

TEST REPORT

Application No.: FYCR2607000373AT
Applicant: Harman International Industries, Inc.
Address of Applicant: 8500 Balboa Boulevard, Northridge, California, 91325, United States
Manufacturer: Harman International Industries, Inc.
Address of Manufacturer: 8500 Balboa Boulevard, Northridge, California, 91325, United States
Equipment Under Test (EUT):
EUT Name: BLUETOOTH HEADSET
Model No.: TUNE BUDS 3
Trade Mark: JBL
FCC ID: APITUNEBUDS3
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2026-07-31
Date of Test: 2026-08-06 to 2026-08-20
Date of Issue: 2026-08-28

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



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 Shenzhen Branch

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-08-28		Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan/Reviewer		



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2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10-2020+Cor.1-2023 Section 6.10.5 & 7.8.8	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10-2020+Cor.1-2023 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+Cor.1-2023 Section 6.6 & 7.8.8	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Remark:

Model No.: TUNE BUDS 3

This test report (Ref. No.: FYCR260700037302) is only valid with the original test report (Ref. No.: FYCR260500002602).

According to the applicant's declaration, the models covered in this report are identical to those in the original report, with an additional ghost version. The only difference lies in the use of a new antenna, details of which are shown below:

Earbuds:	Original Antenna	New Antenna
Antenna Type:	PIFA Antenna	PIFA Antenna
Antenna Gain:	Left earbuds: -0.96dBi; Right earbuds: 1.16dBi	Left earbuds: -0.93dBi; Right earbuds: 1.09dBi

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Radiated Spurious Emissions and Radiated Emissions which fall in the restricted bands were fully retested on model and shown the data in this report, other tests please refer to original report FYCR260500002602.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Battery: Left earbuds: Li-Ion Polymer Battery 3.85V 70mAh (Charged by charging case) Right earbuds: Li-Ion Polymer Battery 3.85V 70mAh (Charged by charging case) Charging case: Li-Ion Polymer Battery 3.87V 570mAh (Charged by type-C port)
Cable(s):	N/A
Technology Type:	BT Classic
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK, Pi/4DQPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	PIFA Antenna
Antenna Gain:	Left earbuds: -0.93dBi; Right earbuds: 1.09dBi

Remark:The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	SAMSUNG	EP-TA200	REF. No.SEA05004D
USB Cable	PHILIPS	SWR2101	REF. No.SEA07B00

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	$\pm 4.7\text{dB}$
Radiated Spurious Emissions Below 1GHz	$\pm 5.7\text{dB}$
Radiated Spurious Emissions Above 1GHz	$\pm 4.7\text{dB}$ (1-18GHz); $\pm 4.7\text{dB}$ (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.
 – the measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



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4.4 Test Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-54	2025/5/24	2027/5/23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2026/2/5	2027/2/4
Coaxial Cable	CCS	N/A	SEM035-02	2026/5/12	2027/5/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2026/2/5	2027/2/4
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2026/2/5	2027/2/4
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026/3/4	2027/3/3
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-26	2025/8/29	2027/8/28
Loop Antenna	ETS-LINDGREN	6502	SEM003-43	2025/6/16	2027/6/15
MXE EMI receiver	Agilent	N9038A	SEM004-05	2026/7/03	2027/7/02
Pre-amplifier	HP	8447D	SEM005-02	2026/7/07	2027/7/06
Coaxial Cable	CCS	N/A	SEM035-01	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025/7/29	2027/7/28
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-54	2025/5/24	2027/5/23
Pre-amplifier	TST PASS	LNA180400G40	SEM005-39	2026/4/29	2027/4/28
Pre-amplifier	TST PASS	LNA10180G60	SEM005-32	2026/4/4	2027/4/3
Coaxial Cable	CCS	N/A	SEM035-02	2026/5/12	2027/5/11
Coaxial Cable	CCS	N/A	SEM035-03	2026/5/12	2027/5/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2026/2/5	2027/2/4
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2026/2/5	2027/2/4
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026/3/4	2027/3/3
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-52	2026/7/8	2027/7/7
Humidity/ Temperature Indicator	deli	8838	SEM002-53	2026/7/8	2027/7/7
Barometer	DUMAI	DYM3	SEM002-24	2026/7/10	2027/7/9



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6 Radio Spectrum Matter Test Results

6.1 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+Cor.1-2023 Section 6.10.5 & 7.8.8
 Measurement Distance: 3m
 Test Engineer: Rex Liu

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.

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C Humidity: 50.6 % RH Atmospheric Pressure: 1000 mbar



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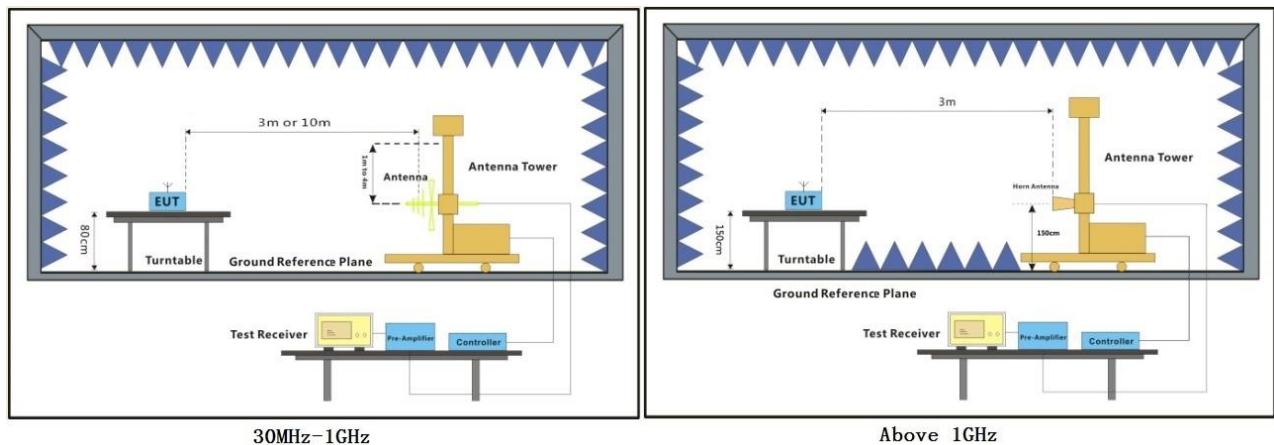
Report No.:FYCR260700037302

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6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Pre-scan	01	Charge + TX_non-Hop mode(Left earbuds)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	07	TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Pre-scan	08	Charge + TX_non-Hop mode(Right earbuds)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

6.1.3 Test Setup Diagram



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6.1.4 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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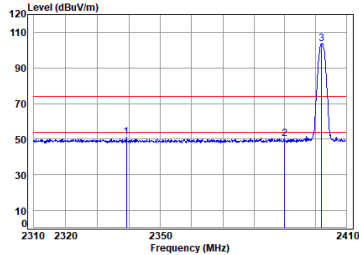
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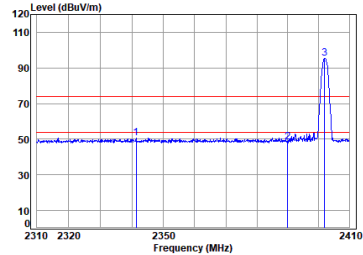
BT_DH5_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL
Job No : 00373AT/00374AT
Mode : 2402 Band edge
: BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2339.259	7.02	27.18	32.99	49.80	51.01	74.00	-22.99	Peak	0.00
2	2390.000	7.04	27.12	32.96	49.07	50.27	74.00	-23.73	Peak	0.00
3 pp	2402.000	7.04	27.12	32.95	102.39	103.60	74.00	29.60	Peak	0.00

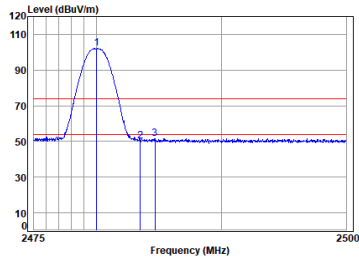
BT_DH5_TX_CH_00_Vertical



Condition: 3m VERTICAL
Job No : 00373AT/00374AT
Mode : 2402 Band edge
: BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	2341.342	7.02	27.18	32.99	49.57	50.78	74.00	-23.22	Peak	0.00
2	2390.000	7.04	27.12	32.96	47.38	48.58	74.00	-25.42	Peak	0.00
3 pp	2402.000	7.04	27.12	32.95	94.09	95.30	74.00	21.30	Peak	0.00

