FCC TEST REPORT

Name of Sample:	**Mobile Cellular Phone**
Model of Sample:	**XT2527-2**
Applicant:	**Motorola Mobility LLC**
Issue Date:	**2025-04-23**

ADR TEST AND CERTIFICATION CENTER

Motorola Mobility LLC, a Lenovo Company

Add: No. 19, Gao Xin 4th Road Wuhan, People's Republic of China 430205
Phone: (86) 13696970830
E-mail: suyj3@motorola.com

Name of Client	Motorola Mobility LLC		
Address of Client	222 W, Merchandise Mart Plaza, Chicago IL 60654 USA		
Trademark	Motorola	**Type Name or ID**	FCC ID: IHDT56AV4
Applicant No.	RF190517	**Sample No.**	1#: NN0E250109 2#: NN0E250108
Delivering Date	2025-03-27	**Test Date**	2025-03-27 to 2025-04-21
Sample Illustration	None		
Standard	47 CFR Part 2; 47 CFR Part 22; 47 CFR Part 27; 47 CFR Part 90;		
Conclusion	Pass		
Remarks	N/A		

Editor: Wangzhenyu **Reviewer:** Hexiaolin **Signatory:** HuangshengLin

Wangzhenyu Hexiaolin Eric Lin

Matters Needing Attention

a) The electronic report shall be valid after encryption.

b) The paper report shall be valid after being stamped with the official seal of the company.

c) The report is invalid without the signature of the Editor, Reviewer and Signatory.

d) The test report is invalid if there is any evidence of erasure and/or falsification.

e) If there is any dissidence for the test report, please file objection to the lab within 15 days from the date of receiving the test report.

f) The test report is only responsible for the tested model/sample. The sample(s) presented in this report are provided by client.

g) Context of the test report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of the lab.

Revision History

Report No.	Version	Description	Issued Date
TR-25ADRTCC7008	Rev.01	Initial issue of report	2025-04-23
TR-25ADRTCC7008	Rev.02	1, Update spot check summary information on page 7. 2, Update the difference declaration on page 7	2025-04-28
TR-25ADRTCC7008	Rev.03	1, Update the difference declaration on page 7	2025-04-29

Catalogue

1. TEST SUMMARY 5
   1.1. 5G NR BAND N5/N26 (824-849) 5
   1.2. 5G NR BAND N26 (814-824) 5
   1.3. 5G NR BAND N7/N38 5
   1.4. 5G NR BAND N41 5
   1.5. 5G NR BAND N71 5
   1.6. 5G NR BAND N77 (3700-3980)/N78 (3700-3800) 6
2. SUMMARY OF 5G NR SPOT CHECK 7
   2.1. REFERENCE DETAIL SECTION 7
   2.2. SPOT CHECK VERIFICATION DATA SECTION 7
3. MAXIMUM EFFECTIVE RADIATED (ISOTROPIC) POWER AND EMISSION DESIGNATOR 8
   3.1. NR SYSTEM 8
4. GENERAL INFORMATION 10
   4.1. GENERAL DESCRIPTION OF EUT 10
   4.2. TEST ENVIRONMENT 10
   4.3. SPECIFICATION OF ACCESSORIES 10
5. TEST CONFIGURATION OF EQUIPMENT UNDER TEST 11
   5.1. TEST MODE FOR NR CONFIGURATION 11
   5.2. TEST FREQUENCIES 12
6. DESCRIPTION OF TESTS 14
   6.1. CONDUCTED OUTPUT POWER MEASUREMENT 14
   6.2. EFFECTIVE (ISOTROPIC) RADIATED POWER 14
   6.3. PEAK-TO-AVERAGE RATIO MEASUREMENT 14
   6.4. 99% OCCUPIED BANDWIDTH & 26DB EMISSION BANDWIDTH 15
   6.5. CONDUCTED BAND EDGE MEASUREMENT 15
   6.6. EMISSION MASK 16
   6.7. CONDUCTED SPURIOUS EMISSION MEASUREMENT 17
   6.8. FREQUENCY STABILITY MEASUREMENT 17
7. LIST OF MEASURING EQUIPMENT 17
8. MEASUREMENT UNCERTAINTY 18
   8.1. UNCERTAINTY OF CONDUCTED MEASUREMENT 18
9. APPENDIXES 18

1. Test Summary

1.1. 5G NR Band n5/n26 (824-849)

Test Item	Rule No.	Requirements	Test Result	Verdict
Conducted Power	§2.1046	Report Only	Section 1 of Appendix B	Pass
Effective Radiated Power	§22.913(a)(5)	ERP < 7W		

1.2. 5G NR Band n26 (814-824)

Test Item	Rule No.	Requirements	Test Result	Verdict
Conducted Power	§2.1046 §90.635	Report Only	Section 1 of Appendix B	PASS

1.3. 5G NR Band n7/n38

Test Item	Rule No.	Requirements	Test Result	Verdict
Conducted Power	§2.1046	Report Only	Section 1 of Appendix B	Pass
Effective Isotropic Radiated Power	§27.50(h) (2)	EIRP < 2W		

1.4. 5G NR Band n41

Test Item	Rule No.	Requirements	Test Result	Verdict
Conducted Power	§2.1046	Report Only	Section 1 of Appendix B	Pass
Effective Isotropic Radiated Power	§27.50(h) (2)	EIRP < 2W		
Peak-Average Ratio	§27.50(a)	<13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Occupied Bandwidth	§2.1049	No limit	Section 4 of Appendix B	Pass
26dB Emission Bandwidth		No limit		
Conducted Band Edges	§2.1051 §27.53(m) (4)	For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5MHz.	Section 5 of Appendix B	Pass
Conducted Spurious Emission	§2.1051 §27.53(m) (4)	< -25 dBm/MHz for outside Band Edge Range	Section 6 of Appendix B	Pass
Frequency Stability	§27.54	Within authorized bands	Section 7 of Appendix B	Pass

1.5. 5G NR Band n71

Test Item	Rule No	Requirements	Test Result	Verdict
Conducted Power	§2.1046	Report Only	Section 1 of Appendix B	Pass
Effective Radiated Power	§27.50(c)(10)	ERP < 3W		
Peak-Average Ratio	---	<13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass

Test Item	Rule No	Requirements	Test Result	Verdict
Occupied Bandwidth	§2.1049	No limit	Section 4 of Appendix B	Pass
26dB Emission Bandwidth		No limit		
Conducted Band Edges	§2.1051 §27.53(g)	< -13 dBm/1%*EBW, in 1MHz bands immediately outside and adjacent to the frequency block	Section 5 of Appendix B	Pass
Conducted Spurious Emission	§2.1051 §27.53(g)	< -13 dBm/100kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges	Section 6 of Appendix B	Pass
Frequency Stability	§27.54	Within authorized bands	Section 7 of Appendix B	Pass

1.6. 5G NR Band n77 (3700-3980)/n78 (3700-3800)

Test Item	Rule No.	Requirements	Test Result	Verdict
Conducted Power	§2.1046	Report Only	Section 1 of Appendix B	Pass
Effective Isotropic Radiated Power	§27.50(j) (3)	EIRP < 1W		
Peak-Average Ratio	§27.50(j) (4)	<13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Occupied Bandwidth	§2.1049	No limit	Section 4 of Appendix B	Pass
26dB Emission Bandwidth		No limit		
Conducted Band Edges	§2.1051 §27.53(l) (2)	< -13 dBm/MHz	Section 5 of Appendix B	Pass
Conducted Spurious Emission	§2.1051 §27.53(l) (2)	< -13 dBm/MHz	Section 6 of Appendix B	Pass
Frequency Stability	§27.54	Within authorized bands	Section 7 of Appendix B	Pass

Remark:

1, Only 5G NR Bands conducted test performed and the data displayed in this report, the radiated spurious emission refer to the report (25ADRTCC5020).

2, The maximum E(I)RP is calculated from max output power and max antenna gain, only the max E(I)RP data displayed in this report, n5/n26/n71 for Antenna 0; n7/n38/n41 for Antenna 1; n77/n78 for antenna 5.

3, 5G NR Bands support SA mode for n5/n7/n26/n38/n41/n71/n77/n78 and NSA mode for n5/n7/n38/n41/n71/n77/n78.

4, The test has been assessed on SA and NSA mode, but only the worst mode performed the whole conducted test items by referring to the max conducted power.

5, The ENDC combination could be referred to the product specification.

6, 5G NR n77/n78 supports HPUE mode.

2. Summary of 5G NR Spot Check

2.1. Reference Detail Section

Rule Part	Frequency Band	Reference FCC ID (Parent)	Reference on test	Reference Title	FCC ID (Variant)	Test on the variant	Data Reference (Y/N)
22, 27, 90	n5	IHDT56AV5	Full Test	25ADRTCC7007	IHDT56AV4	Spot Check	Y All test items
	n7	IHDT56AV5	Full Test	25ADRTCC7007	IHDT56AV4	Spot Check	Y All test items
	n26	IHDT56AV5	Full Test	25ADRTCC7007	IHDT56AV4	Spot Check	Y All test items
	n38	IHDT56AV5	Full Test	25ADRTCC7007	IHDT56AV4	Spot Check	Y All test items
	n41	IHDT56AV5	Full Test	25ADRTCC7007	IHDT56AV4	Spot Check	Y All test items

2.2. Spot Check Verification Data Section

Test Item	Mode	Worst Mode Test Result		Deviation (dB)	Limit (dB)
		IHDT56AV5 (TR-25ADRTCC7007)	IHDT56AV4 (TR-25ADRTCC7008)		
Conducted Power	n5	23.25	22.63	-0.62	3
	n7	23.56	22.80	-0.76	3
	n26	23.30	22.68	-0.62	3
	n38	23.67	23.22	-0.45	3
	n41	23.76	23.44	-0.32	3

This application re-uses data collected on a similar device. The subject device of this application (Model: XT2527-2, FCC ID: IHDT56AV4) is electrically identical to the reference device (Model: XT2527-1, FCC ID: IHDT56AV5) for the portions of the circuitry corresponding to the data being re-used. Based on their similarity. The FCC Part 22,24,27,90 referencing the original model's result and do spot check, following the FCC KDB484596 D01 Referencing Test Data v02r03.

Compared the device (Model: XT2527-2, FCC ID: IHDT56AV4) with the reference device (Model: XT2527-1, FCC ID: IHDT56AV5), according to the maximum conducted output power comparison result, therefor, band n41 was defined as the worst band and full test the conducted item to demonstrate the compliance, and the data displayed in appendix B.1.

Model difference information

The main difference between FCC ID: IHDT56AV5 and FCC ID: IHDT56AV4 is as below:

- Remove WCDMA B4, LTE B4/12/13/17/25/66 and 5G NR n2/n66.
- Add LTE B20/32/71/38C/41C and 5G NR n8/n20/n71.
- B41/B41C/n77/n78 Enable PC2 by software.
- Add NSA mode for 5G NR n5/n77.

Other difference and all the details of similarity and difference can be found in the confidential documents (Operational Description of Product Equality Declaration).

3. Maximum Effective Radiated (Isotropic) Power and Emission Designator

3.1. NR System

3.1.1. NR Band n41 (2496-2690)

5G NR SA (n41A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
Bandwidth	Frequency Range (MHz)	Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
10MHz	2501.01-2685.00	0.121339	8M59G7D	0.095280	8M57W7D
15MHz	2503.50-2682.48	0.120226	13M6G7D	0.095940	13M6W7D
20MHz	2506.02-2679.99	0.120226	18M2G7D	0.094189	18M2W7D
25MHz	2508.51-2677.50	0.120504	23M2G7D	0.093756	23M2W7D
30MHz	2511.00-2674.98	0.122744	27M8G7D	0.095499	27M9W7D
35MHz	2513.50-2672.50	0.121899	32M9G7D	0.094842	32M9W7D
40MHz	2516.01-2670.00	0.121339	37M7G7D	0.094189	37M9W7D
45MHz	2518.50-2667.48	0.121619	42M4G7D	0.095060	42M4W7D
50MHz	2521.02-2664.99	0.123027	47M5G7D	0.093541	47M5W7D
60MHz	2526.00-2659.98	0.121339	57M9G7D	0.094624	58M0W7D
70MHz	2531.01-2655.00	0.125026	67M6G7D	0.097275	67M6W7D
80MHz	2536.02-2649.99	0.127057	77M5G7D	0.098401	77M7W7D
90MHz	2541.00-2644.98	0.128233	87M4G7D	0.099312	87M6W7D
100MHz	2546.01-2640.00	0.130017	97M5G7D	0.100462	97M5W7D

3.1.2. NR Band n71 (663-698)

5G NR SA (n71A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
Bandwidth	Frequency Range (MHz)	Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
5MHz	665.50-695.50	0.030479	4M50G7D	0.025468	4M48W7D
10MHz	668.00-693.00	0.030339	9M29G7D	0.025410	9M29W7D
15MHz	670.50-690.50	0.030761	14M1G7D	0.025177	14M2W7D
20MHz	673.00-688.00	0.030761	18M9G7D	0.025061	18M9W7D

3.1.3. NR Band n77 (3700-3980)

5G NR SA (n77A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
Bandwidth	Frequency Range (MHz)	Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
10MHz	3705.00-3975.00	0.302691	8M57G7D	0.240436	8M57W7D
15MHz	3707.52-3972.48	0.301995	13M6G7D	0.240991	13M7W7D
20MHz	3710.01-3969.99	0.306196	18M2G7D	0.240991	18M2W7D
25MHz	3712.50-3967.50	0.303389	23M2G7D	0.240991	23M2W7D
30MHz	3715.02-3964.98	0.302691	27M8G7D	0.242103	27M9W7D
40MHz	3720.00-3960.00	0.312608	37M7G7D	0.242661	38M0W7D
50MHz	3725.01-3954.99	0.328852	47M5G7D	0.255859	47M5W7D

60MHz	3730.02-3949.98	0.331894	57M9G7D	0.259418	58M0W7D
70MHz	3735.00-3945.00	0.333426	67M7G7D	0.264850	67M6W7D
80MHz	3740.01-3939.99	0.334195	77M4G7D	0.266073	77M5W7D
90MHz	3745.02-3934.98	0.335738	87M4G7D	0.267301	87M6W7D
100MHz	3750.00-3930.00	0.337287	97M3G7D	0.268534	97M5W7D

3.1.4. NR Band n78 (3700-3800)

5G NR SA (n78A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
Bandwidth	Frequency Range (MHz)	Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
10MHz	3705.00-3795.00	0.274157	8M59G7D	0.213796	8M59W7D
15MHz	3707.52-3792.48	0.267917	13M6G7D	0.213304	13M7W7D
20MHz	3710.01-3789.99	0.273527	18M2G7D	0.215278	18M2W7D
25MHz	3712.50-3787.50	0.276694	23M2G7D	0.215774	23M3W7D
30MHz	3715.02-3784.98	0.278612	27M8G7D	0.216770	27M9W7D
40MHz	3720.00-3780.00	0.280543	37M8G7D	0.216272	37M8W7D
50MHz	3725.01-3774.99	0.279898	47M6G7D	0.219280	47M6W7D
60MHz	3730.02-3769.98	0.279254	57M9G7D	0.218273	58M0W7D
70MHz	3735.00-3765.00	0.287740	67M4G7D	0.223357	67M6W7D
80MHz	3740.01-3759.99	0.287740	77M4G7D	0.222331	77M4W7D
90MHz	3745.02-3754.98	0.258226	87M4G7D	0.198153	87M4W7D
100MHz	3750.00	0.257632	97M5G7D	0.195434	97M3W7D

4. General Information

4.1. General Description of EUT

EUT Description:	Mobile Cellular Phone
Brand Name:	Motorola
Model Name:	XT2527-2
FCC ID:	IHDT56AV4
IMEI Code:	1#: 358674600017073/358674600017081 (Conducted); 2#: 358674600017156/358674600017164 (Conducted);
Hardware Version:	DVT2
Software Version:	V2VN35.50
NR Modulation:	DFT-s-OFDM: ☒Pi/2BPSK; ☒ QPSK; ☒ 16QAM; ☒ 64QAM; ☒ 256QAM; CP-OFDM: ☒ QPSK; ☒ 16QAM; ☒ 64QAM; ☒ 256QAM;
Sample Type:	☒ Portable Device, ☐Module
Antenna Type:	☐External, ☒ Integrated
Antenna Gain:	n5 (824-849): -5.40dBi (Ant0); -4.30dBi (Ant4); n7 (2500-2570): -2.30dBi (Ant1); -2.10dBi (Ant4); n26 (814-849): -5.40dBi (Ant0); -4.30dBi (Ant4); n38 (2570-2620): -2.30dBi (Ant1); -2.10dBi (Ant4); n41 (2496-2690): -2.30dBi (Ant1); -2.10dBi (Ant4); n71 (663-693): -5.70dBi (Ant0); -5.70dBi (Ant4); n77 (3700-3980): -5.10dBi (Ant3); -1.20dBi (Ant5); -4.70dBi (Ant7); -2.20dBi (Ant9); n78 (3700-3800): -5.10dBi (Ant3); -2.40dBi (Ant5); -4.70dBi (Ant7); -2.20dBi (Ant9);

Remark

1, The information above was declared by manufacture. Please refer to the specifications or user manual for more detailed description.

