

Test Report No.50095018 50095066 001

Appendix D: Radiated and Mains Spurious Emission Data

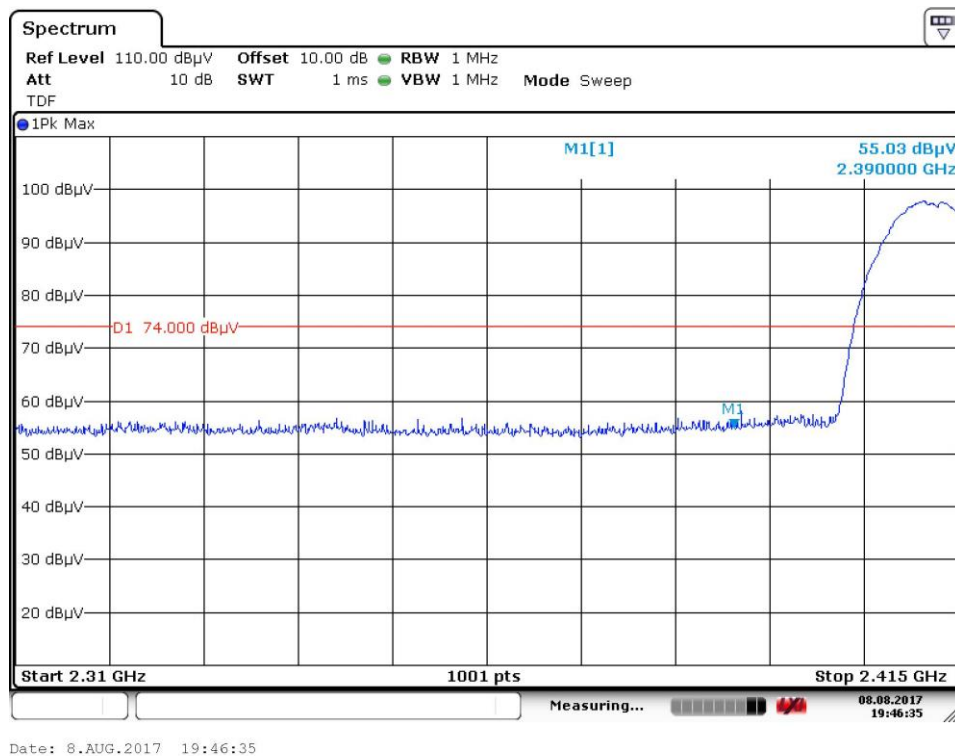
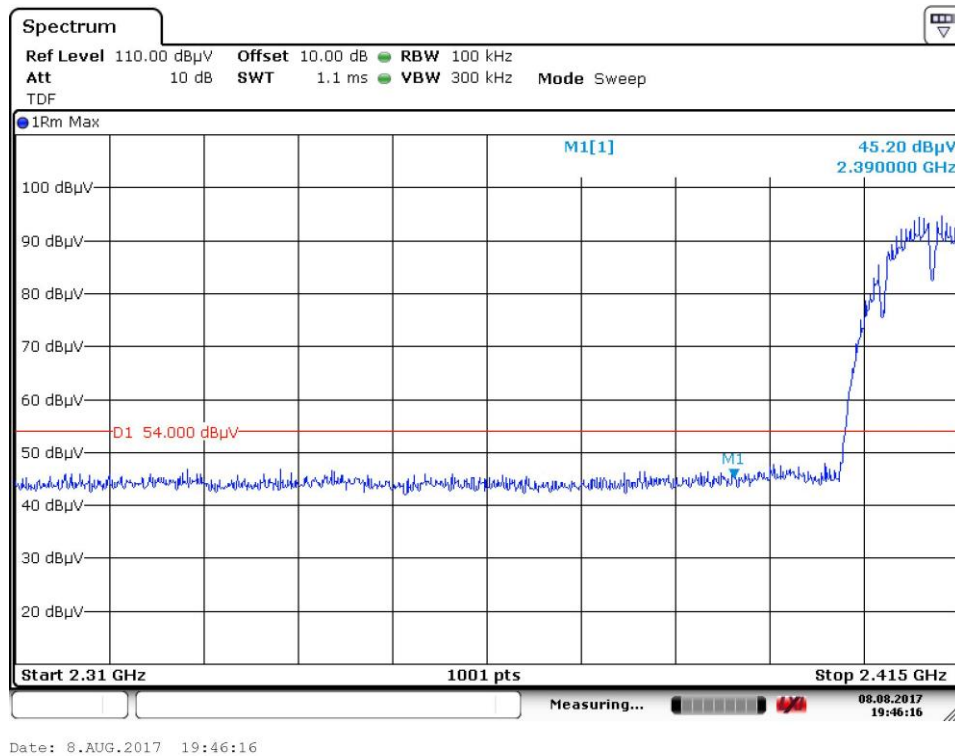
(File: 50095018 50095066AppendixD)

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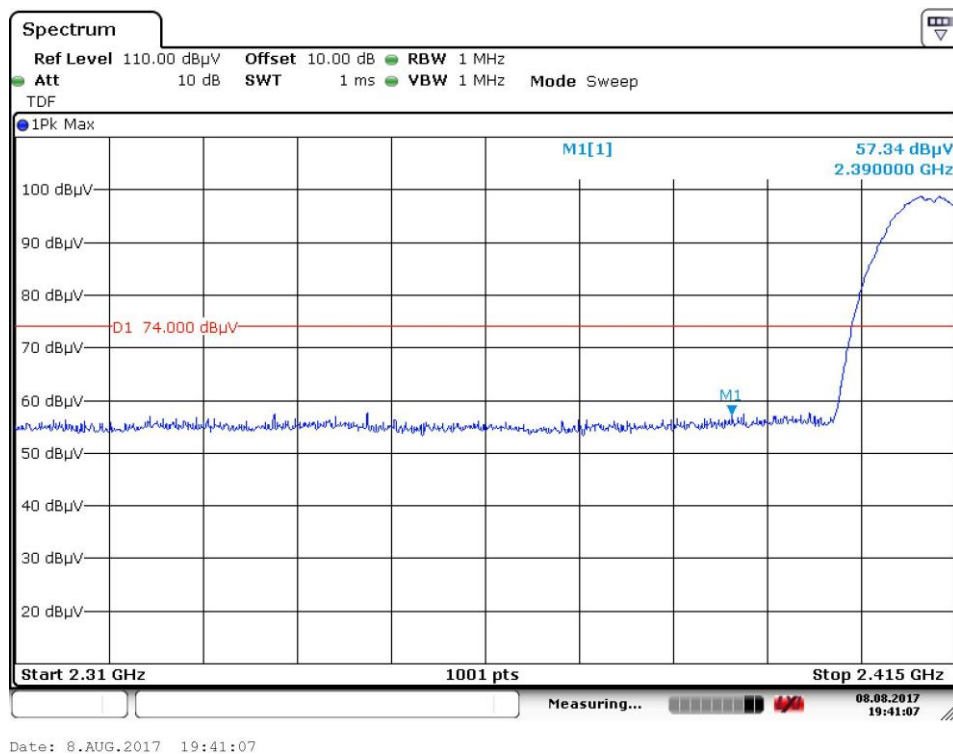
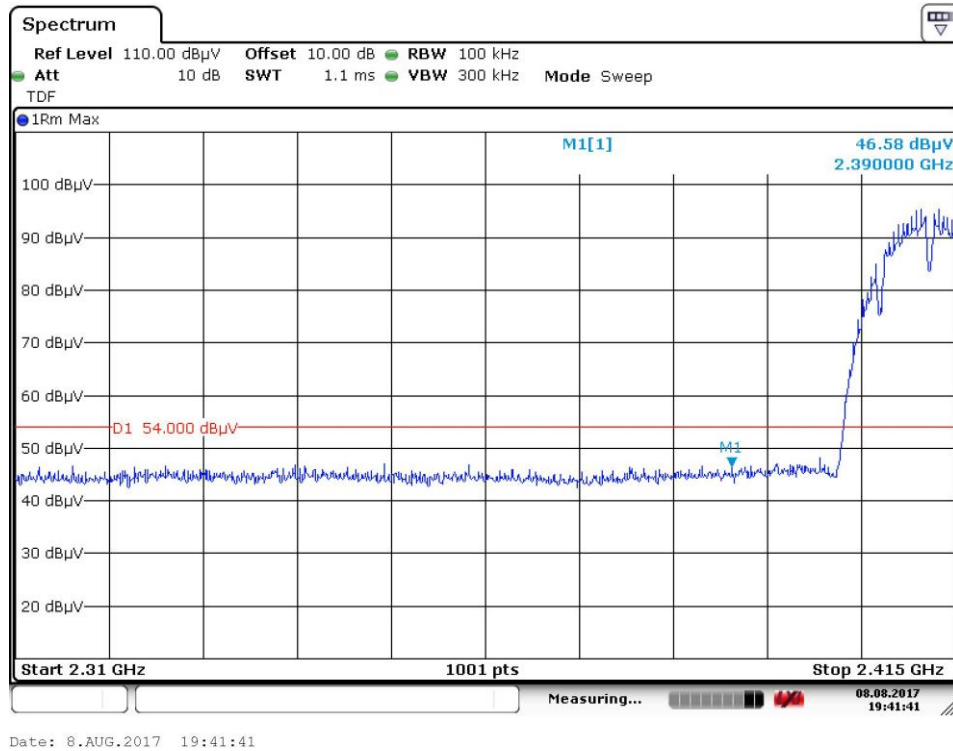
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Radiated Bandedge 11b

Low Channel (Hor) 2412

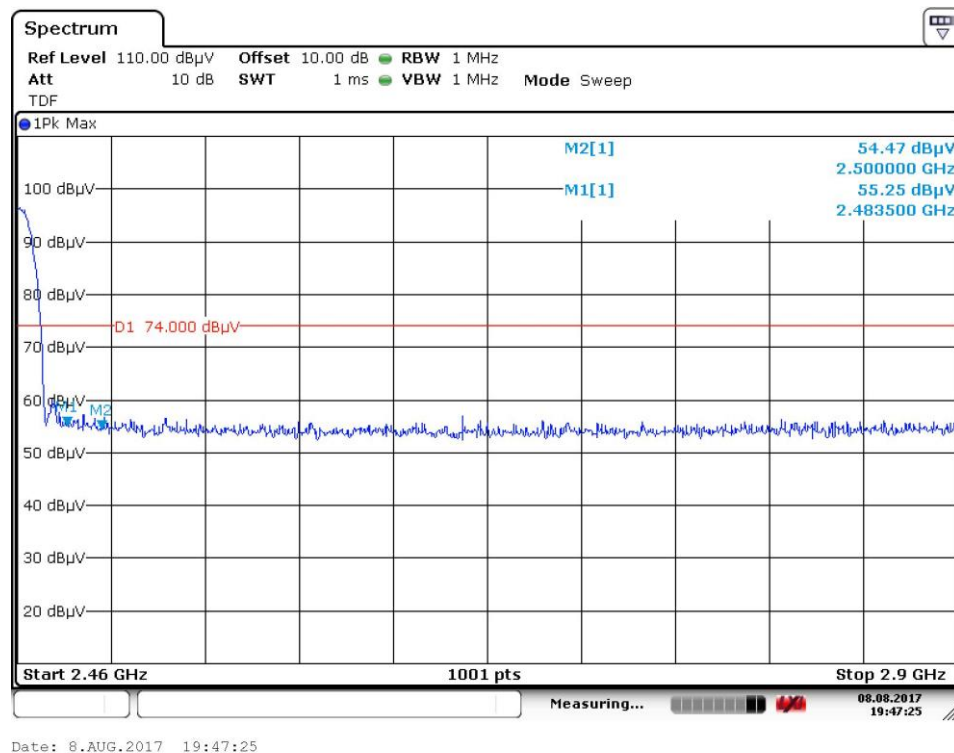
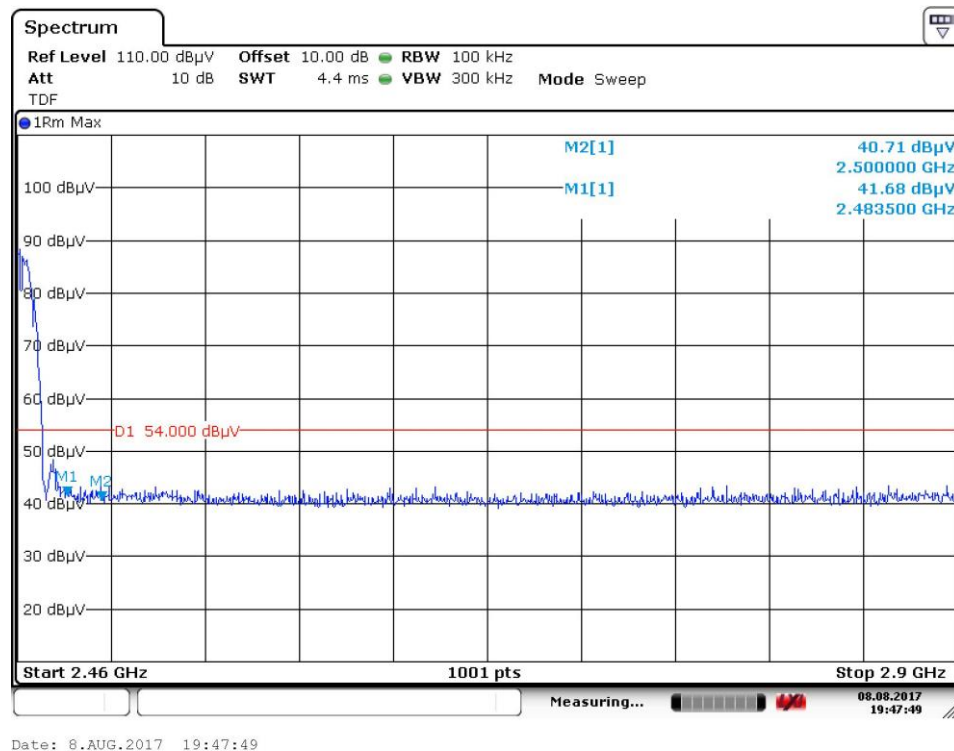


Low Channel (Ver) 2412

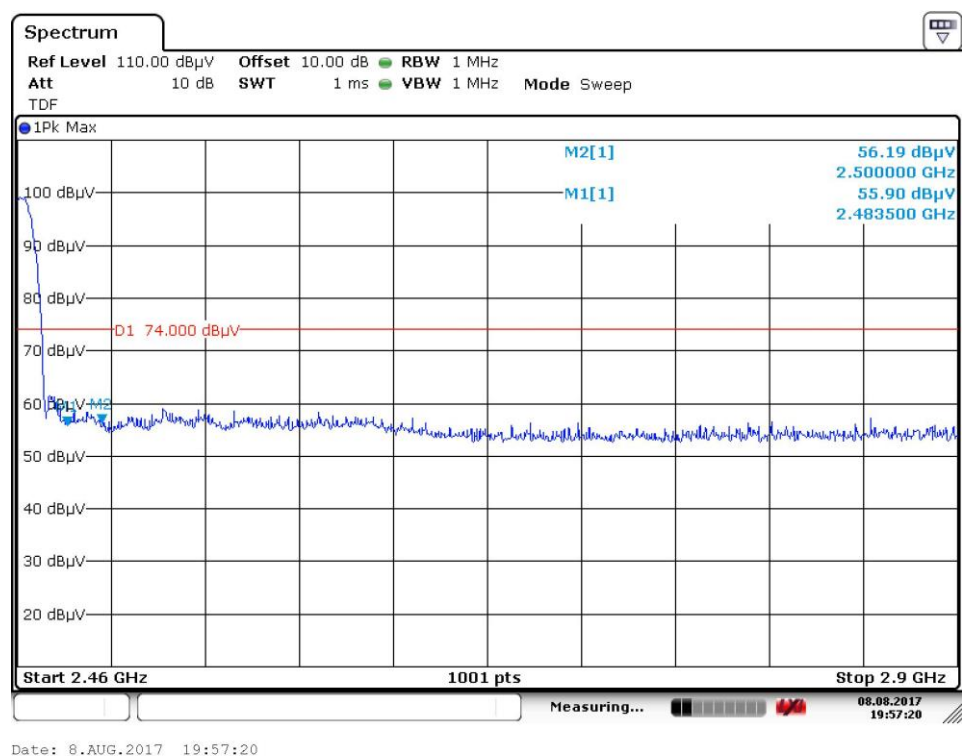
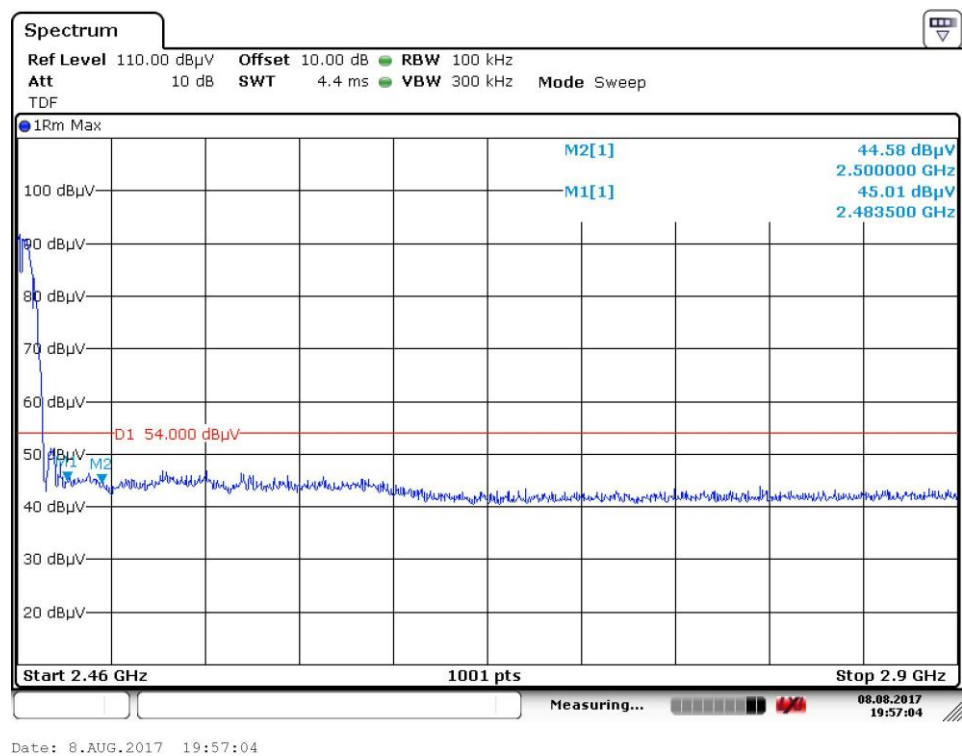


Radiated Bandedge 11b

High Channel (Hor) 2462

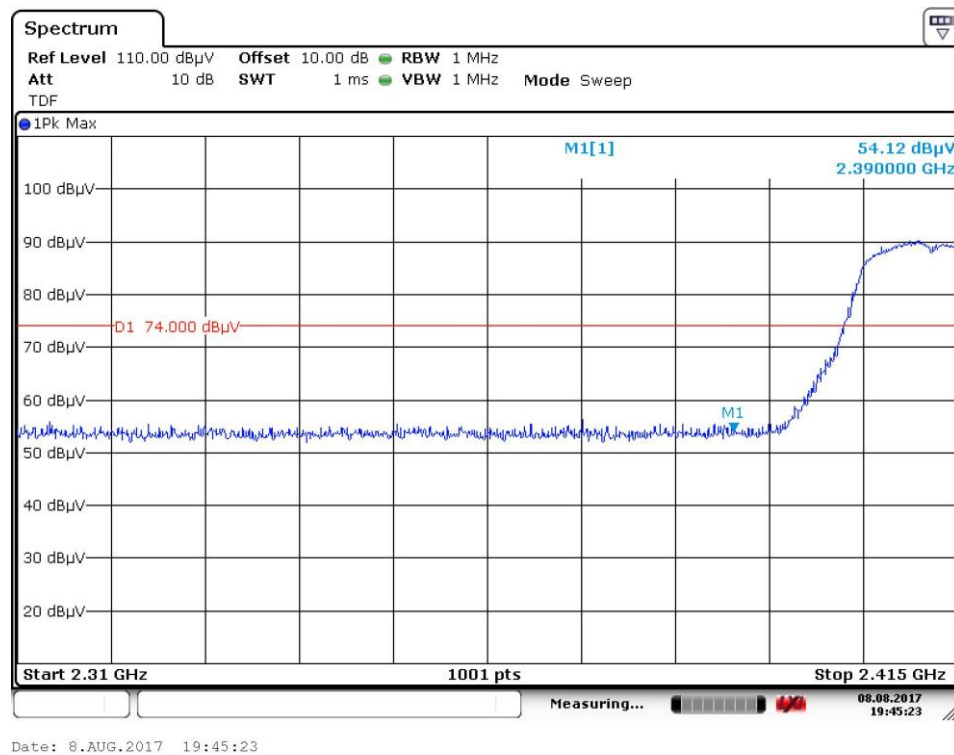
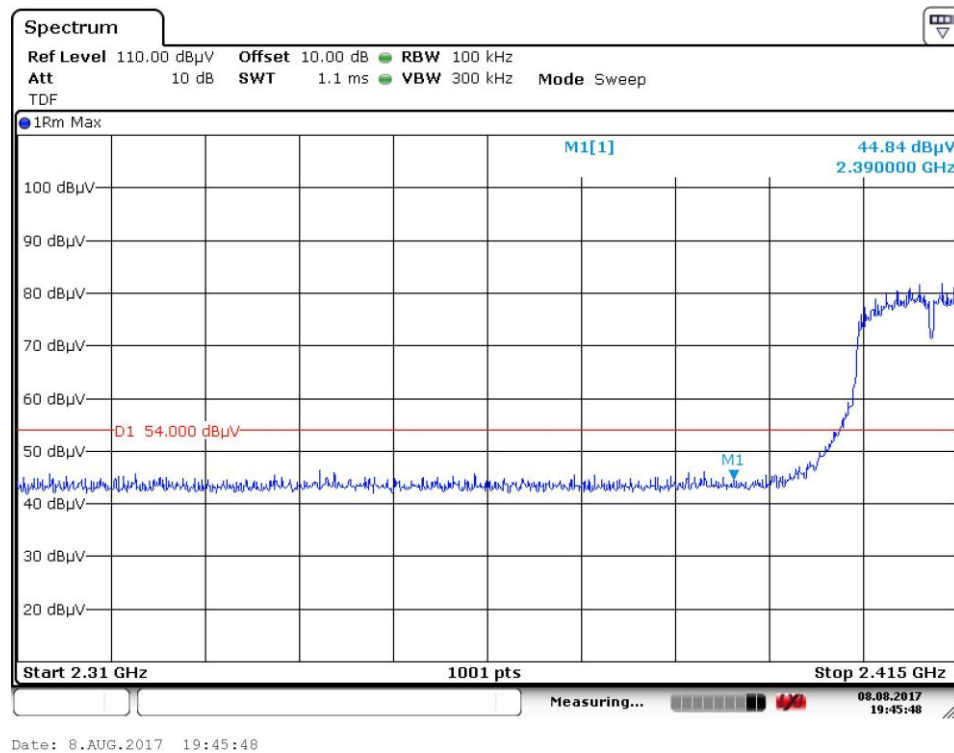


High Channel (Ver) 2462

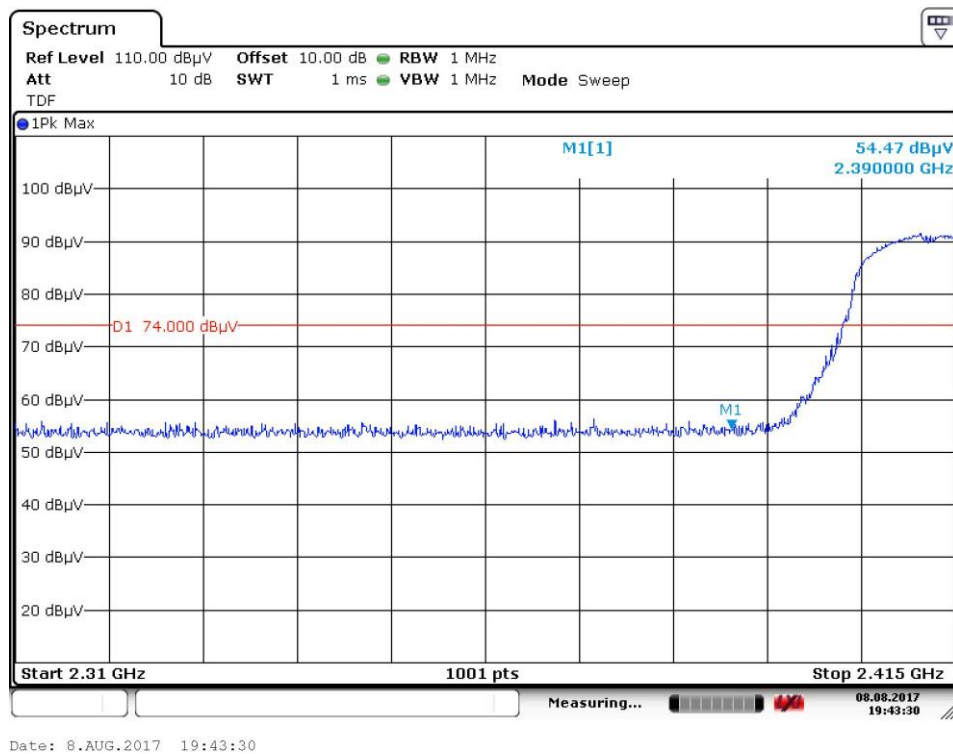
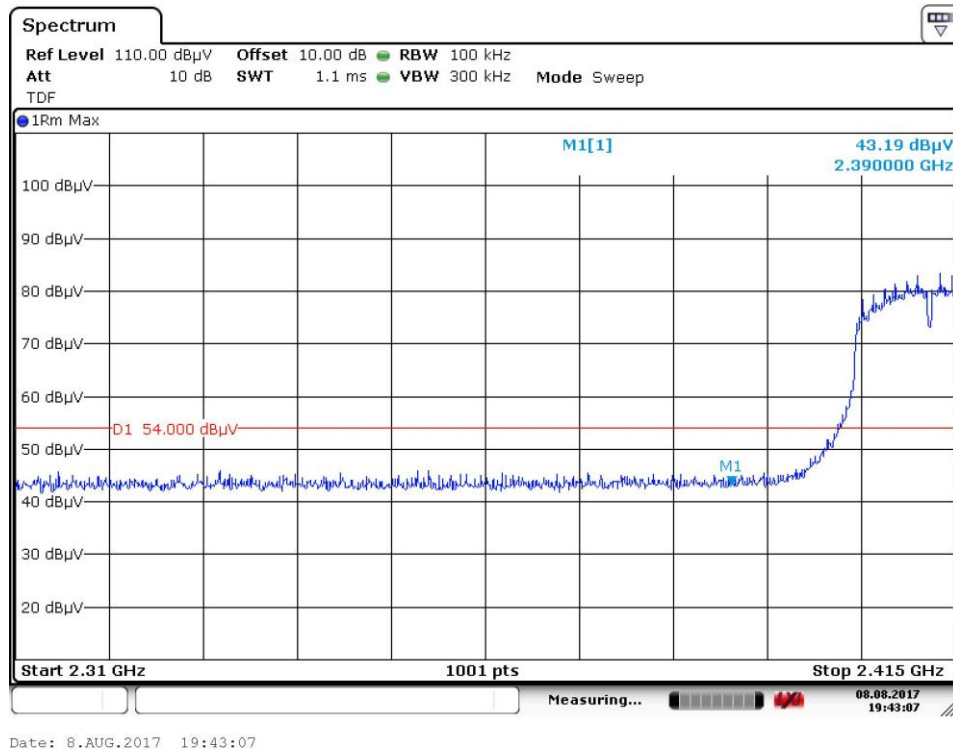


Radiated Bandedge 11g

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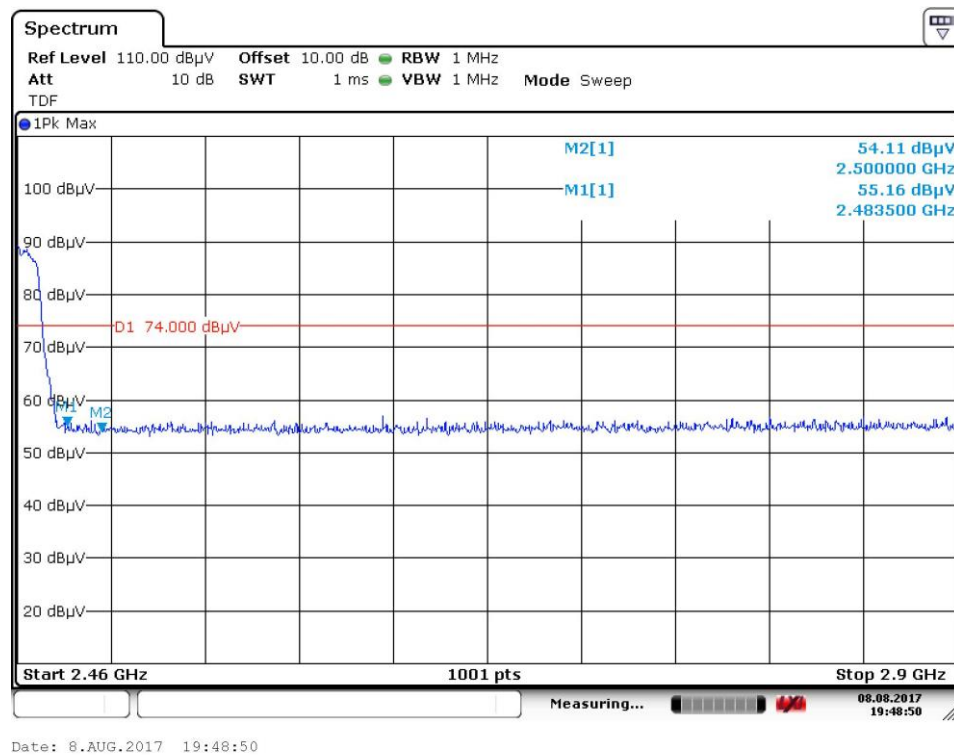
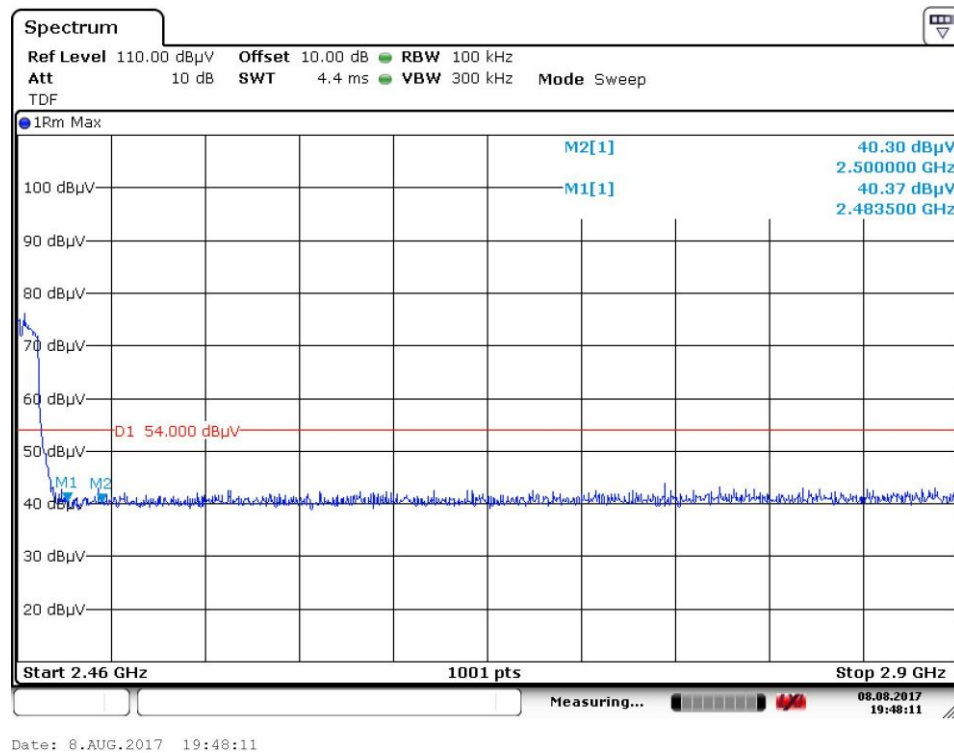


