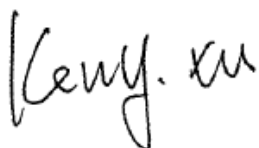


TEST REPORT

Application No.: SZCR2603001022AT
Applicant: DT Research, Inc.
Address of Applicant: 3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan
Manufacturer: DT Research, Inc.
Address of Manufacturer: 2000 Concourse Drive, San Jose, CA 95131, USA
Factory: DT Research, Inc. Taiwan Branch
Address of Factory: 6F., No.36 Wuquan 7th Rd., Wugu Dist. New Taipei City 248 Taiwan
Equipment Under Test (EUT):
EUT Name: Rugged Tablet
Model No.: DT340XXXX(X=0-9, A-Z, - or null, or ., or /), DT340TA ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: 
FCC ID: YE3600-BE200NG
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2026-03-17
Date of Test: 2026-03-26 to 2026-05-01
Date of Issue: 2026-05-01

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.


 Keny Xu
 EMC Laboratory Manager



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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300102203

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-05-01		Original

Authorized for issue by:				
		Edison Li		
		Edison Li/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Remark:

Model No.: DT340XXXX(X=0-9, A-Z, - or null, or ., or /), DT340TA

Only the model DT340TA was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model No., appearance and color.

This report is prepared for FCC class II permissive change to install the granted module(FCC ID: YE3600-BE200NG, Granted on 05/23/2025) into a host product and also change the antenna gains.

Therefore in this report Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model DT340TA and shown the data in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Medical AC Adapter1 Model:EM11011M-190 Input: AC 100-240V, 50/60Hz, 2.0-1.0A Output: DC 19.0V, 6.31A, 120.0W AC Adapter2 Model:EA12321N-1901 Input: AC 100-240V, 50/60Hz, 3.5A Output: DC 19.0V, 12.1A, 230.0W Rechargeable lithium-Ion polymer Battery1 Model: ACC-006-60K(3ICP9/36/115) Rated Capacity: 5400mAh Voltage: 11.4VDC Watt-Hour: 61.56Wh Max Charge Voltage:13.05V Rechargeable lithium-Ion polymer Battery2 Model: ACC-006-60K(3ICP9/36/115) Rated Capacity: 5400mAh Voltage: 11.4VDC Watt-Hour: 61.56Wh Max Charge Voltage:13.05V
Cable(s):	AC cable:175cm with a ferrite core
Bluetooth Version:	V5.4
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data rate:	1Mbps, 2Mbps
Antenna Type:	PIFA Antenna
Antenna Gain:	2.2dBi

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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	



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SZEMC-TRF-01 Rev. A/2

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4.4 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Radio Spectrum Technical Requirement

5.1 Antenna Requirement

5.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

5.1.2 Conclusion

Standard Requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna connector is a IPEX type that comply with Part15.203, the best case gain of the antenna1 is 2.2dBi.

Antenna location: Refer to internal photo.



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6 Radio Spectrum Matter Test Results

6.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2020) Section 6.2

Test Engineer: Mason Wu

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

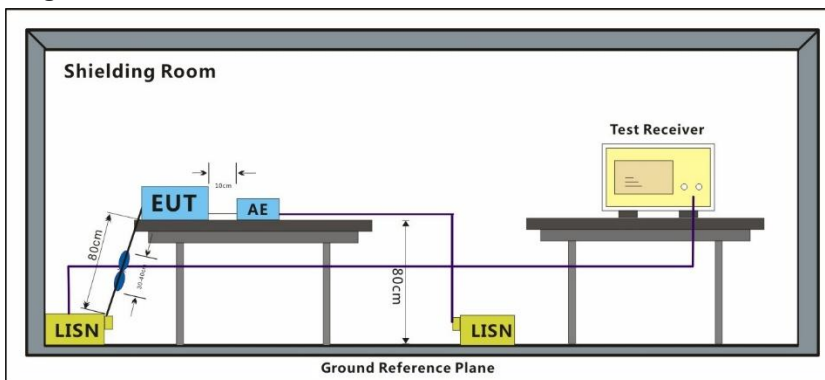
Humidity: 42.5 % RH

Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	12	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	14	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

6.1.3 Test Setup Diagram



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6.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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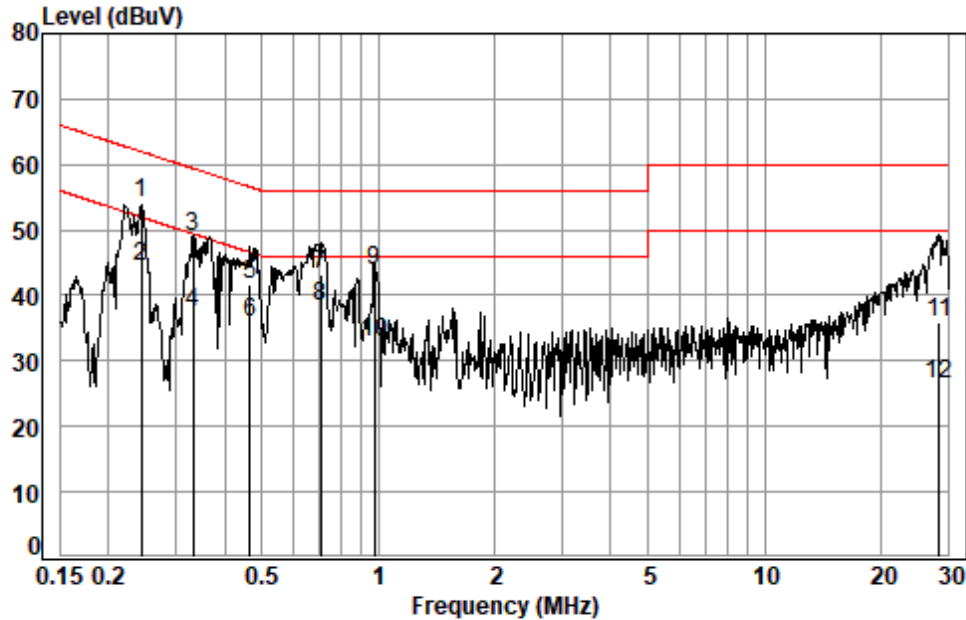
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300102203

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Test Mode: 12; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 01022AT
Test mode: 12

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.2442	0.07	9.63	44.36	54.06	61.95	-7.89	QP
2 *	0.2442	0.07	9.63	34.73	44.43	51.95	-7.52	Average
3	0.3321	0.08	9.63	39.32	49.03	59.40	-10.37	QP
4	0.3321	0.08	9.63	27.67	37.38	49.40	-12.02	Average
5	0.4661	0.09	9.64	31.93	41.66	56.58	-14.92	QP
6	0.4661	0.09	9.64	26.09	35.82	46.58	-10.76	Average
7	0.7084	0.10	9.65	33.35	43.10	56.00	-12.90	QP
8	0.7084	0.10	9.65	28.57	38.32	46.00	-7.68	Average
9	0.9787	0.11	9.67	33.99	43.77	56.00	-12.23	QP
10	0.9787	0.11	9.67	23.15	32.93	46.00	-13.07	Average
11	28.3015	0.26	13.88	21.64	35.78	60.00	-24.22	QP
12	28.3015	0.26	13.88	12.36	26.50	50.00	-23.50	Average



