

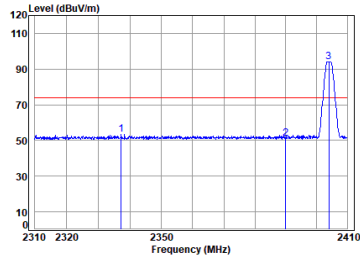
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600004302

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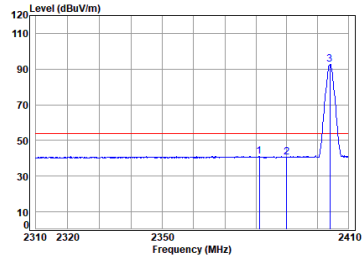
Left BLE_2M_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00043AT\00044AT
Mode : 2404 Band edge
BLE

	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		dB
1	2337.178	4.87	27.17	32.99	54.36	53.41	74.00	-20.59	Peak		0.00
2	2390.000	4.86	27.12	32.96	51.96	50.98	74.00	-23.02	Peak		0.00
3 pp	2404.000	4.86	27.13	32.95	95.12	94.16	74.00	20.16	Peak		0.00

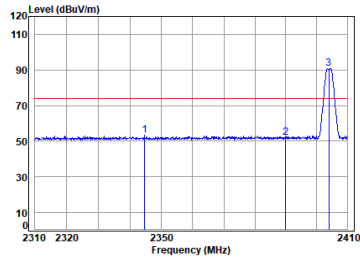
Left BLE_2M_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00043AT\00044AT
Mode : 2404 Band edge
BLE

	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		dB
1	2381.067	4.86	27.14	32.97	42.09	41.12	54.00	-12.88	Average		0.00
2	2390.000	4.86	27.12	32.96	41.56	40.58	54.00	-13.42	Average		0.00
3 pp	2404.000	4.86	27.13	32.95	93.69	92.73	54.00	38.73	Average		0.00

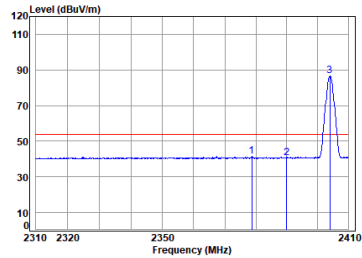
Left BLE_2M_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00043AT\00044AT
Mode : 2404 Band edge
BLE

	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		dB
1	2344.618	4.87	27.19	32.99	54.24	53.31	74.00	-20.69	Peak		0.00
2	2390.000	4.86	27.12	32.96	53.10	52.12	74.00	-21.88	Peak		0.00
3 pp	2404.000	4.86	27.13	32.95	91.70	90.74	74.00	16.74	Peak		0.00

Left BLE_2M_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00043AT\00044AT
Mode : 2404 Band edge
BLE

	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		dB
1	2378.646	4.86	27.14	32.97	42.40	41.43	54.00	-12.57	Average		0.00
2	2390.000	4.86	27.12	32.96	41.59	40.61	54.00	-13.39	Average		0.00
3 pp	2404.000	4.86	27.13	32.95	87.69	86.73	54.00	32.73	Average		0.00



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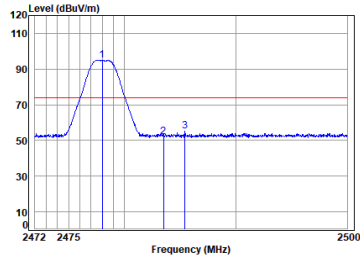
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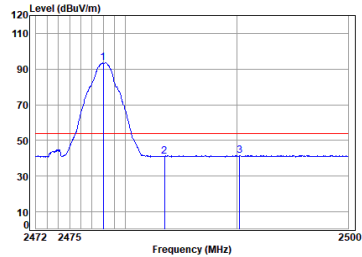
Left BLE_2M_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00043AT\00044AT
Mode : 2478 Band edge
: BLE

	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		dB
1	2478.000	4.84	27.67	32.91	95.42	95.02	74.00	21.02	Peak	0.00	
2	2483.500	4.84	27.70	32.91	52.45	52.08	74.00	-21.92	Peak	0.00	
3	2485.429	4.84	27.71	32.91	55.56	55.20	74.00	-18.80	Peak	0.00	

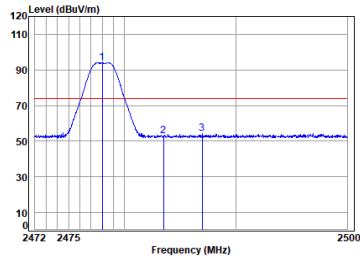
Left BLE_2M_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00043AT\00044AT
Mode : 2478 Band edge
: BLE

	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		dB
1	2478.000	4.84	27.67	32.91	93.84	93.44	54.00	39.44	Average	0.00	
2	2483.500	4.84	27.70	32.91	41.48	41.11	54.00	-12.89	Average	0.00	
3	2490.248	4.84	27.74	32.91	42.07	41.74	54.00	-12.26	Average	0.00	

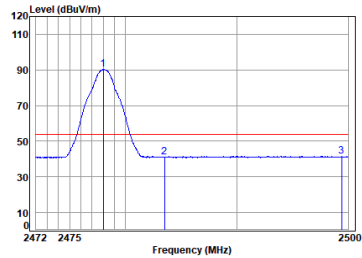
Left BLE_2M_TX_CH_38_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00043AT\00044AT
Mode : 2478 Band edge
: BLE

	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		dB
1	2478.000	4.84	27.67	32.91	94.49	94.09	74.00	20.09	Peak	0.00	
2	2483.500	4.84	27.70	32.91	53.18	52.81	74.00	-21.19	Peak	0.00	
3	2486.969	4.84	27.72	32.91	54.71	54.36	74.00	-19.64	Peak	0.00	