4.2. Test Environment

Relative Humidity:	52.0% - 62.0%	
Atmospheric Pressure:	101.32 KPa	
Temperature:	NT (normal temperature)	25.0 °C – 27.5 °C
Voltage:	LV (Low voltage)	3.40V
	NV (Nominal voltage)	3.81V
	HV (High voltage)	4.50V

4.3. Specification of Accessories

Accessory	Brand Name	Model Name
AC Adapter 1 (US)	Motorola（Salcomp）	MC-331L
AC Adapter 2 (EU)	Motorola（Salcomp）	MC-332L
AC Adapter 3 (UK)	Motorola（Salcomp）	MC-333L
AC Adapter 4 (AU)	Motorola（Salcomp）	MC-335L
AC Adapter 5 (AR)	Motorola（Salcomp）	MC-336L
AC Adapter 6 (BR)	Motorola（Salcomp）	MC-337L
AC Adapter 7 (US)	Motorola（Chenyang）	MC-331L
AC Adapter 8 (EU)	Motorola（Chenyang）	MC-332L
AC Adapter 9 (UK)	Motorola（Chenyang）	MC-333L

AC Adapter 10 (AR)	Motorola（Chenyang）	MC-336L
AC Adapter 11 (BR)	Motorola（Chenyang）	MC-337L
Battery 1	NVT	RA52
Battery 2	SUNWODA	RA52
Earphone 1	Juwei	ZN80400118H001
USB Cable 1	Washin	HX-ZN-34
USB Cable 2	Juwei	JWUB1928-ZN01H

5. Test Configuration of Equipment Under Test

5.1. Test Mode for NR Configuration

Test Case	5G NR	SCS		Bandwidth	Modulation					Channel			RB	
		15KHz	30KHz		Pi/2BPSK	QPSK	16QAM	64QAM	256QAM	LCH	MCH	HCH	1	Full
Effective Isotropic Radiated Power	N41 (2496-2690)	○	●	All Supported BW	●	●	●	●	●	●	●	●	●	●
	N71 (663-693)	●	○	All Supported BW	●	●	●	●	●	●	●	●	●	●
	N77 (3700-3980)	○	●	All Supported BW	●	●	●	●	●	●	●	●	●	●
	N78 (3700-3800)	○	●	All Supported BW	●	●	●	●	●	●	●	●	●	●
Peak-Average Ratio	N41 (2496-2690)	○	●	Highest BW	●	●	○	○	○	●	●	●	○	●
	N71 (663-693)	●	○	Highest BW	●	●	○	○	○	●	●	●	○	●
	N77 (3700-3980)	○	●	Highest BW	●	●	○	○	○	●	●	●	○	●
	N78 (3700-3800)	○	●	Highest BW	●	●	○	○	○	●	●	●	○	●
Modulation Characteristics	N41 (2496-2690)	○	●	Highest BW	●	●	●	●	●	○	●	○	○	●
	N71 (663-693)	●	○	Highest BW	●	●	●	●	●	○	●	○	○	●
	N77 (3700-3980)	○	●	Highest BW	●	●	●	●	●	○	●	○	○	●
	N78 (3700-3800)	○	●	Highest BW	●	●	●	●	●	○	●	○	○	●
Occupied Bandwidth & 26dB Emission Bandwidth	N41 (2496-2690)	○	●	All Supported BW	●	●	●	●	●	○	●	○	○	●
	N71 (663-693)	●	○	All Supported BW	●	●	●	●	●	○	●	○	○	●
	N77 (3700-3980)	○	●	All Supported BW	●	●	●	●	●	○	●	○	○	●
	N78 (3700-3800)	○	●	All Supported BW	●	●	●	●	●	○	●	○	○	●
Conducted Band Edges	N41 (2496-2690)	○	●	All Supported BW	●	●	○	○	○	●	○	●	●	●
	N71 (663-693)	●	○	All Supported BW	●	●	○	○	○	●	○	●	●	●
	N77 (3700-3980)	○	●	All Supported BW	●	●	○	○	○	●	○	●	●	●
	N78 (3700-3800)	○	●	All Supported BW	●	●	○	○	○	●	○	●	●	●
Conducted Spurious Emission	N41 (2496-2690)	○	●	All Supported BW	●	●	○	○	○	●	●	●	●	○
	N71 (663-693)	●	○	All Supported BW	●	●	○	○	○	●	●	●	●	○
	N77 (3700-3980)	○	●	All Supported BW	●	●	○	○	○	●	●	●	●	○
	N78 (3700-3800)	○	●	All Supported BW	●	●	○	○	○	●	●	●	●	○
Frequency Stability	N41 (2496-2690)	○	●	Highest BW	○	●	○	○	○	○	●	○	○	●
	N71 (663-693)	●	○	Highest BW	○	●	○	○	○	○	●	○	○	●
	N77 (3700-3980)	○	●	Highest BW	○	●	○	○	○	○	●	○	○	●
	N78 (3700-3800)	○	●	Highest BW	○	●	○	○	○	○	●	○	○	●

Remark:

1, the mark "●" means this configuration was chosen for testing, mark "○" means not selected, and the

mark "✘" means not applicable.

2, All Supported BW means all supported bandwidth for selected SCS configuration.

5.2. Test Frequencies

4.2.1 5G NR System

5.2.1.1. NR Band n41 (2496-2690)

5.2.1.1.1. SCS=30KHz

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
10MHz	500202	2501.01	518598	2592.99	537000	2685.00
15MHz	500700	2503.50	518598	2592.99	536496	2682.48
20MHz	501204	2506.02	518598	2592.99	535998	2679.99
25MHz	501700	2508.50	518598	2592.99	535500	2677.50
30MHz	502200	2511.00	518598	2592.99	534996	2674.98
35MHz	502700	2513.50	518598	2592.99	534500	2672.50
40MHz	503202	2516.01	518598	2592.99	534000	2670.00
45MHz	503700	2518.50	518598	2592.99	533500	2667.50
50MHz	504204	2521.02	518598	2592.99	532998	2664.99
60MHz	505200	2526.00	518598	2592.99	531996	2659.98
70MHz	506202	2531.01	518598	2592.99	531000	2655.00
80MHz	507204	2536.02	518598	2592.99	529998	2649.99
90MHz	508200	2541.00	518598	2592.99	528996	2644.98
100MHz	509202	2546.01	518598	2592.99	528000	2640.00

5.2.1.2. NR Band n71 (663-693)

5.2.1.2.1. SCS=15KHz

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
5MHz	133100	665.50	136100	680.50	139100	695.50
10MHz	133600	668.00	136100	680.50	138600	693.00
15MHz	134100	670.50	136100	680.50	138100	690.50
20MHz	134600	673.00	136100	680.50	137600	688.00

5.2.1.3. NR Band N77 (3700-3980)

5.2.1.3.1. SCS=30KHz

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
10MHz	741000	3705.00	656000	3840.00	665000	3975.00
15MHz	741504	3707.52	656000	3840.00	664832	3972.48
20MHz	647334	3710.01	656000	3840.00	664666	3969.99
25MHz	742500	3712.50	656000	3840.00	664500	3967.50
30MHz	647668	3715.02	656000	3840.00	664332	3964.98
40MHz	648000	3720.00	656000	3840.00	664000	3960.00
50MHz	648334	3725.01	656000	3840.00	663666	3954.99
60MHz	648668	3730.02	656000	3840.00	663332	3949.98
70MHz	649000	3735.00	656000	3840.00	663000	3945.00
80MHz	649334	3740.01	656000	3840.00	662666	3939.99

90MHz	649668	3745.02	656000	3840.00	662332	3934.98
100MHz	650000	3750.00	656000	3840.00	662000	3930.00

5.2.1.4. NR Band N78 (3700-3800)

5.2.1.4.1. SCS=30KHz

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
10MHz	741000	3705.00	650000	3750.00	653000	3795.00
15MHz	741504	3707.52	650000	3750.00	652832	3792.48
20MHz	647334	3710.01	650000	3750.00	652666	3789.99
25MHz	742500	3712.50	650000	3750.00	652500	3787.50
30MHz	647668	3715.02	650000	3750.00	652332	3784.98
40MHz	648000	3720.00	650000	3750.00	652000	3780.00
50MHz	648334	3725.01	650000	3750.00	651666	3774.99
60MHz	648668	3730.02	650000	3750.00	651332	3769.98
70MHz	649000	3735.00	650000	3750.00	651000	3765.00
80MHz	649334	3740.01	650000	3750.00	650666	3759.99
90MHz	649668	3745.02	650000	3750.00	650332	3754.98
100MHz	650000	3750.00	650000	3750.00	650000	3750.00

6. Description of Tests

6.1. Conducted Output Power Measurement

6.1.1. Description of Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT, Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

6.1.2. Test Procedures

1， The testing follows ANSI C63.26 Section 5.2.
2， The transmitter output port was connected to the system simulator.
3， Set EUT at maximum power through the system simulator.
4， Select lowest, Middle, Highest channels for each band and each modulation.
5， Record the reading power from the system simulator.

6.2. Effective (Isotropic) Radiated Power

Measurement Procedure: ANSI C63.26

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

EIRP (dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB

6.3. Peak-to-Average Ratio Measurement

6.3.1. Description of PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis, A CCDF curve depicts the probability of peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

6.3.2. Test Procedures

1， The testing follows ANSI C63.26 Section 5.2.3.4(CCDF)
2， Refer to instrument's analyser instruction manual for details on how to use the power statistics/CCDF function.
3， Centre Frequency = Carrier centre frequency.
4， Set resolution bandwidth ≥ signal's occupied bandwidth.
5， Set the number of counts to a value that stabilizes the measured CCDF curve.
6， Set the measurement interval as follows:
   1) for continuous transmissions (>98% duty cycle), set to 1ms.
   2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
7， Record the maximum PAR level associated with a probability of 0.1%.

6.3.3. Alternate procedure for PAR

Measurement Procedure: 5.2.6 of ANSI C63.26

Some regulatory requirements specify a PAR limit when the output power limits are specified in terms of average power. If it becomes necessary to provide measurement data to demonstrate compliance to a PAR limit, then the appropriate procedure from those provided in 5.2.3 shall be utilized to determine the peak power (or peak

PSD) and the appropriate procedure from those provided in 5.2.4 shall be used to determine
the average power (or average PSD). The data from these measurements is then used in Equation (2) to determine the PAR of a narrowband CW-like signal. See 5.2.3.4 for guidance on determining the PAR of a broadband noise-like signal.
PAR (dB) = PPk (dBm or dBW) − PAvg (dBm or dBW)
where
PAR peak-to-average power ratio, in dB
PPk measured peak power or peak PSD level, in dBm or dBW
PAvg measured average power or average PSD level, in dBm or dBW

6.4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

6.4.1. Description of 99% Occupied Bandwidth & 26dB Emission Bandwidth Measurement

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyser shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

6.4.2. Test Procedures

1, The testing follows ANSI C63.26 Section 5.4
2, The signal analyzer's automatic measurement capability was used to perform the 99% occupied bandwidth and the 26dB emission bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
3, RBW ⩾1% - 5% of the expected OBW.
4, VBW ⩾3 * RBW
5, Detector=Peak
6, Trace Mode= Max Hold.
7, Sweep Time=Auto
8, The trace was allowed to stabilize.
9, If necessary, steps 2-7 were repeated after changing the RBW such that it would be within 1%-5% of the 99% occupied bandwidth observed in step 7.

6.5. Conducted Band Edge Measurement

6.5.1. Description of Conducted Band Edge Measurement

The transmitter output was connected to a calibrated coaxial cable, attenuator and spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emissions are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyser was set at thrice the resolution bandwidth. Detector Mode was set to peak or

peak hold power.

6.5.2. Test Procedures

1， The testing follows ANSI C63.26 Section 5.7
2， Start and stop frequency were set such that the band edge would be placed in the centre of the spectrum analyzer screen.
3， Span was set large enough to capture all out of band emissions near the band edge.
4， RBW ⩾1% of the emission bandwidth (2% of the emission bandwidth for n7/n38/n41 except when 1MHz band is 2495-2496MHz);
5， VBW ⩾3 * RBW
6， Detector=RMS
7， Trace Mode=Trace Average for continuous emissions, Max Hold for pulse emissions.
8， Sweep Points ⩾2 x Span/RBW
9， Sweep Time = Auto
10， The trace was allowed to stabilize.

6.6. Emission Mask

6.6.1. Description of Emission Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90 .691.(a):

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116Log1o(f/6.1) decibels or 50 + 10 Log1o(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the centre of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log1(P)decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the centre of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

<Emission Mask B>

For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.

(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

6.6.2. Test Procedures

1, The EUT was connected to spectrum analyzer and base station via power divider.
2, The emissions mask of low and high channels for the highest RF powers were measured.
3, The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and the RBW correction factor 10log (1% of OBW/measured RBW)(dB) was compensated, if required.

6.7. Conducted Spurious Emission Measurement

6.7.1. Description of Conducted Spurious Emission Measurement

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyser. The spectrum is scanned from 9KHz up to a frequency including its 10th harmonic or 40GHz, which is lower.

6.7.2. Test Procedures

1， The testing follows ANSI C63.26 Section 5.7
2， RBW ⩾100KHz for emissions below 1GHz,1MHz for emissions above 1GHz.
3， VBW ⩾3 * RBW
4， Detector = RMS
5， Trace Mode = Average.
6， Sweep Points ⩾2 * Span/RBW
7， Sweep Time = Auto
8， The trace was allowed to stabilize.

6.8. Frequency Stability Measurement

6.8.1. Description of Frequency Stability Measurement

The Frequency Stability should be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emissions stays within the authorized frequency block

6.8.2. Measurement Procedure for Temperature Variation

1, The testing follows ANSI C63.26 section 5.6.4.
2, The EUT was set up in the thermal chamber and connected with the system simulator.
3, With power off, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4， With power off, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum change in frequency was recorded within one minute.

6.8.3. Measurement Procedure for Voltage Variation

1, The testing follows ANSI C63.26 section 5.6.5.
2, The EUT was placed in a thermal chamber at 20±5°C and connected with the system simulator.
3, The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4， For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5， The variation in frequency was measured for the worst case.

7. List of Measuring Equipment

Equipment	Model	Manufacture	Device No.	Cal Date	Cal Due
Radio Communication Analyzer	MT8000A	Anritsu	6272427164	2024-11-15	2025-11-14
	MT8000A	Anritsu	6272478367	2024-07-03	2025-07-02
	MT8821C	Anritsu	6272374630	2024-11-15	2025-11-14
Spectrum Analyzer (50Hz-40GHz)	FSV	R&S	101046	2024-11-15	2025-11-14
Spectrum Analyzer (50Hz-40GHz)	FSV	R&S	101334	2024-11-15	2025-11-14
Power Supply	2036	Keithley	4058748	2024-11-15	2025-11-14
Temperature Chamber	C/64/40/3	Weiss	56246017780020	2025-03-24	2026-03-25

Power Divider	-	WOKEN	0120A04051801O	NCR
Power Divider	-	WOKEN	0120A02051801M	NCR

Remark:

1, For equipment listed above that has a calibration date or calibration due date that falls within the test date range, and the equipment was used after calibrate date and before calibrate due date.

2, “NCR” means no calibration required.

8. Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26. All the measurement uncertainties value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be directly to specified limit to determine compliance.

8.1. Uncertainty of Conducted Measurement

Contribution	Expanded Uncertainty
Conducted Power	± 1.09 dB
Peak-to-Average Ratio	± 2.28 dB
Channel Bandwidth	± 0.15% MHz
Conducted Emission (f <1GHz)	± 2.23 dB
Conducted Emission (1GHz < f <18GHz)	± 2.24 dB
Conducted Emission (18GHz < f <40GHz)	± 2.11 dB
Frequency	± 0.02 KHz

9. Appendixes

Appendix B.1	NR Band n41A (2496-2690)
Appendix B.2	NR Band n71A (663-693)
Appendix B.3	NR Band n77A (3700-3980)
Appendix B.4	NR Band n78A (3700-3800)

The End

Appendix
for
n41A
(2496-2690)

