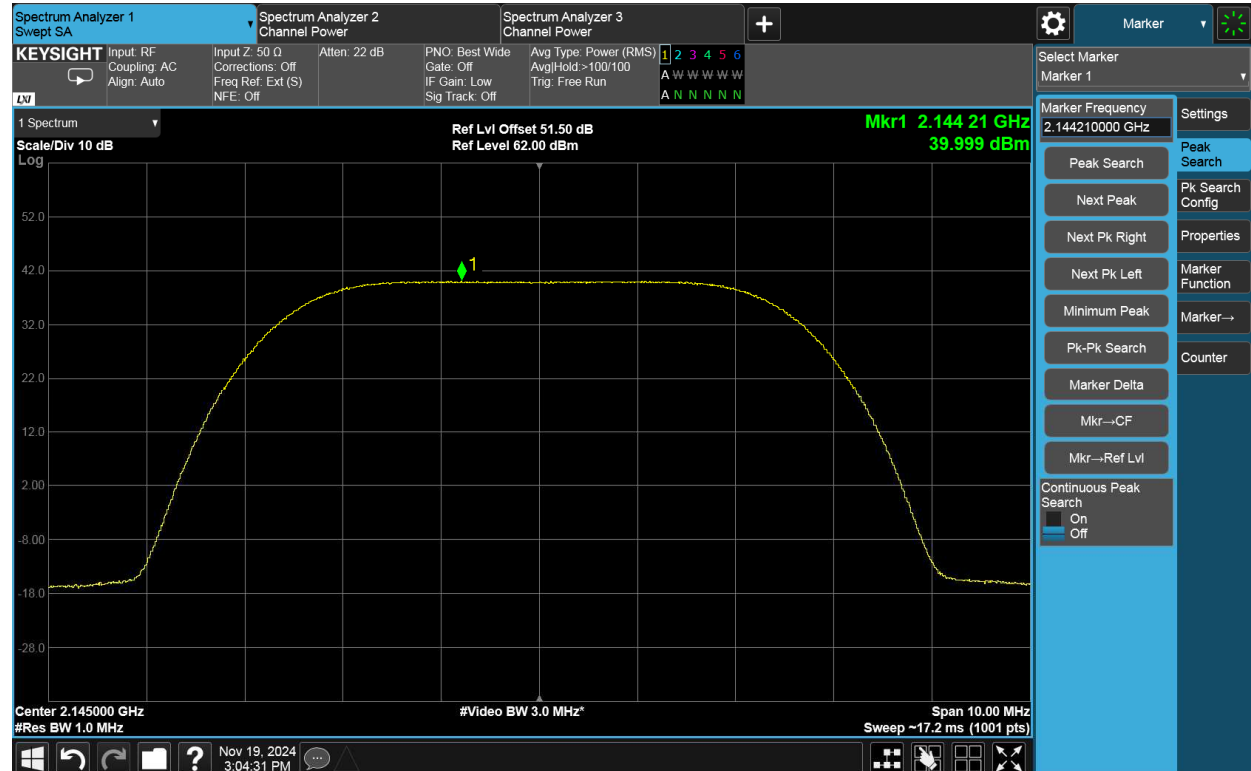
Channel position B



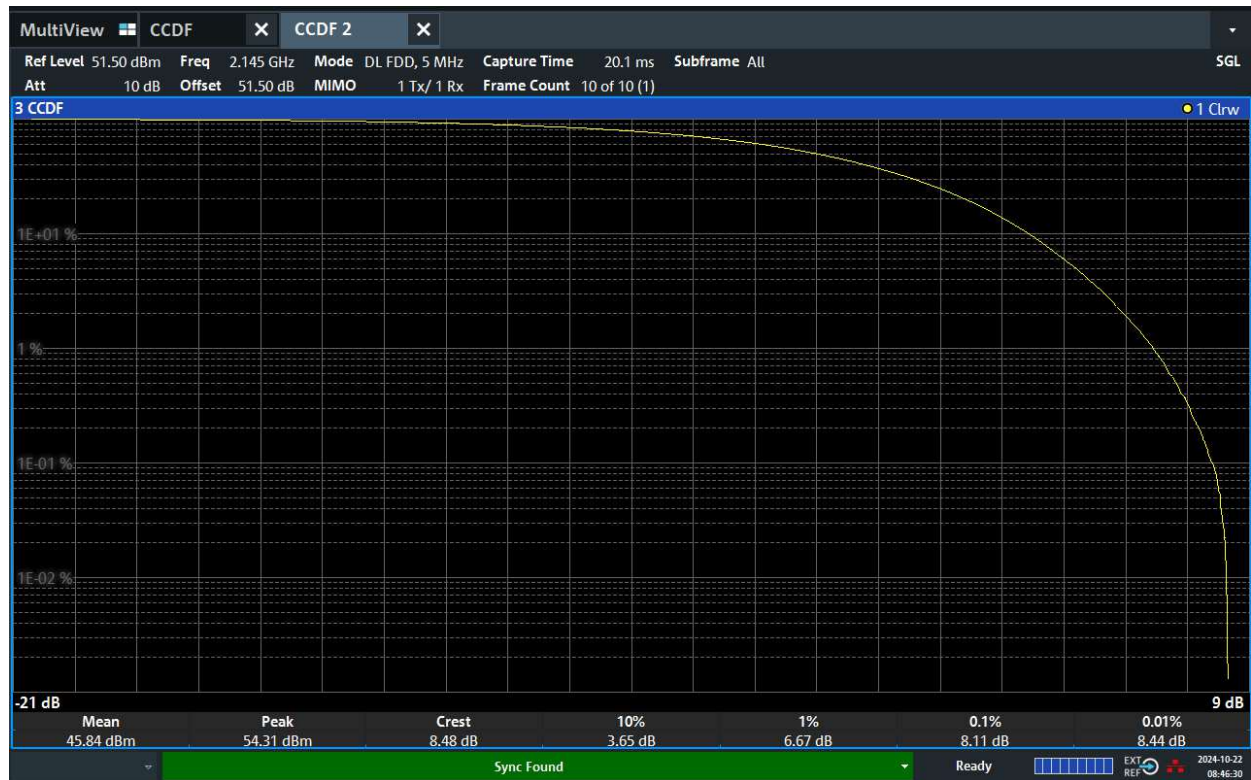
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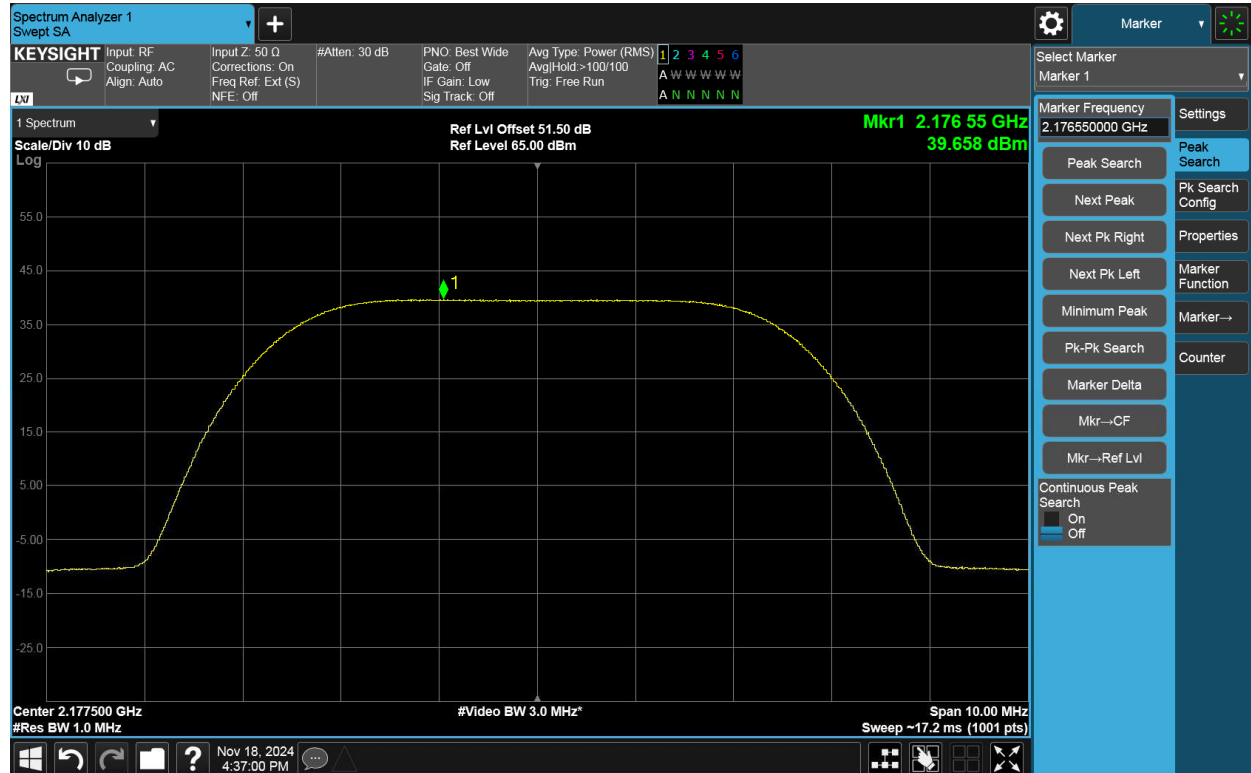
Channel position M