Left BLE_2M_TX_CH_38_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00043AT\00044AT
Mode : 2478 Band edge
: BLE

	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		dB
1	2478.000	4.84	27.67	32.91	90.72	90.32	54.00	36.32	Average	0.00	
2	2483.500	4.84	27.70	32.91	41.43	41.06	54.00	-12.94	Average	0.00	
3	2499.409	4.84	27.80	32.90	41.90	41.64	54.00	-12.36	Average	0.00	



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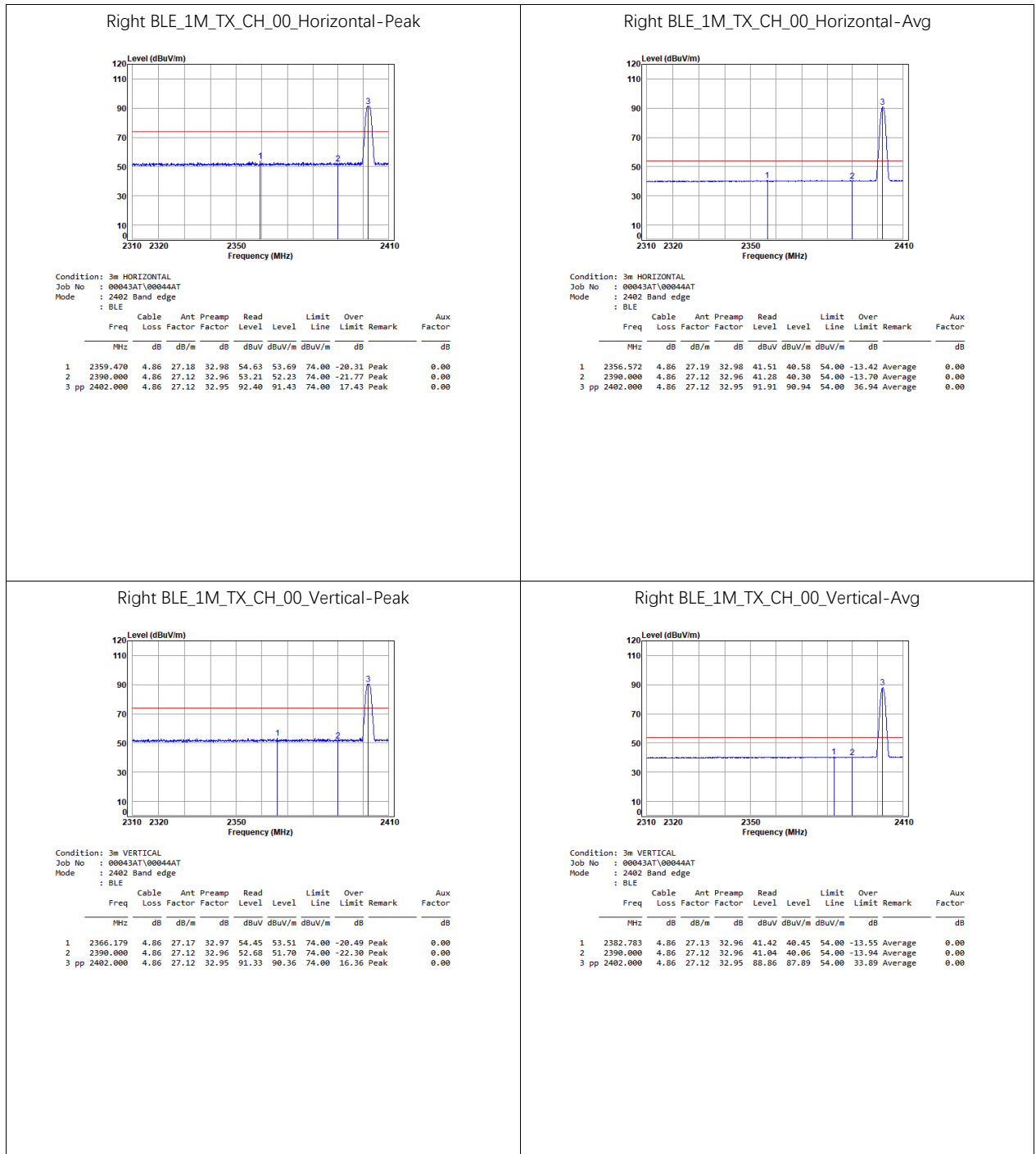
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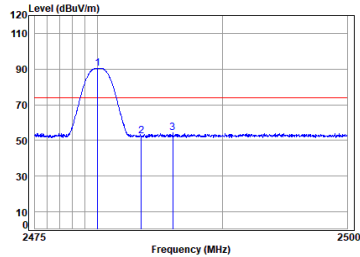
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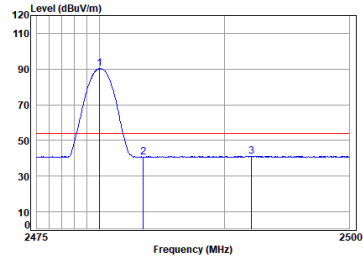
Right BLE_1M_TX_CH_39_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00043AT\00044AT
Mode : 2480 Band edge
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 pp 2480.000	4.84	27.68	32.91	90.69	90.30	74.00	16.30	Peak	0.00
2 2483.500	4.84	27.70	32.91	52.77	52.40	74.00	-21.60	Peak	0.00
3 2485.994	4.84	27.72	32.91	54.74	54.39	74.00	-19.61	Peak	0.00

