

Test Report No.50246754 001

Appendix D: Radiated and Mains Spurious Emission Data

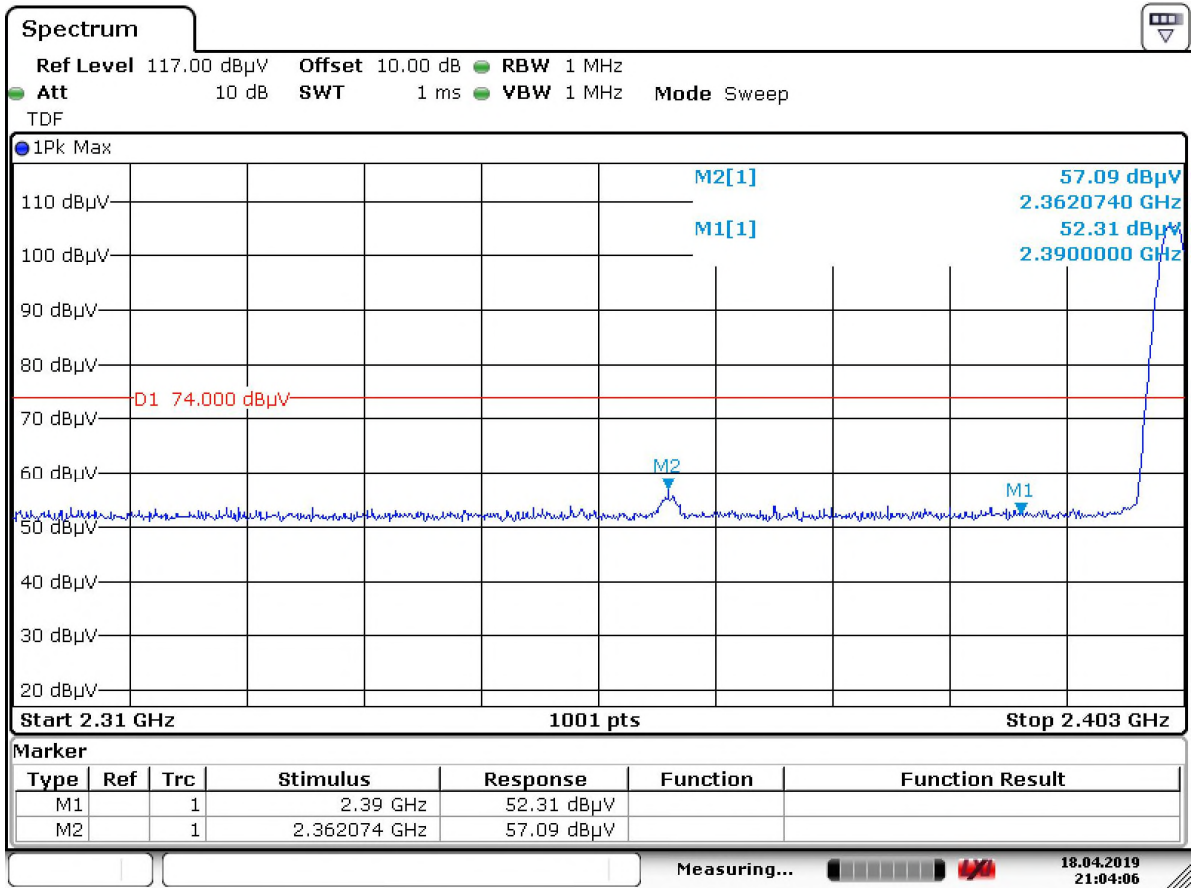
(File: 50246754 001AppendixD)

