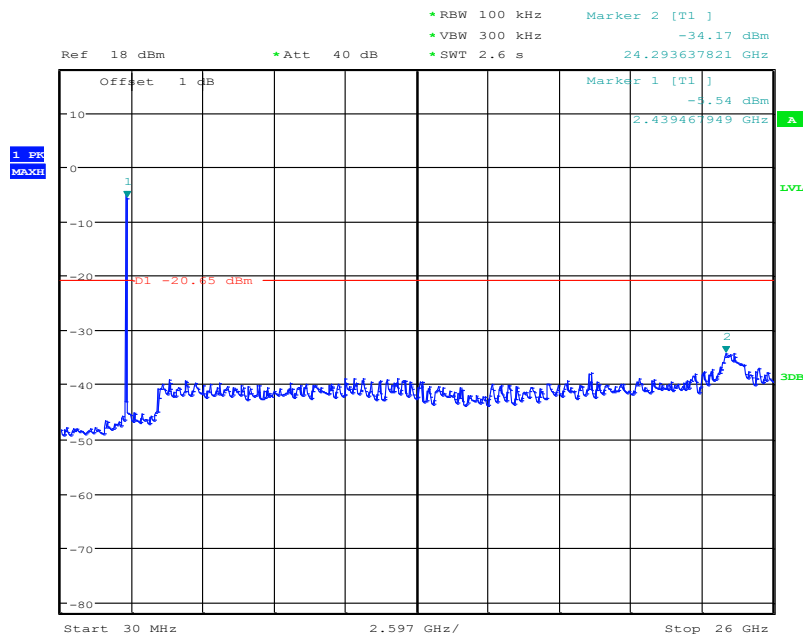
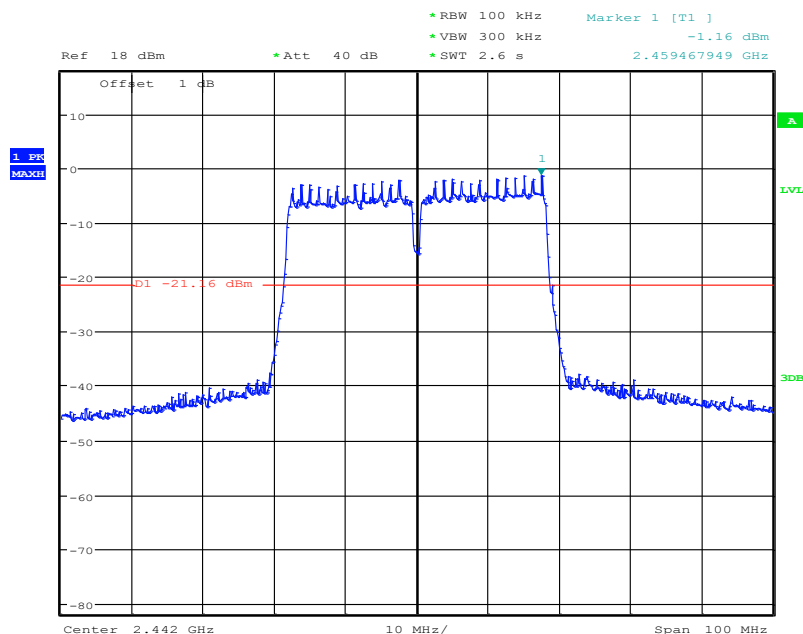


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Date: 10.JUN.2021 14:38:34

Fig.124 Conducted spurious emission: Ch3,11n(40M),30MHz~26GHz



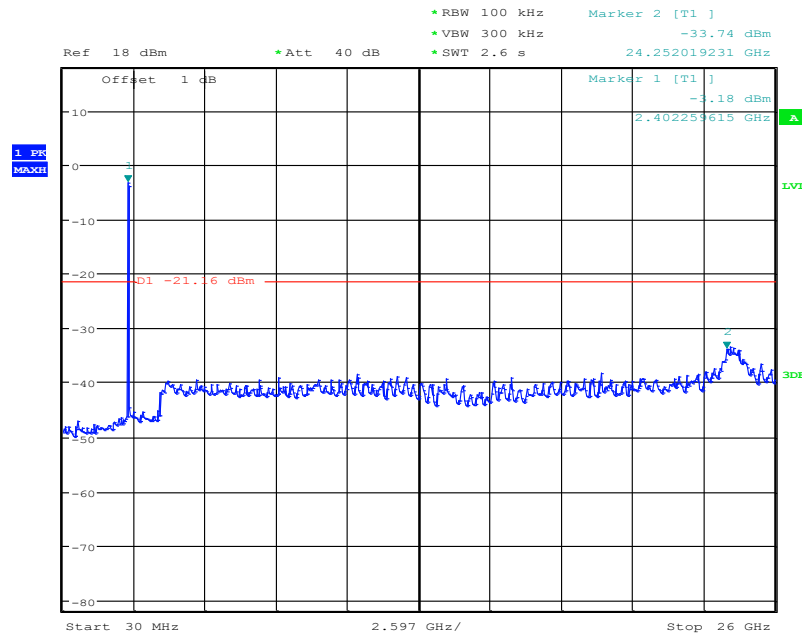
Date: 10.JUN.2021 14:39:16

Fig.125 Conducted spurious emission: Ch7,11n(40M),2442MHz

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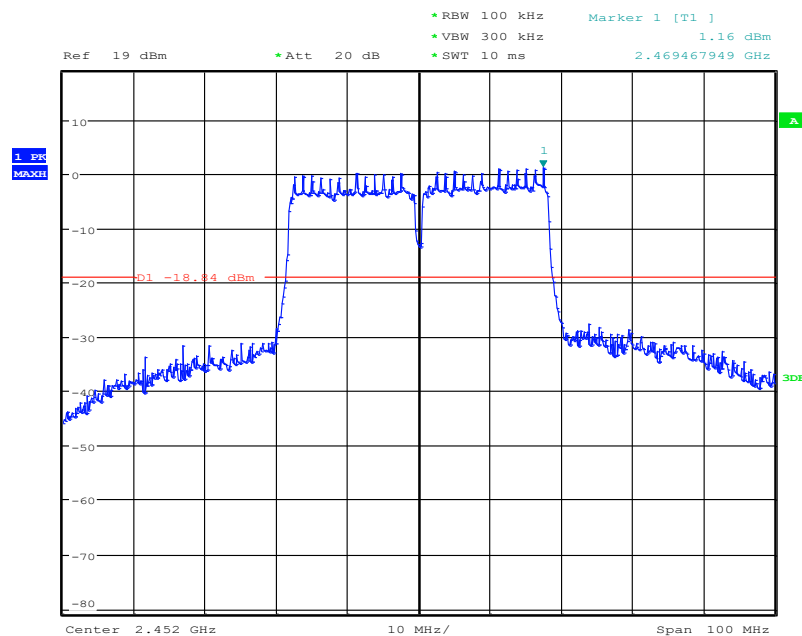
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

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Date: 10.JUN.2021 14:39:36

Fig.126 Conducted spurious emission: Ch7,11n(40M),30MHz~26GHz



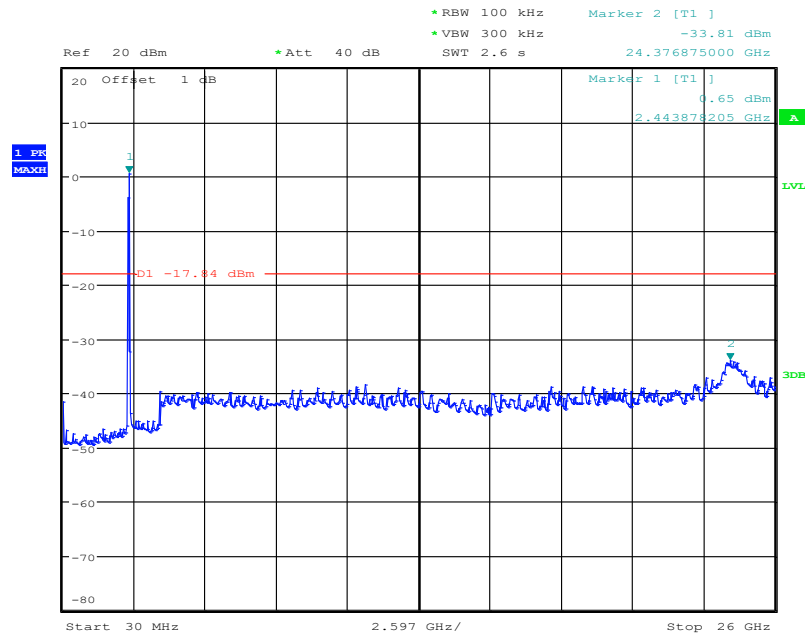
Date: 11.JUN.2021 14:48:55

Fig.127 Conducted spurious emission: Ch11,11n(40M),2462MHz

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Date: 11.JUN.2021 14:52:41

Fig.128 Conducted spurious emission: Ch11,11n(40M),30MHz~26GHz

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5.7 Transmitter Spurious Emission-Radiated

Specifications:	FCC 47 CFR Part 15.247, 15.205, 15.209
DUT Serial Number:	866884045657848
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see 15.205(c)).

Measurement Uncertainty:

Frequency Range	Uncertainty
$30\text{MHz} \leq f \leq 1\text{GHz}$	± 3.97
$1\text{GHz} \leq f \leq 6\text{GHz}$	± 3.29
$6\text{GHz} \leq f \leq 18\text{GHz}$	± 3.91
$18\text{GHz} \leq f \leq 26\text{GHz}$	± 4.60
$26\text{GHz} \leq f \leq 40\text{GHz}$	± 4.77

Limit in restricted band:

Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBuV/m)
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

Test Procedure

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT

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arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time (s)
30~1000	100KHz/300KHz	5
1000~4000	1MHz/1MHz	15
4000~18000	1MHz/1MHz	40
18000~26500	1MHz/1MHz	20

Test Result:

A “reference path loss” is established and AR_{pi} is the attenuation of “reference path loss”, and including the gain of receive antenna , the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

AR_{pi}= Cable loss + Antenna Gain-Preamplifier gain

Result=PM_{ea} + AR_{pi}

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	30MH-1GHz	Fig.153	Pass
		1GHz-3GHz	Fig.154	
		3GHz-18GHz	Fig.155	
	6	30MH-1GHz	Fig.156	Pass
		1GHz-3GHz	Fig.157	
		3GHz-18GHz	Fig.158	
	11	30MH-1GHz	Fig.159	Pass
		1GHz-3GHz	Fig.160	
		3GHz-18GHz	Fig.161	

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Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	30MH-1GHz	Fig.162	Pass
		1GHz-3GHz	Fig.163	
		3GHz-18GHz	Fig.164	
	6	30MH-1GHz	Fig.165	Pass
		1GHz-3GHz	Fig.166	
		3GHz-18GHz	Fig.167	
	11	30MH-1GHz	Fig.168	Pass
		1GHz-3GHz	Fig.169	
		3GHz-18GHz	Fig.170	

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	1	30MH-1GHz	Fig.171	Pass
		1GHz-3GHz	Fig.172	
		3GHz-18GHz	Fig.173	
	6	30MH-1GHz	Fig.174	Pass
		1GHz-3GHz	Fig.175	
		3GHz-18GHz	Fig.176	
	11	30MH-1GHz	Fig.177	Pass
		1GHz-3GHz	Fig.178	
		3GHz-18GHz	Fig.179	
802.11n (40MHz)	3	30MH-1GHz	Fig.180	Pass
		1GHz-3GHz	Fig.181	
		3GHz-18GHz	Fig.182	
	7	30MH-1GHz	Fig.183	Pass
		1GHz-3GHz	Fig.184	
		3GHz-18GHz	Fig.185	
	9	30MH-1GHz	Fig.186	Pass
		1GHz-3GHz	Fig.187	
		3GHz-18GHz	Fig.188	
18G-26G	All channels	18GHz-26GHz	Fig.189	Pass

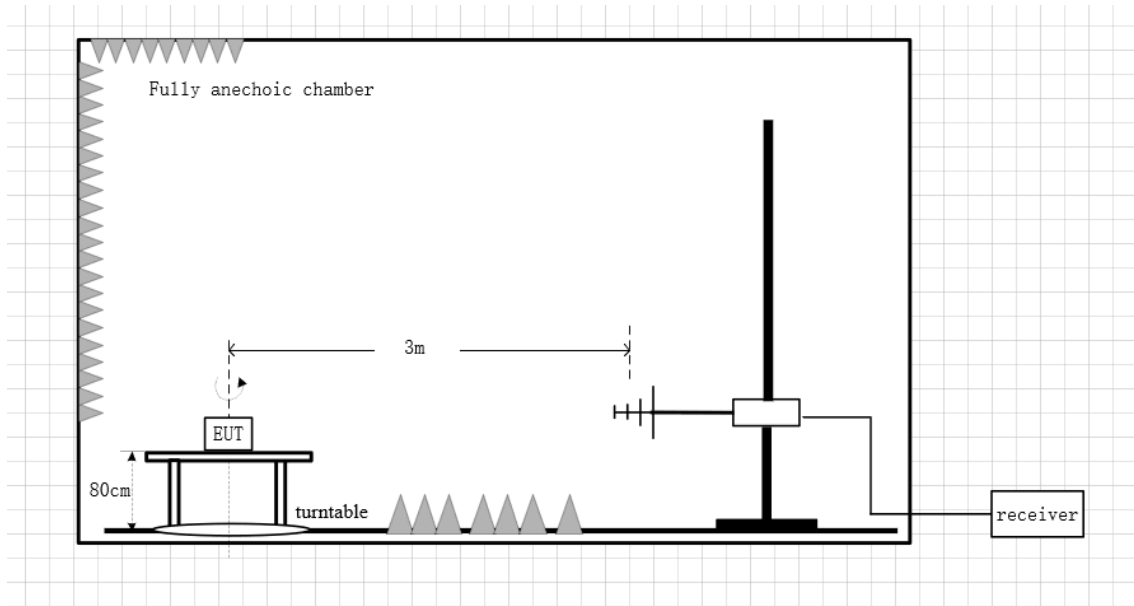
Note: all the test data shown was peak detected.

