

Test Report No.50241450 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50241450 001AppendixD)

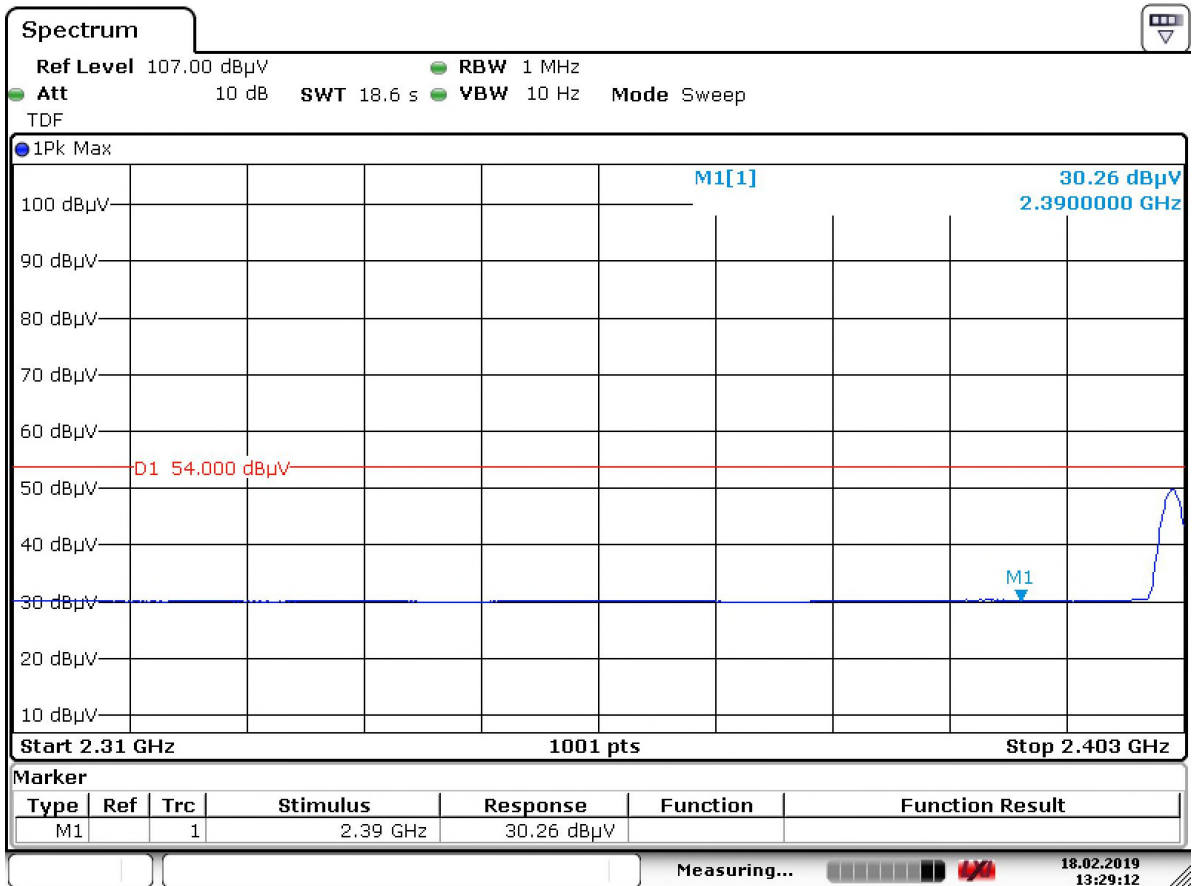
Contents

Spurious Emissions, Band Edges, 2.35-2.5G	2
Spurious Emissions, TX Mode, 1-18G.....	10
Spurious Emissions, TX Mode, 18-26.5G.....	22
Spurious Emissions, TX Mode, 30M-1G	34
Spurious Emissions, TX Mode, 9K-30M	36
Spurious Emissions, AC Mains	38

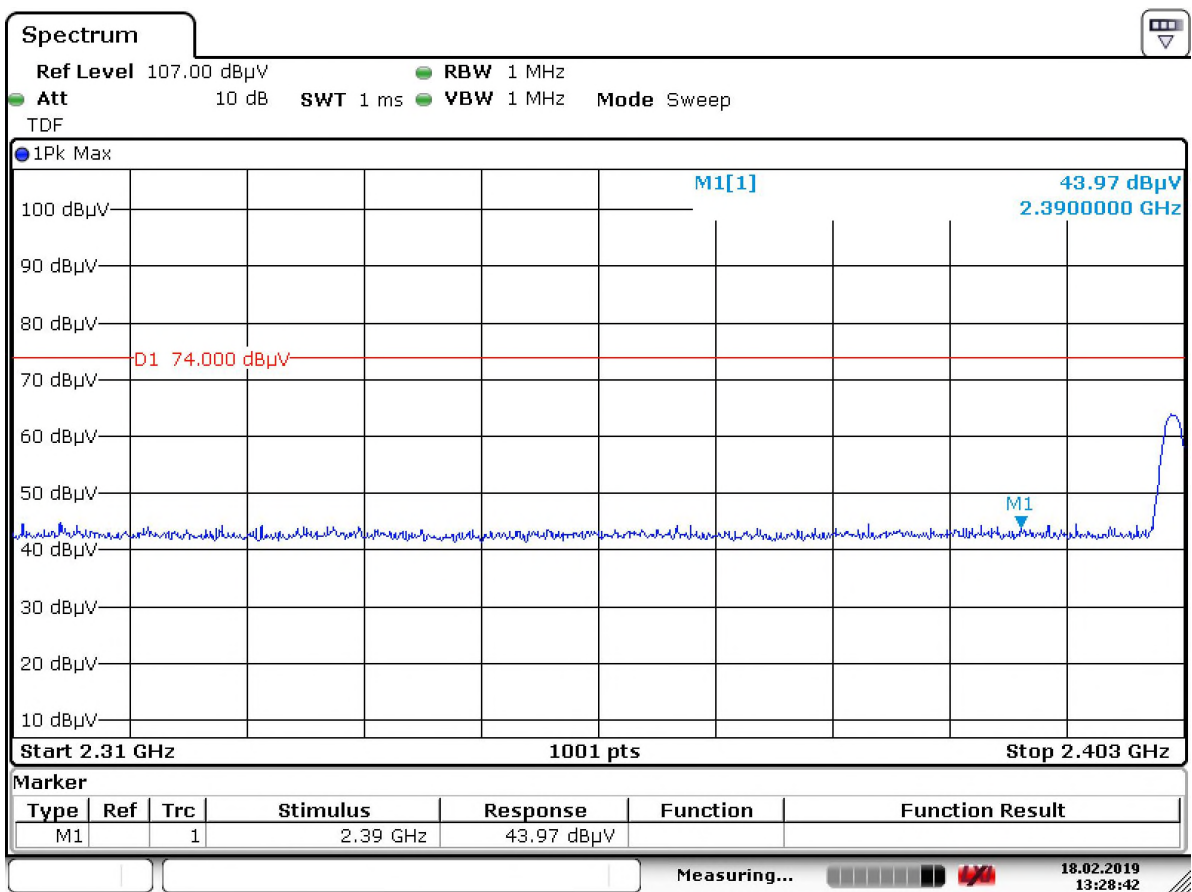
Spurious Emissions, Band Edges, 2.35-2.5G

1DH5

Low Channel (Horizontal)

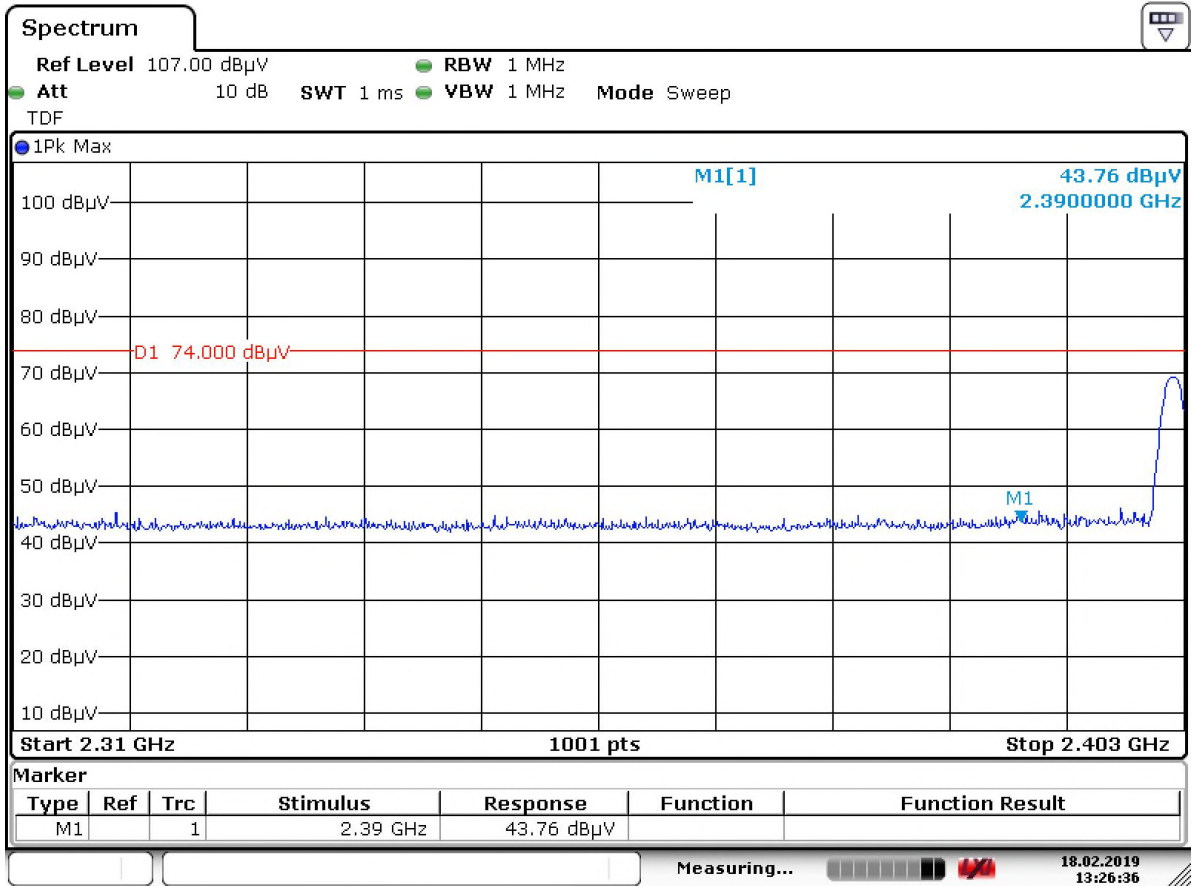


Date: 18.FEB.2019 13:29:12

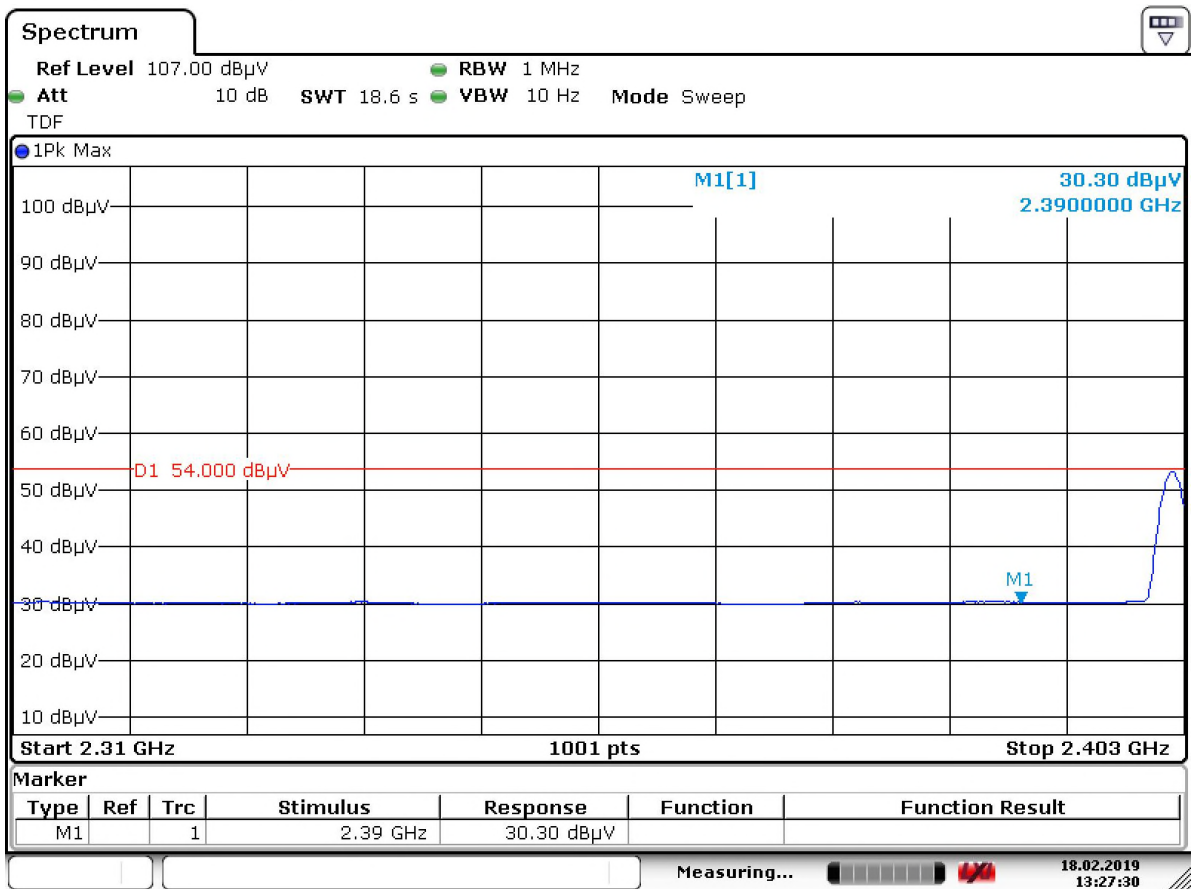


Date: 18.FEB.2019 13:28:42

Low Channel (Vertical)

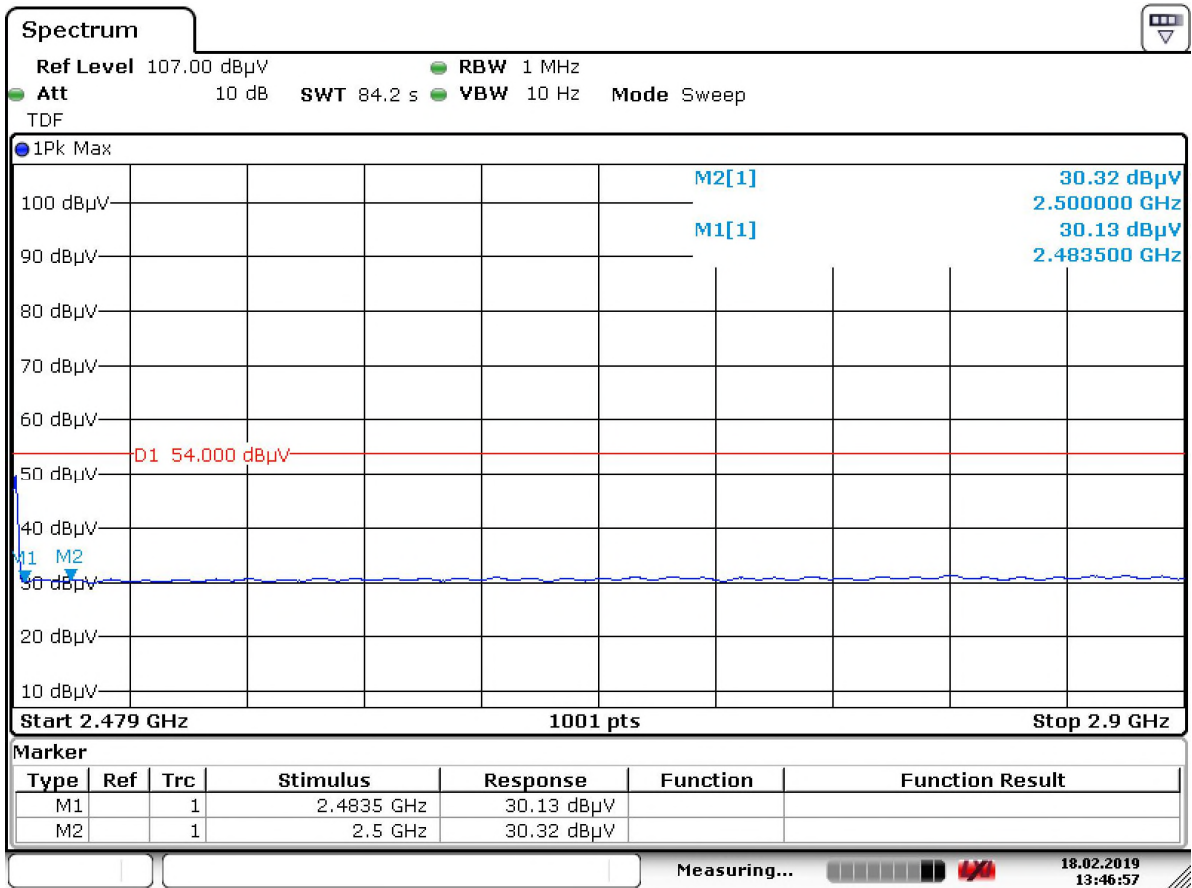


Date: 18.FEB.2019 13:26:36

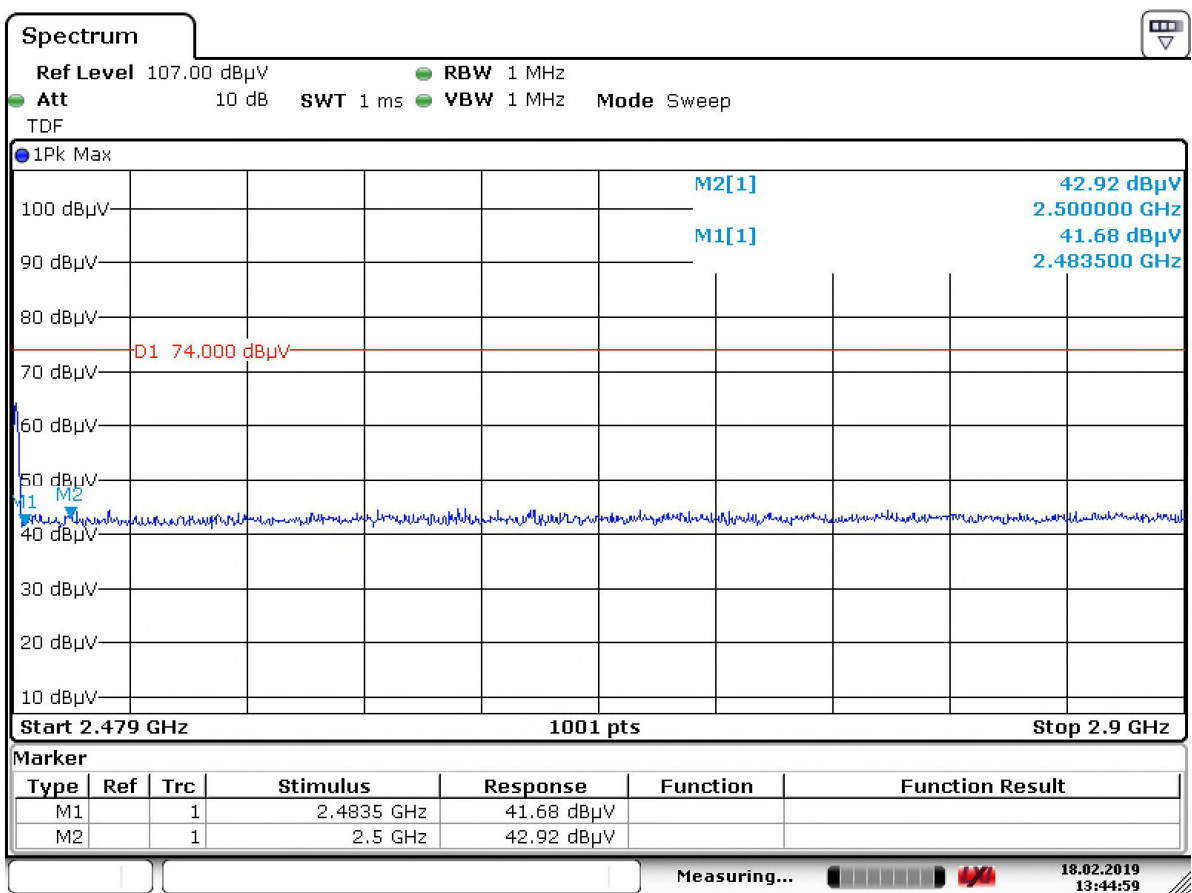


Date: 18.FEB.2019 13:27:30

High Channel (Horizontal)

