

Test Report No.50241447 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50241447 001AppendixD)

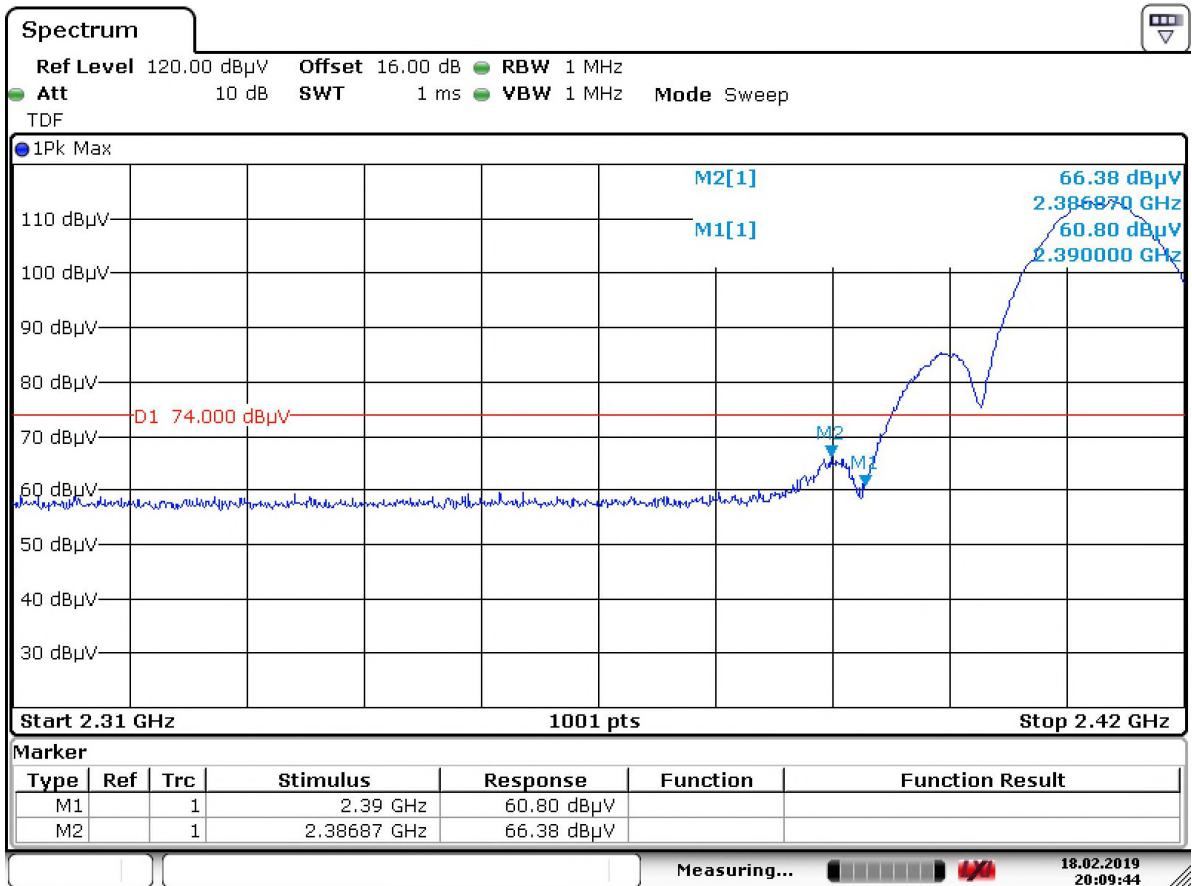
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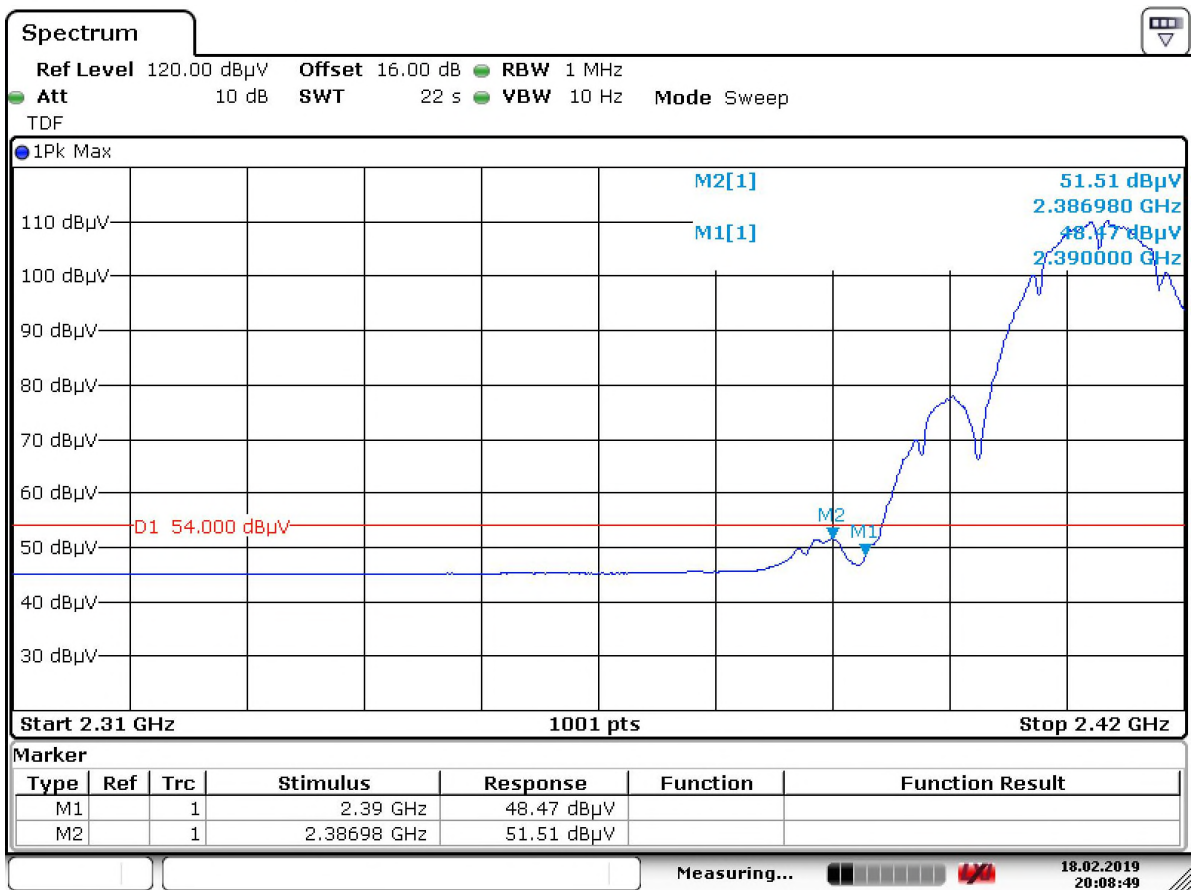
Spurious Emissions, Band Edges, 2.35-2.5G

802.11b

Low Channel (Horizontal)

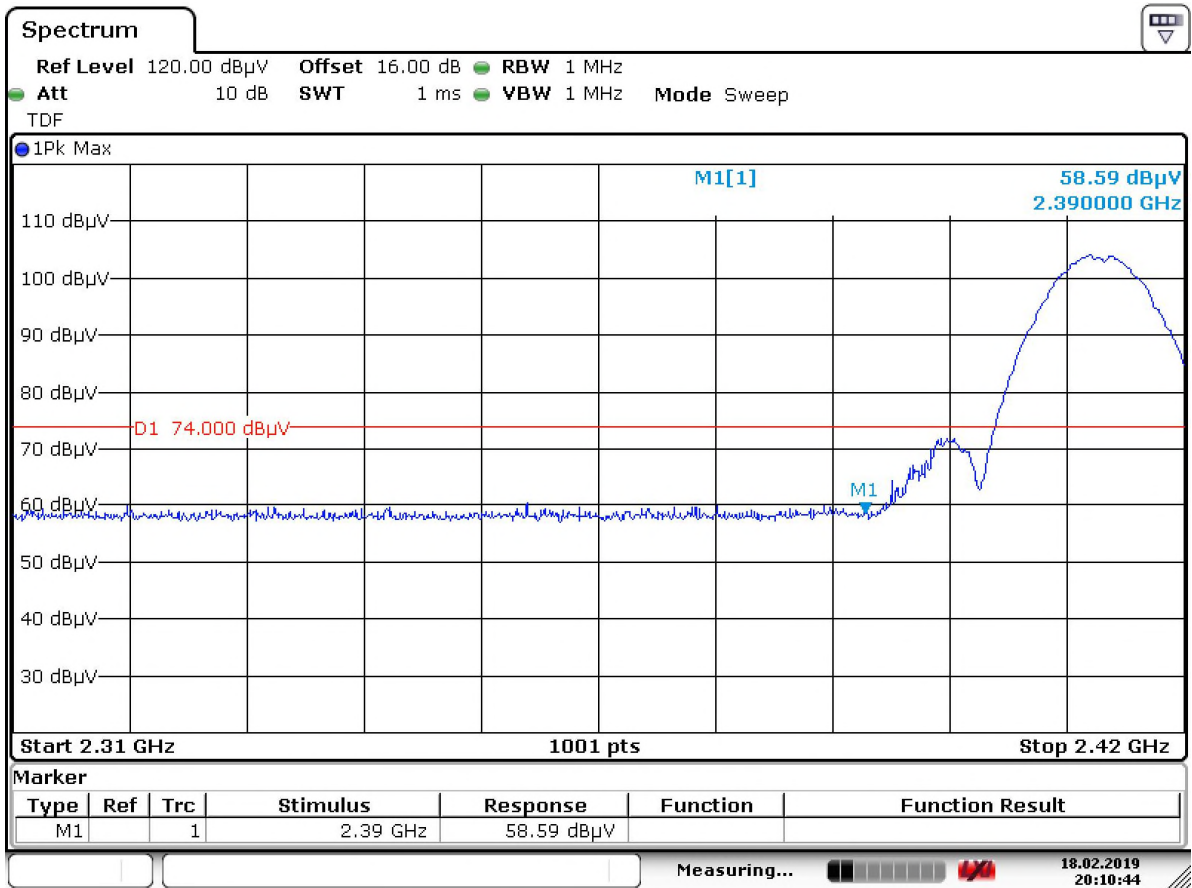


Date: 18.FEB.2019 20:09:45

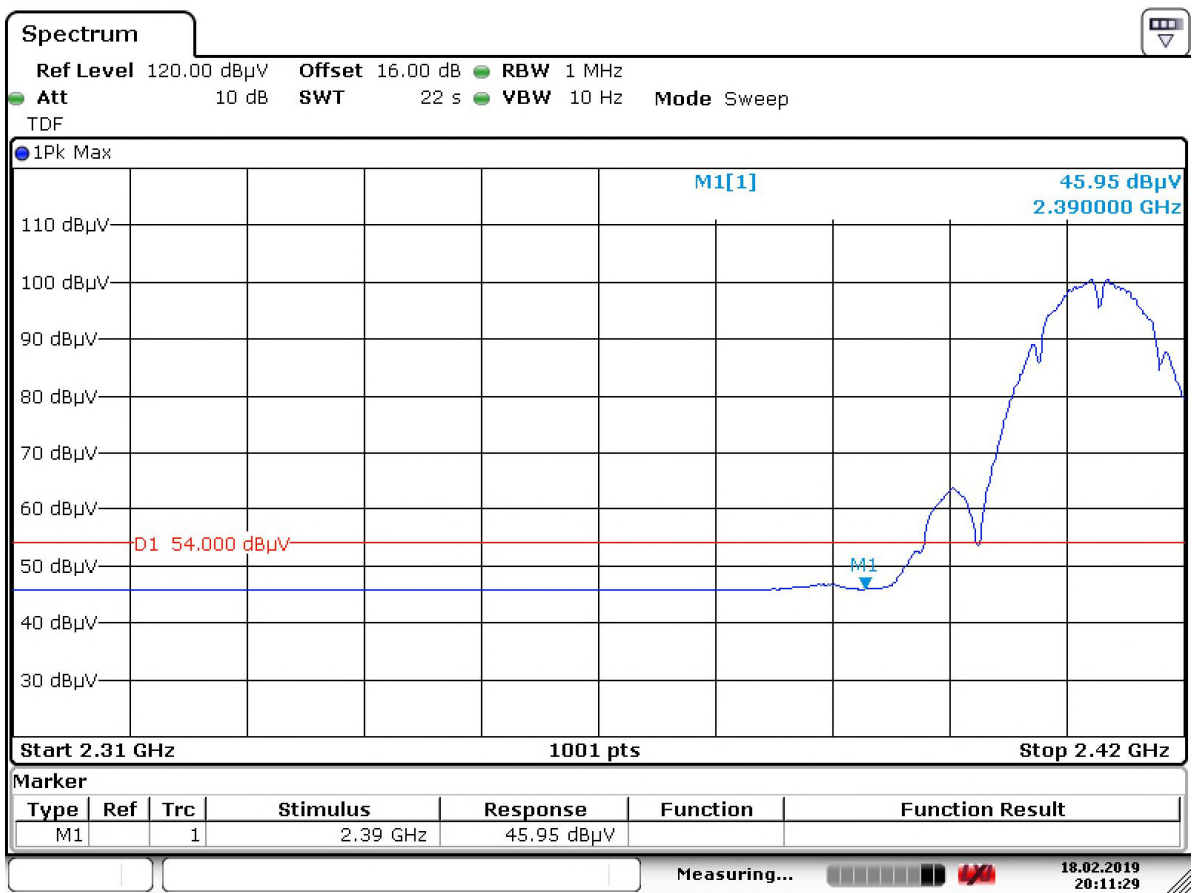


Date: 18.FEB.2019 20:08:49

Low Channel (Vertical)

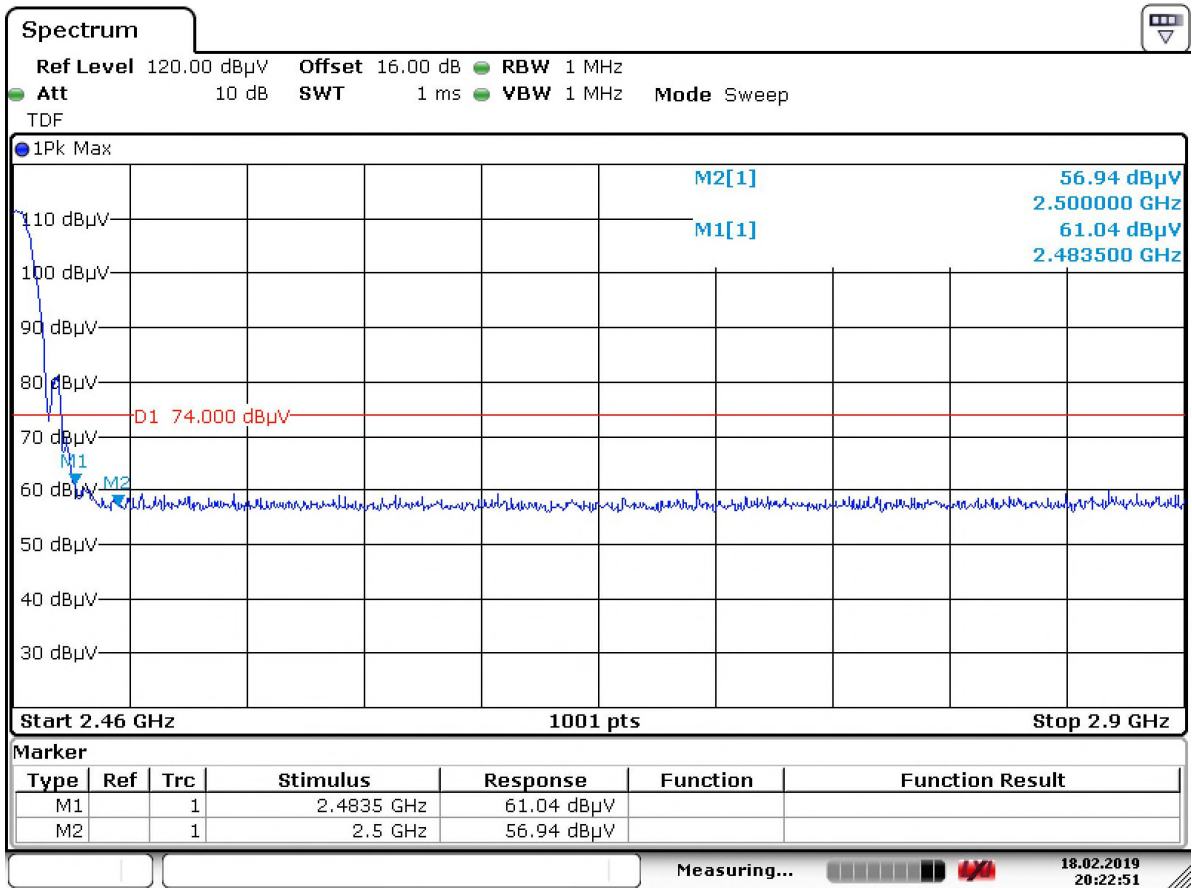


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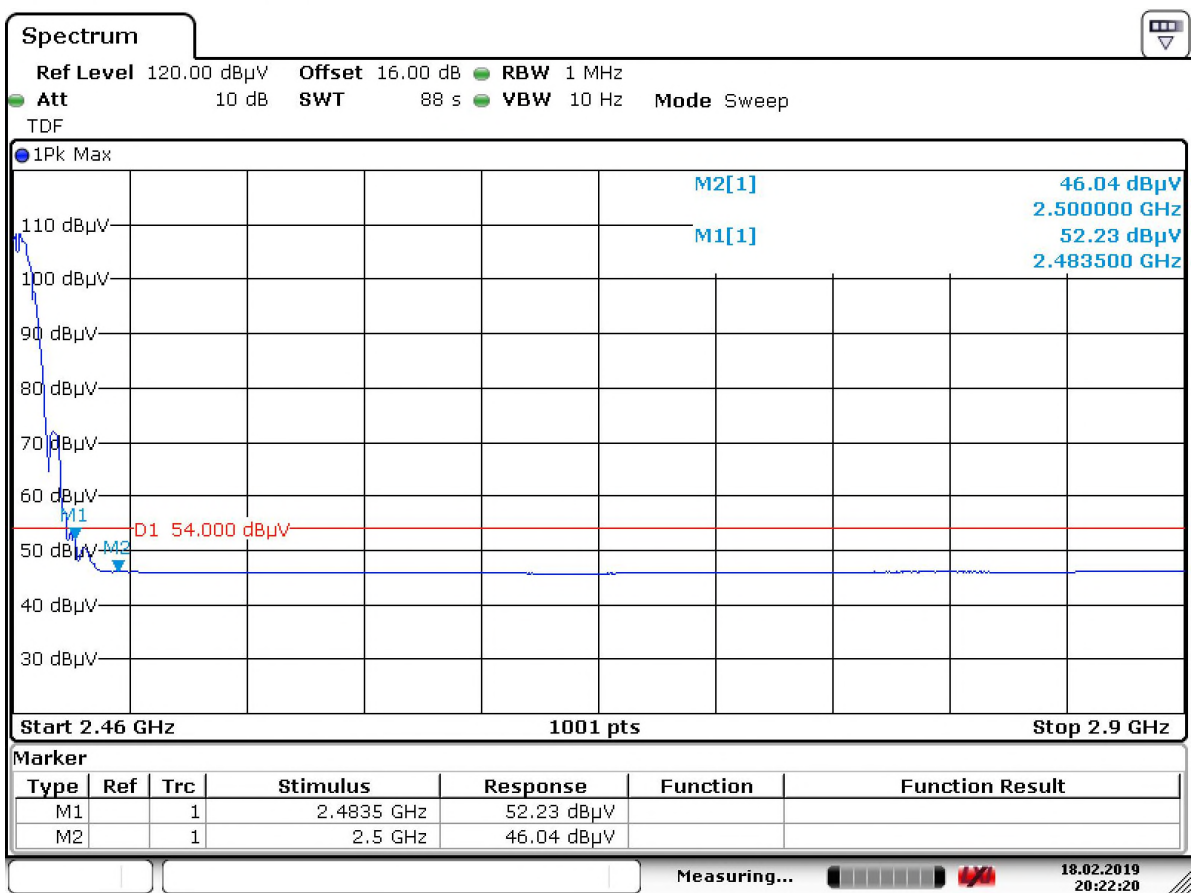


Date: 18.FEB.2019 20:11:30

High Channel (Horizontal)

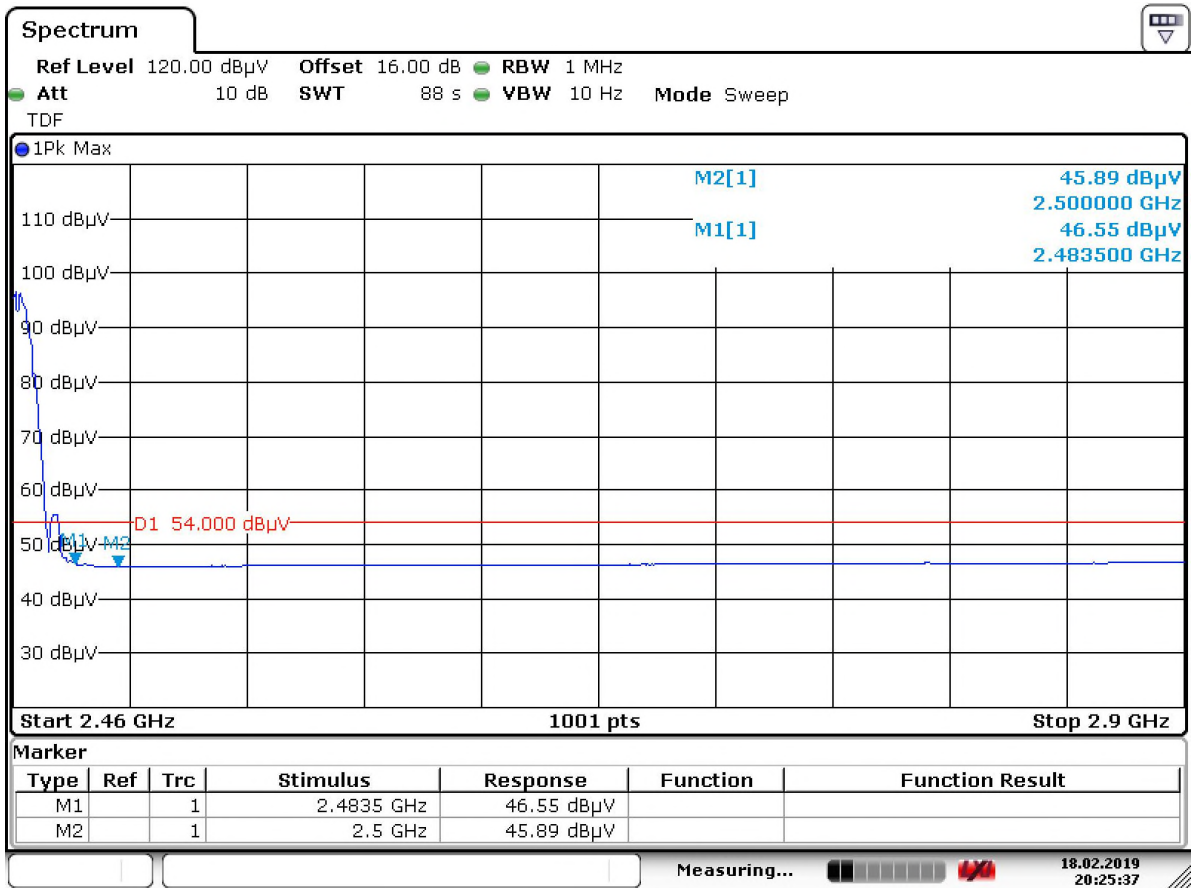


Date: 18.FEB.2019 20:22:51

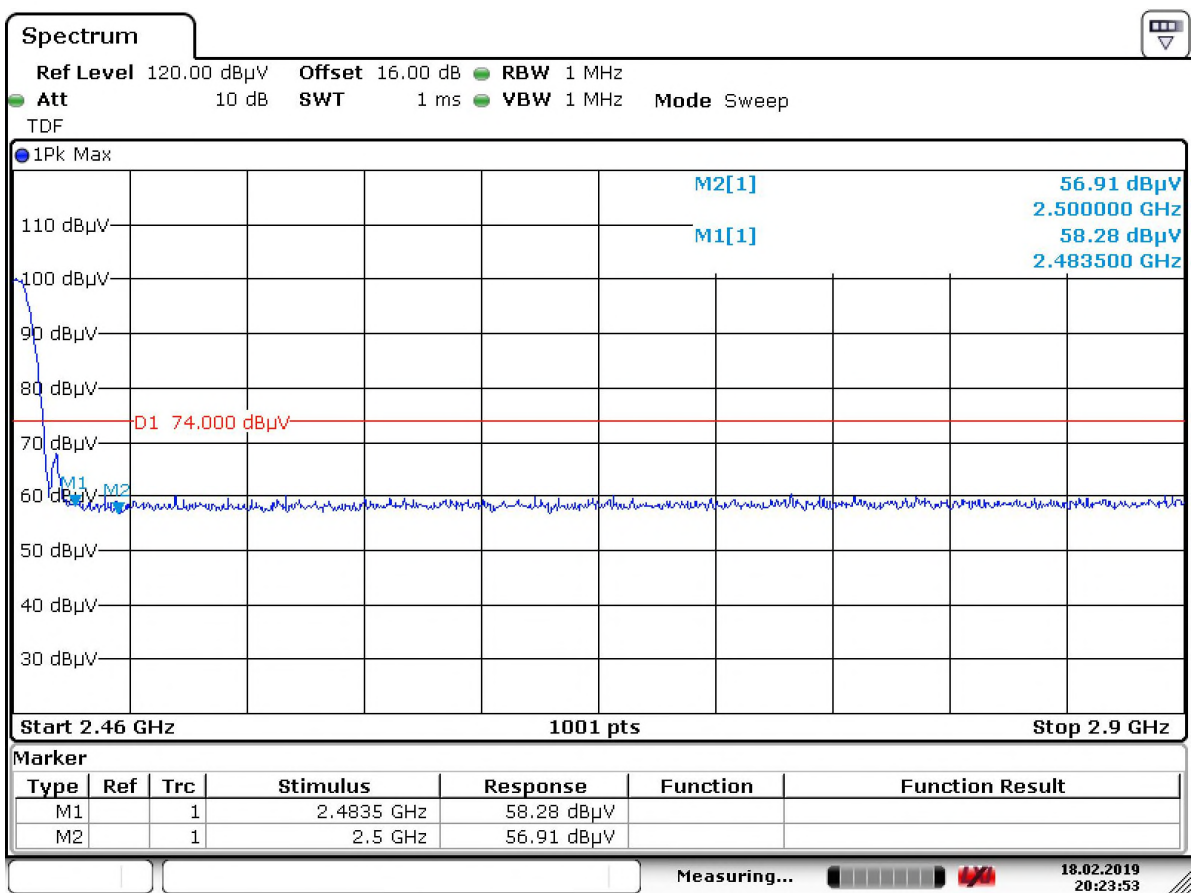


Date: 18.FEB.2019 20:22:20

High Channel (Vertical)



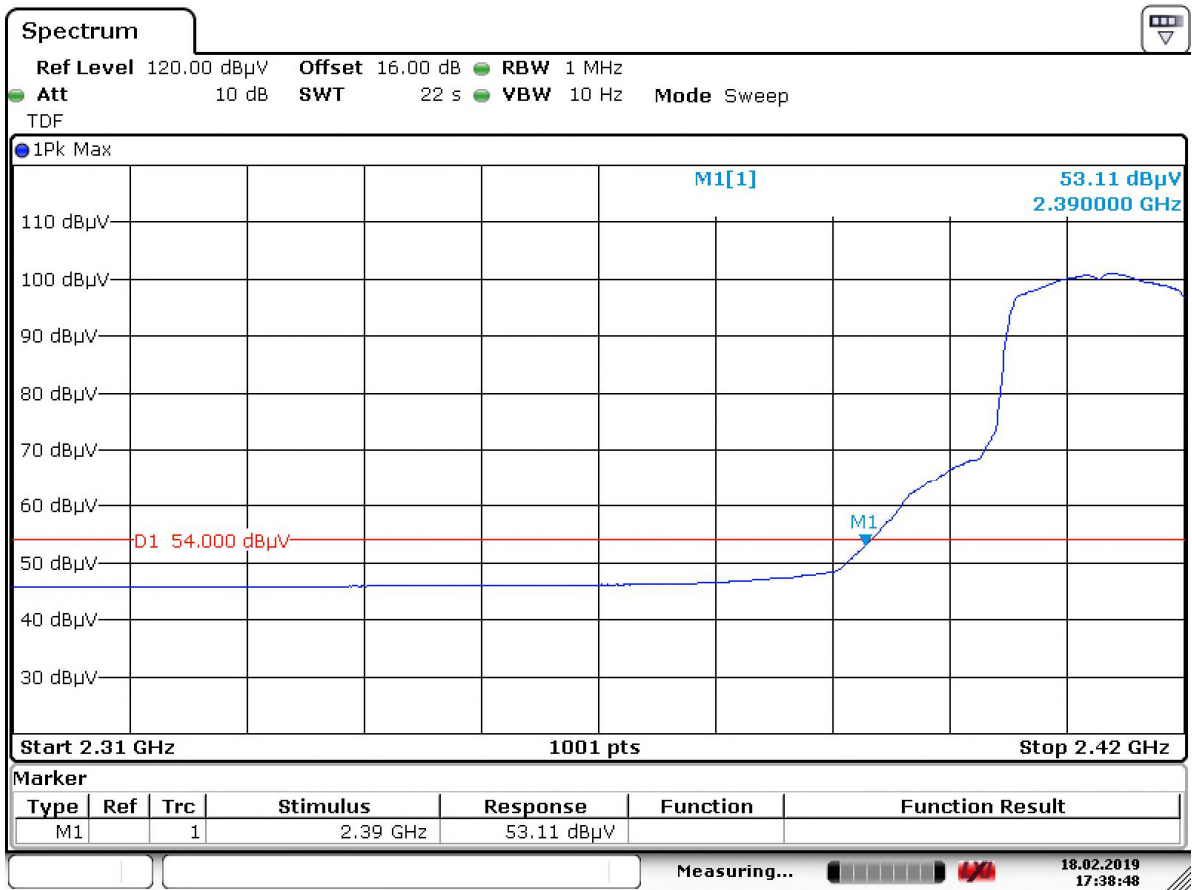
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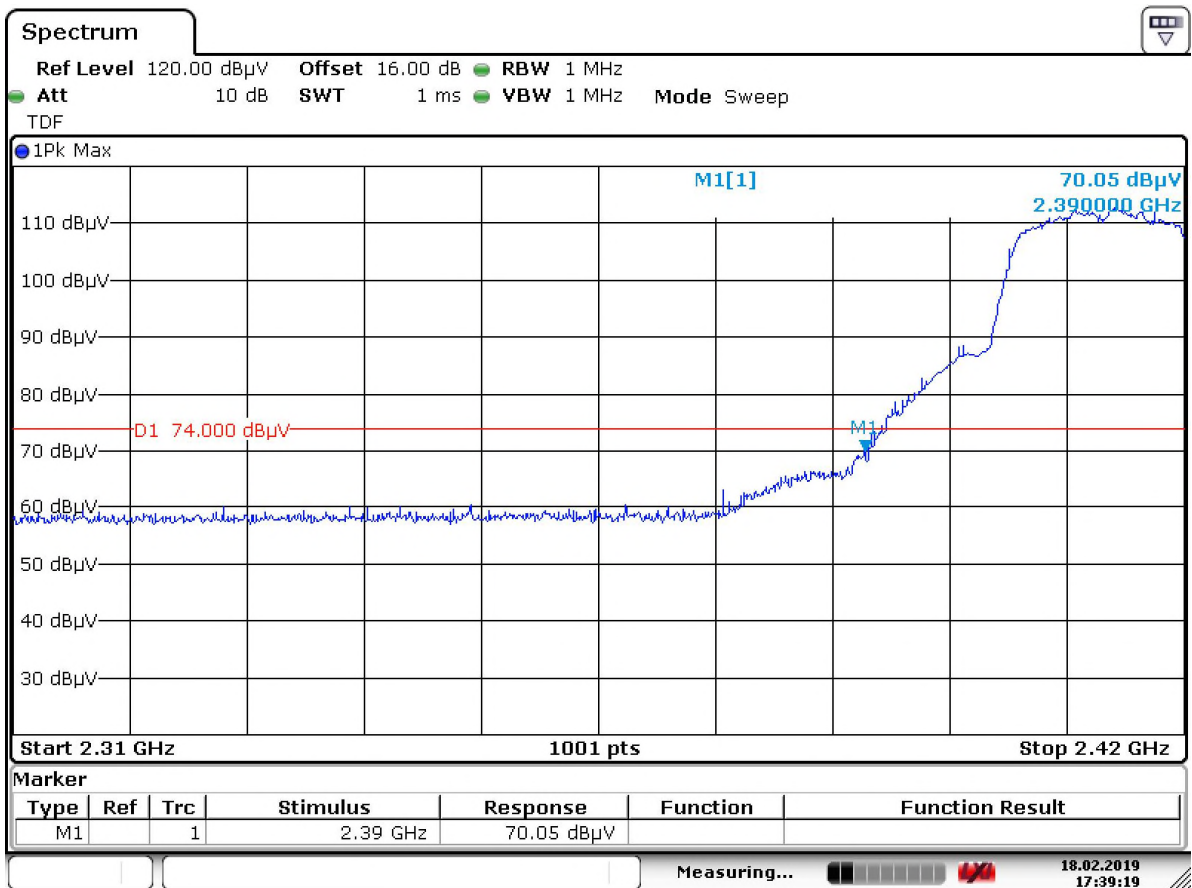
Date: 18.FEB.2019 20:23:53

802.11g

Low Channel (Horizontal)

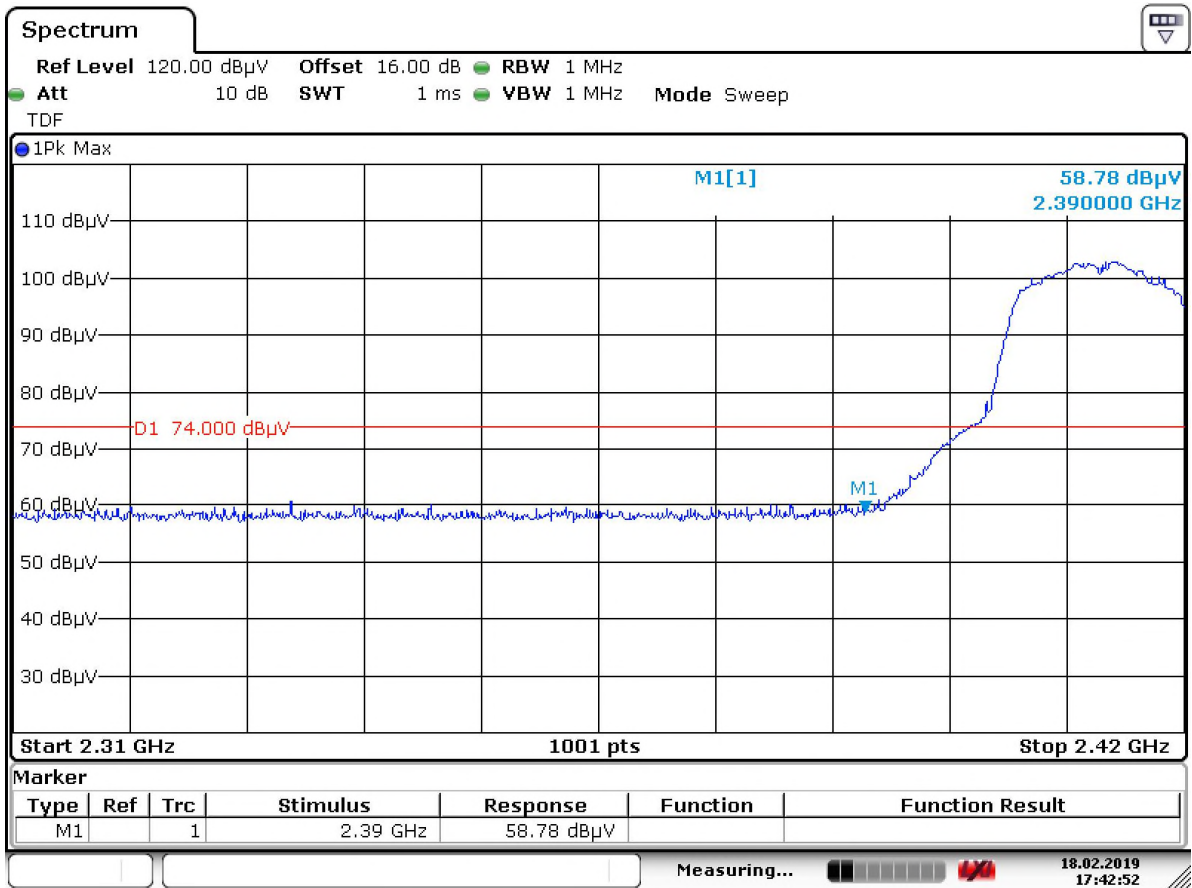


Date: 18.FEB.2019 17:38:48

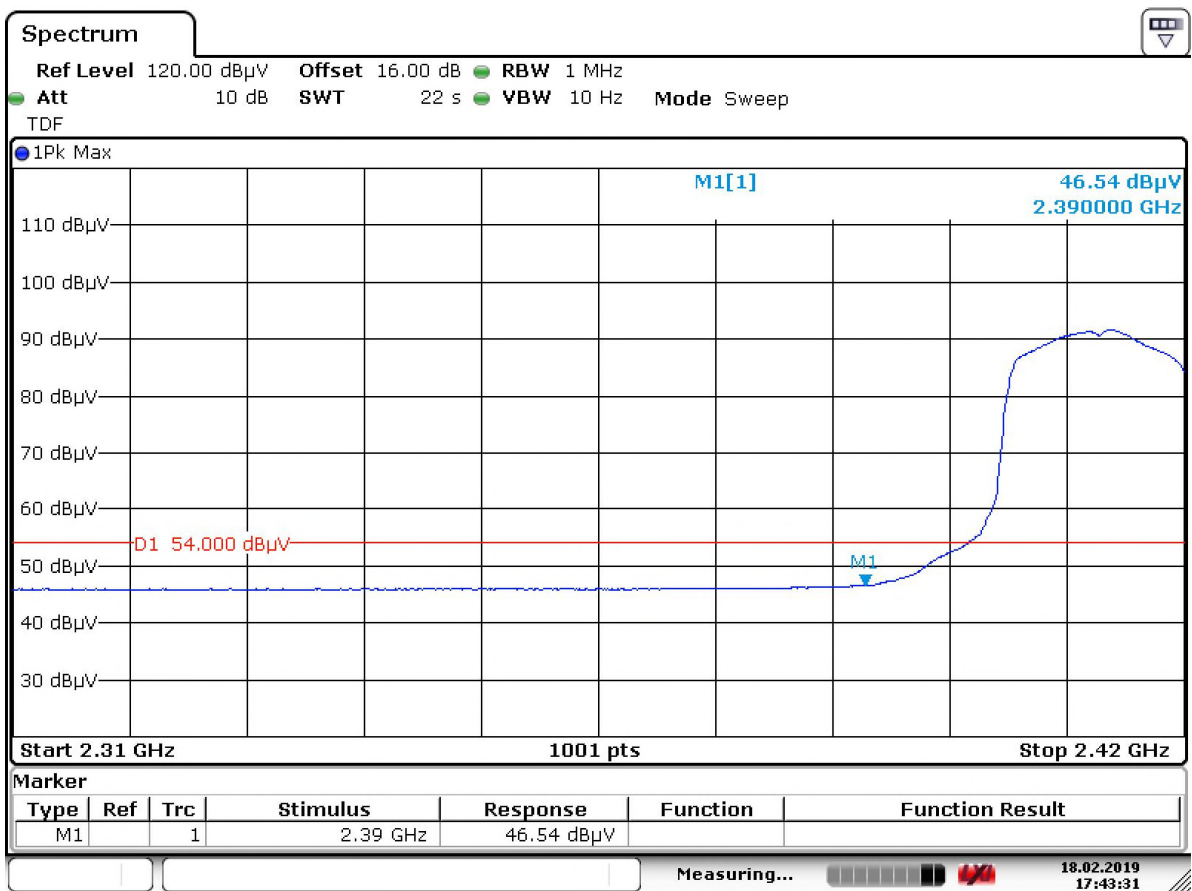


Date: 18.FEB.2019 17:39:19

Low Channel (Vertical)

