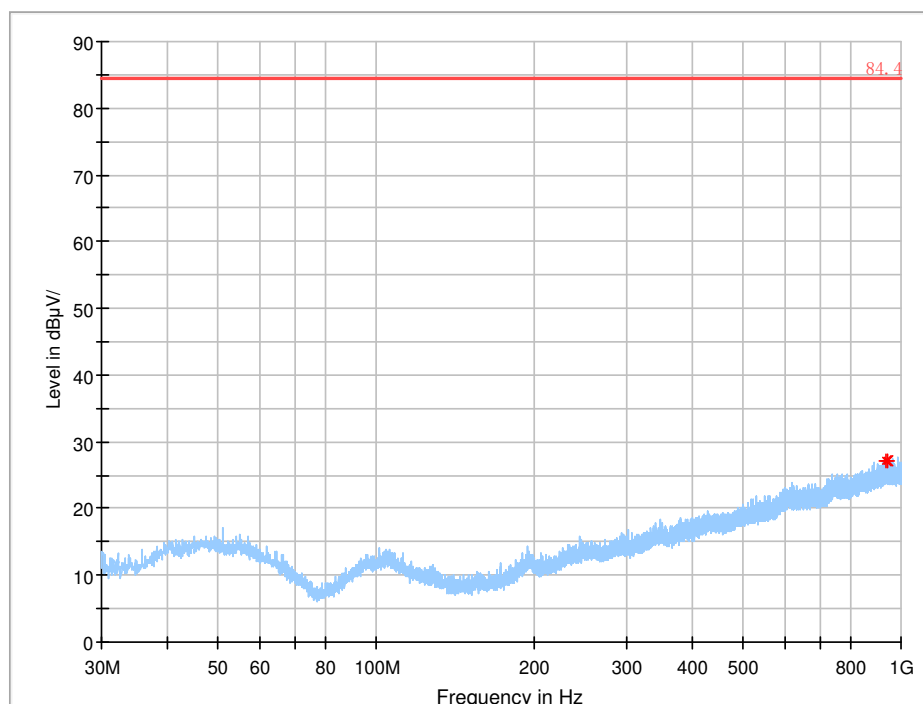


7.3 Measurement result

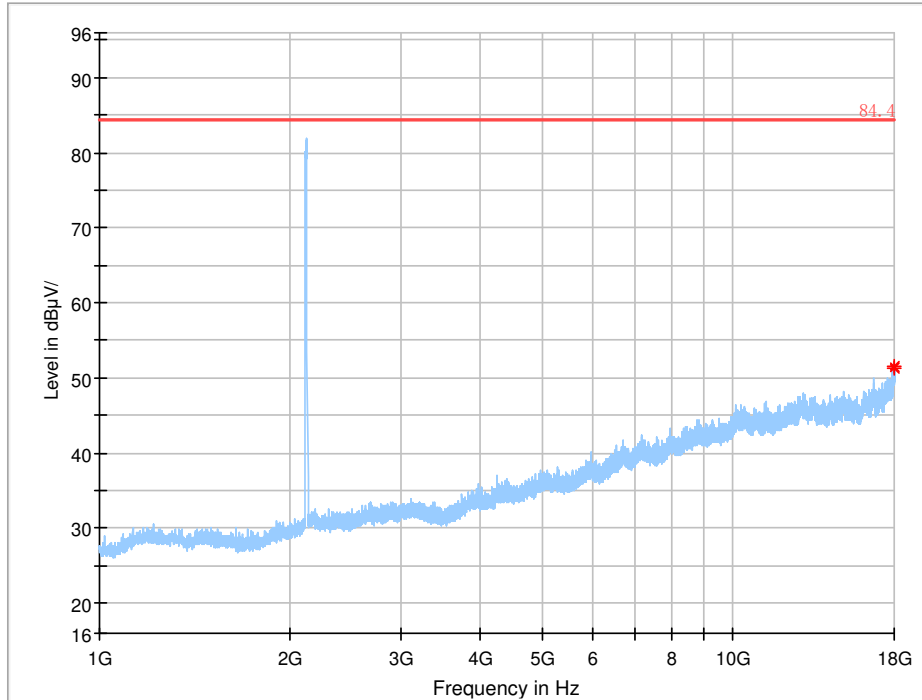
Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
LTE-1C	B	1 Carrier	20MHz	64QAM
LTE-1C	T	1 Carrier	20MHz	64QAM

Polarization	Frequency (MHz)	Emission level PK (dB μ V/m)	Limits (dB μ V/m)	Margin (dB μ V/m)
Vertical	939.084000	27.07	84.40	57.33
Horizontal	941.994000	27.05	84.40	57.35
Vertical	17986.200000	51.30	84.40	33.10
Horizontal	17988.600000	51.60	84.40	32.80
Vertical	26170.625000	48.29	84.40	36.11
Horizontal	26179.656250	47.97	84.40	36.43

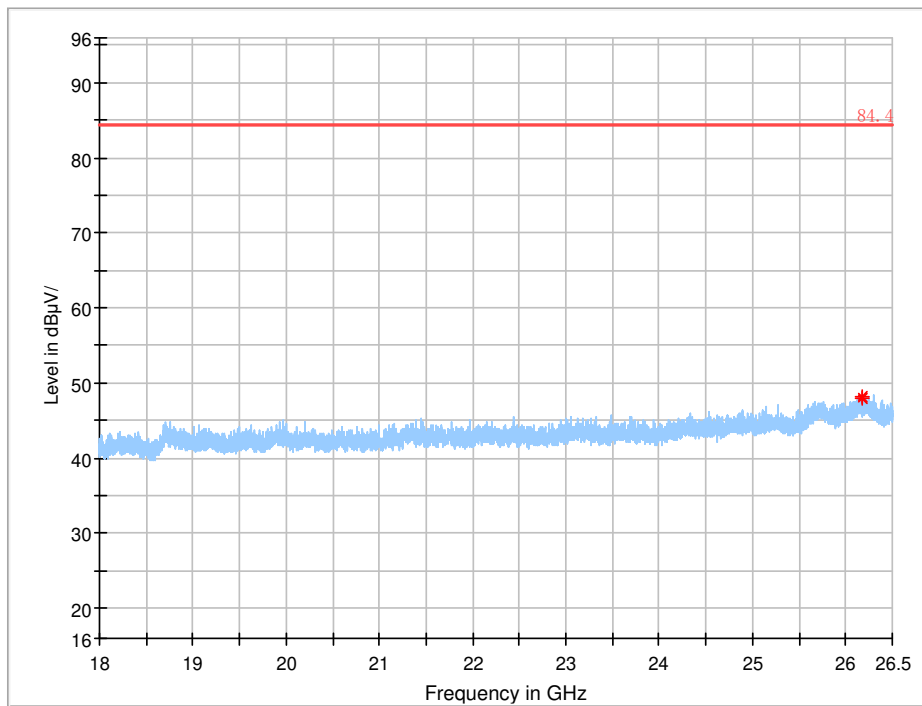
30-1000MHz, Horizontal and Vertical



1-18GHz, Horizontal and Vertical



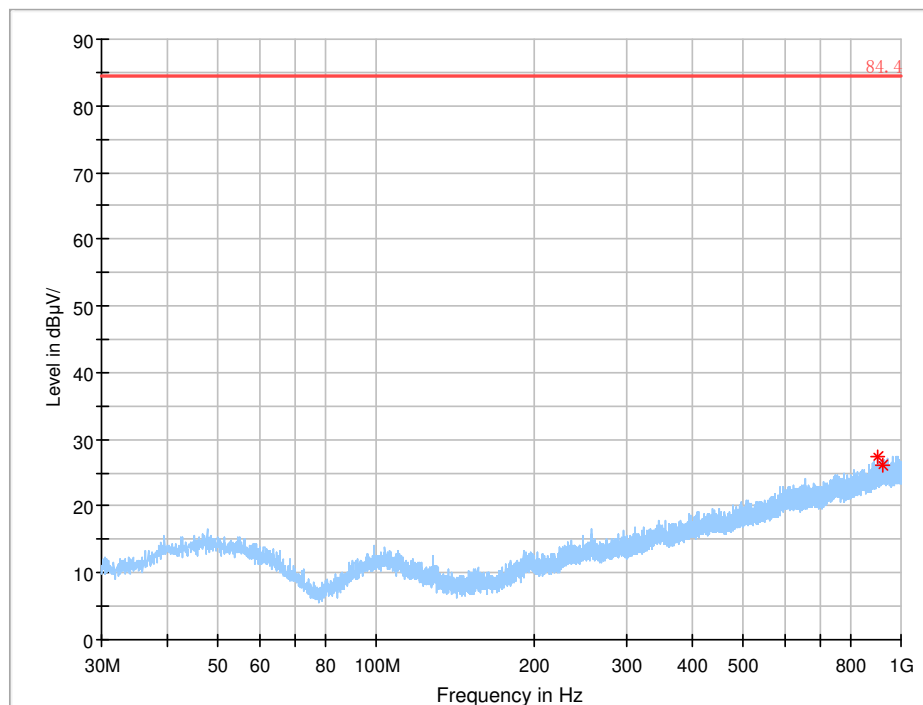
18-26.5GHz, Horizontal and Vertical



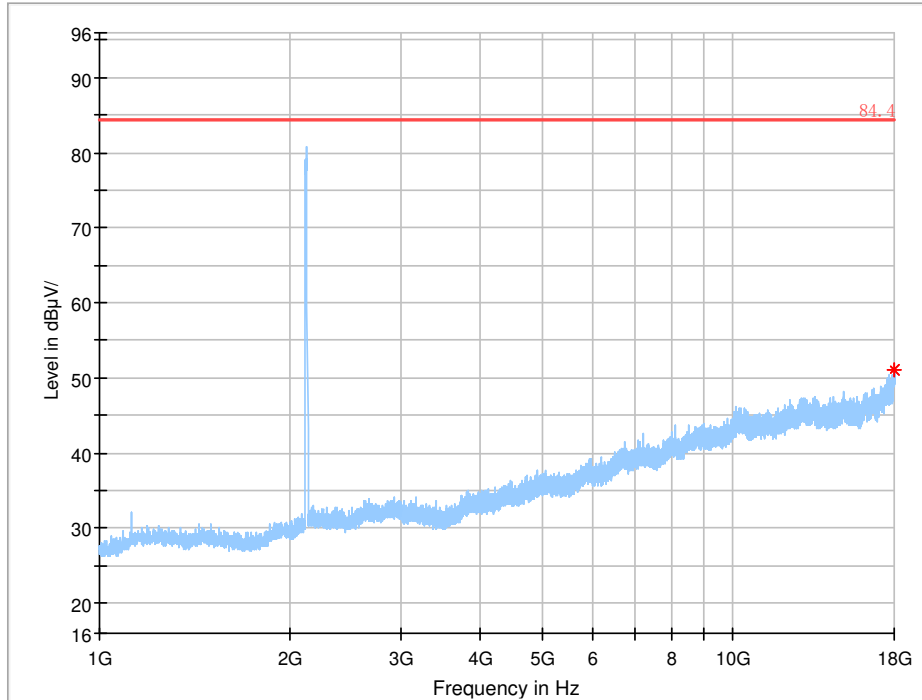
Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
LTE-6C	M	6 Carrier	10MHz	64QAM

