

Test Report No:
24B0101R-RFUSV01S-A

TEST REPORT

FCC Rules&Regulations

Product Name	goRAN+ Base Station
Brand Name	
Model No.	BS1AT-D08US
FCC ID	2AXTDBS1ATD08US
Applicant's Name / Address	Ubiik Inc. 19F., No. 17, Sec. 1, Chengde Rd., Datong Dist., Taipei City 103, Taiwan (R.O.C.)
Manufacturer's Name / Address	Ubiik Inc. 19F., No. 17, Sec. 1, Chengde Rd., Datong Dist., Taipei City 103, Taiwan (R.O.C.)
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10-2013
Verdict Summary	IN COMPLIANCE
Documented By	 Amelia Wu
Approved By	 Allen Lin
Date of Receipt	Nov. 04, 2024
Date of Issue	May 28, 2025
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	May 28, 2025

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	AC Power Line Conducted Emission	PASS	-
4	Occupied Bandwidth & DTS Bandwidth	PASS	-
5	Maximum Conducted Output Power	PASS	-
6	Maximum Power Spectral Density	PASS	-
7	Antenna Port Conducted Emission	PASS	-
8	Transmitter Radiated Spurious Emission	PASS	-

Note: The EUT has two different WWAN radio transmitters, one is chip on board and the other is a certified WWAN module (brand name: UBIK, model: RC7611-1, FCC ID: 2AXTDRC76B).

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1. General Information

1.1. EUT Description

Frequency Range	902~928 MHz
Operating Frequency	1.4MHz DL: 925~928 MHz 3MHz DL: 925~928 MHz (UL: 902-915MHz / DL: 925-928MHz)
Channel Number	1.4MHz: 17 Channels 3MHz: 1 Channel
Channel Bandwidth	1.4 MHz / 3 MHz
Type of Modulation	Cat-1: QPSK / 16QAM / 64QAM Cat-M1: QPSK / 16QAM

Accessories Information					
No.	Equipment Name	Brand Name	Model No.	Rating	
1	PoE	PHIHONG	POE60U-BTA	INPUT: 100-240V, 1.5A, 50-60Hz OUTPUT 1: 56V, 0.535A, 30W OUTPUT 2: 56V, 0.535A, 30W	
No.	Equipment Name	Brand Name	Model No.	Description	Remark
2	Power cord	SHEE LINE	SL-2 to SL-3	Non-Shielded, 1.8m	For PoE use
3	MicroSD card	ADATA	IDU3A-016GT	-	Internal of EUT

For SRD Function:

Antenna Information						
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)	Cable Loss (dB)	Actual Gain (dBi)
1	M.gear	C1991-690054-A(SRF2023215)	Dipole	3.41	-	-
2	M.gear	C1991-690053-A(SRF2023215)	Dipole	1.43	-	-
3	Invax	DS0915-0726WNM	Dipole	5.73	-0.8	4.93

Note:

- The EUT supports the 1TX function.
- Since Ant. 1~3 are of the same type, and Ant. 3 is the highest gain and be evaluated.

For GNSS Function:

Antenna Information				
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)
1	Jinchang	JCA225-N	RHCP	5

For WWAN Module:

Antenna Information						
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)		
				Band 2	Band 4	Band 13
1	Grand-Tek	OA-LTEWB-035-C0-UB	OMNI	1.80	0.06	1.40

1.2. EUT Information

EUT Power Type	From PoE				
EUT Function	☒	Point-to-multipoint	☐	Point-to-point	

1.3. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

1.4. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
Test site number for address 1 includes HC-SR02. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
AC Conduction Emission	HC-SR02	Gary Liao	20 / 51	2024/12/05
RF Conducted Emission	HC-SR12	Kevin Teng	23.8~25 / 46~48	2024/11/14~2025/03/06
Radiated Emission	HC-CB02	Scott Chang Cyril Chen Brook Cheng	21.5~23.5 / 53~58 23~25 / 55~58	2024/11/22~2024/11/26, 2025/04/21~2025/04/23

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
AC Power Line Conducted Emission	± 2.34 dB
Occupied Bandwidth & DTS Bandwidth	± 282.55 Hz
Maximum Conducted Output Power	± 1.16 dB
Maximum Power Spectral Density	± 2.47 dB
Antenna Port Conducted Emission	± 2.47 dB
Transmitter Radiated Spurious Emission	± 3.52 dB below 1 GHz ± 3.56 dB above 1 GHz

1.6. List of Test Equipment

HC-SR02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	9kHz-30MHz, 4line/100A	2023/12/15	2024/12/14
EMI Test Receiver	R&S	ESR3	102608	9 kHz - 3.6 GHz	2023/09/19	2024/09/18
Two-Line V-Network	R&S	ENV216	100096	9kHz-30MHz	2024/06/03	2025/06/02
Coaxial Cable(9 m)	Harbour	RG-400	HC-SR02	9 kHz–2500 MHz	2023/08/04	2024/08/03
EMI Testing System	Audix	e3 210616 dekra V9	HC-SR02	N/A	N/A	N/A

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	0.3-40 GHz	2024/10/29	2025/10/28
Pulse Power Sensor	Anritsu	MA2411B	1531043	0.3-40 GHz	2024/10/29	2025/10/28
Pulse Power Sensor	Anritsu	MA2411B	1531044	0.3-40 GHz	2024/10/29	2025/10/28
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2024/06/20	2025/06/19

HC-CB02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal and Spectrum Analyzer	R&S	FSVA40	101435	10 Hz-40 GHz	2024/05/17	2025/05/16
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1272	30 MHz-2 GHz	2024/04/29	2025/04/28
Double Ridged Horn Antenna	RF SPIN	DRH18-E	211212A18EN	1G-18GHz	2024/11/08	2025/11/07
Horn Antenna	Schwarzbeck	BBHA 9170	203	18G-40GHz	2024/02/02	2025/02/01
Pre-Amplifier	EMCI	EMC01820I	980365	30M-8 GHz,20 dB	2024/04/02	2025/04/01
Pre-Amplifier	EMCI	EMC01820I	980365	30M-8 GHz,20 dB	2025/03/20	2026/03/19
Pre-Amplifier	EMEC	EM01G18GA	060741	1G-18 GHz,50 dB	2024/04/23	2025/04/22
Pre-Amplifier	EMEC	EM01G18GA	060741	1G-18 GHz,50 dB	2525/04/14	2526/04/13
Pre-Amplifier	DEKRA	AP-400C	201801231	18G-40 GHz,48 dB	2024/10/15	2025/10/14
EMI Test Receiver	R&S	ESR7	102260	10 Hz-7 GHz	2024/11/15	2025/11/14
Magnetic Loop Antenna	Teseq	HLA 6121	44287	0.01-30 MHz	2024/10/17	2025/10/16
Coaxial Cable(13m)	Suhner	SF104	HC-CB02	30M-18 GHz	2024/08/13	2025/08/12
Coaxial Cable(3m)	Suhner,Rosnol	SF102_UP0264	HC-CB02-1	18G-40 GHz 3 m	2024/08/13	2025/08/12
Radiated Software	Audix	e3 V9	HC-CB02_1	N/A	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	AC 120V/60Hz

2.2. Test Frequency Mode

Test Software	TeraTerm
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Note: Communicate with the base station for continuous transmitter and receiver.

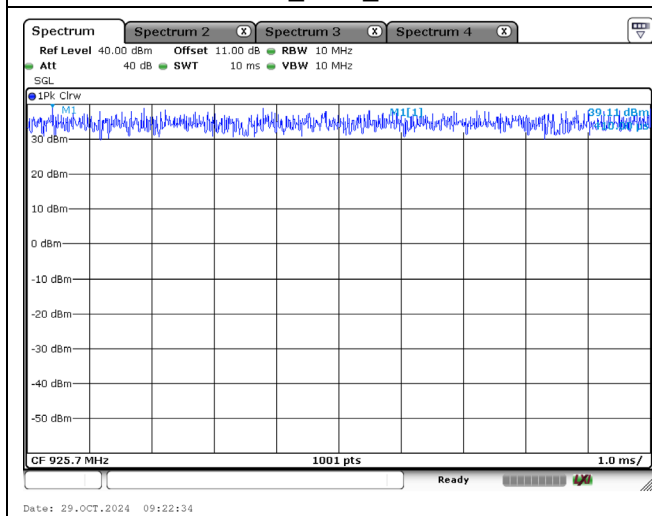
Modulation	Frequency (MHz)	Power Setting
Cat-1_1.4M_QPSK	925.7	63
	927.3	63
Cat-1_3M_QPSK	926.5	63
Cat-M1_1.4M_QPSK	925.7	63
	927.3	63
Cat-M1_3M_QPSK	926.5	63
Cat-1_1.4M_16QAM	925.7	63
	927.3	63
Cat-1_3M_16QAM	926.5	63
Cat-M1_1.4M_16QAM	925.7	63
	927.3	63
Cat-M1_3M_16QAM	926.5	63
Cat-1_1.4M_64QAM	925.7	63
	927.3	63
Cat-1_1.4M_64QAM	926.3	63

2.3. Duty Cycle

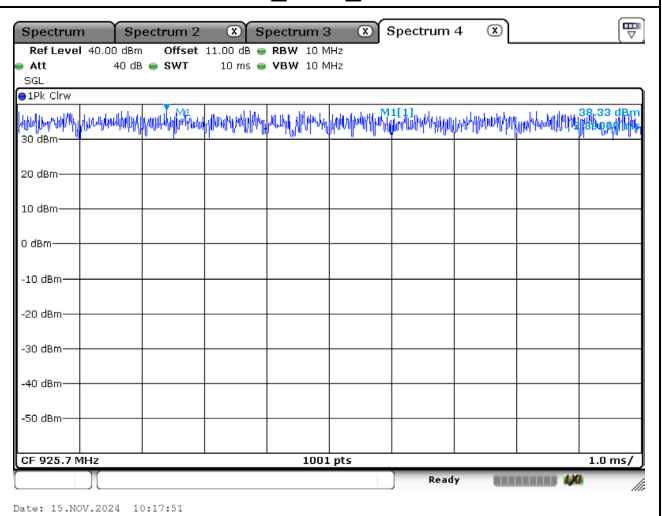
Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
Cat-1_1.4M_QPSK	-	-	100.00	0.000	0.010
Cat-1_3M_QPSK	-	-	100.00	0.000	0.010
Cat-M1_1.4M_QPSK	-	-	100.00	0.000	0.010
Cat-M1_3M_QPSK	-	-	100.00	0.000	0.010
Cat-1_1.4M_16QAM	-	-	100.00	0.000	0.010
Cat-1_3M_16QAM	-	-	100.00	0.000	0.010
Cat-M1_1.4M_16QAM	-	-	100.00	0.000	0.010
Cat-M1_3M_16QAM	-	-	100.00	0.000	0.010
Cat-1_1.4M_64QAM	-	-	100.00	0.000	0.010
Cat-1_3M_64QAM	-	-	100.00	0.000	0.010

Note: The duty factor will compensate for the total power and power spectral density.