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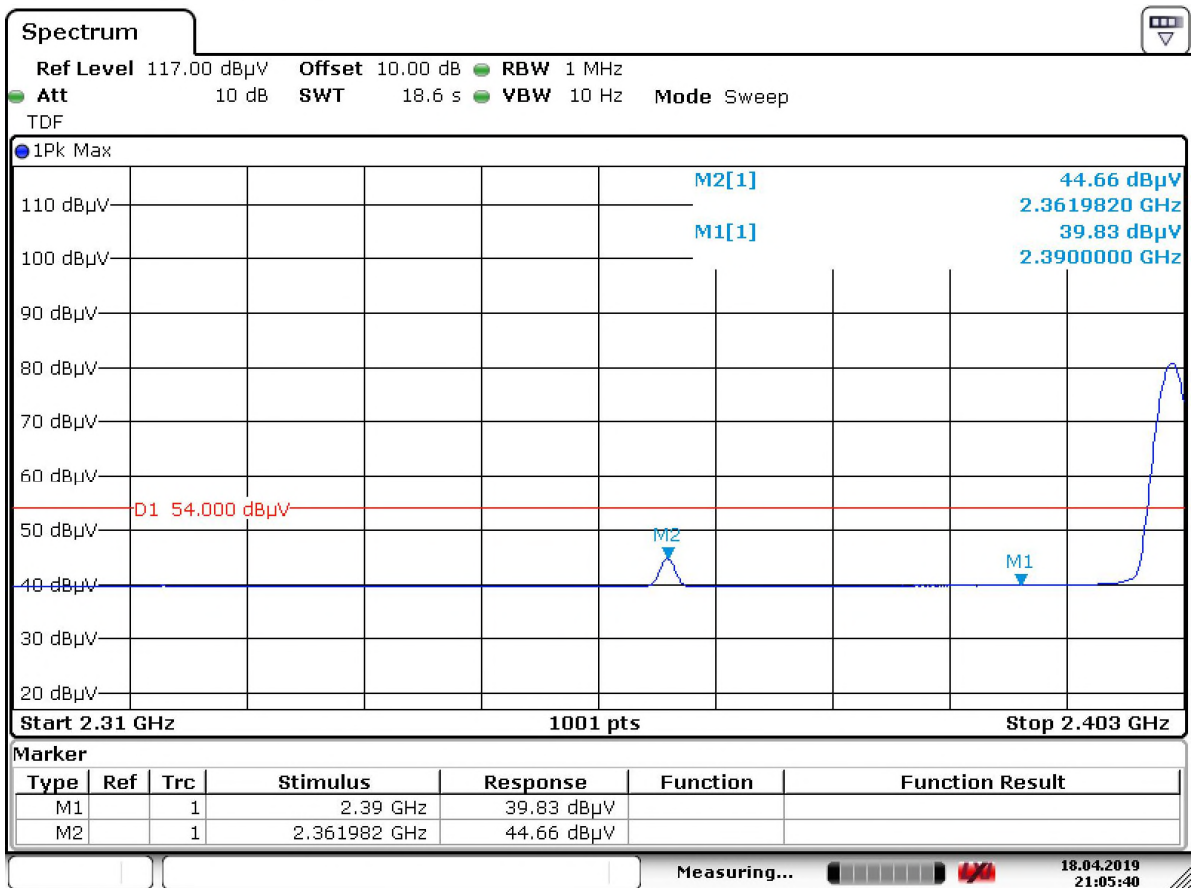
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Spurious Emissions, Band Edges, 2.35-2.5G

Low Channel (Horizontal)