Polarization	Frequency (MHz)	Emission level PK (dBμV/m)	Limits (dBμV/m)	Margin (dBμV/m)
Vertical	904.018500	27.50	84.40	56.90
Horizontal	921.381500	26.06	84.40	58.34
Vertical	17955.000000	50.99	84.40	33.41
Horizontal	17986.200000	51.00	84.40	33.40
Vertical	26107.406250	47.85	84.40	36.55
Horizontal	26168.500000	48.07	84.40	36.33

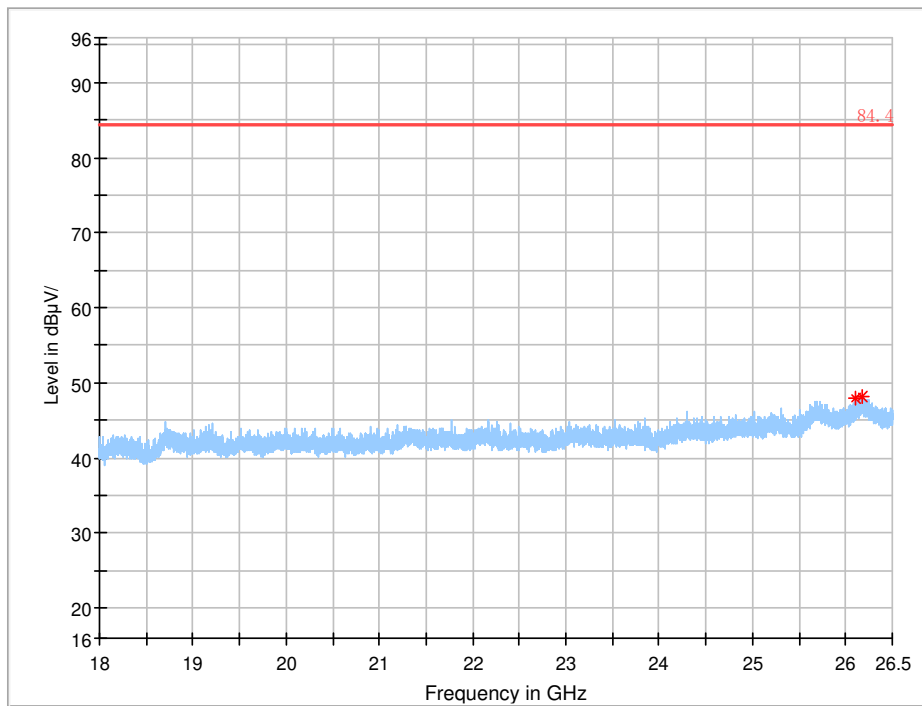
30-1000MHz, Horizontal and Vertical



1-18GHz, Horizontal and Vertical



18-26.5GHz, Horizontal and Vertical

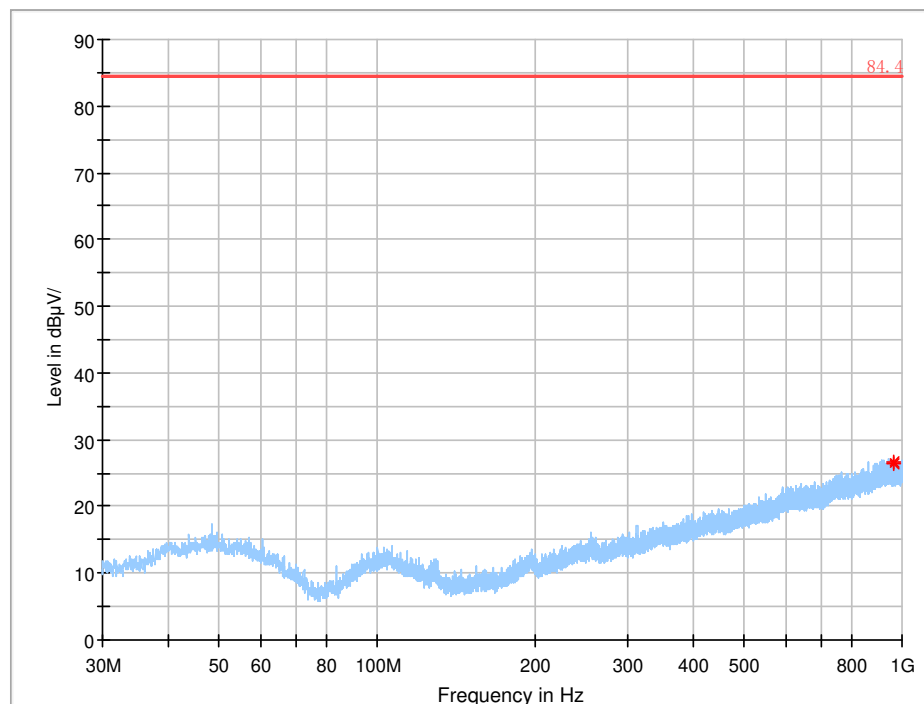


TEST REPORT

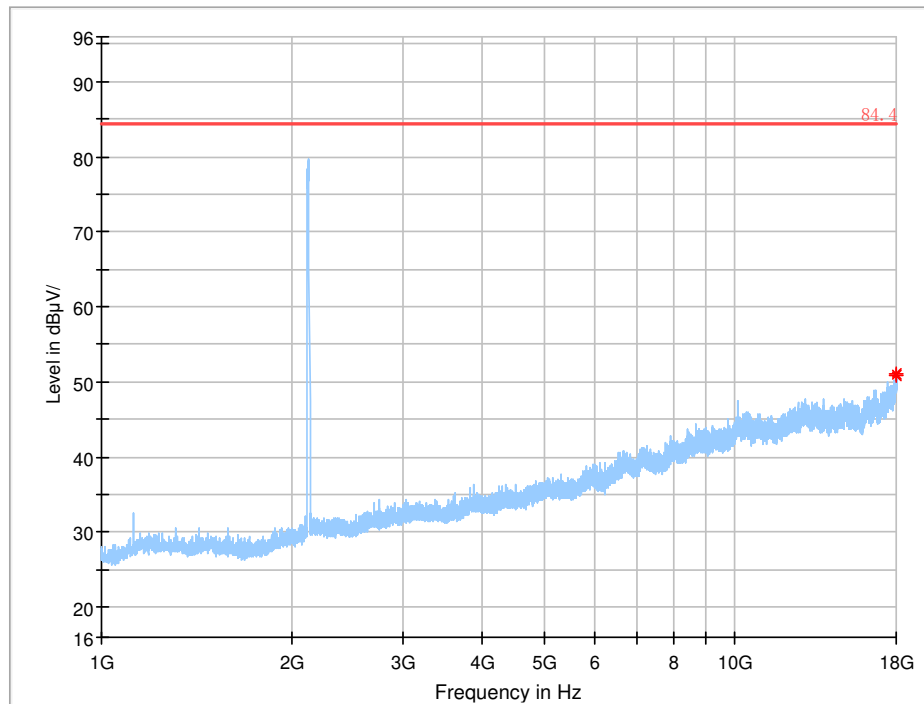
Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
NR-1C	B	1 Carrier	20MHz	QPSK
NR-1C	T	1 Carrier	20MHz	QPSK

Polarization	Frequency (MHz)	Emission level PK (dB μ V/m)	Limits (dB μ V/m)	Margin (dB μ V/m)
Vertical	961.345500	26.35	84.40	58.05
Horizontal	965.225500	26.74	84.40	57.66
Vertical	17997.000000	50.89	84.40	33.51
Horizontal	17998.800000	51.13	84.40	33.27
Vertical	26232.781250	48.08	84.40	36.32
Horizontal	26248.718750	48.15	84.40	36.25

