FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Renesas Electronics Coporation

Sub-GHz wireless communication board

Model No. QCIOT-000-CWXPOCZ

Brand Name: Renesas

FCC ID: 2AEMXJP202CWXPZ

Prepared for : Renesas Electronics Coporation
TOYOSU FORESIA, 3-2-24 Toyosu, Koto-ku, Tokyo 135-0061, Japan

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Kefeng Road, Science & Technology Park, Nanshan District , Shenzhen, Guangdong, China

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Report Number	:	ACS-F23091
Date of Test	:	Apr.23~May.11, 2023
Date of Report	:	May.25, 2023

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TEST REPORT CERTIFICATION

Applicant	:	Renesas Electronics Coporation
Product	:	Sub-GHz wireless communication board
FCC ID	:	2AEMXJP202CWXPZ

(A) Model No. : QCIOT-000-CWXPOCZ
(B) Brand Name : Renesas
(C) Test Voltage : AC 120V/60Hz

Tested for comply with:
FCC CFR 47 Part 15 Subpart C

Test procedure used:
ANSI C63.10:2020

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to single evaluation of one sample of above mentioned product and shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

Date of Test : Apr.23~May.11, 2023 Report of date: May.25, 2023

Prepared by : Mia Zhao
Mia Zhao / Assistant

Reviewed by : Thomas Chen
Thomas Chen / Assistant Manager

AUDIX® 信華科技（深圳）有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章
Stamp only for EMC Dept. Report

Approved & Authorized Signer : Signature: Sunny Lu
Sunny Lu / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	**Standard**	**Results**
Power Line Conducted Emission Test	FCC Part 15C: 15.207 ANSI C63.10:2020	PASS
Radiated Emission Test	FCC Part 15C: 15.209 FCC Part 15C: 15.249 ANSI C63.10:2020	PASS
Band Edge Compliance Test	FCC Part 15: 15.249 ANSI C63.10:2020	PASS
20dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10:2020	PASS
Note: Measurement uncertainty affection to the result is considered, the EUT is technically compliant with standard requirements.		

2. GENERAL INFORMATION

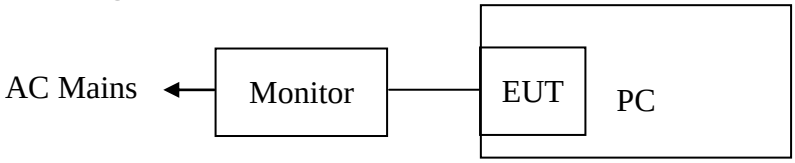
2.1.Description of Device (EUT)

Product	:	Sub-GHz wireless communication board
Model No.	:	QCIOT-000-CWXPOCZ
Brand Name	:	Renesas
FCC ID	:	2AEMXJP202CWXPZ
Operation frequency	:	922MHz-928MHz
Antenna	:	TRF Antenna, 0.75dBi
Modulation	:	GFSK
Applicant	:	Renesas Electronics Coporation TOYOSU FORESIA, 3-2-24 Toyosu, Koto-ku, Tokyo 135-0061, Japan
Manufacturer	:	TESSERA TECHNOLOGY INC. 1276-1 Shimokuzawa, Midori-ku, Sagamihara-city, Kanagawa 252-0134 Japan
Date of Test	:	Apr.23~May.11, 2023
Date of Receipt	:	Apr.12, 2023
Sample Type	:	Prototype production

2.2.Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Personal Computer	N/A	HP	Z4	N/A
		Power Cord(3C): Unshielded, Detachabled, 1.8m			
2.	Monitor	ACS-EMC-LM01R	VLCDS26064-2W	ViewSonic	A210521A0131
		Power Cord(3C): Unshielded, Detachabled, 1.8m Data Cable: Shielded, Undetectable, 2.0m			

2.3.Block diagram of connection between the EUT and simulators



(EUT: Sub-GHz wireless communication board)

2.4.Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Kefeng Road, Science & Technology Park,
Nanshan District , Shenzhen, Guangdong, China

EMC Lab. : Certificated by ISED, Canada
Company Number: 5183A
CAB identifier: CN0034
Valid Date: Mar.31, 2024

: Certificated by FCC, USA
Designation No.: CN5022
Valid Date: Mar.31, 2024

: Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2023

2.5.Measurement Uncertainty (95% confidence levels, k=2)

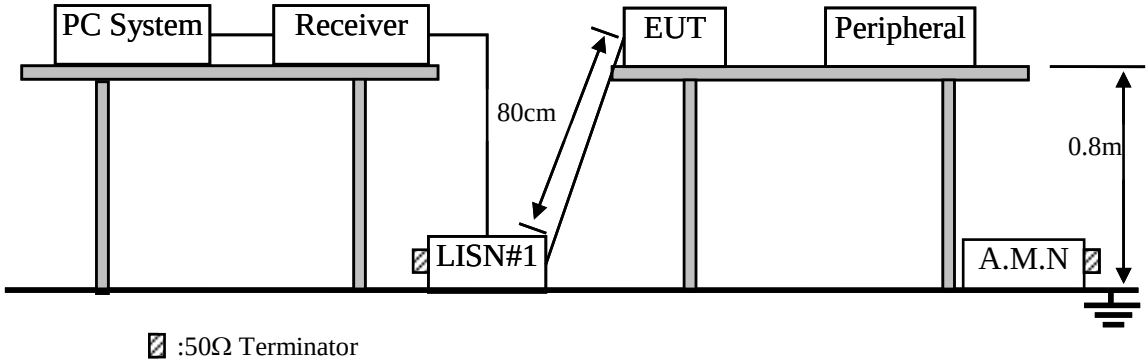
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	±2.6dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	±3.8dB(30~200MHz, Polarization: H)
	±3.8dB(30~200MHz, Polarization: V)
	±4.0dB(200M~1GHz, Polarization: H)
	±4.0dB(200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber(1GHz-25GHz)	±4.0dB(1~6GHz, Distance: 3m)
	±4.0dB(6~25GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	±3.7dB(30MHz~1000MHz)
	±3.3dB(1~26.5GHz)
Uncertainty for Power density test	±2.0dB
Uncertainty for Output power test	±0.8dB
Uncertainty for Bandwidth test	±4.6%
Uncertainty for DC power test	±1%
Uncertainty for test site temperature and humidity	±0.6℃
	±3%

3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Nov.09,22	5 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.01,23	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ENV216	102160	Oct.08,22	1 Year
4.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1628-5	Apr.01,23	1 Year
5.	RF Cable	Eastsheep	RG223	190424	Oct.08,22	1Year
6.	Terminator	Hubersuhner	50Ω	No.1	Apr.02,23	1 Year
7.	Test Software	AUDIX	e3	6.100913a	N/A	N/A
Note: N/A means Not applicable.						

3.2.Block Diagram of Test Setup



3.3.Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limits shall apply at the transition frequencies.
3. Emission Level (dBμV) = Factor (L.I.S.N.) (dB) + Cable Loss (dB)+Reading (Receiver) (dBμV)

3.4.Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Sub-GHz wireless communication board (EUT)

Model No. : QCIOT-000-CWXPOCZ
Serial No. : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT as shown as Section 3.2.

3.5.2. Turn on the power of EUT.

3.5.3. PC run test software to control EUT work in Tx mode.

3.6. Test Procedure

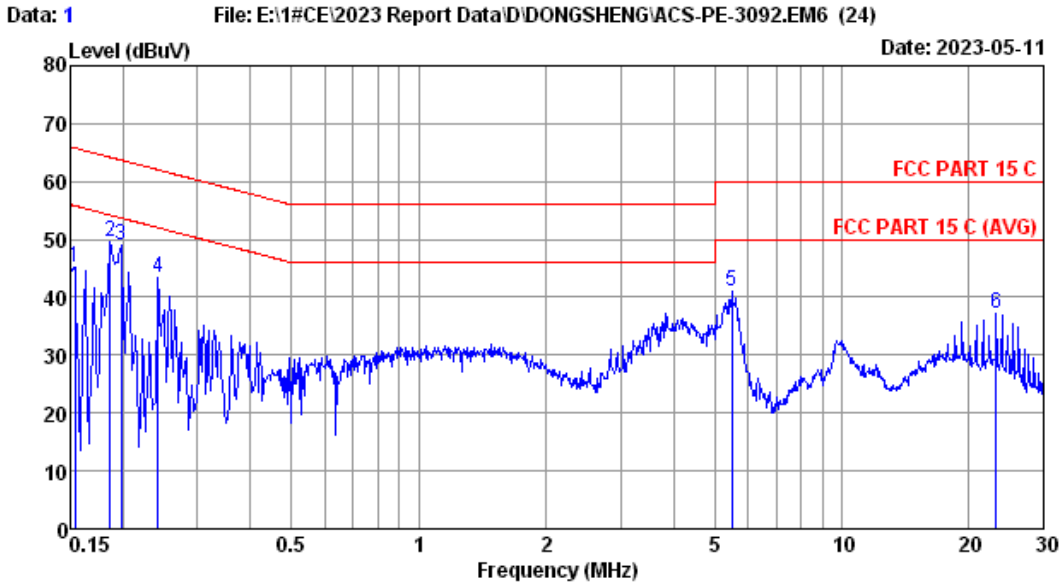
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via AC unit connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Test Results

PASS. **(**All emissions not reported below are too low against the prescribed limits.)

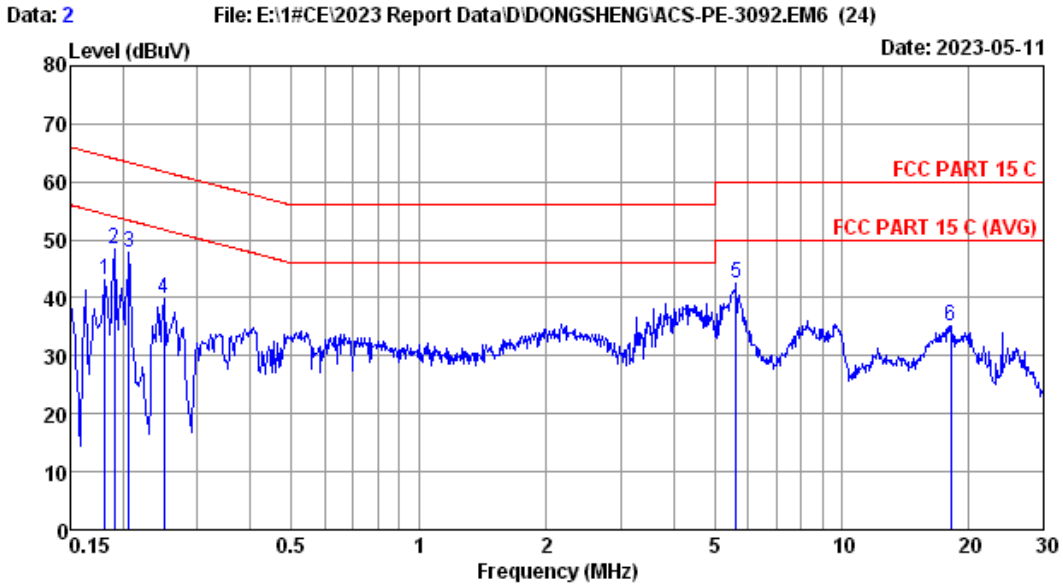


Site no :1# CE
Dis./Lisn :2022 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Power Rating :AC 120V/60Hz
Test Mode :FSK 1b 902.2

Data No :1
Engineer :Evan

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.154	9.60	0.01	35.66	45.27	65.78	20.51	QP
2	0.186	9.60	0.01	40.02	49.63	64.20	14.57	QP
3	0.198	9.60	0.01	39.47	49.08	63.71	14.63	QP
4	0.242	9.60	0.01	33.67	43.28	62.04	18.76	QP
5	5.505	9.40	0.04	31.54	40.98	60.00	19.02	QP
6	23.140	9.40	0.11	27.69	37.20	60.00	22.80	QP

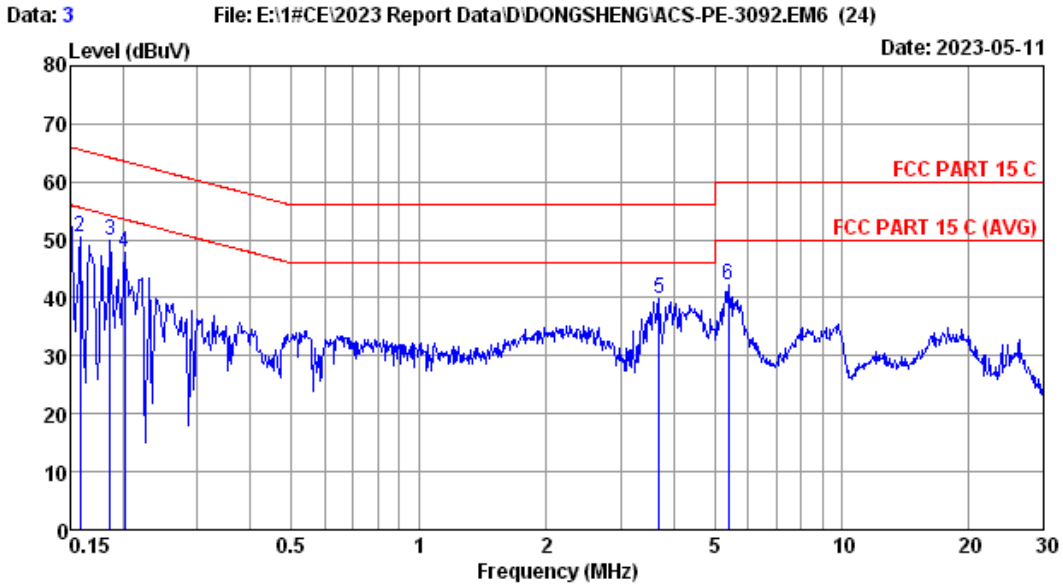
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :2
Dis./Lisn :2022 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :FSK 1b 902.2

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.182	9.60	0.01	33.44	43.05	64.42	21.37	QP
2	0.190	9.60	0.01	38.91	48.52	64.02	15.50	QP
3	0.206	9.60	0.01	38.23	47.84	63.36	15.52	QP
4	0.249	9.60	0.01	30.35	39.96	61.78	21.82	QP
5	5.623	9.20	0.04	33.26	42.50	60.00	17.50	QP
6	18.135	9.20	0.09	25.92	35.21	60.00	24.79	QP

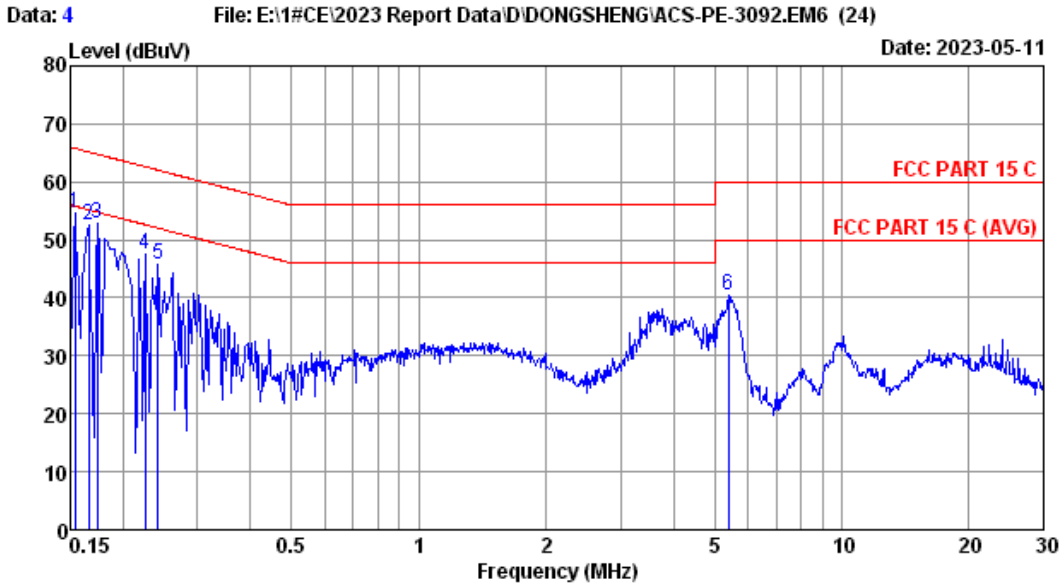
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :3
Dis./Lisn :2022 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :FSK 1b 927.8

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.60	0.01	45.12	54.73	66.00	11.27	QP
2	0.158	9.60	0.01	40.90	50.51	65.56	15.05	QP
3	0.186	9.60	0.01	40.17	49.78	64.20	14.42	QP
4	0.202	9.60	0.01	38.16	47.77	63.54	15.77	QP
5	3.700	9.21	0.03	30.74	39.98	56.00	16.02	QP
6	5.390	9.20	0.04	32.89	42.13	60.00	17.87	QP

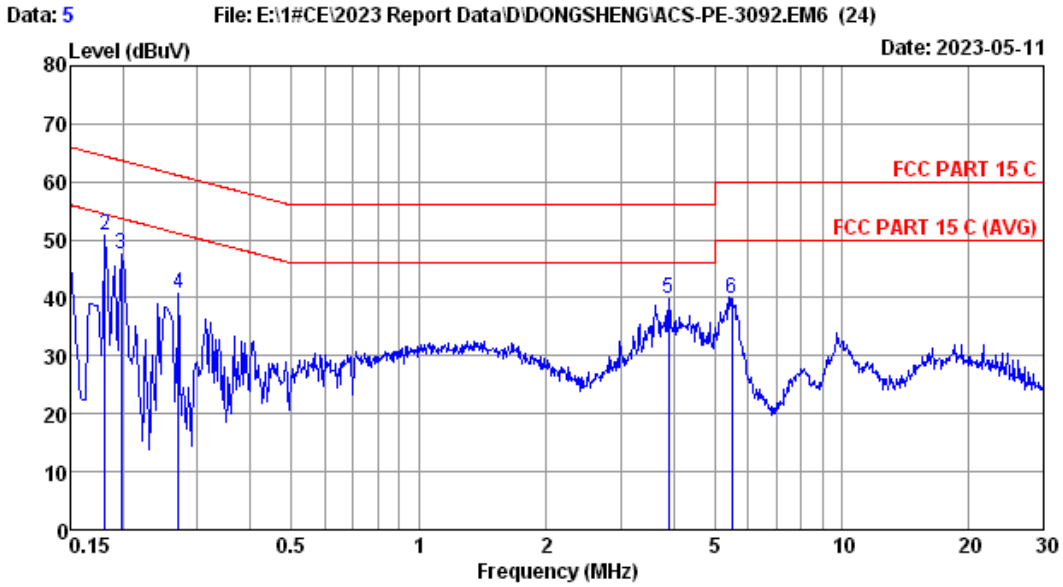
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :4
Dis./Lisn :2022 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :FSK 1b 927.8

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.154	9.60	0.01	45.02	54.63	65.78	11.15	QP
2	0.166	9.60	0.01	42.86	52.47	65.16	12.69	QP
3	0.174	9.60	0.01	43.37	52.98	64.77	11.79	QP
4	0.226	9.60	0.01	37.92	47.53	62.61	15.08	QP
5	0.242	9.60	0.01	36.12	45.73	62.04	16.31	QP
6	5.390	9.40	0.04	31.10	40.54	60.00	19.46	QP

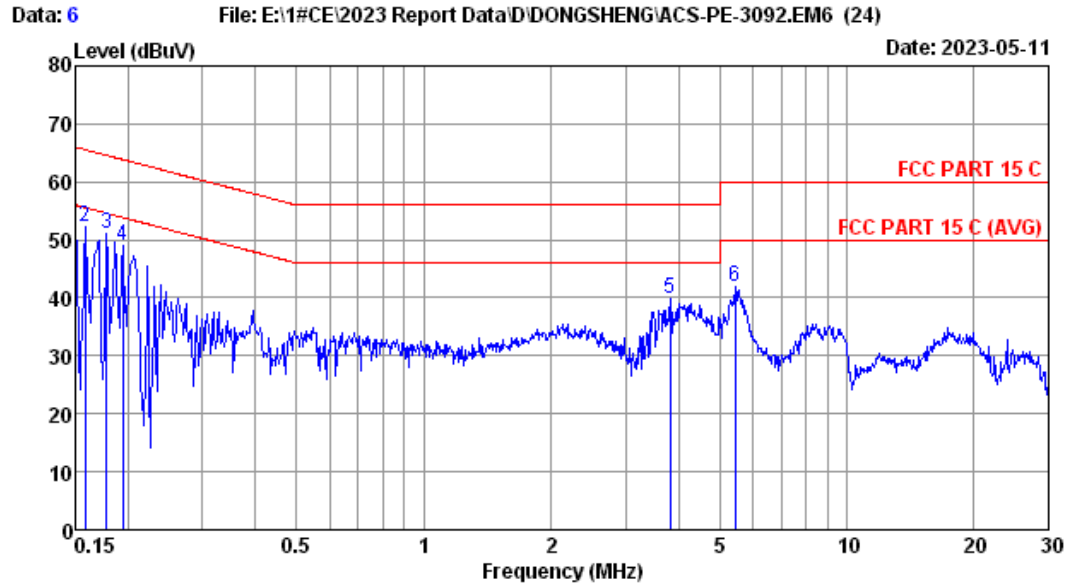
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :5
Dis./Lisn :2022 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :FSK 3 902.4

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.60	0.01	35.77	45.38	66.00	20.62	QP
2	0.182	9.60	0.01	41.13	50.74	64.42	13.68	QP
3	0.198	9.60	0.01	38.00	47.61	63.71	16.10	QP
4	0.270	9.60	0.01	31.10	40.71	61.12	20.41	QP
5	3.901	9.40	0.03	30.48	39.91	56.00	16.09	QP
6	5.505	9.40	0.04	30.49	39.93	60.00	20.07	QP

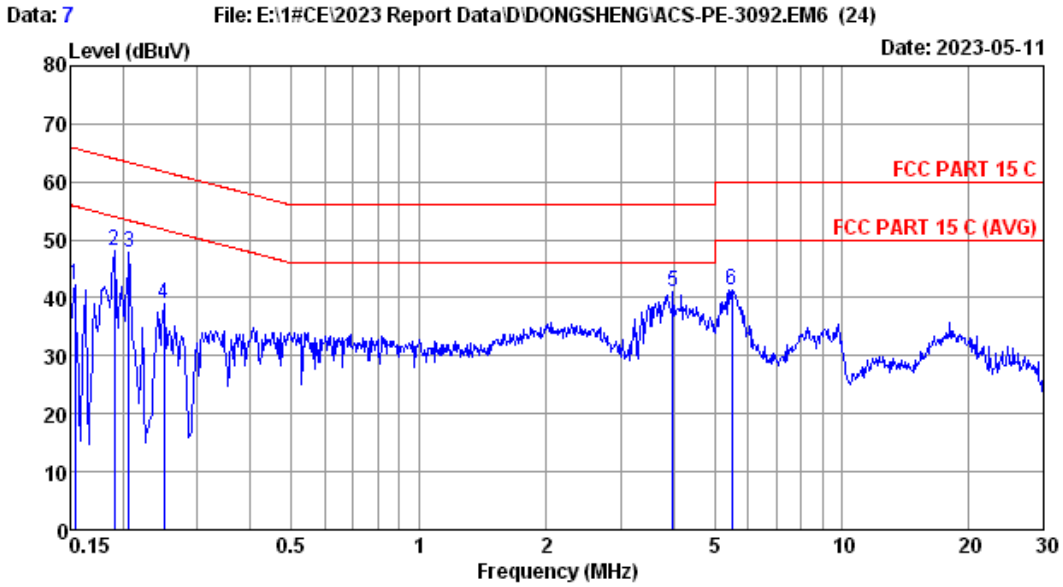
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :6
Dis./Lisn :2022 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :FSK 3 902.4

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.60	0.01	43.37	52.98	66.00	13.02	QP
2	0.158	9.60	0.01	42.61	52.22	65.56	13.34	QP
3	0.178	9.60	0.01	41.44	51.05	64.59	13.54	QP
4	0.194	9.60	0.01	39.26	48.87	63.84	14.97	QP
5	3.820	9.21	0.03	30.73	39.97	56.00	16.03	QP
6	5.447	9.20	0.04	32.63	41.87	60.00	18.13	QP

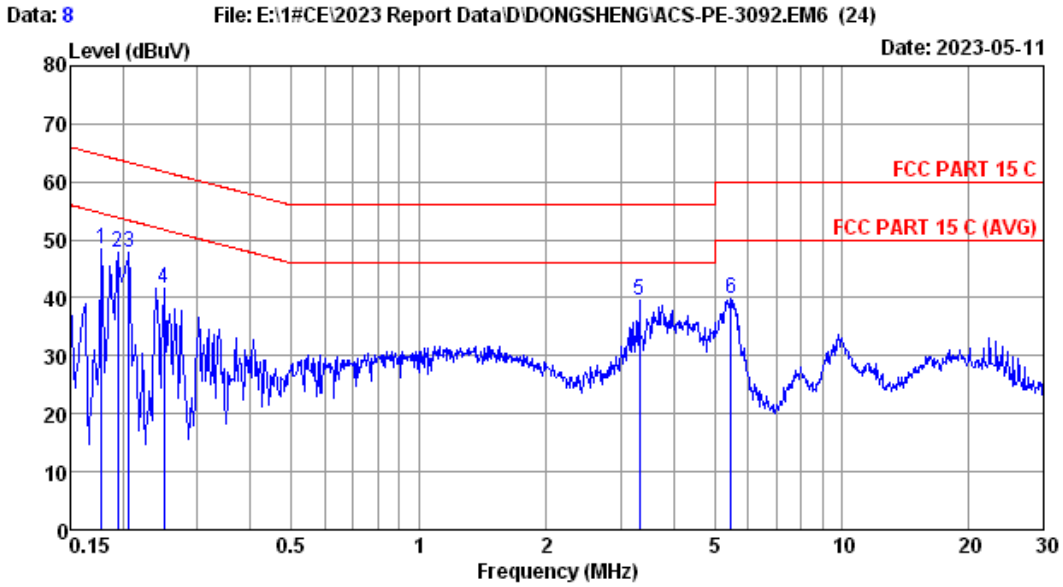
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Site no :1# CE
Data No :7
Dis./Lisn :2022 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :FSK 3 927.6

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.154	9.60	0.01	32.60	42.21	65.78	23.57	QP
2	0.190	9.60	0.01	38.61	48.22	64.02	15.80	QP
3	0.206	9.60	0.01	38.23	47.84	63.36	15.52	QP
4	0.249	9.60	0.01	29.38	38.99	61.78	22.79	QP
5	3.985	9.20	0.03	31.78	41.01	56.00	14.99	QP
6	5.505	9.20	0.04	32.20	41.44	60.00	18.56	QP

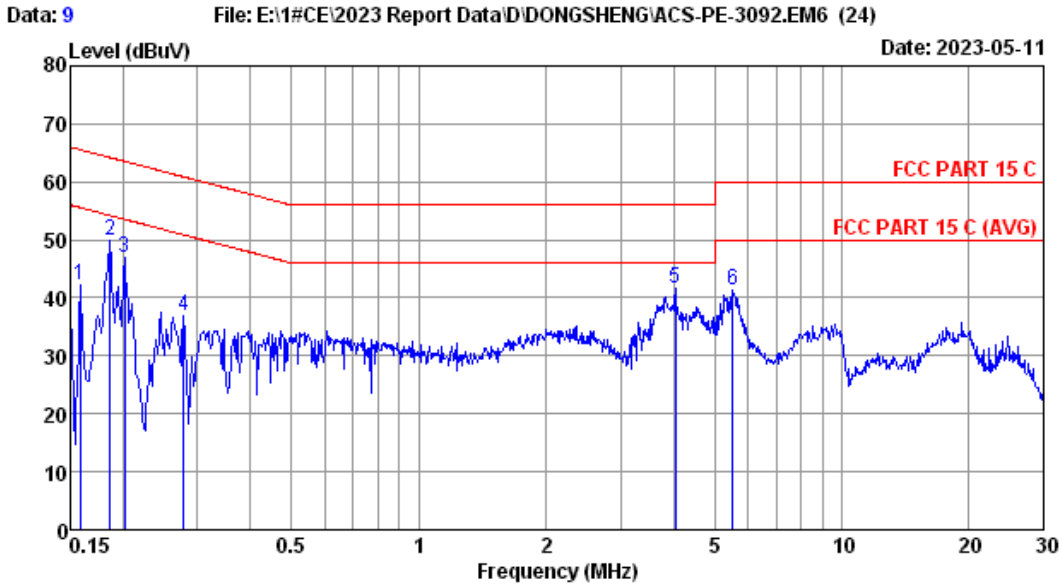
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :8
Dis./Lisn :2022 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :FSK 3 927.6

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.178	9.60	0.01	38.85	48.46	64.59	16.13	QP
2	0.194	9.60	0.01	38.25	47.86	63.84	15.98	QP
3	0.206	9.60	0.01	38.31	47.92	63.36	15.44	QP
4	0.249	9.60	0.01	32.05	41.66	61.78	20.12	QP
5	3.328	9.40	0.03	30.23	39.66	56.00	16.34	QP
6	5.476	9.40	0.04	30.32	39.76	60.00	20.24	QP

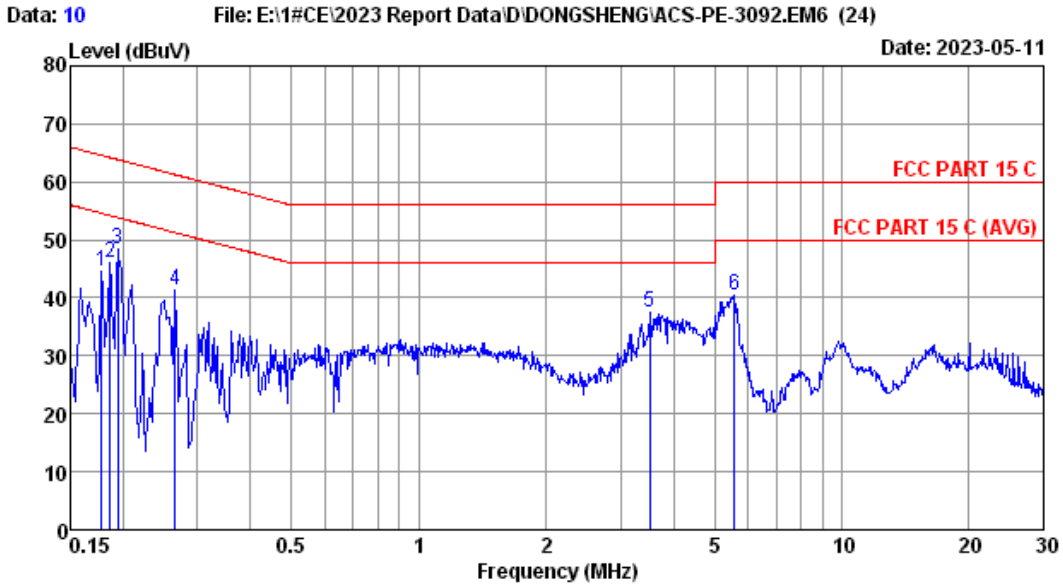
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Site no :1# CE
Data No :9
Dis./Lisn :2022 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT1 903.2

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.158	9.60	0.01	32.47	42.08	65.56	23.48	QP
2	0.186	9.60	0.01	40.23	49.84	64.20	14.36	QP
3	0.202	9.60	0.01	37.26	46.87	63.54	16.67	QP
4	0.277	9.60	0.01	27.20	36.81	60.90	24.09	QP
5	4.049	9.20	0.03	32.48	41.71	56.00	14.29	QP
6	5.535	9.20	0.04	32.18	41.42	60.00	18.58	QP