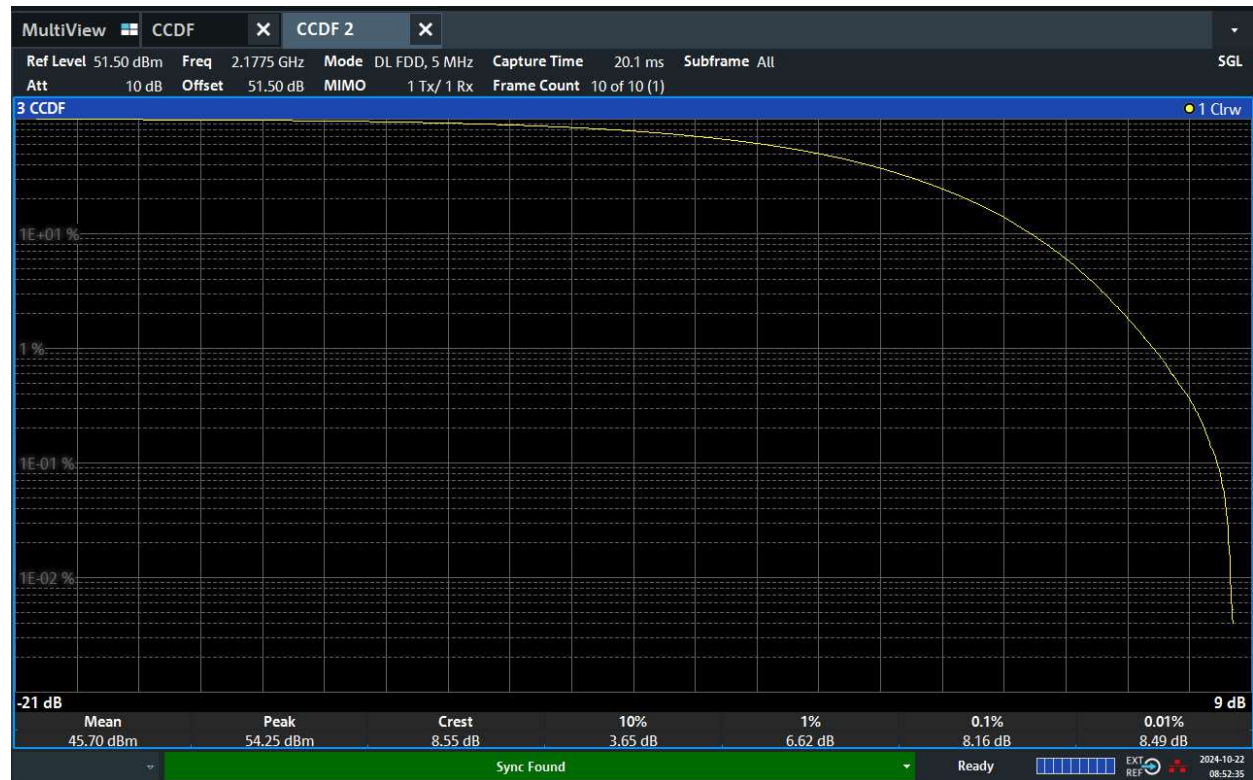
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Channel position T



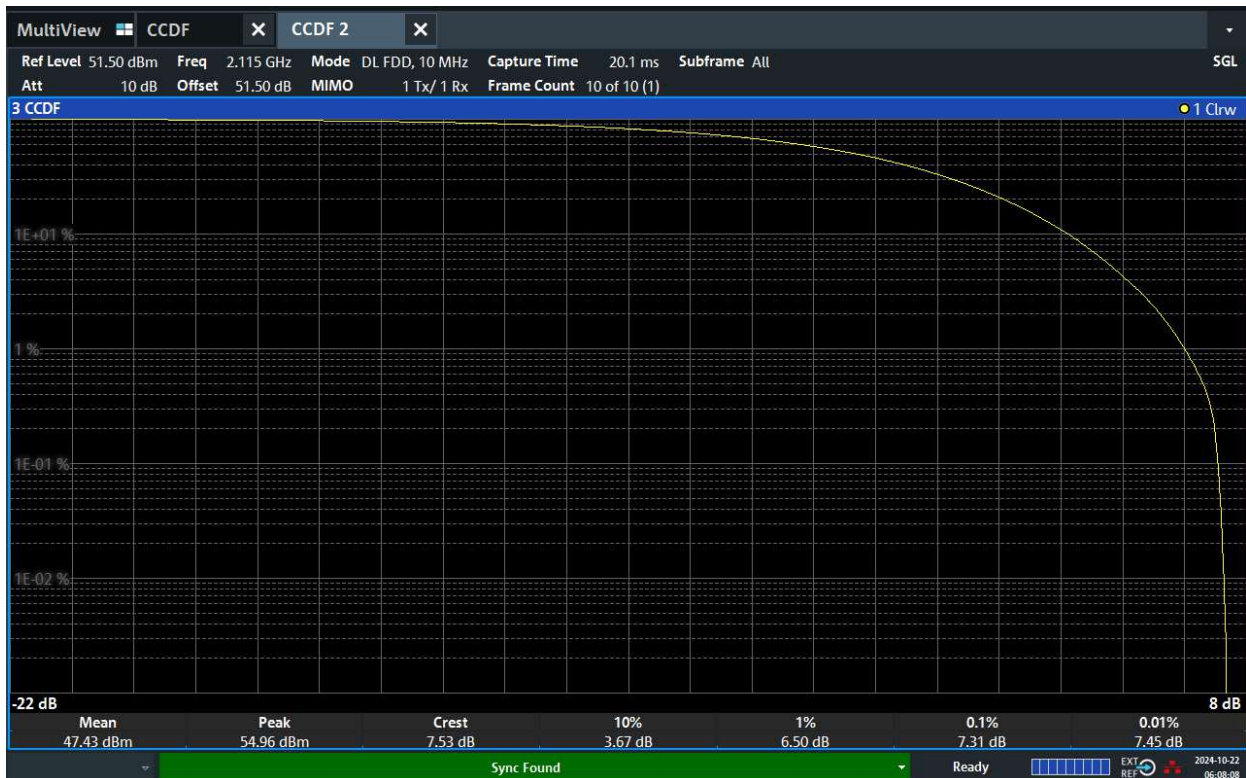
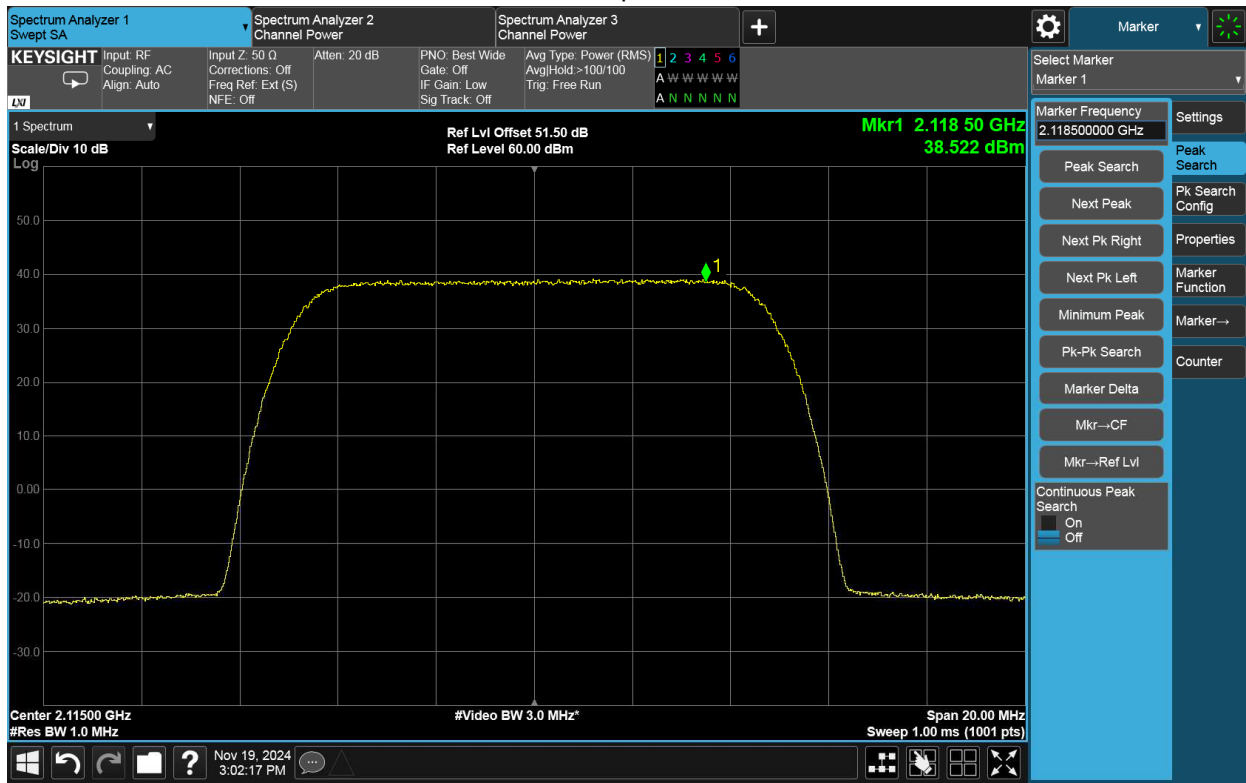
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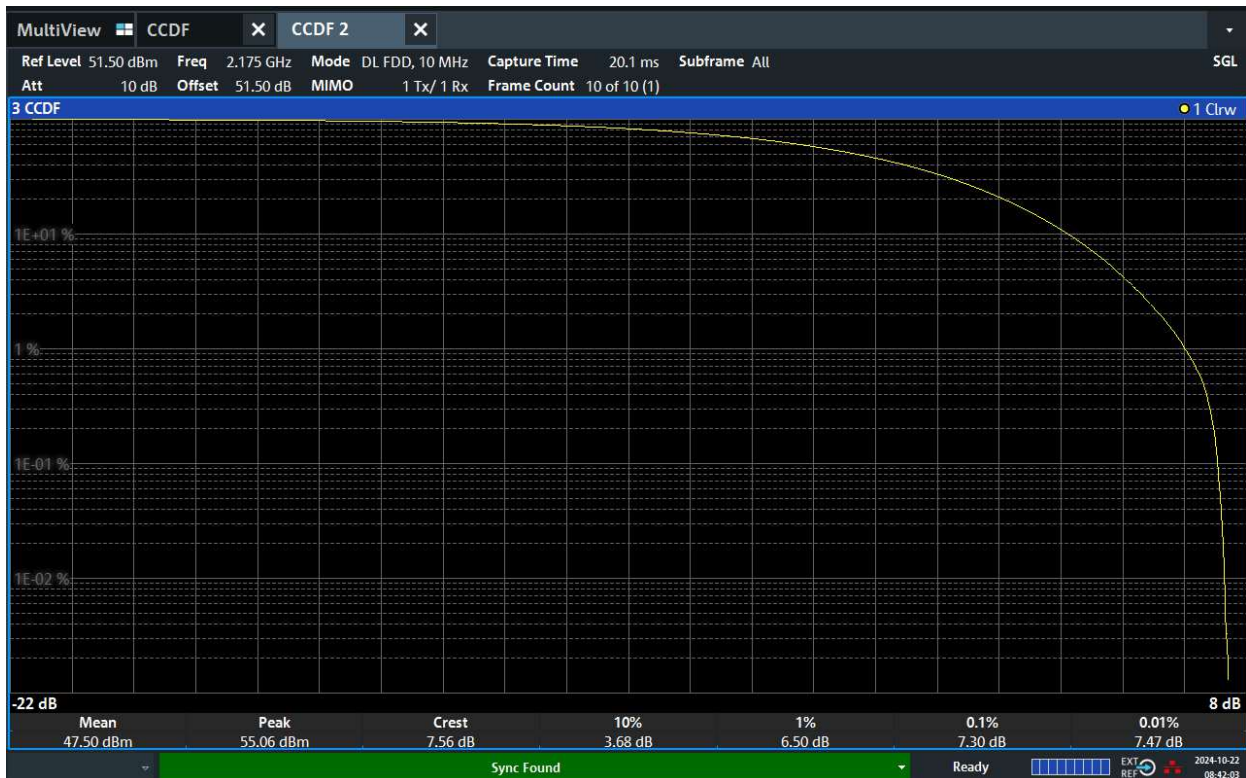
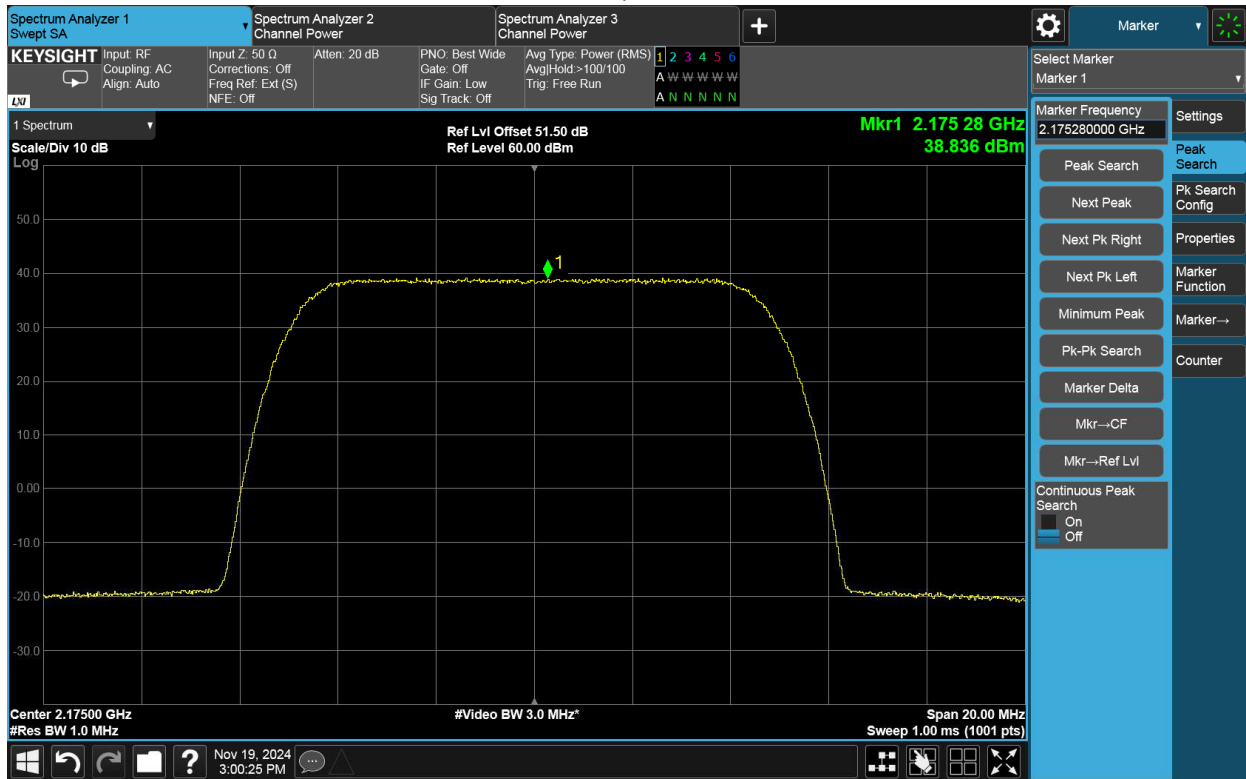
LTE-1C