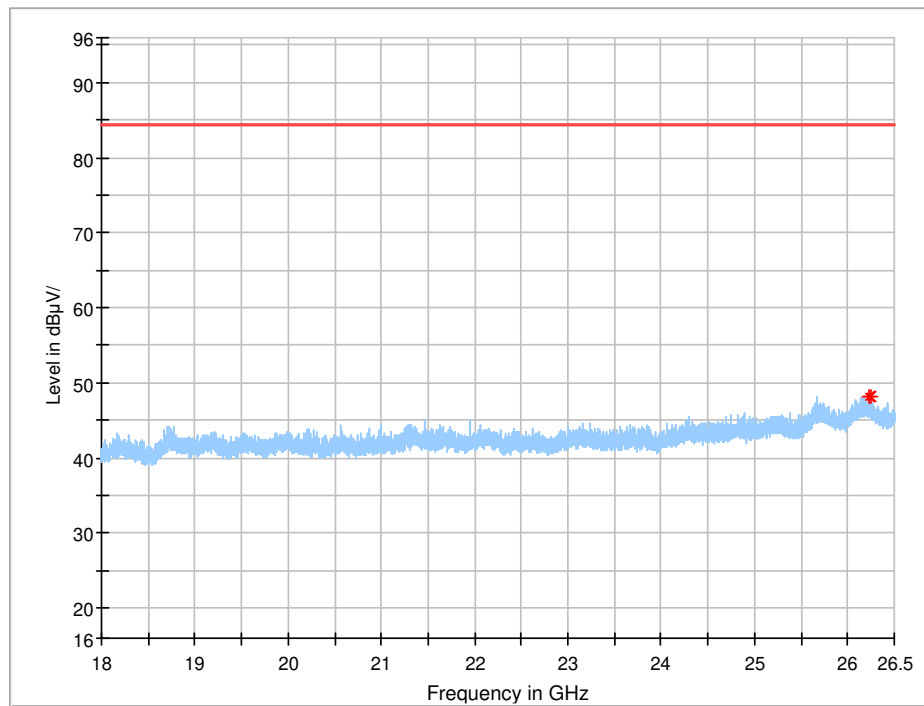
30-1000MHz, Horizontal and Vertical



1-18GHz, Horizontal and Vertical



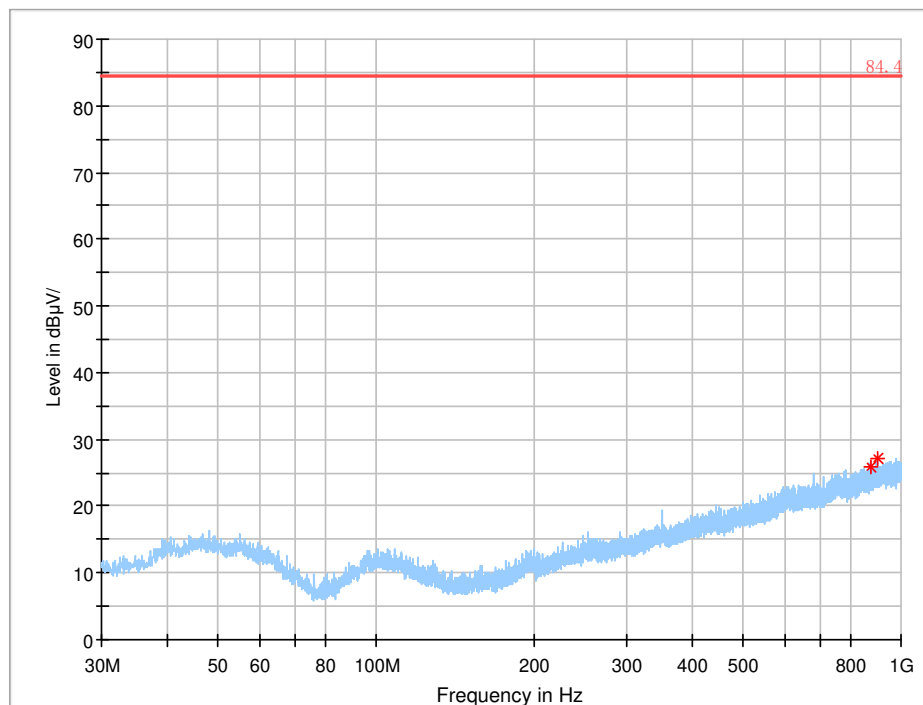
18-26.5GHz, Horizontal and Vertical



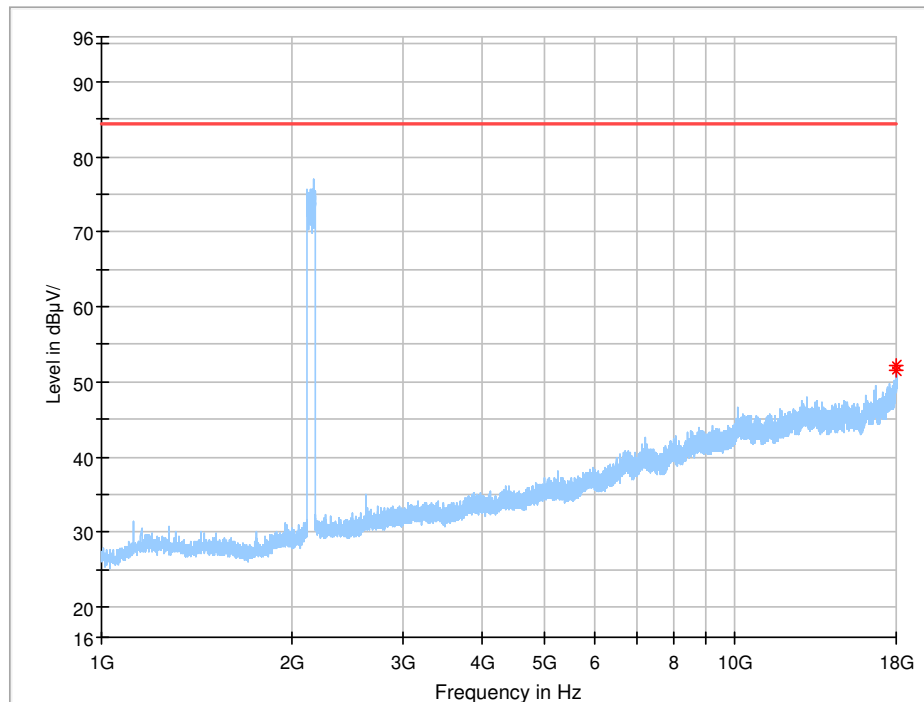
Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
NR-6C	B	1 Carrier	10MHz	QPSK

Polarization	Frequency (MHz)	Emission level PK (dBμV/m)	Limits (dBμV/m)	Margin (dBμV/m)
Vertical	874.676000	25.80	84.40	58.60
Horizontal	898.489500	27.23	84.40	57.17
Vertical	17968.200000	51.64	84.40	32.76
Horizontal	17985.000000	52.23	84.40	32.17
Vertical	26178.593750	47.99	84.40	36.41
Horizontal	26197.718750	47.99	84.40	36.41

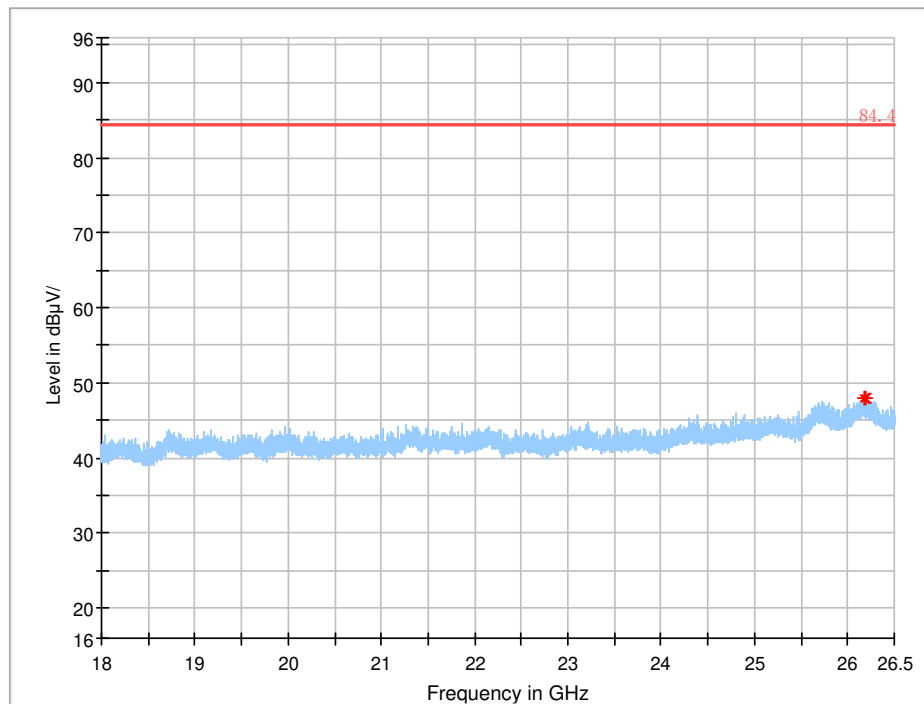
30-1000MHz, Horizontal and Vertical



1-18GHz, Horizontal and Vertical



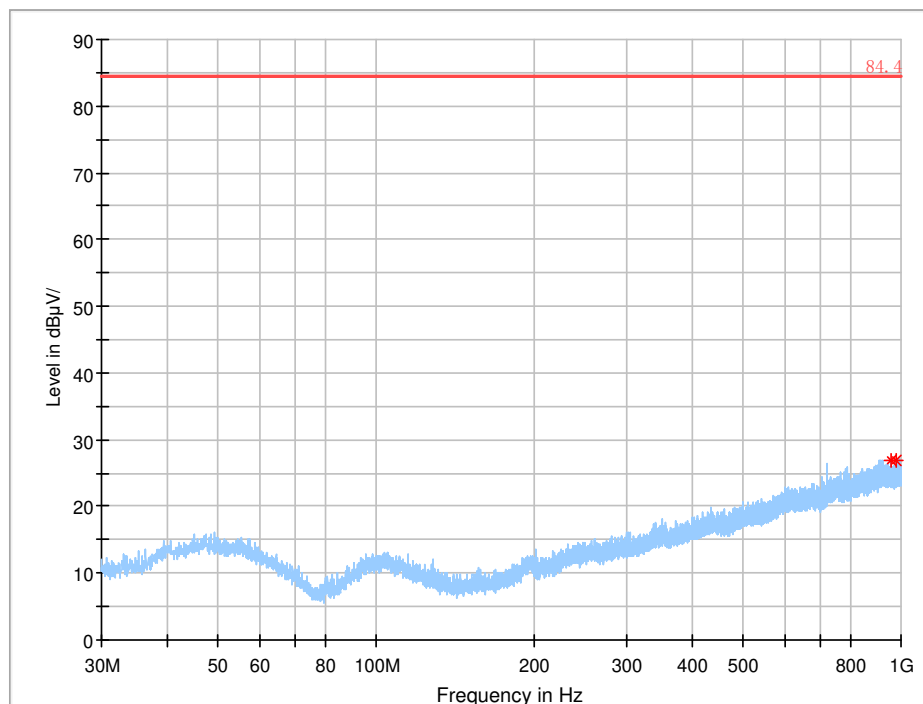
18-26.5GHz, Horizontal and Vertical



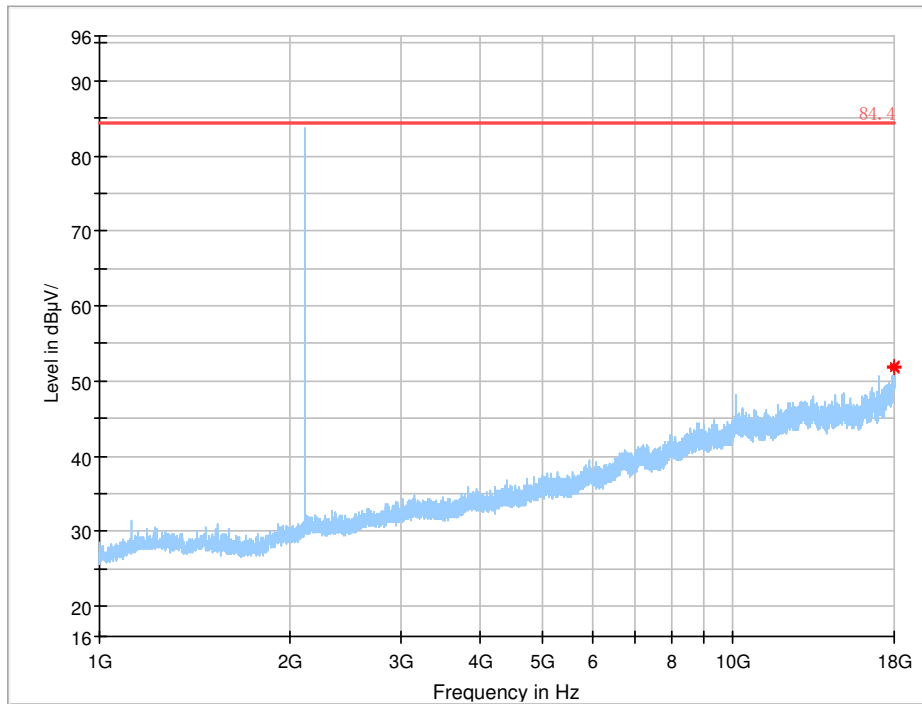
Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
W-1C	B	1 Carrier	5MHz	64QAM
W-1C	T	1 Carrier	5MHz	64QAM

Polarization	Frequency (MHz)	Emission level PK (dBμV/m)	Limits (dBμV/m)	Margin (dBμV/m)
Vertical	953.876500	27.00	84.40	57.40
Horizontal	979.727000	26.97	84.40	57.43
Vertical	17980.800000	51.95	84.40	32.45
Horizontal	18000.000000	51.74	84.40	32.66
Vertical	26142.468750	48.11	84.40	36.29
Horizontal	26155.750000	48.85	84.40	35.55