Test block diagram:

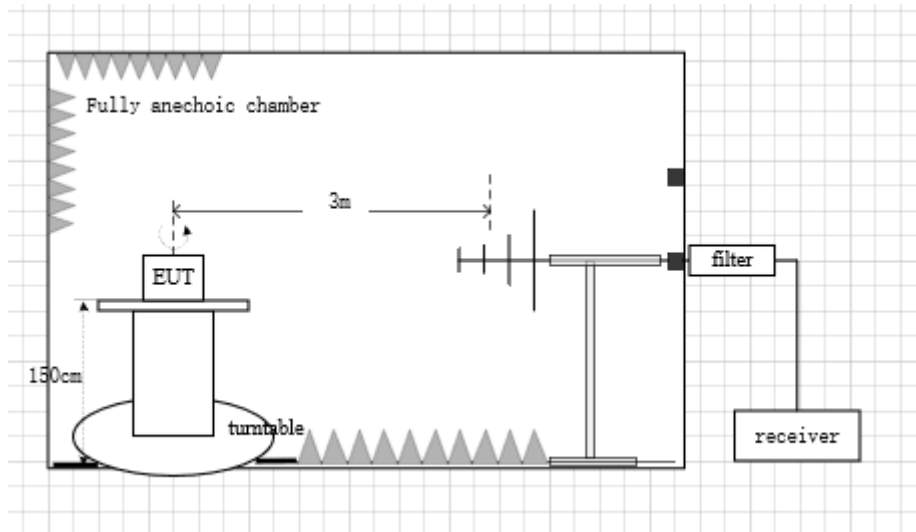
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30MHz-1GHz



Above 1GHz

Note: The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Transmitter Spurious Emission-Radiated H and V are tested together, The test result is maximum hold. Therefore, the result is only one set of data. Found the emission level are attenuated 20dB below the limits for frequency range 9kHz to 30MHz, so it does not recorded in report.

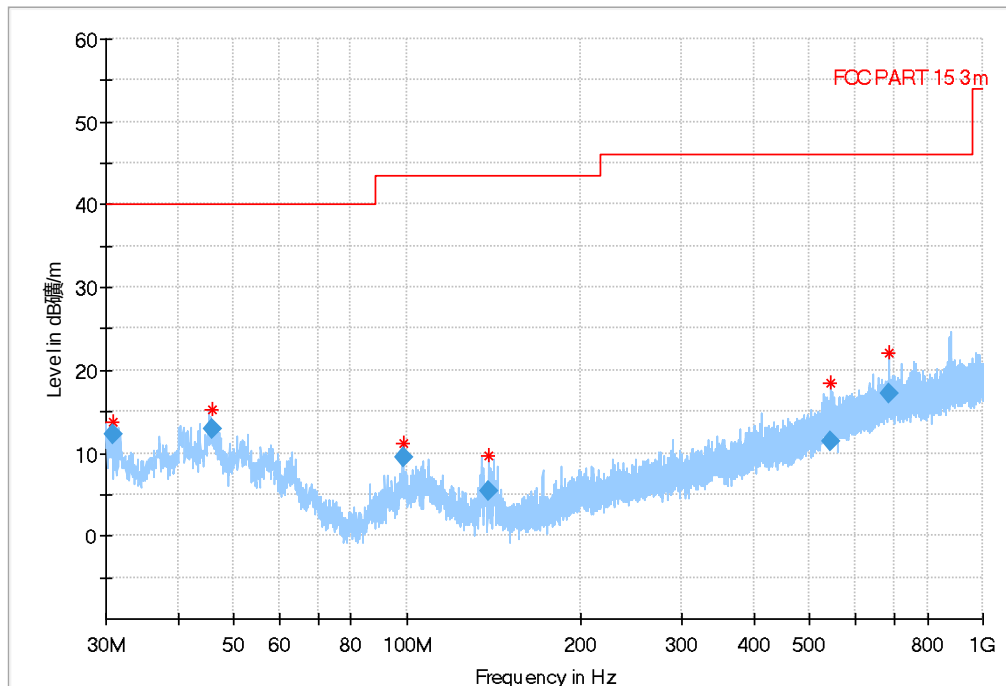
Conclusion: PASS

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Test graphs as below:



Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873000	12.18	40.00	27.82	1000.0	120.000	105.0	V	120.0	-22.2
45.780500	12.84	40.00	27.16	1000.0	120.000	217.0	V	283.0	-18.3
98.288000	9.50	40.00	30.50	1000.0	120.000	166.0	H	135.0	-20.9
138.486000	5.43	40.00	34.58	1000.0	120.000	119.0	V	-39.0	-24.3
542.664500	11.48	47.00	35.52	1000.0	120.000	202.0	H	266.0	-11.2
687.523000	17.24	47.00	29.76	1000.0	120.000	303.0	H	-7.0	-8.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
30.873000	24:47 - 6/8/2021
45.780500	27:49 - 6/8/2021
98.288000	13:02 - 6/8/2021
138.486000	22:13 - 6/8/2021
542.664500	16:02 - 6/8/2021
687.523000	19:27 - 6/8/2021

Fig.129 Radiated emission:11b, Ch1, 30MHz-1GHz

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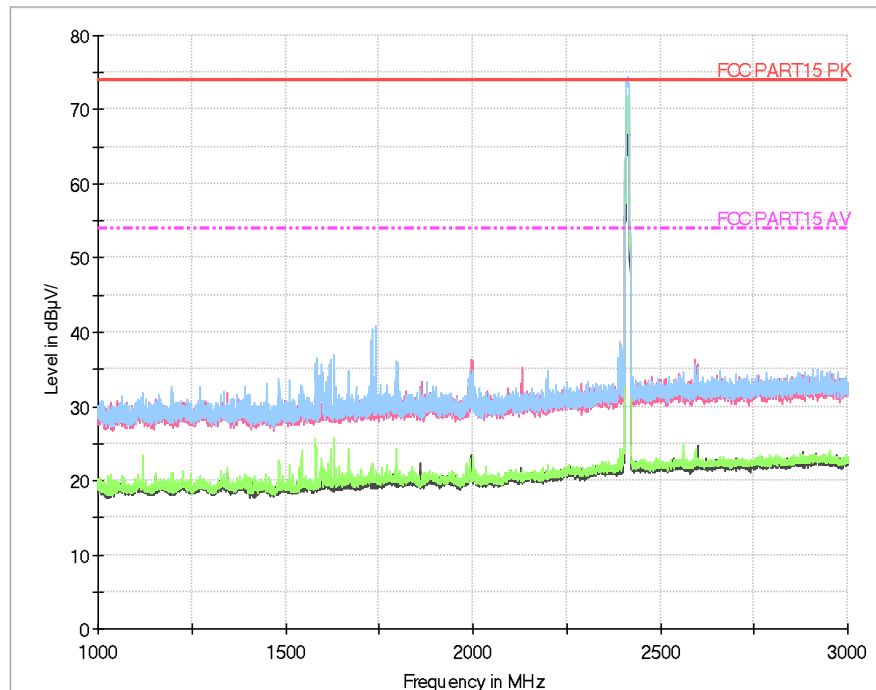


Fig.130 Radiated emission:11b, Ch1, 1GHz-3GHz

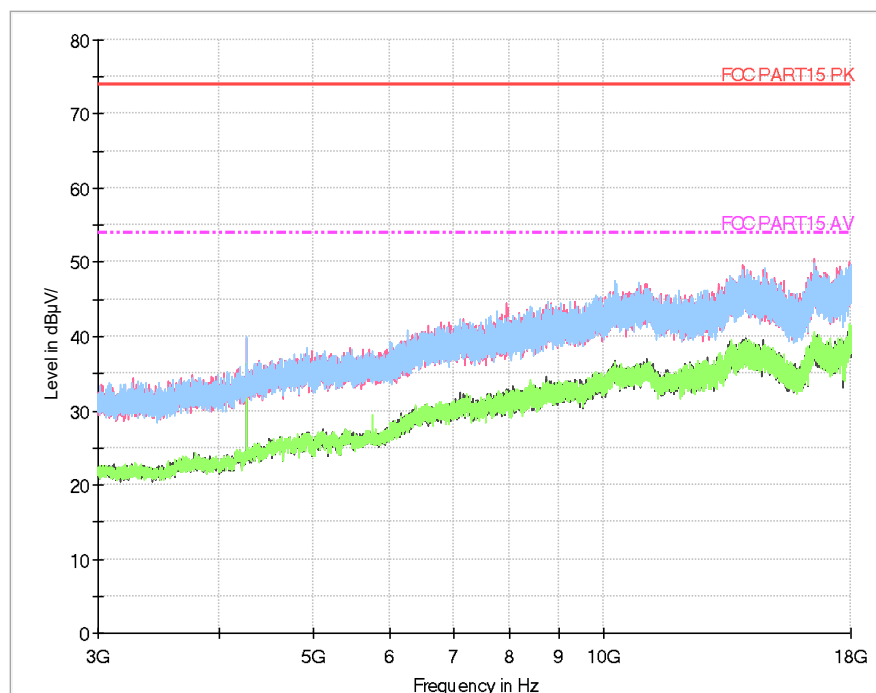
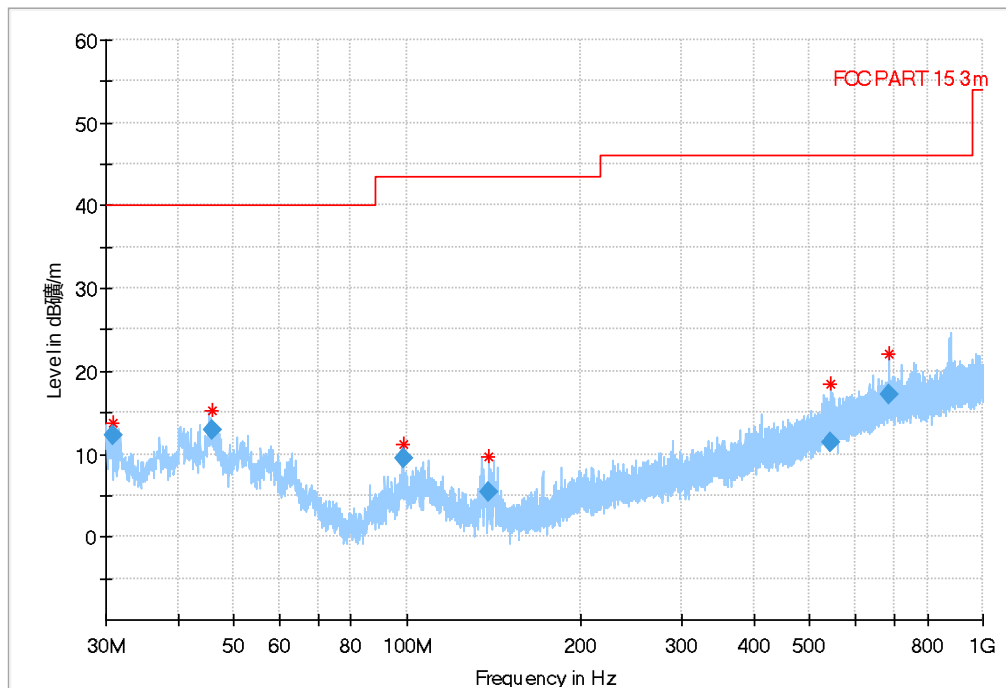


Fig.131 Radiated emission: 11b,Ch1, 3GHz-18GHz

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Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873000	12.18	40.00	27.82	1000.0	120.000	105.0	V	120.0	-22.2
45.780500	12.84	40.00	27.16	1000.0	120.000	217.0	V	283.0	-18.3
98.288000	9.50	40.00	30.50	1000.0	120.000	166.0	H	135.0	-20.9
138.486000	5.43	40.00	34.58	1000.0	120.000	119.0	V	-39.0	-24.3
542.664500	11.48	47.00	35.52	1000.0	120.000	202.0	H	266.0	-11.2
687.523000	17.24	47.00	29.76	1000.0	120.000	303.0	H	-7.0	-8.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
30.873000	24:47 - 6/8/2021
45.780500	27:49 - 6/8/2021
98.288000	13:02 - 6/8/2021
138.486000	22:13 - 6/8/2021
542.664500	16:02 - 6/8/2021
687.523000	19:27 - 6/8/2021

Fig.132 Radiated emission:11b,Ch6, 30MHz-1GHz

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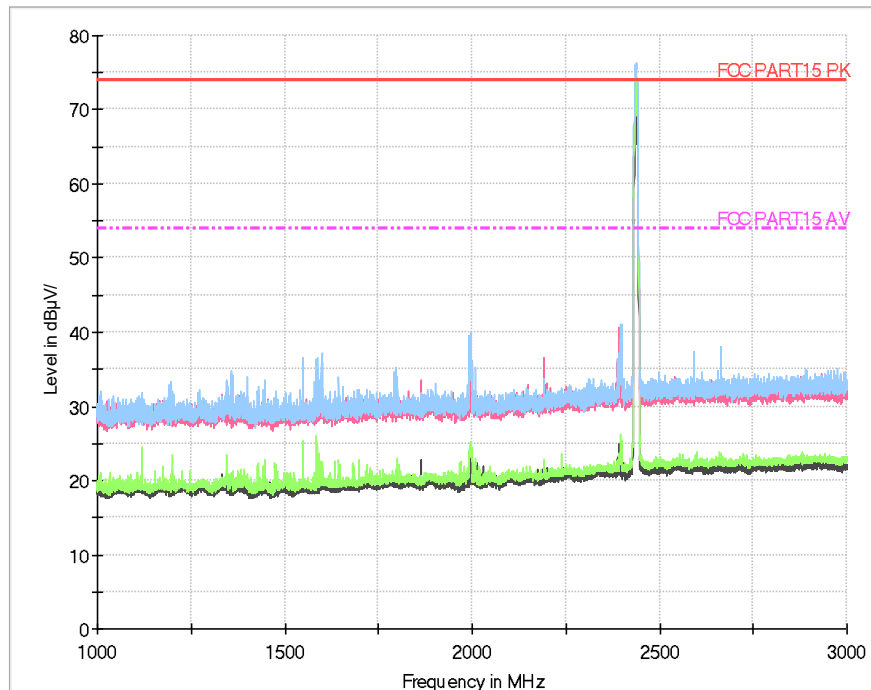