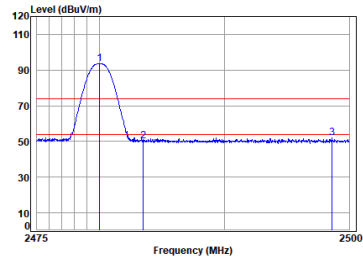
BT_DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL
Job No : 00373AT/00374AT
Mode : 2400 Band edge
: BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2480.000	7.07	27.68	32.91	100.17	102.01	74.00	28.01	Peak	0.00
2	2483.500	7.07	27.70	32.91	48.52	50.38	74.00	-23.62	Peak	0.00
3	2484.670	7.07	27.71	32.91	49.86	51.73	74.00	-22.27	Peak	0.00

BT_DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL
Job No : 00373AT/00374AT
Mode : 2400 Band edge
: BT L

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp	2480.000	7.07	27.68	32.91	91.62	93.46	74.00	19.46	Peak	0.00
2	2483.500	7.07	27.70	32.91	48.51	50.37	74.00	-23.63	Peak	0.00
3	2480.644	7.08	27.79	32.90	50.01	51.98	74.00	-22.02	Peak	0.00



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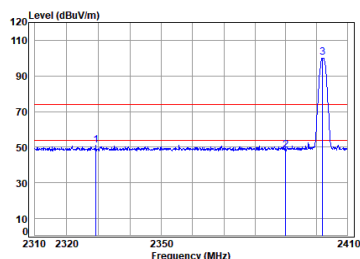
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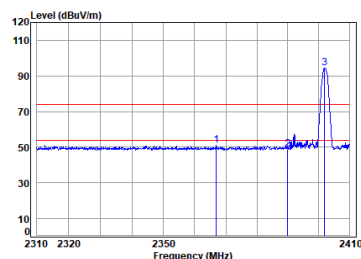
BT_DH5_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL
Job No : 00373AT/00374AT
Mode : 2402 Band edge
BT R

	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	2329.169	7.02	27.16	33.00	49.87	51.05	74.00	-22.95	Peak	0.00
2	2398.000	7.04	27.12	32.96	47.12	48.32	74.00	-25.68	Peak	0.00
3	2402.000	7.04	27.12	32.95	55.27	100.45	74.00	26.45	Peak	0.00

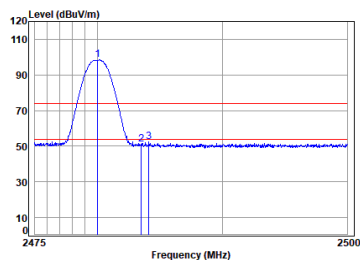
BT_DH5_TX_CH_00_Vertical



Condition: 3m VERTICAL
Job No : 00373AT/00374AT
Mode : 2402 Band edge
BT R

	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	2329.169	7.03	27.17	32.97	49.87	51.10	74.00	-22.90	Peak	0.00
2	2398.000	7.04	27.12	32.96	47.54	48.74	74.00	-25.26	Peak	0.00
3	2402.000	7.04	27.12	32.95	53.47	94.68	74.00	20.68	Peak	0.00

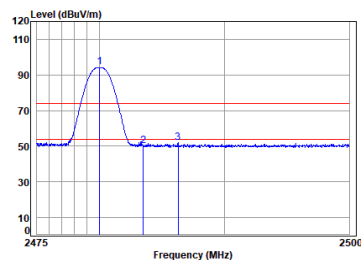
BT_DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL
Job No : 00373AT/00374AT
Mode : 2480 Band edge
BT R

	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	2480.000	7.07	27.68	32.91	96.80	98.64	74.00	24.64	Peak	0.00
2	2483.500	7.07	27.70	32.91	49.08	50.94	74.00	-23.06	Peak	0.00
3	2486.096	7.07	27.71	32.91	50.39	52.26	74.00	-21.74	Peak	0.00

BT_DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL
Job No : 00373AT/00374AT
Mode : 2480 Band edge
BT R

	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	2480.000	7.07	27.68	32.91	92.52	94.36	74.00	20.36	Peak	0.00
2	2483.500	7.07	27.70	32.91	48.37	50.23	74.00	-23.77	Peak	0.00
3	2486.269	7.08	27.72	32.91	50.06	51.95	74.00	-22.05	Peak	0.00

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6.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.4,6.5
 Measurement Distance: 3m
 Test Engineer: Fly Yan

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).

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 46.8 % RH Atmospheric Pressure: 1000 mbar



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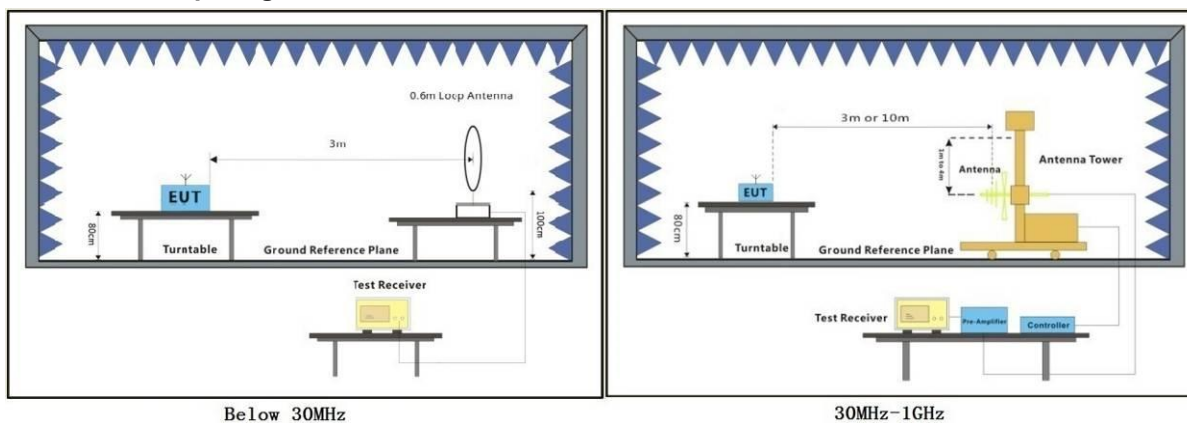
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6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	01	Charge + TX_non-Hop mode(Left earbuds)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Pre-scan	07	TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	08	Charge + TX_non-Hop mode(Right earbuds)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

6.2.3 Test Setup Diagram



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6.2.4 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 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.
2. 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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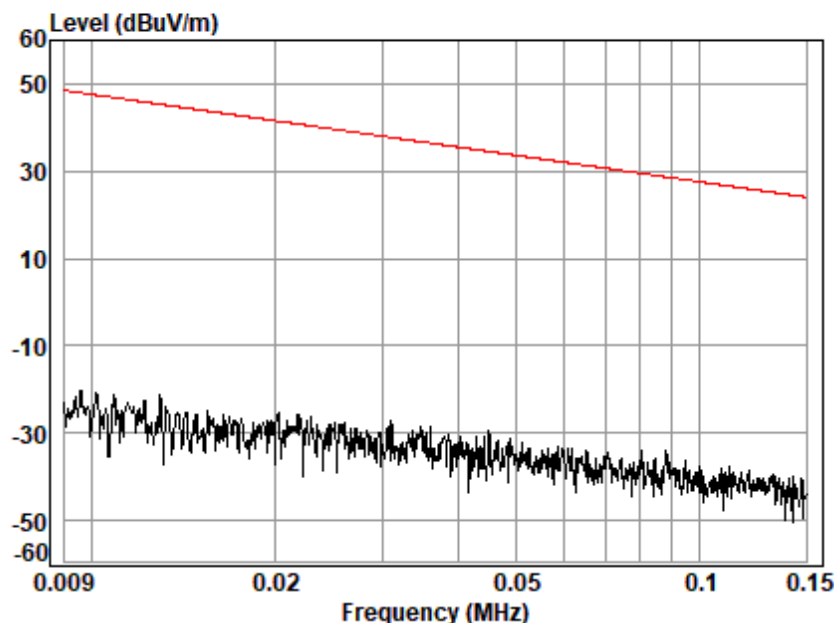
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.:FYCR260700037302