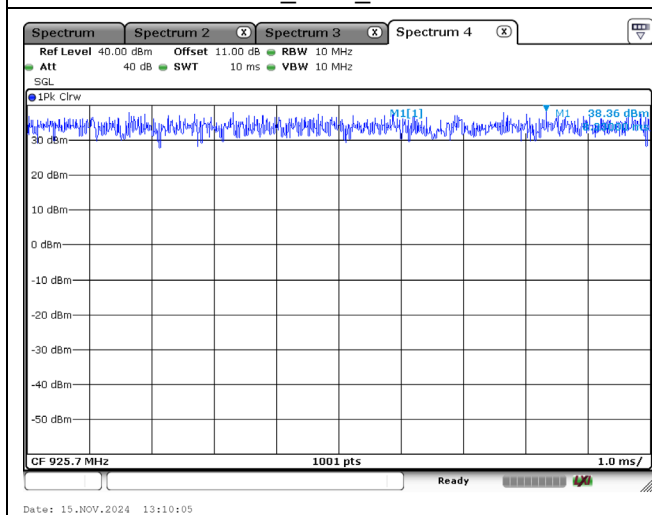
Cat-1_1.4M_QPSK



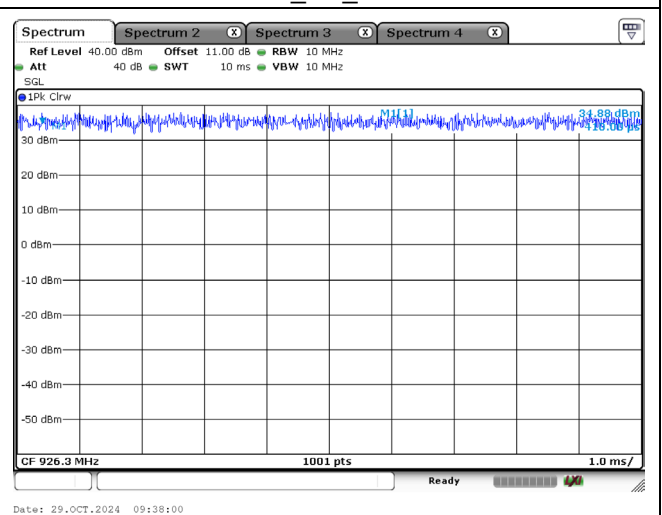
Cat-1_1.4M_16QAM



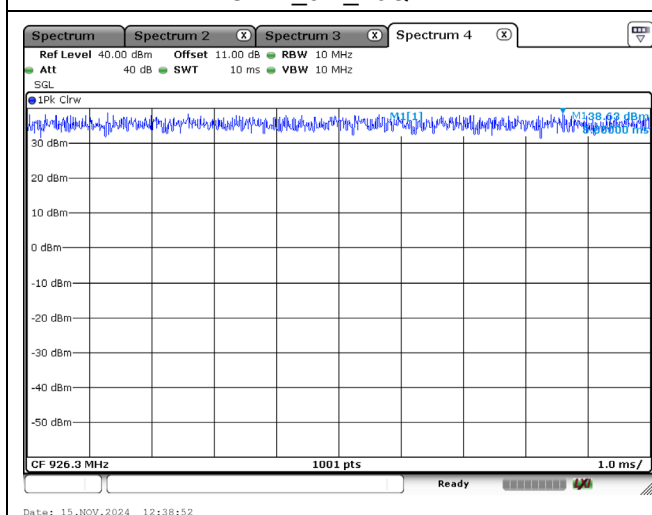
Cat-1_1.4M_64QAM



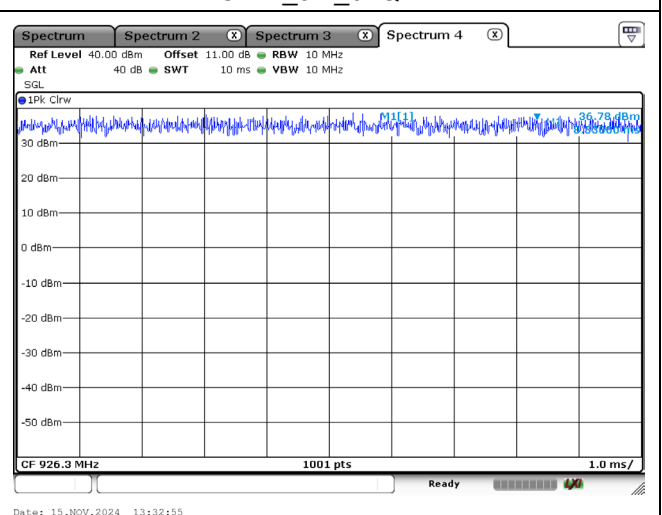
Cat-1_3M_QPSK

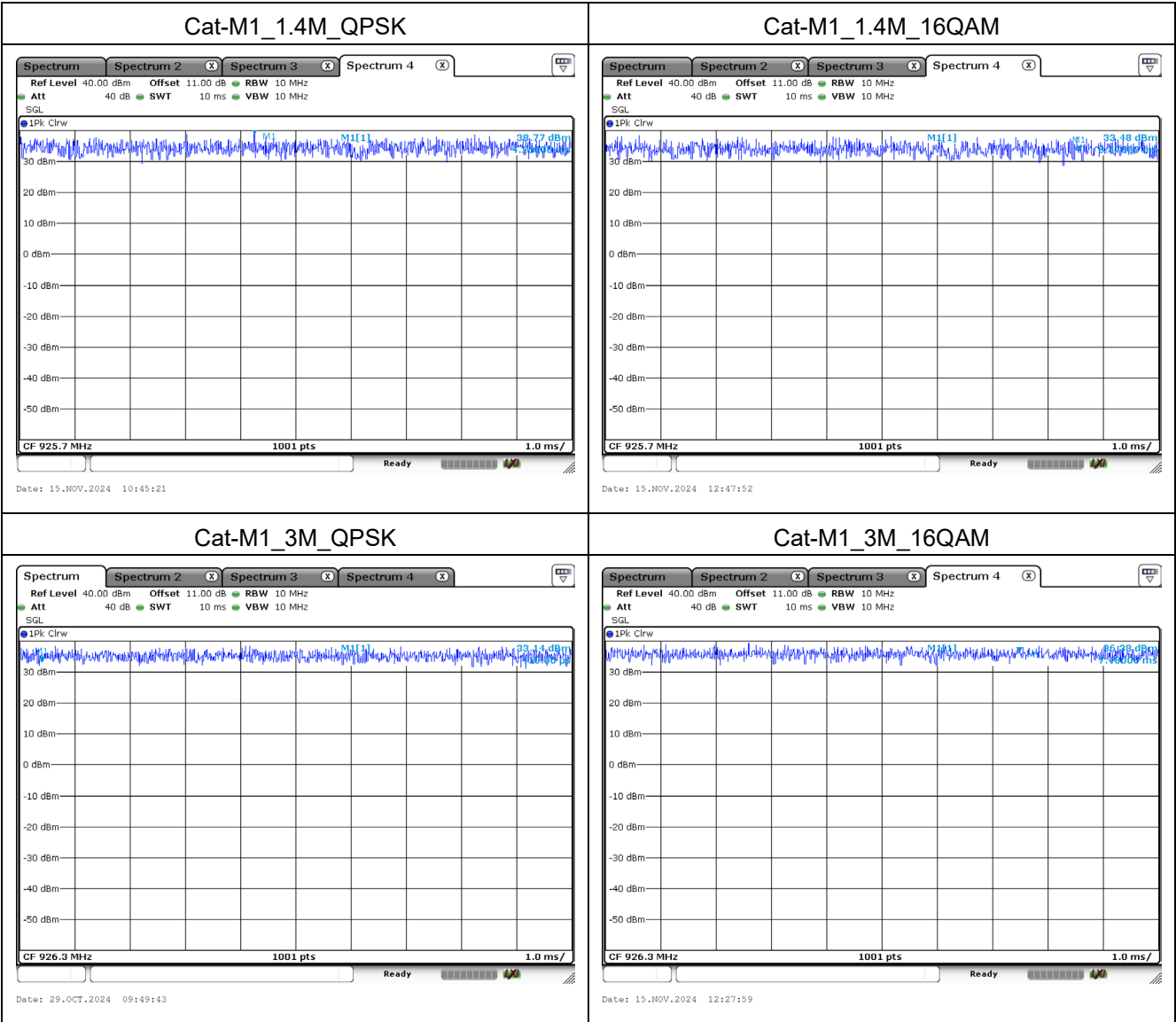


Cat-1_3M_16QAM



Cat-1_3M_64QAM





2.4. The Worst Case Measurement Configuration

Tests Item	AC Power Line Conducted Emission
Test Condition	AC power line conducted measurement for line and neutral
Operating Mode	Transmit
1	EUT + PoE 1 (Model No.: POE60U-BTA)
2	EUT + PoE 2 (Model No.: POEO75U-1BT)

Tests Item	Occupied Bandwidth & DTS Bandwidth Maximum Conducted Output Power Maximum Power Spectral Density Antenna Port Conducted Emission
Test Condition	Conducted measurement at transmit chains

Tests Item	Transmitter Radiated Spurious Emission
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Transmit
1	EUT + PoE 1 (Model No.: POE60U-BTA)
2	EUT + PoE 2 (Model No.: POEO75U-1BT)
Operating Mode > 1GHz	Transmit

Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. For radiated spurious emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.