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	64QAM	10	47.50	38.21	7.30	47.77	38.48	7.27	47.42	37.96	7.29
B	64QAM	10	47.49	38.42	7.30	47.50	38.34	7.27	47.54	38.50	7.30
C	64QAM	10	47.60	38.52	7.31	47.82	38.49	7.26	47.73	38.84	7.29
D	64QAM	10	47.51	38.16	7.30	47.69	38.40	7.27	47.61	38.25	7.29
Total conducted power			53.55	44.35	-	53.72	44.45	-	53.60	44.42	-
EIRP limit			-	62.15	13.00	-	62.15	13.00	-	62.15	13.00
Max antenna gain			-	17.80	-	-	17.70	-	-	17.73	-

Channel position B



Channel position T

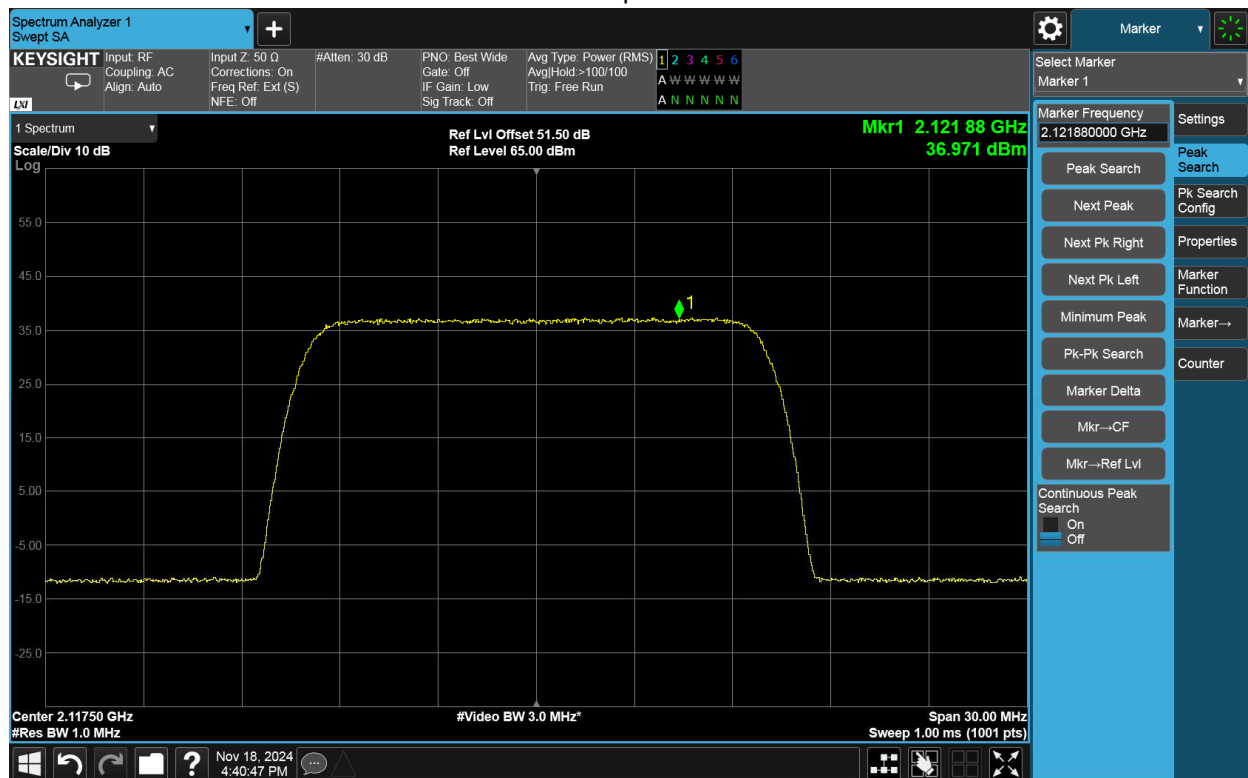


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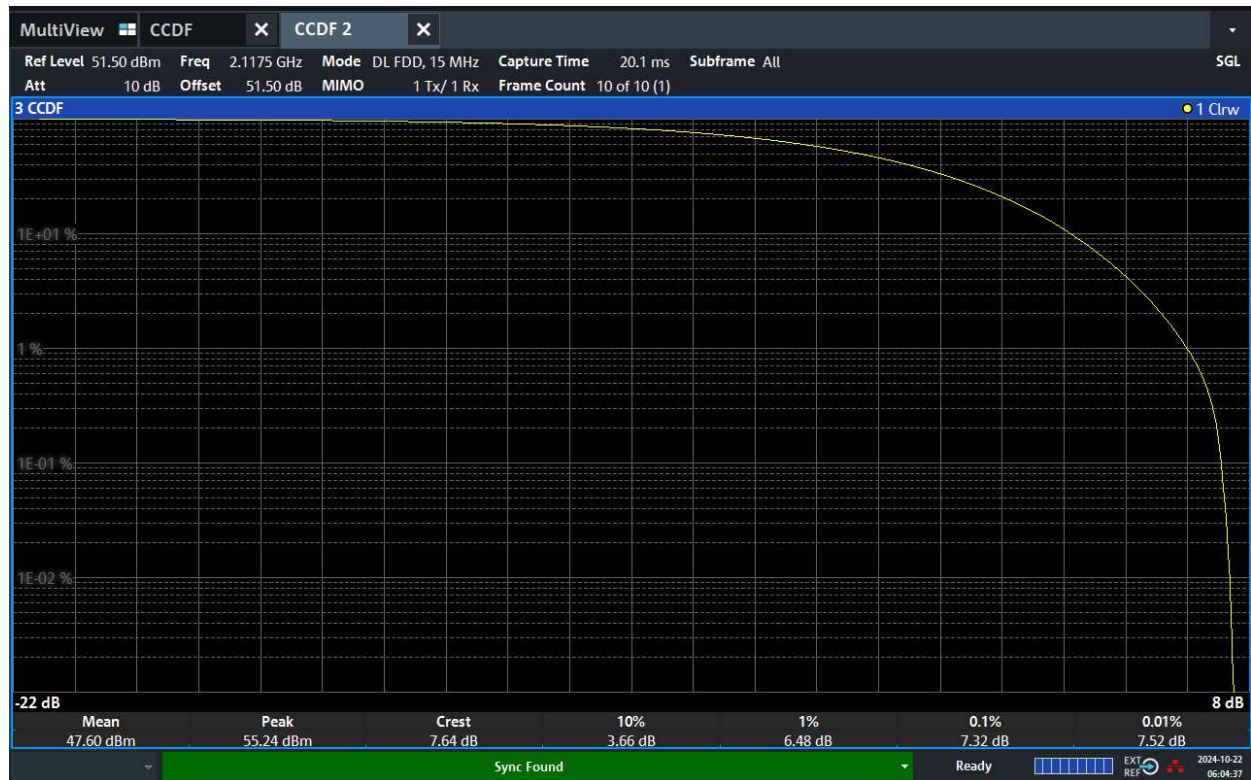
LTE-1C