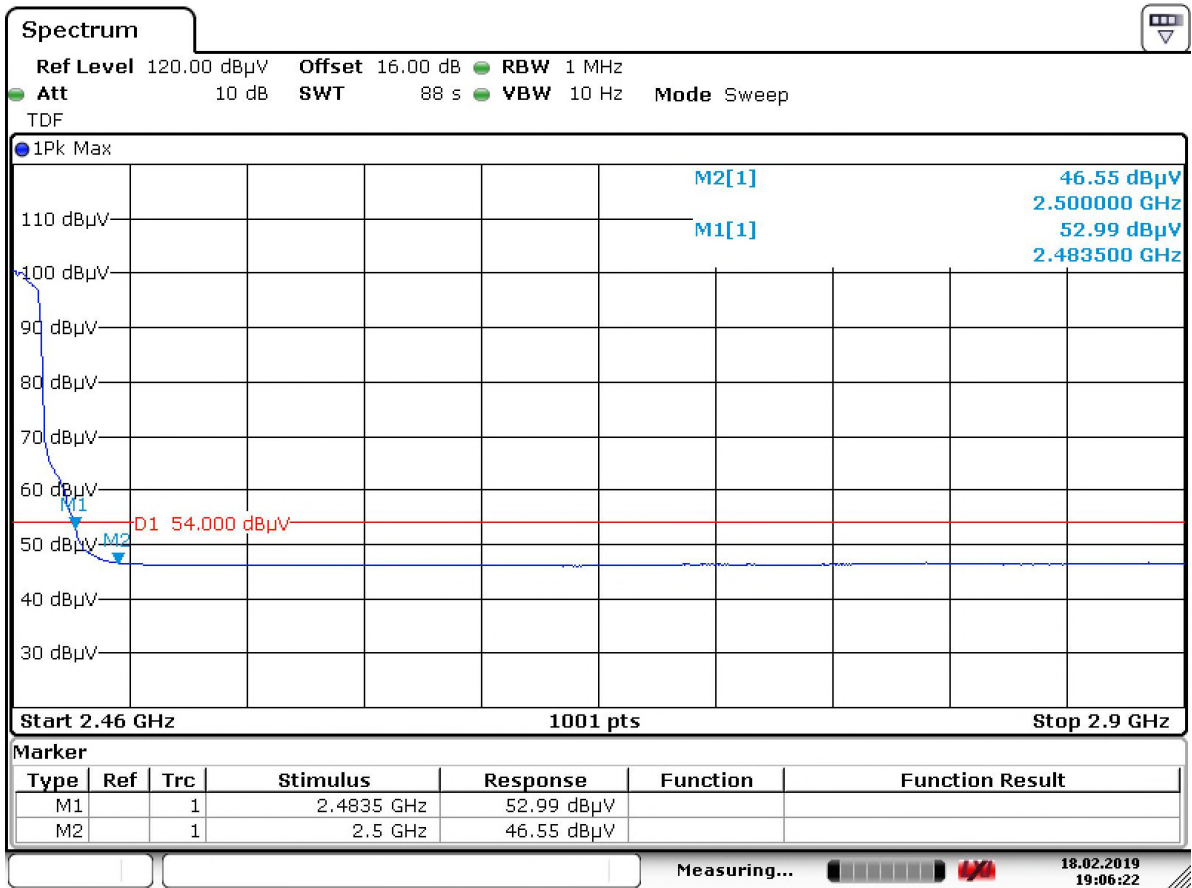


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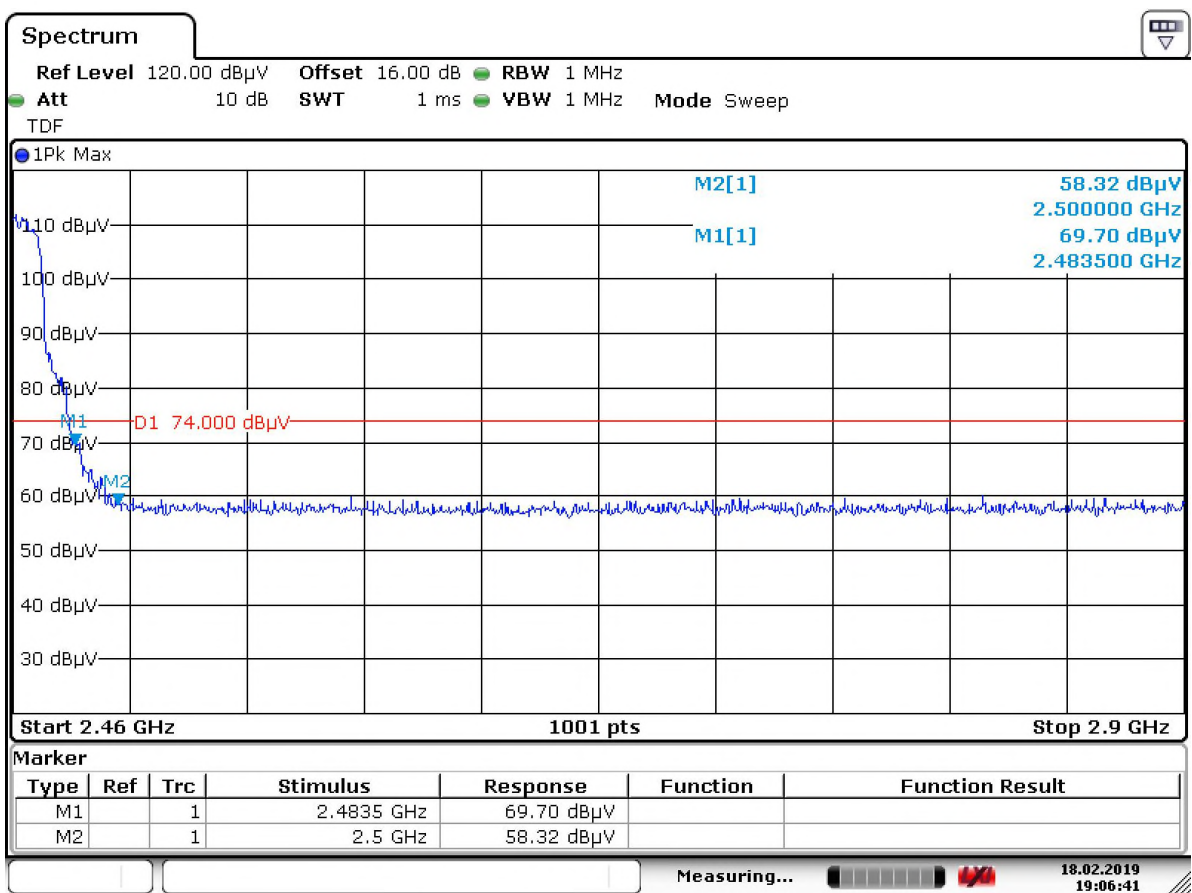


Date: 18.FEB.2019 17:43:31

High Channel (Horizontal)

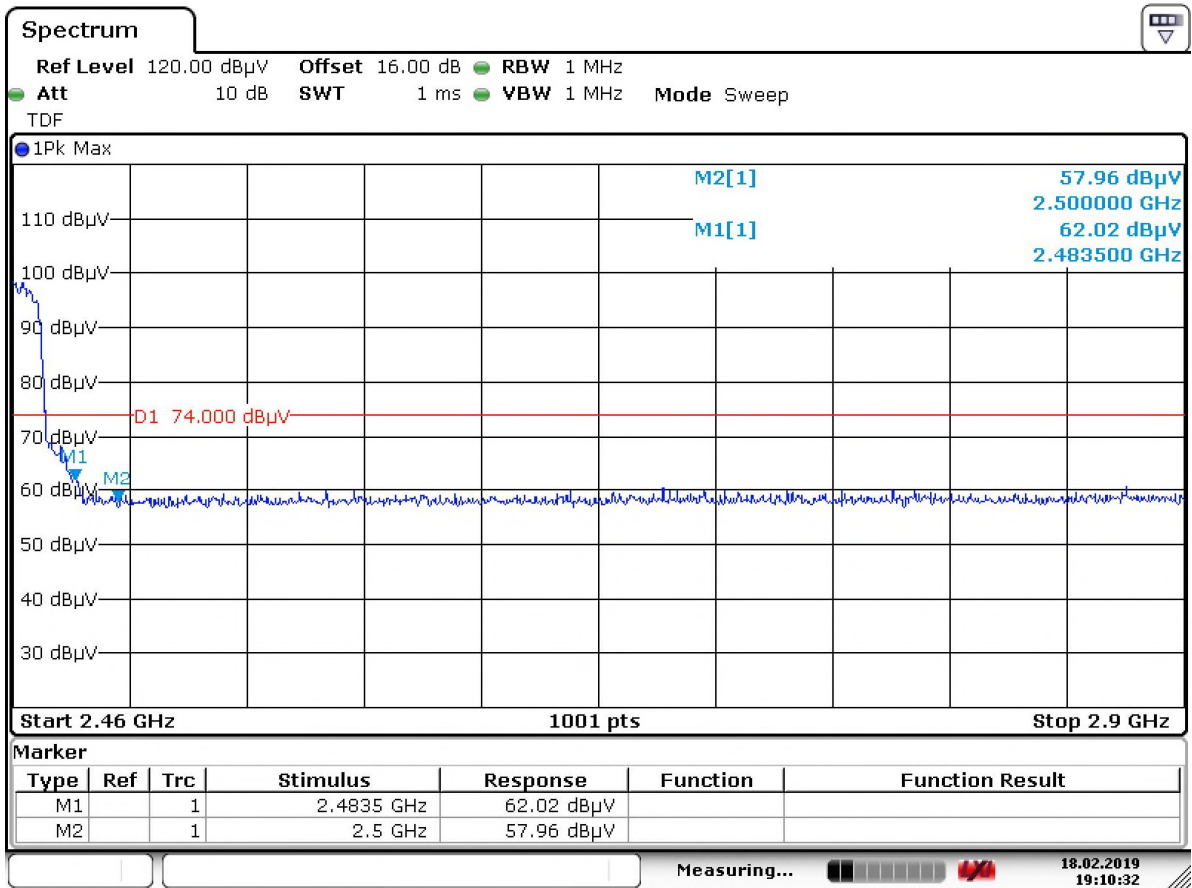


Date: 18.FEB.2019 19:06:23

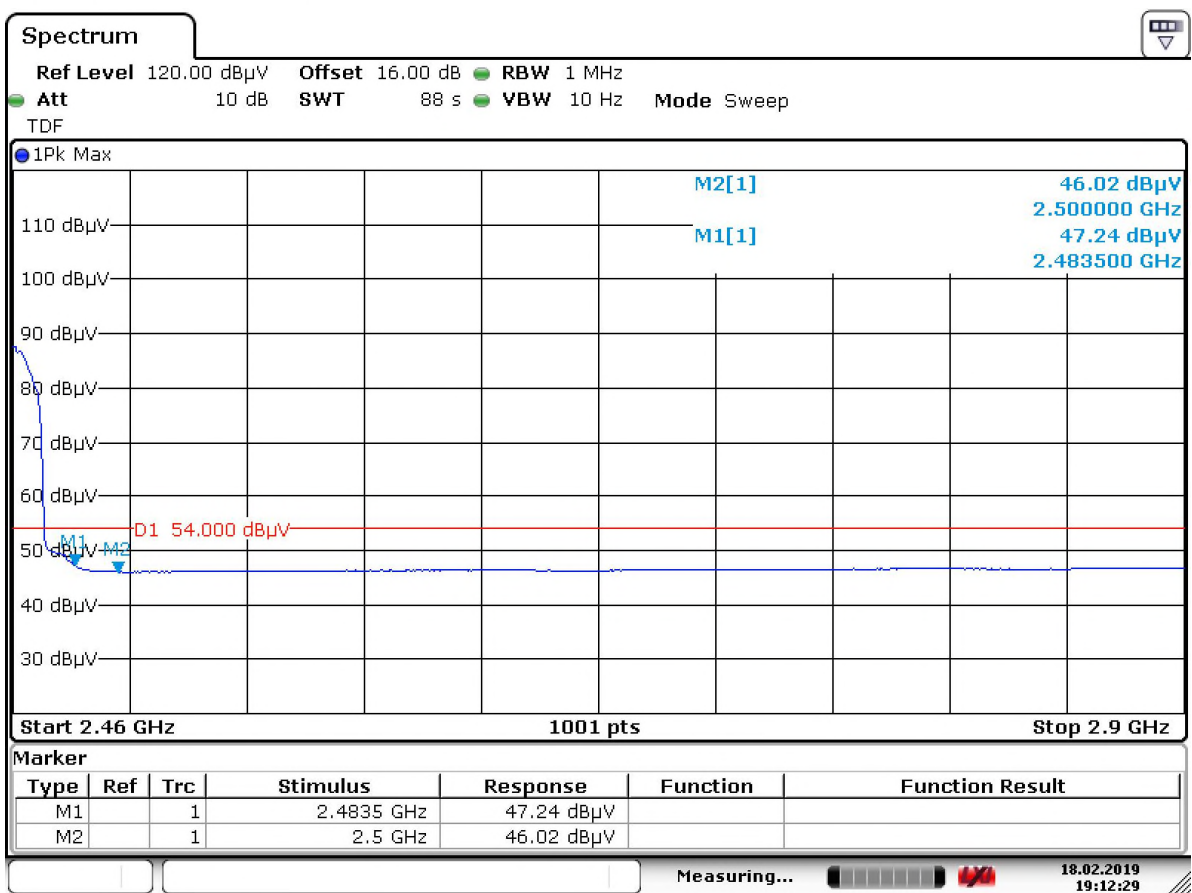


Date: 18.FEB.2019 19:06:42

High Channel (Vertical)

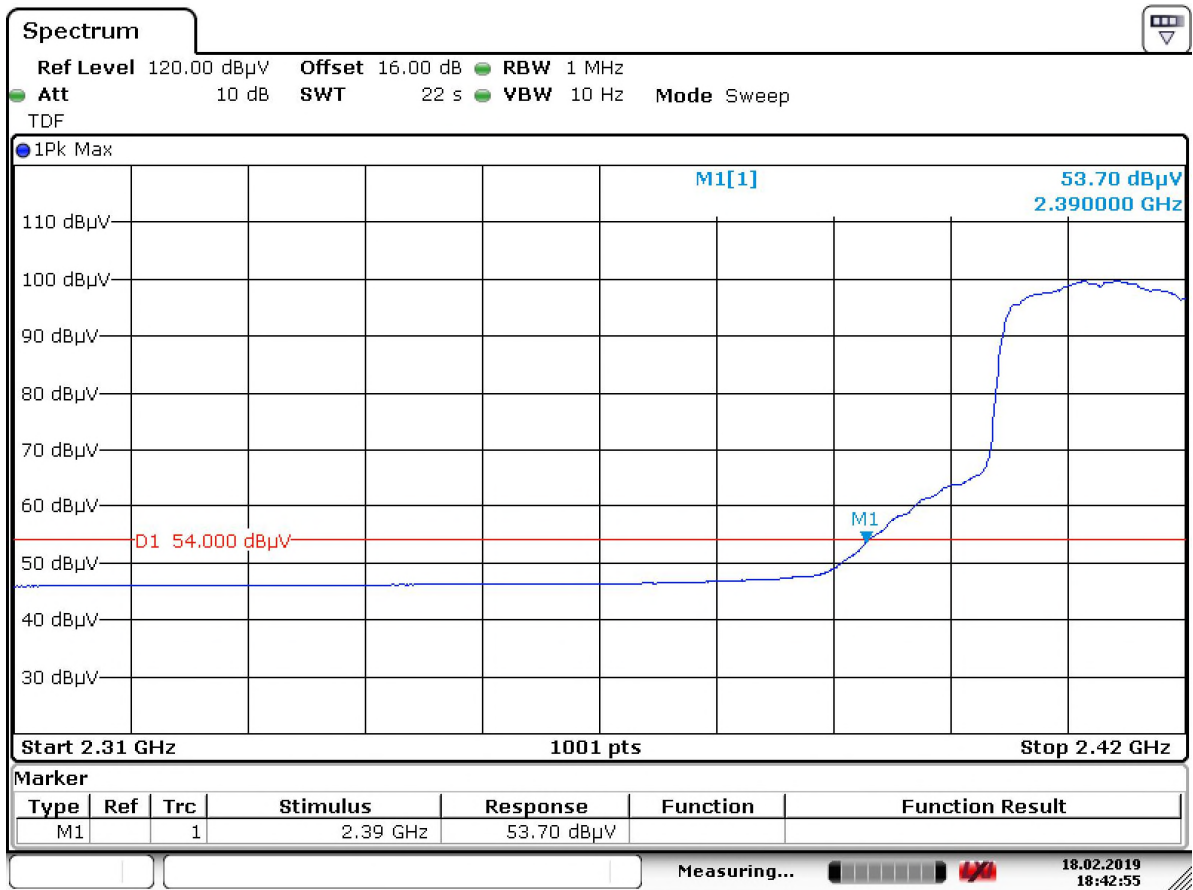


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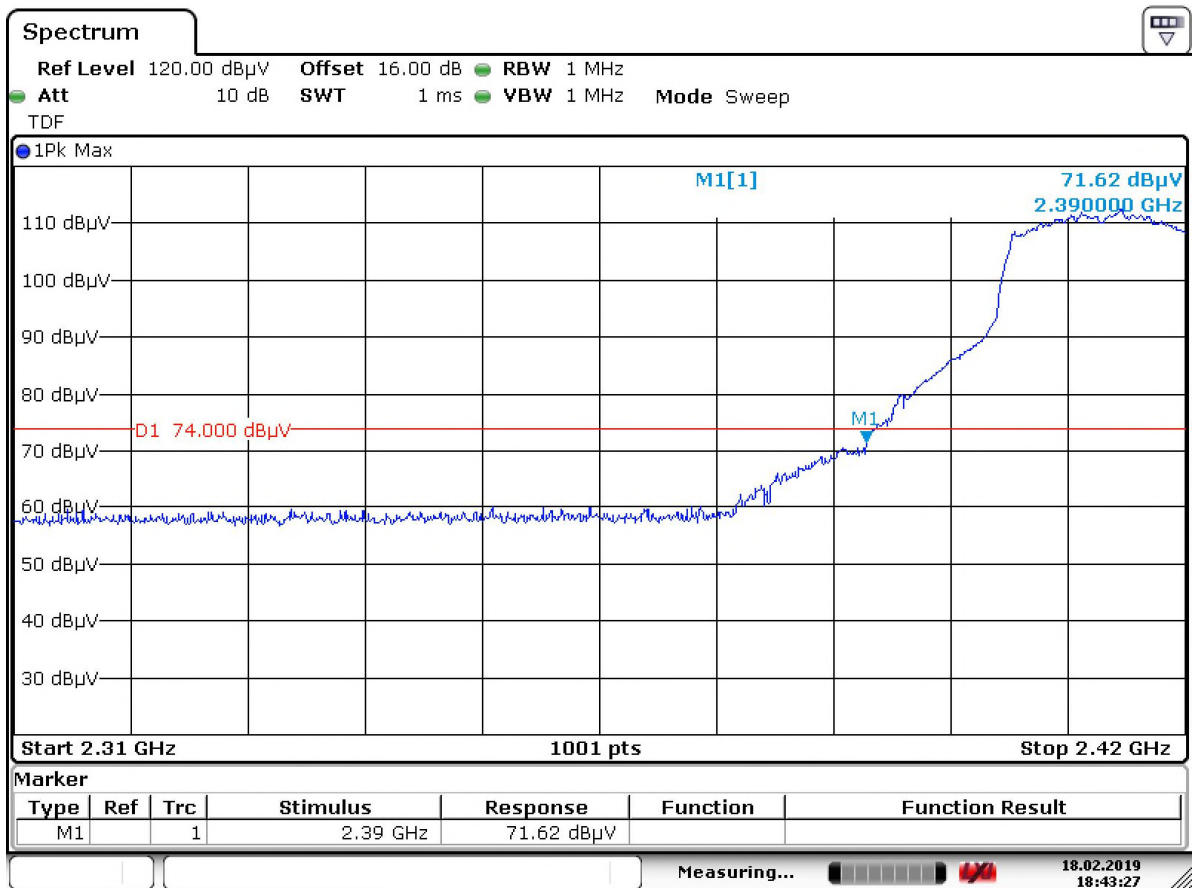


Date: 18.FEB.2019 19:12:29

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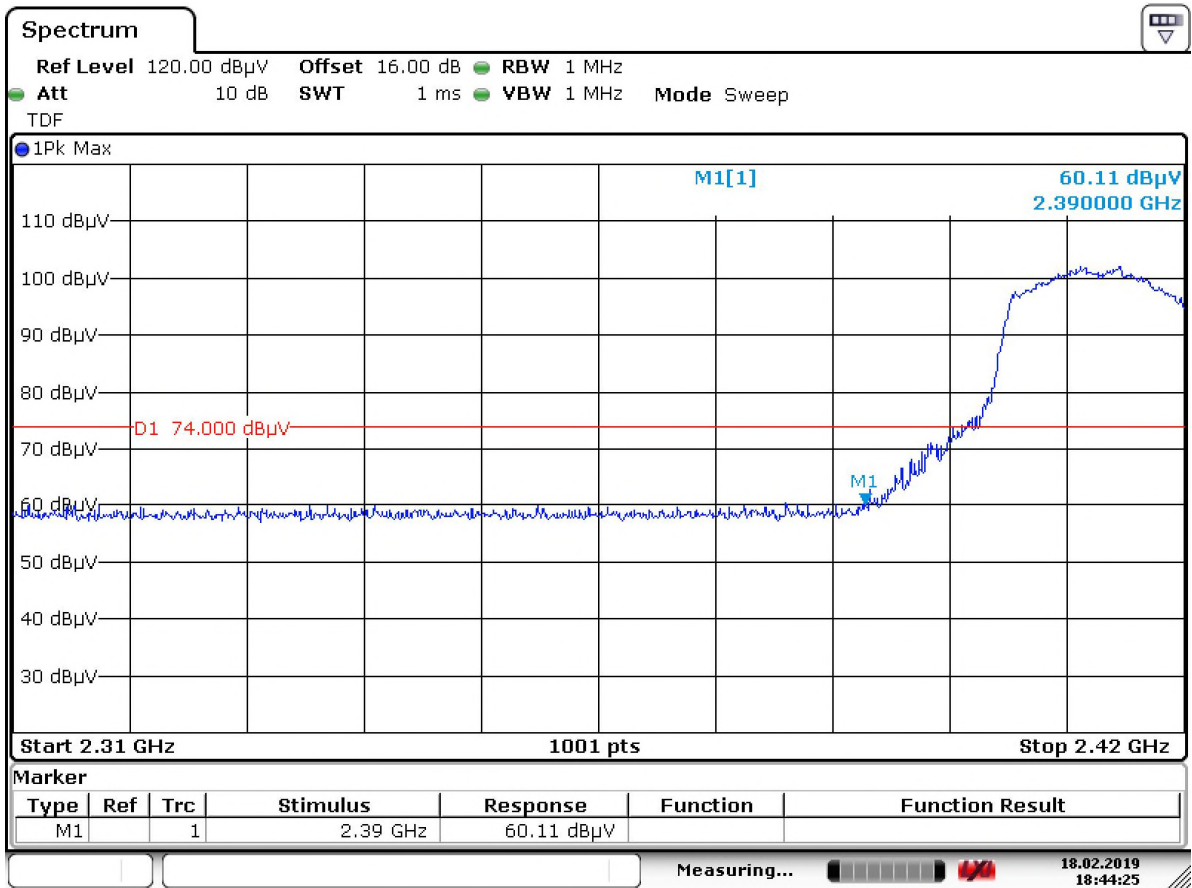


Date: 18.FEB.2019 18:42:55

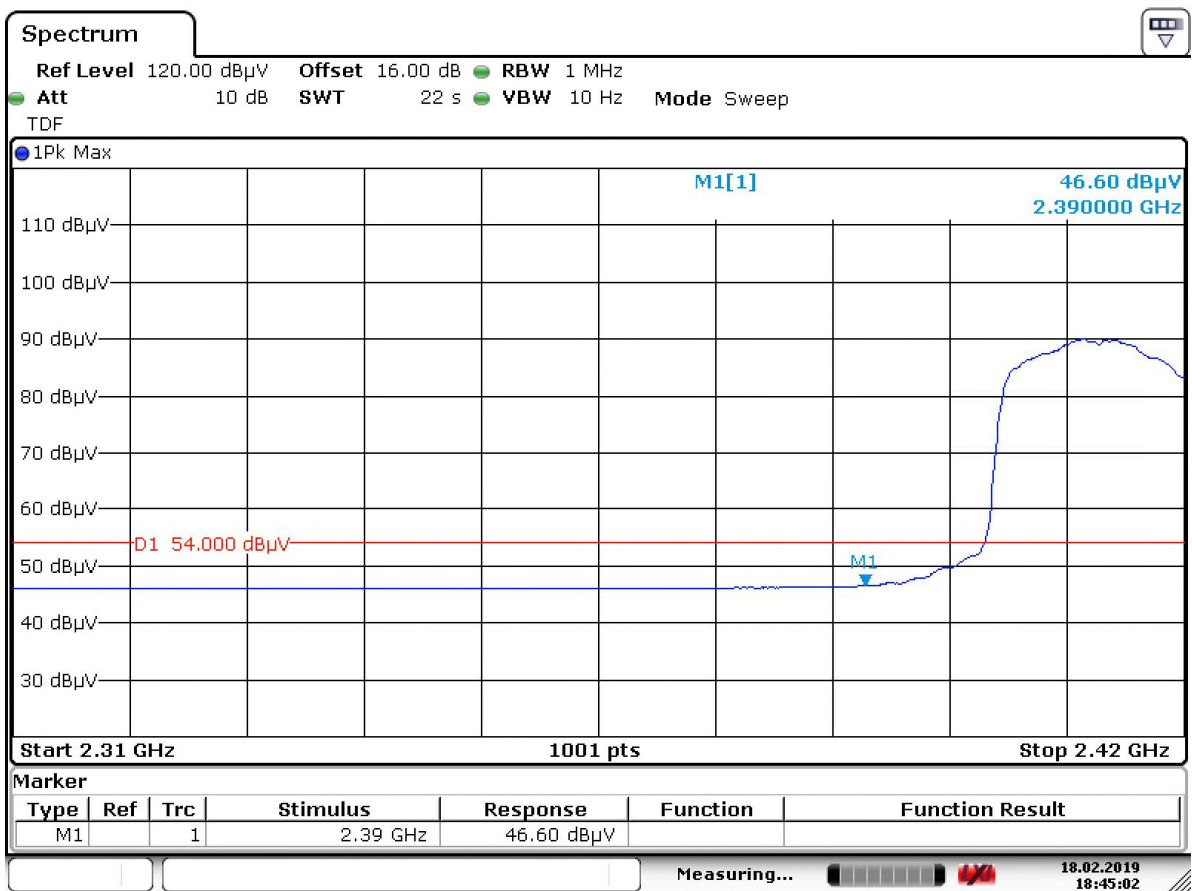


Date: 18.FEB.2019 18:43:27

Low Channel (Vertical)

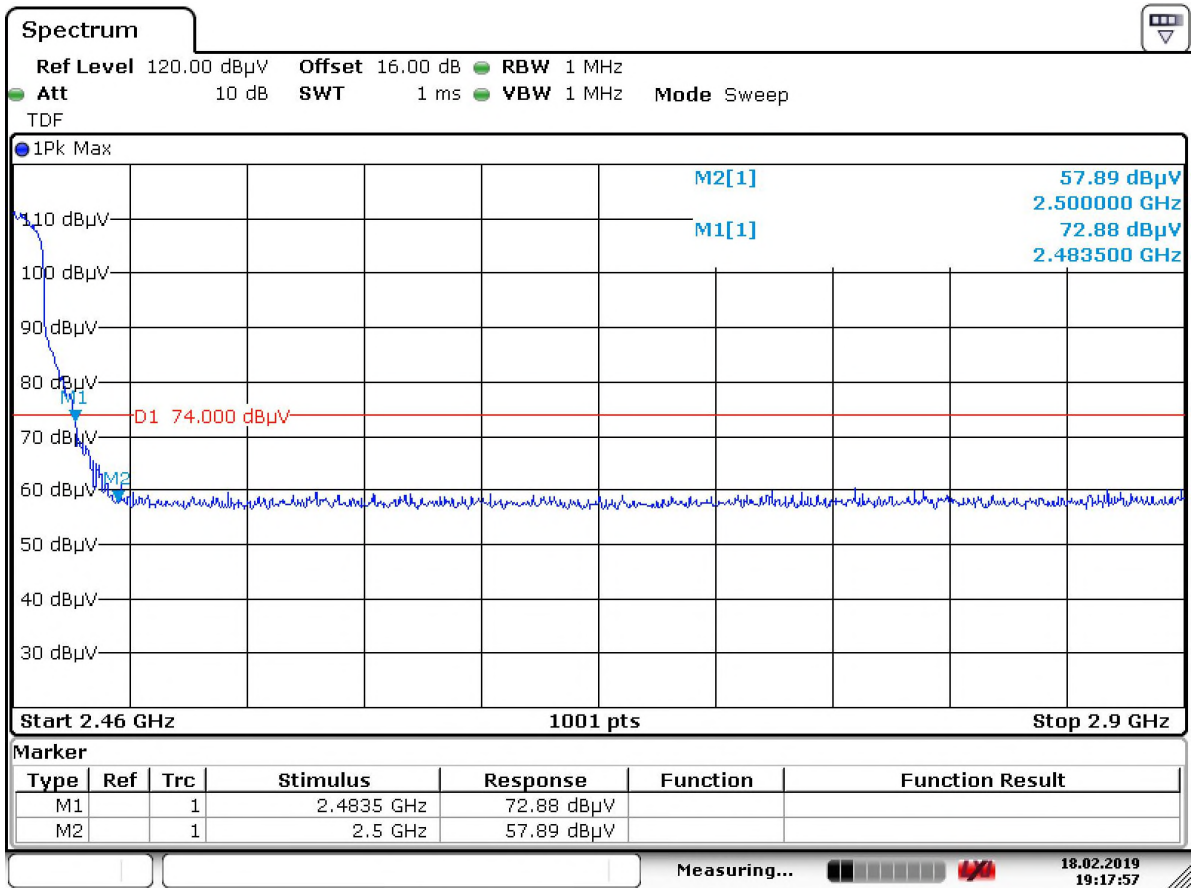


Date: 18.FEB.2019 18:44:25

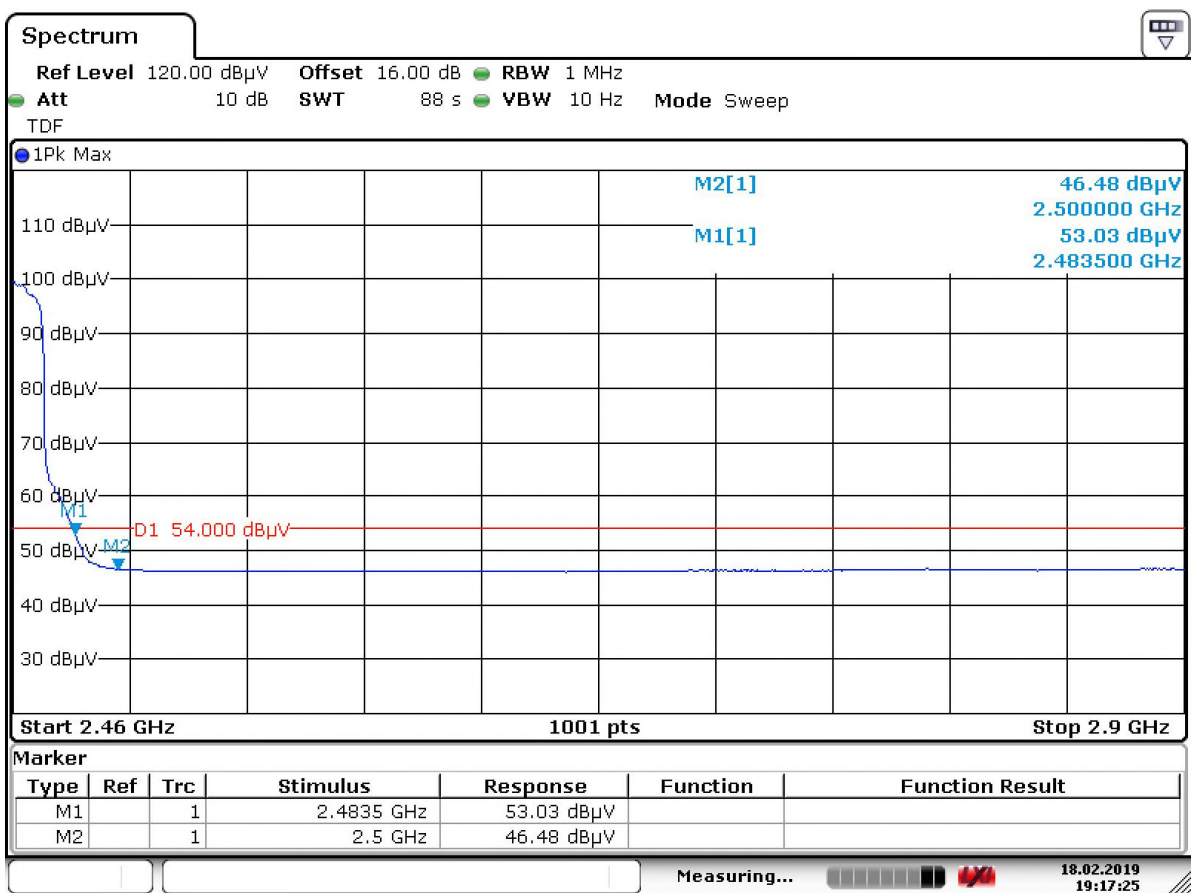


Date: 18.FEB.2019 18:45:02

High Channel (Horizontal)

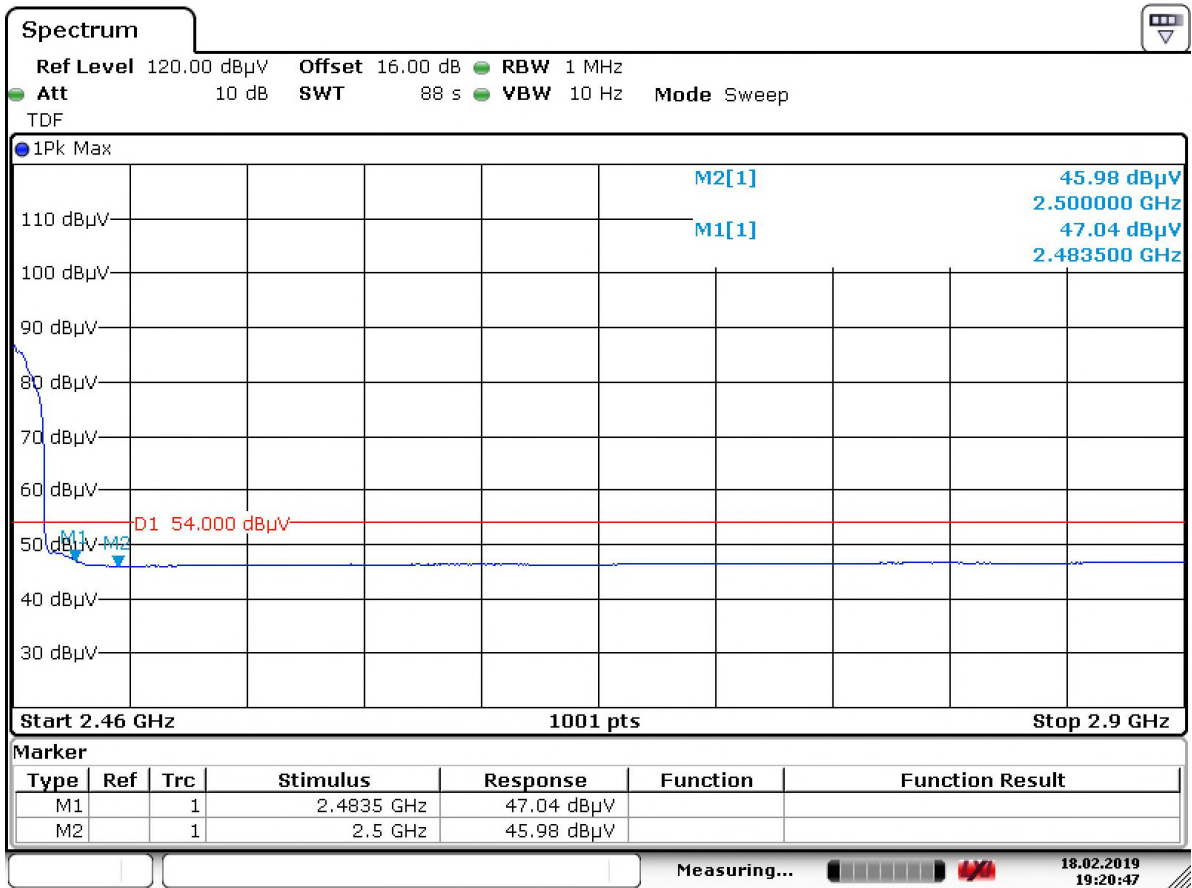


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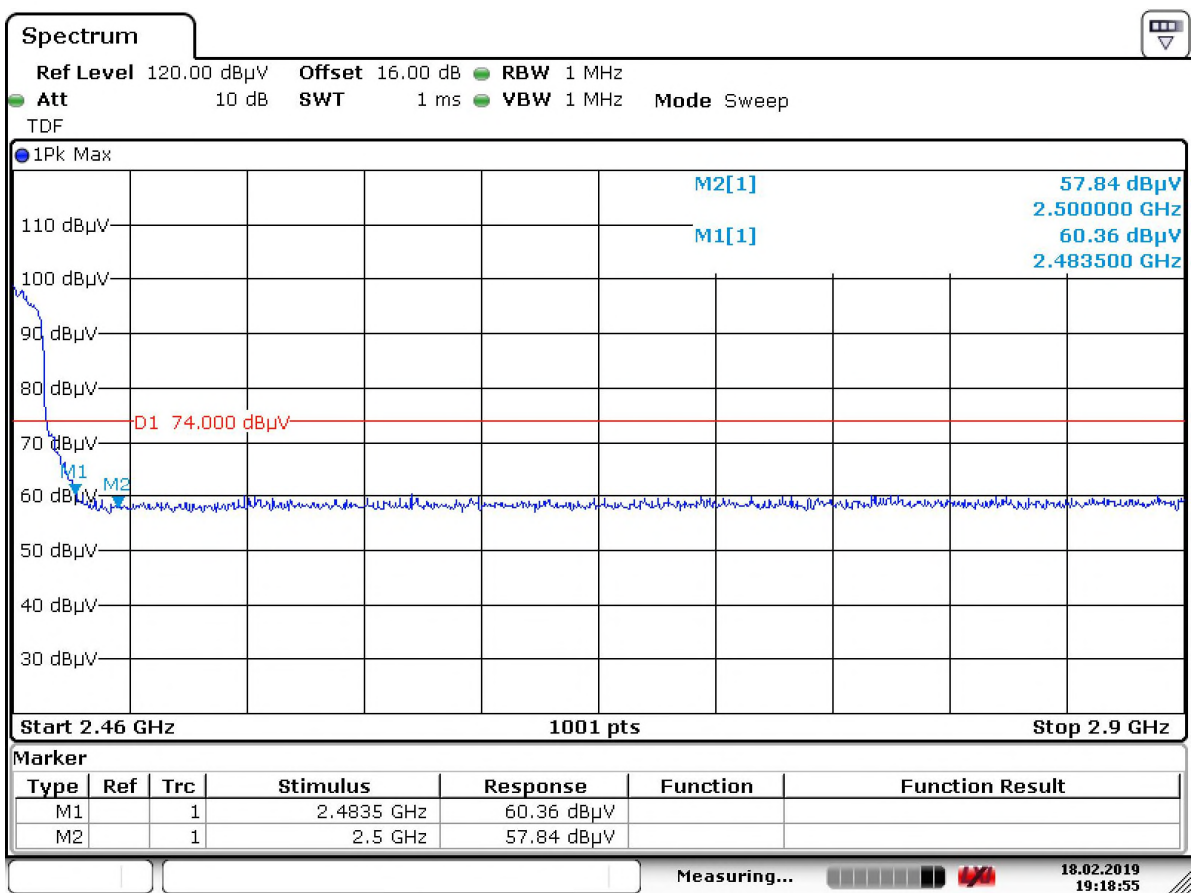


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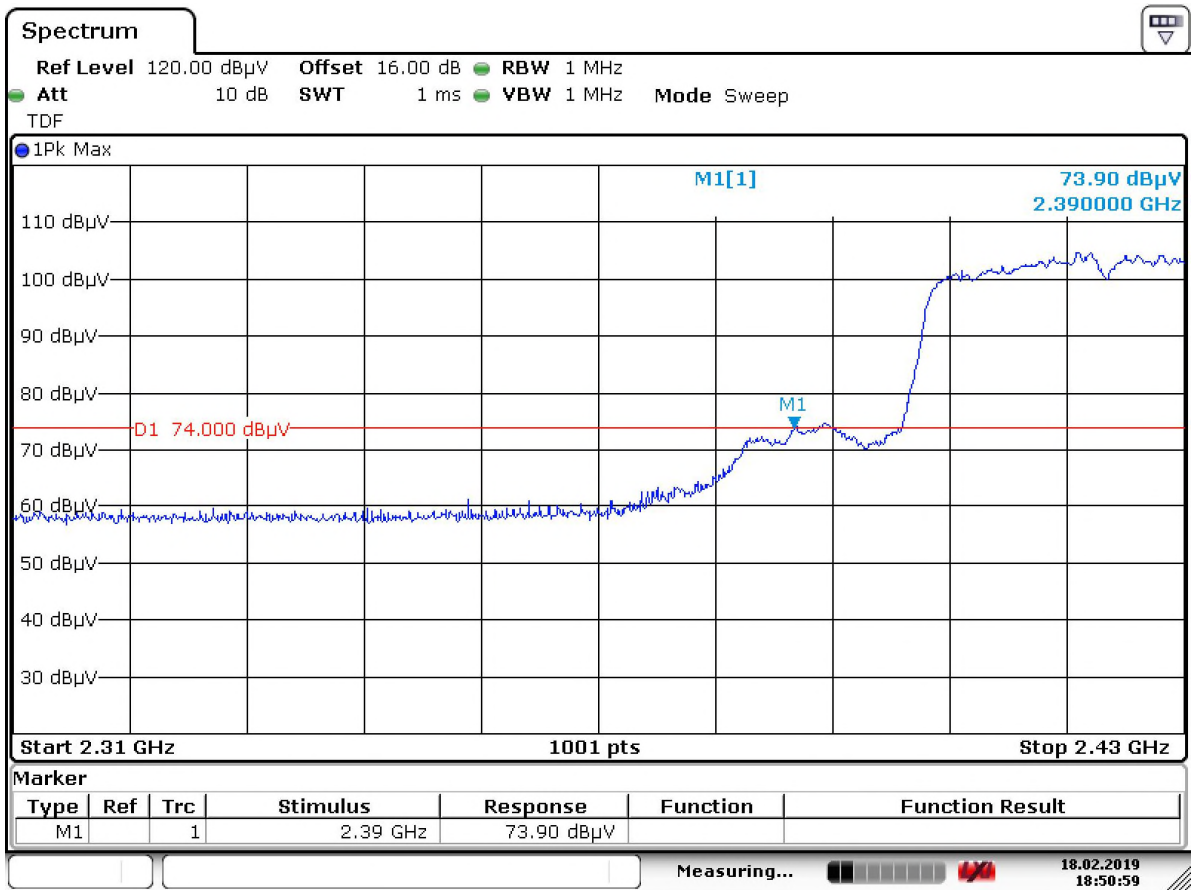
High Channel (Vertical)