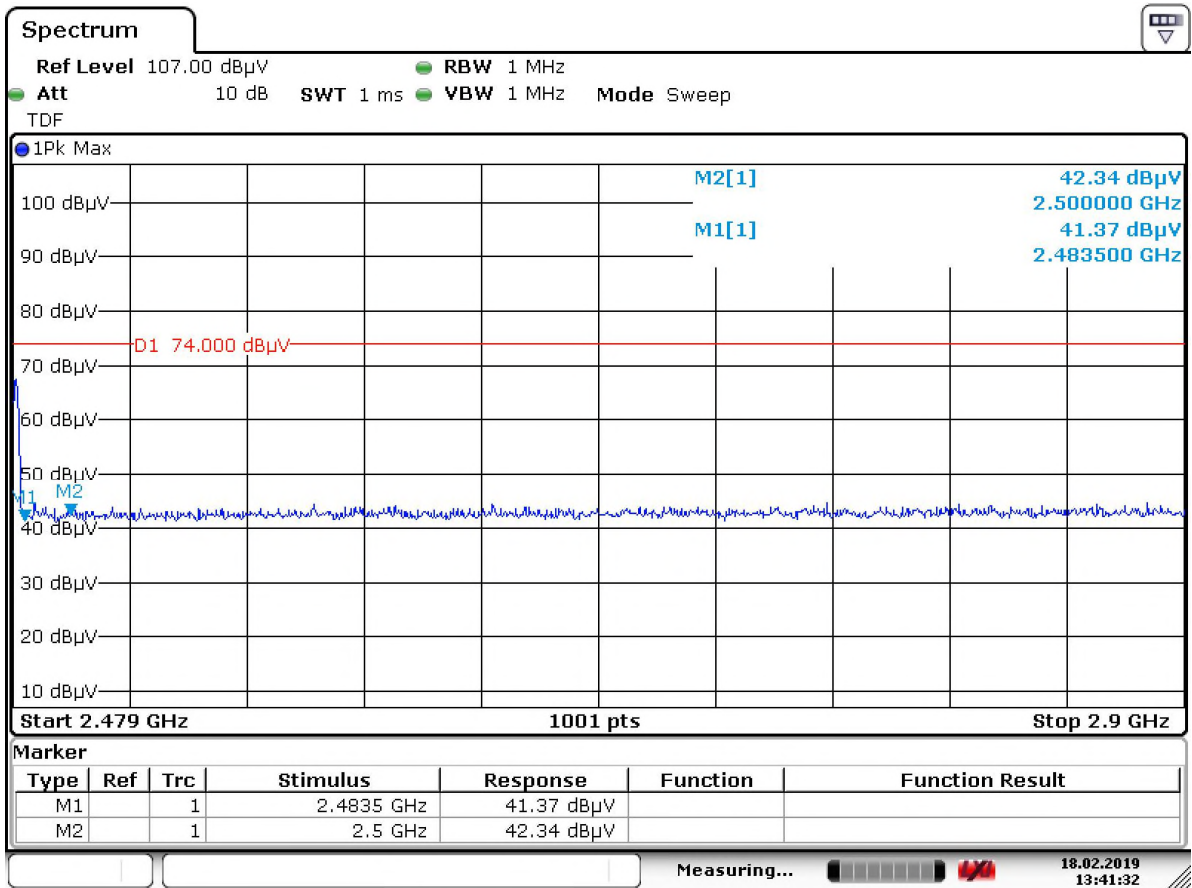


Date: 18.FEB.2019 13:46:57

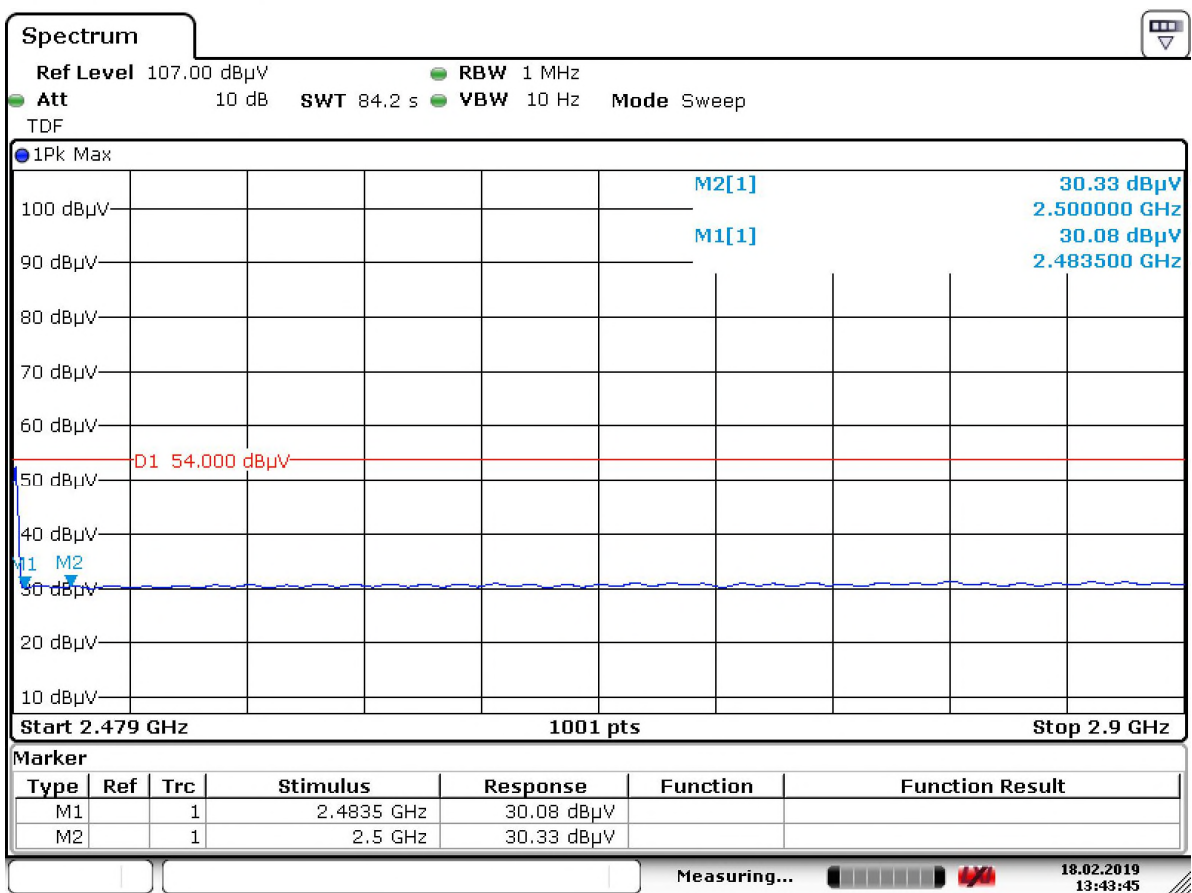


Date: 18.FEB.2019 13:44:59

High Channel (Vertical)

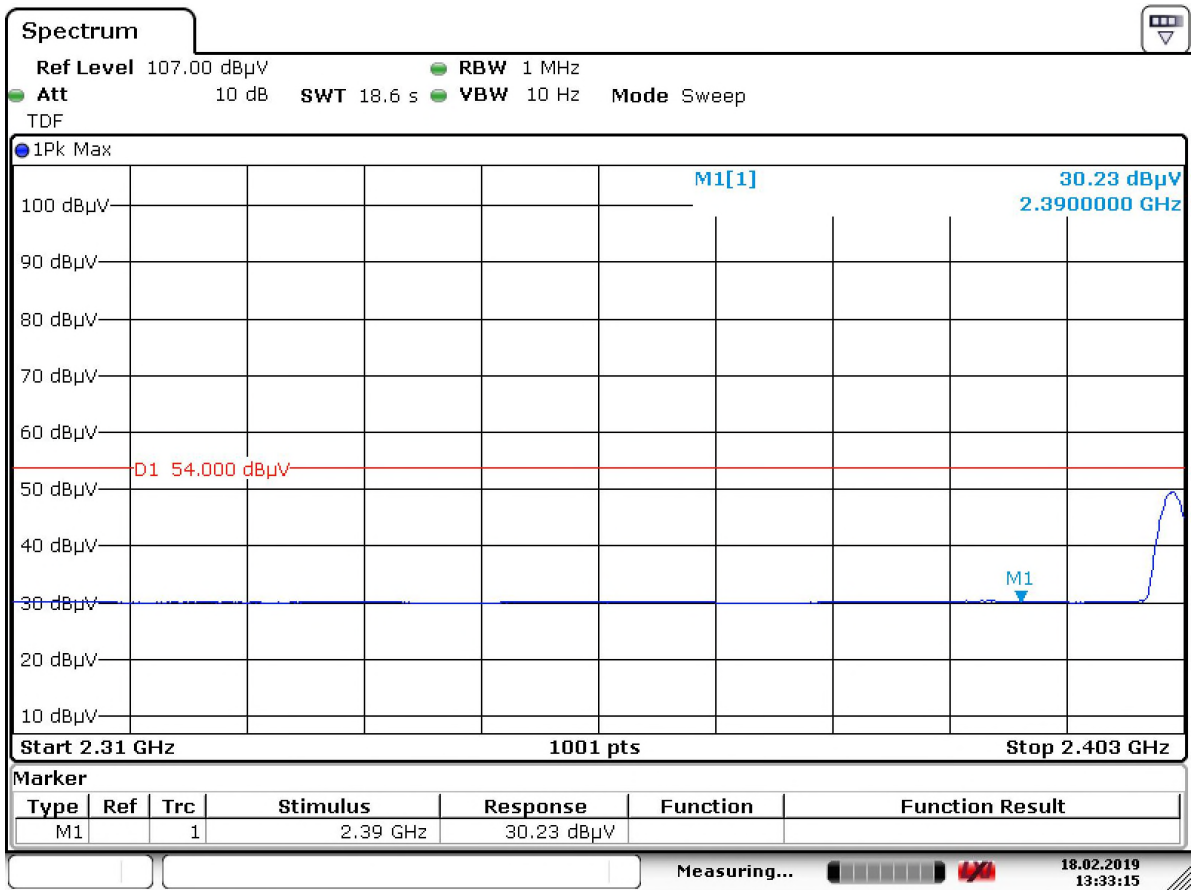


Date: 18.FEB.2019 13:41:32

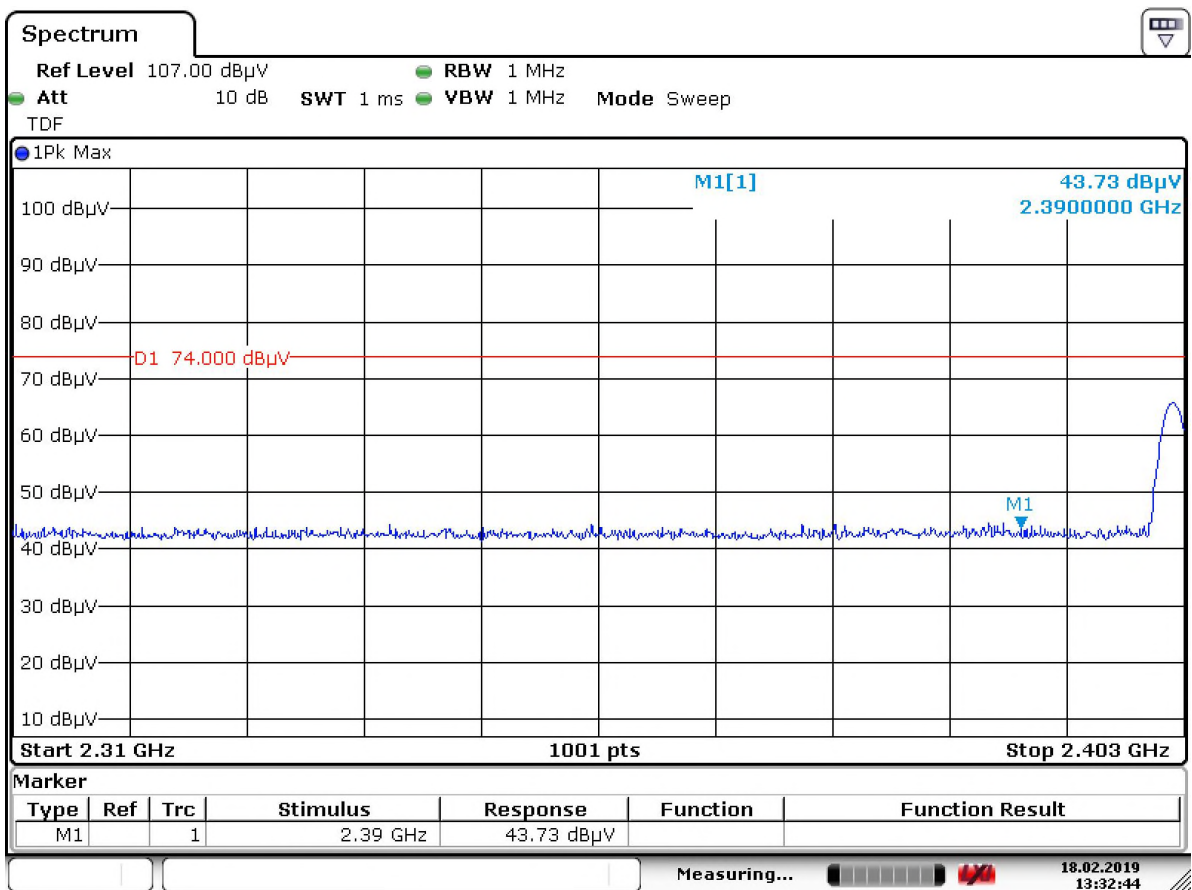


Date: 18.FEB.2019 13:43:45

Low Channel (Horizontal)

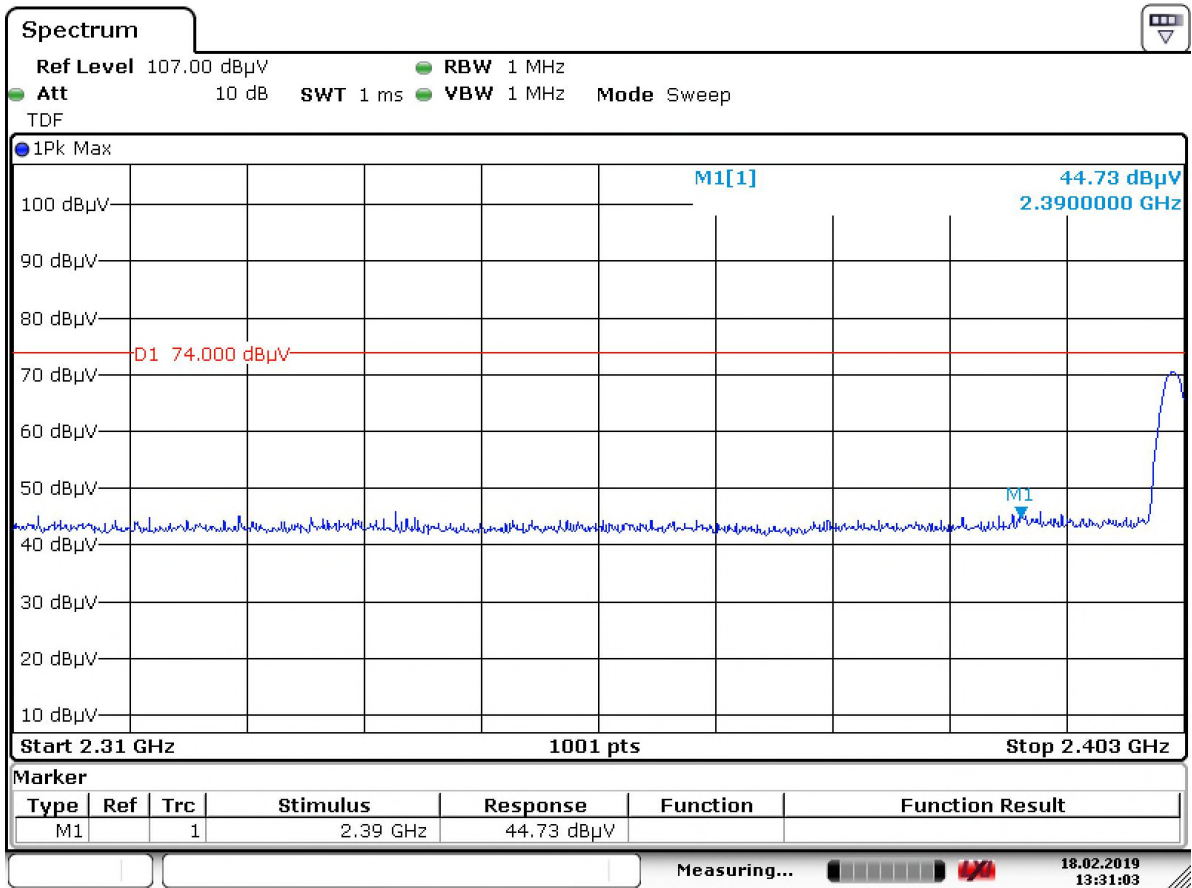


Date: 18.FEB.2019 13:33:15

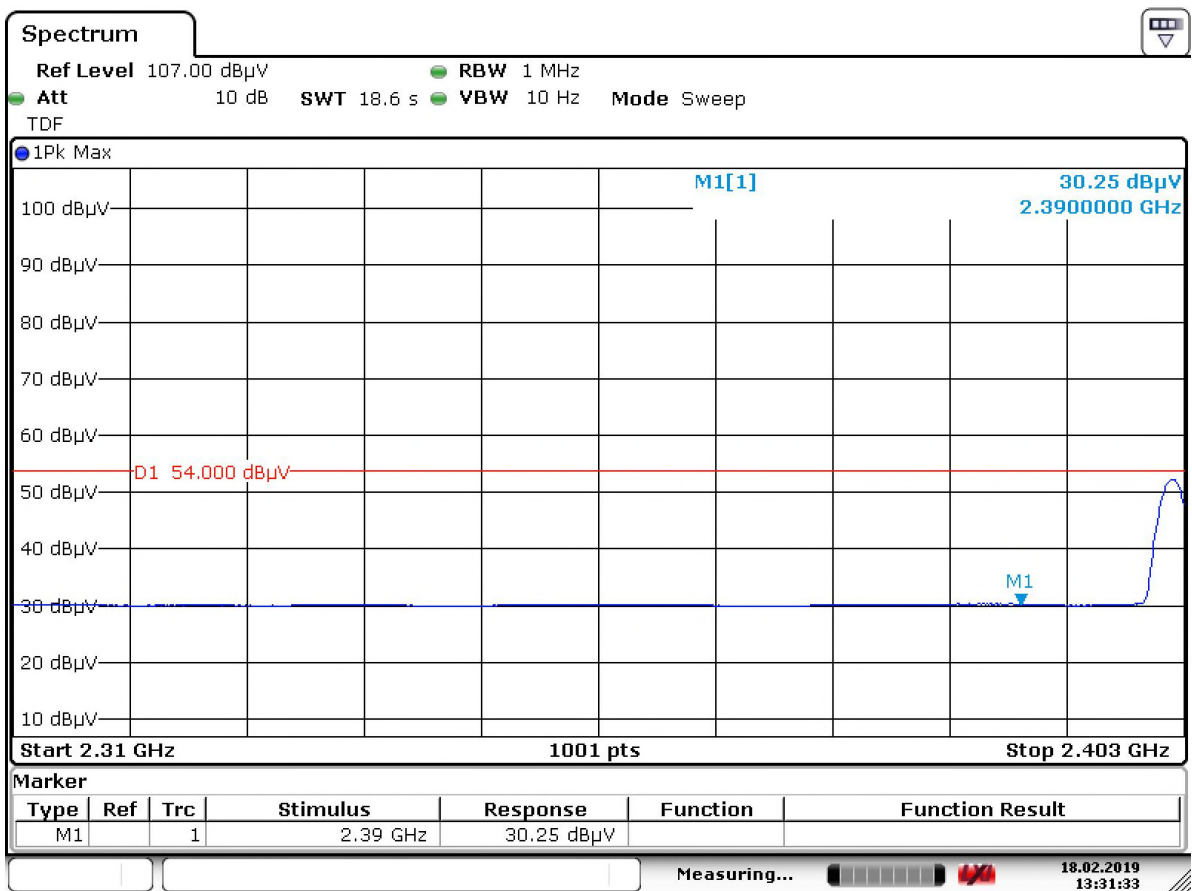


Date: 18.FEB.2019 13:32:45

Low Channel (Vertical)