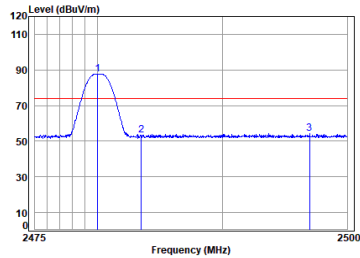
Right BLE_1M_TX_CH_39_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00043AT\00044AT
Mode : 2480 Band edge
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 pp 2480.000	4.84	27.68	32.91	90.79	90.40	54.00	36.40	Average	0.00
2 2483.500	4.84	27.70	32.91	41.15	40.78	54.00	-13.22	Average	0.00
3 2492.173	4.84	27.75	32.90	41.60	41.29	54.00	-12.71	Average	0.00

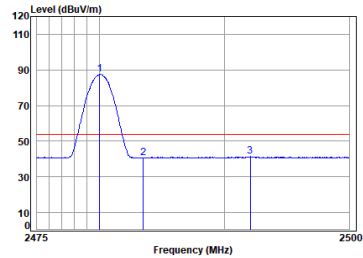
Right BLE_1M_TX_CH_39_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00043AT\00044AT
Mode : 2480 Band edge
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 pp 2480.000	4.84	27.68	32.91	88.07	87.68	74.00	13.68	Peak	0.00
2 2483.500	4.84	27.70	32.91	53.78	53.41	74.00	-20.59	Peak	0.00
3 2496.987	4.84	27.78	32.90	54.39	54.11	74.00	-19.89	Peak	0.00

Right BLE_1M_TX_CH_39_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00043AT\00044AT
Mode : 2480 Band edge
BLE

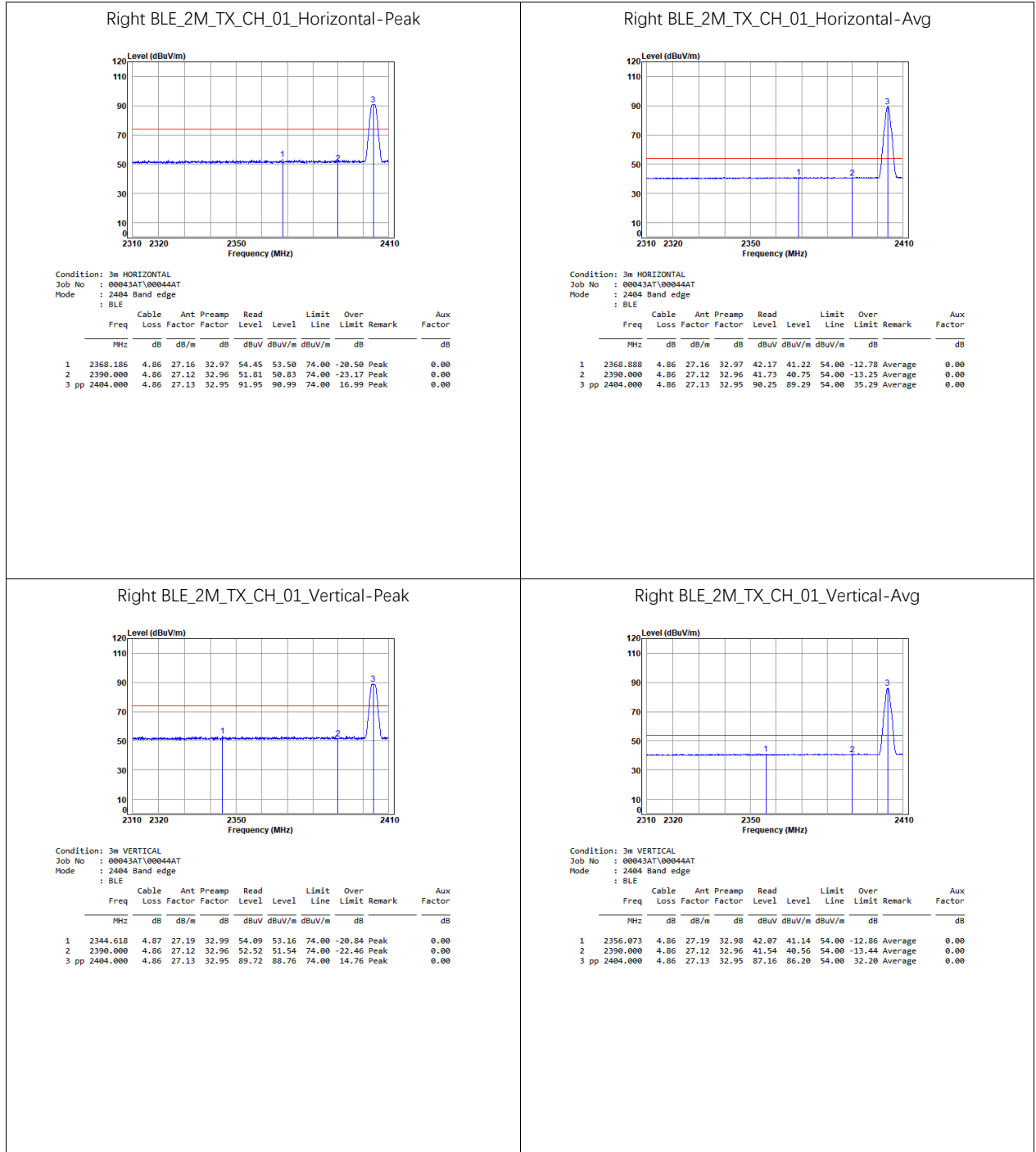
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2480.000	4.84	27.68	32.91	87.85	87.46	54.00	33.46	Average	0.00
2 2483.500	4.84	27.70	32.91	41.04	40.67	54.00	-13.33	Average	0.00
3 2492.048	4.84	27.75	32.90	41.60	41.29	54.00	-12.71	Average	0.00