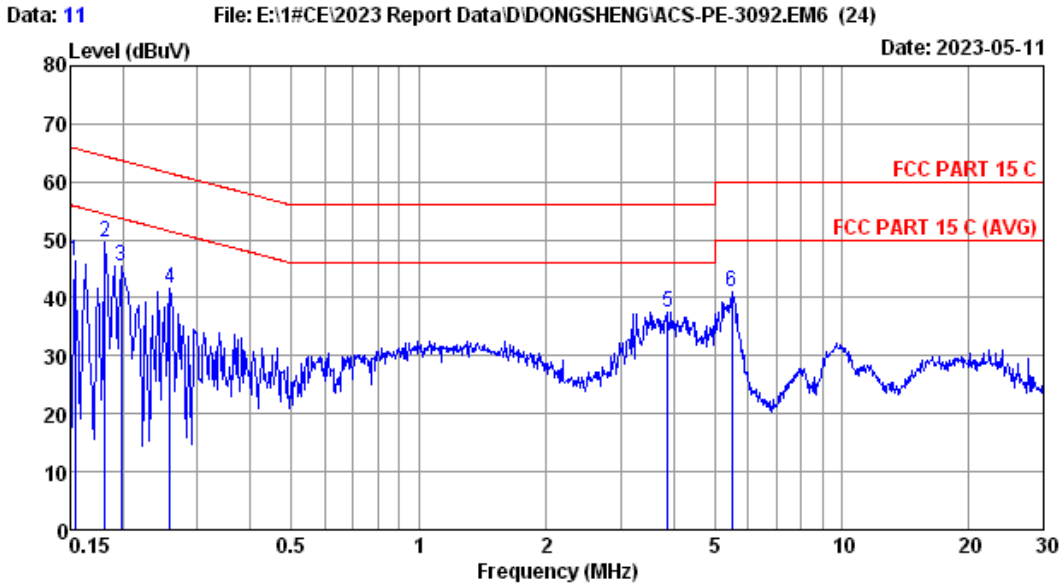
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :10
Dis./Lisn :2022 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT1 903.2

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.178	9.60	0.01	35.11	44.72	64.59	19.87	QP
2	0.186	9.60	0.01	36.31	45.92	64.20	18.28	QP
3	0.194	9.60	0.01	38.70	48.31	63.84	15.53	QP
4	0.266	9.60	0.01	31.58	41.19	61.25	20.06	QP
5	3.509	9.40	0.03	28.04	37.47	56.00	18.53	QP
6	5.564	9.40	0.04	30.86	40.30	60.00	19.70	QP

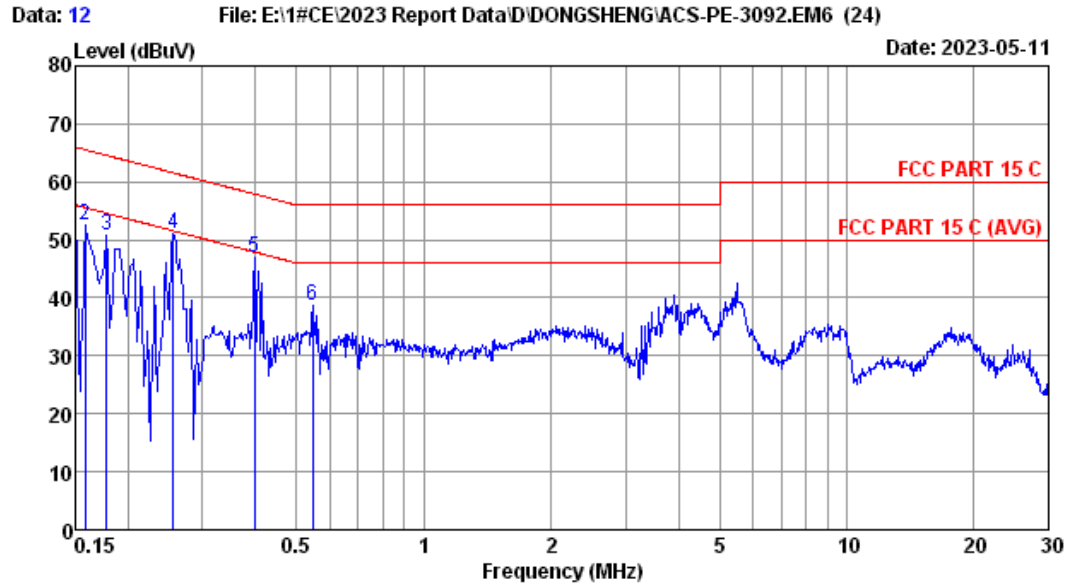
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Site no :1# CE
Data No :11
Dis./Lisn :2022 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT1 927.2

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.154	9.60	0.01	36.64	46.25	65.78	19.53	QP
2	0.182	9.60	0.01	40.13	49.74	64.42	14.68	QP
3	0.198	9.60	0.01	35.80	45.41	63.71	18.30	QP
4	0.258	9.60	0.01	31.92	41.53	61.51	19.98	QP
5	3.881	9.40	0.03	28.02	37.45	56.00	18.55	QP
6	5.505	9.40	0.04	31.56	41.00	60.00	19.00	QP

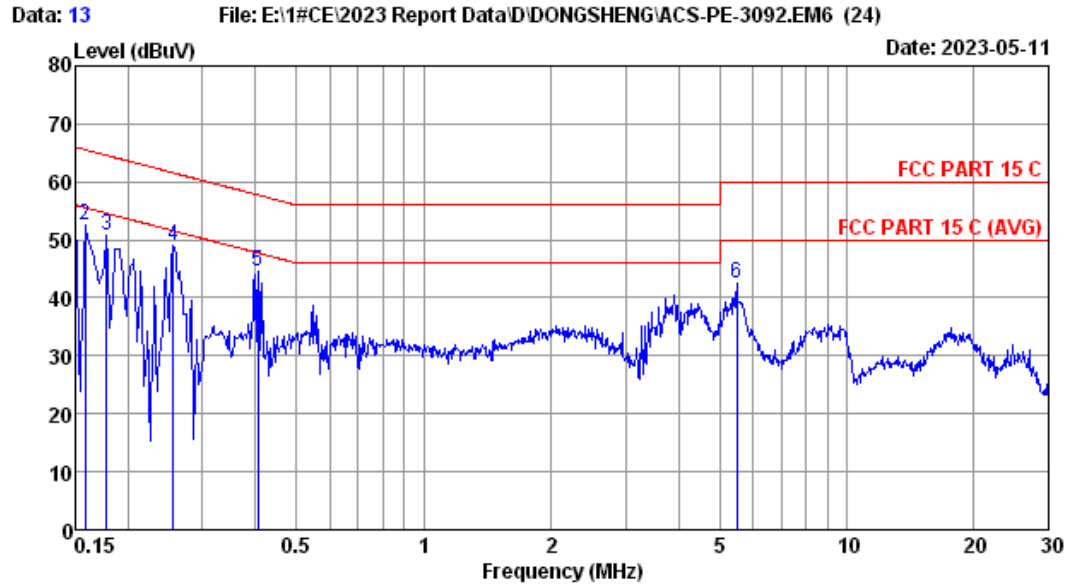
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :12
Dis./Lisn :2022 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
EUT :
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT1 927.2

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.60	0.01	43.29	52.90	66.00	13.10	QP
2	0.158	9.60	0.01	42.80	52.41	65.56	13.15	QP
3	0.178	9.60	0.01	41.10	50.71	64.59	13.88	QP
4	0.256	9.60	0.01	41.32	50.93	61.56	10.63	QP
5	0.398	9.60	0.01	37.33	46.94	57.90	10.96	QP
6	0.546	9.57	0.01	29.18	38.76	56.00	17.24	QP

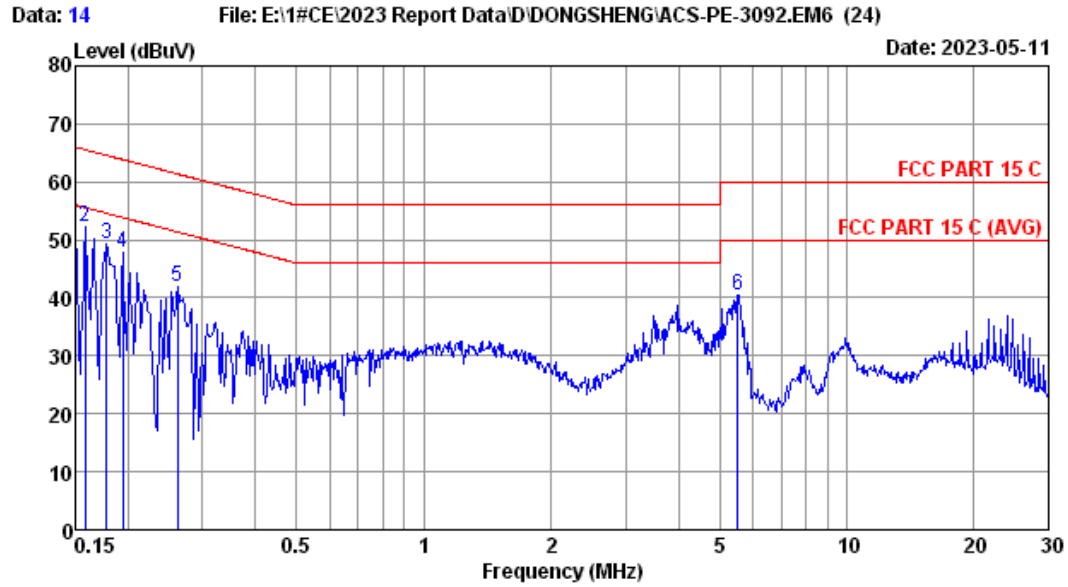
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Site no :1# CE
Data No :13
Dis./Lisn :2022 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT2 902.8

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.60	0.01	43.29	52.90	66.00	13.10	QP
2	0.158	9.60	0.01	42.80	52.41	65.56	13.15	QP
3	0.178	9.60	0.01	41.10	50.71	64.59	13.88	QP
4	0.256	9.60	0.01	39.32	48.93	61.56	12.63	QP
5	0.406	9.60	0.01	34.88	44.49	57.73	13.24	QP
6	5.505	9.20	0.04	33.26	42.50	60.00	17.50	QP

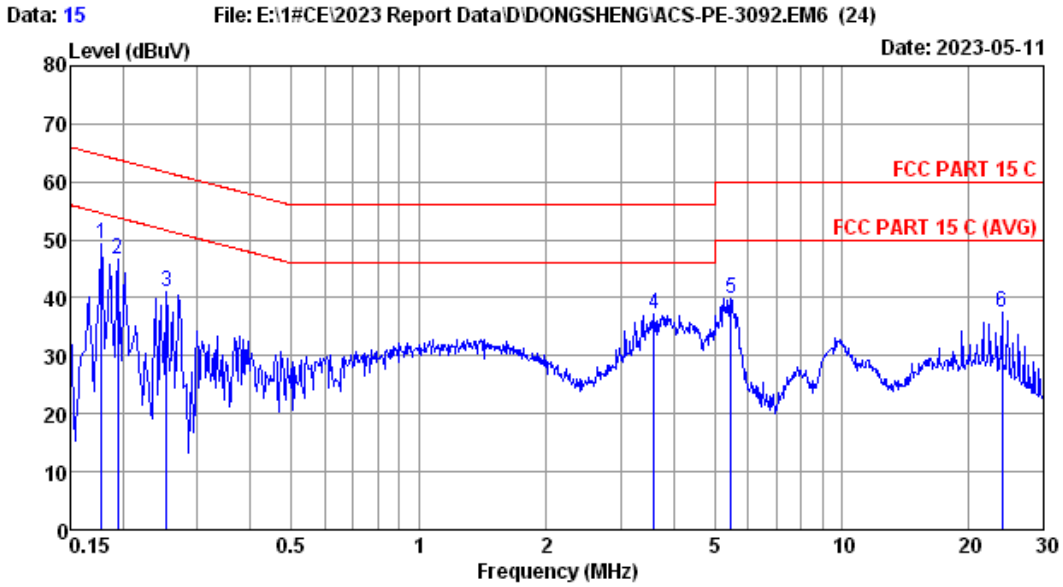
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Site no :1# CE
Data No :14
Dis./Lisn :2022 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT2 902.8

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.60	0.01	41.35	50.96	66.00	15.04	QP
2	0.158	9.60	0.01	42.53	52.14	65.56	13.42	QP
3	0.178	9.60	0.01	39.80	49.41	64.59	15.18	QP
4	0.194	9.60	0.01	38.36	47.97	63.84	15.87	QP
5	0.262	9.60	0.01	32.25	41.86	61.38	19.52	QP
6	5.535	9.40	0.04	31.13	40.57	60.00	19.43	QP

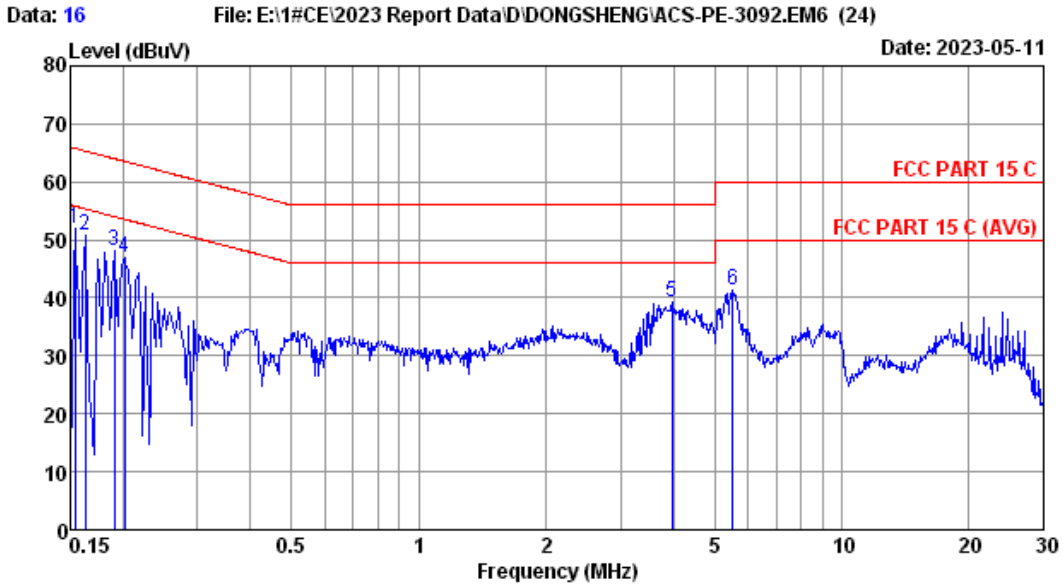
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :15
Dis./Lisn :2022 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT2 927.6

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.178	9.60	0.01	39.57	49.18	64.59	15.41	QP
2	0.194	9.60	0.01	37.03	46.64	63.84	17.20	QP
3	0.253	9.60	0.01	31.53	41.14	61.64	20.50	QP
4	3.603	9.40	0.03	27.63	37.06	56.00	18.94	QP
5	5.476	9.40	0.04	30.48	39.92	60.00	20.08	QP
6	23.888	9.40	0.11	27.94	37.45	60.00	22.55	QP

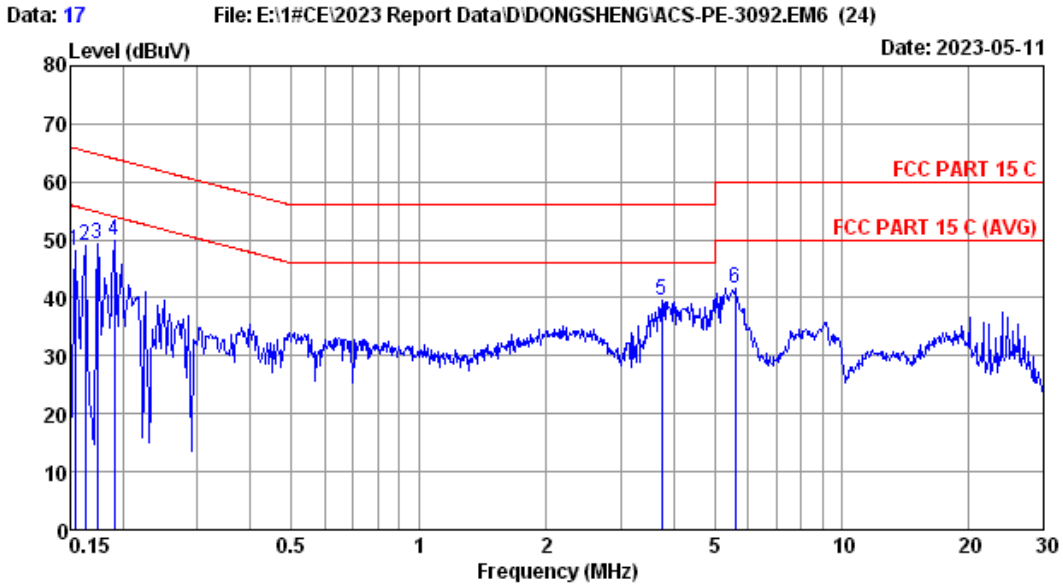
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Site no :1# CE
Data No :16
Dis./Lisn :2022 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT2 927.6

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.154	9.60	0.01	42.47	52.08	65.78	13.70	QP
2	0.162	9.60	0.01	41.17	50.78	65.34	14.56	QP
3	0.190	9.60	0.01	38.40	48.01	64.02	16.01	QP
4	0.202	9.60	0.01	37.39	47.00	63.54	16.54	QP
5	3.964	9.20	0.03	30.01	39.24	56.00	16.76	QP
6	5.535	9.20	0.04	32.03	41.27	60.00	18.73	QP

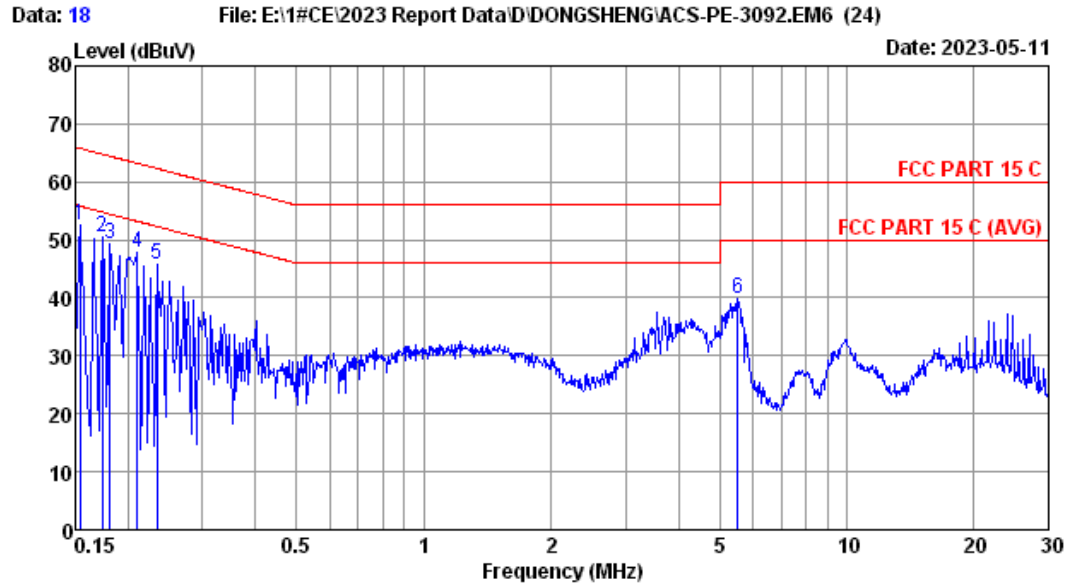
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :17
Dis./Lisn :2022 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT3 902.4

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.154	9.60	0.01	38.47	48.08	65.78	17.70	QP
2	0.162	9.60	0.01	39.28	48.89	65.34	16.45	QP
3	0.174	9.60	0.01	39.56	49.17	64.77	15.60	QP
4	0.190	9.60	0.01	40.42	50.03	64.02	13.99	QP
5	3.759	9.21	0.03	30.46	39.70	56.00	16.30	QP
6	5.594	9.20	0.04	32.31	41.55	60.00	18.45	QP

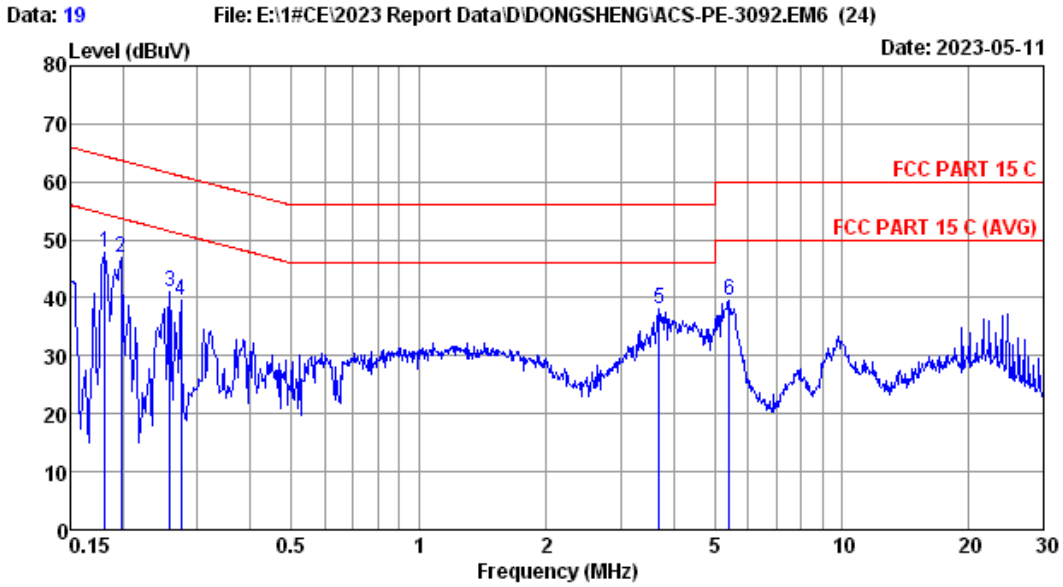
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :18
Dis./Lisn :2022 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT3 902.4

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.154	9.60	0.01	43.06	52.67	65.78	13.11	QP
2	0.174	9.60	0.01	41.01	50.62	64.77	14.15	QP
3	0.182	9.60	0.01	39.65	49.26	64.42	15.16	QP
4	0.211	9.60	0.01	38.21	47.82	63.18	15.36	QP
5	0.234	9.60	0.01	36.10	45.71	62.30	16.59	QP
6	5.535	9.40	0.04	30.34	39.78	60.00	20.22	QP

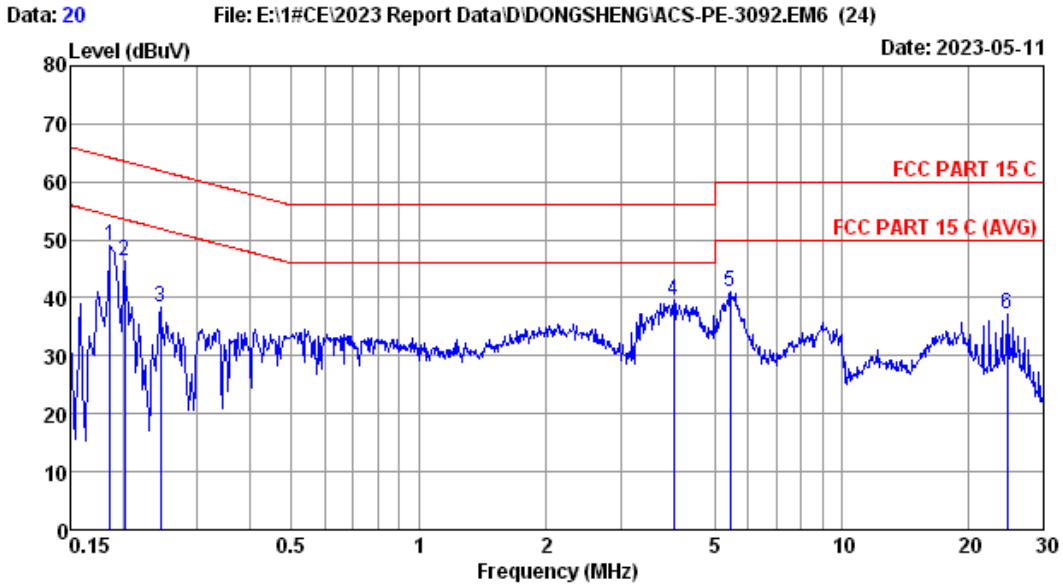
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :19
Dis./Lisn :2022 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT3 927.6

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.182	9.60	0.01	38.12	47.73	64.42	16.69	QP
2	0.198	9.60	0.01	37.39	47.00	63.71	16.71	QP
3	0.258	9.60	0.01	31.39	41.00	61.51	20.51	QP
4	0.274	9.60	0.01	30.02	39.63	60.98	21.35	QP
5	3.700	9.40	0.03	28.56	37.99	56.00	18.01	QP
6	5.419	9.40	0.04	30.17	39.61	60.00	20.39	QP

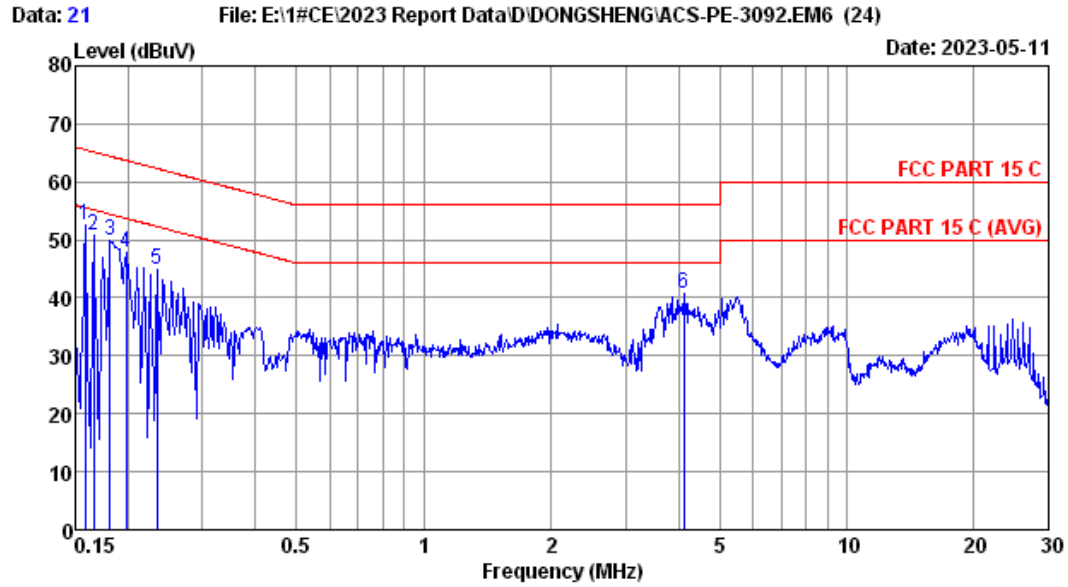
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :20
Dis./Lisn :2022 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT3 927.6

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.186	9.60	0.01	39.30	48.91	64.20	15.29	QP
2	0.202	9.60	0.01	36.60	46.21	63.54	17.33	QP
3	0.246	9.60	0.01	28.90	38.51	61.91	23.40	QP
4	4.006	9.20	0.03	30.23	39.46	56.00	16.54	QP
5	5.447	9.20	0.04	31.81	41.05	60.00	18.95	QP
6	24.659	9.20	0.11	27.80	37.11	60.00	22.89	QP

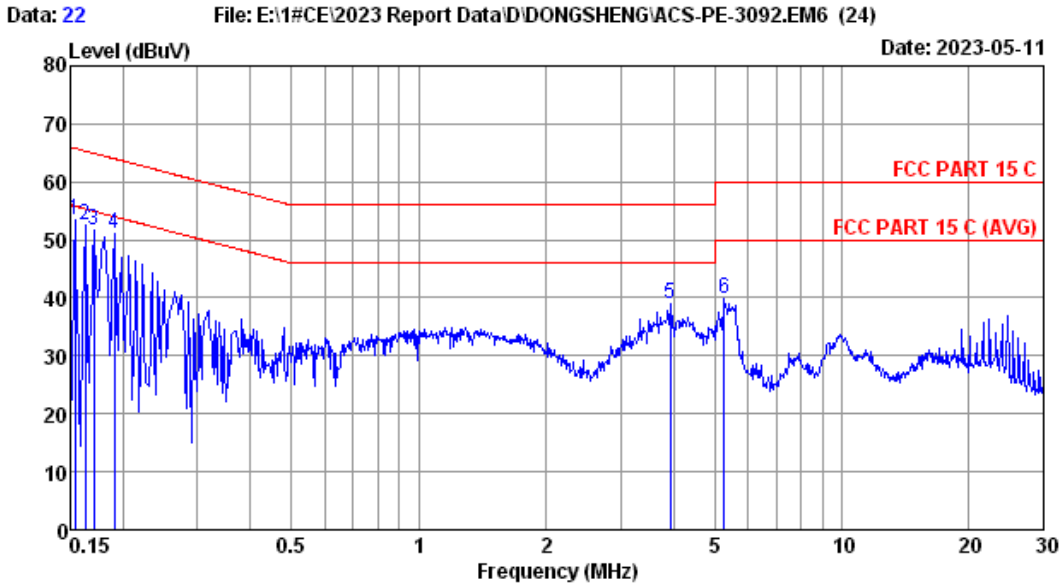
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Site no :1# CE
Data No :21
Dis./Lisn :2022 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT4 902.2

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.158	9.60	0.01	42.95	52.56	65.56	13.00	QP
2	0.166	9.60	0.01	41.06	50.67	65.16	14.49	QP
3	0.182	9.60	0.01	40.33	49.94	64.42	14.48	QP
4	0.198	9.60	0.01	38.30	47.91	63.71	15.80	QP
5	0.234	9.60	0.01	35.41	45.02	62.30	17.28	QP
6	4.114	9.20	0.03	31.37	40.60	56.00	15.40	QP

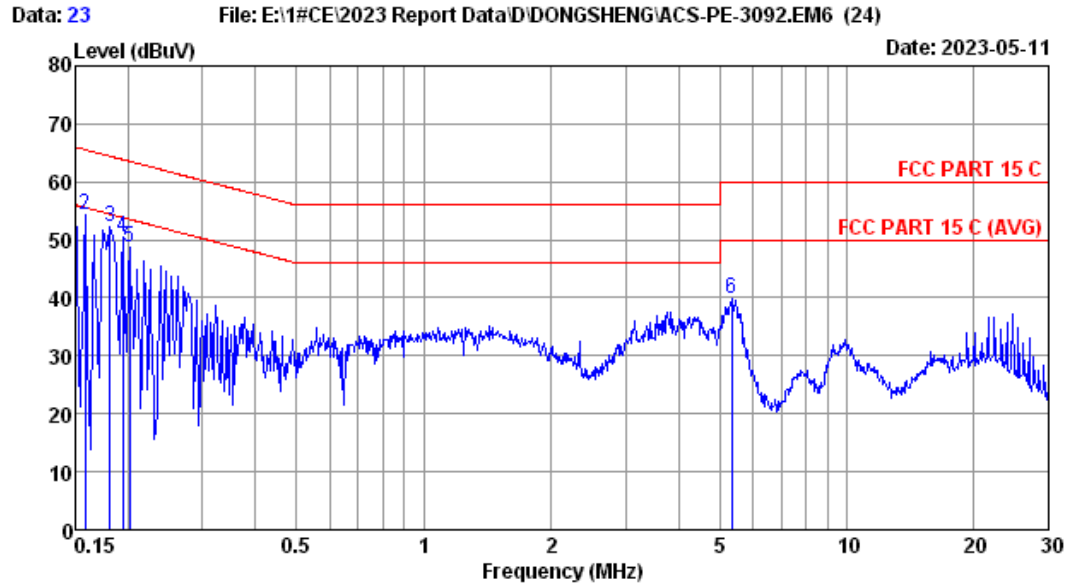
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Site no :1# CE
Data No :22
Dis./Lisn :2022 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT4 902.2

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.154	9.60	0.01	43.68	53.29	65.78	12.49	QP
2	0.162	9.60	0.01	42.79	52.40	65.34	12.94	QP
3	0.170	9.60	0.01	42.10	51.71	64.94	13.23	QP
4	0.190	9.60	0.01	41.38	50.99	64.02	13.03	QP
5	3.922	9.40	0.03	29.61	39.04	56.00	16.96	QP
6	5.277	9.40	0.04	30.31	39.75	60.00	20.25	QP