Low Channel (Ver) 2412

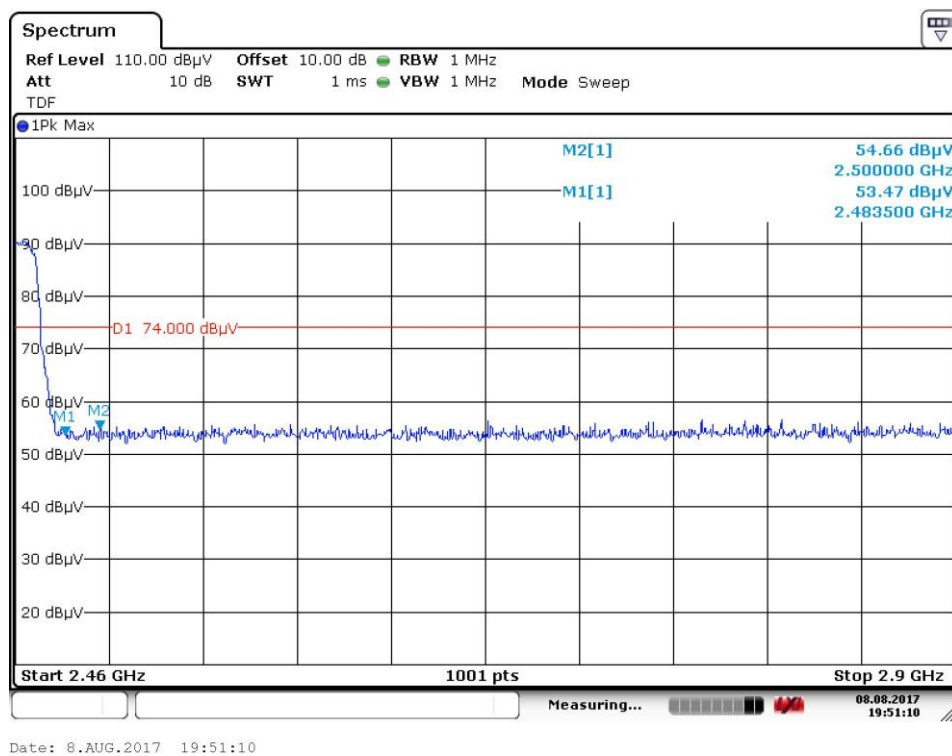
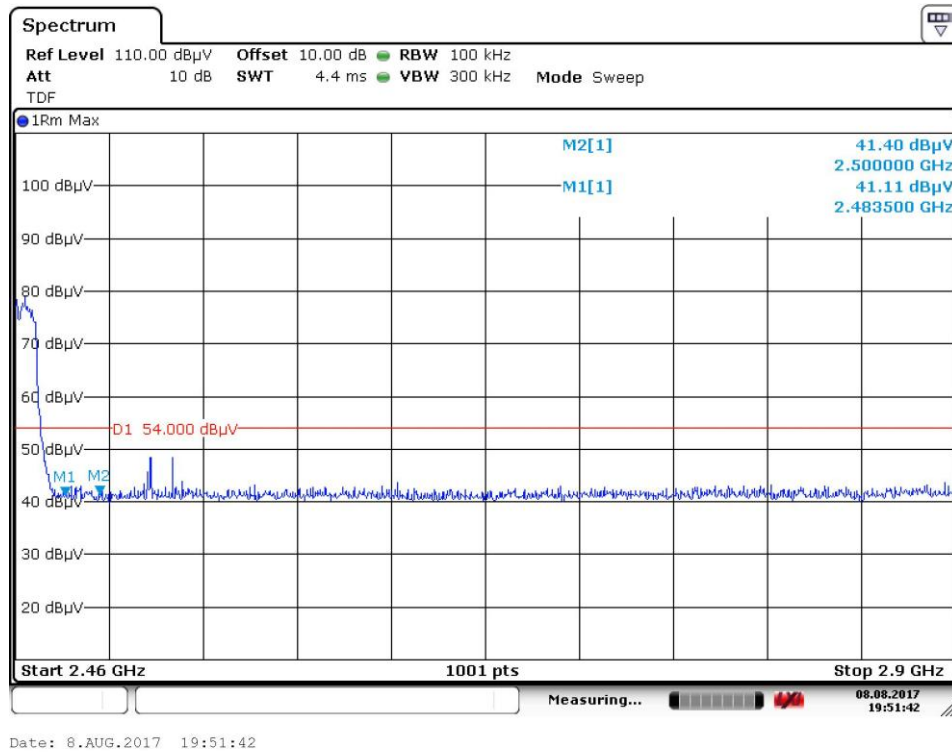


Radiated Bandedge 11g

High Channel (Hor) 2462

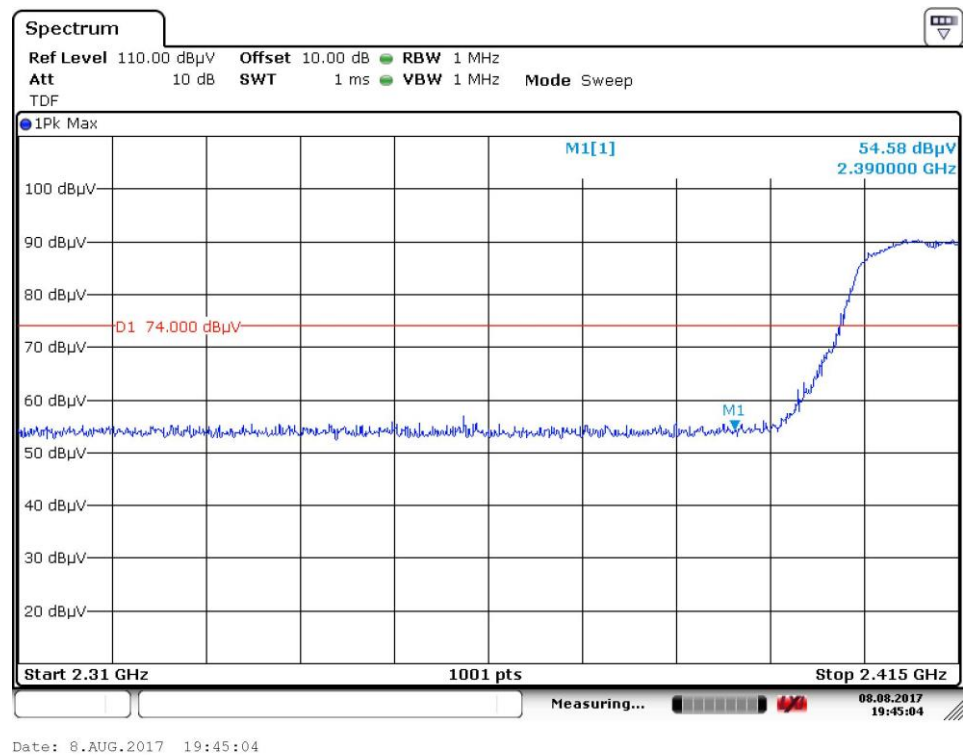
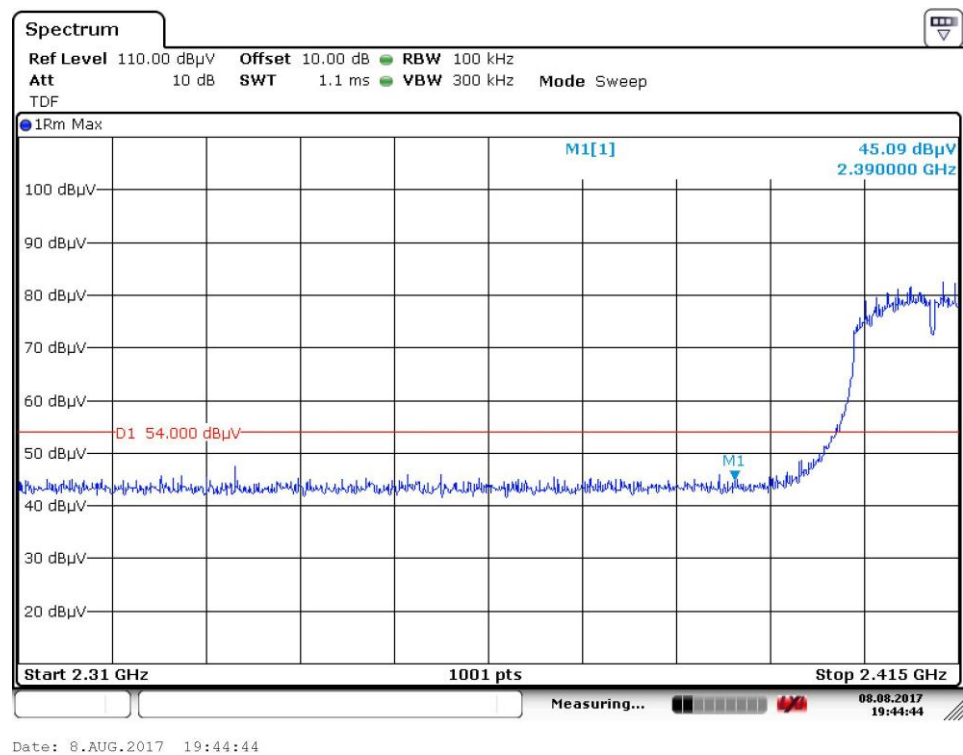


High Channel (Ver) 2462

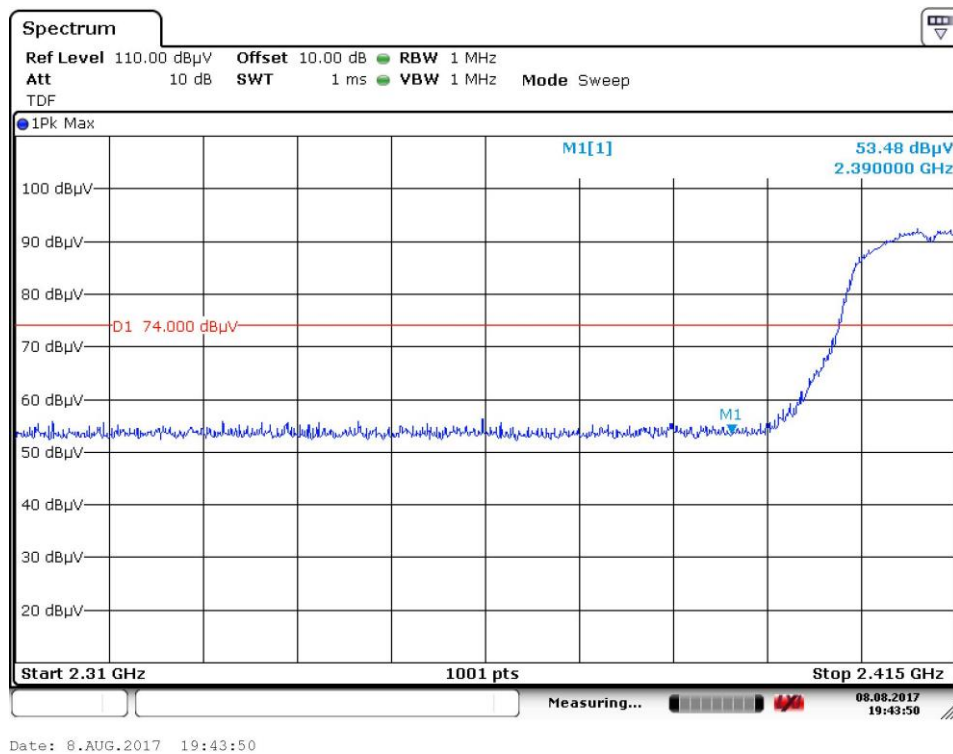
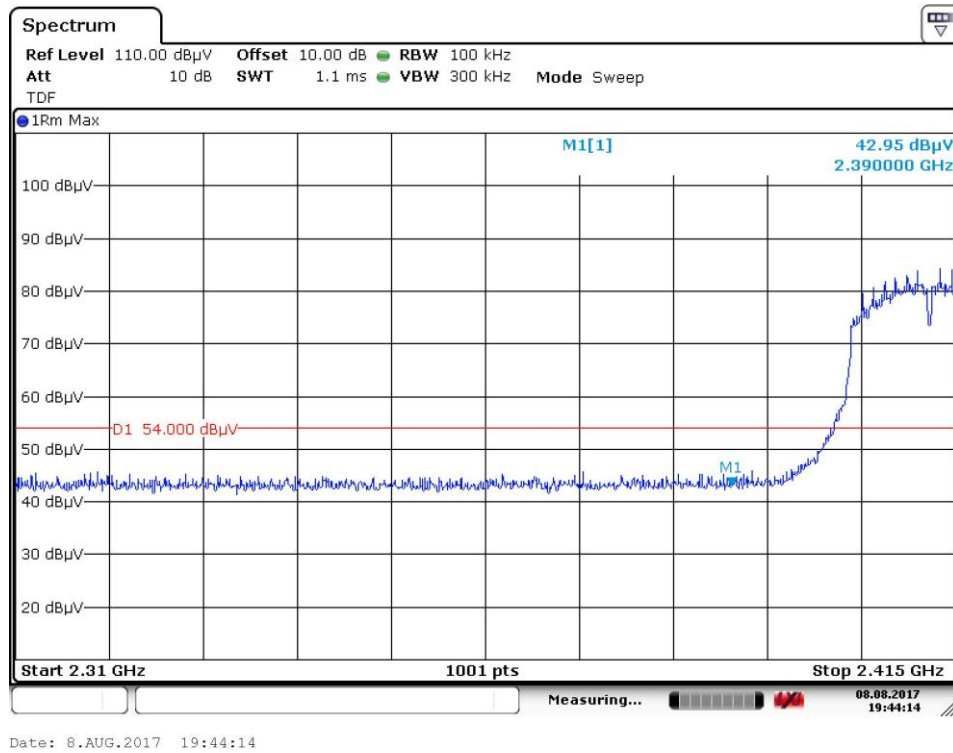


Radiated Bandedge 11HT20

Low Channel (Hor) 2412

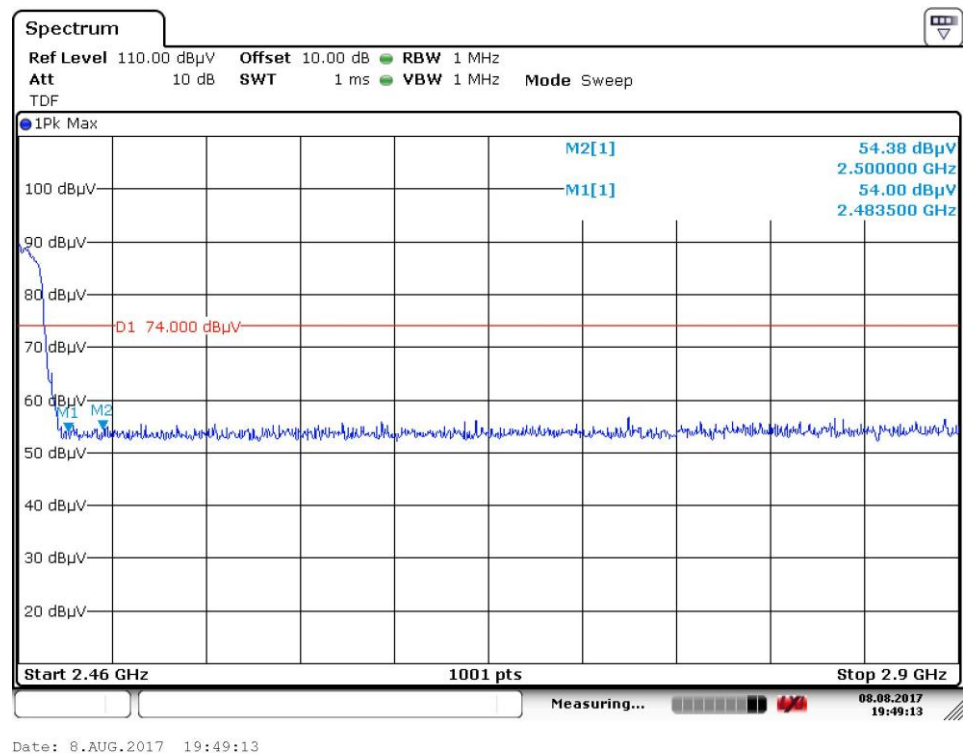
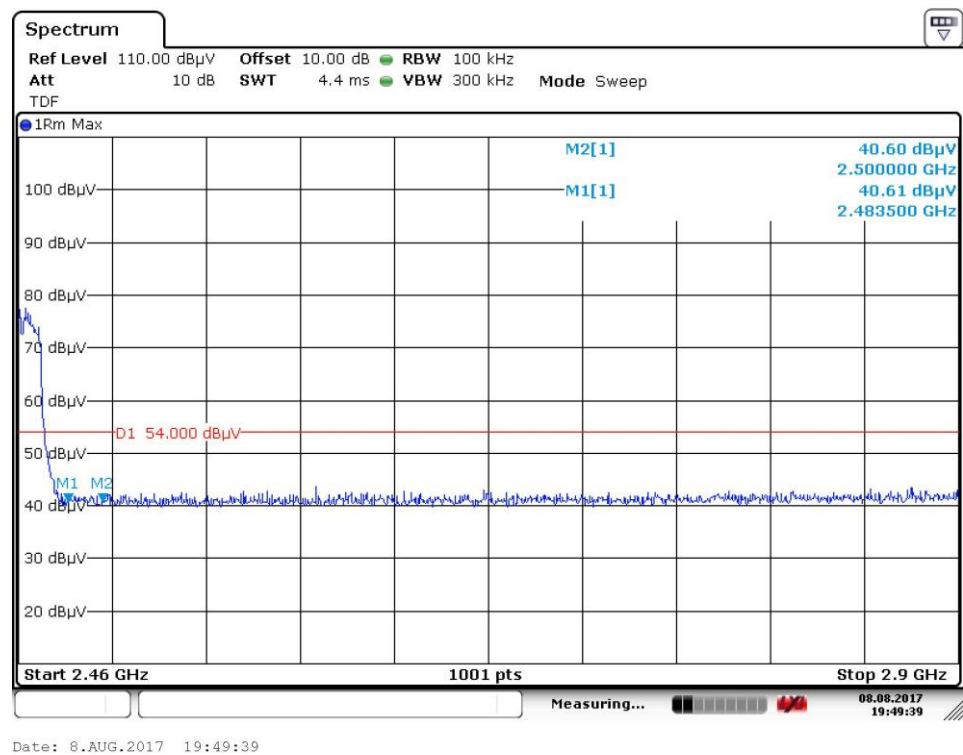


Low Channel (Ver) 2412

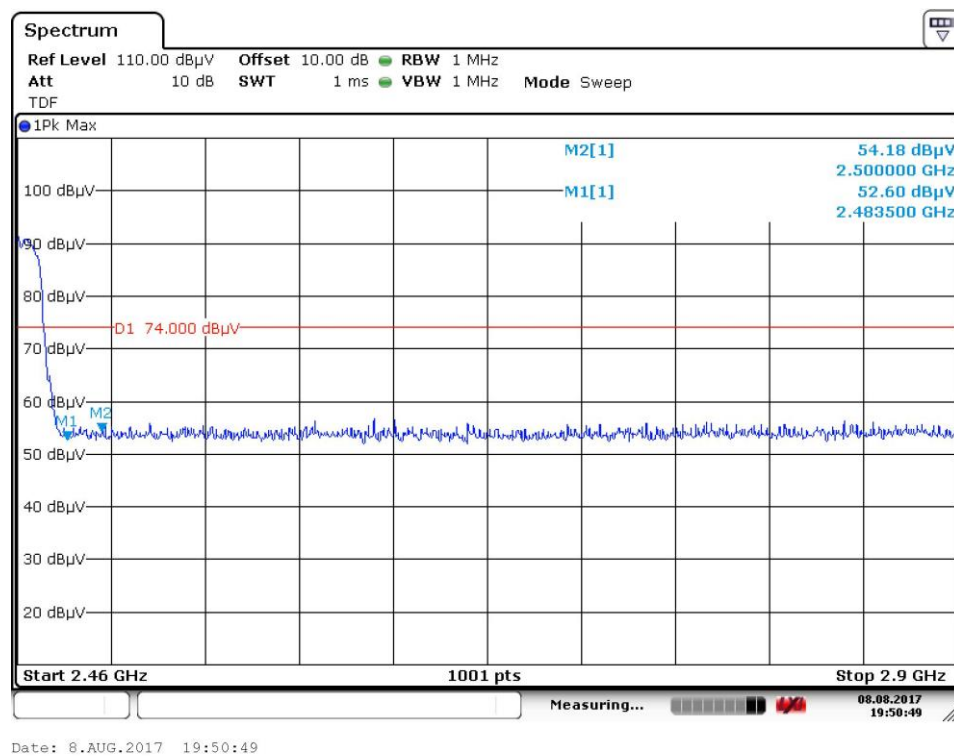
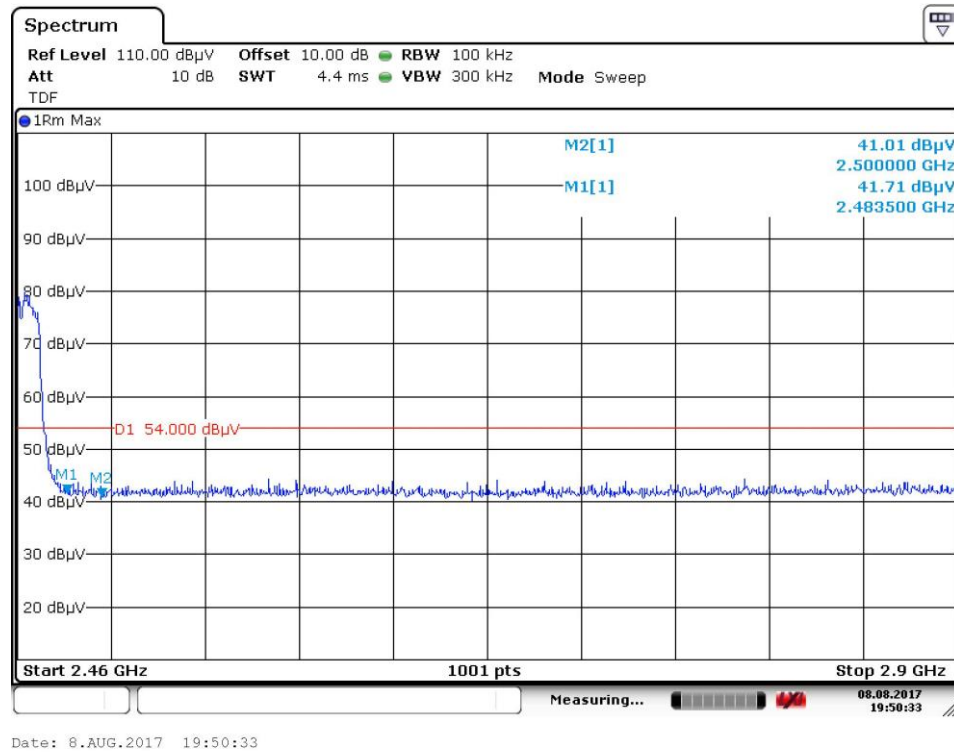


Radiated Bandedge HT20

High Channel (Hor) 2462



High Channel (Ver) 2462



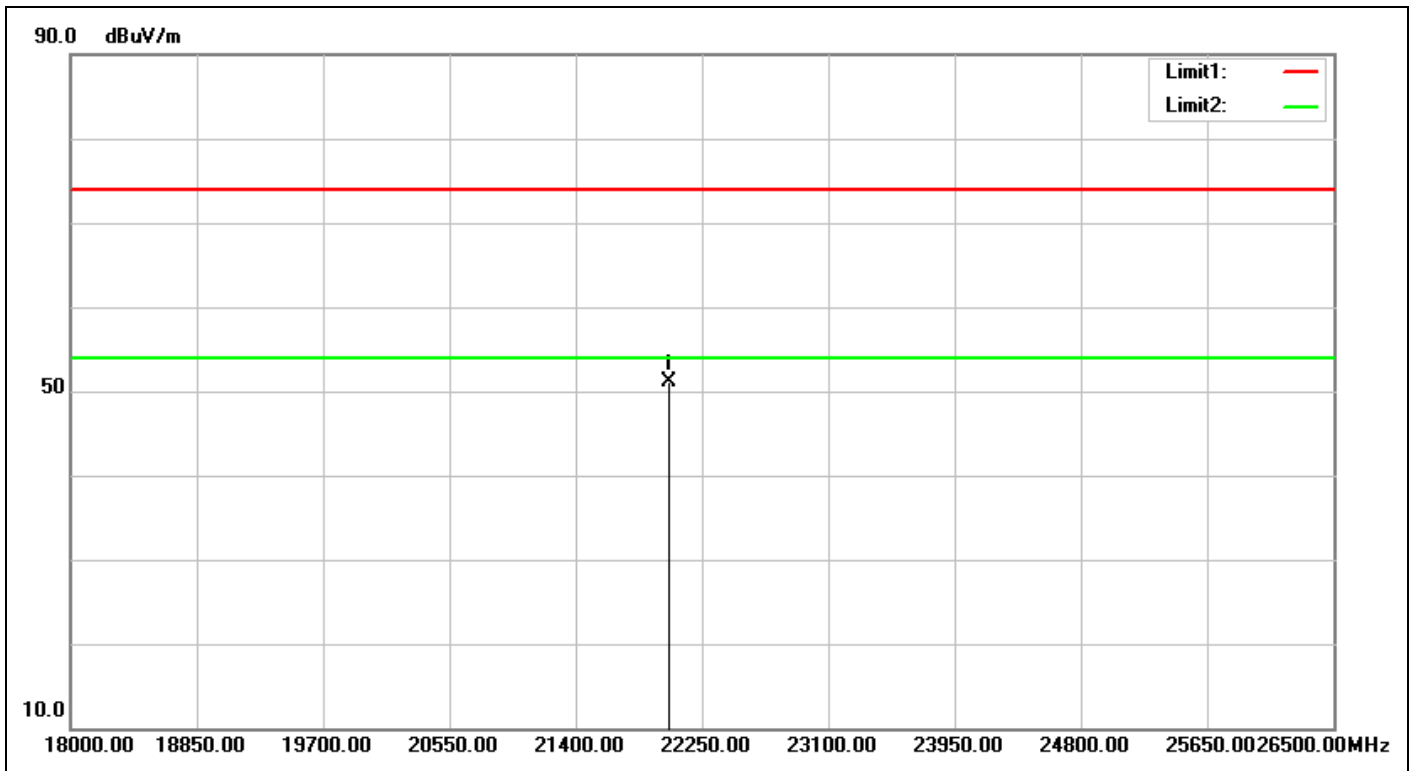
Spurious Emissions, TX Mode, 18-26G



TUV Rheinland Taiwan Ltd.