2.5. Tested System Details

Test Mode: Mode 1

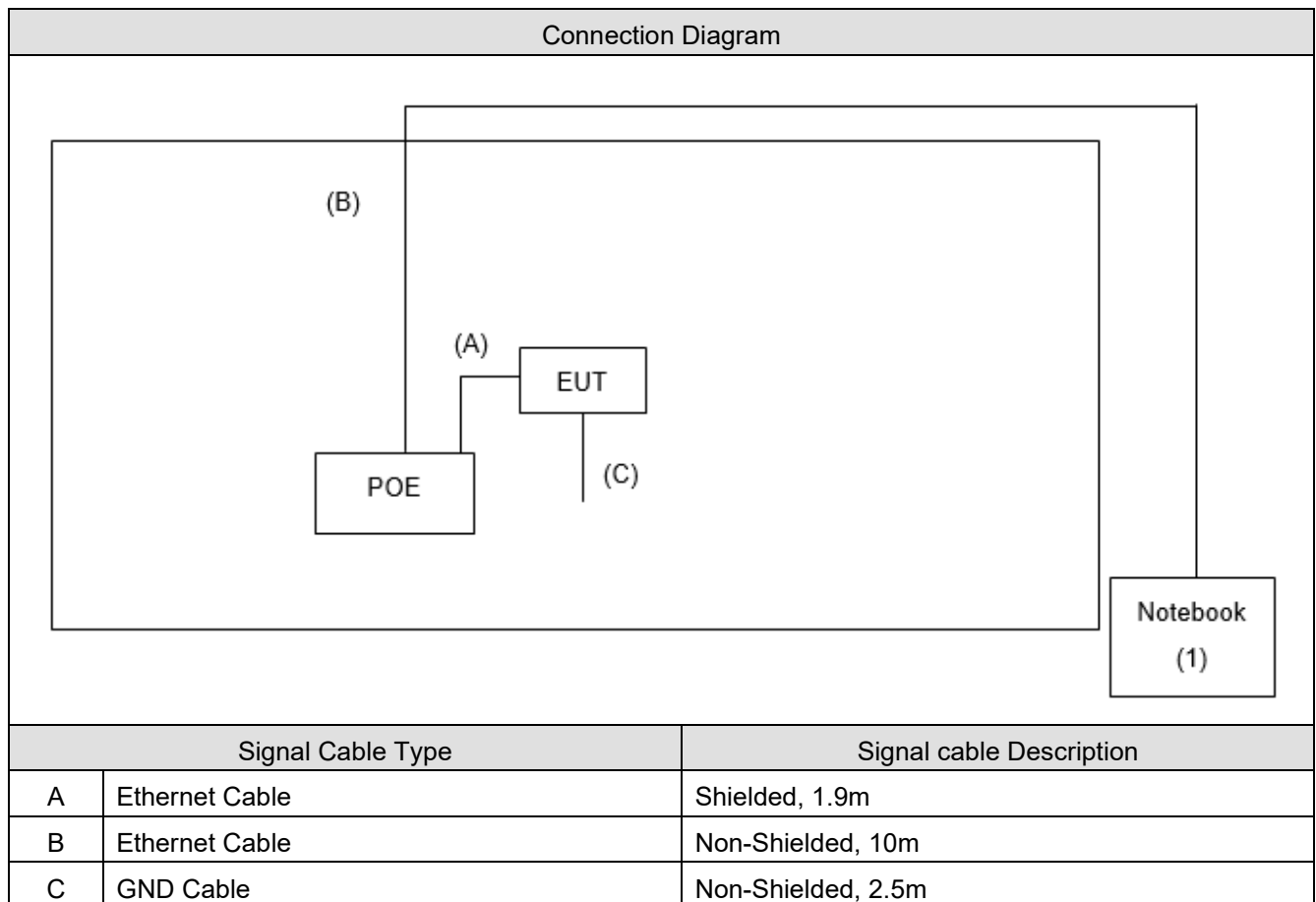
No.	Equipment	Brand Name	Model No.	Serial No.
1	Notebook	ASUS	E402S	GBN0CV14W224476

Test Mode: Mode 2

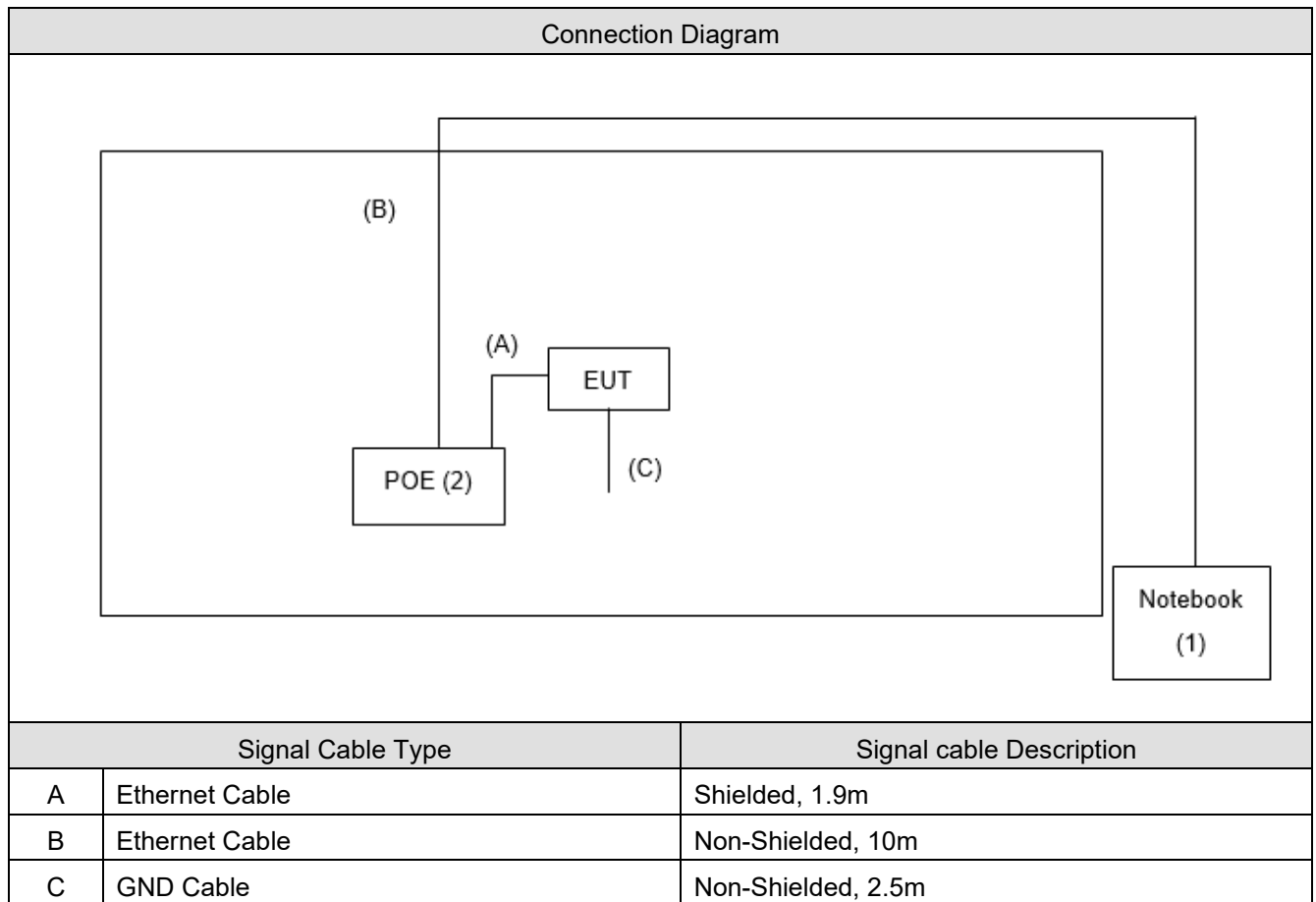
No.	Equipment	Brand Name	Model No.	Serial No.
1	Notebook	ASUS	E402S	GBN0CV14W224476
2	PoE	PHIHONG	POEO75U-1BT	N/A

2.6. Configuration of Tested System

Test Mode: Mode 1

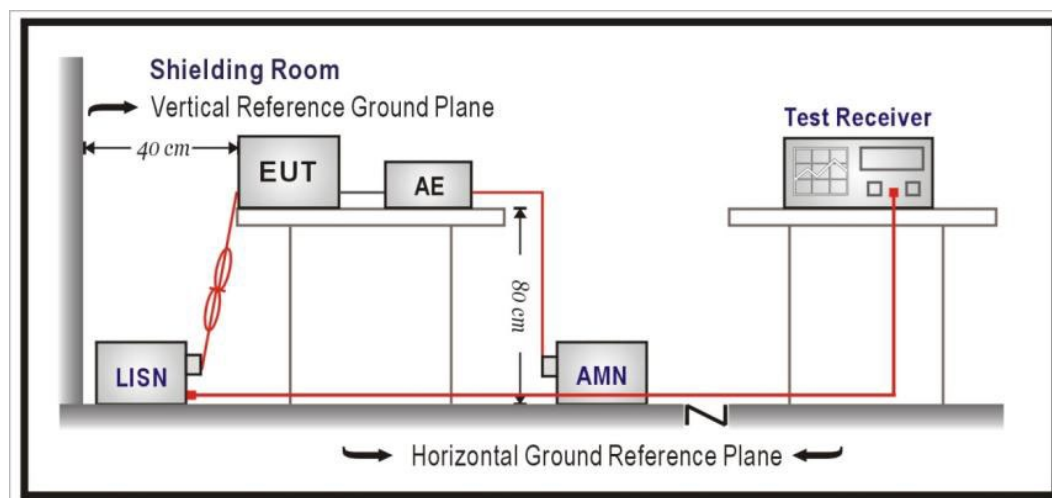


Test Mode: Mode 2



3. AC Power Line Conducted Emission

3.1. Test Setup



3.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

3.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

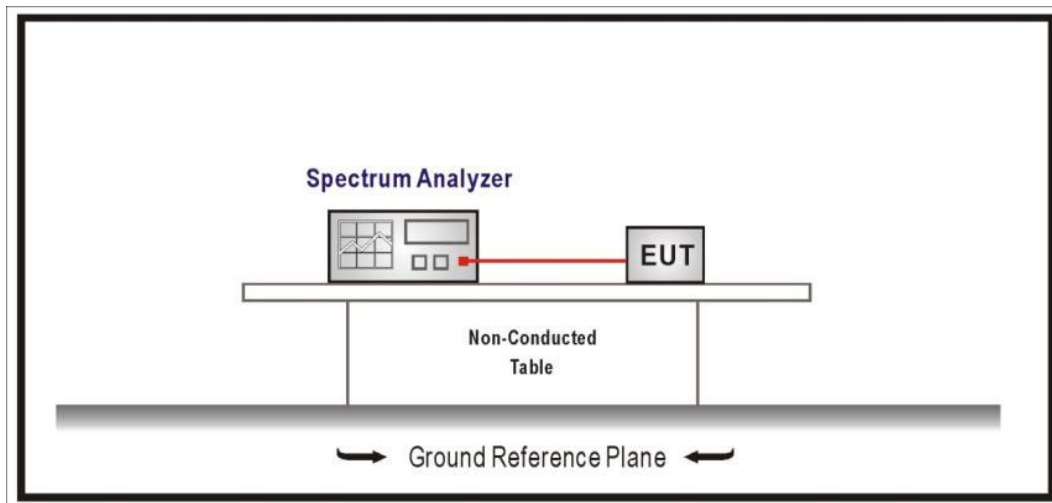
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A

4. Occupied Bandwidth & DTS Bandwidth

4.1. Test Setup



4.2. Test Limit

The 6 dB bandwidth: ≥ 0.50 MHz.