Catalogue

1. EFFECTIVE ISOTROPIC RADIATED POWER 3

1.1. TEST RESULTS @ ANT1 (ANTENNA GAIN=-2.30DBI) 3

2. PEAK-TO-AVERAGE RATIO 7

2.1. TEST RESULTS 7

2.2. TEST PLOTS FOR SCS=30KHZ 7

3. MODULATION CHARACTERISTICS 8

3.1. TEST PLOTS FOR SCS=30KHZ 8

4. 99% OCCUPIED BANDWIDTH & 26DB EMISSION BANDWIDTH 10

4.1. TEST RESULTS 10

4.2. TEST PLOTS FOR SCS=30KHZ 12

5. CONDUCTED BAND EDGES 26

5.1. TEST PLOTS FOR SCS=30KHZ 26

6. CONDUCTED SPURIOUS EMISSION 45

6.1. TEST PLOTS FOR SCS=30KHZ 45

7. FREQUENCY STABILITY 57

7.1. TEST RESULTS 57

1. Effective Isotropic Radiated Power

1.1. Test Results @ Ant1 (Antenna Gain=-2.30dBi)

SCS	Bandwidth	Channel	Modulation	Conducted Result (dBm)			Max EIRP (dBm)	Limit (dBm)	Verdict
				Inner_1RB_Left	Inner_1RB_Right	Inner_Full			
30KHz	10MHz	LCH	DFT-Pi2BPSK	23.08	23.05	23.14	20.84	33.00	Pass
30KHz	10MHz	LCH	DFT-QPSK	23.08	23.04	23.11	20.81	33.00	Pass
30KHz	10MHz	LCH	DFT-16QAM	22.06	21.91	22.09	19.79	33.00	Pass
30KHz	10MHz	LCH	DFT-64QAM	20.58	20.59	20.74	18.44	33.00	Pass
30KHz	10MHz	LCH	DFT-256QAM	18.58	18.55	18.84	16.54	33.00	Pass
30KHz	10MHz	LCH	CP-QPSK	21.61	21.62	21.44	19.32	33.00	Pass
30KHz	10MHz	MCH	DFT-Pi2BPSK	22.71	22.82	22.70	20.52	33.00	Pass
30KHz	10MHz	MCH	DFT-QPSK	22.72	22.82	22.64	20.52	33.00	Pass
30KHz	10MHz	MCH	DFT-16QAM	21.77	21.86	21.74	19.56	33.00	Pass
30KHz	10MHz	MCH	DFT-64QAM	20.19	20.35	20.31	18.05	33.00	Pass
30KHz	10MHz	MCH	DFT-256QAM	18.22	18.27	18.38	16.08	33.00	Pass
30KHz	10MHz	MCH	CP-QPSK	21.22	21.23	21.21	18.93	33.00	Pass
30KHz	10MHz	HCH	DFT-Pi2BPSK	22.75	22.83	22.81	20.53	33.00	Pass
30KHz	10MHz	HCH	DFT-QPSK	22.74	22.85	22.80	20.55	33.00	Pass
30KHz	10MHz	HCH	DFT-16QAM	21.71	22.00	21.88	19.70	33.00	Pass
30KHz	10MHz	HCH	DFT-64QAM	20.33	20.43	20.49	18.19	33.00	Pass
30KHz	10MHz	HCH	DFT-256QAM	18.25	18.37	18.59	16.29	33.00	Pass
30KHz	10MHz	HCH	CP-QPSK	21.25	21.33	21.18	19.03	33.00	Pass
30KHz	15MHz	LCH	DFT-Pi2BPSK	23.02	23.08	23.07	20.78	33.00	Pass
30KHz	15MHz	LCH	DFT-QPSK	23.03	23.04	23.10	20.80	33.00	Pass
30KHz	15MHz	LCH	DFT-16QAM	21.90	21.92	22.12	19.82	33.00	Pass
30KHz	15MHz	LCH	DFT-64QAM	20.67	20.67	20.63	18.37	33.00	Pass
30KHz	15MHz	LCH	DFT-256QAM	18.61	18.62	18.64	16.34	33.00	Pass
30KHz	15MHz	LCH	CP-QPSK	21.69	21.54	21.53	19.39	33.00	Pass
30KHz	15MHz	MCH	DFT-Pi2BPSK	22.66	22.76	22.73	20.46	33.00	Pass
30KHz	15MHz	MCH	DFT-QPSK	22.68	22.76	22.76	20.46	33.00	Pass
30KHz	15MHz	MCH	DFT-16QAM	21.55	21.66	21.72	19.42	33.00	Pass
30KHz	15MHz	MCH	DFT-64QAM	20.21	20.34	20.28	18.04	33.00	Pass
30KHz	15MHz	MCH	DFT-256QAM	18.25	18.26	18.24	15.96	33.00	Pass
30KHz	15MHz	MCH	CP-QPSK	21.07	21.24	21.20	18.94	33.00	Pass
30KHz	15MHz	HCH	DFT-Pi2BPSK	22.63	22.75	22.77	20.47	33.00	Pass
30KHz	15MHz	HCH	DFT-QPSK	22.59	22.79	22.79	20.49	33.00	Pass
30KHz	15MHz	HCH	DFT-16QAM	21.48	21.66	21.77	19.47	33.00	Pass
30KHz	15MHz	HCH	DFT-64QAM	20.23	20.50	20.42	18.20	33.00	Pass
30KHz	15MHz	HCH	DFT-256QAM	18.14	18.35	18.38	16.08	33.00	Pass
30KHz	15MHz	HCH	CP-QPSK	21.12	21.29	21.16	18.99	33.00	Pass
30KHz	20MHz	LCH	DFT-Pi2BPSK	23.10	22.93	22.99	20.80	33.00	Pass
30KHz	20MHz	LCH	DFT-QPSK	23.00	22.88	23.07	20.77	33.00	Pass
30KHz	20MHz	LCH	DFT-16QAM	21.80	21.78	22.04	19.74	33.00	Pass
30KHz	20MHz	LCH	DFT-64QAM	20.60	20.50	20.67	18.37	33.00	Pass
30KHz	20MHz	LCH	DFT-256QAM	18.56	18.55	18.72	16.42	33.00	Pass
30KHz	20MHz	LCH	CP-QPSK	21.66	21.50	21.58	19.36	33.00	Pass
30KHz	20MHz	MCH	DFT-Pi2BPSK	22.71	22.81	22.74	20.51	33.00	Pass
30KHz	20MHz	MCH	DFT-QPSK	22.65	22.83	22.74	20.53	33.00	Pass
30KHz	20MHz	MCH	DFT-16QAM	21.54	21.73	21.74	19.44	33.00	Pass
30KHz	20MHz	MCH	DFT-64QAM	20.21	20.36	20.29	18.06	33.00	Pass
30KHz	20MHz	MCH	DFT-256QAM	18.22	18.36	18.27	16.06	33.00	Pass
30KHz	20MHz	MCH	CP-QPSK	21.19	21.33	21.25	19.03	33.00	Pass
30KHz	20MHz	HCH	DFT-Pi2BPSK	22.57	22.87	22.71	20.57	33.00	Pass
30KHz	20MHz	HCH	DFT-QPSK	22.59	22.85	22.80	20.55	33.00	Pass
30KHz	20MHz	HCH	DFT-16QAM	21.53	21.73	21.73	19.43	33.00	Pass
30KHz	20MHz	HCH	DFT-64QAM	20.18	20.46	20.34	18.16	33.00	Pass
30KHz	20MHz	HCH	DFT-256QAM	18.08	18.42	18.32	16.12	33.00	Pass
30KHz	20MHz	HCH	CP-QPSK	20.99	21.31	21.26	19.01	33.00	Pass
30KHz	25MHz	LCH	DFT-Pi2BPSK	23.11	22.95	23.03	20.81	33.00	Pass
30KHz	25MHz	LCH	DFT-QPSK	23.05	22.91	23.01	20.75	33.00	Pass
30KHz	25MHz	LCH	DFT-16QAM	21.87	21.72	22.02	19.72	33.00	Pass
30KHz	25MHz	LCH	DFT-64QAM	20.64	20.50	20.60	18.34	33.00	Pass
30KHz	25MHz	LCH	DFT-256QAM	18.67	18.52	18.61	16.37	33.00	Pass

30KHz	25MHz	LCH	CP-QPSK	21.71	21.44	21.59	19.41	33.00	Pass
30KHz	25MHz	MCH	DFT-Pi2BPSK	22.69	22.84	22.74	20.54	33.00	Pass
30KHz	25MHz	MCH	DFT-QPSK	22.69	22.84	22.79	20.54	33.00	Pass
30KHz	25MHz	MCH	DFT-16QAM	21.56	21.74	21.79	19.49	33.00	Pass
30KHz	25MHz	MCH	DFT-64QAM	20.27	20.39	20.31	18.09	33.00	Pass
30KHz	25MHz	MCH	DFT-256QAM	18.21	18.37	18.32	16.07	33.00	Pass
30KHz	25MHz	MCH	CP-QPSK	21.19	21.35	21.30	19.05	33.00	Pass
30KHz	25MHz	HCH	DFT-Pi2BPSK	22.55	22.82	22.78	20.52	33.00	Pass
30KHz	25MHz	HCH	DFT-QPSK	22.55	22.85	22.78	20.55	33.00	Pass
30KHz	25MHz	HCH	DFT-16QAM	21.40	21.76	21.83	19.53	33.00	Pass
30KHz	25MHz	HCH	DFT-64QAM	20.14	20.49	20.39	18.19	33.00	Pass
30KHz	25MHz	HCH	DFT-256QAM	18.11	18.51	18.34	16.21	33.00	Pass
30KHz	25MHz	HCH	CP-QPSK	21.11	21.35	21.31	19.05	33.00	Pass
30KHz	30MHz	LCH	DFT-Pi2BPSK	23.19	22.96	23.02	20.89	33.00	Pass
30KHz	30MHz	LCH	DFT-QPSK	23.02	22.92	23.05	20.75	33.00	Pass
30KHz	30MHz	LCH	DFT-16QAM	22.01	21.82	22.10	19.80	33.00	Pass
30KHz	30MHz	LCH	DFT-64QAM	20.72	20.58	20.63	18.42	33.00	Pass
30KHz	30MHz	LCH	DFT-256QAM	18.68	18.50	18.60	16.38	33.00	Pass
30KHz	30MHz	LCH	CP-QPSK	21.62	21.52	21.58	19.32	33.00	Pass
30KHz	30MHz	MCH	DFT-Pi2BPSK	22.74	22.77	22.76	20.47	33.00	Pass
30KHz	30MHz	MCH	DFT-QPSK	22.73	22.81	22.77	20.51	33.00	Pass
30KHz	30MHz	MCH	DFT-16QAM	21.65	21.73	21.82	19.52	33.00	Pass
30KHz	30MHz	MCH	DFT-64QAM	20.29	20.40	20.32	18.10	33.00	Pass
30KHz	30MHz	MCH	DFT-256QAM	18.27	18.31	18.31	16.01	33.00	Pass
30KHz	30MHz	MCH	CP-QPSK	21.13	21.21	21.28	18.98	33.00	Pass
30KHz	30MHz	HCH	DFT-Pi2BPSK	22.46	22.85	22.74	20.55	33.00	Pass
30KHz	30MHz	HCH	DFT-QPSK	22.50	22.84	22.72	20.54	33.00	Pass
30KHz	30MHz	HCH	DFT-16QAM	21.43	21.81	21.78	19.51	33.00	Pass
30KHz	30MHz	HCH	DFT-64QAM	20.05	20.52	20.30	18.22	33.00	Pass
30KHz	30MHz	HCH	DFT-256QAM	18.01	18.42	18.29	16.12	33.00	Pass
30KHz	30MHz	HCH	CP-QPSK	20.94	21.41	21.27	19.11	33.00	Pass
30KHz	35MHz	LCH	DFT-Pi2BPSK	23.16	22.97	23.03	20.86	33.00	Pass
30KHz	35MHz	LCH	DFT-QPSK	23.09	22.96	23.02	20.79	33.00	Pass
30KHz	35MHz	LCH	DFT-16QAM	21.96	21.82	22.07	19.77	33.00	Pass
30KHz	35MHz	LCH	DFT-64QAM	20.72	20.57	20.55	18.42	33.00	Pass
30KHz	35MHz	LCH	DFT-256QAM	18.68	18.56	18.56	16.38	33.00	Pass
30KHz	35MHz	LCH	CP-QPSK	21.72	21.56	21.50	19.42	33.00	Pass
30KHz	35MHz	MCH	DFT-Pi2BPSK	22.70	22.81	22.75	20.51	33.00	Pass
30KHz	35MHz	MCH	DFT-QPSK	22.72	22.82	22.76	20.52	33.00	Pass
30KHz	35MHz	MCH	DFT-16QAM	21.60	21.76	21.83	19.53	33.00	Pass
30KHz	35MHz	MCH	DFT-64QAM	20.32	20.44	20.31	18.14	33.00	Pass
30KHz	35MHz	MCH	DFT-256QAM	18.30	18.44	18.34	16.14	33.00	Pass
30KHz	35MHz	MCH	CP-QPSK	21.14	21.28	21.26	18.98	33.00	Pass
30KHz	35MHz	HCH	DFT-Pi2BPSK	22.49	22.91	22.69	20.61	33.00	Pass
30KHz	35MHz	HCH	DFT-QPSK	22.49	22.89	22.71	20.59	33.00	Pass
30KHz	35MHz	HCH	DFT-16QAM	21.45	21.80	21.77	19.50	33.00	Pass
30KHz	35MHz	HCH	DFT-64QAM	20.08	20.54	20.22	18.24	33.00	Pass
30KHz	35MHz	HCH	DFT-256QAM	18.05	18.51	18.29	16.21	33.00	Pass
30KHz	35MHz	HCH	CP-QPSK	20.94	21.35	21.20	19.05	33.00	Pass
30KHz	40MHz	LCH	DFT-Pi2BPSK	23.14	22.97	23.00	20.84	33.00	Pass
30KHz	40MHz	LCH	DFT-QPSK	23.04	22.93	23.02	20.74	33.00	Pass
30KHz	40MHz	LCH	DFT-16QAM	21.86	21.80	22.04	19.74	33.00	Pass
30KHz	40MHz	LCH	DFT-64QAM	20.68	20.54	20.53	18.38	33.00	Pass
30KHz	40MHz	LCH	DFT-256QAM	18.67	18.52	18.58	16.37	33.00	Pass
30KHz	40MHz	LCH	CP-QPSK	21.69	21.53	21.43	19.39	33.00	Pass
30KHz	40MHz	MCH	DFT-Pi2BPSK	22.75	22.81	22.78	20.51	33.00	Pass
30KHz	40MHz	MCH	DFT-QPSK	22.75	22.85	22.76	20.55	33.00	Pass
30KHz	40MHz	MCH	DFT-16QAM	21.65	21.79	21.79	19.49	33.00	Pass
30KHz	40MHz	MCH	DFT-64QAM	20.35	20.40	20.32	18.10	33.00	Pass
30KHz	40MHz	MCH	DFT-256QAM	18.34	18.42	18.35	16.12	33.00	Pass
30KHz	40MHz	MCH	CP-QPSK	21.17	21.30	21.27	19.00	33.00	Pass
30KHz	40MHz	HCH	DFT-Pi2BPSK	22.54	22.96	22.72	20.66	33.00	Pass
30KHz	40MHz	HCH	DFT-QPSK	22.52	22.91	22.68	20.61	33.00	Pass
30KHz	40MHz	HCH	DFT-16QAM	21.37	21.90	21.72	19.60	33.00	Pass

30KHz	40MHz	HCH	DFT-64QAM	20.15	20.61	20.26	18.31	33.00	Pass
30KHz	40MHz	HCH	DFT-256QAM	18.08	18.56	18.26	16.26	33.00	Pass
30KHz	40MHz	HCH	CP-QPSK	20.98	21.46	21.20	19.16	33.00	Pass
30KHz	45MHz	LCH	DFT-Pi2BPSK	23.15	23.00	23.03	20.85	33.00	Pass
30KHz	45MHz	LCH	DFT-QPSK	23.07	22.98	23.03	20.77	33.00	Pass
30KHz	45MHz	LCH	DFT-16QAM	22.01	21.86	22.08	19.78	33.00	Pass
30KHz	45MHz	LCH	DFT-64QAM	20.68	20.58	20.60	18.38	33.00	Pass
30KHz	45MHz	LCH	DFT-256QAM	18.70	18.59	18.57	16.40	33.00	Pass
30KHz	45MHz	LCH	CP-QPSK	21.81	21.41	21.47	19.51	33.00	Pass
30KHz	45MHz	MCH	DFT-Pi2BPSK	22.76	22.93	22.79	20.63	33.00	Pass
30KHz	45MHz	MCH	DFT-QPSK	22.77	22.92	22.78	20.62	33.00	Pass
30KHz	45MHz	MCH	DFT-16QAM	21.66	21.74	21.81	19.51	33.00	Pass
30KHz	45MHz	MCH	DFT-64QAM	20.32	20.39	20.35	18.09	33.00	Pass
30KHz	45MHz	MCH	DFT-256QAM	18.33	18.41	18.37	16.11	33.00	Pass
30KHz	45MHz	MCH	CP-QPSK	21.32	21.38	21.29	19.08	33.00	Pass
30KHz	45MHz	HCH	DFT-Pi2BPSK	22.55	22.95	22.69	20.65	33.00	Pass
30KHz	45MHz	HCH	DFT-QPSK	22.57	22.99	22.70	20.69	33.00	Pass
30KHz	45MHz	HCH	DFT-16QAM	21.48	21.82	21.74	19.52	33.00	Pass
30KHz	45MHz	HCH	DFT-64QAM	20.26	20.66	20.29	18.36	33.00	Pass
30KHz	45MHz	HCH	DFT-256QAM	18.12	18.58	18.31	16.28	33.00	Pass
30KHz	45MHz	HCH	CP-QPSK	21.08	21.41	21.15	19.11	33.00	Pass
30KHz	50MHz	LCH	DFT-Pi2BPSK	23.20	23.09	23.02	20.90	33.00	Pass
30KHz	50MHz	LCH	DFT-QPSK	23.06	23.02	23.03	20.76	33.00	Pass
30KHz	50MHz	LCH	DFT-16QAM	21.94	21.93	22.01	19.71	33.00	Pass
30KHz	50MHz	LCH	DFT-64QAM	20.65	20.66	20.57	18.36	33.00	Pass
30KHz	50MHz	LCH	DFT-256QAM	18.70	18.62	18.57	16.40	33.00	Pass
30KHz	50MHz	LCH	CP-QPSK	21.67	21.53	21.44	19.37	33.00	Pass
30KHz	50MHz	MCH	DFT-Pi2BPSK	22.81	22.98	22.81	20.68	33.00	Pass
30KHz	50MHz	MCH	DFT-QPSK	22.81	22.94	22.81	20.64	33.00	Pass
30KHz	50MHz	MCH	DFT-16QAM	21.64	21.87	21.80	19.57	33.00	Pass
30KHz	50MHz	MCH	DFT-64QAM	20.41	20.52	20.36	18.22	33.00	Pass
30KHz	50MHz	MCH	DFT-256QAM	18.36	18.47	18.39	16.17	33.00	Pass
30KHz	50MHz	MCH	CP-QPSK	21.33	21.44	21.27	19.14	33.00	Pass
30KHz	50MHz	HCH	DFT-Pi2BPSK	22.44	22.95	22.70	20.65	33.00	Pass
30KHz	50MHz	HCH	DFT-QPSK	22.48	22.97	22.72	20.67	33.00	Pass
30KHz	50MHz	HCH	DFT-16QAM	21.33	21.89	21.68	19.59	33.00	Pass
30KHz	50MHz	HCH	DFT-64QAM	20.04	20.57	20.27	18.27	33.00	Pass
30KHz	50MHz	HCH	DFT-256QAM	17.96	18.55	18.28	16.25	33.00	Pass
30KHz	50MHz	HCH	CP-QPSK	20.97	21.45	21.14	19.15	33.00	Pass
30KHz	60MHz	LCH	DFT-Pi2BPSK	23.14	23.03	22.99	20.84	33.00	Pass
30KHz	60MHz	LCH	DFT-QPSK	23.01	22.99	22.99	20.71	33.00	Pass
30KHz	60MHz	LCH	DFT-16QAM	21.89	21.92	22.06	19.76	33.00	Pass
30KHz	60MHz	LCH	DFT-64QAM	20.69	20.67	20.55	18.39	33.00	Pass
30KHz	60MHz	LCH	DFT-256QAM	18.65	18.60	18.58	16.35	33.00	Pass
30KHz	60MHz	LCH	CP-QPSK	21.72	21.49	21.46	19.42	33.00	Pass
30KHz	60MHz	MCH	DFT-Pi2BPSK	22.86	22.96	22.83	20.66	33.00	Pass
30KHz	60MHz	MCH	DFT-QPSK	22.80	22.96	22.80	20.66	33.00	Pass
30KHz	60MHz	MCH	DFT-16QAM	21.73	21.92	21.84	19.62	33.00	Pass
30KHz	60MHz	MCH	DFT-64QAM	20.41	20.56	20.39	18.26	33.00	Pass
30KHz	60MHz	MCH	DFT-256QAM	18.39	18.50	18.38	16.20	33.00	Pass
30KHz	60MHz	MCH	CP-QPSK	21.29	21.45	21.29	19.15	33.00	Pass
30KHz	60MHz	HCH	DFT-Pi2BPSK	22.44	22.99	22.67	20.69	33.00	Pass
30KHz	60MHz	HCH	DFT-QPSK	22.43	22.98	22.65	20.68	33.00	Pass
30KHz	60MHz	HCH	DFT-16QAM	21.39	21.97	21.72	19.67	33.00	Pass
30KHz	60MHz	HCH	DFT-64QAM	20.05	20.65	20.31	18.35	33.00	Pass
30KHz	60MHz	HCH	DFT-256QAM	18.08	18.60	18.21	16.30	33.00	Pass
30KHz	60MHz	HCH	CP-QPSK	20.96	21.46	21.17	19.16	33.00	Pass
30KHz	70MHz	LCH	DFT-Pi2BPSK	23.21	23.27	23.09	20.97	33.00	Pass
30KHz	70MHz	LCH	DFT-QPSK	23.15	23.24	23.07	20.94	33.00	Pass
30KHz	70MHz	LCH	DFT-16QAM	22.01	22.18	22.10	19.88	33.00	Pass
30KHz	70MHz	LCH	DFT-64QAM	20.71	20.80	20.58	18.50	33.00	Pass
30KHz	70MHz	LCH	DFT-256QAM	18.69	18.77	18.64	16.47	33.00	Pass
30KHz	70MHz	LCH	CP-QPSK	21.86	21.71	21.56	19.56	33.00	Pass
30KHz	70MHz	MCH	DFT-Pi2BPSK	22.98	23.16	22.93	20.86	33.00	Pass