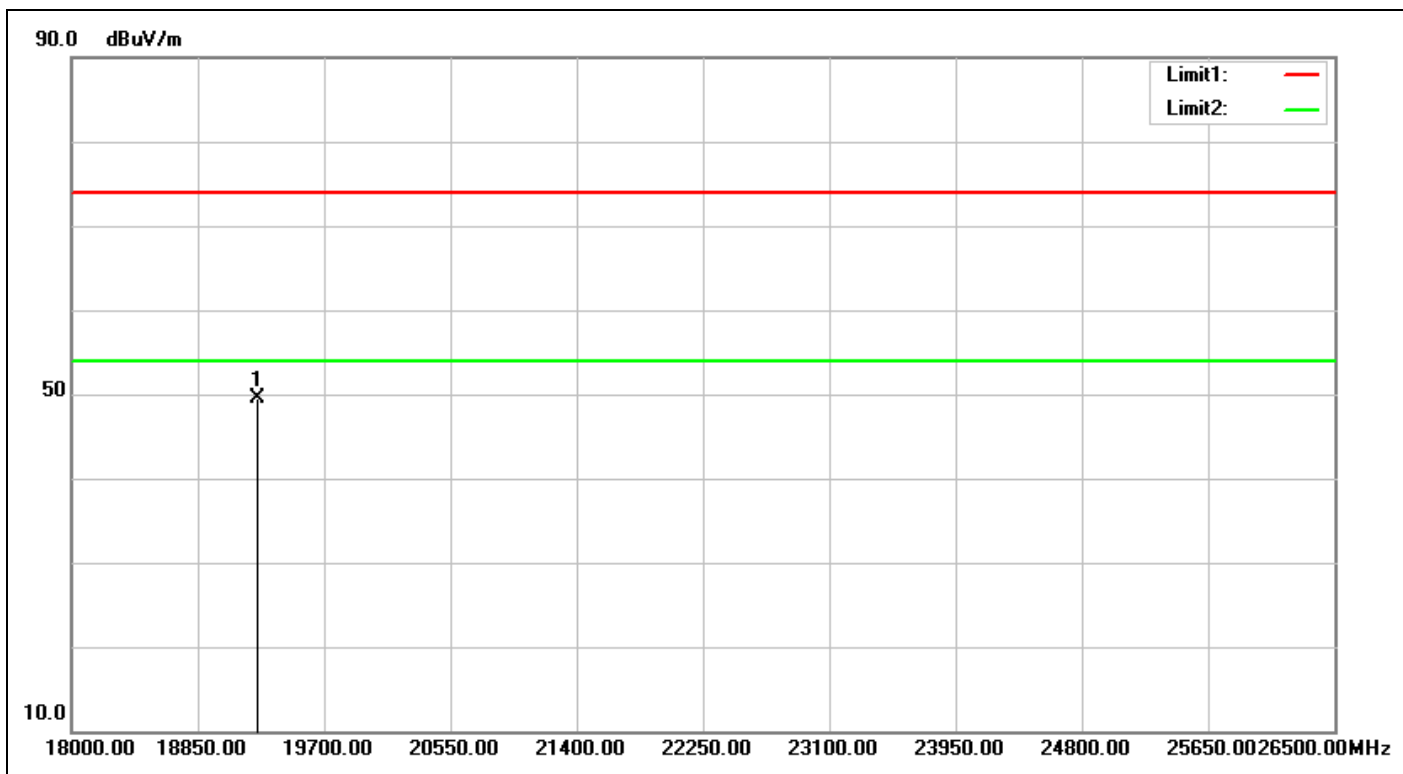
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



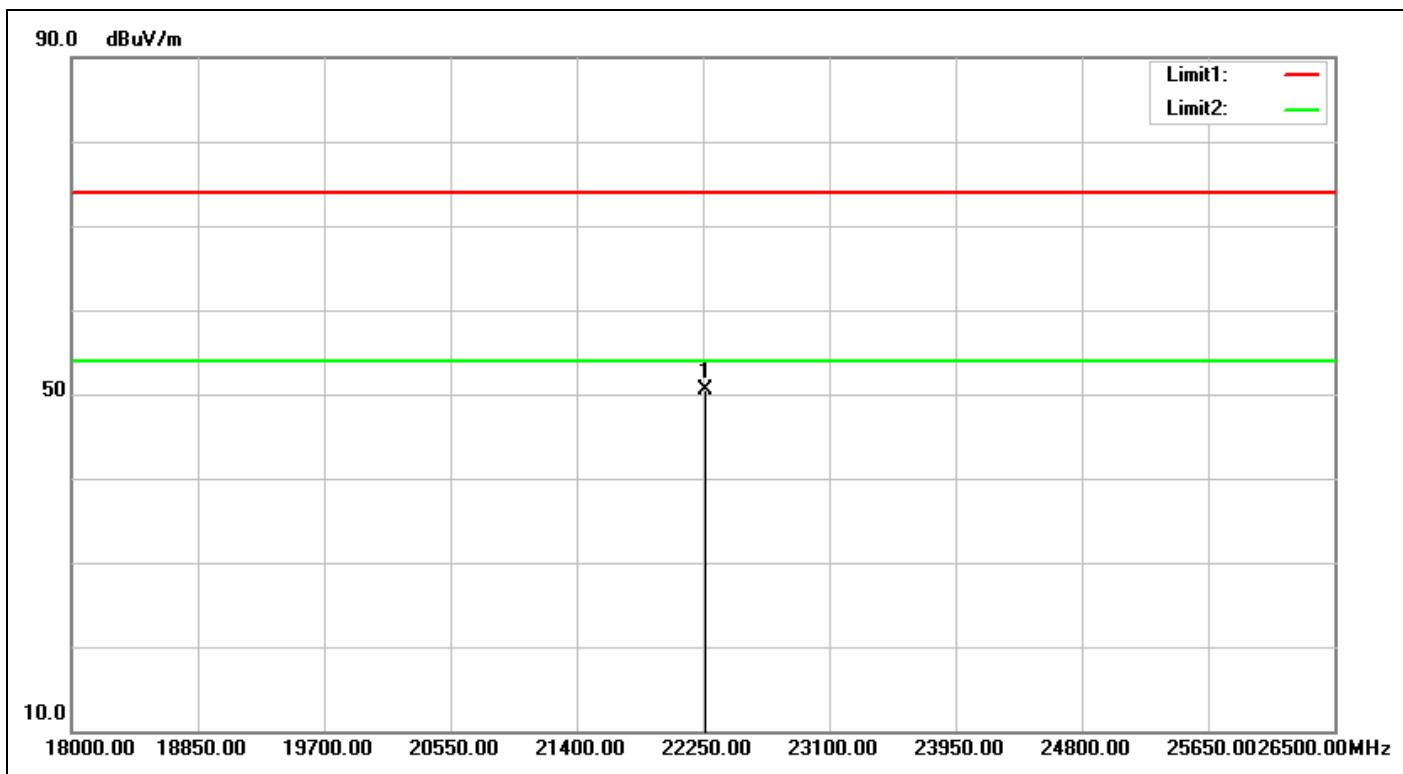
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:30:24
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22029.000	32.65	18.39	51.04	74.00	-22.96	peak		0	



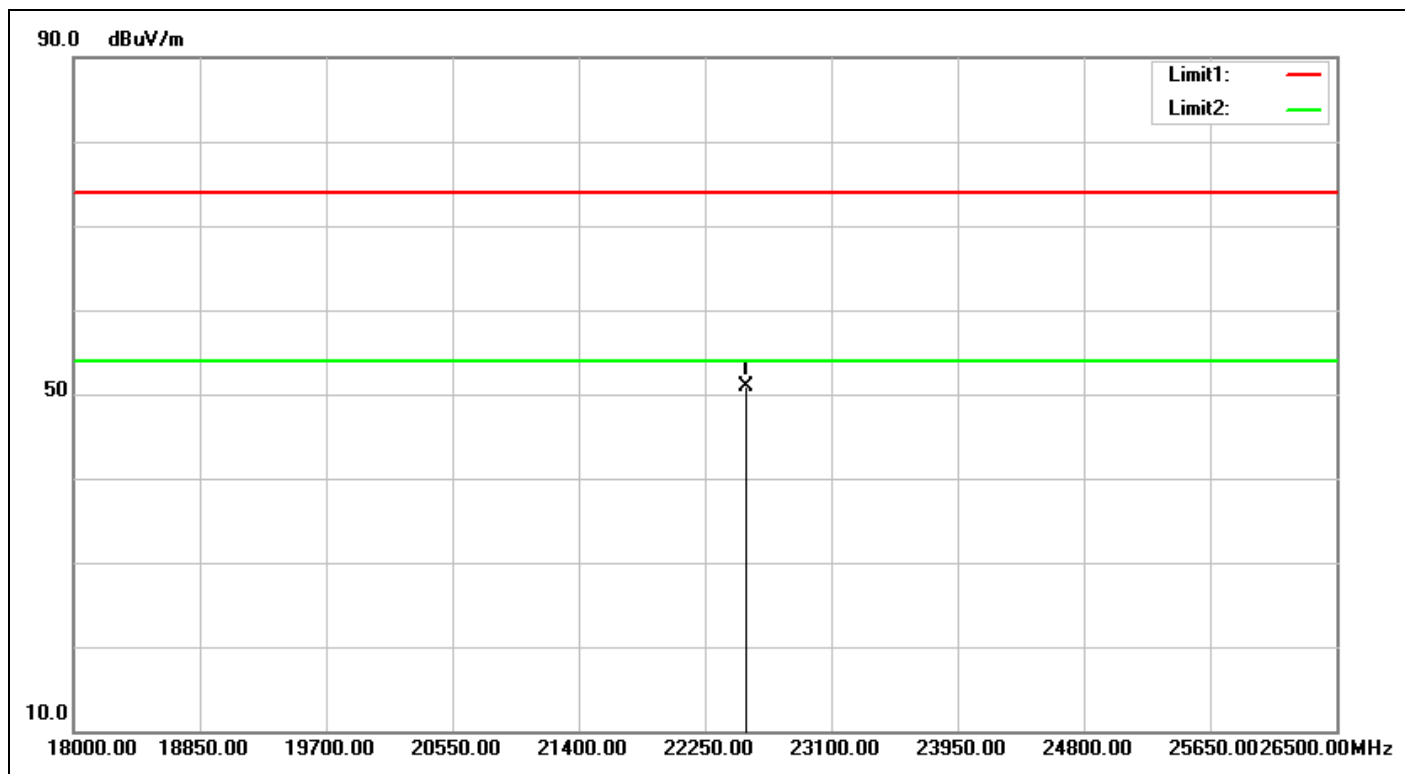
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:30:32
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19249.500	29.73	19.82	49.55	74.00	-24.45	peak			



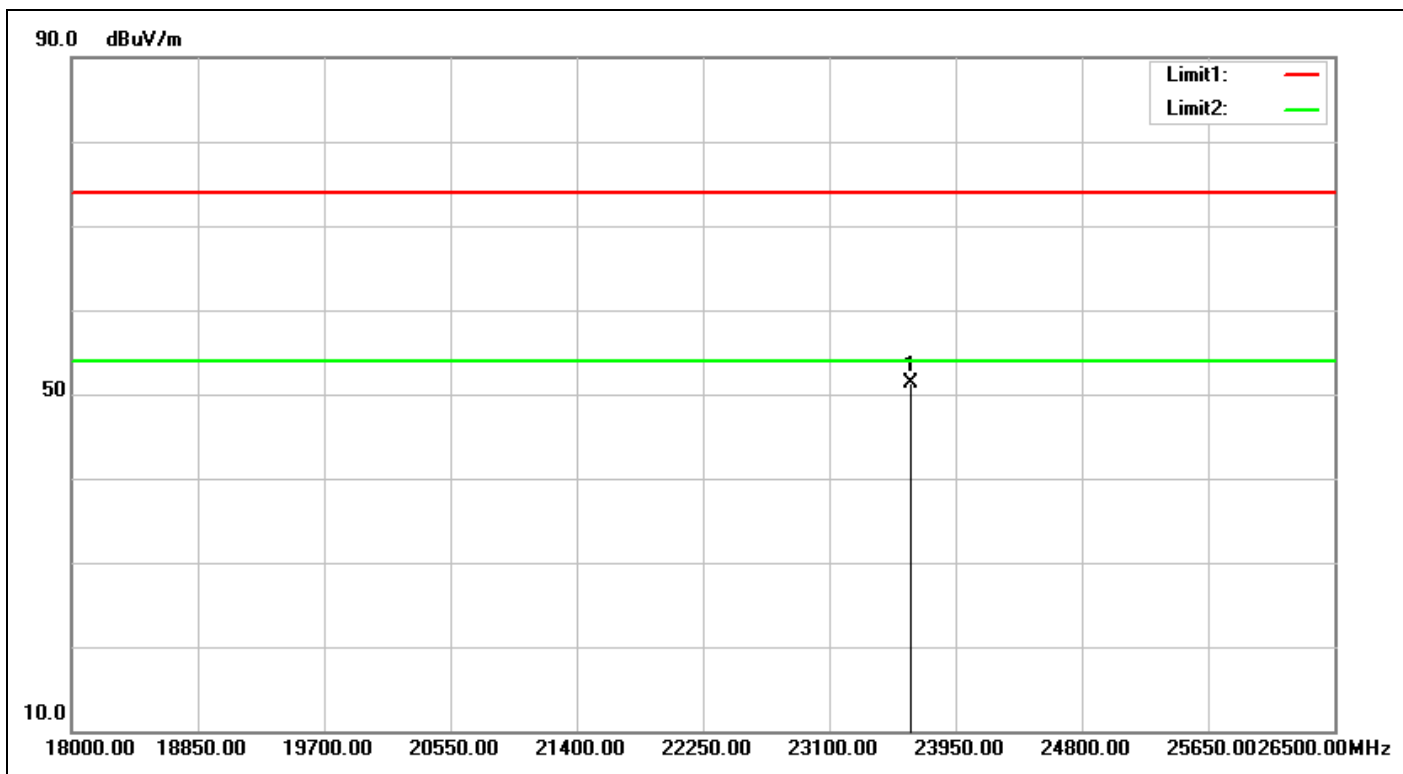
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:30:45
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22267.000	32.52	17.99	50.51	74.00	-23.49	peak			



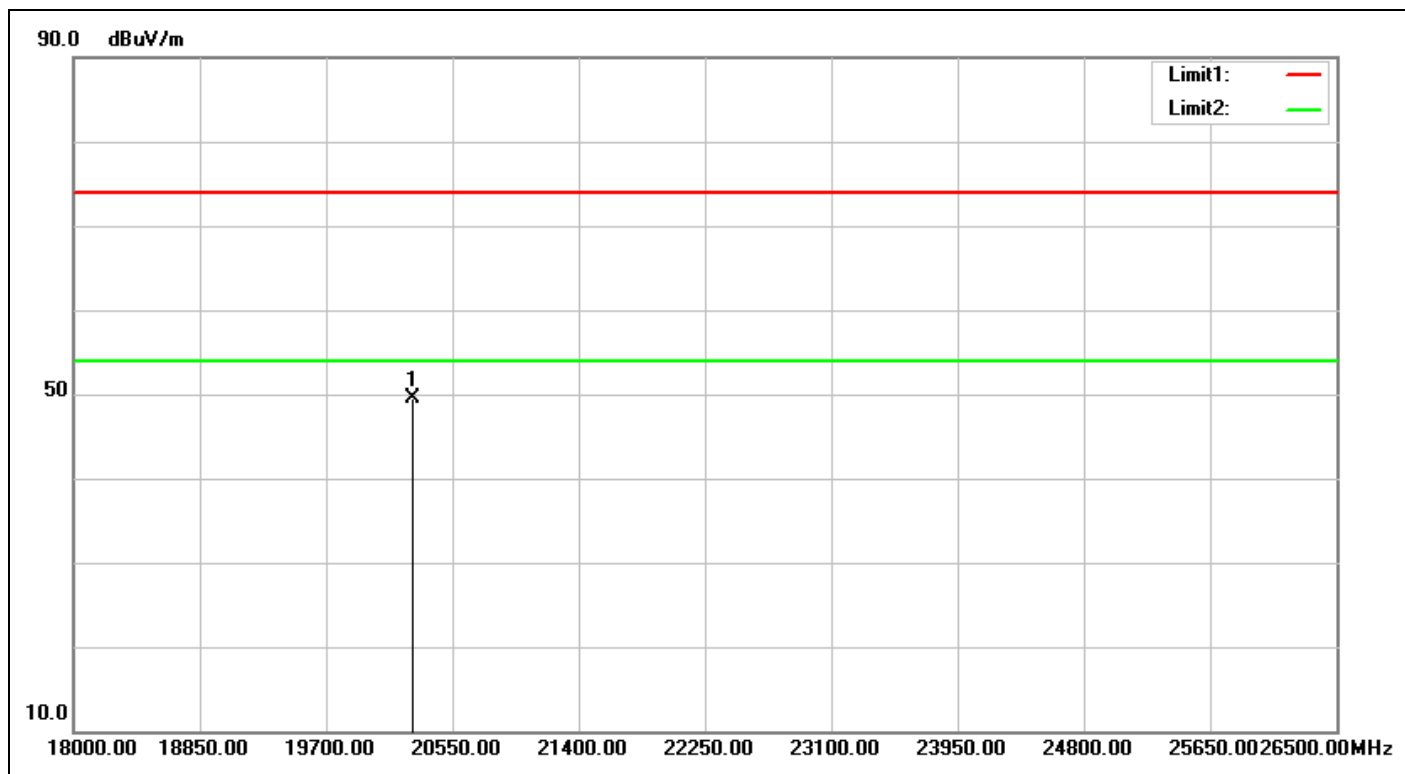
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Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22522.000	32.37	18.58	50.95	74.00	-23.05	peak			



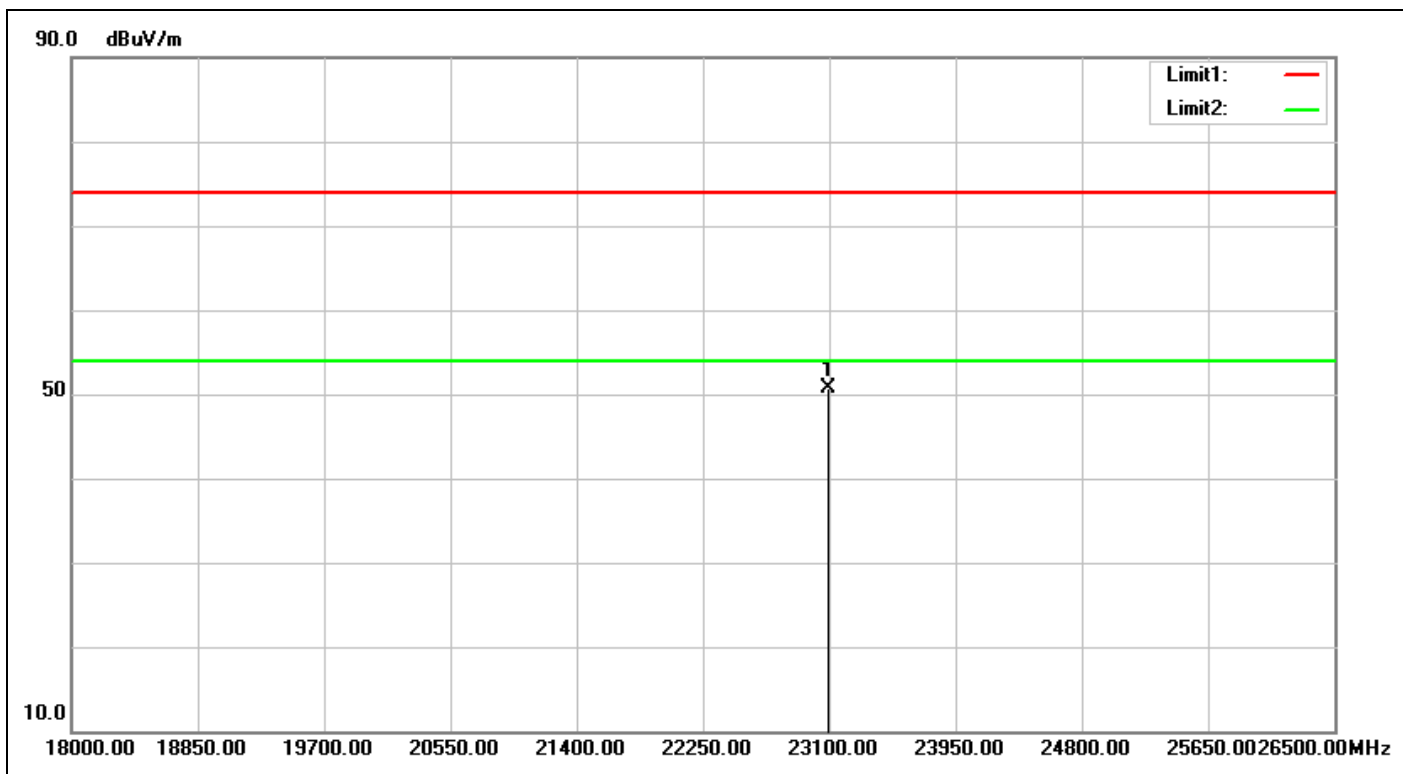
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Test item:	Radiation Emission	Test Time:	2017/8/8 20:31:05
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23644.000	32.35	18.88	51.23	74.00	-22.77	peak			



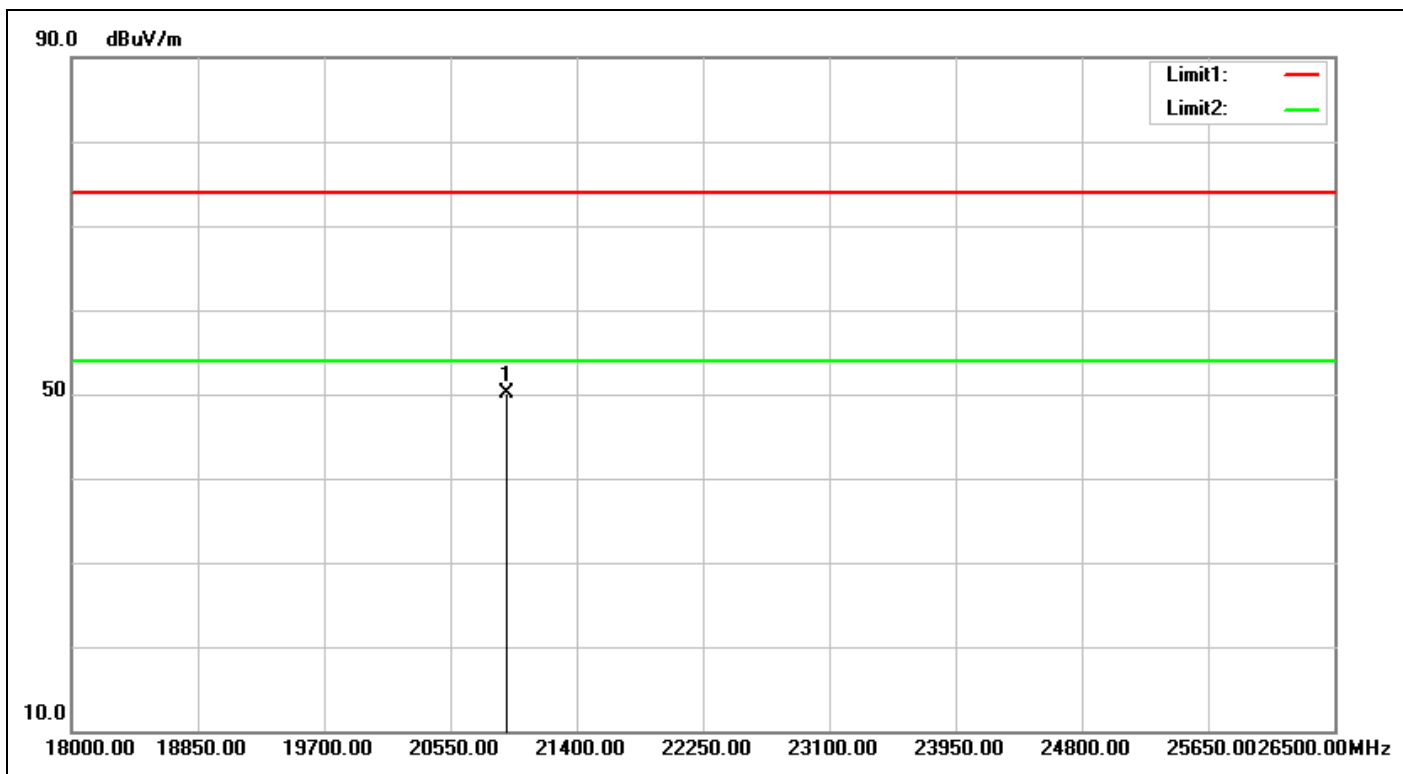
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:31:30
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20286.500	30.94	18.56	49.50	74.00	-24.50	peak			



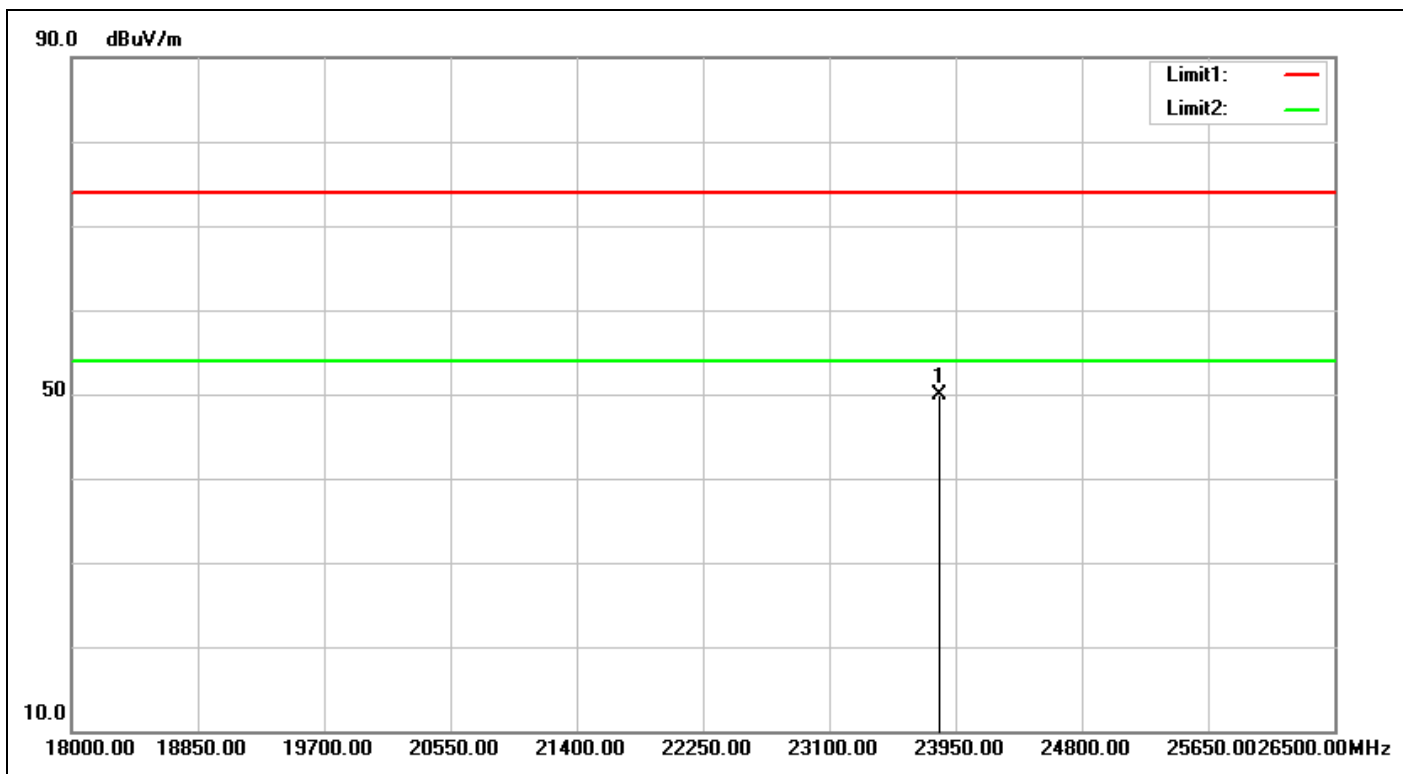
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:31:49
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23091.500	32.17	18.51	50.68	74.00	-23.32	peak			



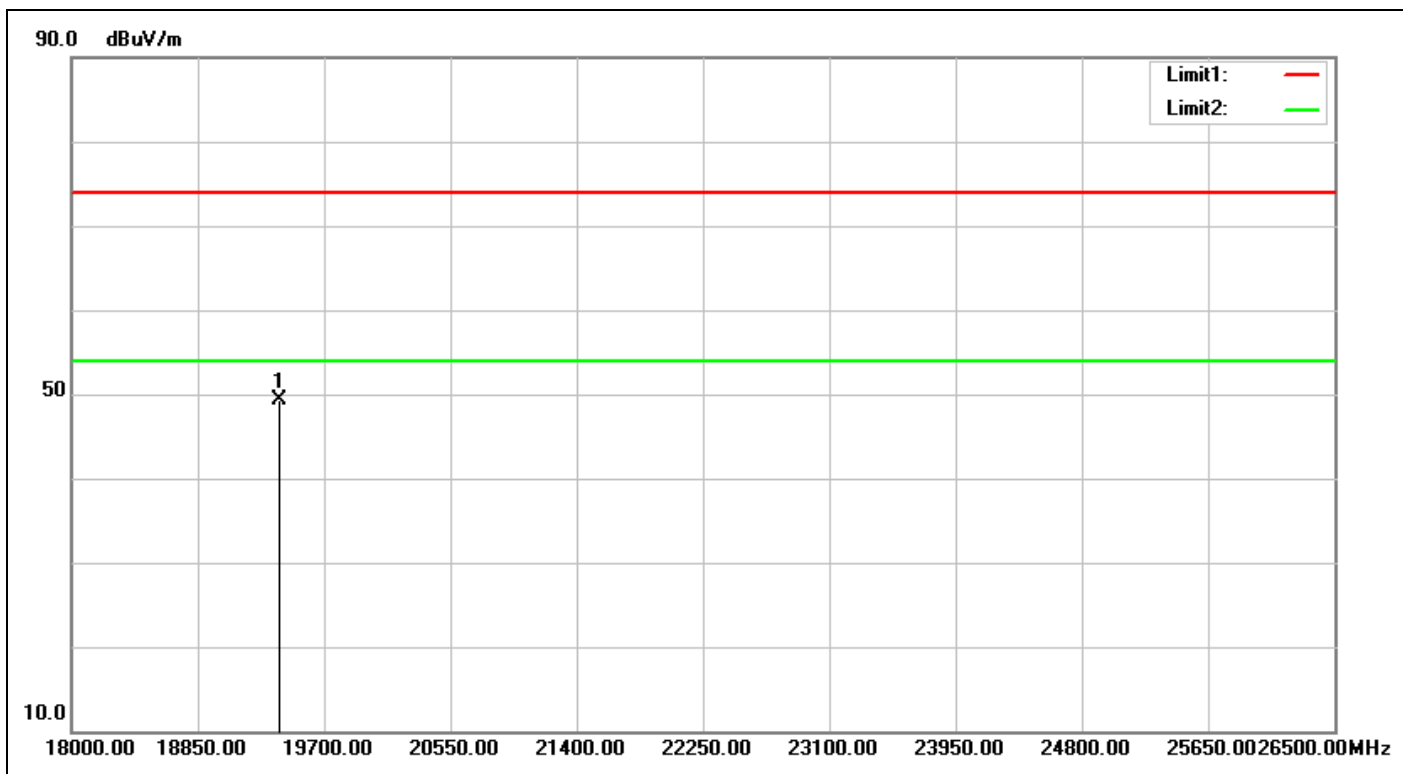
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
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Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20924.000	31.41	18.70	50.11	74.00	-23.89	peak			