Fig.133 Radiated emission: 11b,Ch6, 1GHz-3GHz

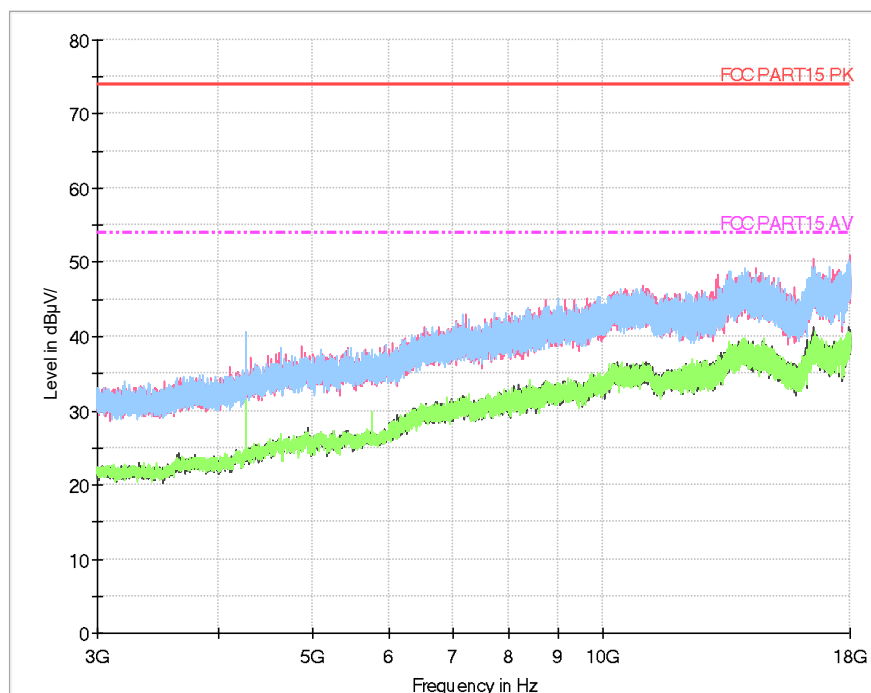
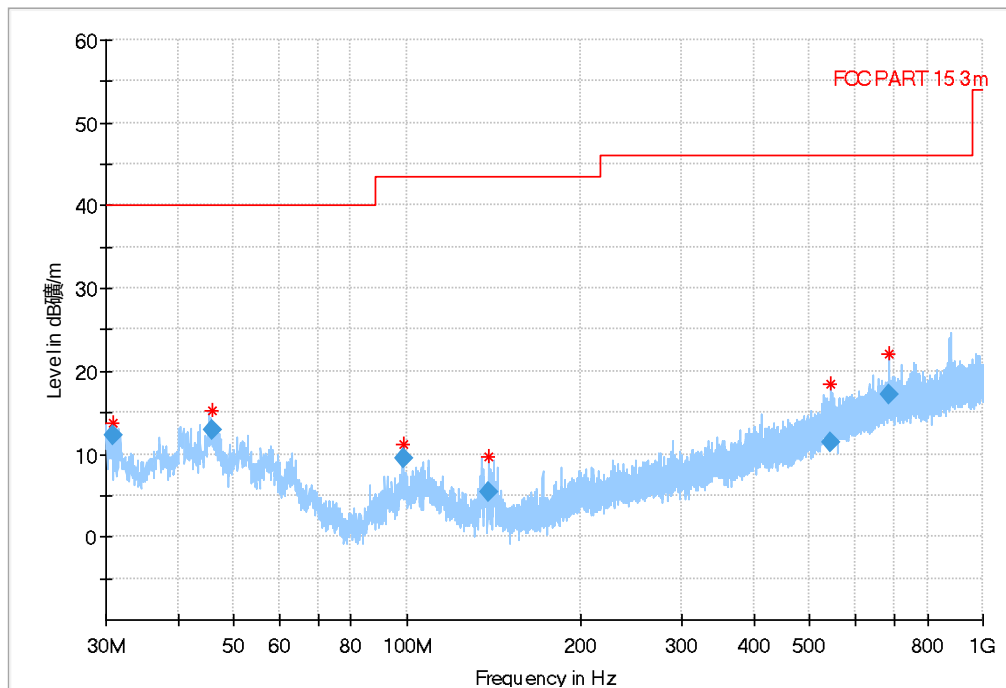


Fig.134 Radiated emission: 11b,Ch6, 3GHz-18GHz

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Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873000	12.18	40.00	27.82	1000.0	120.000	105.0	V	120.0	-22.2
45.780500	12.84	40.00	27.16	1000.0	120.000	217.0	V	283.0	-18.3
98.288000	9.50	40.00	30.50	1000.0	120.000	166.0	H	135.0	-20.9
138.486000	5.43	40.00	34.58	1000.0	120.000	119.0	V	-39.0	-24.3
542.664500	11.48	47.00	35.52	1000.0	120.000	202.0	H	266.0	-11.2
687.523000	17.24	47.00	29.76	1000.0	120.000	303.0	H	-7.0	-8.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
30.873000	24:47 - 6/8/2021
45.780500	27:49 - 6/8/2021
98.288000	13:02 - 6/8/2021
138.486000	22:13 - 6/8/2021
542.664500	16:02 - 6/8/2021
687.523000	19:27 - 6/8/2021

Fig.135 Radiated emission: 11b,Ch11, 30MHz-1GHz

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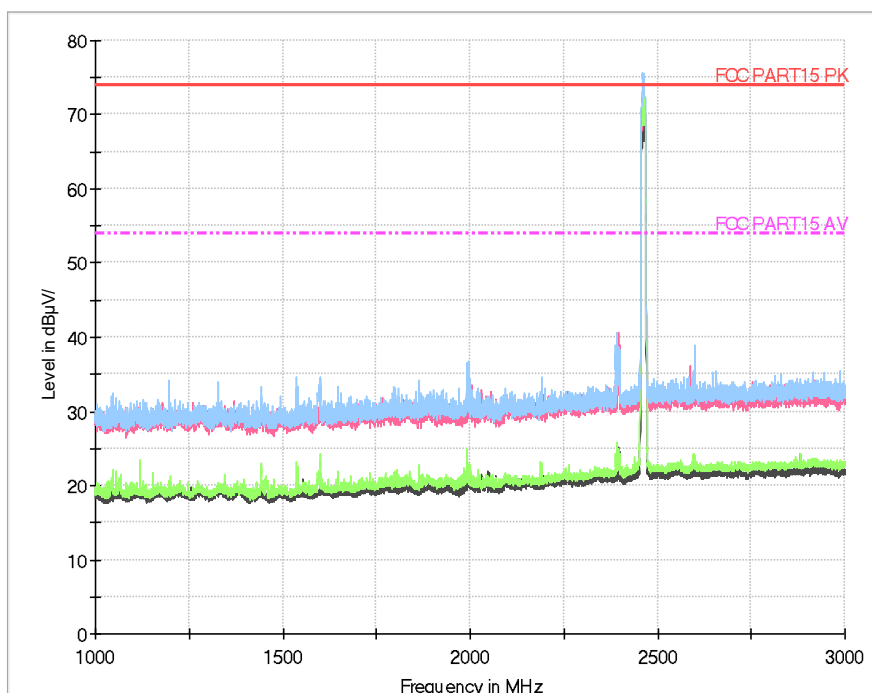


Fig.136 Radiated emission: 11b,Ch11, 1GHz-3GHz

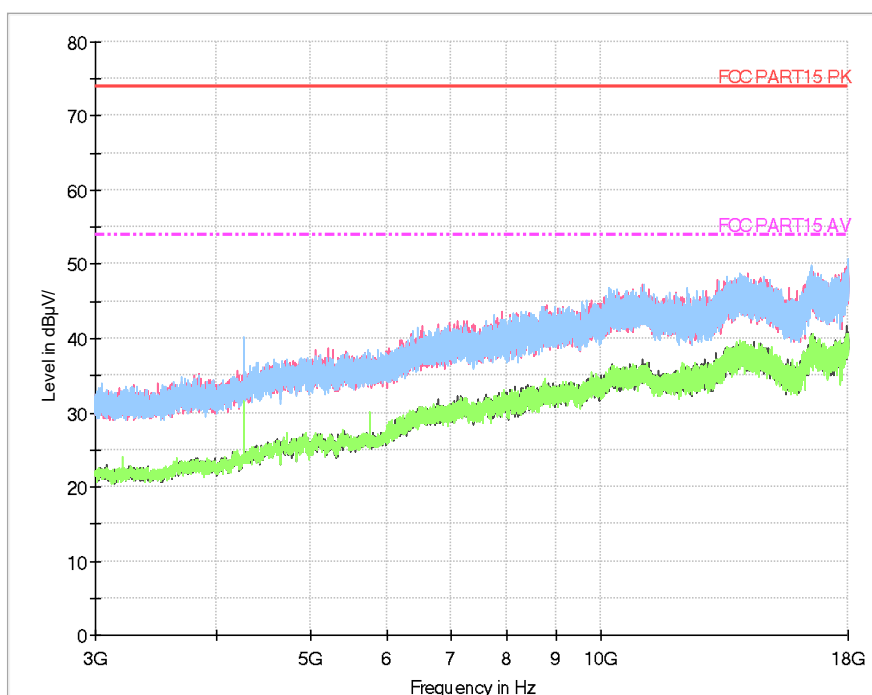
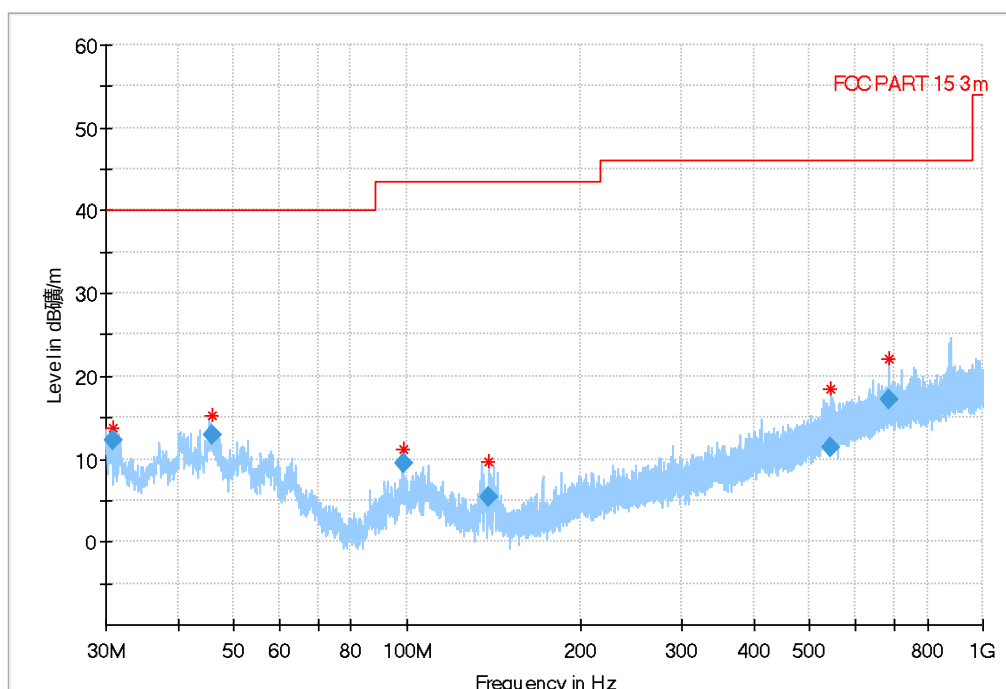


Fig.137 Radiated emission:11b, Ch11, 3GHz-18GHz

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Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873000	12.18	40.00	27.82	1000.0	120.000	105.0	V	120.0	-22.2
45.780500	12.84	40.00	27.16	1000.0	120.000	217.0	V	283.0	-18.3
98.288000	9.50	40.00	30.50	1000.0	120.000	166.0	H	135.0	-20.9
138.486000	5.43	40.00	34.58	1000.0	120.000	119.0	V	-39.0	-24.3
542.664500	11.48	47.00	35.52	1000.0	120.000	202.0	H	266.0	-11.2
687.523000	17.24	47.00	29.76	1000.0	120.000	303.0	H	-7.0	-8.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
30.873000	24:47 - 6/8/2021
45.780500	27:49 - 6/8/2021
98.288000	13:02 - 6/8/2021
138.486000	22:13 - 6/8/2021
542.664500	16:02 - 6/8/2021
687.523000	19:27 - 6/8/2021

Fig.138 Radiated emission: 11g,Ch1, 30MHz-1GHz

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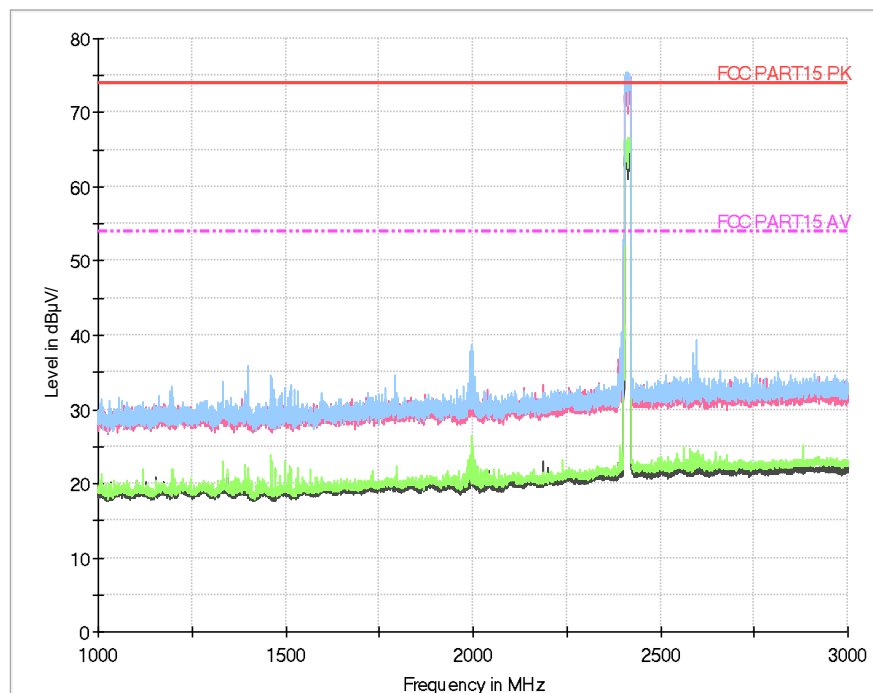