Page: 17 of 37

Test Mode: 01; Polarity: Coaxial



Site : chamber
Condition: 3m
Job No. : 00373AT
Test Mode: 01
Polarity : coaxial



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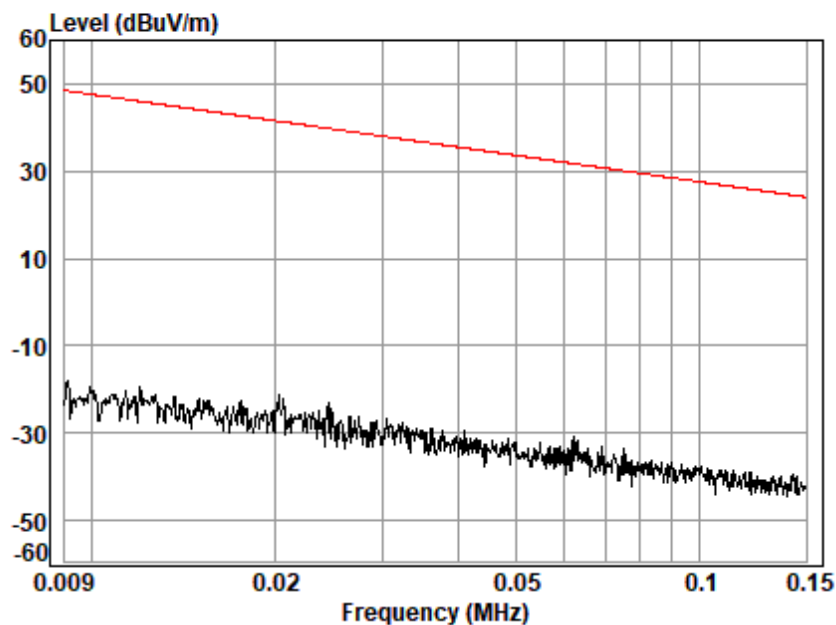
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Report No.:FYCR260700037302

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Test Mode: 01; Polarity: Coplanar



Site : chamber
Condition: 3m
Job No. : 00373AT
Test Mode: 01
Polarity : coplanar



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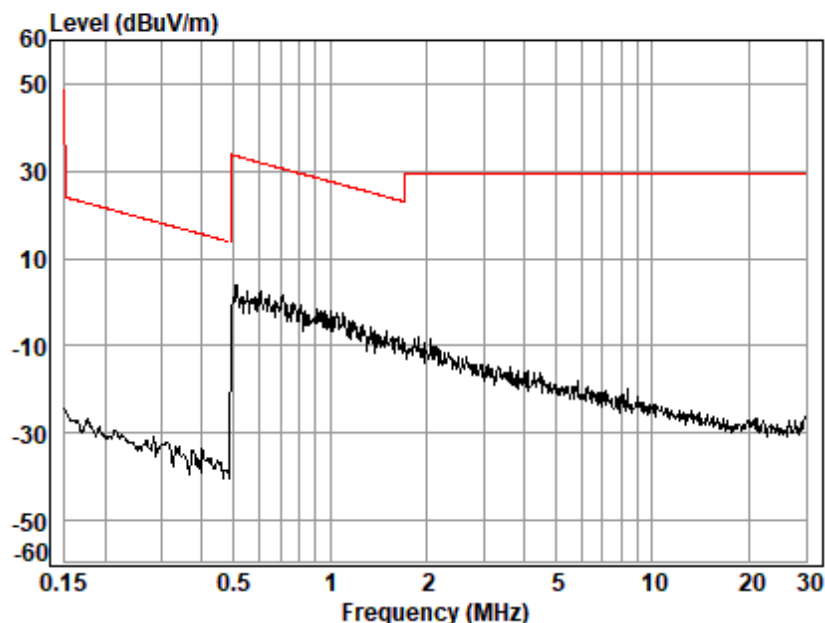
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Test Mode: 01; Polarity: Coaxial



Site : chamber
Condition: 3m
Job No. : 00373AT
Test Mode: 01
Polarity : coaxial



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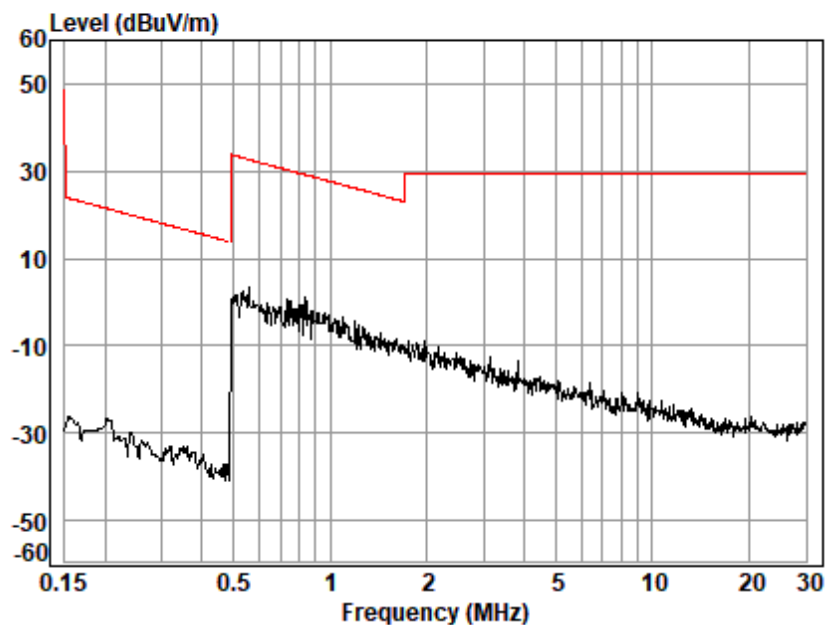
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Test Mode: 01; Polarity: Coplanar



Site : chamber
Condition: 3m
Job No. : 00373AT
Test Mode: 01
Polarity : coplanar



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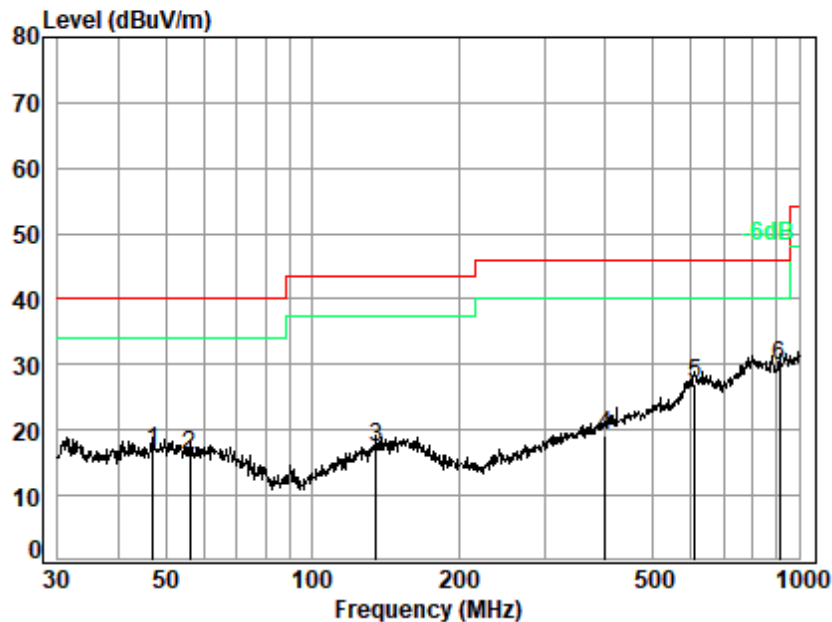
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Report No.:FYCR260700037302

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Test Mode: 01; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00373AT/00374AT

Mode : 01

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	47.16	0.69	17.73	26.10	24.51	16.83	40.00	-23.17 QP
2	56.00	0.40	17.61	26.10	24.22	16.13	40.00	-23.87 QP
3	135.03	1.39	16.45	25.71	25.07	17.20	43.50	-26.30 QP
4	399.03	1.56	19.70	25.98	23.96	19.24	46.00	-26.76 QP
5	612.06	3.33	24.20	26.56	26.04	27.01	46.00	-18.99 QP
6	909.67	2.07	27.40	26.38	26.59	29.68	46.00	-16.32 QP