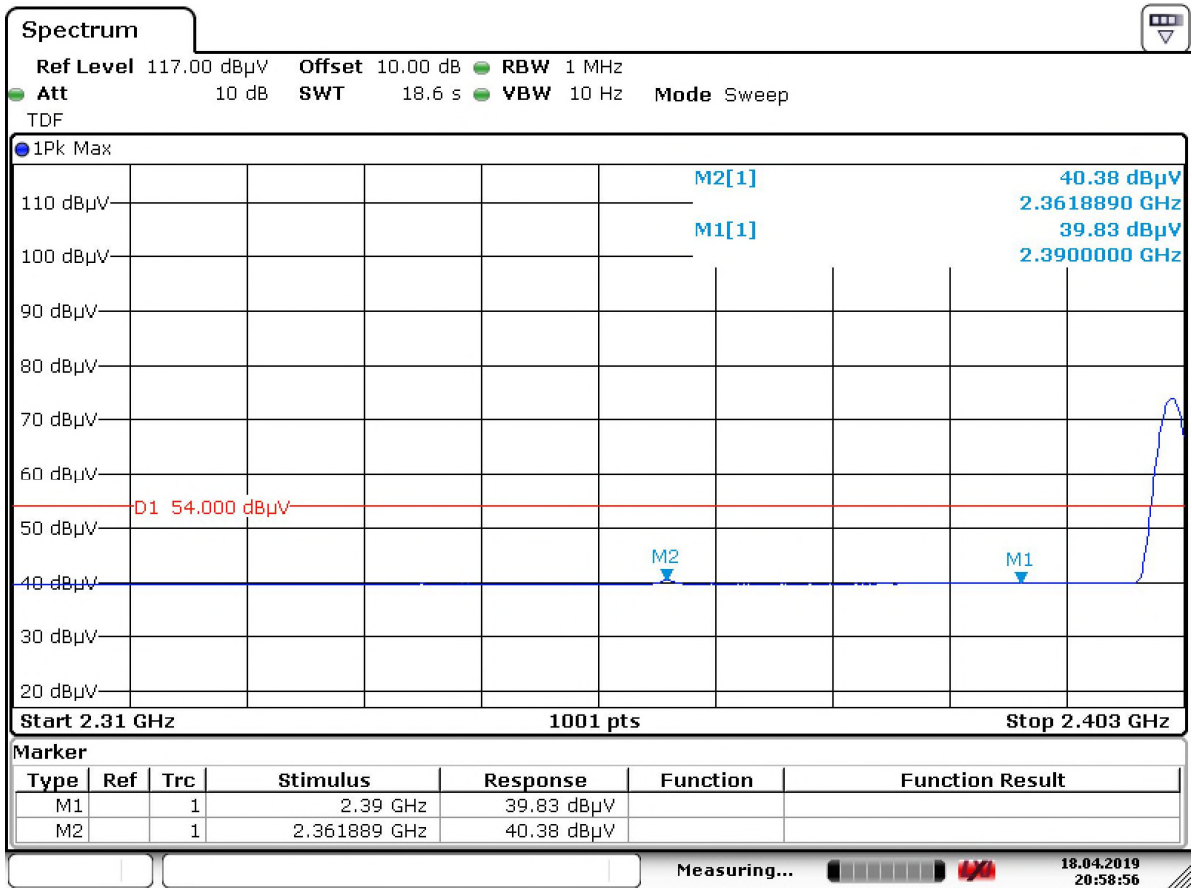


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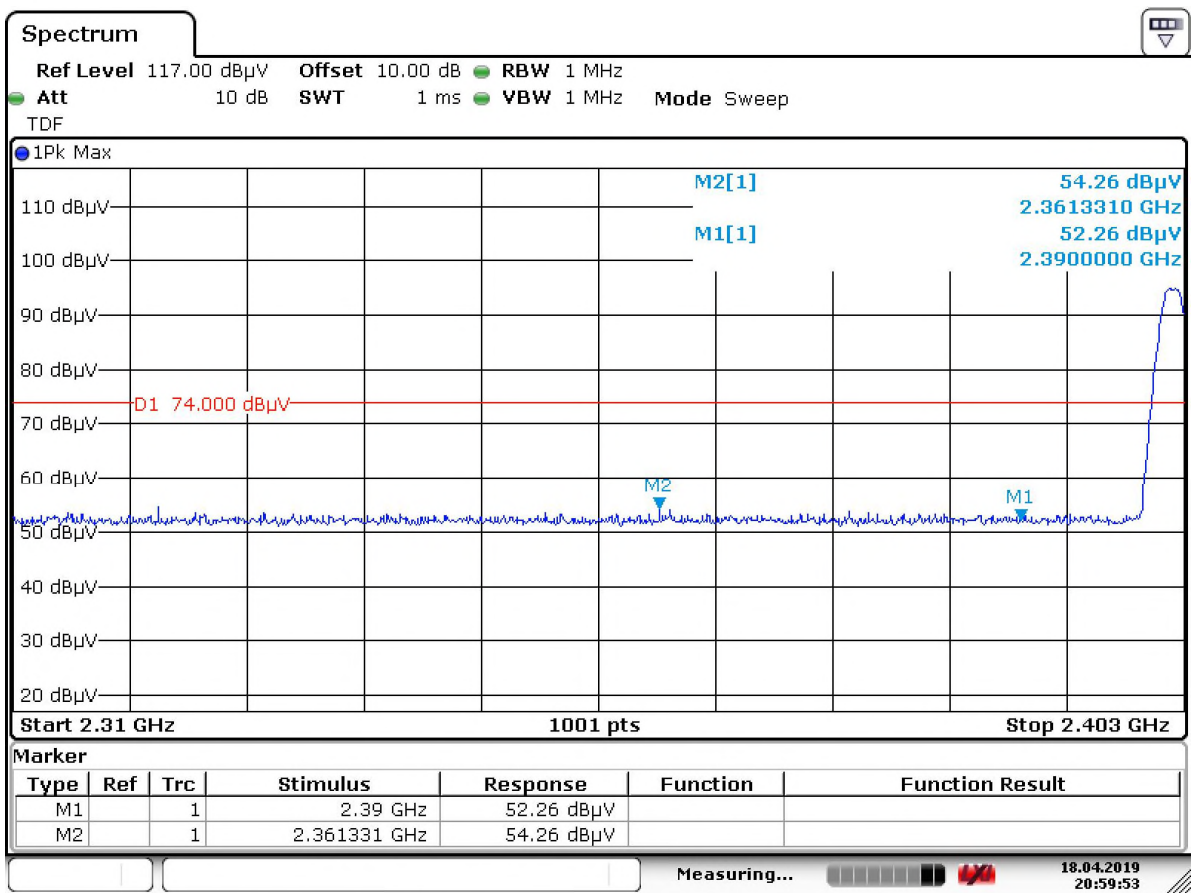


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Low Channel (Vertical)