Fig.139 Radiated emission:11g, Ch1, 1GHz-3GHz

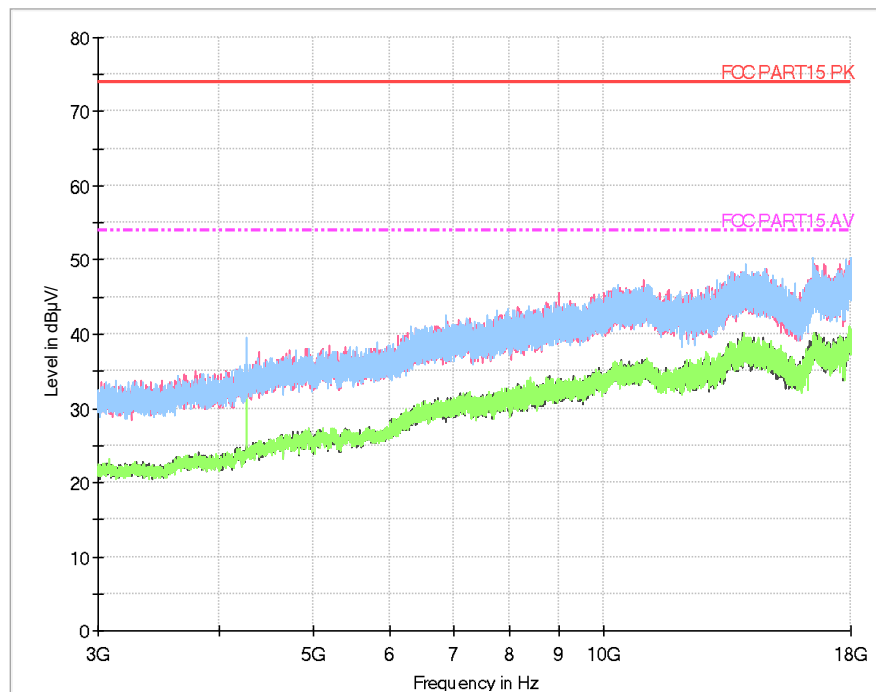
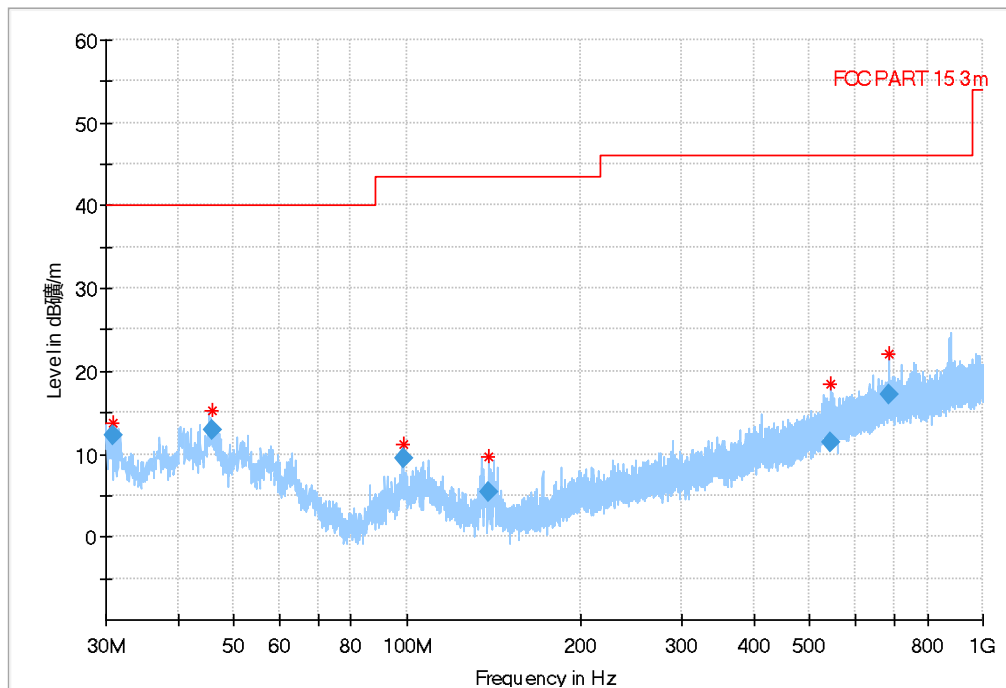


Fig.140 Radiated emission: 11g,Ch1, 3GHz-18GHz

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Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873000	12.18	40.00	27.82	1000.0	120.000	105.0	V	120.0	-22.2
45.780500	12.84	40.00	27.16	1000.0	120.000	217.0	V	283.0	-18.3
98.288000	9.50	40.00	30.50	1000.0	120.000	166.0	H	135.0	-20.9
138.486000	5.43	40.00	34.58	1000.0	120.000	119.0	V	-39.0	-24.3
542.664500	11.48	47.00	35.52	1000.0	120.000	202.0	H	266.0	-11.2
687.523000	17.24	47.00	29.76	1000.0	120.000	303.0	H	-7.0	-8.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
30.873000	24:47 - 6/8/2021
45.780500	27:49 - 6/8/2021
98.288000	13:02 - 6/8/2021
138.486000	22:13 - 6/8/2021
542.664500	16:02 - 6/8/2021
687.523000	19:27 - 6/8/2021

Fig.141 Radiated emission:11g,Ch6, 30MHz-1GHz

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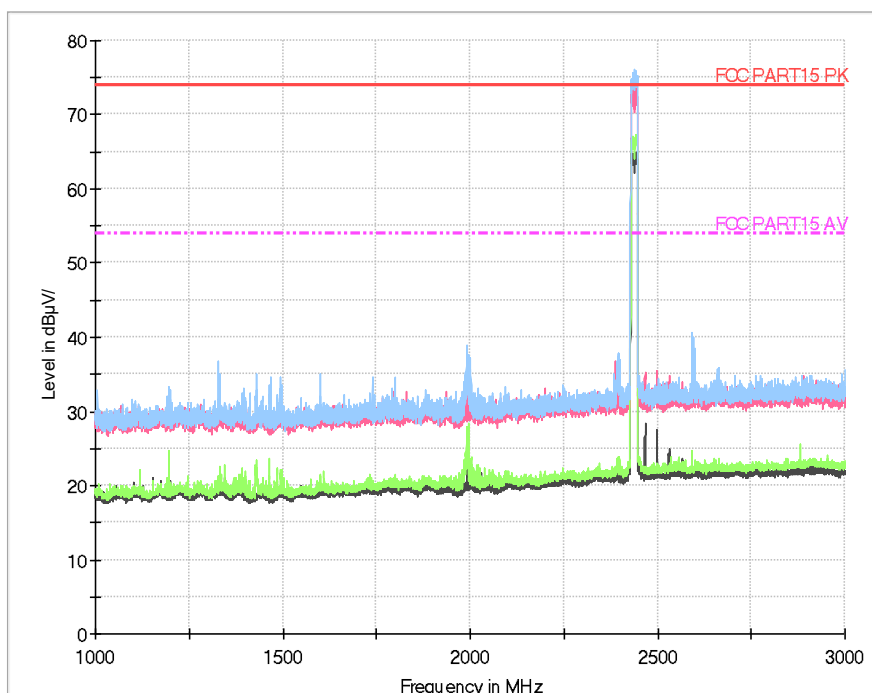


Fig.142 Radiated emission: 11g,Ch6, 1GHz-3GHz

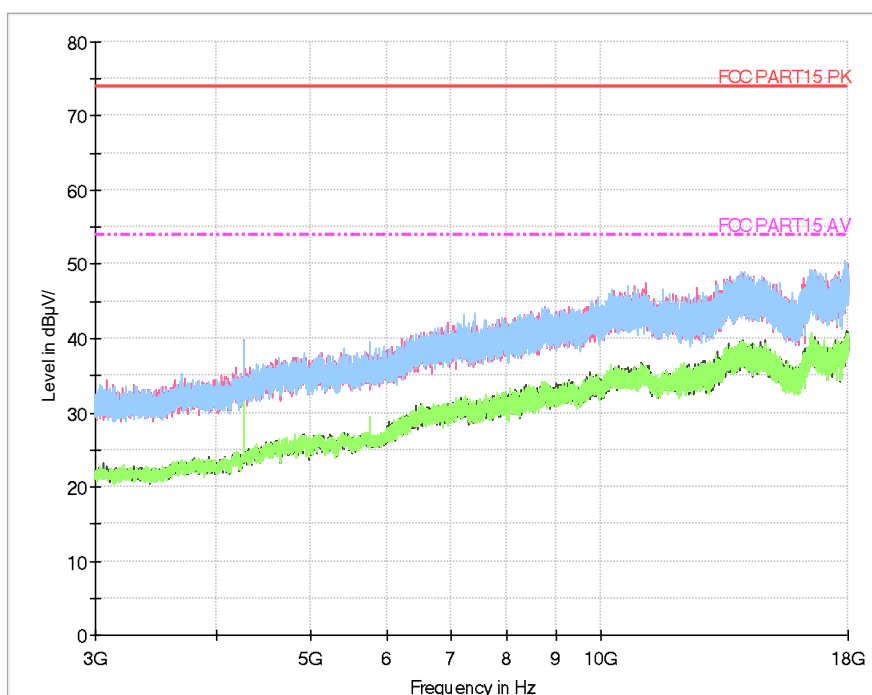
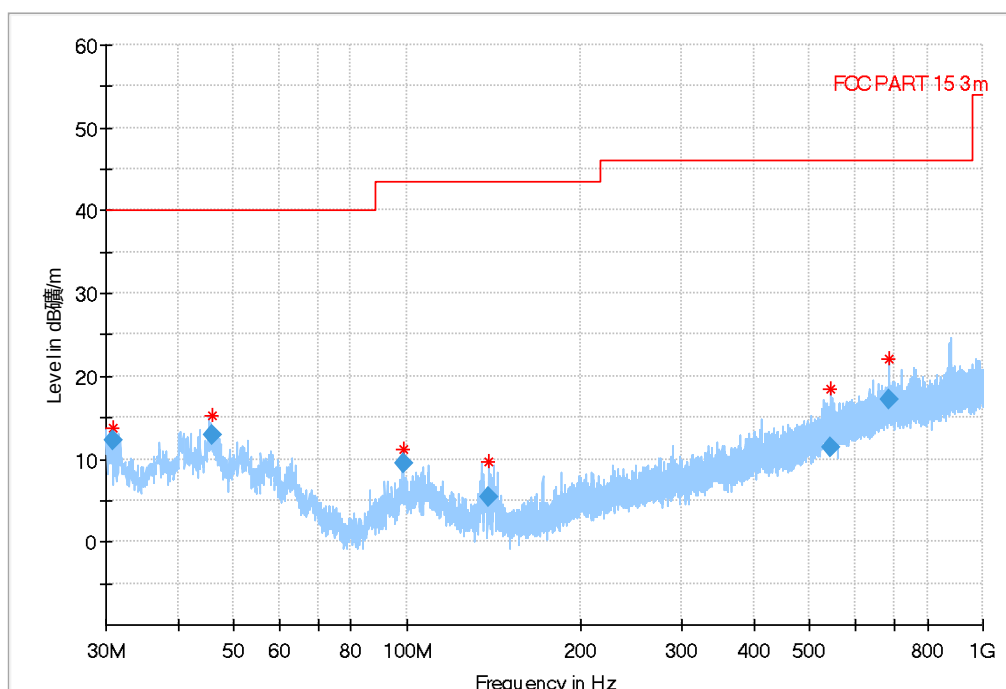


Fig.143 Radiated emission: 11g,Ch6, 3GHz-18GHz

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Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873000	12.18	40.00	27.82	1000.0	120.000	105.0	V	120.0	-22.2
45.780500	12.84	40.00	27.16	1000.0	120.000	217.0	V	283.0	-18.3
98.288000	9.50	40.00	30.50	1000.0	120.000	166.0	H	135.0	-20.9
138.486000	5.43	40.00	34.58	1000.0	120.000	119.0	V	-39.0	-24.3
542.664500	11.48	47.00	35.52	1000.0	120.000	202.0	H	266.0	-11.2
687.523000	17.24	47.00	29.76	1000.0	120.000	303.0	H	-7.0	-8.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
30.873000	24:47 - 6/8/2021
45.780500	27:49 - 6/8/2021
98.288000	13:02 - 6/8/2021
138.486000	22:13 - 6/8/2021
542.664500	16:02 - 6/8/2021
687.523000	19:27 - 6/8/2021