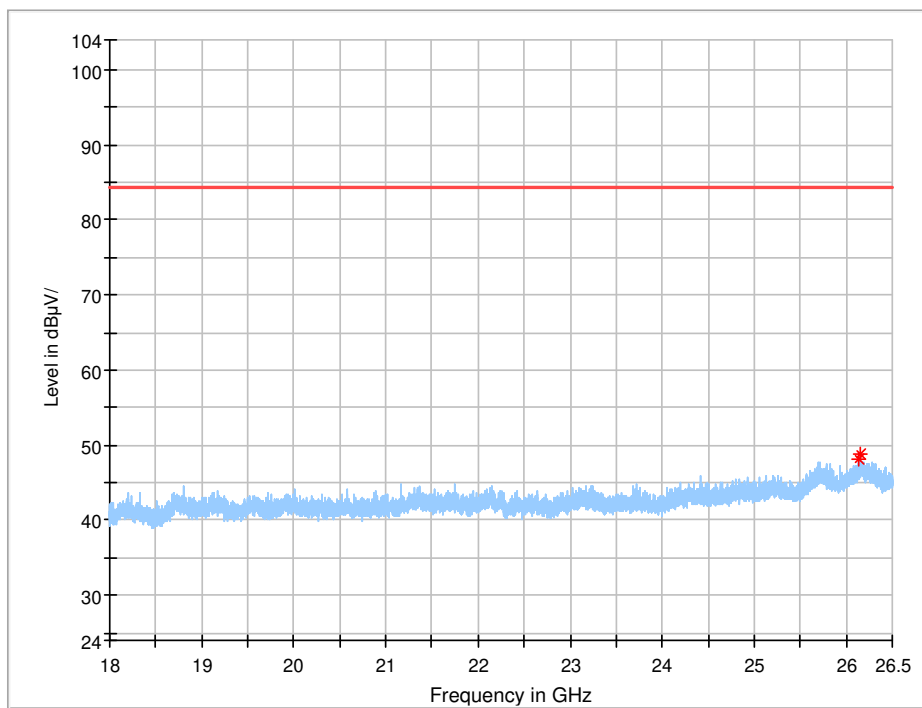
30-1000MHz, Horizontal and Vertical



1-18GHz, Horizontal and Vertical



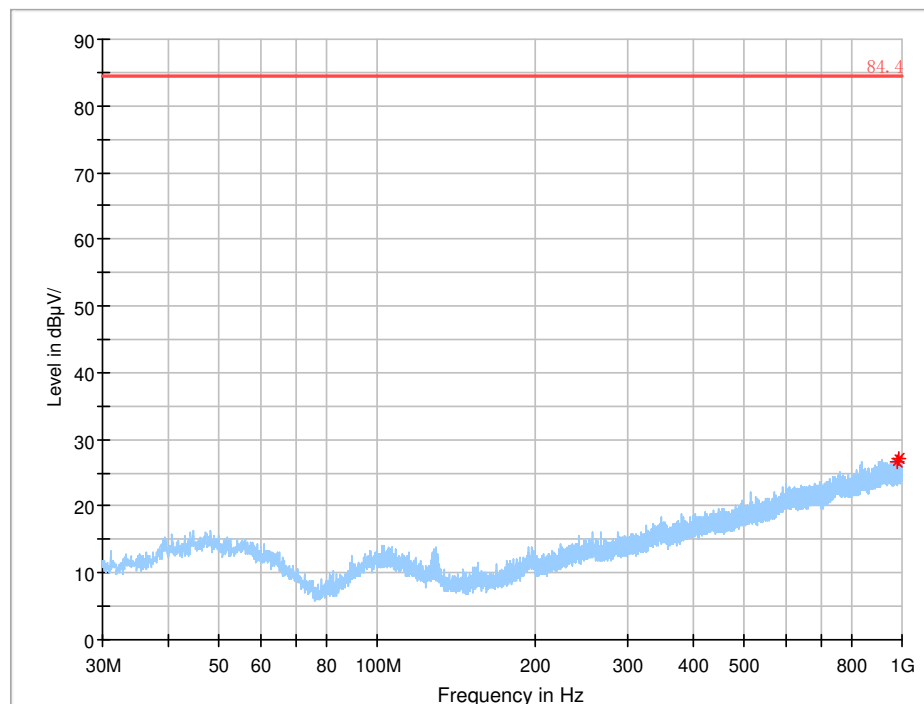
18-26.5GHz, Horizontal and Vertical



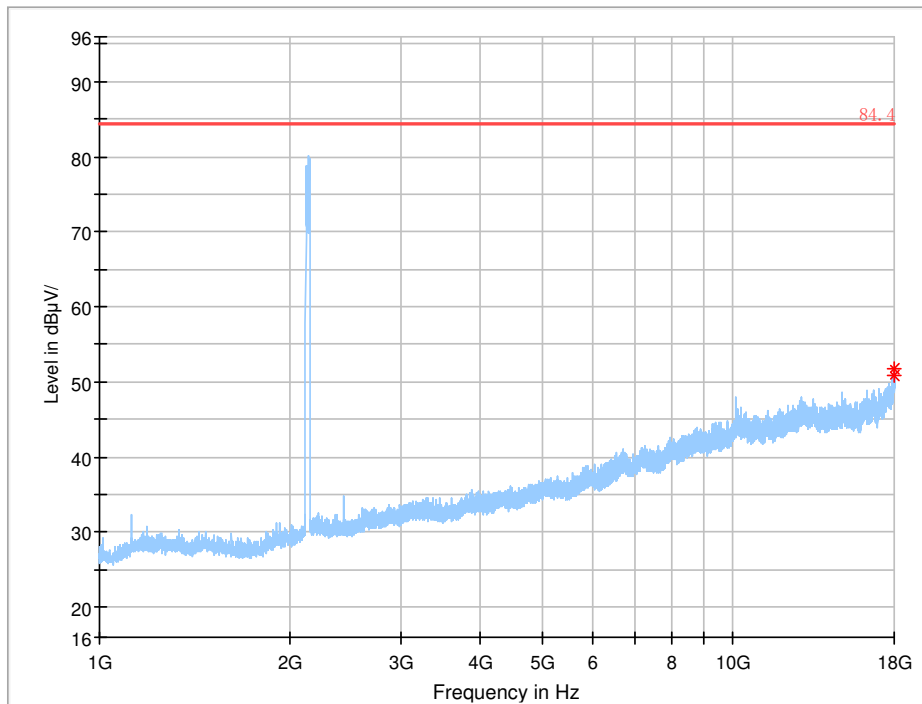
Configuration	Channel Position	Carrier	Carrier Bandwidth	Modulation
W-6C	M	6 Carrier	5MHz	64QAM

Polarization	Frequency (MHz)	Emission level PK (dBμV/m)	Limits (dBμV/m)	Margin (dBμV/m)
Vertical	980.551500	26.74	84.40	57.66
Horizontal	983.995000	27.06	84.40	57.34
Vertical	17984.400000	50.95	84.40	33.45
Horizontal	17988.600000	51.84	84.40	32.56
Vertical	26171.156250	49.48	84.40	34.92
Horizontal	26198.781250	48.66	84.40	35.74