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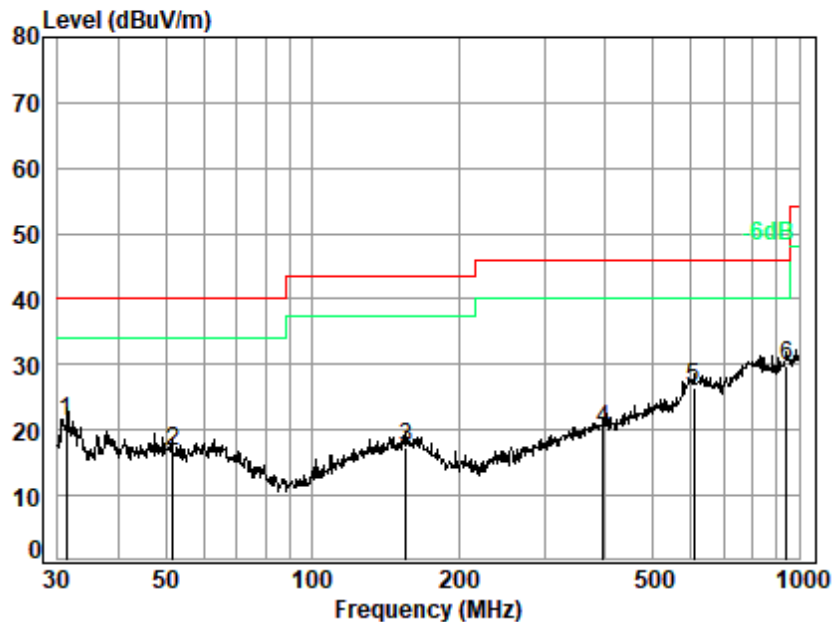
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Test Mode: 01; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 00373AT/00374AT

Mode : 01

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.29	0.65	16.61	26.13	30.23	21.36	40.00	-18.64	QP
2	51.66	0.64	17.78	26.10	24.31	16.63	40.00	-23.37	QP
3	155.91	1.25	17.44	25.62	24.34	17.41	43.50	-26.09	QP
4	396.24	1.55	19.66	25.96	24.76	20.01	46.00	-25.99	QP
5	607.79	3.40	24.21	26.56	25.42	26.47	46.00	-19.53	QP
6	942.13	2.73	28.11	26.35	25.35	29.84	46.00	-16.16	QP



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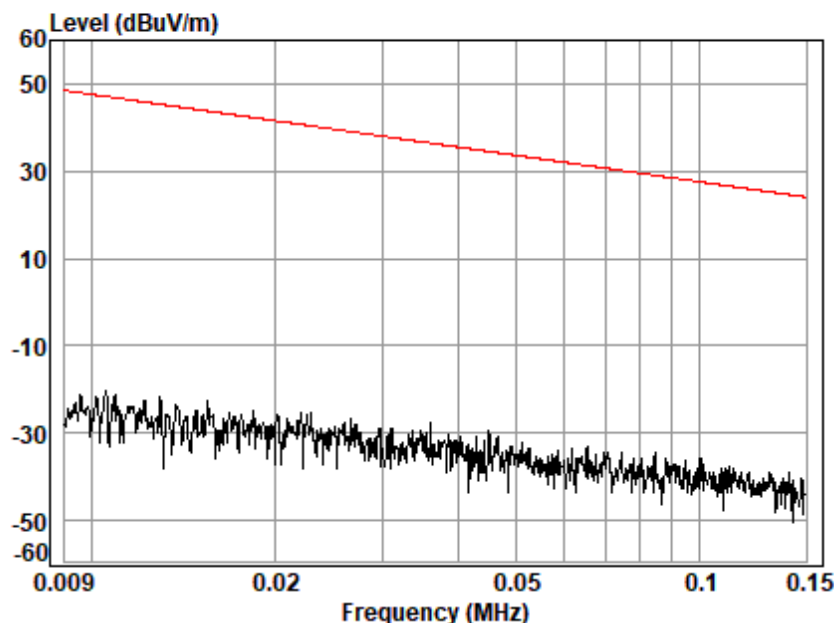
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Report No.:FYCR260700037302

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Test Mode: 08; Polarity: Coaxial



Site : chamber
Condition: 3m
Job No. : 00373AT
Test Mode: 08
Polarity : coaxial



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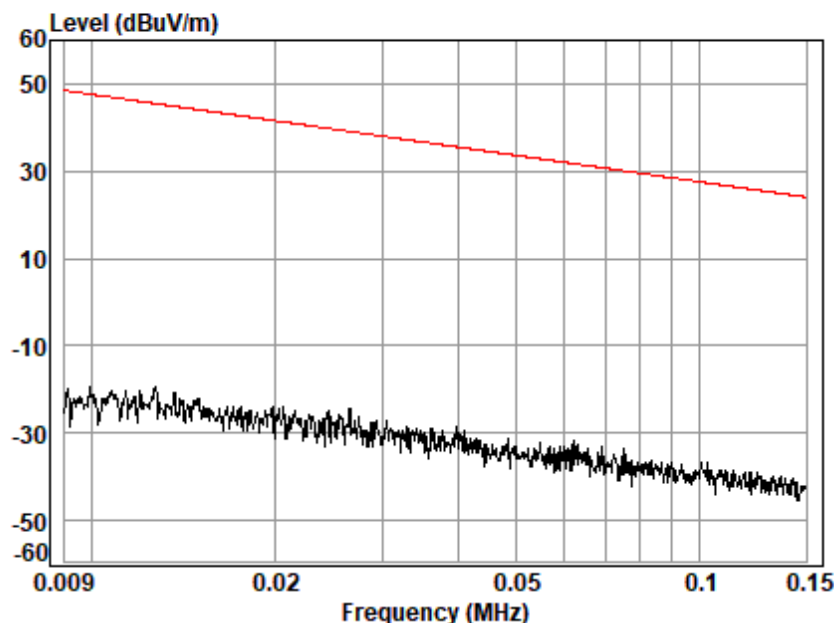
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Test Mode: 08; Polarity: Coplanar



Site : chamber
Condition: 3m
Job No. : 00373AT
Test Mode: 08
Polarity : coplanar



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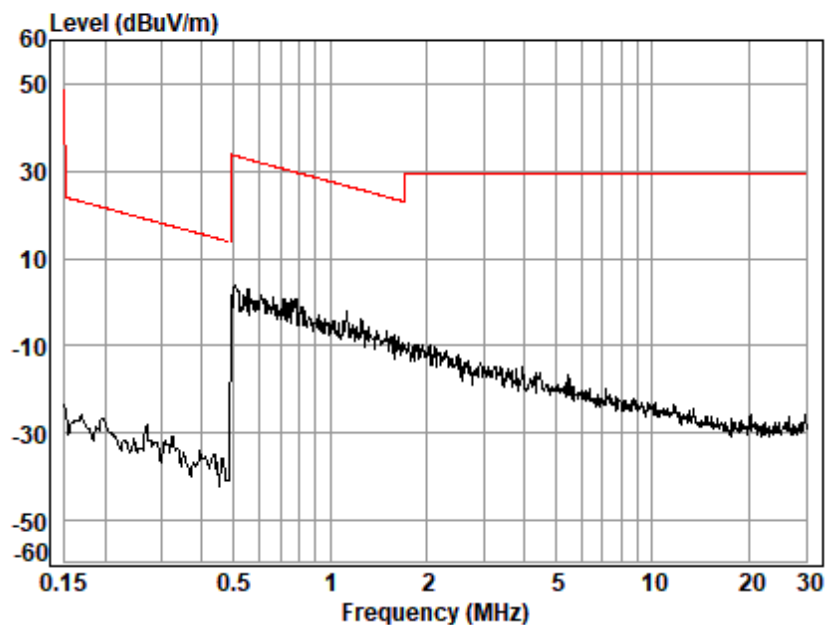
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Test Mode: 08; Polarity: Coaxial



Site : chamber
Condition: 3m
Job No. : 00373AT
Test Mode: 08
Polarity : coaxial



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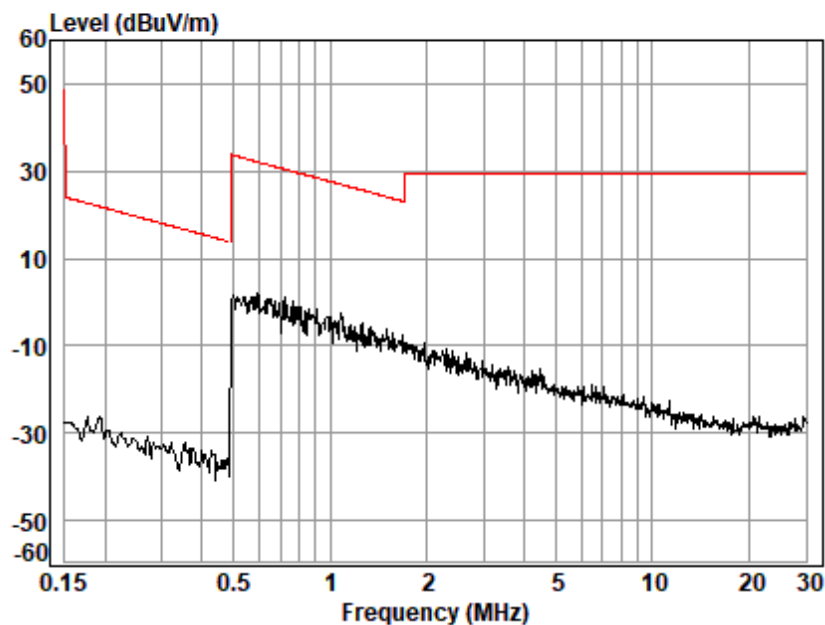
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Test Mode: 08; Polarity: Coplanar