Occupied Bandwidth: N/A

4.3. Test Procedures

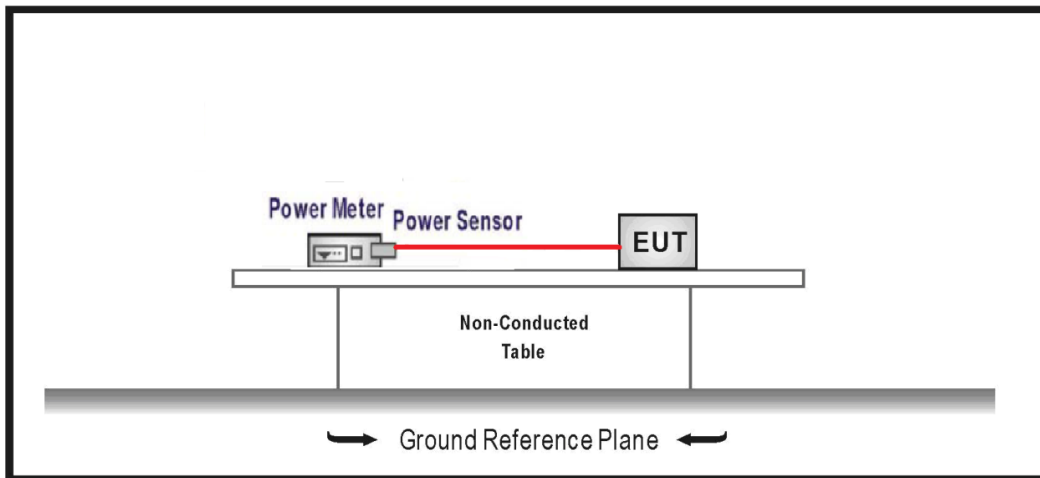
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

4.4. Test Result of Occupied Bandwidth & DTS Bandwidth

Refer as Appendix B

5. Maximum Conducted Output Power

5.1. Test Setup



5.2. Test Limit

The maximum conducted output power shall be less 30 dBm (1 Watt).

5.3. Test Procedures

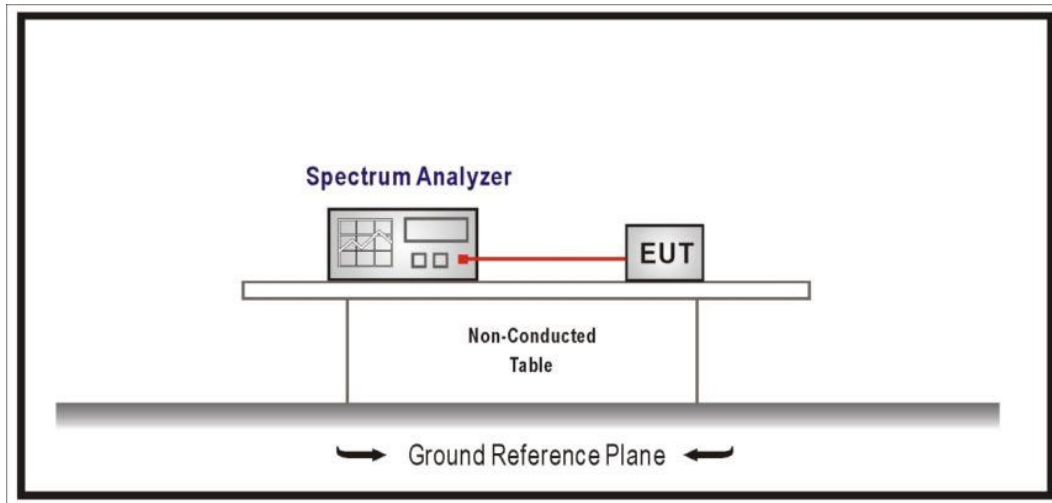
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

5.4. Test Result of Maximum Conducted Output Power

Refer as Appendix C

6. Maximum Power Spectral Density

6.1. Test Setup



6.2. Test Limit

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission.

6.3. Test Procedures

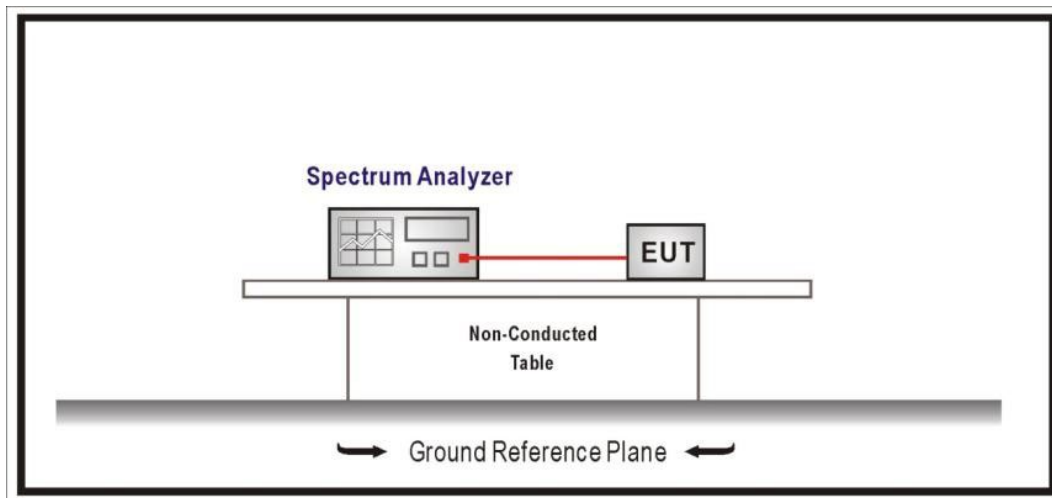
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

6.4. Test Result of Maximum Power Spectral Density

Refer as Appendix D

7. Antenna Port Conducted Emission

7.1. Test Setup



7.2. Test Limit

RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30

Remarks:

1. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limit.
2. If the transmitter complies with the conducted power limit based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

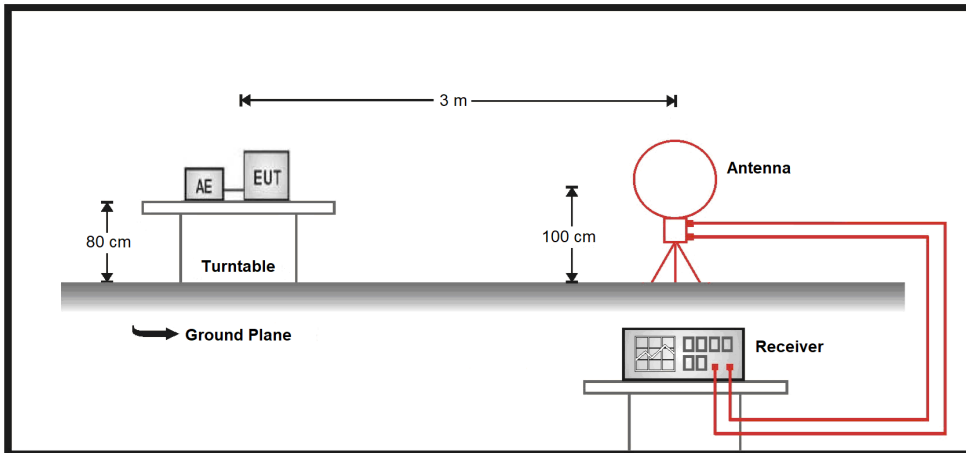
7.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix E

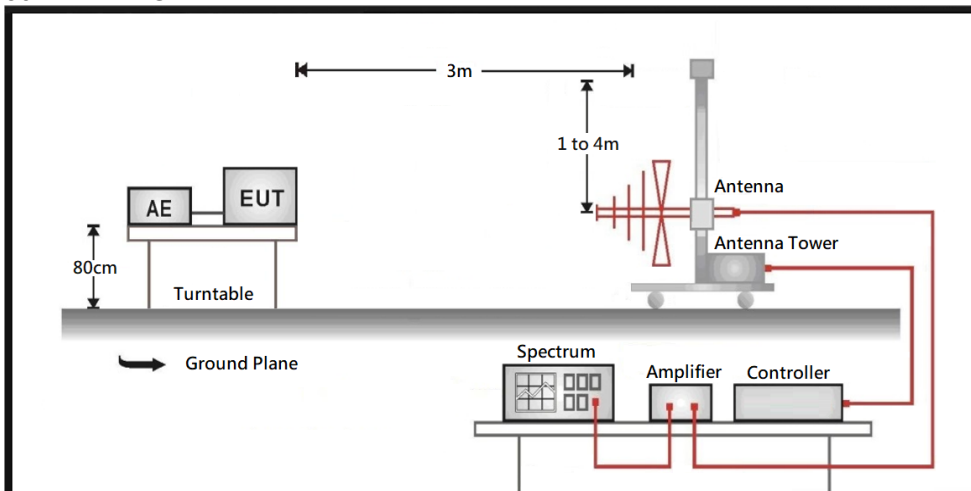
8. Transmitter Radiated Spurious Emission

8.1. Test Setup

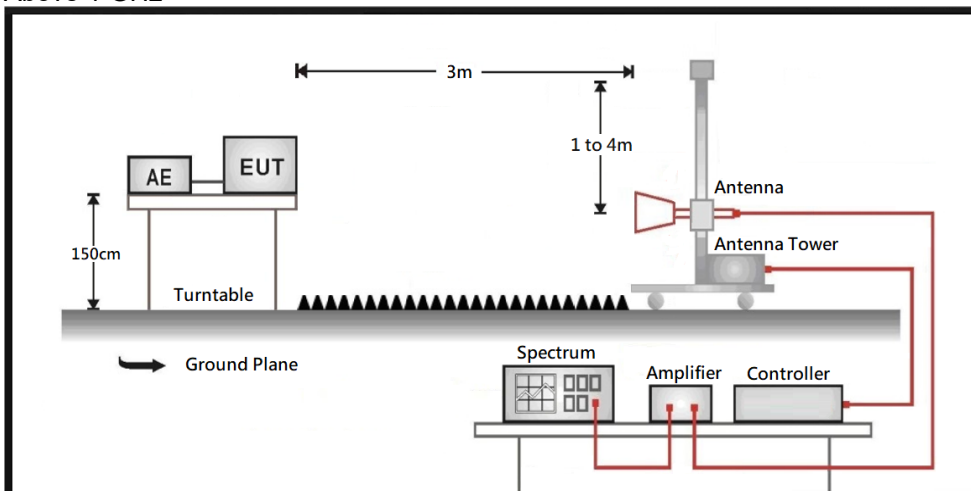
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



8.2. Test Limit

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

8.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

On any frequency or frequencies from 9 kHz(include The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

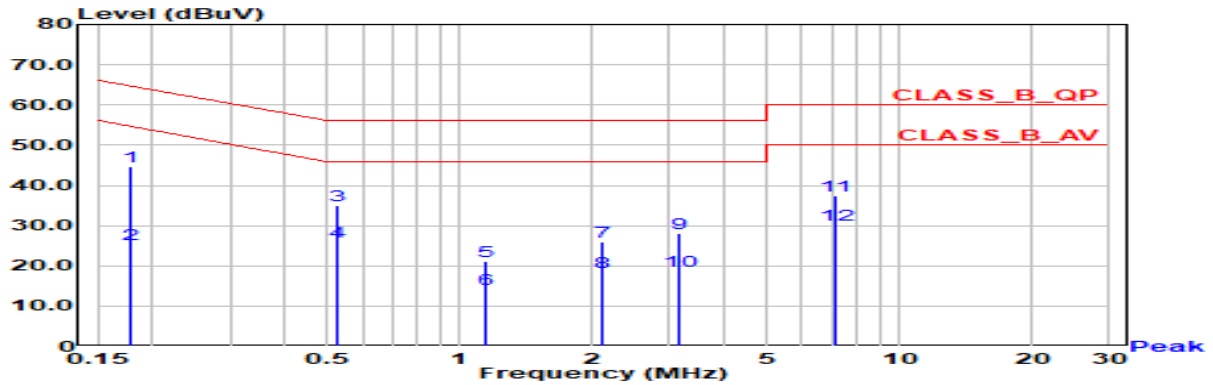
The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