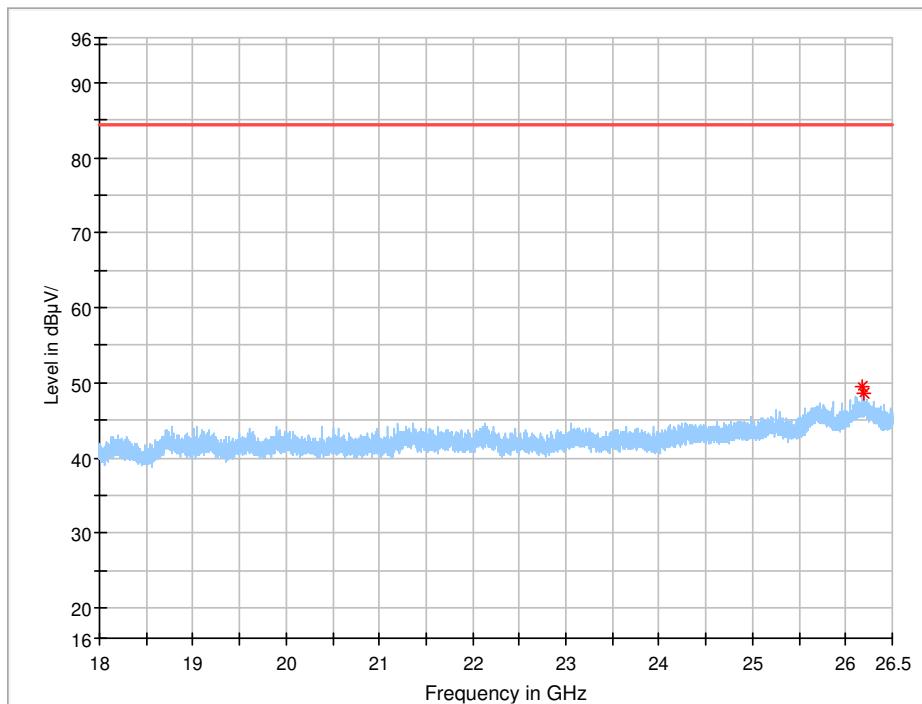
30-1000MHz, Horizontal and Vertical



1-18GHz, Horizontal and Vertical



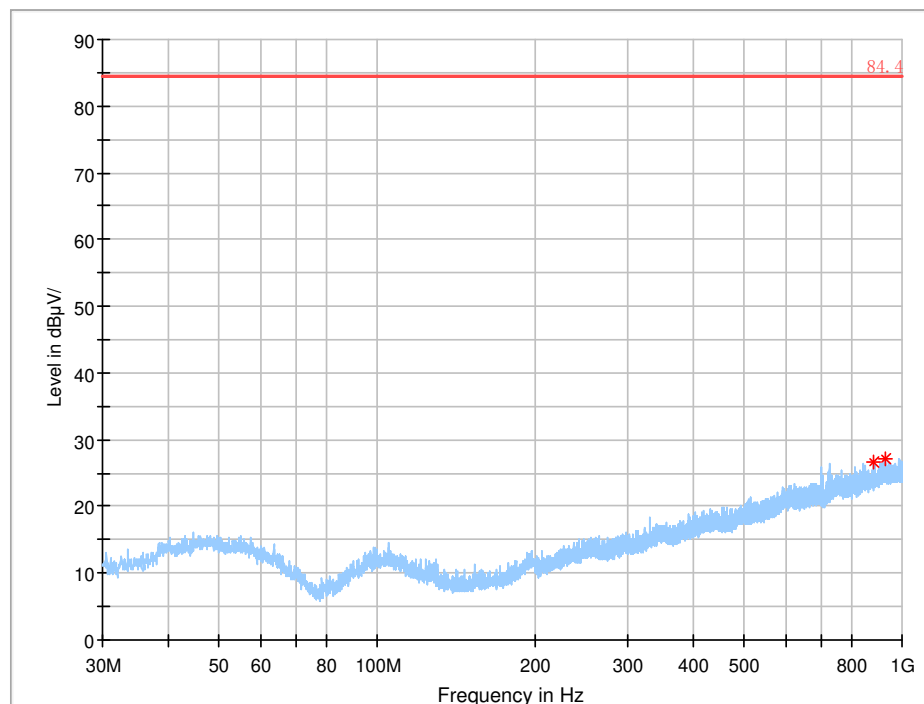
18-26.5GHz, Horizontal and Vertical



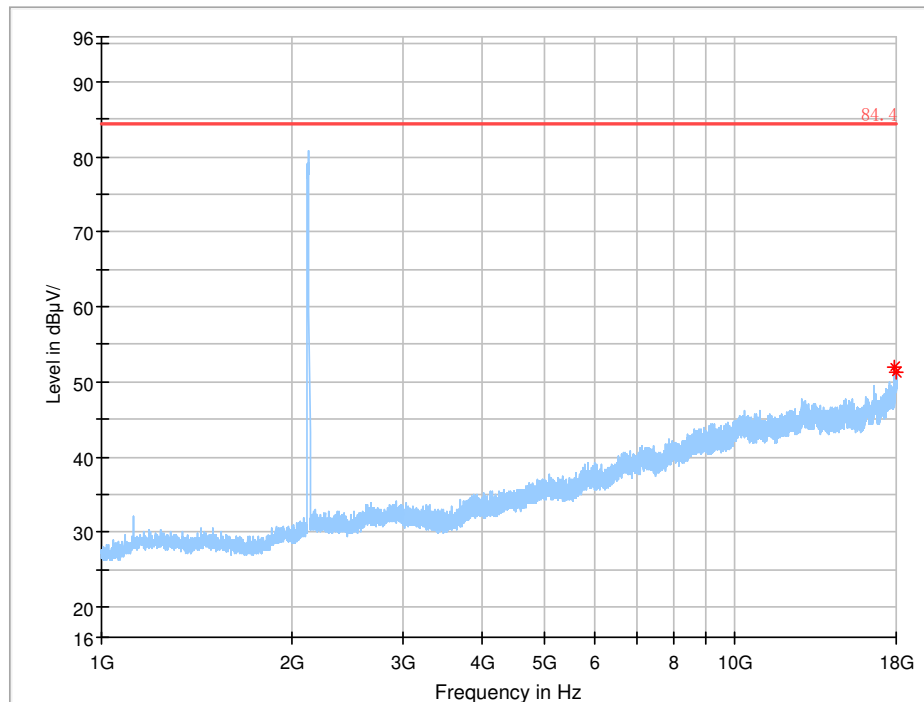
Configuration	Channel Position	Carrier	L Carrier Bandwidth	L Modulation
SA+L	B	2 Carrier	10MHz	64QAM
SA+L	T	2 Carrier	10MHz	64QAM

Polarization	Frequency (MHz)	Emission level PK (dB μ V/m)	Limits (dB μ V/m)	Margin (dB μ V/m)
Vertical	883.648500	26.60	84.40	57.80
Horizontal	929.869000	27.20	84.40	57.20
Vertical	17934.600000	51.87	84.40	32.53
Horizontal	17986.800000	51.29	84.40	33.11
Vertical	26134.500000	47.94	84.40	36.46
Horizontal	26155.218750	47.84	84.40	36.56

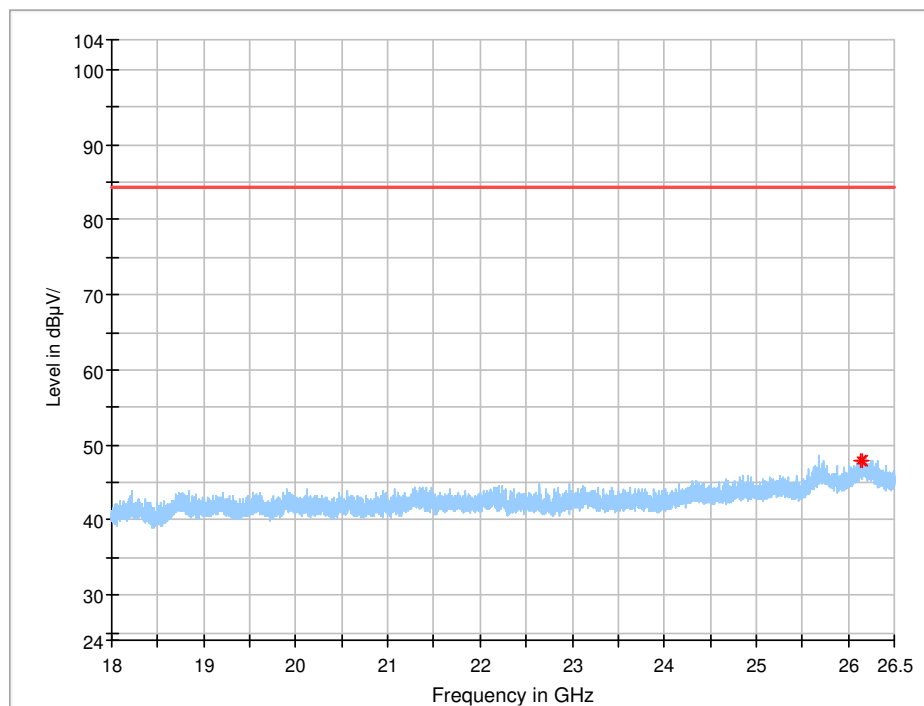
30-1000MHz, Horizontal and Vertical



1-18GHz, Horizontal and Vertical



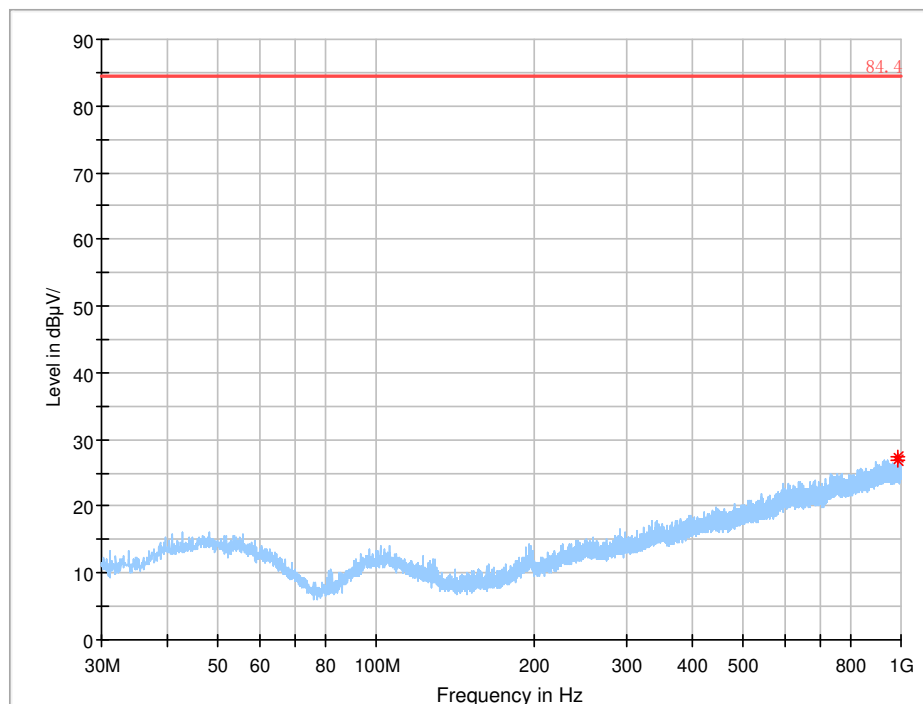
18-26.5GHz, Horizontal and Vertical



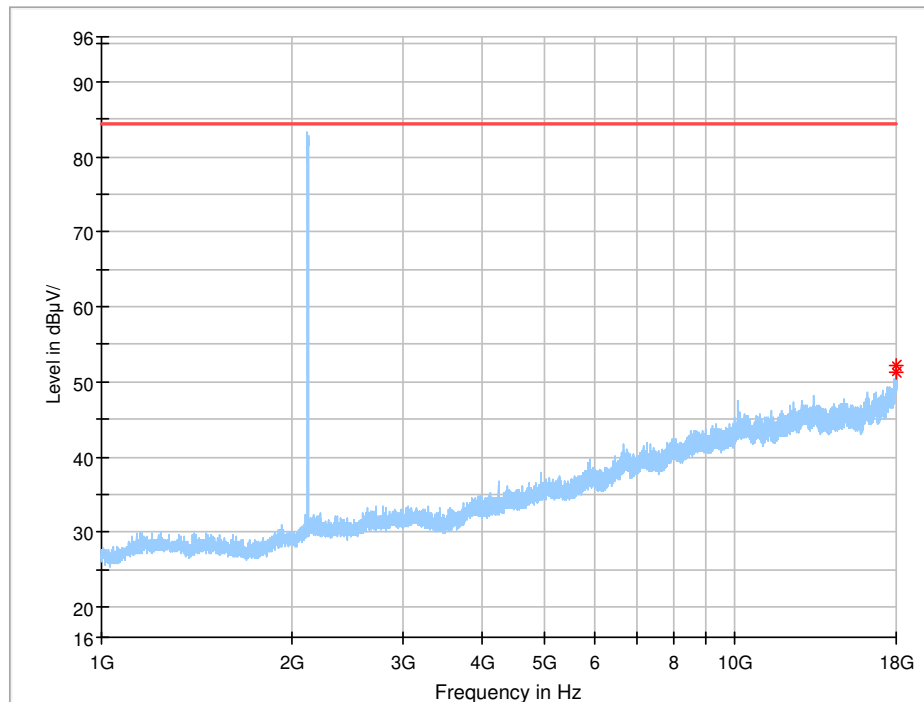
Configuration	Channel Position	Carrier	L Carrier Bandwidth	L Modulation
IB+L	B	2 Carrier	10MHz	64QAM
IB+L	T	2 Carrier	10MHz	64QAM

Polarization	Frequency (MHz)	Emission level PK (dB μ V/m)	Limits (dB μ V/m)	Margin (dB μ V/m)
Vertical	982.588500	27.32	84.40	57.08
Horizontal	984.625500	26.93	84.40	57.47
Vertical	17984.400000	51.34	84.40	33.06
Horizontal	17996.400000	52.17	84.40	32.23
Vertical	26200.906250	48.16	84.40	36.24
Horizontal	26229.062500	48.73	84.40	35.67