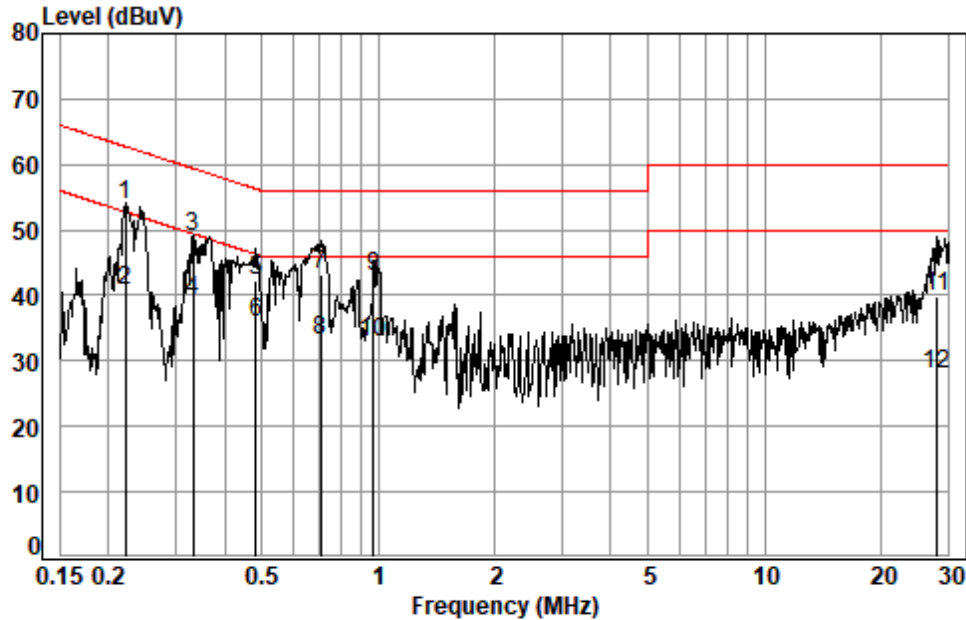
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Calibration Laboratory

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Test Mode: 12; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 01022AT
Test mode: 12

		Cable	LISN	Read	Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1 *	0.2220	0.07	9.66	44.24	53.97	62.74	-8.77 QP
2	0.2220	0.07	9.66	30.97	40.70	52.74	-12.04 Average
3	0.3321	0.08	9.64	39.33	49.05	59.40	-10.35 QP
4 *	0.3321	0.08	9.64	29.66	39.38	49.40	-10.02 Average
5	0.4812	0.09	9.63	32.66	42.38	56.32	-13.94 QP
6	0.4812	0.09	9.63	26.15	35.87	46.32	-10.45 Average
7	0.7084	0.10	9.64	33.36	43.10	56.00	-12.90 QP
8	0.7084	0.10	9.64	23.52	33.26	46.00	-12.74 Average
9	0.9735	0.11	9.66	33.01	42.78	56.00	-13.22 QP
10	0.9735	0.11	9.66	22.95	32.72	46.00	-13.28 Average
11	28.0032	0.26	13.78	25.83	39.87	60.00	-20.13 QP
12	28.0032	0.26	13.78	13.92	27.96	50.00	-22.04 Average



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300102203

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6.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2020) Section 6.10.5 & 11.12
 Measurement Distance: 3m
 Test Engineer: Logic Wang
 Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	11	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	12	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	13	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	14	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

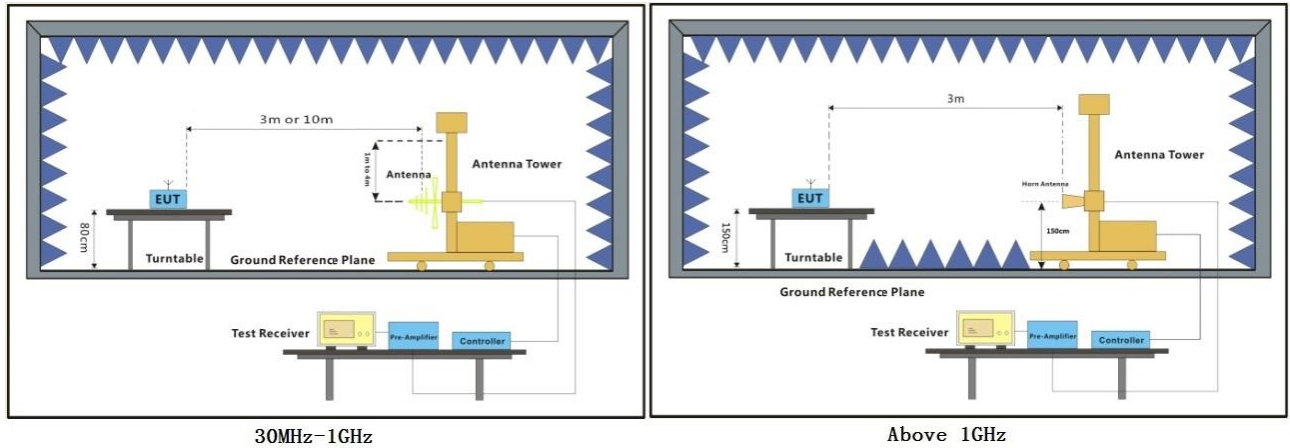


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6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



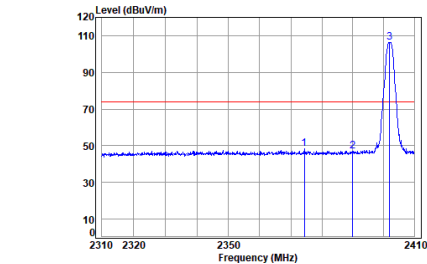
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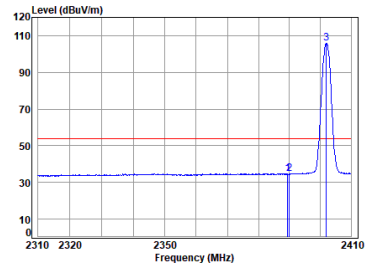
BLE_1M_TX_CH_00_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2402 Band edge
BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2374.316	16.11	29.10	32.79	35.94	48.36	74.00	-25.64	Peak	0.00
2	2390.000	16.13	29.10	32.78	34.34	46.79	74.00	-27.21	Peak	0.00
3 p	2402.000	16.15	29.09	32.77	93.69	106.16	74.00	32.16	Peak	0.00

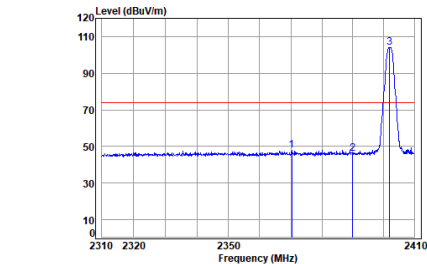
BLE_1M_TX_CH_00_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2402 Band edge
BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.457	16.13	29.10	32.78	22.35	34.00	54.00	-19.20	Average	0.00
2	2390.000	16.13	29.10	32.78	22.13	34.58	54.00	-19.42	Average	0.00
3 q	2402.000	16.15	29.09	32.77	93.28	105.75	54.00	51.75	Average	0.00