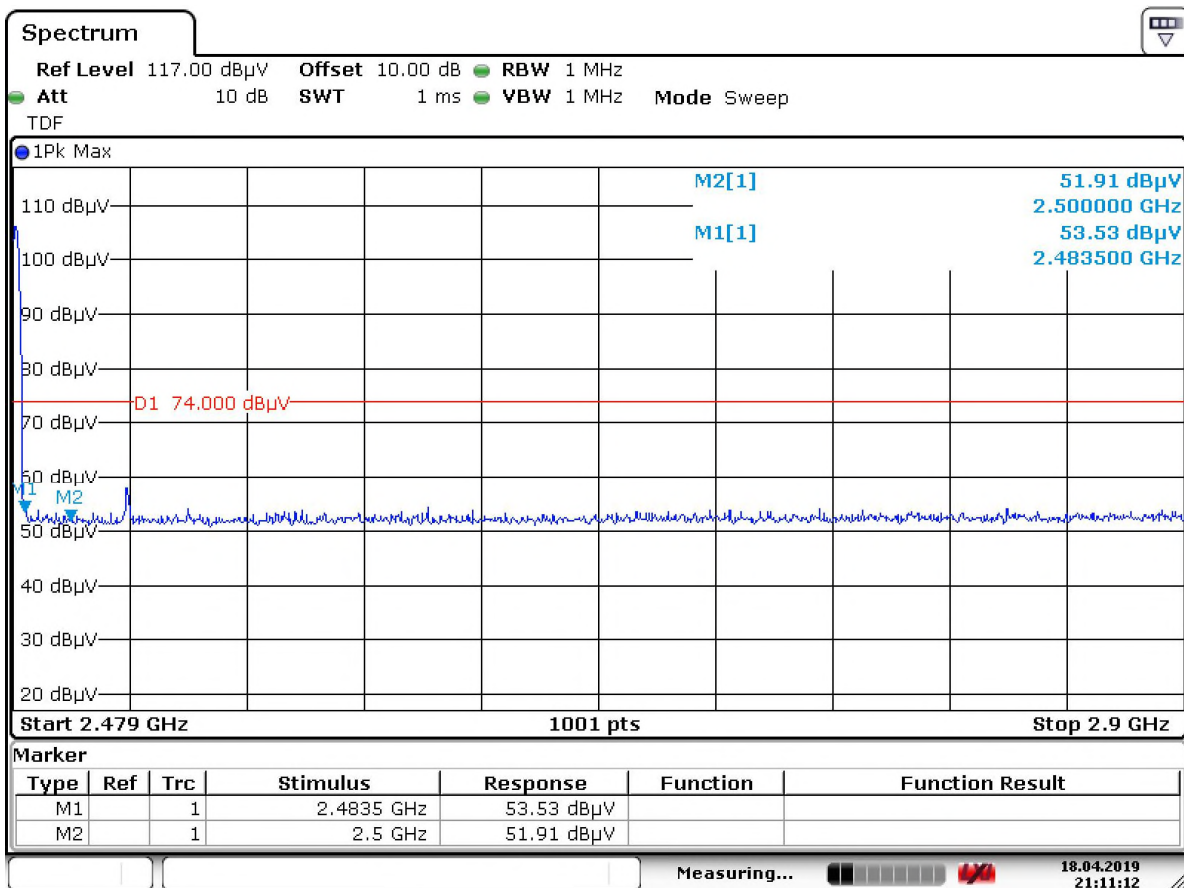


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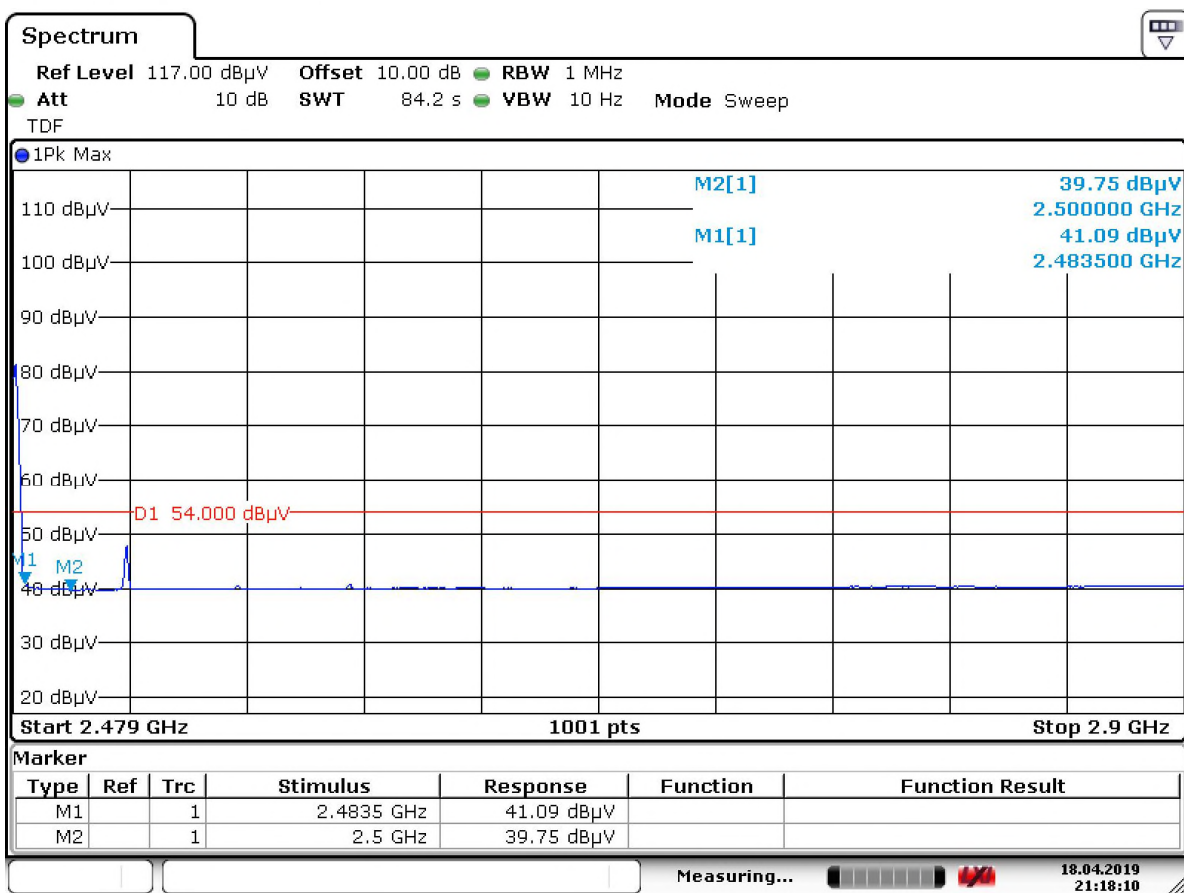