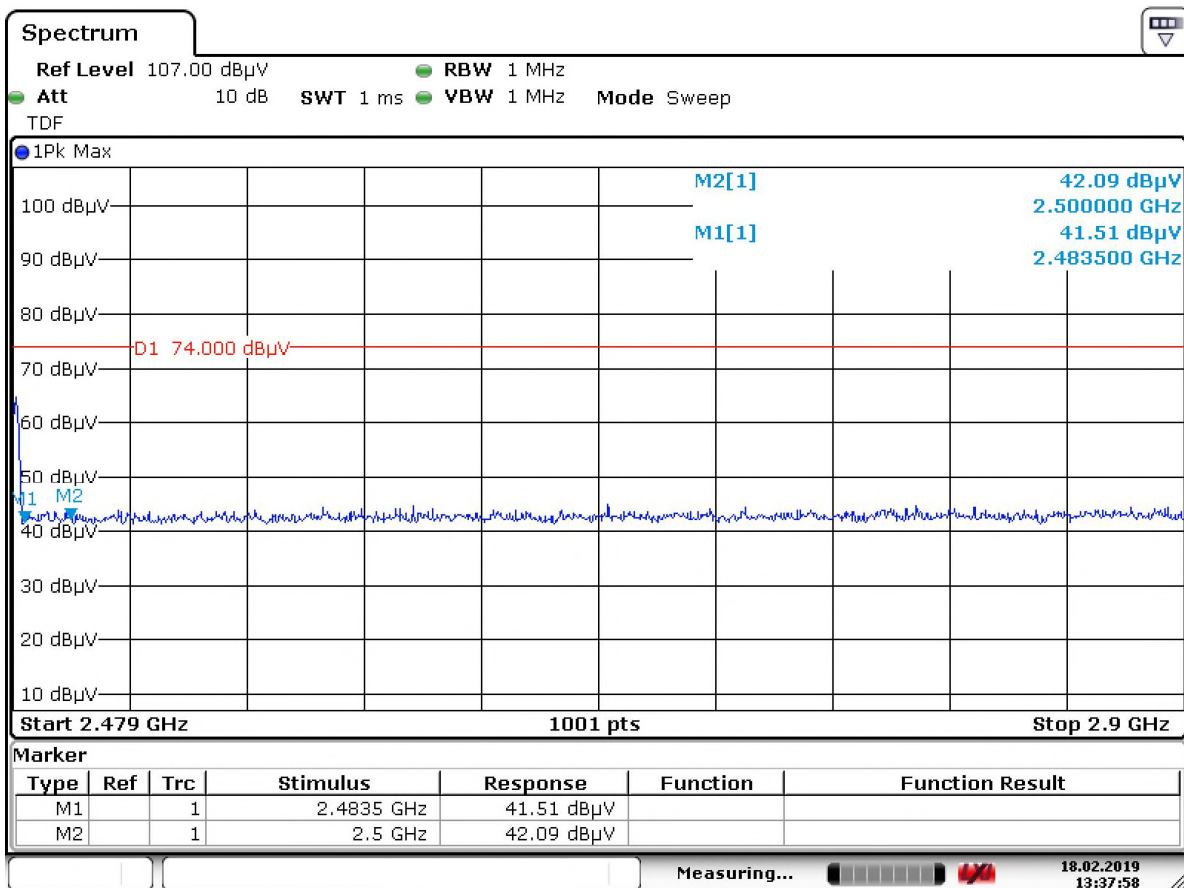


Date: 18.FEB.2019 13:31:03

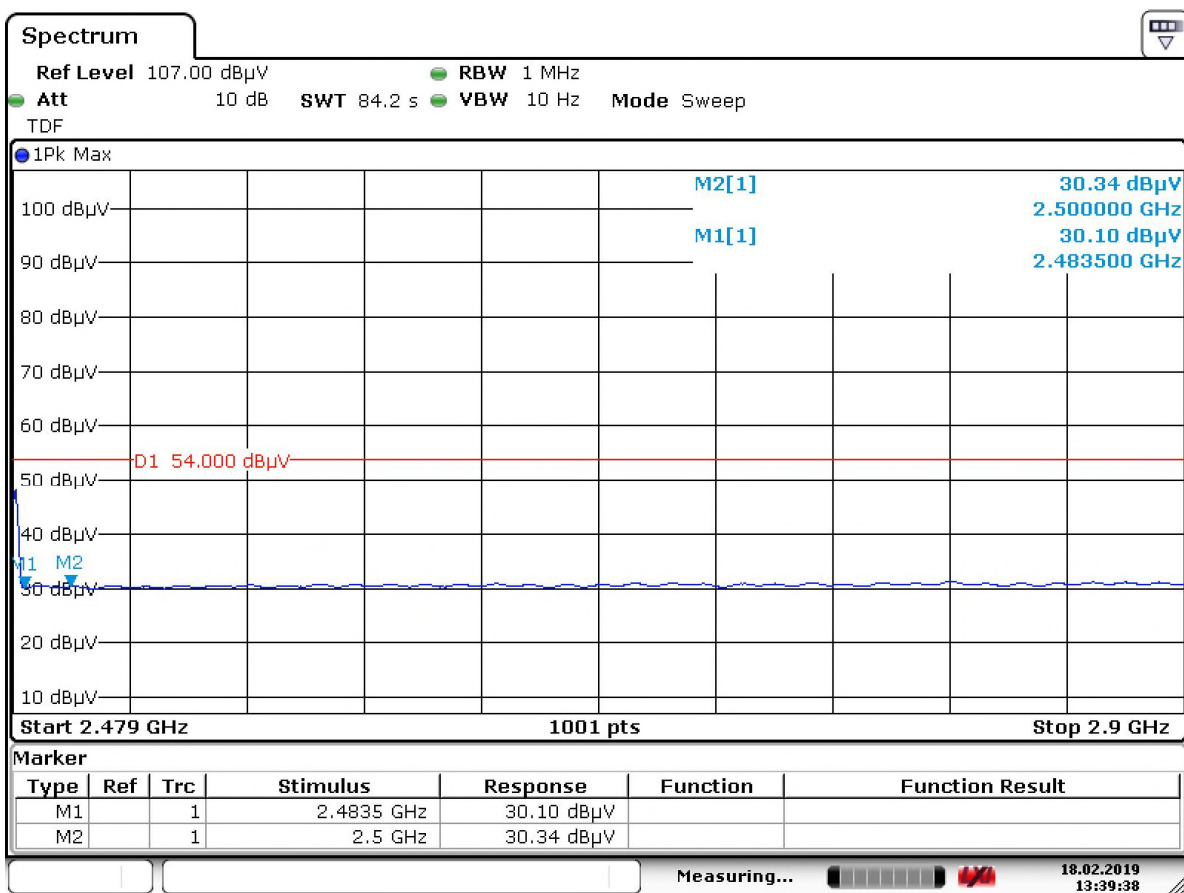


Date: 18.FEB.2019 13:31:34

High Channel (Horizontal)

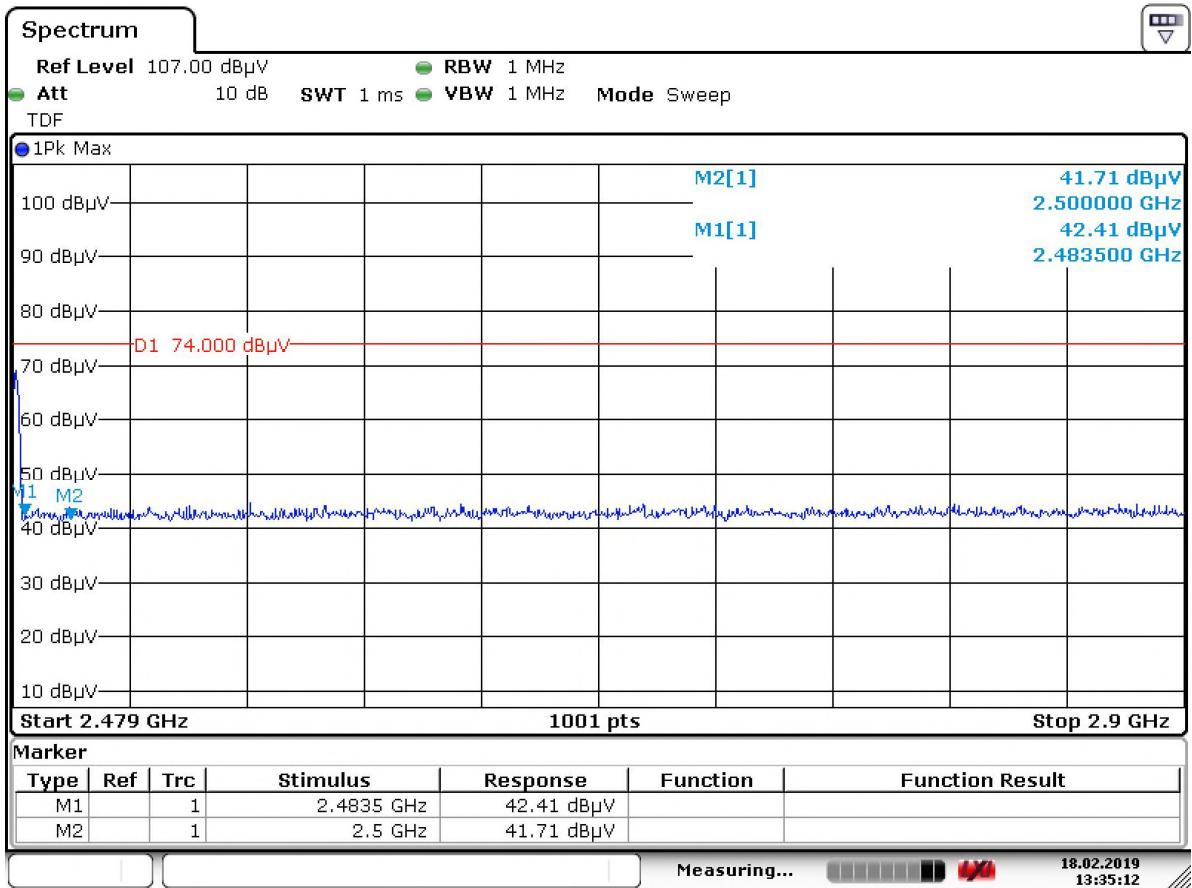


Date: 18.FEB.2019 13:37:59

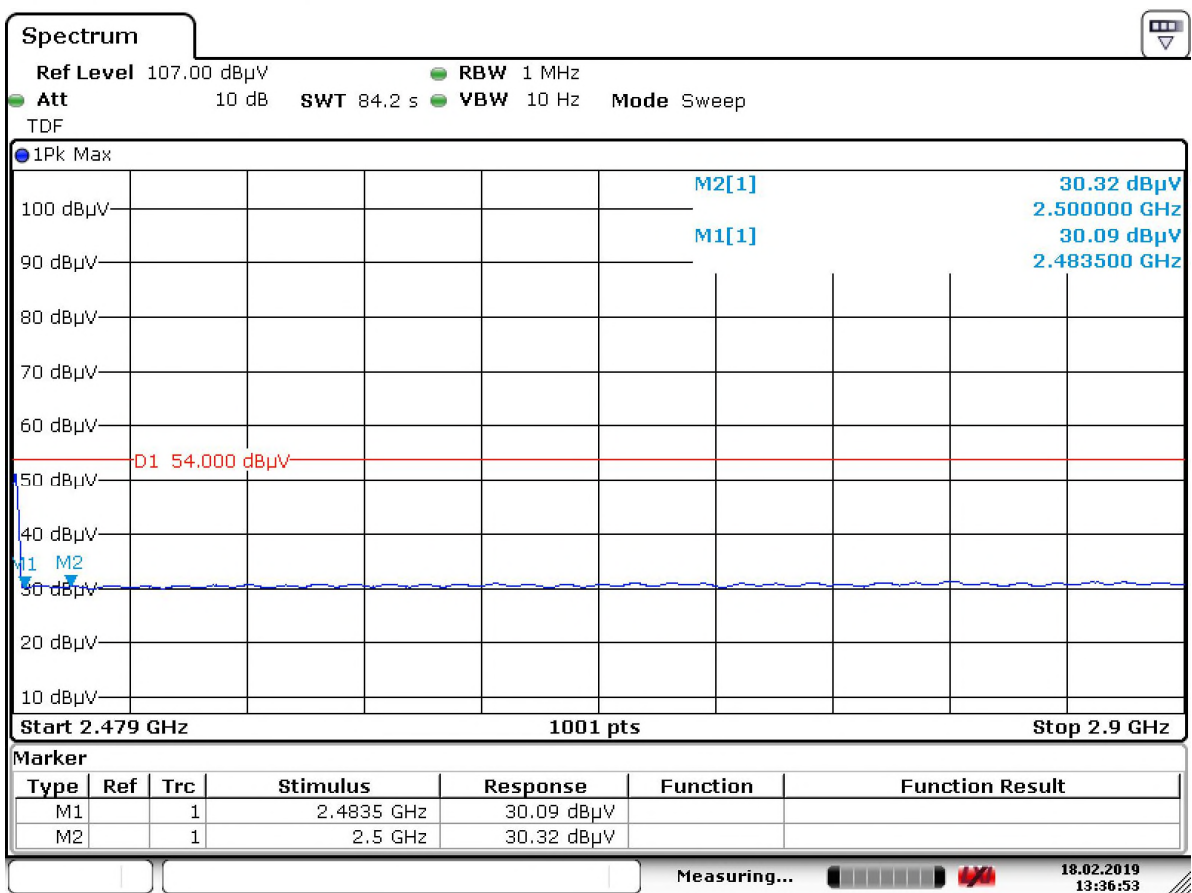


Date: 18.FEB.2019 13:39:38

High Channel (Vertical)



Date: 18.FEB.2019 13:35:12



Date: 18.FEB.2019 13:36:53

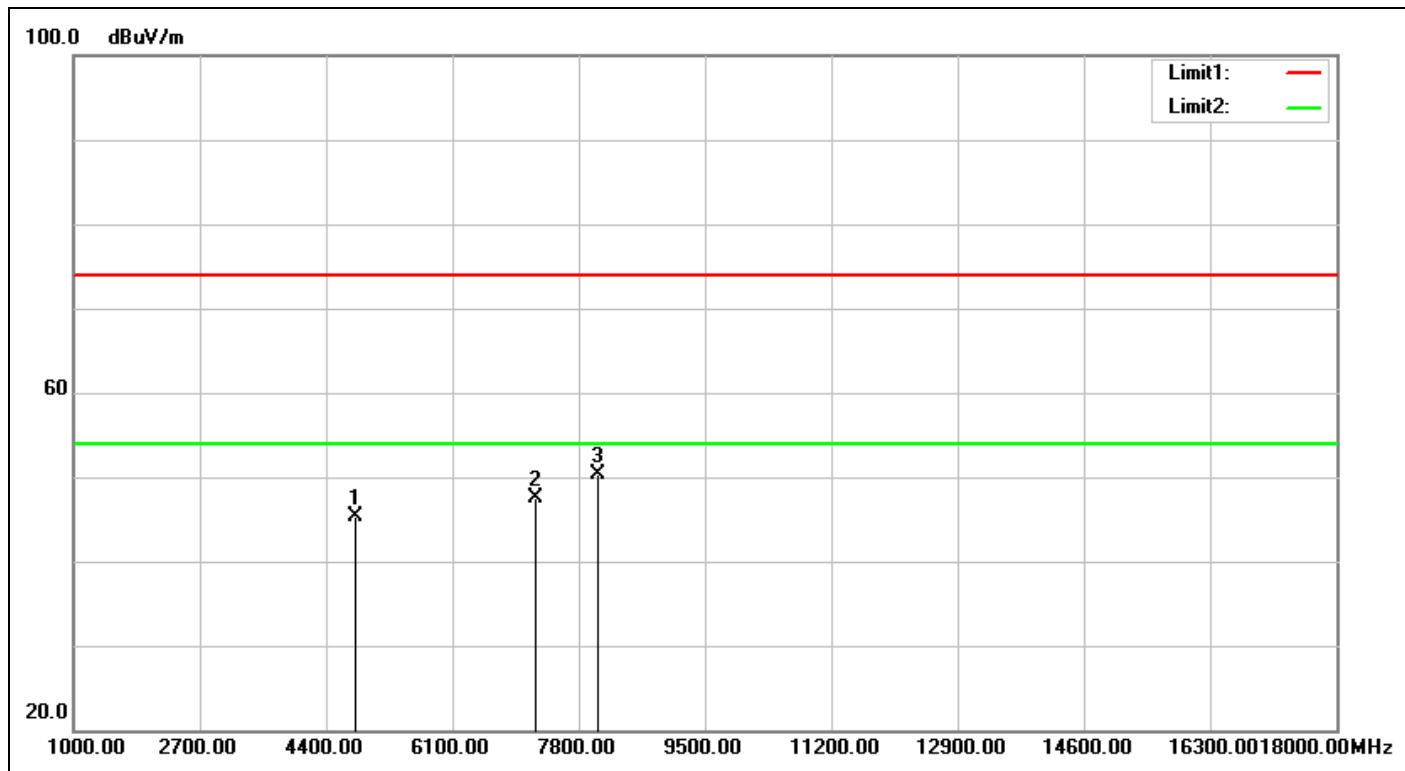
Spurious Emissions, TX Mode, 1-18G



TUV Rheinland Taiwan Ltd.

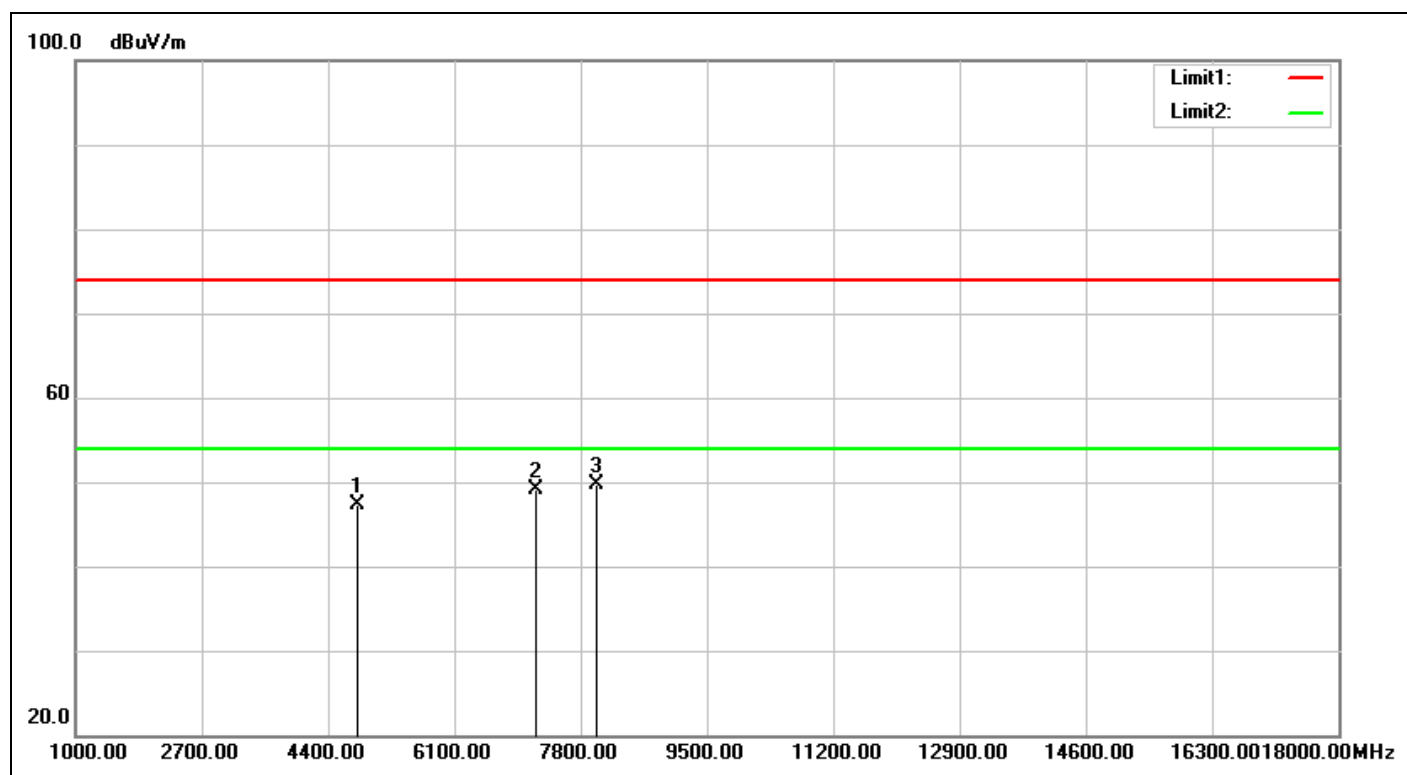
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