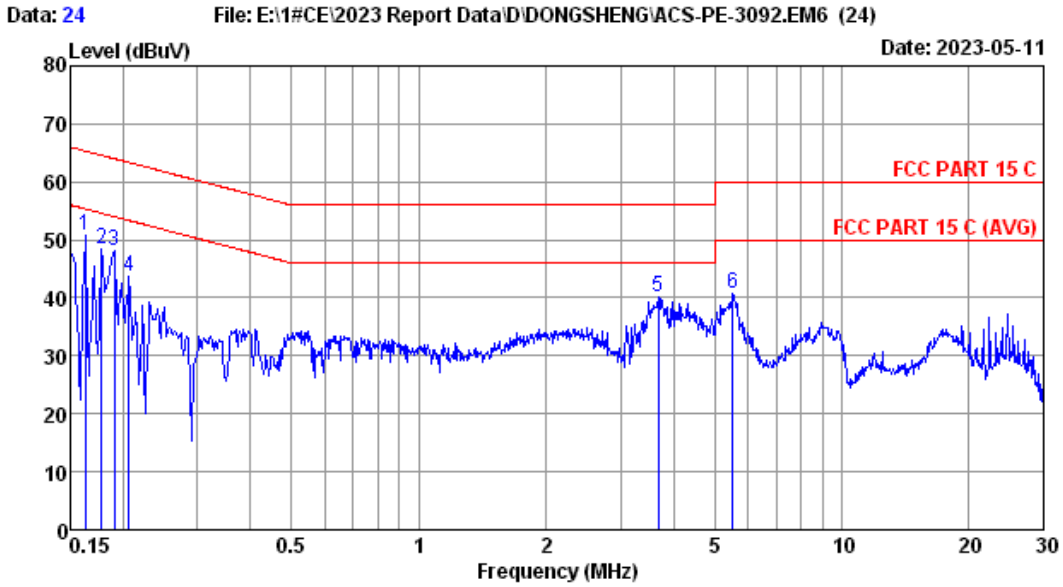
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :23
Dis./Lisn :2022 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT4 927.8

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.60	0.01	46.38	55.99	66.00	10.01	QP
2	0.158	9.60	0.01	44.63	54.24	65.56	11.32	QP
3	0.182	9.60	0.01	42.62	52.23	64.42	12.19	QP
4	0.194	9.60	0.01	40.73	50.34	63.84	13.50	QP
5	0.202	9.60	0.01	39.07	48.68	63.54	14.86	QP
6	5.333	9.40	0.04	30.30	39.74	60.00	20.26	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Data No :24
Dis./Lisn :2022 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :23.8*C/57%
Engineer :Evan
Power Rating :AC 120V/60Hz
Test Mode :OFDM OPT4 927.8

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.162	9.60	0.01	41.15	50.76	65.34	14.58	QP
2	0.178	9.60	0.01	38.87	48.48	64.59	16.11	QP
3	0.190	9.60	0.01	38.61	48.22	64.02	15.80	QP
4	0.206	9.60	0.01	33.99	43.60	63.36	19.76	QP
5	3.681	9.22	0.03	31.03	40.28	56.00	15.72	QP
6	5.535	9.20	0.04	31.36	40.60	60.00	19.40	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1.Test Equipment

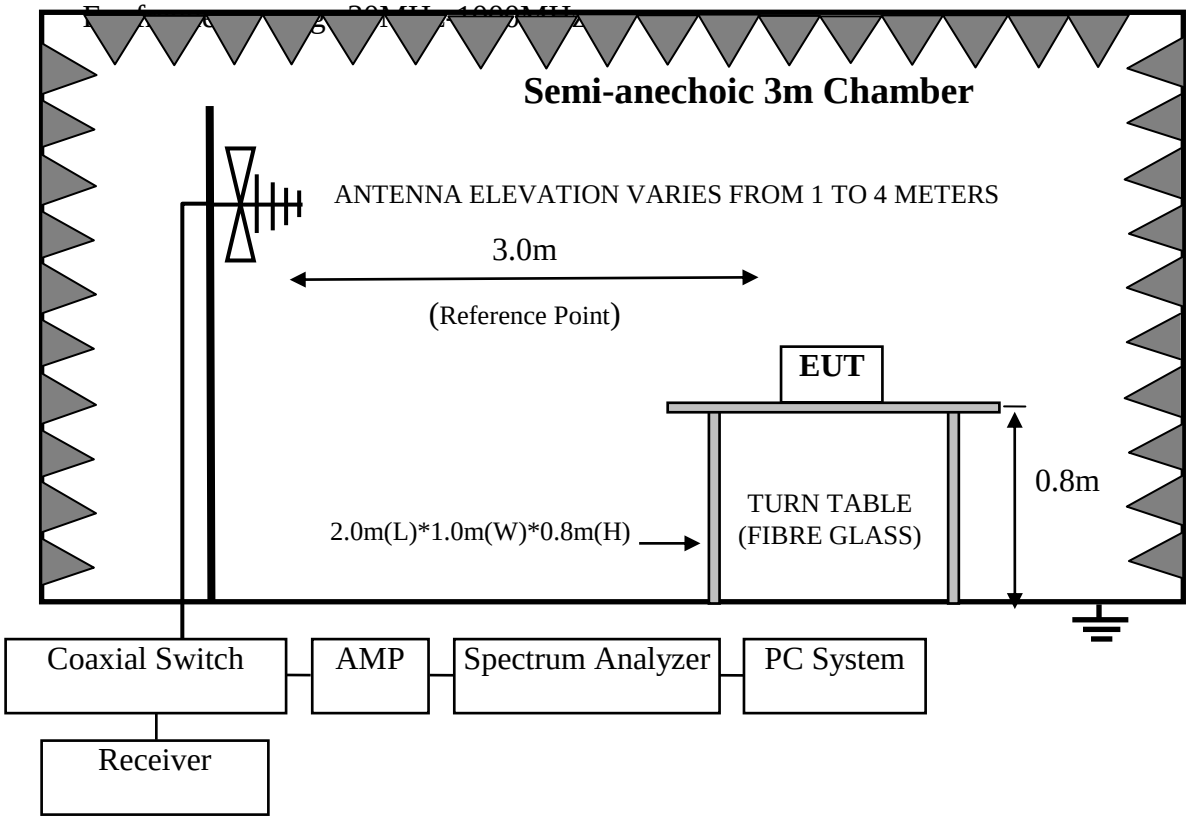
Frequency range: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3m Chamber(NSA)	AUDIX	N/A	N/A	Aug.11,22	5 Year
2.	3m Chamber(SE)	AUDIX	N/A	N/A	Sep.16,22	5 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	103670	Apr.01,23	1 Year
4.	Tri-log-Broadband Antenna	SCHWARZBECK	VULB 9168	01317	Oct.28,22	1 Year
5.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3	Oct.09,22	1 Year
6.	Coaxial Switch	Anritsu	MP59B	6201397223	Apr.02,23	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESR7	101547	Apr.01,23	1 Year
8.	Amplifier	HP	8447D	2944A11159	Apr.02,23	1 Year
9.	Test Software	AUDIX	e3	6.100913a	N/A	N/A
Note: N/A means Not applicable.						

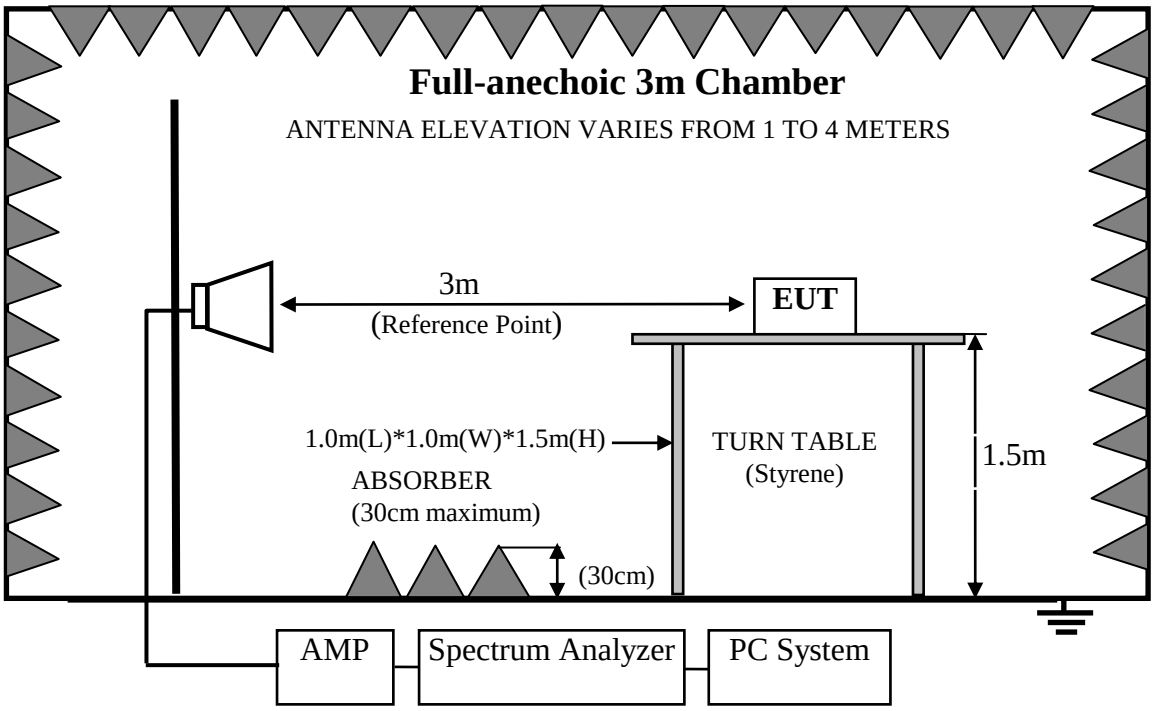
Frequency range: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3mChamber(Svswr)	AUDIX	N/A	N/A	Aug.09,22	5 Year
2.	3mChamber(SE)	AUDIX	N/A	N/A	Sep.16,22	5 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Apr.01,23	1 Year
4.	Amplifier	Agilent	83017A	MY53270084	Oct.09,22	1 Year
5.	RF Cable	EMCI	EMC104-SM-SM-15000	190407	Jul.01,22	1 Year
6.	Test Software	AUDIX	e3	6.100913a	N/A	N/A
7.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Aug.12,22	1 Year
Note: N/A means Not applicable.						

4.2.Block Diagram of Test Setup



For frequency range above 1GHz



4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.249

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark： (1) Emission Level (dBμV/m) = Reading (Receiver) (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB)
Emission Level (dBμV/m) = Reading (Spectrum) (dBμV) + Antenna Factor (dB/m) – Amp Factor (dB) + Cable Loss (dB)(above 1000MHz)

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

(4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.5.Operating Condition of EUT

4.5.1.Setup the EUT and simulator as shown as Section 4.2.
4.5.2.Turn on the power of all equipments.
4.5.3.Let EUT work in Tx mode.

4.6.Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground . The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it.EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horm antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10:2020 on radiated emission Test.

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions.

After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation show in the test setup photos.

The bandwidth of the EMI test receiver (R&S ESR7) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum’s RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level.

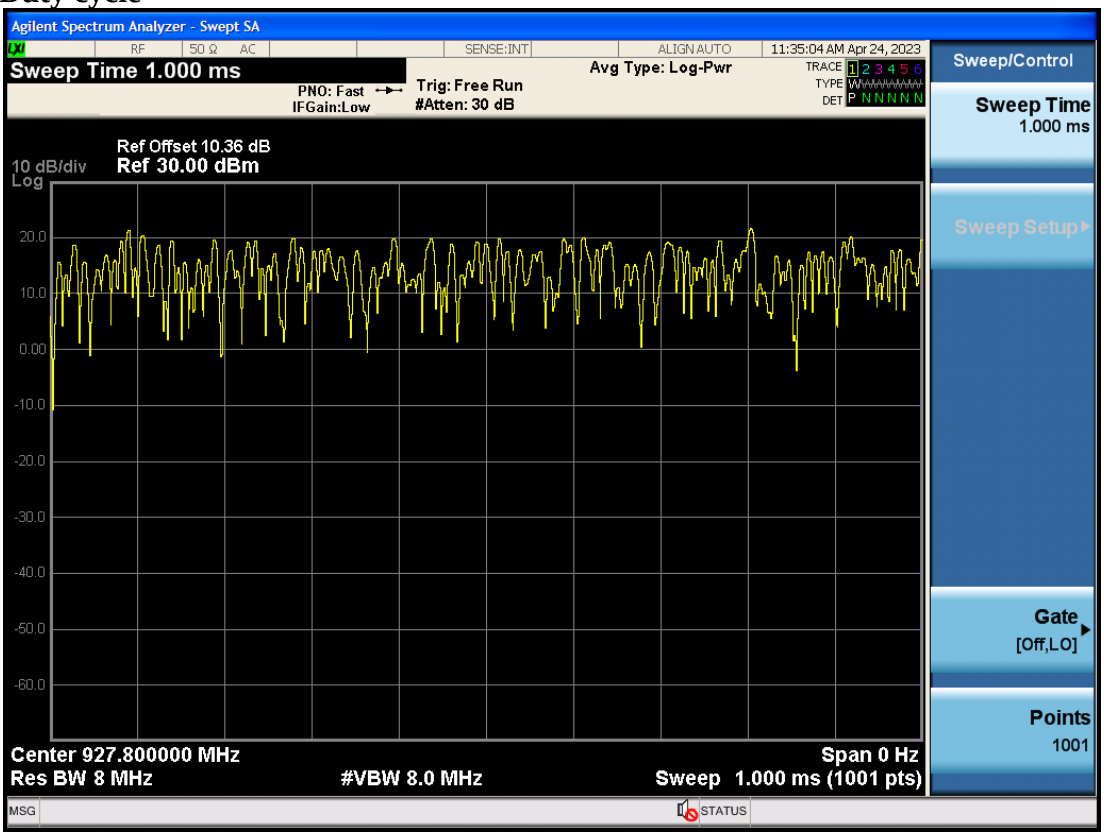
The frequency range from 30MHz to 10th harmonic (25GHz) is checked. And no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7.Radiated Emission Test Results

PASS.

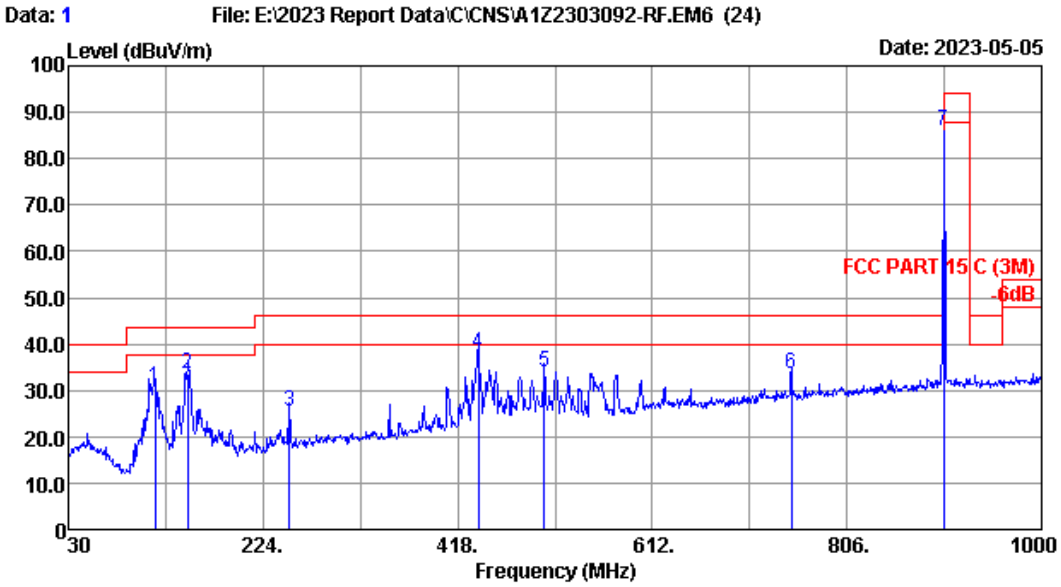
All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Duty cycle



Note: The duty cycle factor is 1.

Frequency: 30MHz~1GHz

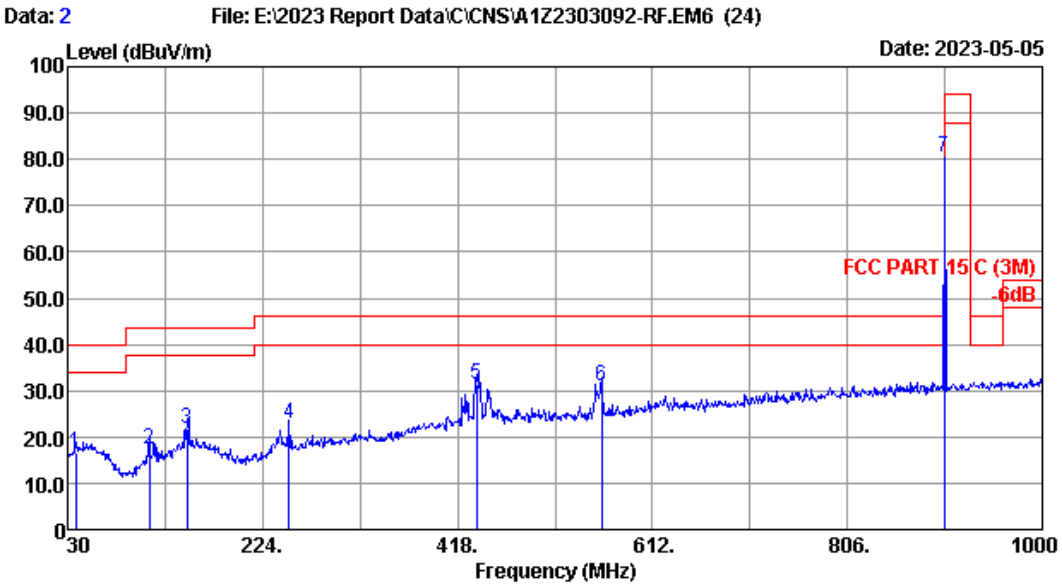


Site no. : 3m Chamber
Dis. / Ant. : 3m 2022 VULB 9168-01317
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Test Mode : FSK 1b 902.2

Data no. : 1
Ant. pol. : HORIZONTAL
Engineer : Abel

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	116.330	16.30	1.16	13.00	30.46	43.50	13.04	QP
2	149.310	19.40	1.30	12.93	33.63	43.50	9.87	QP
3	250.190	17.80	1.67	5.86	25.33	46.00	20.67	QP
4	438.370	22.72	2.29	12.90	37.91	46.00	8.09	QP
5	504.330	23.70	2.51	7.58	33.79	46.00	12.21	QP
6	750.710	27.72	3.05	2.77	33.54	46.00	12.46	QP
7	902.200	28.84	3.38	53.93	86.15	94.00	7.85	QP

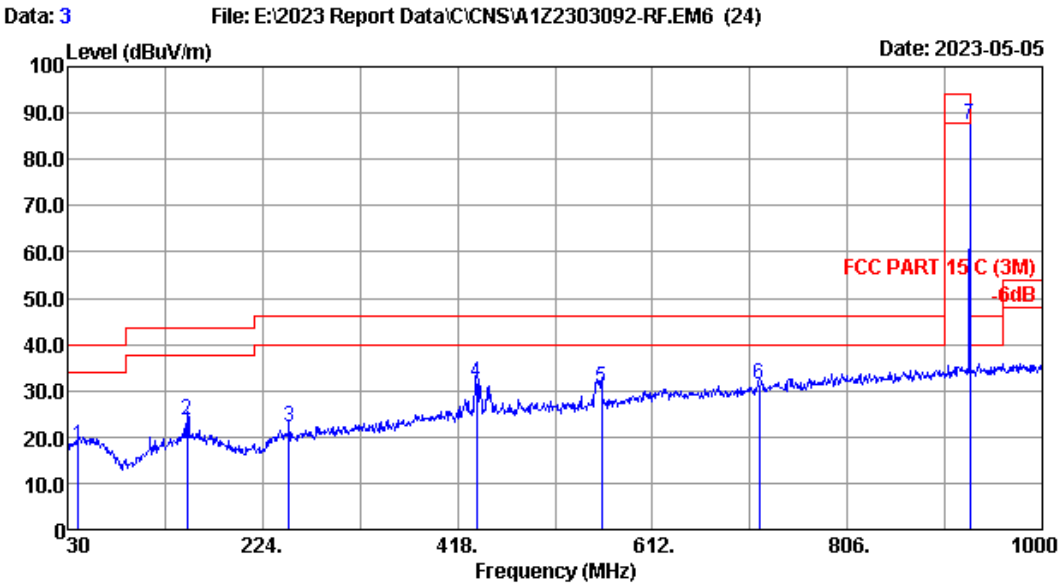
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2022 VULB 9168-01317 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56% Engineer : Abel
Test Mode : FSK 1b 902.2

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	37.760	19.20	0.61	-3.08	16.73	40.00	23.27	QP
2	111.480	16.00	1.14	0.38	17.52	43.50	25.98	QP
3	149.310	19.40	1.30	1.16	21.86	43.50	21.64	QP
4	250.190	17.80	1.67	3.23	22.70	46.00	23.30	QP
5	437.400	22.68	2.29	6.50	31.47	46.00	14.53	QP
6	561.560	24.50	2.63	3.83	30.96	46.00	15.04	QP
7	902.200	28.84	3.38	48.29	80.51	94.00	13.49	QP

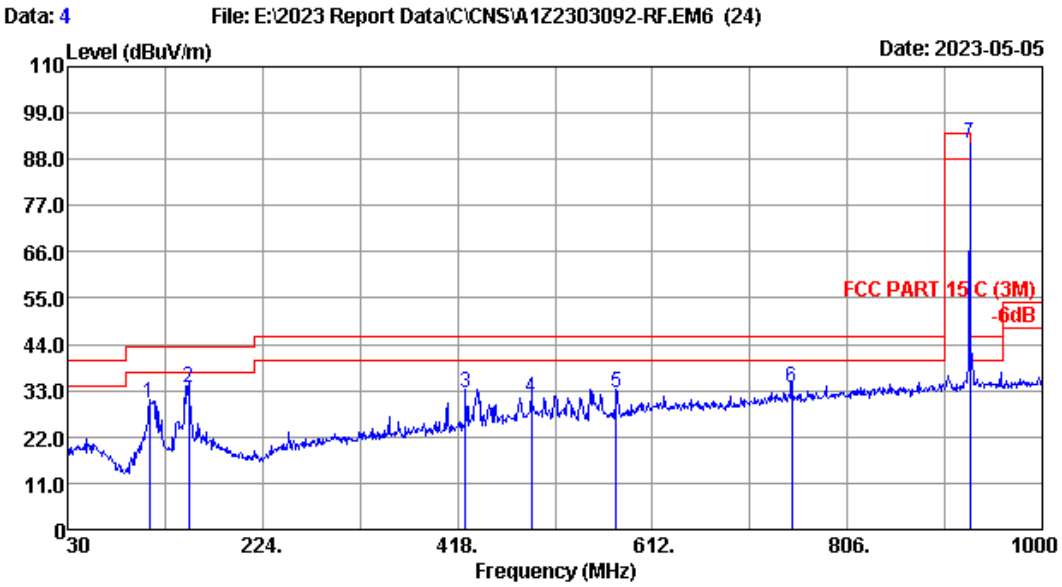
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2022 VULB 9168-01317 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56% Engineer : Abel
Test Mode : FSK 1b 927.8

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	40.670	19.50	0.63	-1.97	18.16	40.00	21.84	QP
2	149.310	19.40	1.30	2.75	23.45	43.50	20.05	QP
3	250.190	17.80	1.67	2.76	22.23	46.00	23.77	QP
4	437.400	22.68	2.29	6.58	31.55	46.00	14.45	QP
5	561.560	24.50	2.63	3.65	30.78	46.00	15.22	QP
6	718.700	27.36	2.98	1.04	31.38	46.00	14.62	QP
7	927.800	29.26	3.44	54.69	87.39	94.00	6.61	QP

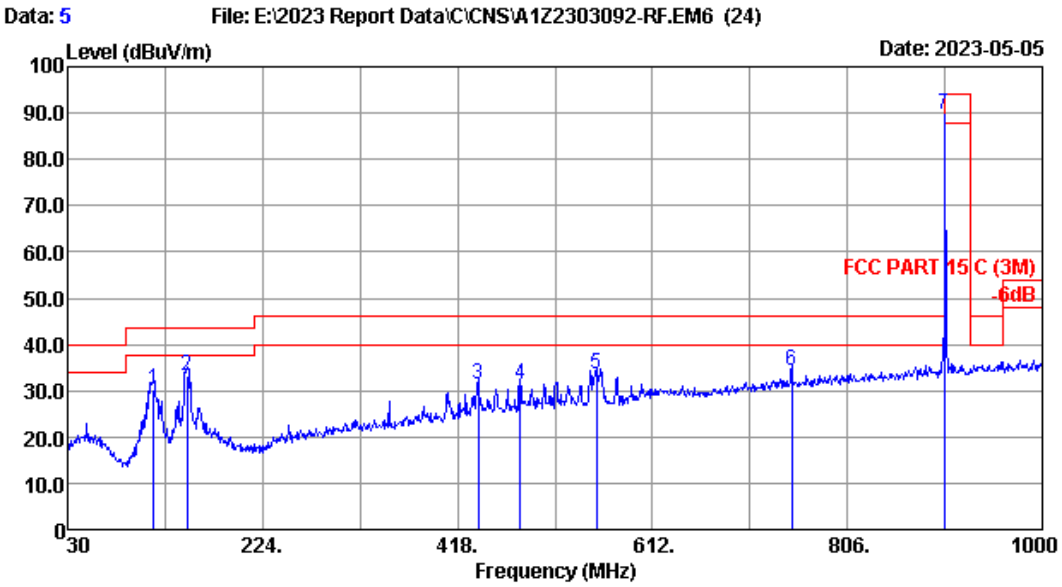
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 4
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : FSK 1b 927.8

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	111.480	16.00	1.14	12.85	29.99	43.50	13.51	QP
2	150.280	19.40	1.30	13.06	33.76	43.50	9.74	QP
3	425.760	22.34	2.25	7.81	32.40	46.00	13.60	QP
4	491.720	23.54	2.47	5.31	31.32	46.00	14.68	QP
5	576.110	24.82	2.67	4.88	32.37	46.00	13.63	QP
6	750.710	27.72	3.05	3.11	33.88	46.00	12.12	QP
7	927.800	29.26	3.44	59.23	91.93	94.00	2.07	QP

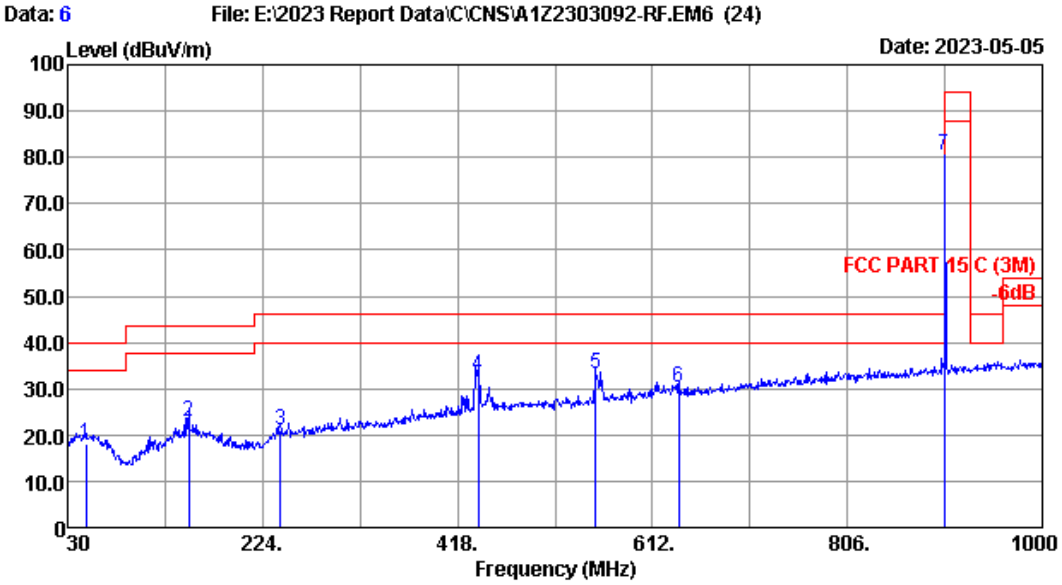
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 5
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : FSK 3 902.4

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	115.360	16.30	1.16	12.66	30.12	43.50	13.38	QP
2	149.310	19.40	1.30	12.35	33.05	43.50	10.45	QP
3	438.370	22.72	2.29	6.43	31.44	46.00	14.56	QP
4	480.080	23.30	2.43	5.63	31.36	46.00	14.64	QP
5	556.710	24.46	2.63	6.65	33.74	46.00	12.26	QP
6	750.710	27.72	3.05	3.55	34.32	46.00	11.68	QP
7	902.400	28.84	3.38	57.35	89.57	94.00	4.43	QP

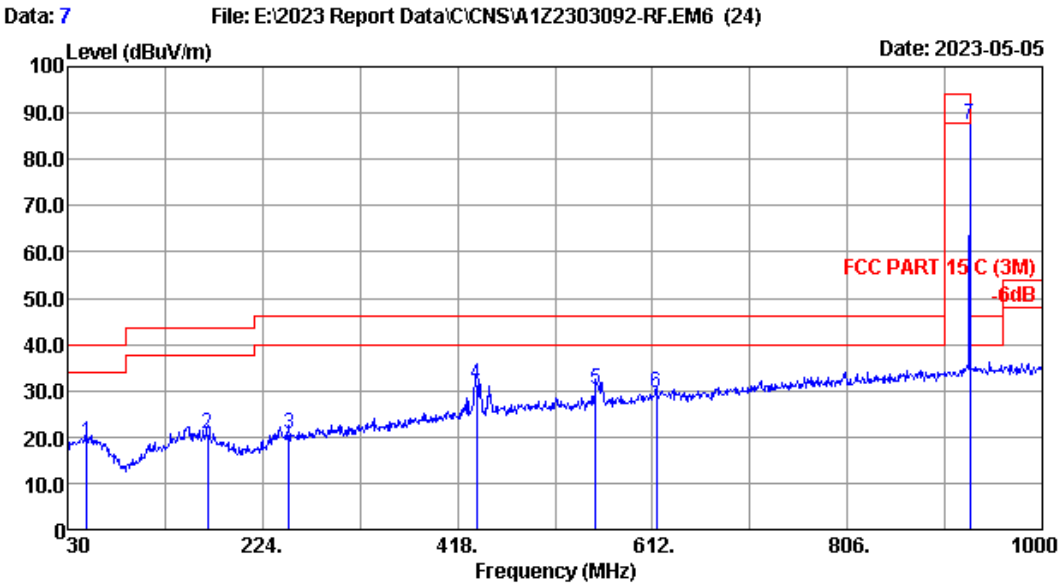
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 6
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : FSK 3 902.4

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	48.430	19.70	0.70	-2.26	18.14	40.00	21.86	QP
2	150.280	19.40	1.30	2.25	22.95	43.50	20.55	QP
3	241.460	17.63	1.64	1.77	21.04	46.00	24.96	QP
4	438.370	22.72	2.29	7.88	32.89	46.00	13.11	QP
5	555.740	24.48	2.62	6.27	33.37	46.00	12.63	QP
6	638.190	26.14	2.80	1.35	30.29	46.00	15.71	QP
7	902.400	28.84	3.38	48.05	80.27	94.00	13.73	QP