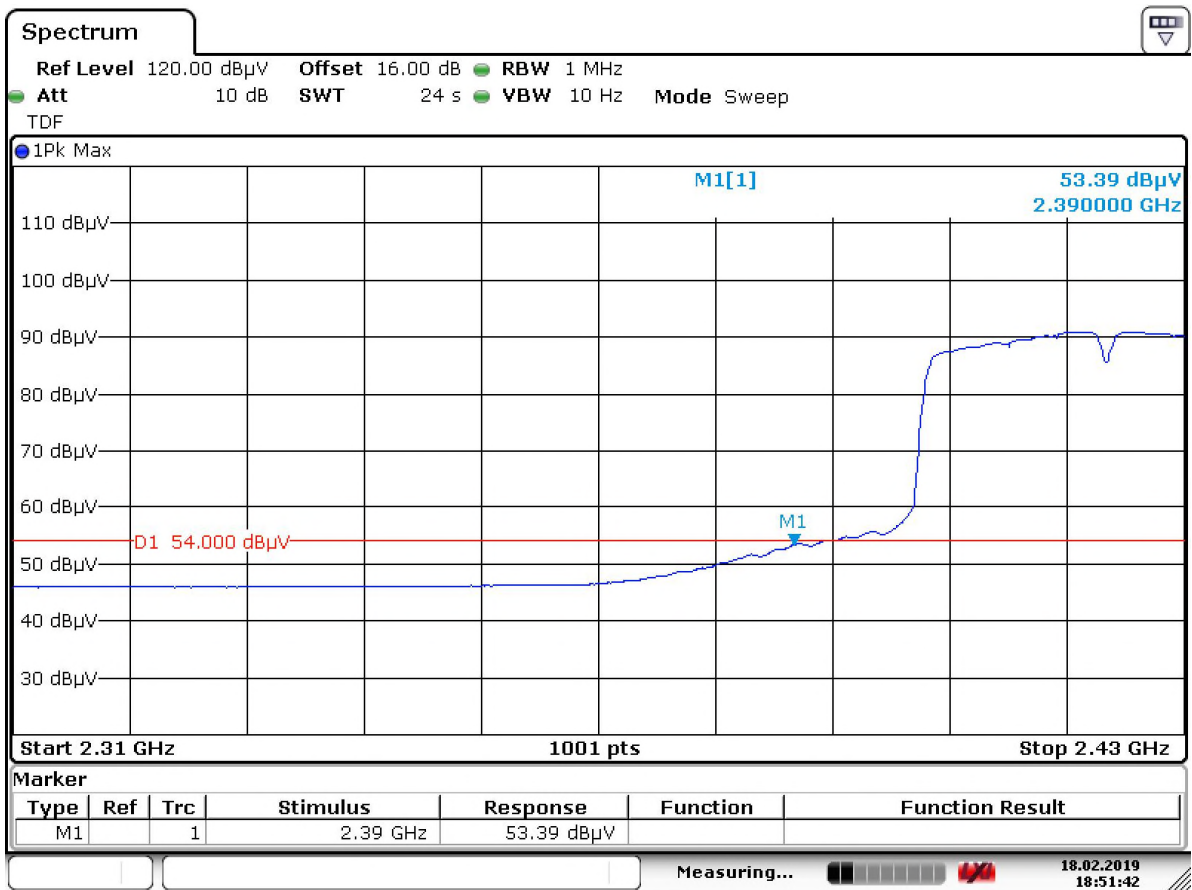
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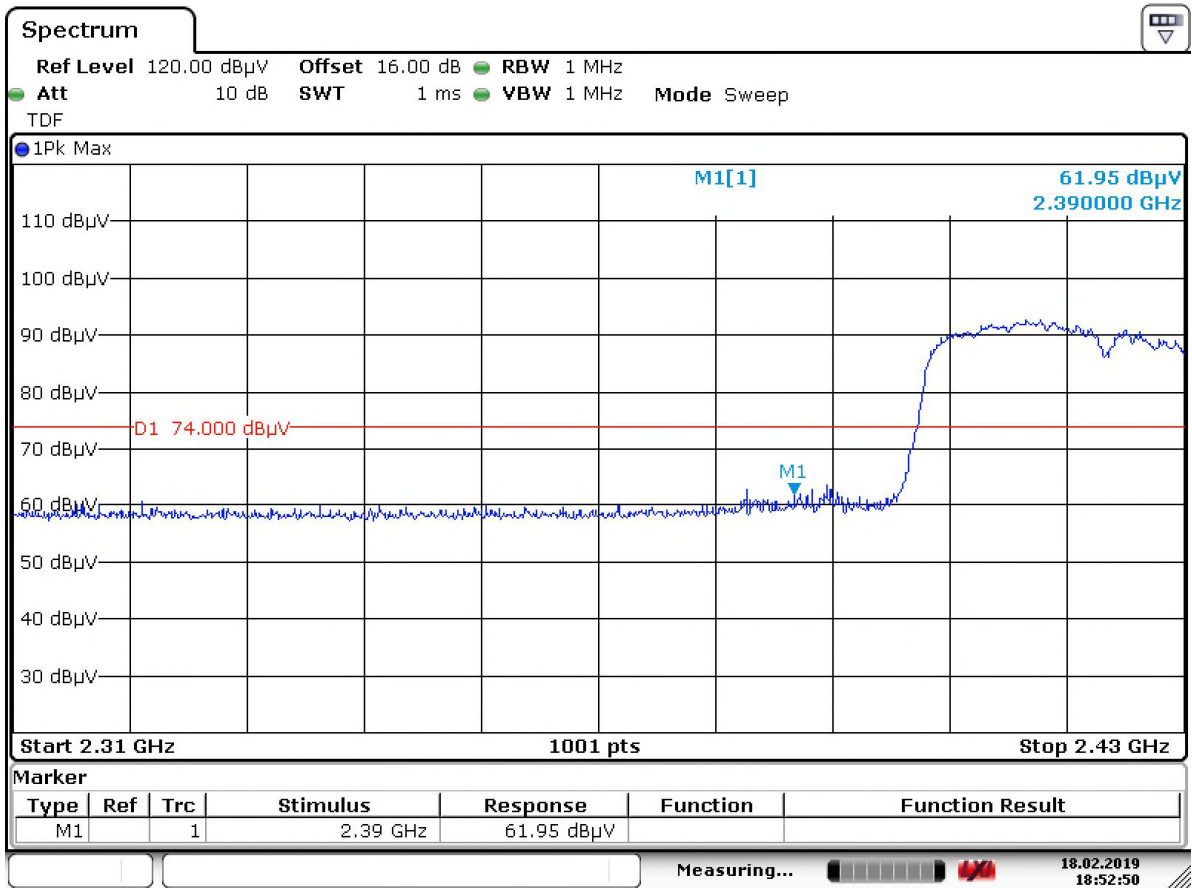


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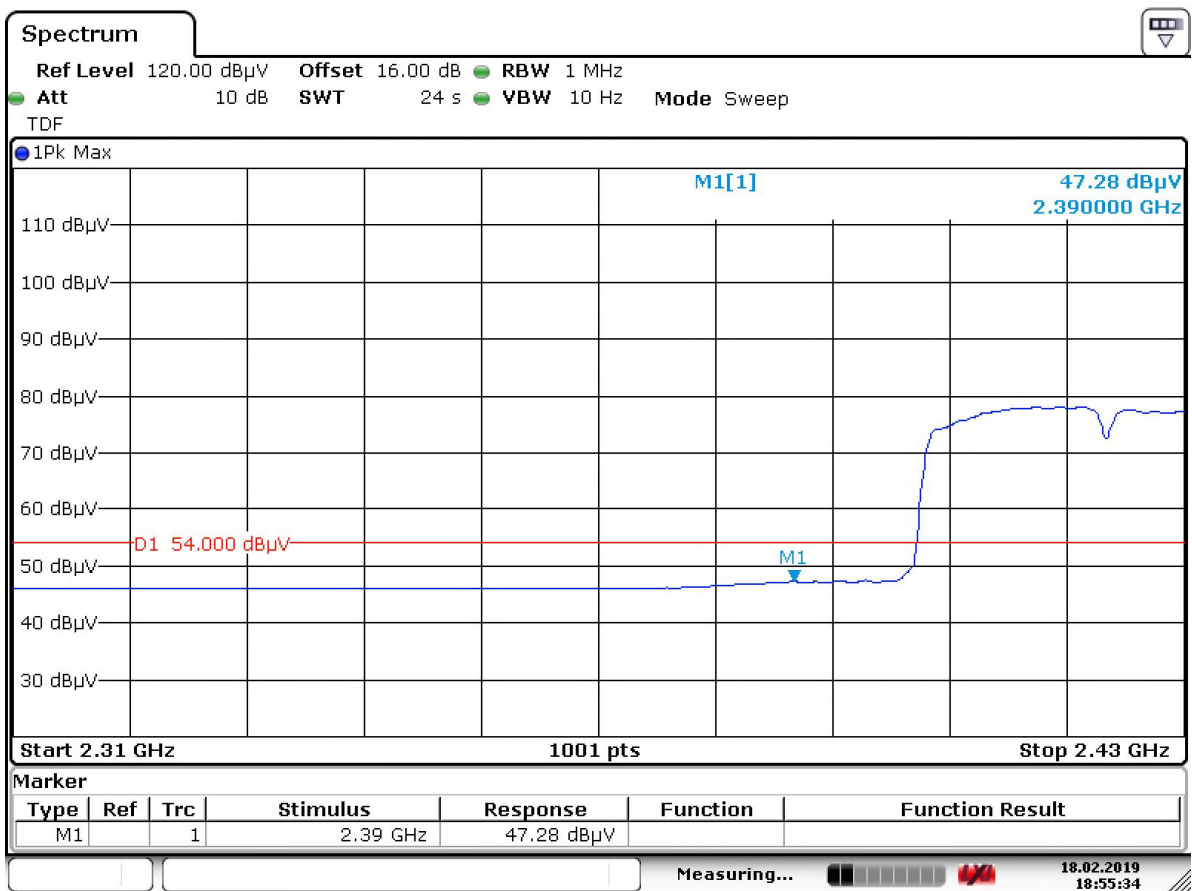


Date: 18.FEB.2019 18:51:42

Low Channel (Vertical)

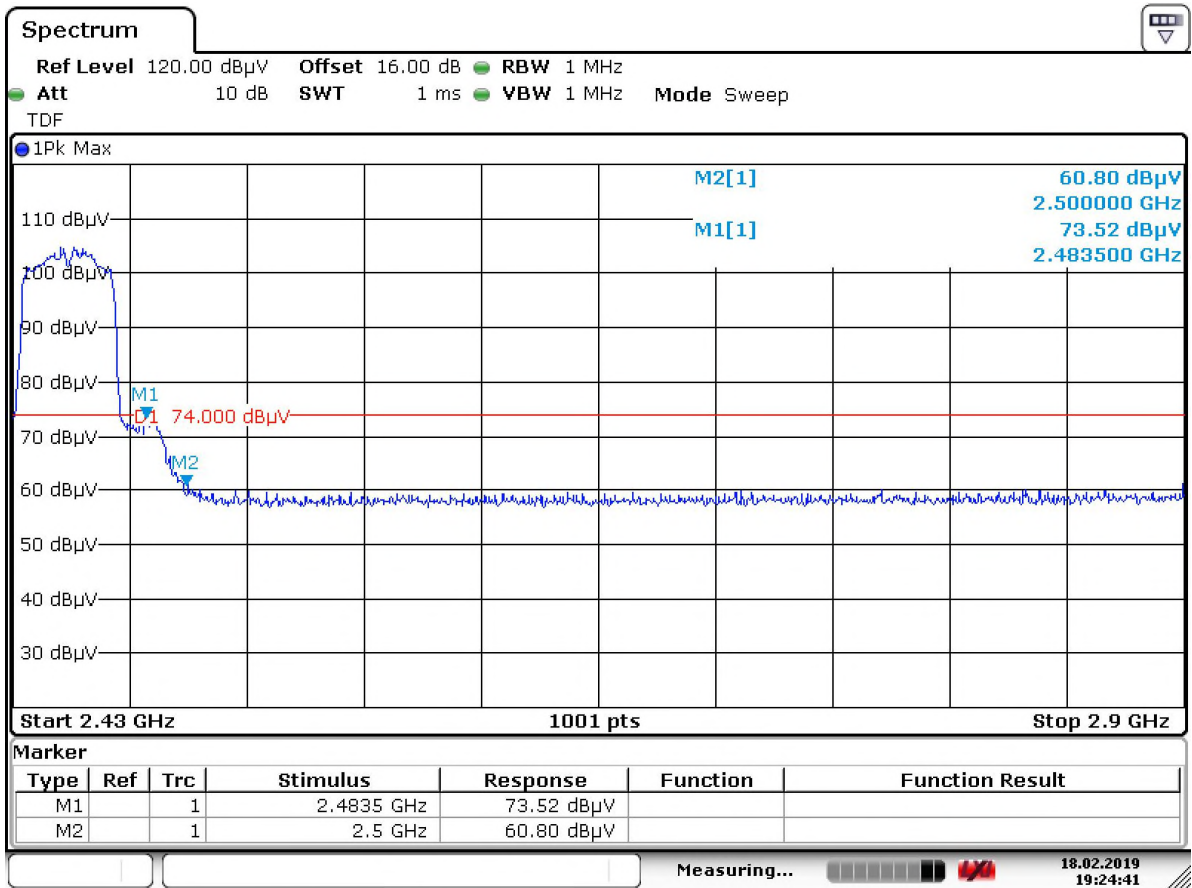


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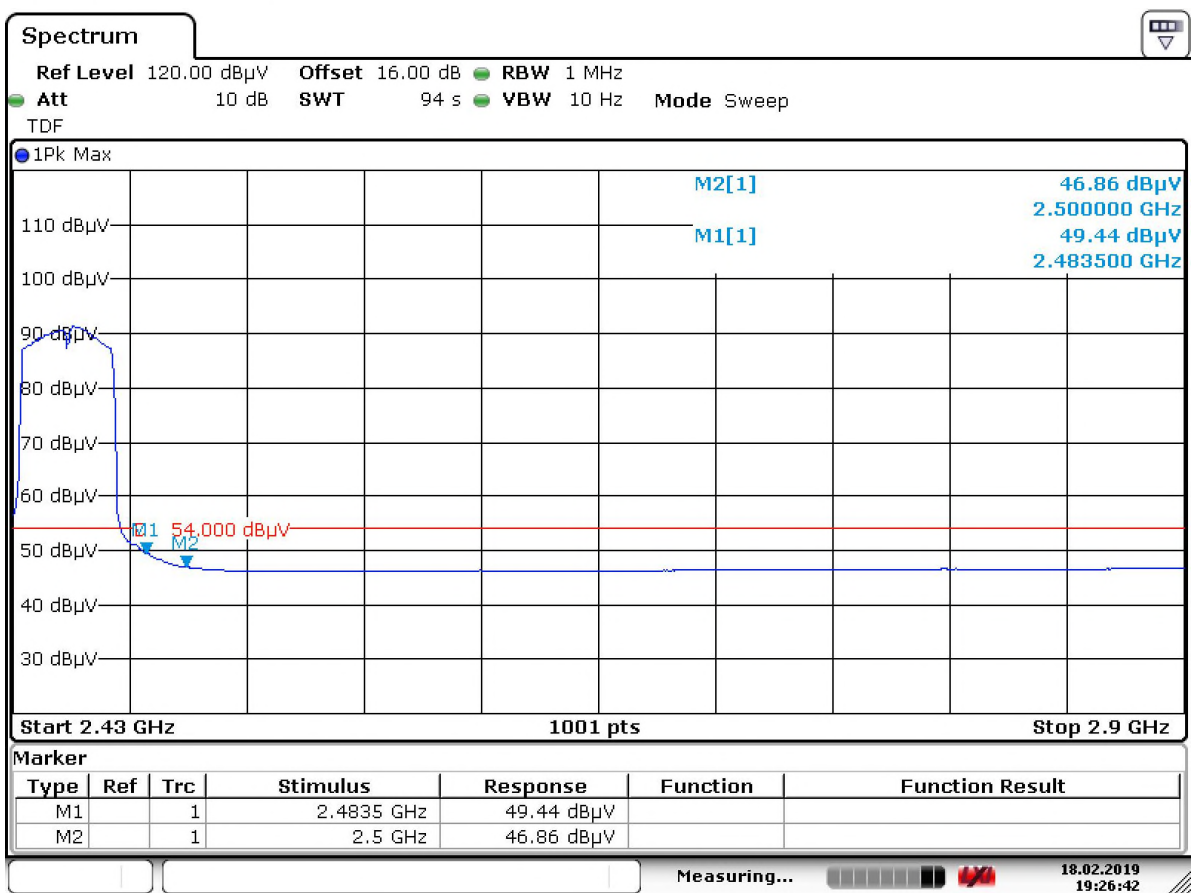


Date: 18.FEB.2019 18:55:35

High Channel (Horizontal)

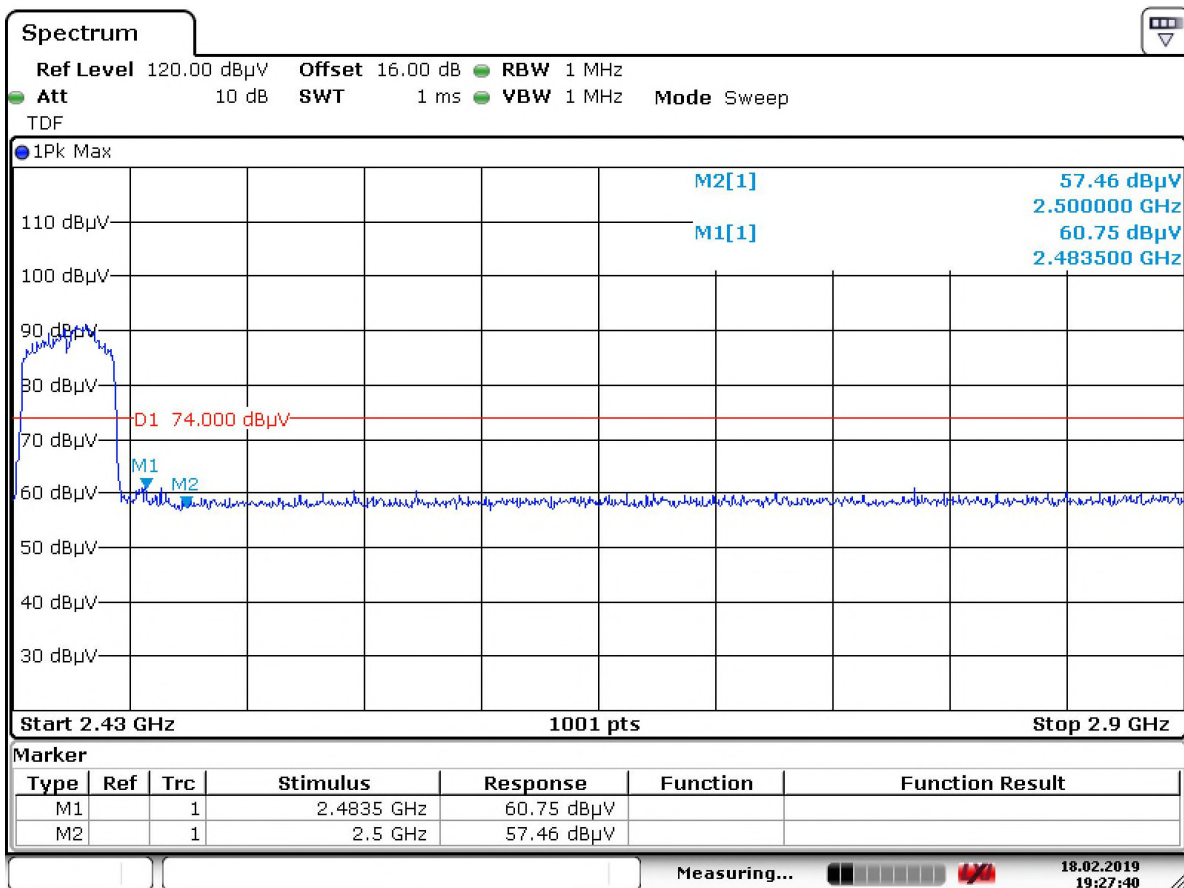


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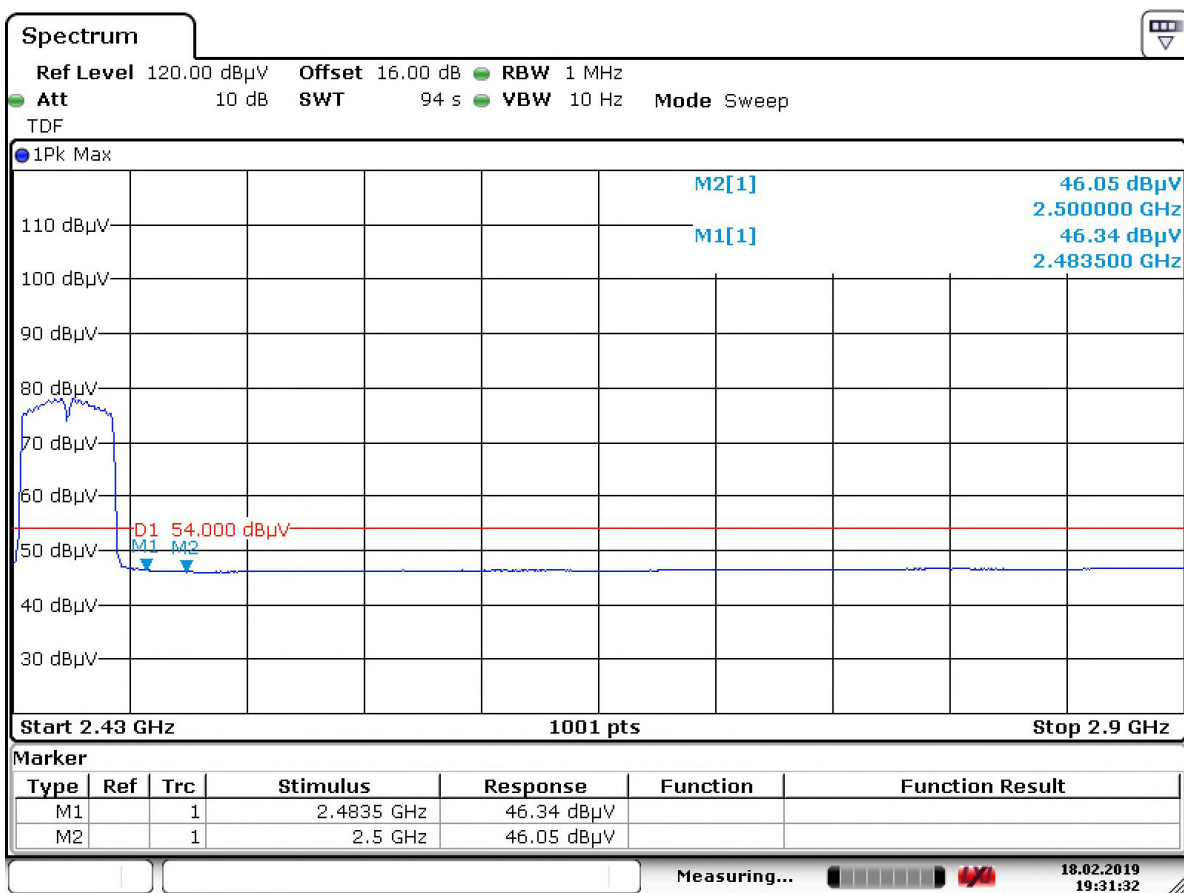


Date: 18.FEB.2019 19:26:42

High Channel (Vertical)



Date: 18.FEB.2019 19:27:40



Date: 18.FEB.2019 19:31:33

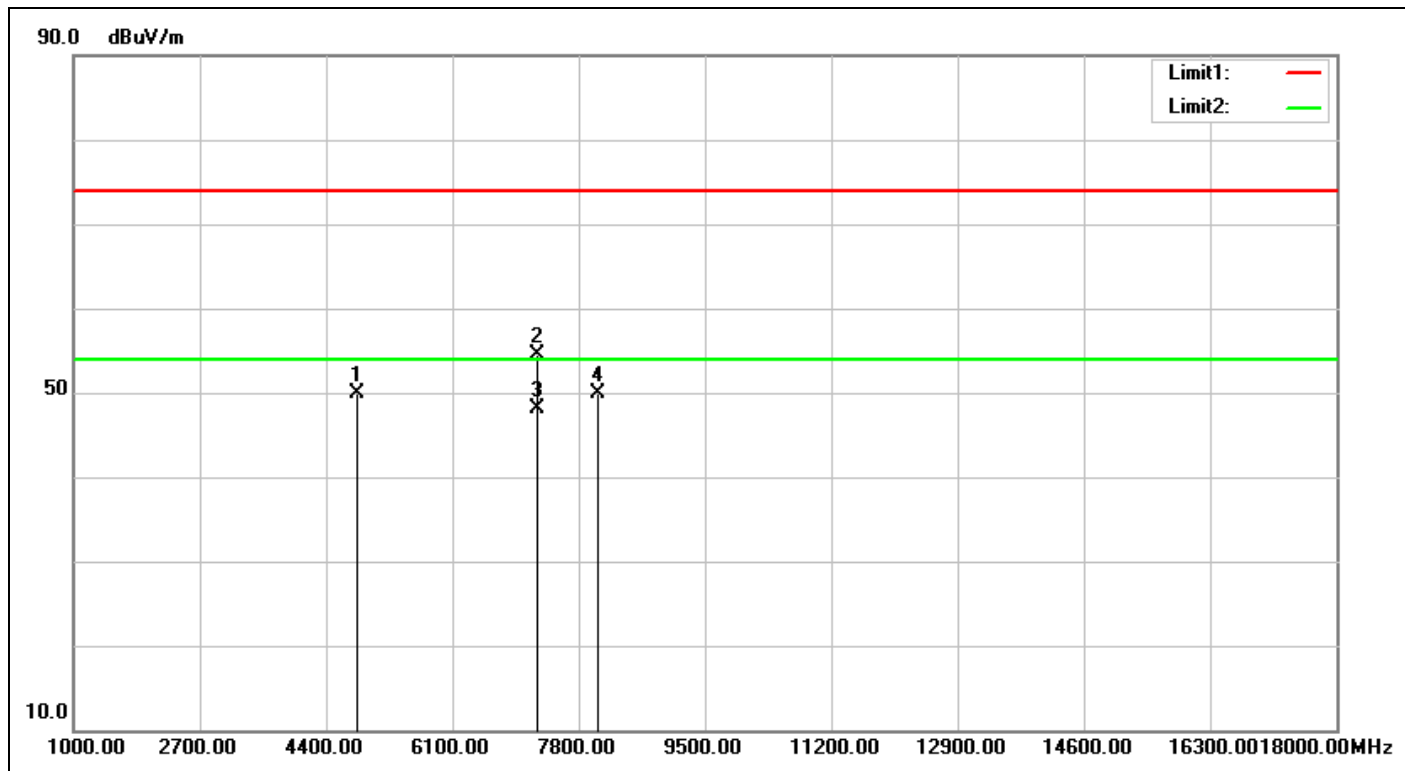
Spurious Emissions, TX Mode, 1-18G



TUV Rheinland Taiwan Ltd.

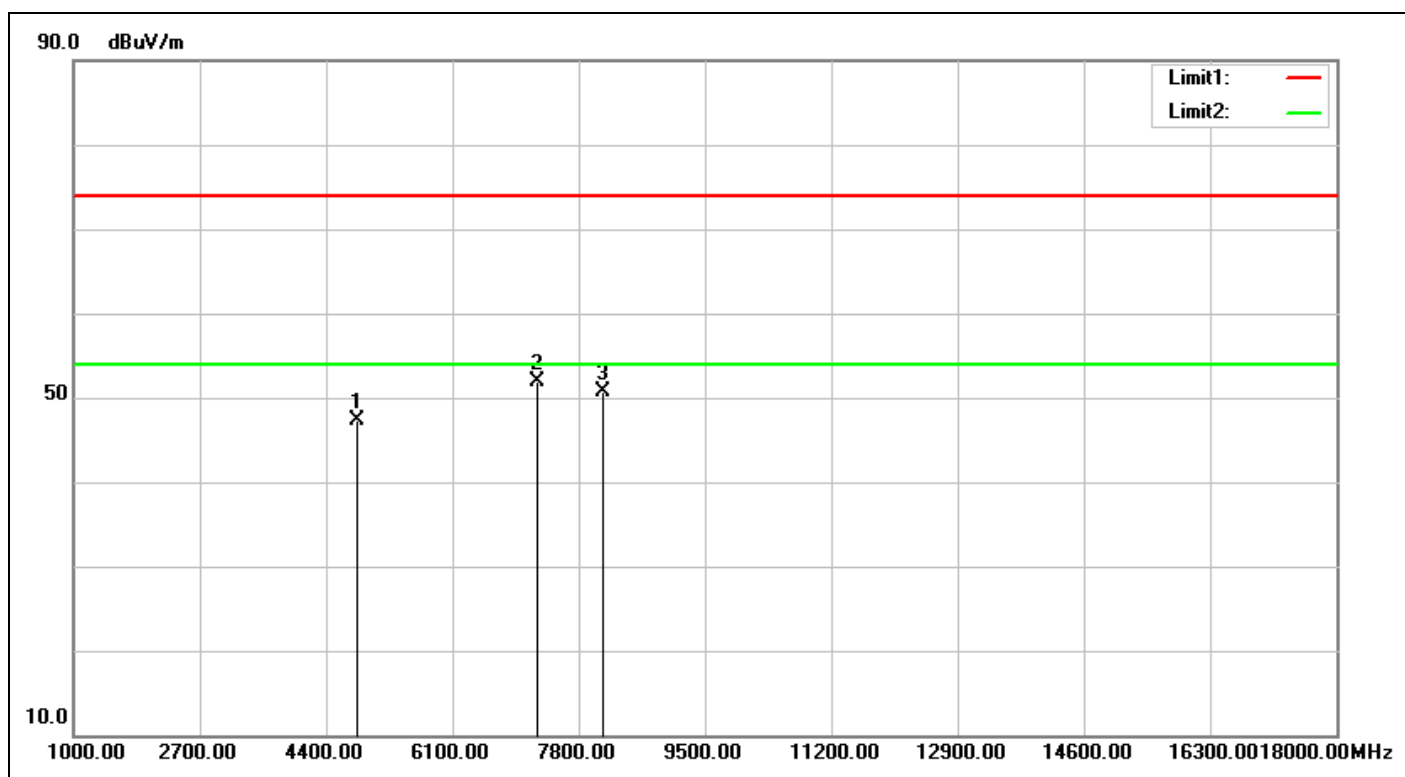
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



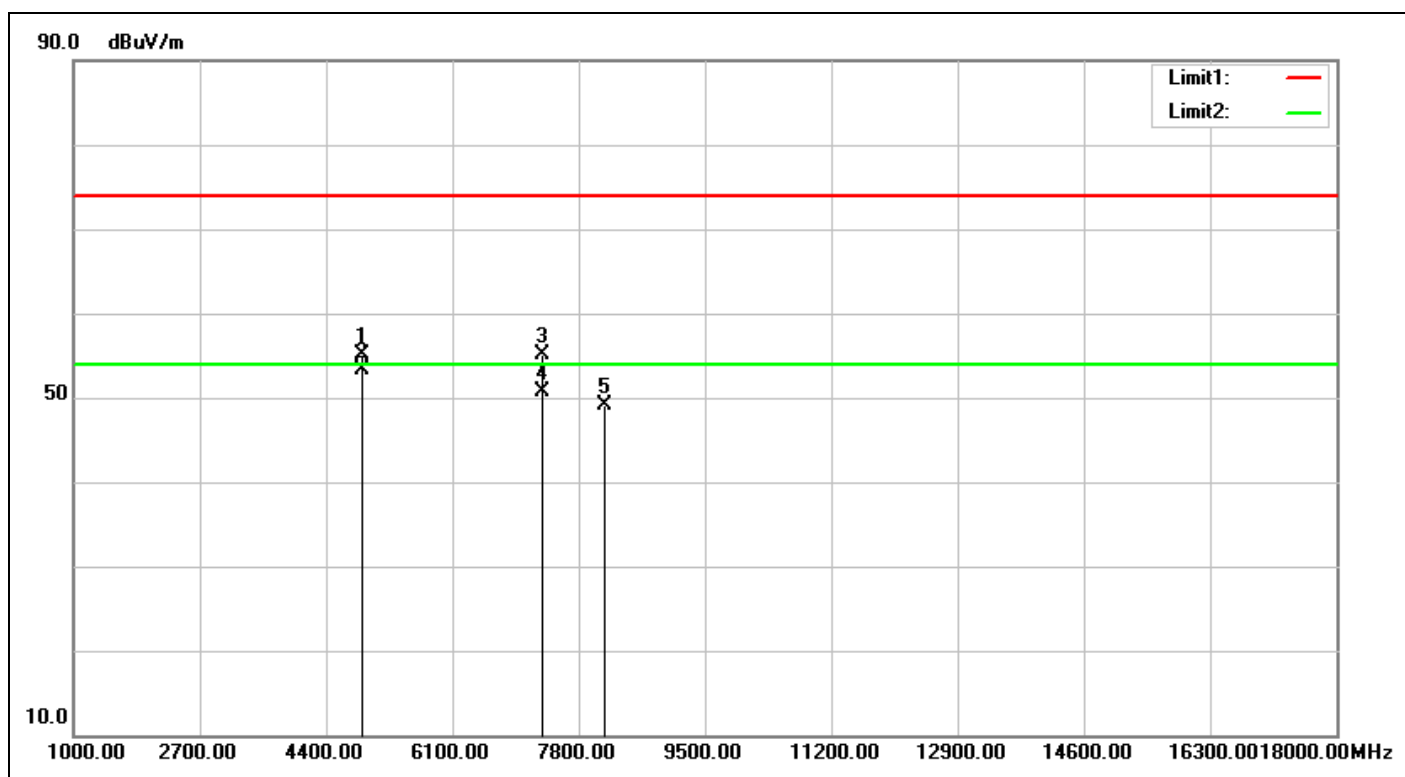
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 20:14:33
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2412-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2A		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.58	52.52	49.94	74.00	-24.06	peak	100	59	
2	7236.000	5.33	49.08	54.41	74.00	-19.59	peak	100	271	
3	7236.000	5.33	42.75	48.08	54.00	-5.92	AVG	100	271	
4	8055.000	5.81	44.19	50.00	74.00	-24.00	peak	100	360	



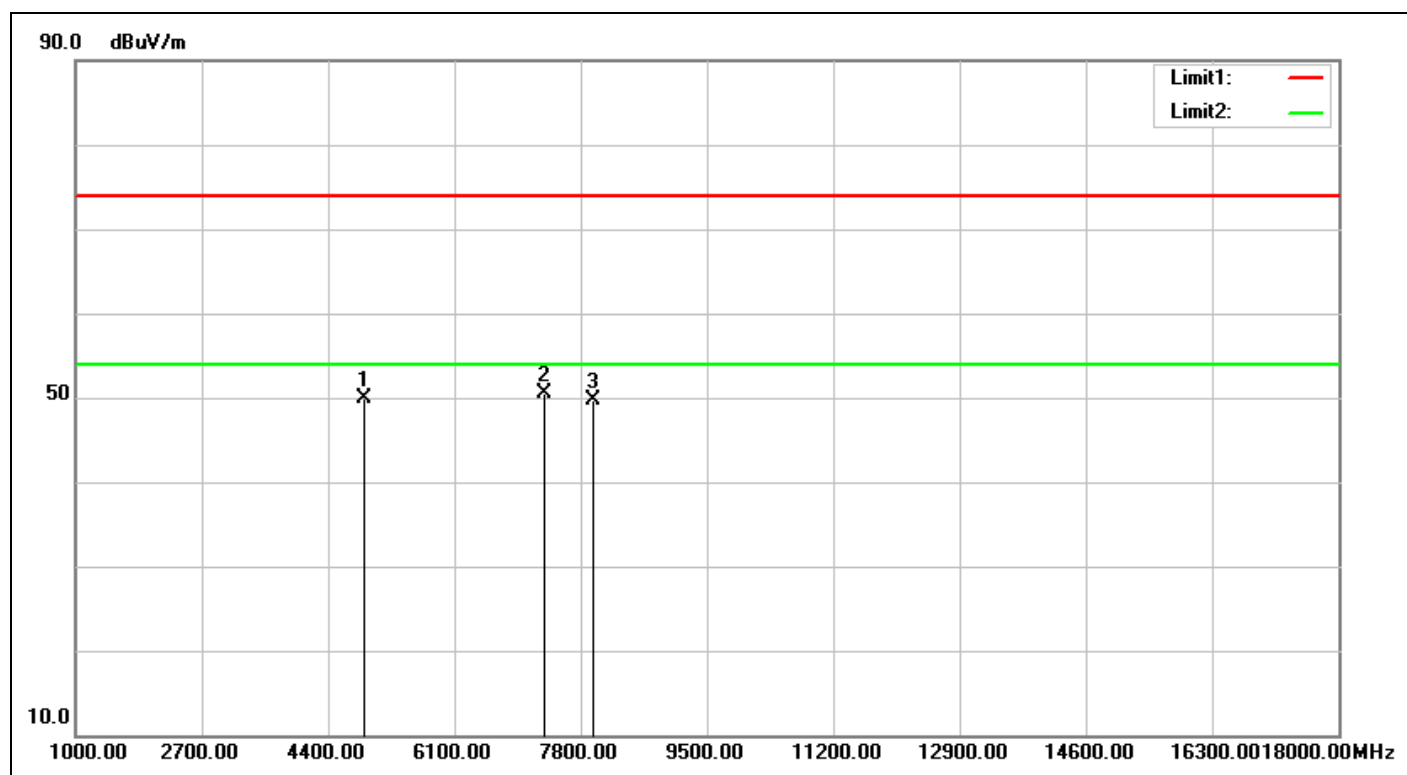
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 20:15:26
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2412-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2A		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.58	49.82	47.24	74.00	-26.76	peak	100	41	
2	7236.000	5.33	46.60	51.93	74.00	-22.07	peak	100	232	
3	8123.000	5.93	44.71	50.64	74.00	-23.36	peak	100	205	



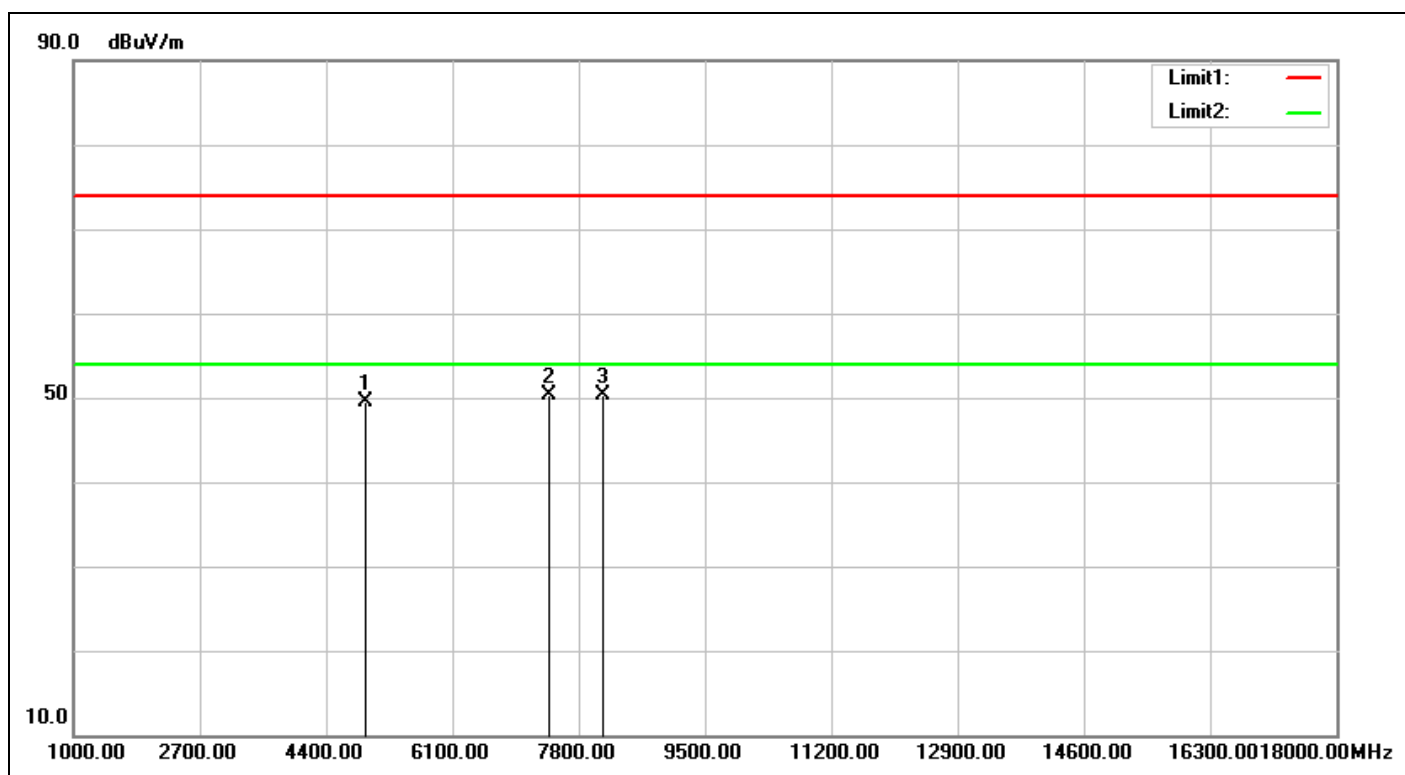
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 19:32:49
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.46	57.60	55.14	74.00	-18.86	peak	100	72	
2	4874.000	-2.46	55.85	53.39	54.00	-0.61	AVG	100	72	
3	7311.000	5.51	49.60	55.11	74.00	-18.89	peak	100	250	
4	7311.000	5.51	45.26	50.77	54.00	-3.23	AVG	100	250	
5	8157.000	6.00	43.03	49.03	74.00	-24.97	peak	100	318	