Fig.144 Radiated emission: 11g,Ch11, 30MHz-1GHz

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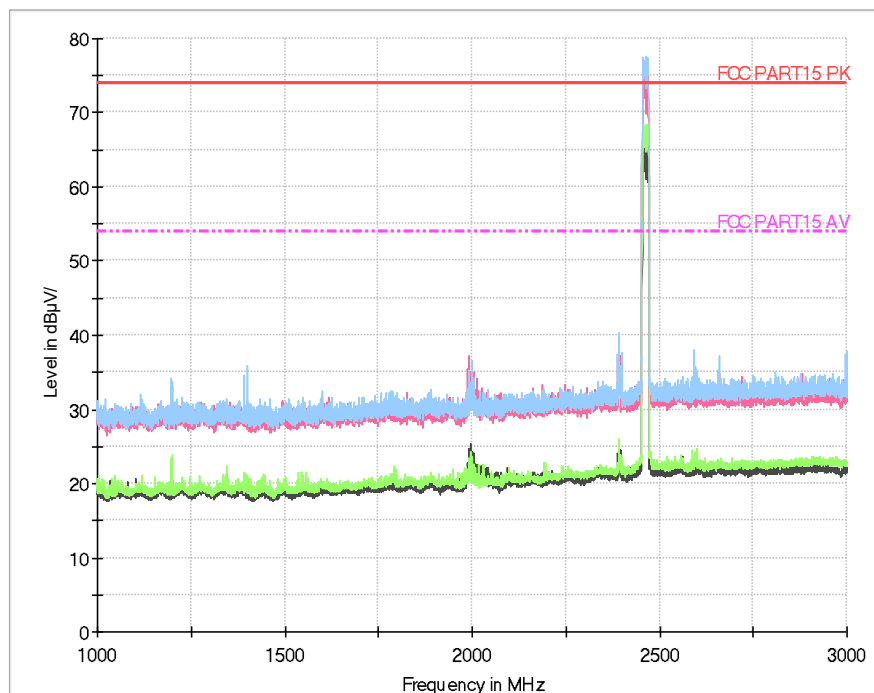


Fig.145 Radiated emission: 11g,Ch11, 1GHz-3GHz

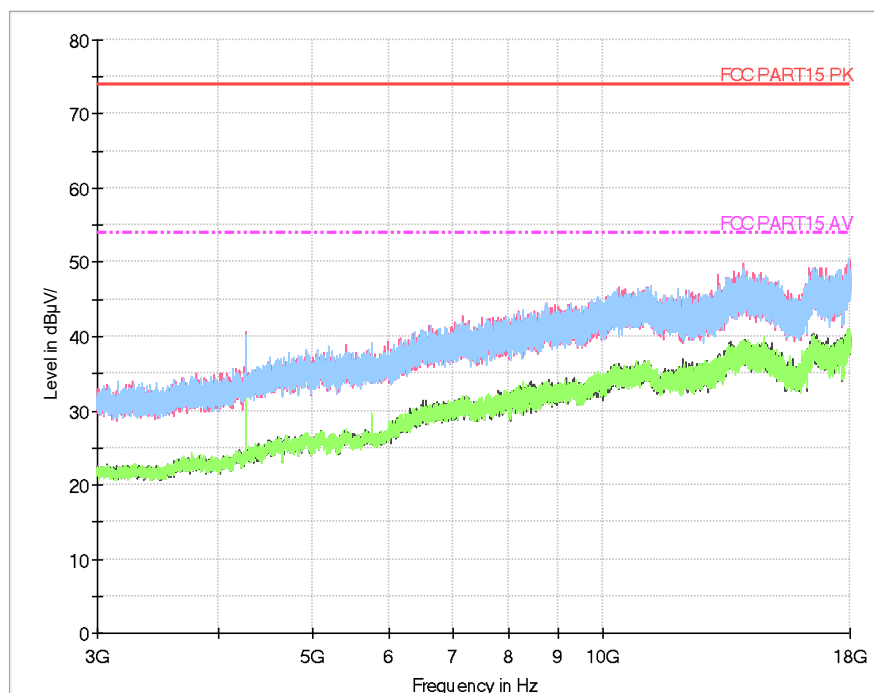
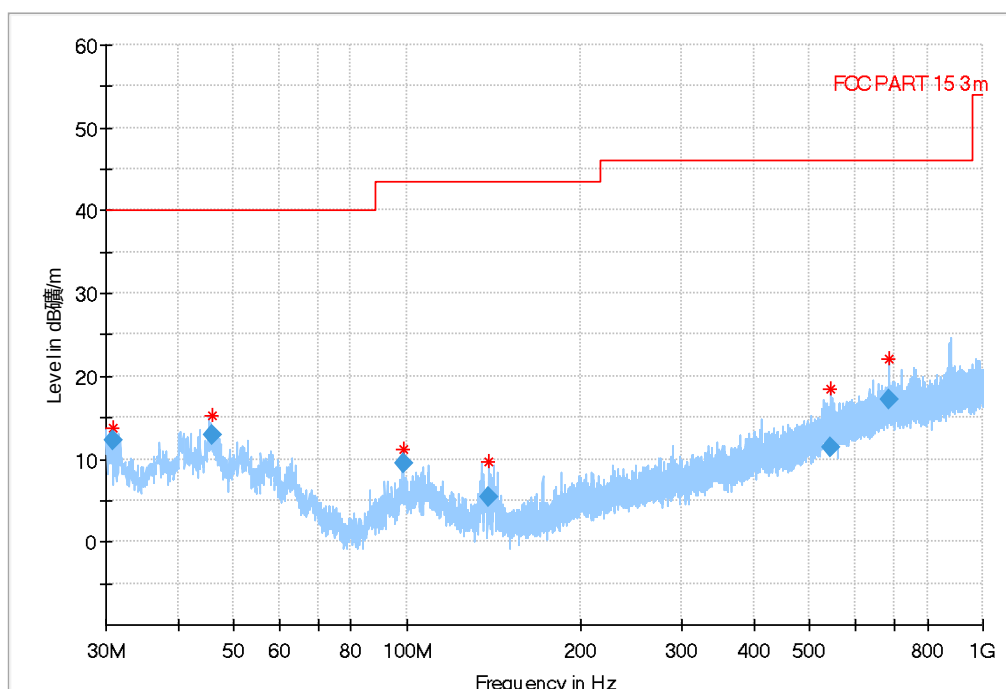


Fig.146 Radiated emission:11g, Ch11, 3GHz-18GHz

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Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873000	12.18	40.00	27.82	1000.0	120.000	105.0	V	120.0	-22.2
45.780500	12.84	40.00	27.16	1000.0	120.000	217.0	V	283.0	-18.3
98.288000	9.50	40.00	30.50	1000.0	120.000	166.0	H	135.0	-20.9
138.486000	5.43	40.00	34.58	1000.0	120.000	119.0	V	-39.0	-24.3
542.664500	11.48	47.00	35.52	1000.0	120.000	202.0	H	266.0	-11.2
687.523000	17.24	47.00	29.76	1000.0	120.000	303.0	H	-7.0	-8.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
30.873000	24:47 - 6/8/2021
45.780500	27:49 - 6/8/2021
98.288000	13:02 - 6/8/2021
138.486000	22:13 - 6/8/2021
542.664500	16:02 - 6/8/2021
687.523000	19:27 - 6/8/2021

Fig.147 Radiated emission: 11n,20M,Ch1, 30MHz-1GHz

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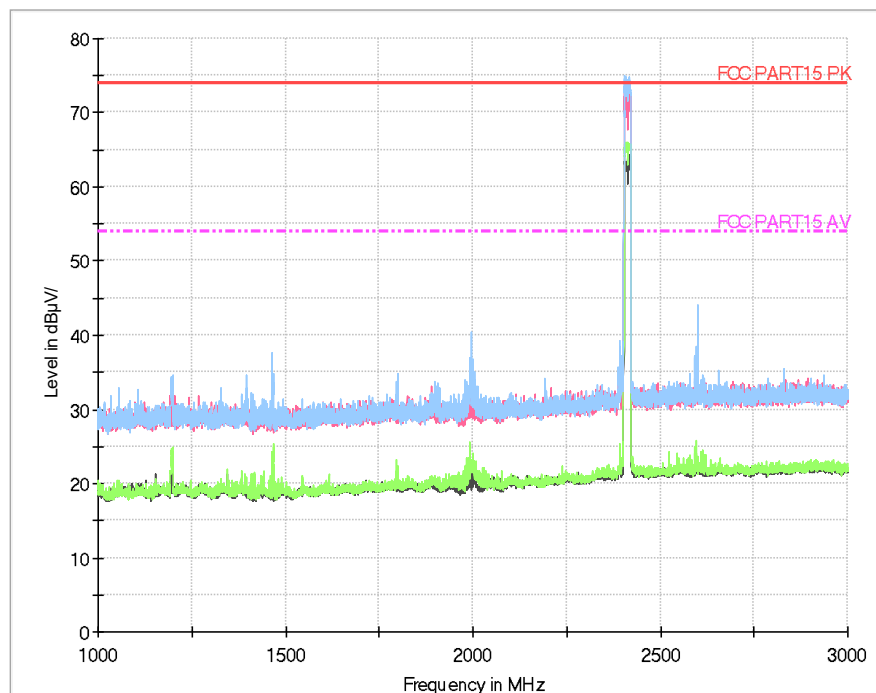


Fig.148 Radiated emission:11n, 20M,Ch1, 1GHz-3GHz

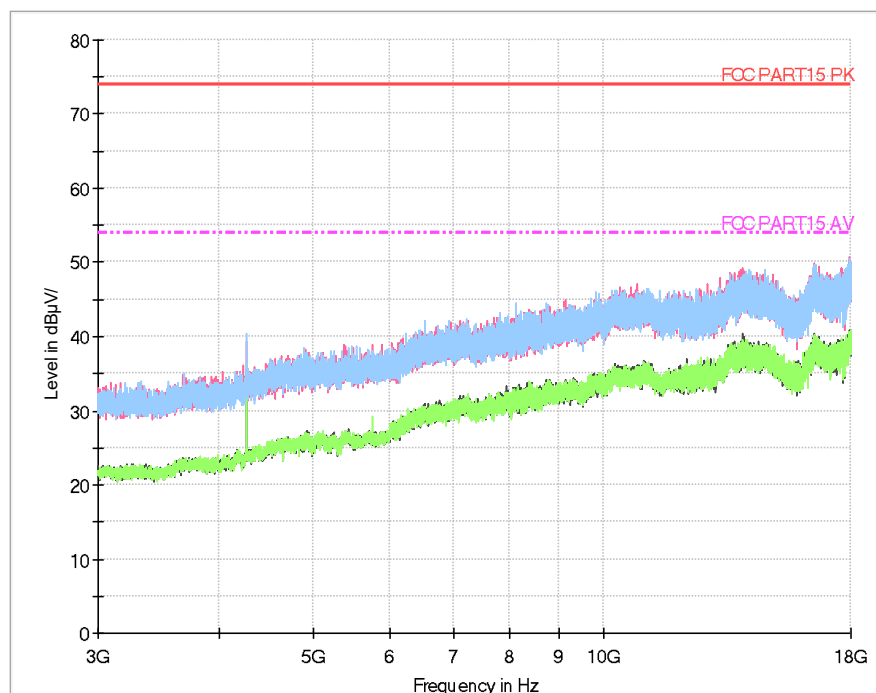
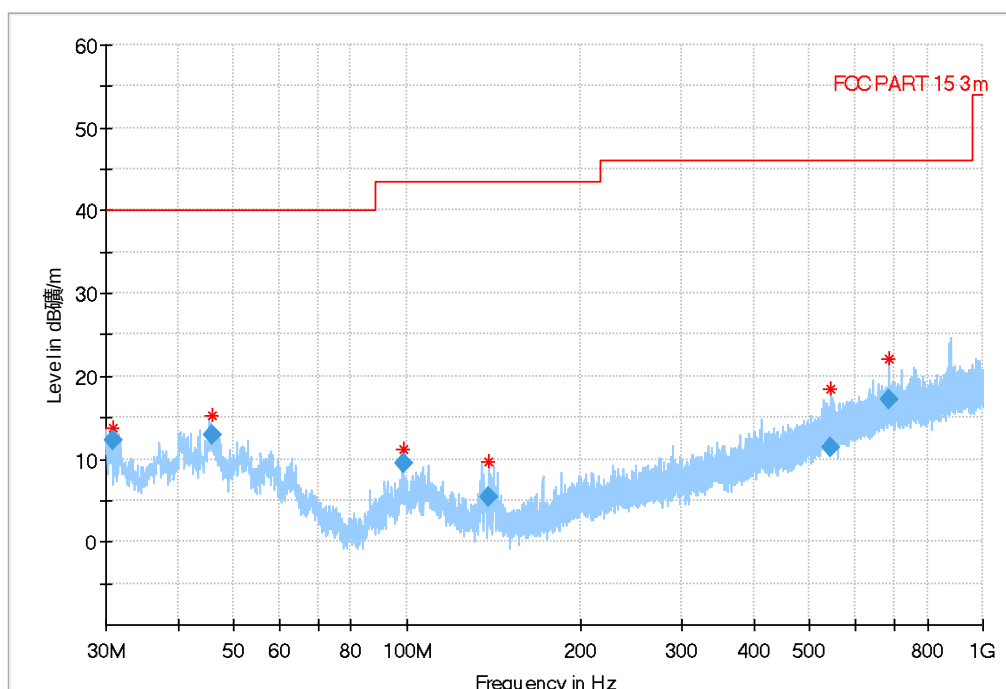


Fig.149 Radiated emission: 11n,20M,Ch1, 3GHz-18GHz

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Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873000	12.18	40.00	27.82	1000.0	120.000	105.0	V	120.0	-22.2
45.780500	12.84	40.00	27.16	1000.0	120.000	217.0	V	283.0	-18.3
98.288000	9.50	40.00	30.50	1000.0	120.000	166.0	H	135.0	-20.9
138.486000	5.43	40.00	34.58	1000.0	120.000	119.0	V	-39.0	-24.3
542.664500	11.48	47.00	35.52	1000.0	120.000	202.0	H	266.0	-11.2
687.523000	17.24	47.00	29.76	1000.0	120.000	303.0	H	-7.0	-8.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
30.873000	24:47 - 6/8/2021
45.780500	27:49 - 6/8/2021
98.288000	13:02 - 6/8/2021
138.486000	22:13 - 6/8/2021
542.664500	16:02 - 6/8/2021
687.523000	19:27 - 6/8/2021