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	64QAM	15	47.81	36.58	7.31	47.76	36.63	7.27	47.75	36.64	7.32
B	64QAM	15	47.74	36.73	7.31	47.89	36.91	7.27	47.81	36.66	7.35
C	64QAM	15	47.82	36.97	7.32	47.88	36.93	7.28	47.84	37.07	7.34
D	64QAM	15	47.84	36.80	7.31	47.79	36.90	7.27	47.91	36.89	7.33
Total conducted power			53.82	42.79	-	53.85	42.86	-	53.85	42.84	-
EIRP limit			-	62.15	13.00	-	62.15	13.00	-	62.15	13.00
Max antenna gain			-	19.36	-	-	19.29	-	-	19.31	-

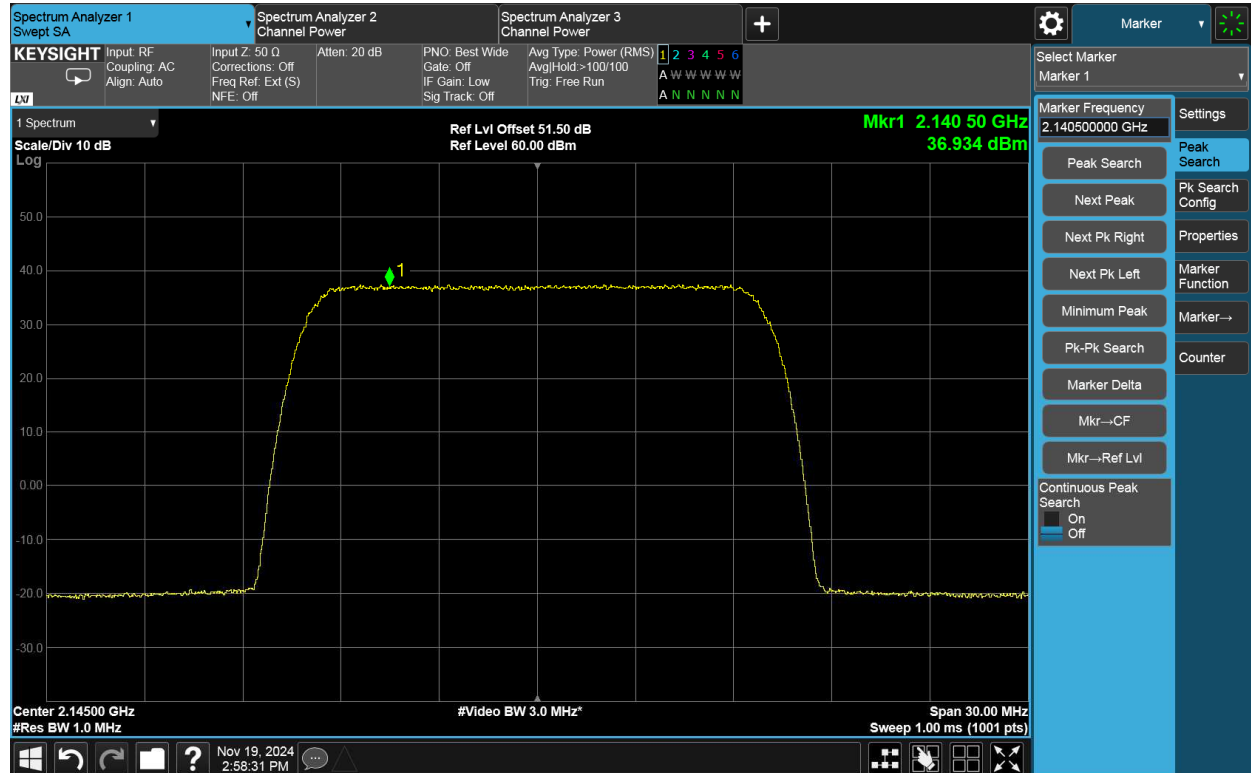
Channel position B



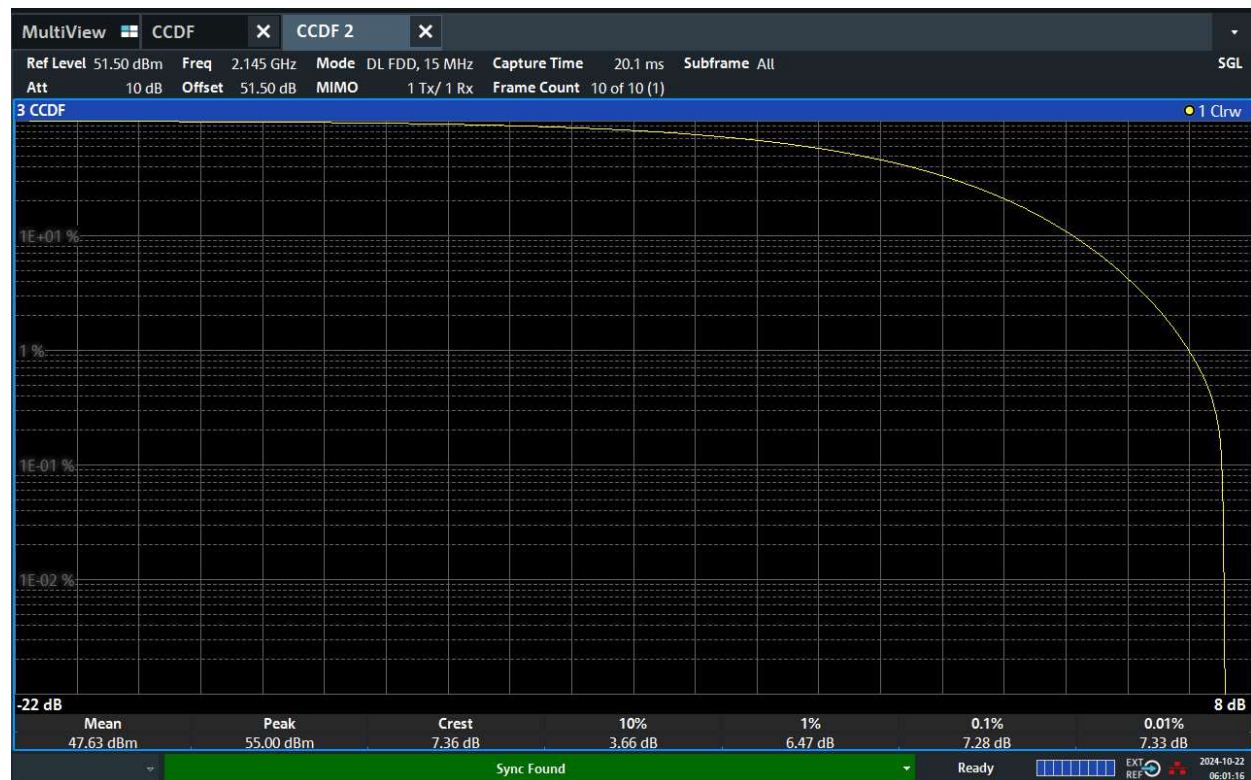
TEST REPORT



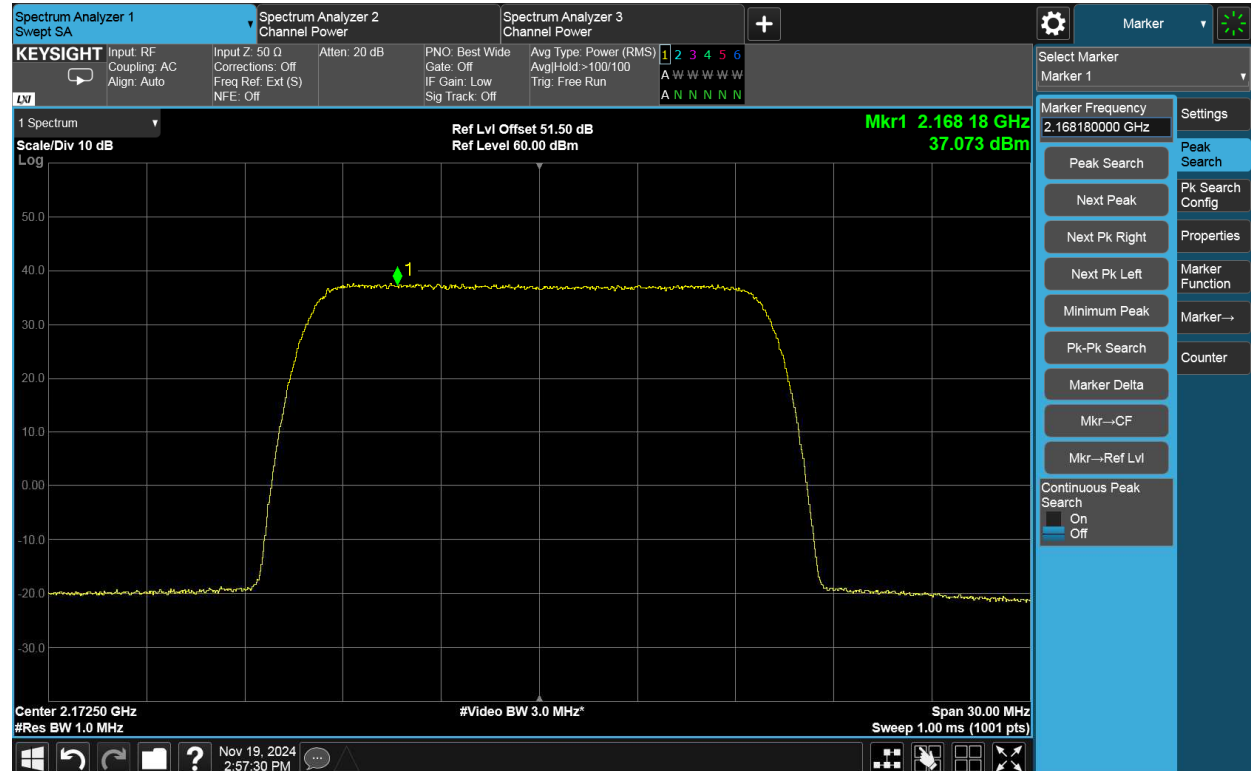
Channel position M



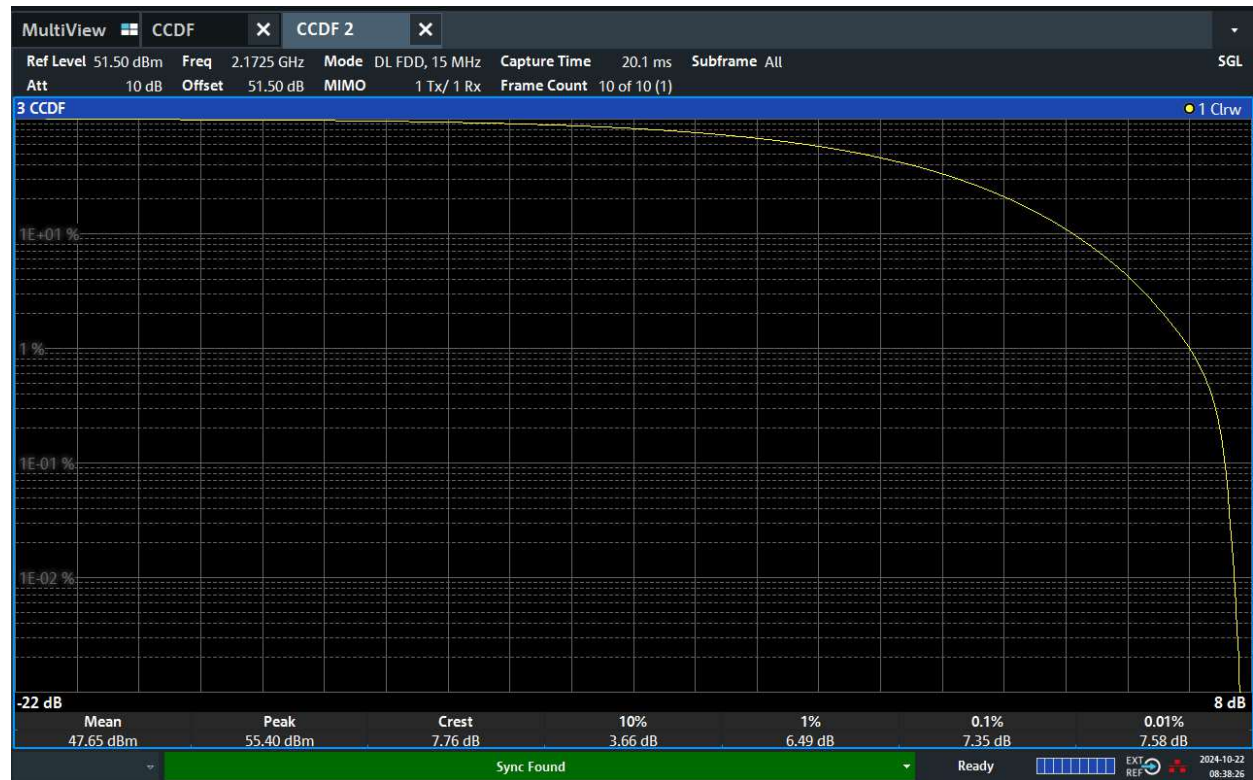
TEST REPORT



Channel position T



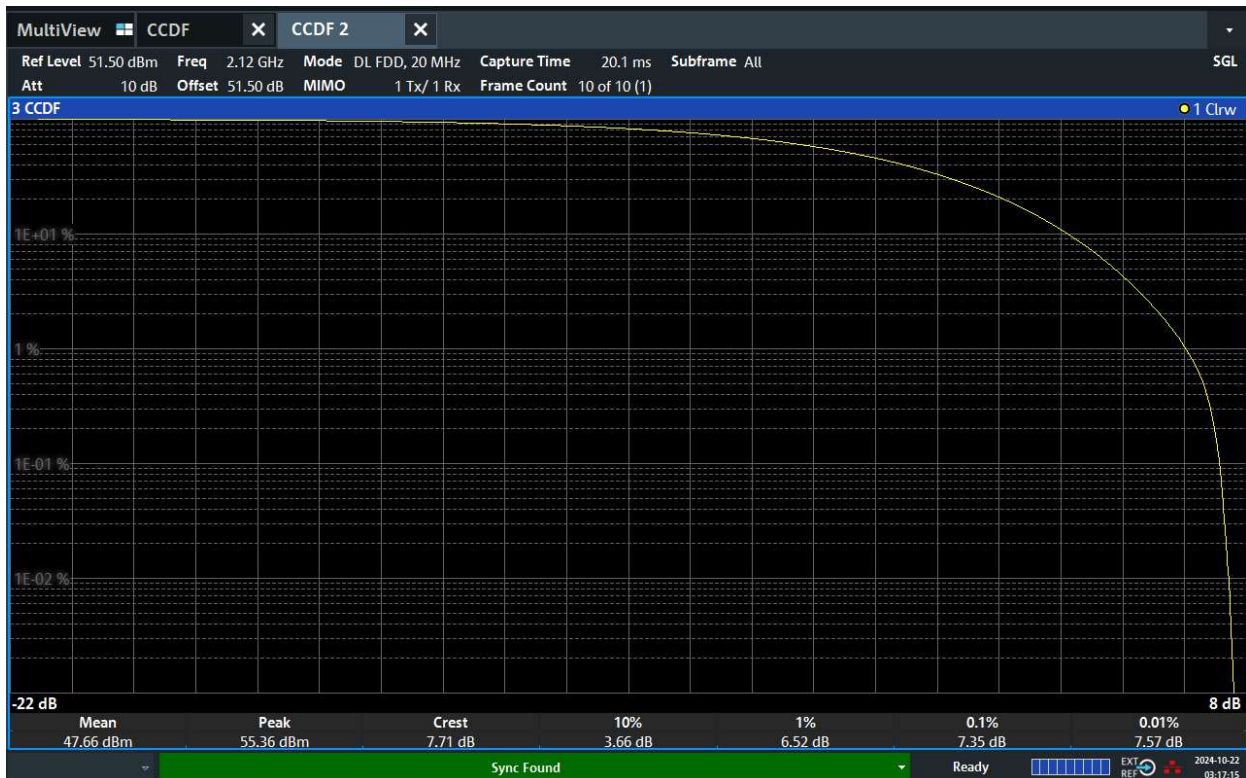
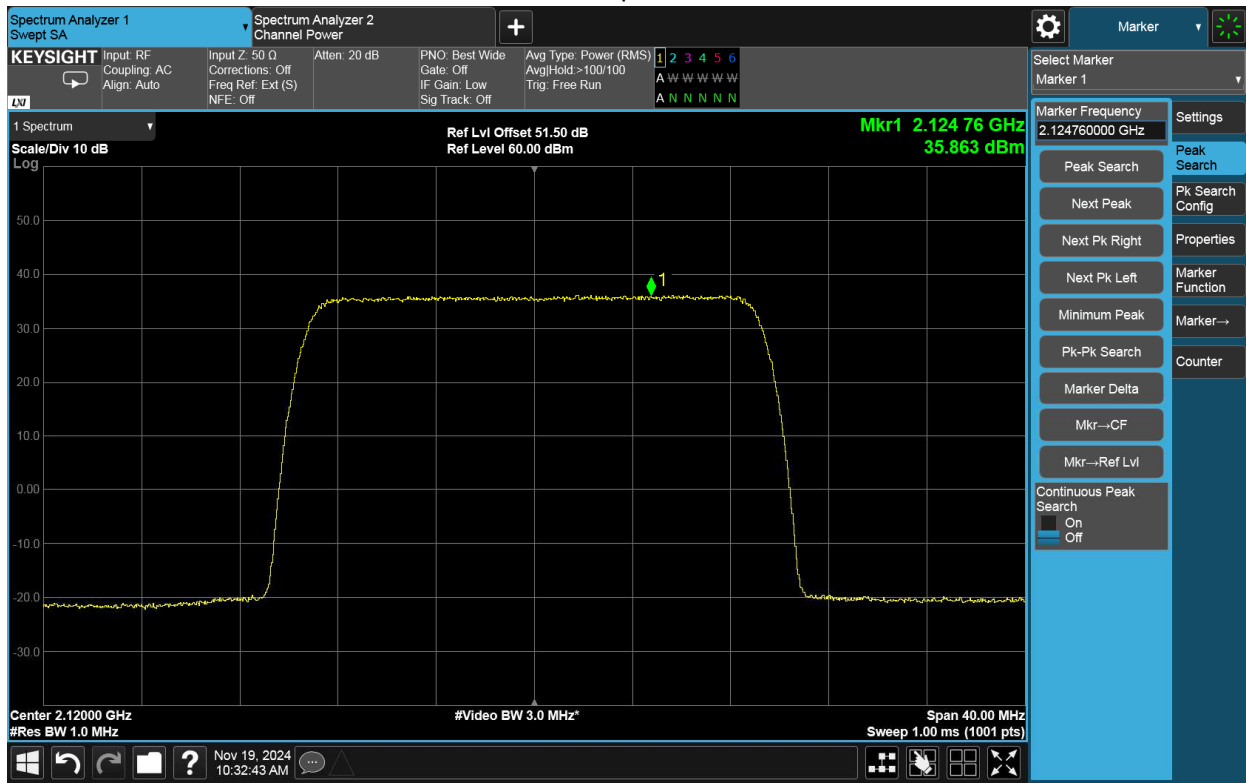
TEST REPORT