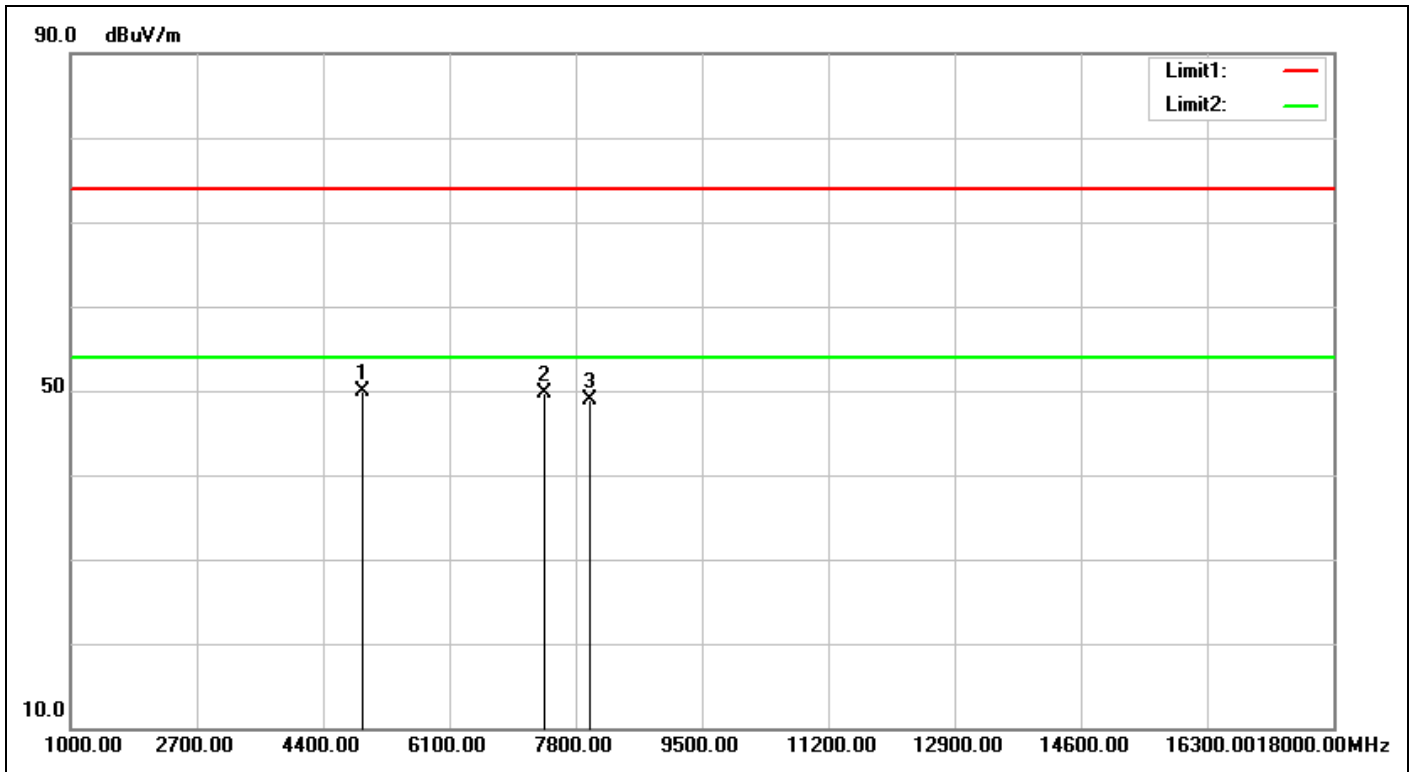
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 19:33:41
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.46	52.41	49.95	74.00	-24.05	peak	100	36	
2	7311.000	5.51	45.08	50.59	74.00	-23.41	peak	100	29	
3	7970.000	5.74	43.88	49.62	74.00	-24.38	peak	100	172	



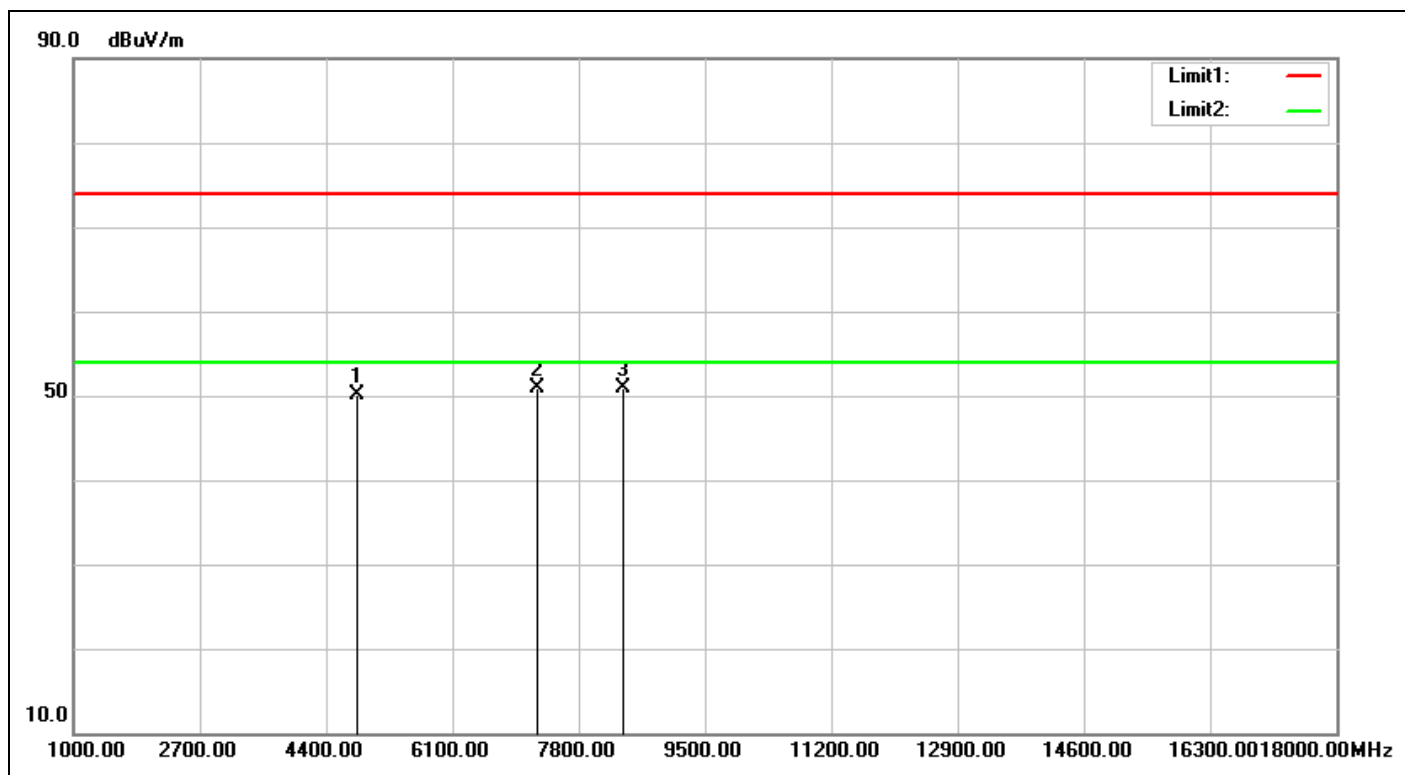
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 20:19:16
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2462-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 27		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4924.000	-2.33	51.79	49.46	74.00	-24.54	peak	100	24	
2	7386.000	5.70	44.67	50.37	74.00	-23.63	peak	100	308	
3	8123.000	5.93	44.28	50.21	74.00	-23.79	peak	100	161	



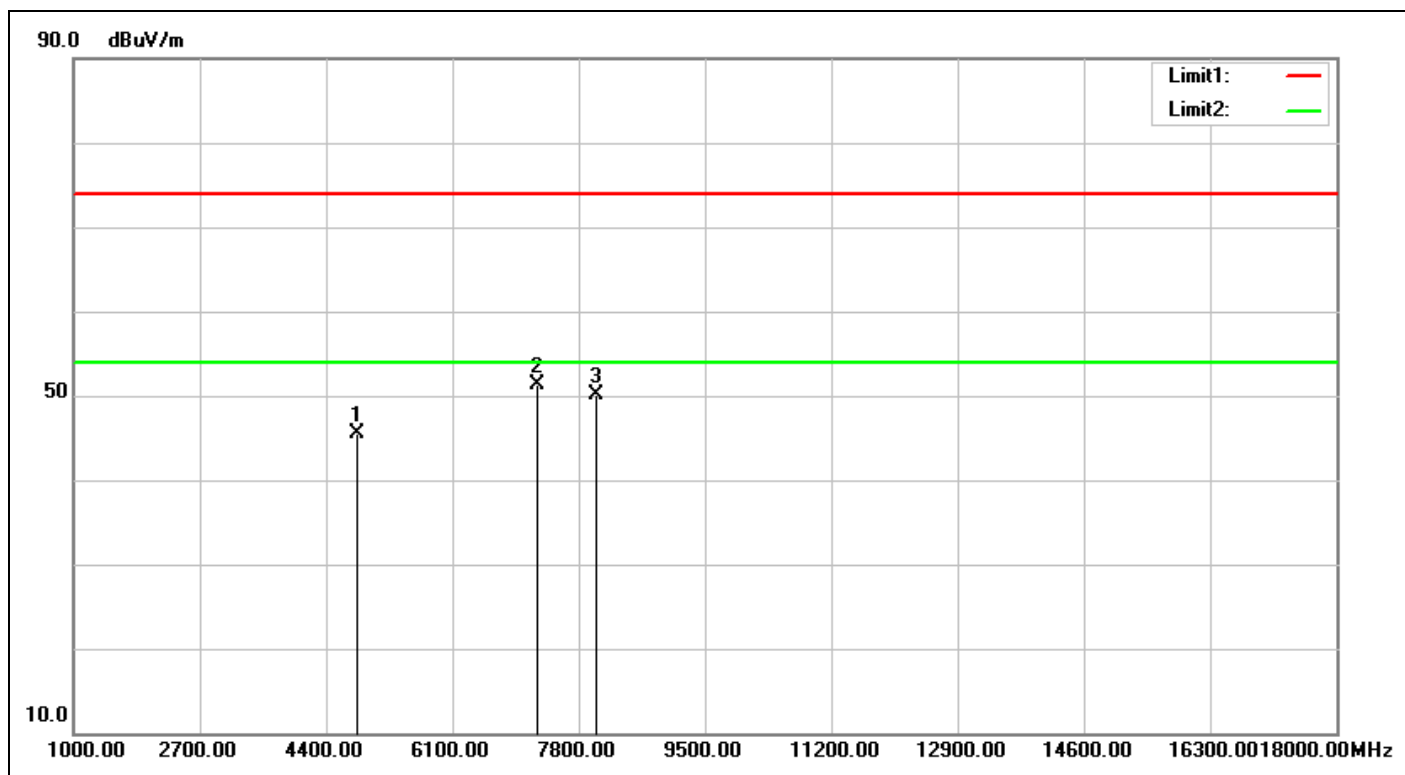
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 20:20:08
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2462-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		
	setting 27		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4924.000	-2.33	52.15	49.82	74.00	-24.18	peak	100	83	
2	7386.000	5.70	44.03	49.73	74.00	-24.27	peak	100	322	
3	7987.000	5.73	43.11	48.84	74.00	-25.16	peak	100	114	



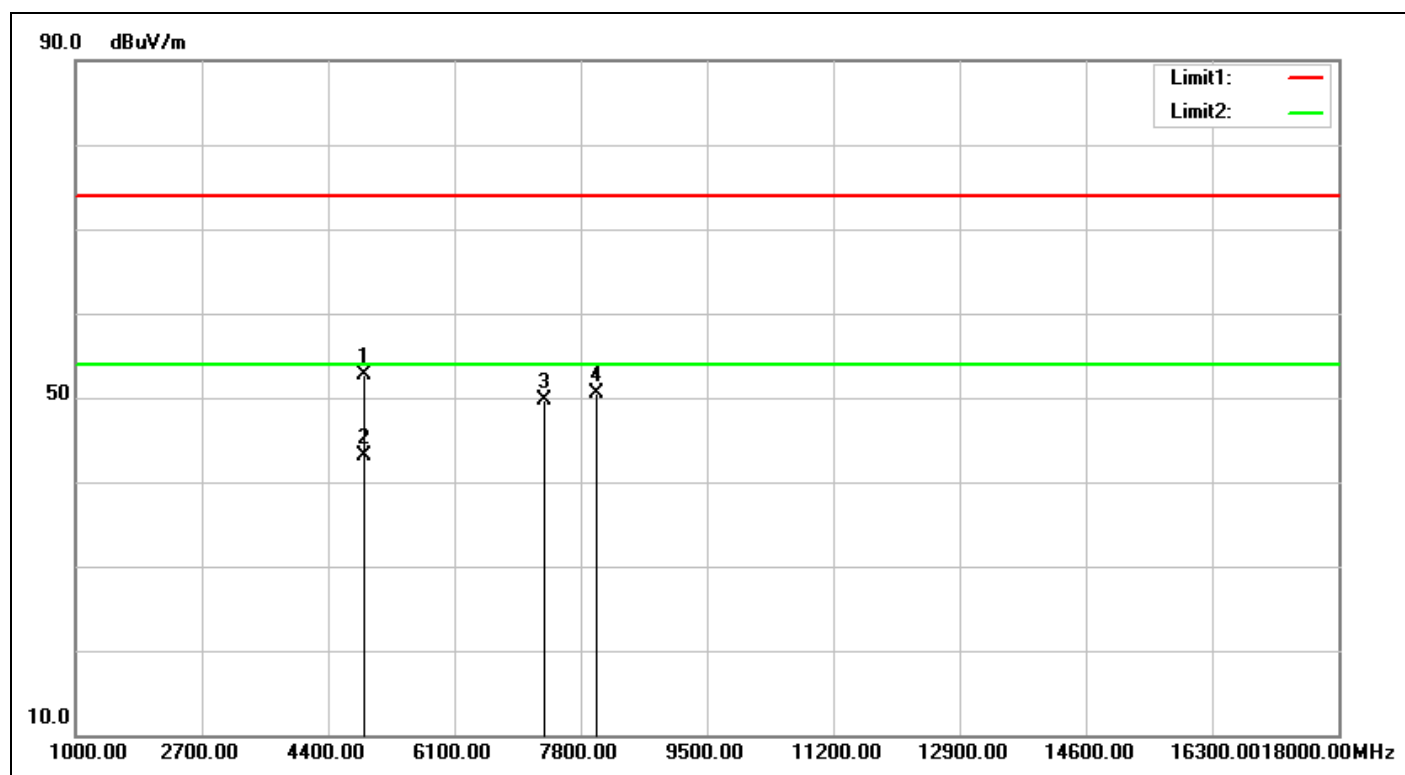
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 20:23:13
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	G-2412-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 22		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.58	52.76	50.18	74.00	-23.82	peak	100	0	
2	7236.000	5.33	45.50	50.83	74.00	-23.17	peak	100	241	
3	8395.000	6.42	44.45	50.87	74.00	-23.13	peak	100	229	



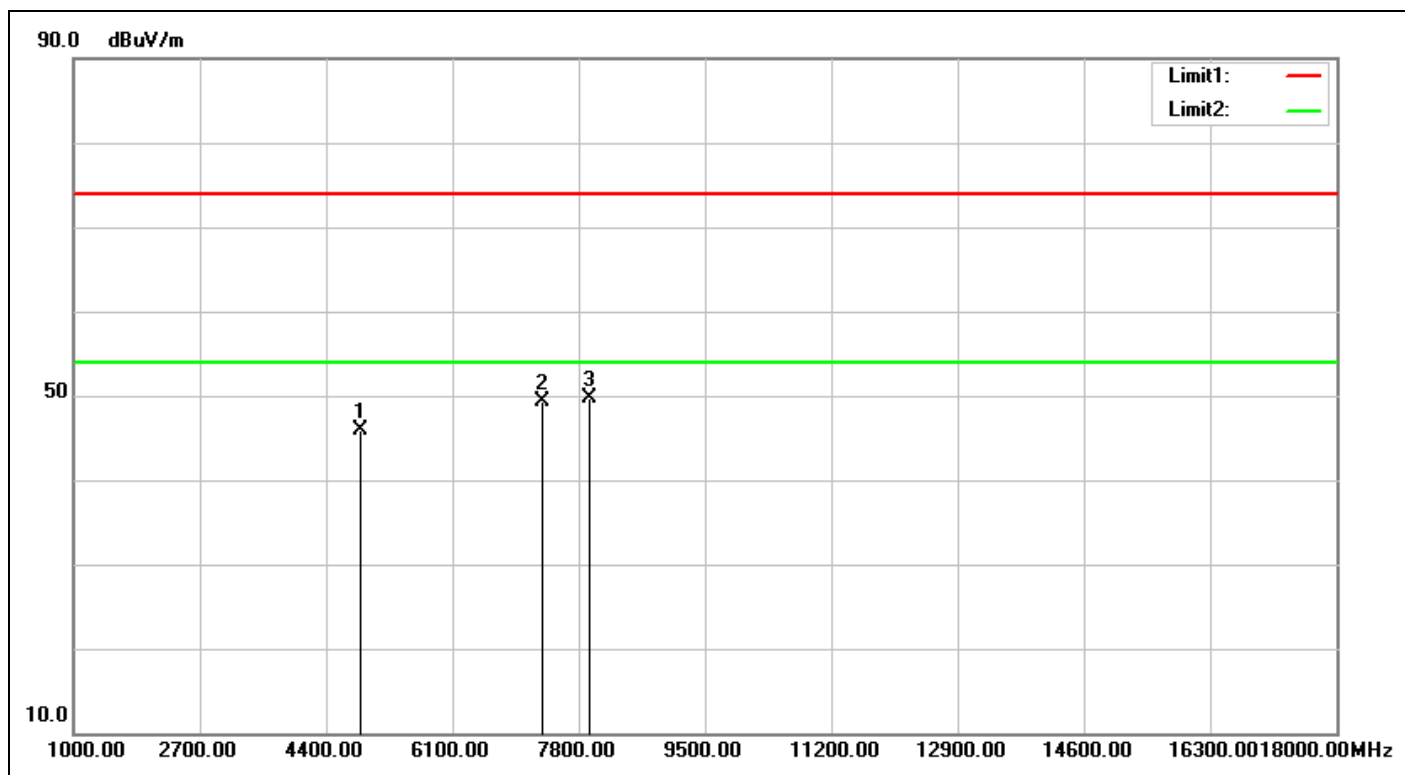
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 20:24:06
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	G-2412-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 22		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.58	48.03	45.45	74.00	-28.55	peak	100	285	
2	7236.000	5.33	45.91	51.24	74.00	-22.76	peak	100	277	
3	8038.000	5.79	44.24	50.03	74.00	-23.97	peak	100	360	



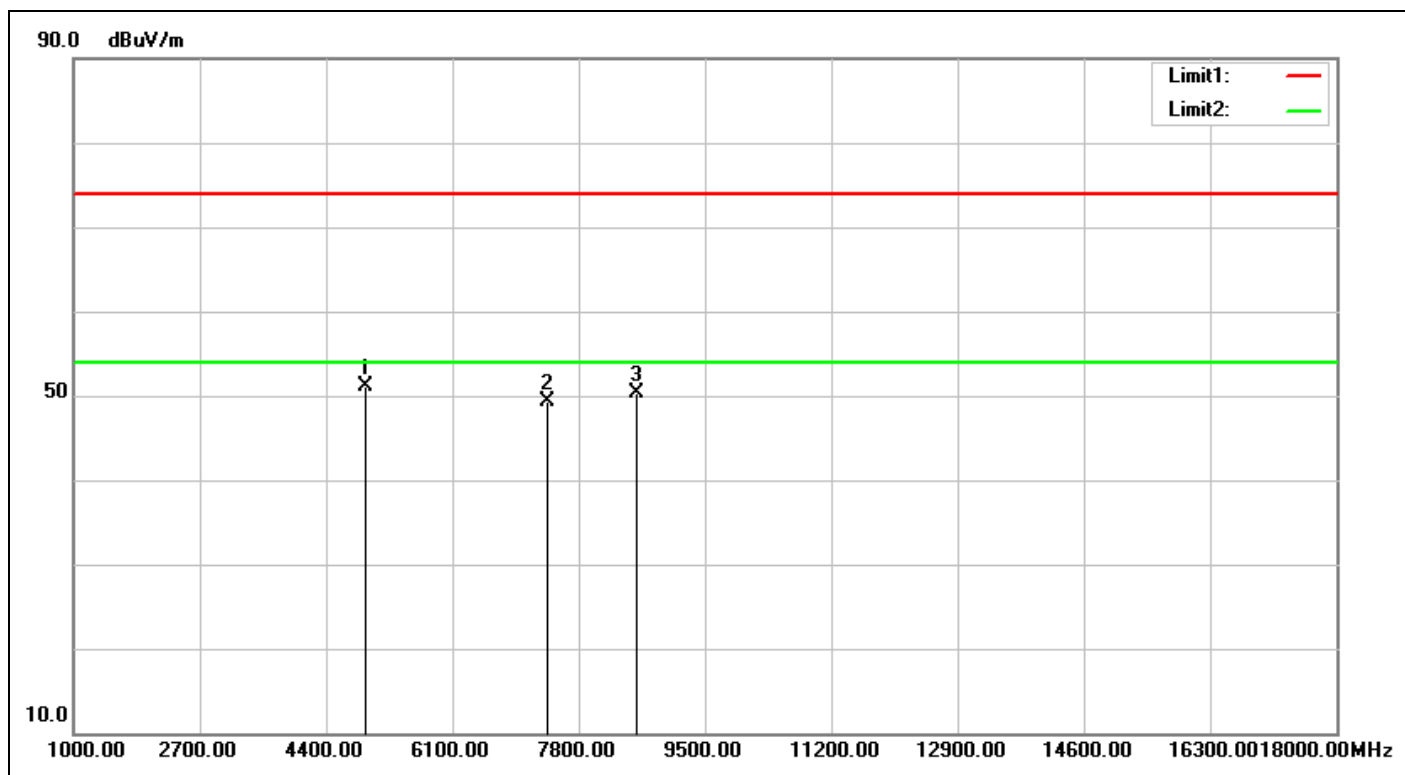
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 20:29:10
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	G-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 3F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.46	55.16	52.70	74.00	-21.30	peak	100	38	
2	4874.000	-2.46	45.55	43.09	54.00	-10.91	AVG	100	38	
3	7311.000	5.51	44.12	49.63	74.00	-24.37	peak	100	150	
4	8021.000	5.75	44.76	50.51	74.00	-23.49	peak	100	349	



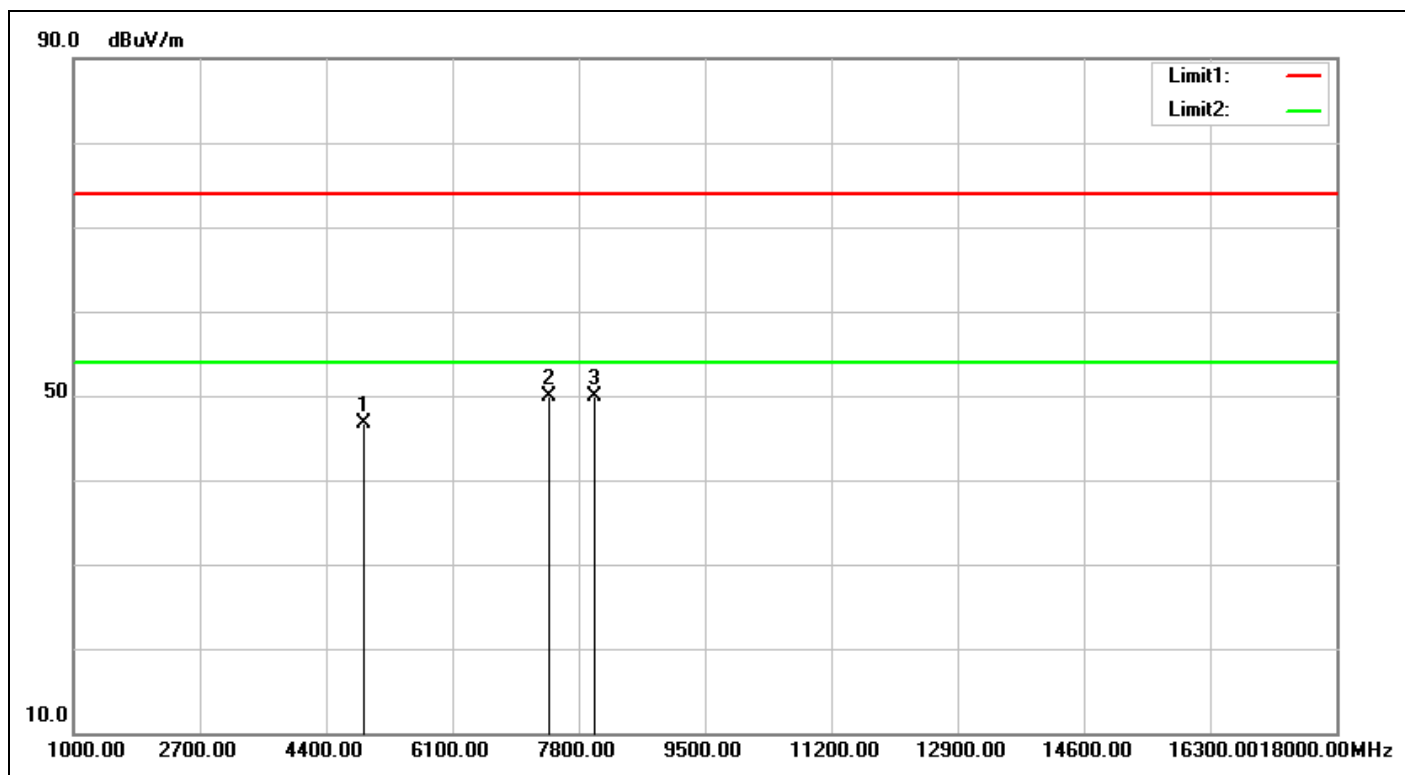
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 20:30:03
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	G-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 3F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.46	48.39	45.93	74.00	-28.07	peak	100	287	
2	7311.000	5.51	43.88	49.39	74.00	-24.61	peak	100	255	
3	7953.000	5.75	44.03	49.78	74.00	-24.22	peak	100	1	



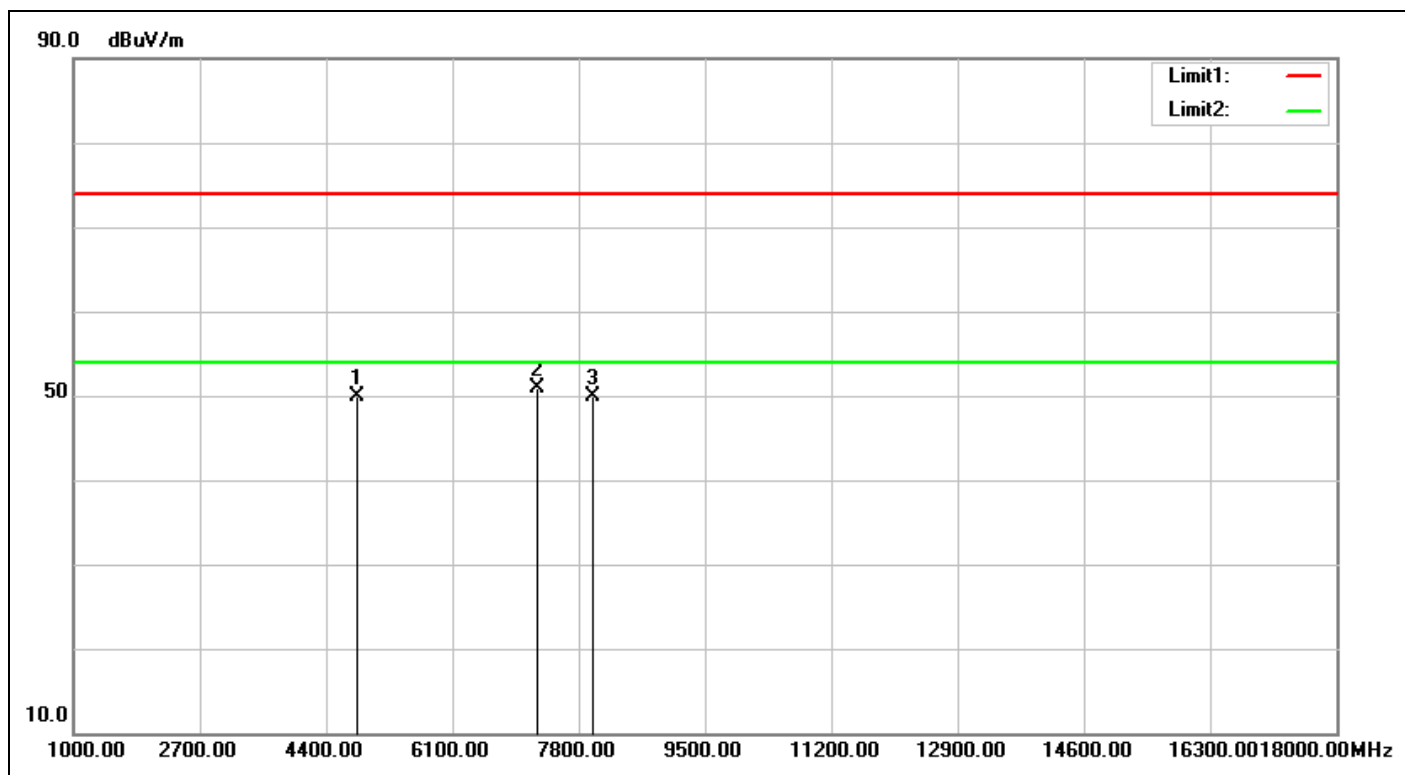
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 20:33:10
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	G-2462-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 21		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4924.000	-2.33	53.49	51.16	74.00	-22.84	peak	100	31	
2	7386.000	5.70	43.68	49.38	74.00	-24.62	peak	100	142	
3	8582.000	6.61	43.79	50.40	74.00	-23.60	peak	100	215	



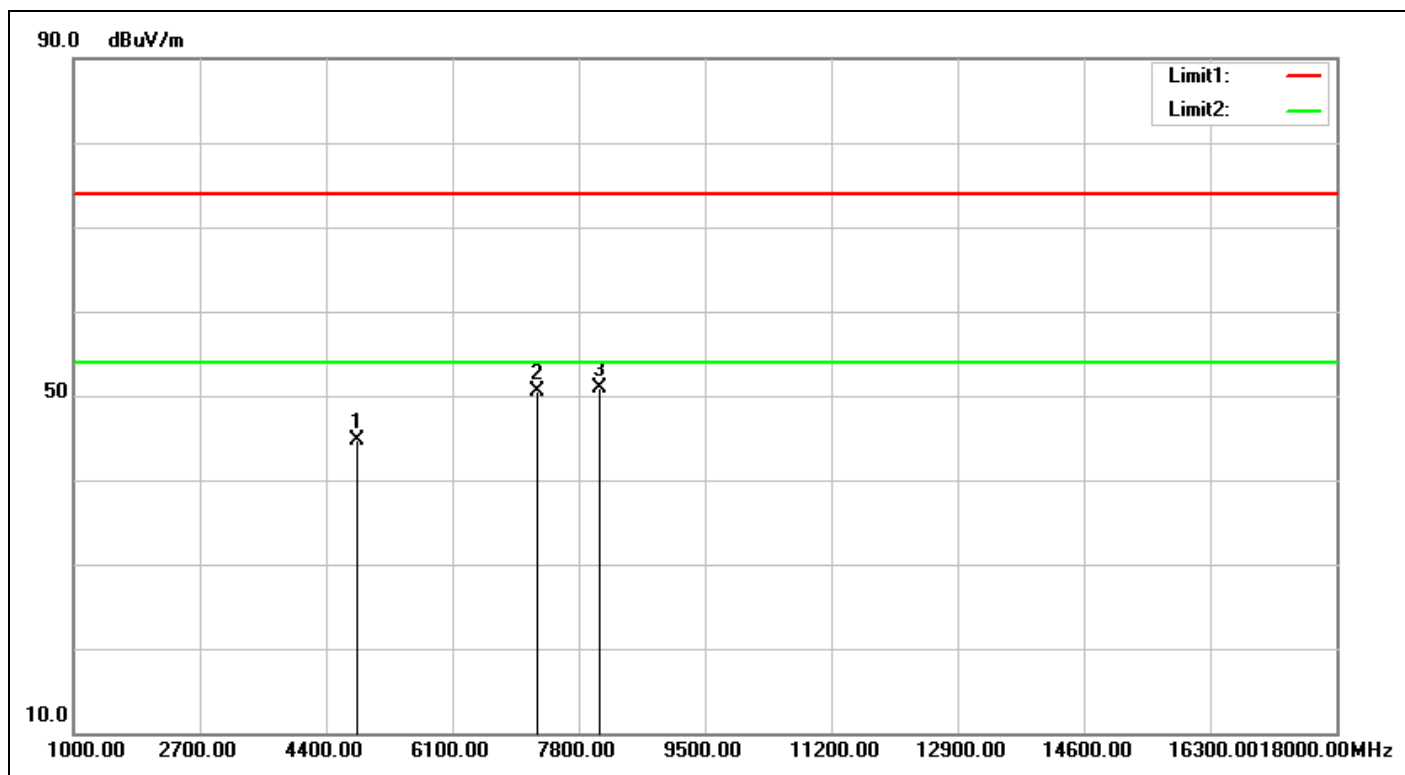
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 20:34:03
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	G-2462-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 21		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4924.000	-2.33	48.95	46.62	74.00	-27.38	peak	100	281	
2	7386.000	5.70	44.18	49.88	74.00	-24.12	peak	100	211	
3	8021.000	5.75	44.25	50.00	74.00	-24.00	peak	100	12	



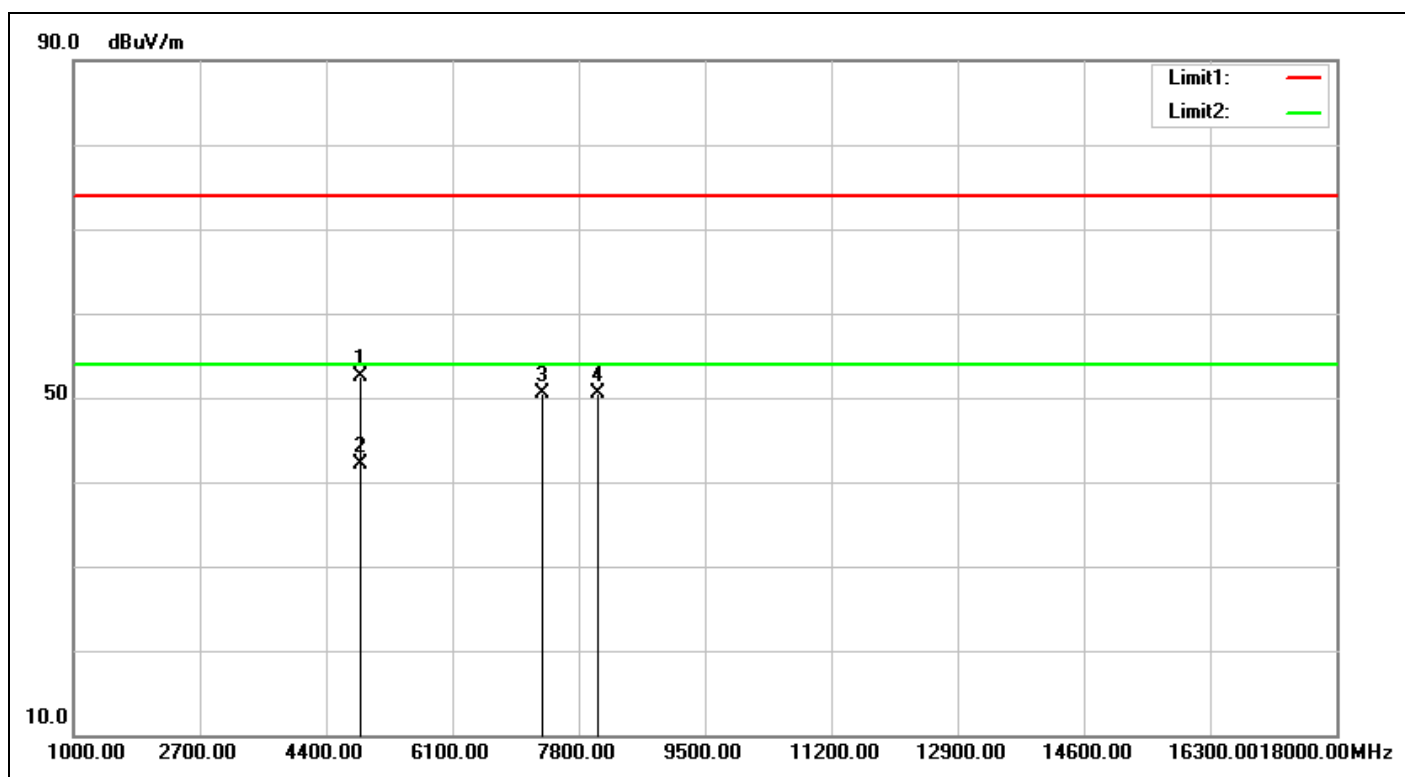
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 20:37:00
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N20-2412-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 27		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.58	52.55	49.97	74.00	-24.03	peak	100	38	
2	7236.000	5.33	45.60	50.93	74.00	-23.07	peak	100	68	
3	7987.000	5.73	44.25	49.98	74.00	-24.02	peak	100	328	



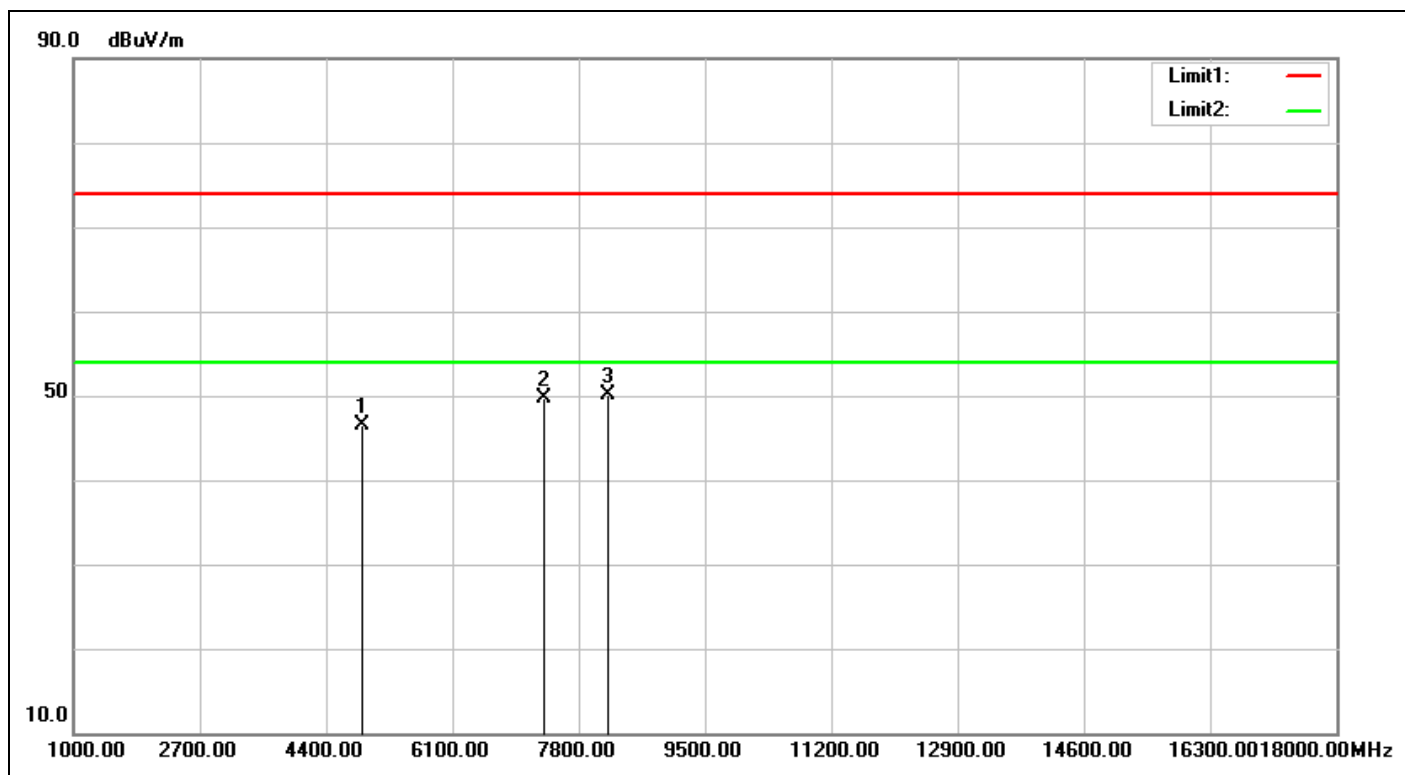
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 20:37:53
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N20-2412-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 27		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.58	47.37	44.79	74.00	-29.21	peak	100	241	
2	7236.000	5.33	45.19	50.52	74.00	-23.48	peak	100	56	
3	8089.000	5.88	44.96	50.84	74.00	-23.16	peak	100	145	