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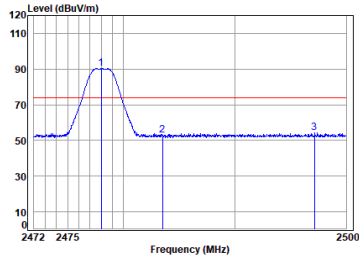
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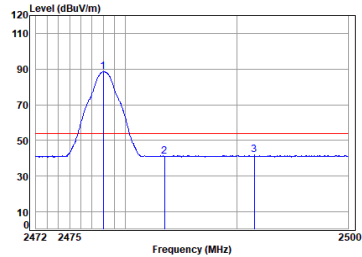
Right BLE_2M_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL
Job No : 00043AT\00044AT
Mode : 2478 Band edge
BLE

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2478.000	4.84	27.67	32.91	90.76	90.36	74.00	16.36	Peak	0.00	
2	2483.500	4.84	27.70	32.91	53.31	52.94	74.00	-21.06	Peak	0.00	
3	2497.158	4.84	27.78	32.90	54.48	54.20	74.00	-19.80	Peak	0.00	

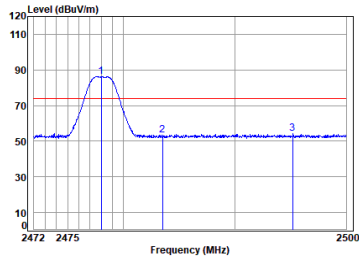
Right BLE_2M_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL
Job No : 00043AT\00044AT
Mode : 2478 Band edge
BLE

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2478.000	4.84	27.67	32.91	88.88	88.48	54.00	34.48	Average	0.00	
2	2483.500	4.84	27.70	32.91	41.58	41.21	54.00	-12.79	Average	0.00	
3	2491.567	4.84	27.75	32.90	42.23	41.92	54.00	-12.08	Average	0.00	

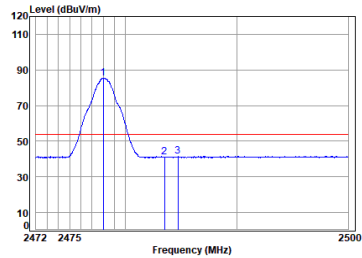
Right BLE_2M_TX_CH_38_Vertical-Peak



Condition: 3m VERTICAL
Job No : 00043AT\00044AT
Mode : 2478 Band edge
BLE

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2478.000	4.84	27.67	32.91	86.71	86.31	74.00	12.31	Peak	0.00	
2	2483.500	4.84	27.70	32.91	53.54	53.17	74.00	-20.83	Peak	0.00	
3	2495.198	4.84	27.77	32.90	54.40	54.11	74.00	-19.89	Peak	0.00	

Right BLE_2M_TX_CH_38_Vertical-Avg



Condition: 3m VERTICAL
Job No : 00043AT\00044AT
Mode : 2478 Band edge
BLE

	Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
	MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	pp 2478.000	4.84	27.67	32.91	85.82	85.42	54.00	31.42	Average	0.00	
2	2483.500	4.84	27.70	32.91	41.62	41.25	54.00	-12.75	Average	0.00	
3	2484.701	4.84	27.71	32.91	42.03	41.67	54.00	-12.33	Average	0.00	



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7.3 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: 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
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).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C Humidity: 51.9 % RH Atmospheric Pressure: 1000 mbar



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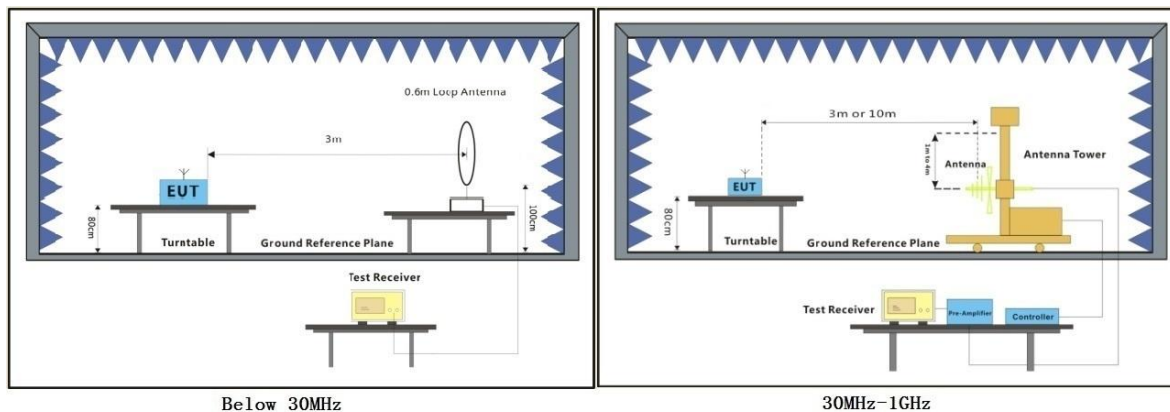
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7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(Left buds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	07	TX mode(Left buds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	08	Charge + TX mode(Left buds 1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	09	Charge + TX mode(Left buds 2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	10	TX mode(Right buds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	11	TX mode(Right buds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	12	Charge + TX mode(Right buds 1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	13	Charge + TX mode(Right buds 2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