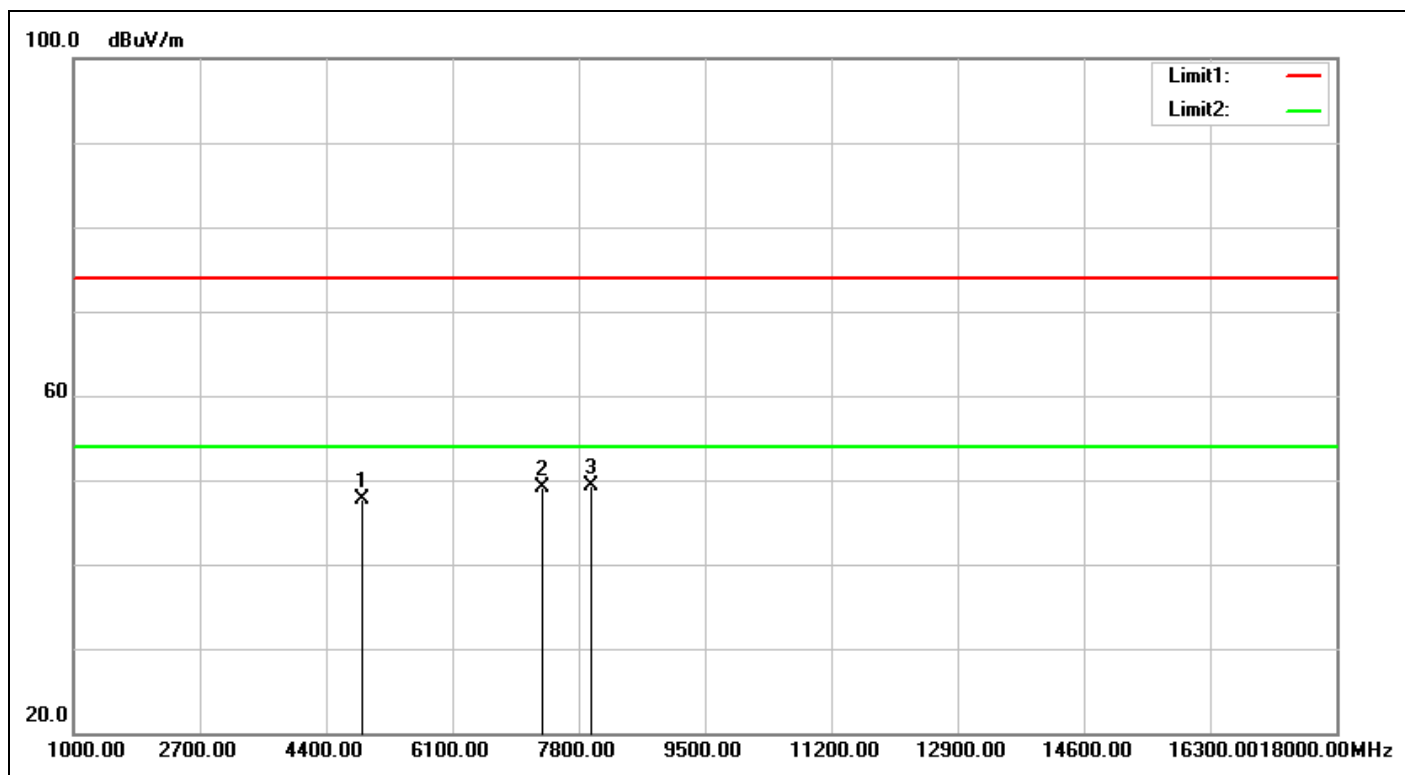
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 13:36:51
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2402-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.64	48.02	45.38	74.00	-28.62	peak	100	162	
2	7206.000	5.26	42.19	47.45	74.00	-26.55	peak	100	203	
3	8055.000	5.81	44.57	50.38	74.00	-23.62	peak	100	347	



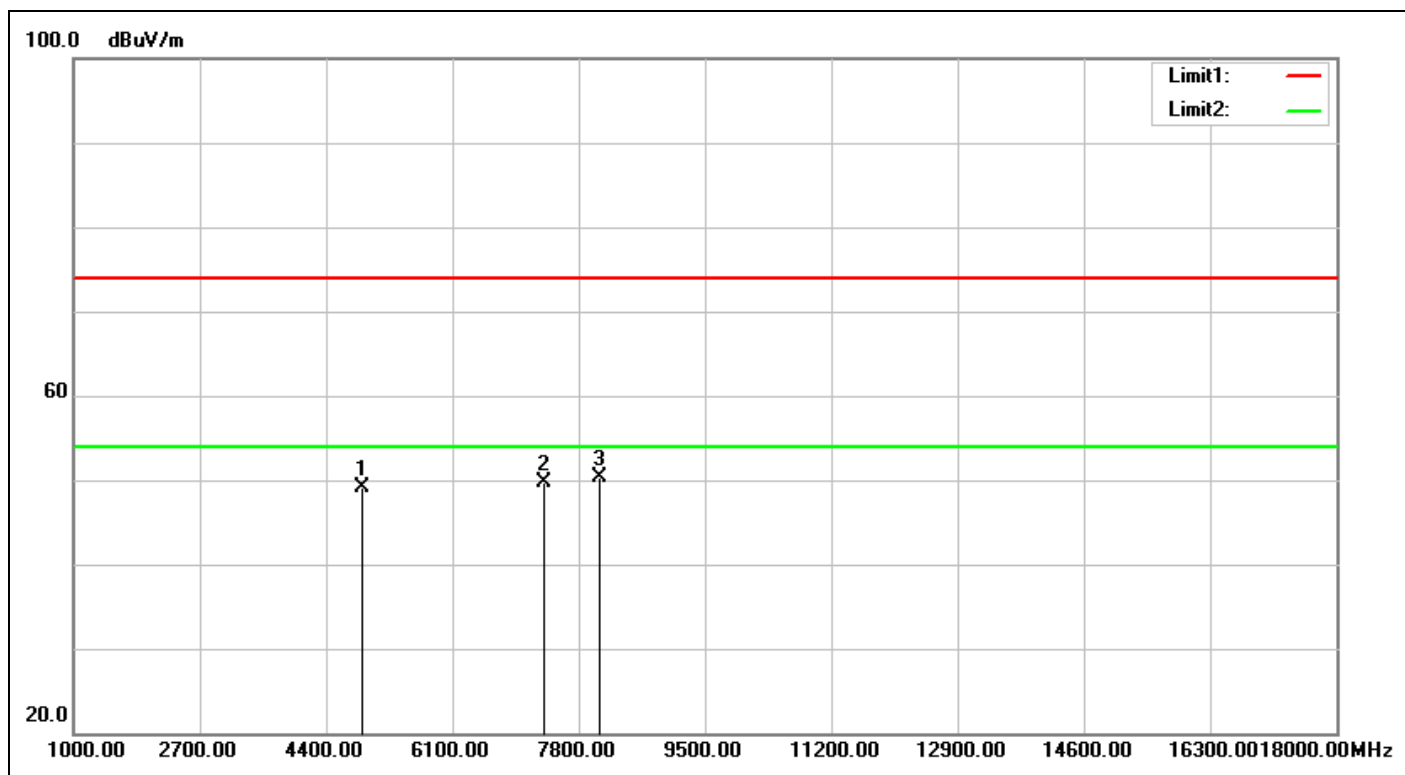
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 13:37:43
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2402-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.64	50.00	47.36	74.00	-26.64	peak	100	304	
2	7206.000	5.26	43.85	49.11	74.00	-24.89	peak	100	1	
3	8021.000	5.75	44.01	49.76	74.00	-24.24	peak	100	246	



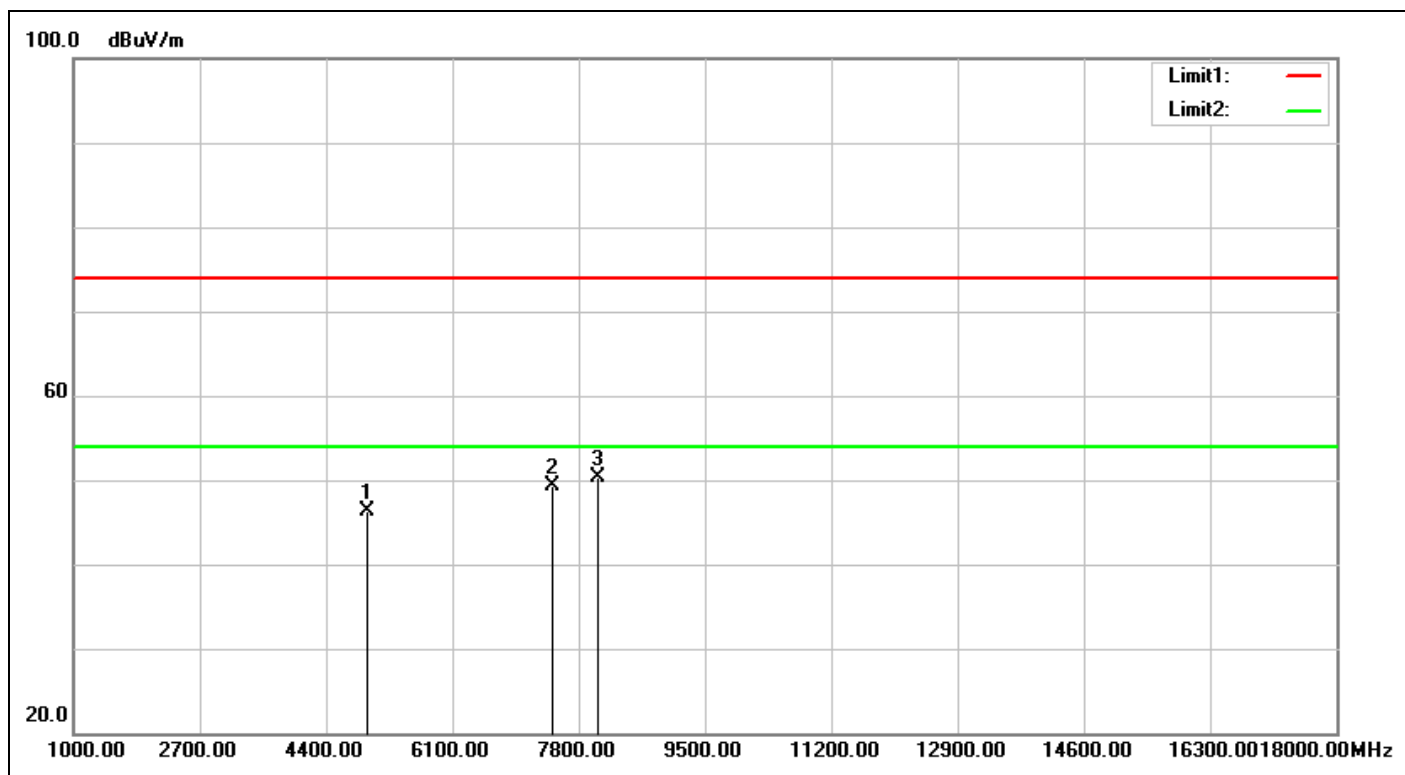
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 13:39:55
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2441-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.45	50.23	47.78	74.00	-26.22	peak	100	326	
2	7323.000	5.54	43.58	49.12	74.00	-24.88	peak	100	18	
3	7970.000	5.74	43.56	49.30	74.00	-24.70	peak	100	42	



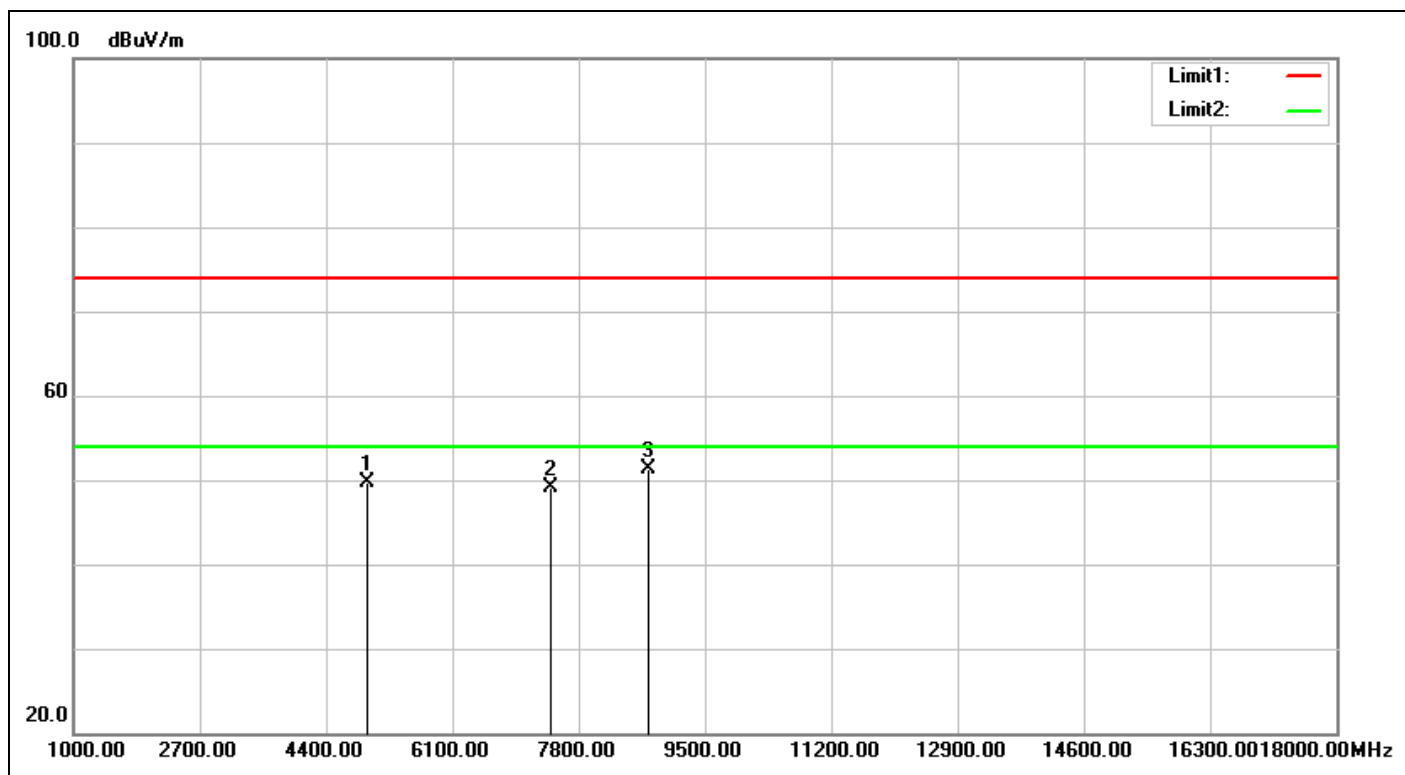
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 13:40:47
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2441-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.45	51.46	49.01	74.00	-24.99	peak	100	17	
2	7323.000	5.54	44.23	49.77	74.00	-24.23	peak	100	127	
3	8072.000	5.84	44.56	50.40	74.00	-23.60	peak	100	353	



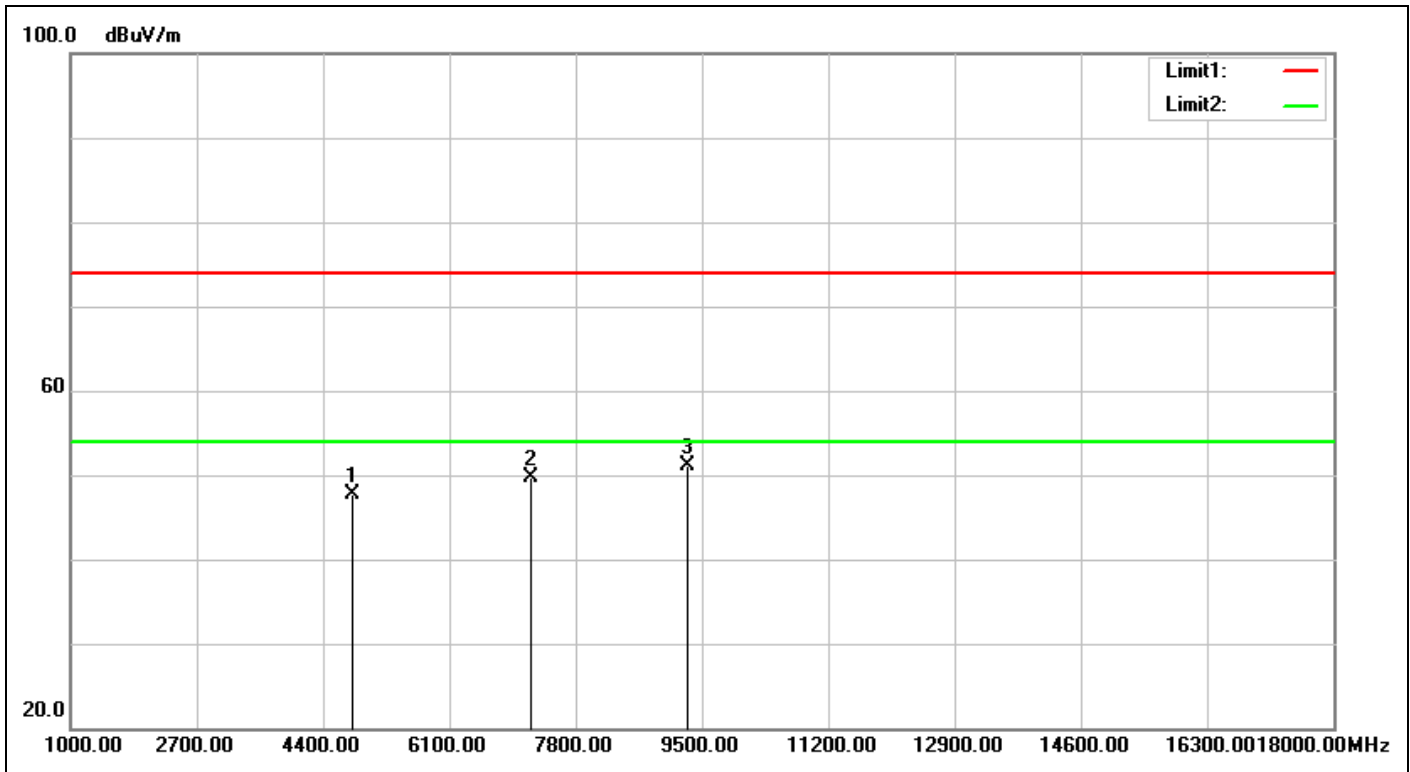
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 13:42:48
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2480-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-2.25	48.59	46.34	74.00	-27.66	peak	100	278	
2	7440.000	5.83	43.45	49.28	74.00	-24.72	peak	100	254	
3	8055.000	5.81	44.47	50.28	74.00	-23.72	peak	100	323	



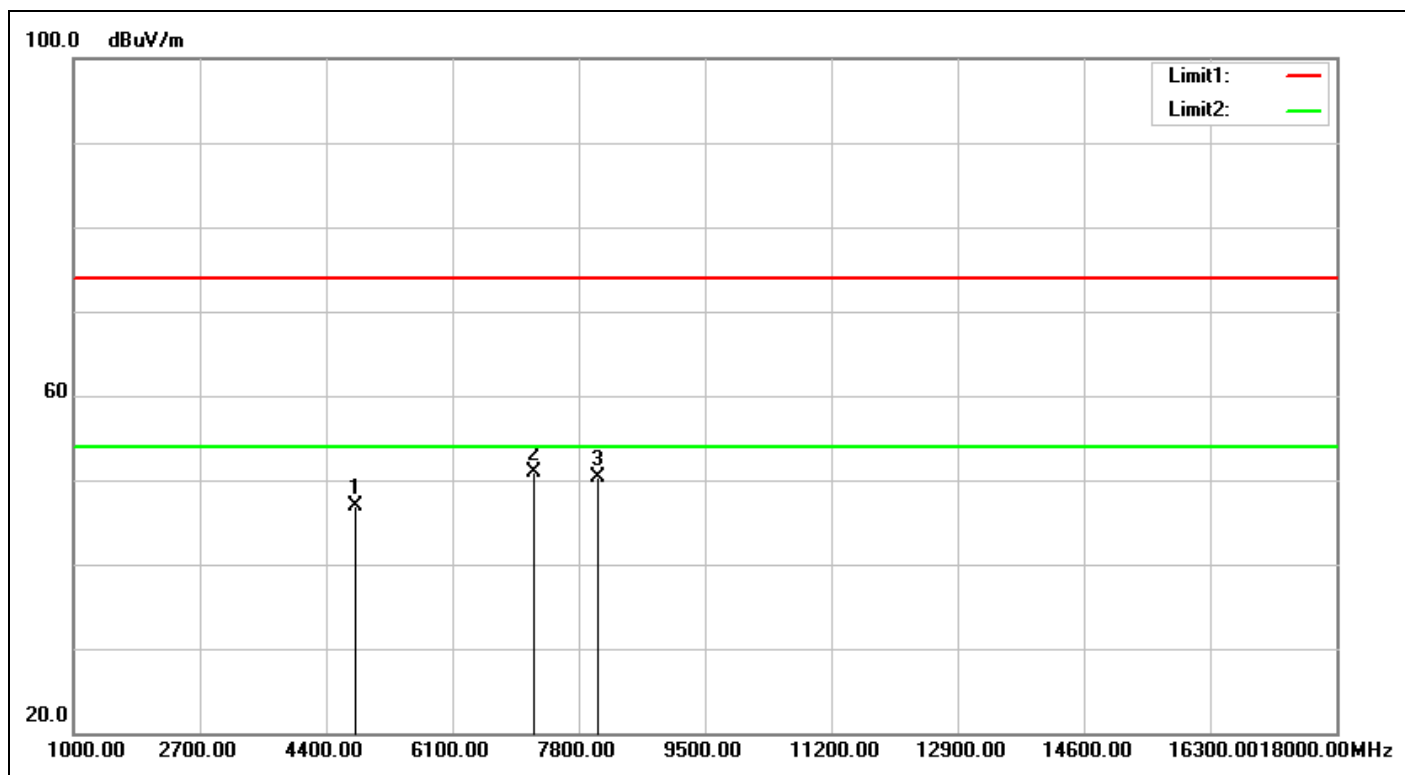
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 13:43:40
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2480-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-2.25	51.98	49.73	74.00	-24.27	peak	100	332	
2	7440.000	5.83	43.19	49.02	74.00	-24.98	peak	100	325	
3	8735.000	6.61	44.70	51.31	74.00	-22.69	peak	100	99	