Fig.150 Radiated emission:11n,20M,Ch6, 30MHz-1GHz

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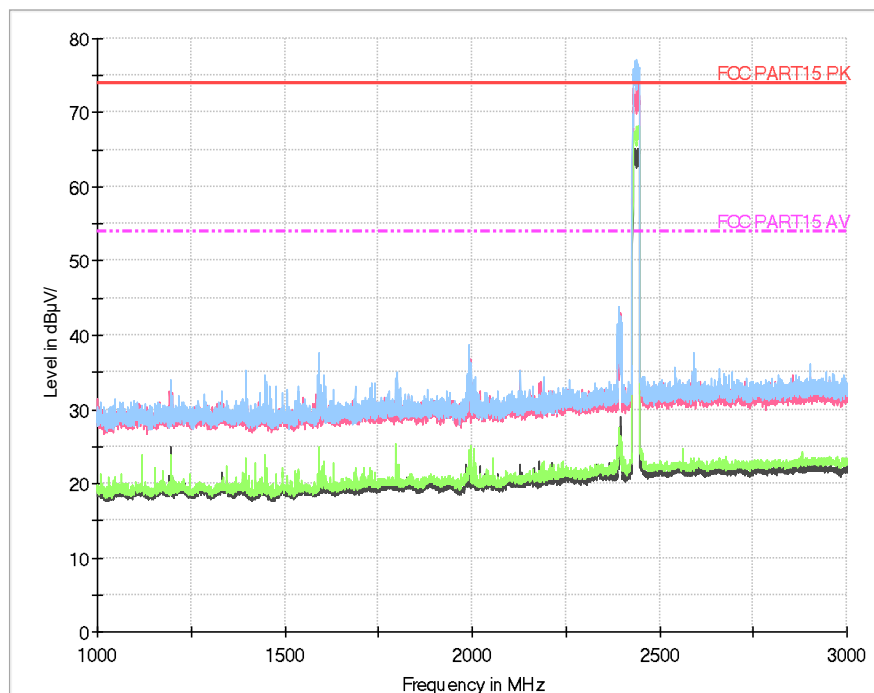


Fig.151 Radiated emission: 11n,20M,Ch6, 1GHz-3GHz

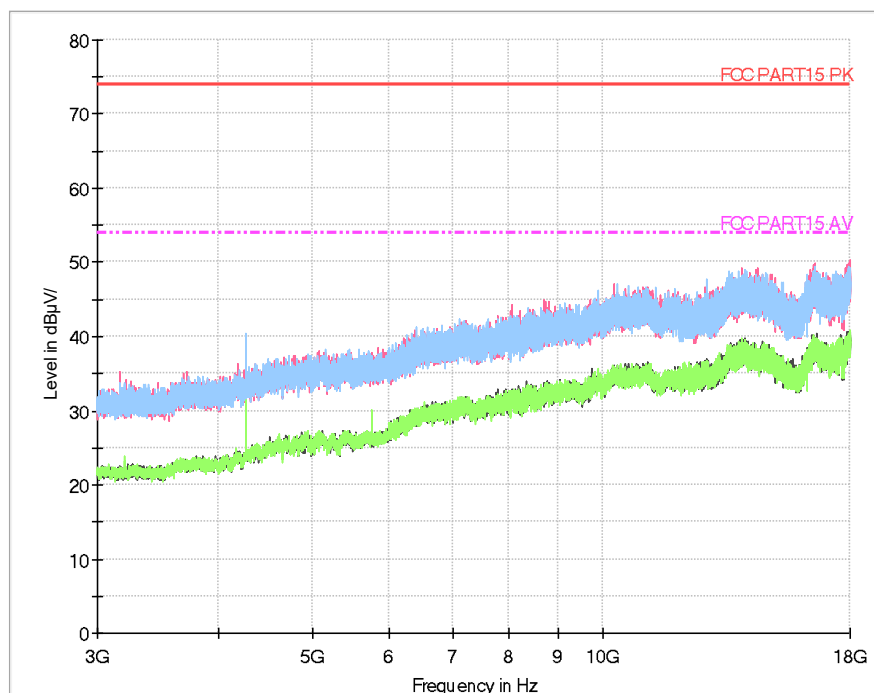
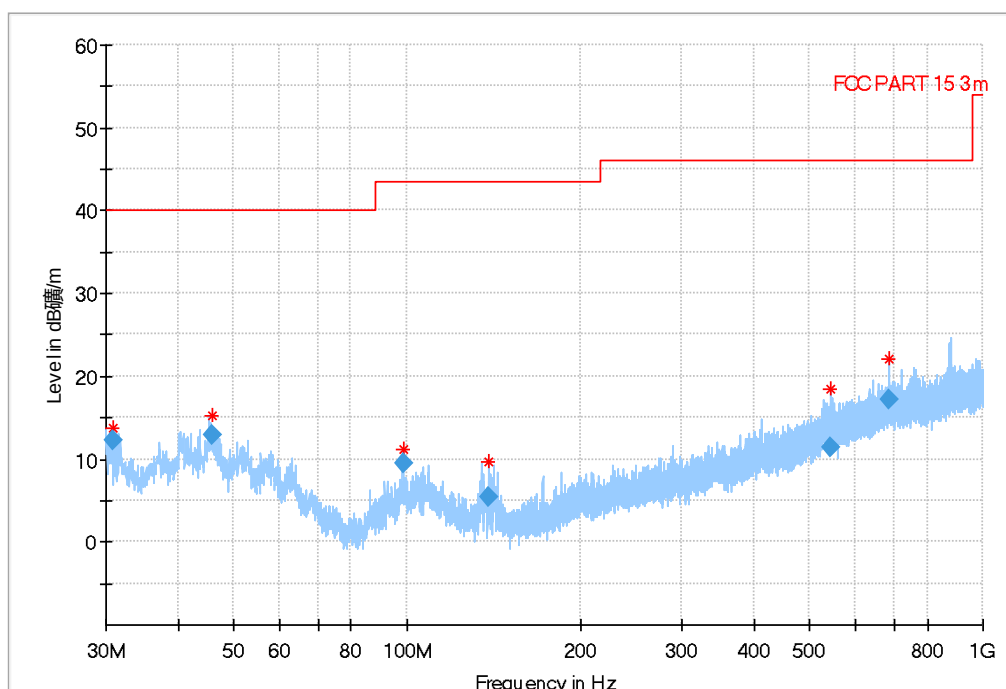


Fig.152 Radiated emission: 11n,20M,Ch6, 3GHz-18GHz

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Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873000	12.18	40.00	27.82	1000.0	120.000	105.0	V	120.0	-22.2
45.780500	12.84	40.00	27.16	1000.0	120.000	217.0	V	283.0	-18.3
98.288000	9.50	40.00	30.50	1000.0	120.000	166.0	H	135.0	-20.9
138.486000	5.43	40.00	34.58	1000.0	120.000	119.0	V	-39.0	-24.3
542.664500	11.48	47.00	35.52	1000.0	120.000	202.0	H	266.0	-11.2
687.523000	17.24	47.00	29.76	1000.0	120.000	303.0	H	-7.0	-8.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
30.873000	24:47 - 6/8/2021
45.780500	27:49 - 6/8/2021
98.288000	13:02 - 6/8/2021
138.486000	22:13 - 6/8/2021
542.664500	16:02 - 6/8/2021
687.523000	19:27 - 6/8/2021

Fig.153 Radiated emission: 11n,20M,Ch11, 30MHz-1GHz

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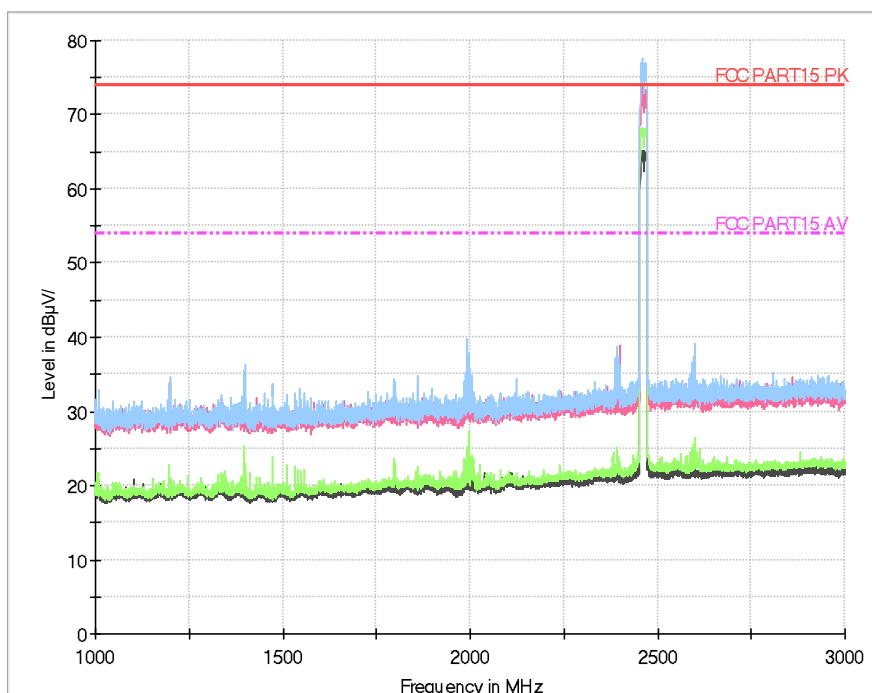


Fig.154 Radiated emission: 11n,20M,Ch11, 1GHz-3GHz

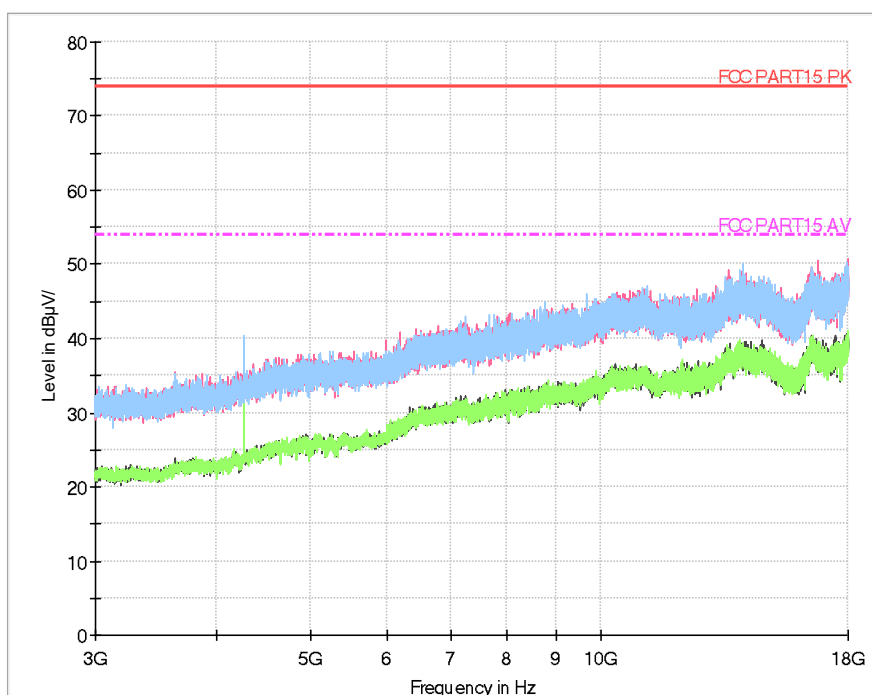
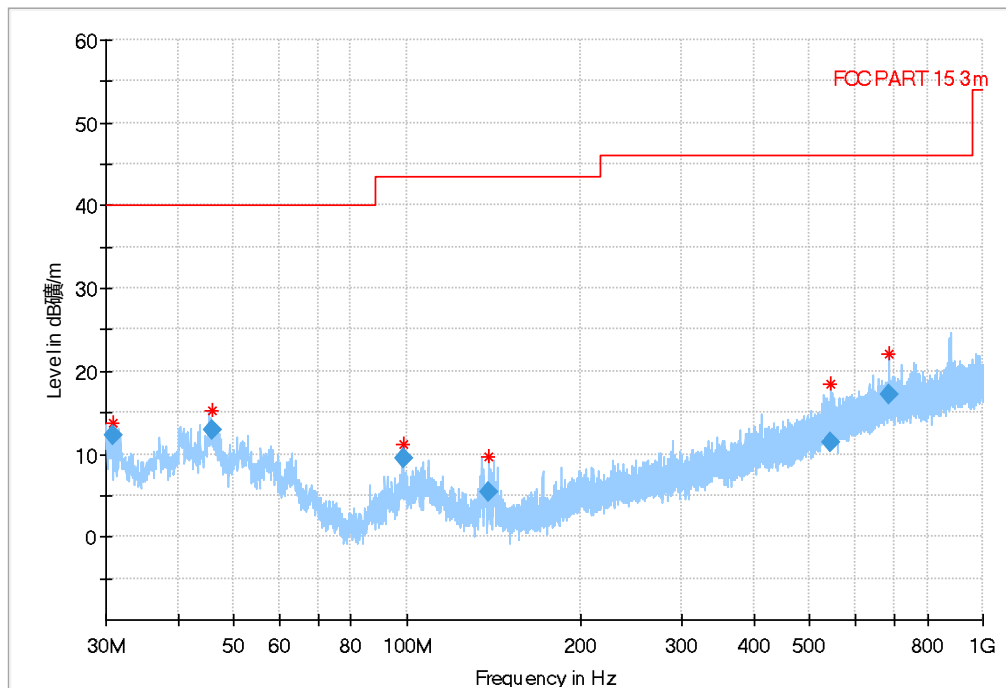