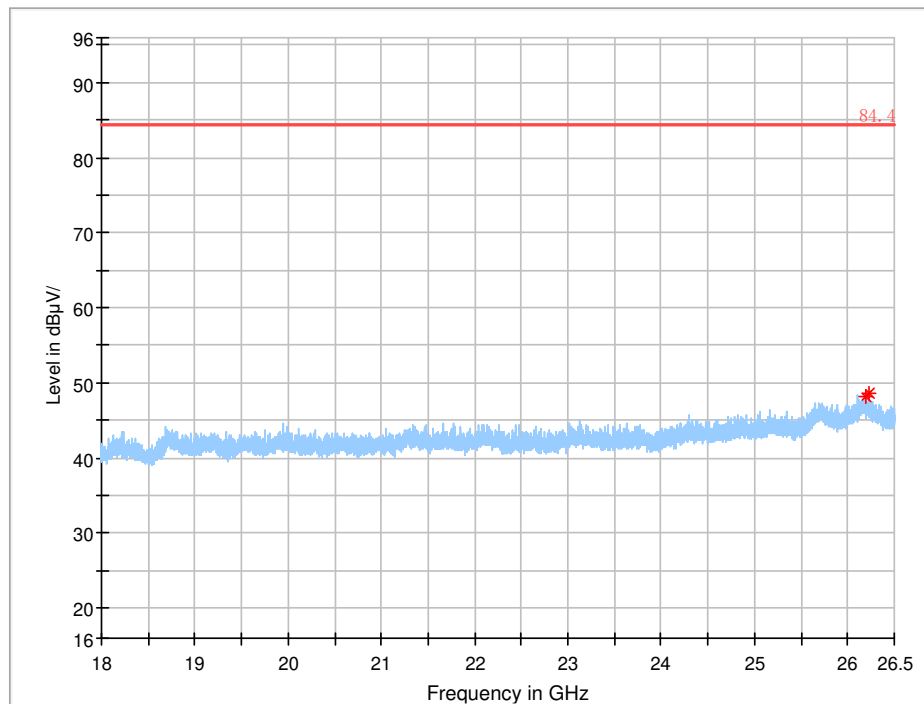
30-1000MHz, Horizontal and Vertical



1-18GHz, Horizontal and Vertical



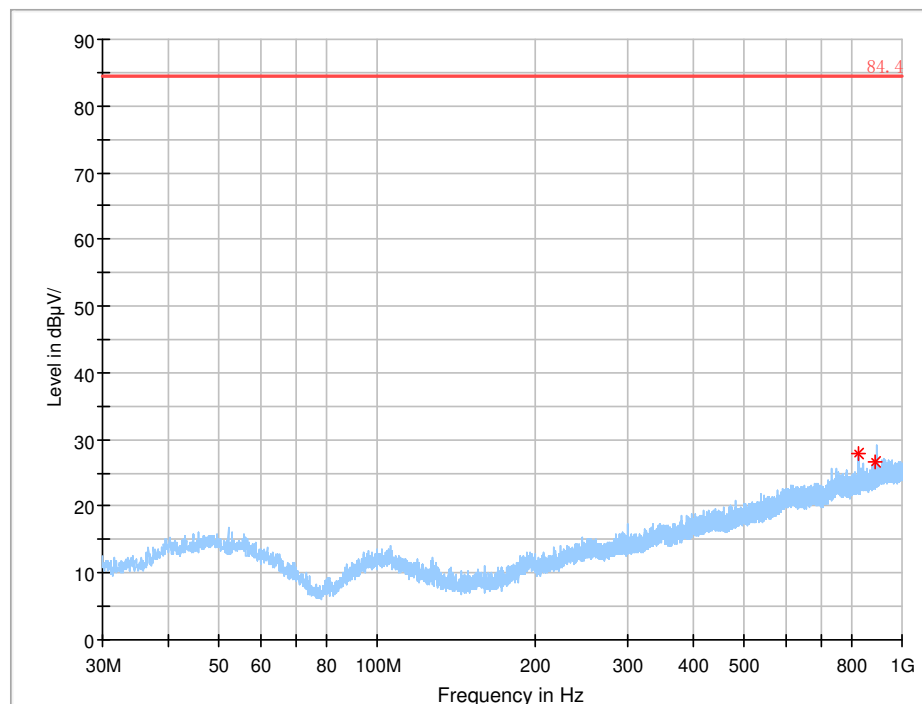
18-26.5GHz, Horizontal and Vertical



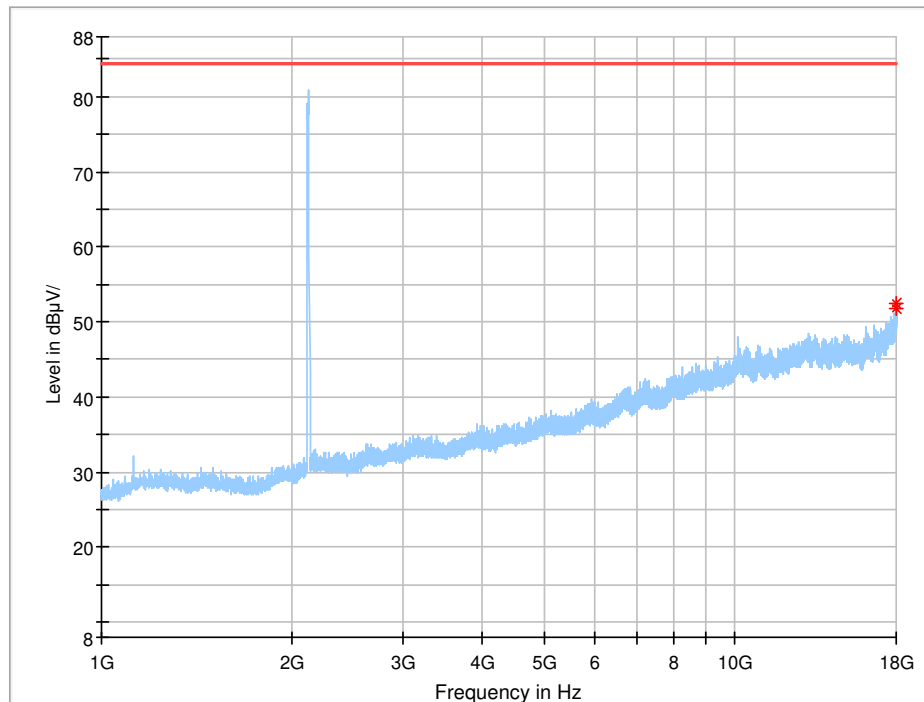
Configuration	Channel Position	Carrier	L Carrier Bandwidth	L Modulation
2GB+L	B	3 Carrier	20MHz	64QAM
2GB+L	T	3 Carrier	20MHz	64QAM

Polarization	Frequency (MHz)	Emission level PK (dB μ V/m)	Limits (dB μ V/m)	Margin (dB μ V/m)
Vertical	825.836500	27.99	84.40	56.41
Horizontal	887.577000	26.60	84.40	57.80
Vertical	17994.600000	52.56	84.40	31.84
Horizontal	18000.000000	51.70	84.40	32.70
Vertical	26119.625000	48.90	84.40	35.50
Horizontal	26225.875000	49.42	84.40	34.98

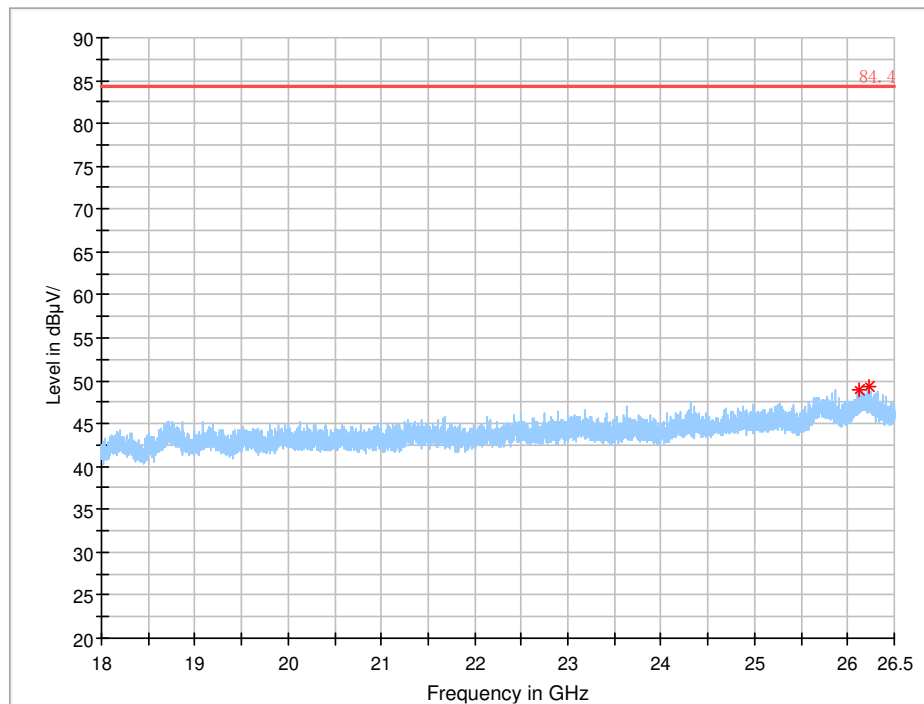
30-1000MHz, Horizontal and Vertical



1-18GHz, Horizontal and Vertical



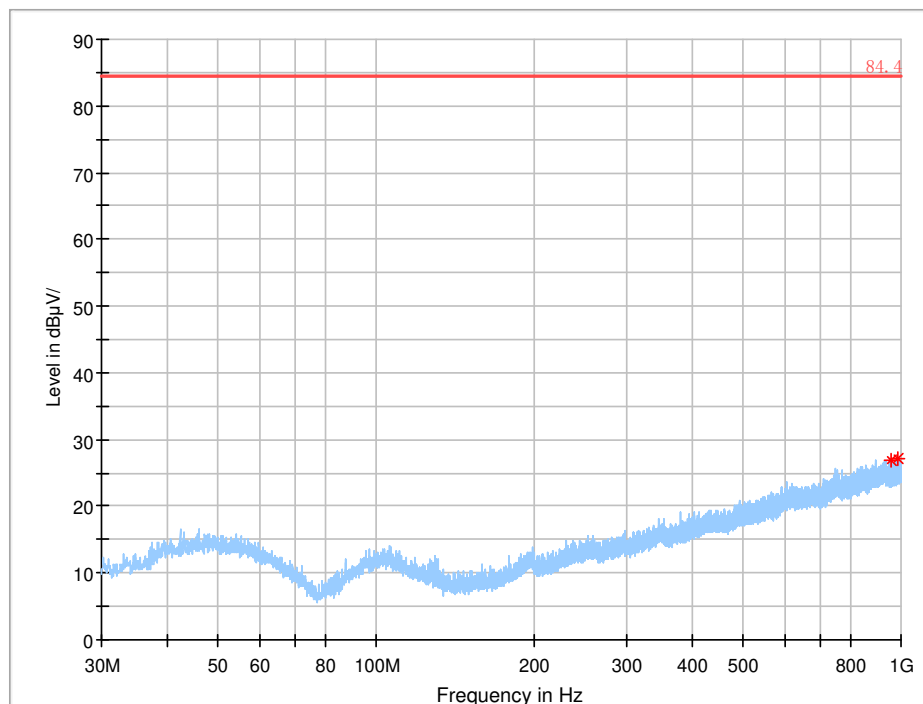
18-26.5GHz, Horizontal and Vertical



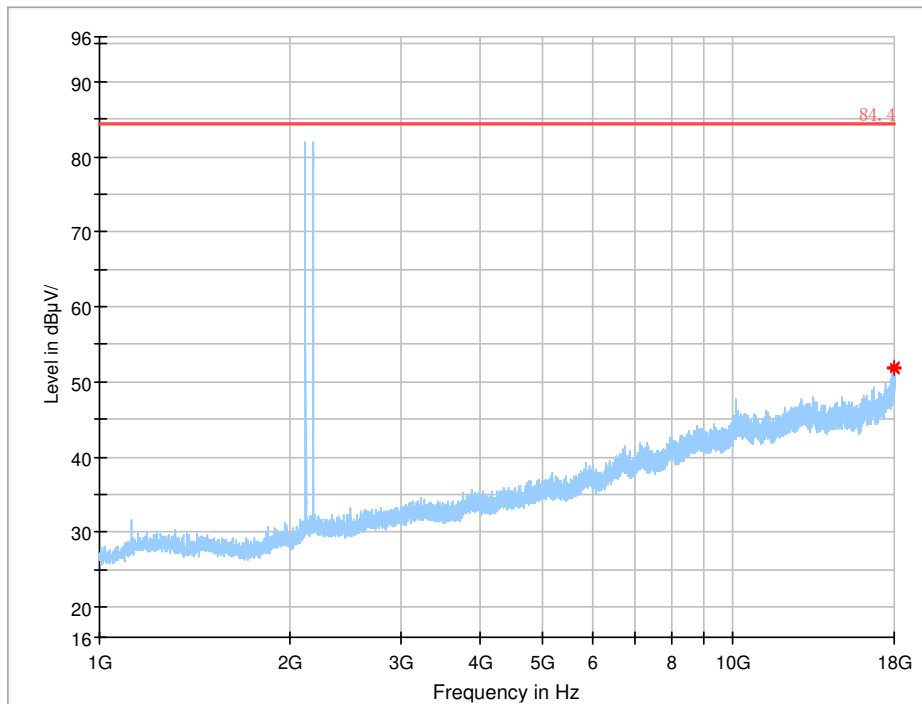
Configuration	Channel Position	Carrier	W/L Carrier Bandwidth	W/L Modulation
W+SA+L	M	3 Carrier	5MHz	64QAM