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High Channel (Horizontal)

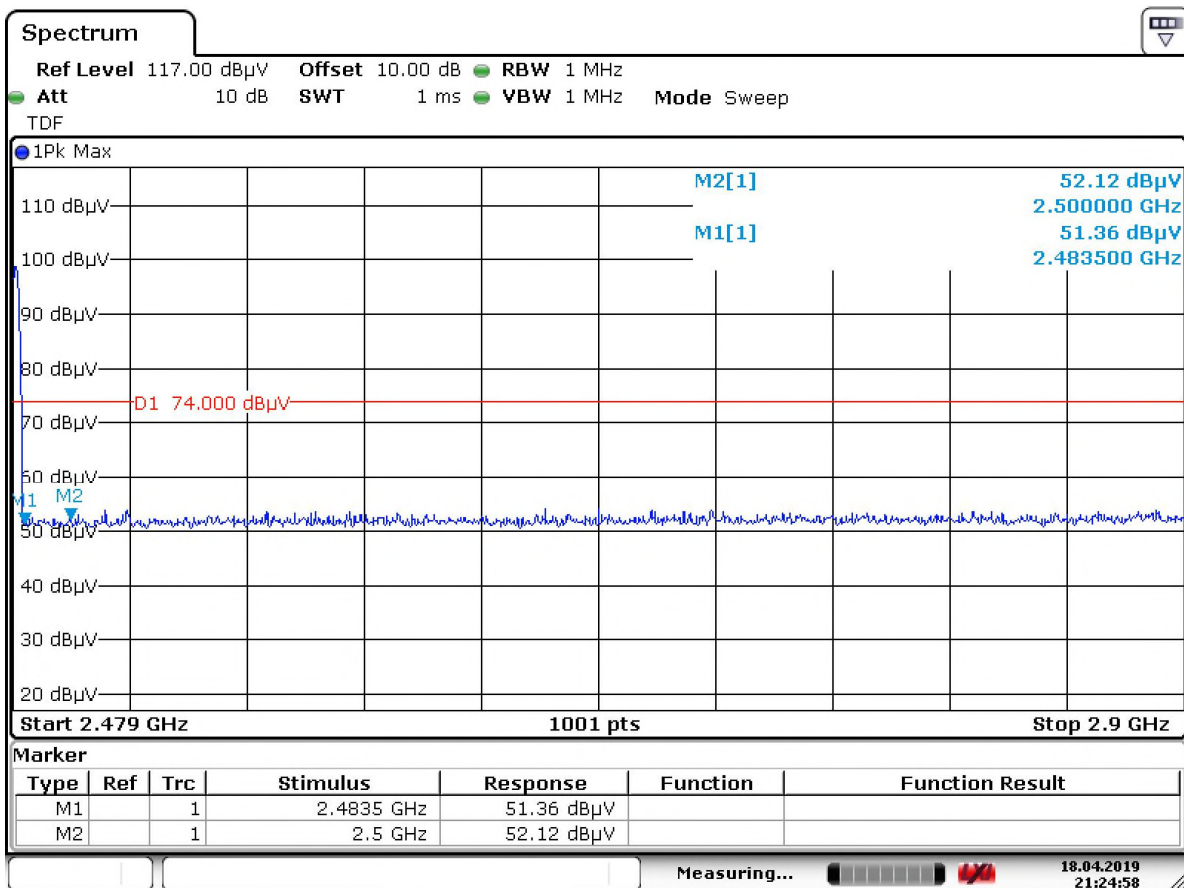


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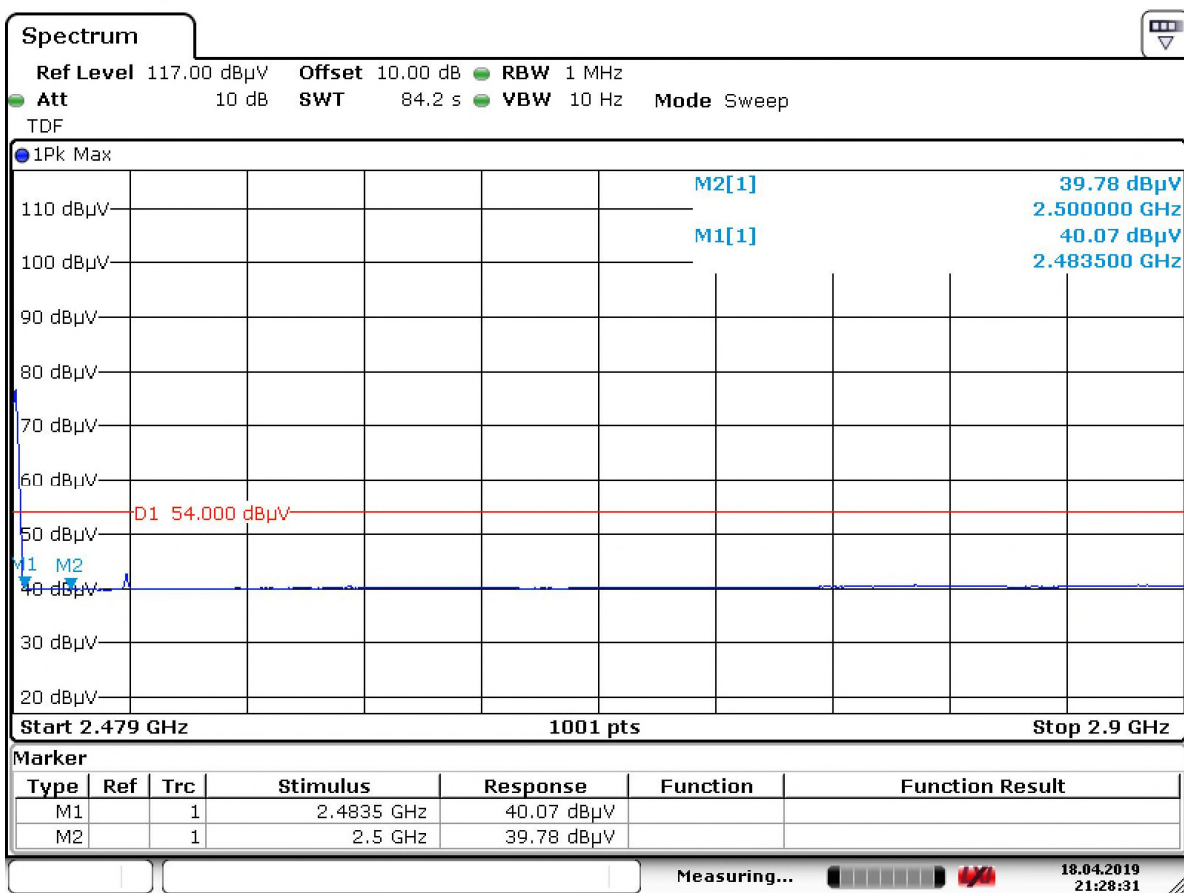


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High Channel (Vertical)