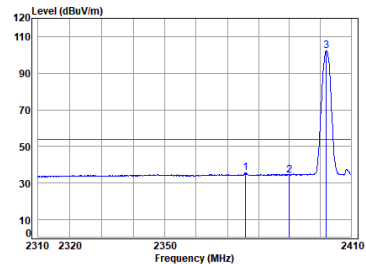
BLE_1M_TX_CH_00_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2402 Band edge
BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2370.294	16.10	29.10	32.79	35.68	48.09	74.00	-25.91	Peak	0.00
2	2390.000	16.13	29.10	32.78	33.54	45.99	74.00	-28.01	Peak	0.00
3 p	2402.000	16.15	29.09	32.77	91.55	104.02	74.00	30.02	Peak	0.00

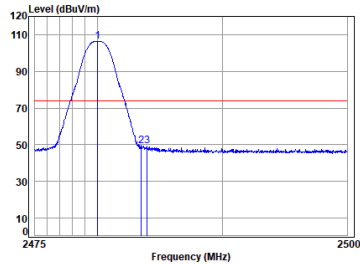
BLE_1M_TX_CH_00_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2402 Band edge
BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2375.825	16.11	29.10	32.79	23.15	35.57	54.00	-18.43	Average	0.00
2	2390.000	16.13	29.10	32.78	21.88	34.33	54.00	-19.67	Average	0.00
3 q	2402.000	16.15	29.09	32.77	89.93	102.40	54.00	48.40	Average	0.00

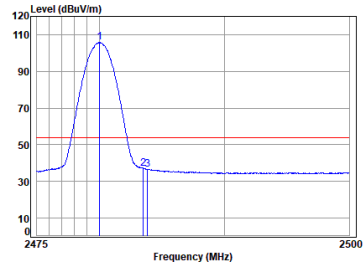
BLE_1M_TX_CH_39_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2400 Band edge
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p 2480.000	16.27	28.90	32.73	93.79	106.23	74.00	32.23	Peak	0.00
2 2483.500	16.28	28.90	32.73	36.66	49.11	74.00	-24.89	Peak	0.00
3 2483.971	16.28	28.90	32.73	36.89	49.34	74.00	-24.66	Peak	0.00

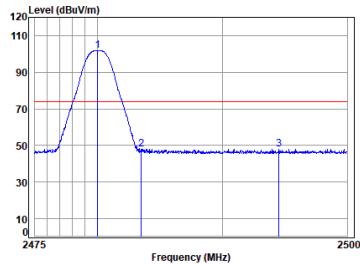
BLE_1M_TX_CH_39_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2400 Band edge
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 q 2480.000	16.27	28.90	32.73	93.26	105.70	54.00	51.70	Average	0.00
2 2483.500	16.28	28.90	32.73	24.55	37.00	54.00	-17.00	Average	0.00
3 2483.821	16.28	28.90	32.73	24.04	36.49	54.00	-17.51	Average	0.00

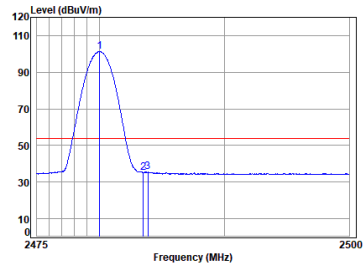
BLE_1M_TX_CH_39_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2400 Band edge
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p 2480.000	16.27	28.90	32.73	89.31	101.75	74.00	27.75	Peak	0.00
2 2483.500	16.28	28.90	32.73	35.39	47.64	74.00	-26.16	Peak	0.00
3 2494.503	16.29	28.90	32.73	35.67	48.13	74.00	-25.87	Peak	0.00

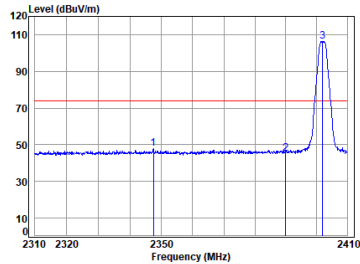
BLE_1M_TX_CH_39_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2400 Band edge
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 q 2480.000	16.27	28.90	32.73	88.76	101.20	54.00	47.20	Average	0.00
2 2483.500	16.28	28.90	32.73	22.76	35.21	54.00	-18.79	Average	0.00
3 2483.871	16.28	28.90	32.73	23.03	35.48	54.00	-18.52	Average	0.00

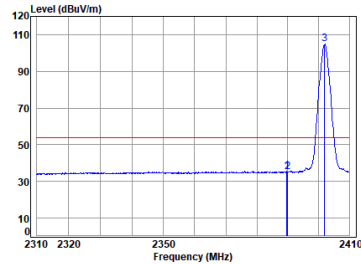
BLE_2M_TX_CH_00_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2402 Band edge
BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2347.502	16.07	29.07	32.00	35.50	47.04	74.00	-26.16	Peak	0.00
2	2390.000	16.13	29.10	32.78	32.92	45.37	74.00	-28.63	Peak	0.00
3 p	2402.000	16.15	29.09	32.77	93.74	106.21	74.00	32.21	Peak	0.00

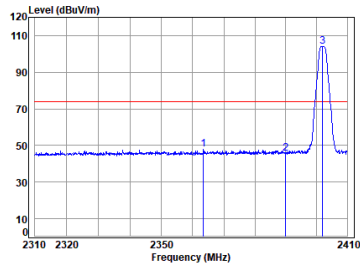
BLE_2M_TX_CH_00_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2402 Band edge
BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2389.659	16.13	29.10	32.78	23.32	35.77	54.00	-18.23	Average	0.00
2	2390.000	16.13	29.10	32.78	22.75	35.20	54.00	-18.80	Average	0.00
3 q	2402.000	16.15	29.09	32.77	92.27	104.74	54.00	50.74	Average	0.00

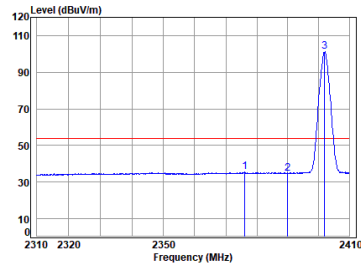
BLE_2M_TX_CH_00_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2402 Band edge
BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2363.473	16.09	29.10	32.79	35.46	47.06	74.00	-26.14	Peak	0.00
2	2390.000	16.13	29.10	32.78	33.36	45.81	74.00	-28.19	Peak	0.00
3 p	2402.000	16.15	29.09	32.77	91.55	104.02	74.00	30.02	Peak	0.00

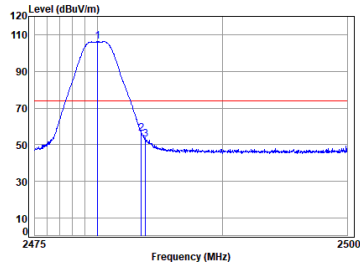
BLE_2M_TX_CH_00_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2402 Band edge
BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2376.127	16.11	29.10	32.79	23.21	35.63	54.00	-18.37	Average	0.00
2	2390.000	16.13	29.10	32.78	22.26	34.71	54.00	-19.29	Average	0.00
3 q	2402.000	16.15	29.09	32.77	88.60	101.07	54.00	47.07	Average	0.00

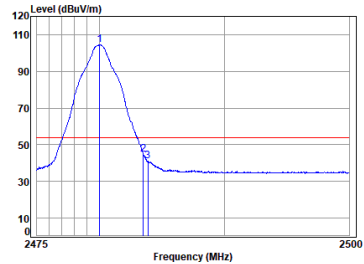
BLE_2M_TX_CH_39_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2400 Band edge
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p 2480.000	16.27	28.90	32.73	93.78	106.22	74.00	32.22	Peak	0.00
2 2483.500	16.28	28.90	32.73	43.53	55.98	74.00	-18.02	Peak	0.00
3 2483.821	16.28	28.90	32.73	40.47	52.92	74.00	-21.08	Peak	0.00