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7.3.4 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 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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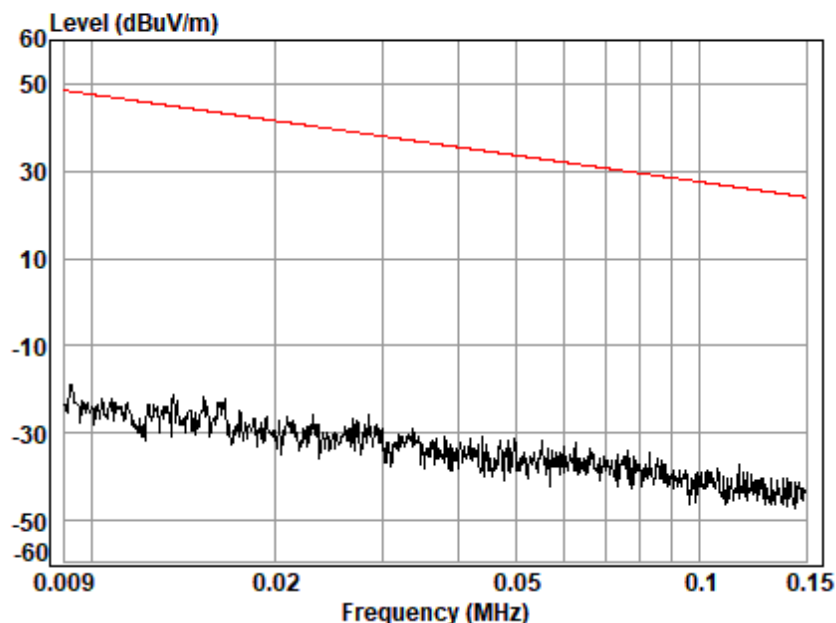
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 : coaxial



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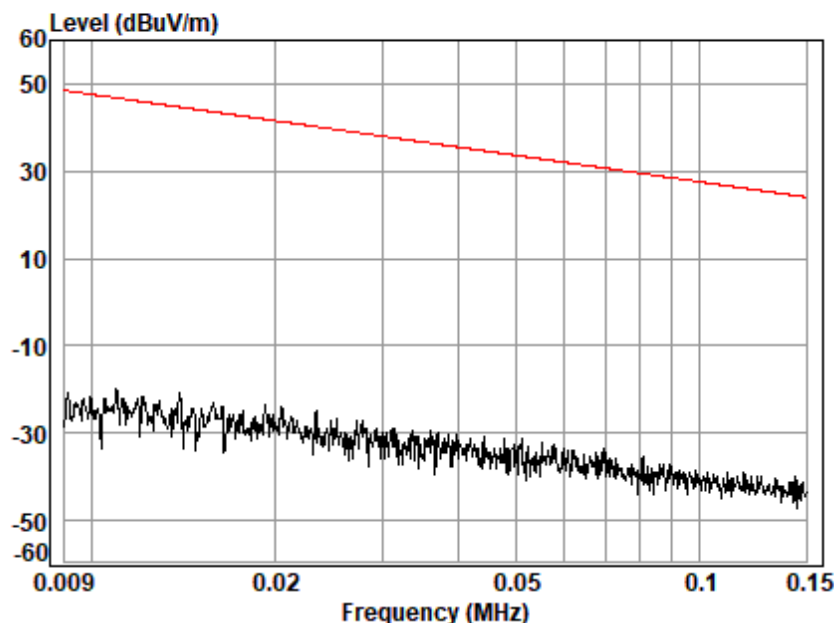
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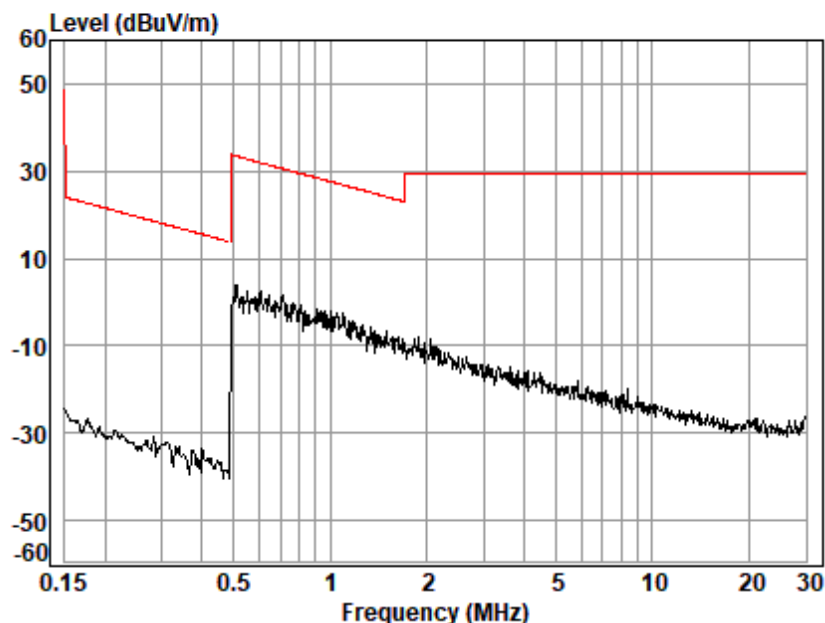
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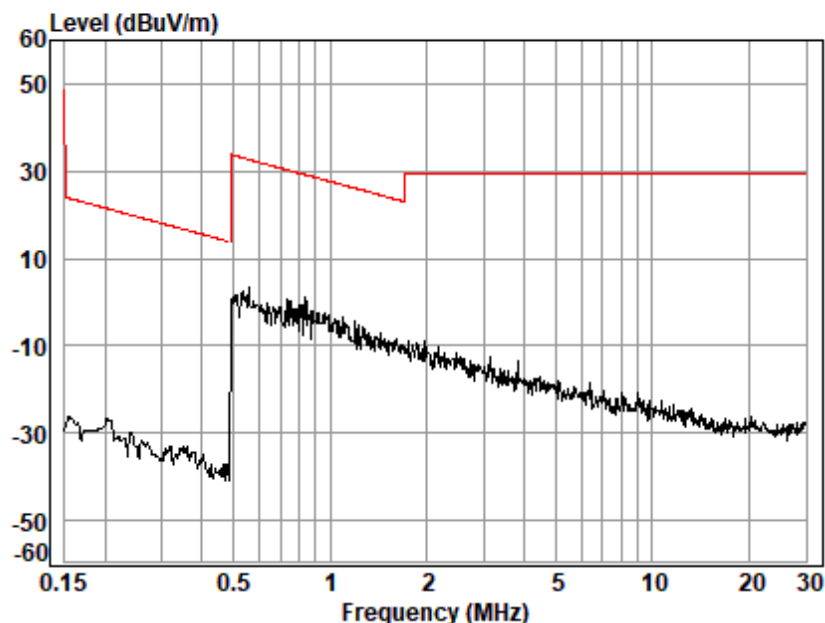
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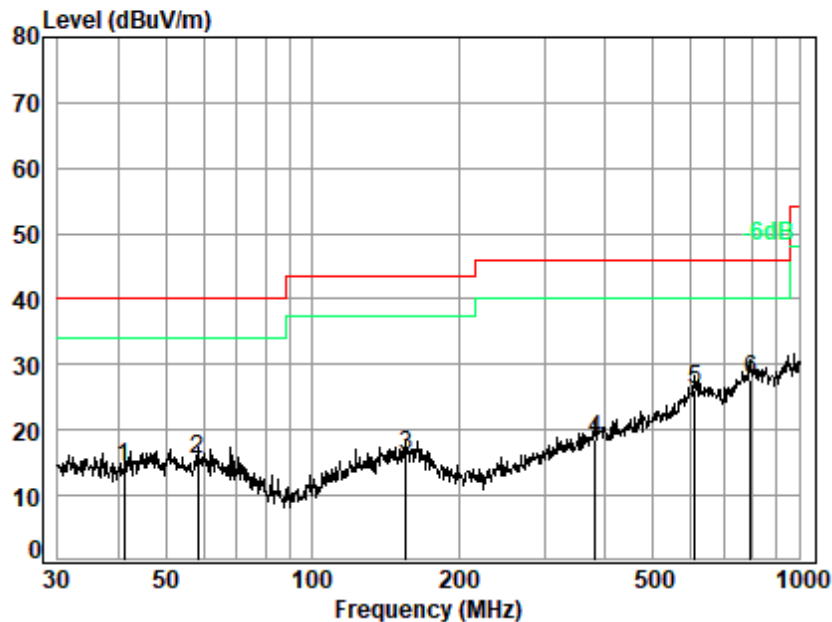
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Test Mode: 06