Site : chamber
Condition: 3m
Job No. : 00373AT
Test Mode: 08
Polarity : coplanar



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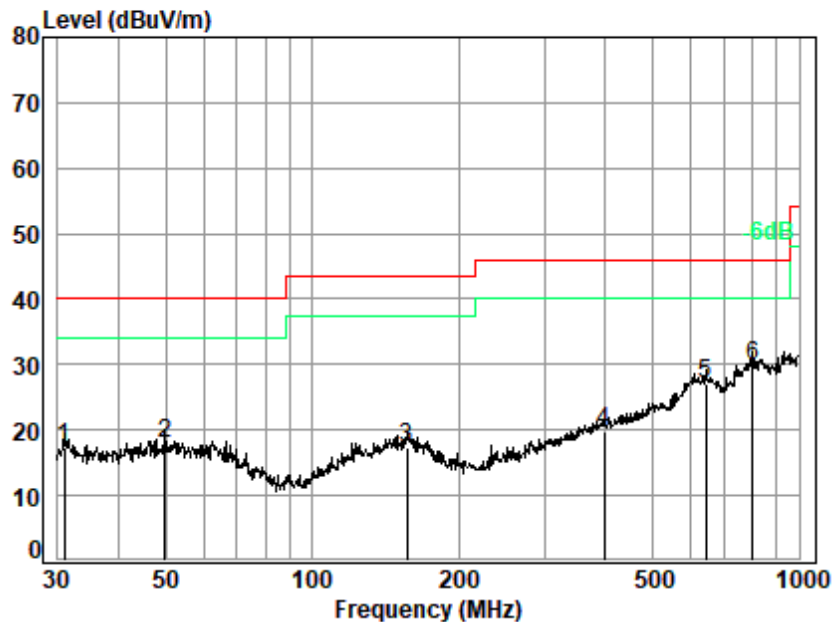
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Test Mode: 08; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00373AT/00374AT
Mode : 08

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.96	0.65	16.61	26.13	26.25	17.38	40.00	-22.62	QP
2	49.88	0.81	17.78	26.10	25.54	18.03	40.00	-21.97	QP
3	156.46	1.25	17.44	25.61	24.28	17.36	43.50	-26.14	QP
4	397.63	1.55	19.68	25.97	24.42	19.68	46.00	-26.32	QP
5	642.86	2.83	24.45	26.55	26.48	27.21	46.00	-18.79	QP
6	801.79	3.45	26.86	26.50	26.03	29.84	46.00	-16.16	QP



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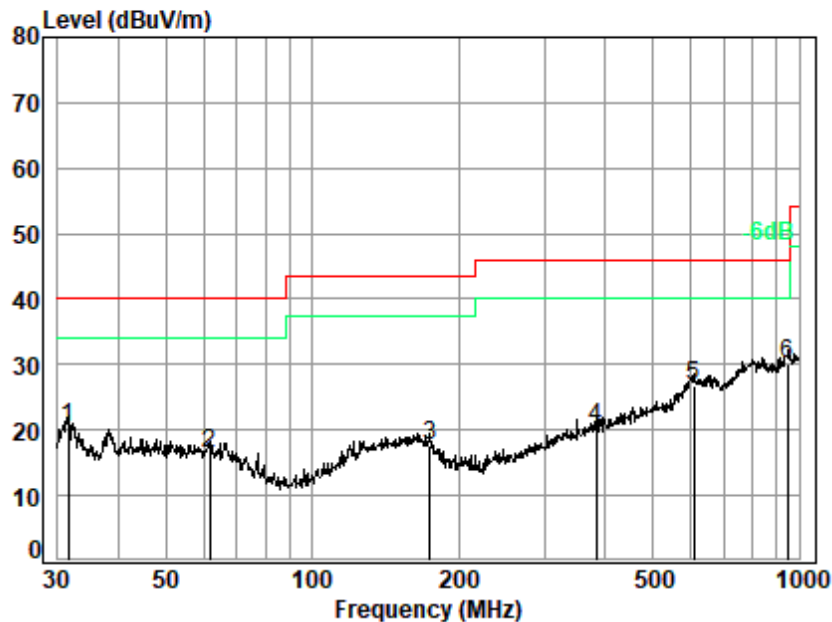
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.:FYCR260700037302

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Test Mode: 08; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00373AT/00374AT
Mode : 08

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.51	0.64	16.62	26.13	29.20	20.33	40.00	-19.67 QP
2	61.56	0.82	17.11	26.10	24.57	16.40	40.00	-23.60 QP
3	174.42	0.77	16.39	25.55	26.00	17.61	43.50	-25.89 QP
4	382.59	1.52	19.42	25.87	25.19	20.26	46.00	-25.74 QP
5	607.79	3.40	24.21	26.56	25.63	26.68	46.00	-19.32 QP
6	948.76	2.87	28.16	26.35	25.58	30.26	46.00	-15.74 QP



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6.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.6 & 7.8.8
 Measurement Distance: 3m
 Test Engineer: Rex Liu

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).

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.8 °C Humidity: 52.6 % RH Atmospheric Pressure: 1000 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Pre-scan	01	Charge + TX_non-Hop mode(Left earbuds)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	07	TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Pre-scan	08	Charge + TX_non-Hop mode(Right earbuds)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

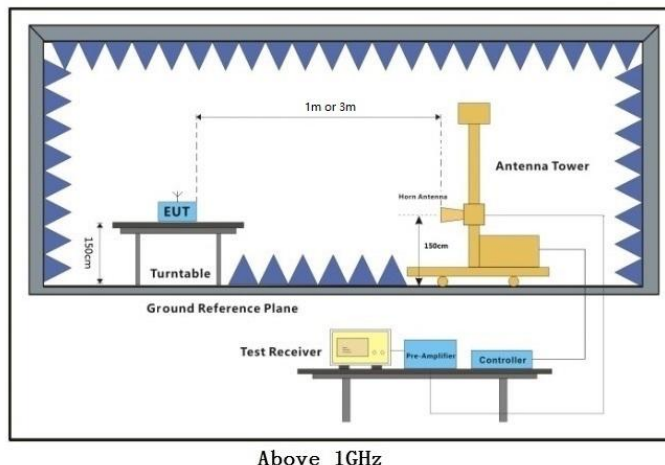


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6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

- 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.
- The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
- 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.
- For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
- For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s).