30KHz	70MHz	MCH	DFT-QPSK	22.95	23.17	22.92	20.87	33.00	Pass
30KHz	70MHz	MCH	DFT-16QAM	21.86	22.08	21.96	19.78	33.00	Pass
30KHz	70MHz	MCH	DFT-64QAM	20.56	20.78	20.49	18.48	33.00	Pass
30KHz	70MHz	MCH	DFT-256QAM	18.47	18.72	18.49	16.42	33.00	Pass
30KHz	70MHz	MCH	CP-QPSK	21.36	21.64	21.46	19.34	33.00	Pass
30KHz	70MHz	HCH	DFT-Pi2BPSK	22.63	23.25	22.82	20.95	33.00	Pass
30KHz	70MHz	HCH	DFT-QPSK	22.67	23.25	22.83	20.95	33.00	Pass
30KHz	70MHz	HCH	DFT-16QAM	21.58	22.17	21.86	19.87	33.00	Pass
30KHz	70MHz	HCH	DFT-64QAM	20.21	20.79	20.38	18.49	33.00	Pass
30KHz	70MHz	HCH	DFT-256QAM	18.17	18.81	18.43	16.51	33.00	Pass
30KHz	70MHz	HCH	CP-QPSK	21.05	21.79	21.36	19.49	33.00	Pass
30KHz	80MHz	LCH	DFT-Pi2BPSK	23.28	23.11	23.11	20.98	33.00	Pass
30KHz	80MHz	LCH	DFT-QPSK	23.17	23.11	23.09	20.87	33.00	Pass
30KHz	80MHz	LCH	DFT-16QAM	22.05	22.03	22.14	19.84	33.00	Pass
30KHz	80MHz	LCH	DFT-64QAM	20.78	20.73	20.65	18.48	33.00	Pass
30KHz	80MHz	LCH	DFT-256QAM	18.75	18.69	18.68	16.45	33.00	Pass
30KHz	80MHz	LCH	CP-QPSK	21.77	21.63	21.60	19.47	33.00	Pass
30KHz	80MHz	MCH	DFT-Pi2BPSK	22.97	23.18	22.95	20.88	33.00	Pass
30KHz	80MHz	MCH	DFT-QPSK	22.95	23.22	22.90	20.92	33.00	Pass
30KHz	80MHz	MCH	DFT-16QAM	21.84	22.01	21.96	19.71	33.00	Pass
30KHz	80MHz	MCH	DFT-64QAM	20.52	20.79	20.48	18.49	33.00	Pass
30KHz	80MHz	MCH	DFT-256QAM	18.52	18.82	18.52	16.52	33.00	Pass
30KHz	80MHz	MCH	CP-QPSK	21.46	21.65	21.42	19.35	33.00	Pass
30KHz	80MHz	HCH	DFT-Pi2BPSK	22.59	23.34	22.84	21.04	33.00	Pass
30KHz	80MHz	HCH	DFT-QPSK	22.61	23.31	22.82	21.01	33.00	Pass
30KHz	80MHz	HCH	DFT-16QAM	21.53	22.23	21.87	19.93	33.00	Pass
30KHz	80MHz	HCH	DFT-64QAM	20.18	20.95	20.40	18.65	33.00	Pass
30KHz	80MHz	HCH	DFT-256QAM	18.14	18.92	18.43	16.62	33.00	Pass
30KHz	80MHz	HCH	CP-QPSK	21.11	21.82	21.31	19.52	33.00	Pass
30KHz	90MHz	LCH	DFT-Pi2BPSK	23.30	23.13	23.06	21.00	33.00	Pass
30KHz	90MHz	LCH	DFT-QPSK	23.17	23.11	23.12	20.87	33.00	Pass
30KHz	90MHz	LCH	DFT-16QAM	21.93	21.97	22.16	19.86	33.00	Pass
30KHz	90MHz	LCH	DFT-64QAM	20.79	20.67	20.66	18.49	33.00	Pass
30KHz	90MHz	LCH	DFT-256QAM	18.76	18.64	18.72	16.46	33.00	Pass
30KHz	90MHz	LCH	CP-QPSK	21.78	21.67	21.59	19.48	33.00	Pass
30KHz	90MHz	MCH	DFT-Pi2BPSK	22.97	23.31	22.93	21.01	33.00	Pass
30KHz	90MHz	MCH	DFT-QPSK	22.94	23.31	22.96	21.01	33.00	Pass
30KHz	90MHz	MCH	DFT-16QAM	21.76	22.19	21.98	19.89	33.00	Pass
30KHz	90MHz	MCH	DFT-64QAM	20.44	20.85	20.53	18.55	33.00	Pass
30KHz	90MHz	MCH	DFT-256QAM	18.54	18.81	18.55	16.51	33.00	Pass
30KHz	90MHz	MCH	CP-QPSK	21.36	21.74	21.47	19.44	33.00	Pass
30KHz	90MHz	HCH	DFT-Pi2BPSK	22.71	23.37	22.83	21.07	33.00	Pass
30KHz	90MHz	HCH	DFT-QPSK	22.70	23.38	22.86	21.08	33.00	Pass
30KHz	90MHz	HCH	DFT-16QAM	21.57	22.27	21.89	19.97	33.00	Pass
30KHz	90MHz	HCH	DFT-64QAM	20.26	20.98	20.43	18.68	33.00	Pass
30KHz	90MHz	HCH	DFT-256QAM	18.19	18.98	18.50	16.68	33.00	Pass
30KHz	90MHz	HCH	CP-QPSK	21.11	21.85	21.35	19.55	33.00	Pass
30KHz	100MHz	LCH	DFT-Pi2BPSK	23.32	23.21	23.03	21.02	33.00	Pass
30KHz	100MHz	LCH	DFT-QPSK	23.13	23.20	23.12	20.90	33.00	Pass
30KHz	100MHz	LCH	DFT-16QAM	21.98	22.12	22.11	19.82	33.00	Pass
30KHz	100MHz	LCH	DFT-64QAM	20.77	20.79	20.62	18.49	33.00	Pass
30KHz	100MHz	LCH	DFT-256QAM	18.75	18.74	18.66	16.45	33.00	Pass
30KHz	100MHz	LCH	CP-QPSK	21.86	21.61	21.53	19.56	33.00	Pass
30KHz	100MHz	MCH	DFT-Pi2BPSK	22.90	23.33	22.95	21.03	33.00	Pass
30KHz	100MHz	MCH	DFT-QPSK	22.85	23.33	23.00	21.03	33.00	Pass
30KHz	100MHz	MCH	DFT-16QAM	21.74	22.22	22.01	19.92	33.00	Pass
30KHz	100MHz	MCH	DFT-64QAM	20.43	20.92	20.53	18.62	33.00	Pass
30KHz	100MHz	MCH	DFT-256QAM	18.46	18.88	18.58	16.58	33.00	Pass
30KHz	100MHz	MCH	CP-QPSK	21.40	21.81	21.46	19.51	33.00	Pass
30KHz	100MHz	HCH	DFT-Pi2BPSK	22.66	23.38	22.78	21.08	33.00	Pass
30KHz	100MHz	HCH	DFT-QPSK	22.70	23.44	22.88	21.14	33.00	Pass
30KHz	100MHz	HCH	DFT-16QAM	21.51	22.32	21.90	20.02	33.00	Pass
30KHz	100MHz	HCH	DFT-64QAM	20.22	21.02	20.46	18.72	33.00	Pass
30KHz	100MHz	HCH	DFT-256QAM	18.25	18.98	18.50	16.68	33.00	Pass

30KHz	100MHz	HCH	CP-QPSK	21.11	21.83	21.35	19.53	33.00	Pass

2. Peak-to-Average Ratio

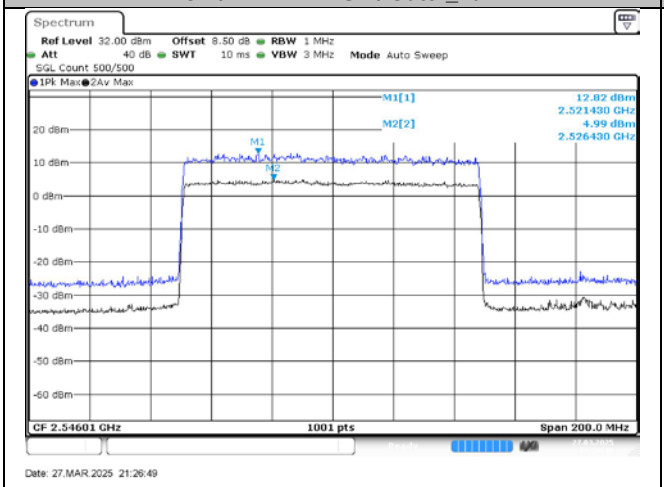
2.1. Test Results

SCS	Bandwidth	Channel	RB	Result (dB)		Limit (dB)	Verdict
				DFT-Pi2BPSK	DFT-QPSK		
30KHz	100MHz	LCH	Outer_Full	7.83	7.51	13.00	Pass
30KHz	100MHz	MCH	Outer_Full	7.53	7.87	13.00	Pass
30KHz	100MHz	HCH	Outer_Full	8.06	8.37	13.00	Pass

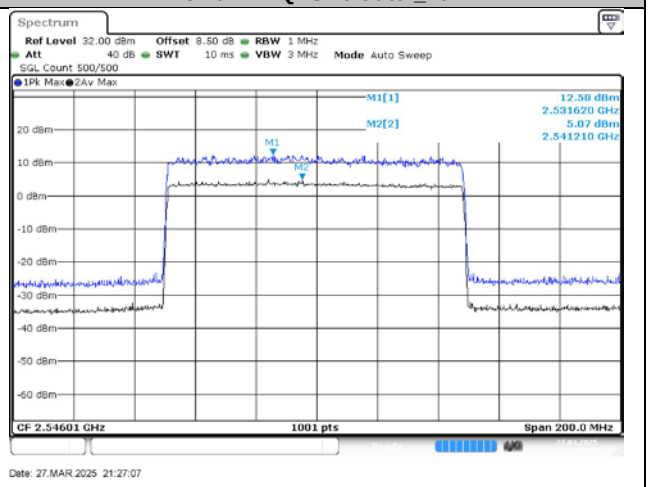
2.2. Test Plots for SCS=30KHz

n41A / 30KHz / 100MHz

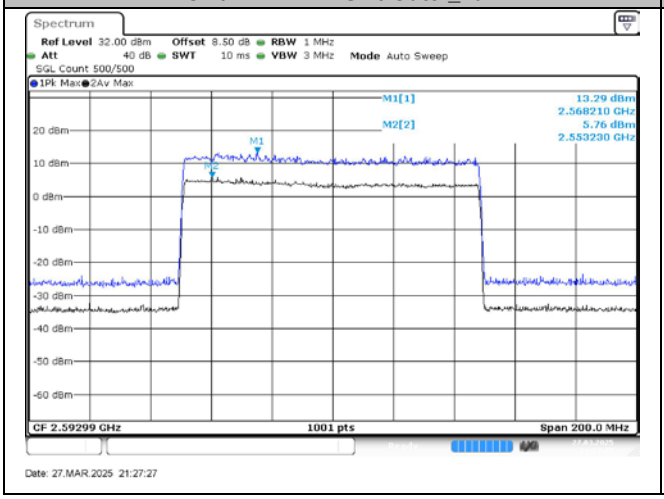
LCH / DFT-Pi2BPSK / Outer_Full



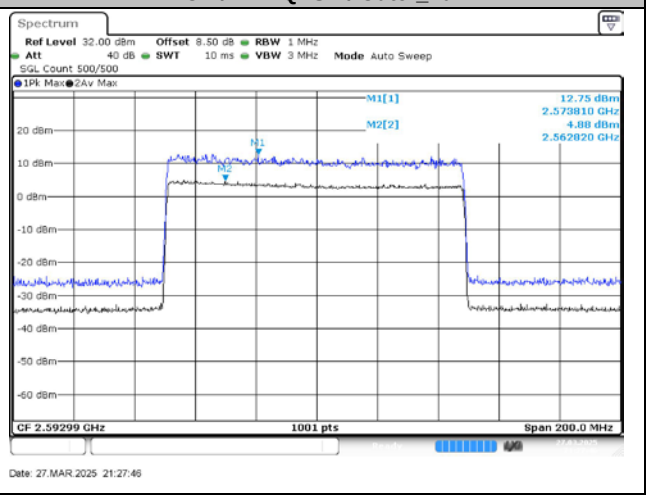
LCH / DFT-QPSK / Outer_Full

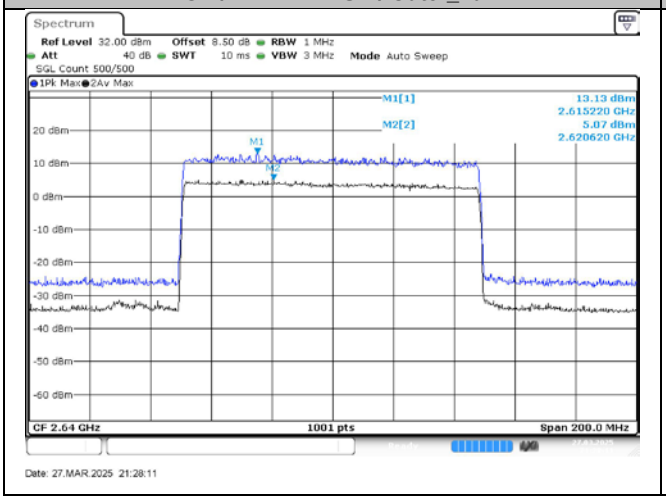
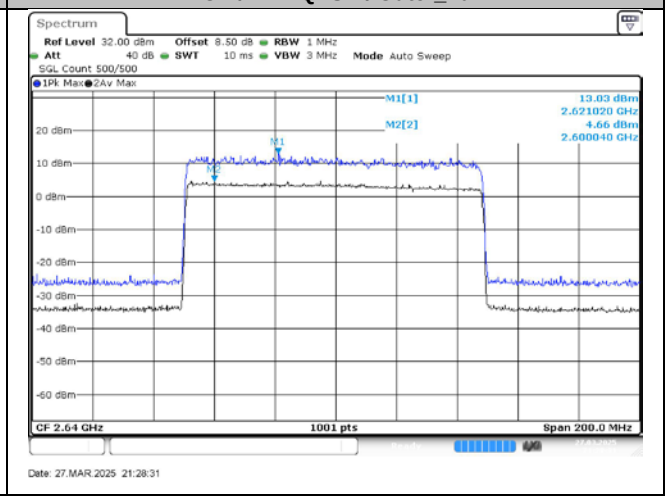


MCH / DFT-Pi2BPSK / Outer_Full



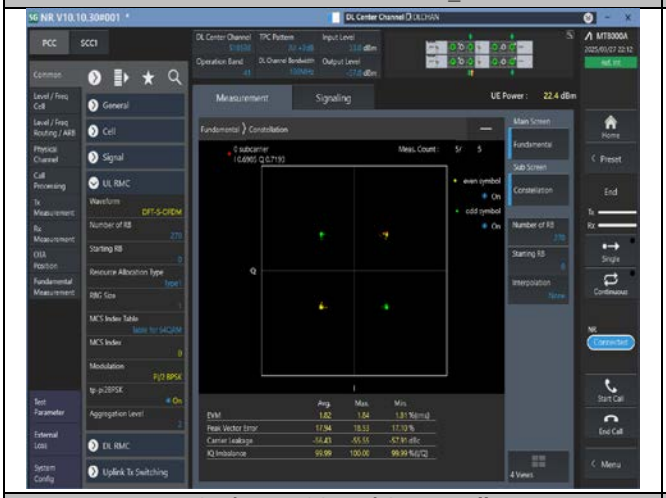
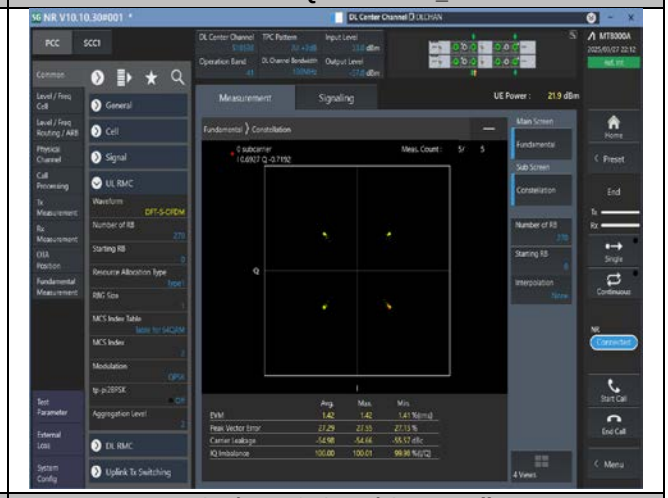
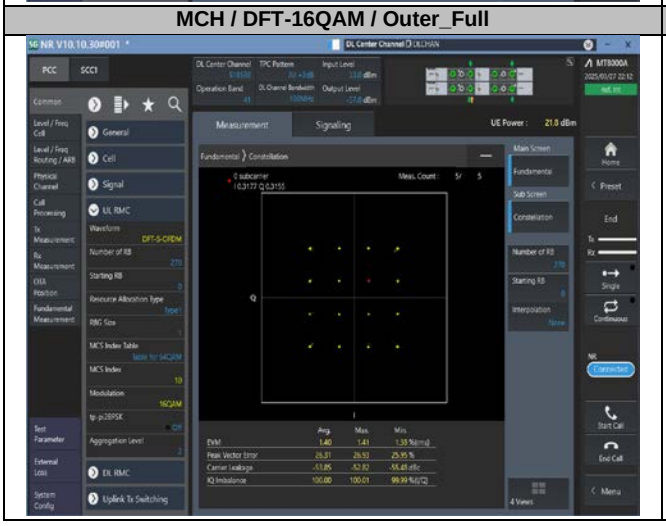
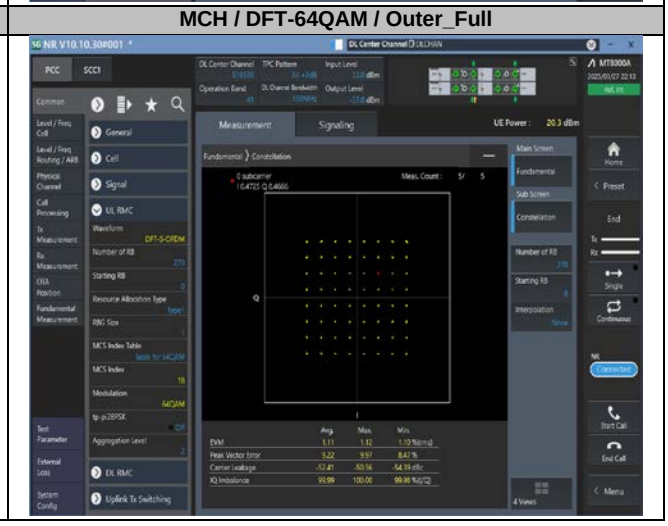
MCH / DFT-QPSK / Outer_Full