Date: 18.APR.2019 21:24:59



Date: 18.APR.2019 21:28:31

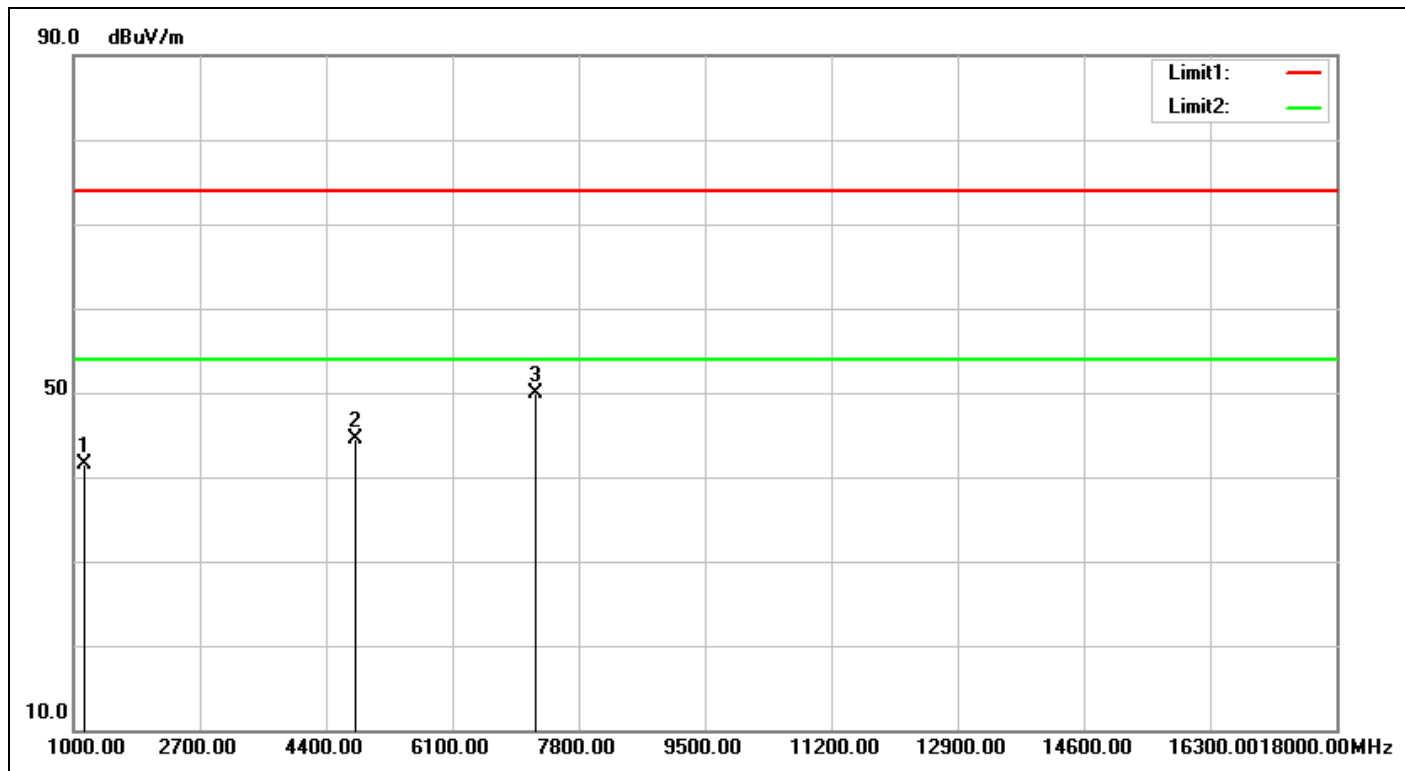
Spurious Emissions, TX Mode, 1GHz-18GHz