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00043AT/00044AT

Mode : 06

		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	41.13	0.31	17.37	26.11	22.70	14.27	40.00	-25.73	QP
2	58.20	0.62	17.44	26.10	23.53	15.49	40.00	-24.51	QP
3	155.91	1.25	17.44	25.62	23.18	16.25	43.50	-27.25	QP
4	381.25	1.52	19.39	25.86	23.44	18.49	46.00	-27.51	QP
5	612.06	3.33	24.20	26.56	25.33	26.30	46.00	-19.70	QP
6	796.18	3.38	26.87	26.50	23.94	27.69	46.00	-18.31	QP



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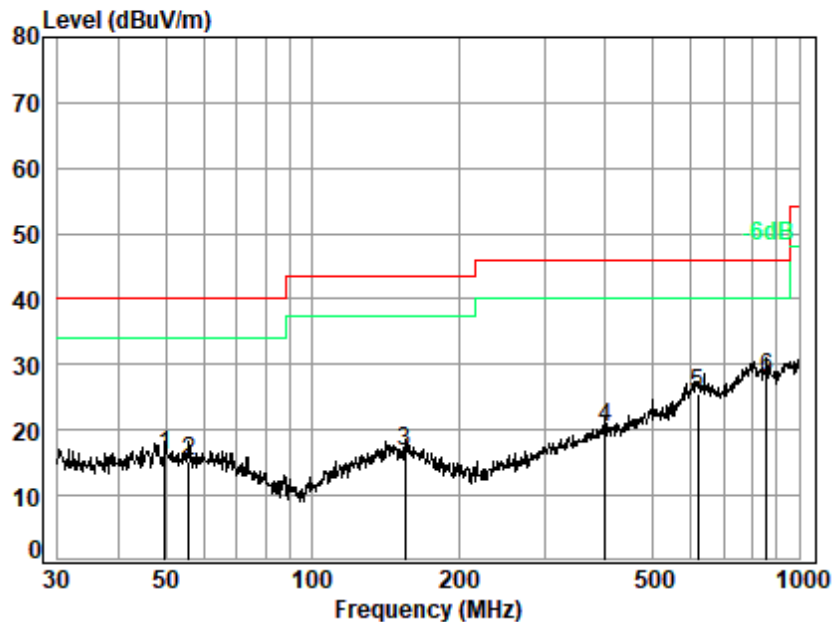
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Site : chamber

Condition: 3m VERTICAL

Job No : 00043AT/00044AT

Mode : 06

		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	49.71	0.81	17.78	26.10	23.74	16.23	40.00	-23.77	QP
2	55.80	0.38	17.62	26.10	23.31	15.21	40.00	-24.79	QP
3	155.36	1.26	17.44	25.62	23.60	16.68	43.50	-26.82	QP
4	400.43	1.55	19.71	25.99	25.01	20.28	46.00	-25.72	QP
5	620.71	3.19	24.11	26.55	24.74	25.49	46.00	-20.51	QP
6	857.02	2.82	26.81	26.44	24.82	28.01	46.00	-17.99	QP