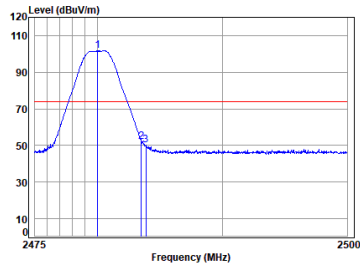
BLE_2M_TX_CH_39_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2400 Band edge
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 q 2480.000	16.27	28.90	32.73	91.37	104.41	54.00	50.41	Average	0.00
2 2483.500	16.28	28.90	32.73	32.40	44.85	54.00	-9.15	Average	0.00
3 2483.871	16.28	28.90	32.73	28.72	41.17	54.00	-12.83	Average	0.00

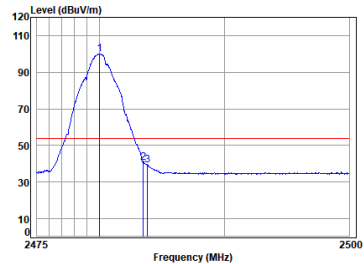
BLE_2M_TX_CH_39_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2400 Band edge
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p 2480.000	16.27	28.90	32.73	89.24	101.68	74.00	27.68	Peak	0.00
2 2483.500	16.28	28.90	32.73	39.77	52.22	74.00	-21.78	Peak	0.00
3 2483.846	16.28	28.90	32.73	37.93	50.38	74.00	-23.62	Peak	0.00

BLE_2M_TX_CH_39_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2400 Band edge
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 q 2480.000	16.27	28.90	32.73	87.37	99.81	54.00	45.81	Average	0.00
2 2483.500	16.28	28.90	32.73	28.14	40.59	54.00	-13.41	Average	0.00
3 2483.821	16.28	28.90	32.73	26.66	39.11	54.00	-14.89	Average	0.00

6.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2020) Section 6.4,6.5
 Measurement Distance: 3m
 Test Engineer: Mason Wu
 Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

Note

1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 46.8 % RH

Atmospheric Pressure: 1020 mbar



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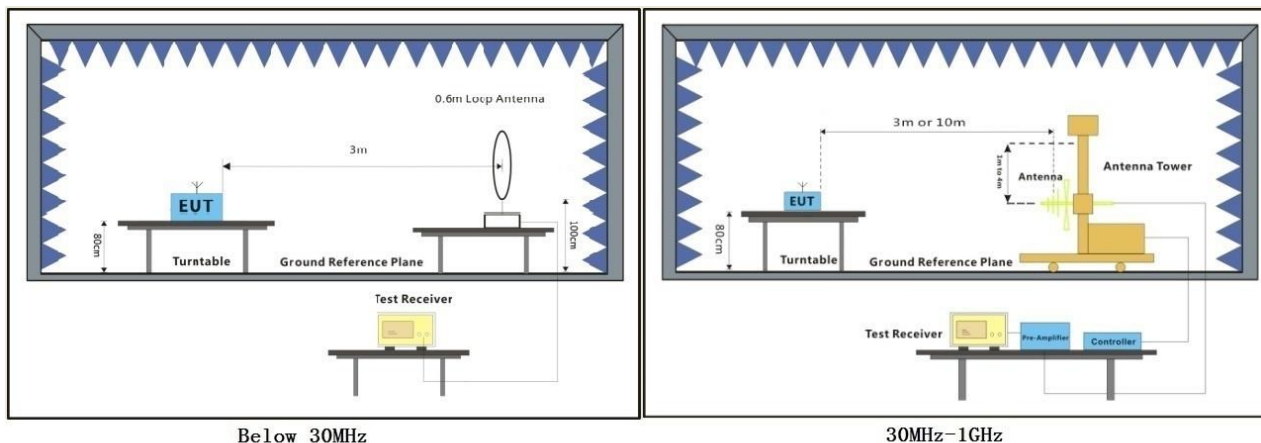
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6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	11	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	12	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	13	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	14	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

6.3.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz

6.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



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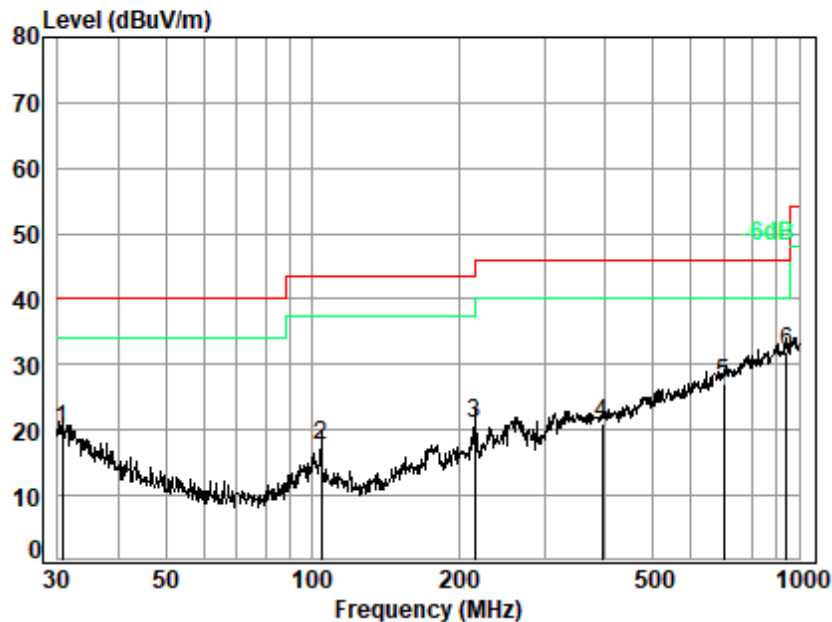
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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300102203

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Test Mode: 12; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 01022AT
Test Mode: 12
: 2#

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.638	21.12	0.75	27.65	25.81	20.03	40.00	-19.97 QP
2	104.170	12.48	1.25	27.61	31.57	17.69	43.50	-25.81 QP
3	215.268	15.01	1.77	27.75	32.01	21.04	43.50	-22.46 QP
4	393.472	20.41	2.47	27.73	25.79	20.94	46.00	-25.06 QP
5	699.305	25.89	3.41	27.83	25.57	27.04	46.00	-18.96 QP
6 q	942.131	29.01	4.06	26.72	25.70	32.05	46.00	-13.95 QP



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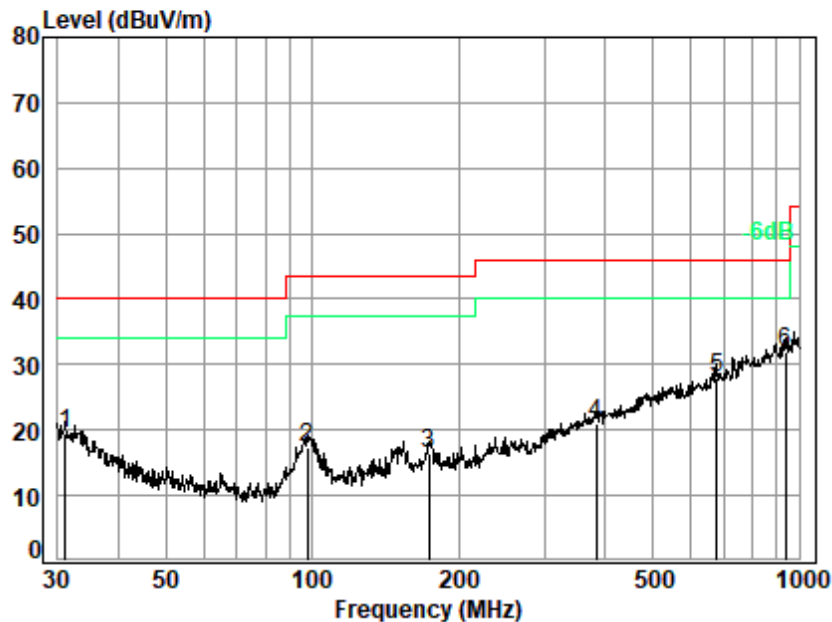
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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300102203