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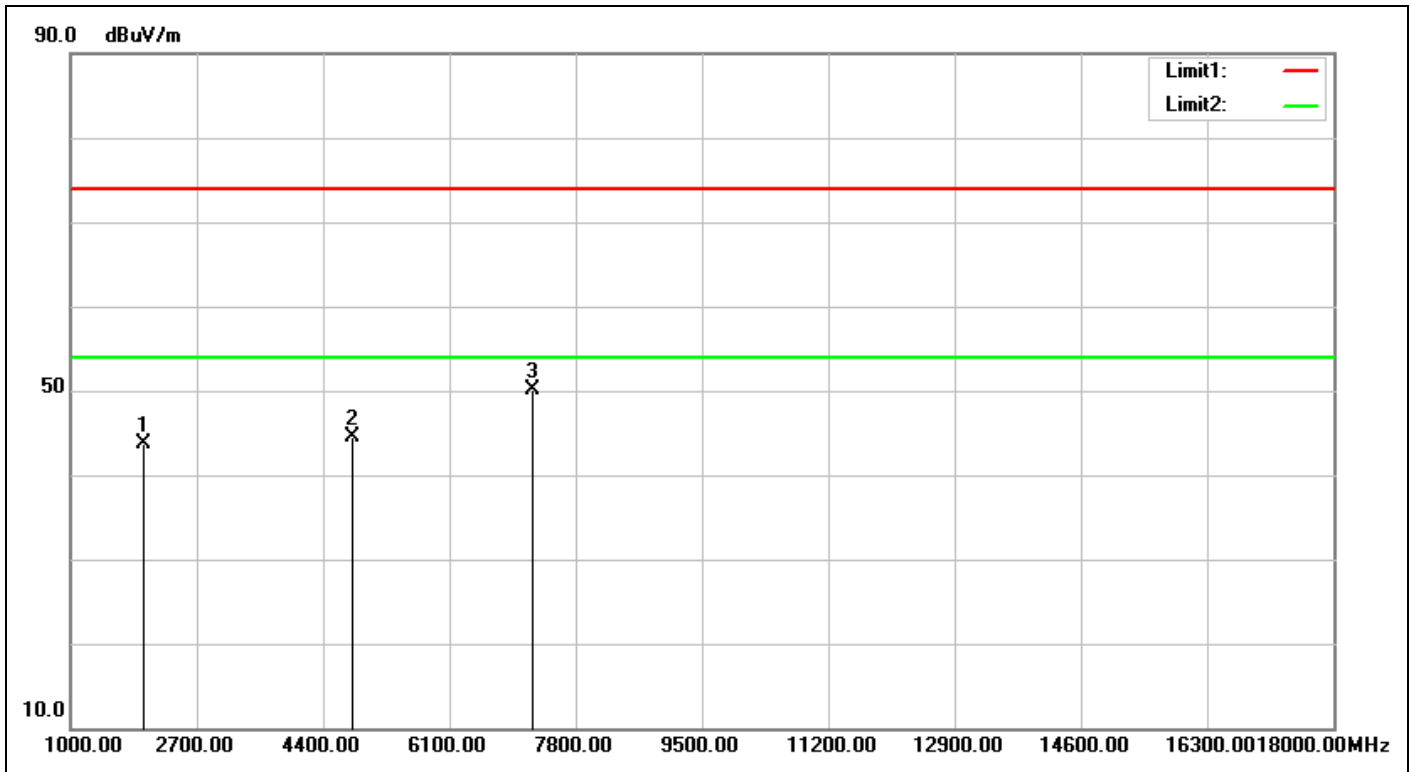
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