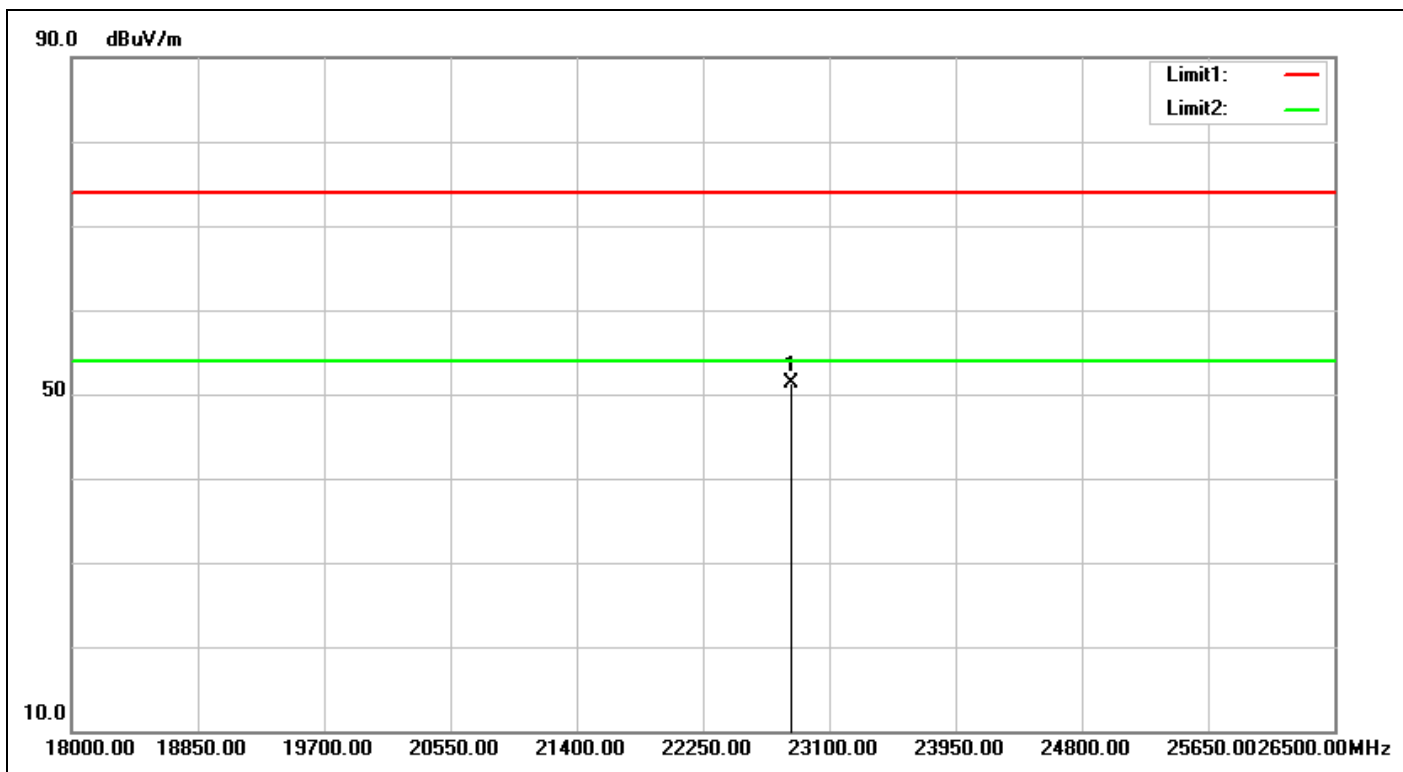
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:32:14
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23839.500	32.07	17.75	49.82	74.00	-24.18	peak			



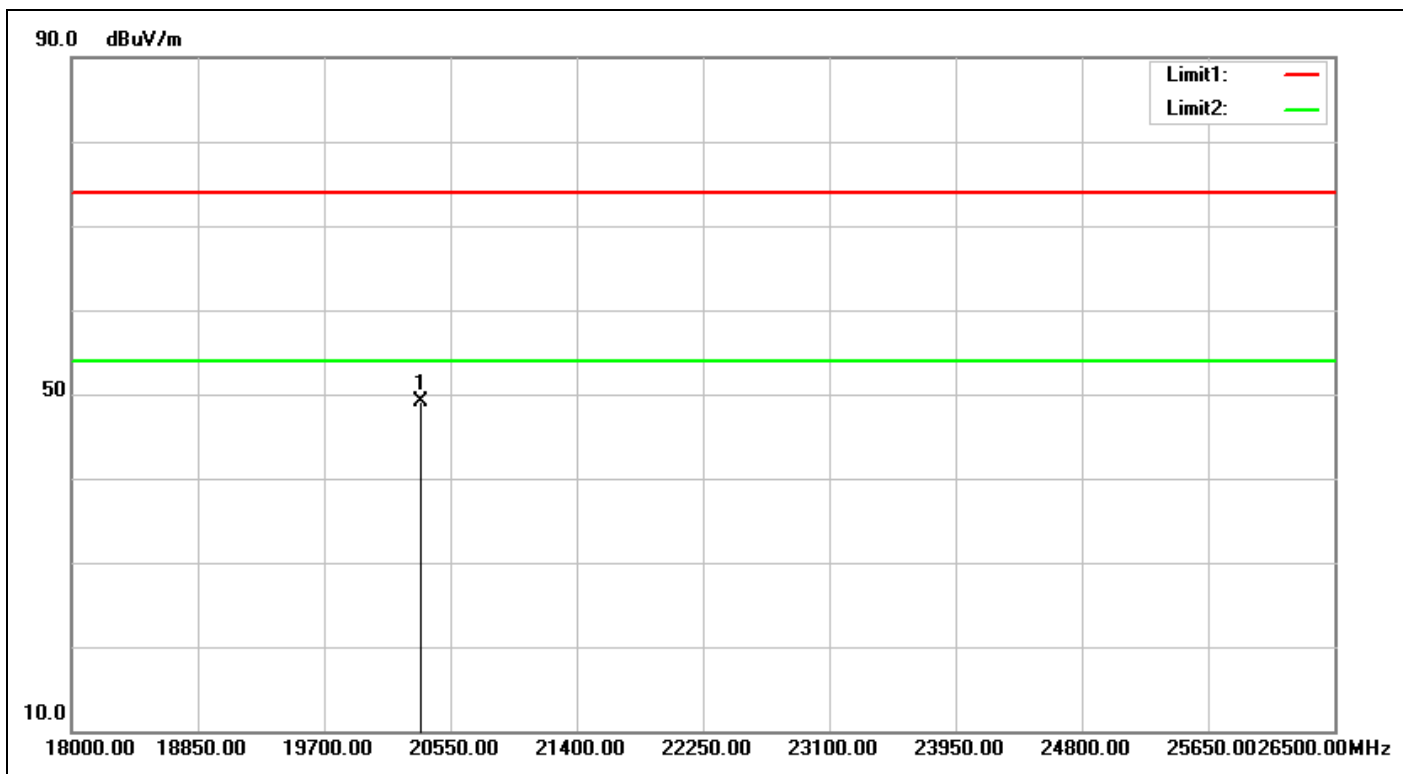
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:32:22
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19402.500	30.02	19.26	49.28	74.00	-24.72	peak			



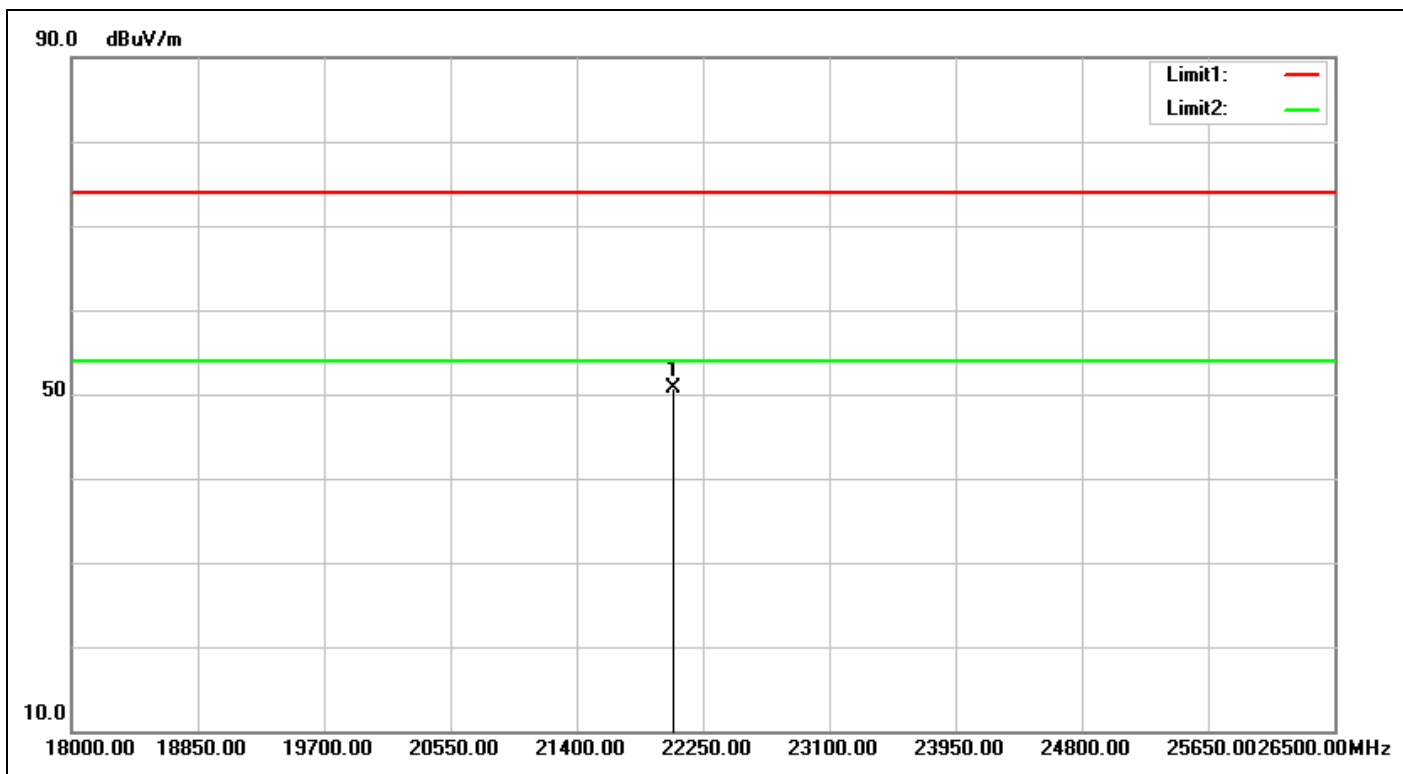
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Test item:	Radiation Emission	Test Time:	2017/8/8 20:32:51
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22845.000	32.18	19.05	51.23	74.00	-22.77	peak			



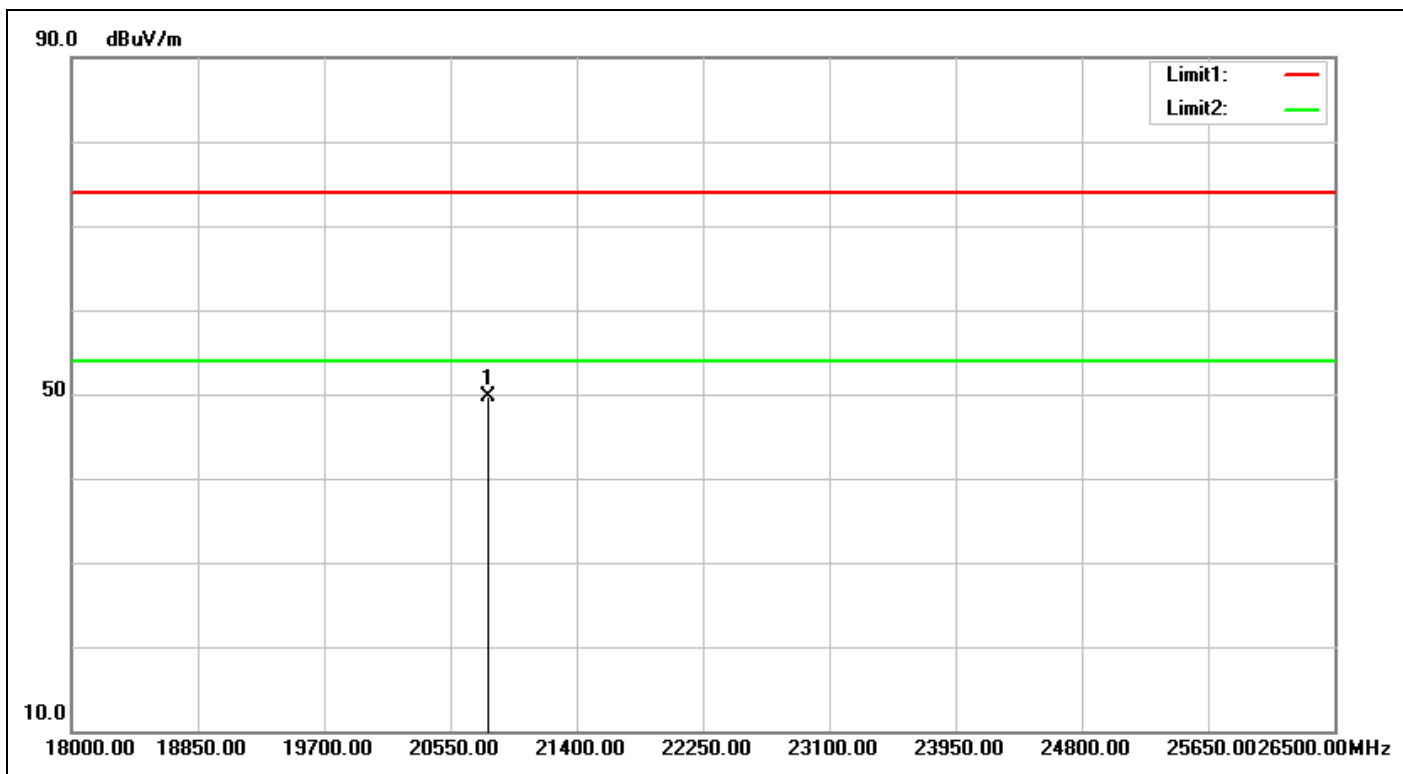
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:33:00
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20346.000	30.99	18.14	49.13	74.00	-24.87	peak			



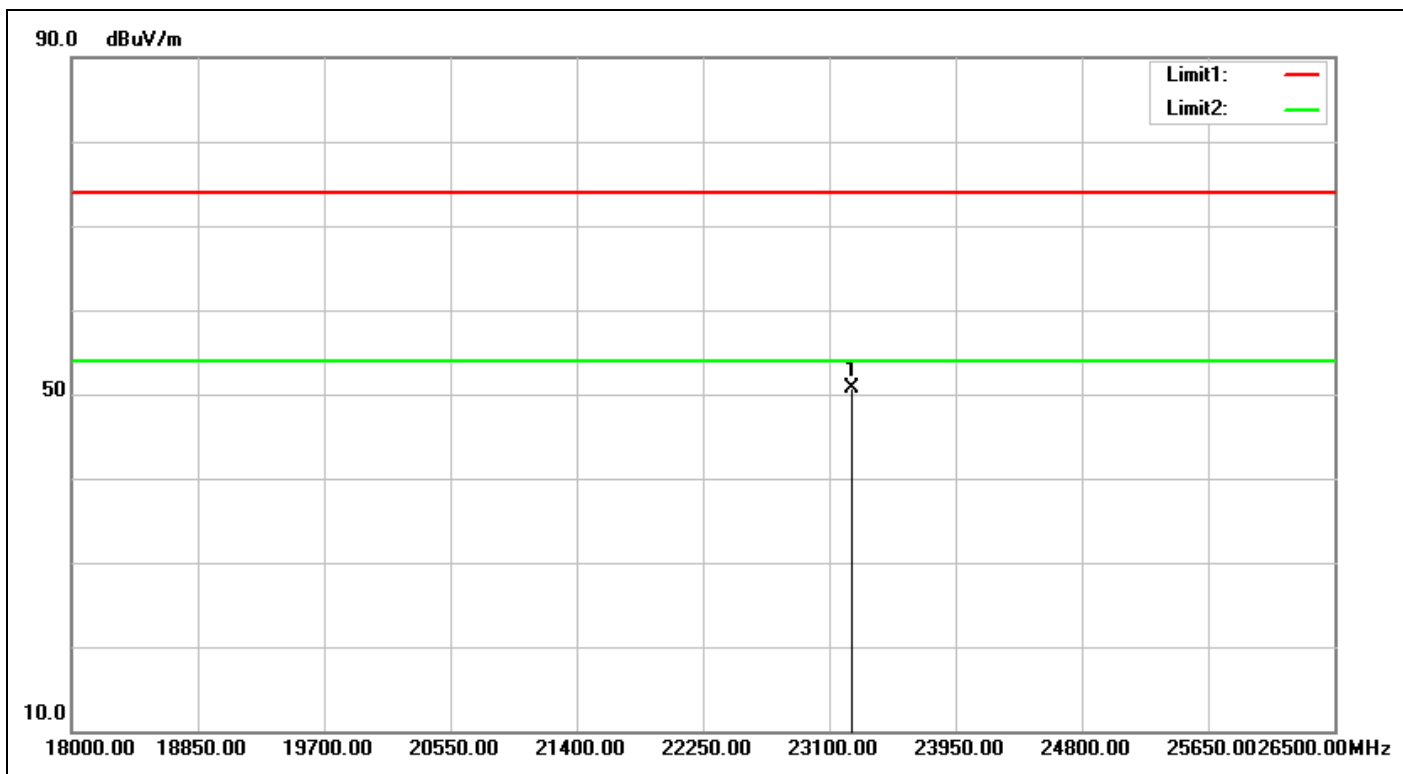
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:33:15
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G20-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22054.500	32.64	18.12	50.76	74.00	-23.24	peak			



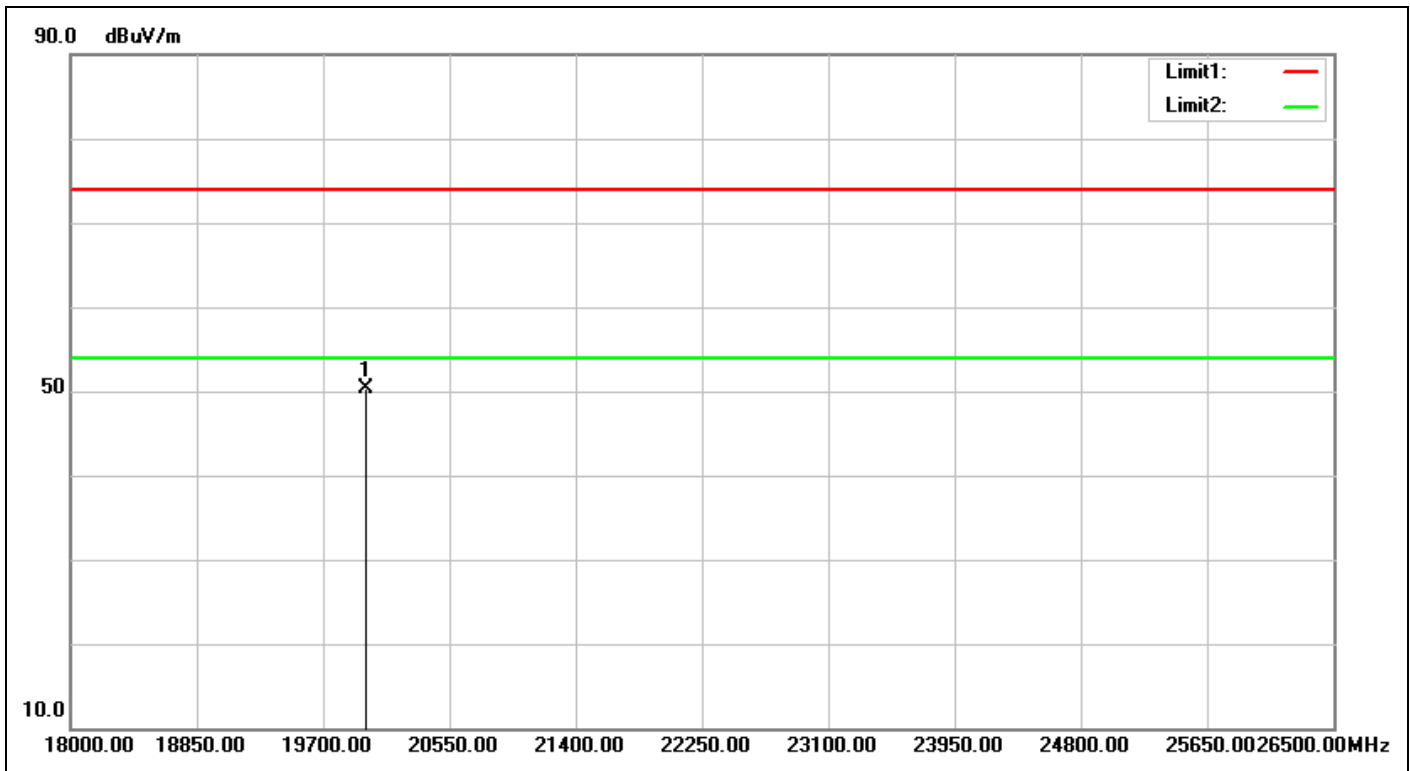
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:33:23
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G20-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20805.000	31.34	18.32	49.66	74.00	-24.34	peak			



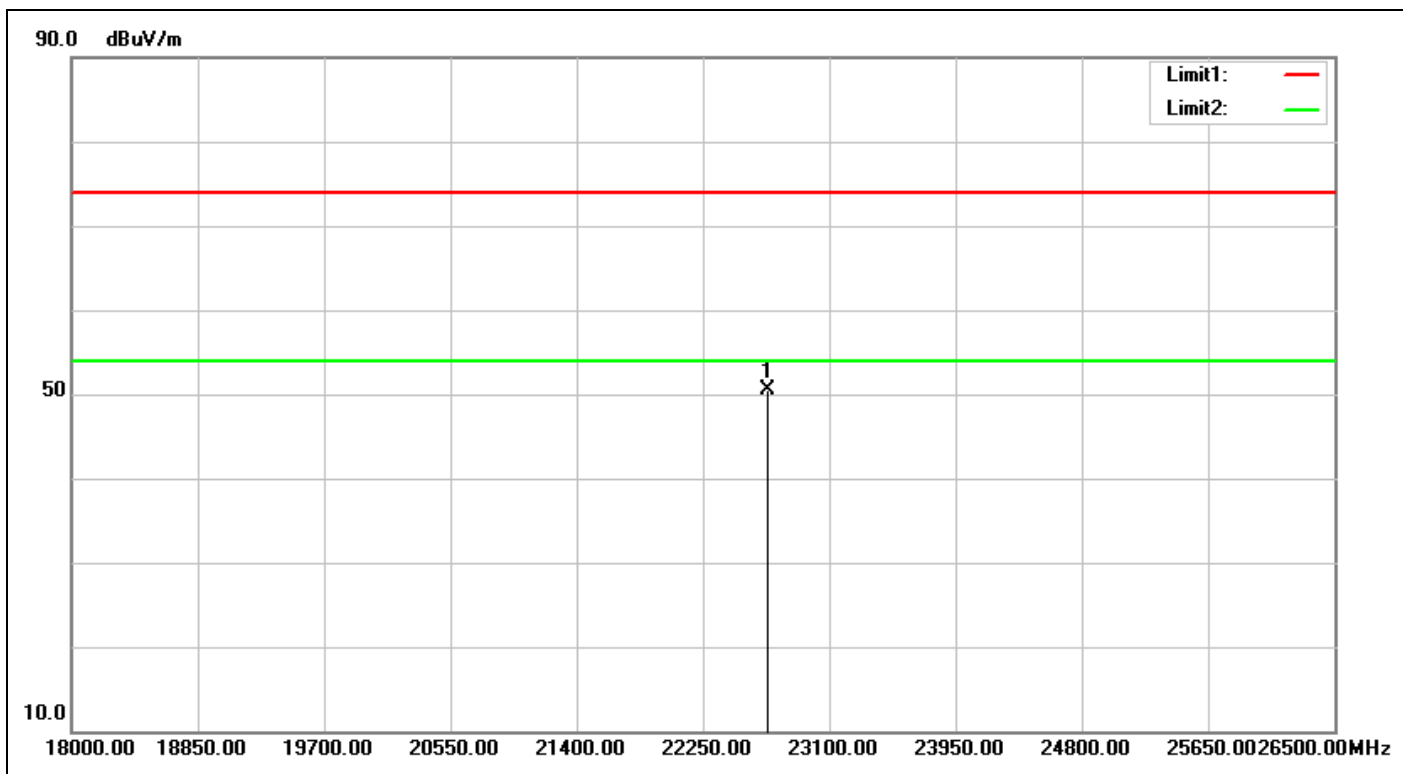
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:33:37
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G20-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23253.000	32.33	18.35	50.68	74.00	-23.32	peak			



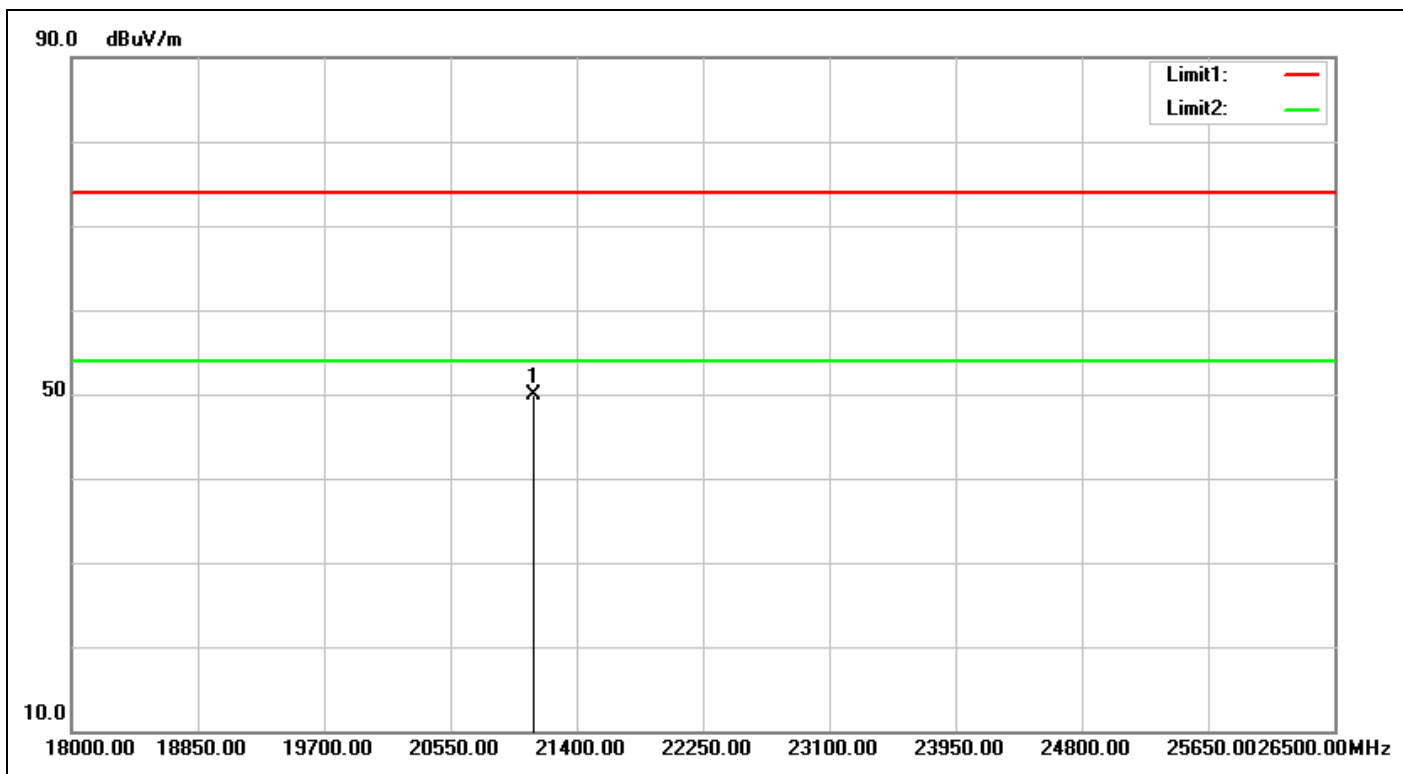
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:33:47
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G20-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19989.000	30.70	19.66	50.36	74.00	-23.64	peak			



Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:34:01
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G20-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22683.500	32.28	18.22	50.50	74.00	-23.50	peak			



Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:34:08
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G20-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21111.000	31.63	18.36	49.99	74.00	-24.01	peak			

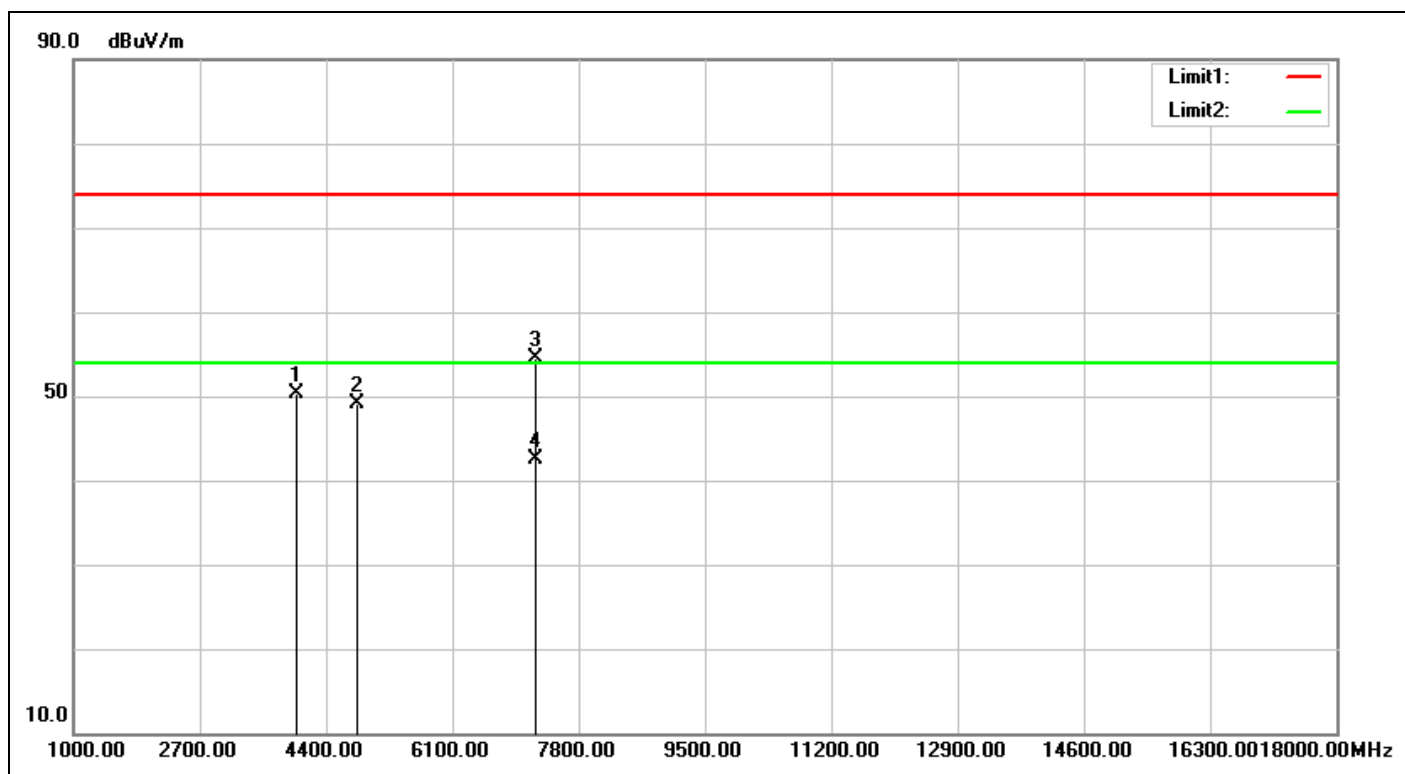
Spurious Emissions, TX Mode, 1-18G



TUV Rheinland Taiwan Ltd.