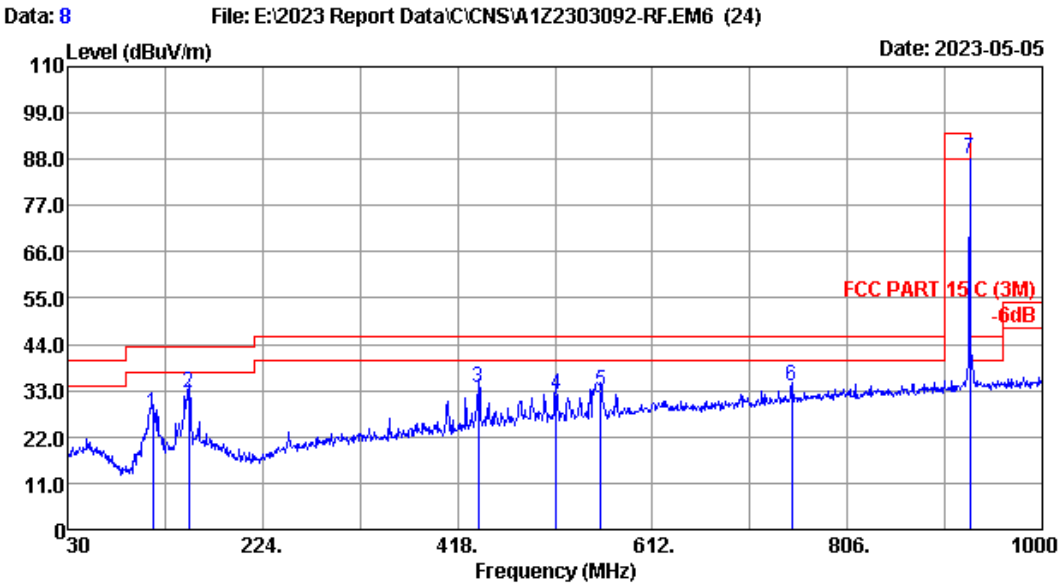
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 7
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : FSK 3 927.6

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	49.400	19.70	0.70	-1.53	18.87	40.00	21.13	QP
2	169.680	18.70	1.38	0.51	20.59	43.50	22.91	QP
3	250.190	17.80	1.67	1.04	20.51	46.00	25.49	QP
4	437.400	22.68	2.29	6.33	31.30	46.00	14.70	QP
5	555.740	24.48	2.62	3.34	30.44	46.00	15.56	QP
6	615.880	26.30	2.76	0.49	29.55	46.00	16.45	QP
7	927.600	29.24	3.44	54.69	87.37	94.00	6.63	QP

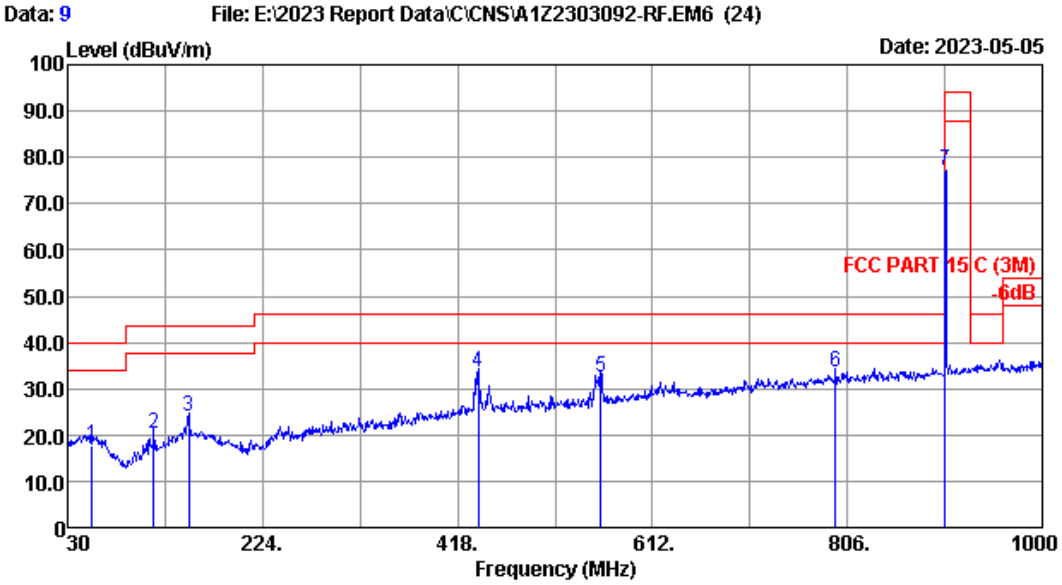
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 8
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : FSK 3 927.6

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	114.390	16.30	1.16	10.17	27.63	43.50	15.87	QP
2	150.280	19.40	1.30	11.82	32.52	43.50	10.98	QP
3	438.370	22.72	2.29	8.80	33.81	46.00	12.19	QP
4	515.970	23.90	2.54	5.47	31.91	46.00	14.09	QP
5	560.590	24.45	2.63	5.78	32.86	46.00	13.14	QP
6	750.710	27.72	3.05	3.18	33.95	46.00	12.05	QP
7	927.600	29.24	3.44	55.47	88.15	94.00	5.85	QP

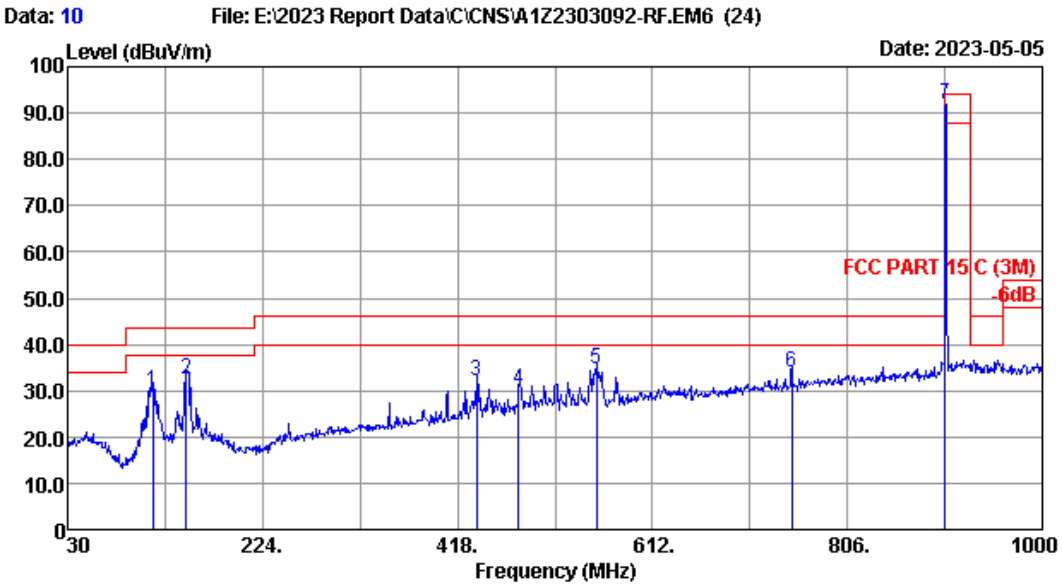
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 9
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT1 903.2

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	54.250	19.60	0.74	-2.67	17.67	40.00	22.33	QP
2	115.360	16.30	1.16	2.92	20.38	43.50	23.12	QP
3	150.280	19.40	1.30	3.16	23.86	43.50	19.64	QP
4	438.370	22.72	2.29	8.45	33.46	46.00	12.54	QP
5	560.590	24.45	2.63	5.54	32.62	46.00	13.38	QP
6	794.360	28.08	3.15	2.24	33.47	46.00	12.53	QP
7	903.200	28.86	3.39	44.96	77.21	94.00	16.79	QP

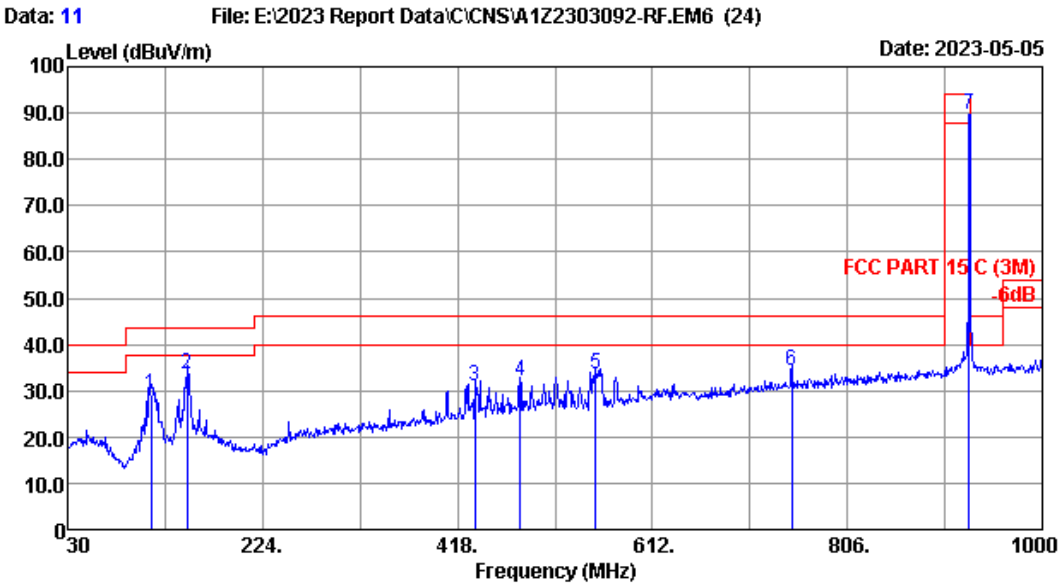
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 10
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT1 903.2

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	114.390	16.30	1.16	12.31	29.77	43.50	13.73	QP
2	148.340	19.30	1.29	11.84	32.43	43.50	11.07	QP
3	437.400	22.68	2.29	7.20	32.17	46.00	13.83	QP
4	479.110	23.26	2.43	4.59	30.28	46.00	15.72	QP
5	556.710	24.46	2.63	7.60	34.69	46.00	11.31	QP
6	750.710	27.72	3.05	3.30	34.07	46.00	11.93	QP
7	903.200	28.86	3.39	59.59	91.84	94.00	2.16	QP

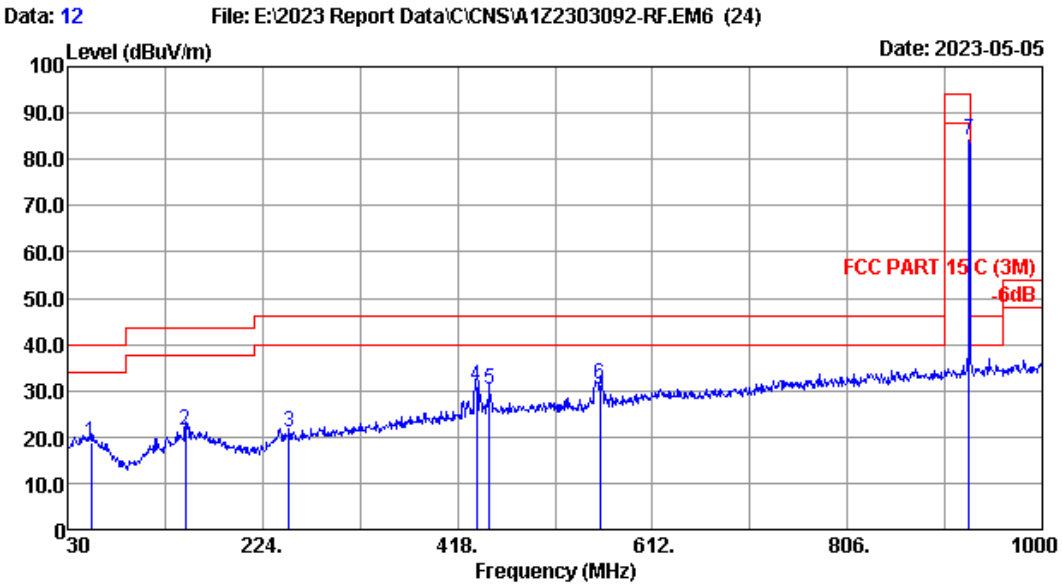
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 11
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT1 927.2

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	113.420	16.20	1.15	11.93	29.28	43.50	14.22	QP
2	149.310	19.40	1.30	12.79	33.49	43.50	10.01	QP
3	435.460	22.60	2.28	6.08	30.96	46.00	15.04	QP
4	480.080	23.30	2.43	6.20	31.93	46.00	14.07	QP
5	555.740	24.48	2.62	6.48	33.58	46.00	12.42	QP
6	750.710	27.72	3.05	3.67	34.44	46.00	11.56	QP
7	927.200	29.24	3.44	56.89	89.57	94.00	4.43	QP

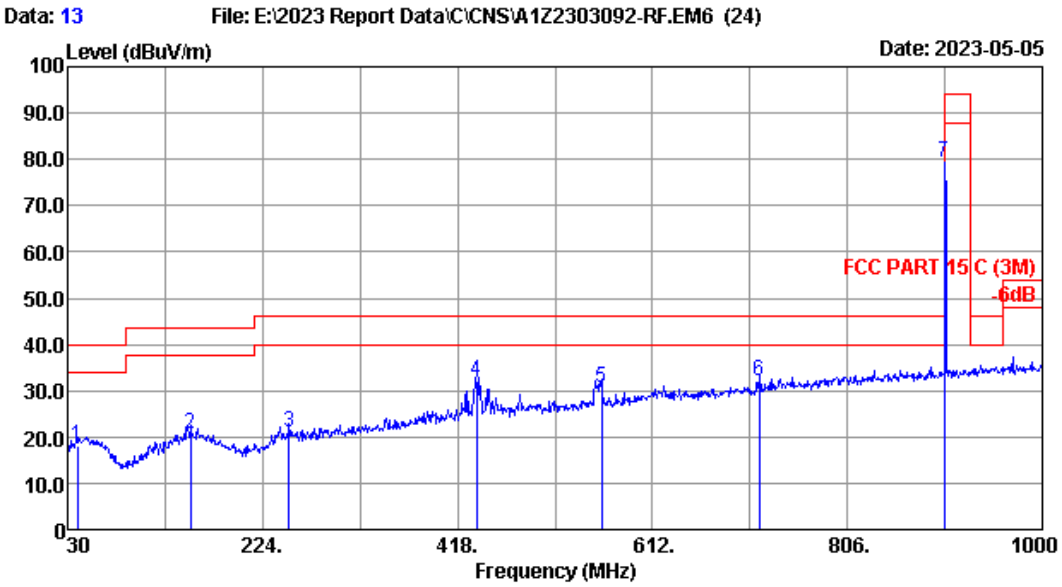
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 12
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT1 927.2

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	53.280	19.70	0.73	-1.74	18.69	40.00	21.31	QP
2	147.370	19.30	1.29	0.84	21.43	43.50	22.07	QP
3	250.190	17.80	1.67	1.44	20.91	46.00	25.09	QP
4	437.400	22.68	2.29	6.00	30.97	46.00	15.03	QP
5	450.010	23.10	2.33	4.80	30.23	46.00	15.77	QP
6	559.620	24.40	2.63	4.24	31.27	46.00	14.73	QP
7	927.200	29.24	3.44	51.35	84.03	94.00	9.97	QP

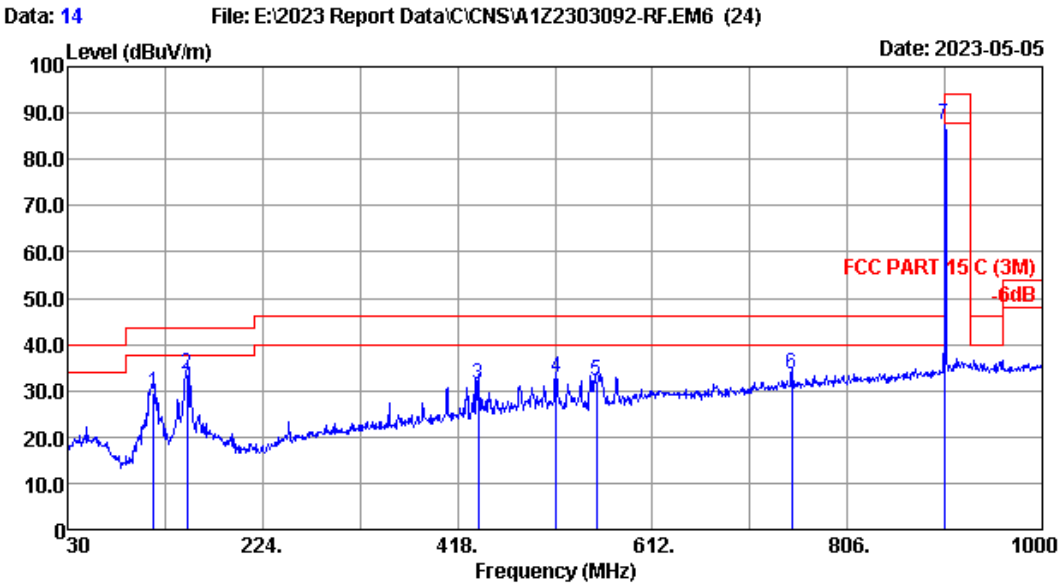
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 13
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT2 902.8

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	39.700	19.40	0.63	-2.02	18.01	40.00	21.99	QP
2	152.220	19.40	1.31	-0.10	20.61	43.50	22.89	QP
3	250.190	17.80	1.67	1.50	20.97	46.00	25.03	QP
4	437.400	22.68	2.29	7.03	32.00	46.00	14.00	QP
5	561.560	24.50	2.63	3.47	30.60	46.00	15.40	QP
6	718.700	27.36	2.98	1.69	32.03	46.00	13.97	QP
7	902.800	28.86	3.39	47.26	79.51	94.00	14.49	QP

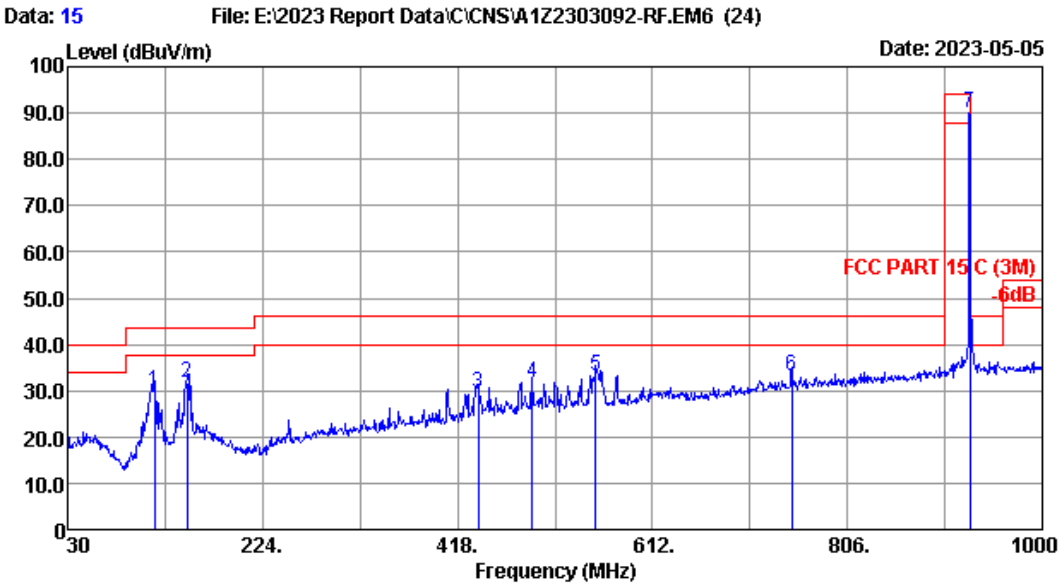
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 14
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT2 902.8

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	115.360	16.30	1.16	12.10	29.56	43.50	13.94	QP
2	149.310	19.40	1.30	12.99	33.69	43.50	9.81	QP
3	438.370	22.72	2.29	6.52	31.53	46.00	14.47	QP
4	515.970	23.90	2.54	6.50	32.94	46.00	13.06	QP
5	556.710	24.46	2.63	4.92	32.01	46.00	13.99	QP
6	750.710	27.72	3.05	2.91	33.68	46.00	12.32	QP
7	902.800	28.86	3.39	55.24	87.49	94.00	6.51	QP

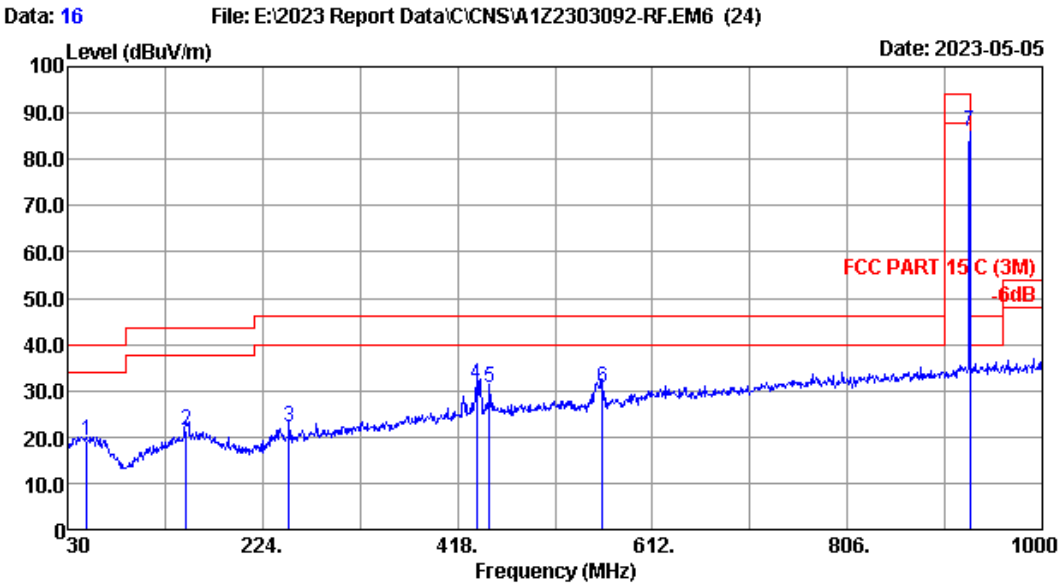
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 15
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT2 927.6

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	116.330	16.30	1.16	12.61	30.07	43.50	13.43	QP
2	149.310	19.40	1.30	11.00	31.70	43.50	11.80	QP
3	438.370	22.72	2.29	4.52	29.53	46.00	16.47	QP
4	492.690	23.56	2.48	5.81	31.85	46.00	14.15	QP
5	555.740	24.48	2.62	6.29	33.39	46.00	12.61	QP
6	750.710	27.72	3.05	2.47	33.24	46.00	12.76	QP
7	927.600	29.24	3.44	57.21	89.89	94.00	4.11	QP

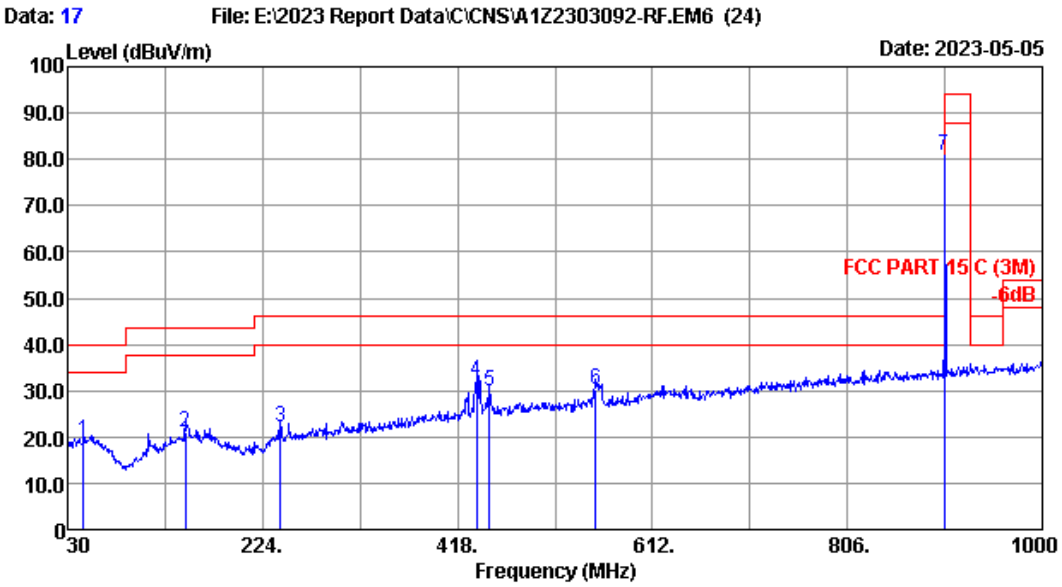
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 16
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT2 927.6

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	49.400	19.70	0.70	-1.29	19.11	40.00	20.89	QP
2	148.340	19.30	1.29	0.94	21.53	43.50	21.97	QP
3	250.190	17.80	1.67	2.66	22.13	46.00	23.87	QP
4	437.400	22.68	2.29	6.27	31.24	46.00	14.76	QP
5	450.010	23.10	2.33	5.04	30.47	46.00	15.53	QP
6	562.530	24.55	2.64	3.37	30.56	46.00	15.44	QP
7	927.600	29.24	3.44	53.30	85.98	94.00	8.02	QP

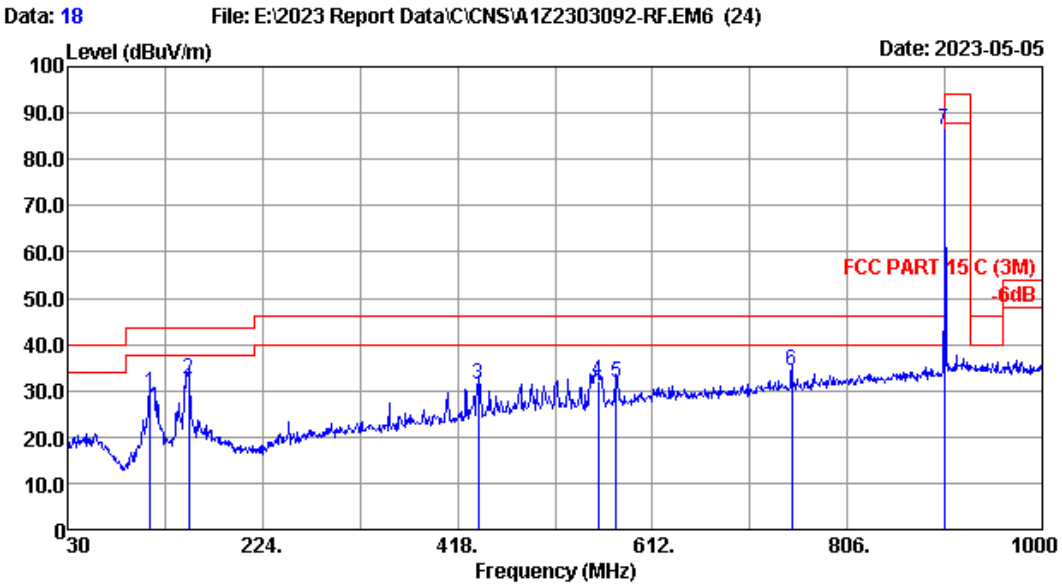
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 17
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT3 902.4

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	45.520	19.80	0.67	-1.22	19.25	40.00	20.75	QP
2	147.370	19.30	1.29	0.54	21.13	43.50	22.37	QP
3	241.460	17.63	1.64	2.91	22.18	46.00	23.82	QP
4	437.400	22.68	2.29	6.96	31.93	46.00	14.07	QP
5	450.010	23.10	2.33	4.48	29.91	46.00	16.09	QP
6	555.740	24.48	2.62	3.34	30.44	46.00	15.56	QP
7	902.400	28.84	3.38	48.41	80.63	94.00	13.37	QP

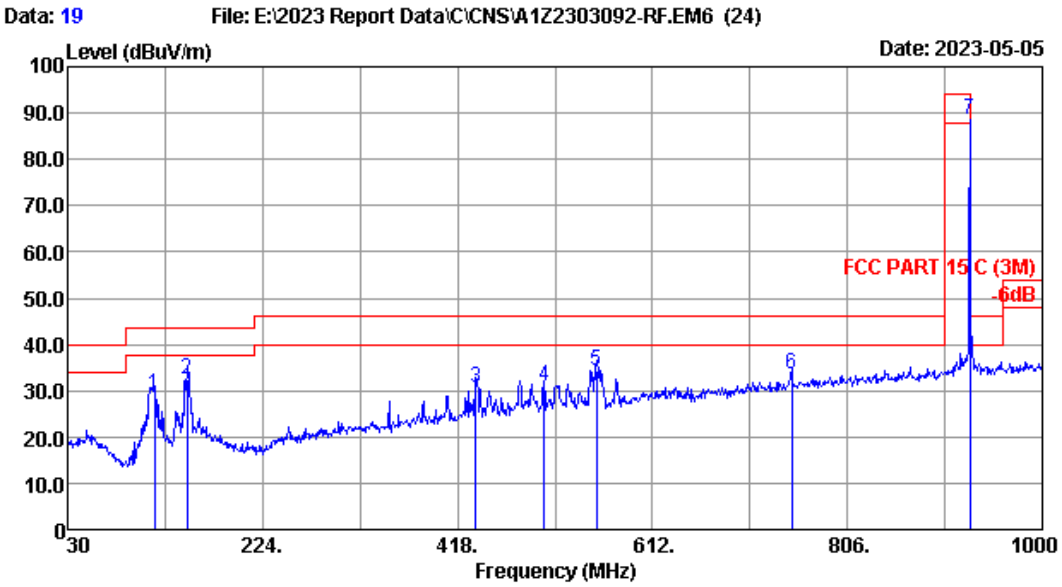
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 18
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT3 902.4

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	112.450	16.10	1.15	12.27	29.52	43.50	13.98	QP
2	150.280	19.40	1.30	11.94	32.64	43.50	10.86	QP
3	438.370	22.72	2.29	6.36	31.37	46.00	14.63	QP
4	557.680	24.44	2.63	5.03	32.10	46.00	13.90	QP
5	576.110	24.82	2.67	4.23	31.72	46.00	14.28	QP
6	750.710	27.72	3.05	3.50	34.27	46.00	11.73	QP
7	902.400	28.84	3.38	53.97	86.19	94.00	7.81	QP

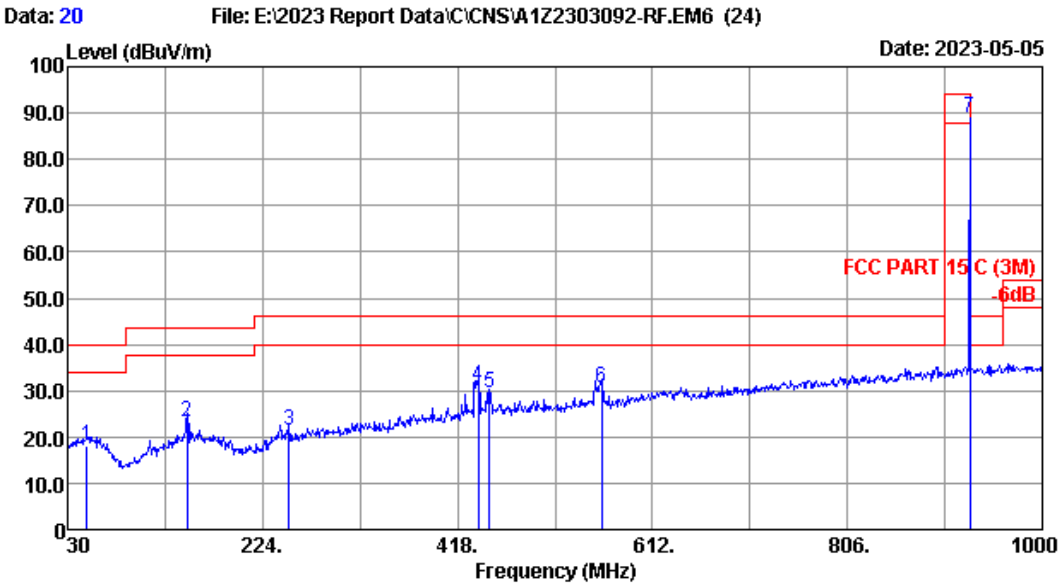
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 19
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT3 927.6

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	116.330	16.30	1.16	11.71	29.17	43.50	14.33	QP
2	149.310	19.40	1.30	11.81	32.51	43.50	10.99	QP
3	436.430	22.64	2.29	5.75	30.68	46.00	15.32	QP
4	504.330	23.70	2.51	4.85	31.06	46.00	14.94	QP
5	556.710	24.46	2.63	7.32	34.41	46.00	11.59	QP
6	750.710	27.72	3.05	2.80	33.57	46.00	12.43	QP
7	927.600	29.24	3.44	55.99	88.67	94.00	5.33	QP