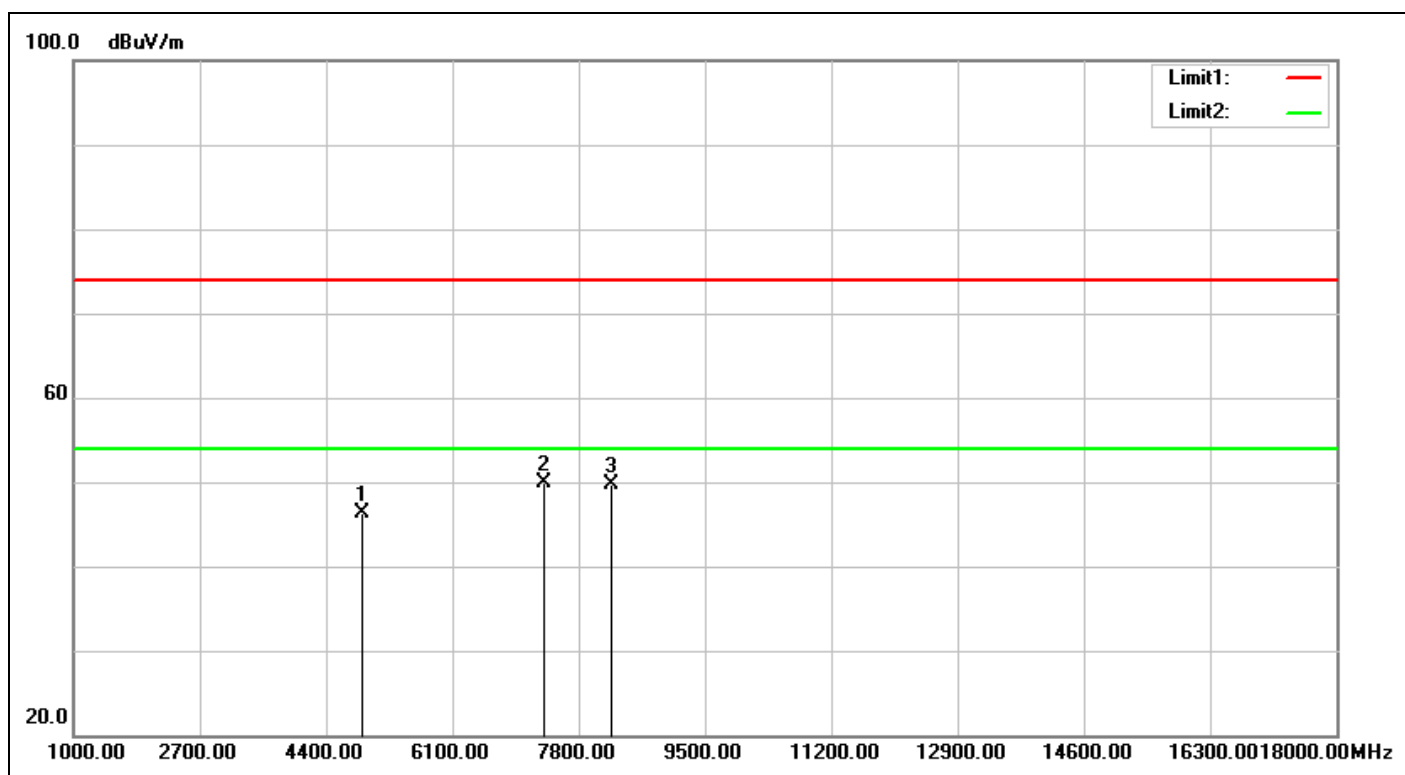
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 13:45:48
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	3DH5-TX-2402-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.64	50.42	47.78	74.00	-26.22	peak	100	196	
2	7206.000	5.26	44.54	49.80	74.00	-24.20	peak	100	182	
3	9313.000	6.48	44.61	51.09	74.00	-22.91	peak	100	151	



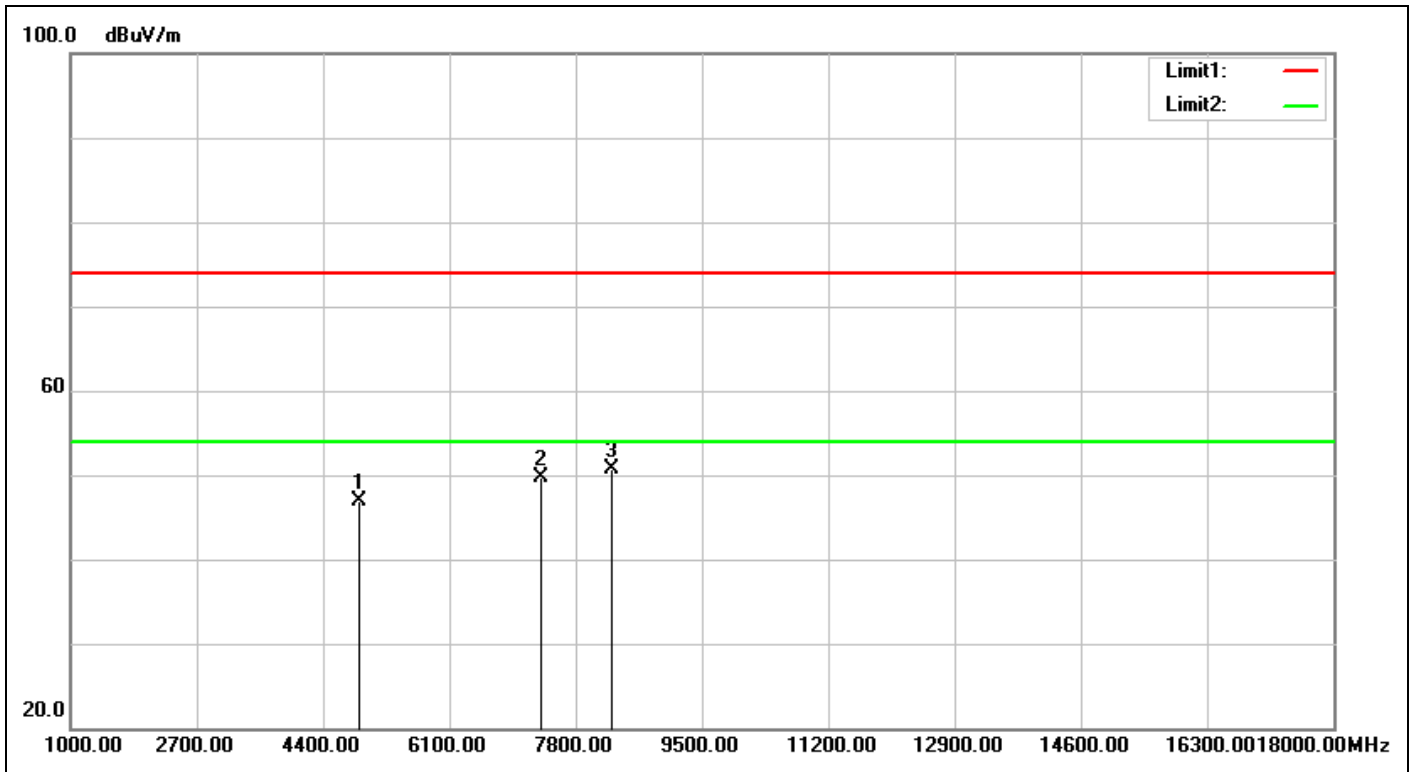
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 13:46:40
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	3DH5-TX-2402-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.64	49.53	46.89	74.00	-27.11	peak	100	205	
2	7206.000	5.26	45.69	50.95	74.00	-23.05	peak	100	86	
3	8055.000	5.81	44.57	50.38	74.00	-23.62	peak	100	243	



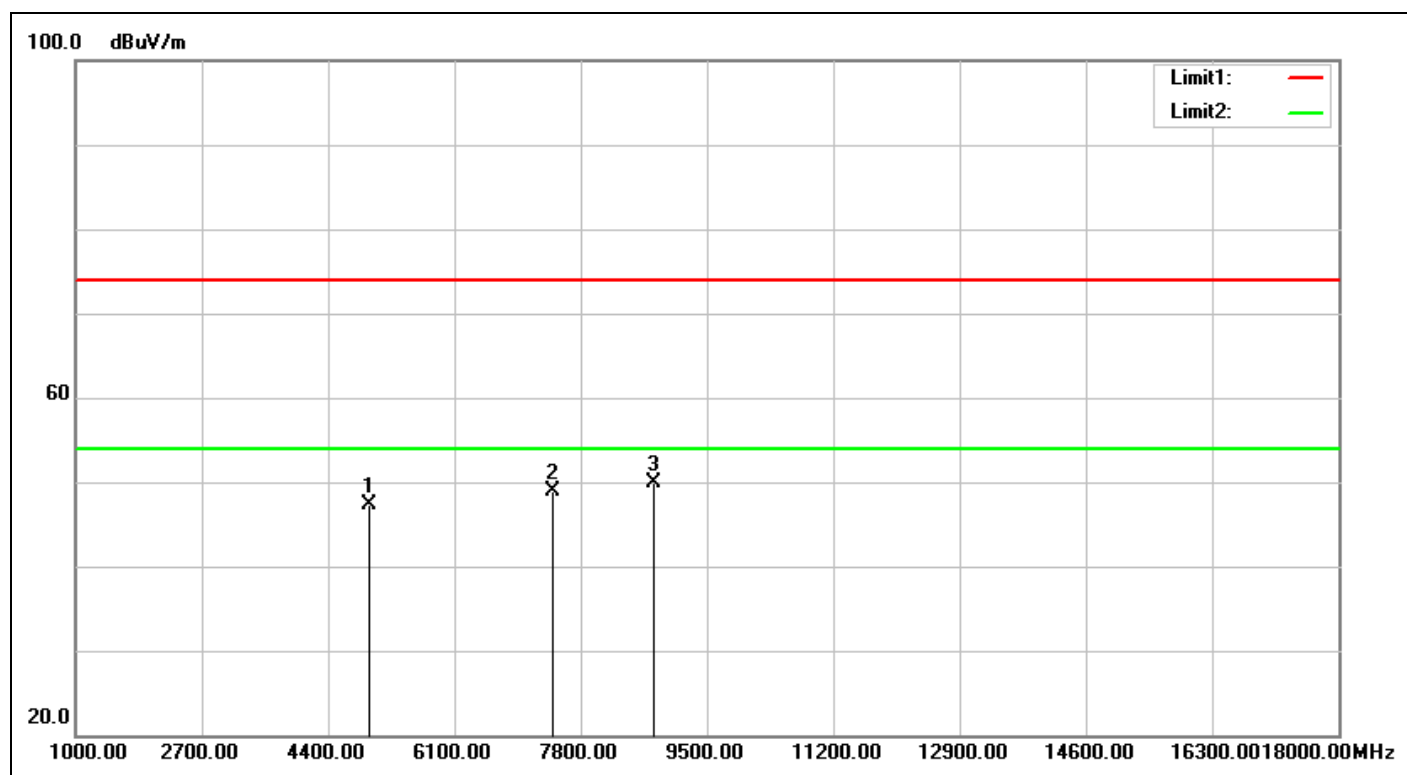
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 13:48:05
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	3DH5-TX-2441-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.45	48.82	46.37	74.00	-27.63	peak	100	319	
2	7323.000	5.54	44.27	49.81	74.00	-24.19	peak	100	97	
3	8242.000	6.16	43.57	49.73	74.00	-24.27	peak	100	4	



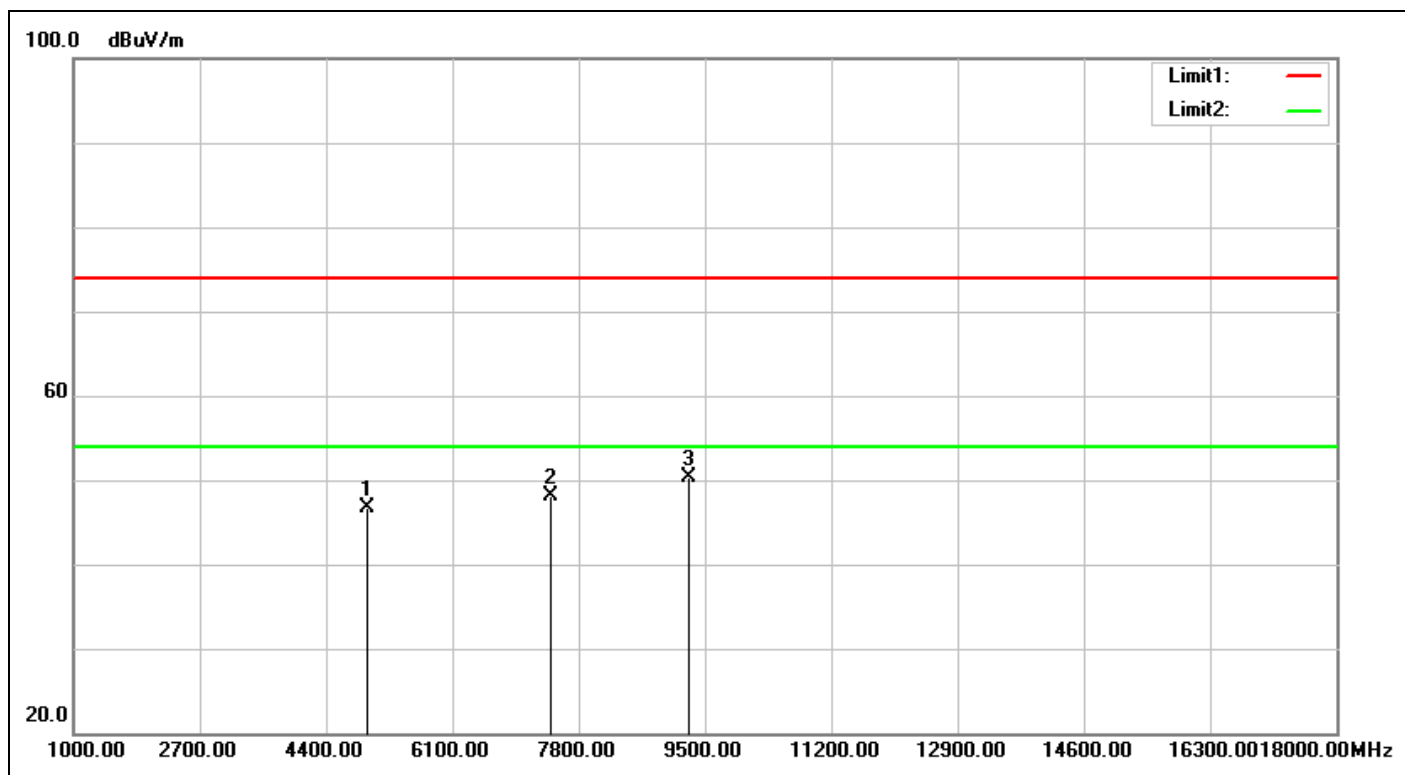
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 13:48:57
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	3DH5-TX-2441-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.45	49.33	46.88	74.00	-27.12	peak	100	116	
2	7323.000	5.54	44.07	49.61	74.00	-24.39	peak	100	219	
3	8276.000	6.21	44.54	50.75	74.00	-23.25	peak	100	212	



Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 13:51:13
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	3DH5-TX-2480-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-2.25	49.52	47.27	74.00	-26.73	peak	100	124	
2	7440.000	5.83	43.03	48.86	74.00	-25.14	peak	100	282	
3	8786.000	6.61	43.23	49.84	74.00	-24.16	peak	100	254	



Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 13:52:06
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	3DH5-TX-2480-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-2.25	49.05	46.80	74.00	-27.20	peak	100	4	
2	7440.000	5.83	42.20	48.03	74.00	-25.97	peak	100	1	
3	9279.000	6.48	43.79	50.27	74.00	-23.73	peak	100	0	

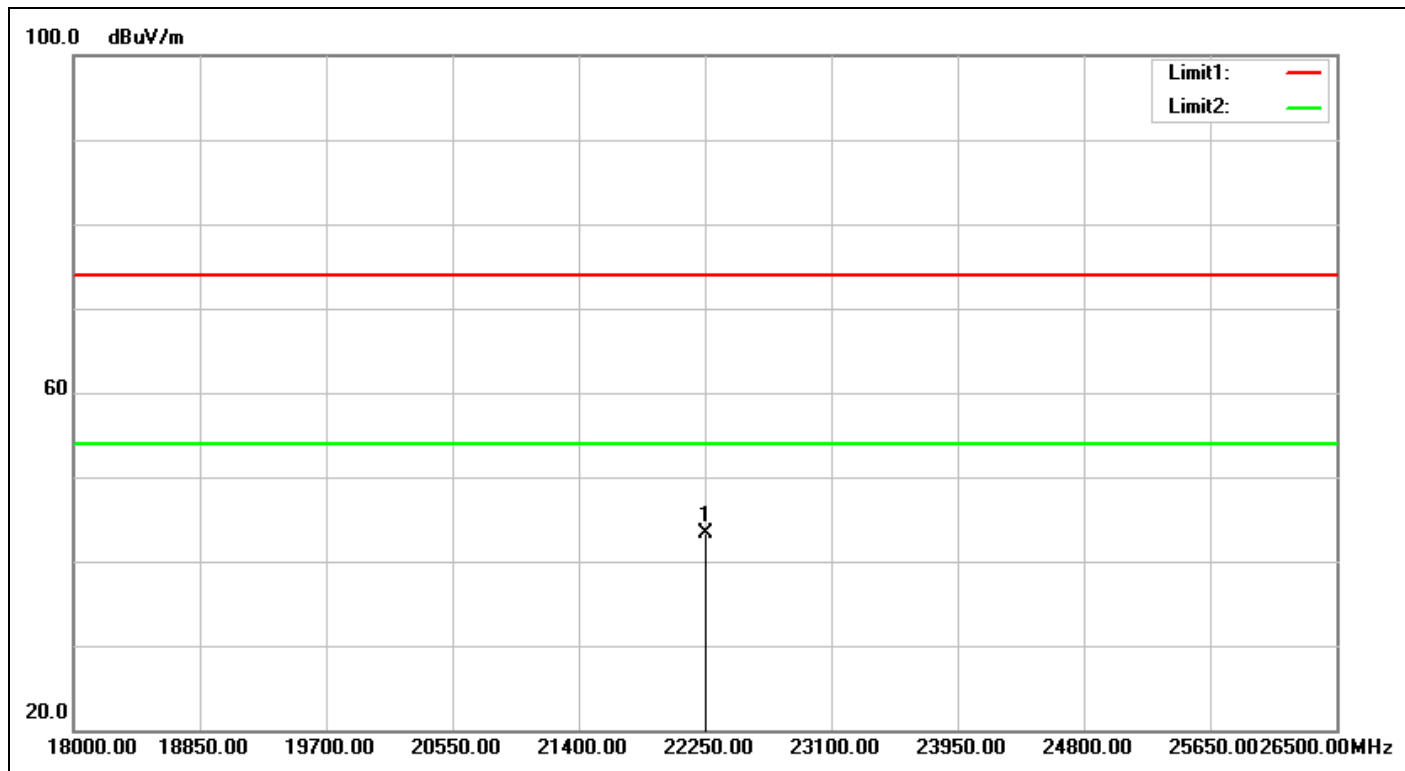
Spurious Emissions, TX Mode, 18-26.5G



TUV Rheinland Taiwan Ltd.