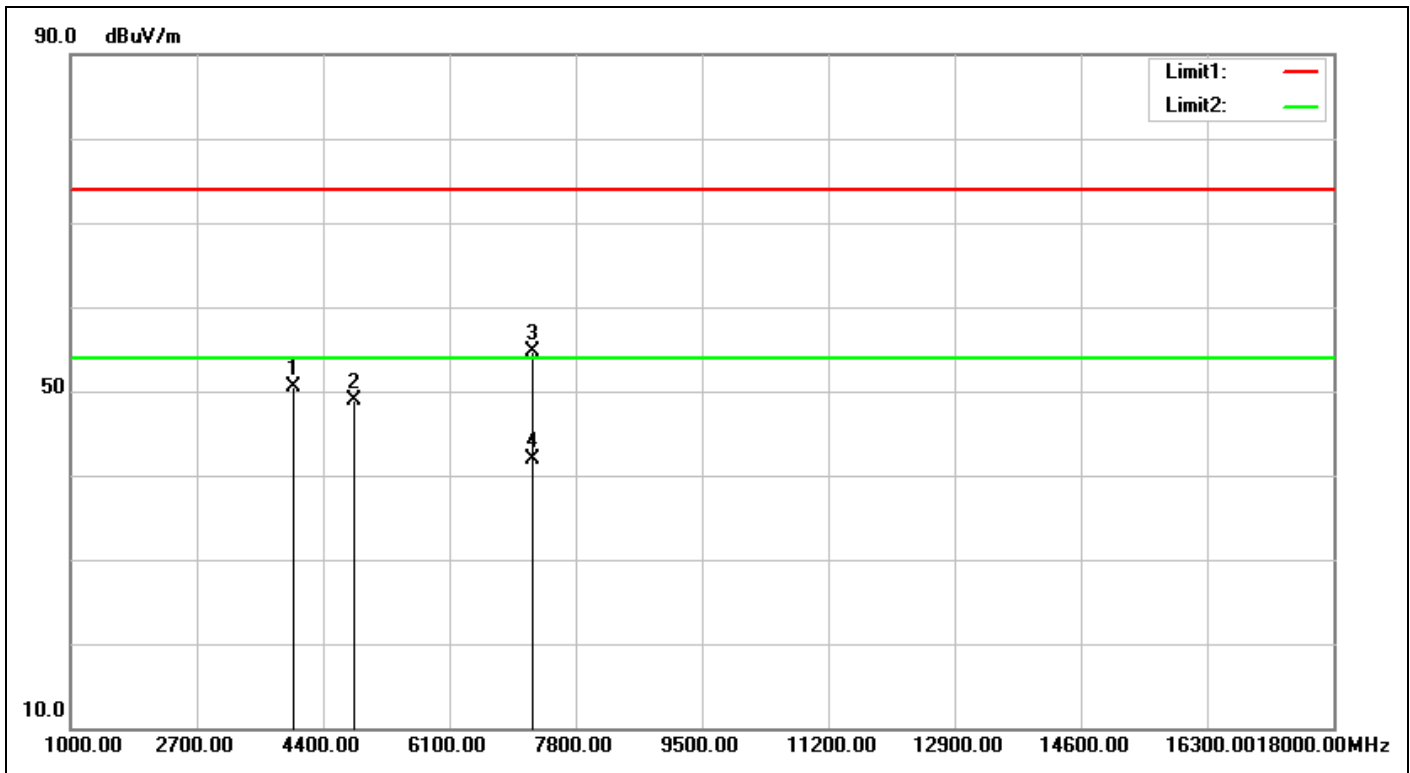
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel: +886-2172-7000 fax: +886-2528-0018



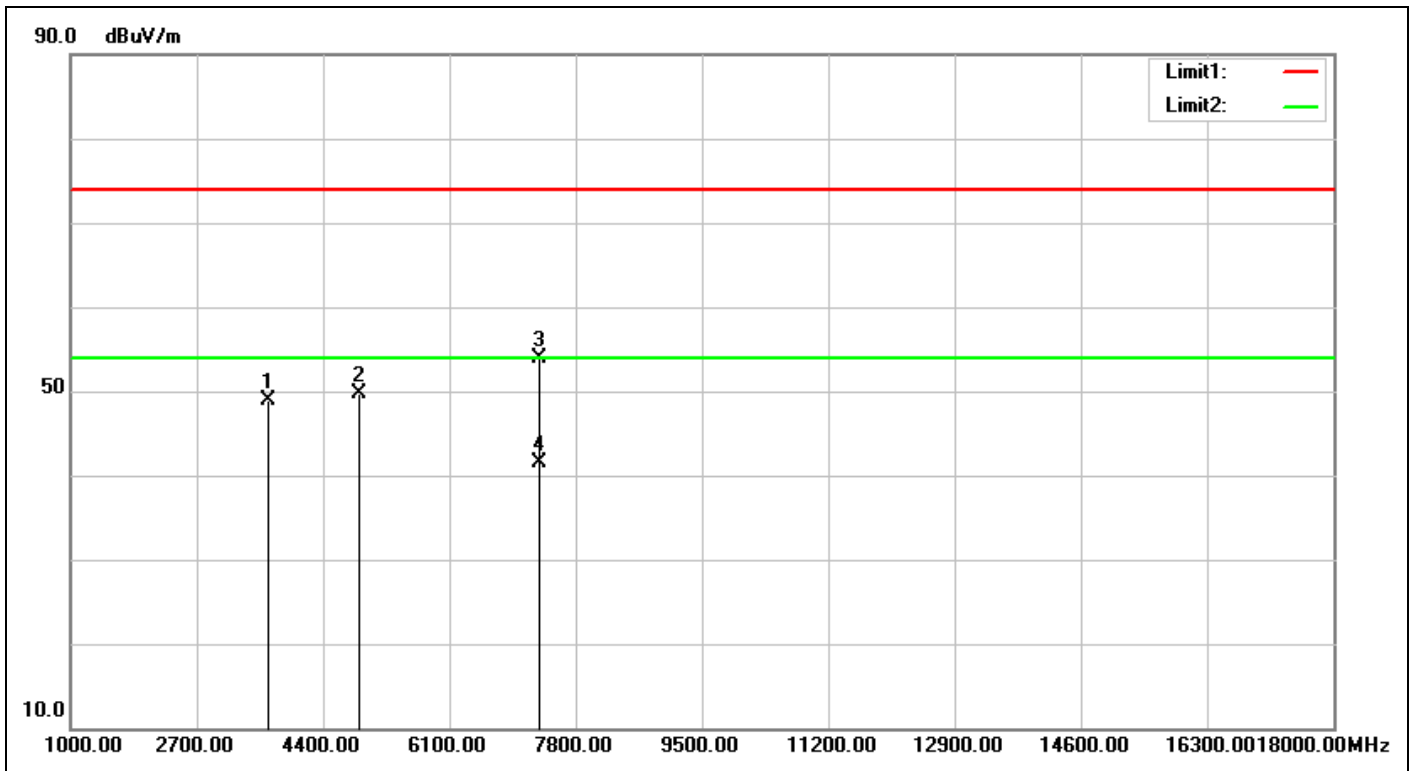
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 19:54:50
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4009.000	-2.71	53.10	50.39	74.00	-23.61	peak	100	0	
2	4824.000	0.50	48.66	49.16	74.00	-24.84	peak		0	
3	7236.000	9.20	45.26	54.46	74.00	-19.54	peak		0	
4	7236.000	9.20	33.30	42.50	54.00	-11.50	AVG		0	



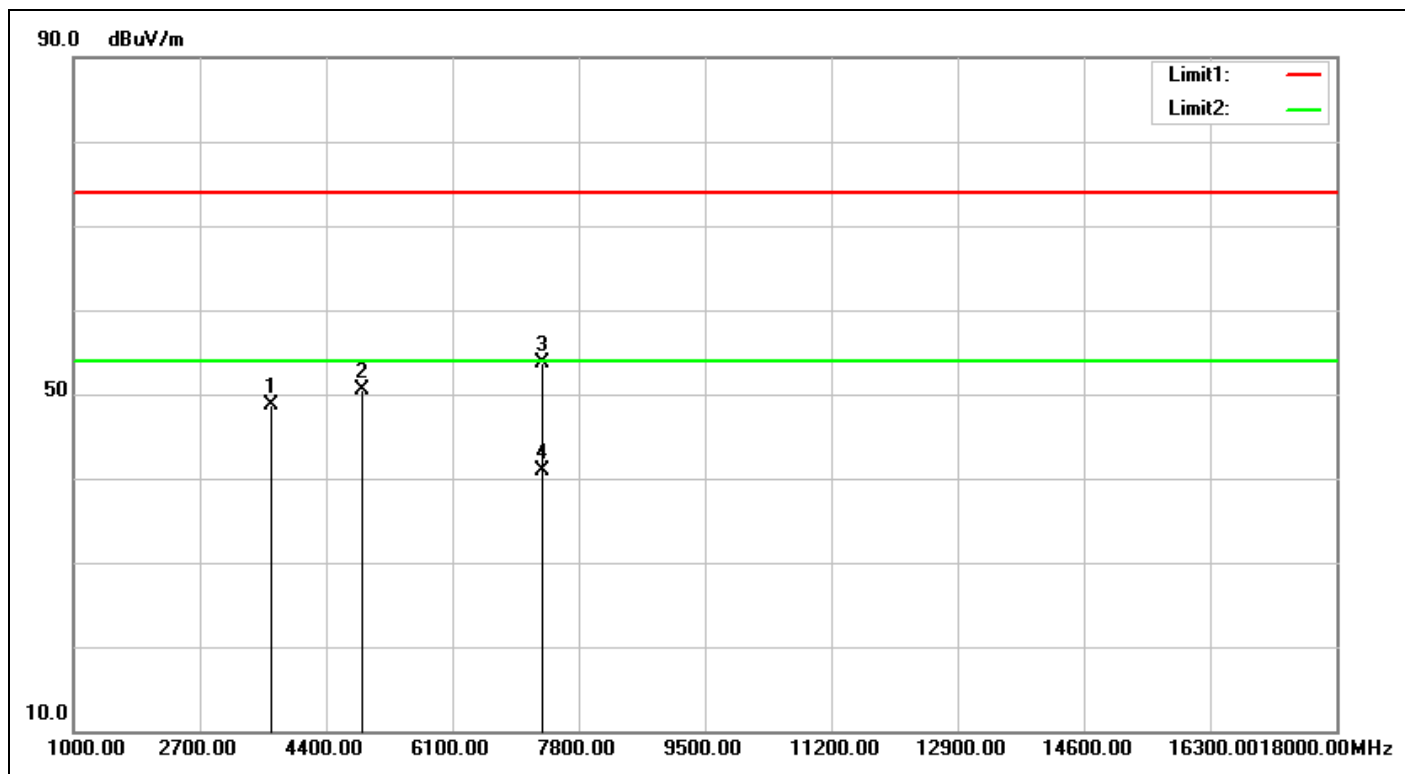
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 19:55:53
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4009.000	-2.71	53.25	50.54	74.00	-23.46	peak	100	351	
2	4824.000	0.50	48.43	48.93	74.00	-25.07	peak			
3	7236.000	9.20	45.57	54.77	74.00	-19.23	peak			
4	7236.000	9.20	32.80	42.00	54.00	-12.00	AVG			



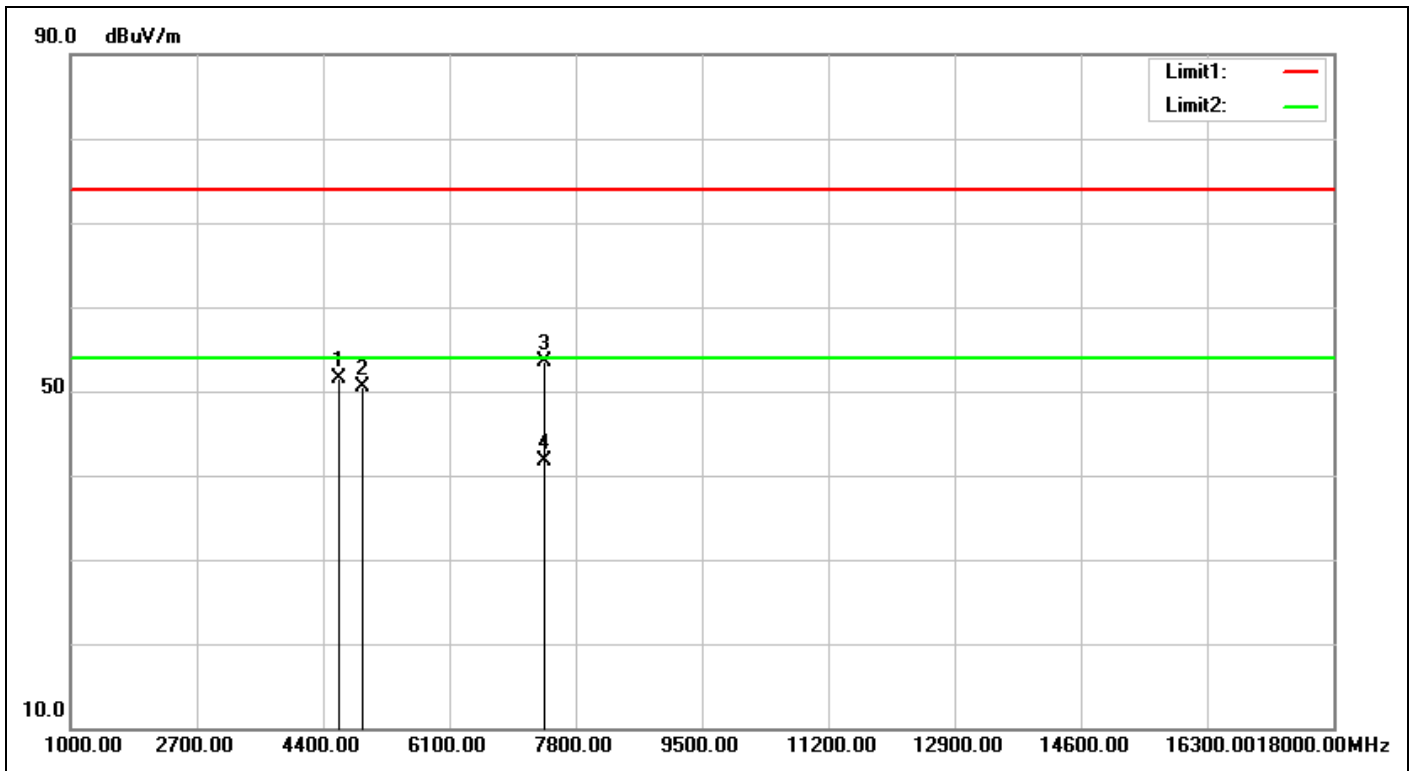
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 19:59:10
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3652.000	-3.25	52.13	48.88	74.00	-25.12	peak	100	229	
2	4874.000	0.65	48.99	49.64	74.00	-24.36	peak			
3	7311.000	9.42	44.51	53.93	74.00	-20.07	peak			
4	7311.000	9.42	32.08	41.50	54.00	-12.50	AVG			



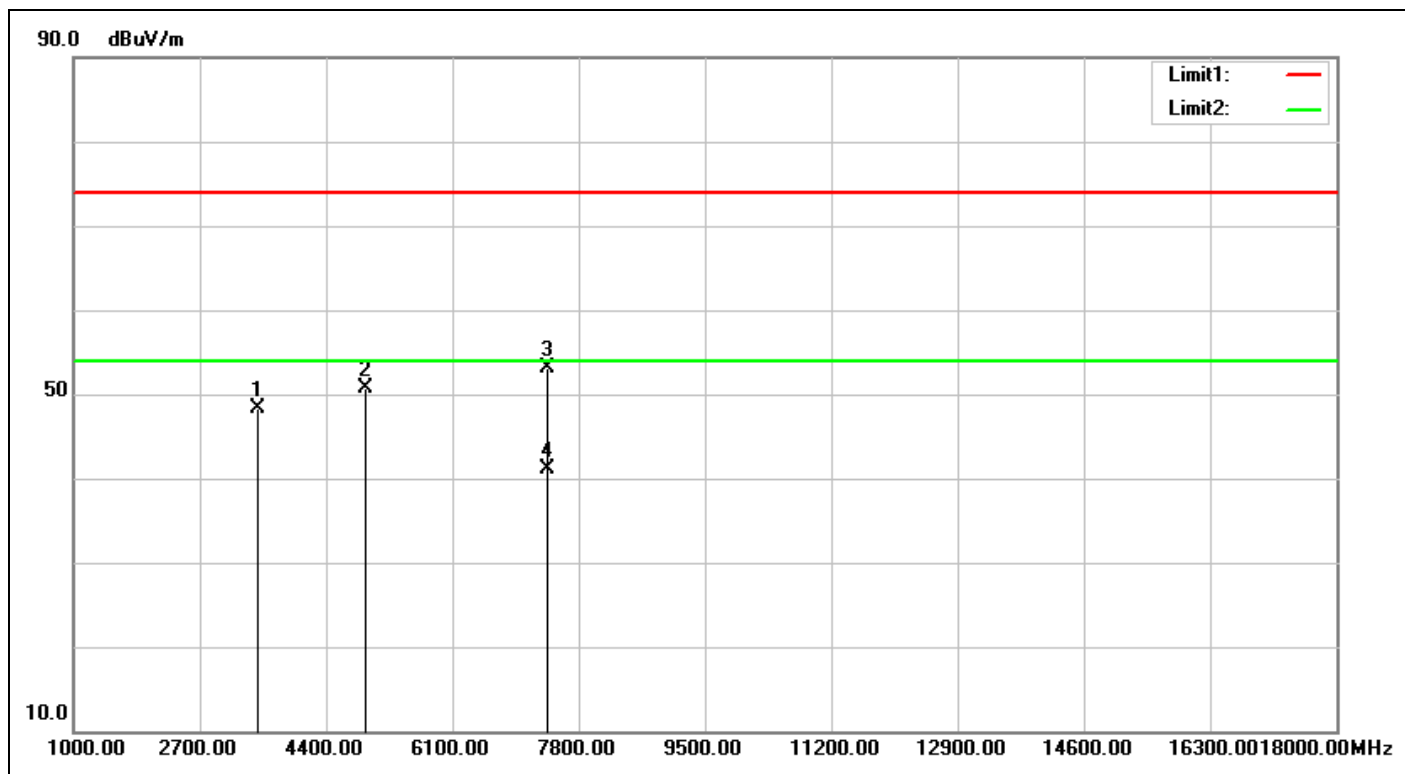
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:00:12
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3652.000	-3.25	51.89	48.64	74.00	-25.36	peak	100	155	
2	4874.000	0.65	49.87	50.52	74.00	-23.48	peak			
3	7311.000	9.42	44.19	53.61	74.00	-20.39	peak			
4	7311.000	9.42	31.58	41.00	54.00	-13.00	AVG			



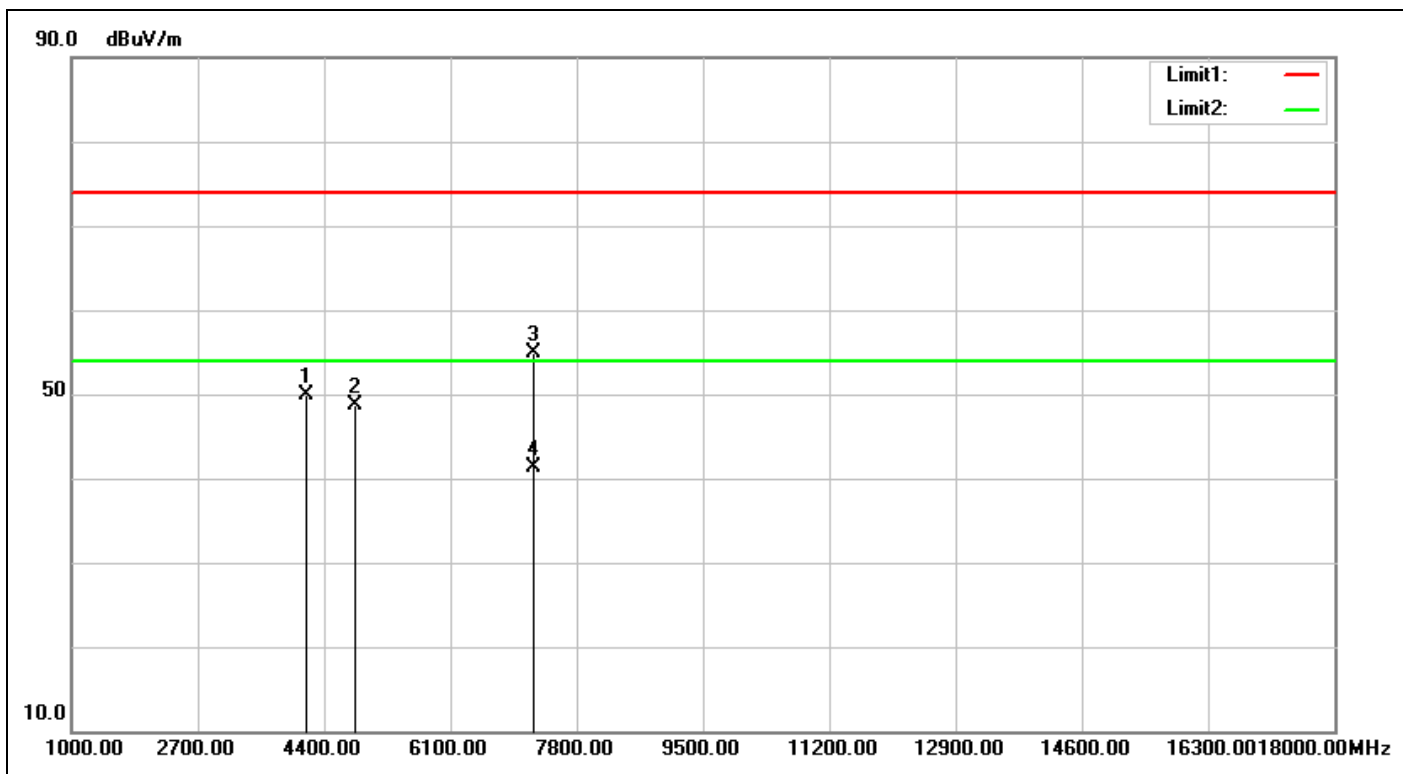
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:02:11
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4604.000	-0.17	51.58	51.41	74.00	-22.59	peak	100	216	
2	4924.000	0.80	49.79	50.59	74.00	-23.41	peak			
3	7386.000	9.62	43.97	53.59	74.00	-20.41	peak			
4	7386.000	9.62	32.18	41.80	54.00	-12.20	AVG			



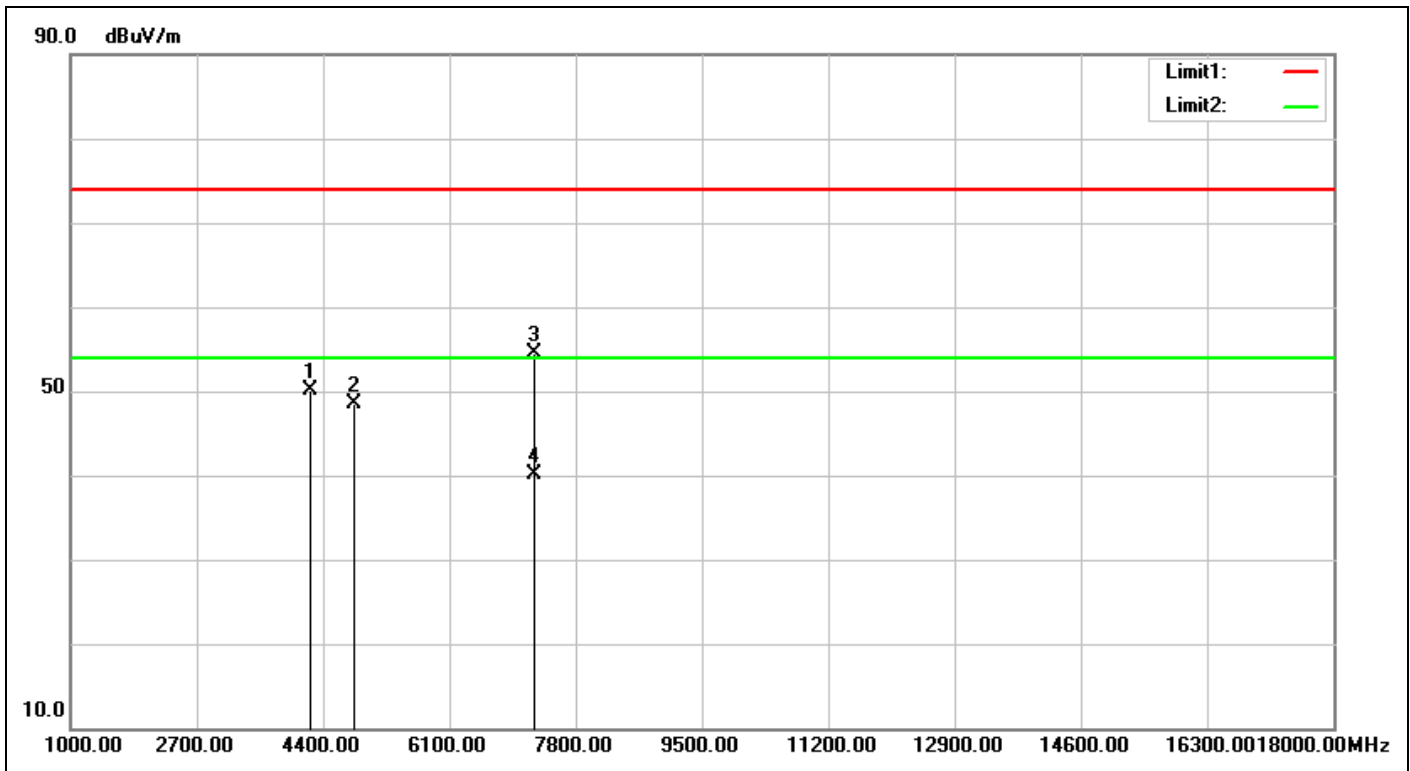
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:03:14
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3482.000	-3.50	51.86	48.36	74.00	-25.64	peak	100	31	
2	4924.000	0.80	49.85	50.65	74.00	-23.35	peak			
3	7386.000	9.62	43.50	53.12	74.00	-20.88	peak			
4	7386.000	9.62	31.48	41.10	54.00	-12.90	AVG			



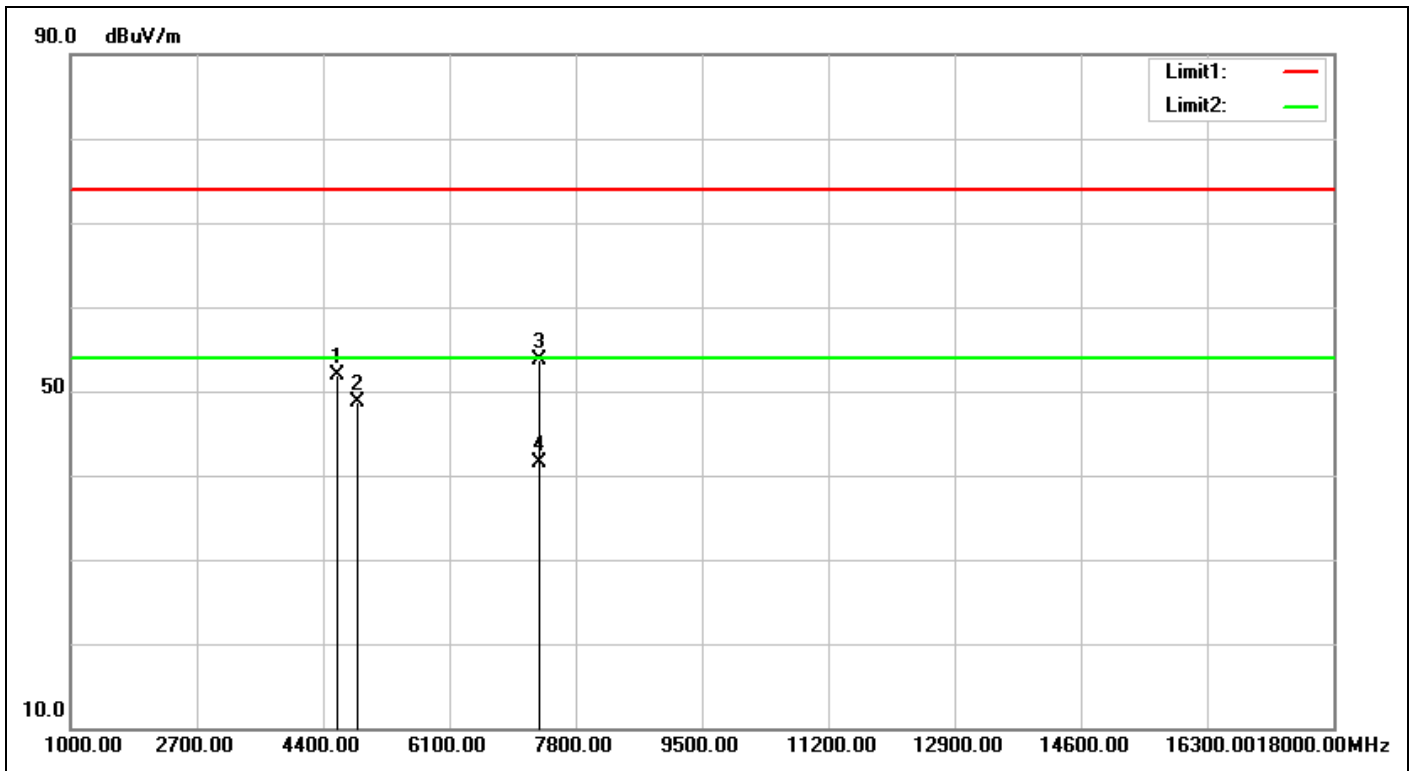
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:05:14
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4162.000	-2.01	51.89	49.88	74.00	-24.12	peak	100	166	
2	4824.000	0.50	48.24	48.74	74.00	-25.26	peak			
3	7236.000	9.20	45.77	54.97	74.00	-19.03	peak			
4	7236.000	9.20	32.10	41.30	54.00	-12.70	AVG			