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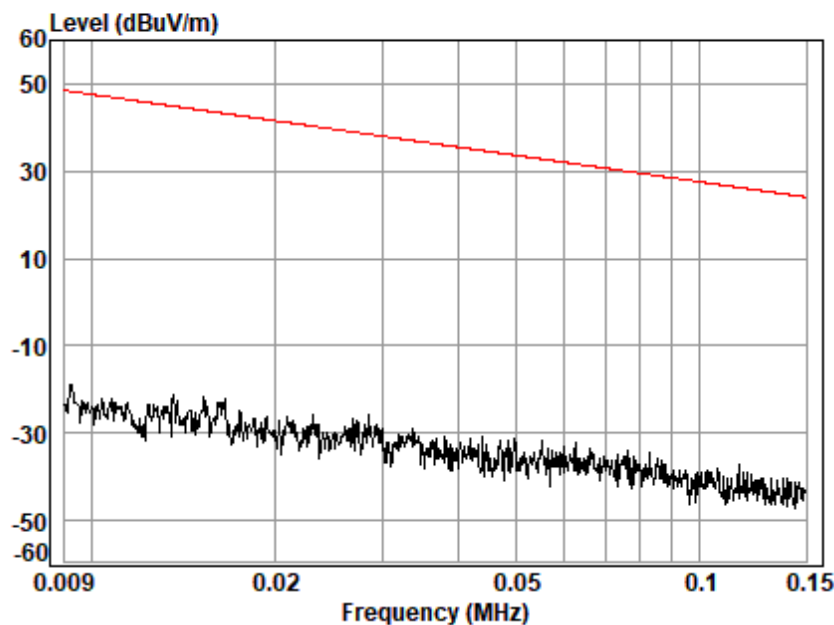
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Test Mode: 10



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Condition: 3m
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 : coaxial



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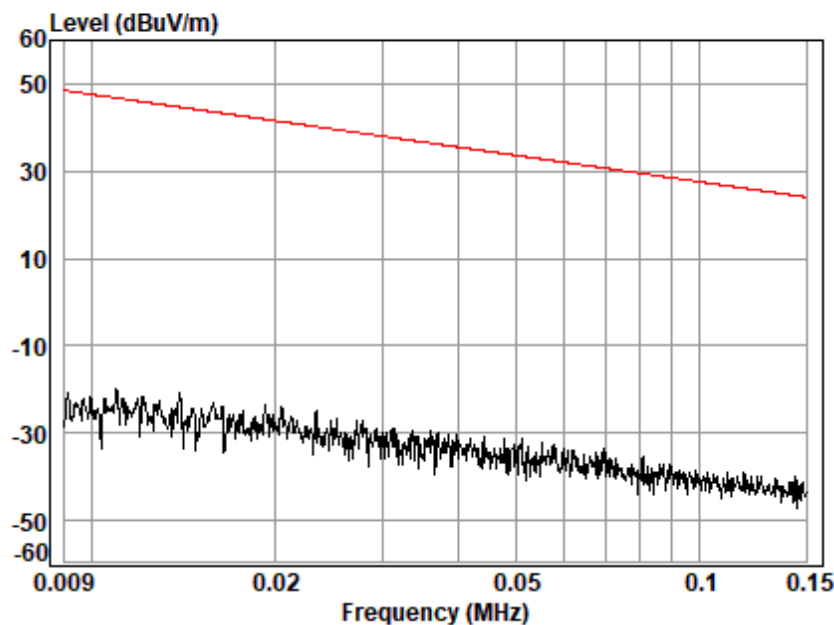
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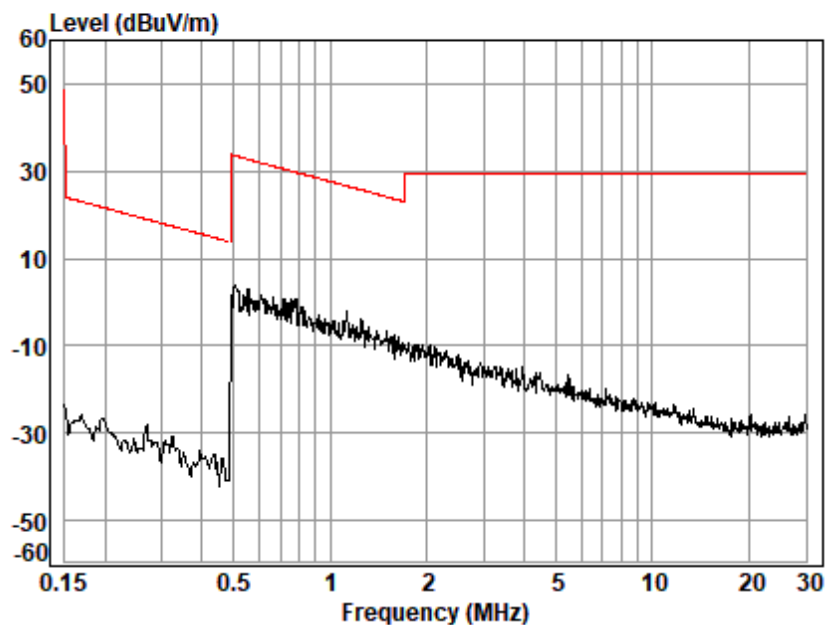
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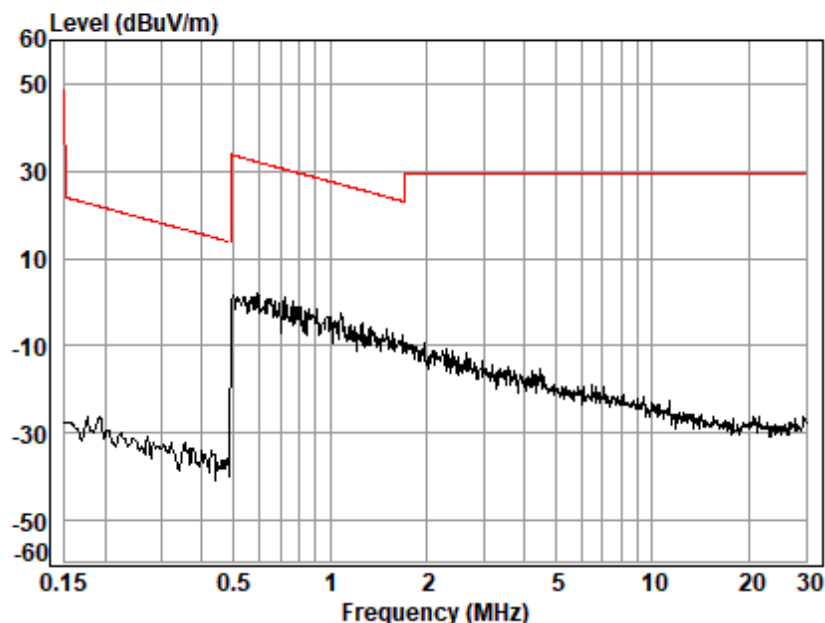
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Test Mode: 10