Page: 24 of 35

Test Mode: 12; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 01022AT
Test Mode: 12
: 2#

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.071	20.90	0.75	27.65	25.33	19.33	40.00	-20.67 QP
2	97.798	12.42	1.21	27.60	31.21	17.24	43.50	-26.26 QP
3	173.814	14.29	1.60	27.76	28.23	16.36	43.50	-27.14 QP
4	382.588	20.40	2.43	27.71	25.80	20.92	46.00	-25.08 QP
5	677.580	25.58	3.34	27.89	27.04	28.07	46.00	-17.93 QP
6 q	938.833	28.97	4.06	26.74	25.63	31.92	46.00	-14.08 QP



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Report No.: SZCR260300102203

Page: 25 of 35

6.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.6 & 11.12

Measurement Distance: 3m

Test Engineer: Logic Wang

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	11	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	12	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	13	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	14	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.



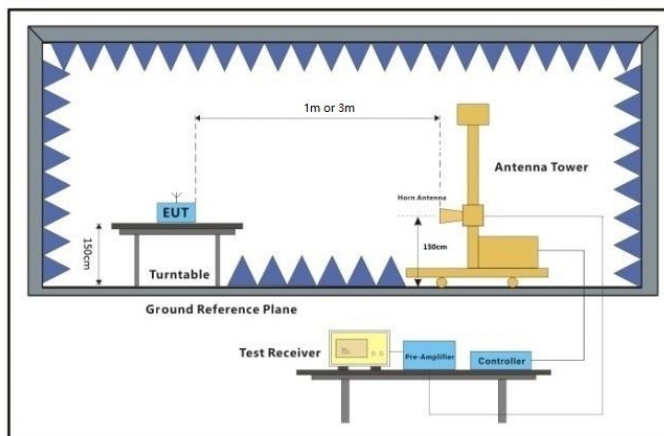
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6.4.3 Test Setup Diagram



Above 1GHz

6.4.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- h. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst-case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



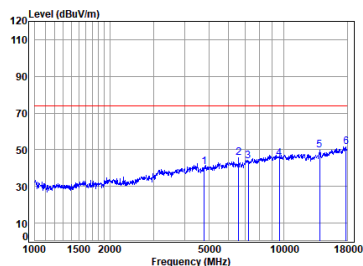
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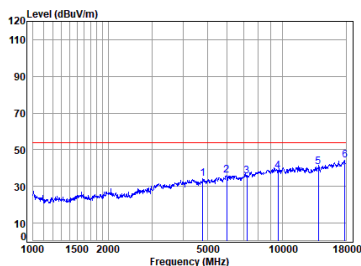
BLE_1M_TX_CH_00_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 010222AT
Mode : 2402 TX RSE
BLE

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1 4804.000	7.41	34.32	54.22	52.99	40.50	74.00	-33.50	Peak		0.00
2 6583.209	8.83	35.37	53.16	54.44	45.48	74.00	-28.52	Peak		0.00
3 7206.000	8.50	35.70	53.18	52.59	45.61	74.00	-30.39	Peak		0.00
4 9608.000	10.74	37.42	53.35	50.52	45.33	74.00	-28.67	Peak		0.00
5 13957.530	10.97	39.62	52.91	51.88	49.56	74.00	-24.44	Peak		0.00
6 p17793.090	11.38	43.89	52.50	48.85	51.62	74.00	-22.38	Peak		0.00

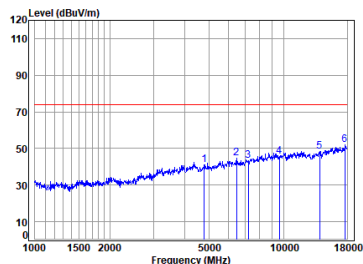
BLE_1M_TX_CH_00_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 010222AT
Mode : 2402 TX RSE
BLE

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1 4804.000	7.41	34.32	54.22	46.71	34.22	54.00	-19.78	Average		0.00
2 5984.305	8.91	34.84	53.12	45.42	36.05	54.00	-17.95	Average		0.00
3 7206.000	8.50	35.70	53.18	44.71	35.73	54.00	-18.27	Average		0.00
4 9608.000	10.74	37.42	53.35	43.31	38.12	54.00	-15.88	Average		0.00
5 13957.530	10.97	39.62	52.91	42.98	40.66	54.00	-13.34	Average		0.00
6 q17793.090	11.38	43.89	52.50	41.58	44.35	54.00	-9.65	Average		0.00

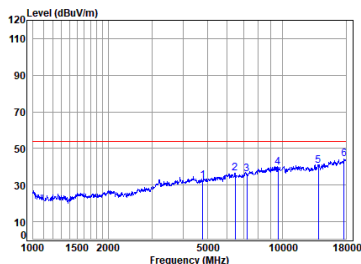
BLE_1M_TX_CH_00_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 010222AT
Mode : 2402 TX RSE
BLE

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1 4804.000	7.41	34.32	54.22	53.77	41.28	74.00	-32.72	Peak		0.00
2 6470.026	8.88	35.54	53.15	53.35	44.62	74.00	-29.38	Peak		0.00
3 7206.000	8.50	35.70	53.18	52.17	43.19	74.00	-30.81	Peak		0.00
4 9608.000	10.74	37.42	53.35	50.77	45.58	74.00	-28.42	Peak		0.00
5 13957.530	10.97	39.62	52.91	50.61	48.29	74.00	-25.71	Peak		0.00
6 p17639.470	11.28	43.68	52.58	49.62	52.00	74.00	-22.00	Peak		0.00

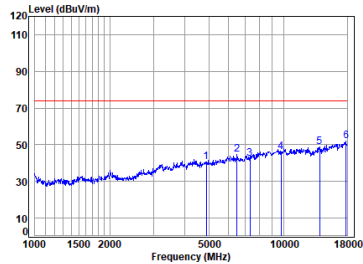
BLE_1M_TX_CH_00_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 010222AT
Mode : 2402 TX RSE
BLE

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB		dB
1 4804.000	7.41	34.32	54.22	45.05	32.56	54.00	-21.44	Average		0.00
2 6470.026	8.88	35.54	53.15	45.43	36.70	54.00	-17.30	Average		0.00
3 7206.000	8.50	35.70	53.18	45.13	36.15	54.00	-17.85	Average		0.00
4 9608.000	10.74	37.42	53.35	44.87	39.68	54.00	-14.32	Average		0.00
5 13957.530	10.97	39.62	52.91	42.84	40.52	54.00	-13.48	Average		0.00
6 q17690.530	11.32	43.78	52.55	41.75	44.30	54.00	-9.70	Average		0.00