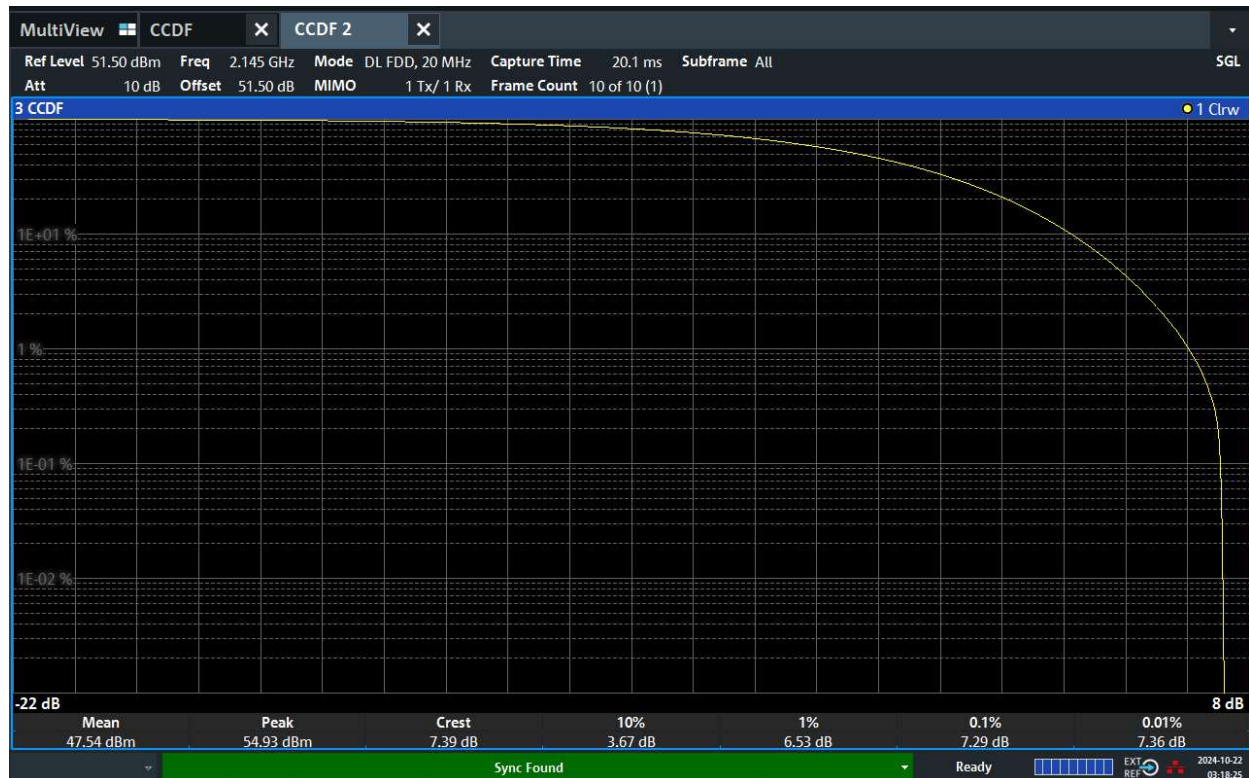
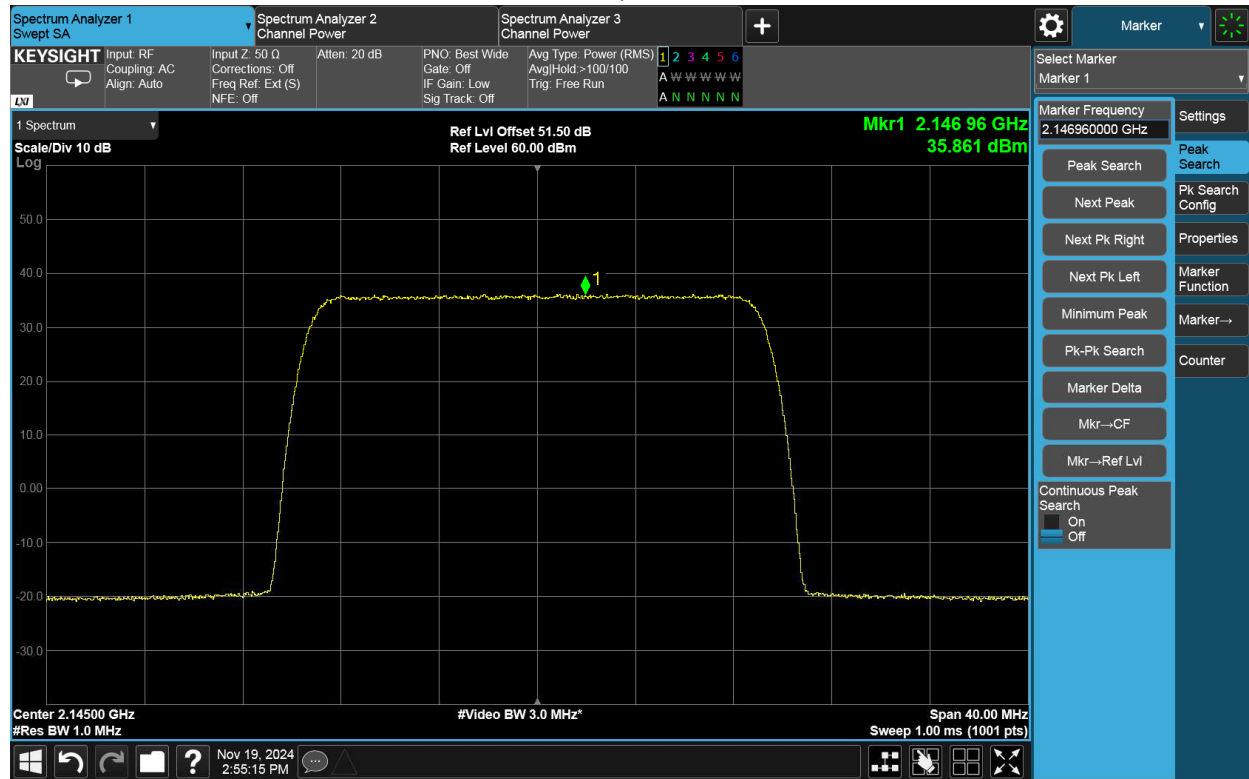
LTE-1C

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	64QAM	20	47.77	35.51	7.35	47.61	35.45	7.29	47.79	35.51	7.35
B	64QAM	20	47.68	35.41	7.33	47.83	35.70	7.28	47.75	35.45	7.37
C	64QAM	20	47.83	36.15	7.33	47.86	35.86	7.28	47.84	35.54	7.35
D	64QAM	20	47.69	35.86	7.33	47.73	35.67	7.28	47.70	35.38	7.35
Total conducted power			53.76	41.76	-	53.78	41.69	-	53.79	41.49	-
EIRP limit			-	62.15	13.00	-	62.15	13.00	-	62.15	13.00
Max antenna gain			-	20.39	-	-	20.46	-	-	20.66	-

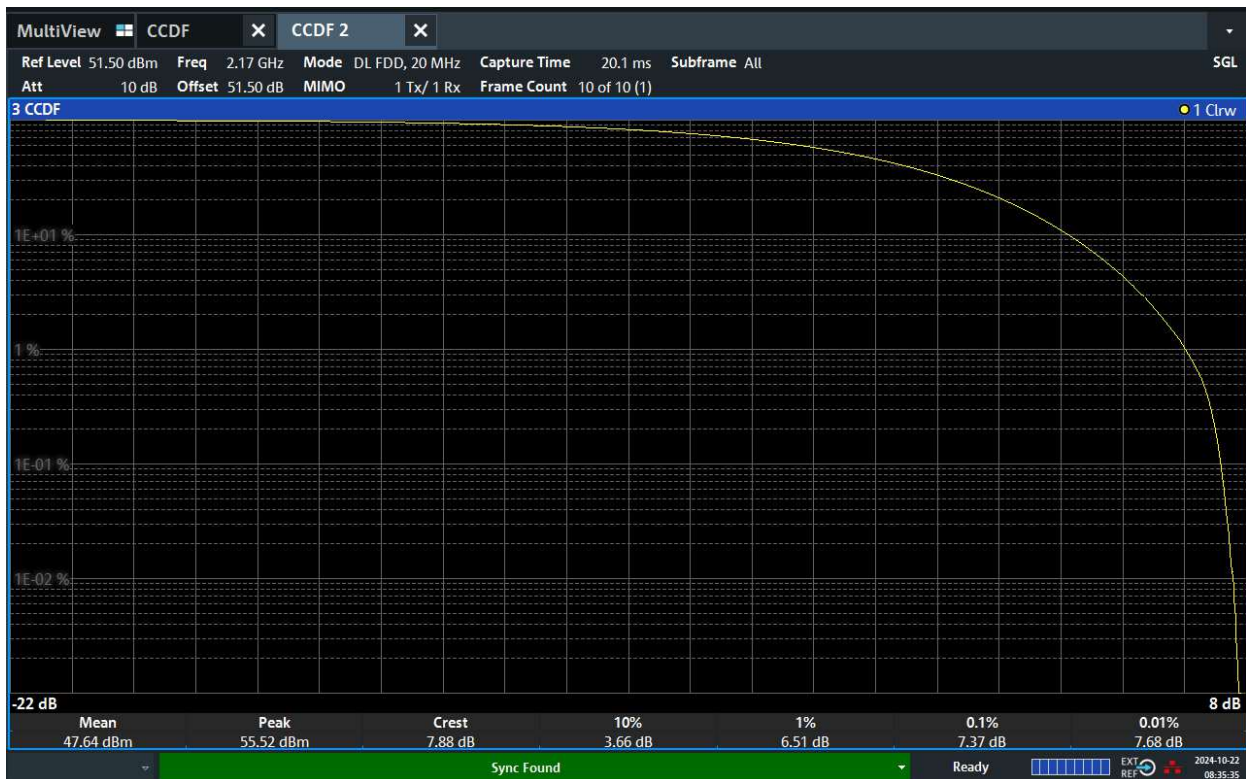
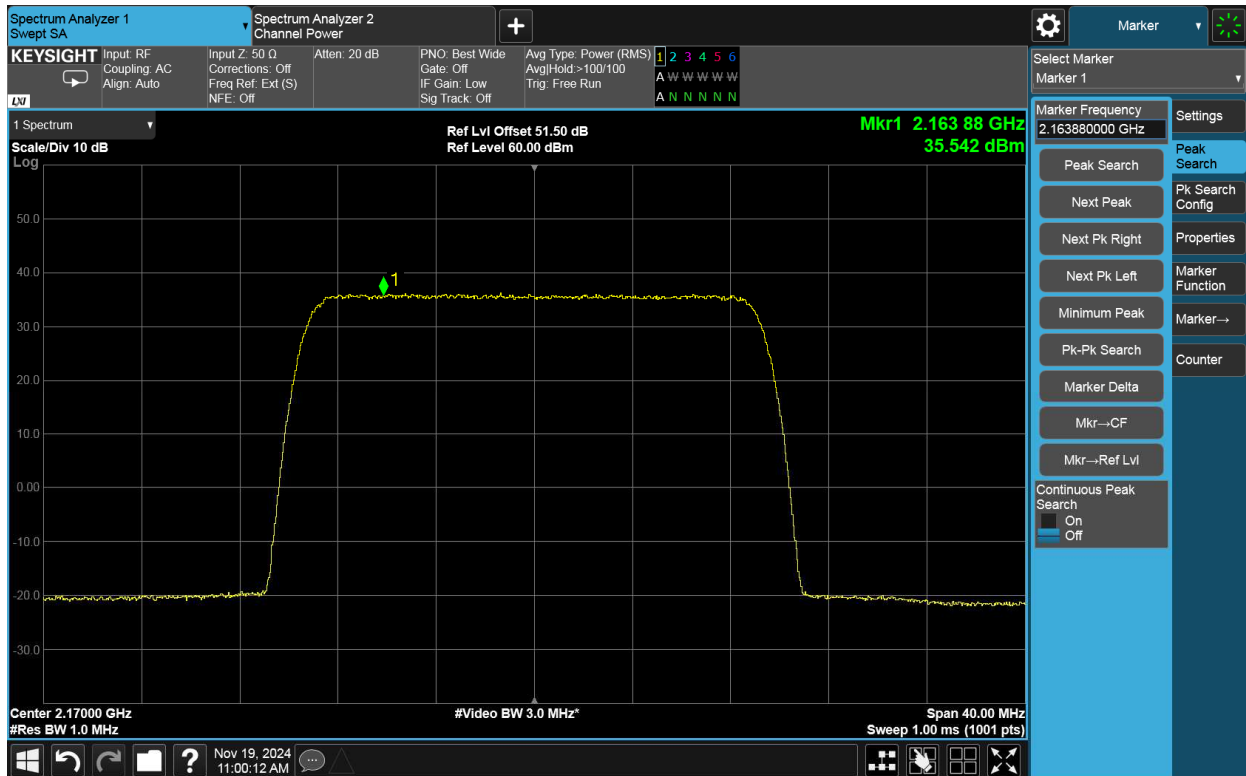
Channel position B