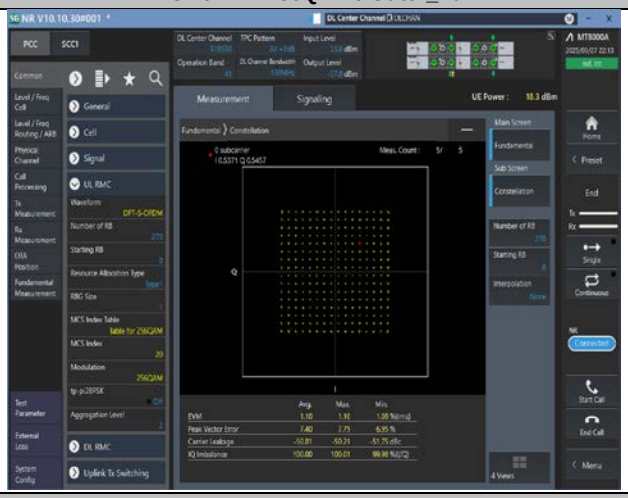
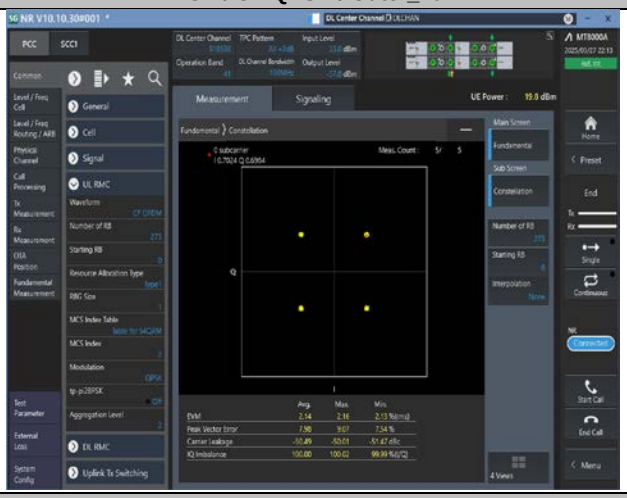
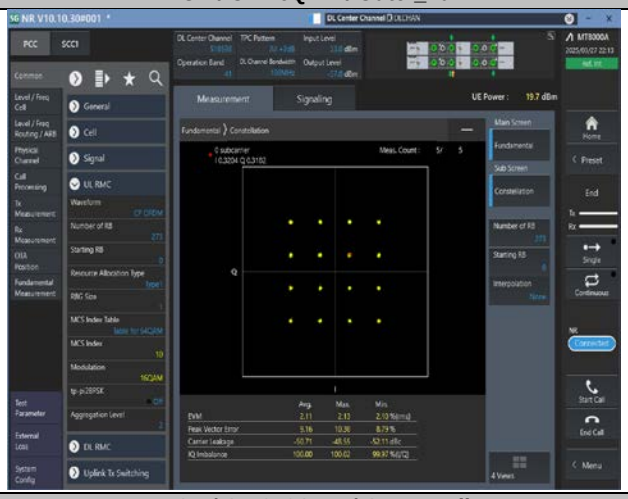
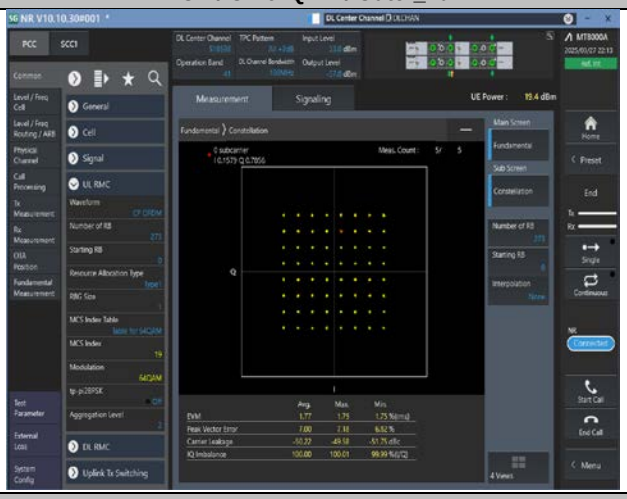
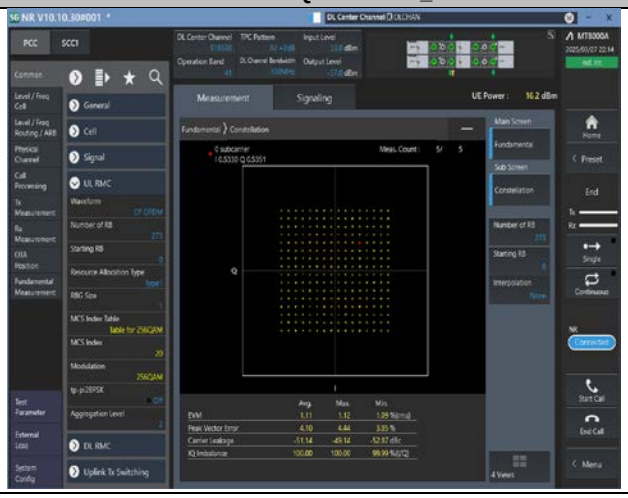


HCH / DFT-Pi2BPSK / Outer_Full	HCH / DFT-QPSK / Outer_Full
	

3. Modulation Characteristics

3.1. Test Plots for SCS=30KHz

n41A / 30KHz / 100MHz	
MCH / DFT-Pi2BPSK / Outer_Full	MCH / DFT-QPSK / Outer_Full
	
MCH / DFT-16QAM / Outer_Full	MCH / DFT-64QAM / Outer_Full
	

MCH / DFT-256QAM / Outer_Full	MCH / CP-QPSK / Outer_Full
	
MCH / CP-16QAM / Outer_Full	**MCH / CP-64QAM / Outer_Full**
	
MCH / CP-256QAM / Outer_Full	
	***Intentionally Blank***

4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

4.1. Test Results

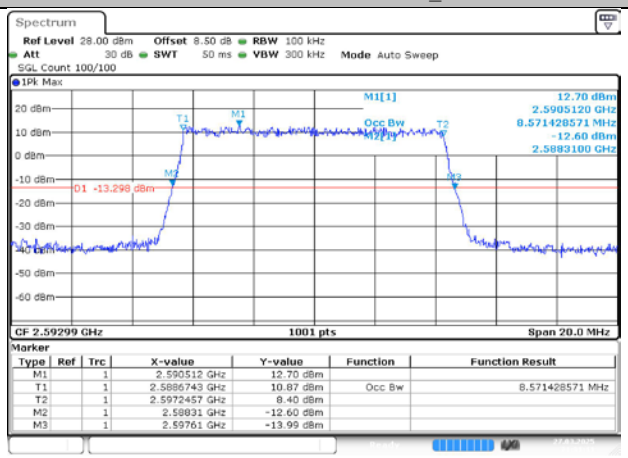
SCS	Bandwidth	Modulation	RB	99% Occupied Bandwidth (MHz)	26dB Emission Bandwidth (MHz)	Verdict
30KHz	10MHz	DFT-Pi2BPSK	Outer_Full	8.57	9.30	Pass
30KHz	10MHz	DFT-QPSK	Outer_Full	8.57	9.16	Pass
30KHz	10MHz	CP-QPSK	Outer_Full	8.59	9.36	Pass
30KHz	10MHz	CP-16QAM	Outer_Full	8.55	9.28	Pass
30KHz	10MHz	CP-64QAM	Outer_Full	8.55	9.30	Pass
30KHz	10MHz	CP-256QAM	Outer_Full	8.57	9.36	Pass
30KHz	15MHz	DFT-Pi2BPSK	Outer_Full	12.89	13.71	Pass
30KHz	15MHz	DFT-QPSK	Outer_Full	12.89	13.71	Pass
30KHz	15MHz	CP-QPSK	Outer_Full	13.58	14.58	Pass
30KHz	15MHz	CP-16QAM	Outer_Full	13.58	14.55	Pass
30KHz	15MHz	CP-64QAM	Outer_Full	13.64	14.55	Pass
30KHz	15MHz	CP-256QAM	Outer_Full	13.58	14.52	Pass
30KHz	20MHz	DFT-Pi2BPSK	Outer_Full	17.86	18.72	Pass
30KHz	20MHz	DFT-QPSK	Outer_Full	17.86	18.72	Pass
30KHz	20MHz	CP-QPSK	Outer_Full	18.22	19.20	Pass
30KHz	20MHz	CP-16QAM	Outer_Full	18.18	19.28	Pass
30KHz	20MHz	CP-64QAM	Outer_Full	18.18	19.24	Pass
30KHz	20MHz	CP-256QAM	Outer_Full	18.18	19.16	Pass
30KHz	25MHz	DFT-Pi2BPSK	Outer_Full	22.83	23.95	Pass
30KHz	25MHz	DFT-QPSK	Outer_Full	22.78	24.05	Pass
30KHz	25MHz	CP-QPSK	Outer_Full	23.18	24.40	Pass
30KHz	25MHz	CP-16QAM	Outer_Full	23.18	24.45	Pass
30KHz	25MHz	CP-64QAM	Outer_Full	23.23	24.40	Pass
30KHz	25MHz	CP-256QAM	Outer_Full	23.23	24.45	Pass
30KHz	30MHz	DFT-Pi2BPSK	Outer_Full	26.79	28.20	Pass
30KHz	30MHz	DFT-QPSK	Outer_Full	26.79	28.20	Pass
30KHz	30MHz	CP-QPSK	Outer_Full	27.75	29.28	Pass
30KHz	30MHz	CP-16QAM	Outer_Full	27.87	29.34	Pass
30KHz	30MHz	CP-64QAM	Outer_Full	27.75	29.28	Pass
30KHz	30MHz	CP-256QAM	Outer_Full	27.87	29.40	Pass
30KHz	35MHz	DFT-Pi2BPSK	Outer_Full	32.17	34.02	Pass
30KHz	35MHz	DFT-QPSK	Outer_Full	32.17	33.88	Pass
30KHz	35MHz	CP-QPSK	Outer_Full	32.87	34.72	Pass
30KHz	35MHz	CP-16QAM	Outer_Full	32.87	34.86	Pass
30KHz	35MHz	CP-64QAM	Outer_Full	32.87	34.72	Pass
30KHz	35MHz	CP-256QAM	Outer_Full	32.87	34.79	Pass
30KHz	40MHz	DFT-Pi2BPSK	Outer_Full	35.72	37.76	Pass
30KHz	40MHz	DFT-QPSK	Outer_Full	35.72	37.52	Pass
30KHz	40MHz	CP-QPSK	Outer_Full	37.72	39.68	Pass
30KHz	40MHz	CP-16QAM	Outer_Full	37.88	39.76	Pass
30KHz	40MHz	CP-64QAM	Outer_Full	37.80	39.60	Pass
30KHz	40MHz	CP-256QAM	Outer_Full	37.72	39.68	Pass
30KHz	45MHz	DFT-Pi2BPSK	Outer_Full	38.57	40.41	Pass
30KHz	45MHz	DFT-QPSK	Outer_Full	38.57	40.50	Pass
30KHz	45MHz	CP-QPSK	Outer_Full	42.44	44.55	Pass
30KHz	45MHz	CP-16QAM	Outer_Full	42.44	44.46	Pass
30KHz	45MHz	CP-64QAM	Outer_Full	42.44	44.37	Pass
30KHz	45MHz	CP-256QAM	Outer_Full	42.44	44.46	Pass
30KHz	50MHz	DFT-Pi2BPSK	Outer_Full	45.75	47.60	Pass
30KHz	50MHz	DFT-QPSK	Outer_Full	45.65	47.70	Pass
30KHz	50MHz	CP-QPSK	Outer_Full	47.45	49.50	Pass
30KHz	50MHz	CP-16QAM	Outer_Full	47.35	49.50	Pass
30KHz	50MHz	CP-64QAM	Outer_Full	47.45	49.60	Pass
30KHz	50MHz	CP-256QAM	Outer_Full	47.35	49.40	Pass
30KHz	60MHz	DFT-Pi2BPSK	Outer_Full	57.90	60.60	Pass
30KHz	60MHz	DFT-QPSK	Outer_Full	57.90	60.84	Pass
30KHz	60MHz	CP-QPSK	Outer_Full	57.78	60.84	Pass
30KHz	60MHz	CP-16QAM	Outer_Full	57.66	60.60	Pass

30KHz	60MHz	CP-64QAM	Outer_Full	58.02	60.60	Pass
30KHz	60MHz	CP-256QAM	Outer_Full	57.78	60.60	Pass
30KHz	70MHz	DFT-Pi2BPSK	Outer_Full	64.20	67.20	Pass
30KHz	70MHz	DFT-QPSK	Outer_Full	64.34	67.34	Pass
30KHz	70MHz	CP-QPSK	Outer_Full	67.55	70.42	Pass
30KHz	70MHz	CP-16QAM	Outer_Full	67.55	70.28	Pass
30KHz	70MHz	CP-64QAM	Outer_Full	67.55	70.42	Pass
30KHz	70MHz	CP-256QAM	Outer_Full	67.41	70.42	Pass
30KHz	80MHz	DFT-Pi2BPSK	Outer_Full	77.04	80.32	Pass
30KHz	80MHz	DFT-QPSK	Outer_Full	77.04	80.16	Pass
30KHz	80MHz	CP-QPSK	Outer_Full	77.52	80.64	Pass
30KHz	80MHz	CP-16QAM	Outer_Full	77.52	80.64	Pass
30KHz	80MHz	CP-64QAM	Outer_Full	77.68	80.48	Pass
30KHz	80MHz	CP-256QAM	Outer_Full	77.52	80.64	Pass
30KHz	90MHz	DFT-Pi2BPSK	Outer_Full	86.85	90.00	Pass
30KHz	90MHz	DFT-QPSK	Outer_Full	86.67	90.18	Pass
30KHz	90MHz	CP-QPSK	Outer_Full	87.39	90.54	Pass
30KHz	90MHz	CP-16QAM	Outer_Full	87.39	90.72	Pass
30KHz	90MHz	CP-64QAM	Outer_Full	87.57	90.72	Pass
30KHz	90MHz	CP-256QAM	Outer_Full	87.39	90.72	Pass
30KHz	100MHz	DFT-Pi2BPSK	Outer_Full	96.50	99.80	Pass
30KHz	100MHz	DFT-QPSK	Outer_Full	96.50	99.80	Pass
30KHz	100MHz	CP-QPSK	Outer_Full	97.50	101.00	Pass
30KHz	100MHz	CP-16QAM	Outer_Full	97.30	100.80	Pass
30KHz	100MHz	CP-64QAM	Outer_Full	97.50	100.80	Pass
30KHz	100MHz	CP-256QAM	Outer_Full	97.50	100.60	Pass

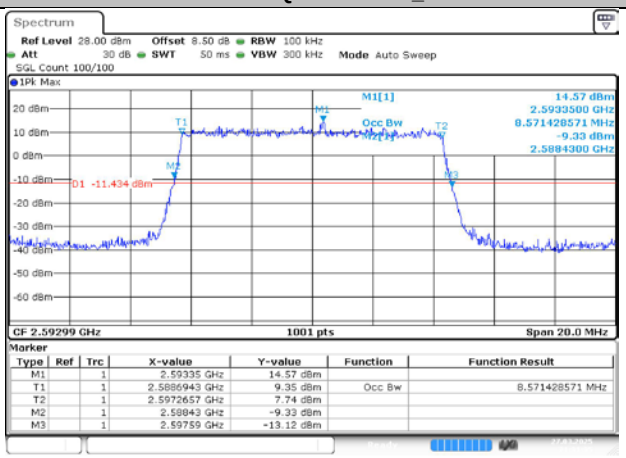
4.2. Test Plots for SCS=30KHz

n41A / 30KHz / 10MHz

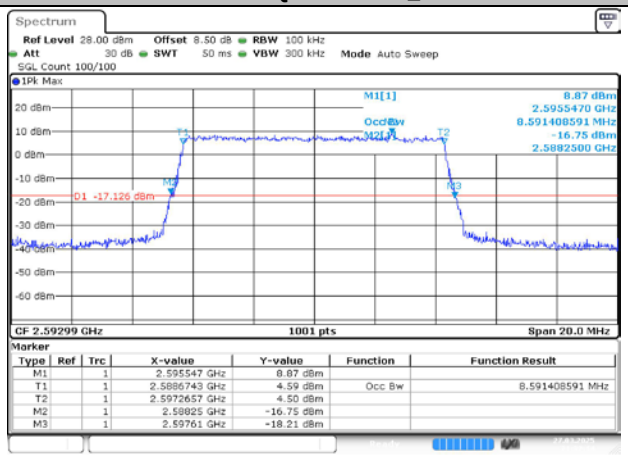
MCH / DFT-Pi2BPSK / Outer_Full



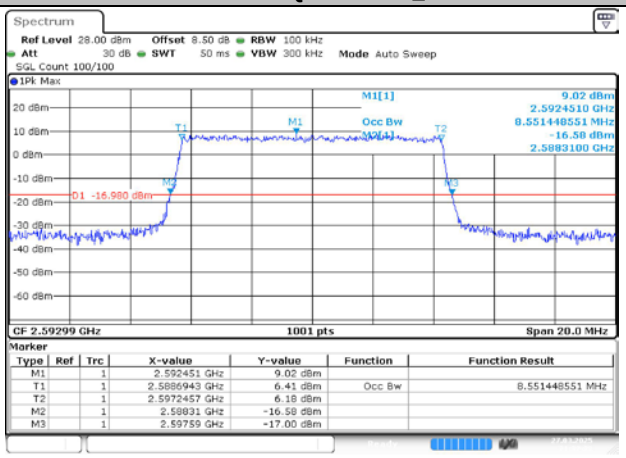
MCH / DFT-QPSK / Outer_Full



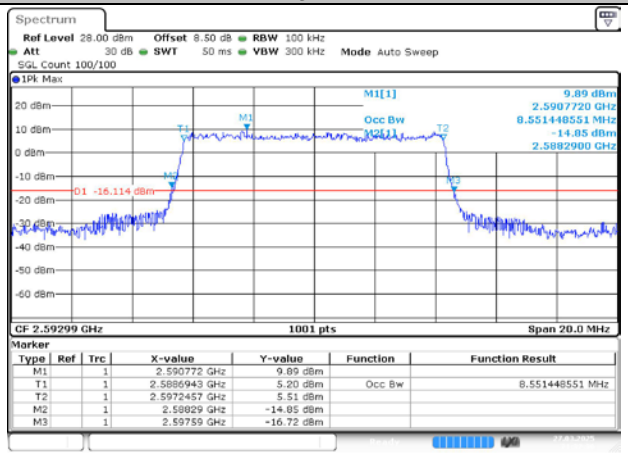
MCH / CP-QPSK / Outer_Full



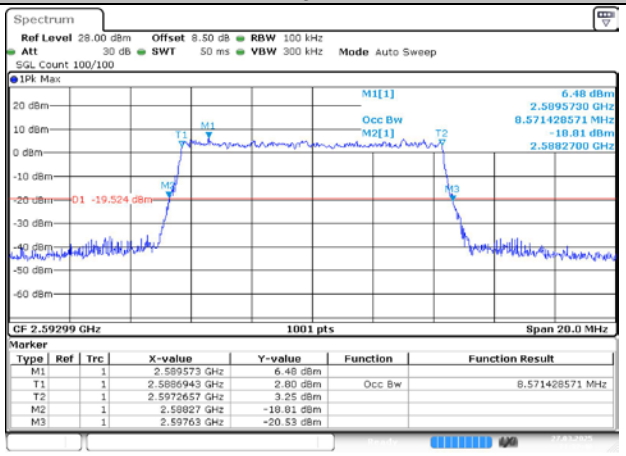
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