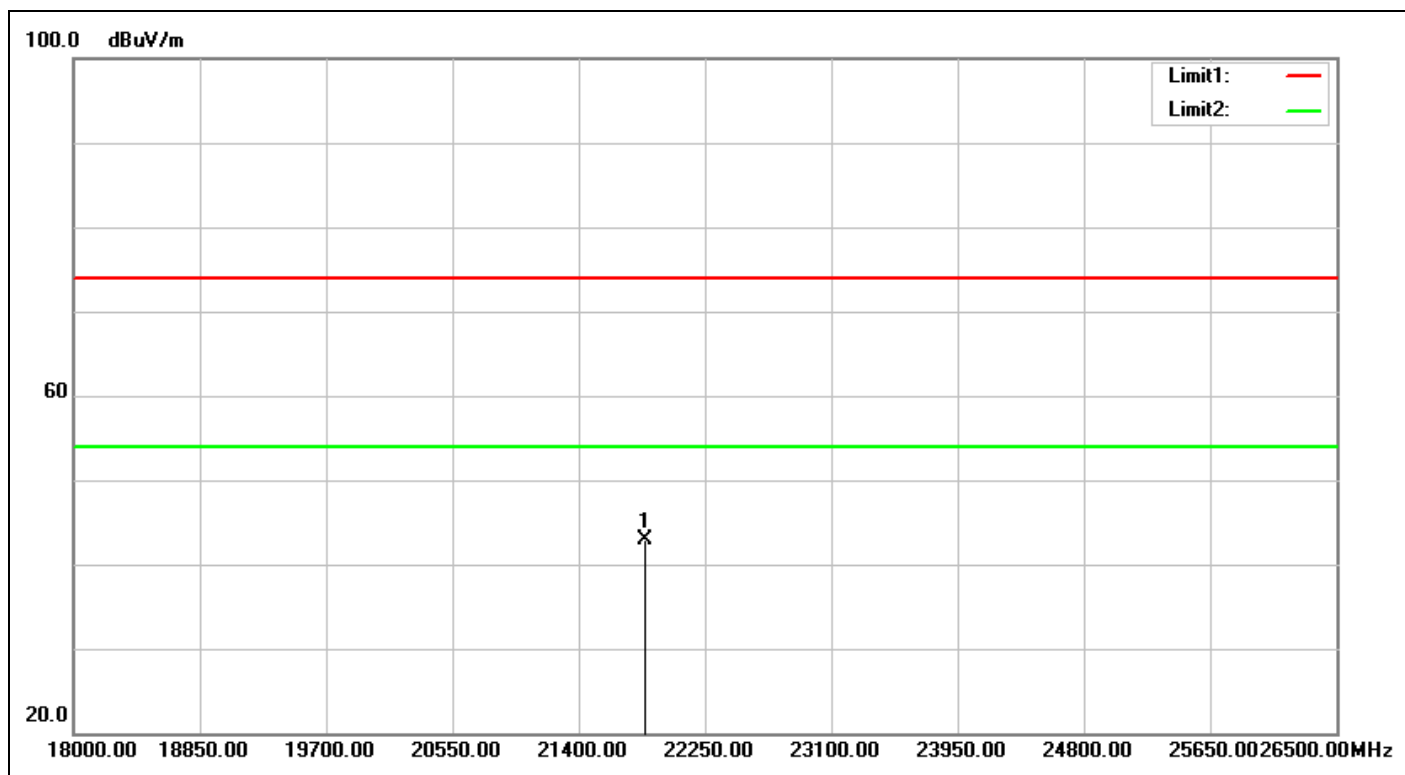
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



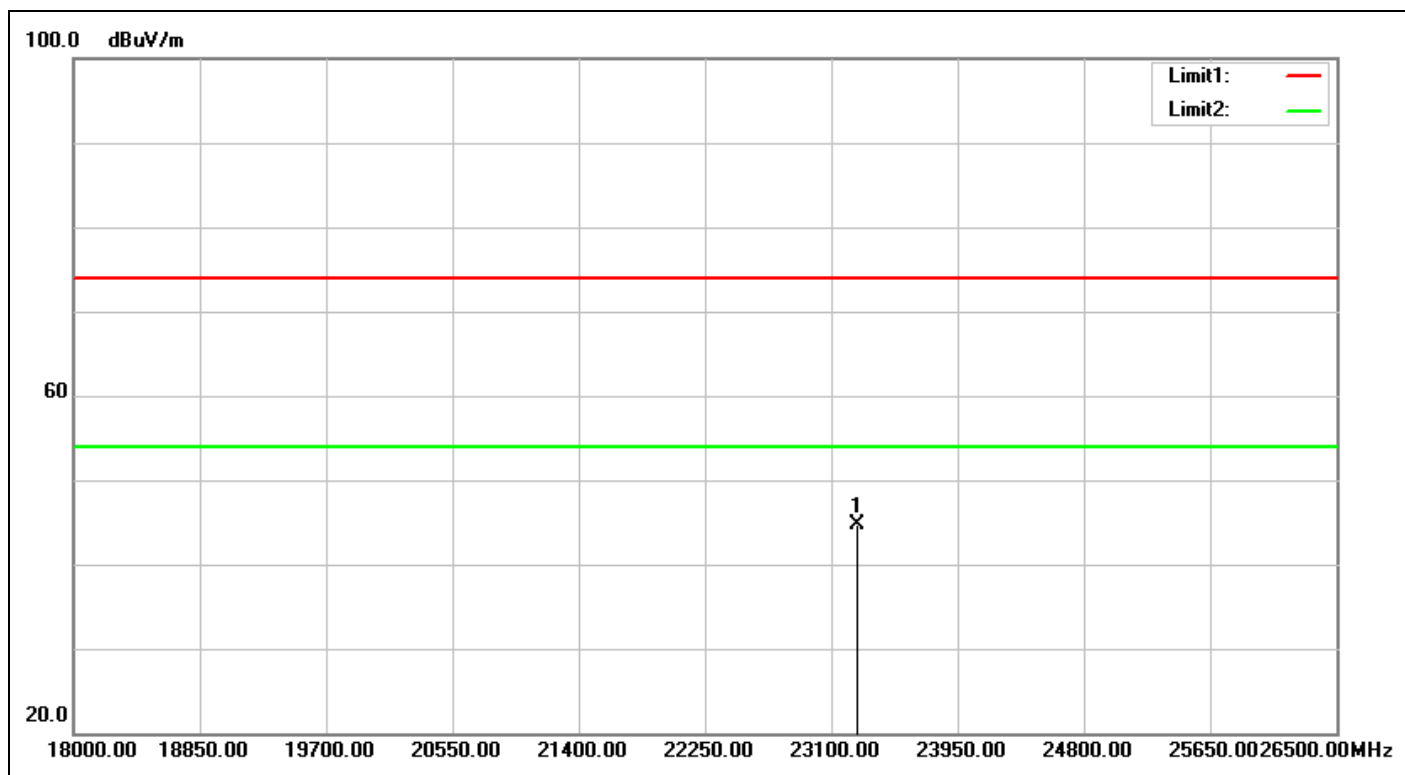
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 15:12:52
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2402-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22258.500	4.75	38.57	43.32	74.00	-30.68	peak	100	34	



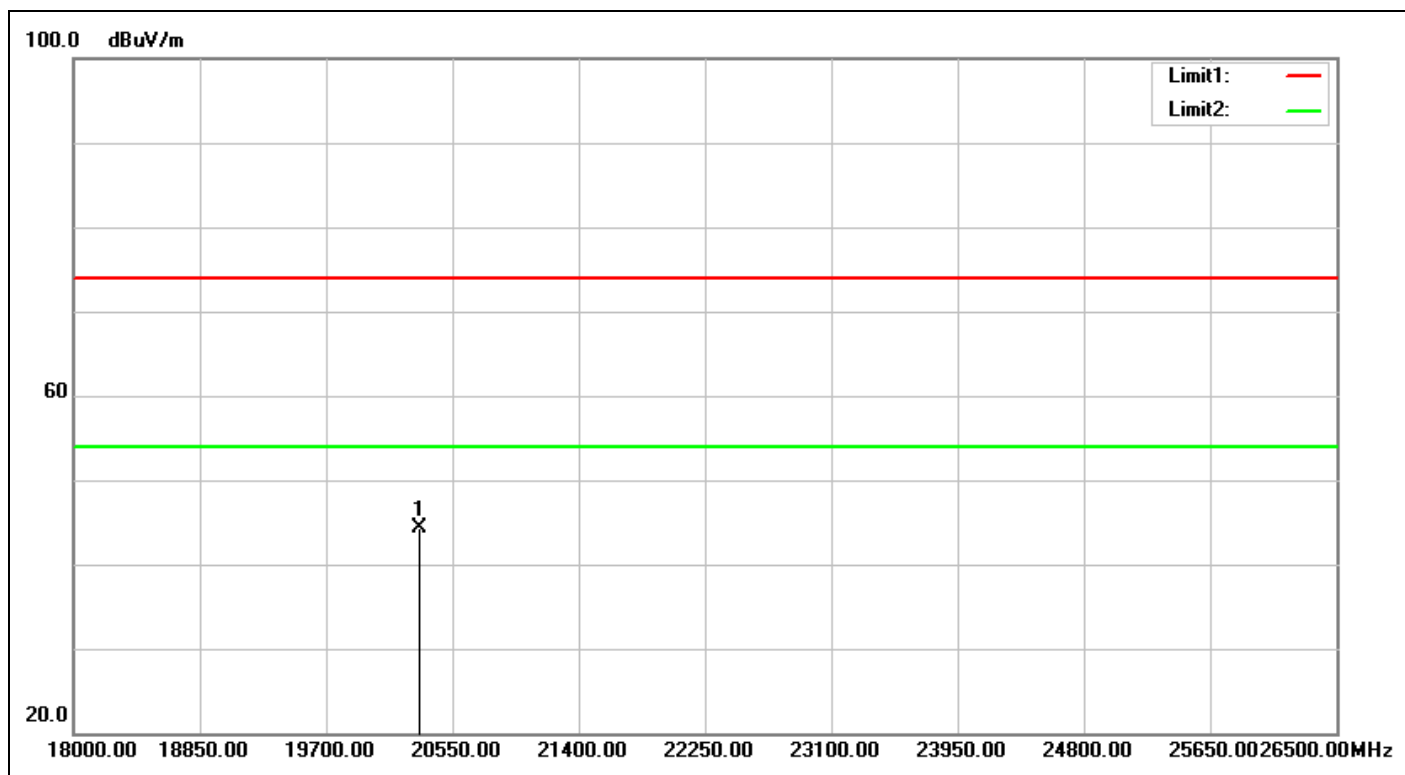
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 15:13:58
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2402-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21842.000	4.32	38.62	42.94	74.00	-31.06	peak	100	229	



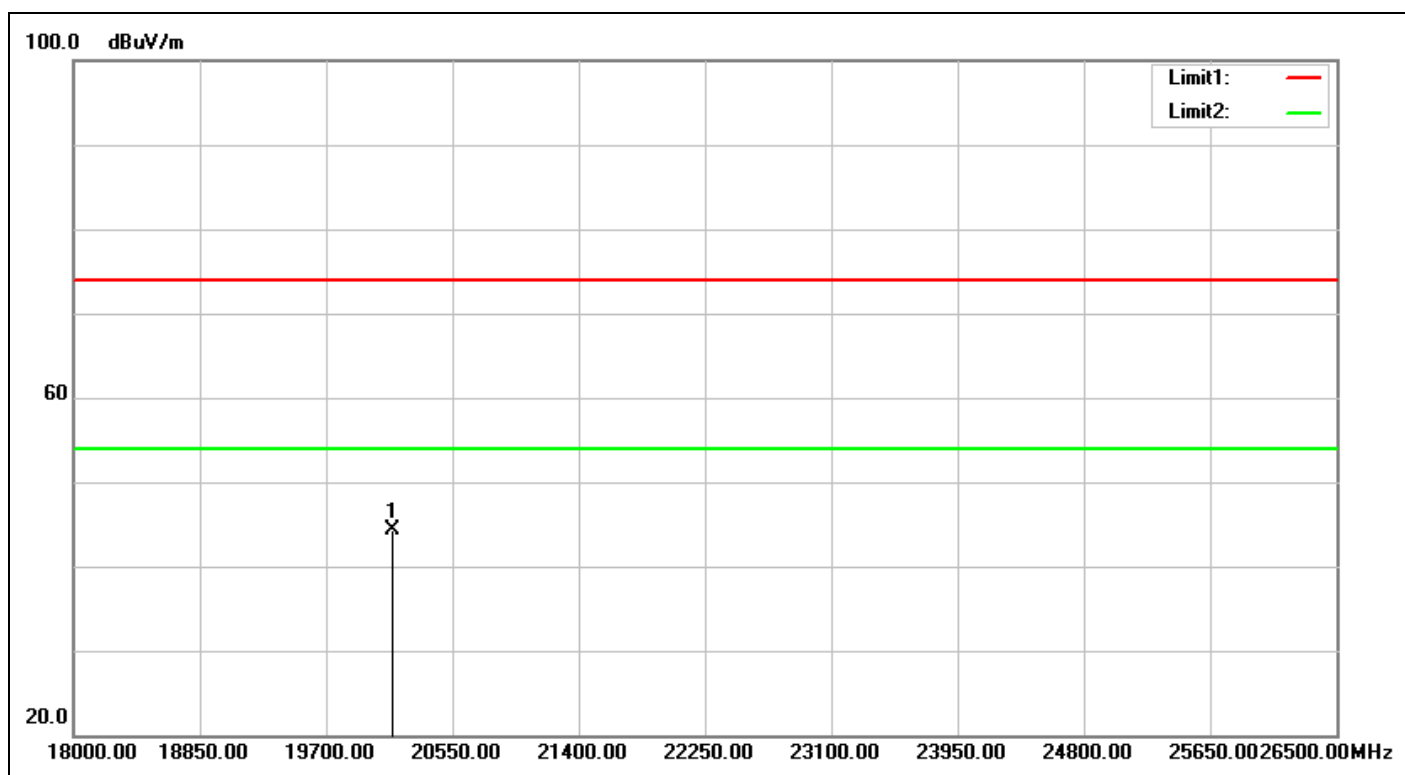
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 15:14:27
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2441-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23270.000	5.24	39.47	44.71	74.00	-29.29	peak	100	181	



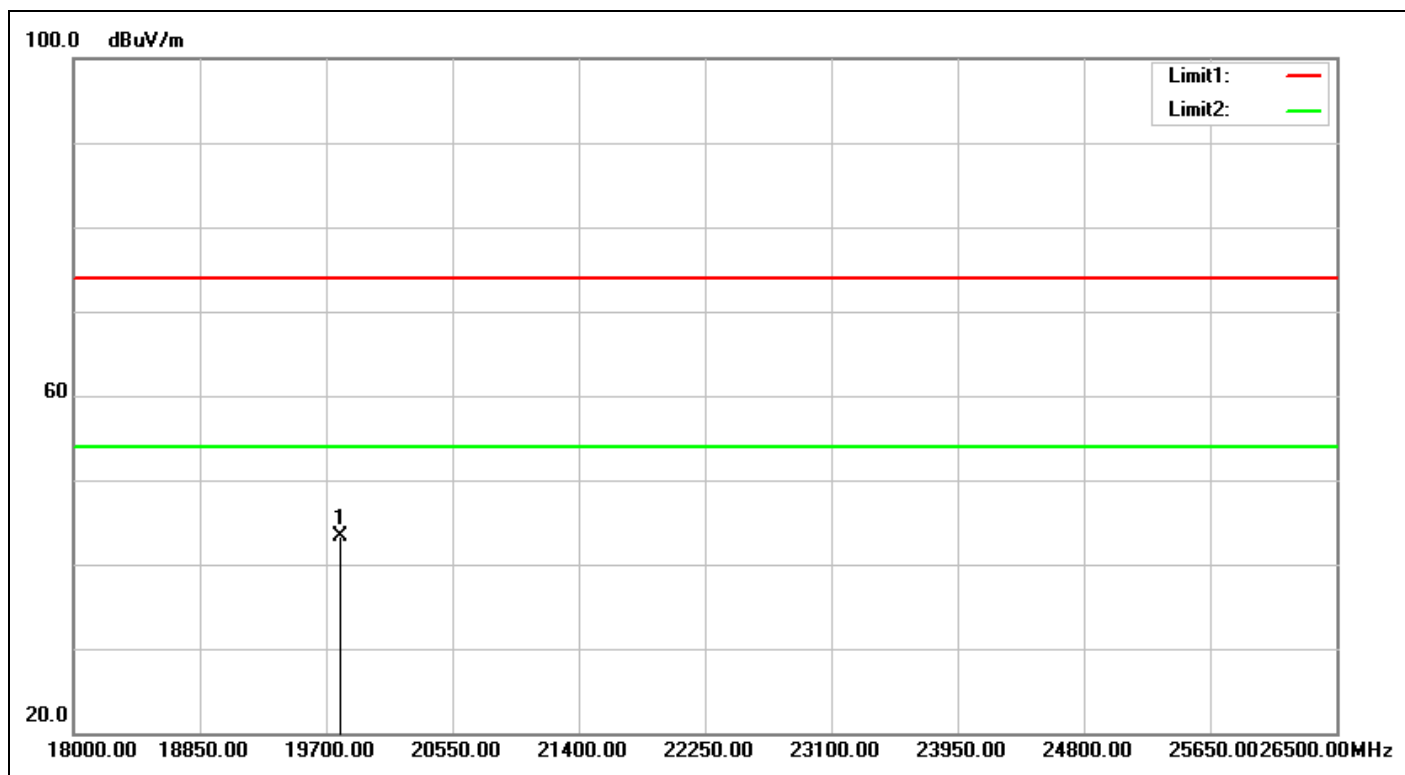
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 15:15:34
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2441-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20329.000	4.42	39.94	44.36	74.00	-29.64	peak	100	64	



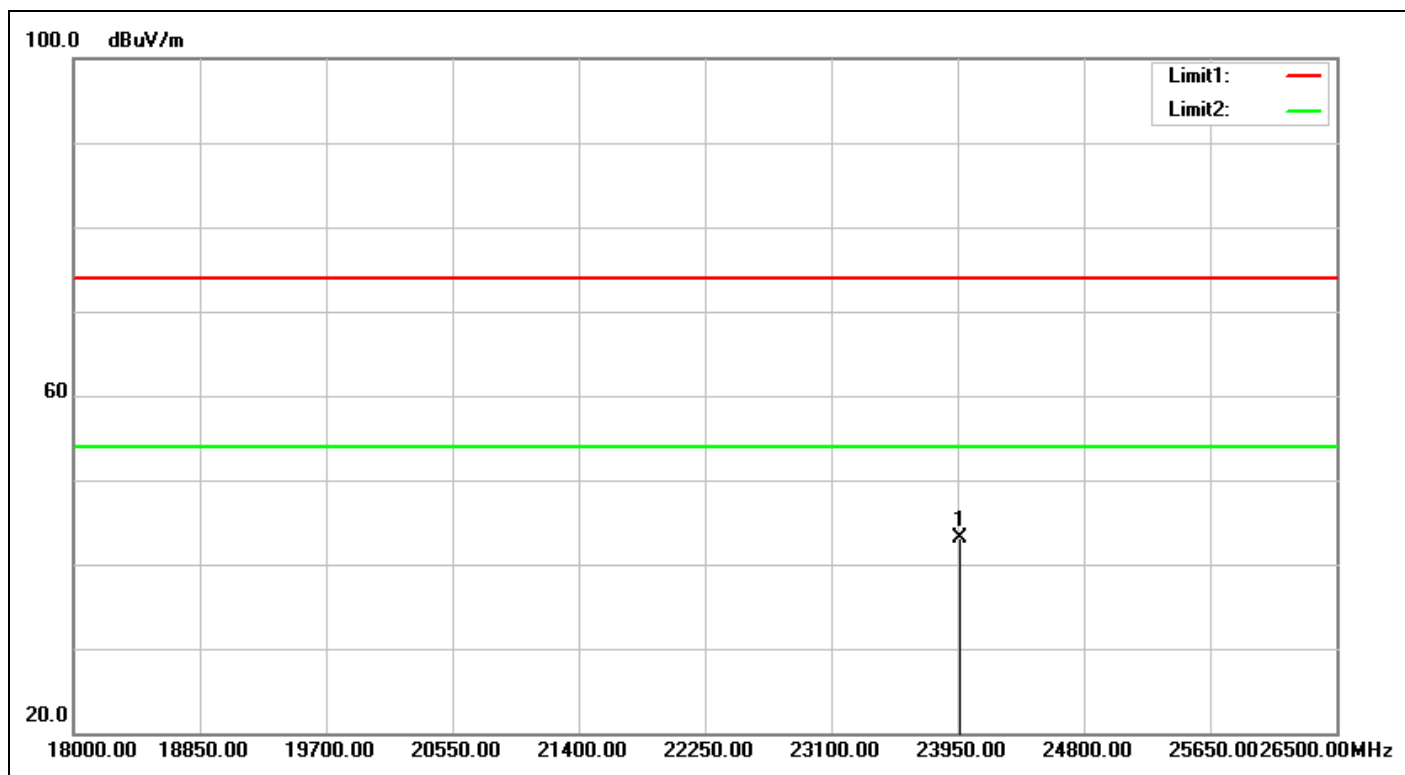
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 15:16:08
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2480-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20142.000	4.24	40.03	44.27	74.00	-29.73	peak	100	352	