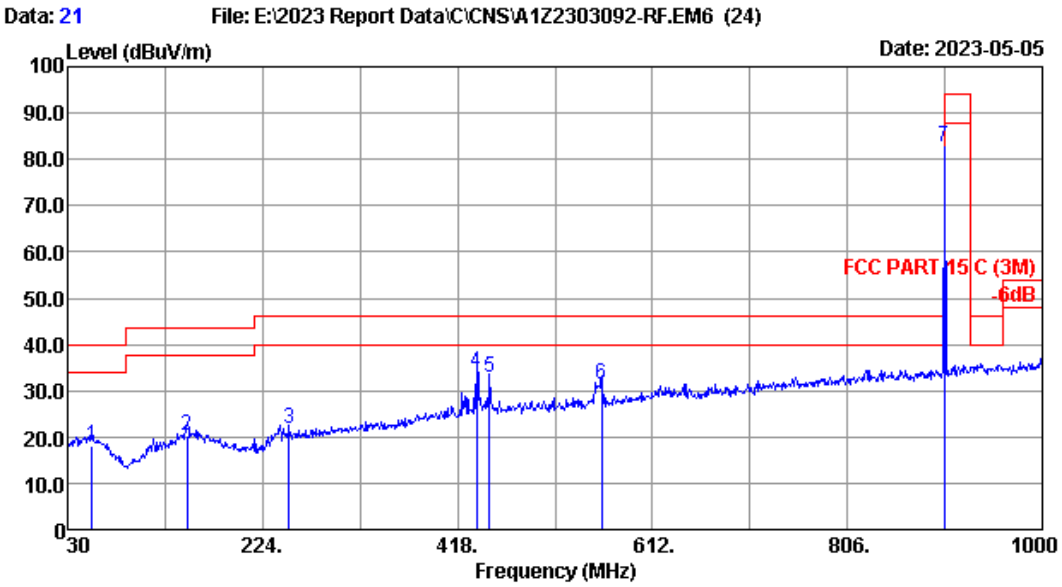
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 20
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT3 927.6

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	49.400	19.70	0.70	-2.15	18.25	40.00	21.75	QP
2	149.310	19.40	1.30	2.50	23.20	43.50	20.30	QP
3	250.190	17.80	1.67	1.99	21.46	46.00	24.54	QP
4	438.370	22.72	2.29	5.99	31.00	46.00	15.00	QP
5	450.010	23.10	2.33	3.95	29.38	46.00	16.62	QP
6	561.560	24.50	2.63	3.35	30.48	46.00	15.52	QP
7	927.600	29.24	3.44	56.38	89.06	94.00	4.94	QP

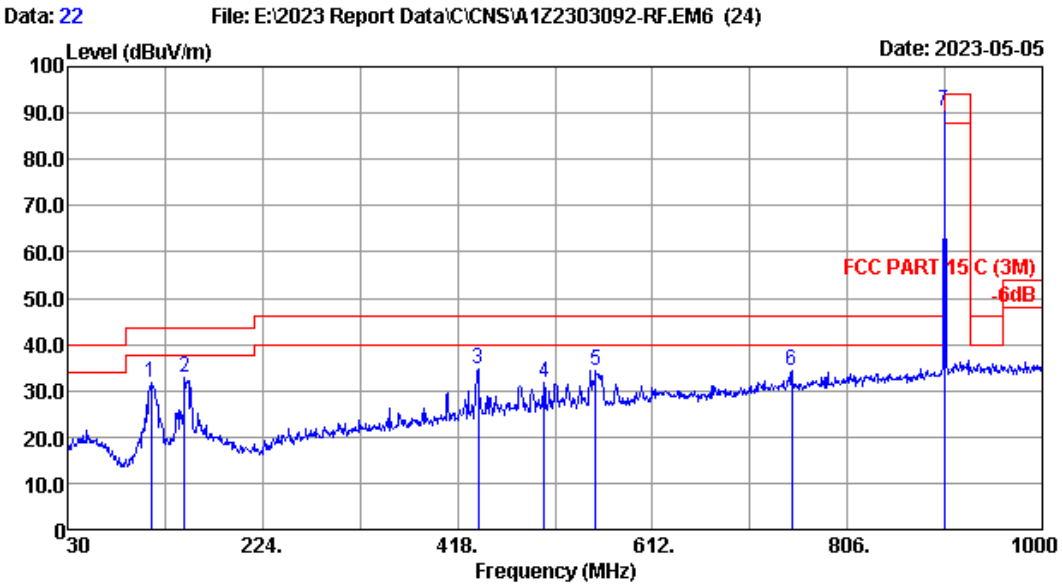
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 21
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT4 902.2

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	54.250	19.60	0.74	-2.14	18.20	40.00	21.80	QP
2	149.310	19.40	1.30	-0.25	20.45	43.50	23.05	QP
3	250.190	17.80	1.67	2.15	21.62	46.00	24.38	QP
4	437.400	22.68	2.29	8.81	33.78	46.00	12.22	QP
5	450.010	23.10	2.33	7.24	32.67	46.00	13.33	QP
6	561.560	24.50	2.63	4.25	31.38	46.00	14.62	QP
7	902.200	28.84	3.38	50.43	82.65	94.00	11.35	QP

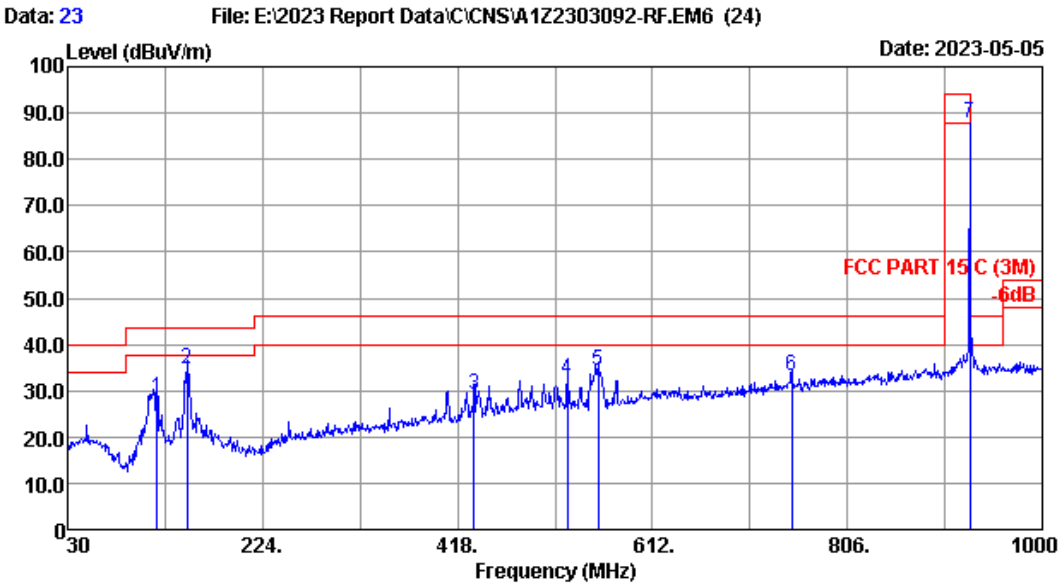
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 22
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT4 902.2

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	113.420	16.20	1.15	14.34	31.69	43.50	11.81	QP
2	146.400	19.30	1.28	12.18	32.76	43.50	10.74	QP
3	438.370	22.72	2.29	9.52	34.53	46.00	11.47	QP
4	504.330	23.70	2.51	5.39	31.60	46.00	14.40	QP
5	555.740	24.48	2.62	7.24	34.34	46.00	11.66	QP
6	750.710	27.72	3.05	3.55	34.32	46.00	11.68	QP
7	902.200	28.84	3.38	58.24	90.46	94.00	3.54	QP

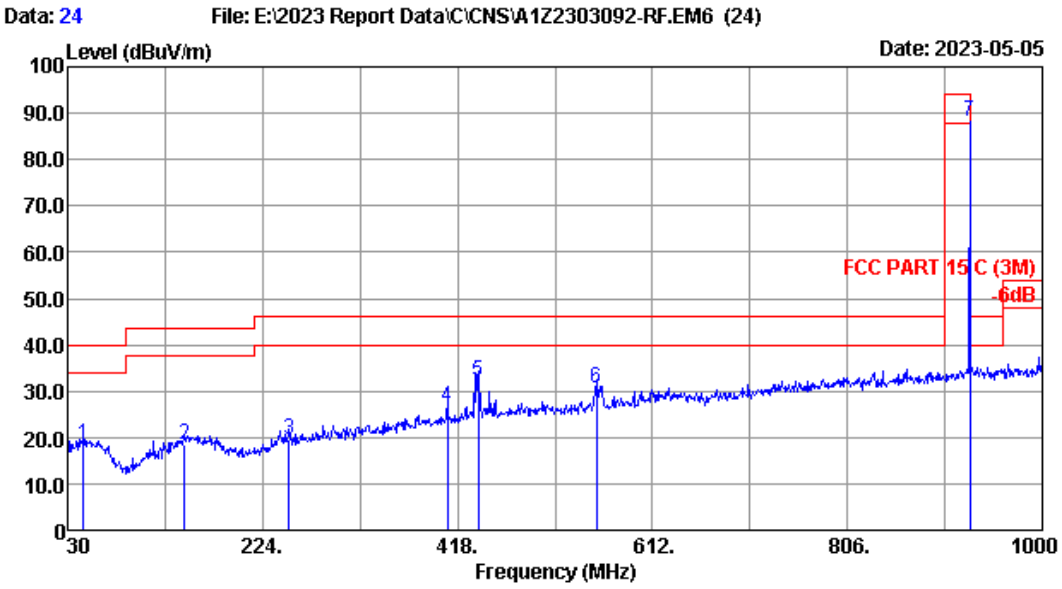
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Data no. : 23
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT4 927.8

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	119.240	16.50	1.18	10.91	28.59	43.50	14.91	QP
2	149.310	19.40	1.30	13.86	34.56	43.50	8.94	QP
3	434.490	22.58	2.28	4.47	29.33	46.00	16.67	QP
4	527.610	23.96	2.56	5.96	32.48	46.00	13.52	QP
5	557.680	24.44	2.63	7.21	34.28	46.00	11.72	QP
6	750.710	27.72	3.05	2.45	33.22	46.00	12.78	QP
7	927.800	29.26	3.44	54.96	87.66	94.00	6.34	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

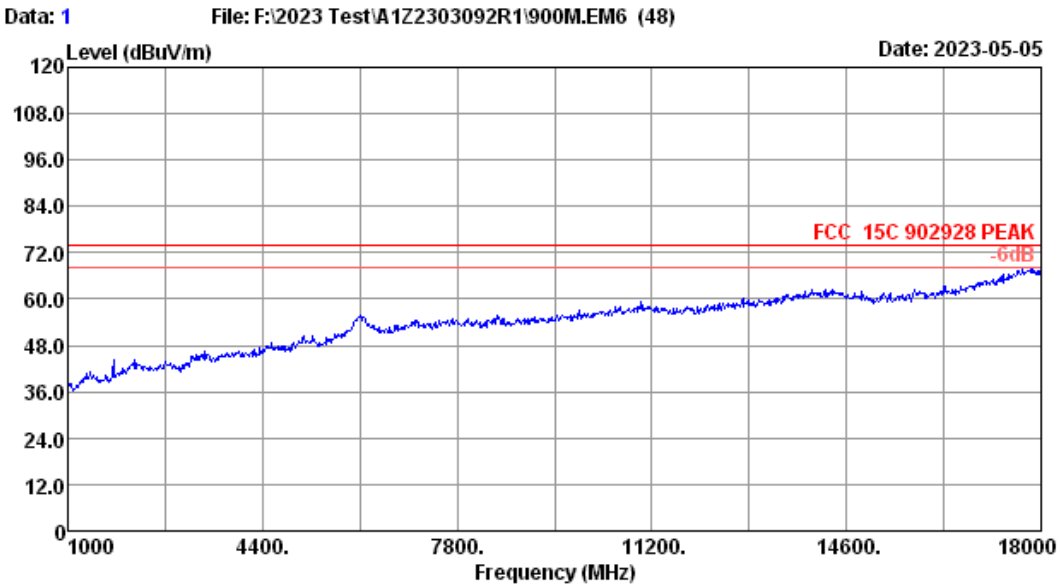


Site no. : 3m Chamber
Data no. : 24
Dis. / Ant. : 3m 2022 VULB 9168-01317
Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.2*C/56%
Engineer : Abel
Test Mode : OFDM OPT4 927.8

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	45.520	19.80	0.67	-1.90	18.57	40.00	21.43	QP
2	146.400	19.30	1.28	-2.15	18.43	43.50	25.07	QP
3	250.190	17.80	1.67	0.23	19.70	46.00	26.30	QP
4	408.300	21.66	2.19	2.78	26.63	46.00	19.37	QP
5	438.370	22.72	2.29	7.14	32.15	46.00	13.85	QP
6	556.710	24.46	2.63	3.44	30.53	46.00	15.47	QP
7	927.800	29.26	3.44	55.67	88.37	94.00	5.63	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz

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Site no.      : 3m Chamber                    Data no.   : 1
Dis. / Ant.   : 3m   2022 MCTD1209-3006       Ant. pol.  : HORIZONTAL
Limit         : FCC  15C 902928 PEAK
Env. / Ins.   : 23.2*C/52.5%                  Engineer   : nier
Test Mode     : FSK_1b 902.2 MHz  TX Mode
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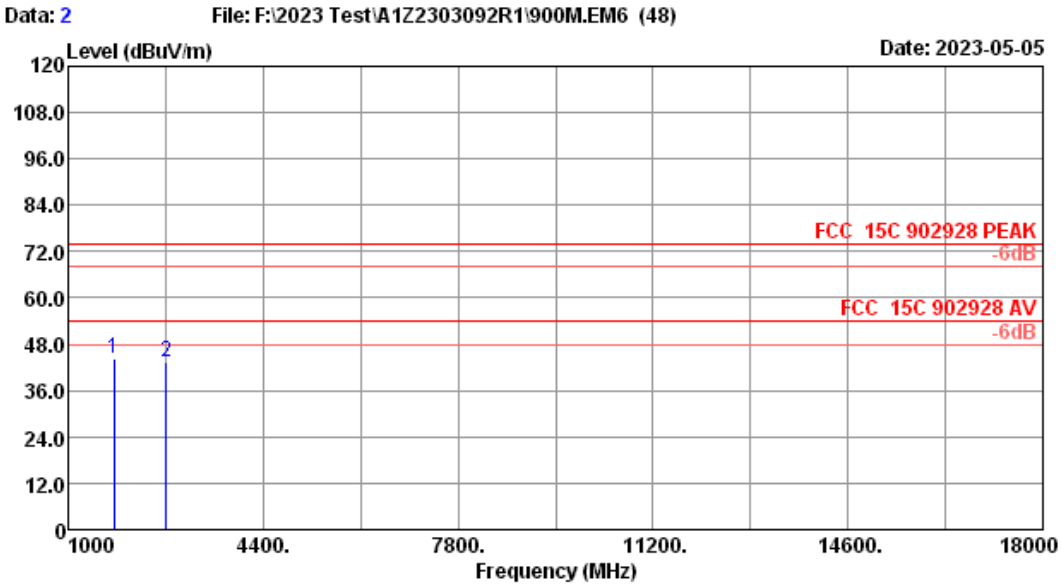
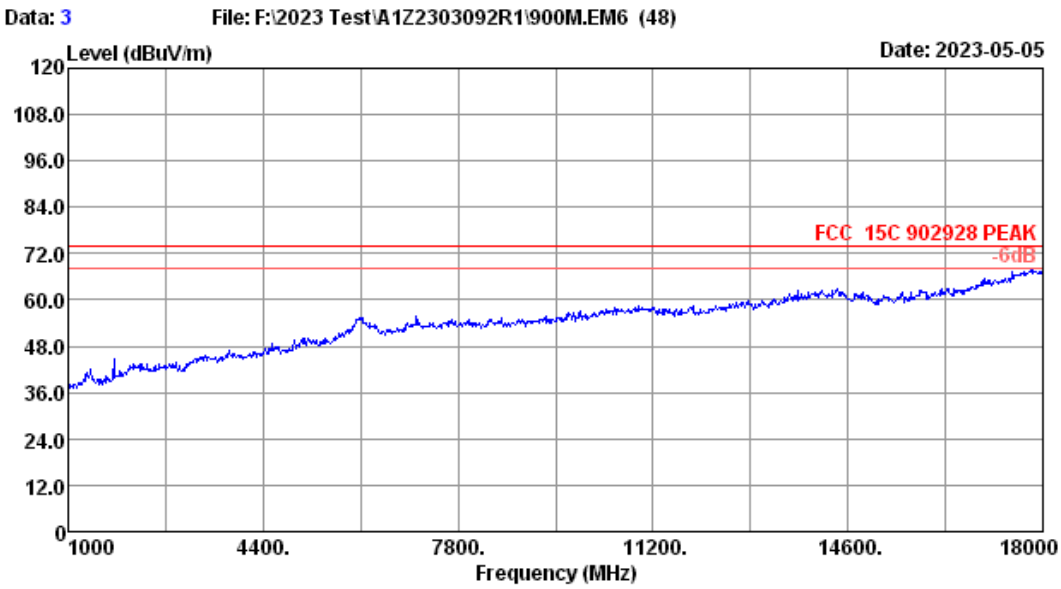


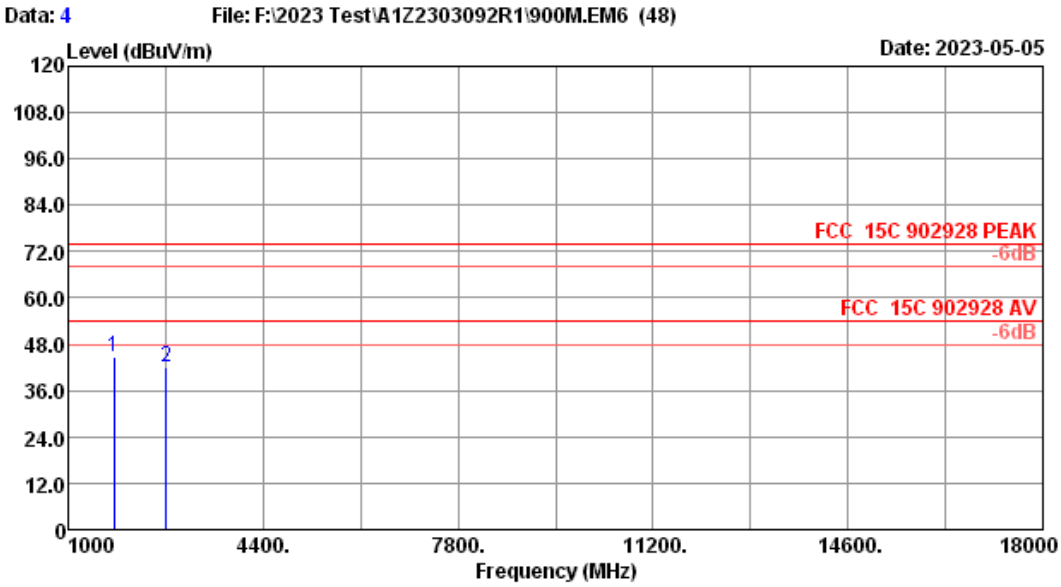
Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : FSK_1b 902.2 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1804.40	25.70	1.98	34.61	51.34	44.41	74.00	29.59	Peak
2	2706.60	28.70	2.45	34.33	46.52	43.34	74.00	30.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



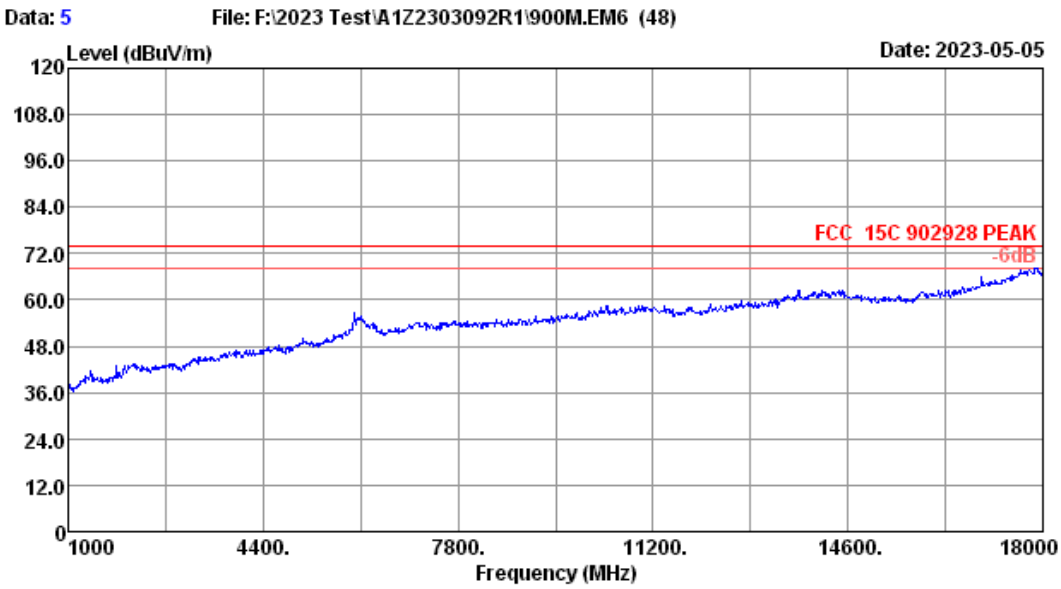

```
Site no.      : 3m Chamber                  Data no.   : 3
Dis. / Ant.   : 3m   2022 MCTD1209-3006     Ant. pol.  : VERTICAL
Limit         : FCC  15C 902928 PEAK
Env. / Ins.   : 23.2*C/52.5%                Engineer   : nier
Test Mode     : FSK_1b 902.2 MHz  TX Mode
```



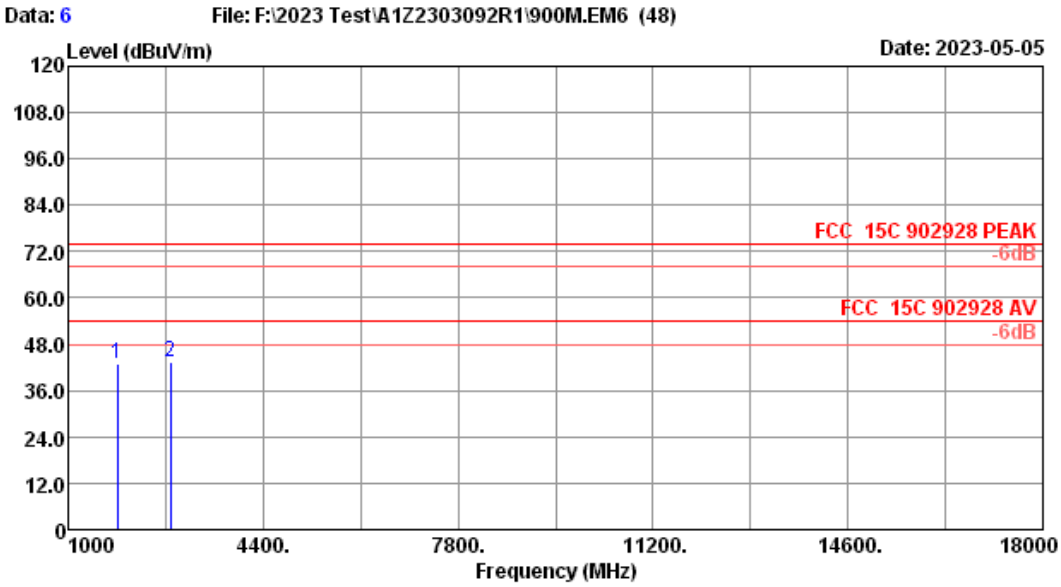
Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : FSK_1b 902.2 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1804.40	25.70	1.98	34.61	51.86	44.93	74.00	29.07	Peak
2	2706.00	28.70	2.45	34.33	45.31	42.13	74.00	31.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



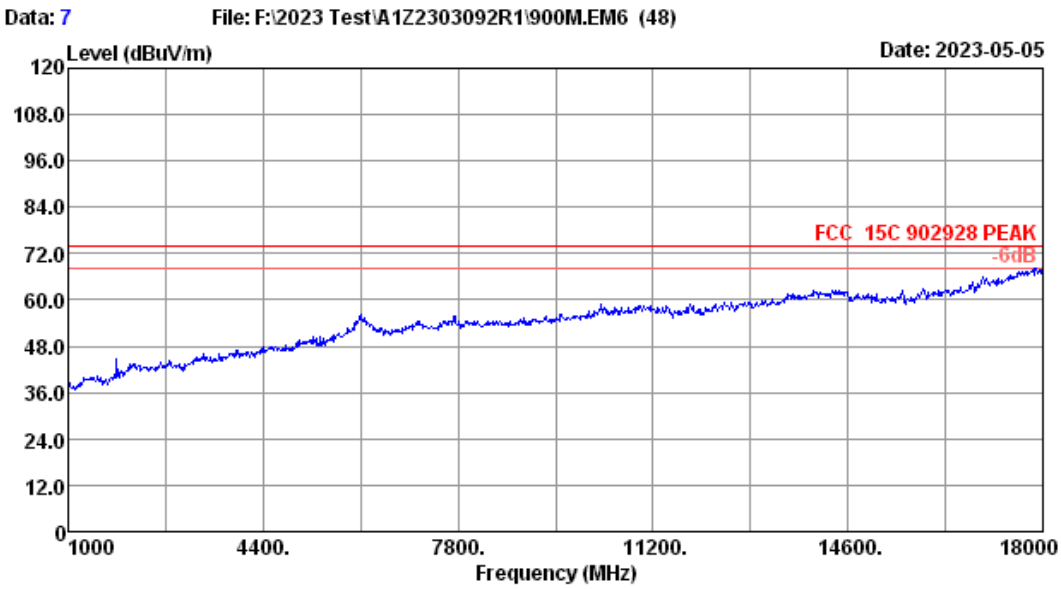

```
Site no.      : 3m Chamber                  Data no.   : 5
Dis. / Ant.   : 3m   2022 MCTD1209-3006     Ant. pol.  : VERTICAL
Limit         : FCC  15C 902928 PEAK
Env. / Ins.   : 23.2*C/52.5%                Engineer   : nier
Test Mode     : FSK_1b 927.8 MHz  TX Mode
```



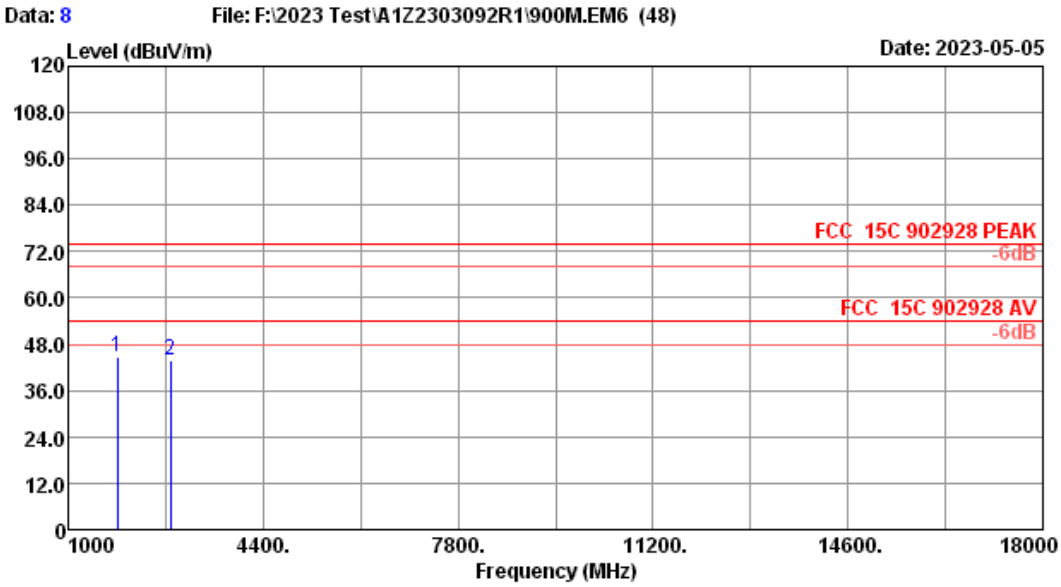
Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : FSK_1b 927.8 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1855.60	26.00	2.01	34.55	49.29	42.75	74.00	31.25	Peak
2	2783.40	28.77	2.49	34.32	46.53	43.47	74.00	30.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



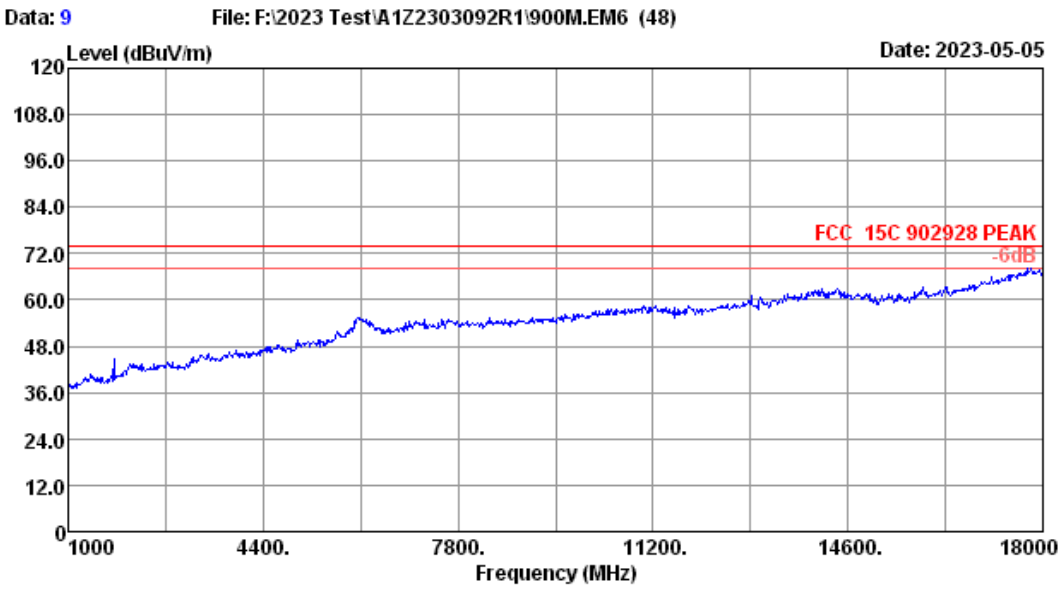
Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : FSK_1b 927.8 MHz TX Mode



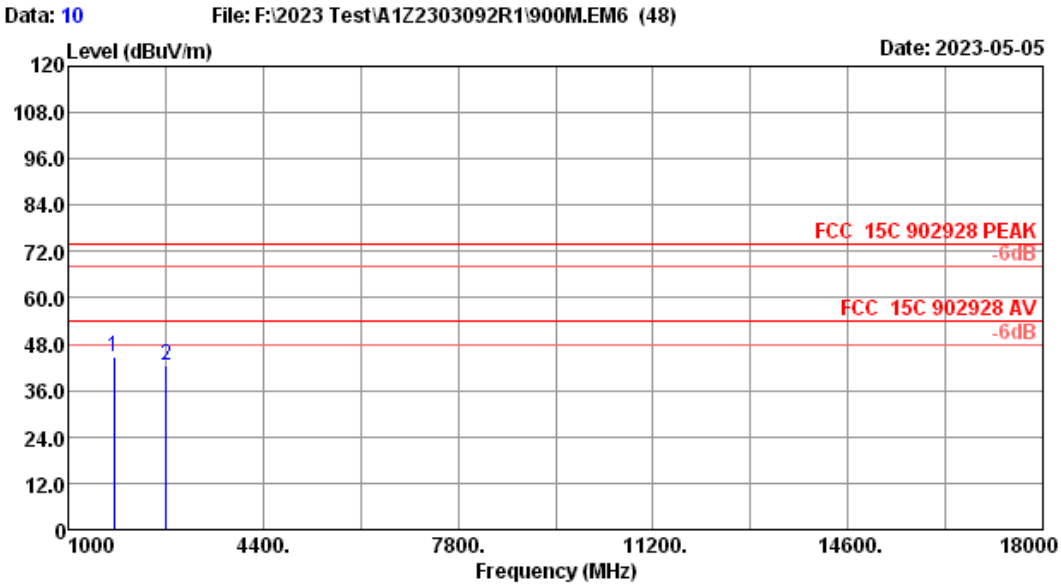
Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : FSK_1b 927.8 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1855.60	26.00	2.01	34.55	51.22	44.68	74.00	29.32	Peak
2	2783.40	28.77	2.49	34.32	46.87	43.81	74.00	30.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