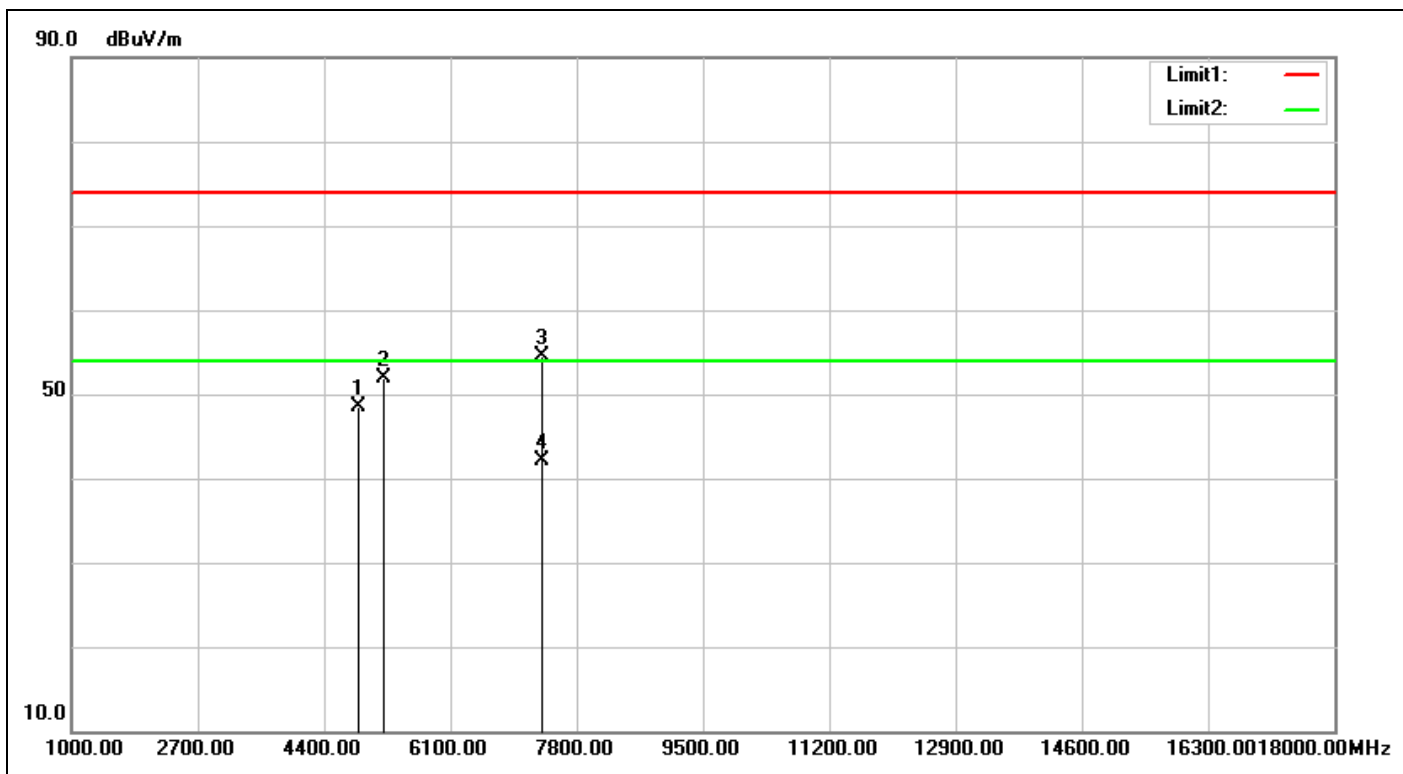
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:06:17
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4230.000	-1.71	51.75	50.04	74.00	-23.96	peak	100	277	
2	4824.000	0.50	48.09	48.59	74.00	-25.41	peak			
3	7236.000	9.20	45.22	54.42	74.00	-19.58	peak			
4	7236.000	9.20	31.00	40.20	54.00	-13.80	AVG			



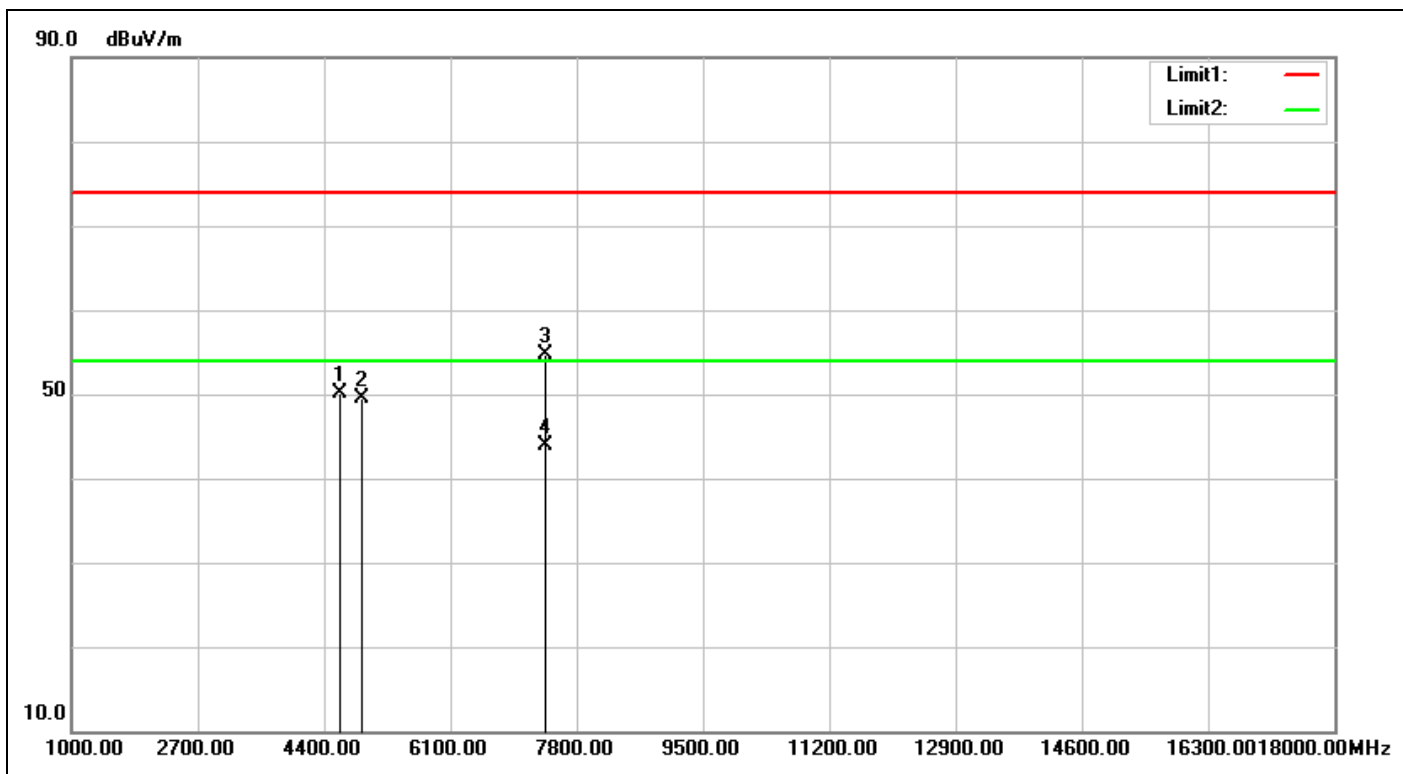
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:08:11
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4587.000	-0.23	52.13	51.90	74.00	-22.10	peak	100	296	
2	4874.000	0.65	47.99	48.64	74.00	-25.36	peak			
3	7311.000	9.42	44.32	53.74	74.00	-20.26	peak			
4	7311.000	9.42	32.18	41.60	54.00	-12.40	AVG			



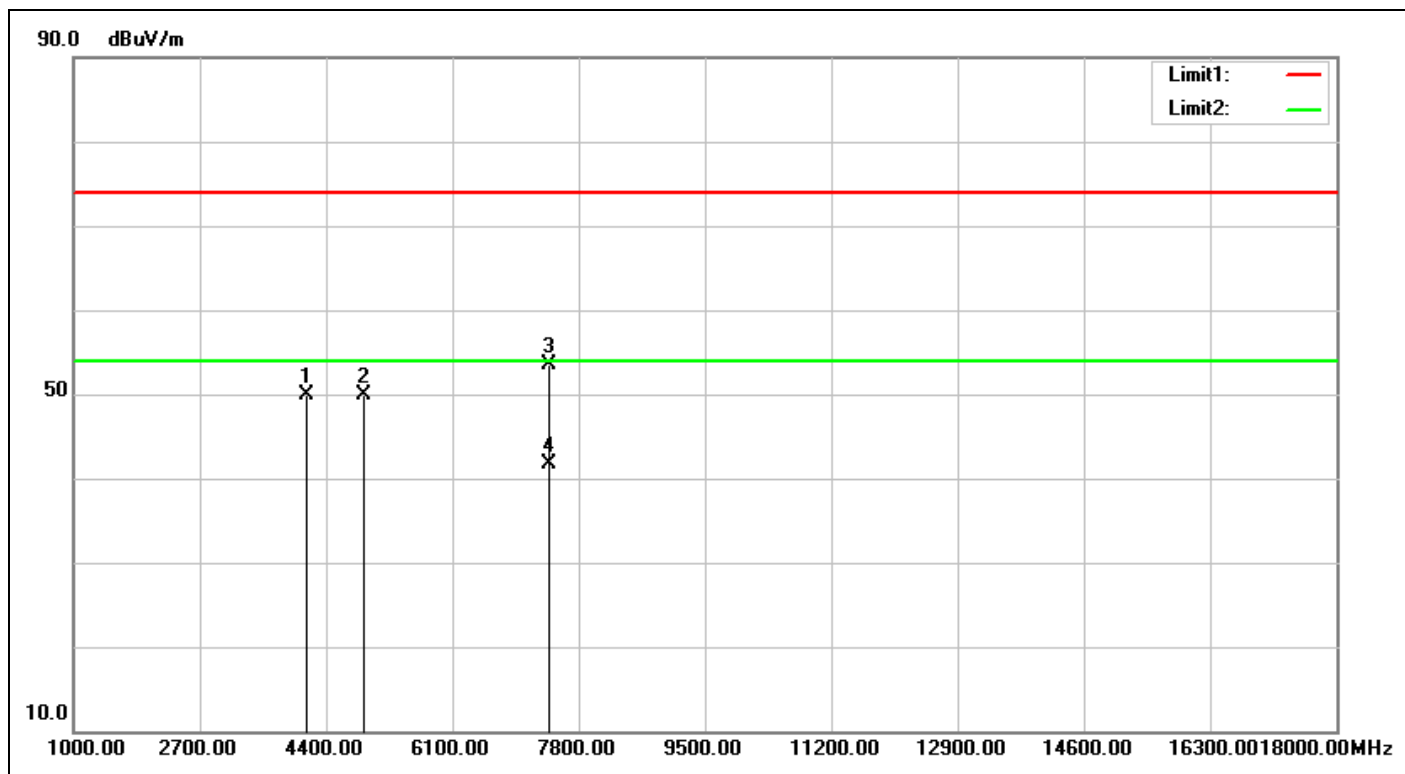
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:09:13
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	0.65	47.91	48.56	74.00	-25.44	peak			
2	5199.000	2.02	49.83	51.85	74.00	-22.15	peak	100	95	
3	7311.000	9.42	45.10	54.52	74.00	-19.48	peak			
4	7311.000	9.42	32.78	42.20	54.00	-11.80	AVG			



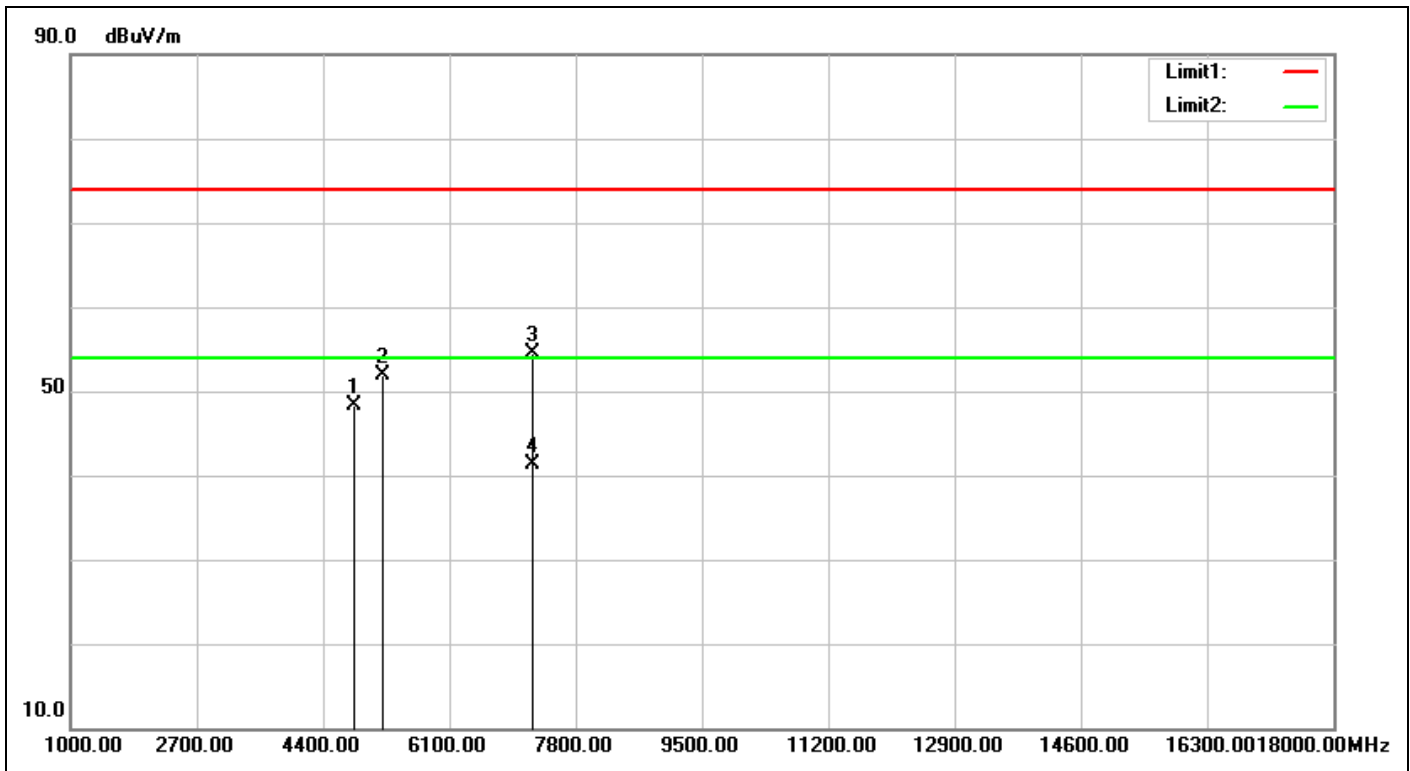
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:11:23
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4604.000	-0.17	50.26	50.09	74.00	-23.91	peak	100	210	
2	4924.000	0.80	48.62	49.42	74.00	-24.58	peak			
3	7386.000	9.62	45.17	54.79	74.00	-19.21	peak			
4	7386.000	9.62	34.19	43.81	54.00	-10.19	AVG			



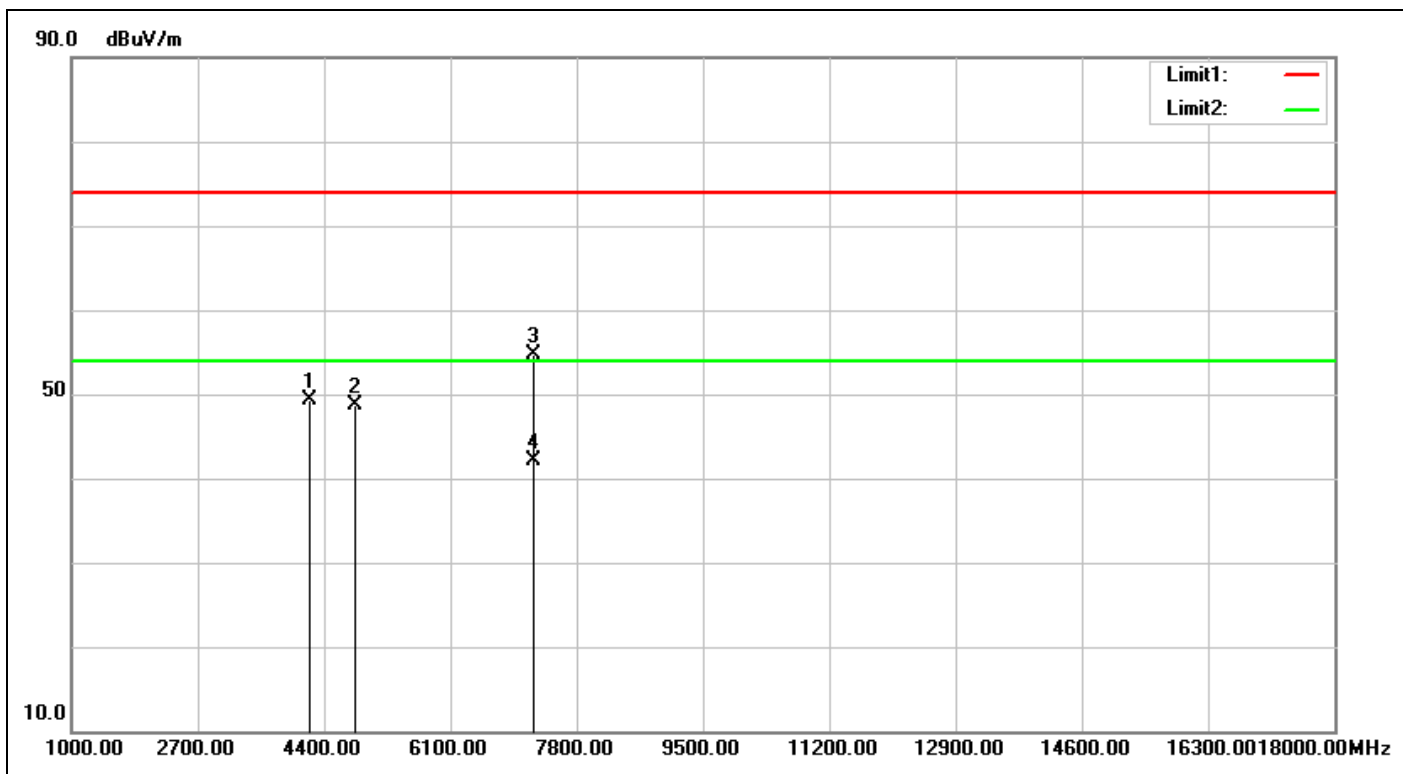
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:12:26
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4145.000	-2.10	51.94	49.84	74.00	-24.16	peak	100	338	
2	4924.000	0.80	49.13	49.93	74.00	-24.07	peak			
3	7386.000	9.62	43.92	53.54	74.00	-20.46	peak			
4	7386.000	9.62	32.08	41.70	54.00	-12.30	AVG			



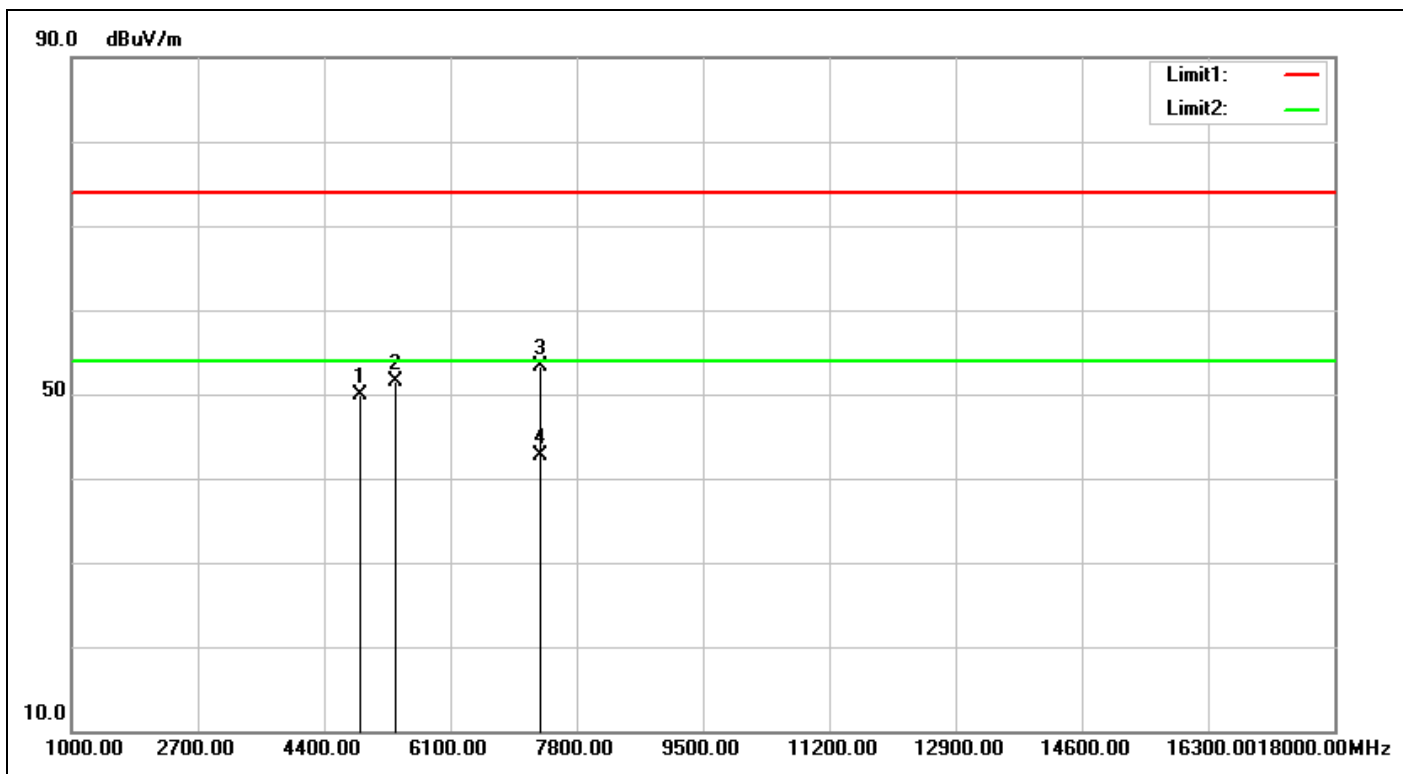
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:14:33
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G20-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	0.50	47.72	48.22	74.00	-25.78	peak			
2	5199.000	2.02	49.95	51.97	74.00	-22.03	peak	100	301	
3	7236.000	9.20	45.31	54.51	74.00	-19.49	peak			
4	7236.000	9.20	32.10	41.30	54.00	-12.70	AVG			



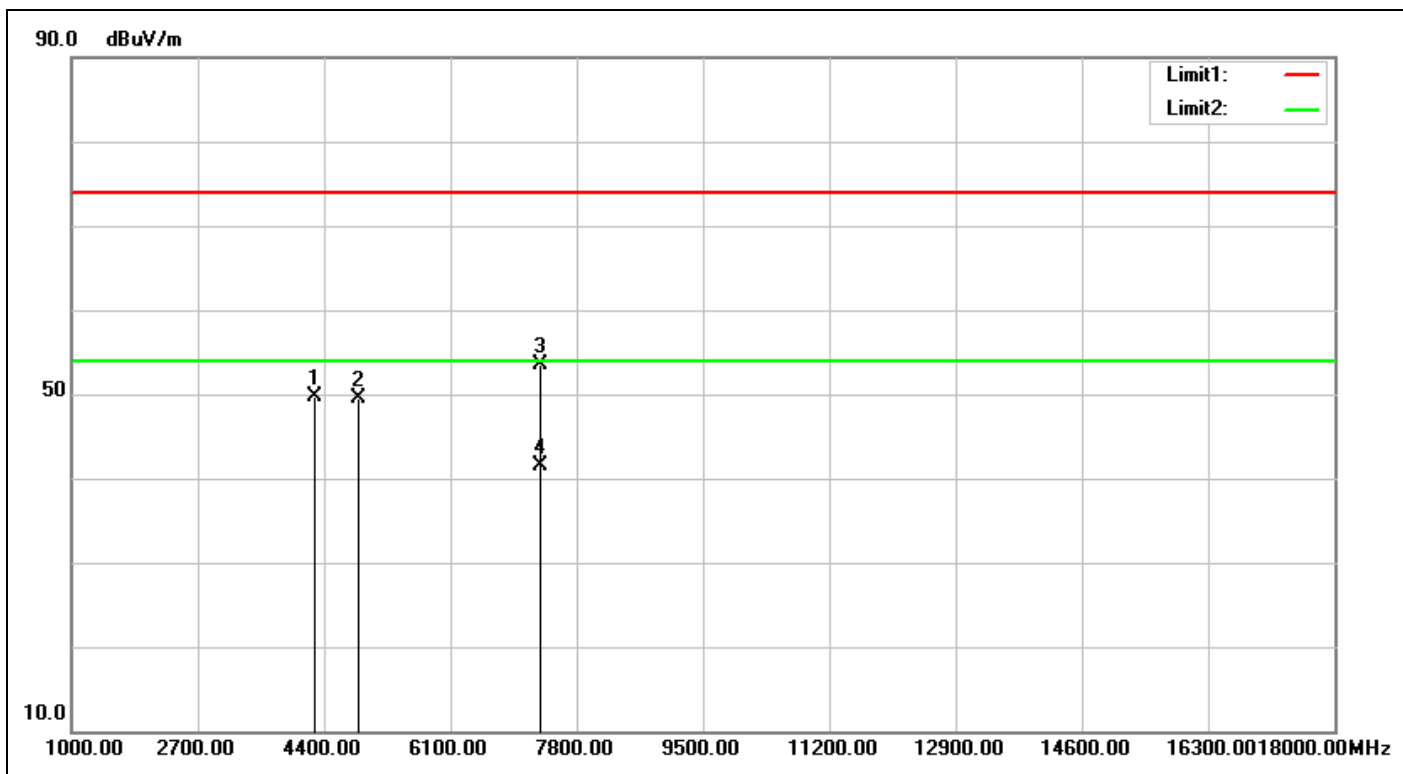
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:15:36
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G20-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4196.000	-1.87	51.23	49.36	74.00	-24.64	peak	100	133	
2	4824.000	0.50	48.11	48.61	74.00	-25.39	peak			
3	7236.000	9.20	45.51	54.71	74.00	-19.29	peak			
4	7236.000	9.20	32.90	42.10	54.00	-11.90	AVG			



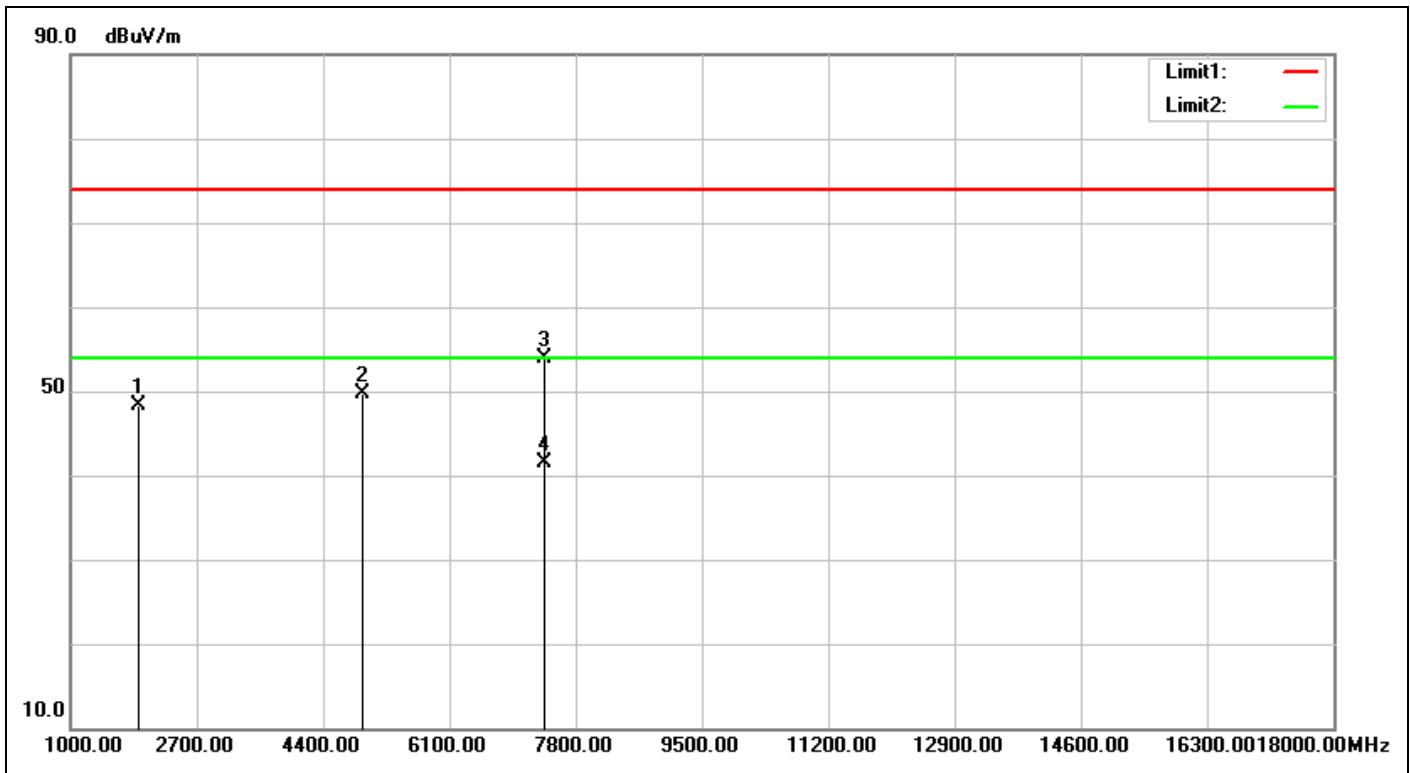
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:17:38
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G20-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	0.65	49.28	49.93	74.00	-24.07	peak			
2	5369.000	2.86	48.63	51.49	74.00	-22.51	peak	100	3	
3	7311.000	9.42	43.98	53.40	74.00	-20.60	peak			
4	7311.000	9.42	33.38	42.80	54.00	-11.20	AVG			