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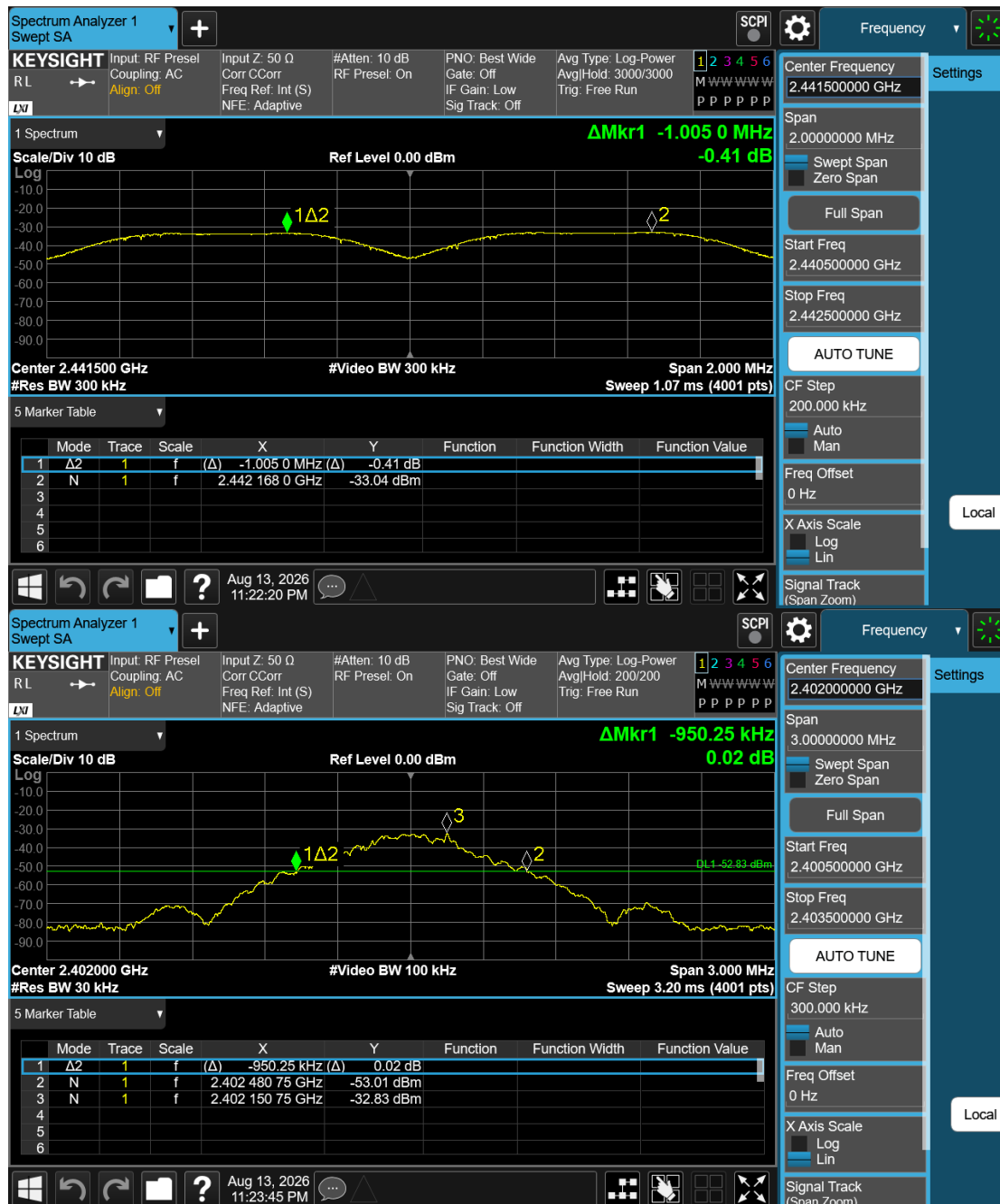
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FCC BT DH5 Band edge and RSE TX Worse:

	Hopping number	On time(ms)	Duty cycle(%)	Correction factor									
				Bandedge	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
DH5	1	2.88	0.03	-30.81	-30.81	-30.81	-30.81	-30.81	-30.81	-30.81	-30.81	-30.81	-30.81



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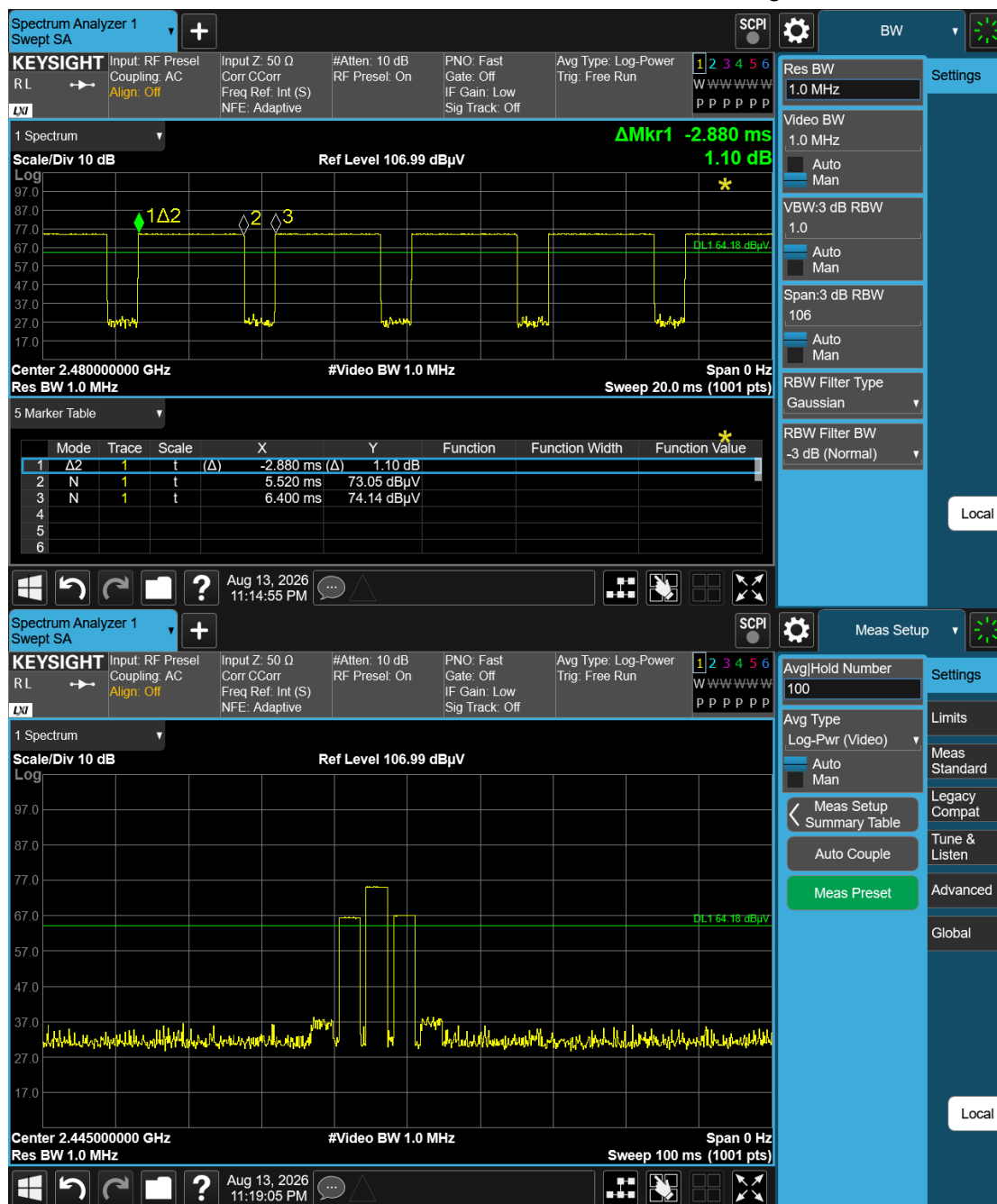
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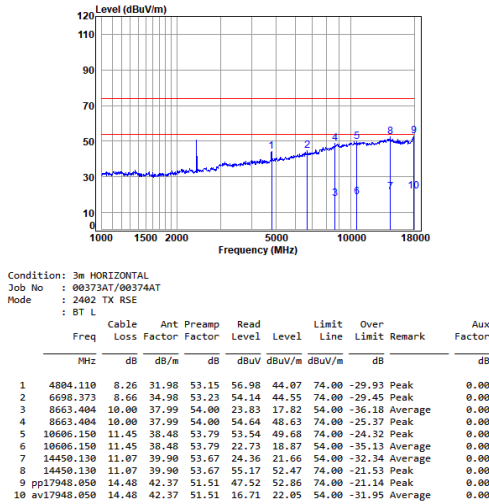