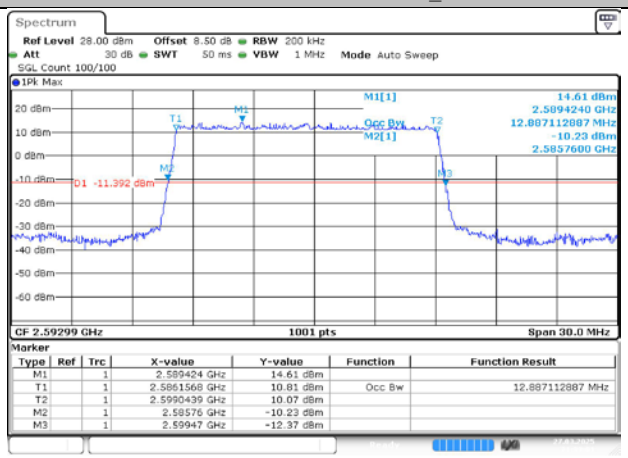


MCH / CP-256QAM / Outer_Full

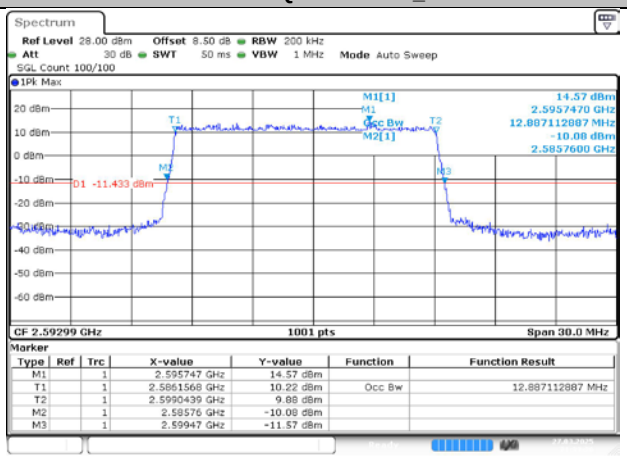


n41A / 30KHz / 15MHz

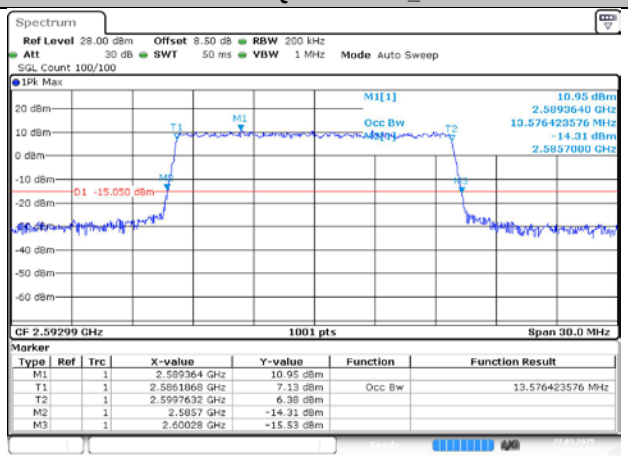
MCH / DFT-Pi2BPSK / Outer_Full



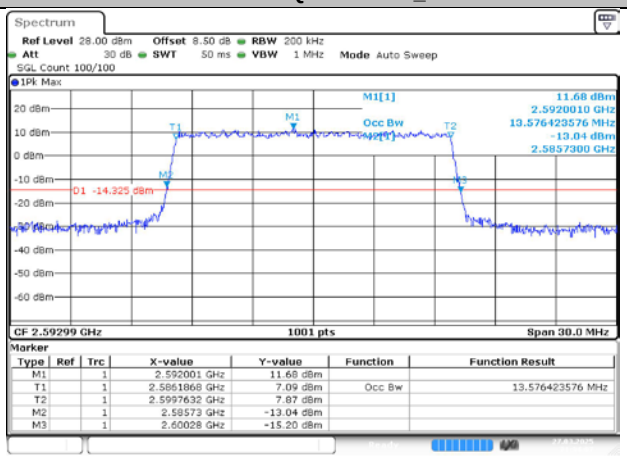
MCH / DFT-QPSK / Outer_Full



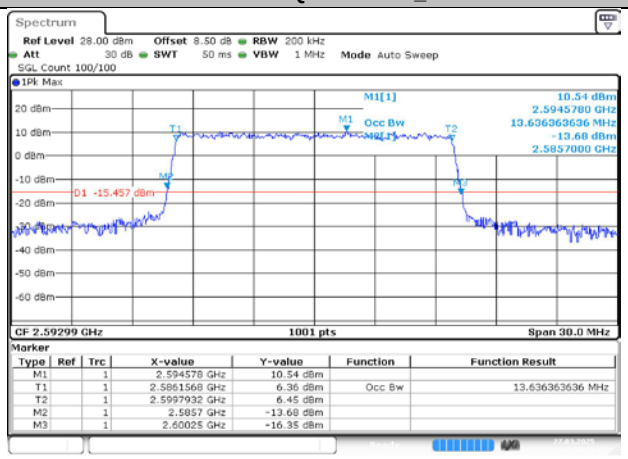
MCH / CP-QPSK / Outer_Full



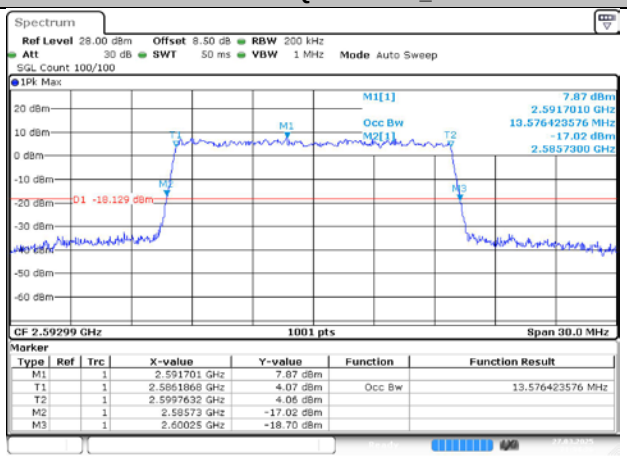
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

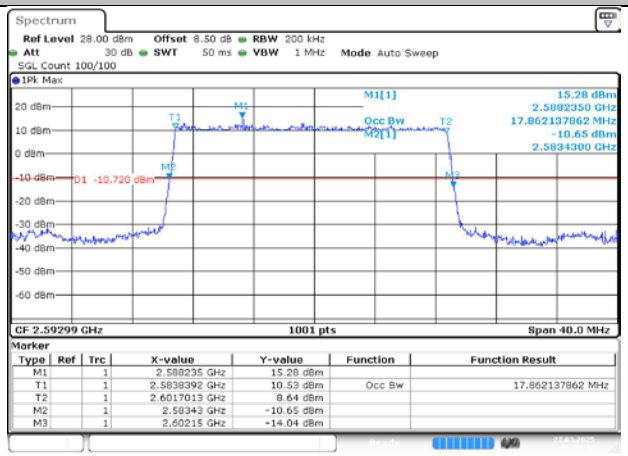


MCH / CP-256QAM / Outer_Full

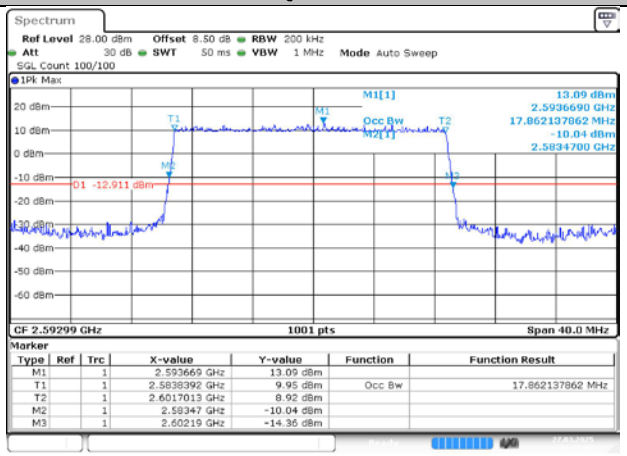


n41A / 30KHz / 20MHz

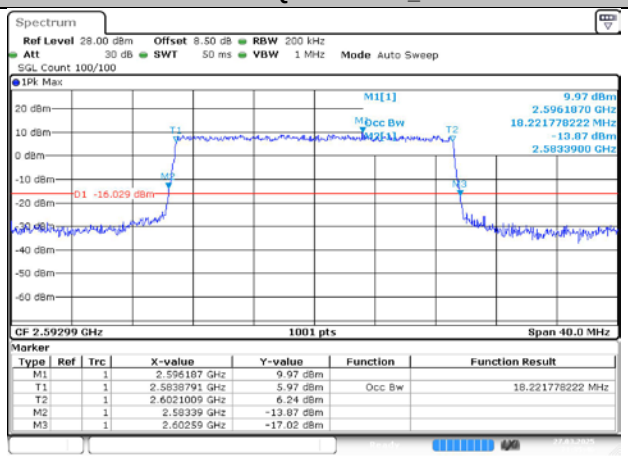
MCH / DFT-Pi2BPSK / Outer_Full



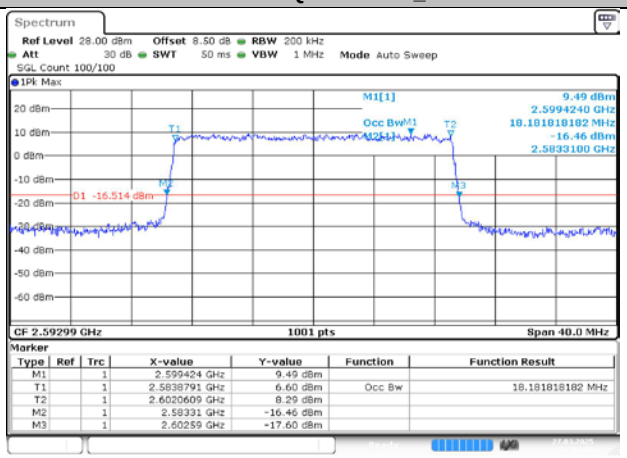
MCH / DFT-QPSK / Outer_Full



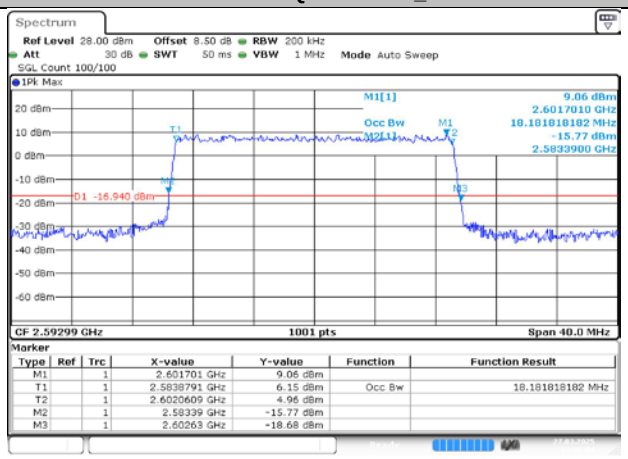
MCH / CP-QPSK / Outer_Full



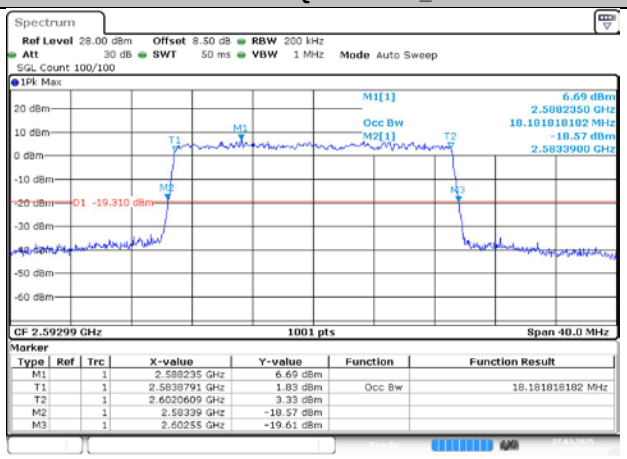
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

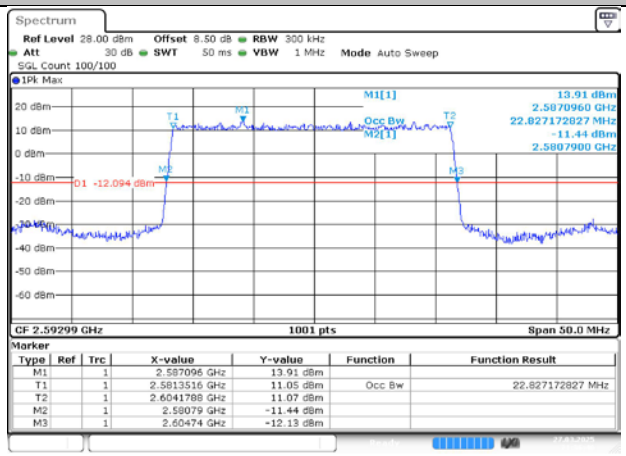


MCH / CP-256QAM / Outer_Full

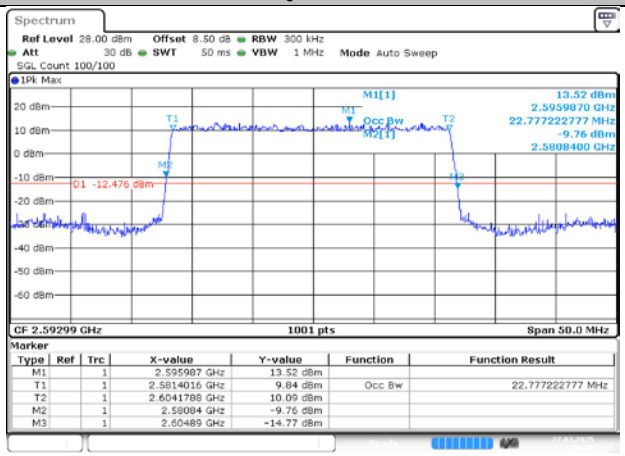


n41A / 30KHz / 25MHz

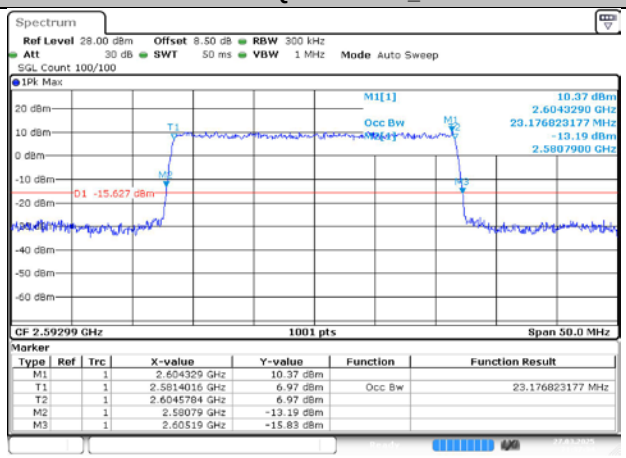
MCH / DFT-Pi2BPSK / Outer_Full



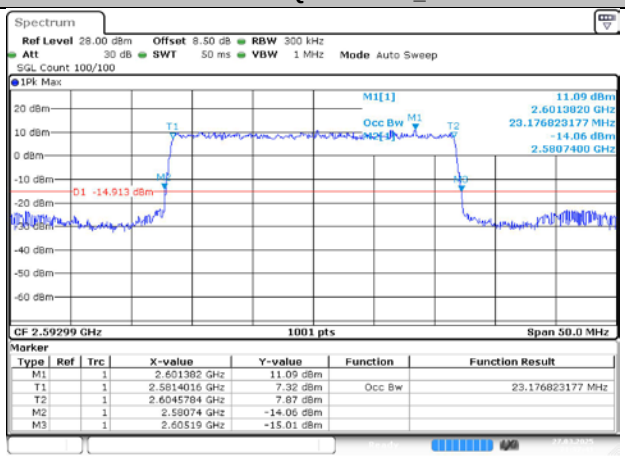
MCH / DFT-QPSK / Outer_Full



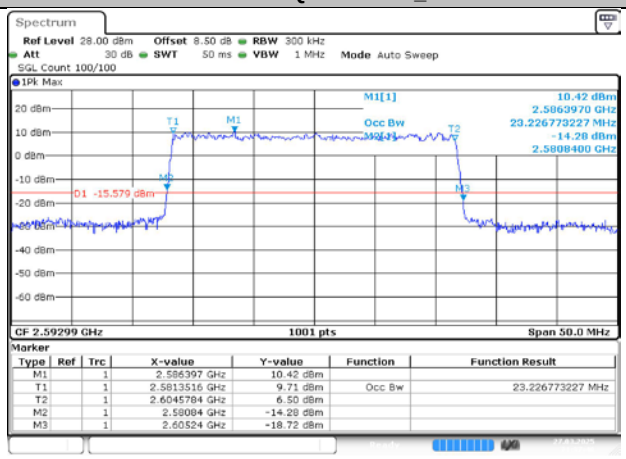
MCH / CP-QPSK / Outer_Full



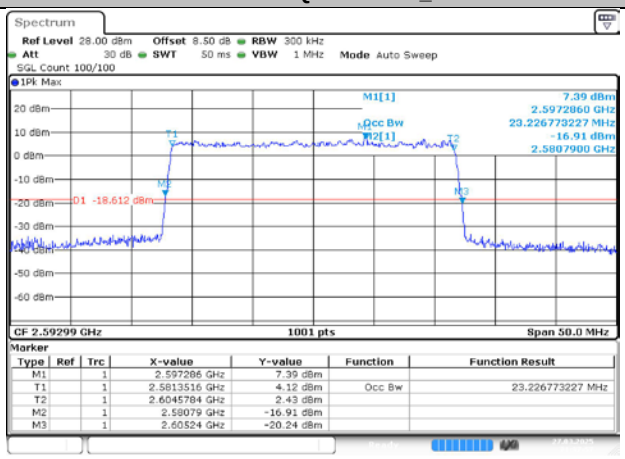
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