Site : chamber
Condition: 3m
Job No. : 00043AT
Test Mode: 10
 : coplanar



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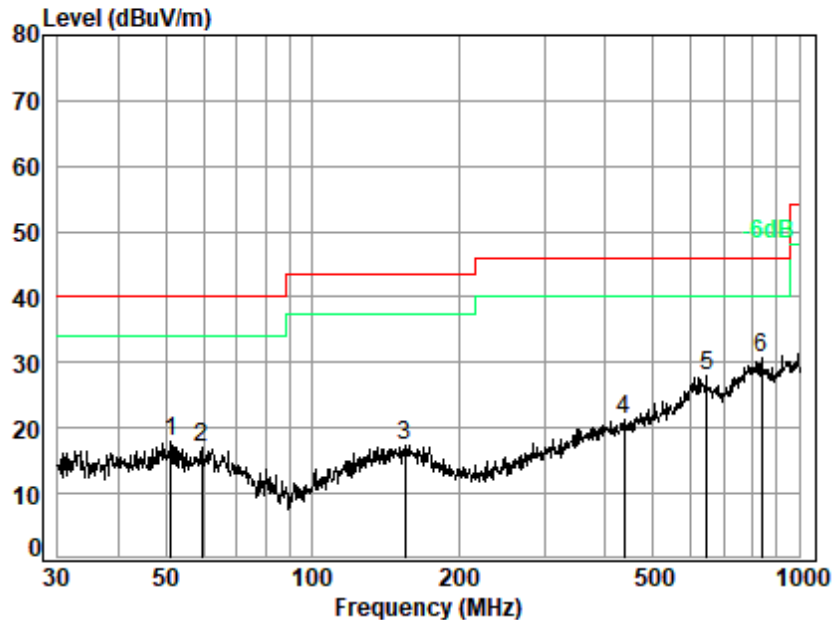
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Test Mode: 10



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00043AT/00044AT

Mode : 10

		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	51.12	0.70	17.79	26.10	25.47	17.86	40.00	-22.14	QP
2	59.23	0.72	17.35	26.10	25.02	16.99	40.00	-23.01	QP
3	154.82	1.26	17.44	25.62	24.37	17.45	43.50	-26.05	QP
4	437.12	1.10	20.77	26.23	25.64	21.28	46.00	-24.72	QP
5	645.12	2.80	24.47	26.55	27.15	27.87	46.00	-18.13	QP
6	839.18	3.08	26.75	26.46	27.29	30.66	46.00	-15.34	QP



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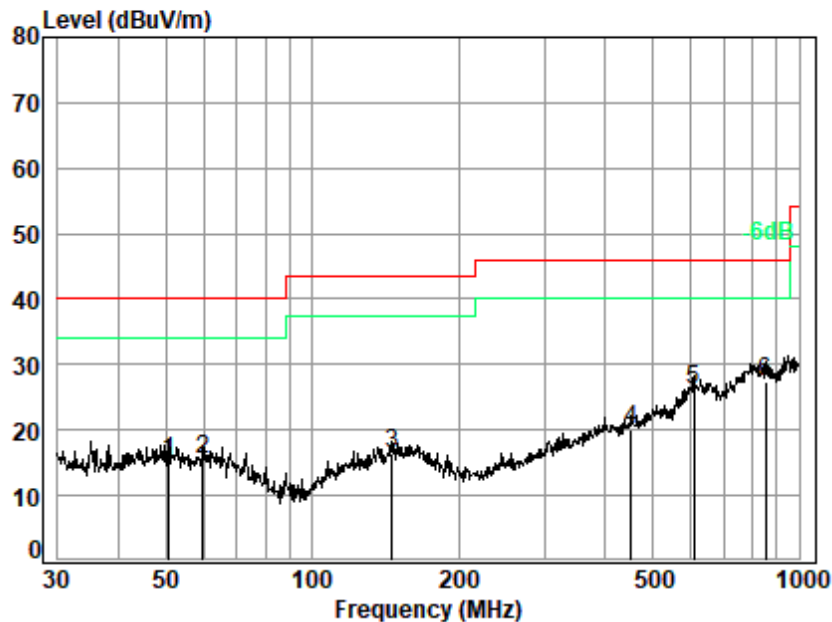
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Test Mode: 10



Site : chamber
Condition: 3m VERTICAL
Job No : 00043AT/00044AT
Mode : 10

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	50.76	0.74	17.79	26.10	22.87	15.30	40.00	-24.70	QP
2	59.44	0.74	17.33	26.10	23.49	15.46	40.00	-24.54	QP
3	145.86	1.33	17.28	25.66	23.39	16.34	43.50	-27.16	QP
4	451.14	0.96	21.15	26.32	24.30	20.09	46.00	-25.91	QP
5	607.79	3.40	24.21	26.56	25.14	26.19	46.00	-19.81	QP
6	854.02	2.89	26.83	26.44	24.04	27.32	46.00	-18.68	QP



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7.4 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: 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).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 50.2 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(Left buds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	07	TX mode(Left buds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	08	Charge + TX mode(Left buds 1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	09	Charge + TX mode(Left buds 2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	10	TX mode(Right buds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	11	TX mode(Right buds 2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	12	Charge + TX mode(Right buds 1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	13	Charge + TX mode(Right buds 2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.



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