8.4. Test Result of Transmitter Radiated Spurious Emission

Refer as Appendix F

Appendix A. Test Result of AC Power Line Conducted Emission

Test Mode	Mode 1	Phase	Line
Test Condition	Cat-1_1.4MHz_QPSK_925.7 MHz		

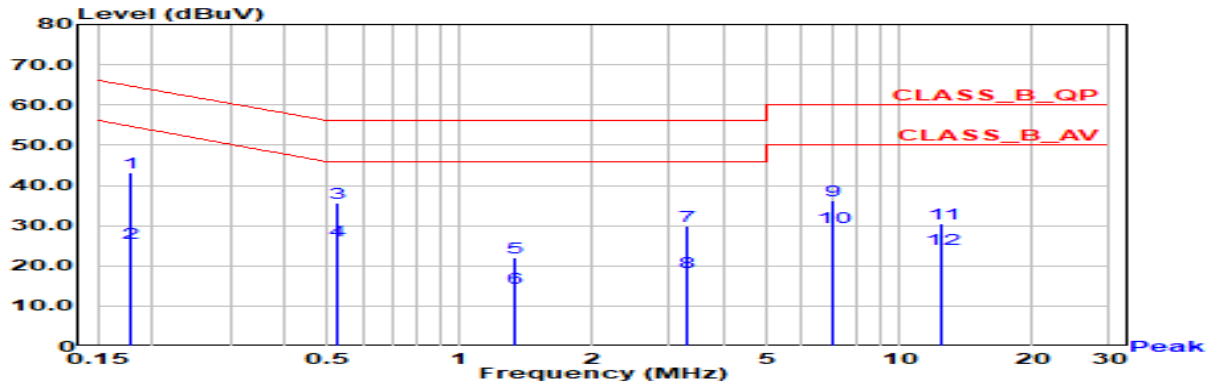


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.179	44.16	64.62	-20.46	34.5	9.66	QP
2	0.179	24.77	54.62	-29.85	15.11	9.66	AV
3	0.522	34.98	56	-21.02	25.31	9.67	QP
4	0.522	25.89	46	-20.11	16.22	9.67	AV
5	1.11	20.83	56	-35.17	11.11	9.72	QP
6	1.11	14.21	46	-31.79	4.49	9.72	AV
7	2.111	25.97	56	-30.03	16.11	9.86	QP
8	2.111	18.63	46	-27.37	8.77	9.86	AV
9	3.155	28	56	-28	18.11	9.89	QP
10	3.155	18.77	46	-27.23	8.88	9.89	AV
11	7.117	37.35	60	-22.65	27.33	10.02	QP
*12	7.117	30.24	50	-19.76	20.22	10.02	AV

Note:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 1	Phase	Neutral
Test Condition	Cat-1_1.4MHz_QPSK_925.7 MHz		

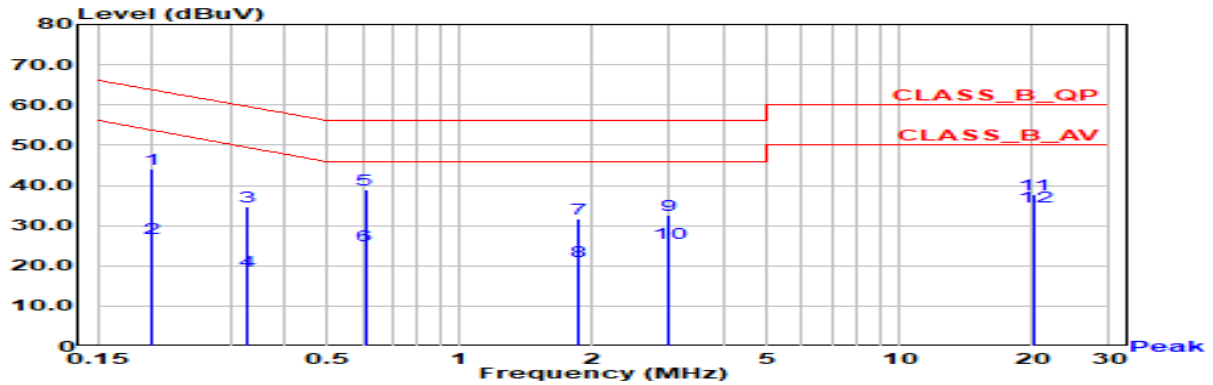


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.175	44.17	64.63	-20.46	34.51	9.66	QP
2	0.175	25.81	54.63	-28.82	16.15	9.66	AV
3	0.533	36.28	56	-19.72	26.61	9.67	QP
4	0.533	25.78	46	-20.22	16.11	9.67	AV
5	1.341	22.63	56	-33.37	12.88	9.75	QP
6	1.341	14.86	46	-31.14	5.11	9.75	AV
7	3.279	30.12	56	-25.88	20.21	9.91	QP
8	3.279	18.79	46	-27.21	8.88	9.91	AV
9	7.11	36.64	60	-23.36	26.6	10.04	QP
10	7.11	29.92	50	-20.08	19.88	10.04	AV
11	12.515	30.58	60	-29.42	20.33	10.25	QP
*12	12.515	24.36	50	-25.64	14.11	10.25	AV

Note:

1. "" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 2	Phase	Line
Test Condition	Cat-1_1.4MHz_QPSK_925.7 MHz		

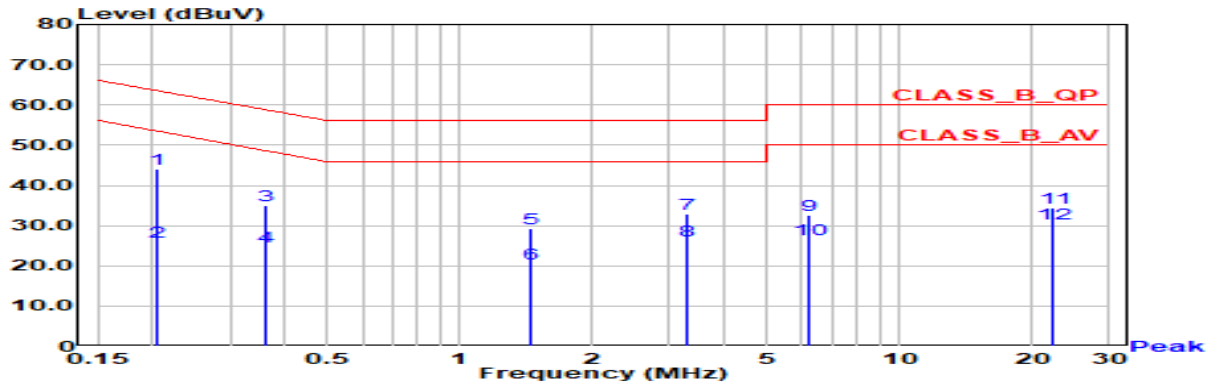


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.200	44.00	63.62	-19.63	34.33	9.67	QP
2	0.200	26.91	53.62	-26.72	17.24	9.67	AV
3	0.328	34.73	59.50	-24.78	25.06	9.67	QP
4	0.328	18.61	49.50	-30.90	8.94	9.67	AV
5	0.608	38.83	56.00	-17.17	29.16	9.68	QP
6	0.608	25.09	46.00	-20.91	15.41	9.68	AV
7	1.872	31.63	56.00	-24.37	21.78	9.85	QP
8	1.872	21.25	46.00	-24.75	11.40	9.85	AV
9	2.995	32.56	56.00	-23.44	22.66	9.90	QP
10	2.995	25.66	46.00	-20.34	15.76	9.90	AV
11	20.218	37.75	60.00	-22.25	27.50	10.25	QP
*12	20.218	34.70	50.00	-15.30	24.44	10.25	AV

Note:

1. "" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 2	Phase	Neutral
Test Condition	Cat-1_1.4MHz_QPSK_925.7 MHz		



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.205	44.03	63.40	-19.37	34.36	9.67	QP
2	0.205	26.08	53.40	-27.32	16.41	9.67	AV
3	0.360	34.99	58.72	-23.73	25.32	9.67	QP
4	0.360	24.68	48.72	-24.04	15.01	9.67	AV
5	1.453	29.42	56.00	-26.58	19.64	9.78	QP
6	1.453	20.65	46.00	-25.35	10.88	9.78	AV
7	3.302	32.86	56.00	-23.14	22.95	9.91	QP
8	3.302	26.17	46.00	-19.83	16.26	9.91	AV
9	6.232	32.75	60.00	-27.25	22.76	9.99	QP
10	6.232	26.70	50.00	-23.30	16.71	9.99	AV
11	22.373	34.43	60.00	-25.57	24.15	10.29	QP
12	22.373	30.50	50.00	-19.50	20.22	10.29	AV

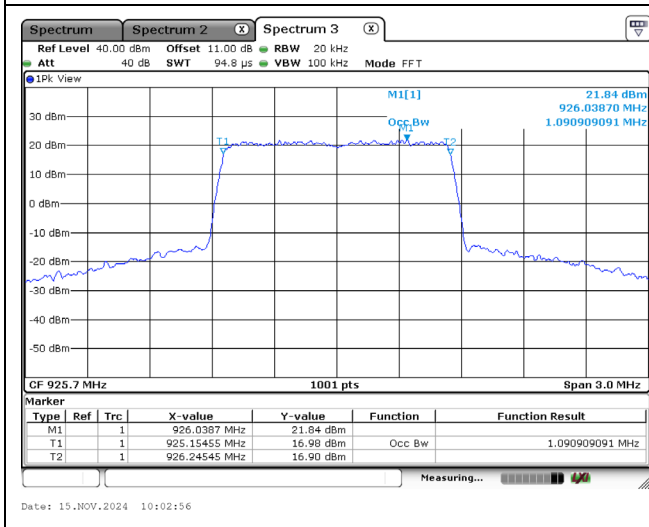
Note:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

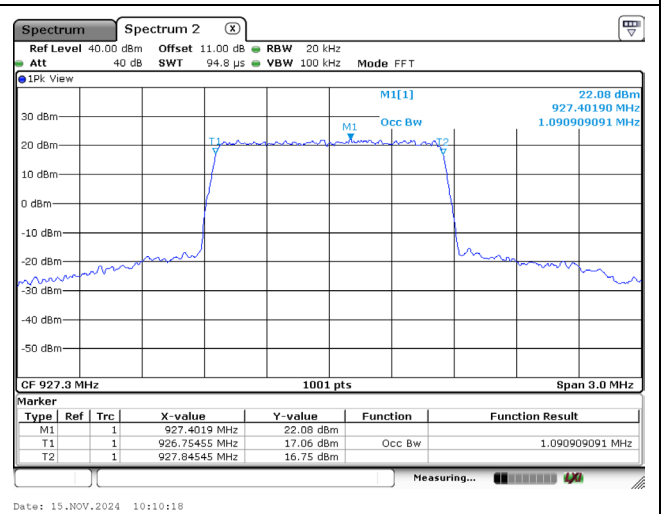
Appendix B.1 Test Result of Occupied Bandwidth