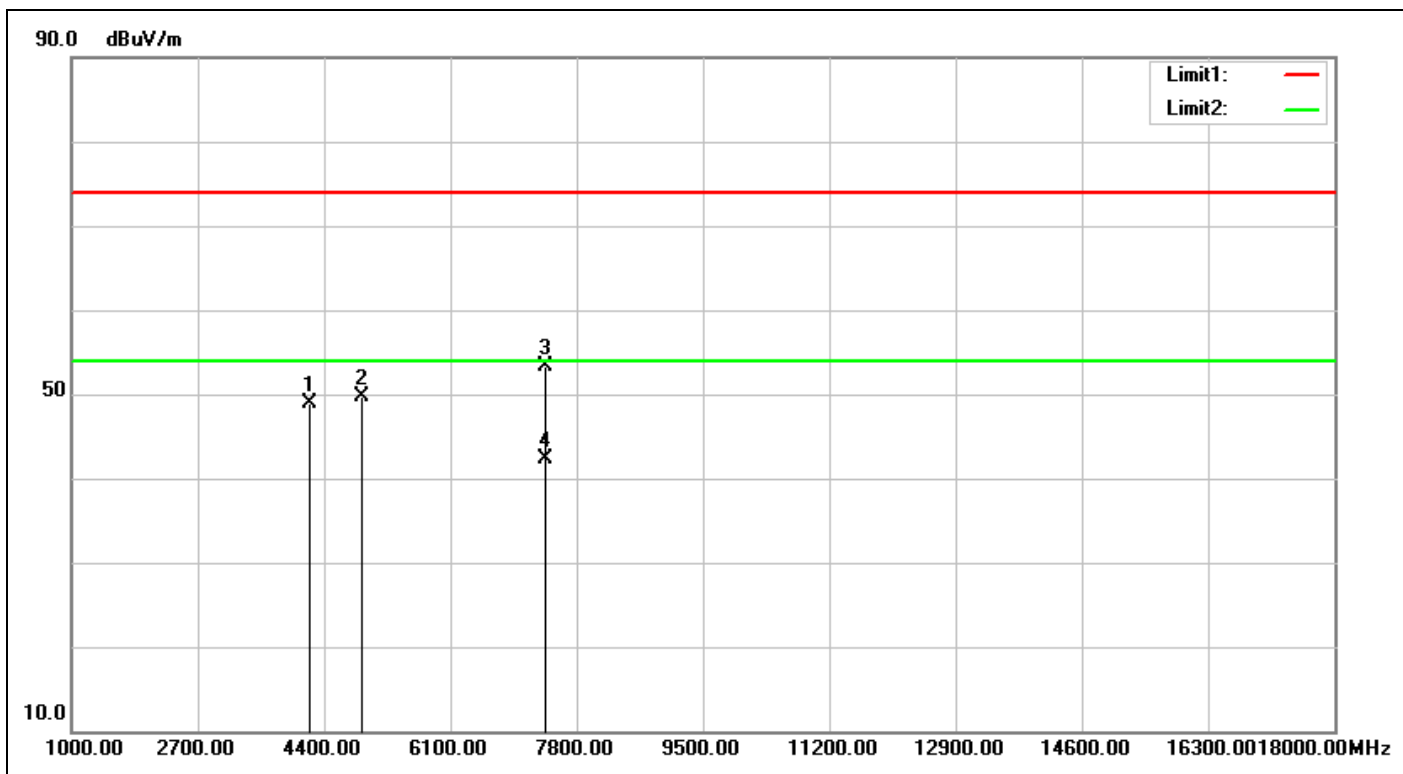
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:18:41
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G20-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4264.000	-1.54	51.16	49.62	74.00	-24.38	peak	100	269	
2	4874.000	0.65	48.82	49.47	74.00	-24.53	peak			
3	7311.000	9.42	44.15	53.57	74.00	-20.43	peak			
4	7311.000	9.42	32.18	41.60	54.00	-12.40	AVG			



Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:20:46
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G20-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1918.000	-5.67	54.00	48.33	74.00	-25.67	peak	100	149	
2	4924.000	0.80	48.93	49.73	74.00	-24.27	peak			
3	7386.000	9.62	44.19	53.81	74.00	-20.19	peak			
4	7386.000	9.62	31.91	41.53	54.00	-12.47	AVG			



Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:21:49
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	G20-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4213.000	-1.78	50.63	48.85	74.00	-25.15	peak	100	358	
2	4924.000	0.80	48.81	49.61	74.00	-24.39	peak			
3	7386.000	9.62	43.60	53.22	74.00	-20.78	peak			
4	7386.000	9.62	32.70	42.32	54.00	-11.68	AVG			

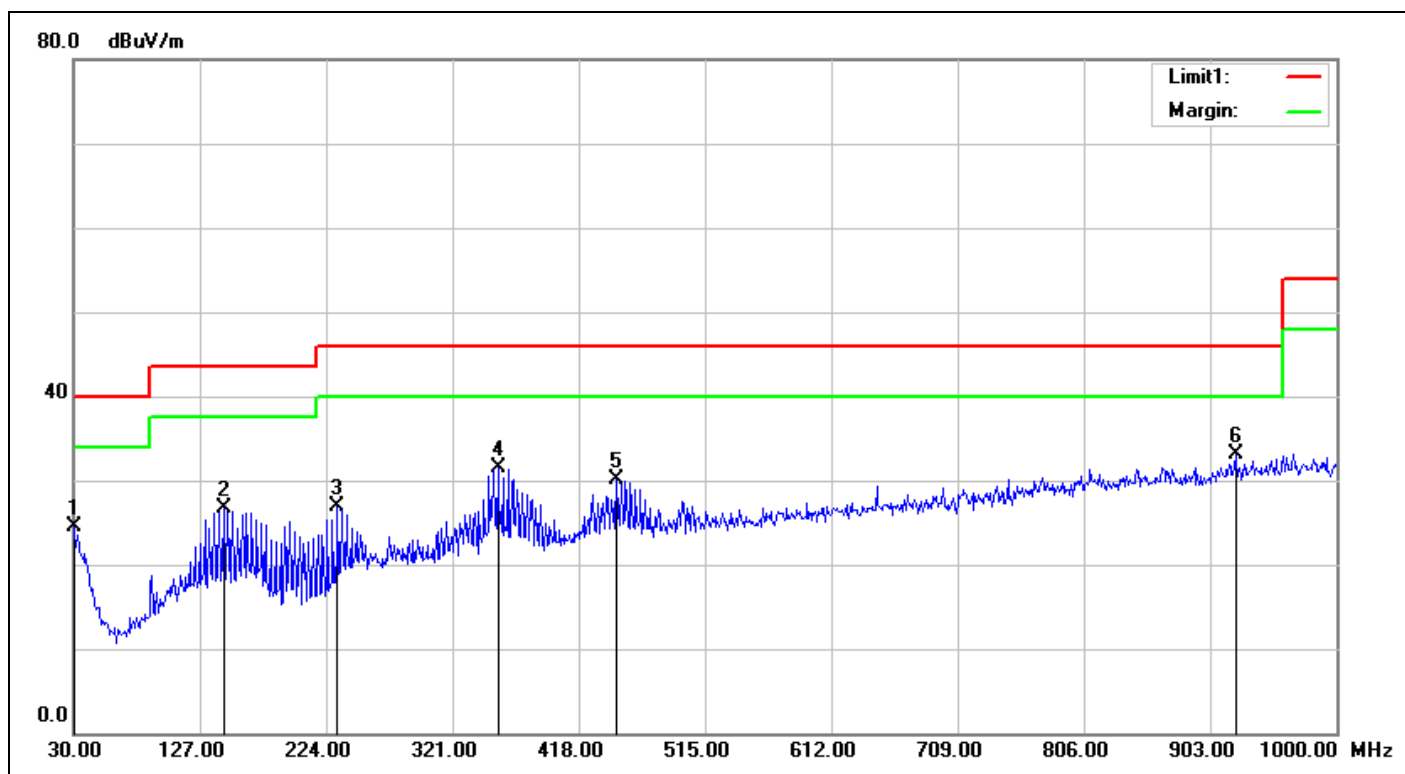
Spurious Emissions, TX Mode, 30M-1G



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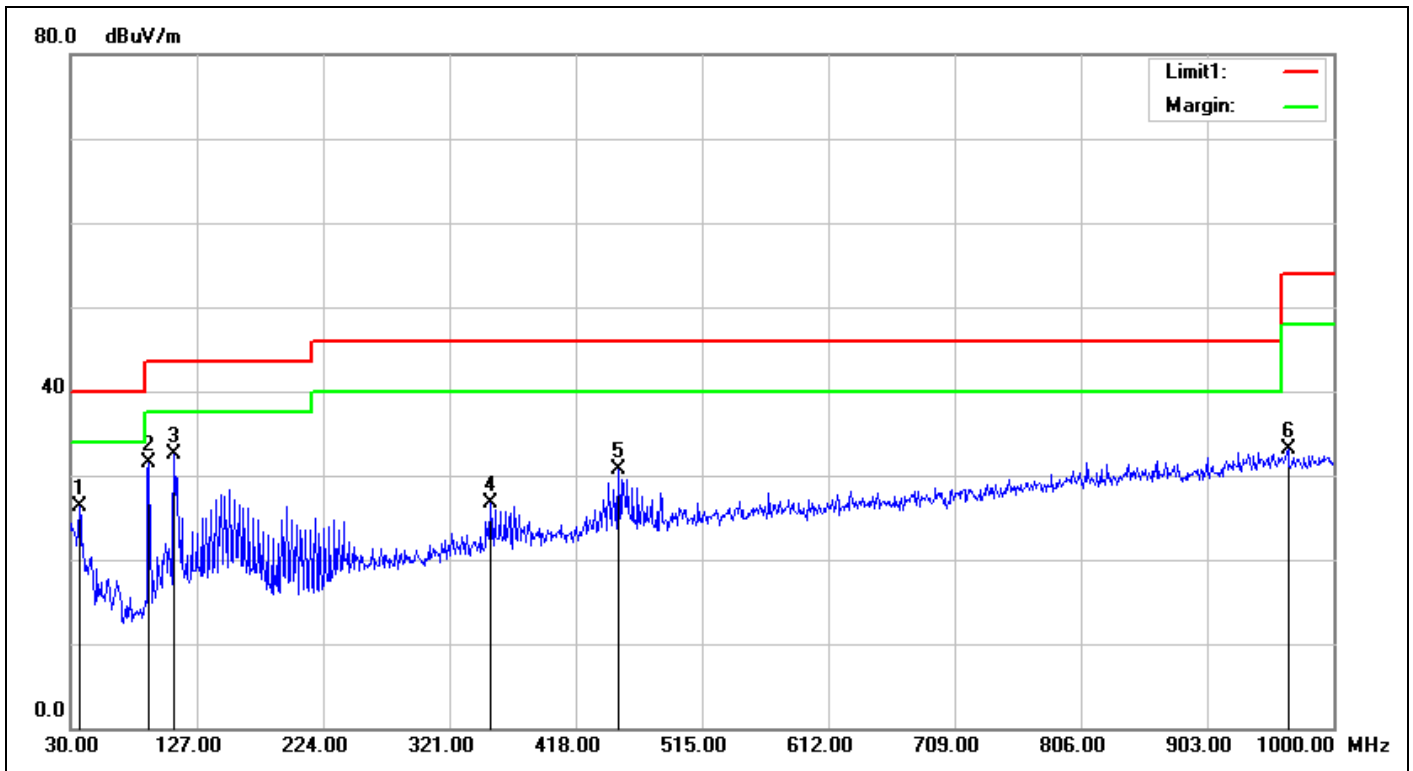
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel: +886-2172-7000 fax: +886-2528-0018



Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:58:14
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-1.31	25.80	24.49	40.00	-15.51	QP	100	64	
2	145.4299	-8.27	34.91	26.64	43.50	-16.86	QP	100	306	
3	232.7299	-8.58	35.51	26.93	46.00	-19.07	QP	100	232	
4	355.9200	-4.36	35.84	31.48	46.00	-14.52	QP	100	160	
5	447.1000	-2.98	33.06	30.08	46.00	-15.92	QP	100	171	
6	922.3999	4.36	28.68	33.04	46.00	-12.96	QP	100	205	



Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:59:18
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	36.7900	-4.89	31.27	26.38	40.00	-13.62	QP	100	206	
2	90.1400	-12.09	43.60	31.51	43.50	-11.99	QP	100	333	
3	109.5400	-9.34	41.87	32.53	43.50	-10.97	QP	100	187	
4	353.0100	-4.42	31.21	26.79	46.00	-19.21	QP	100	230	
5	450.9800	-2.94	33.61	30.67	46.00	-15.33	QP	100	198	
6	965.0800	5.10	27.93	33.03	54.00	-20.97	QP	100	30	

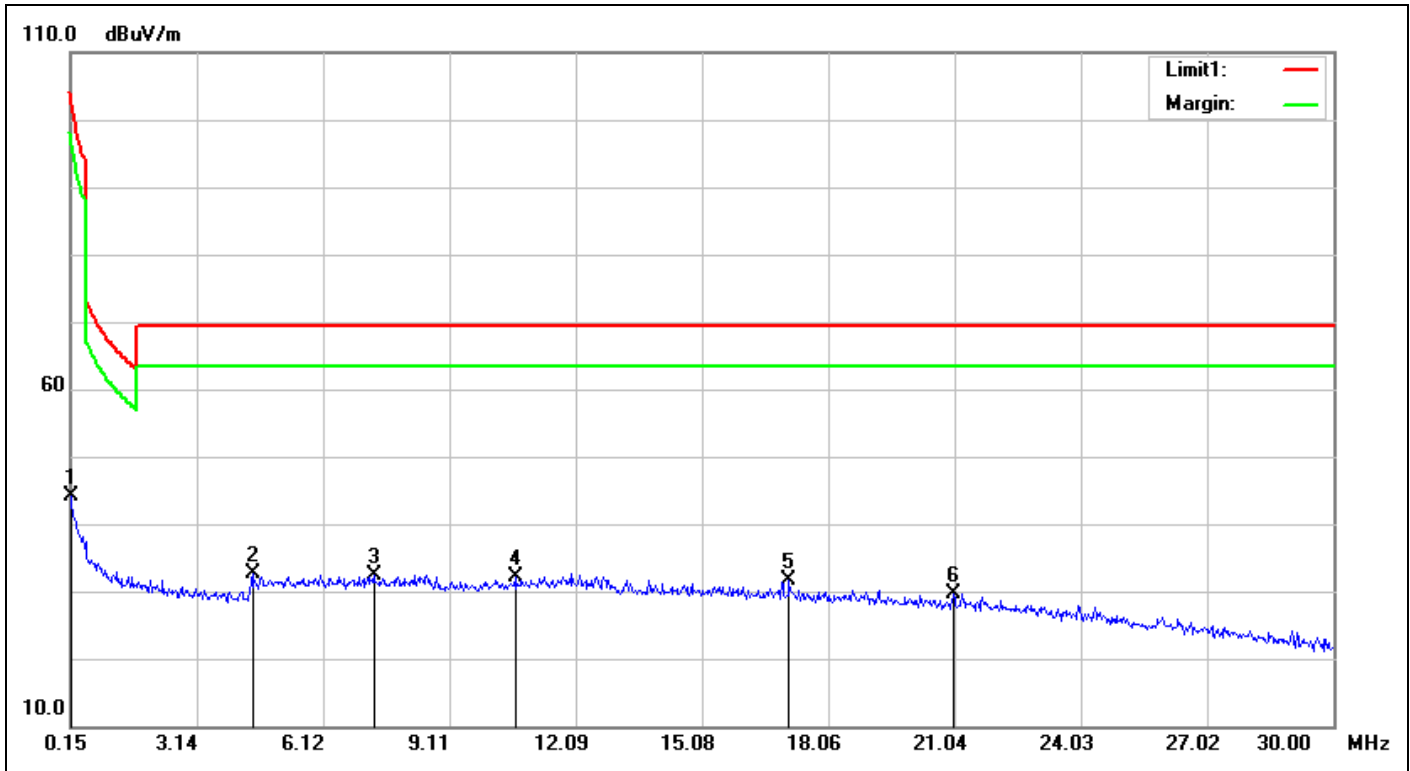
Spurious Emissions, TX Mode, 150K-30M



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Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/8/8 20:51:32
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1499	19.08	25.10	44.18	104.02	-59.84	QP	100	102	
2	4.4484	19.42	13.23	32.65	69.50	-36.85	QP	100	330	
3	7.3140	19.98	12.34	32.32	69.50	-37.18	QP	100	104	
4	10.6571	20.33	11.85	32.18	69.50	-37.32	QP	100	330	
5	17.1345	21.48	10.16	31.64	69.50	-37.86	QP	100	256	
6	21.0151	22.05	7.60	29.65	69.50	-39.85	QP	100	104	

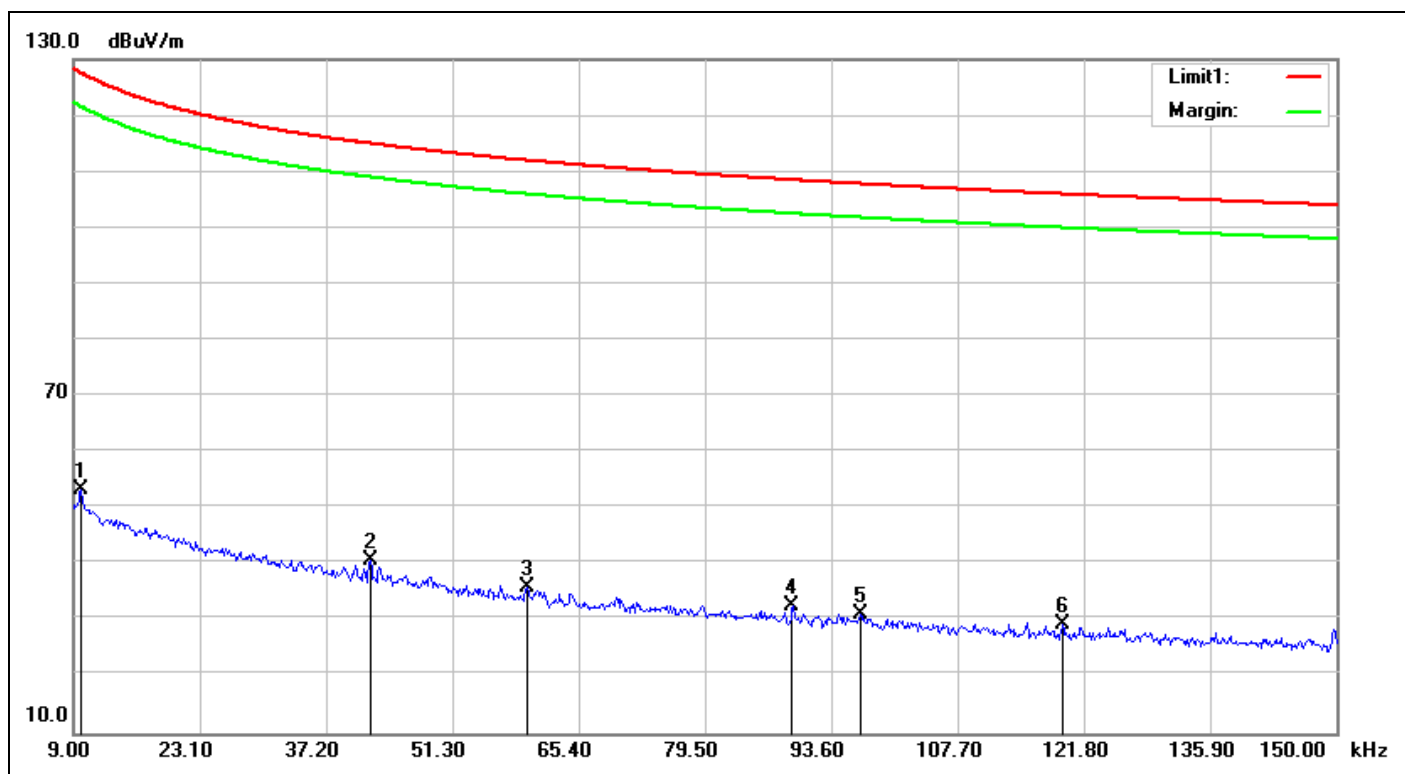
Spurious Emissions, TX Mode, 9K-150K



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Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/8/8 20:48:17
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0098	19.86	33.35	53.21	127.57	-74.36	QP	100	59	
2	0.0421	19.70	20.96	40.66	114.99	-74.33	QP	100	304	
3	0.0596	19.37	16.46	35.83	111.99	-76.16	QP	100	16	
4	0.0892	19.19	13.57	32.76	108.50	-75.74	QP	100	333	
5	0.0967	19.15	12.02	31.17	107.81	-76.64	QP	100	317	
6	0.1194	19.11	10.24	29.35	105.99	-76.64	QP	100	2	

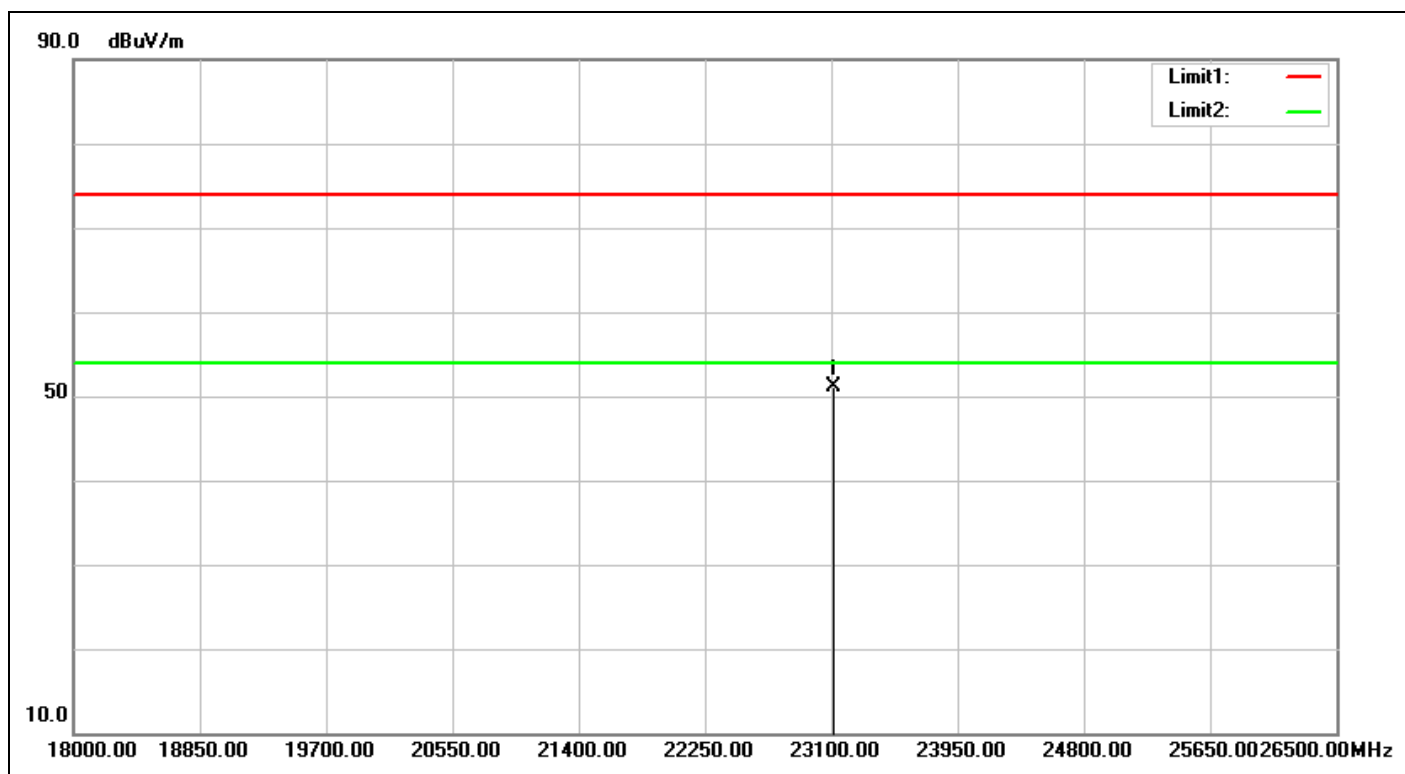
Spurious Emissions, RX Mode, 18-26G



TUV Rheinland Taiwan Ltd.

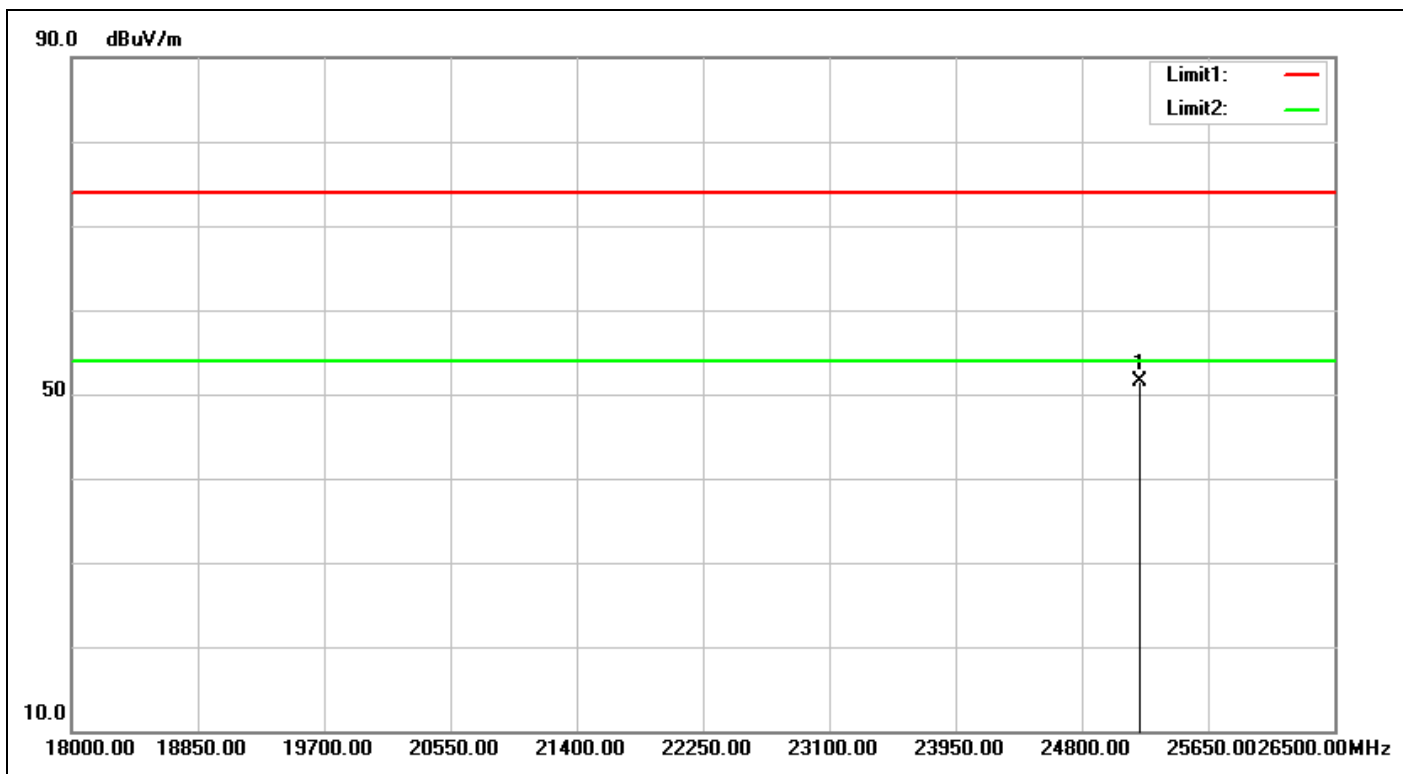
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Tel: +886-2172-7000 fax: +886-2528-0018



Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:34:30
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23117.000	32.20	18.85	51.05	74.00	-22.95	peak			



Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:34:39
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25191.000	33.82	17.67	51.49	74.00	-22.51	peak			

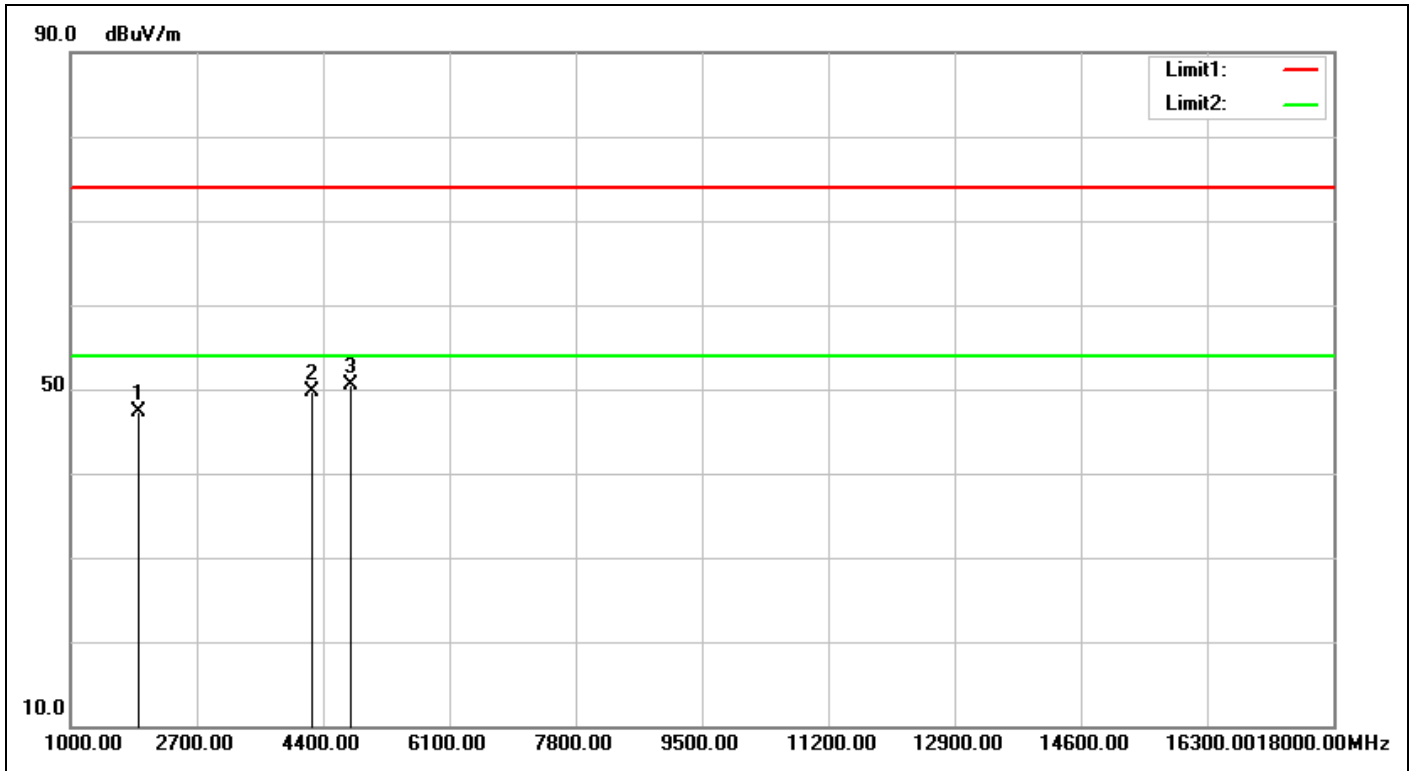
Spurious Emissions, RX Mode, 1-18G



TUV Rheinland Taiwan Ltd.