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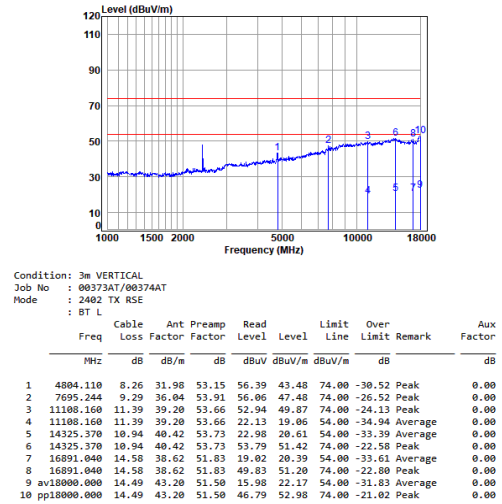
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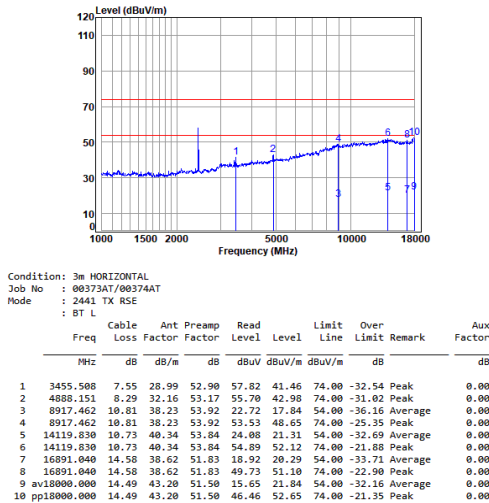
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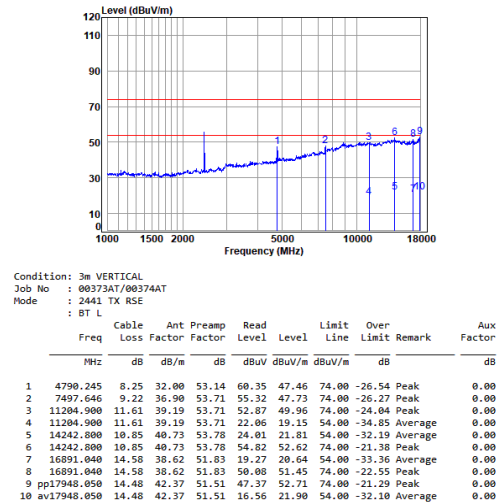
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BT_DH5_TX_CH_39_Horizontal



BT_DH5_TX_CH_39_Vertical



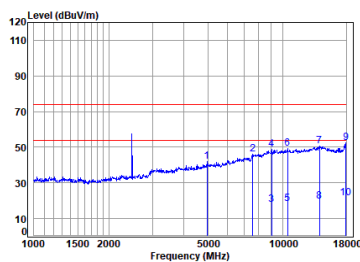
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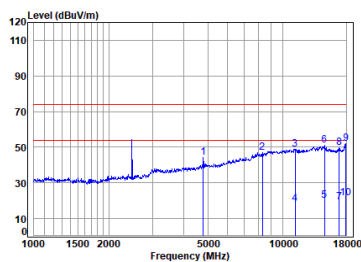
BT_DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL
Job No : 00373AT/00374AT
Mode : 2400 TX RSE
: BT L

Freq	Cable	Loss	Ant	Preamp	Read	Limit	Over	Aux
MHz	dB	dB/m	Factor	Factor	Level	Line	Limit	Factor
					dBuV/m	dBuV/m	dB	
1	4959.307	8.32	32.25	53.19	54.76	42.14	74.00	-31.86 Peak
2	7504.833	9.25	36.04	53.00	54.40	45.97	74.00	-28.03 Peak
3	9021.160	11.11	38.38	53.90	22.27	17.06	54.00	-36.14 Average
4	9021.160	11.11	38.38	53.90	53.00	48.67	74.00	-25.33 Peak
5	10484.230	11.54	38.47	53.85	22.11	18.27	54.00	-35.73 Average
6	10484.230	11.54	38.47	53.85	52.92	49.08	74.00	-24.92 Peak
7	14030.450	10.64	40.69	53.80	53.04	50.49	74.00	-23.51 Peak
8	14030.450	10.64	40.69	53.80	22.23	19.68	54.00	-34.32 Average
9	pp17948.050	14.48	42.37	51.51	47.11	52.45	74.00	-21.55 Peak
10	av17948.050	14.48	42.37	51.51	16.30	21.64	54.00	-32.36 Average

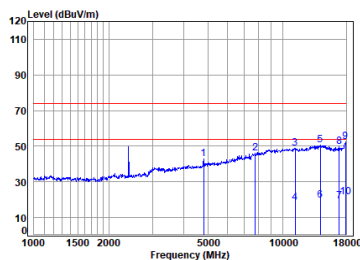
BT_DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL
Job No : 00373AT/00374AT
Mode : 2400 TX RSE
: BT L

Freq	Cable	Loss	Ant	Preamp	Read	Limit	Over	Aux
MHz	dB	dB/m	Factor	Factor	Level	Line	Limit	Factor
					dBuV/m	dBuV/m	dB	
1	4790.245	8.25	32.00	53.14	57.24	44.35	74.00	-29.65 Peak
2	8295.823	9.44	37.17	54.11	54.51	47.01	74.00	-26.99 Peak
3	11204.900	11.61	39.19	53.71	51.94	49.03	74.00	-24.97 Peak
4	11204.900	11.61	39.19	53.71	21.13	18.22	54.00	-35.78 Average
5	14702.910	11.62	40.39	53.54	21.80	20.27	54.00	-33.73 Average
6	14702.910	11.62	40.39	53.54	52.61	51.08	74.00	-22.92 Peak
7	16891.040	14.58	38.62	51.83	17.77	19.14	54.00	-34.86 Average
8	16891.040	14.58	38.62	51.83	48.58	49.95	74.00	-24.05 Peak
9	pp17948.050	14.48	42.37	51.51	46.72	52.06	74.00	-21.94 Peak
10	av17948.050	14.48	42.37	51.51	15.91	21.25	54.00	-32.75 Average

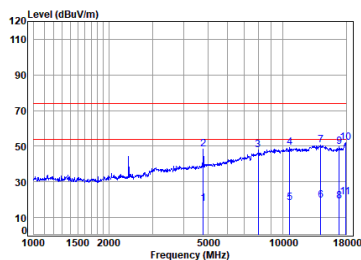
BT_DH5_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL
Job No : 00373AT/00374AT
Mode : 2402 TX RSE
: BT R

Freq	Cable	Loss	Ant	Preamp	Read	Limit	Over	Aux
MHz	dB	dB/m	Factor	Factor	Level	Line	Limit	Factor
					dBuV/m	dBuV/m	dB	
1	4804.110	8.26	31.98	53.15	55.98	43.07	74.00	-30.93 Peak
2	7762.260	9.32	36.32	53.97	54.22	45.89	74.00	-28.11 Peak
3	11204.900	11.61	39.19	53.71	51.81	48.90	74.00	-25.10 Peak
4	11204.900	11.61	39.19	53.71	21.00	18.09	54.00	-35.91 Average
5	14160.710	10.77	40.63	53.82	52.86	50.44	74.00	-23.56 Peak
6	14160.710	10.77	40.63	53.82	22.05	19.63	54.00	-34.37 Average
7	16891.040	14.58	38.62	51.83	17.66	19.03	54.00	-34.97 Average
8	16891.040	14.58	38.62	51.83	48.47	49.84	74.00	-24.16 Peak
9	pp17896.250	14.48	41.55	51.52	47.77	52.28	74.00	-21.72 Peak
10	av17896.250	14.48	41.55	51.52	16.96	21.47	54.00	-32.53 Average

BT_DH5_TX_CH_00_Vertical



Condition: 3m VERTICAL
Job No : 00373AT/00374AT
Mode : 2402 TX RSE
: BT R

Freq	Cable	Loss	Ant	Preamp	Read	Limit	Over	Aux
MHz	dB	dB/m	Factor	Factor	Level	Line	Limit	Factor
					dBuV/m	dBuV/m	dB	
1	4790.245	8.25	32.00	53.14	30.61	17.72	54.00	-36.28 Average
2	4790.245	8.25	32.00	53.14	61.42	46.53	74.00	-25.47 Peak
3	7989.893	9.40	36.92	54.19	55.78	47.91	74.00	-26.09 Peak
4	10667.640	11.40	38.30	53.76	53.33	49.27	74.00	-24.73 Peak
5	10667.640	11.40	38.30	53.76	22.52	18.46	54.00	-35.54 Average
6	14242.800	10.85	40.73	53.78	21.83	19.63	54.00	-34.37 Average
7	14242.800	10.85	40.73	53.78	52.64	50.44	74.00	-23.56 Peak
8	16891.040	14.58	38.62	51.83	17.77	19.14	54.00	-34.86 Average
9	16891.040	14.58	38.62	51.83	48.58	49.95	74.00	-24.05 Peak
10	pp17896.250	14.48	41.55	51.52	47.57	52.08	74.00	-21.92 Peak
11	av17896.250	14.48	41.55	51.52	16.76	21.27	54.00	-32.73 Average