Modulation	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)
Cat-1_1.4MHz_QPSK	925.7	1.090	-
	927.3	1.090	-
Cat-1_3MHz_QPSK	926.5	2.661	-
Cat-M1_1.4MHz_QPSK	925.7	1.087	-
	927.3	1.090	-
Cat-M1_3MHz_QPSK	926.5	2.661	-
Cat-1_1.4MHz_16QAM	925.7	1.090	-
	927.3	1.093	-
Cat-1_3MHz_16QAM	926.5	2.661	-
Cat-M1_1.4MHz_16QAM	925.7	1.090	-
	927.3	1.087	-
Cat-M1_3MHz_16QAM	926.5	2.661	-
Cat-1_1.4MHz_64QAM	925.7	1.090	-
	927.3	1.090	-
Cat-1_3MHz_64QAM	926.5	2.667	-

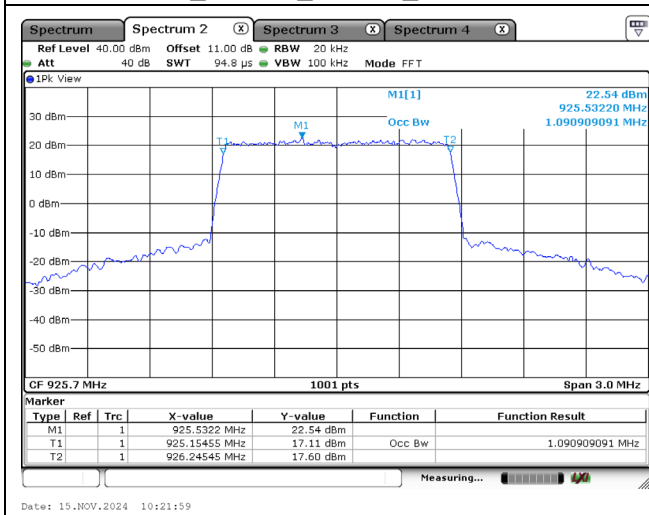
Cat-1_1.4MHz_QPSK_925.7 MHz



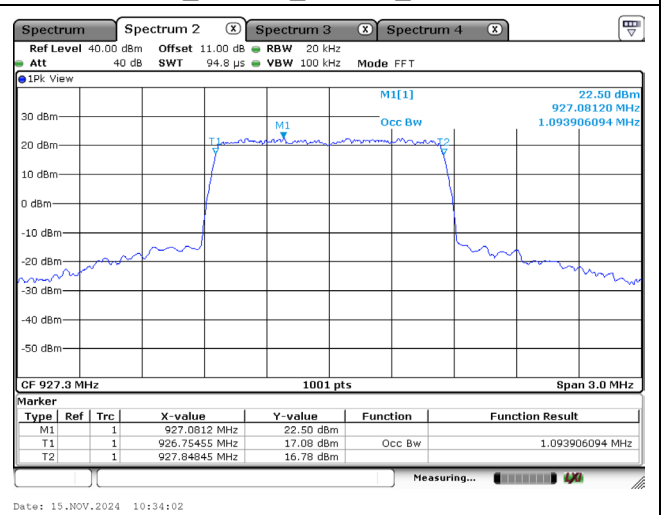
Cat-1_1.4MHz_QPSK_927.3 MHz



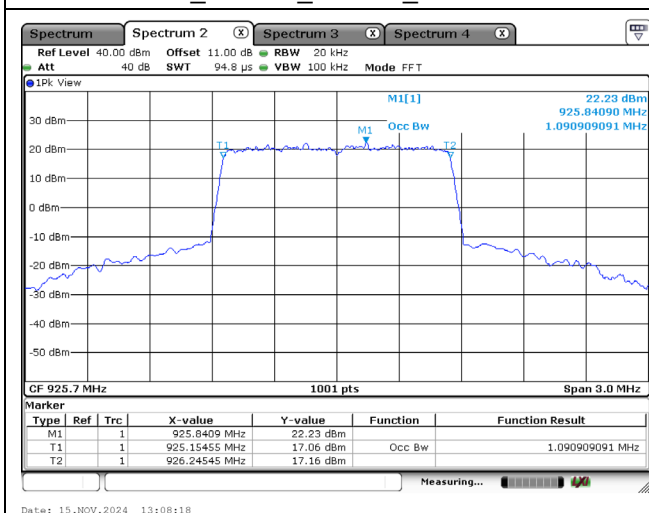
Cat-1_1.4MHz_16QAM_925.7 MHz



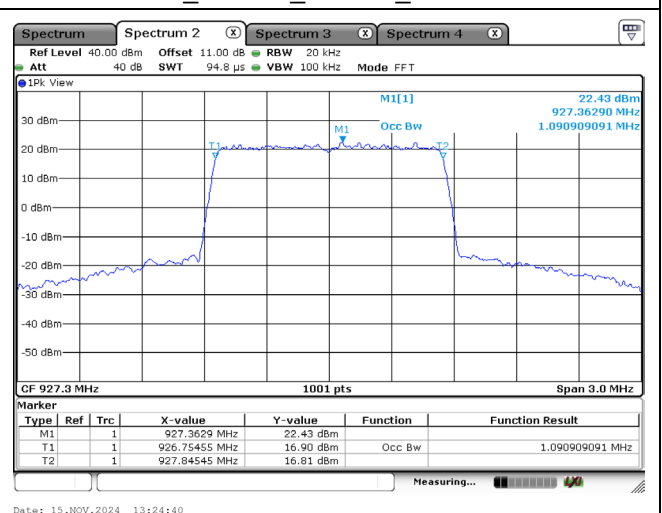
Cat-1_1.4MHz_16QAM_927.3 MHz



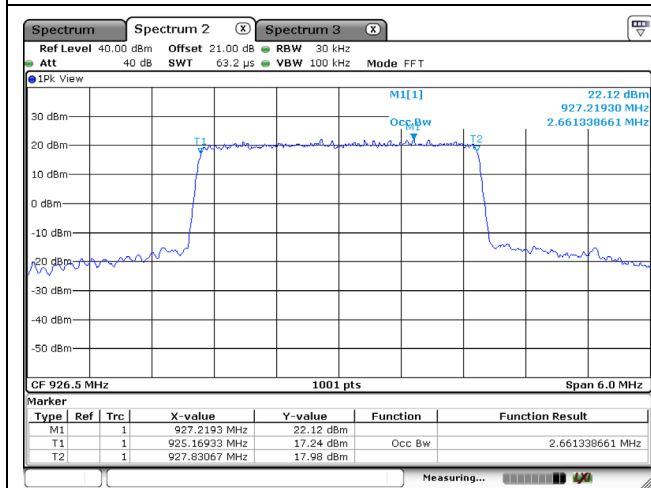
Cat-1_1.4MHz_64QAM_925.7 MHz



Cat-1_1.4MHz_64QAM_927.3 MHz

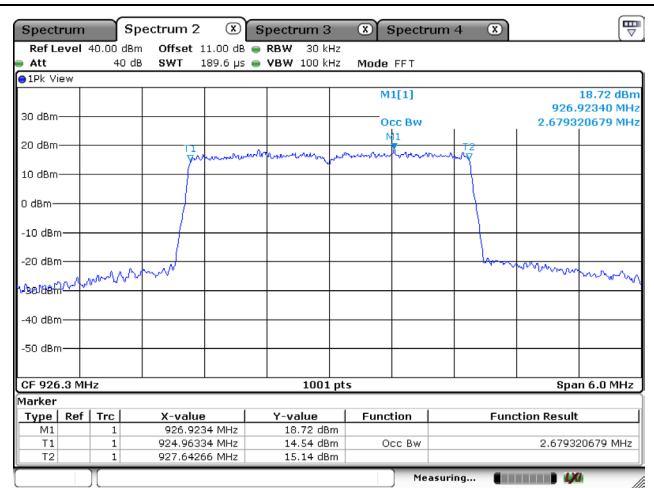


Cat-1_3MHz_QPSK_926.5 MHz



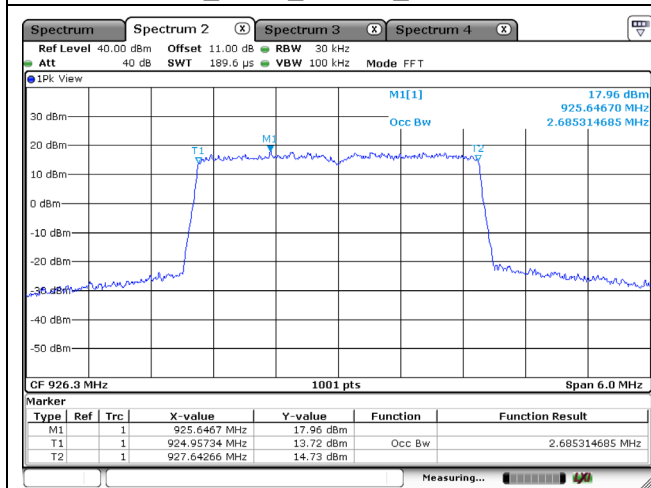
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Cat-1_3MHz_16QAM_926.5 MHz



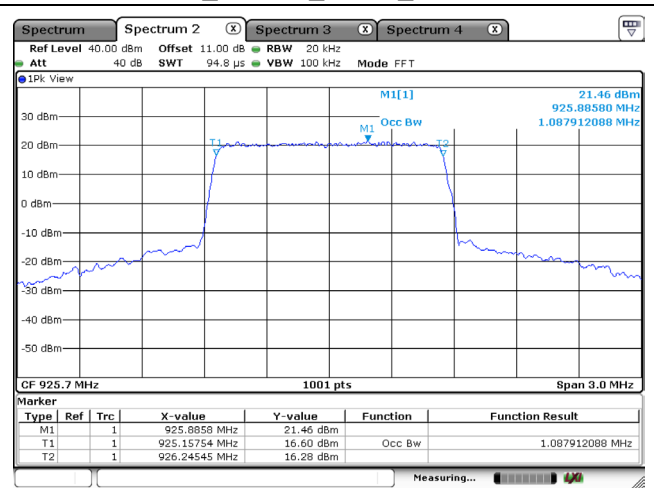
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Cat-1_3MHz_64QAM_926.5 MHz