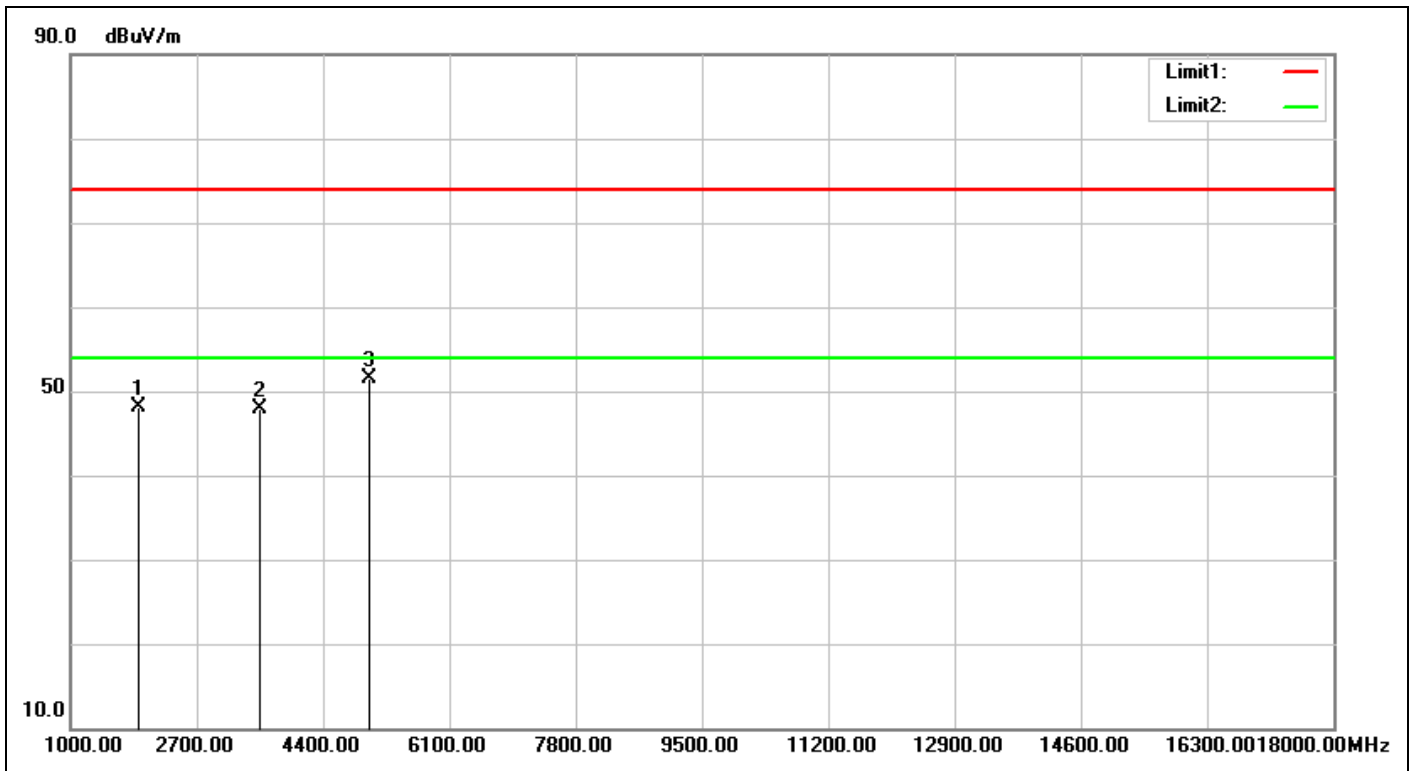
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel: +886-2172-7000 fax: +886-2528-0018



Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 20:23:54
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1918.000	-5.67	52.99	47.32	74.00	-26.68	peak	100	47	
2	4247.000	-1.63	51.30	49.67	74.00	-24.33	peak	100	17	
3	4774.000	0.35	50.15	50.50	74.00	-23.50	peak	100	83	



Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 20:24:56
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1918.000	-5.67	53.69	48.02	74.00	-25.98	peak	100	297	
2	3550.000	-3.41	51.26	47.85	74.00	-26.15	peak	100	136	
3	5029.000	1.17	50.30	51.47	74.00	-22.53	peak	100	26	

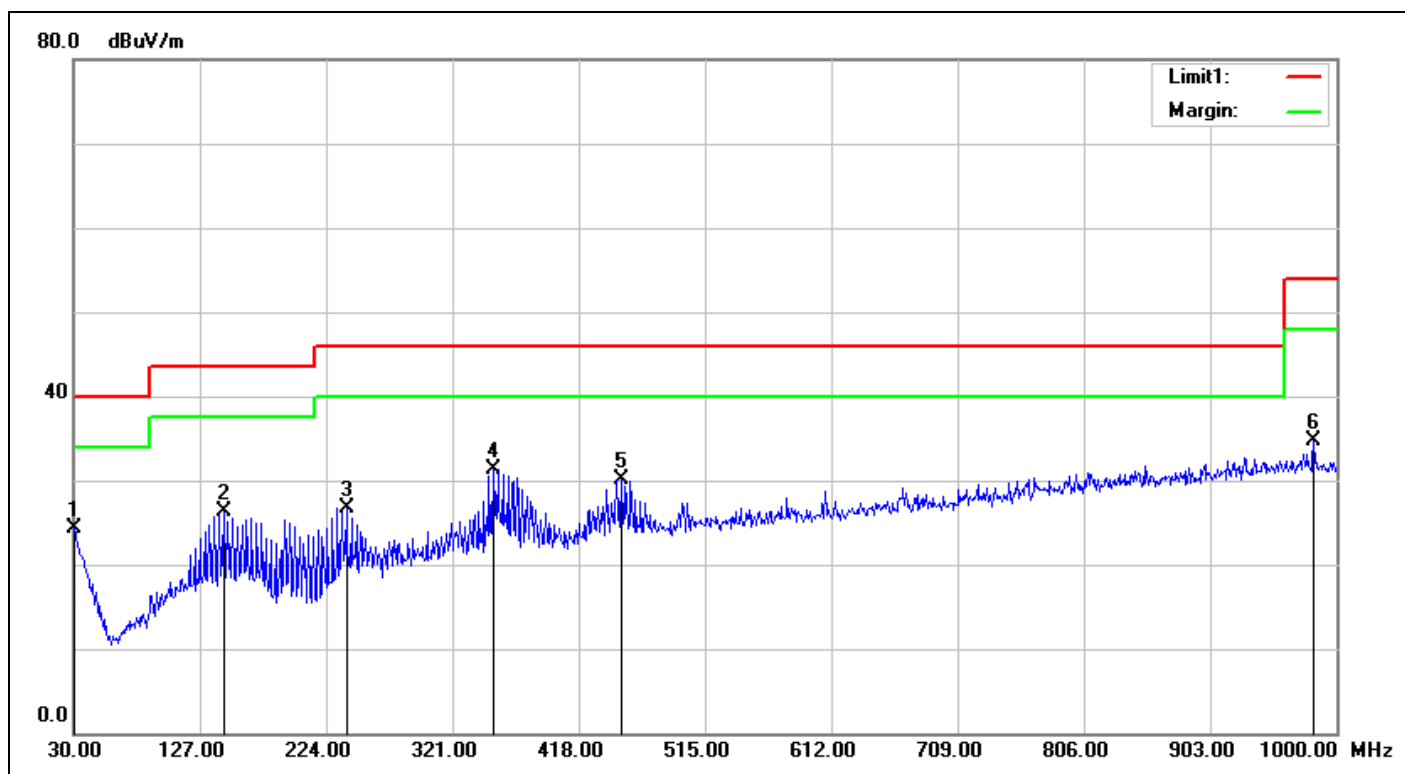
Spurious Emissions, RX Mode, 30M-1G



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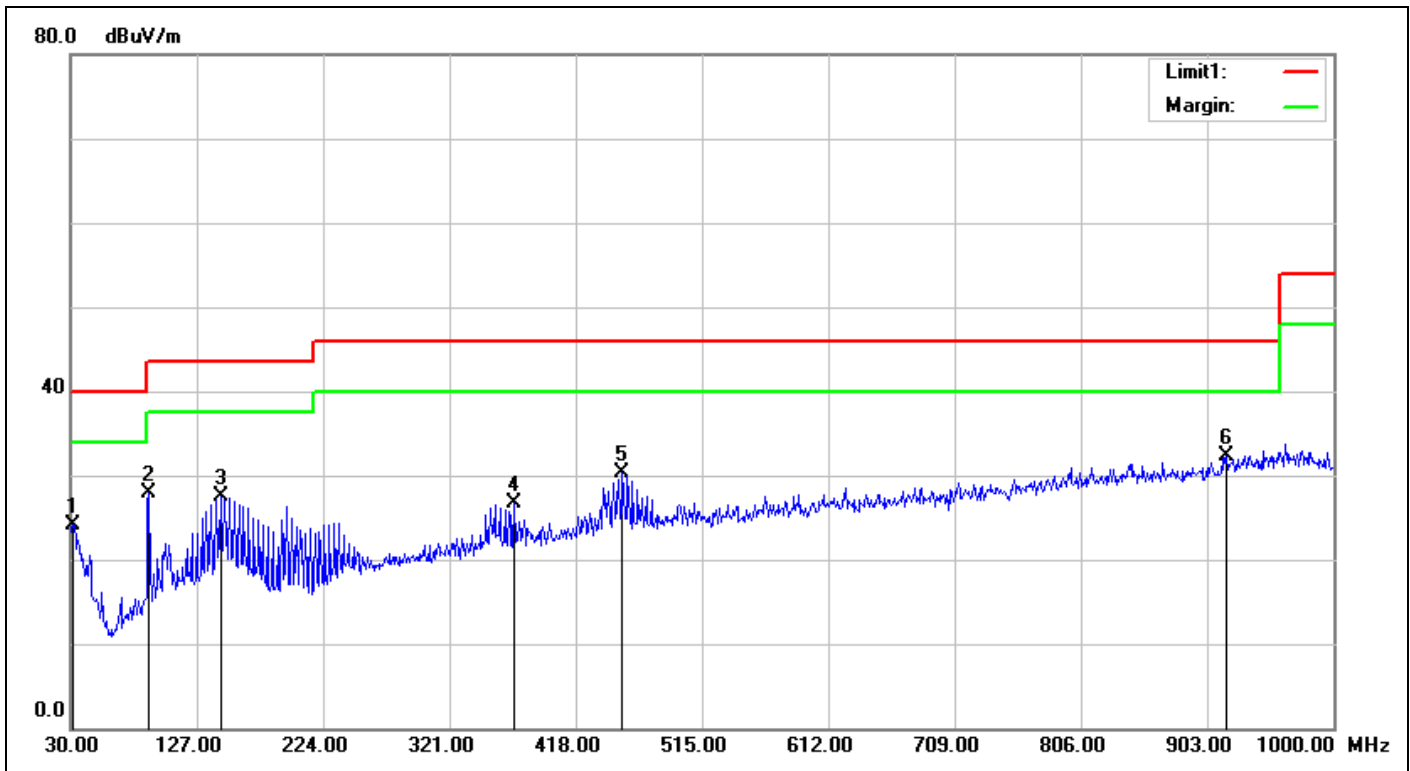
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Tel: +886-2172-7000 fax: +886-2528-0018



Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/8/8 21:00:55
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9699	-1.80	26.11	24.31	40.00	-15.69	QP	100	163	
2	145.4299	-8.27	34.50	26.23	43.50	-17.27	QP	100	291	
3	239.5200	-8.00	34.78	26.78	46.00	-19.22	QP	100	243	
4	353.0099	-4.42	35.77	31.35	46.00	-14.65	QP	100	161	
5	450.9800	-2.94	33.13	30.19	46.00	-15.81	QP	100	166	
6	982.5399	5.06	29.61	34.67	54.00	-19.33	QP	100	112	



Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/8/8 21:01:59
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%):	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	31.9400	-2.31	26.50	24.19	40.00	-15.81	QP	100	99	
2	90.1400	-12.09	40.01	27.92	43.50	-15.58	QP	100	290	
3	145.4299	-8.27	35.75	27.48	43.50	-16.02	QP	100	235	
4	370.4700	-4.09	30.75	26.66	46.00	-19.34	QP	100	181	
5	453.8900	-2.88	33.13	30.25	46.00	-15.75	QP	100	224	
6	917.5500	4.22	28.09	32.31	46.00	-13.69	QP	100	133	

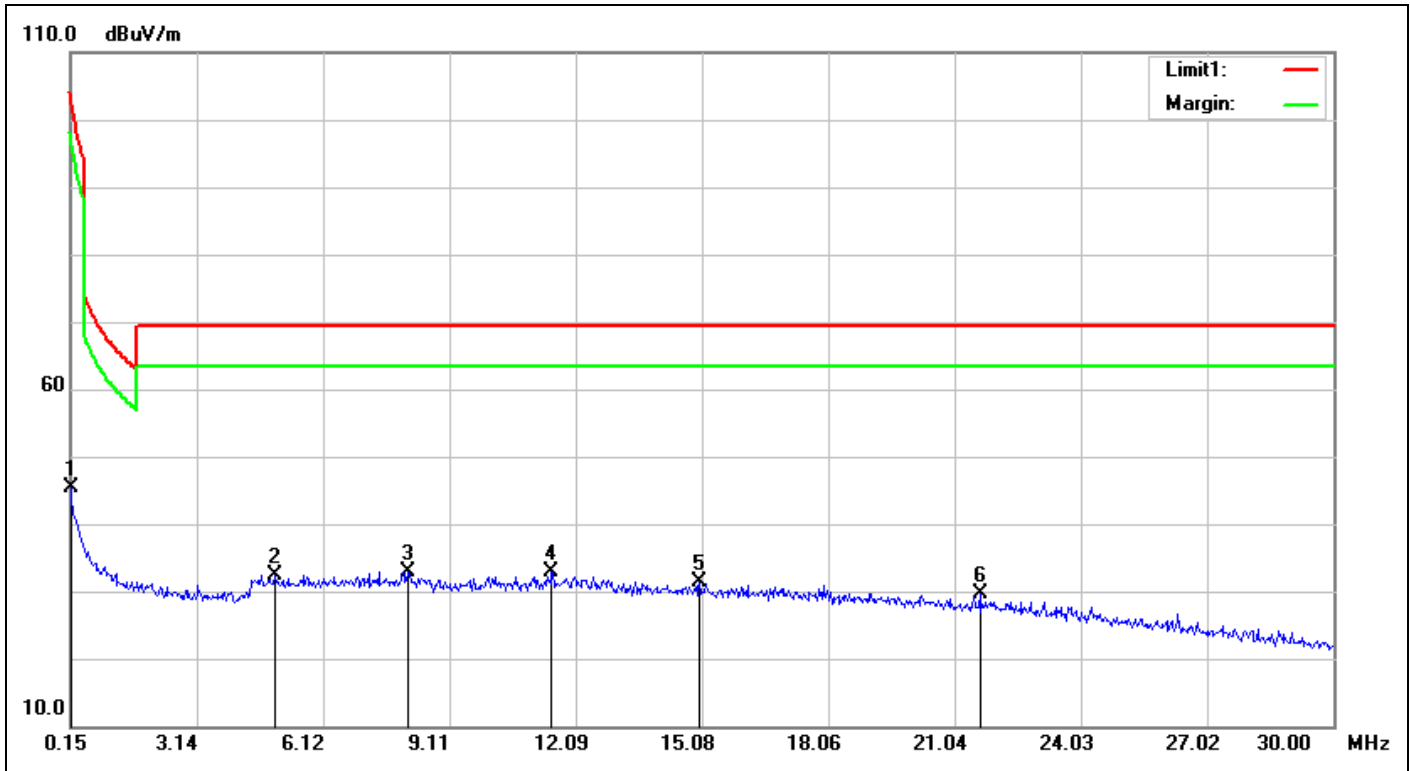
Spurious Emissions, RX Mode, 150K-30M



TUV Rheinland Taiwan Ltd.

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Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/8/8 20:52:35
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1500	19.08	26.28	45.36	104.05	-58.69	QP	100	259	
2	4.9856	19.75	12.56	32.31	69.50	-37.19	QP	100	282	
3	8.1198	20.05	12.89	32.94	69.50	-36.56	QP	100	277	
4	11.5229	20.49	12.38	32.87	69.50	-36.63	QP	100	192	
5	15.0153	21.10	10.19	31.29	69.50	-38.21	QP	100	166	
6	21.6420	22.10	7.44	29.54	69.50	-39.96	QP	100	72	

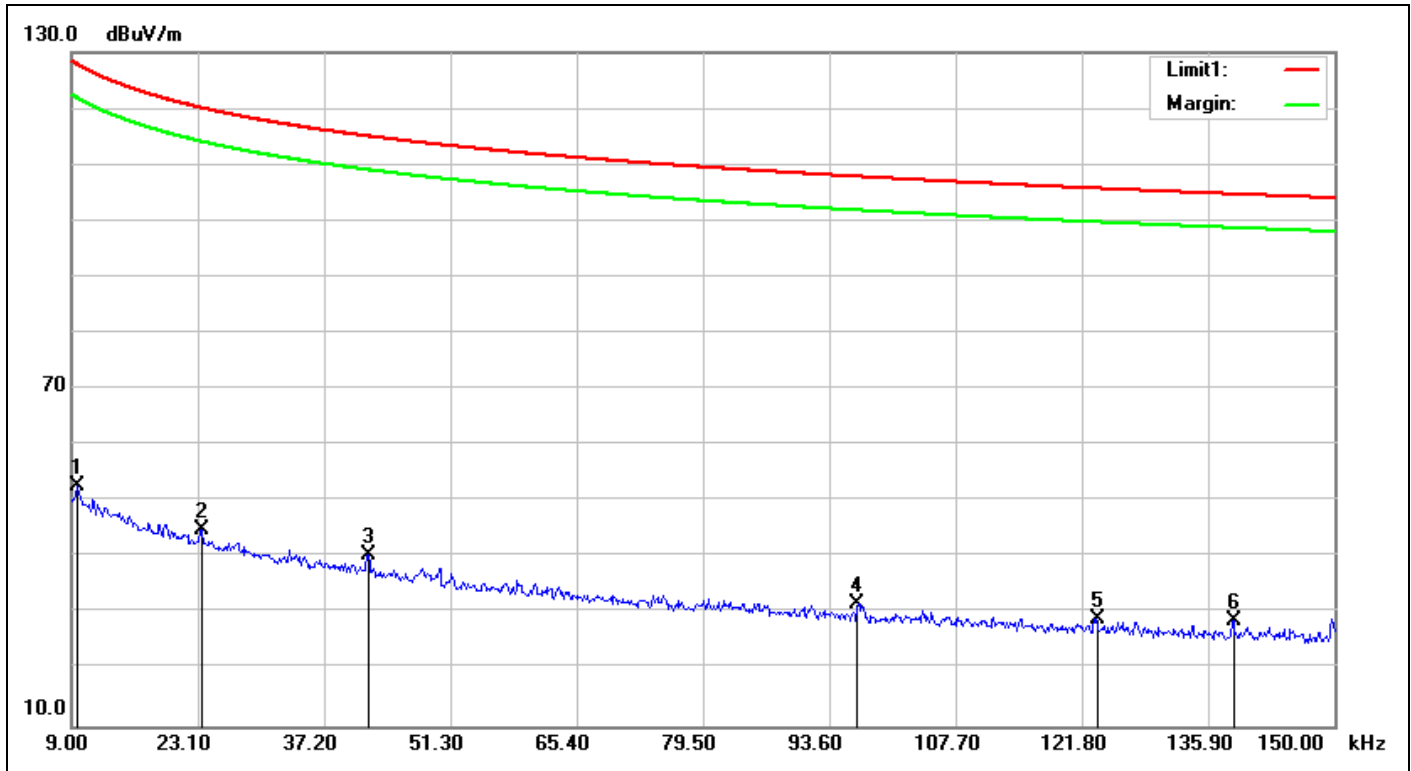
Spurious Emissions, RX Mode, 9K-150K



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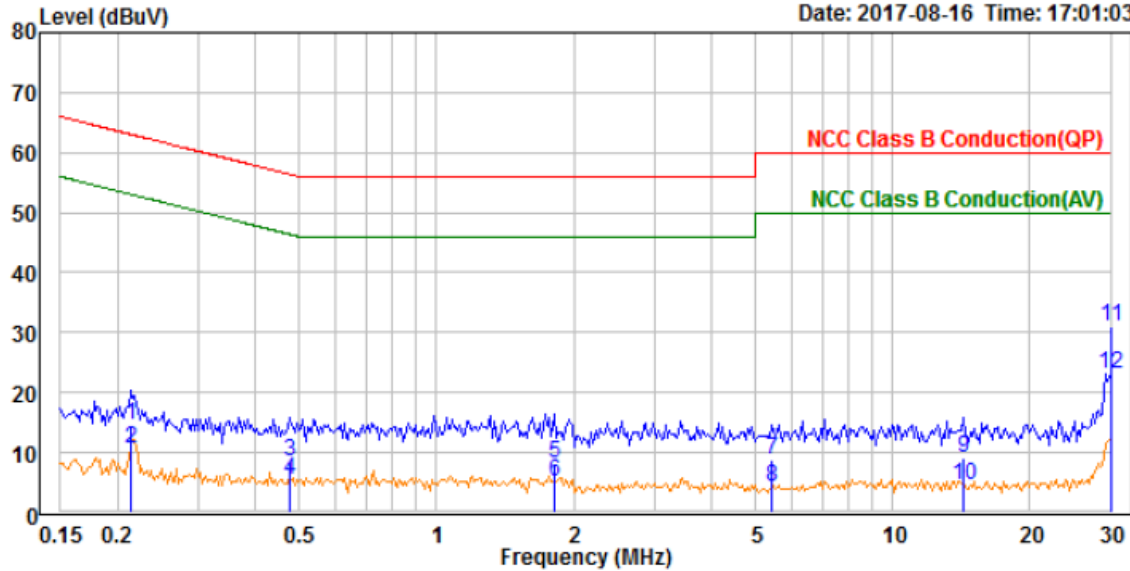
Service No.:	114066102	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/8/8 20:49:21
Applicant:	RIFO	Test Rating:	DC 3.3V
Product:	WiFi Microcontroller Module	Temp.(°C)/Hum.(%)	24.5(°C)/48%
Model No.:	TC3200-S-ANT	Test Engineer:	George Yang
Test Mode:	B-2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0096	19.78	32.95	52.73	127.84	-75.11	QP	100	275	
2	0.0235	20.07	24.98	45.05	120.09	-75.04	QP	100	359	
3	0.0421	19.71	20.78	40.49	115.05	-74.56	QP	100	187	
4	0.0967	19.15	12.49	31.64	107.85	-76.21	QP	100	76	
5	0.1234	19.11	10.03	29.14	105.74	-76.60	QP	100	4	
6	0.1387	19.09	9.70	28.79	104.72	-75.93	QP	100	235	

Mains Spurious Emissions

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Date: 2017-08-16 Time: 17:01:03



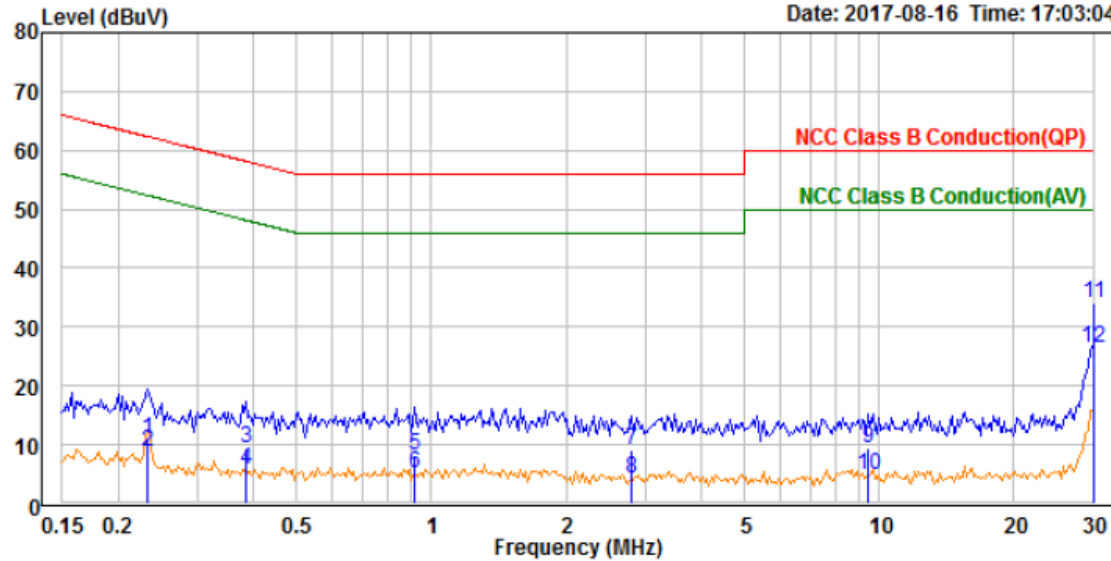
Trace: 1

Site : Conduction room
Condition : NCC Class B Conduction(QP) line1
Test Engineer: George Yang
Applicant : RIFO
Product : WiFi Microcontroller Module
Model No. : TC3200-S-ANT
Test Rating : 110Vac/60Hz
Tmp/Hum : 23.2°C / 37%
Memo : Mains

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.215	4.89	9.66	14.55	63.03	-48.48	QP
2	0.215	0.96	9.66	10.62	53.03	-42.41	Average
3	0.475	-1.17	9.66	8.49	56.42	-47.93	QP
4	0.475	-4.33	9.66	5.33	46.42	-41.09	Average
5	1.818	-1.61	9.69	8.08	56.00	-47.92	QP
6	1.818	-4.53	9.69	5.16	46.00	-40.84	Average
7	5.427	-1.03	9.74	8.71	60.00	-51.29	QP
8	5.427	-5.56	9.74	4.18	50.00	-45.82	Average
9	14.234	-0.76	9.80	9.04	60.00	-50.96	QP
10	14.234	-5.36	9.80	4.44	50.00	-45.56	Average
11	30.000	21.36	9.78	31.14	60.00	-28.86	QP
12	30.000	13.22	9.78	23.00	50.00	-27.00	Average

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Date: 2017-08-16 Time: 17:03:04



Trace: 1

Site : Conduction room
Condition : NCC Class B Conduction(QP) neutral
Test Engineer: George Yang
Applicant : RIFO
Product : WiFi Microcontroller Module
Model No. : TC3200-S-ANT
Test Rating : 110Vac/60Hz
Tmp/Hum : 23.2°C / 37%
Memo : Mains

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.232	1.18	9.67	10.85	62.37	-51.52	QP
2	0.232	-0.71	9.67	8.96	52.37	-43.41	Average
3	0.386	-0.21	9.66	9.45	58.16	-48.71	QP
4	0.386	-3.75	9.66	5.91	48.16	-42.25	Average
5	0.916	-1.61	9.68	8.07	56.00	-47.93	QP
6	0.916	-4.56	9.68	5.12	46.00	-40.88	Average
7	2.788	-0.68	9.70	9.02	56.00	-46.98	QP
8	2.788	-5.36	9.70	4.34	46.00	-41.66	Average
9	9.470	-0.40	9.81	9.41	60.00	-50.59	QP
10	9.470	-5.09	9.81	4.72	50.00	-45.28	Average
11	30.000	24.08	9.89	33.97	60.00	-26.03	QP
12	30.000	16.62	9.89	26.51	50.00	-23.49	Average