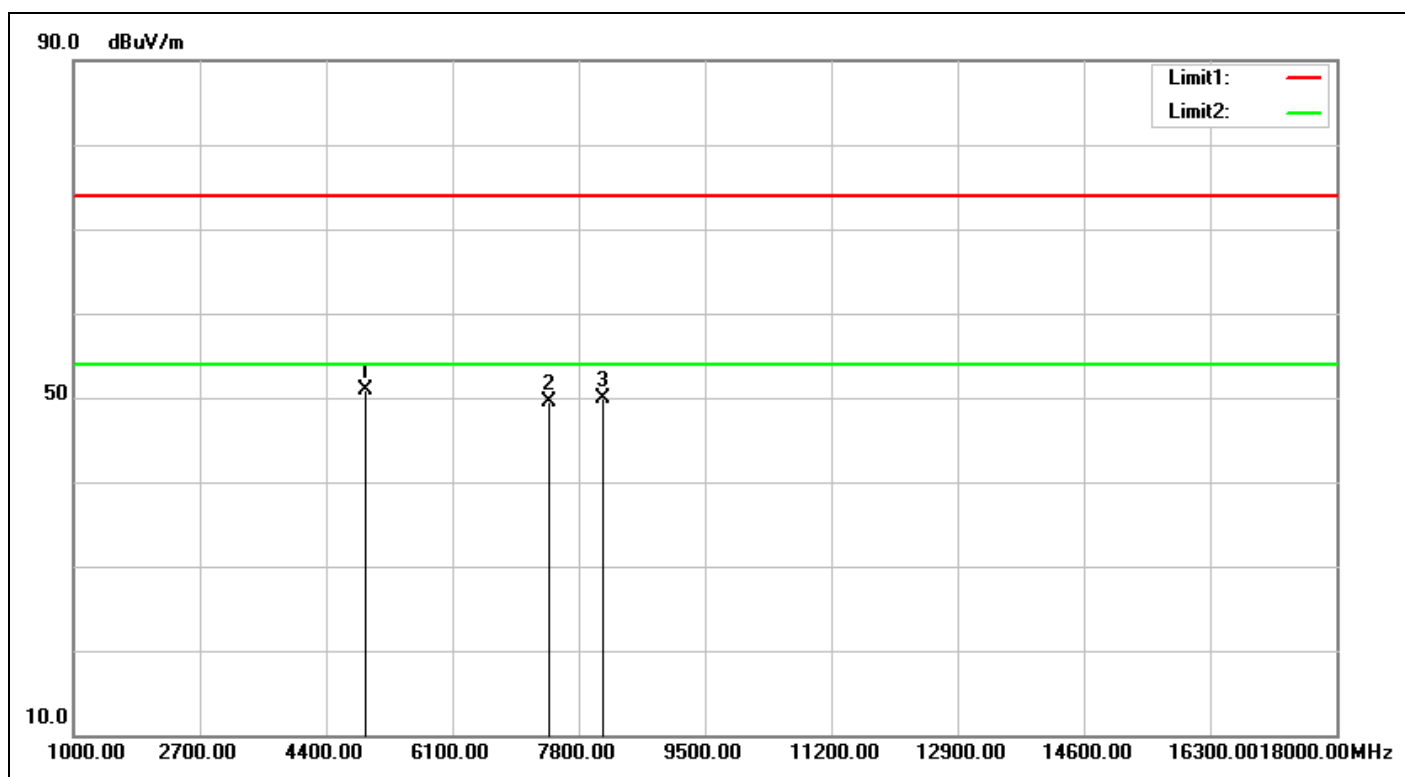
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 20:40:09
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N20-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 3F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.46	55.06	52.60	74.00	-21.40	peak	100	24	
2	4874.000	-2.46	44.55	42.09	54.00	-11.91	AVG	100	24	
3	7311.000	5.51	44.91	50.42	74.00	-23.58	peak	100	98	
4	8055.000	5.81	44.69	50.50	74.00	-23.50	peak	100	256	



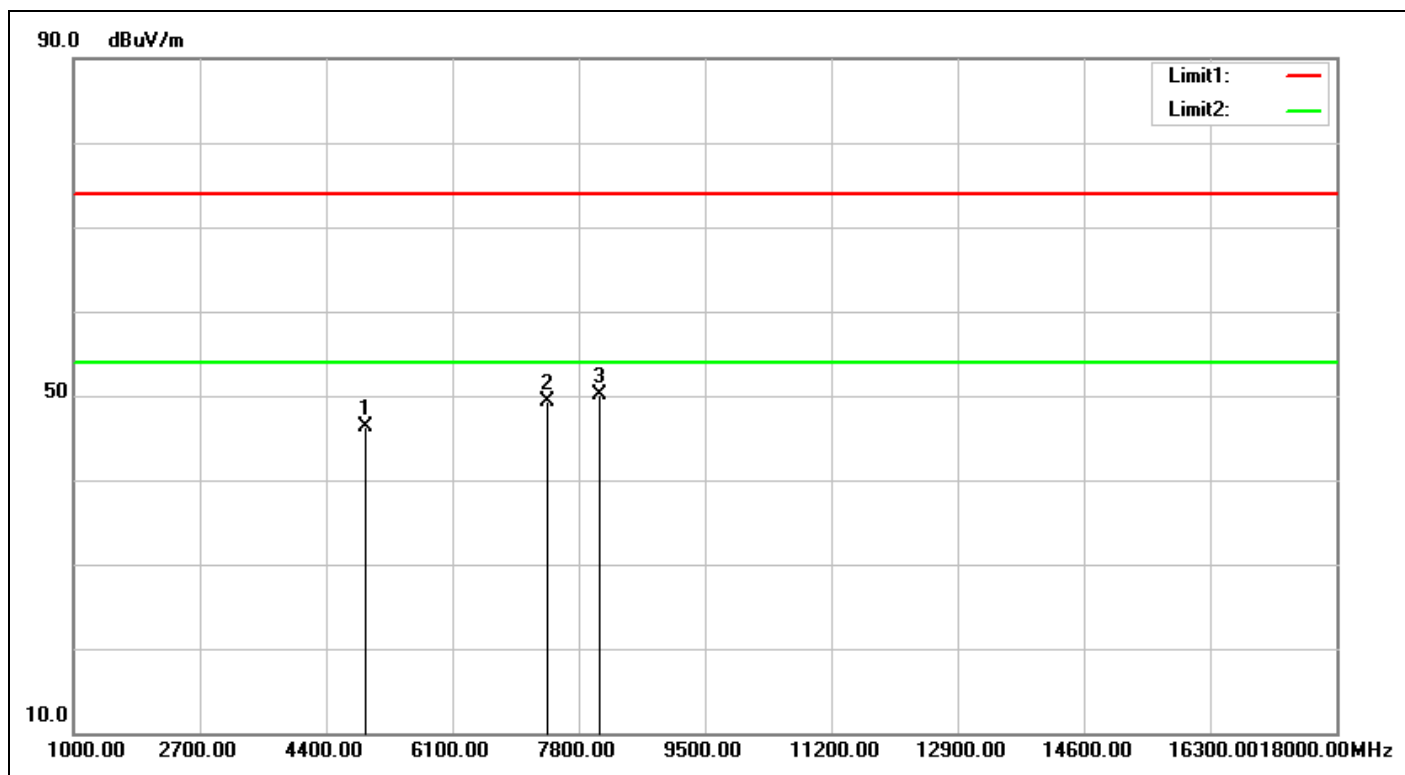
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 20:41:01
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N20-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		
	setting 3F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.46	48.88	46.42	74.00	-27.58	peak	100	211	
2	7311.000	5.51	44.10	49.61	74.00	-24.39	peak	100	190	
3	8191.000	6.06	44.06	50.12	74.00	-23.88	peak	100	285	



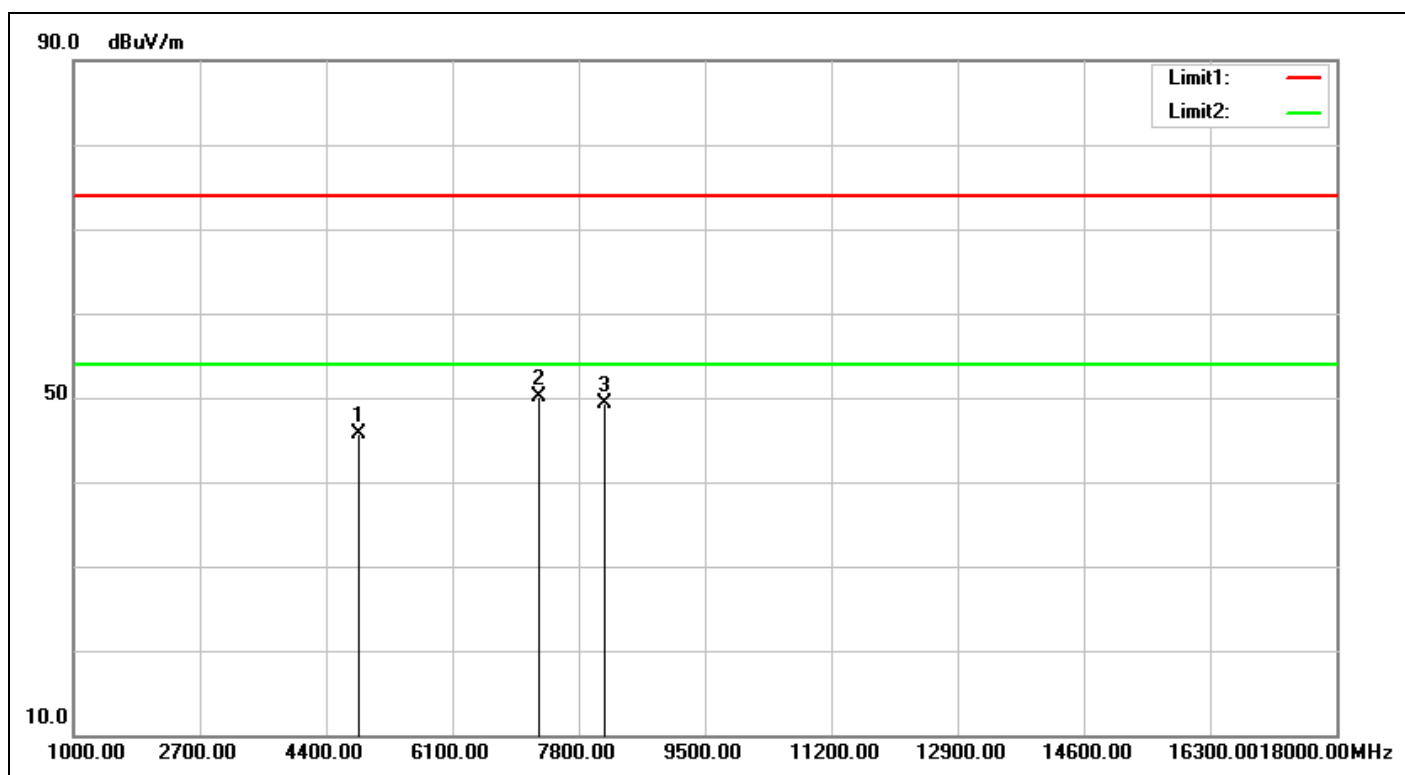
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 20:44:14
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N20-2462-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 27		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4924.000	-2.33	53.25	50.92	74.00	-23.08	peak	100	348	
2	7386.000	5.70	43.85	49.55	74.00	-24.45	peak	100	150	
3	8123.000	5.93	44.05	49.98	74.00	-24.02	peak	100	10	



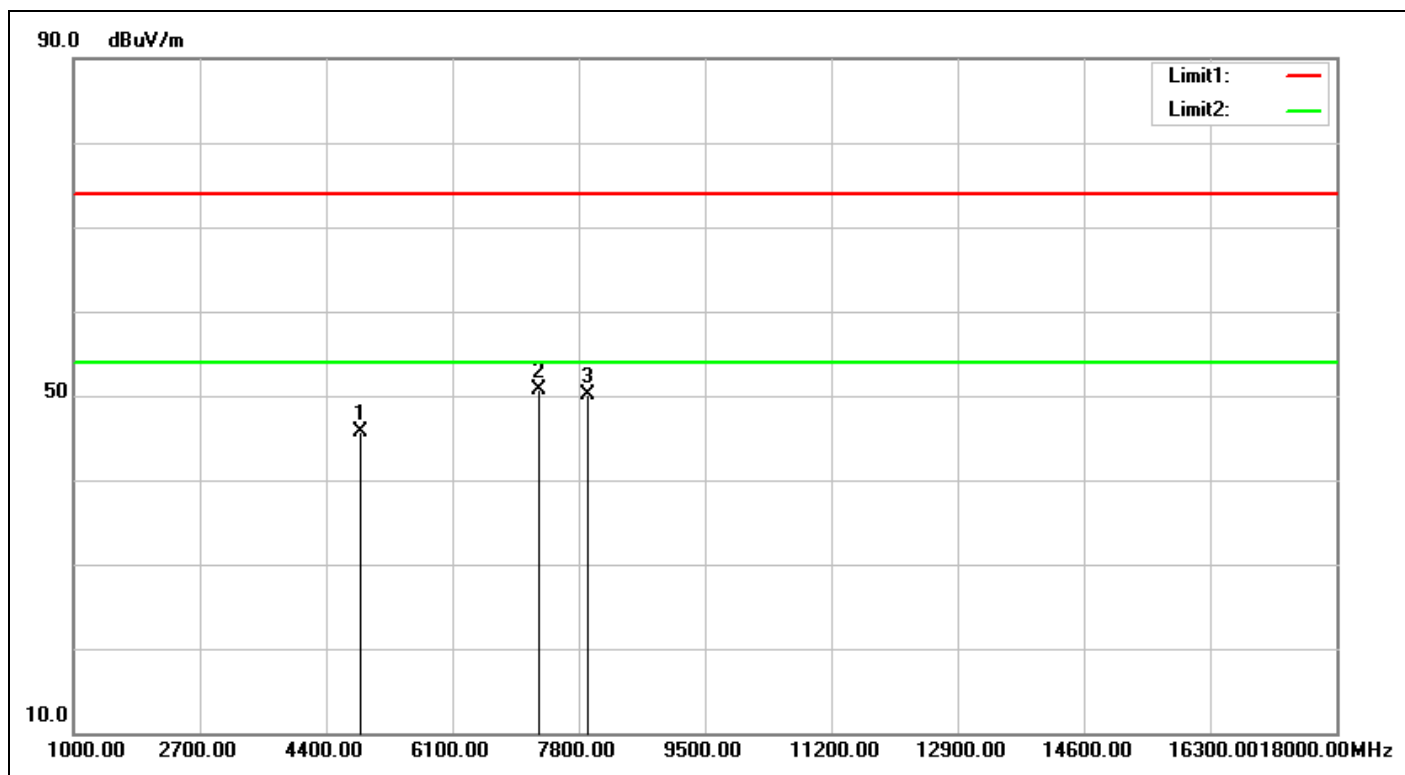
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 20:45:06
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N20-2462-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 27		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4924.000	-2.33	48.60	46.27	74.00	-27.73	peak	100	289	
2	7386.000	5.70	43.54	49.24	74.00	-24.76	peak	100	198	
3	8089.000	5.88	44.31	50.19	74.00	-23.81	peak	100	340	



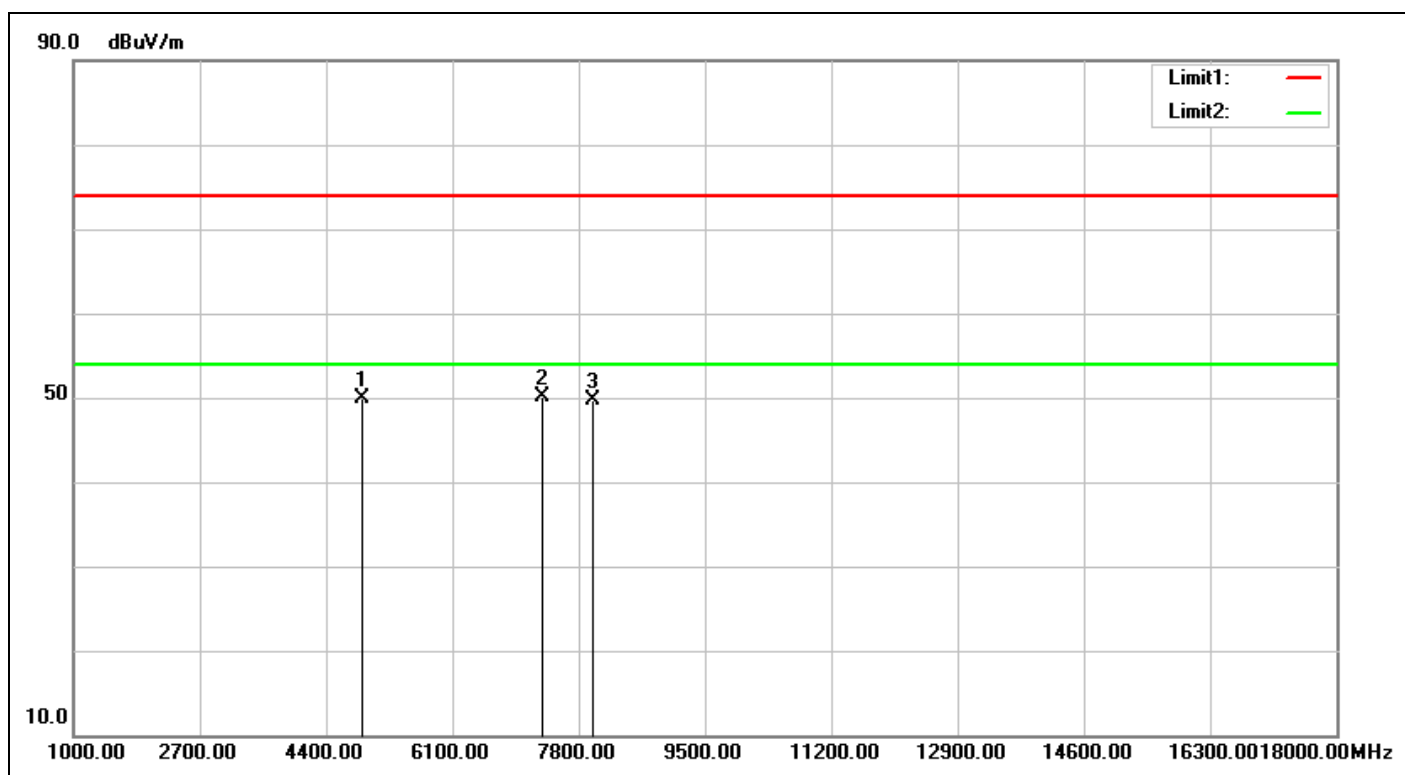
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 20:57:46
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N40-2422-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		
	setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4844.000	-2.54	48.21	45.67	74.00	-28.33	peak	100	38	
2	7266.000	5.40	44.65	50.05	74.00	-23.95	peak	100	77	
3	8157.000	6.00	43.24	49.24	74.00	-24.76	peak	100	78	



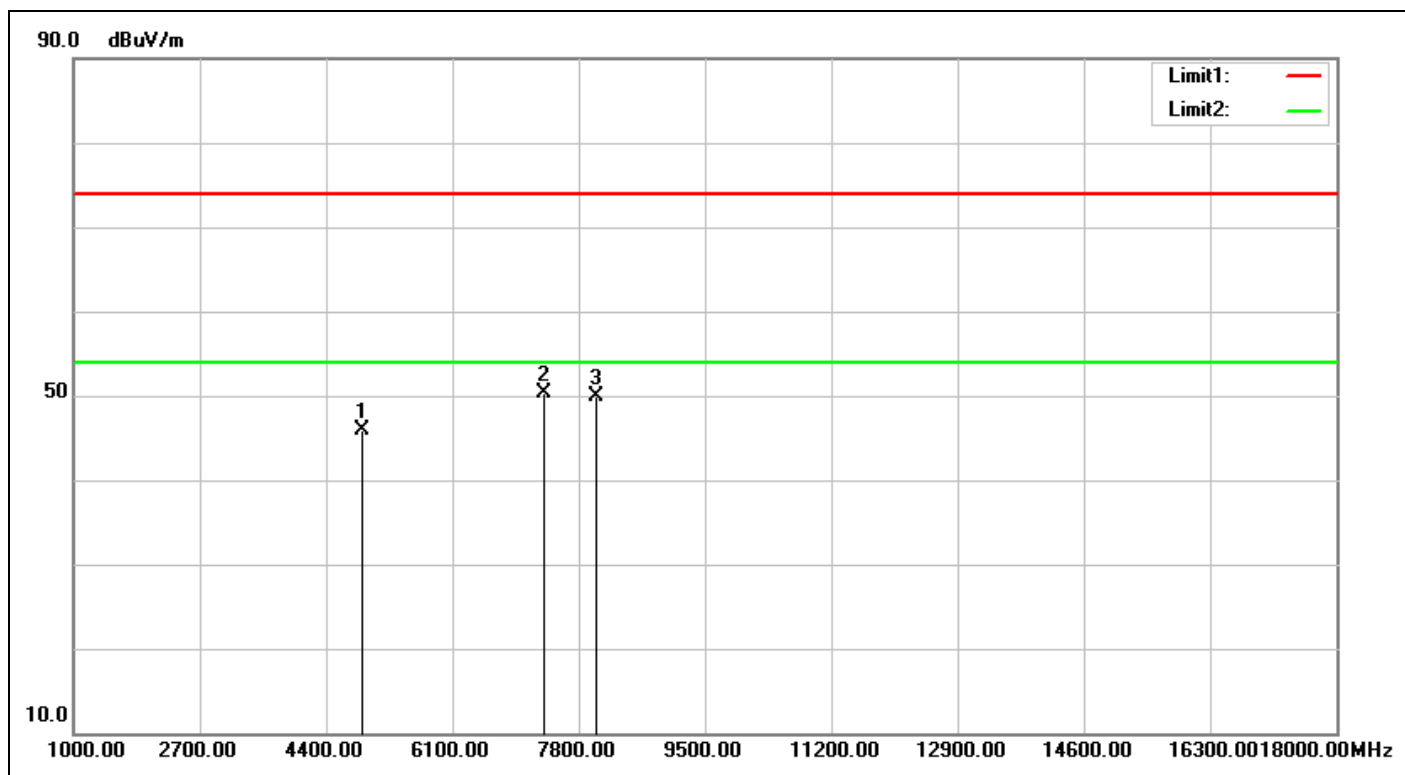
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 20:58:38
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N40-2422-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4844.000	-2.54	48.23	45.69	74.00	-28.31	peak	100	241	
2	7266.000	5.40	45.24	50.64	74.00	-23.36	peak	100	98	
3	7919.000	5.76	44.35	50.11	74.00	-23.89	peak	100	81	



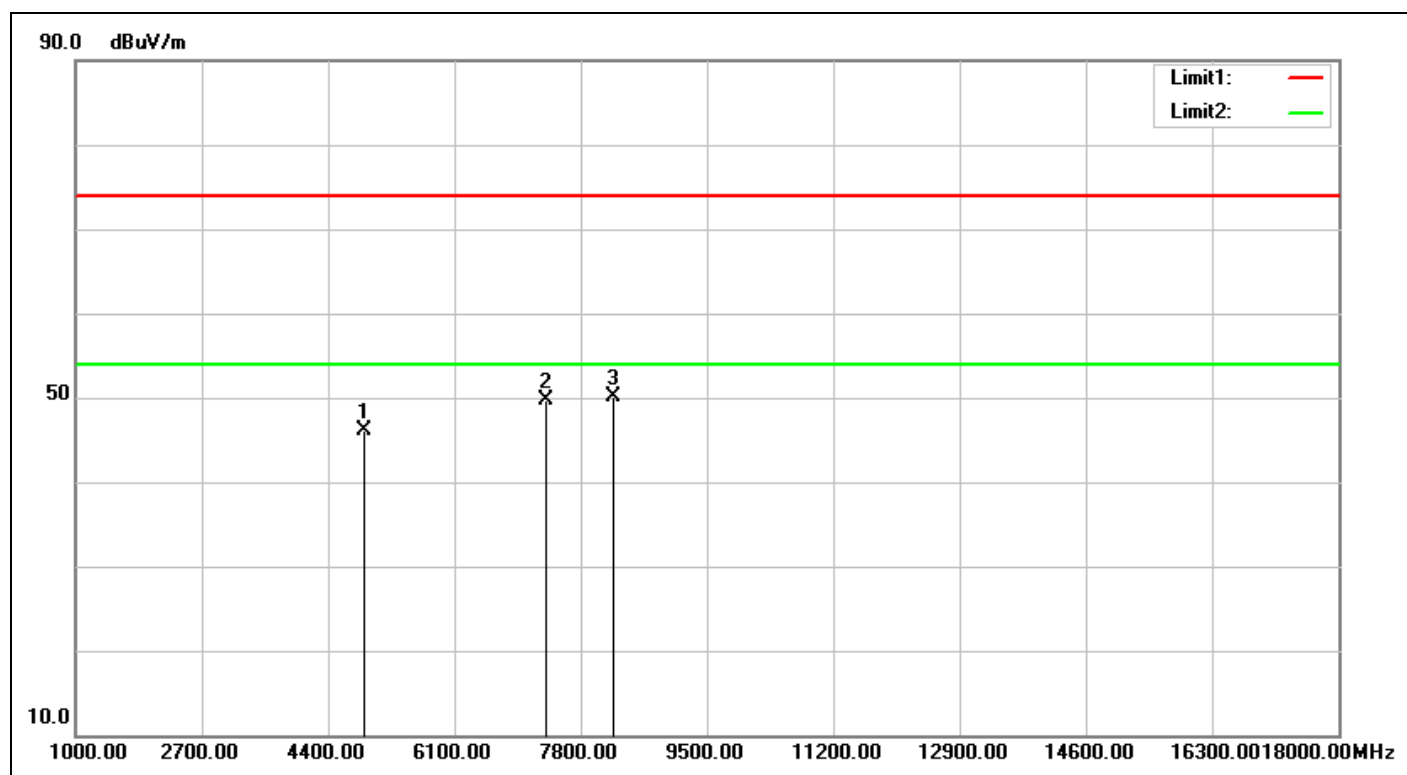
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:04:35
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N40-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 3F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.46	52.41	49.95	74.00	-24.05	peak	100	54	
2	7311.000	5.51	44.55	50.06	74.00	-23.94	peak	100	111	
3	7987.000	5.73	43.97	49.70	74.00	-24.30	peak	100	65	



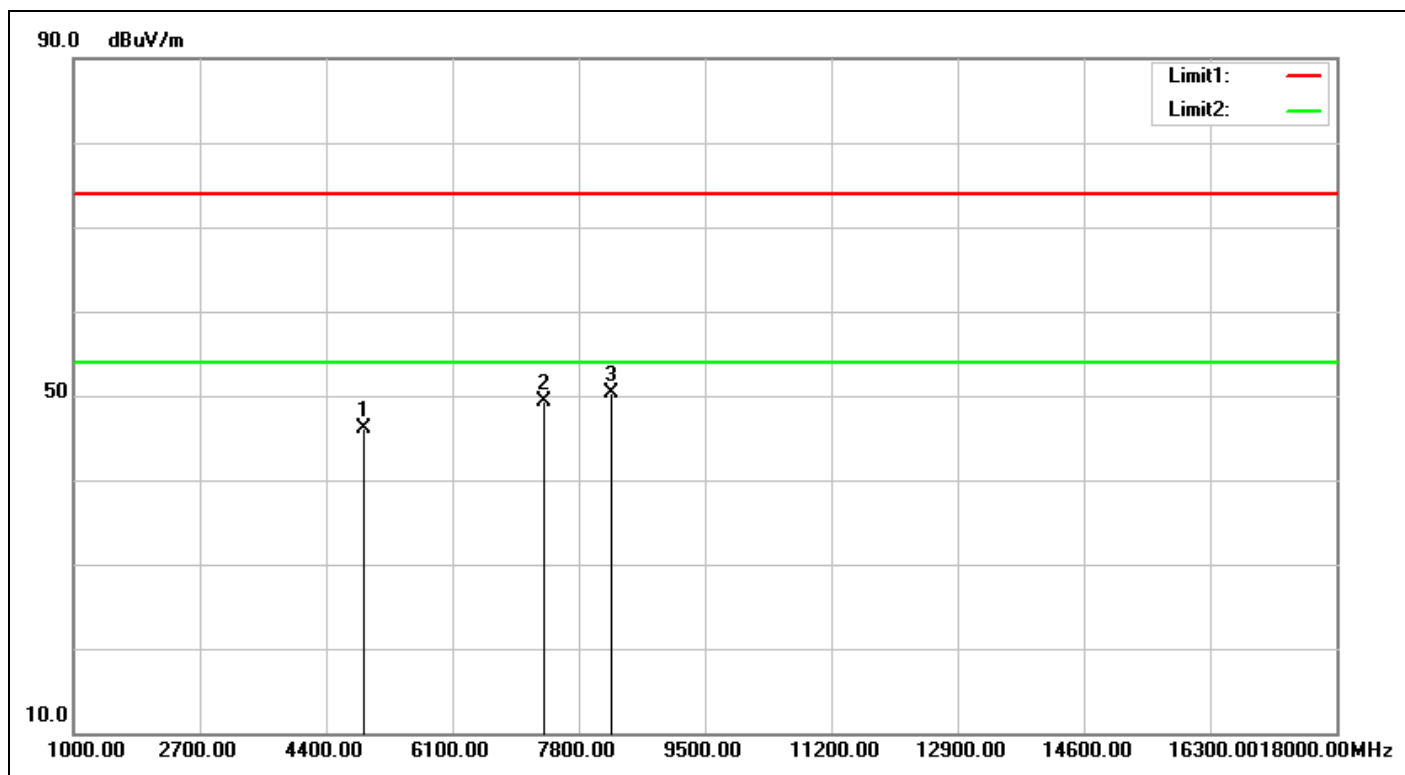
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:05:27
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N40-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 3F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.46	48.27	45.81	74.00	-28.19	peak	100	210	
2	7311.000	5.51	44.78	50.29	74.00	-23.71	peak	100	178	
3	8038.000	5.79	44.19	49.98	74.00	-24.02	peak	100	9	



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:07:44
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N40-2452-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 20		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4904.000	-2.39	48.43	46.04	74.00	-27.96	peak	100	37	
2	7356.000	5.63	44.15	49.78	74.00	-24.22	peak	100	140	
3	8242.000	6.16	43.88	50.04	74.00	-23.96	peak	100	98	



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:08:36
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N40-2452-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 20		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4904.000	-2.39	48.44	46.05	74.00	-27.95	peak	100	198	
2	7356.000	5.63	43.72	49.35	74.00	-24.65	peak	100	150	
3	8242.000	6.16	44.19	50.35	74.00	-23.65	peak	100	357	

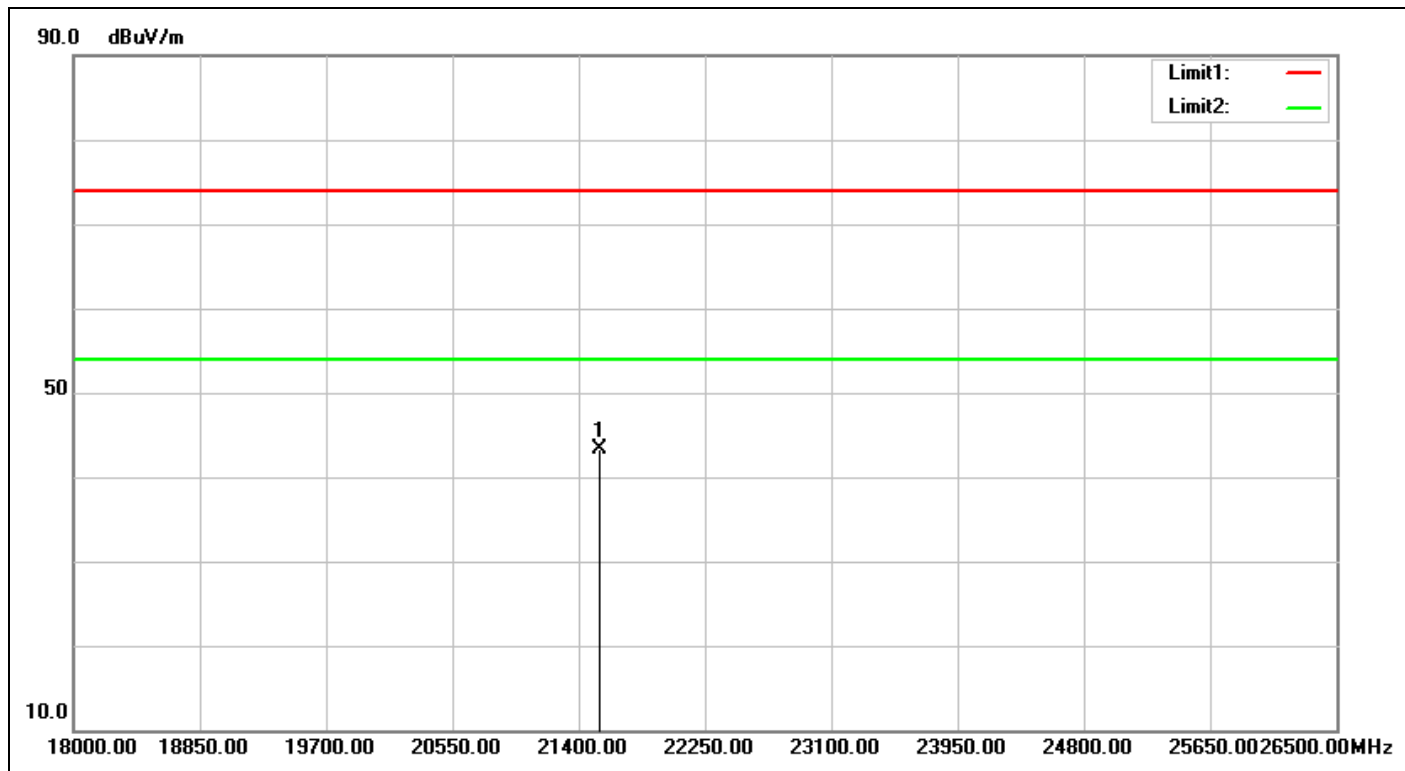
Spurious Emissions, TX Mode, 18-26.5G



TUV Rheinland Taiwan Ltd.

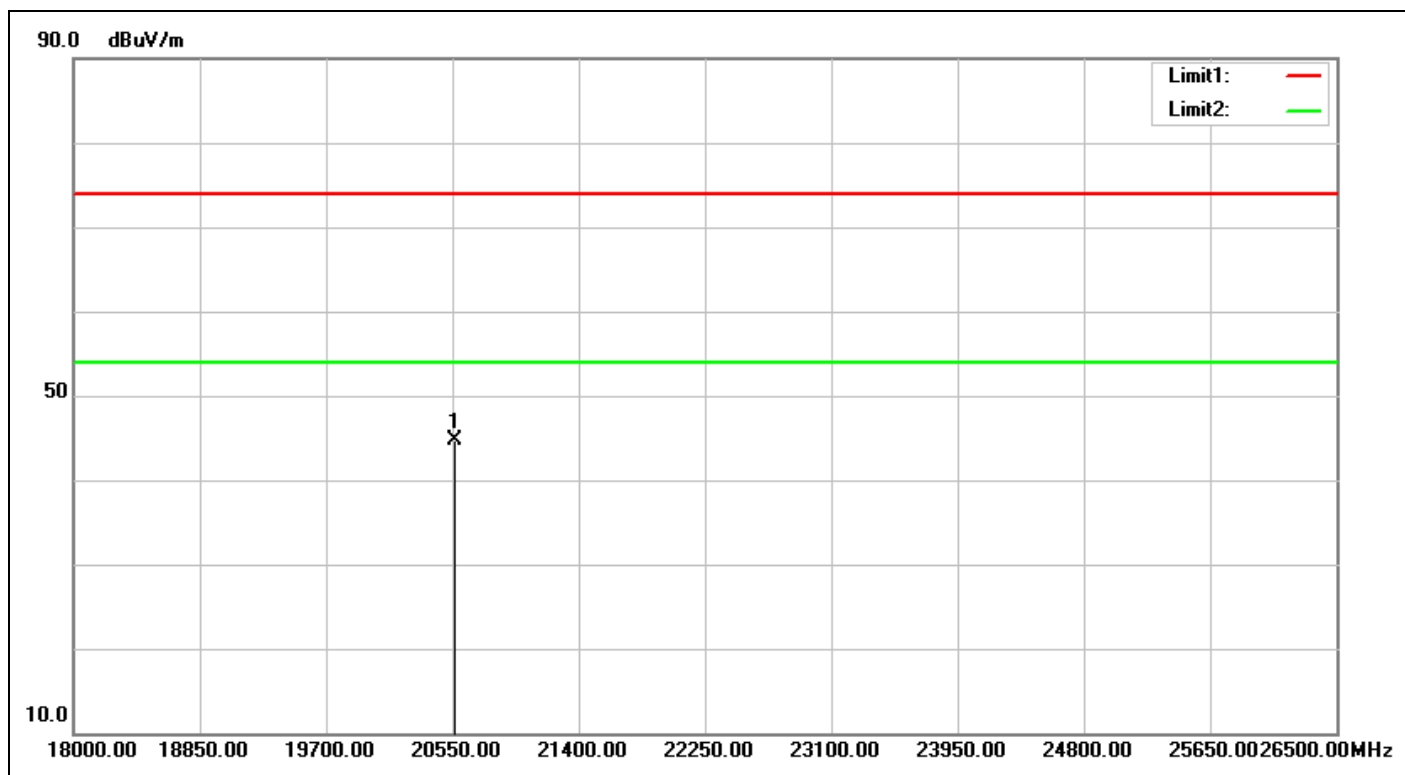
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



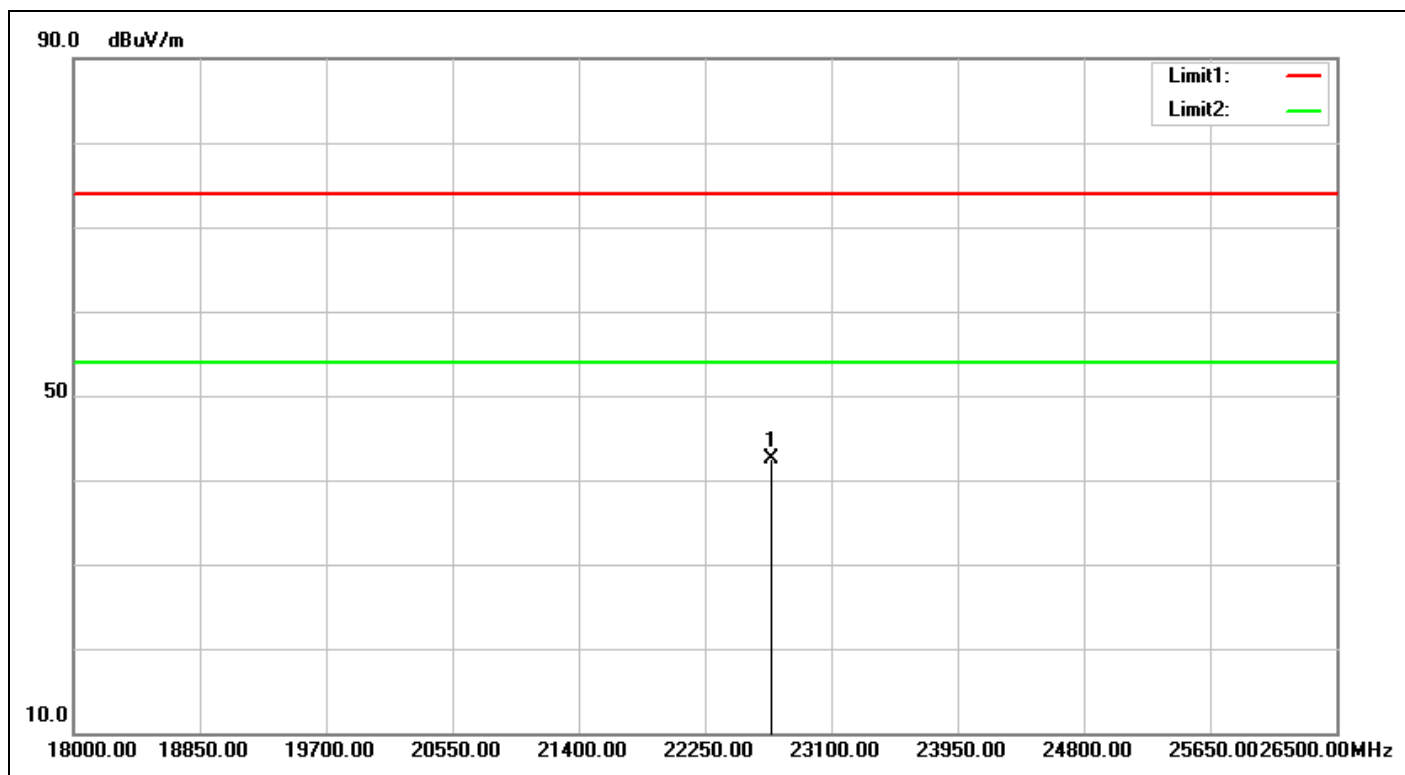
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:22:50
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2412-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2A		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21536.000	4.33	39.07	43.40	74.00	-30.60	peak	100	536	



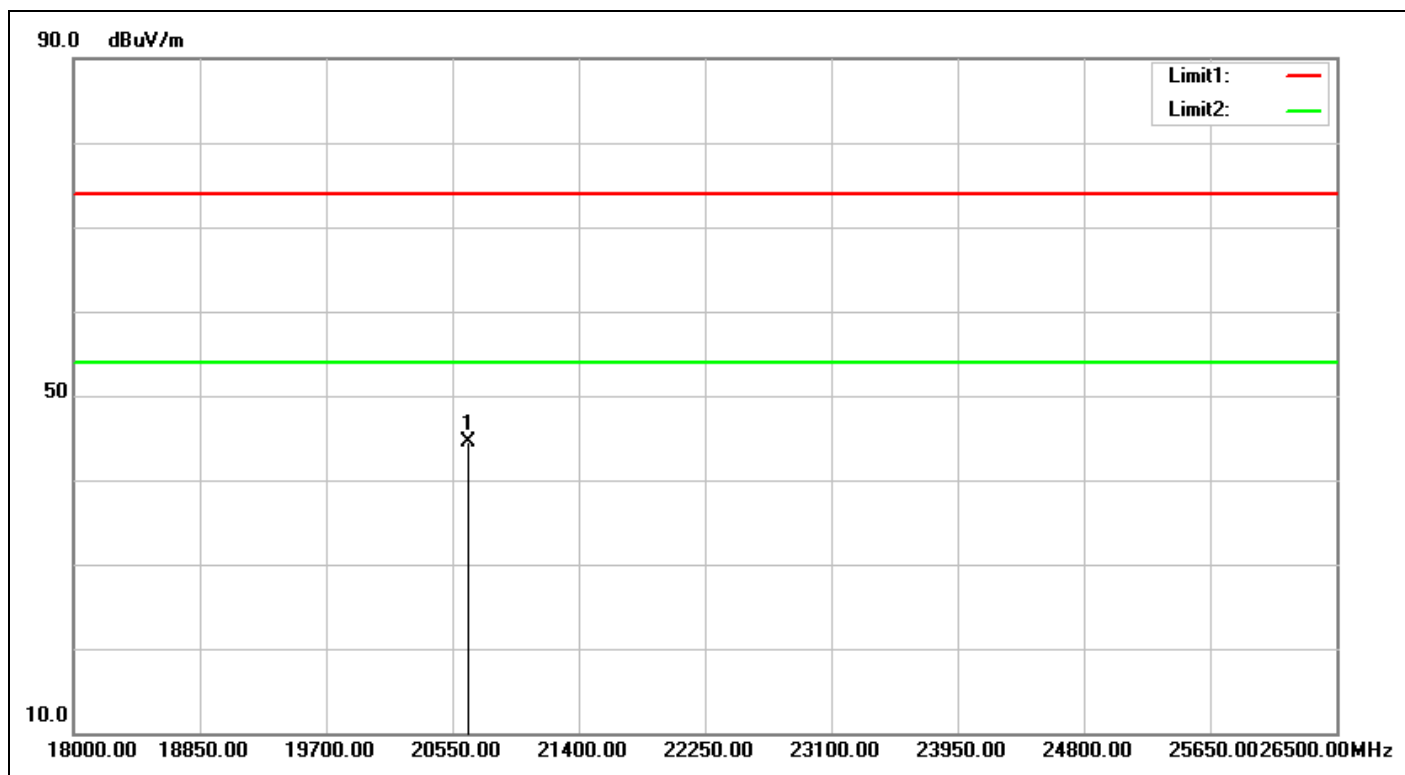
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:22:57
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2412-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2A		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20567.000	4.23	40.42	44.65	74.00	-29.35	peak	100	150	