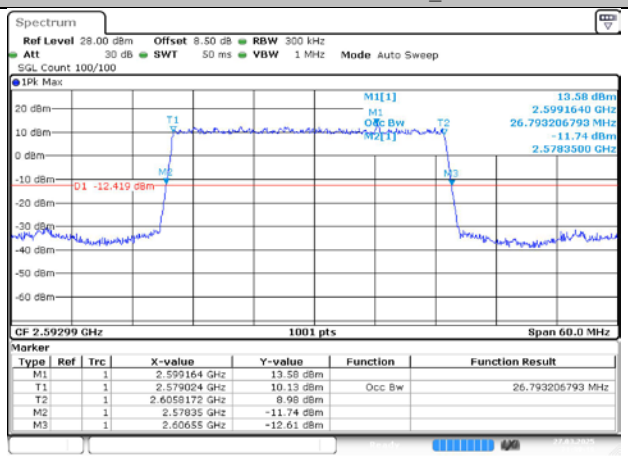


MCH / CP-256QAM / Outer_Full

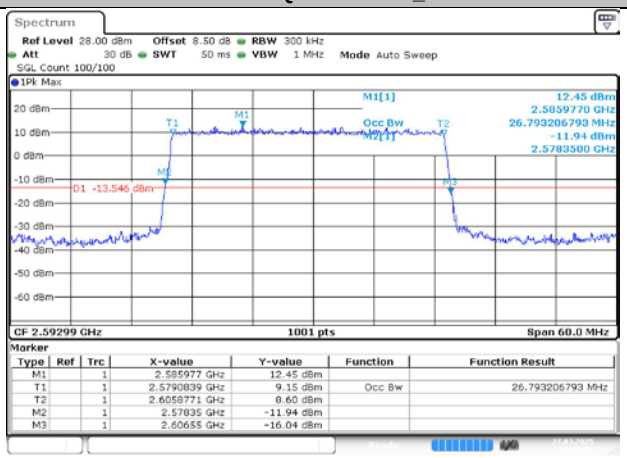


n41A / 30KHz / 30MHz

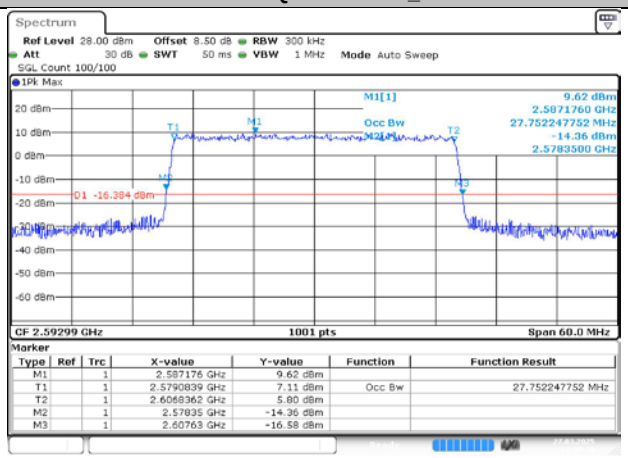
MCH / DFT-Pi2BPSK / Outer_Full



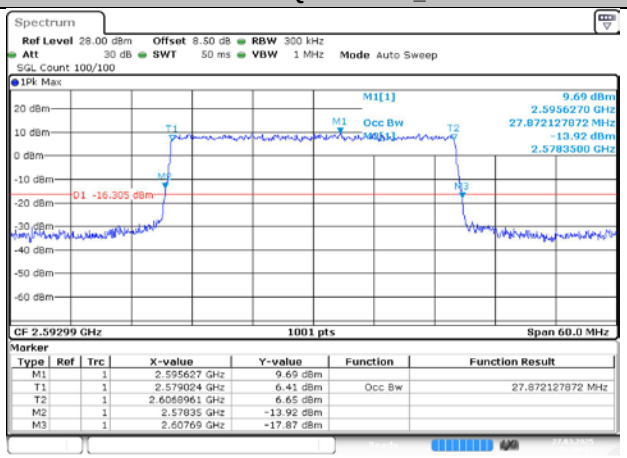
MCH / DFT-QPSK / Outer_Full



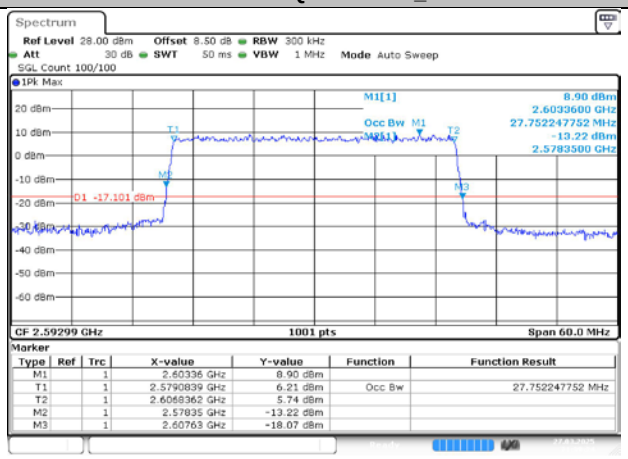
MCH / CP-QPSK / Outer_Full



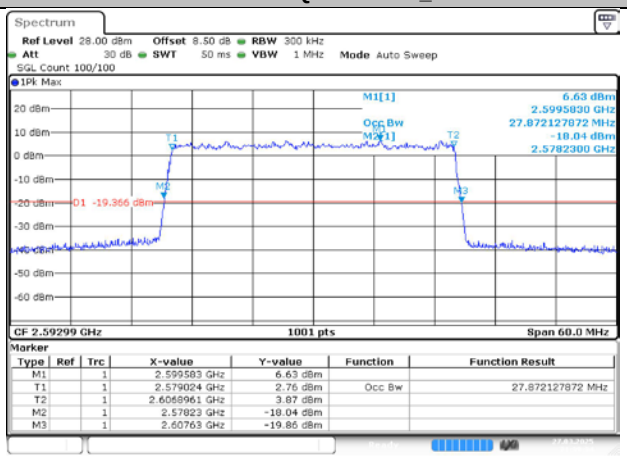
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

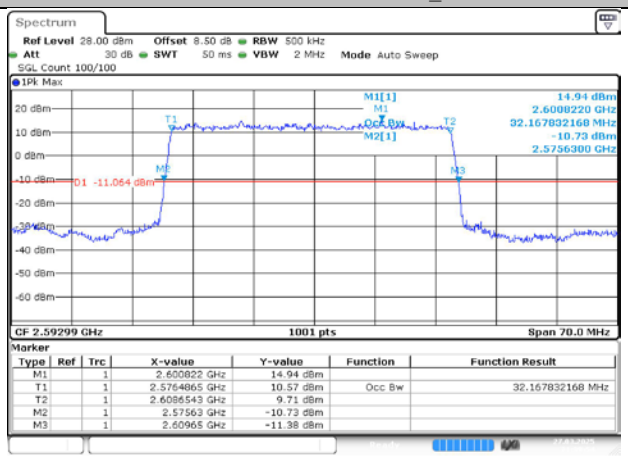


MCH / CP-256QAM / Outer_Full

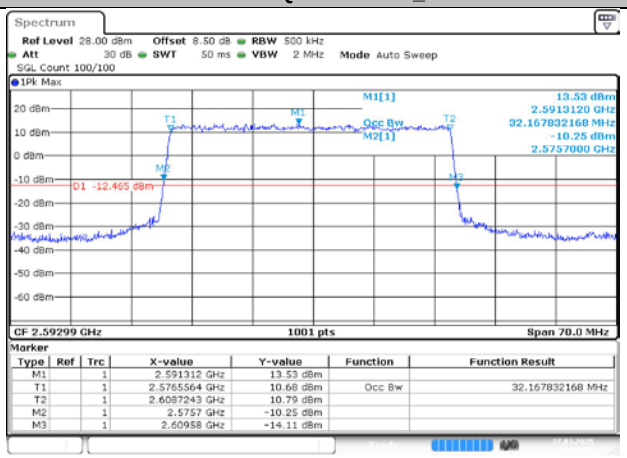


n41A / 30KHz / 35MHz

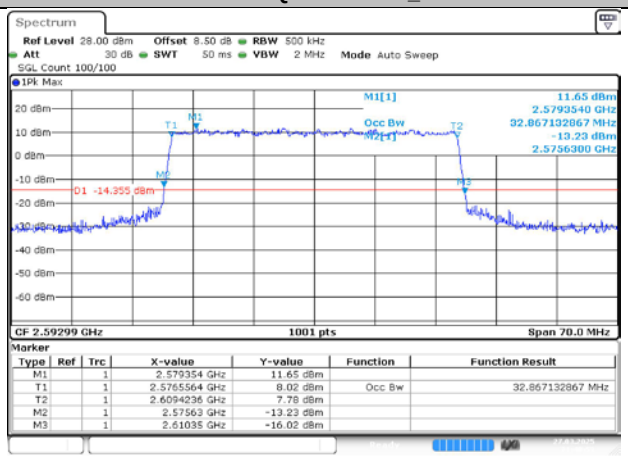
MCH / DFT-Pi2BPSK / Outer_Full



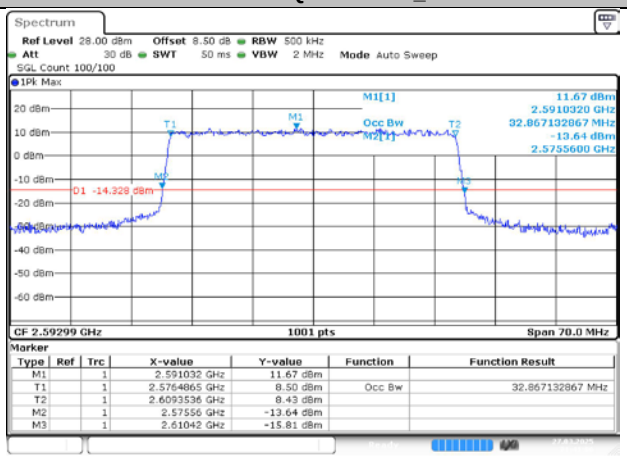
MCH / DFT-QPSK / Outer_Full



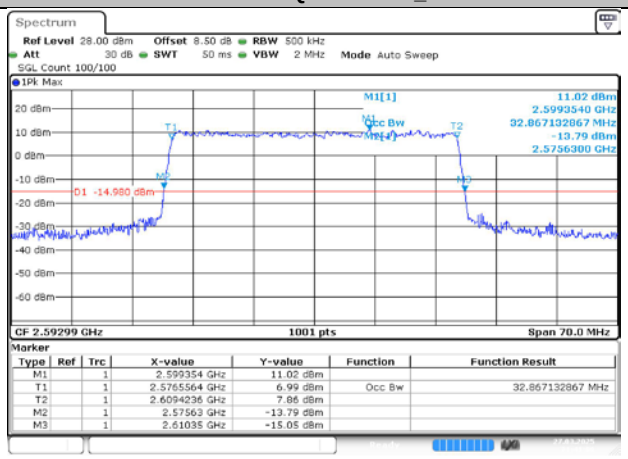
MCH / CP-QPSK / Outer_Full



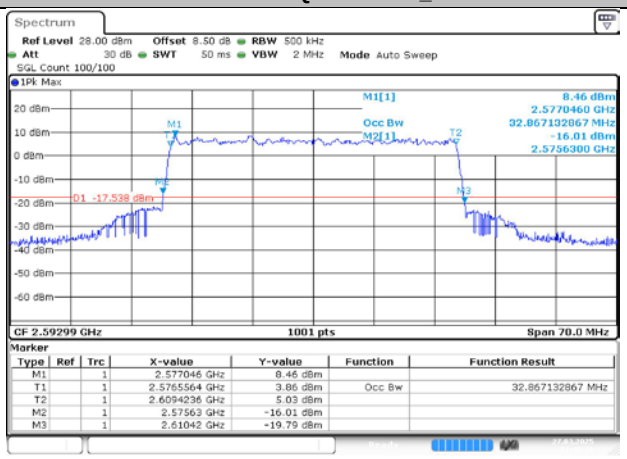
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

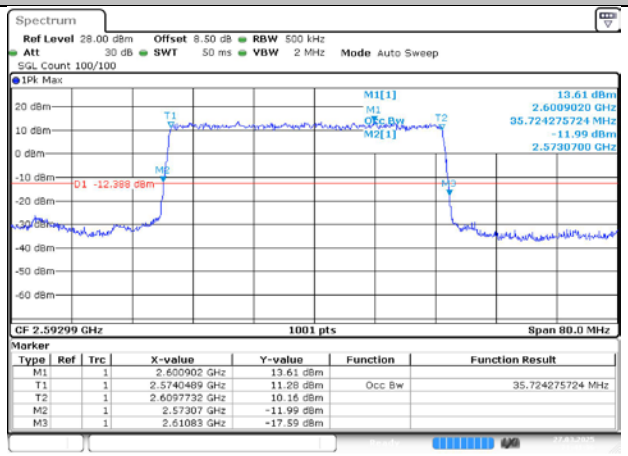


MCH / CP-256QAM / Outer_Full

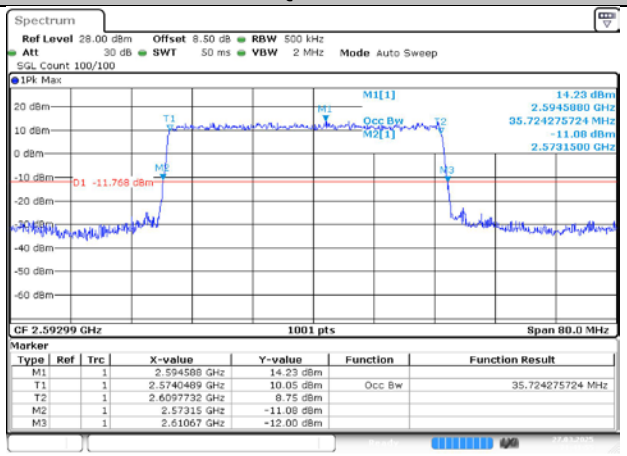


n41A / 30KHz / 40MHz

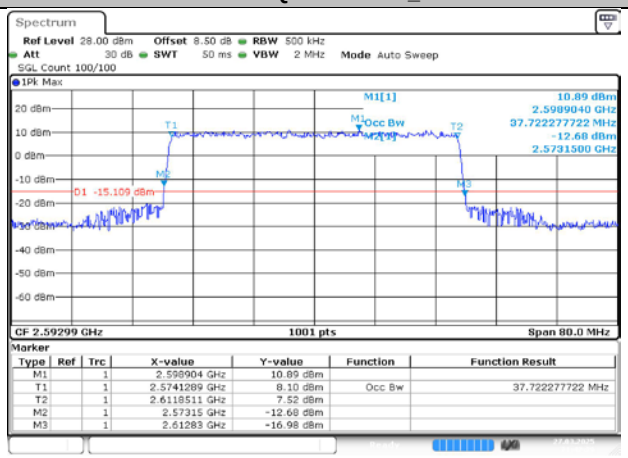
MCH / DFT-Pi2BPSK / Outer_Full



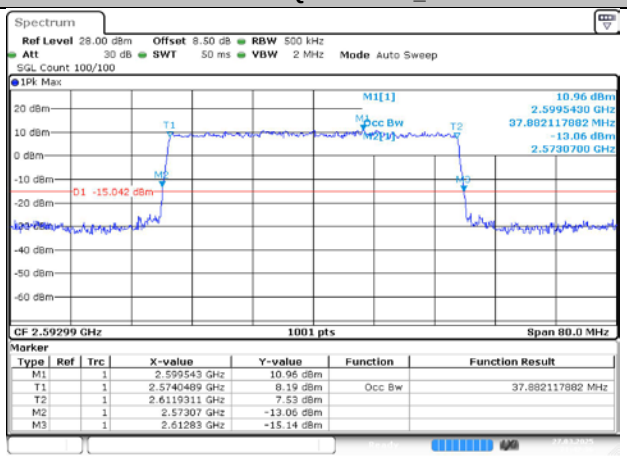
MCH / DFT-QPSK / Outer_Full



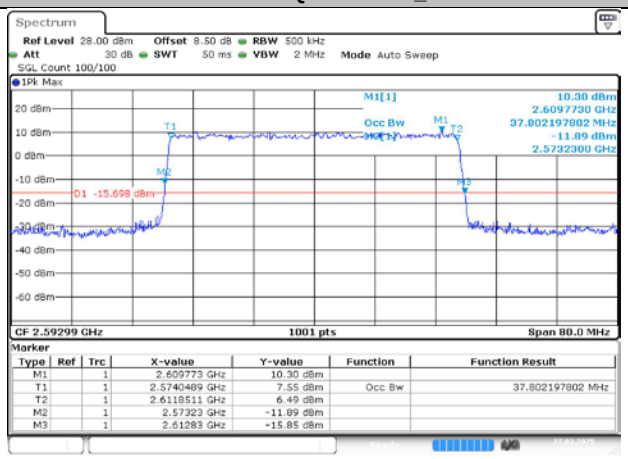
MCH / CP-QPSK / Outer_Full



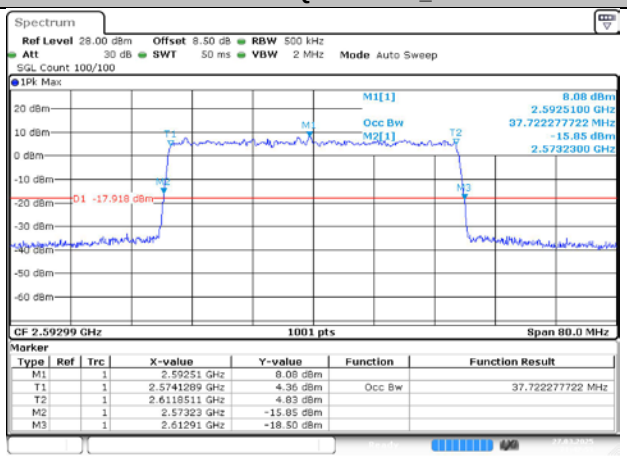
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