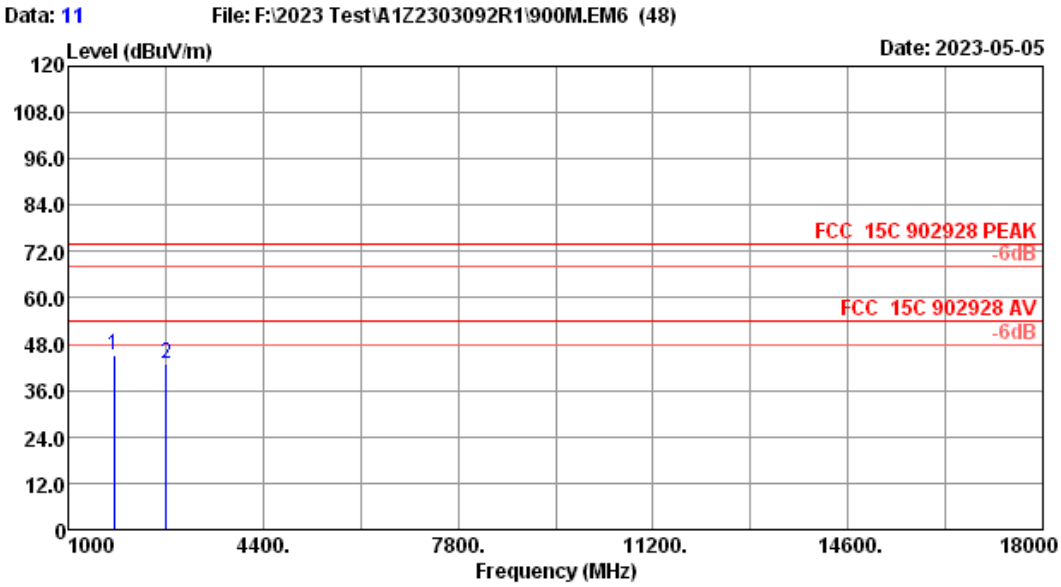

```
Site no.      : 3m Chamber                    Data no.   : 9
Dis. / Ant.   : 3m   2022 MCTD1209-3006       Ant. pol.  : HORIZONTAL
Limit         : FCC  15C 902928 PEAK
Env. / Ins.   : 23.2*C/52.5%                  Engineer   : nier
Test Mode     : FSK_3_2 902.4 MHz  TX Mode
```



Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : FSK_3_2 902.4 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1804.80	25.70	1.98	34.61	51.77	44.84	74.00	29.16	Peak
2	2707.20	28.70	2.45	34.33	45.68	42.50	74.00	31.50	Peak

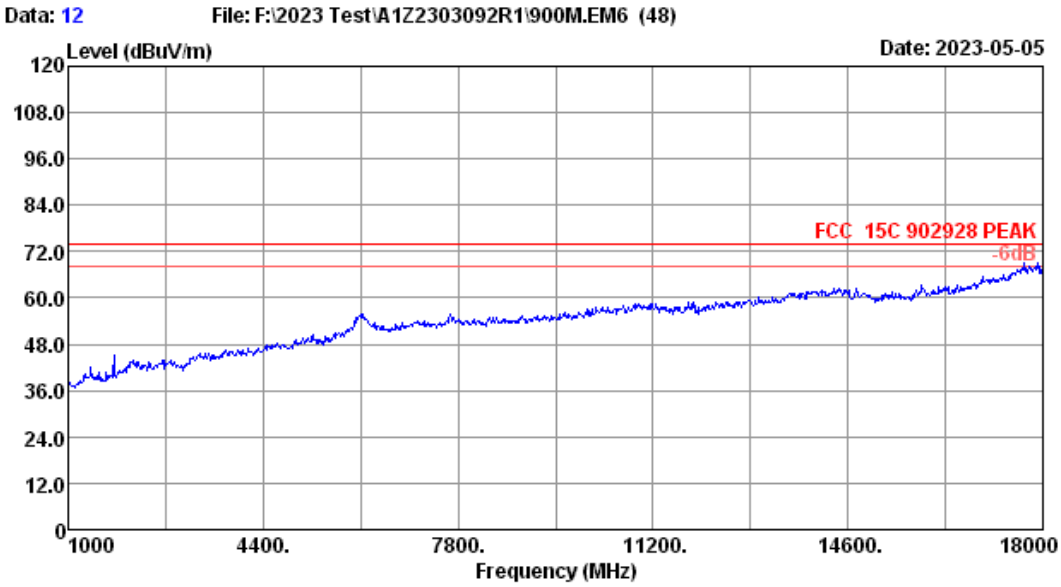
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



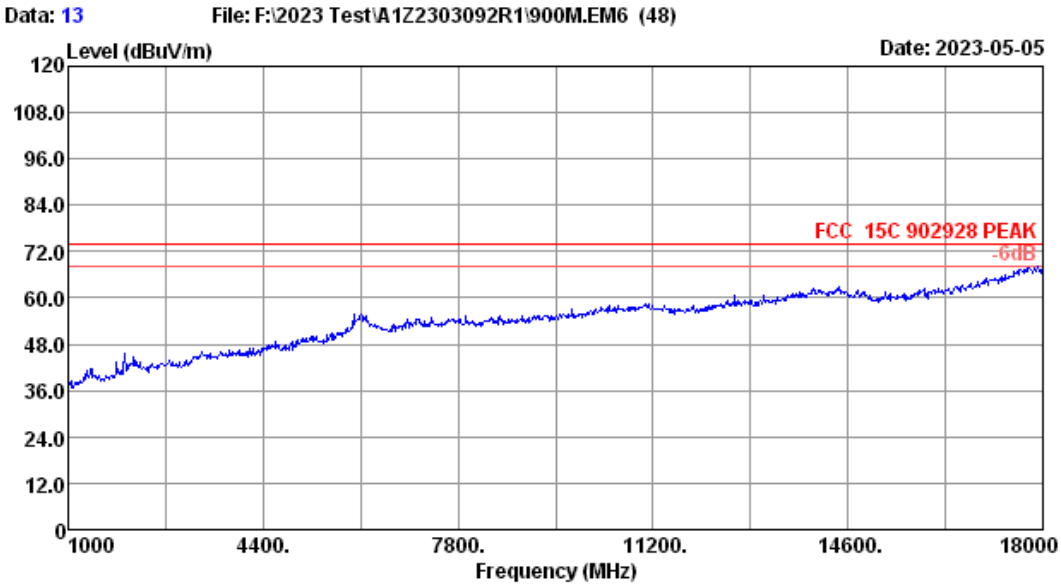
Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : FSK_3_2 902.4 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1804.80	25.70	1.98	34.61	52.21	45.28	74.00	28.72	Peak
2	2707.20	28.70	2.45	34.33	46.00	42.82	74.00	31.18	Peak

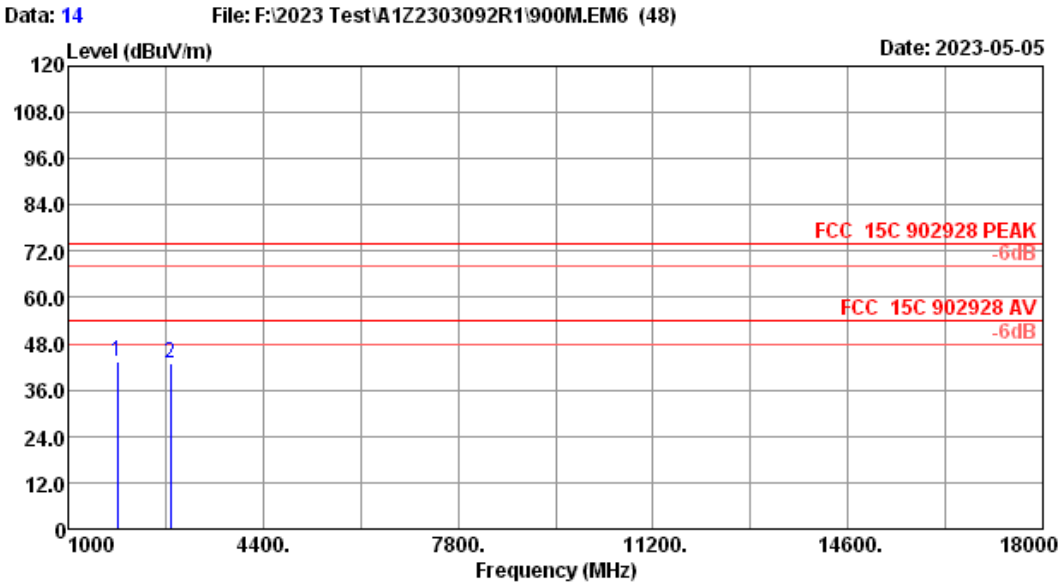
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 12
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC 15C 902928 PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: FSK_3_2 902.4 MHz TX Mode		



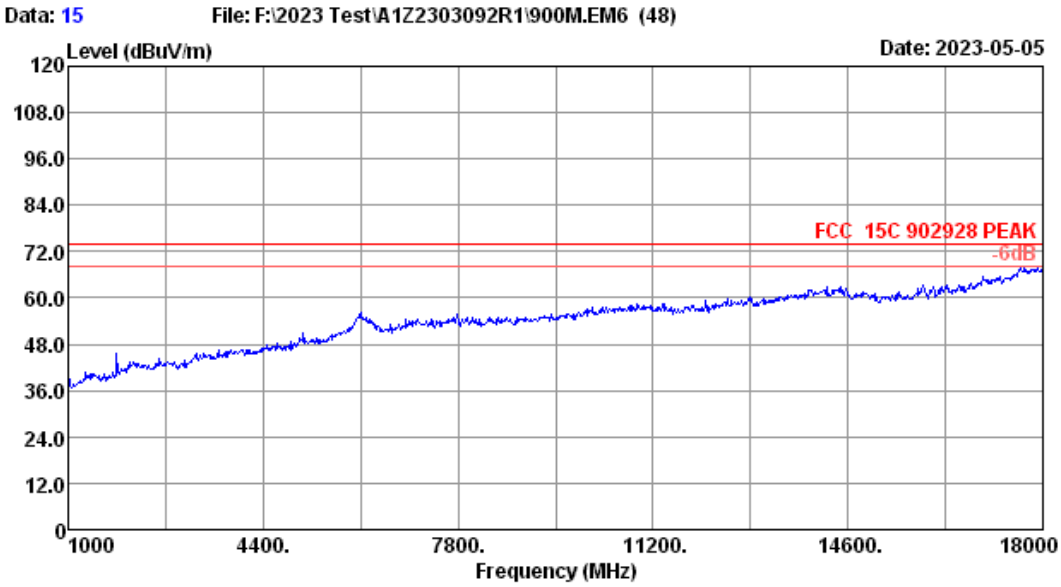

```
Site no.      : 3m Chamber                    Data no.   : 13
Dis. / Ant.   : 3m   2022 MCTD1209-3006       Ant. pol.  : VERTICAL
Limit         : FCC  15C 902928 PEAK
Env. / Ins.   : 23.2*C/52.5%                  Engineer   : nier
Test Mode     : FSK_3_2 927.6 MHz  TX Mode
```



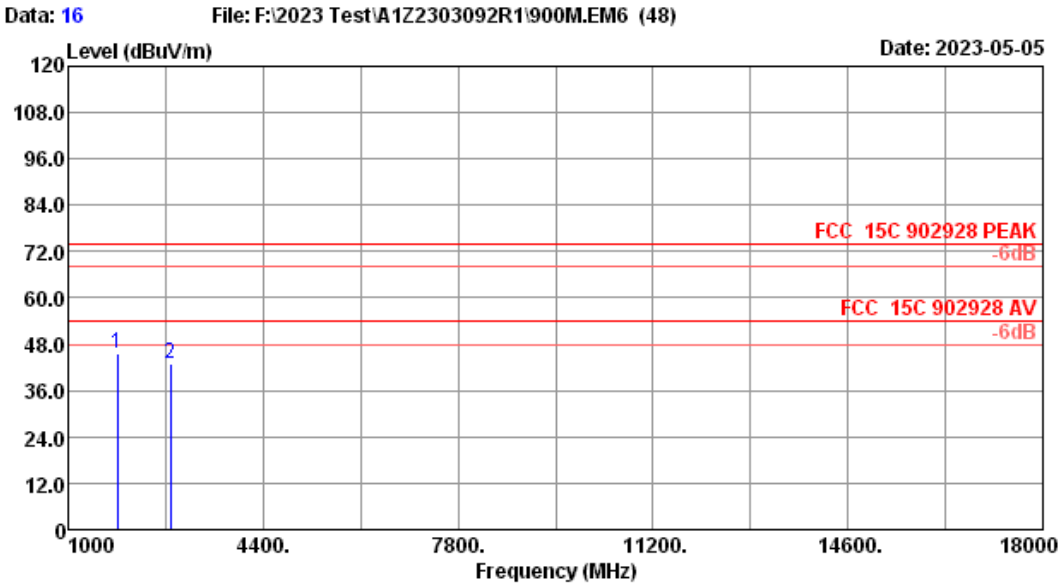
Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : FSK_3_2 927.6 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1855.20	26.00	2.01	34.55	50.04	43.50	74.00	30.50	Peak
2	2782.80	28.77	2.49	34.32	45.80	42.74	74.00	31.26	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



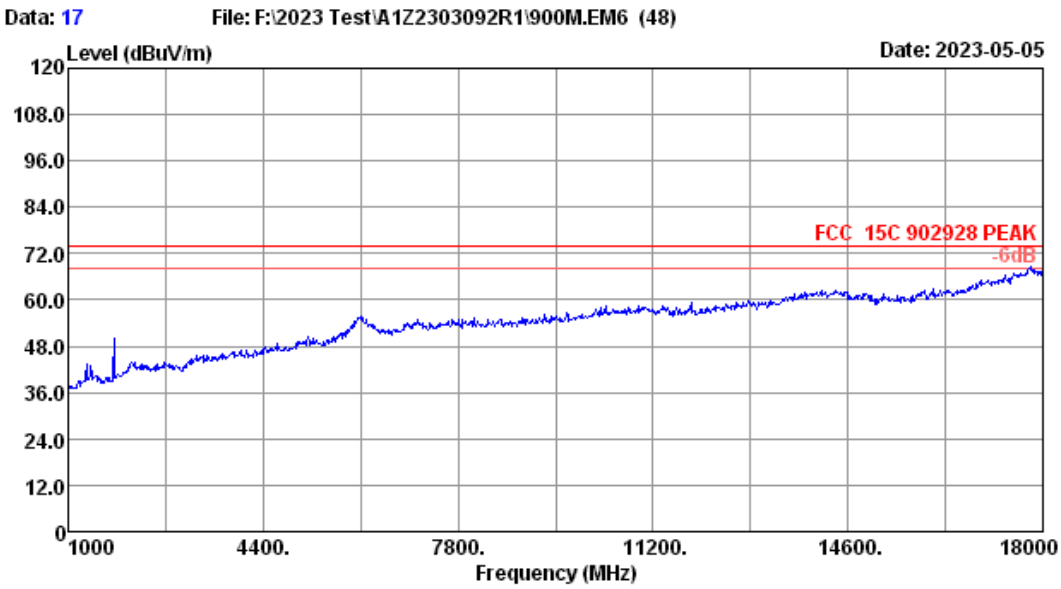

```
Site no.      : 3m Chamber                  Data no.   : 15
Dis. / Ant.   : 3m   2022 MCTD1209-3006     Ant. pol.  : HORIZONTAL
Limit         : FCC  15C 902928 PEAK
Env. / Ins.   : 23.2*C/52.5%                Engineer   : nier
Test Mode     : FSK_3_2 927.6 MHz  TX Mode
```



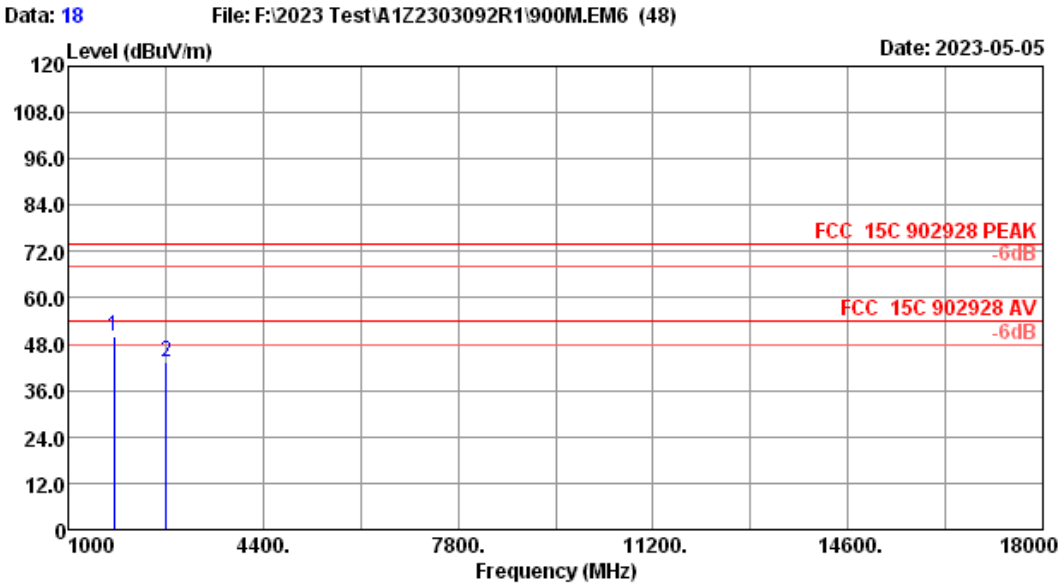
Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : FSK_3_2 927.6 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1855.20	26.00	2.01	34.55	52.23	45.69	74.00	28.31	Peak
2	2782.80	28.77	2.49	34.32	46.04	42.98	74.00	31.02	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



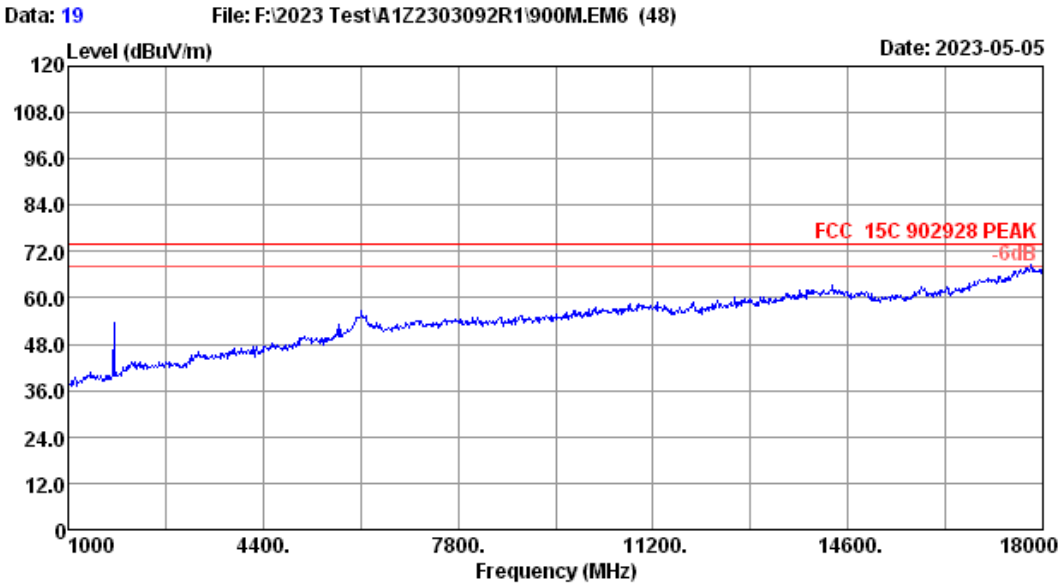
Site no.	: 3m Chamber	Data no.	: 17
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC 15C 902928 PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: OPT1_903.2 MHz TX Mode		



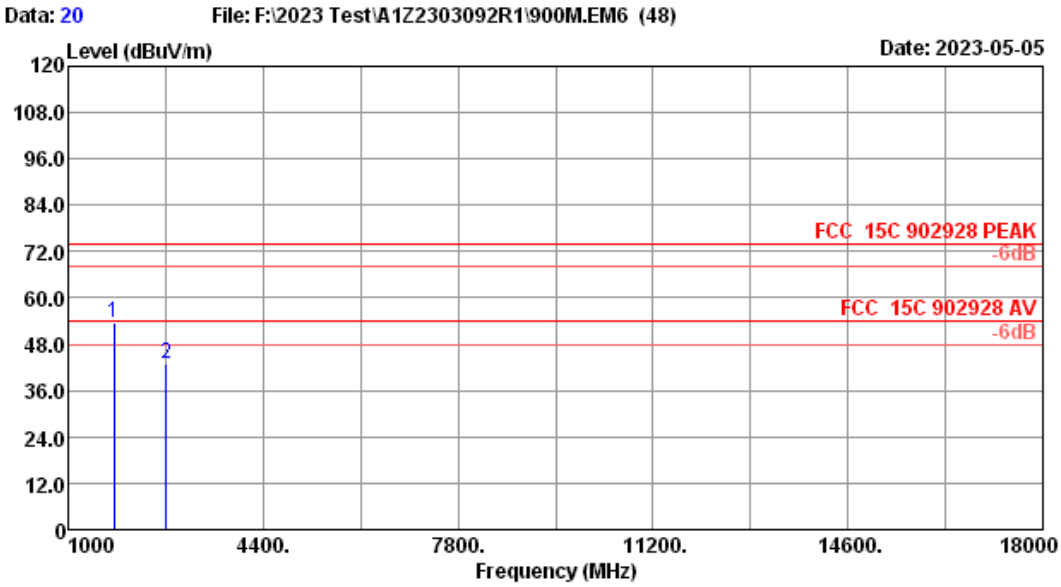
Site no. : 3m Chamber Data no. : 18
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT1_903.2 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1806.40	25.70	1.98	34.61	56.87	49.94	74.00	24.06	Peak
2	2709.60	28.77	2.46	34.33	46.52	43.42	74.00	30.58	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



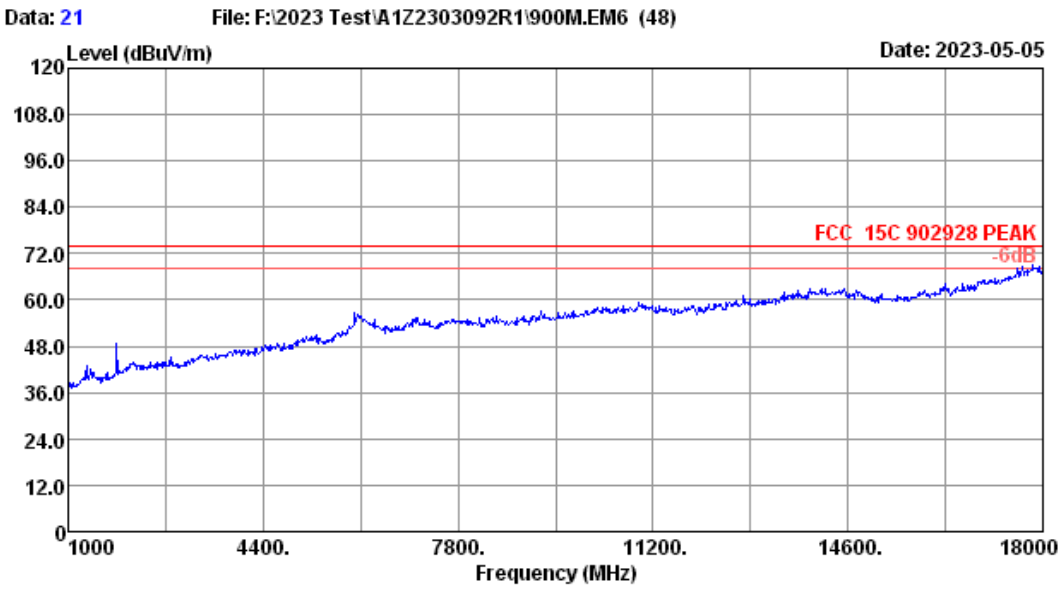

```
Site no.      : 3m Chamber                  Data no.   : 19
Dis. / Ant.   : 3m   2022 MCTD1209-3006     Ant. pol.  : HORIZONTAL
Limit         : FCC  15C 902928 PEAK
Env. / Ins.   : 23.2*C/52.5%                Engineer   : nier
Test Mode     : OPT1_903.2 MHz  TX Mode
```



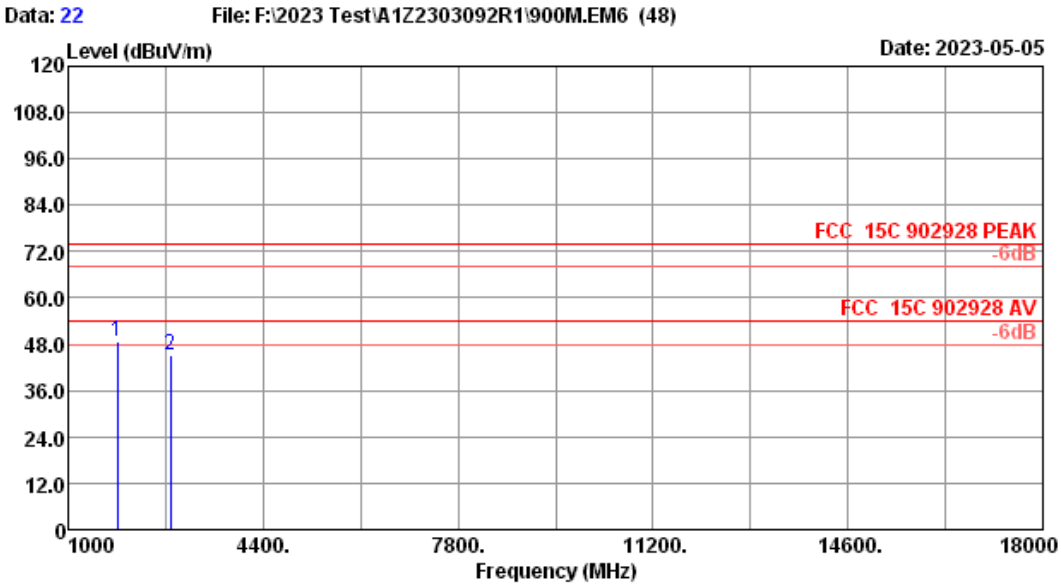
Site no. : 3m Chamber Data no. : 20
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT1_903.2 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1806.40	25.70	1.98	34.61	60.73	53.80	74.00	20.20	Peak
2	2709.60	28.77	2.46	34.33	45.85	42.75	74.00	31.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



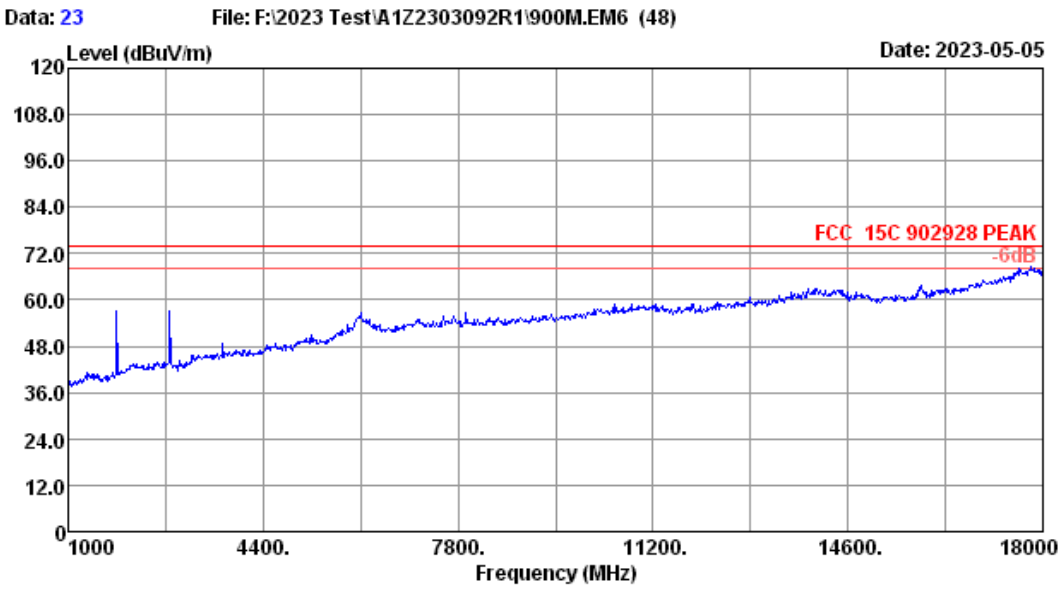

```
Site no.      : 3m Chamber                  Data no.   : 21
Dis. / Ant.   : 3m   2022 MCTD1209-3006     Ant. pol.  : VERTICAL
Limit         : FCC  15C 902928 PEAK
Env. / Ins.   : 23.2*C/52.5%                Engineer   : nier
Test Mode     : OPT1 927.2 MHz  TX Mode
```



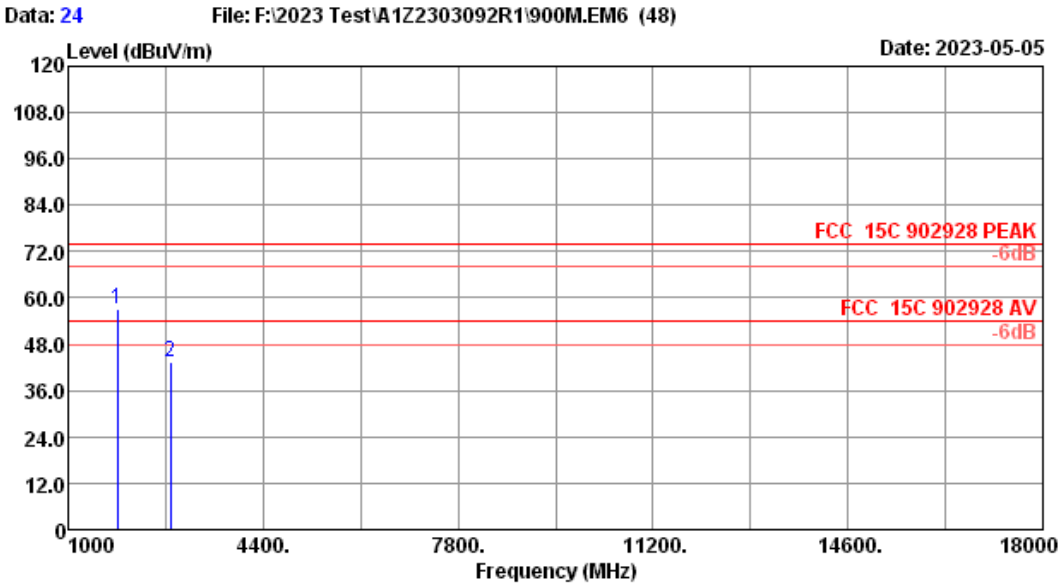
Site no. : 3m Chamber Data no. : 22
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT1 927.2 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1854.40	26.00	2.01	34.55	55.26	48.72	74.00	25.28	Peak
2	2781.60	28.77	2.49	34.32	48.03	44.97	74.00	29.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