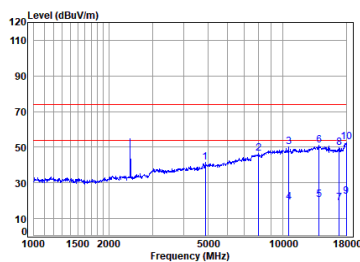
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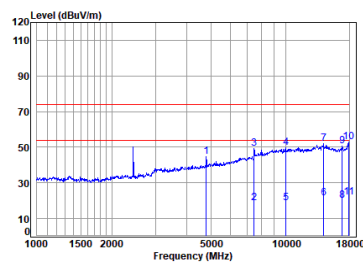
BT_DH5_TX_CH_39_Horizontal



Condition: 3m HORIZONTAL
Job No : 00373AT/00374AT
Mode : 2441 TX RSE
: BT R

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
NHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4888.151	8.29	32.16	53.17	54.12	41.40	74.00	-32.60 Peak	0.00
2	8013.028	9.40	36.90	54.20	54.65	46.75	74.00	-27.25 Peak	0.00
3	10575.540	11.47	38.50	53.81	53.85	50.01	74.00	-23.99 Peak	0.00
4	10575.540	11.47	38.50	53.81	23.04	19.20	54.00	-34.80 Average	0.00
5	13997.930	10.61	40.98	53.90	22.68	20.37	54.00	-33.63 Average	0.00
6	13997.930	10.61	40.98	53.90	53.49	51.18	74.00	-22.82 Peak	0.00
7	16891.040	14.58	38.62	51.83	17.55	18.92	54.00	-35.00 Average	0.00
8	16891.040	14.58	38.62	51.83	48.36	49.73	74.00	-24.27 Peak	0.00
9	av18000.000	14.49	43.20	51.50	16.00	22.19	54.00	-31.81 Average	0.00
10	pp18000.000	14.49	43.20	51.50	46.81	53.00	74.00	-21.00 Peak	0.00

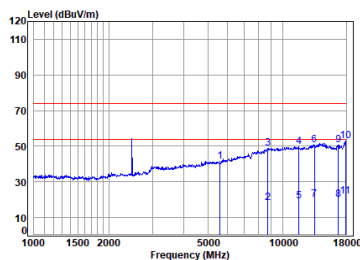
BT_DH5_TX_CH_39_Vertical



Condition: 3m VERTICAL
Job No : 00373AT/00374AT
Mode : 2441 TX RSE
: BT R

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
NHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4790.245	8.25	32.00	53.14	57.74	44.85	74.00	-29.15 Peak	0.00
2	7476.006	9.19	36.90	53.69	57.02	49.42	74.00	-24.58 Peak	0.00
3	10010.420	11.83	38.29	54.09	53.52	49.55	74.00	-24.45 Peak	0.00
4	10010.420	11.83	38.29	54.09	22.71	18.74	54.00	-35.26 Average	0.00
5	14201.690	10.81	40.89	53.80	23.44	21.34	54.00	-32.66 Average	0.00
6	14201.690	10.81	40.89	53.80	54.25	52.15	74.00	-21.85 Peak	0.00
7	16891.040	14.58	38.62	51.83	18.48	19.85	54.00	-34.15 Average	0.00
8	16891.040	14.58	38.62	51.83	49.29	50.66	74.00	-23.34 Peak	0.00
9	pp17948.050	14.48	42.37	51.51	47.36	52.70	74.00	-21.30 Peak	0.00
11	av17948.050	14.48	42.37	51.51	16.55	21.89	54.00	-32.11 Average	0.00

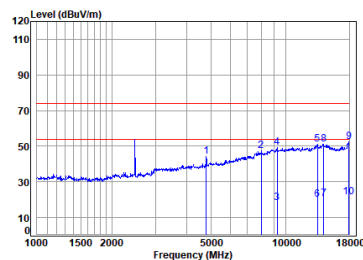
BT_DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL
Job No : 00373AT/00374AT
Mode : 2480 TX RSE
: BT R

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
NHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	5999.412	8.52	33.40	53.26	52.98	41.64	74.00	-32.36 Peak	0.00
2	8713.630	10.16	38.45	53.98	23.55	18.18	54.00	-35.82 Average	0.00
3	8713.630	10.16	38.45	53.98	54.36	48.99	74.00	-25.01 Peak	0.00
4	11633.930	12.08	38.50	53.92	53.12	49.78	74.00	-24.22 Peak	0.00
5	11633.930	12.08	38.50	53.92	22.31	18.97	54.00	-35.03 Average	0.00
6	13404.010	12.11	39.82	54.02	52.90	50.81	74.00	-23.19 Peak	0.00
7	13404.010	12.11	39.82	54.02	22.09	20.00	54.00	-34.00 Average	0.00
8	16745.210	14.86	39.07	52.00	17.96	19.89	54.00	-34.11 Average	0.00
9	16745.210	14.86	39.07	52.00	48.77	50.70	74.00	-23.30 Peak	0.00
10	pp17896.250	14.48	41.55	51.52	48.41	52.92	74.00	-21.00 Peak	0.00
11	av17896.250	14.48	41.55	51.52	17.60	22.11	54.00	-31.89 Average	0.00

BT_DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL
Job No : 00373AT/00374AT
Mode : 2480 TX RSE
: BT R

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
NHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4790.245	8.25	32.00	53.14	56.98	44.89	74.00	-29.91 Peak	0.00
2	7989.093	9.40	36.92	54.19	55.33	47.46	74.00	-26.54 Peak	0.00
3	9232.187	11.49	38.68	53.95	22.20	18.42	54.00	-35.58 Average	0.00
4	9232.187	11.49	38.68	53.95	53.01	49.23	74.00	-24.77 Peak	0.00
5	13404.010	12.11	39.82	54.02	53.02	50.93	74.00	-23.07 Peak	0.00
6	13404.010	12.11	39.82	54.02	22.21	20.12	54.00	-33.88 Average	0.00
7	14201.690	10.81	40.89	53.80	22.52	20.42	54.00	-33.58 Average	0.00
8	14201.690	10.81	40.89	53.80	53.33	51.23	74.00	-22.77 Peak	0.00
9	pp17948.050	14.48	42.37	51.51	47.07	52.41	74.00	-21.59 Peak	0.00
10	av17948.050	14.48	42.37	51.51	16.26	21.60	54.00	-32.40 Average	0.00



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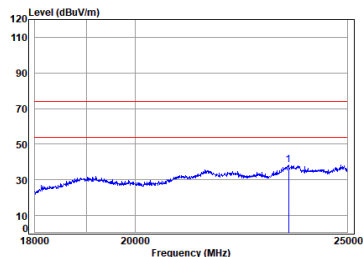
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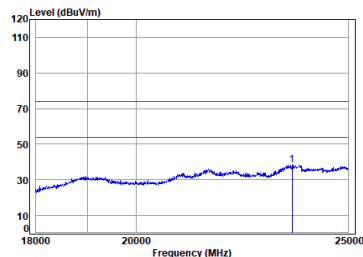
BT_DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL
Job No : 00373AT/00374AT
Mode : 2400 TX RSE
BT L

Freq	Cable Loss Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23502.740	9.18	39.00	45.25	44.81	38.20	74.00	-35.80	Peak	-9.54

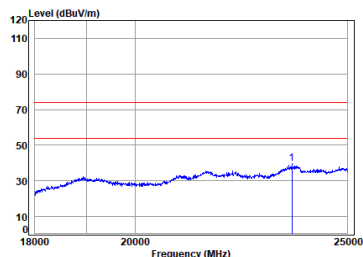
BT_DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL
Job No : 00373AT/00374AT
Mode : 2400 TX RSE
BT L

Freq	Cable Loss Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23572.330	9.19	38.94	45.23	45.19	38.55	74.00	-35.45	Peak	-9.54

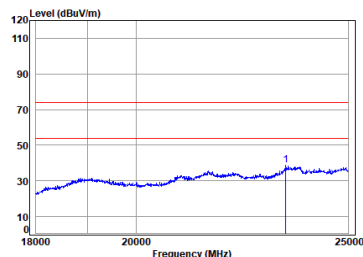
BT_DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL
Job No : 00373AT/00374AT
Mode : 2400 TX RSE
BT R

Freq	Cable Loss Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23587.820	9.19	38.93	45.22	46.12	39.48	74.00	-34.52	Peak	-9.54

BT_DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL
Job No : 00373AT/00374AT
Mode : 2400 TX RSE
BT R

Freq	Cable Loss Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23410.280	9.17	38.50	45.28	45.98	38.83	74.00	-35.17	Peak	-9.54



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2607000373AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2607000373AT

- End of the Report -



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