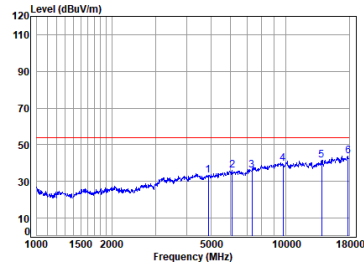
BLE_1M_TX_CH_19_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2440 TX RSE
BLE

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 4880.000	7.47	34.62	54.21	52.82	40.70	74.00	-33.30 Peak	0.00
2 6488.754	8.88	35.58	53.15	53.61	44.92	74.00	-29.08 Peak	0.00
3 7320.000	8.46	35.70	53.17	51.36	42.35	74.00	-31.65 Peak	0.00
4 9760.000	10.69	37.38	53.29	51.48	46.26	74.00	-27.74 Peak	0.00
5 13957.530	10.97	39.62	52.91	51.05	48.73	74.00	-25.27 Peak	0.00
6 p17793.090	11.38	43.89	52.50	49.15	51.92	74.00	-22.08 Peak	0.00

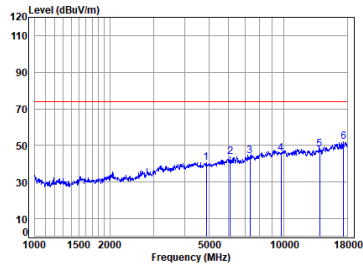
BLE_1M_TX_CH_19_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2440 TX RSE
BLE

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 4880.000	7.47	34.62	54.21	45.50	33.38	54.00	-20.62 Average	0.00
2 6088.991	8.92	35.08	53.11	45.38	36.27	54.00	-17.73 Average	0.00
3 7320.000	8.46	35.70	53.17	44.89	35.88	54.00	-18.12 Average	0.00
4 9760.000	10.69	37.38	53.29	44.86	39.64	54.00	-14.36 Average	0.00
5 13957.530	10.97	39.62	52.91	43.74	41.42	54.00	-12.58 Average	0.00
6 q17793.090	11.38	43.89	52.50	41.21	43.98	54.00	-10.02 Average	0.00

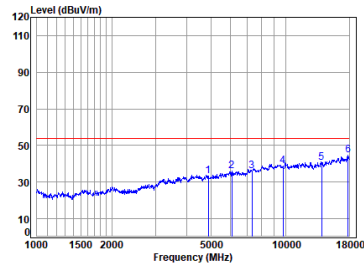
BLE_1M_TX_CH_19_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2440 TX RSE
BLE

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 4880.000	7.47	34.62	54.21	52.61	40.49	74.00	-33.51 Peak	0.00
2 6106.616	8.92	35.07	53.11	53.01	43.89	74.00	-30.11 Peak	0.00
3 7320.000	8.46	35.70	53.17	53.30	44.29	74.00	-29.71 Peak	0.00
4 9760.000	10.69	37.38	53.29	50.65	45.43	74.00	-28.57 Peak	0.00
5 13957.530	10.97	39.62	52.91	50.44	48.12	74.00	-25.88 Peak	0.00
6 p17436.710	11.17	43.40	52.68	49.90	51.79	74.00	-22.21 Peak	0.00

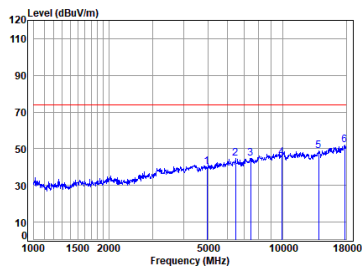
BLE_1M_TX_CH_19_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2440 TX RSE
BLE

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 4880.000	7.47	34.62	54.21	45.35	33.23	54.00	-20.77 Average	0.00
2 6071.417	8.92	35.04	53.11	45.13	35.98	54.00	-18.02 Average	0.00
3 7320.000	8.46	35.70	53.17	45.25	36.24	54.00	-17.76 Average	0.00
4 9760.000	10.69	37.38	53.29	43.90	38.68	54.00	-15.32 Average	0.00
5 13957.530	10.97	39.62	52.91	43.15	40.83	54.00	-13.17 Average	0.00
6 q17793.090	11.38	43.89	52.50	41.87	44.64	54.00	-9.36 Average	0.00

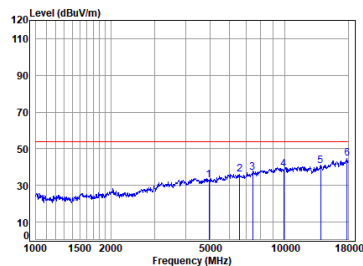
BLE_1M_TX_CH_39_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2400 TX RSE
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4960.000	7.53	34.56	54.20	52.33	40.22	74.00	-33.78	Peak	0.00
2 6470.026	8.88	35.54	53.15	53.44	44.71	74.00	-29.29	Peak	0.00
3 7440.000	8.43	35.96	53.15	53.34	44.58	74.00	-29.42	Peak	0.00
4 9920.000	10.64	37.30	53.23	50.44	45.15	74.00	-28.85	Peak	0.00
5 13957.530	10.97	39.62	52.91	51.15	48.83	74.00	-25.17	Peak	0.00
6 p17741.740	11.35	43.84	52.53	49.36	52.02	74.00	-21.98	Peak	0.00

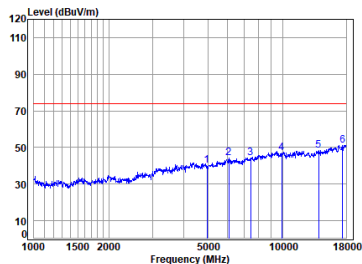
BLE_1M_TX_CH_39_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2400 TX RSE
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4960.000	7.53	34.56	54.20	45.05	32.94	54.00	-21.06	Average	0.00
2 6583.209	8.83	35.37	53.16	45.17	36.21	54.00	-17.79	Average	0.00
3 7440.000	8.43	35.96	53.15	45.50	36.74	54.00	-17.26	Average	0.00
4 9920.000	10.64	37.30	53.23	44.04	38.75	54.00	-15.25	Average	0.00
5 13957.530	10.97	39.62	52.91	42.93	40.61	54.00	-13.39	Average	0.00
6 q17793.090	11.38	43.89	52.50	42.13	44.90	54.00	-9.10	Average	0.00

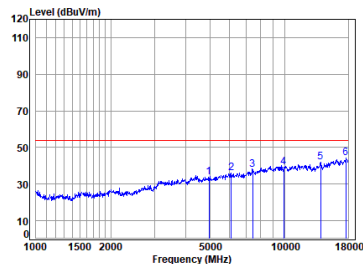
BLE_1M_TX_CH_39_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2400 TX RSE
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4960.000	7.53	34.56	54.20	52.04	39.93	74.00	-34.07	Peak	0.00
2 6071.417	8.92	35.04	53.11	53.52	44.37	74.00	-29.63	Peak	0.00
3 7440.000	8.43	35.96	53.15	52.90	44.14	74.00	-29.86	Peak	0.00
4 9920.000	10.64	37.30	53.23	52.07	46.78	74.00	-27.22	Peak	0.00
5 13957.530	10.97	39.62	52.91	50.86	48.54	74.00	-25.46	Peak	0.00
6 p17436.710	11.17	43.40	52.68	49.37	51.26	74.00	-22.74	Peak	0.00