Channel position M



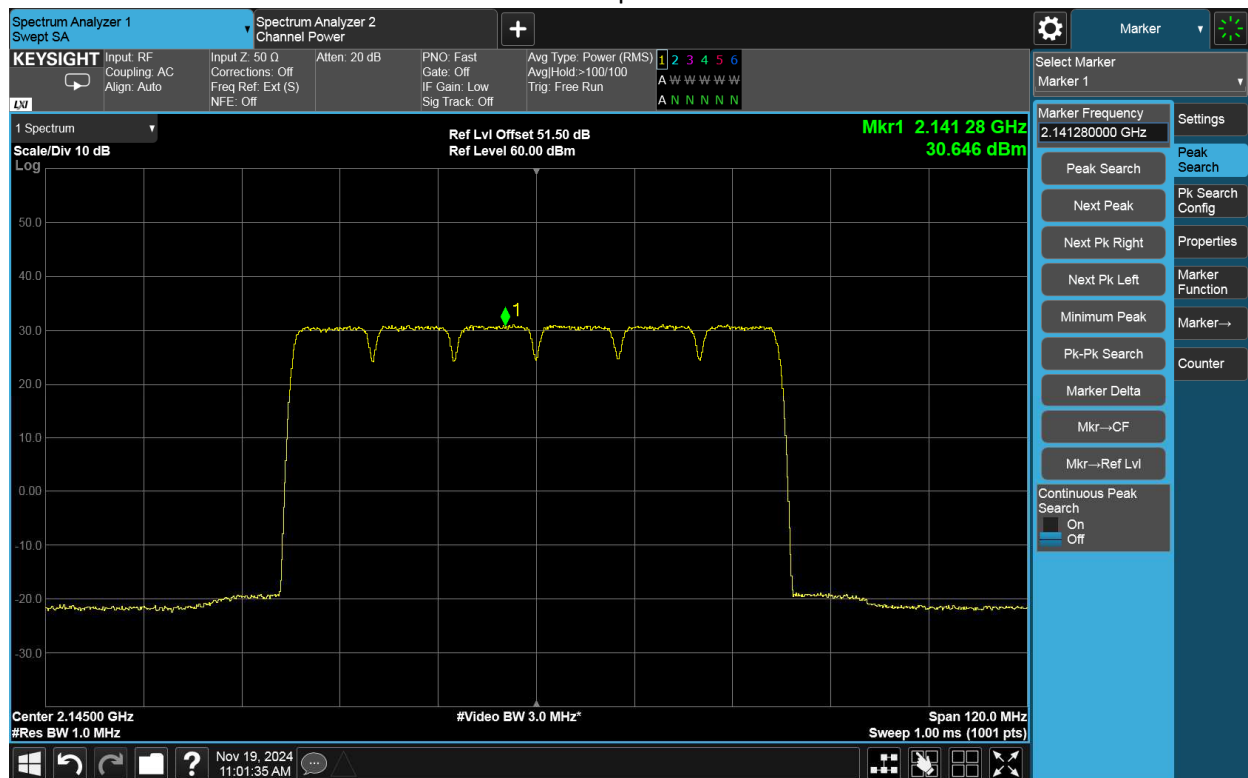
Channel position T



LTE-6C

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	64QAM	10	-	-	-	47.56	30.50	-	-	-	-
B	64QAM	10	-	-	-	47.73	30.25	-	-	-	-
C	64QAM	10	-	-	-	47.55	30.65	-	-	-	-
D	64QAM	10	-	-	-	47.55	30.38	-	-	-	-
Total conducted power			-	-	-	53.62	36.47	-	-	-	-
EIRP limit			-	-	-	-	62.15	-	-	-	-
Max antenna gain			-	-	-	-	25.68	-	-	-	-

Channel position M

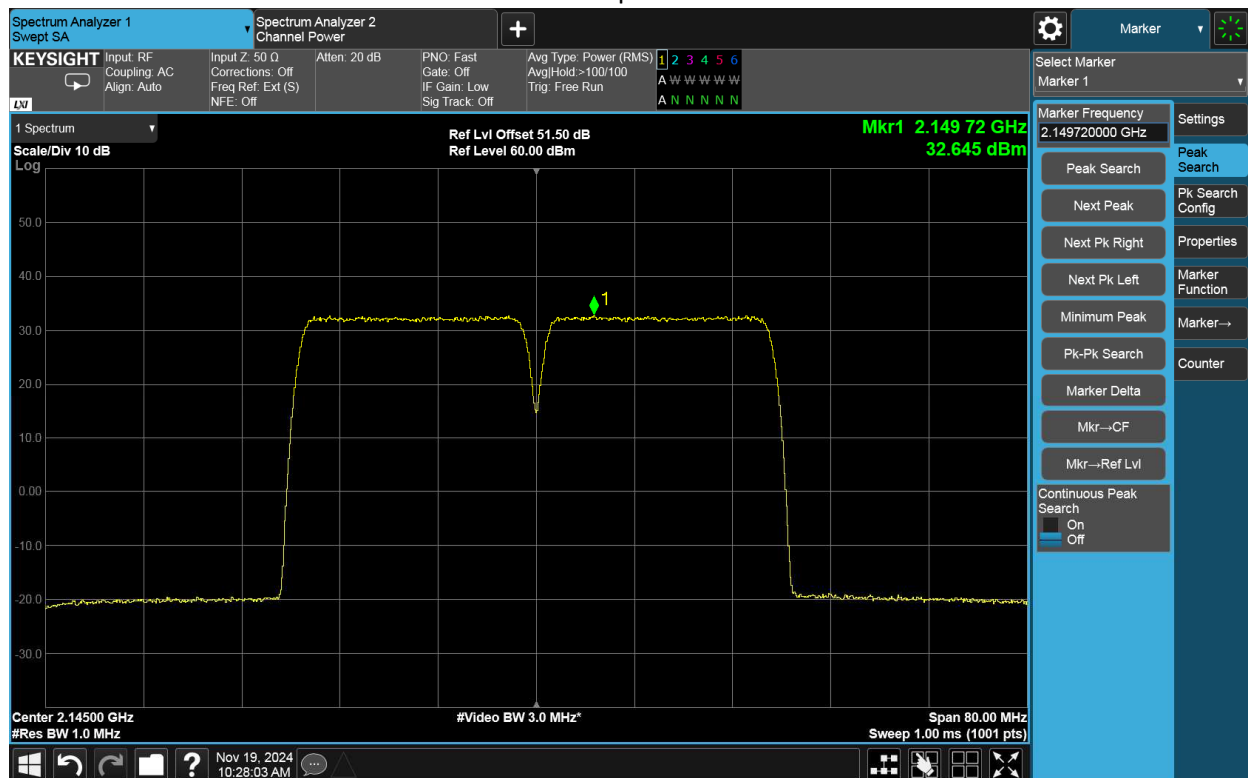


TEST REPORT

LTE-CA

Antenna Port	LTE Modulation	LTE Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	64QAM	20	-	-	-	47.44	32.54	7.20	-	-	-
B	64QAM	20	-	-	-	47.45	32.65	7.14	-	-	-
C	64QAM	20	-	-	-	47.55	32.16	7.20	-	-	-
D	64QAM	20	-	-	-	47.49	32.02	7.14	-	-	-
Total conducted power			-	-	-	53.50	38.37	-	-	-	-
EIRP limit			-	-	-	-	62.15	13.00	-	-	-
Max antenna gain			-	-	-	-	23.78	-	-	-	-