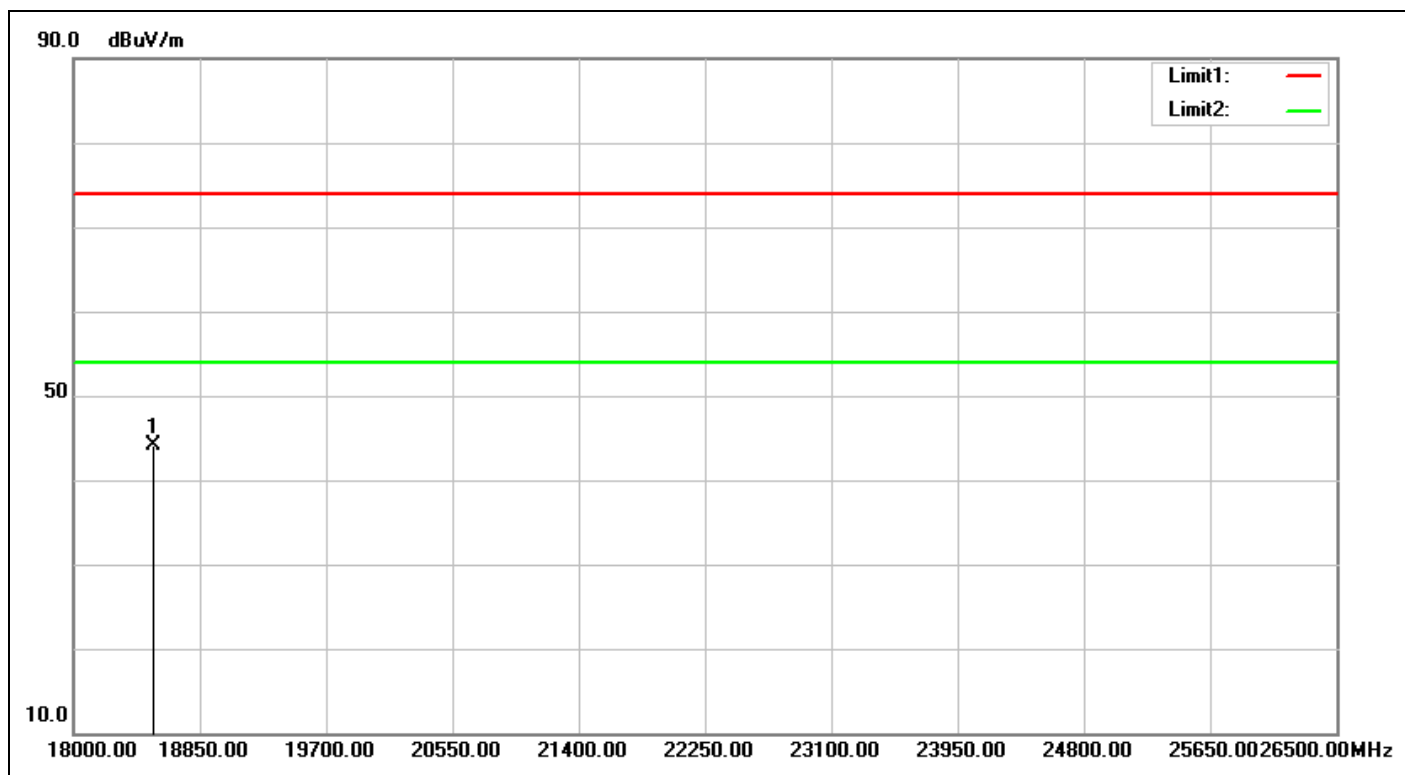
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:23:44
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22700.500	4.67	37.74	42.41	74.00	-31.59	peak	100	98	



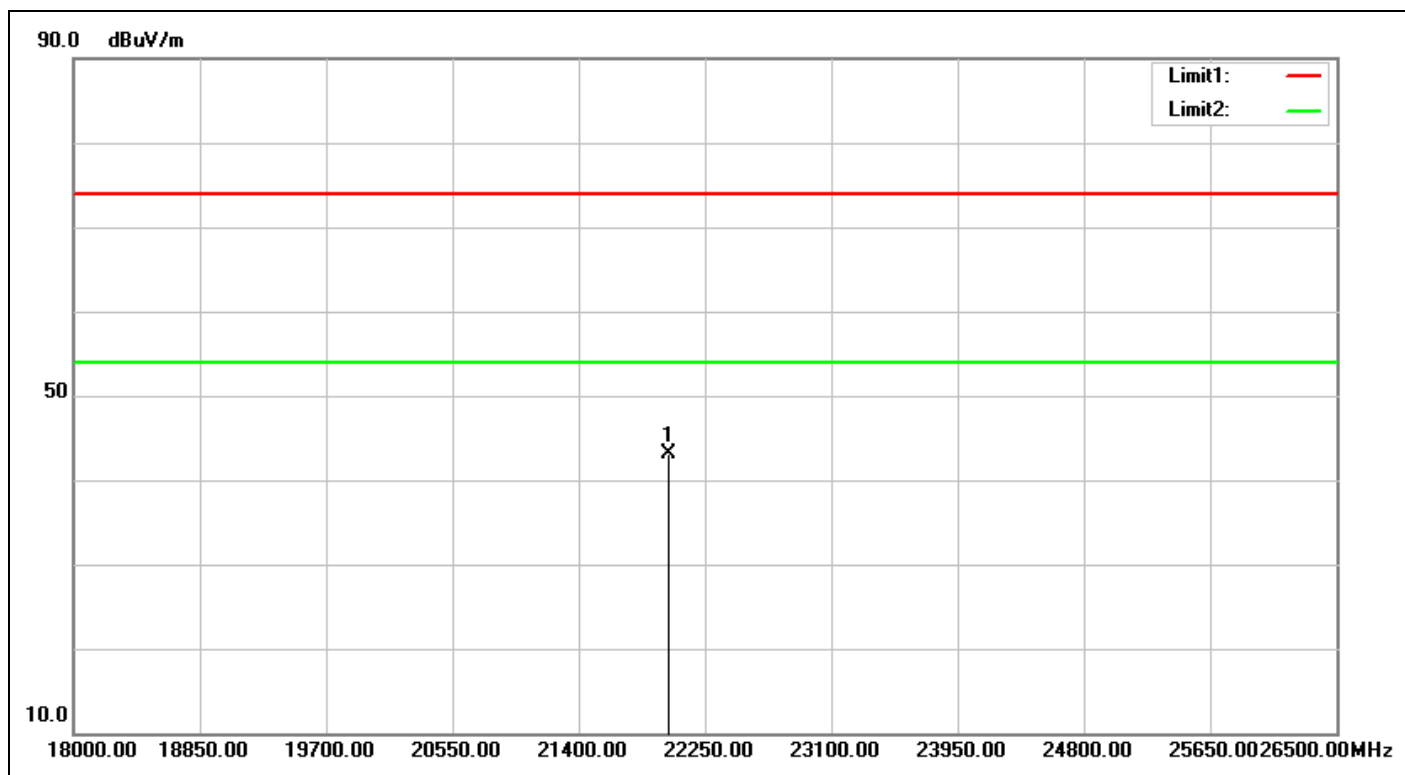
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:23:50
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20660.500	4.28	40.18	44.46	74.00	-29.54	peak	100	118	



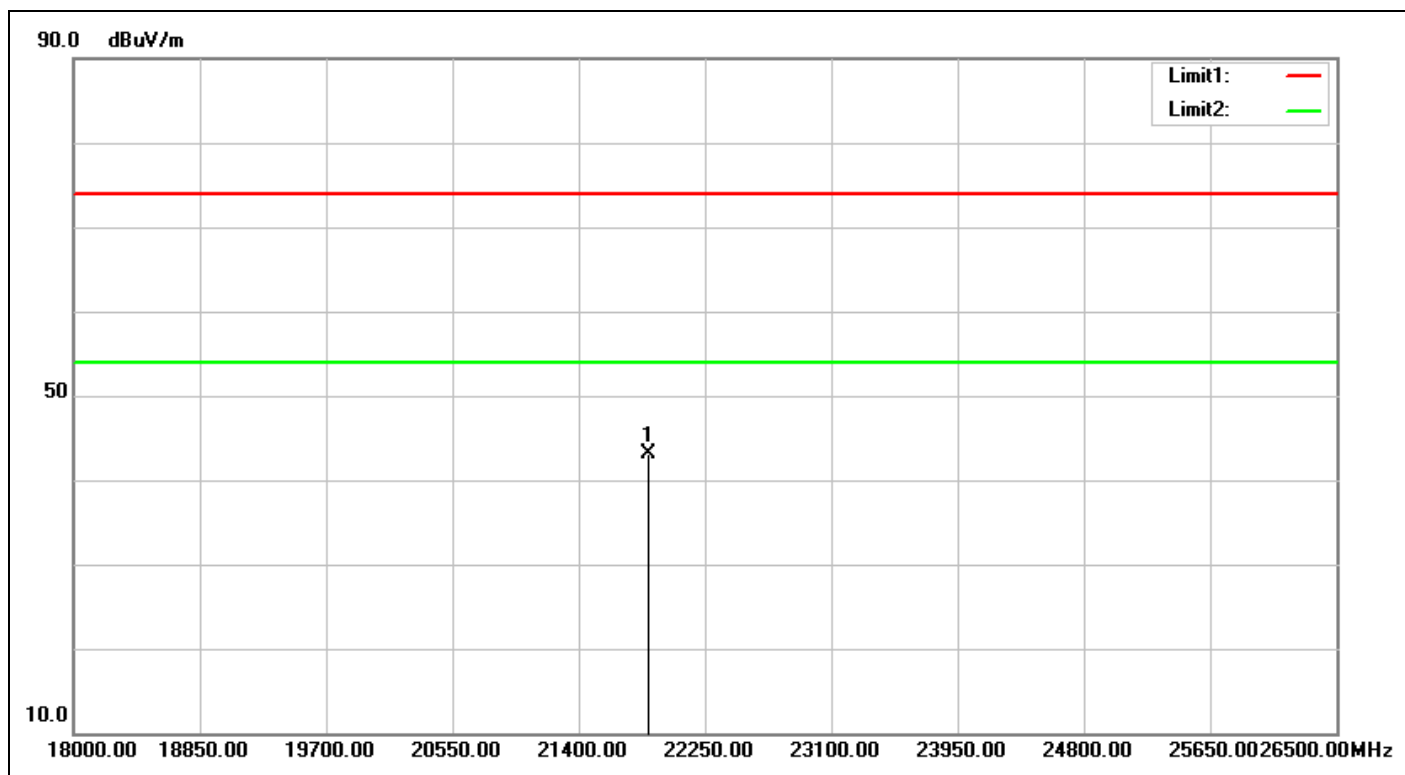
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:24:36
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2462-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		
	setting 27		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	18535.500	4.16	39.93	44.09	74.00	-29.91	peak	100	355	



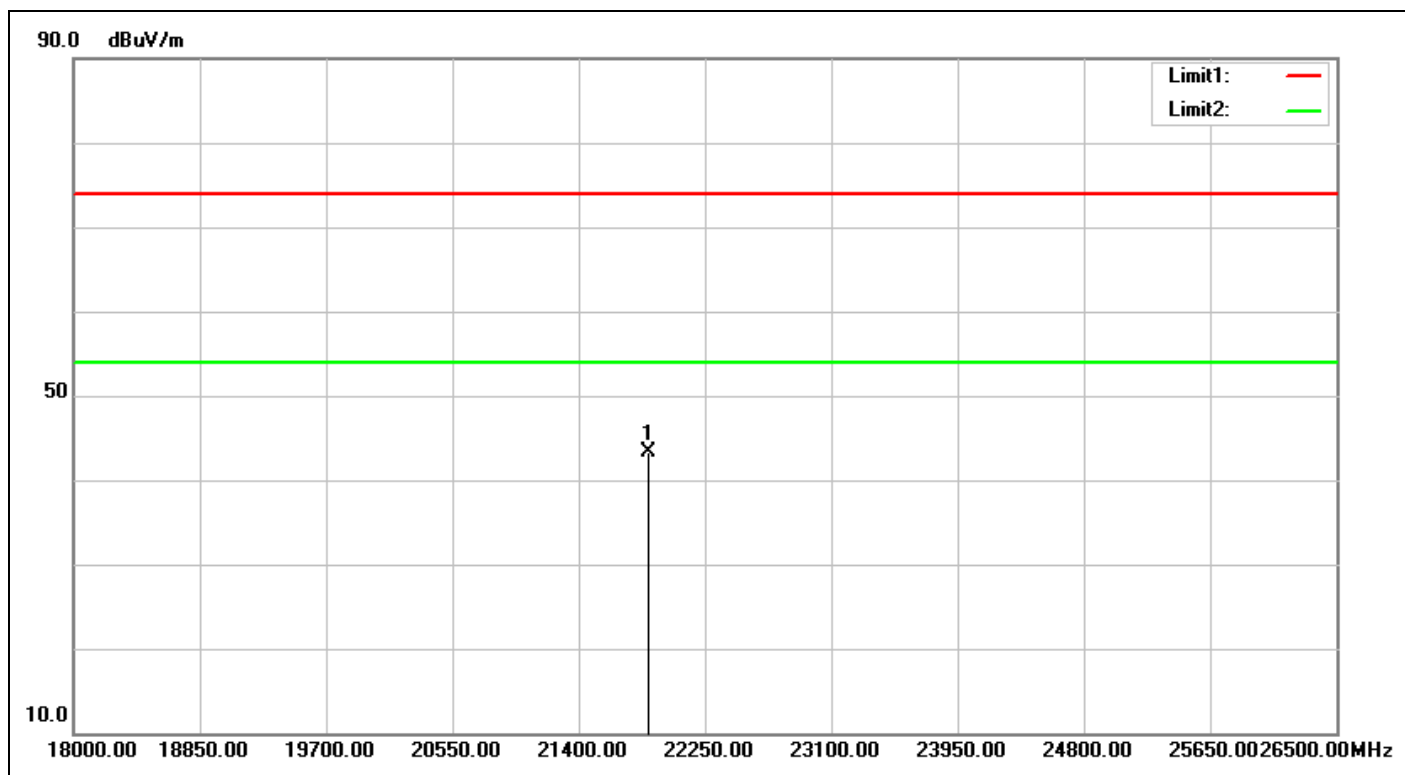
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:24:43
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2462-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 27		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22003.500	4.37	38.75	43.12	74.00	-30.88	peak	100	198	



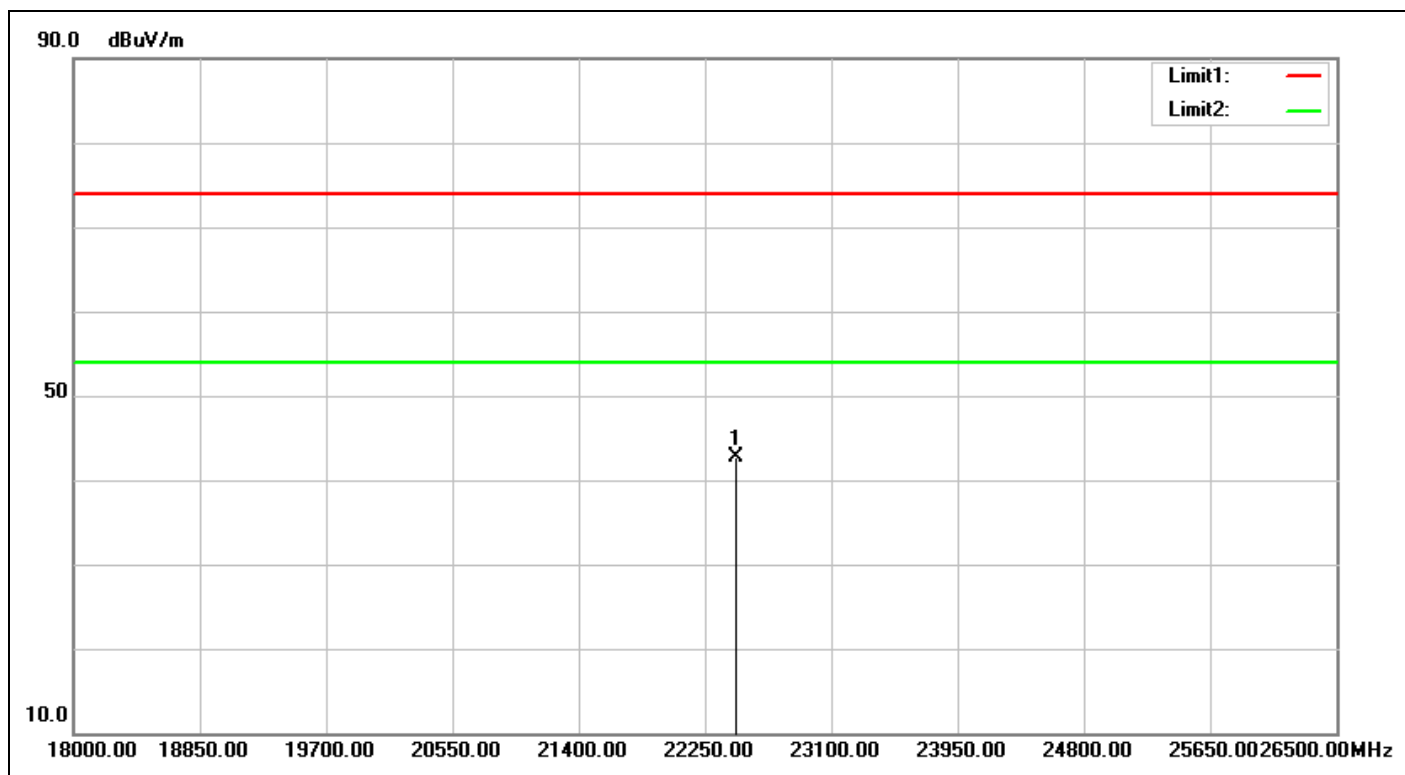
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:25:31
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	G-2412-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 22		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21867.500	4.33	38.73	43.06	74.00	-30.94	peak	100	287	



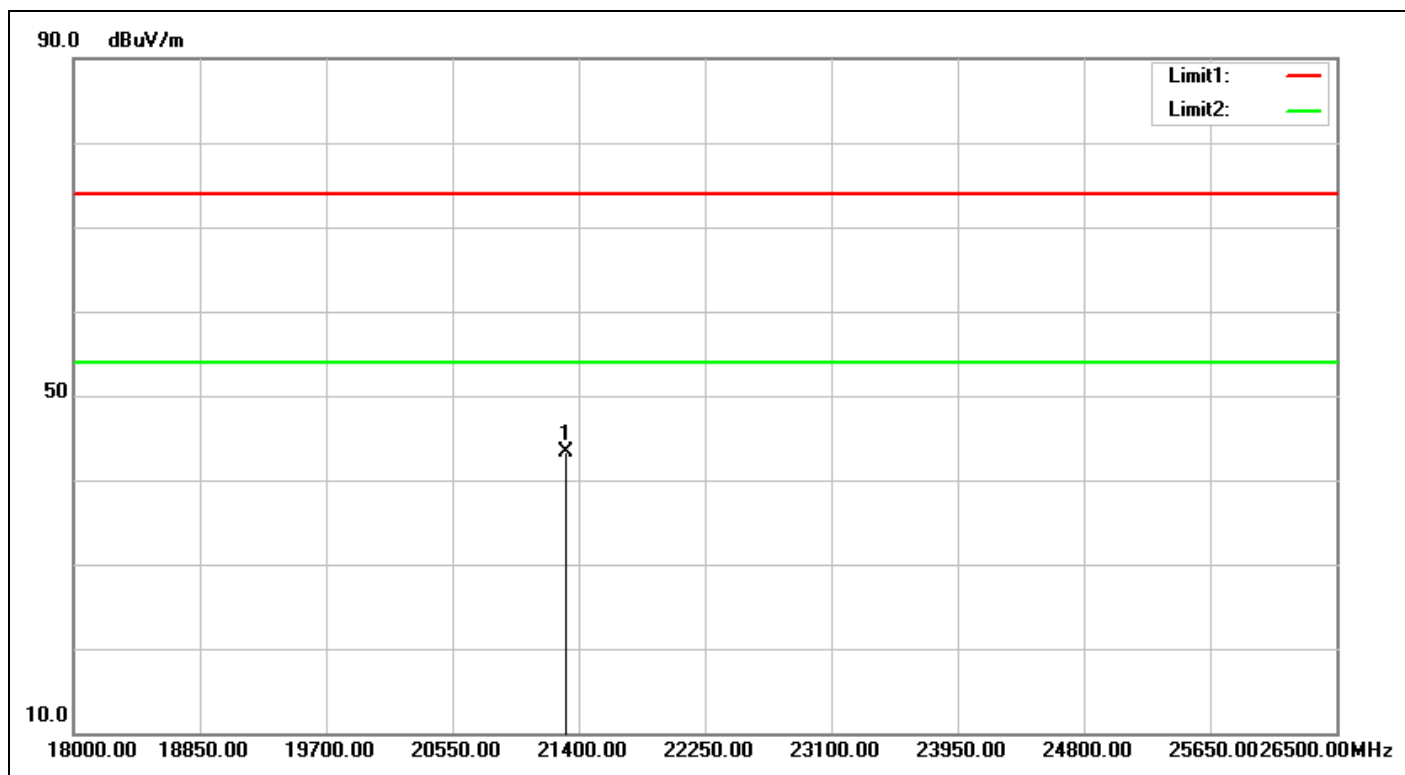
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:25:38
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	G-2412-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 22		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21867.500	4.33	39.05	43.38	74.00	-30.62	peak	100	245	



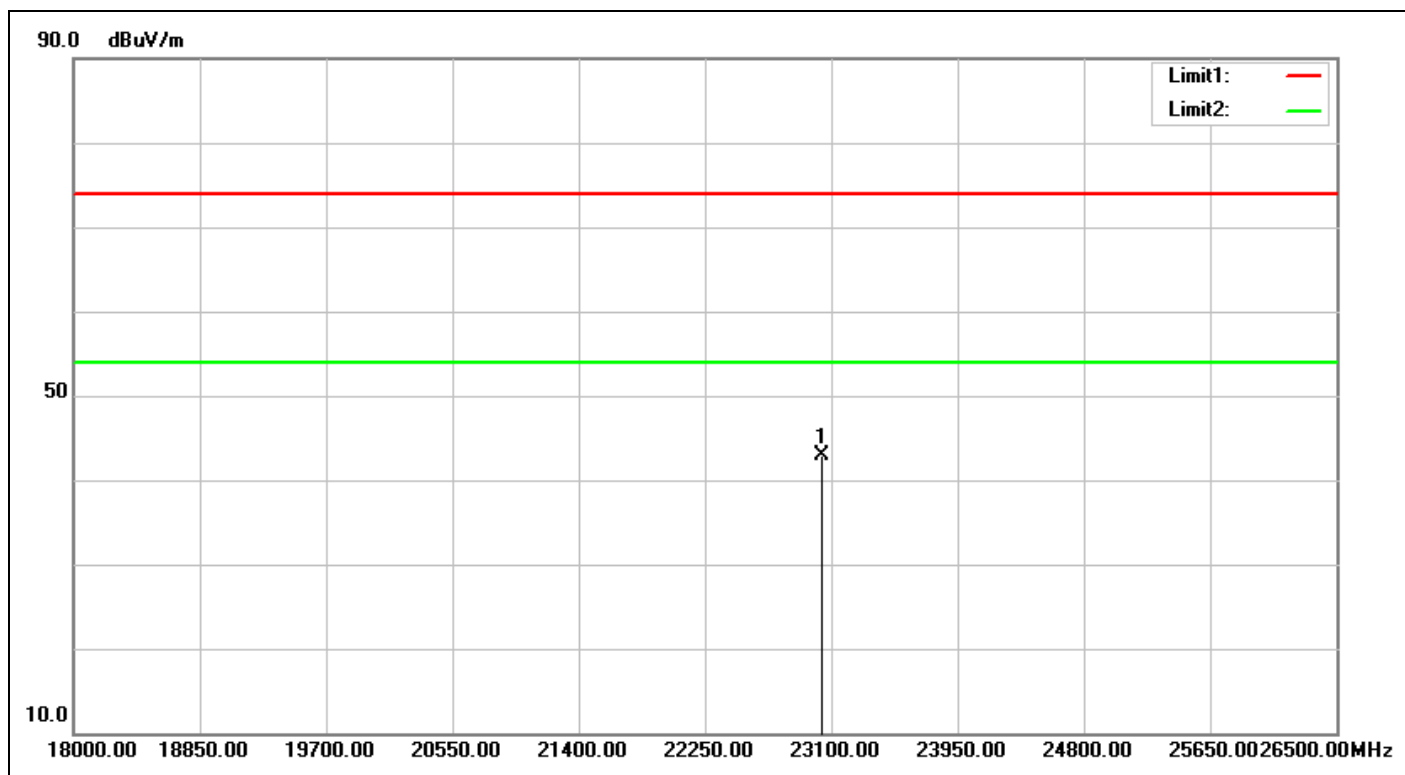
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:26:26
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	G-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 3F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22454.000	4.50	38.17	42.67	74.00	-31.33	peak	100	98	



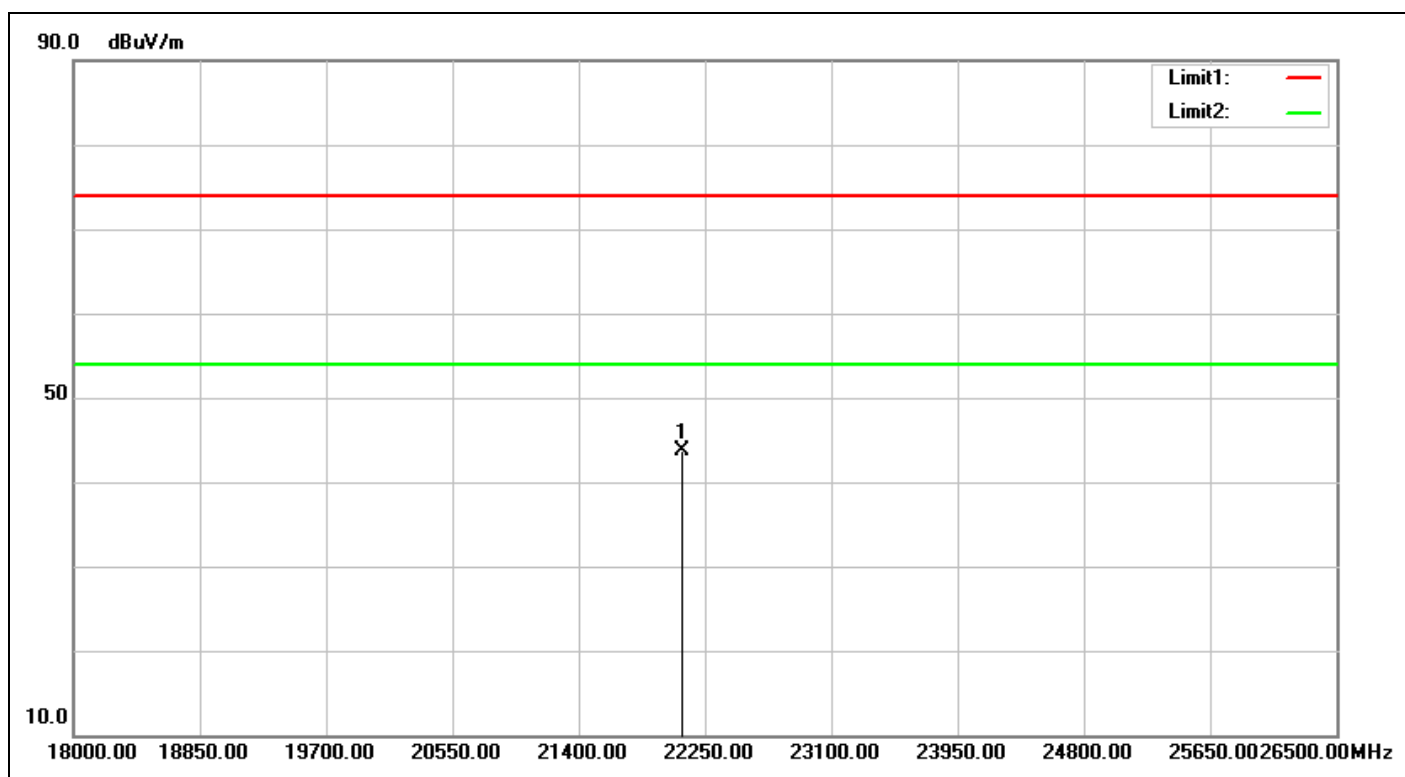
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:26:33
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	G-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 3F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21315.000	4.58	38.76	43.34	74.00	-30.66	peak	100	12	



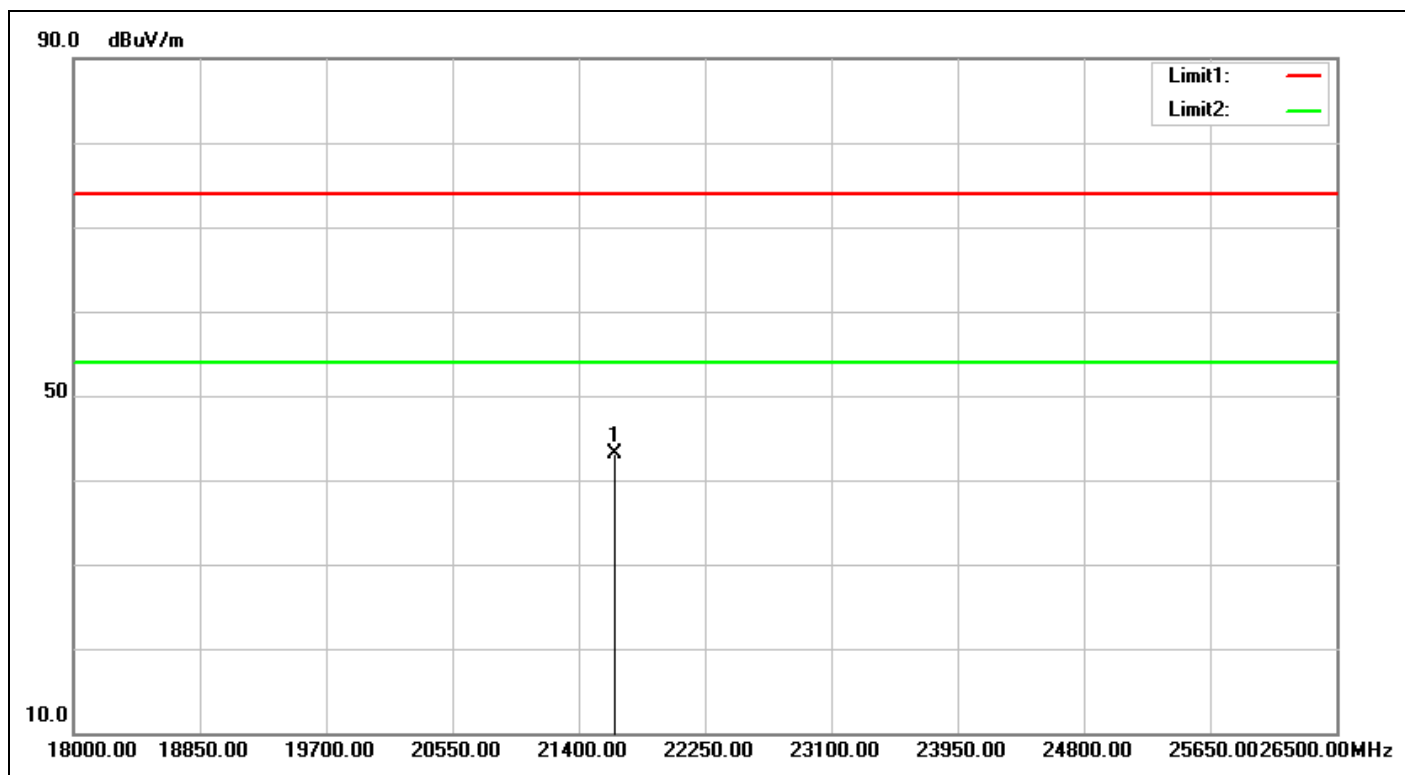
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:27:28
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	G-2462-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 21		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23040.500	5.13	37.86	42.99	74.00	-31.01	peak	100	331	



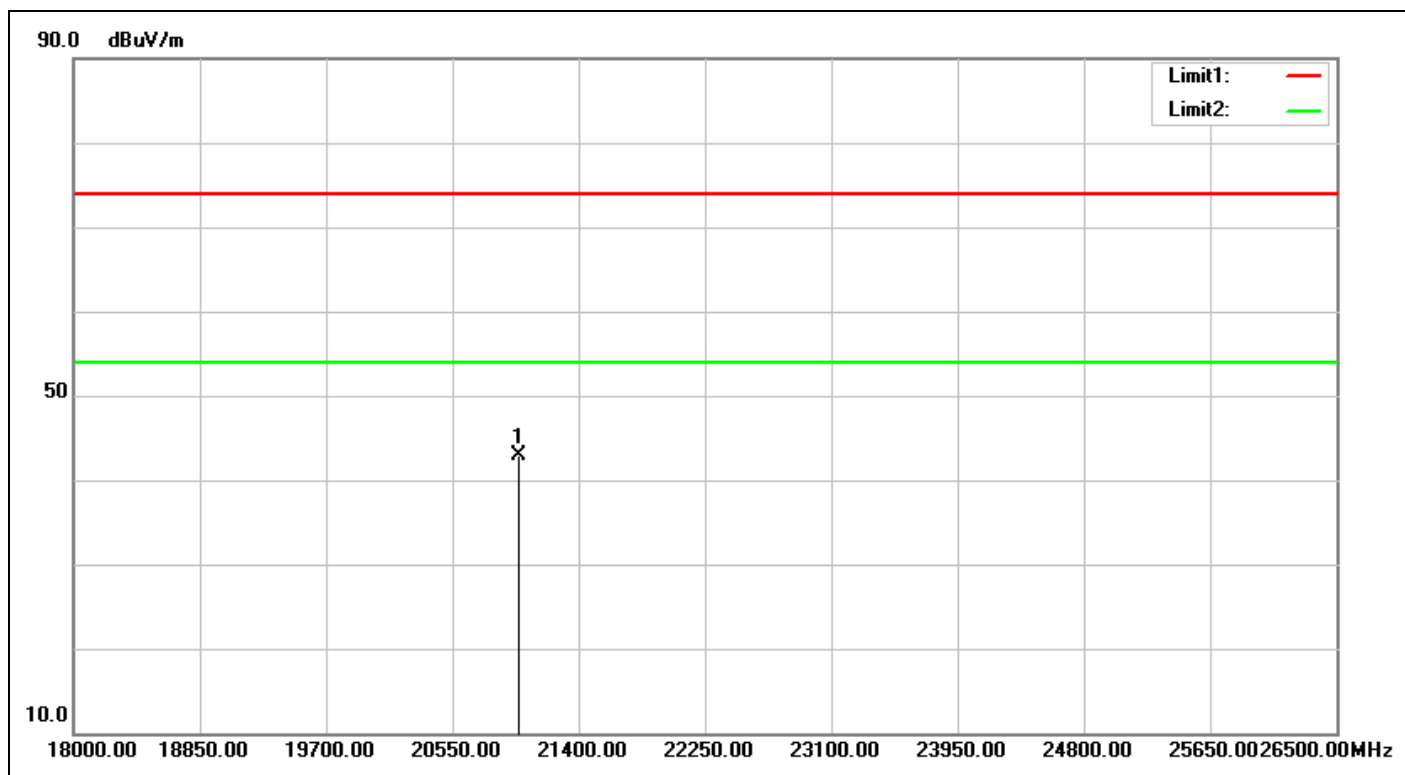
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:27:34
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	G-2462-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 21		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22097.000	4.52	39.19	43.71	74.00	-30.29	peak	100	254	



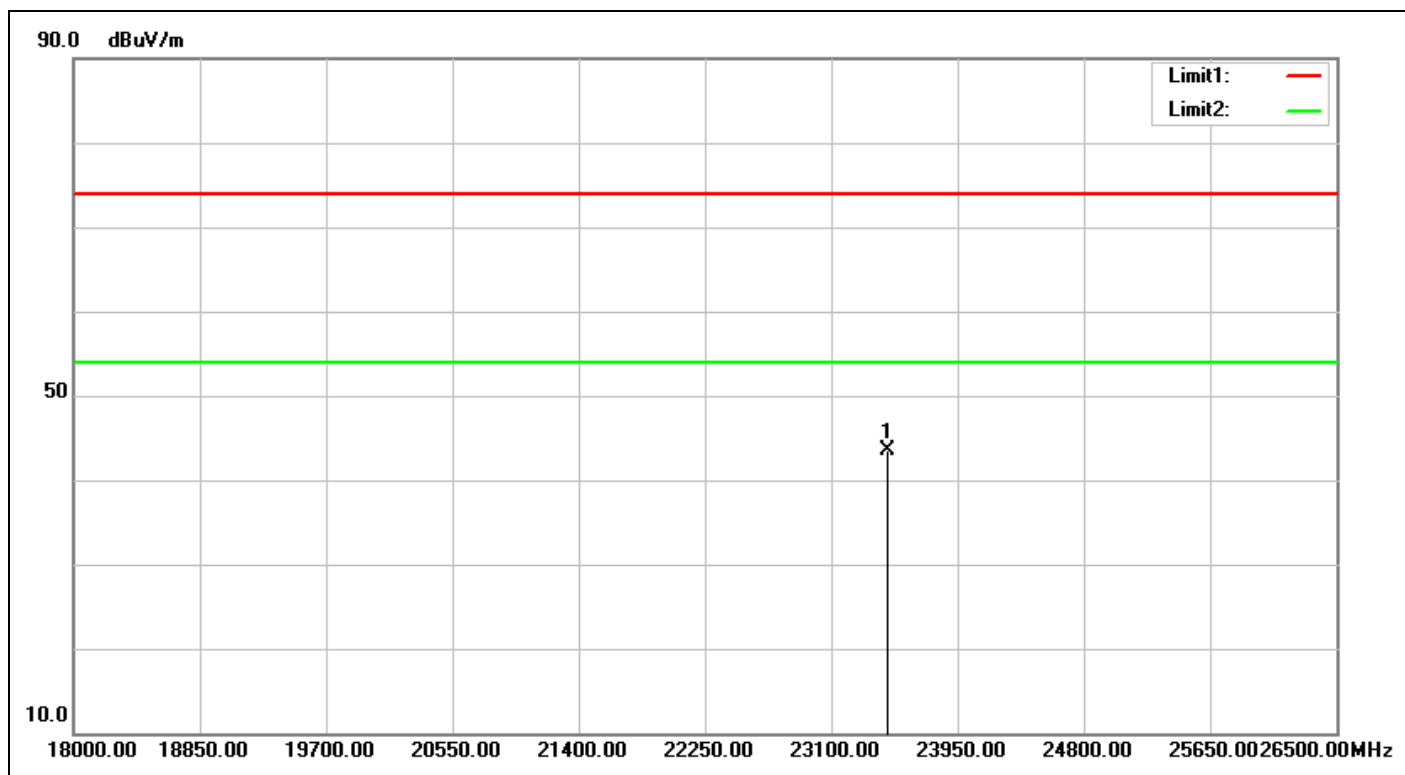
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:28:19
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N20-2412-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 27		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21638.000	4.32	38.83	43.15	74.00	-30.85	peak	100	128	