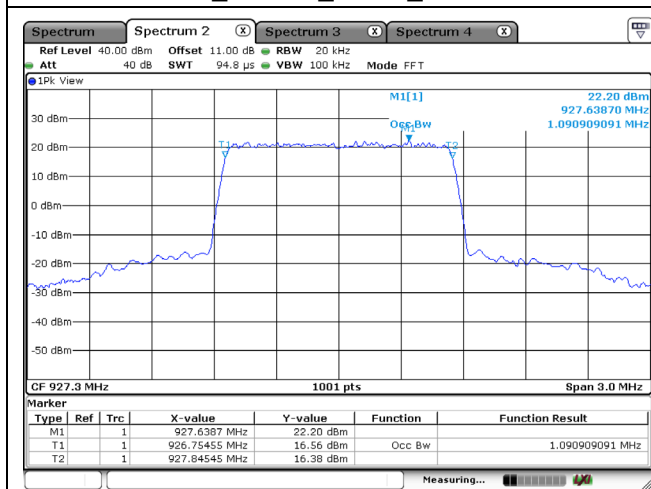
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Cat-M1_1.4MHz_QPSK_925.7 MHz



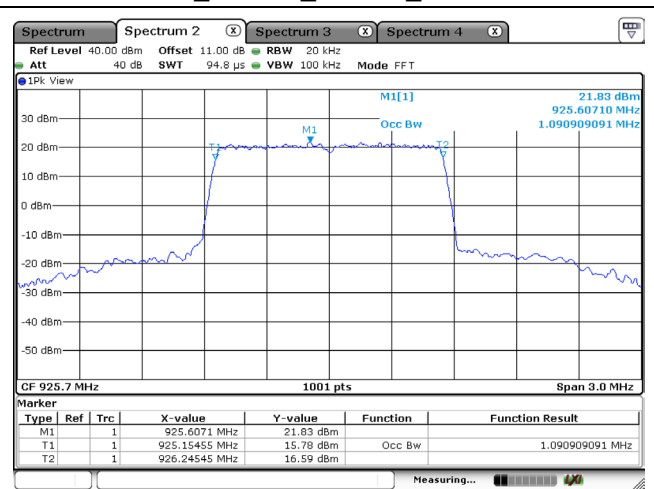
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Cat-M1_1.4MHz_QPSK_927.3 MHz

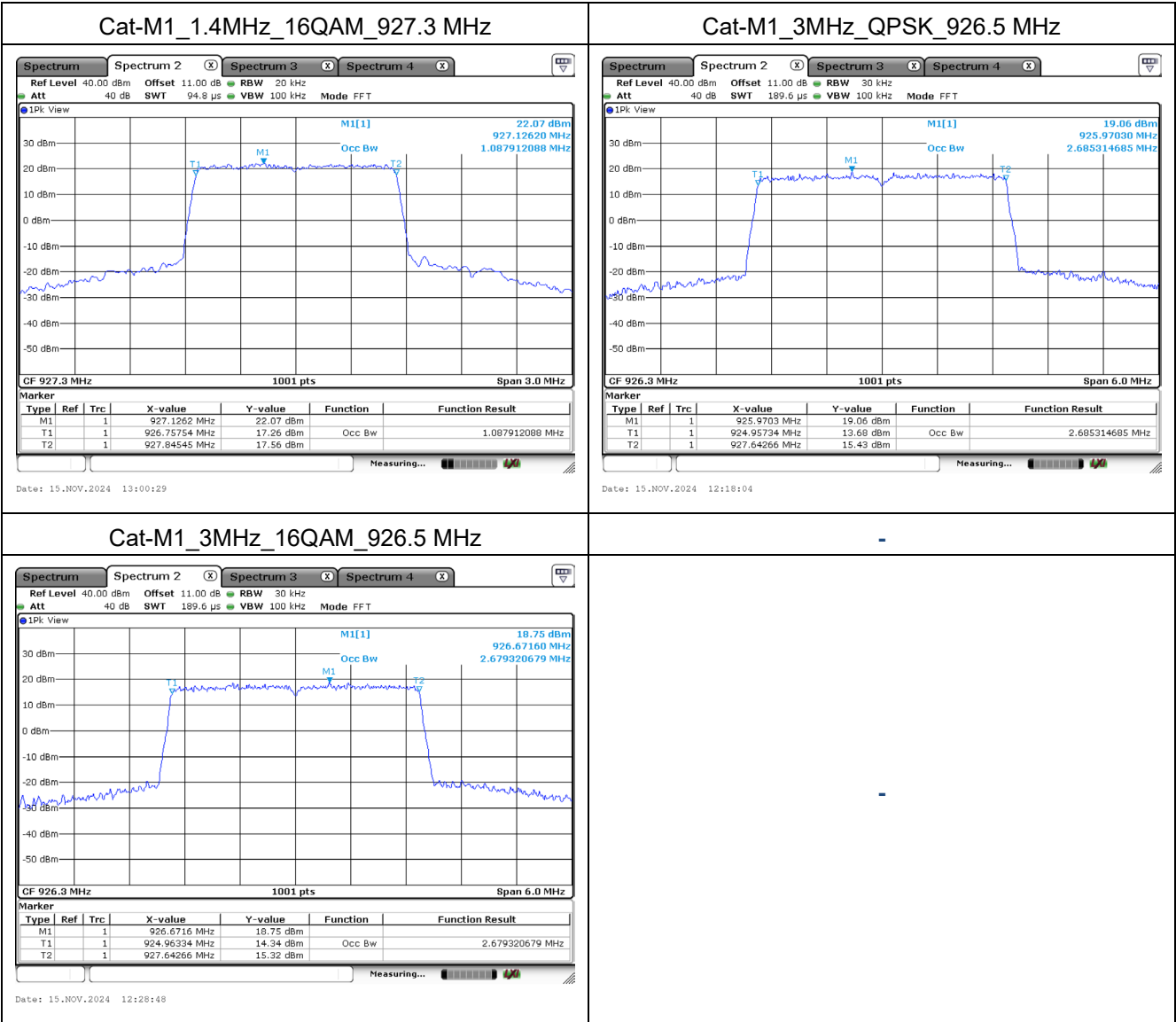


Date: 15.NOV.2024 10:57:54

Cat-M1_1.4MHz_16QAM_925.7 MHz



Date: 15.NOV.2024 12:50:54



Appendix B.2 Test Result of DTS Bandwidth

Modulation	Frequency (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	Result
Cat-1_1.4M_QPSK	925.7	1.104	0.50	Pass
	927.3	1.104	0.50	Pass
Cat-1_3M_QPSK	926.5	2.683	0.50	Pass
Cat-M1_1.4M_QPSK	925.7	1.104	0.50	Pass
	927.3	1.102	0.50	Pass
Cat-M1_3M_QPSK	926.5	2.689	0.50	Pass
Cat-1_1.4M_16QAM	925.7	1.114	0.50	Pass
	927.3	1.122	0.50	Pass
Cat-1_3M_16QAM	926.5	2.701	0.50	Pass
Cat-M1_1.4M_16QAM	925.7	1.113	0.50	Pass
	927.3	1.126	0.50	Pass
Cat-M1_3M_16QAM	926.5	2.705	0.50	Pass
Cat-1_1.4M_64QAM	925.7	1.118	0.50	Pass
	927.3	1.130	0.50	Pass
Cat-1_3M_64QAM	926.5	2.681	0.50	Pass

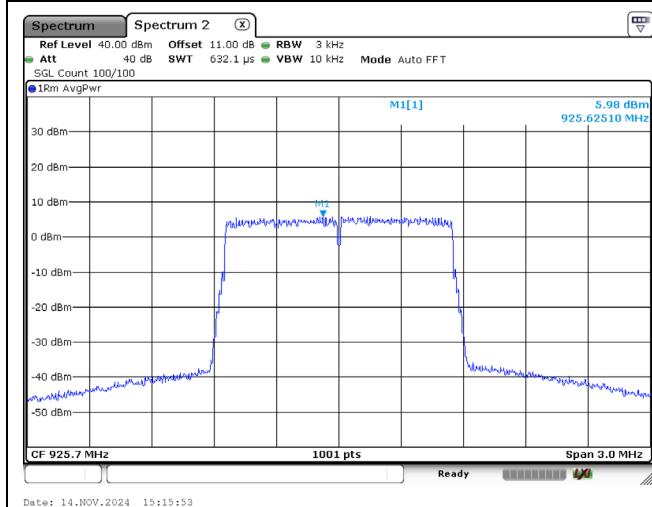
Appendix C. Test Result of Maximum Conducted Output Power

Modulation	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)	Limit (MHz)	Result
Cat-1_1.4M_QPSK	925.7	29.52	30.00	Pass
	927.3	29.49	30.00	Pass
Cat-1_3M_QPSK	926.5	29.72	30.00	Pass
Cat-M1_1.4M_QPSK	925.7	29.46	30.00	Pass
	927.3	29.87	30.00	Pass
Cat-M1_3M_QPSK	926.5	29.70	30.00	Pass
Cat-1_1.4M_16QAM	925.7	29.60	30.00	Pass
	927.3	29.63	30.00	Pass
Cat-1_3M_16QAM	926.5	29.60	30.00	Pass
Cat-M1_1.4M_16QAM	925.7	29.47	30.00	Pass
	927.3	29.55	30.00	Pass
Cat-M1_3M_16QAM	926.5	29.59	30.00	Pass
Cat-1_1.4M_64QAM	925.7	29.46	30.00	Pass
	927.3	29.74	30.00	Pass
Cat-1_3M_64QAM	926.5	29.66	30.00	Pass

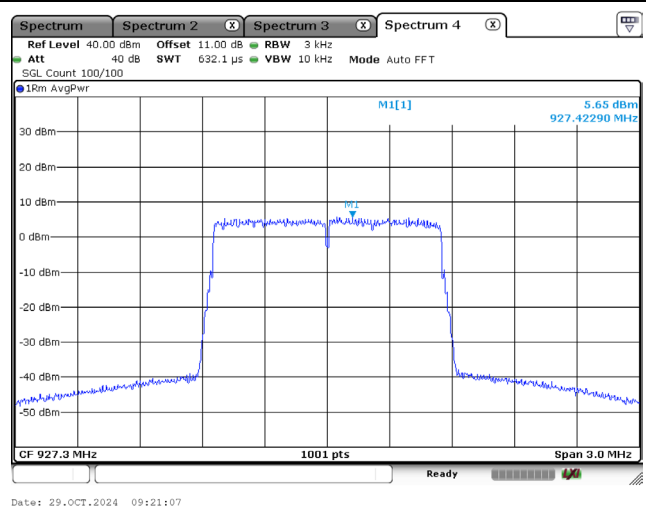
Appendix D. Test Result of Maximum Power Spectral Density

Modulation	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Cat-1_1.4M_QPSK	925.7	5.98	8.00	Pass
	927.3	5.65	8.00	Pass
Cat-1_3M_QPSK	926.5	3.38	8.00	Pass
Cat-M1_1.4M_QPSK	925.7	6.08	8.00	Pass
	927.3	5.85	8.00	Pass
Cat-M1_3M_QPSK	926.5	3.32	8.00	Pass
Cat-1_1.4M_16QAM	925.7	6.69	8.00	Pass
	927.3	6.16	8.00	Pass
Cat-1_3M_16QAM	926.5	2.53	8.00	Pass
Cat-M1_1.4M_16QAM	925.7	5.91	8.00	Pass
	927.3	6.27	8.00	Pass
Cat-M1_3M_16QAM	926.5	2.65	8.00	Pass
Cat-1_1.4M_64QAM	925.7	5.73	8.00	Pass
	927.3	6.16	8.00	Pass
Cat-1_3M_64QAM	926.5	2.39	8.00	Pass