Channel position M



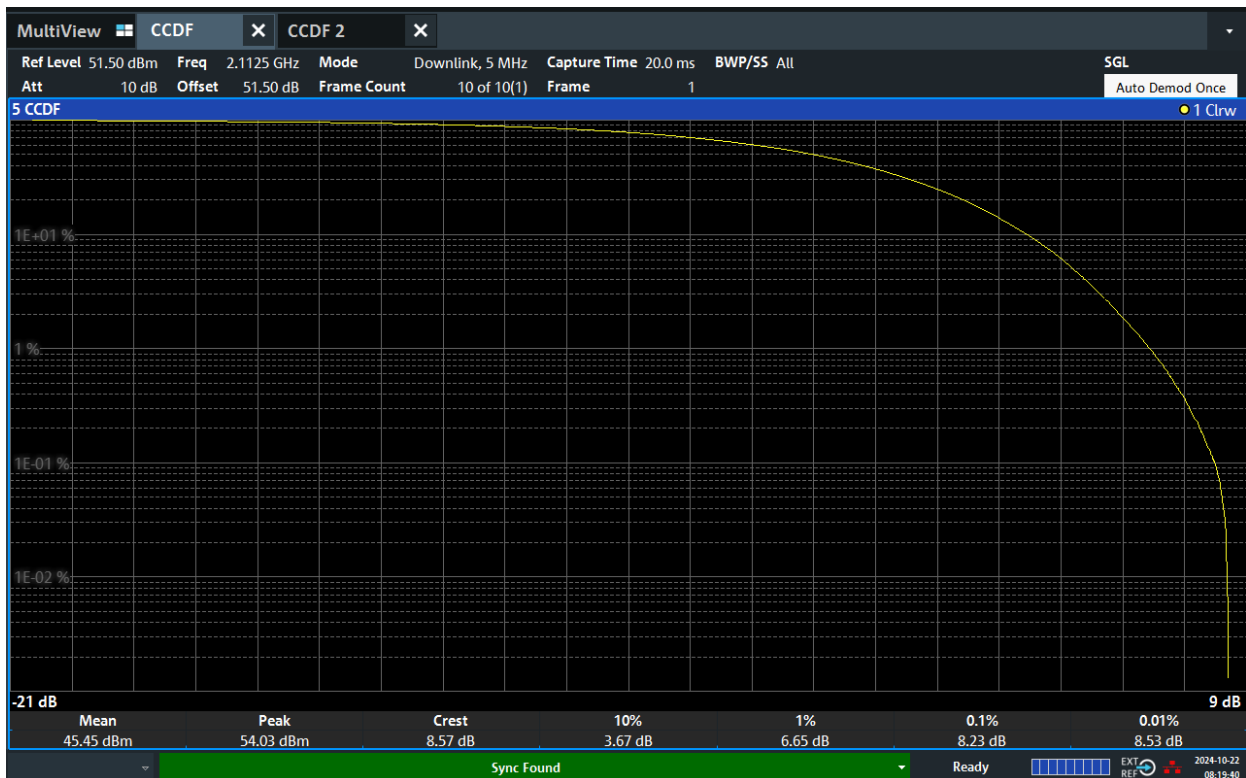
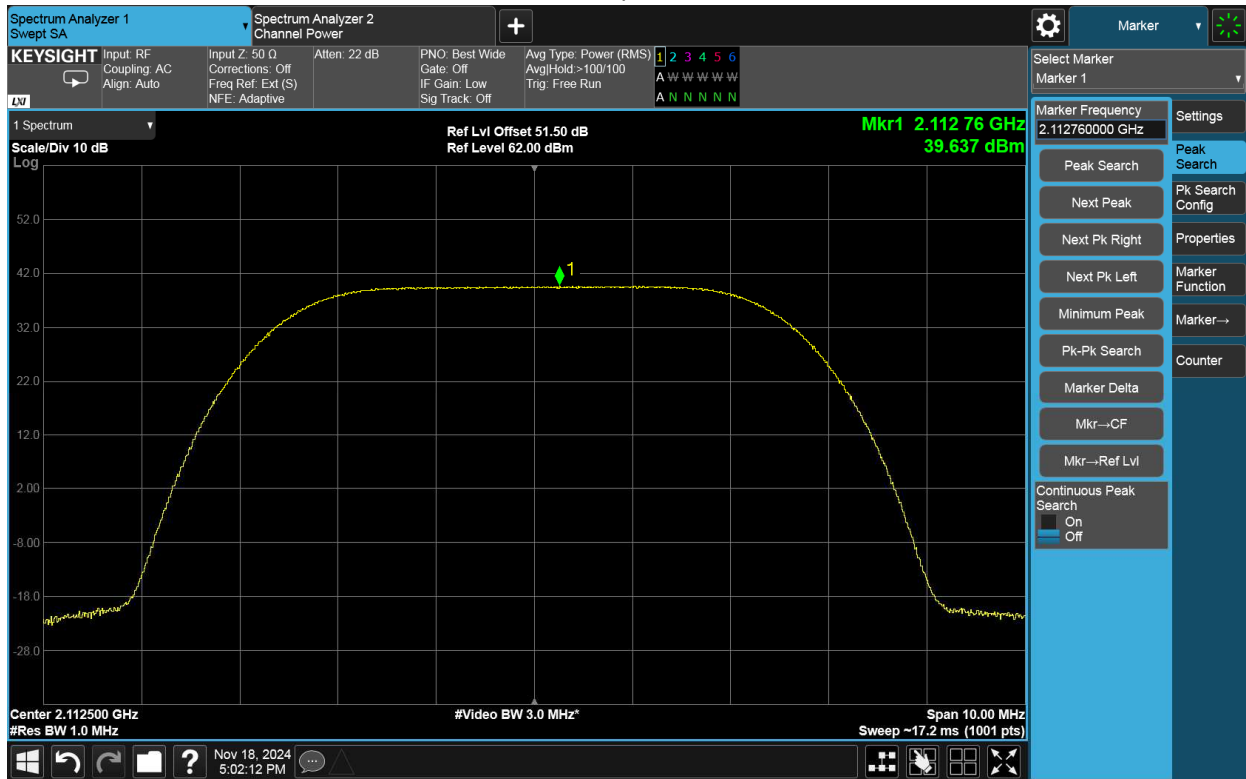
TEST REPORT



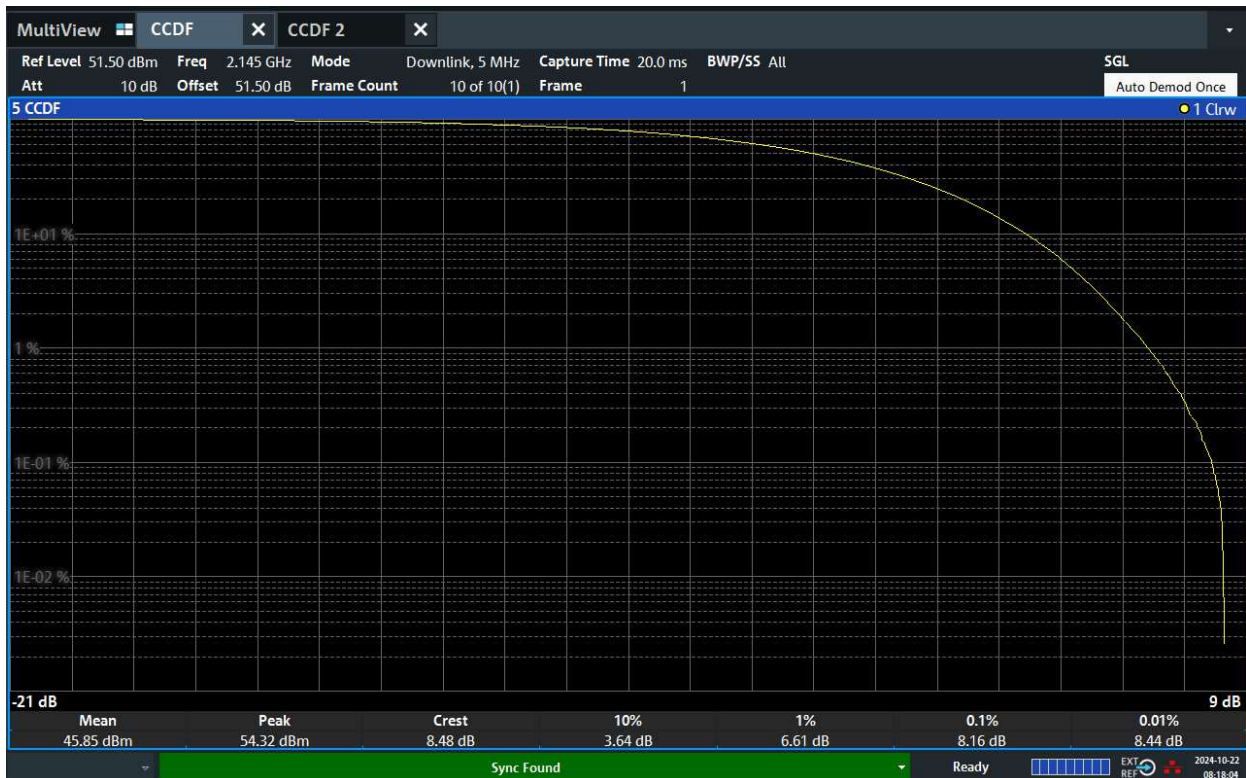
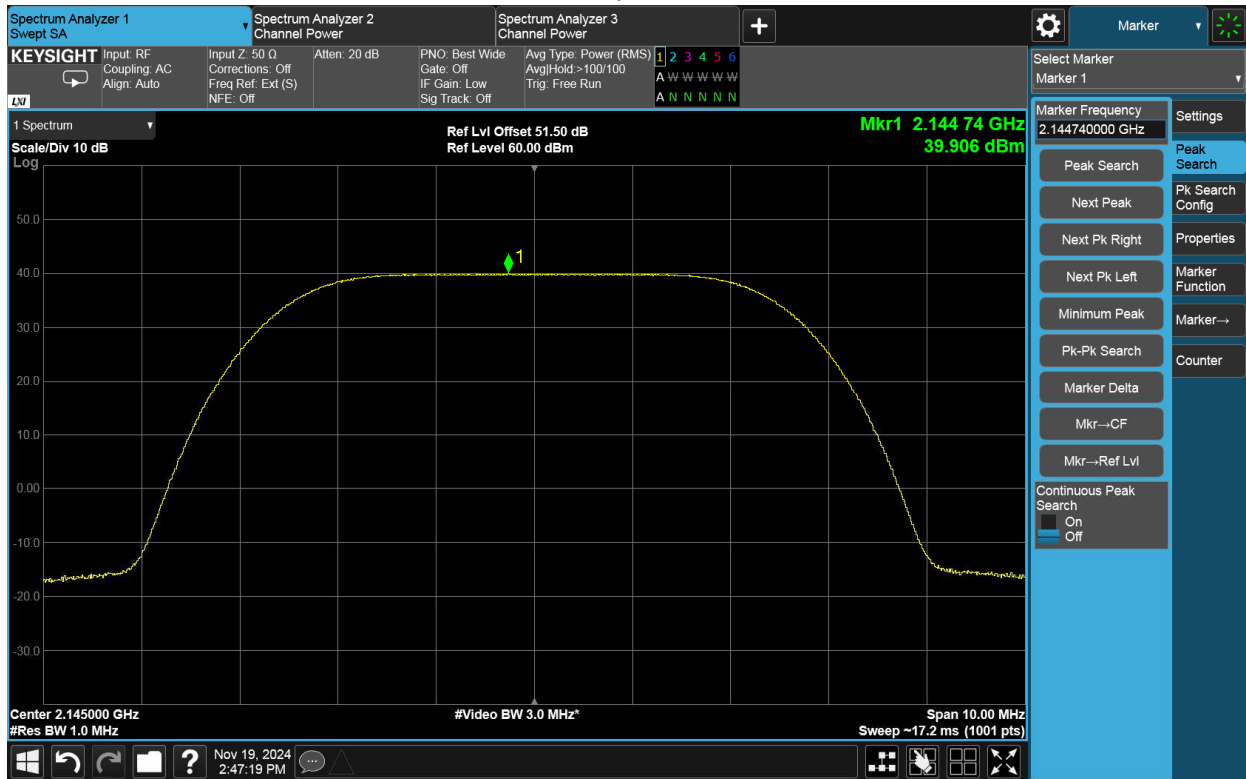
NR-1C

Antenna Port	NR Modulation	NR Carrier Bandwidth (MHz)	Output power / Peak-to-Average Ratio (PAR)								
			Channel position B			Channel position M			Channel position T		
			Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)	Power (dBm)	Power (dBm /MHz)	PAR (dB)
A	QPSK	5	45.09	39.64	8.15	45.32	39.45	8.15	45.03	39.32	8.18
B	QPSK	5	45.02	39.34	8.12	45.39	39.54	8.15	45.11	39.44	8.17
C	QPSK	5	45.06	39.40	8.23	45.49	39.88	8.16	45.26	39.41	8.17
D	QPSK	5	45.07	39.52	8.20	45.49	39.91	8.14	45.18	39.54	8.21
Total conducted power			51.08	45.50	-	51.44	45.72	-	51.17	45.45	-
EIRP limit			-	62.15	13.00	-	62.15	13.00	-	62.15	13.00
Max antenna gain			-	16.65	-	-	16.43	-	-	16.70	-

Channel position B



Channel position M



Channel position T