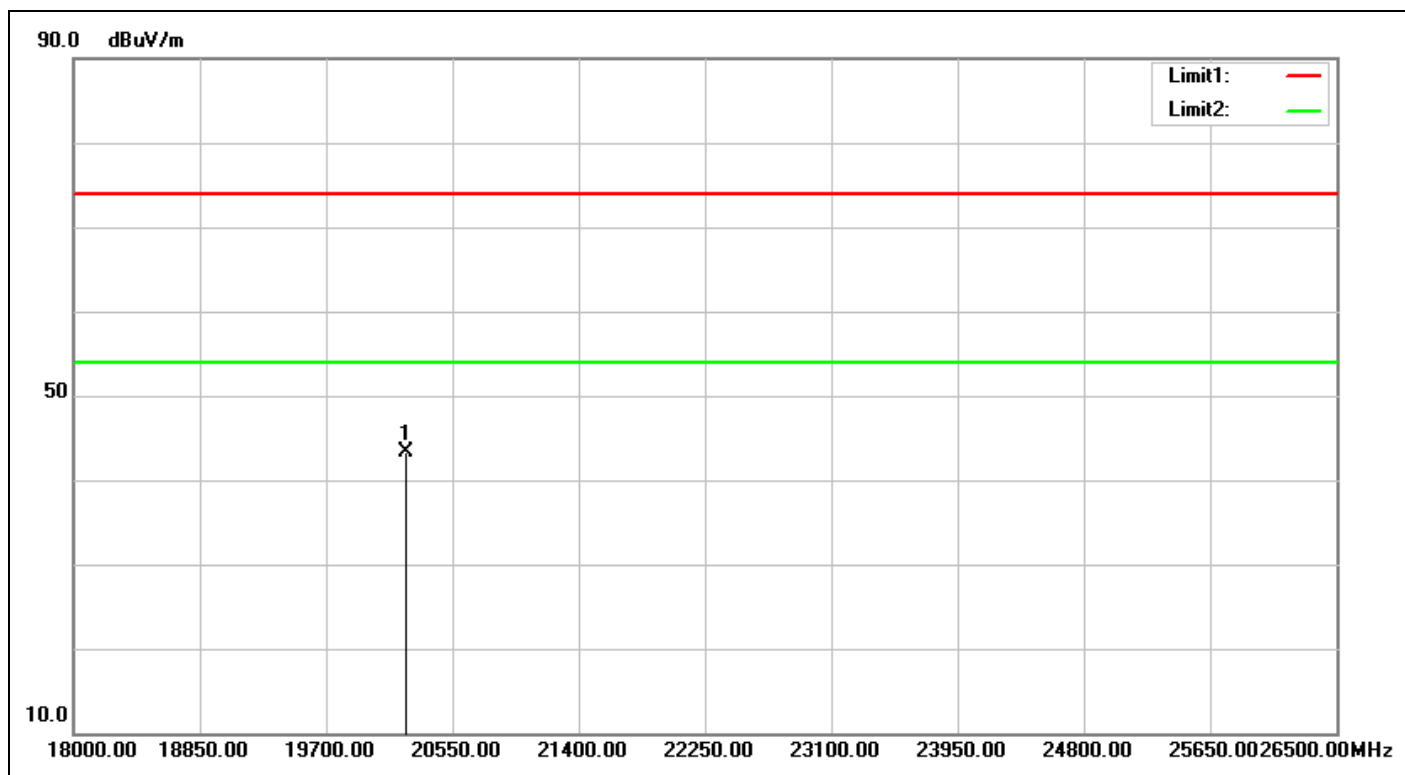
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:28:25
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N20-2412-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		
	setting 27		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20992.000	4.30	38.56	42.86	74.00	-31.14	peak	100	78	



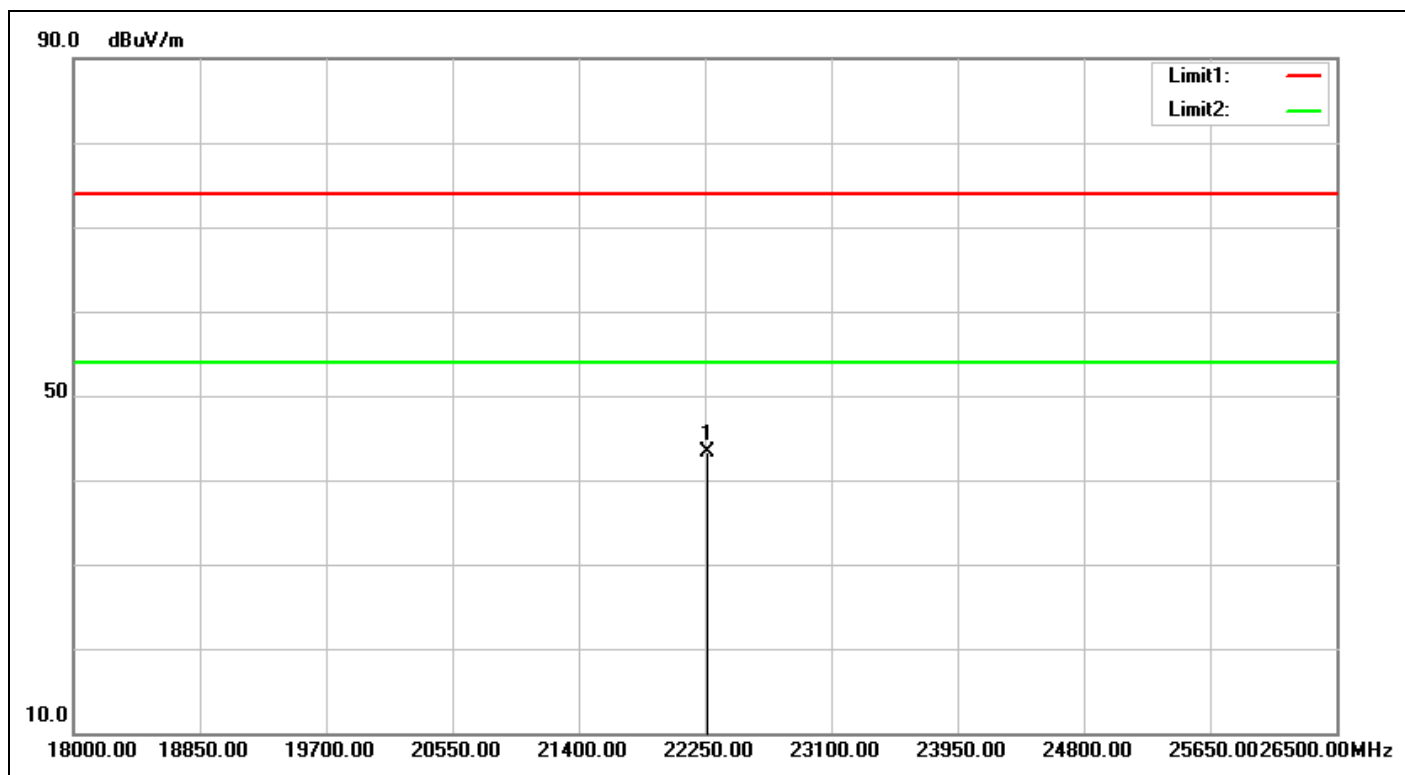
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:29:14
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N20-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		
	setting 3F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23482.500	5.27	38.26	43.53	74.00	-30.47	peak	100	45	



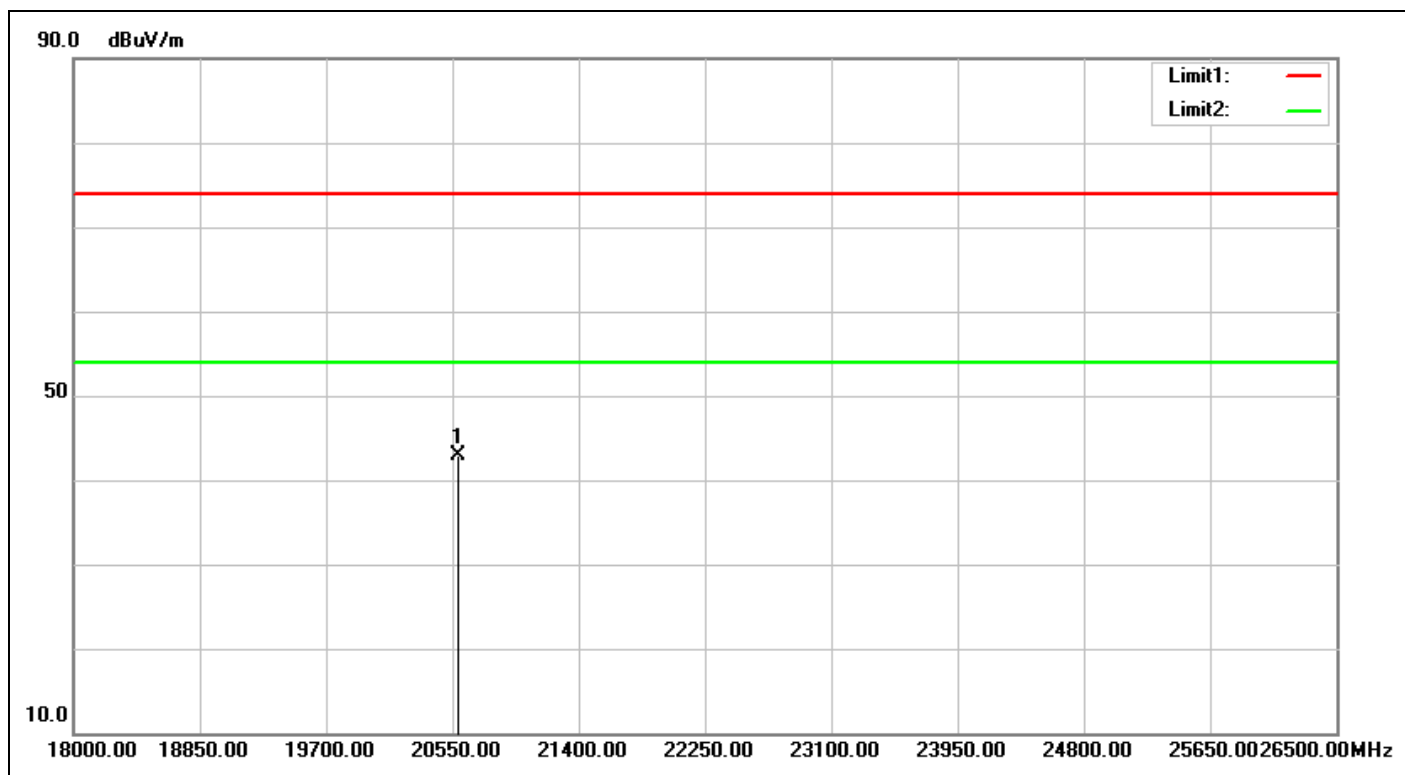
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:29:21
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N20-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 3F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20235.500	4.49	38.84	43.33	74.00	-30.67	peak	100	112	



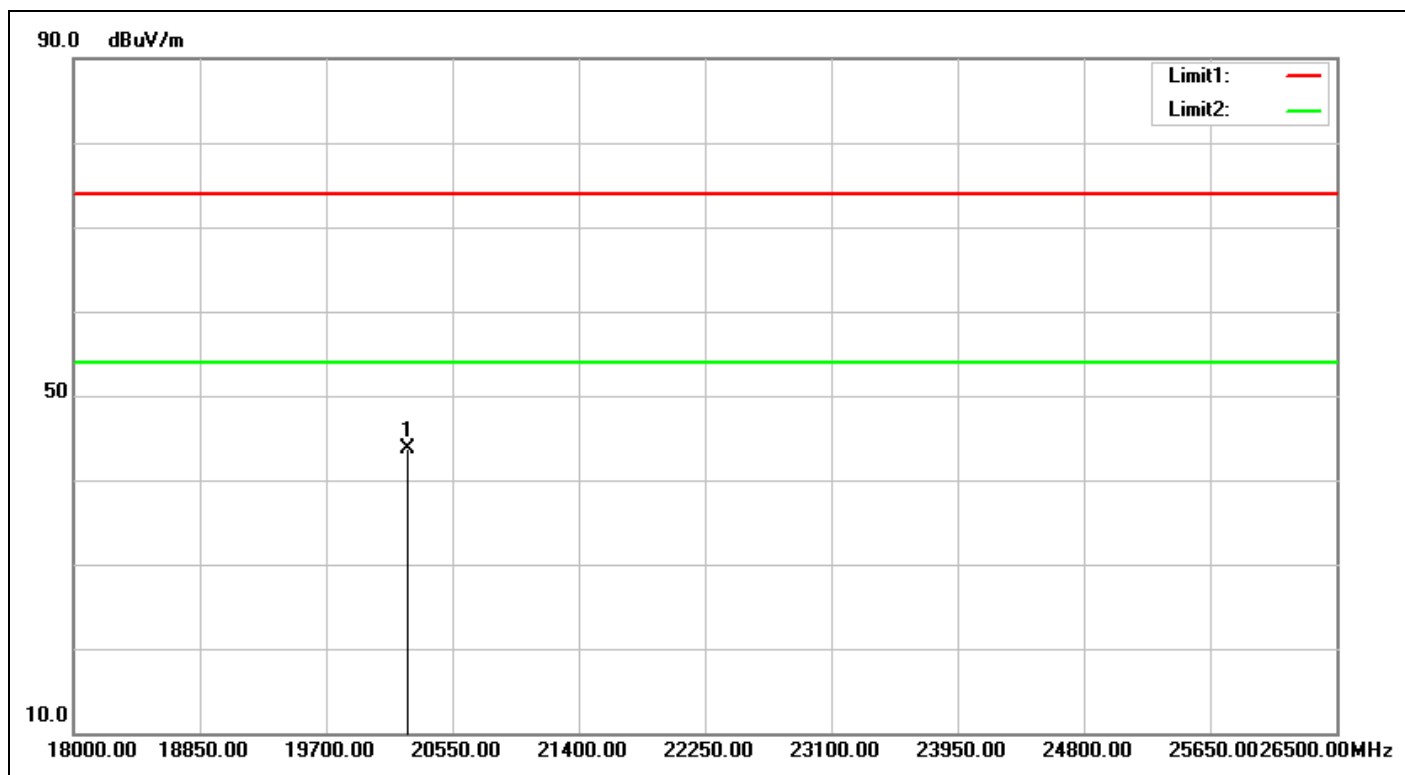
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:29:57
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N20-2462-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 27		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22267.000	4.74	38.57	43.31	74.00	-30.69	peak	100	41	



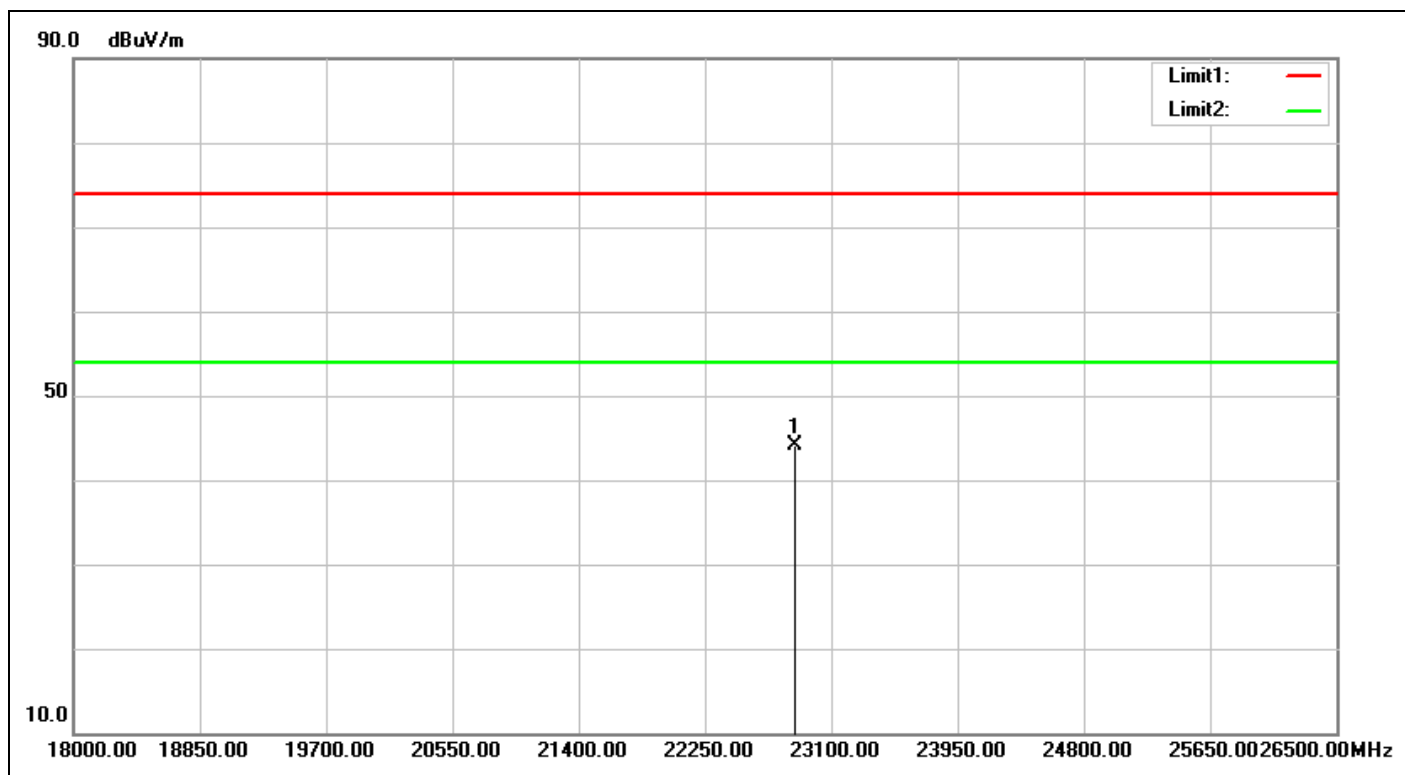
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:30:04
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N20-2462-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		
	setting 27		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20592.500	4.25	38.72	42.97	74.00	-31.03	peak	100	222	



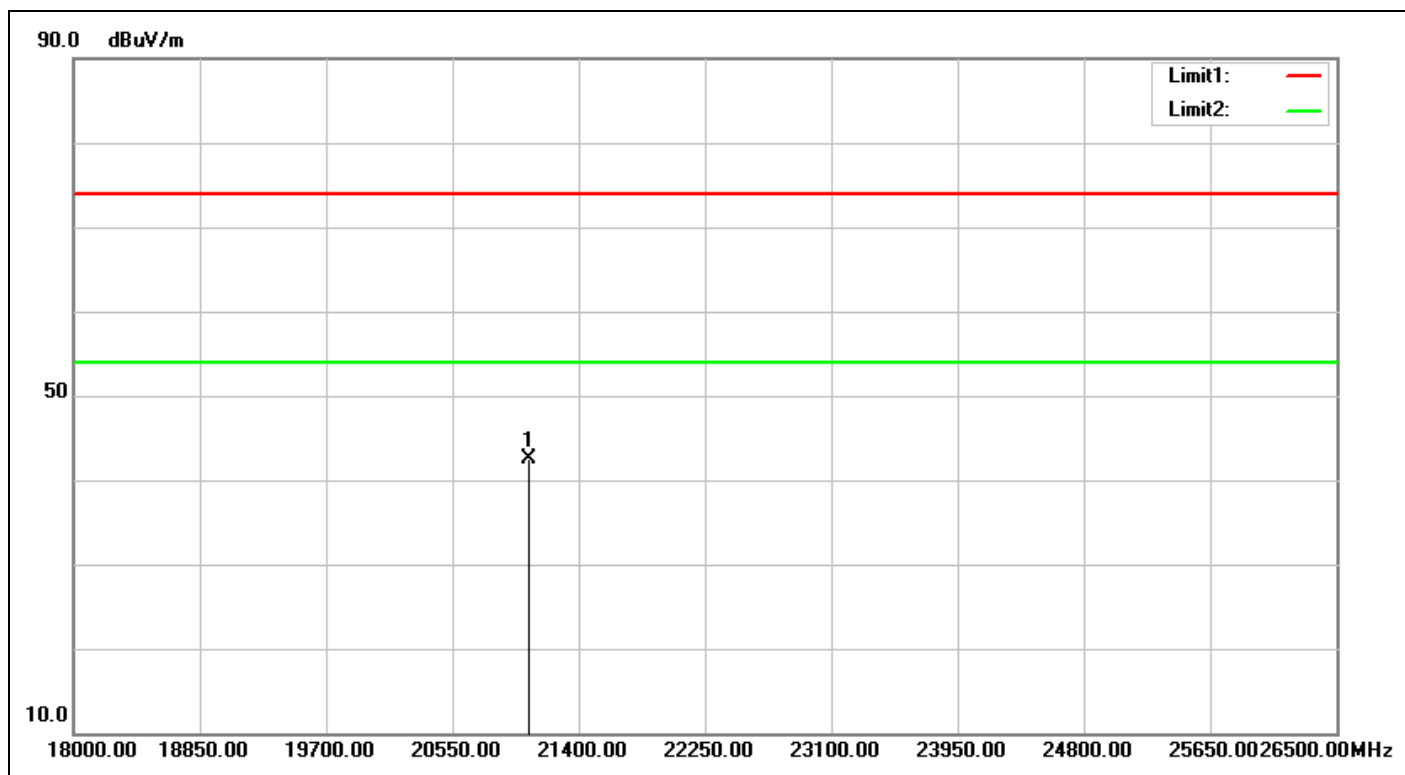
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:30:45
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N40-2422-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20252.500	4.53	39.23	43.76	74.00	-30.24	peak	100	87	



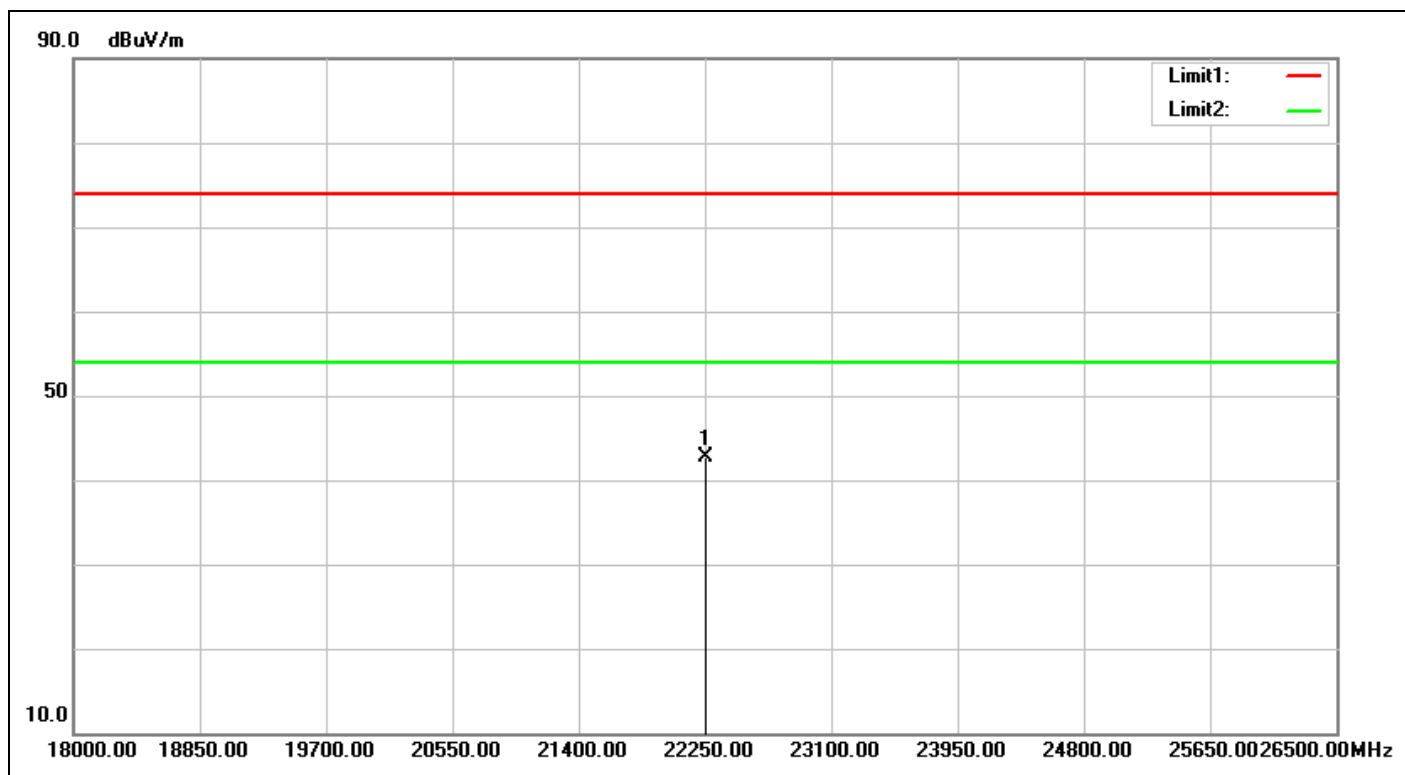
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:30:51
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N40-2422-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		
	setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22853.500	4.88	39.20	44.08	74.00	-29.92	peak	100	1	



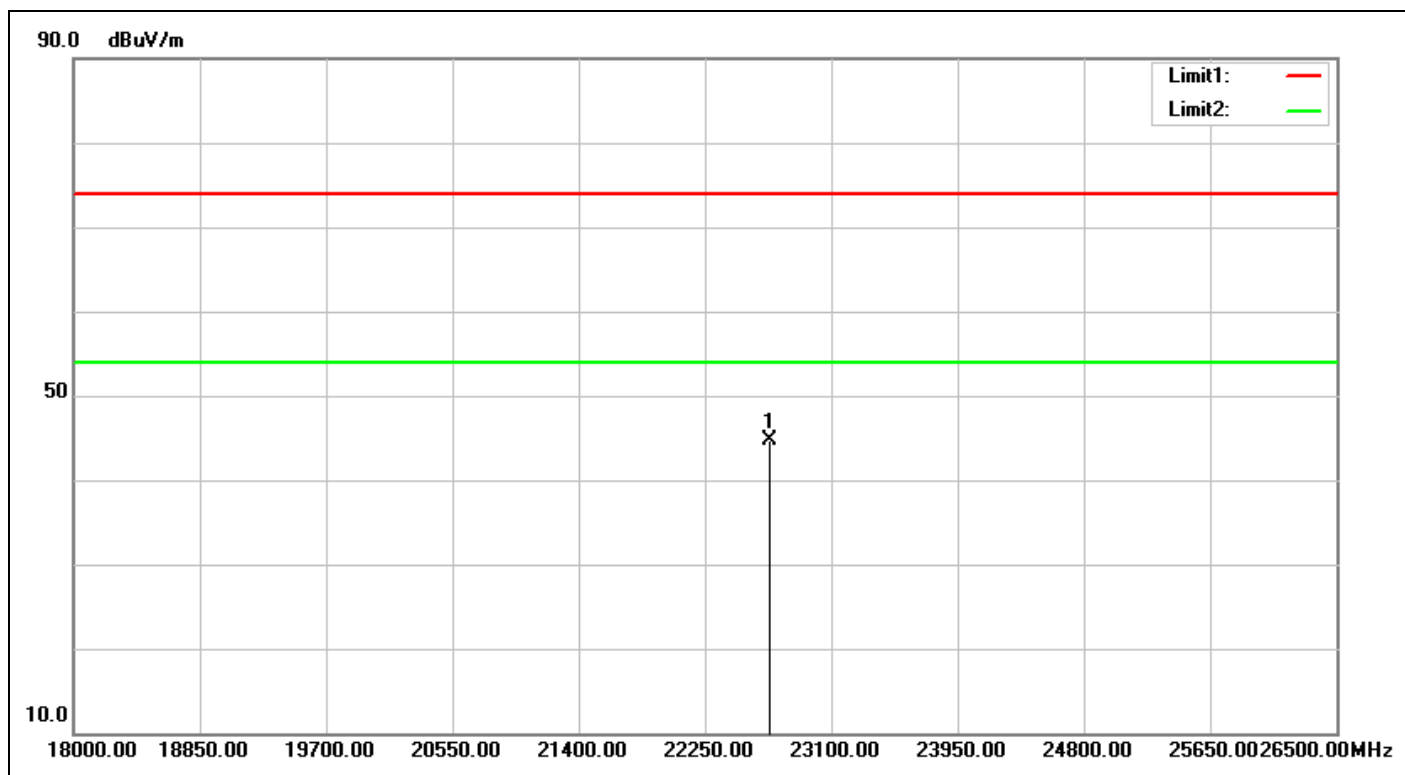
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:31:25
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N40-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 3F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21068.500	4.39	38.18	42.57	74.00	-31.43	peak	100	333	



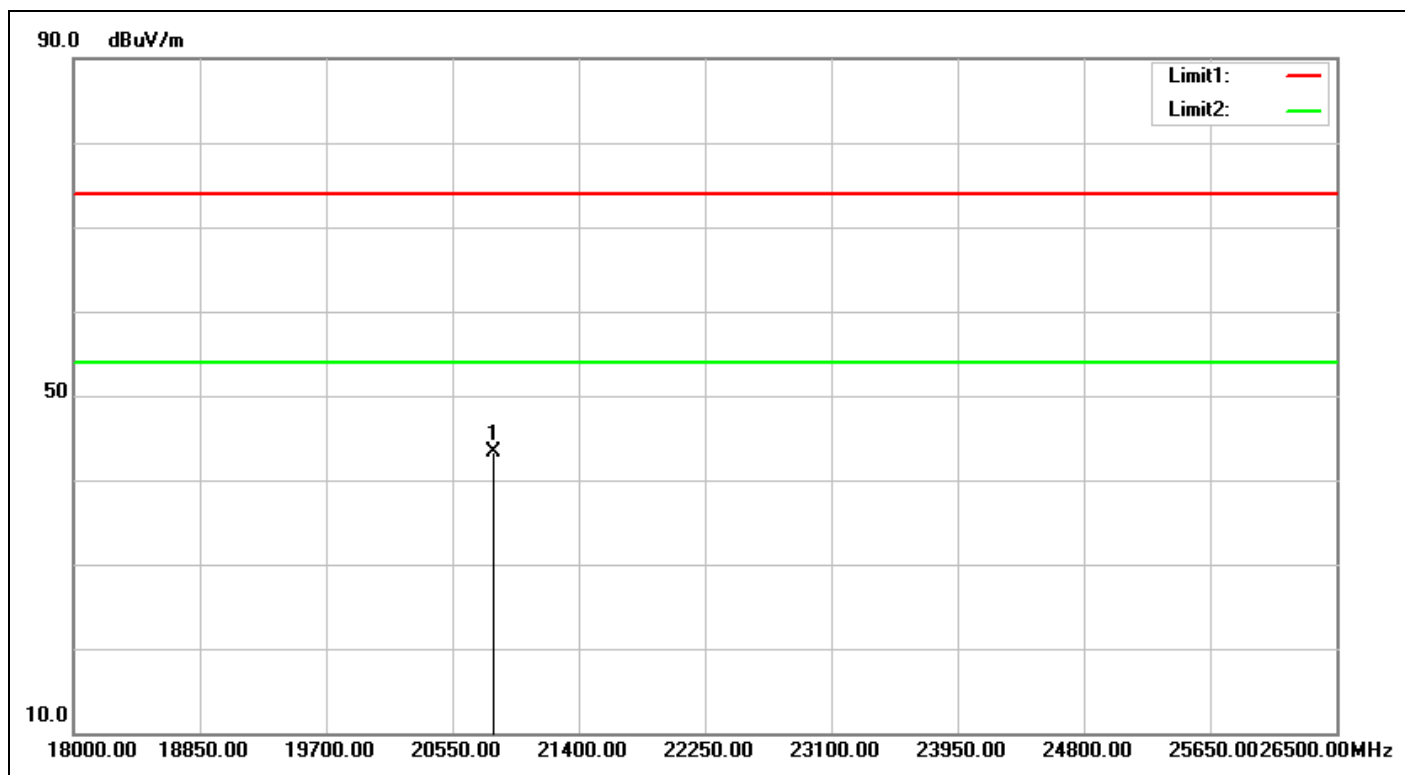
Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:31:32
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N40-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 3F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22250.000	4.76	37.96	42.72	74.00	-31.28	peak	100	47	



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:32:11
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N40-2452-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		
	setting 20		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22683.500	4.65	40.14	44.79	74.00	-29.21	peak	100	222	



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:32:17
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	N40-2452-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		
	setting 20		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20830.500	4.33	38.91	43.24	74.00	-30.76	peak	100	145	

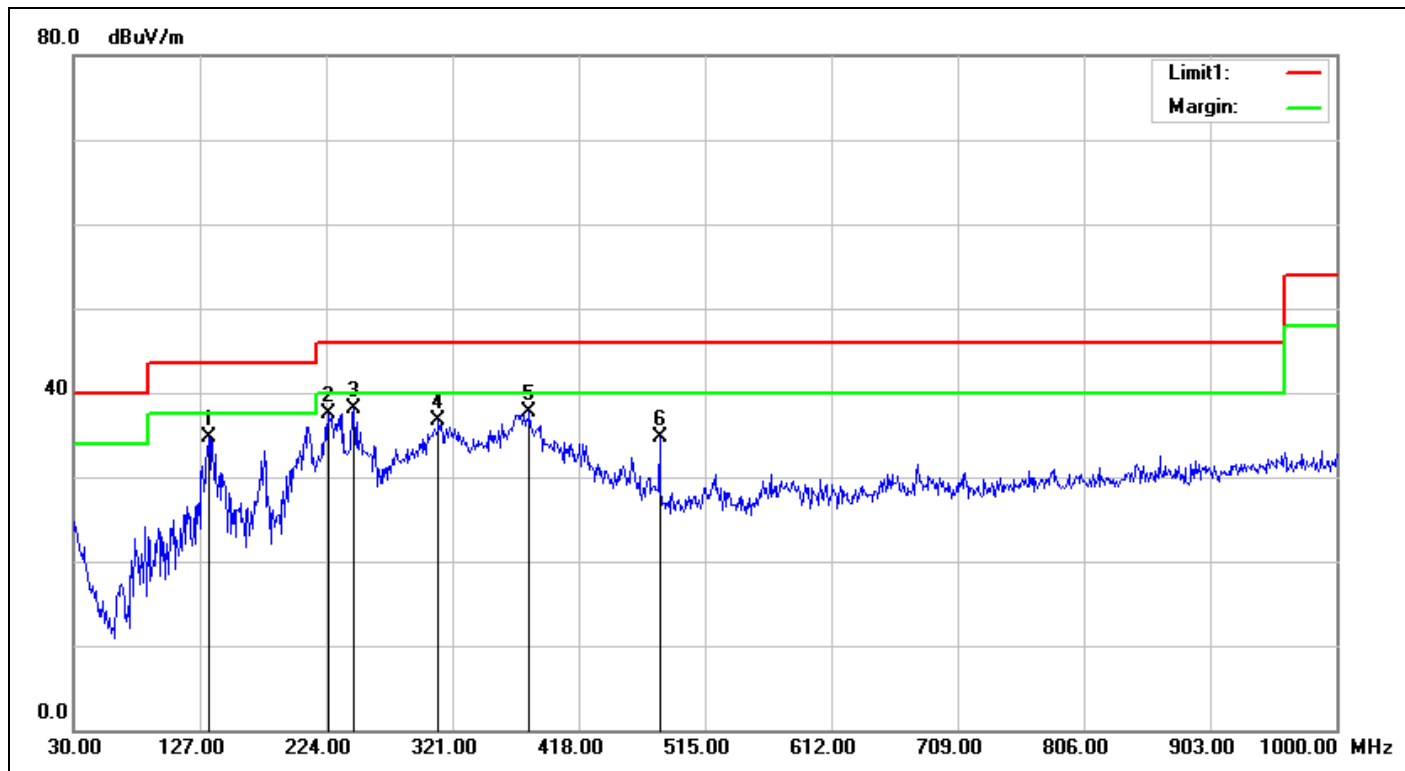
Spurious Emissions, TX Mode, 30M-1G



TUV Rheinland Taiwan Ltd.

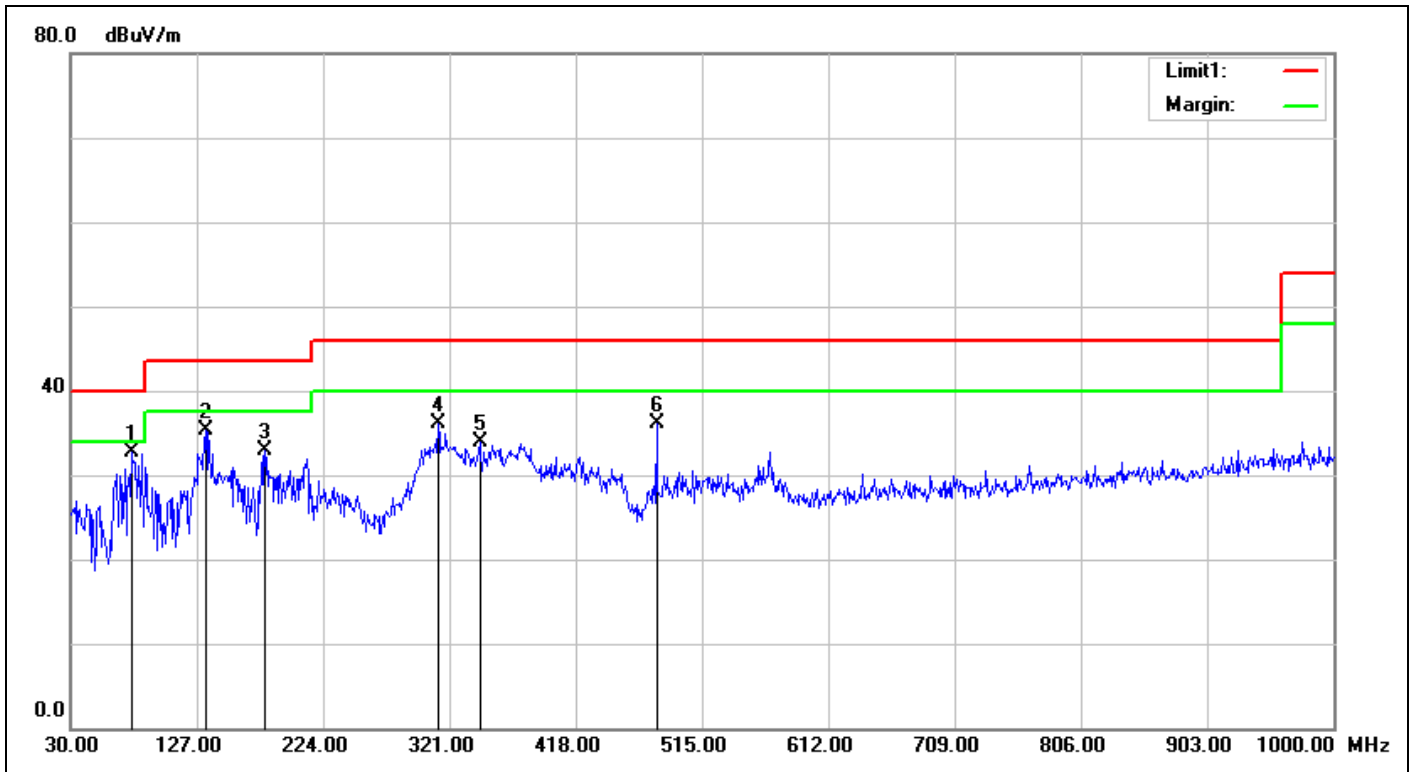
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:46:49
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	133.7899	-6.95	41.68	34.73	43.50	-8.77	QP	100	128	
2	225.9399	-7.85	45.29	37.44	46.00	-8.56	QP	100	91	
3	245.3400	-6.18	44.33	38.15	46.00	-7.85	QP	100	295	
4	310.3299	-4.50	41.28	36.78	46.00	-9.22	QP	100	115	
5	380.1700	-2.90	40.53	37.63	46.00	-8.37	QP	100	144	
6	480.0799	-1.52	36.27	34.75	46.00	-11.25	QP	100	262	



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:47:42
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module		
	setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	76.5600	-12.31	44.98	32.67	40.00	-7.33	QP	100	255	
2	133.7899	-6.95	42.25	35.30	43.50	-8.20	QP	100	239	
3	179.3800	-9.59	42.54	32.95	43.50	-10.55	QP	100	130	
4	312.2700	-4.47	40.56	36.09	46.00	-9.91	QP	100	1	
5	344.2800	-3.51	37.35	33.84	46.00	-12.16	QP	100	176	
6	480.0800	-1.52	37.63	36.11	46.00	-9.89	QP	100	192	

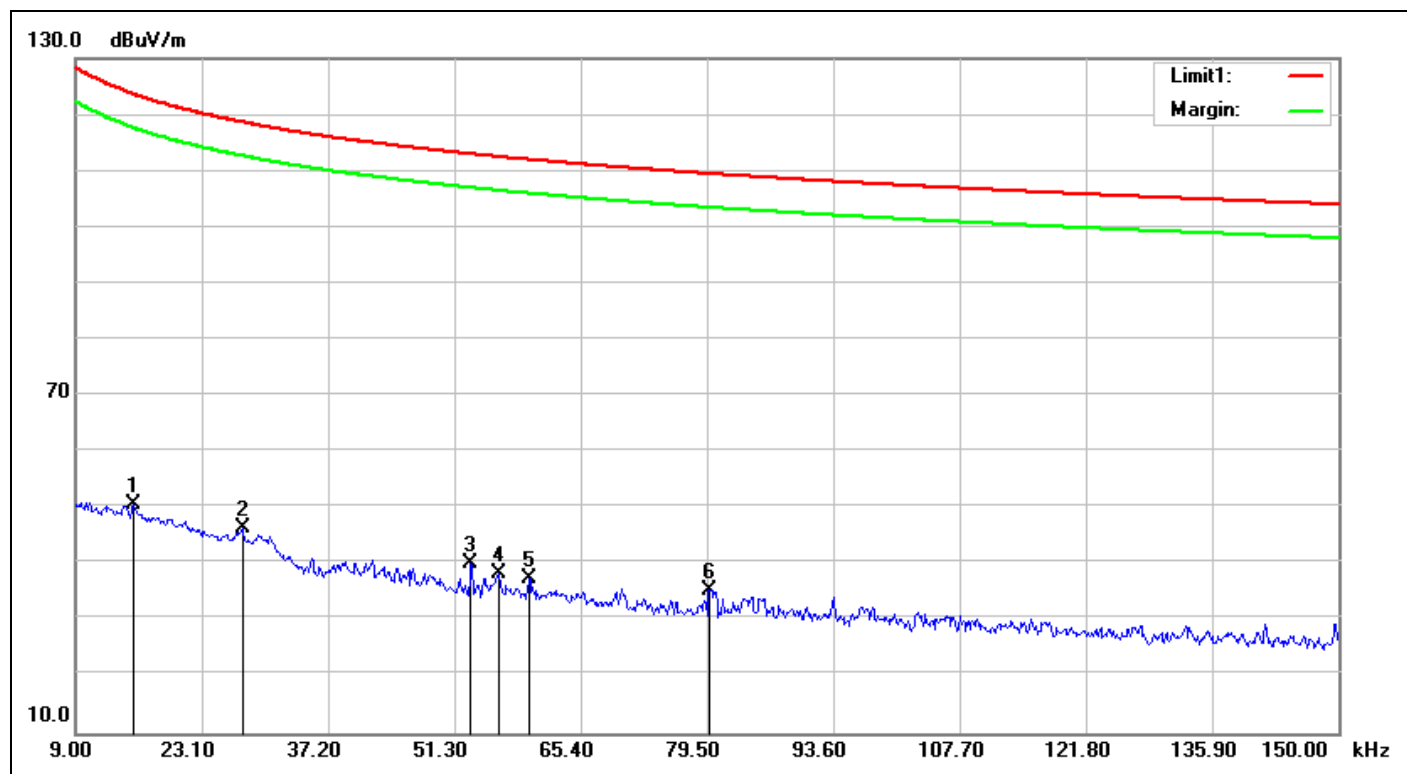
Spurious Emissions, TX Mode, 9K-30M



TUV Rheinland Taiwan Ltd.