Polarization	Frequency (MHz)	Emission level PK (dB μ V/m)	Limits (dB μ V/m)	Margin (dB μ V/m)
Vertical	955.962000	26.92	84.40	57.48
Horizontal	985.401500	27.09	84.40	57.31
Vertical	17970.000000	51.71	84.40	32.69
Horizontal	17994.000000	51.96	84.40	32.44
Vertical	26211.000000	48.41	84.40	35.99
Horizontal	26214.718750	48.01	84.40	36.39

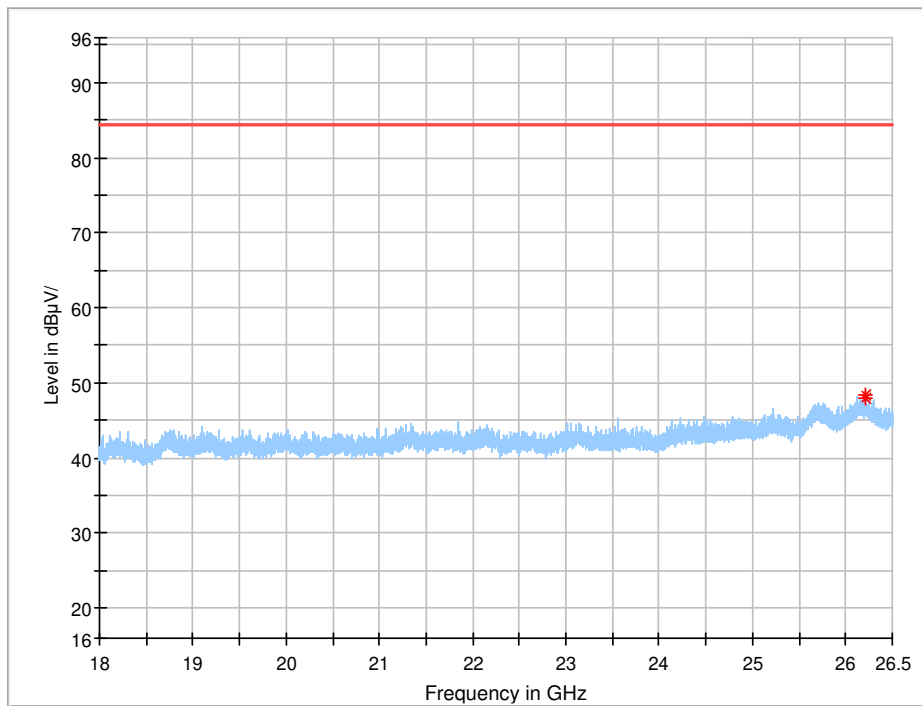
30-1000MHz, Horizontal and Vertical



1-18GHz, Horizontal and Vertical



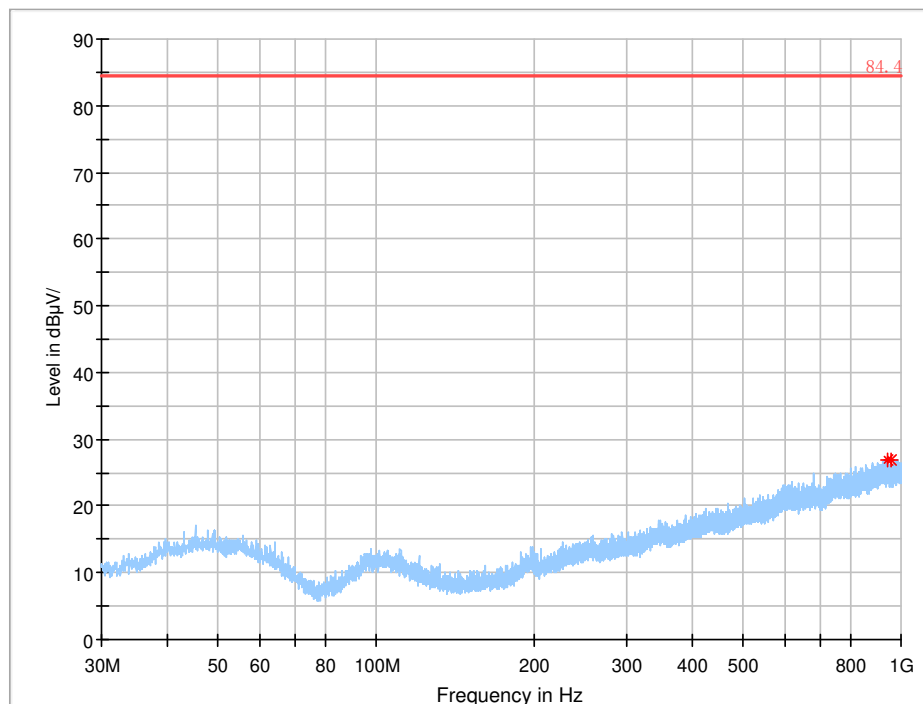
18-26.5GHz, Horizontal and Vertical



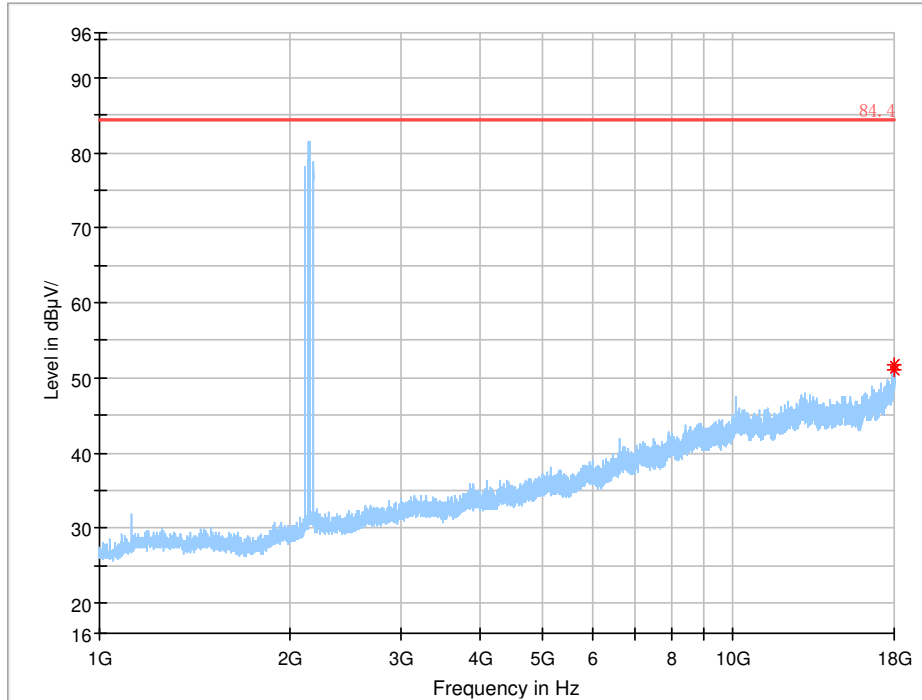
Configuration	Channel Position	Carrier	NR/L Carrier Bandwidth	NR/L Modulation
2NR+2L+2SA	M	6 Carrier	5MHz	QPSK/64QAM

Polarization	Frequency (MHz)	Emission level PK (dBμV/m)	Limits (dBμV/m)	Margin (dBμV/m)
Vertical	944.855500	26.91	84.40	57.49
Horizontal	960.133000	26.81	84.40	57.59
Vertical	17983.200000	51.78	84.40	32.62
Horizontal	17989.800000	51.14	84.40	33.26
Vertical	26165.843750	47.95	84.40	36.45
Horizontal	26170.093750	47.91	84.40	36.49