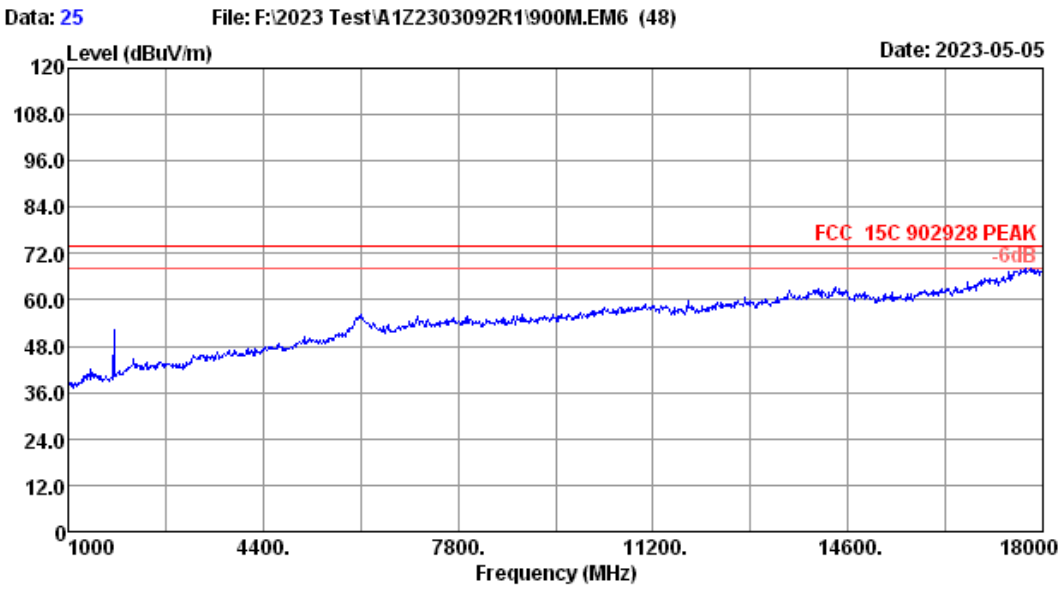
Site no. : 3m Chamber
Data no. : 23
Dis. / Ant. : 3m 2022 MCTD1209-3006
Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5%
Engineer : nier
Test Mode : OPT1 927.2 MHz TX Mode



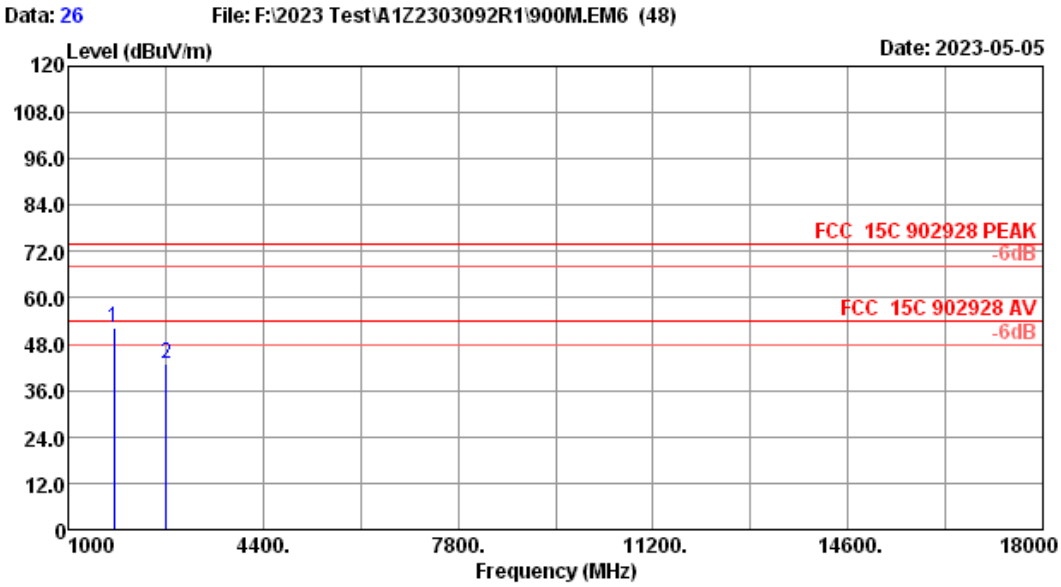
Site no. : 3m Chamber
Data no. : 24
Dis. / Ant. : 3m 2022 MCTD1209-3006
Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5%
Engineer : nier
Test Mode : OPT1 927.2 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1854.40	26.00	2.01	34.55	63.85	57.31	74.00	16.69	Peak
2	2781.60	28.77	2.49	34.32	46.41	43.35	74.00	30.65	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



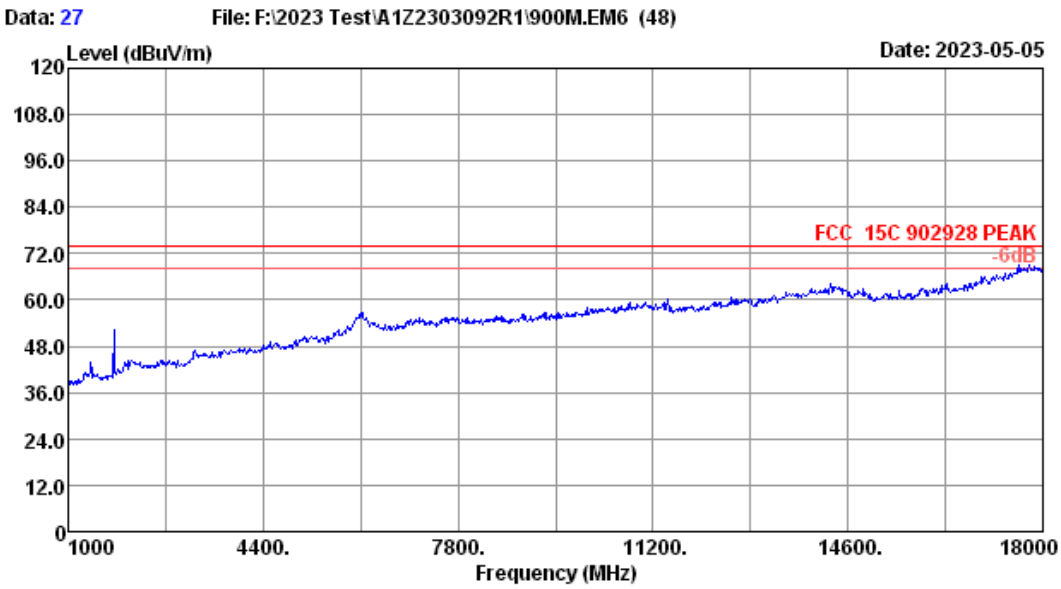
Site no.	: 3m Chamber	Data no.	: 25
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC 15C 902928 PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: OPT2_902.8 MHz TX Mode		



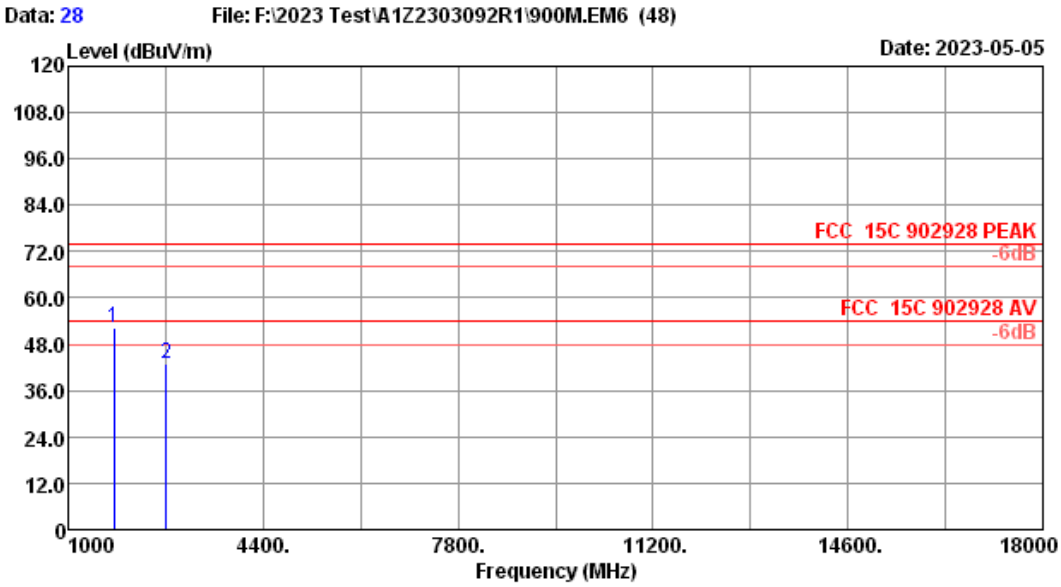
Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT2_902.8 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1805.60	25.70	1.98	34.61	59.24	52.31	74.00	21.69	Peak
2	2708.40	28.70	2.45	34.33	46.23	43.05	74.00	30.95	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



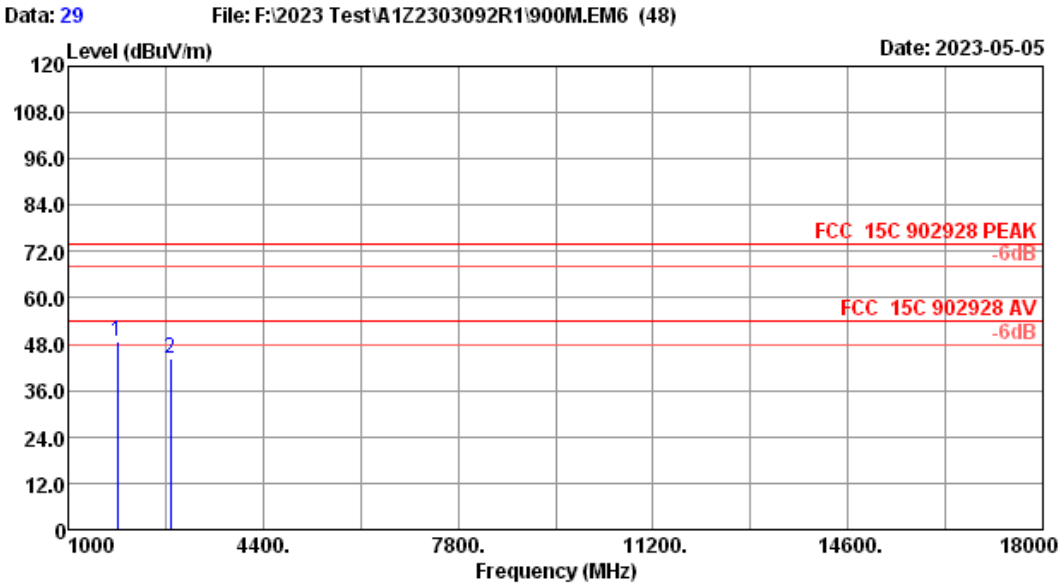
Site no.	: 3m Chamber	Data no.	: 27
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC 15C 902928 PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: OPT2_902.8 MHz TX Mode		



Site no. : 3m Chamber Data no. : 28
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT2_902.8 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1805.60	25.70	1.98	34.61	59.25	52.32	74.00	21.68	Peak
2	2708.40	28.70	2.45	34.33	46.26	43.08	74.00	30.92	Peak

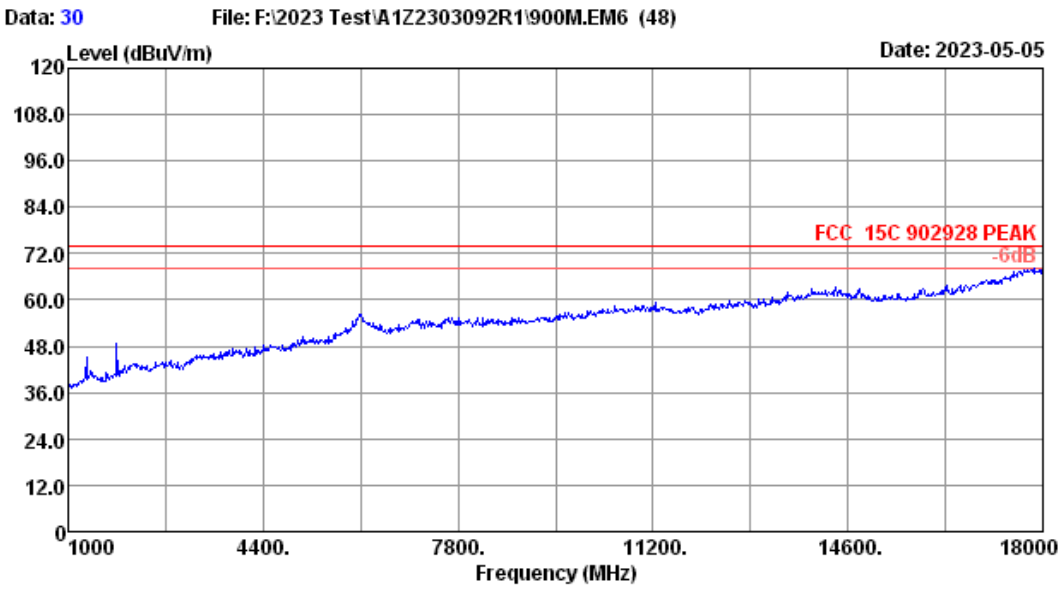
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



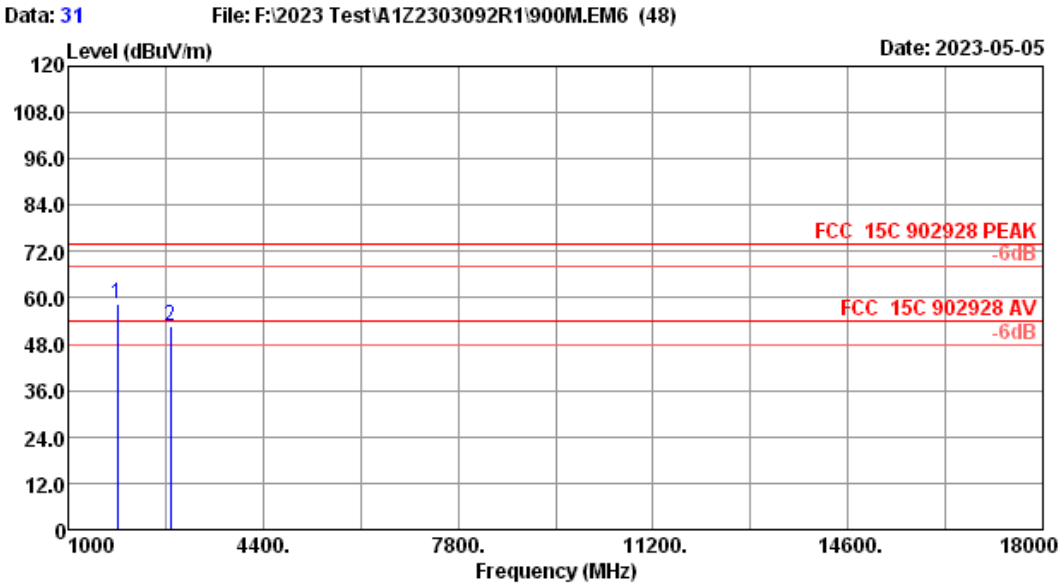
Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT2_927.6 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1855.20	26.00	2.01	34.55	55.45	48.91	74.00	25.09	Peak
2	2782.80	28.77	2.49	34.32	47.25	44.19	74.00	29.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



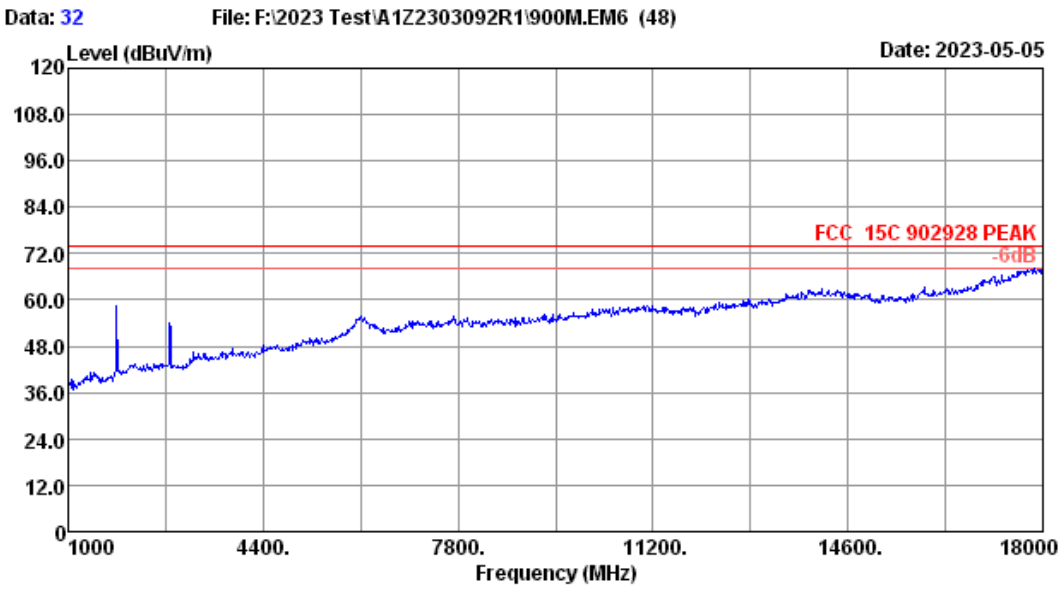
Site no.	: 3m Chamber	Data no.	: 30
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC 15C 902928 PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: OPT2_927.6 MHz TX Mode		



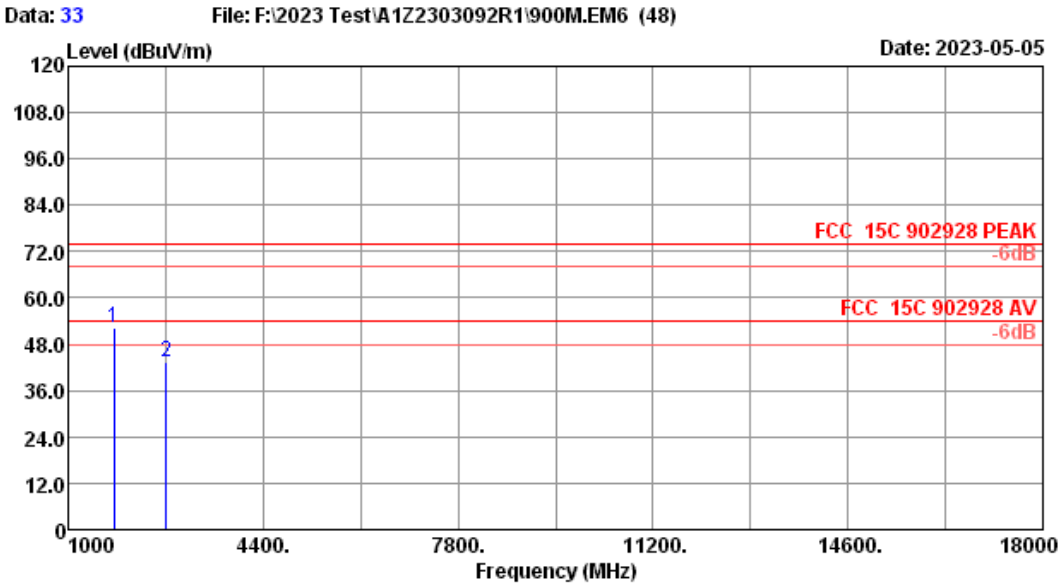
Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT2_927.6 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1855.20	26.00	2.01	34.55	64.84	58.30	74.00	15.70	Peak
2	2782.80	28.77	2.49	34.32	55.74	52.68	74.00	21.32	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



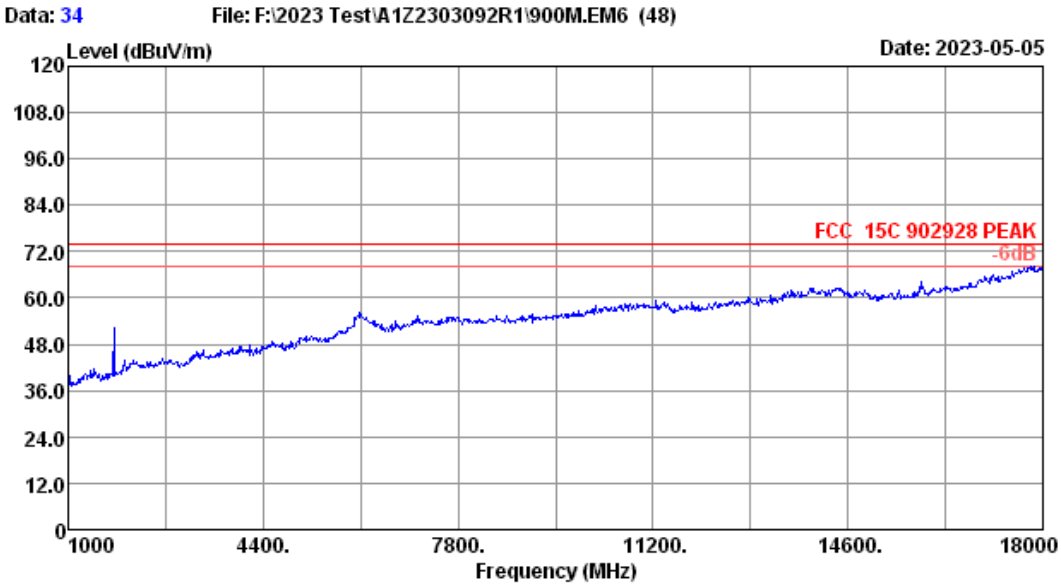
Site no. : 3m Chamber
Data no. : 32
Dis. / Ant. : 3m 2022 MCTD1209-3006
Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5%
Engineer : nier
Test Mode : OPT2_927.6 MHz TX Mode



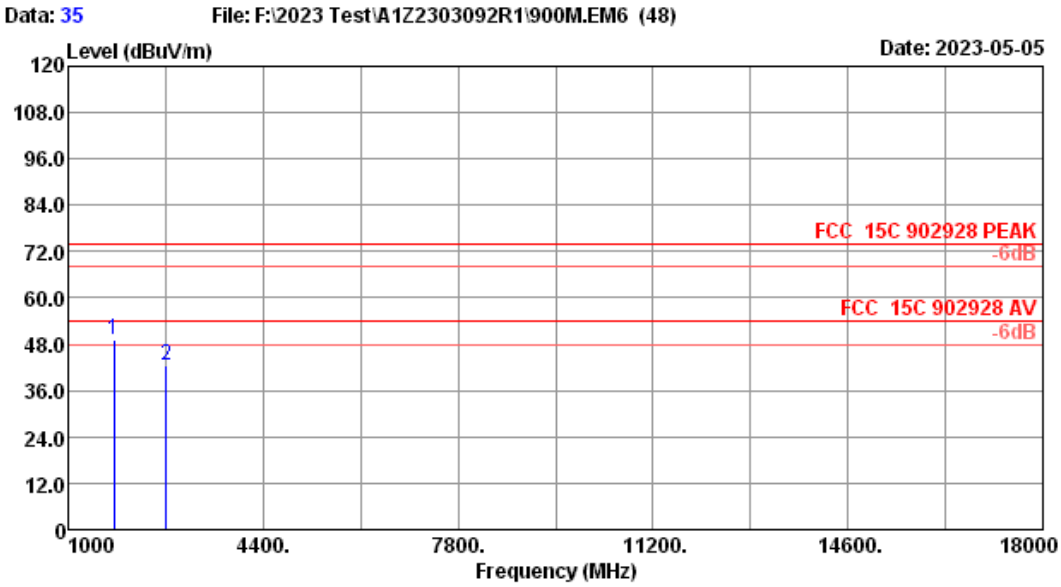
Site no. : 3m Chamber Data no. : 33
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT3_902.4 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1804.80	25.70	1.98	34.61	59.20	52.27	74.00	21.73	Peak
2	2707.20	28.70	2.45	34.33	46.62	43.44	74.00	30.56	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



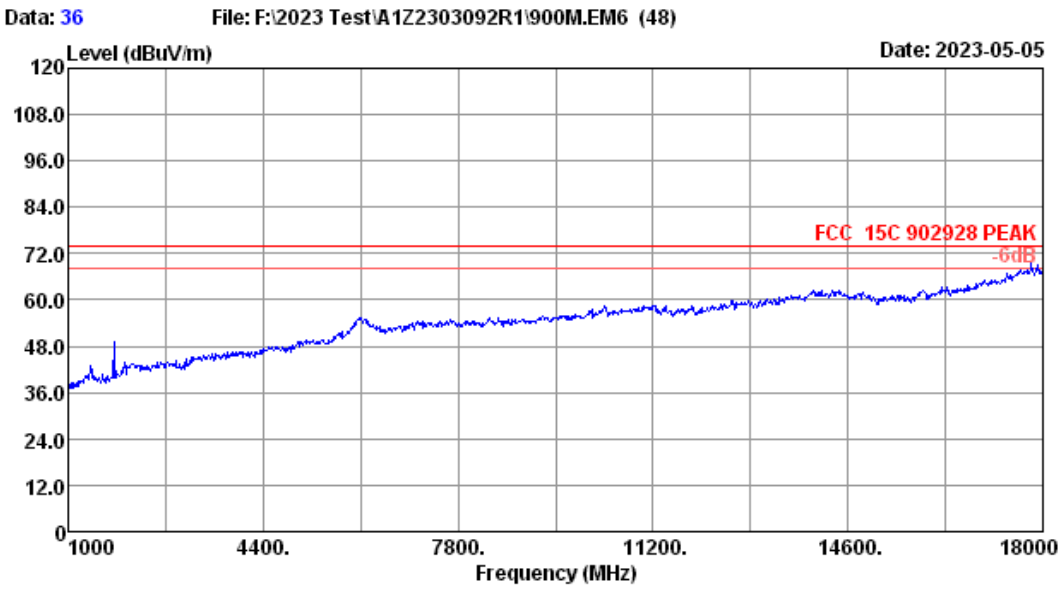
Site no.	: 3m Chamber	Data no.	: 34
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC 15C 902928 PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: OPT3_902.4 MHz TX Mode		



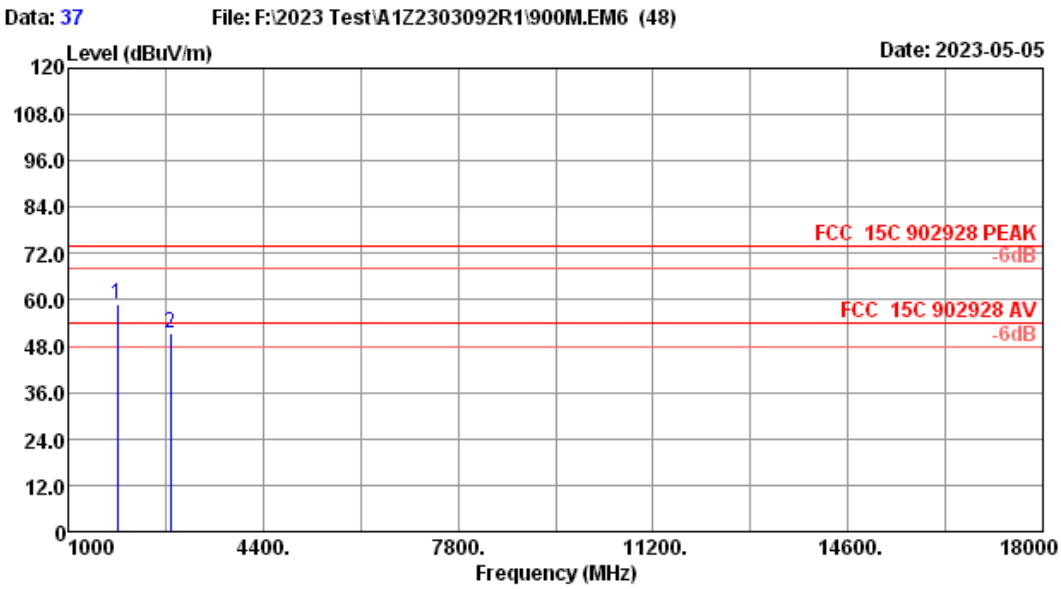
Site no. : 3m Chamber Data no. : 35
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT3_902.4 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1804.80	25.70	1.98	34.61	55.97	49.04	74.00	24.96	Peak
2	2707.20	28.70	2.45	34.33	45.88	42.70	74.00	31.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



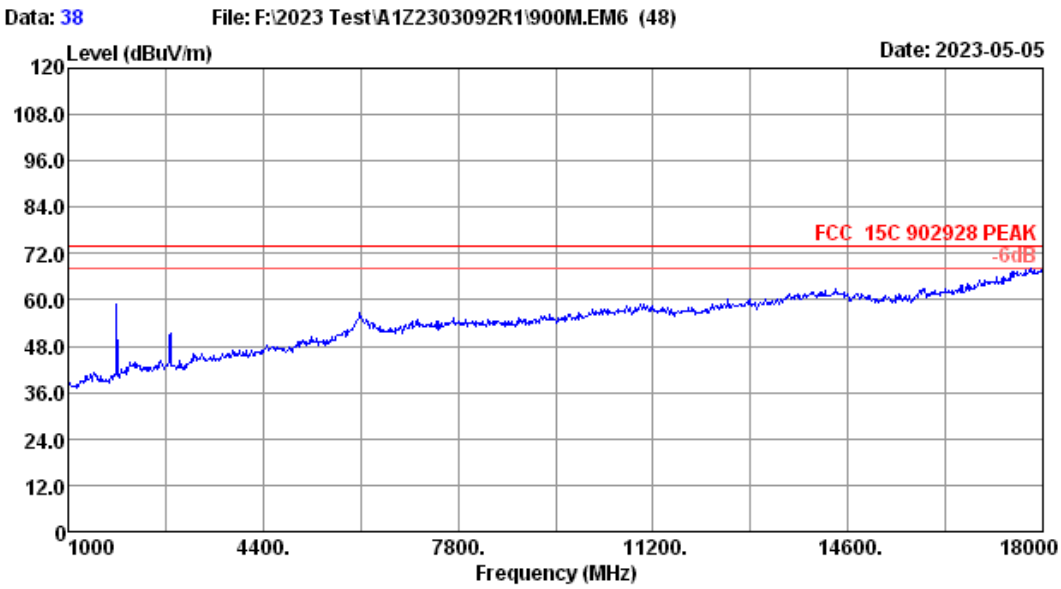
Site no.	: 3m Chamber	Data no.	: 36
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC 15C 902928 PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: OPT3_902.4 MHz TX Mode		



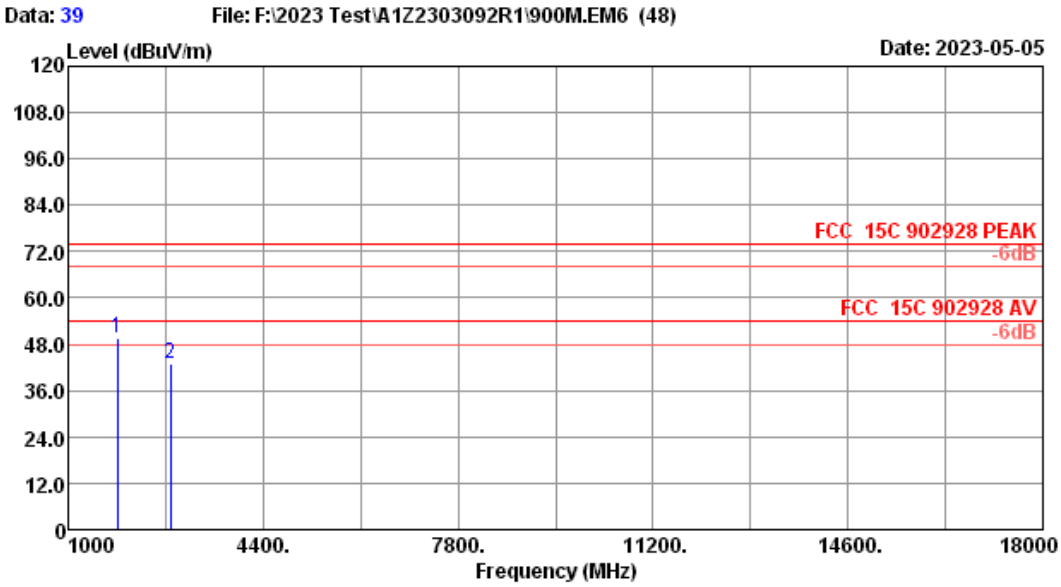
Site no. : 3m Chamber Data no. : 37
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT3_927.6 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1855.20	26.00	2.01	34.55	65.65	59.11	74.00	14.89	Peak
2	2782.80	28.77	2.49	34.32	54.35	51.29	74.00	22.71	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