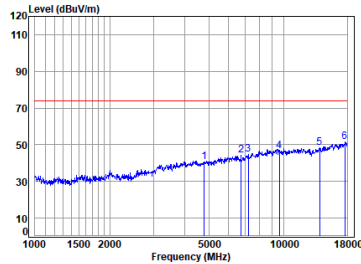
BLE_1M_TX_CH_39_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2400 TX RSE
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4960.000	7.53	34.56	54.20	46.05	33.94	54.00	-20.06	Average	0.00
2 6106.616	8.92	35.07	53.11	45.24	36.12	54.00	-17.88	Average	0.00
3 7440.000	8.43	35.96	53.15	46.70	37.94	54.00	-16.06	Average	0.00
4 9920.000	10.64	37.30	53.23	44.49	39.20	54.00	-14.80	Average	0.00
5 13957.530	10.97	39.62	52.91	44.36	42.04	54.00	-11.96	Average	0.00
6 q17639.470	11.28	43.68	52.50	41.78	44.16	54.00	-9.84	Average	0.00

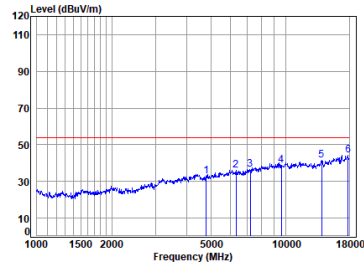
BLE_2M_TX_CH_00_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2402 TX RSE
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4804.000	7.41	34.32	54.22	53.01	40.52	74.00	-33.48	Peak	0.00
2 6737.207	8.73	35.20	53.18	53.32	44.07	74.00	-29.93	Peak	0.00
3 7206.000	8.50	35.70	53.18	53.59	44.61	74.00	-29.39	Peak	0.00
4 9608.000	10.74	37.42	53.35	51.62	46.43	74.00	-27.57	Peak	0.00
5 13957.530	10.97	39.62	52.91	50.52	48.20	74.00	-25.80	Peak	0.00
6 p17639.470	11.28	43.68	52.58	49.00	51.38	74.00	-22.62	Peak	0.00

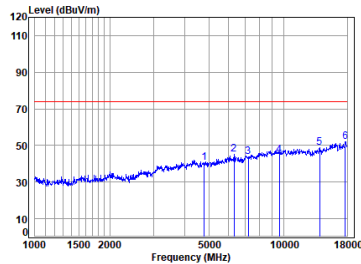
BLE_2M_TX_CH_00_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2402 TX RSE
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4804.000	7.41	34.32	54.22	45.46	32.97	54.00	-21.03	Average	0.00
2 6322.136	8.90	34.96	53.13	45.45	36.18	54.00	-17.82	Average	0.00
3 7206.000	8.50	35.70	53.18	45.30	36.32	54.00	-17.68	Average	0.00
4 9608.000	10.74	37.42	53.35	43.94	38.75	54.00	-15.25	Average	0.00
5 13957.530	10.97	39.62	52.91	43.74	41.42	54.00	-12.58	Average	0.00
6 q17793.890	11.38	43.89	52.58	41.36	44.13	54.00	-9.87	Average	0.00

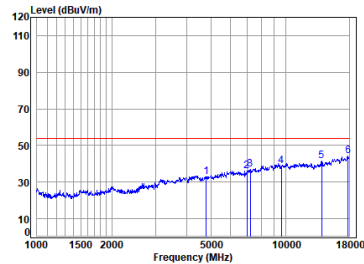
BLE_2M_TX_CH_00_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2402 TX RSE
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4804.000	7.41	34.32	54.22	53.18	40.69	74.00	-33.31	Peak	0.00
2 6322.136	8.90	34.96	53.13	54.40	45.13	74.00	-28.87	Peak	0.00
3 7206.000	8.50	35.70	53.18	52.65	43.67	74.00	-30.33	Peak	0.00
4 9608.000	10.74	37.42	53.35	49.99	44.80	74.00	-29.20	Peak	0.00
5 13957.530	10.97	39.62	52.91	51.01	48.69	74.00	-25.31	Peak	0.00
6 p17690.530	11.32	43.78	52.55	49.49	52.04	74.00	-21.96	Peak	0.00

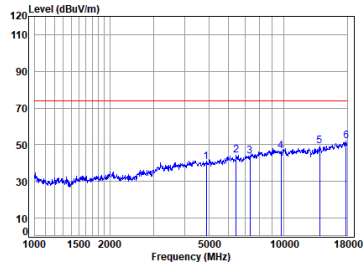
BLE_2M_TX_CH_00_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2402 TX RSE
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4804.000	7.41	34.32	54.22	45.49	33.00	54.00	-21.00	Average	0.00
2 6995.172	8.56	35.71	53.20	45.15	36.22	54.00	-17.78	Average	0.00
3 7206.000	8.50	35.70	53.18	46.12	37.14	54.00	-16.86	Average	0.00
4 9608.000	10.74	37.42	53.35	44.09	38.90	54.00	-15.10	Average	0.00
5 13957.530	10.97	39.62	52.91	43.72	41.40	54.00	-12.60	Average	0.00
6 q17844.590	11.41	43.90	52.48	41.51	44.34	54.00	-9.66	Average	0.00

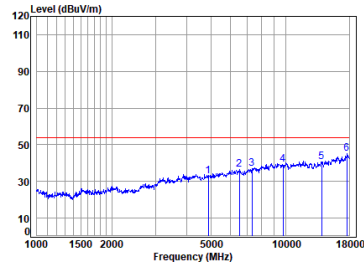
BLE_2M_TX_CH_19_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2440 TX RSE
BLE

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 4880.000	7.47	34.62	54.21	52.68	40.56	74.00	-33.44 Peak	0.00
2 6451.353	8.88	35.50	53.15	52.99	44.22	74.00	-29.78 Peak	0.00
3 7320.000	8.46	35.70	53.17	52.89	43.88	74.00	-30.12 Peak	0.00
4 9760.000	10.69	37.38	53.29	51.77	46.55	74.00	-27.45 Peak	0.00
5 13957.530	10.97	39.62	52.91	51.62	49.30	74.00	-24.70 Peak	0.00
6 p17844.590	11.41	43.90	52.48	49.26	52.09	74.00	-21.91 Peak	0.00

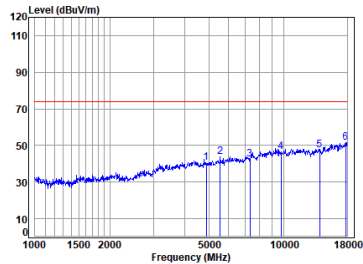
BLE_2M_TX_CH_19_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2440 TX RSE
BLE

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 4880.000	7.47	34.62	54.21	45.06	32.94	54.00	-21.06 Average	0.00
2 6507.536	8.87	35.58	53.15	45.04	36.34	54.00	-17.66 Average	0.00
3 7320.000	8.46	35.70	53.17	46.00	36.99	54.00	-17.01 Average	0.00
4 9760.000	10.69	37.38	53.29	44.43	39.21	54.00	-14.79 Average	0.00
5 13957.530	10.97	39.62	52.91	43.10	40.78	54.00	-13.22 Average	0.00
6 q17639.470	11.28	43.68	52.58	42.76	45.14	54.00	-8.86 Average	0.00