Fig.155 Radiated emission:11n,20M, Ch11, 3GHz-18GHz

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Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873000	12.18	40.00	27.82	1000.0	120.000	105.0	V	120.0	-22.2
45.780500	12.84	40.00	27.16	1000.0	120.000	217.0	V	283.0	-18.3
98.288000	9.50	40.00	30.50	1000.0	120.000	166.0	H	135.0	-20.9
138.486000	5.43	40.00	34.58	1000.0	120.000	119.0	V	-39.0	-24.3
542.664500	11.48	47.00	35.52	1000.0	120.000	202.0	H	266.0	-11.2
687.523000	17.24	47.00	29.76	1000.0	120.000	303.0	H	-7.0	-8.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
30.873000	24:47 - 6/8/2021
45.780500	27:49 - 6/8/2021
98.288000	13:02 - 6/8/2021
138.486000	22:13 - 6/8/2021
542.664500	16:02 - 6/8/2021
687.523000	19:27 - 6/8/2021

Fig.156 Radiated emission: 11n,40M,Ch3, 30MHz-1GHz

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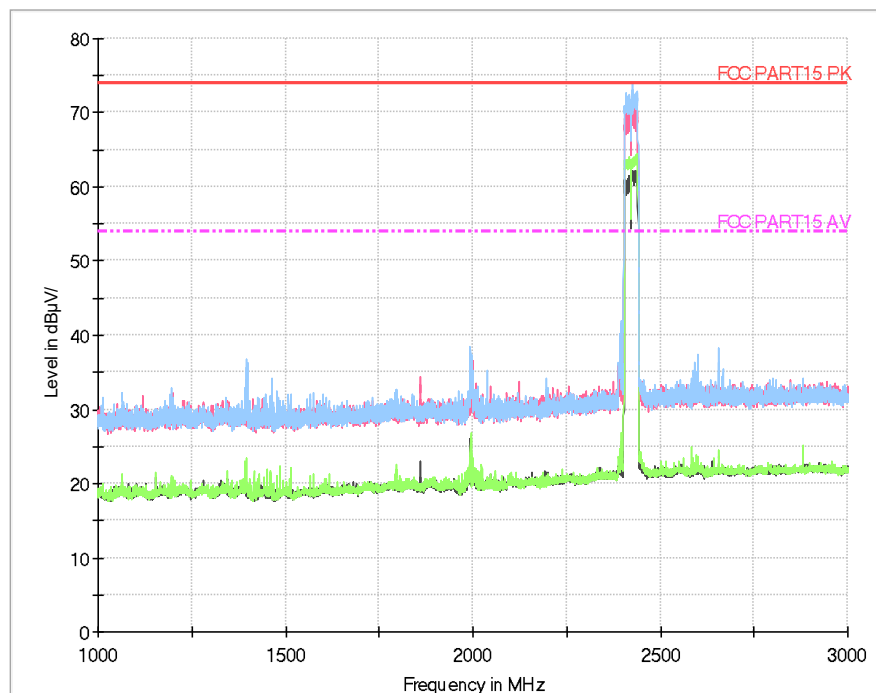


Fig.157 Radiated emission:11n, 40M,Ch3, 1GHz-3GHz

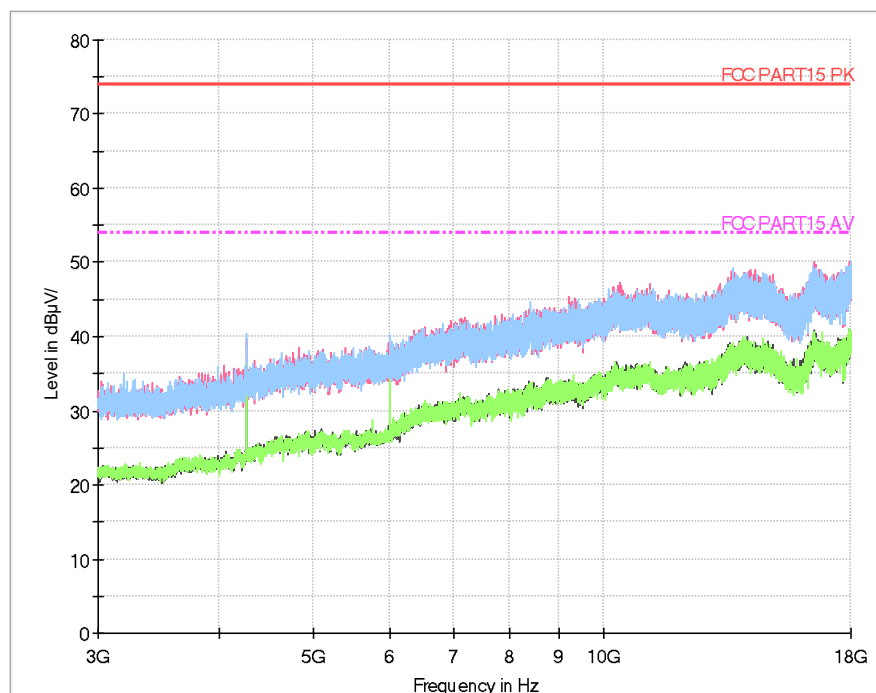
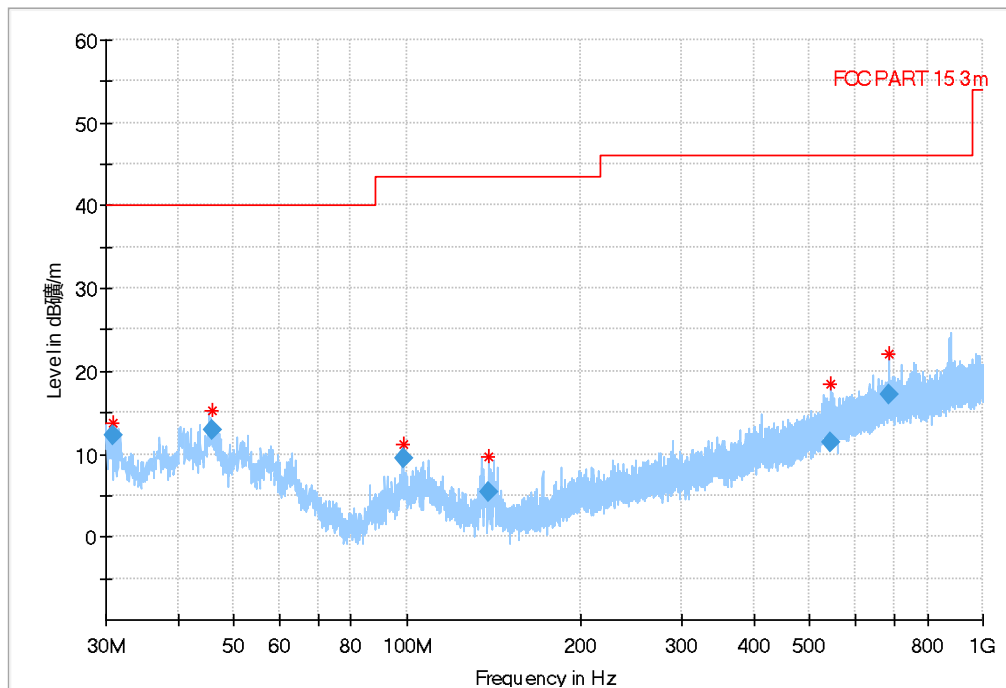


Fig.158 Radiated emission: 11n,40M,Ch3, 3GHz-18GHz

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Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873000	12.18	40.00	27.82	1000.0	120.000	105.0	V	120.0	-22.2
45.780500	12.84	40.00	27.16	1000.0	120.000	217.0	V	283.0	-18.3
98.288000	9.50	40.00	30.50	1000.0	120.000	166.0	H	135.0	-20.9
138.486000	5.43	40.00	34.58	1000.0	120.000	119.0	V	-39.0	-24.3
542.664500	11.48	47.00	35.52	1000.0	120.000	202.0	H	266.0	-11.2
687.523000	17.24	47.00	29.76	1000.0	120.000	303.0	H	-7.0	-8.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
30.873000	24:47 - 6/8/2021
45.780500	27:49 - 6/8/2021
98.288000	13:02 - 6/8/2021
138.486000	22:13 - 6/8/2021
542.664500	16:02 - 6/8/2021
687.523000	19:27 - 6/8/2021

Fig.159 Radiated emission:11n,40M,Ch7, 30MHz-1GHz

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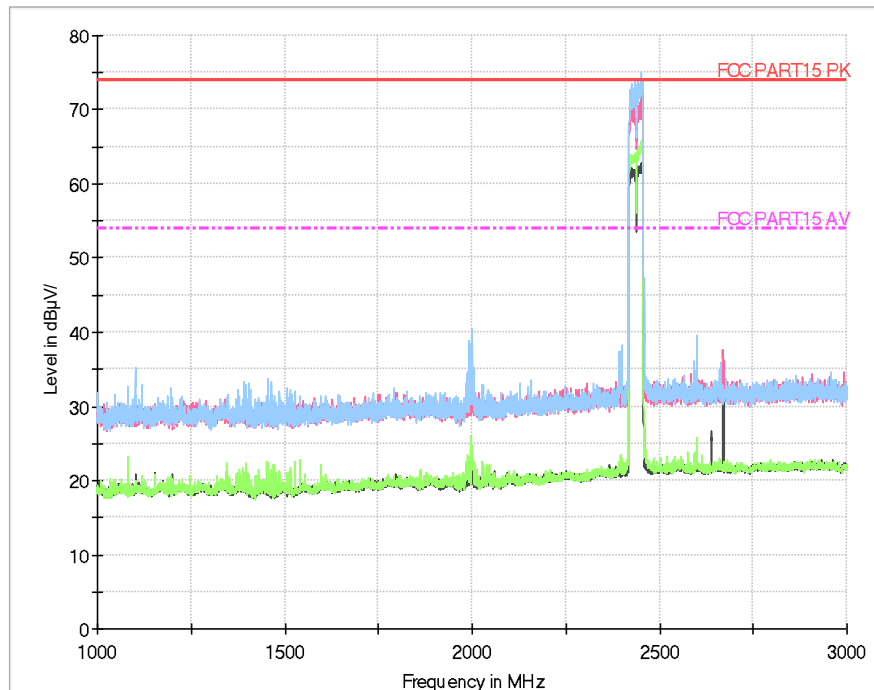


Fig.160 Radiated emission: 11n,40M,Ch7, 1GHz-3GHz

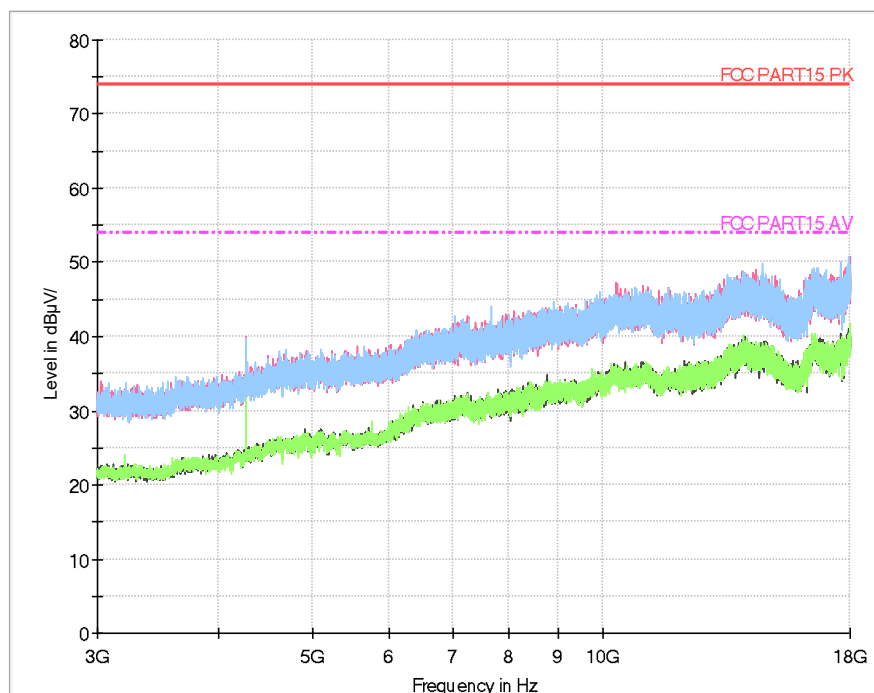
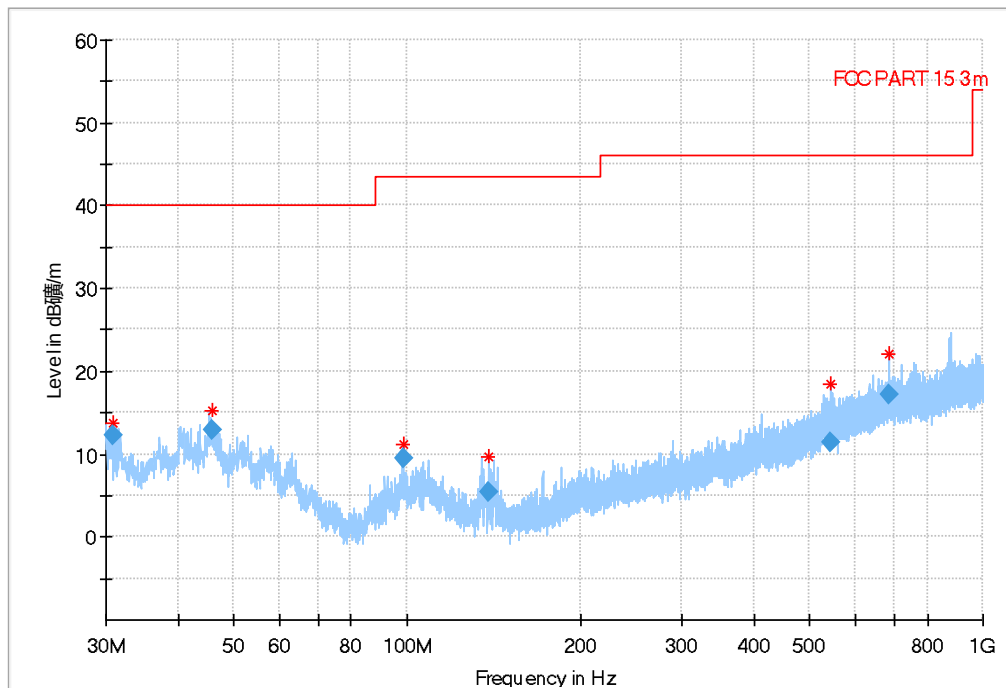