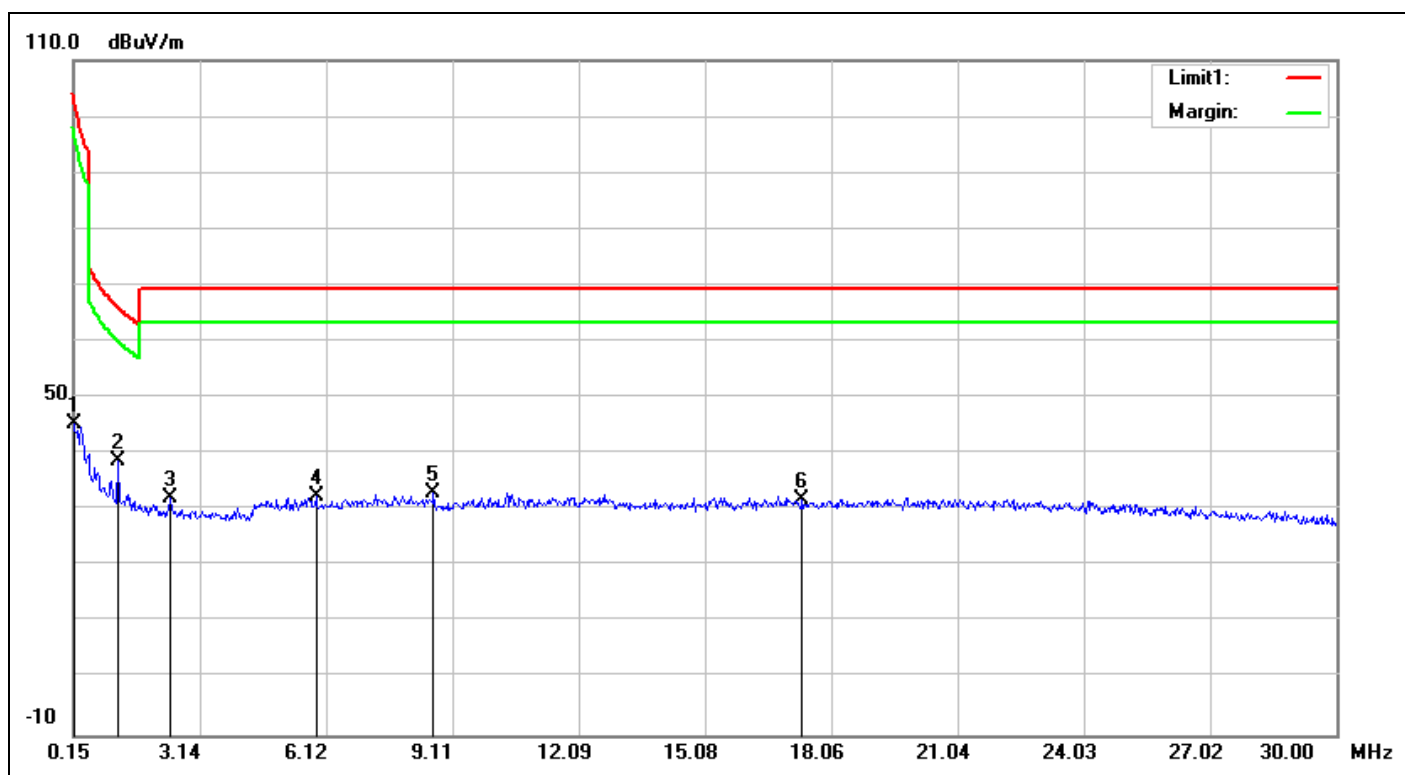
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2019/2/18 21:54:55
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0154	18.74	31.82	50.56	123.67	-73.11	QP	100	72	
2	0.0276	19.23	27.18	46.41	118.63	-72.22	QP	100	101	
3	0.0531	18.88	21.22	40.10	112.98	-72.88	QP	100	164	
4	0.0562	18.85	19.42	38.27	112.49	-74.22	QP	100	168	
5	0.0596	18.80	18.78	37.58	111.99	-74.41	QP	100	168	
6	0.0797	18.56	16.86	35.42	109.48	-74.06	QP	100	164	



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2019/2/18 21:57:29
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1500	18.35	27.13	45.48	104.02	-58.54	QP	100	163	
2	1.1947	18.66	20.06	38.72	66.08	-27.36	QP	100	256	
3	2.4484	18.57	13.55	32.12	69.50	-37.38	QP	100	265	
4	5.8811	19.64	12.87	32.51	69.50	-36.99	QP	100	36	
5	8.6572	20.18	12.97	33.15	69.50	-36.35	QP	100	242	
6	17.3733	21.30	10.57	31.87	69.50	-37.63	QP	100	341	

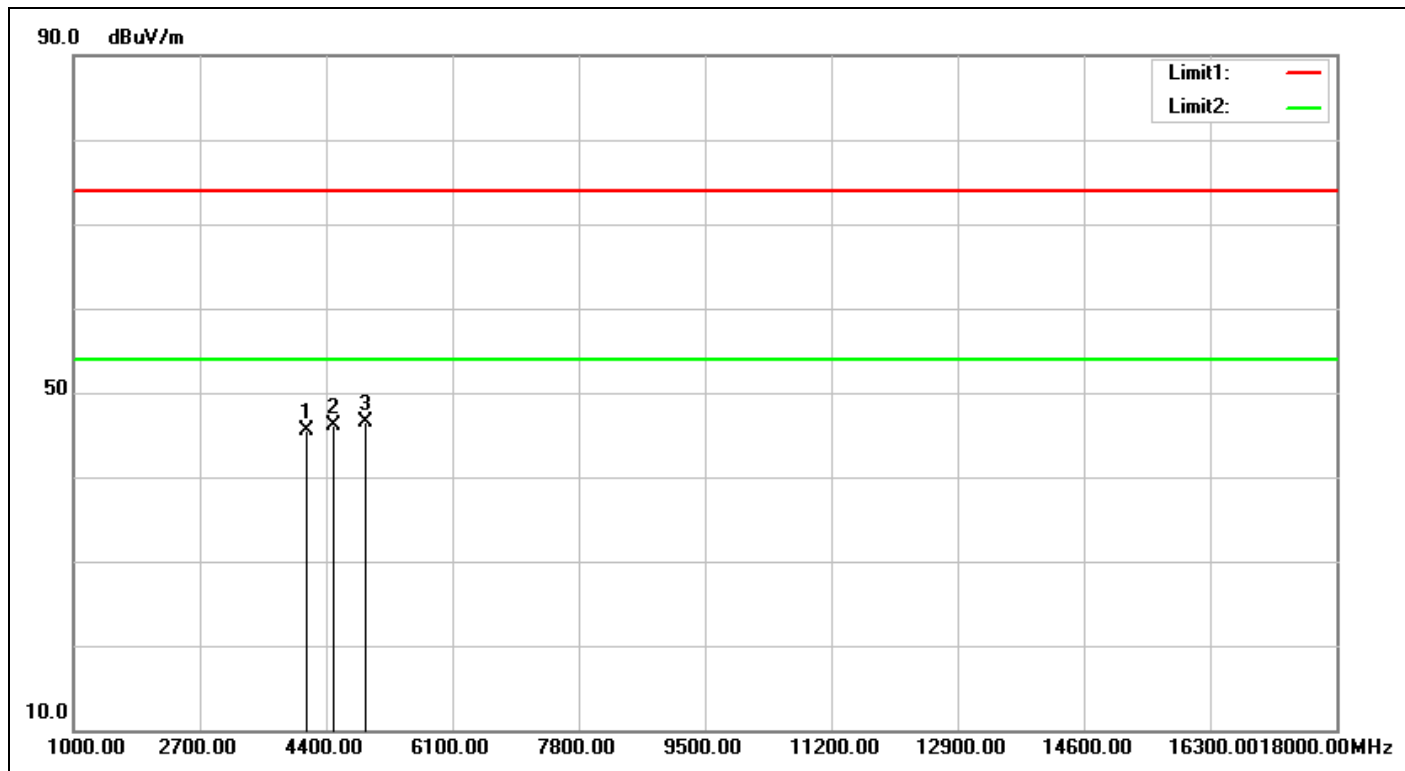
Spurious Emissions, RX Mode, 1-18G



TUV Rheinland Taiwan Ltd.

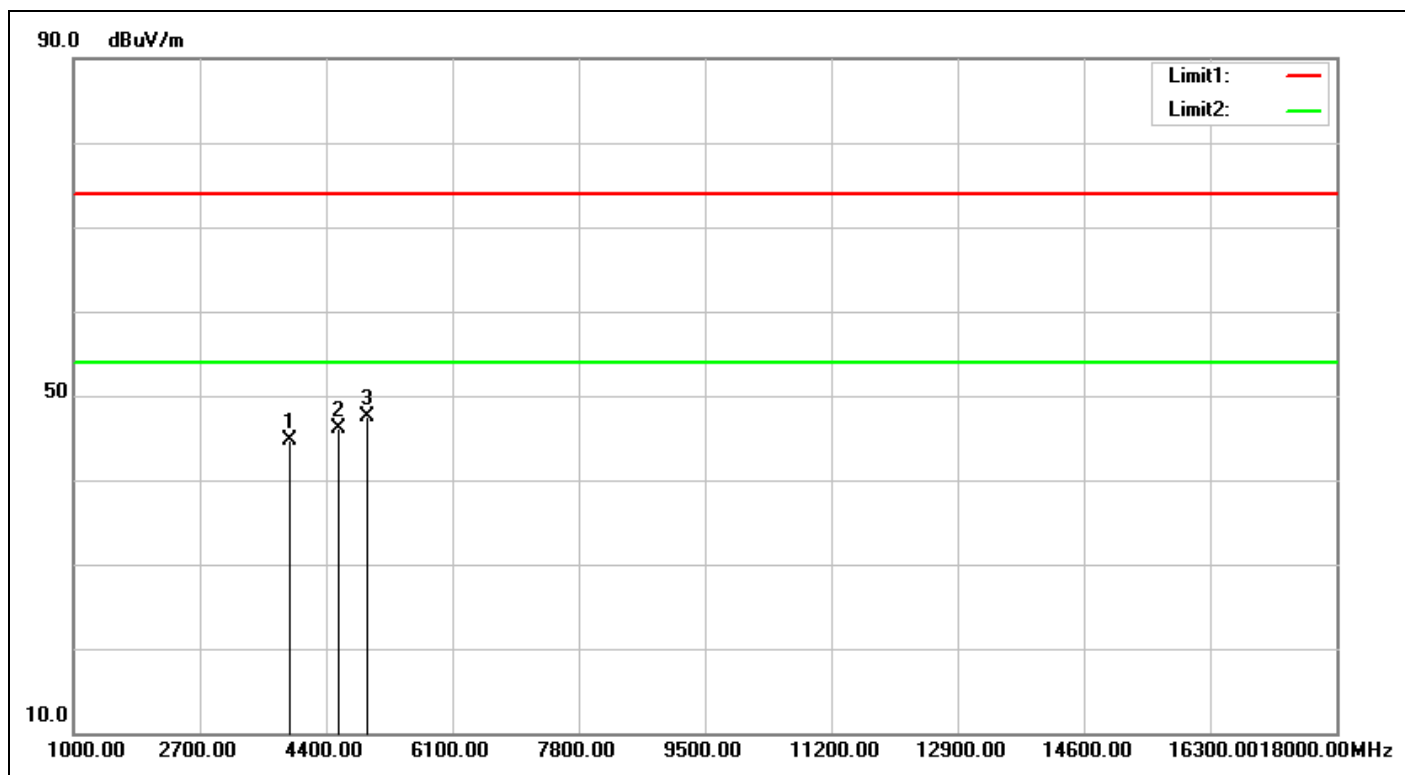
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:11:25
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4145.000	-5.19	50.72	45.53	74.00	-28.47	peak	100	116	
2	4502.000	-3.88	50.04	46.16	74.00	-27.84	peak	100	351	
3	4927.000	-3.28	49.77	46.49	74.00	-27.51	peak	100	154	



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:12:17
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3907.000	-5.94	50.70	44.76	74.00	-29.24	peak	100	227	
2	4570.000	-3.78	49.97	46.19	74.00	-27.81	peak	100	12	
3	4944.000	-3.25	50.83	47.58	74.00	-26.42	peak	100	347	

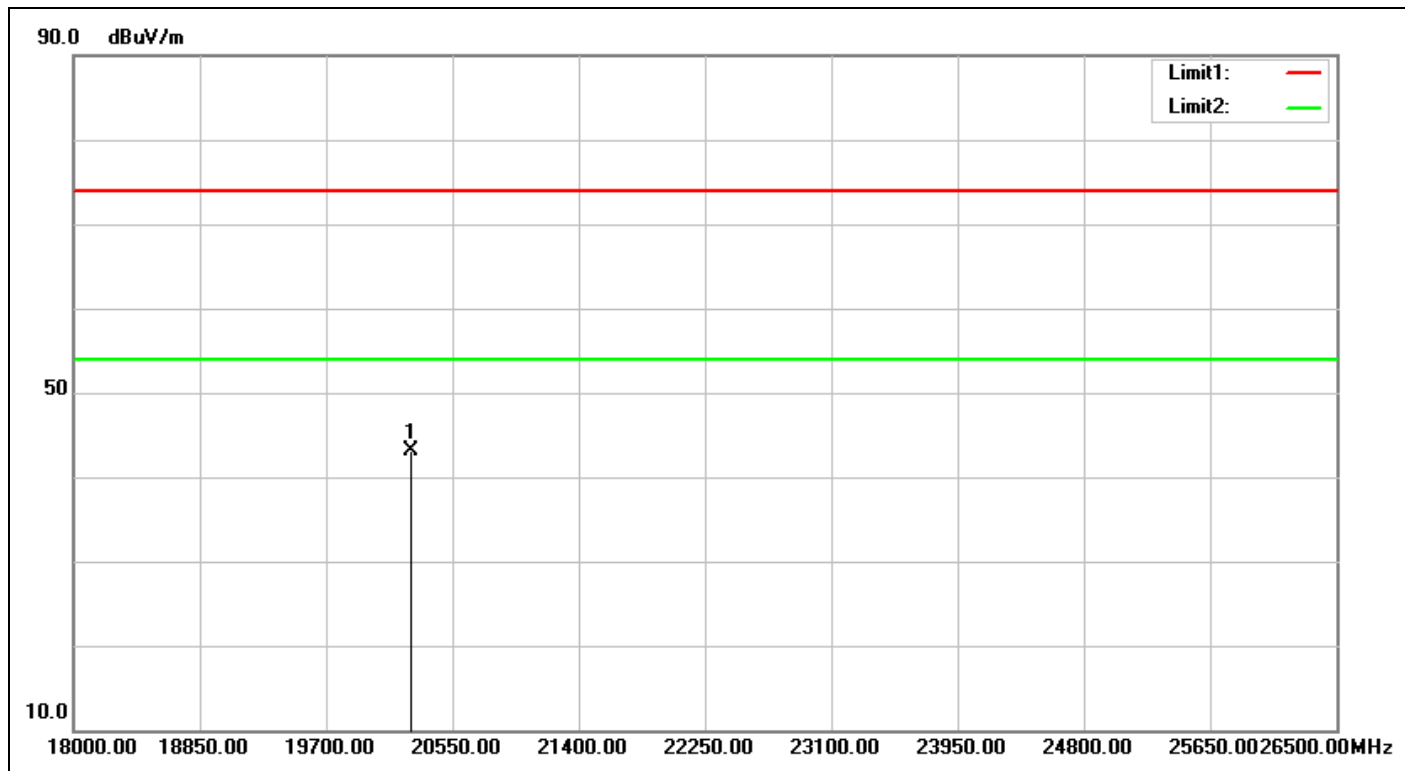
Spurious Emissions, RX Mode, 18-26.5G



TUV Rheinland Taiwan Ltd.

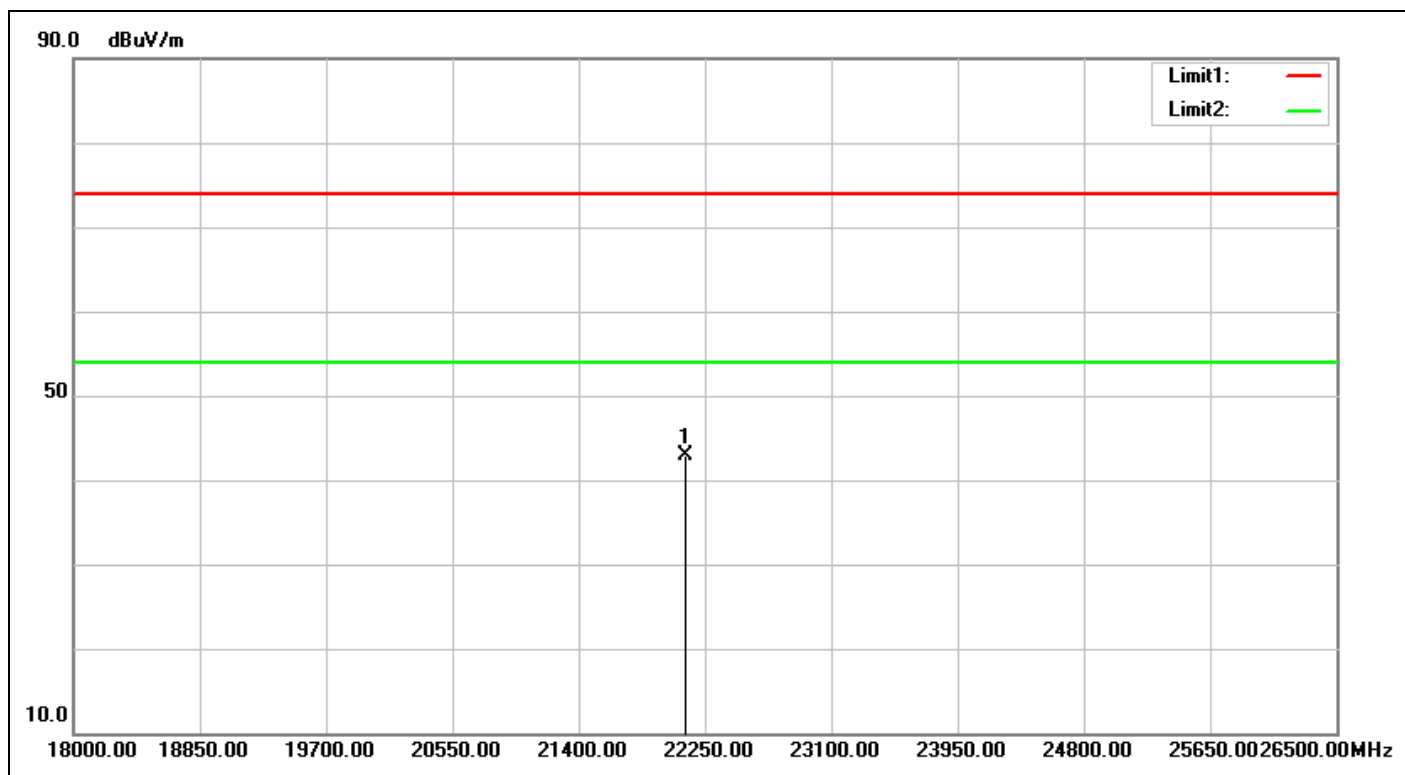
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:32:56
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20269.500	4.51	38.61	43.12	74.00	-30.88	peak	100	345	



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:33:02
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22122.500	4.56	38.40	42.96	74.00	-31.04	peak	100	118	

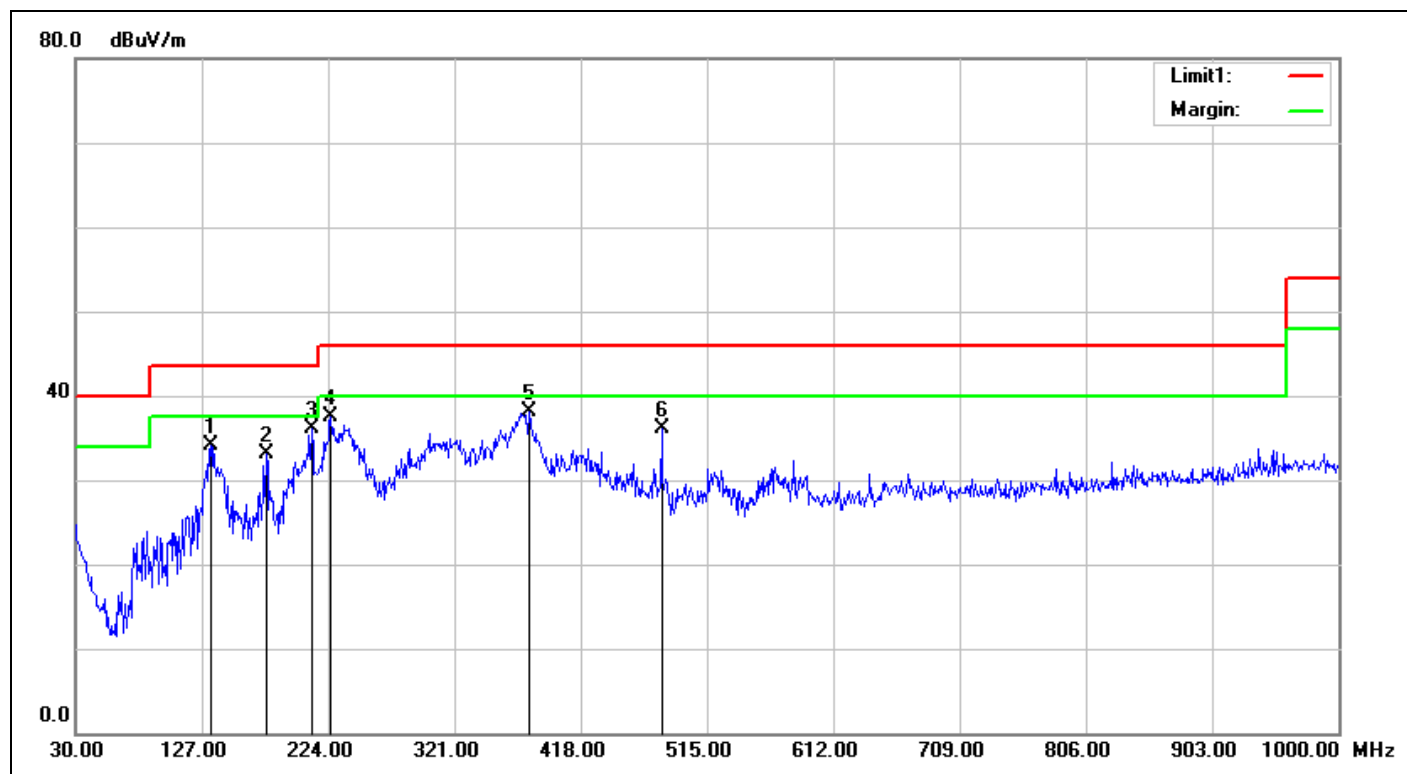
Spurious Emissions, RX Mode, 30M-1G



TUV Rheinland Taiwan Ltd.

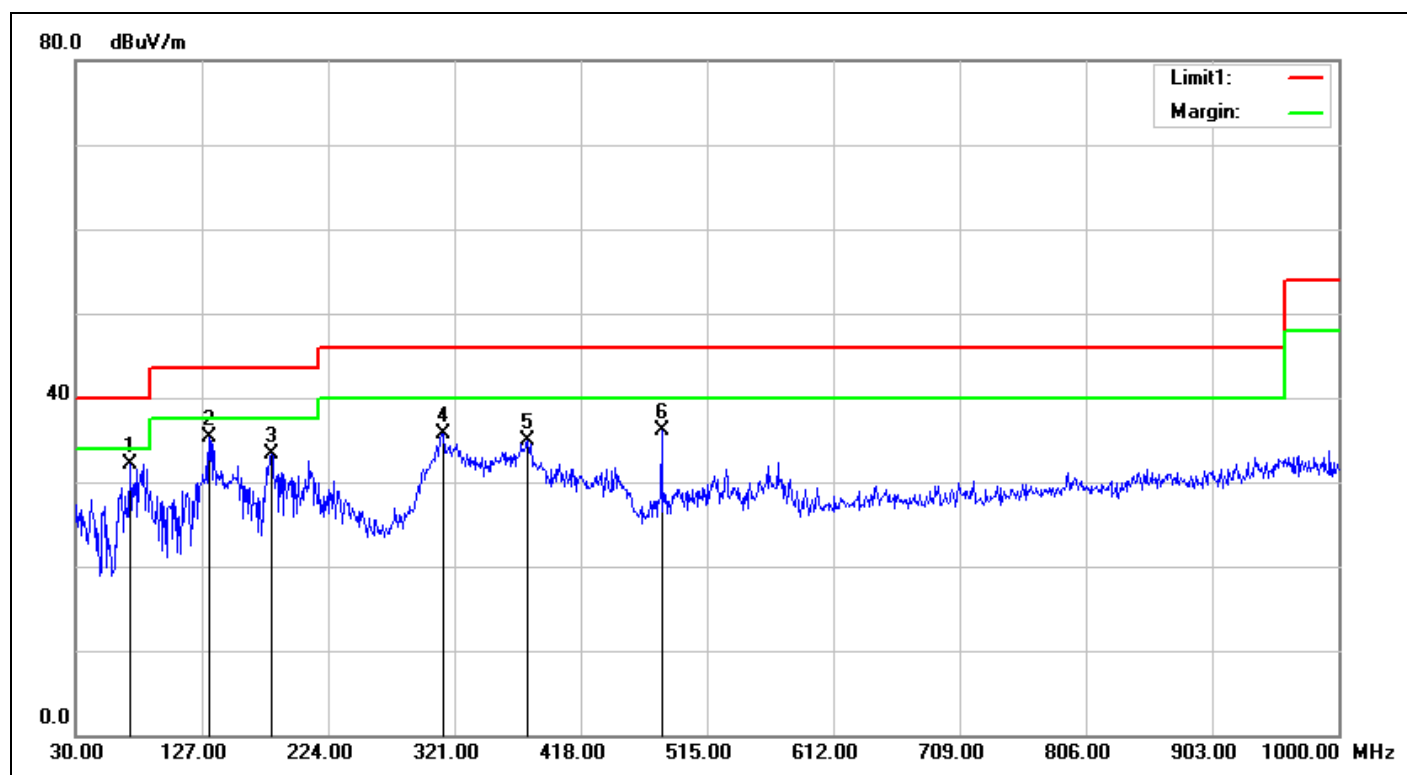
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/2/18 21:49:19
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	133.7899	-6.95	41.04	34.09	43.50	-9.41	QP	100	246	
2	176.4699	-9.47	42.64	33.17	43.50	-10.33	QP	100	45	
3	211.3899	-8.58	44.63	36.05	43.50	-7.45	QP	100	134	
4	225.9399	-7.85	45.30	37.45	46.00	-8.55	QP	100	95	
5	378.2300	-2.95	41.06	38.11	46.00	-7.89	QP	100	121	
6	480.0799	-1.52	37.58	36.06	46.00	-9.94	QP	100	265	



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/2/18 21:50:12
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%):	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	71.7100	-12.83	44.99	32.16	40.00	-7.84	QP	100	190	
2	132.8200	-6.97	42.31	35.34	43.50	-8.16	QP	100	209	
3	180.3500	-9.62	42.88	33.26	43.50	-10.24	QP	100	127	
4	312.2700	-4.47	40.16	35.69	46.00	-10.31	QP	100	337	
5	377.2600	-2.98	37.81	34.83	46.00	-11.17	QP	100	12	
6	480.0800	-1.52	37.61	36.09	46.00	-9.91	QP	100	203	

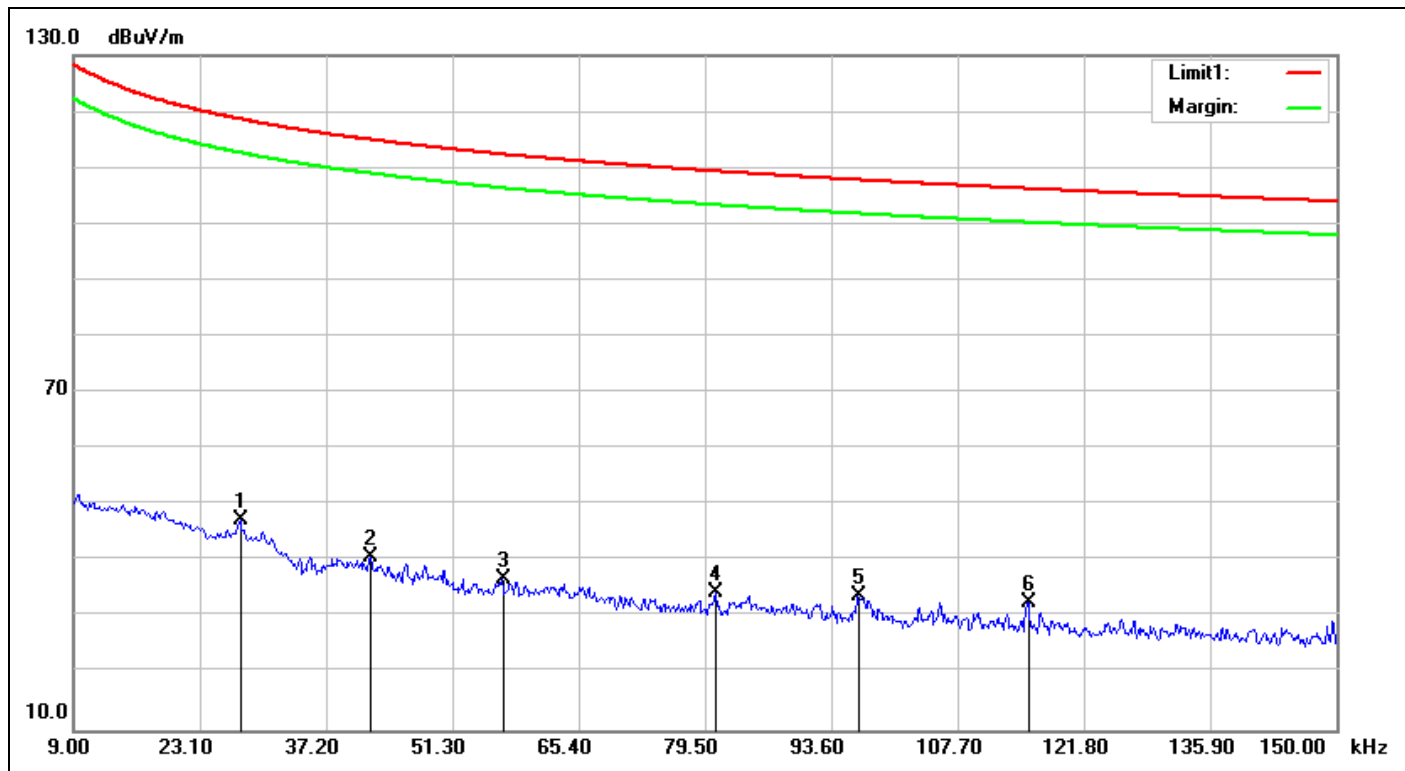
Spurious Emissions, RX Mode, 9K-30M



TUV Rheinland Taiwan Ltd.

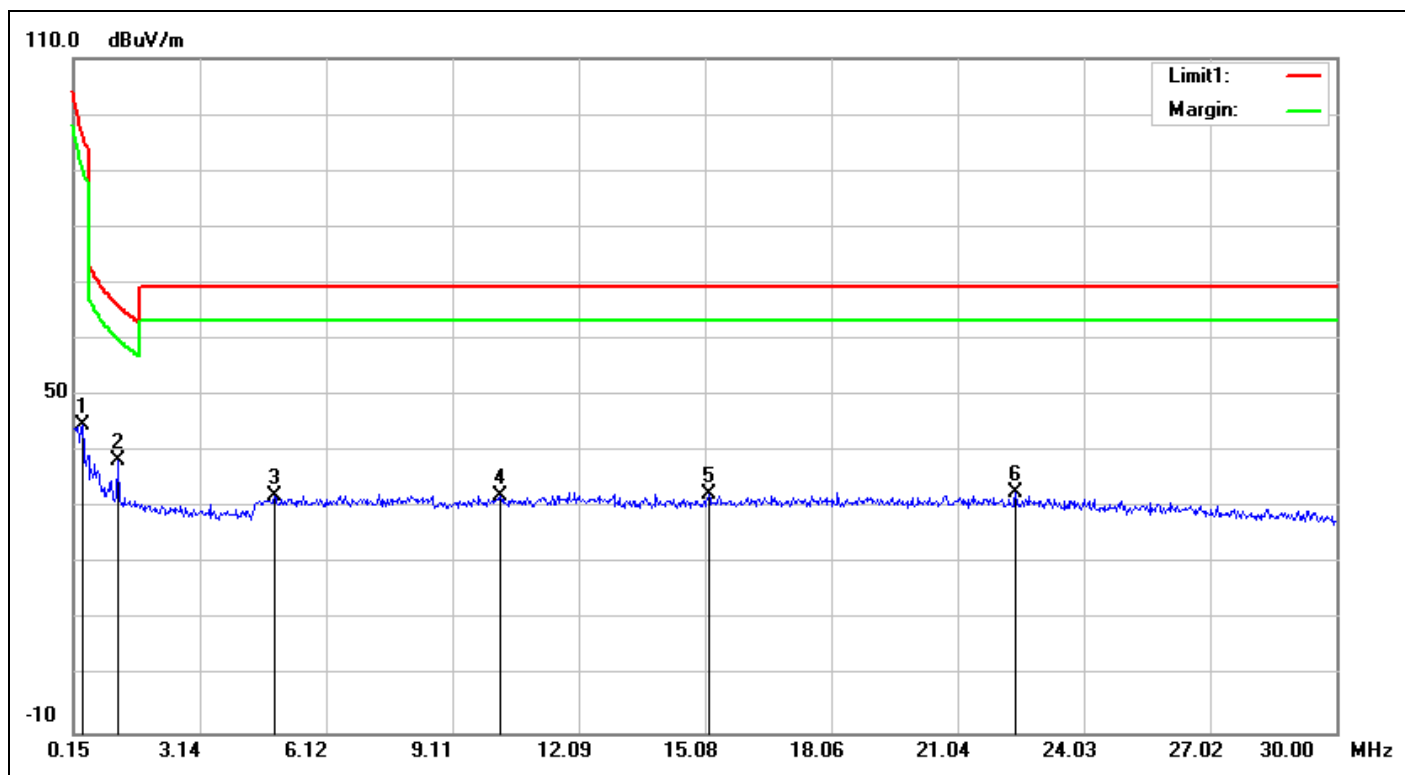
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	238100183	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2019/2/18 21:55:49
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0276	19.23	27.99	47.22	118.63	-71.41	QP	100	354	
2	0.0421	19.08	21.54	40.62	114.99	-74.37	QP	100	0	
3	0.0568	18.84	18.16	37.00	112.40	-75.40	QP	100	298	
4	0.0806	18.55	15.86	34.41	109.38	-74.97	QP	100	288	
5	0.0966	18.37	15.62	33.99	107.82	-73.83	QP	100	252	
6	0.1155	18.34	14.21	32.55	106.27	-73.72	QP	100	193	



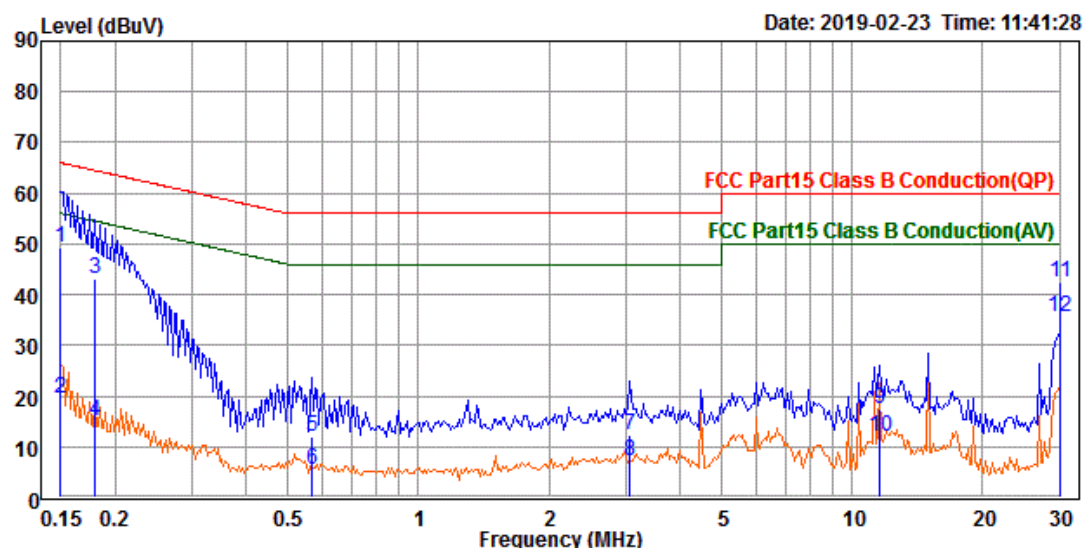
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Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2019/2/18 21:58:22
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:		Temp.(°C)/Hum.(%)	20(°C)/60%
Model No.:	WBU042-IG5V	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	IEEE 802.11 a/b/g/n/ac 2x2 + BT combo module setting 2D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.3589	18.50	26.36	44.86	96.49	-51.63	QP	100	246	
2	1.1947	18.66	19.65	38.31	66.08	-27.77	QP	100	151	
3	4.8961	19.42	12.85	32.27	69.50	-37.23	QP	100	294	
4	10.2393	20.47	11.65	32.12	69.50	-37.38	QP	100	35	
5	15.1646	21.04	11.29	32.33	69.50	-37.17	QP	100	75	
6	22.4181	21.69	10.98	32.67	69.50	-36.83	QP	100	269	

Spurious Emissions, AC Mains



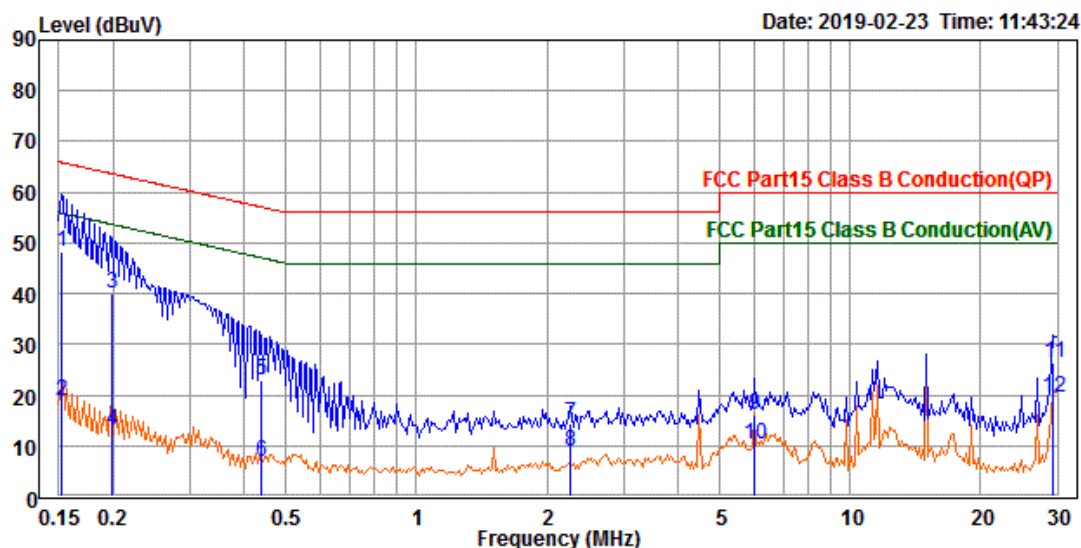
TUV Rheinland Taiwan Ltd.
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105
Tel:+886-2172-7000 Fax:+886-2528-0018



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 : WiFi 2.4G AC Mains

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	39.48	9.68	49.16	66.00	-16.84	QP
2	0.150	9.88	9.68	19.56	56.00	-36.44	Average
3	0.179	33.57	9.68	43.25	64.51	-21.26	QP
4	0.179	5.39	9.68	15.07	54.51	-39.44	Average
5	0.568	2.33	9.69	12.02	56.00	-43.98	QP
6	0.568	-4.13	9.69	5.56	46.00	-40.44	Average
7	3.080	2.53	9.74	12.27	56.00	-43.73	QP
8	3.080	-2.66	9.74	7.08	46.00	-38.92	Average
9	11.553	7.66	9.84	17.50	60.00	-42.50	QP
10	11.553	2.30	9.84	12.14	50.00	-37.86	Average
11	30.000	32.66	9.83	42.49	60.00	-17.51	QP
12	30.000	25.90	9.83	35.73	50.00	-14.27	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 : WiFi 2.4G AC Mains

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.151	38.51	9.68	48.19	65.92	-17.73	QP
2	0.151	9.06	9.68	18.74	55.92	-37.18	Average
3	0.198	30.19	9.68	39.87	63.69	-23.82	QP
4	0.198	3.28	9.68	12.96	53.69	-40.73	Average
5	0.439	13.22	9.68	22.90	57.08	-34.18	QP
6	0.439	-2.68	9.68	7.00	47.08	-40.08	Average
7	2.263	4.70	9.72	14.42	56.00	-41.58	QP
8	2.263	-0.81	9.72	8.91	46.00	-37.09	Average
9	5.994	6.25	9.79	16.04	60.00	-43.96	QP
10	5.994	0.47	9.79	10.26	50.00	-39.74	Average
11	29.409	16.46	9.95	26.41	60.00	-33.59	QP
12	29.409	9.51	9.95	19.46	50.00	-30.54	Average