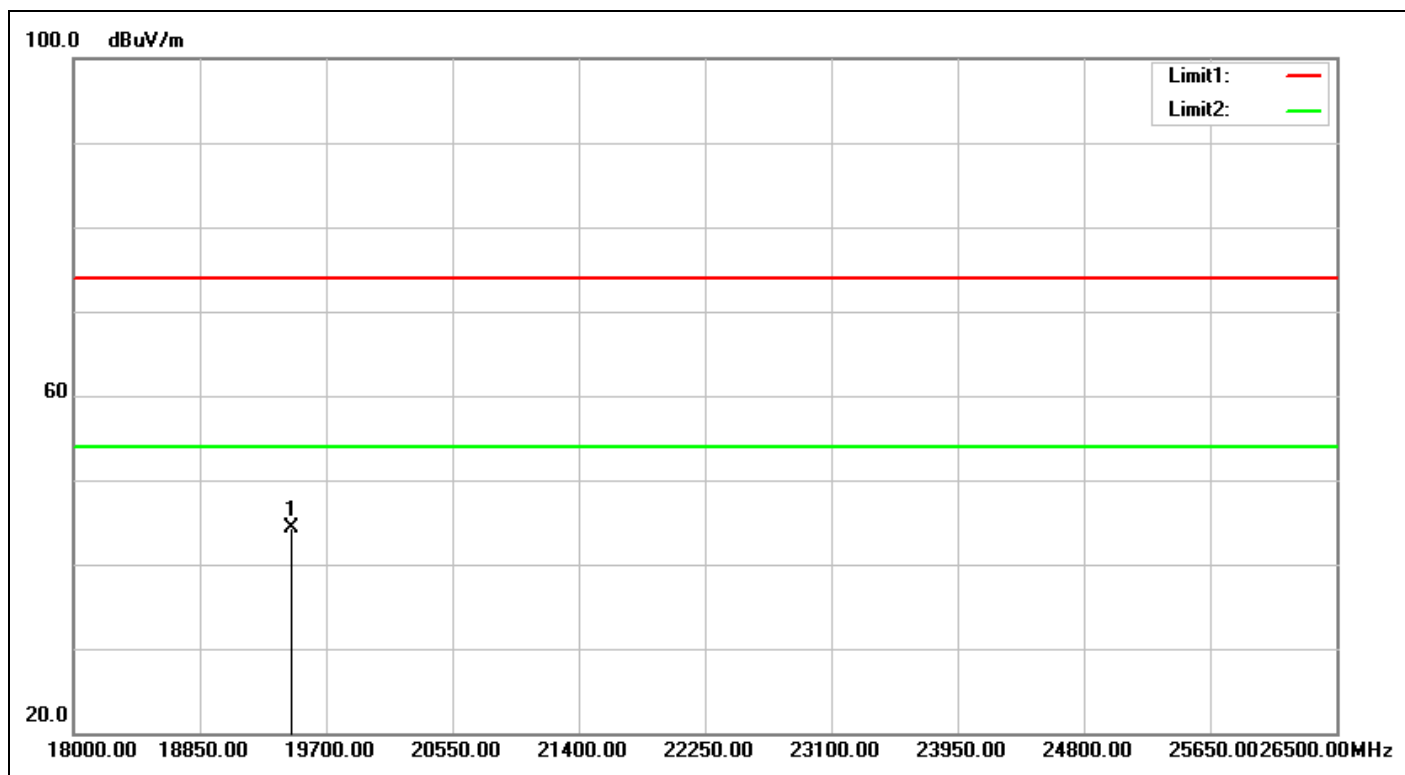
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 15:17:14
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2480-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19793.500	3.63	39.68	43.31	74.00	-30.69	peak	100	48	



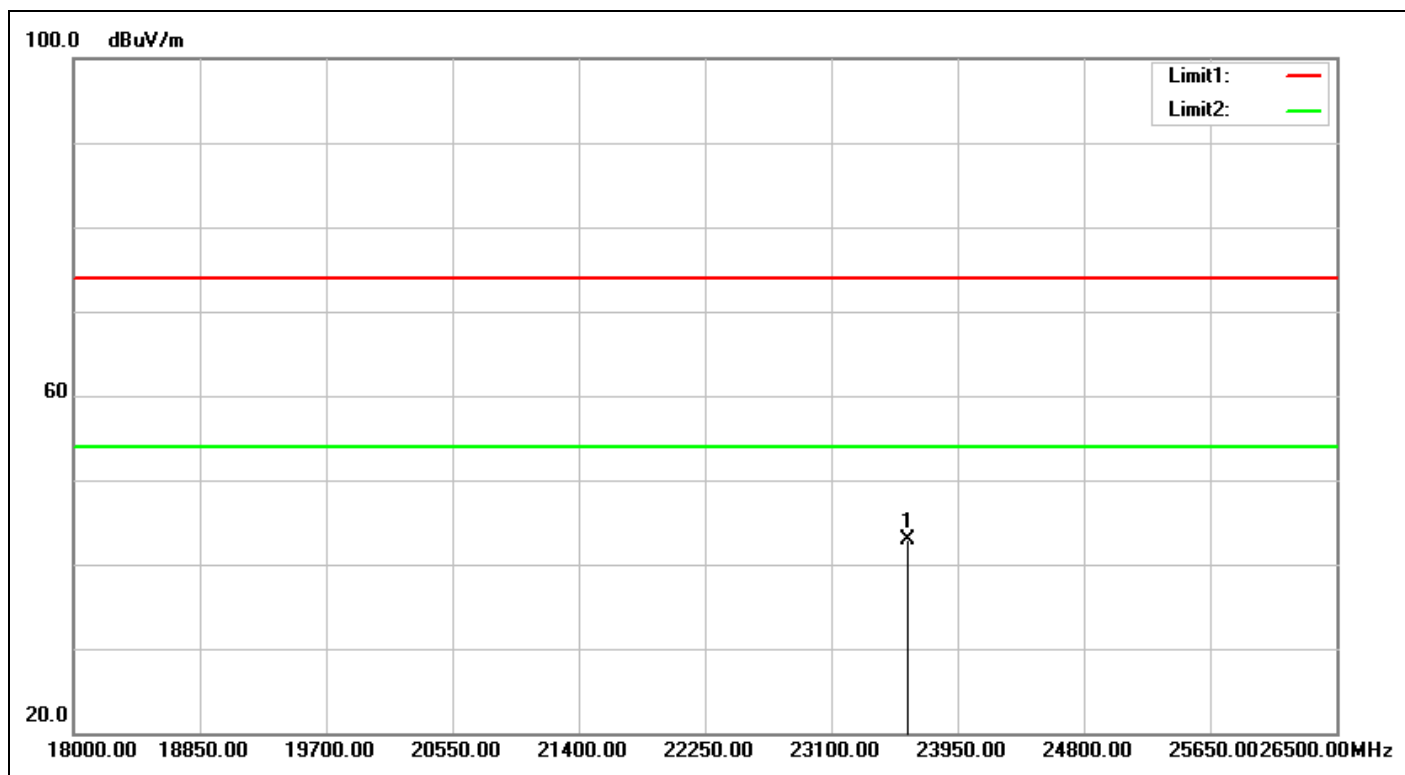
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 15:18:04
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	3DH5-TX-2402-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23967.000	5.33	37.79	43.12	74.00	-30.88	peak	100	102	



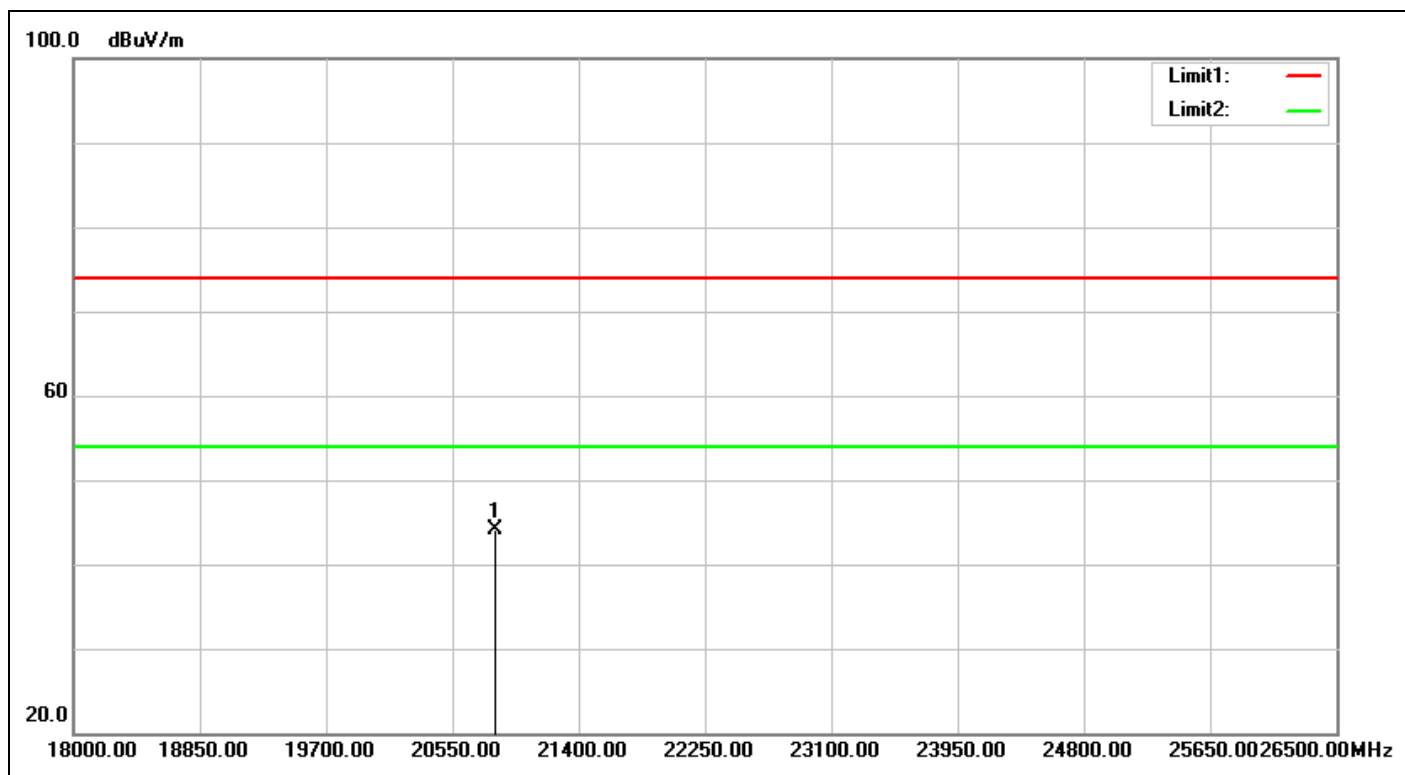
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 15:19:10
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	3DH5-TX-2402-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19470.500	3.67	40.54	44.21	74.00	-29.79	peak	100	155	



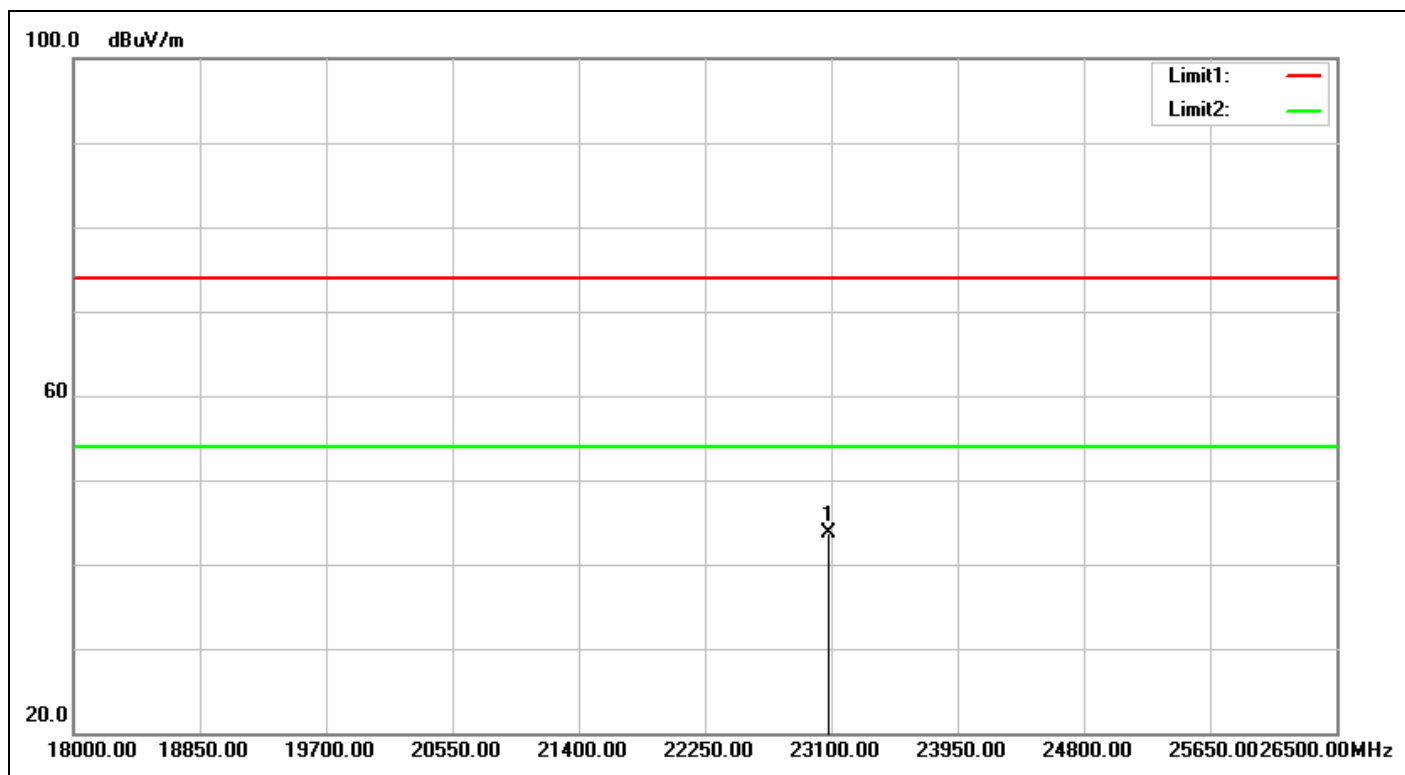
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 15:20:49
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	3DH5-TX-2441-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23618.500	5.26	37.74	43.00	74.00	-31.00	peak	100	129	



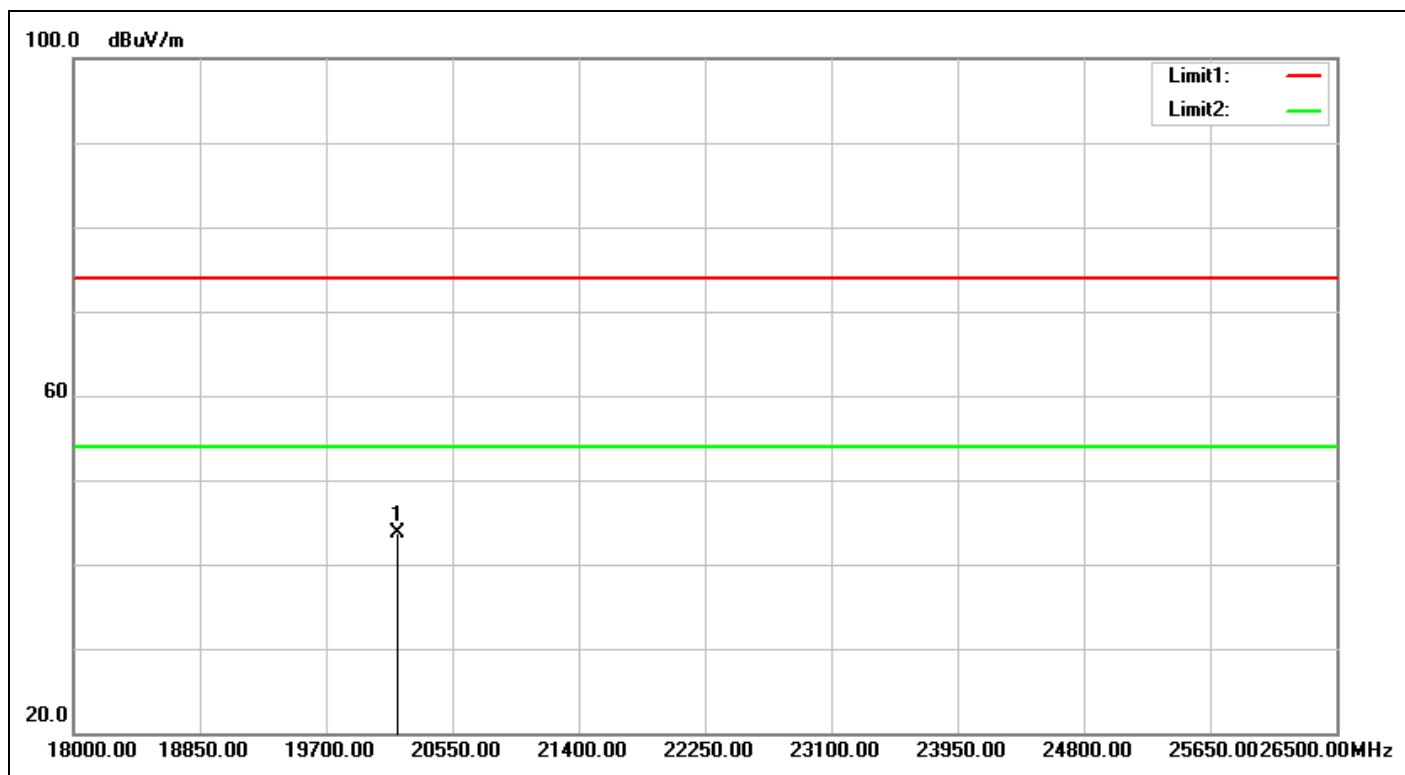
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 15:21:56
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	3DH5-TX-2441-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20839.000	4.33	39.78	44.11	74.00	-29.89	peak	100	355	



Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 15:22:29
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	3DH5-TX-2480-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23083.000	5.15	38.59	43.74	74.00	-30.26	peak	100	306	



Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 15:23:36
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	3DH5-TX-2480-setting : 7(Max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20184.500	4.36	39.34	43.70	74.00	-30.30	peak	100	211	

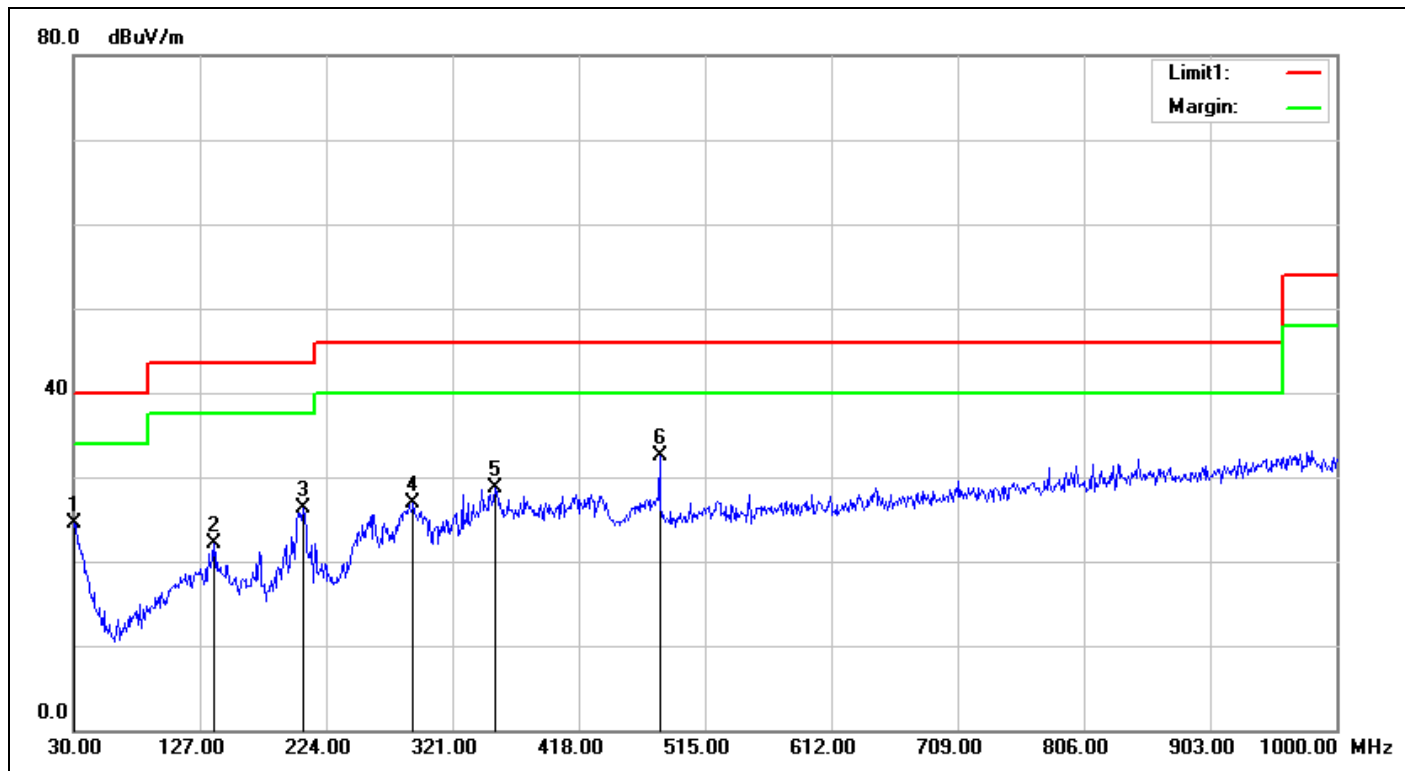
Spurious Emissions, TX Mode, 30M-1G



TUV Rheinland Taiwan Ltd.