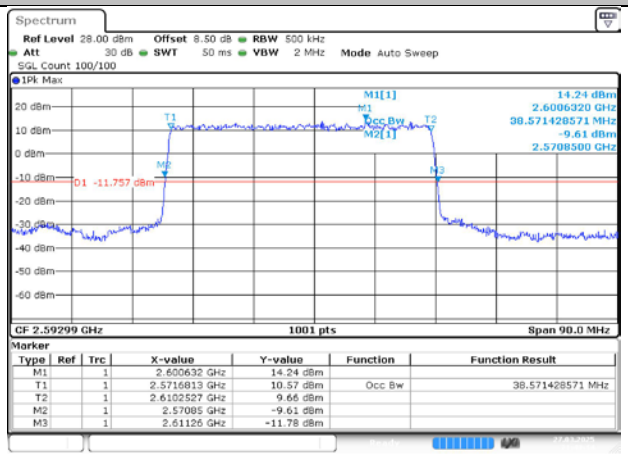


MCH / CP-256QAM / Outer_Full

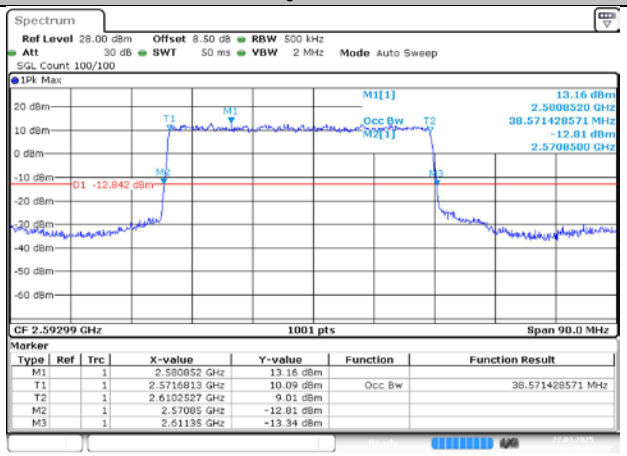


n41A / 30KHz / 45MHz

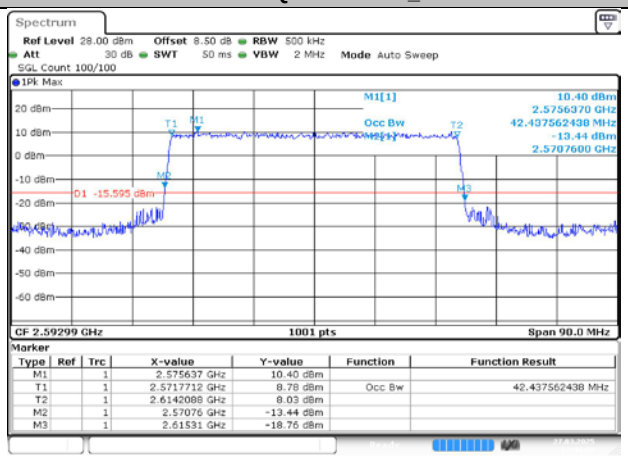
MCH / DFT-Pi2BPSK / Outer_Full



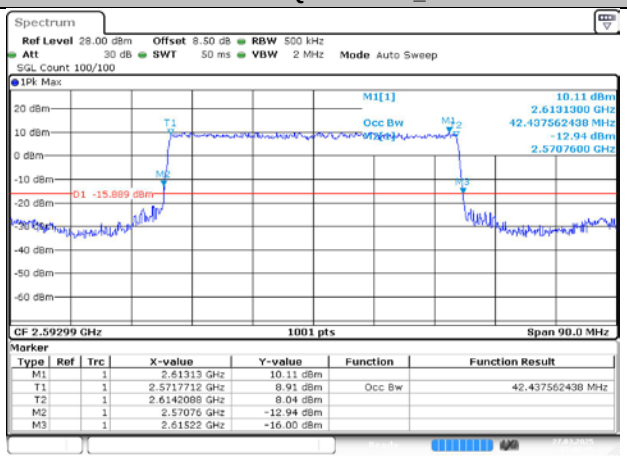
MCH / DFT-QPSK / Outer_Full



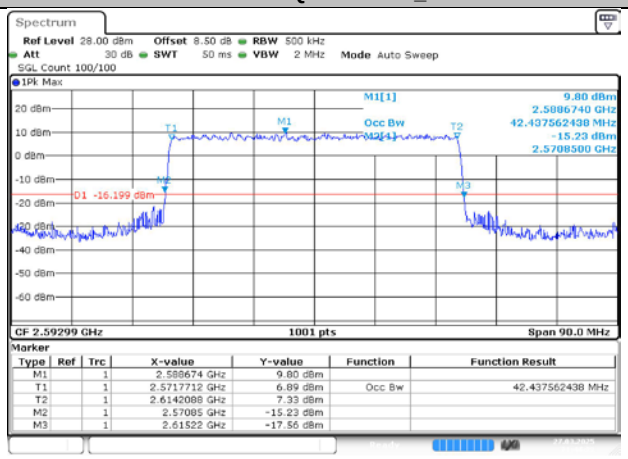
MCH / CP-QPSK / Outer_Full



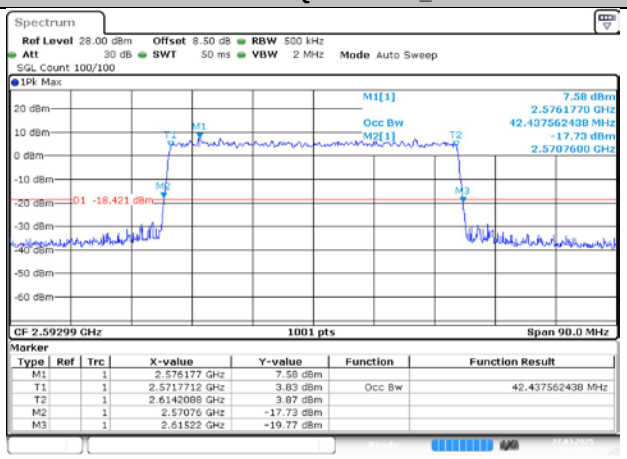
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

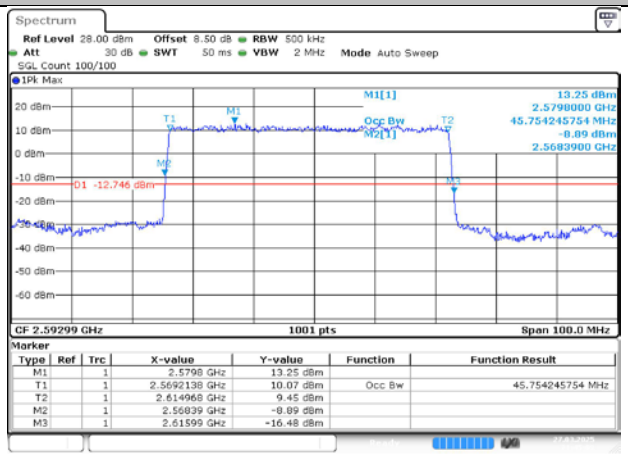


MCH / CP-256QAM / Outer_Full

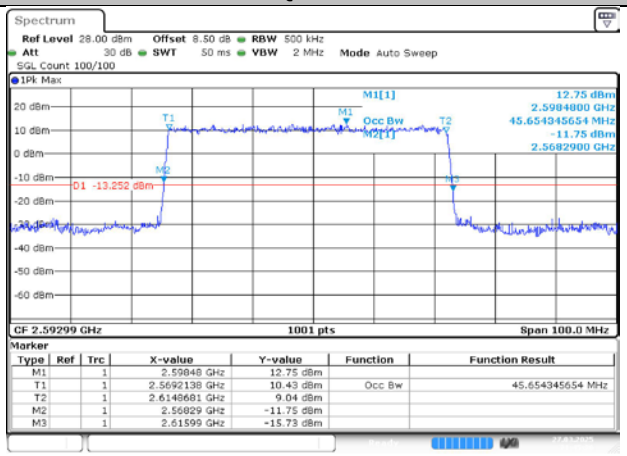


n41A / 30KHz / 50MHz

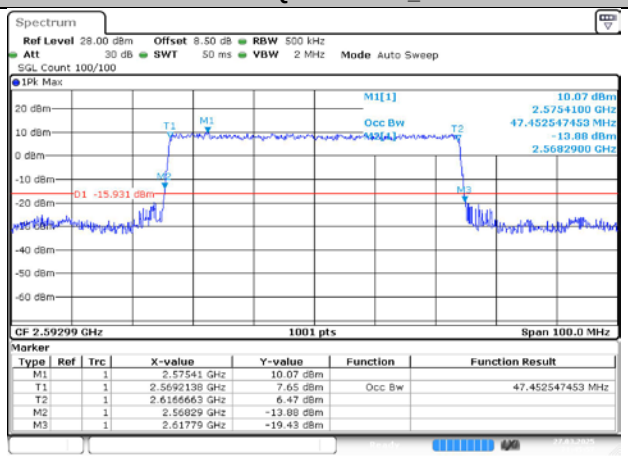
MCH / DFT-Pi2BPSK / Outer_Full



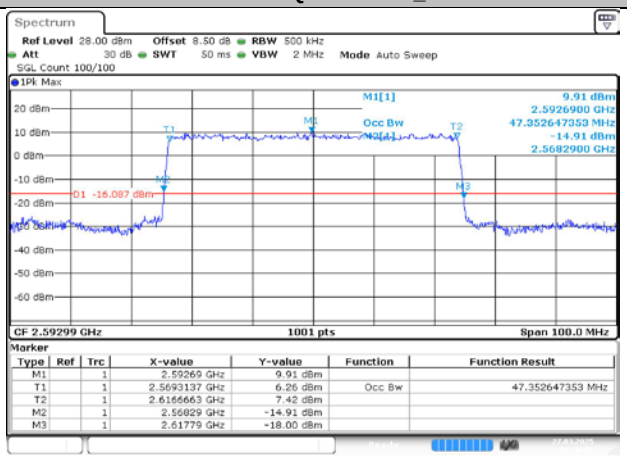
MCH / DFT-QPSK / Outer_Full



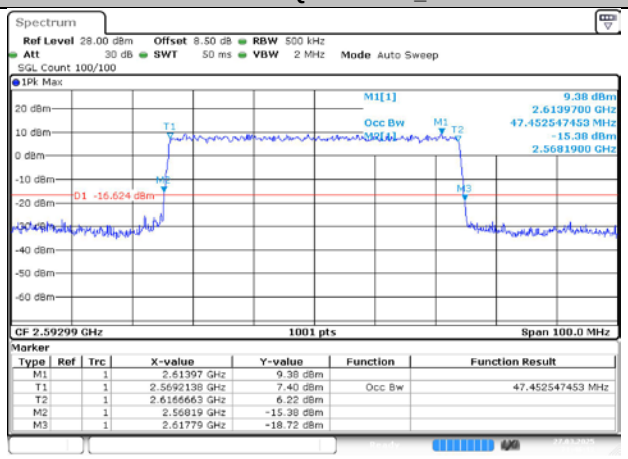
MCH / CP-QPSK / Outer_Full



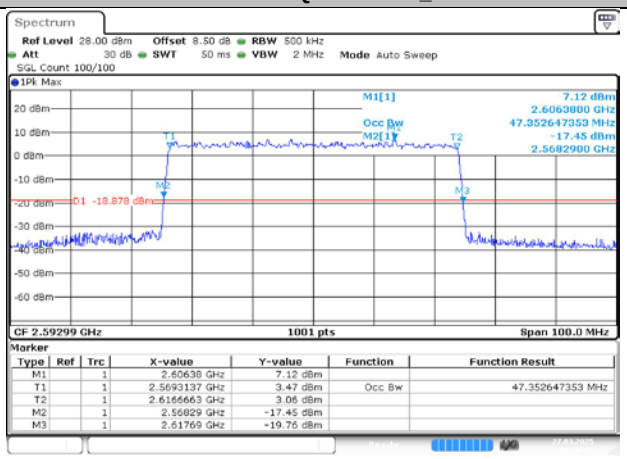
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

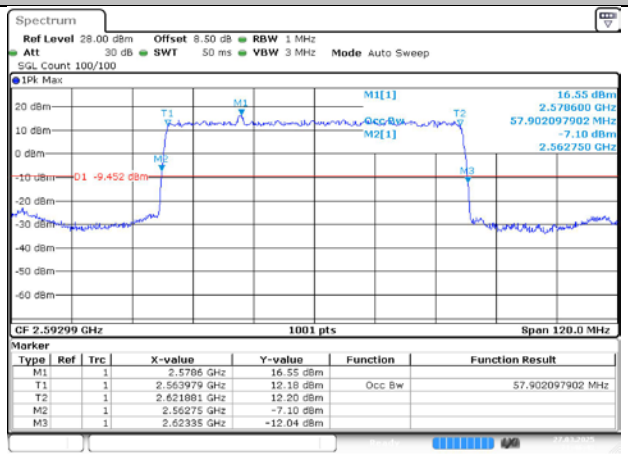


MCH / CP-256QAM / Outer_Full



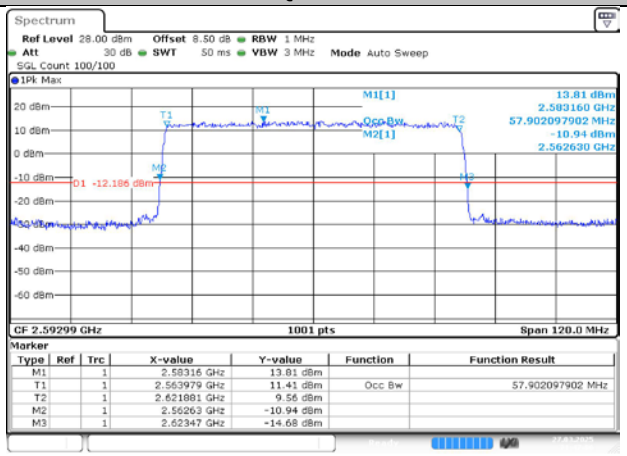
n41A / 30KHz / 60MHz

MCH / DFT-Pi2BPSK / Outer_Full



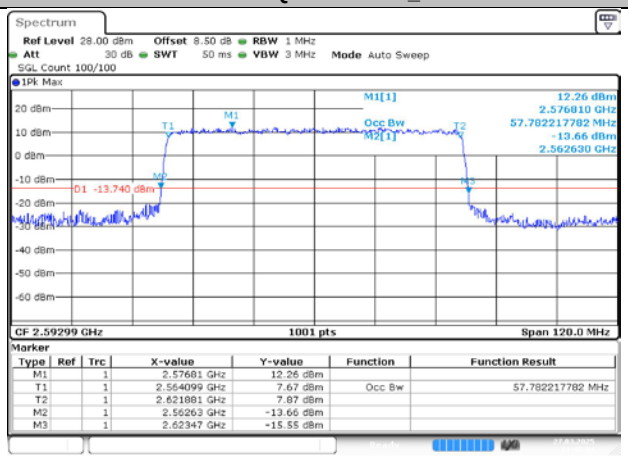
Date: 27.MAR.2025 21:46:42

MCH / DFT-QPSK / Outer_Full



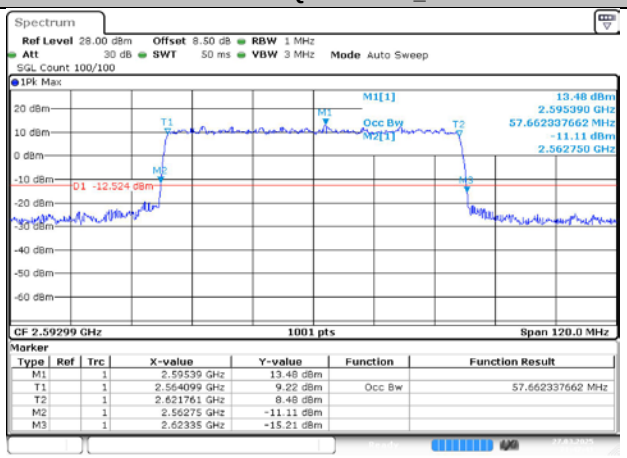
Date: 27.MAR.2025 21:47:00

MCH / CP-QPSK / Outer_Full



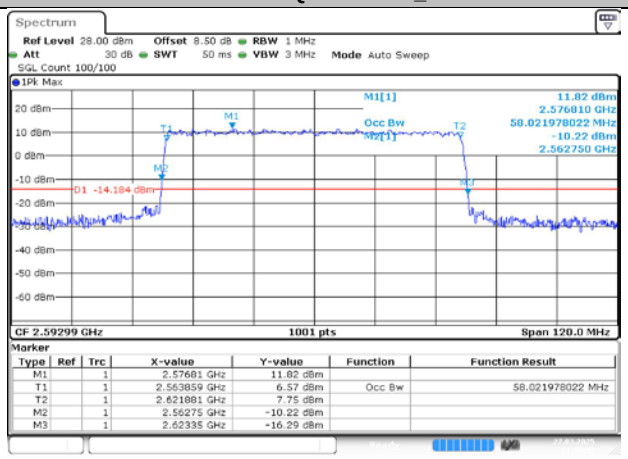
Date: 27.MAR.2025 21:47:34

MCH / CP-16QAM / Outer_Full



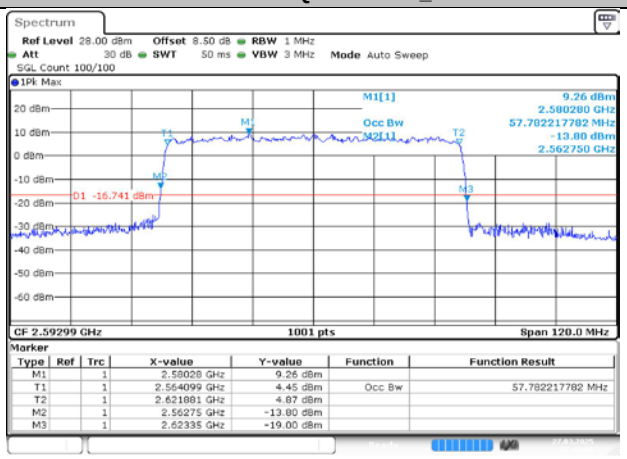
Date: 27.MAR.2025 21:47:42

MCH / CP-64QAM / Outer_Full



Date: 27.MAR.2025 21:47:50

MCH / CP-256QAM / Outer_Full



Date: 27.MAR.2025 21:47:59