Fig.161 Radiated emission: 11n,40M,Ch7, 3GHz-18GHz

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Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873000	12.18	40.00	27.82	1000.0	120.000	105.0	V	120.0	-22.2
45.780500	12.84	40.00	27.16	1000.0	120.000	217.0	V	283.0	-18.3
98.288000	9.50	40.00	30.50	1000.0	120.000	166.0	H	135.0	-20.9
138.486000	5.43	40.00	34.58	1000.0	120.000	119.0	V	-39.0	-24.3
542.664500	11.48	47.00	35.52	1000.0	120.000	202.0	H	266.0	-11.2
687.523000	17.24	47.00	29.76	1000.0	120.000	303.0	H	-7.0	-8.7

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Comment
30.873000	24:47 - 6/8/2021
45.780500	27:49 - 6/8/2021
98.288000	13:02 - 6/8/2021
138.486000	22:13 - 6/8/2021
542.664500	16:02 - 6/8/2021
687.523000	19:27 - 6/8/2021

Fig.162 Radiated emission: 11n,40M,Ch11, 30MHz-1GHz

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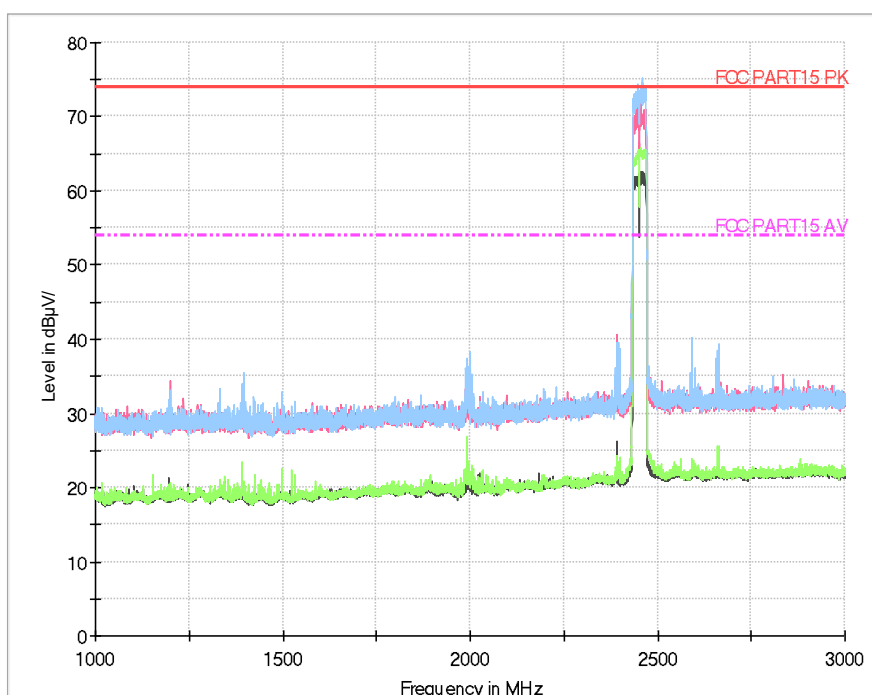


Fig.163 Radiated emission: 11n,40M,Ch11, 1GHz-3GHz

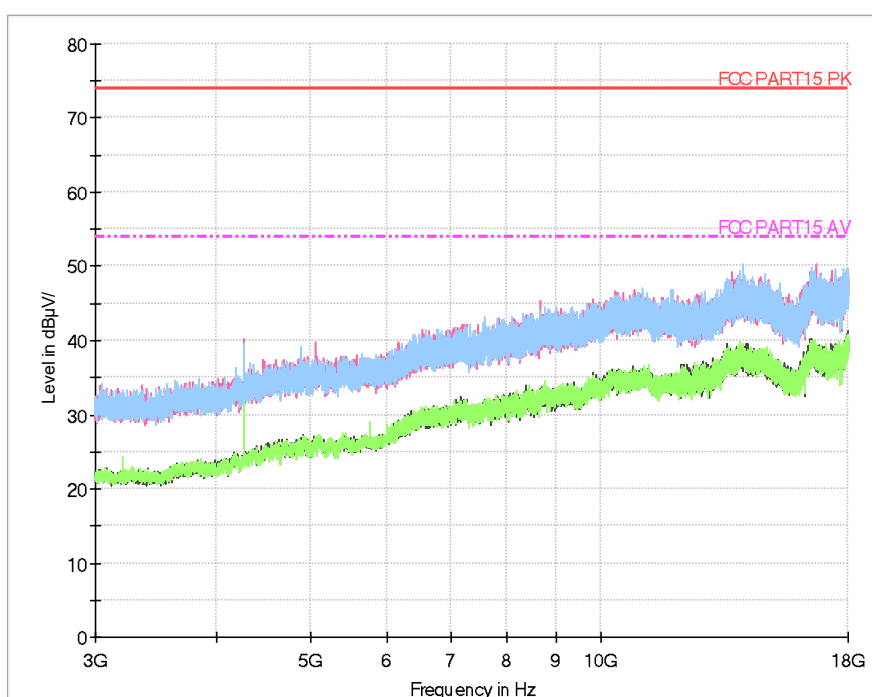


Fig.164 Radiated emission:11n,40M, Ch11, 3GHz-18GHz

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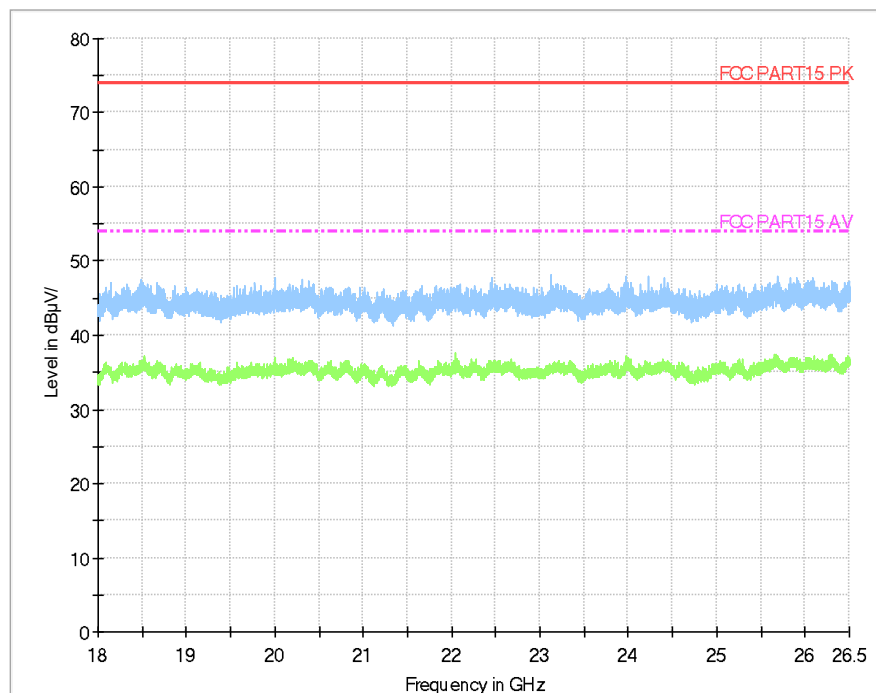


Fig.165 Radiated emission:18GHz-26GHz

Test photo

See the Pic1- Pic 2 in document" PA31 _Wifi_BT_Test Setup Photos".

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Report No.:I21W00014-WLAN_Rev3**5.8 Power line Conducted Emissions**

Specifications:	ANSI C63.10 voltage mains test
DUT Serial Number:	866884045657848
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

The EUT meets the requirement of having a peak to average ratio of less than 13dB.

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Measurement Uncertainty:

Frequency Range	Uncertainty
150 kHz to 30 MHz	1.91

Limits of the conducted disturbance at the AC mains ports:

Frequency range	Limit(Quasi-peak)	Limit(Average)
0.15 MHz to 0.5 MHz	66 dB μ V – 56 dB μ V	56 dB μ V – 46 dB μ V
>0.5 MHz to 5MHz	56 dB μ V	46 dB μ V
>5 MHz to 30 MHz	60 dB μ V	50 dB μ V
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

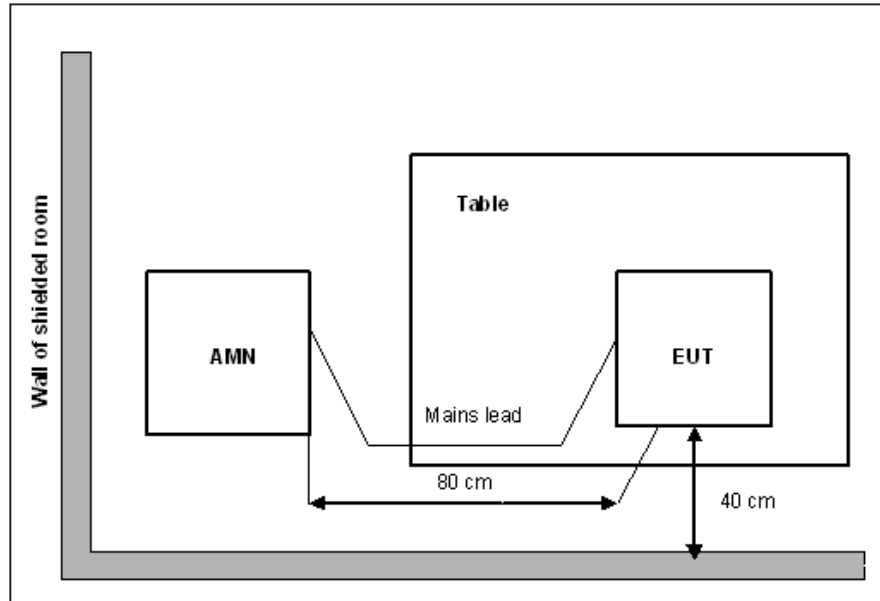
Test Setup

The EUT was placed in a shielding room. The WLAN TESTER was used to set the TX channel and power level. The ac adapter output is connected to Receiver through an AMN (Artificial Mains Network).

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Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

The measurement is made according to ANSI C63.10-2013.

Test Result:

Line L&N

Conclusion: PASS

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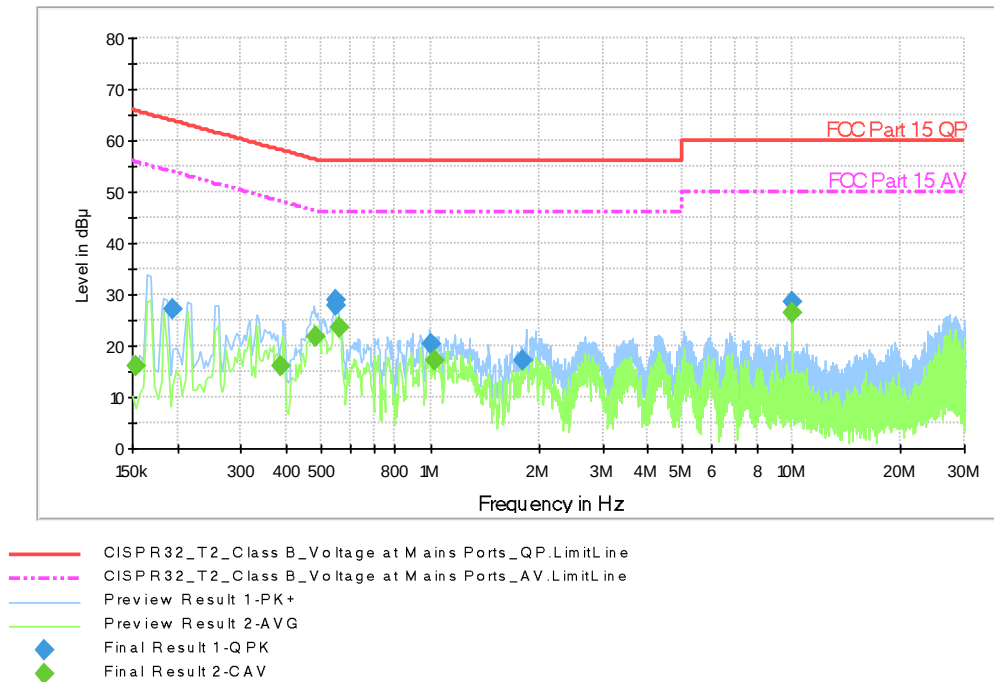
Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit dB μ V	Comment
0.194000	27.0	1000.0	9.000	ON	N	9.7	36.8	63.9	
0.547244	27.9	1000.0	9.000	ON	L1	9.7	28.1	56.0	
0.548350	28.8	1000.0	9.000	ON	N	9.7	27.2	56.0	
1.010994	20.3	1000.0	9.000	ON	N	9.7	35.7	56.0	
1.801719	17.0	1000.0	9.000	ON	N	9.7	39.0	56.0	
9.998500	28.6	1000.0	9.000	ON	L1	9.9	31.4	60.0	

Final Result 2

Frequency (MHz)	Average (dB μ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit dB μ V	Comment
0.154000	16.0	1000.0	9.000	ON	N	9.5	39.8	55.8	
0.386831	16.2	1000.0	9.000	ON	N	9.7	32.0	48.1	
0.482531	21.9	1000.0	9.000	ON	N	9.7	24.4	46.3	
0.559244	23.4	1000.0	9.000	ON	N	9.7	22.6	46.0	
1.023500	17.1	1000.0	9.000	ON	N	9.7	28.9	46.0	
9.998500	26.3	1000.0	9.000	ON	L1	9.9	23.7	50.0	

QSPR N&L1 Voltage 150k to 30MHz-Class B



Line L& N

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Test photo

See the Pic3 in document” PA31 _Wifi Test Setup Photos”.

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Annex A EUT Photos

See the document'' PA31 -External Photos''.

See the document'' PA31 -Internal Photos''.

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ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****End Of Report*****

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