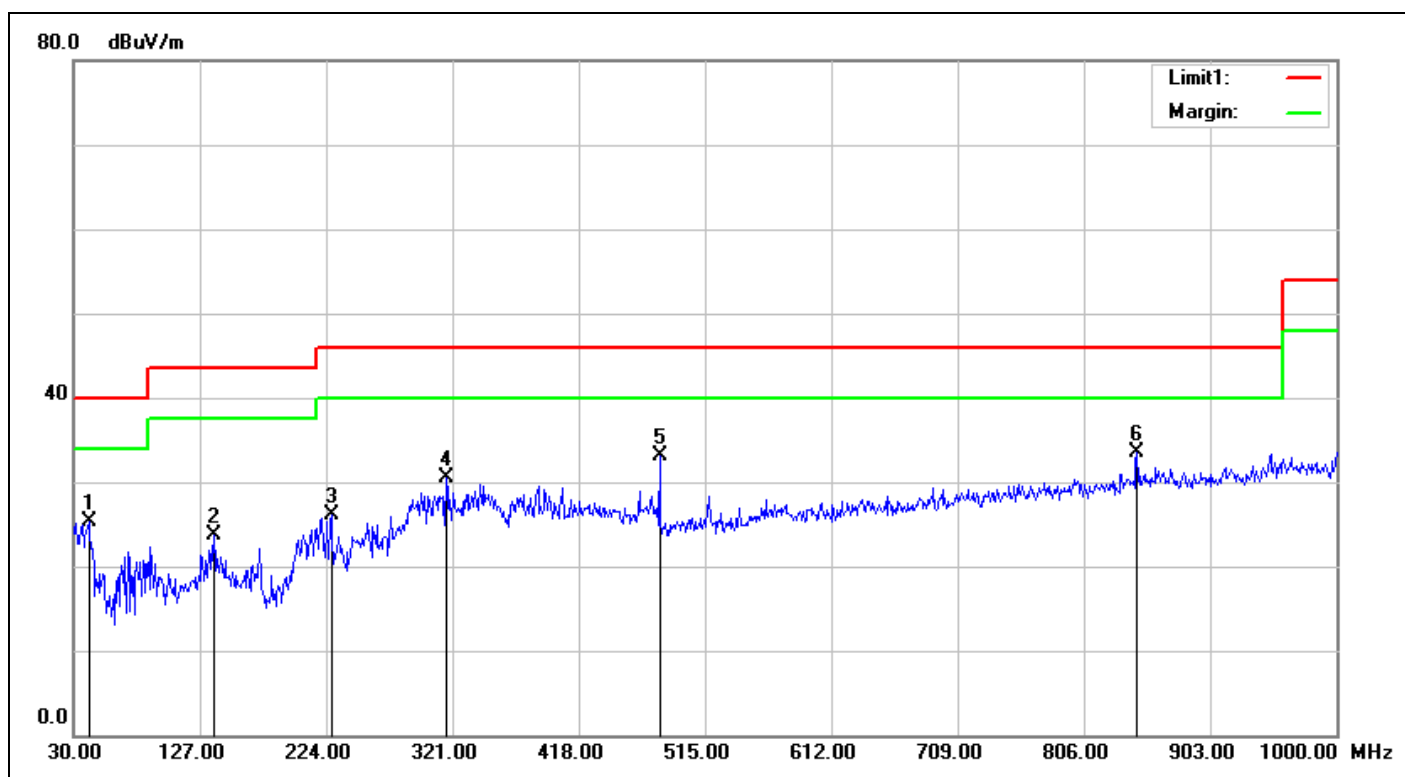
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 15:30:04
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2441-setting-7(max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.03	24.50	24.47	40.00	-15.53	QP	100	249	
2	137.6699	-6.95	29.03	22.08	43.50	-21.42	QP	100	219	
3	206.5399	-8.60	34.82	26.22	43.50	-17.28	QP	100	249	
4	290.9300	-4.77	31.70	26.93	46.00	-19.07	QP	100	100	
5	353.9800	-3.19	31.96	28.77	46.00	-17.23	QP	100	116	
6	480.0799	-1.52	33.98	32.46	46.00	-13.54	QP	100	233	



Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 15:31:58
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2441-setting-7(max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	41.6400	-6.75	32.14	25.39	40.00	-14.61	QP	100	193	
2	137.6700	-6.95	30.60	23.65	43.50	-19.85	QP	100	357	
3	227.8800	-7.72	33.83	26.11	46.00	-19.89	QP	100	177	
4	316.1500	-4.42	34.92	30.50	46.00	-15.50	QP	100	177	
5	480.0800	-1.52	34.72	33.20	46.00	-12.80	QP	100	209	
6	846.7400	3.85	29.74	33.59	46.00	-12.41	QP	100	320	

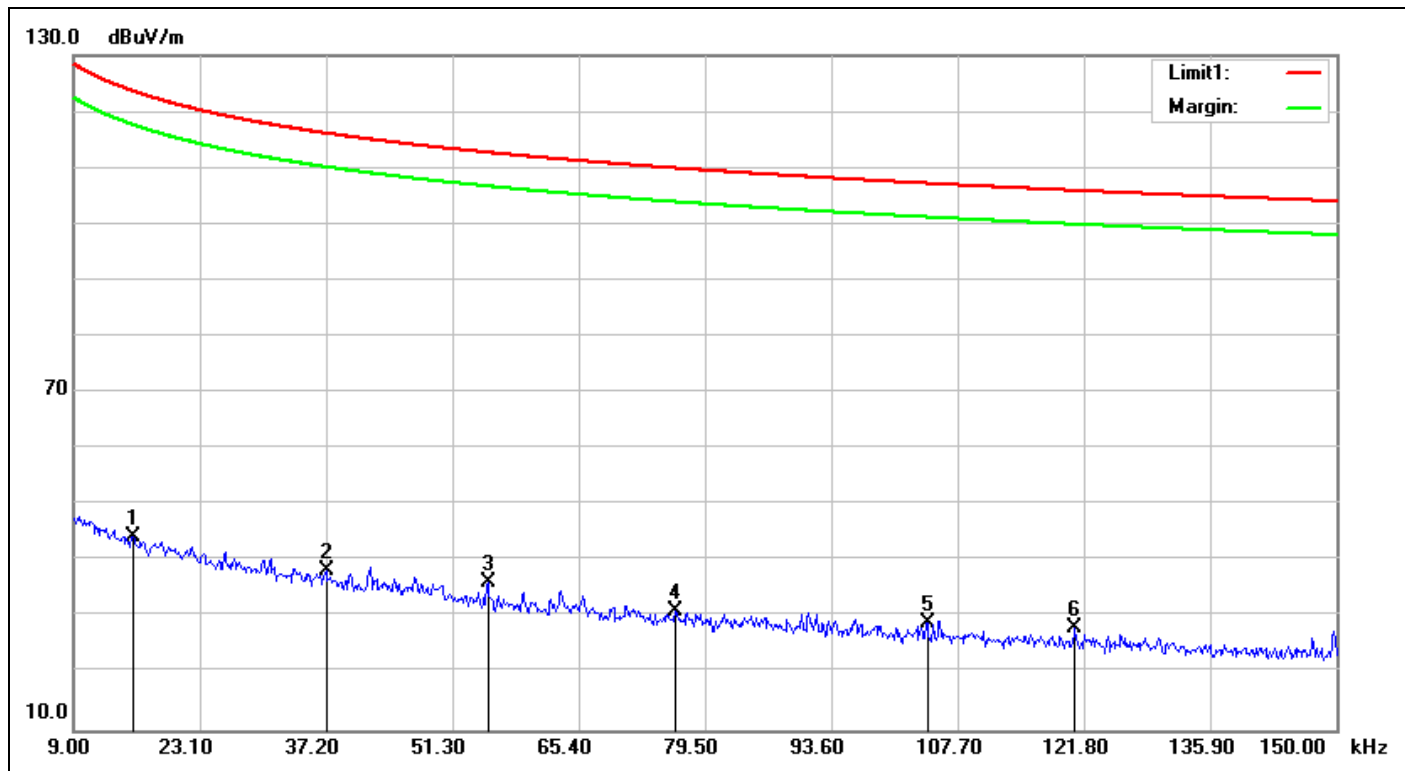
Spurious Emissions, TX Mode, 9K-30M



TUV Rheinland Taiwan Ltd.

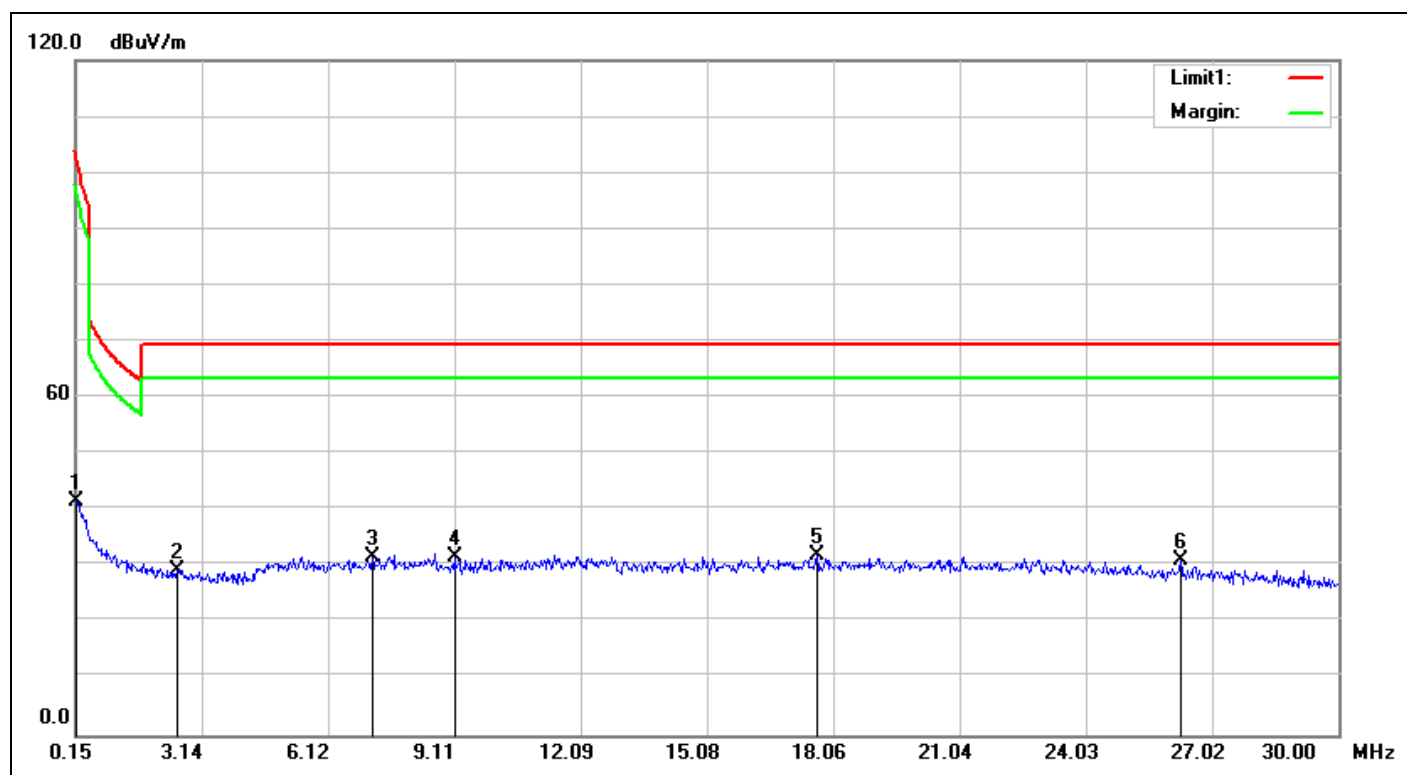
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2019/2/18 15:34:45
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2441-setting-7(max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0156	18.75	25.69	44.44	123.64	-79.20	QP	100	159	
2	0.0372	19.17	19.04	38.21	116.12	-77.91	QP	100	170	
3	0.0552	18.86	17.30	36.16	112.70	-76.54	QP	100	189	
4	0.0761	18.61	12.42	31.03	109.92	-78.89	QP	100	331	
5	0.1043	18.33	10.87	29.20	107.19	-77.99	QP	100	97	
6	0.1208	18.34	9.74	28.08	105.92	-77.84	QP	100	308	



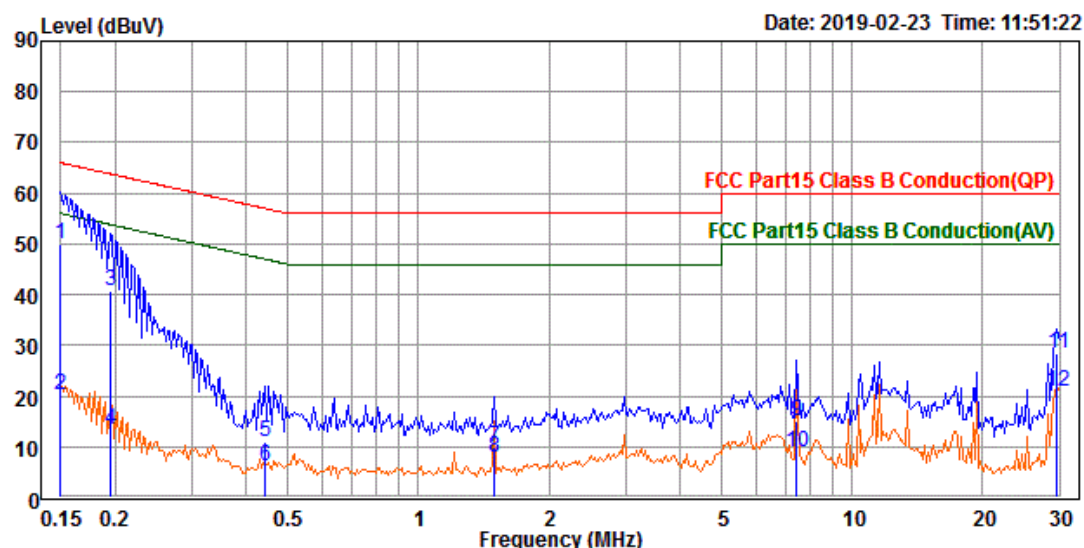
Service No.:	238100183	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2019/2/18 15:35:18
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	19(°C)/52%
Model No.:	WBU042-IG5V	Test Engineer:	Kevin Kuo
Test Mode:	1DH5-TX-2441-setting-7(max)		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1799	18.37	23.08	41.45	102.47	-61.02	QP	100	2	
2	2.5380	18.56	10.81	29.37	69.50	-40.13	QP	100	231	
3	7.1647	19.89	11.74	31.63	69.50	-37.87	QP	100	185	
4	9.1049	20.27	11.43	31.70	69.50	-37.80	QP	100	289	
5	17.6719	21.33	10.59	31.92	69.50	-37.58	QP	100	335	
6	26.2688	21.84	9.18	31.02	69.50	-38.48	QP	100	189	

Spurious Emissions, AC Mains



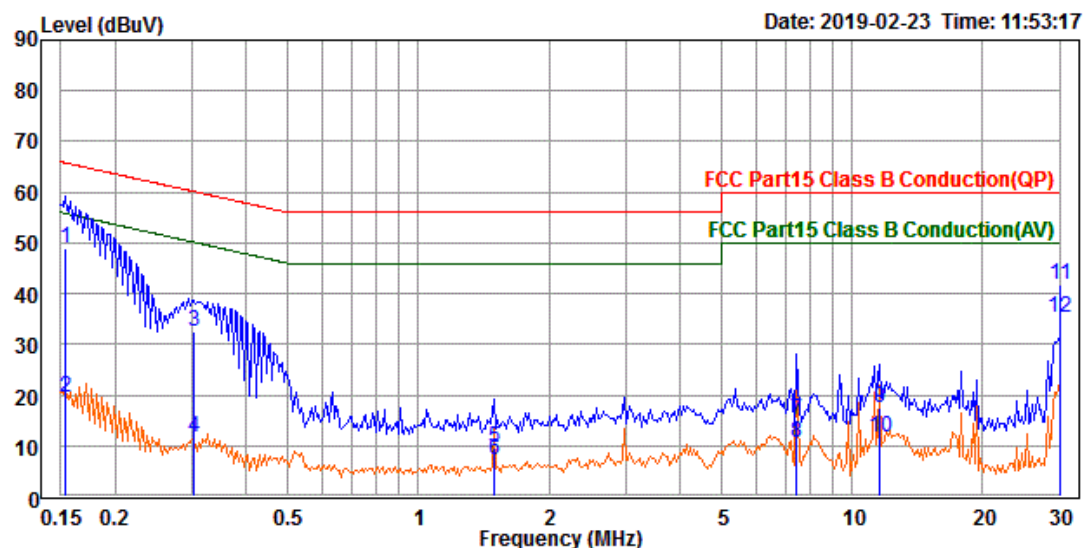
TUV Rheinland Taiwan Ltd.
11F., No. 758, Sec. 4 Bade Road. Songshan Dist, Taipei City 105
Tel:+886-2172-7000 Fax:+886-2528-0018



Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) line1
Test Engineer: Kevin Kuo
Applicant : Hon Hai Precision Industry Co.,Ltd
Product :
Model No. : WBU042-IG5V
Test Rating : 120Vac/60Hz
Tmp/Hum : 21°C/43%
Memo : BT AC Mains

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	40.15	9.68	49.83	66.00	-16.17	QP
2	0.150	10.52	9.68	20.20	56.00	-35.80	Average
3	0.194	30.98	9.68	40.66	63.85	-23.19	QP
4	0.194	3.83	9.68	13.51	53.85	-40.34	Average
5	0.443	1.37	9.69	11.06	57.00	-45.94	QP
6	0.443	-3.51	9.69	6.18	47.00	-40.82	Average
7	1.491	0.37	9.71	10.08	56.00	-45.92	QP
8	1.491	-1.84	9.71	7.87	46.00	-38.13	Average
9	7.460	5.28	9.79	15.07	60.00	-44.93	QP
10	7.460	-0.81	9.79	8.98	50.00	-41.02	Average
11	29.703	18.56	9.83	28.39	60.00	-31.61	QP
12	29.703	11.11	9.83	20.94	50.00	-29.06	Average



Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) neutral
Test Engineer: Kevin Kuo
Applicant : Hon Hai Precision Industry Co.,Ltd
Product :
Model No. : WBU042-IG5V
Test Rating : 120Vac/60Hz
Tmp/Hum : 21°C/43%
Memo : BT AC Mains

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.153	39.10	9.68	48.78	65.83	-17.05	QP
2	0.153	9.71	9.68	19.39	55.83	-36.44	Average
3	0.304	22.84	9.67	32.51	60.14	-27.63	QP
4	0.304	1.88	9.67	11.55	50.14	-38.59	Average
5	1.491	-0.13	9.71	9.58	56.00	-46.42	QP
6	1.491	-2.52	9.71	7.19	46.00	-38.81	Average
7	7.460	5.18	9.80	14.98	60.00	-45.02	QP
8	7.460	0.71	9.80	10.51	50.00	-39.49	Average
9	11.553	7.46	9.86	17.32	60.00	-42.68	QP
10	11.553	1.83	9.86	11.69	50.00	-38.31	Average
11	30.000	31.74	9.95	41.69	60.00	-18.31	QP
12	30.000	25.15	9.95	35.10	50.00	-14.90	Average