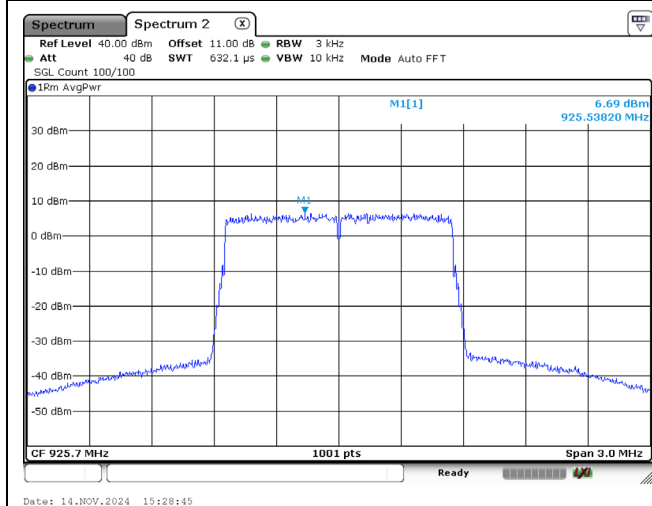
Cat-1_1.4MHz_QPSK_925.7 MHz



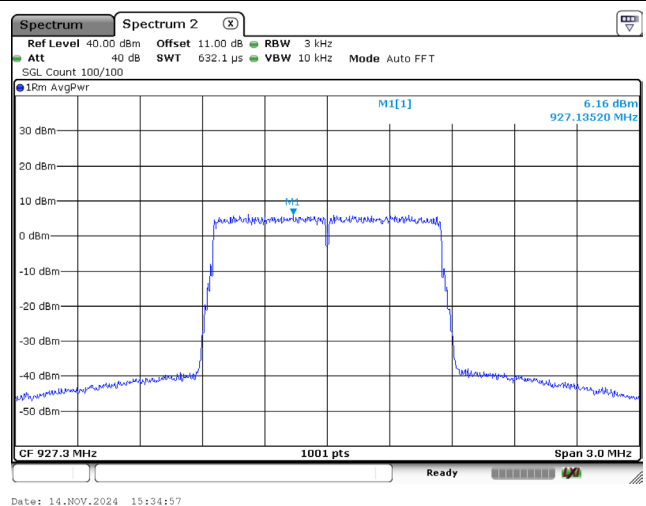
Cat-1_1.4MHz_QPSK_927.3 MHz



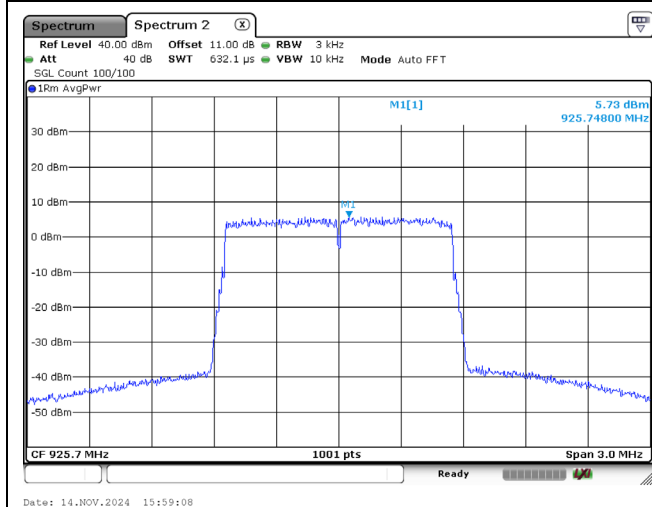
Cat-1_1.4MHz_16QAM_925.7 MHz



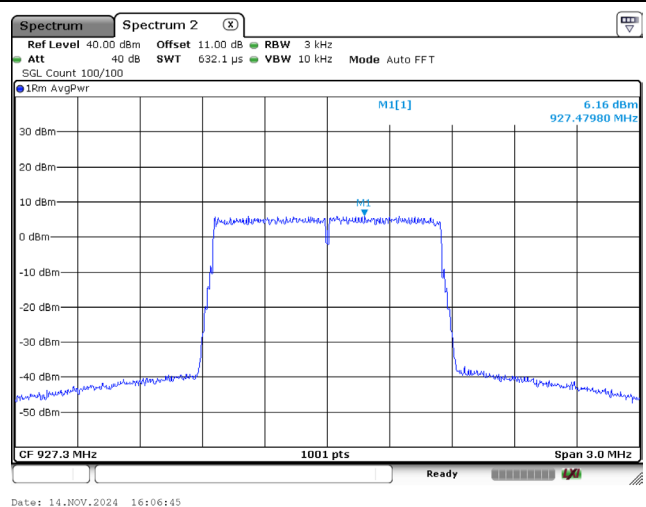
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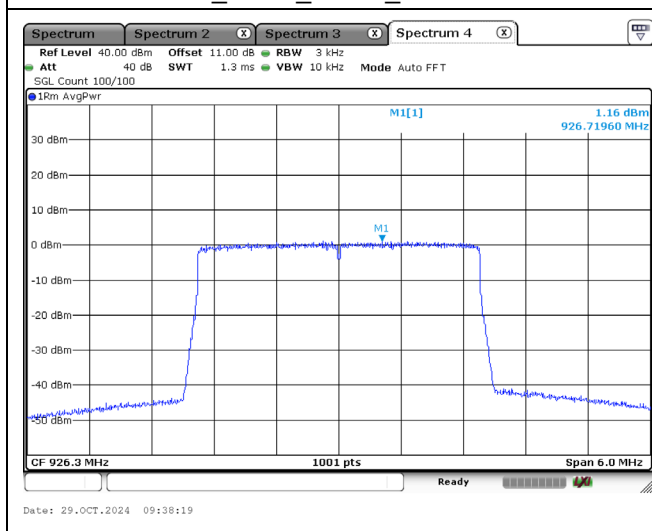
Cat-1_1.4MHz_64QAM_925.7 MHz



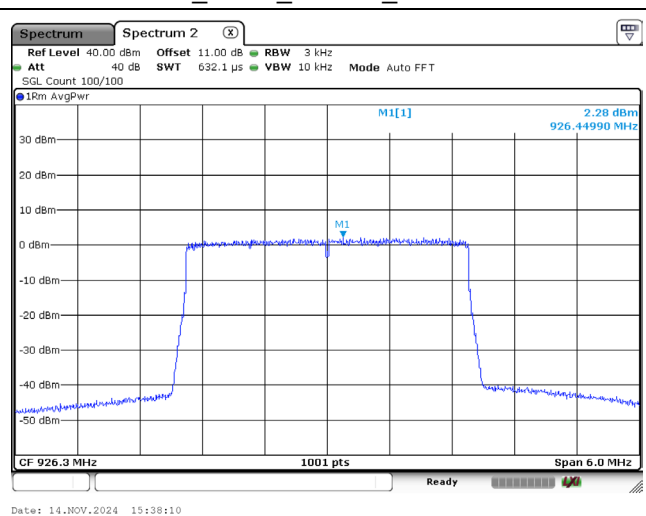
Cat-1_1.4MHz_64QAM_927.3 MHz



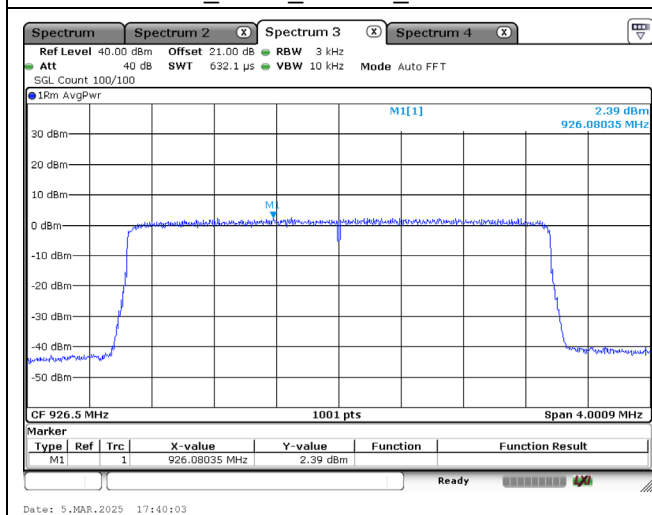
Cat-1_3MHz_QPSK_926.5 MHz



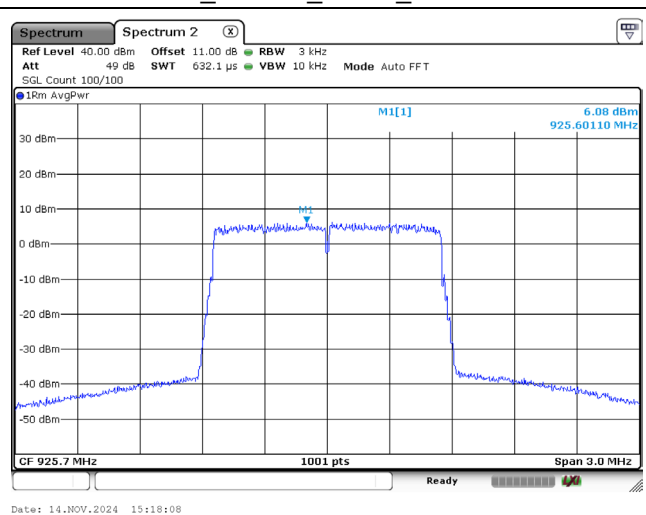
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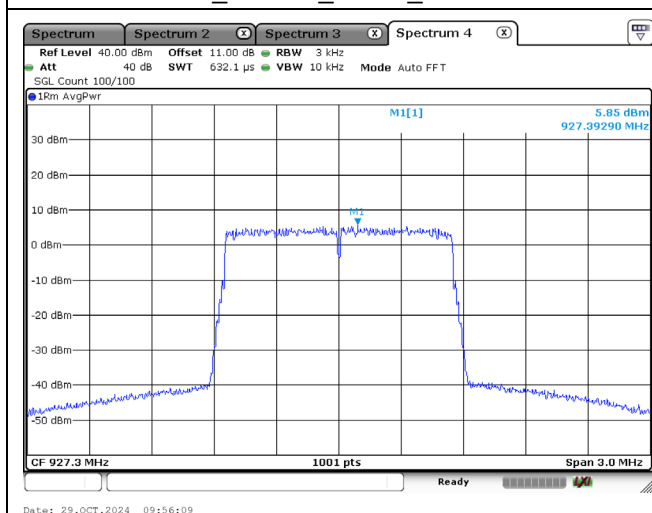
Cat-1_3MHz_64QAM_926.5 MHz



Cat-M1_1.4MHz_QPSK_925.7 MHz



Cat-M1_1.4MHz_QPSK_927.3 MHz



Cat-M1_1.4MHz_16QAM_925.7 MHz