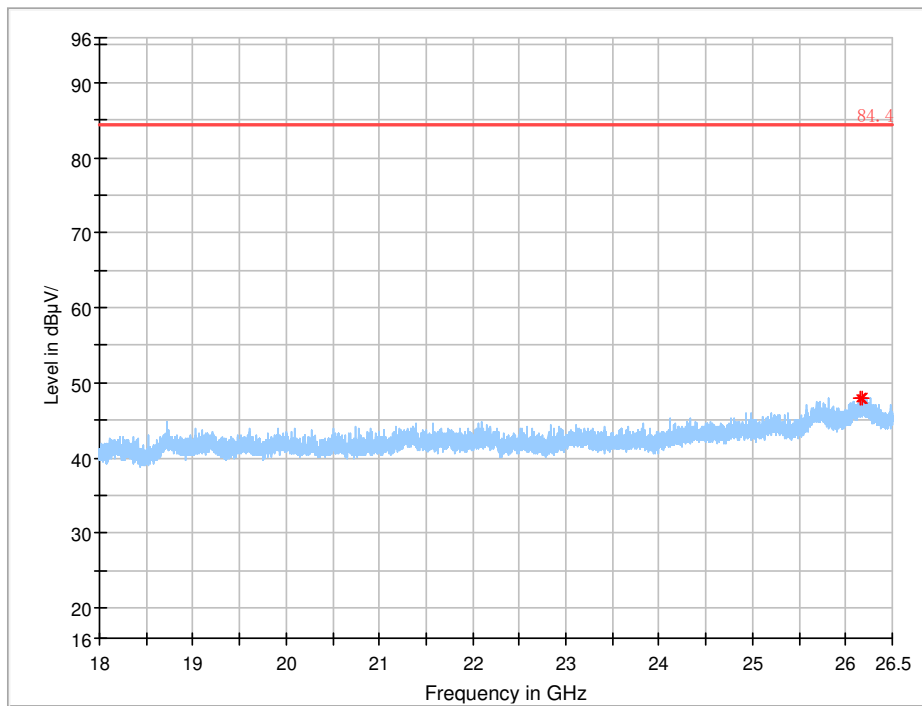
30-1000MHz, Horizontal and Vertical



1-18GHz, Horizontal and Vertical



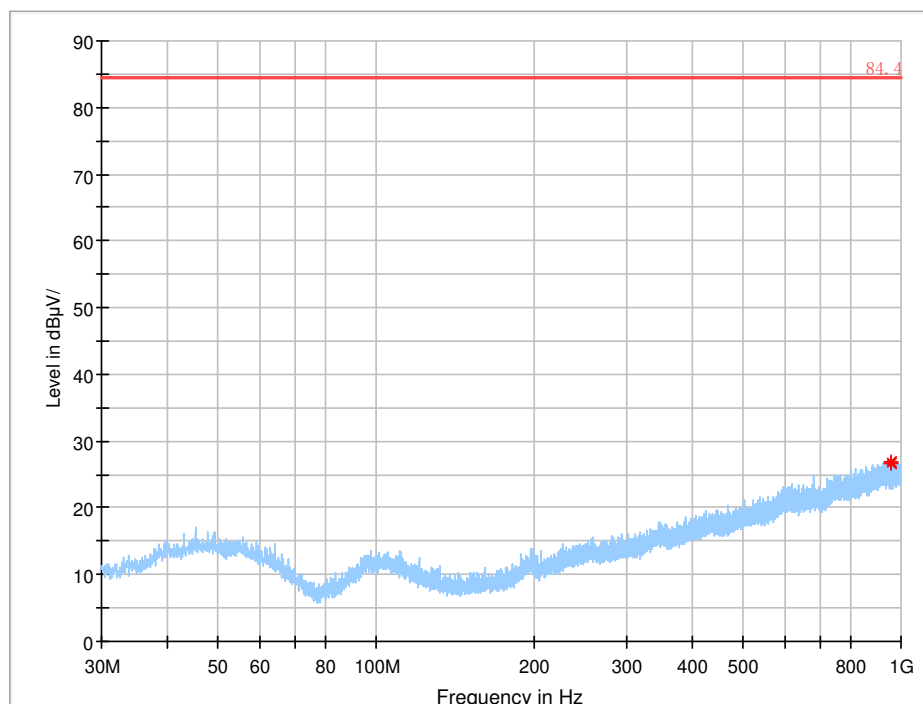
18-26.5GHz, Horizontal and Vertical



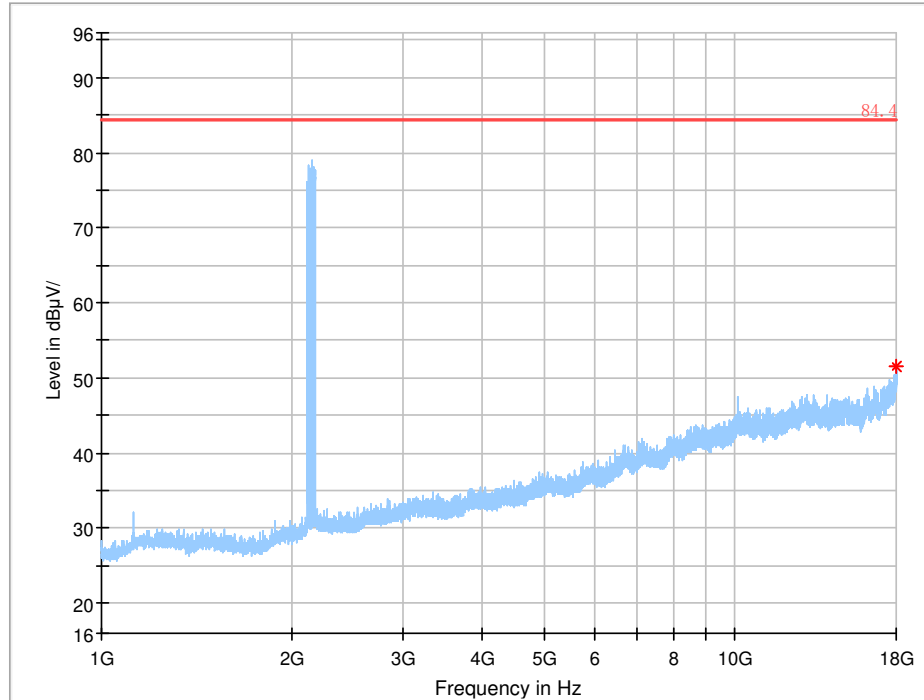
Configuration	Channel Position	Carrier	NR/L Carrier Bandwidth	NR/L Modulation
2NR+2W+2L	M	6 Carrier	5MHz	QPSK/64QAM

Polarization	Frequency (MHz)	Emission level PK (dBμV/m)	Limits (dBμV/m)	Margin (dBμV/m)
Vertical	955.719500	26.60	84.40	57.80
Horizontal	960.133000	26.81	84.40	57.59
Vertical	17966.400000	51.58	84.40	32.82
Horizontal	17977.200000	51.45	84.40	32.95
Vertical	26143.531250	48.57	84.40	35.83
Horizontal	26166.906250	47.75	84.40	36.65

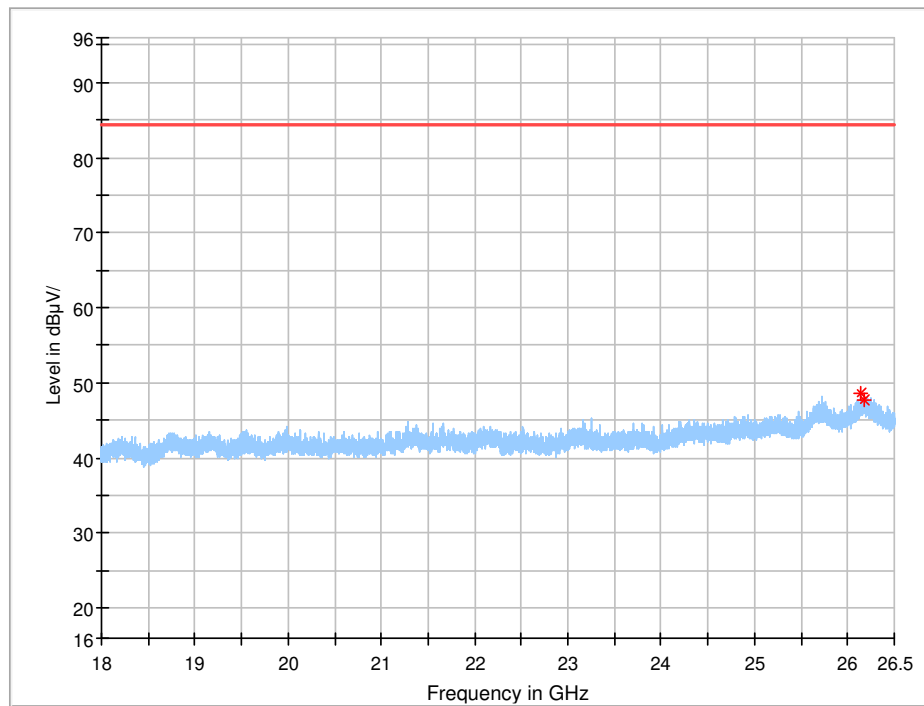
30-1000MHz, Horizontal and Vertical



1-18GHz, Horizontal and Vertical



18-26.5GHz, Horizontal and Vertical



TEST REPORT

8 Frequency Stability

Test result: Pass

8.1 Limit

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

8.2 Measurement Procedure

Temperature Variation

The EUT was tested over the temperature range -30°C to +50°C in 10°C steps with -48VDC Power Supply. At each temperature step, the Base Station was configured to transmit at maximum power on the middle channel of the operating band.

Voltage Variation

The EUT was tested at the supplied voltages varied from 85 to 115 percent of the nominal values of -48 VDC. At +20°C, the Base Station was configured to transmit at maximum power on the middle channel of the frequency block.

8.3 Measurement result

Frequency Error – Temperature Variation

LTE-1C, Channel Bandwidth: 20MHz

Antenna Port	Modulation	Temperature (°C)	Frequency Stability (Hz)		
			Channel Position B	Channel Position M	Channel Position T
B	64QAM	55	0.23	0.15	-0.83
		50	0.20	0.37	0.09
		40	0.32	0.12	0.03
		30	0.23	-0.52	0.68
		20	0.20	0.05	0.00
		10	0.13	0.63	0.02
		0	-0.31	-0.16	-0.06
		-10	0.33	0.09	-0.40
		-20	0.18	0.05	0.00
		-30	-0.44	0.22	0.31
		-40	0.36	-0.19	0.19

Frequency Error – Voltage Variation

LTE-1C, Channel Bandwidth: 20MHz

Antenna Port	Modulation	Temperature (°C)	Supply Voltage (V)	Frequency Stability (Hz)		
				Channel Position B	Channel Position M	Channel Position T
B	64QAM	20	-40.8	0.39	0.12	-0.40
			-48	0.20	0.05	0.00
			-55.2	0.00	0.22	0.30

TEST REPORT

Frequency Error – Temperature Variation

NRE-1C, Channel Bandwidth: 20MHz

Antenna Port	Modulation	Temperature (°C)	Frequency Stability (Hz)		
			Channel Position B	Channel Position M	Channel Position T
B	QPSK	55	-0.43	0.80	-0.25
		50	0.08	0.43	0.24
		40	0.17	0.58	0.34
		30	-0.03	-0.43	-0.24
		20	-0.09	0.51	0.63
		10	-0.09	0.24	-0.85
		0	-0.68	0.56	0.51
		-10	0.19	1.27	-0.27
		-20	-0.52	-0.39	-0.74
		-30	-0.26	-0.21	0.13
		-40	-0.56	-0.07	0.02

Frequency Error – Voltage Variation

NR-1C, Channel Bandwidth: 20MHz

Antenna Port	Modulation	Temperature (°C)	Supply Voltage (V)	Frequency Stability (Hz)		
				Channel Position B	Channel Position M	Channel Position T
B	QPSK	20	-40.8	-0.17	-0.21	0.58
			-48	-0.09	0.51	0.63
			-55.2	-0.08	0.21	0.25

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Frequency Error – Temperature Variation

W-1C, Channel Bandwidth: 5MHz

Antenna Port	Modulation	Temperature (°C)	Frequency Stability (Hz)		
			Channel Position B	Channel Position M	Channel Position T
B	64QAM	55	-1.24	-0.20	-0.82
		50	-0.27	-0.77	-0.53
		40	0.26	-0.50	-1.05
		30	1.03	0.78	0.52
		20	0.90	-0.79	0.88
		10	-1.10	-0.20	-0.41
		0	0.97	-0.50	1.59
		-10	0.90	0.72	0.41
		-20	1.01	-1.07	-0.17
		-30	-0.46	-0.36	-0.86
		-40	0.20	0.61	0.56

Frequency Error – Voltage Variation

W-1C, Channel Bandwidth: 5MHz

Antenna Port	Modulation	Temperature (°C)	Supply Voltage (V)	Frequency Stability (Hz)		
				Channel Position B	Channel Position M	Channel Position T
B	64QAM	20	-40.8	0.72	-0.43	0.42
			-48	0.90	-0.79	0.88
			-55.2	1.45	0.37	1.19

***** END *****