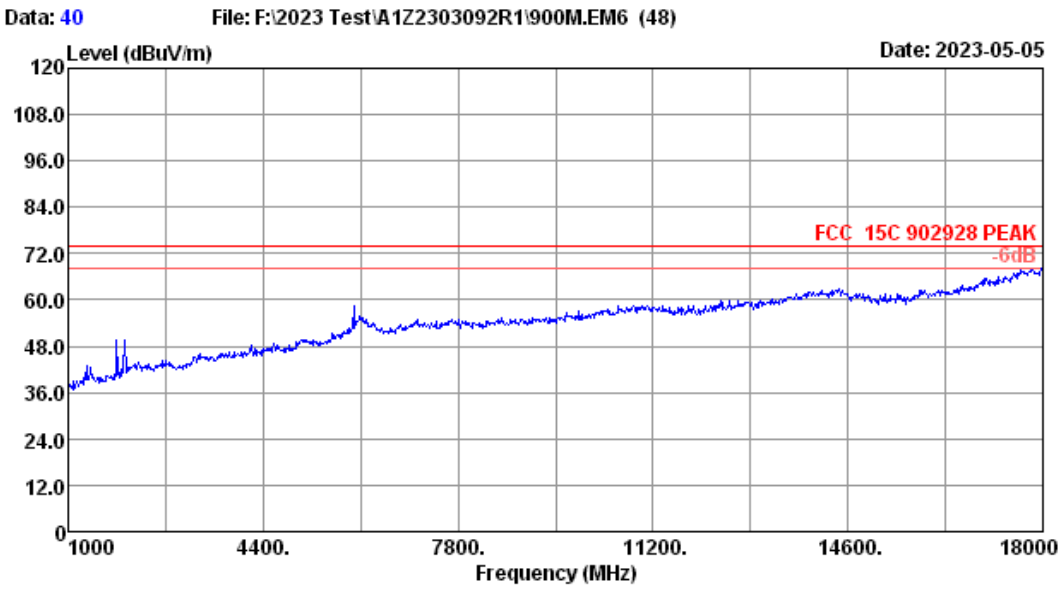
Site no.	: 3m Chamber	Data no.	: 38
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC 15C 902928 PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: OPT3_927.6 MHz TX Mode		



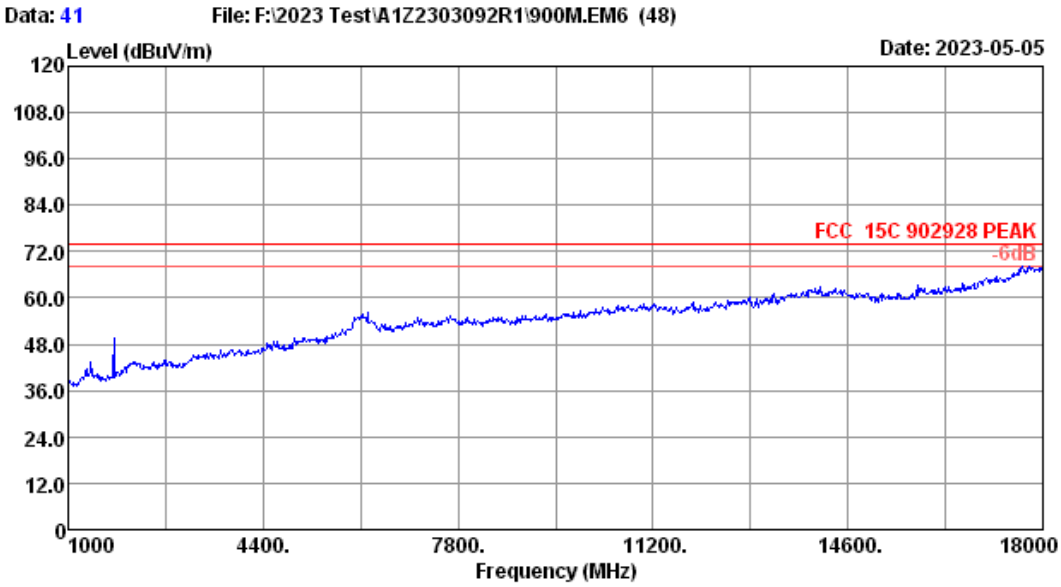
Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT3_927.6 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1855.20	26.00	2.01	34.55	56.23	49.69	74.00	24.31	Peak
2	2782.80	28.77	2.49	34.32	46.08	43.02	74.00	30.98	Peak

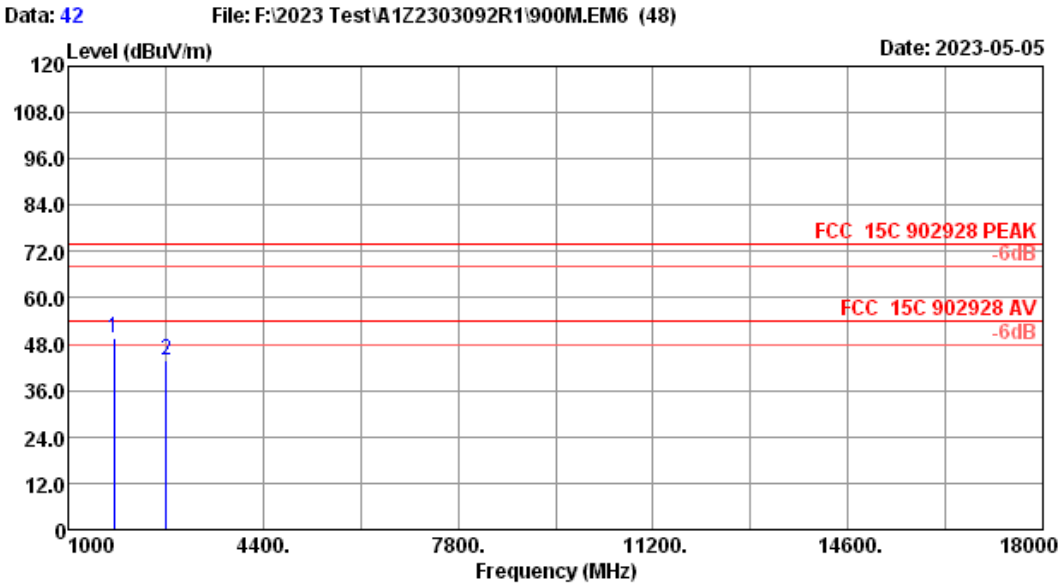
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 40
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC 15C 902928 PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: OPT3_927.6 MHz TX Mode		



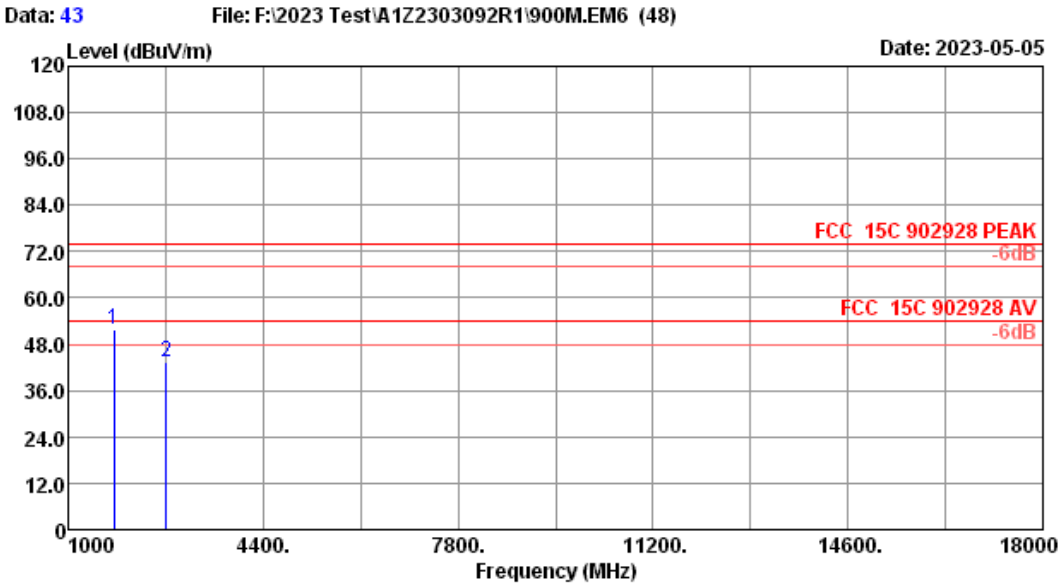
Site no.	: 3m Chamber	Data no.	: 41
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC 15C 902928 PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: OPT4_902.2 MHz TX Mode		



Site no. : 3m Chamber Data no. : 42
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT4_902.2 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1804.40	25.70	1.98	34.61	56.41	49.48	74.00	24.52	Peak
2	2706.60	28.70	2.45	34.33	46.98	43.80	74.00	30.20	Peak

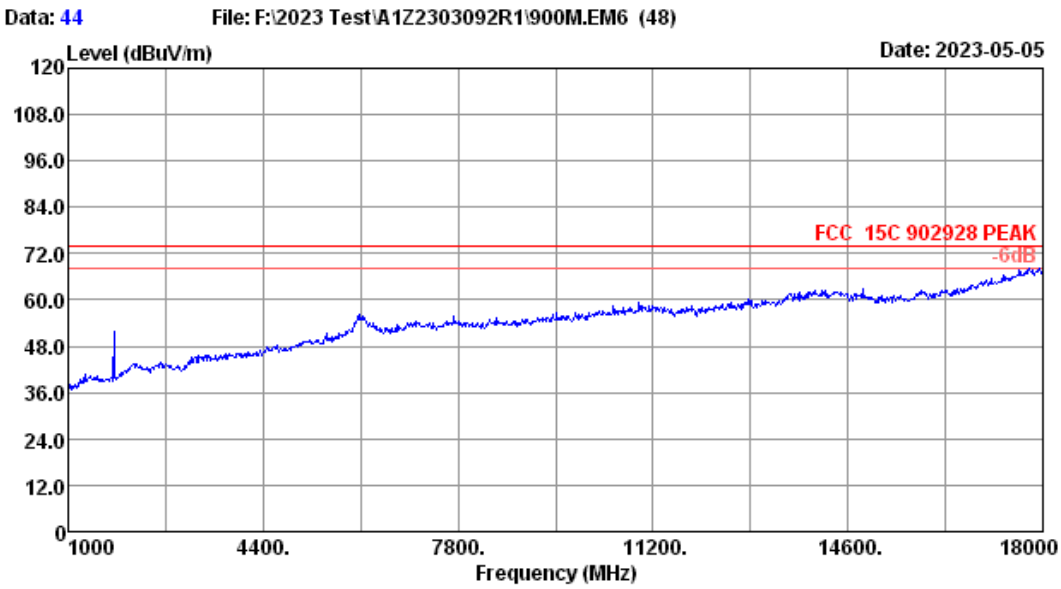
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



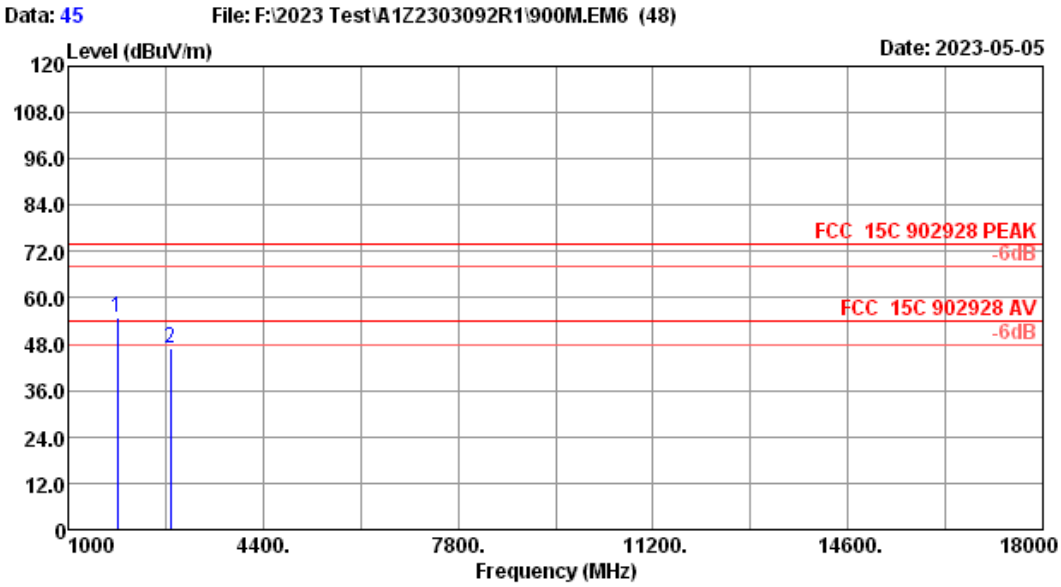
Site no. : 3m Chamber Data no. : 43
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT4_902.2 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1804.40	25.70	1.98	34.61	58.81	51.88	74.00	22.12	Peak
2	2706.60	28.70	2.45	34.33	46.56	43.38	74.00	30.62	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



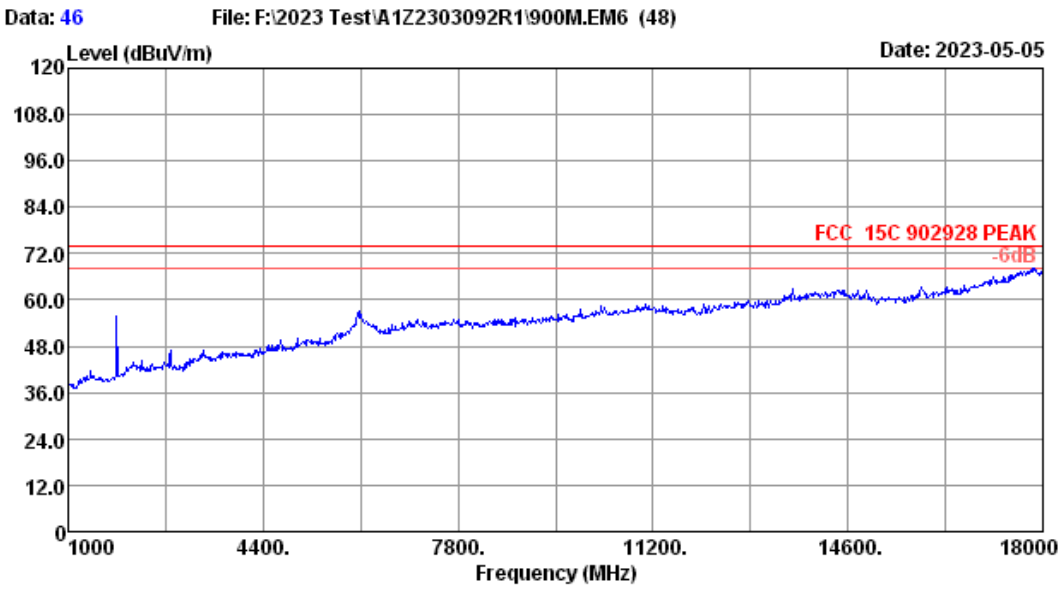
Site no.	: 3m Chamber	Data no.	: 44
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC 15C 902928 PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: OPT4_902.2 MHz TX Mode		



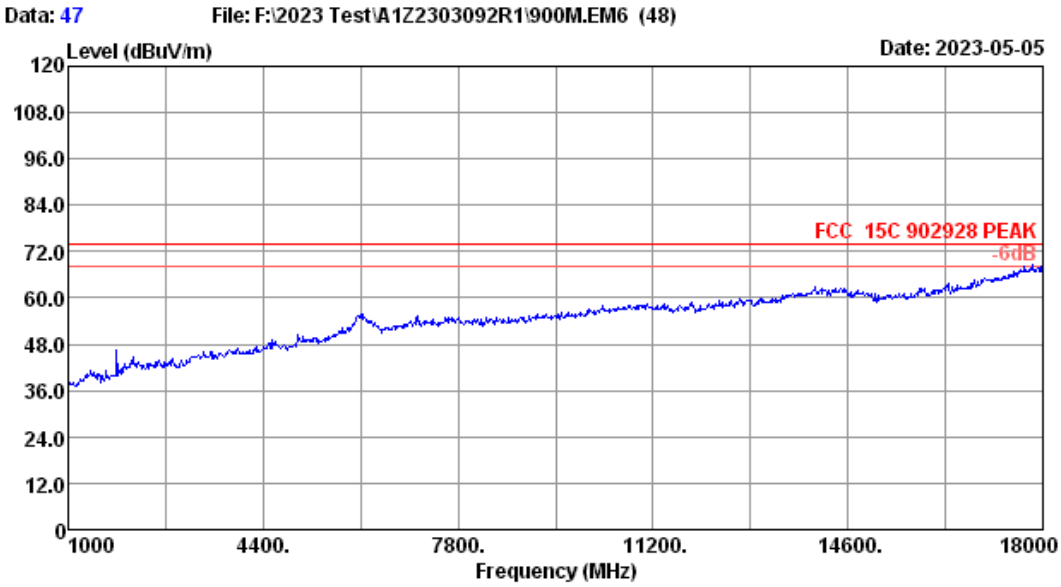
Site no. : 3m Chamber Data no. : 45
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT4_927.8 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1855.60	26.00	2.01	34.55	61.29	54.75	74.00	19.25	Peak
2	2783.40	28.77	2.49	34.32	49.94	46.88	74.00	27.12	Peak

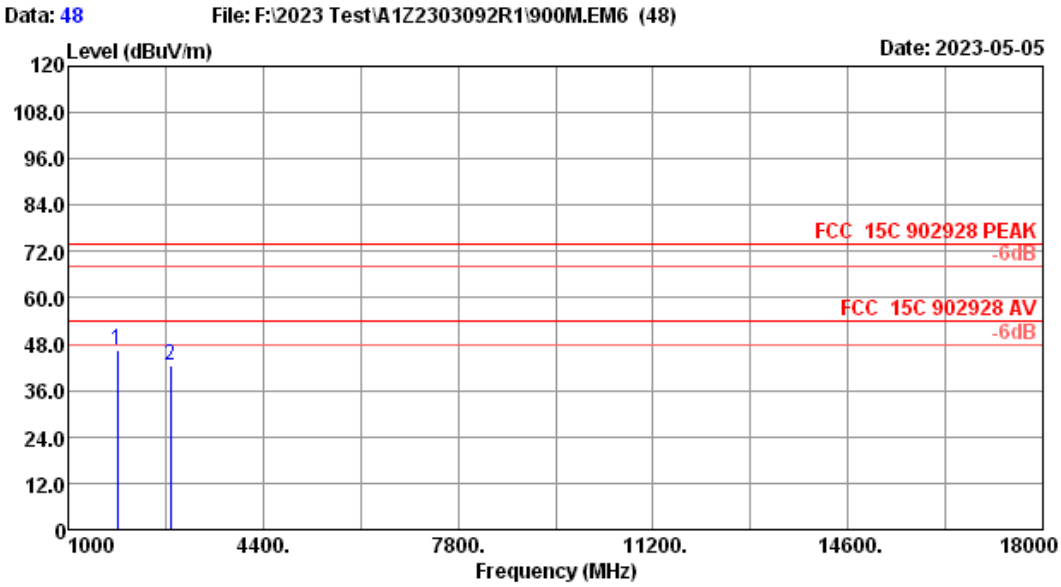
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 46
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC 15C 902928 PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: OPT4_927.8 MHz TX Mode		



Site no.	: 3m Chamber	Data no.	: 47
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC 15C 902928 PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: OPT4_927.8 MHz TX Mode		



Site no. : 3m Chamber Data no. : 48
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15C 902928 PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : OPT4_927.8 MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1855.60	26.00	2.01	34.55	52.91	46.37	74.00	27.63	Peak
2	2783.40	28.77	2.49	34.32	45.76	42.70	74.00	31.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

5. 20 DB BANDWIDTH TEST

5.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52220804	Oct.08,22	1Year
2.	Attenuator (20dB)	Agilent	8491B	MY39269201	Oct.09,22	1 Year
3.	RF Cable	eastsheep	141-SMA-JJ-1000	NO.4	Jul.01,22	1 Year

5.2. Limit

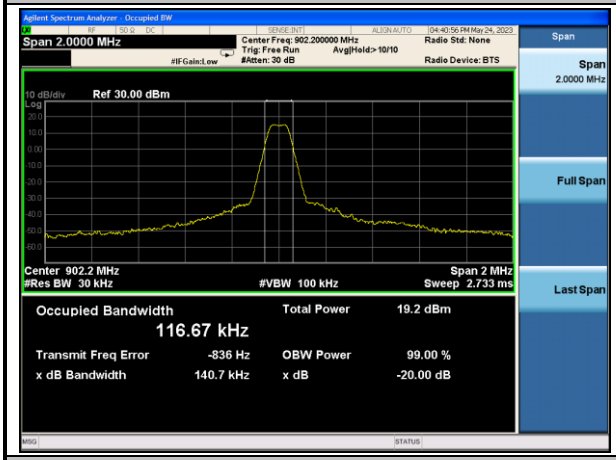
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

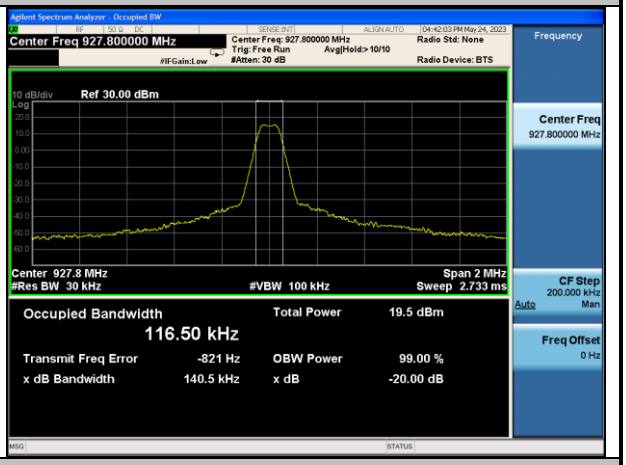
5.3. Test Results

EUT: Sub-GHz wireless communication board		
M/N: QCIOT-000-CWXPOCZ		
Test date: 2023-05-24	Pressure: 102.3±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Jerry	Test site: RF site	Temperature:25.5±0.6 ℃

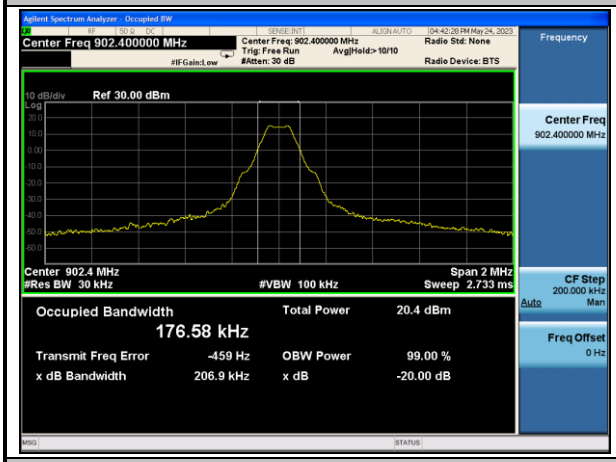
Test Mode	CH	-20dBBandwidth (KHz)	Limit (KHz)
FSK 1b	902.2	116.67	N/A
	927.8	116.50	
FSK 3	902.4	176.58	
	927.6	176.24	N/A
OFDM OPT1	903.2	1094.5	
	927.2	1102.6	
OFDM OPT2	902.8	581.75	N/A
	927.6	583.20	
OFDM OPT3	902.4	308.98	
	927.6	312.57	N/A
OFDM OPT4	902.2	196.14	
	927.8	196.41	
Conclusion: PASS			

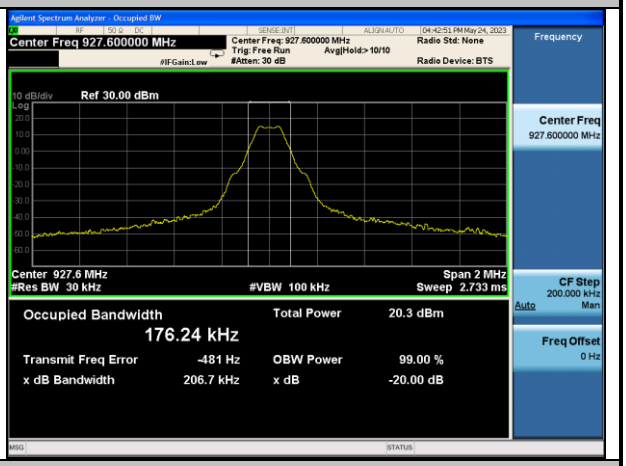
FSK 1b



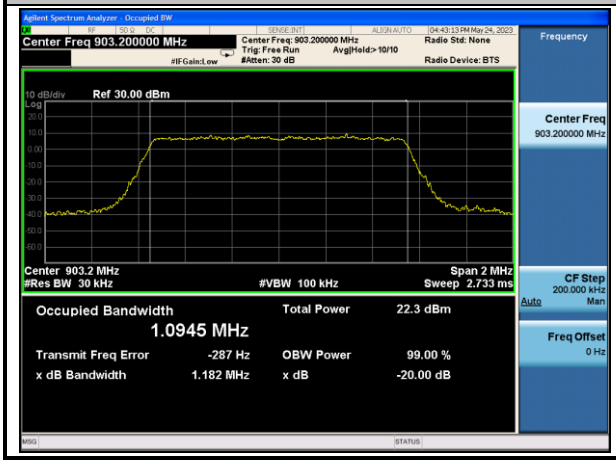


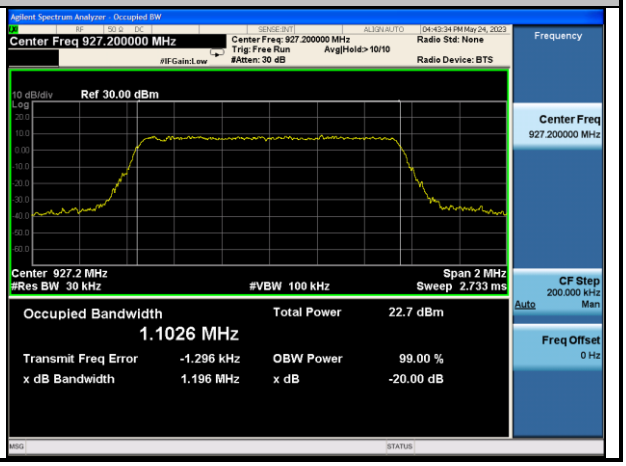
FSK 3



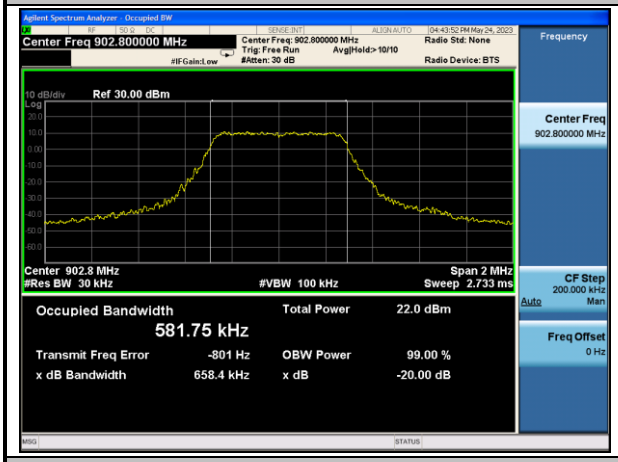


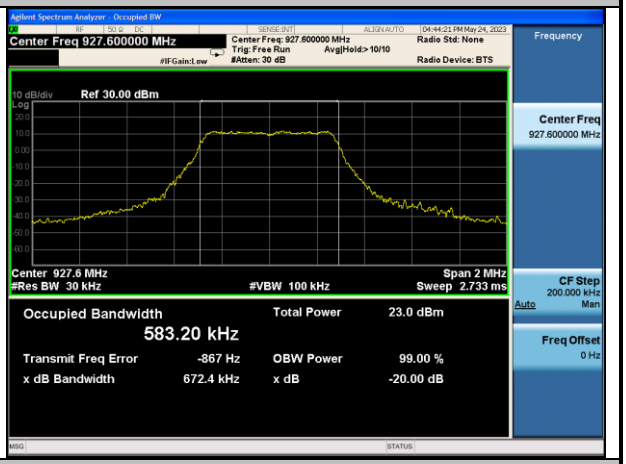
OFDM OPT1



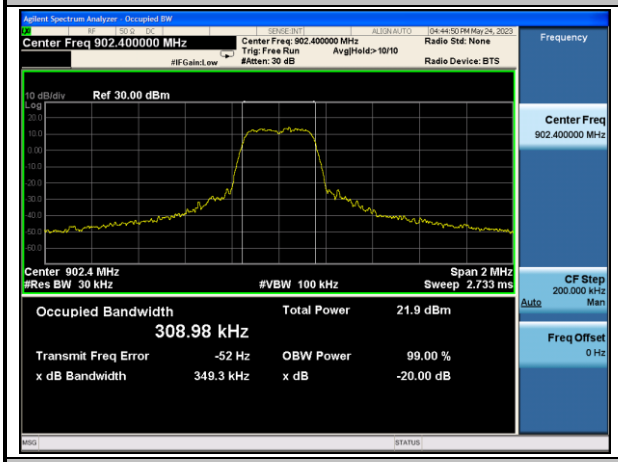


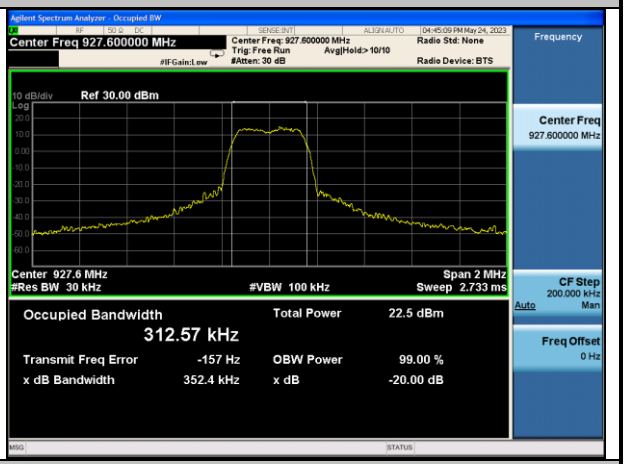
OFDM OPT2



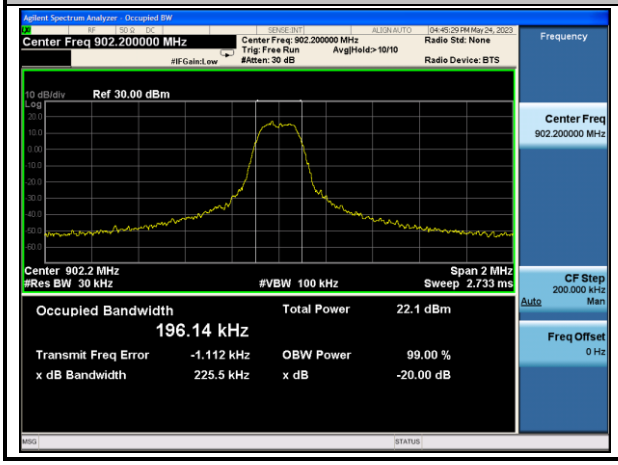


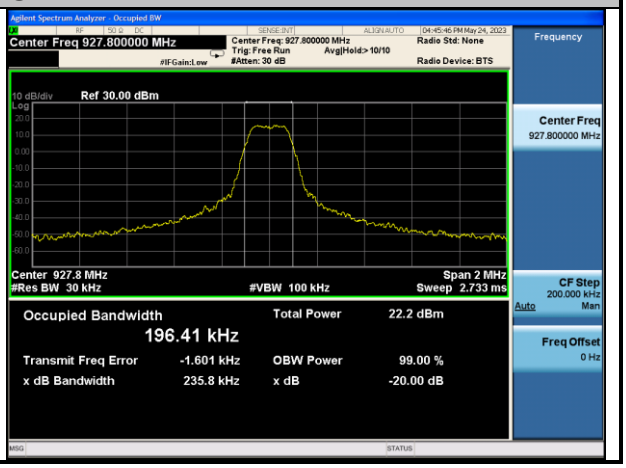
OFDM OPT3





OFDM OPT4





6. ANTENNA REQUIREMENT

RESULT : PASS

Test Date : Apr.23~May.11, 2023

Test standard : FCC Part 15.203

Limit : An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device

According to the manufacturer declared, the EUT has an TRF antenna, the directional gain of antenna is 0.75dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply the provision.

7. DEVIATION TO TEST SPECIFICATIONS

[NONE]