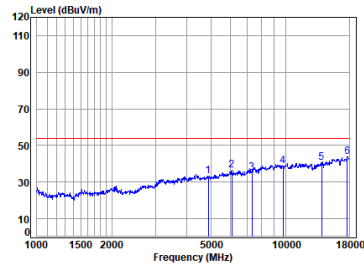
BLE_2M_TX_CH_19_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2440 TX RSE
BLE

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 4880.000	7.47	34.62	54.21	52.59	40.47	74.00	-33.53 Peak	0.00
2 5551.069	8.24	34.70	53.57	54.56	43.93	74.00	-30.07 Peak	0.00
3 7320.000	8.46	35.70	53.17	51.44	42.43	74.00	-31.57 Peak	0.00
4 9760.000	10.69	37.38	53.29	51.64	46.42	74.00	-27.58 Peak	0.00
5 13957.530	10.97	39.62	52.91	49.95	47.63	74.00	-26.37 Peak	0.00
6 p17741.740	11.35	43.84	52.53	48.94	51.60	74.00	-22.40 Peak	0.00

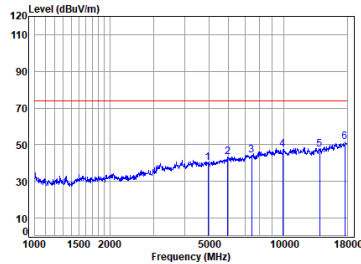
BLE_2M_TX_CH_19_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2440 TX RSE
BLE

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 4880.000	7.47	34.62	54.21	45.22	33.10	54.00	-20.90 Average	0.00
2 6071.417	8.92	35.04	53.11	45.68	36.53	54.00	-17.47 Average	0.00
3 7320.000	8.46	35.70	53.17	44.17	35.16	54.00	-18.84 Average	0.00
4 9760.000	10.69	37.38	53.29	43.95	38.73	54.00	-15.27 Average	0.00
5 13957.530	10.97	39.62	52.91	42.92	40.60	54.00	-13.40 Average	0.00
6 q17690.530	11.32	43.78	52.55	41.30	43.93	54.00	-10.07 Average	0.00

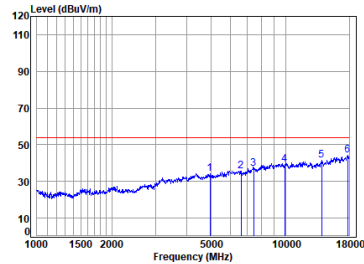
BLE_2M_TX_CH_39_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2400 TX RSE
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4960.000	7.53	34.56	54.20	52.43	40.32	74.00	-33.68	Peak	0.00
2 5967.033	8.88	34.77	53.13	52.91	43.43	74.00	-30.57	Peak	0.00
3 7440.000	8.43	35.96	53.15	53.11	44.35	74.00	-29.65	Peak	0.00
4 9920.000	10.64	37.30	53.23	52.79	47.50	74.00	-26.50	Peak	0.00
5 13957.530	10.97	39.62	52.91	49.76	47.44	74.00	-26.56	Peak	0.00
6 p17639.470	11.28	43.68	52.58	49.06	51.44	74.00	-22.56	Peak	0.00

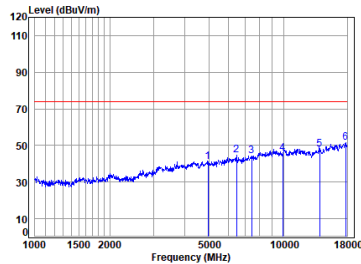
BLE_2M_TX_CH_39_Horizontal-Avg



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2400 TX RSE
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4960.000	7.53	34.56	54.20	46.31	34.20	54.00	-19.80	Average	0.00
2 6621.375	8.80	35.26	53.16	44.75	35.65	54.00	-18.35	Average	0.00
3 7440.000	8.43	35.96	53.15	45.63	36.87	54.00	-17.13	Average	0.00
4 9920.000	10.64	37.30	53.23	44.41	39.12	54.00	-14.88	Average	0.00
5 13957.530	10.97	39.62	52.91	43.62	41.30	54.00	-12.70	Average	0.00
6 q17741.740	11.35	43.84	52.53	41.66	44.32	54.00	-9.68	Average	0.00

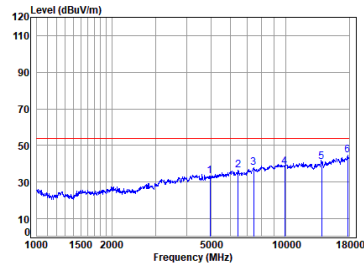
BLE_2M_TX_CH_39_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2400 TX RSE
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4960.000	7.53	34.56	54.20	53.05	40.94	74.00	-33.06	Peak	0.00
2 6470.026	8.88	35.54	53.15	53.25	44.52	74.00	-29.48	Peak	0.00
3 7440.000	8.43	35.96	53.15	52.94	44.18	74.00	-29.82	Peak	0.00
4 9920.000	10.64	37.30	53.23	51.09	45.80	74.00	-28.20	Peak	0.00
5 13957.530	10.97	39.62	52.91	50.27	47.95	74.00	-26.05	Peak	0.00
6 p17741.740	11.35	43.84	52.53	48.90	51.56	74.00	-22.44	Peak	0.00

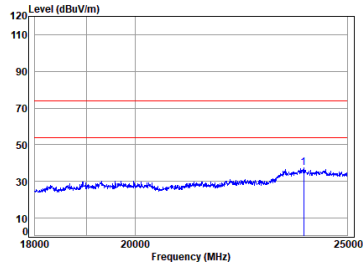
BLE_2M_TX_CH_39_Vertical-Avg



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2400 TX RSE
BLE

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4960.000	7.53	34.56	54.20	45.22	33.11	54.00	-20.89	Average	0.00
2 6432.732	8.89	35.40	53.15	45.17	36.31	54.00	-17.69	Average	0.00
3 7440.000	8.43	35.96	53.15	46.69	37.93	54.00	-16.07	Average	0.00
4 9920.000	10.64	37.30	53.23	43.76	38.47	54.00	-15.53	Average	0.00
5 13957.530	10.97	39.62	52.91	43.18	40.86	54.00	-13.14	Average	0.00
6 q17741.740	11.35	43.84	52.53	42.27	44.93	54.00	-9.07	Average	0.00

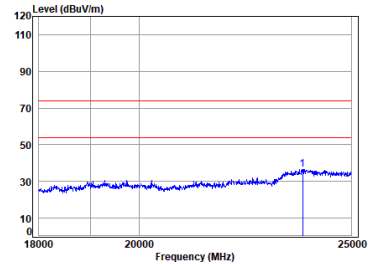
BLE_TX_CH_M_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01022AT
Mode : 2440 TX RSE
BLE

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Remark	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit		Factor
	dB			dB			dB		dB
1 p23884.120	6.78	38.95	50.38	51.51	37.32	74.00	-36.68	Peak	-9.54

BLE_TX_CH_M_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 01022AT
Mode : 2440 TX RSE
BLE

Freq	Cable	Ant	Preamp	Read	Level	Limit	Over	Remark	Aux
MHz	Loss	Factor	Factor	Level	dBuV/m	dBuV/m	Limit		Factor
	dB			dB			dB		dB
1 p23758.910	6.77	38.90	50.35	50.79	36.57	74.00	-37.43	Peak	-9.54



7 Test Setup Photo

Refer to Appendix – Test Setup Photos for SZCR2603001022AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal photos for SZCR2603001022AT

- End of the Report -



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