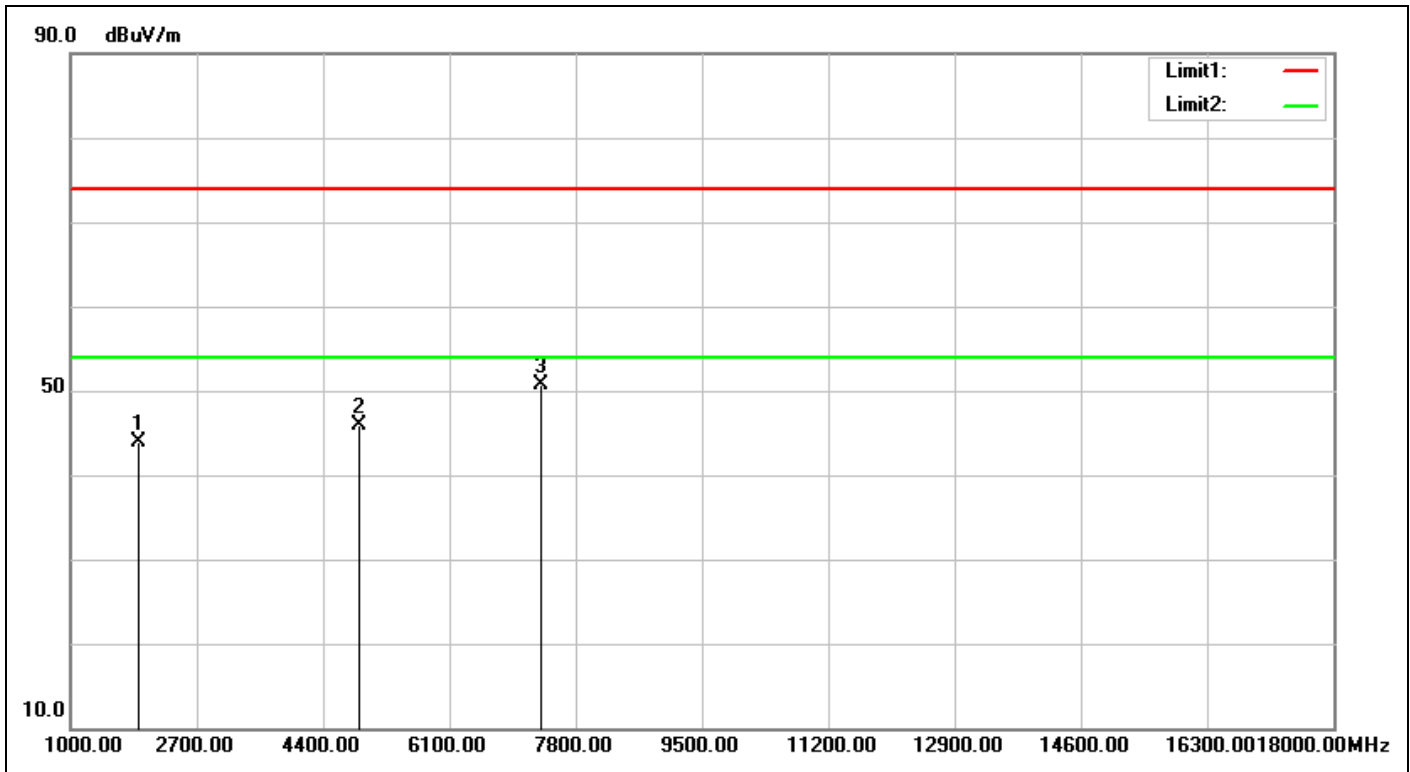
Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/4/18 19:44:18
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%)	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Kai Wang
Test Mode:	2402-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1153.000	-9.82	51.26	41.44	74.00	-32.56	peak	180	244	
2	4804.000	-2.64	47.24	44.60	74.00	-29.40	peak	112	35	
3	7206.000	5.26	44.72	49.98	74.00	-24.02	peak	100	206	



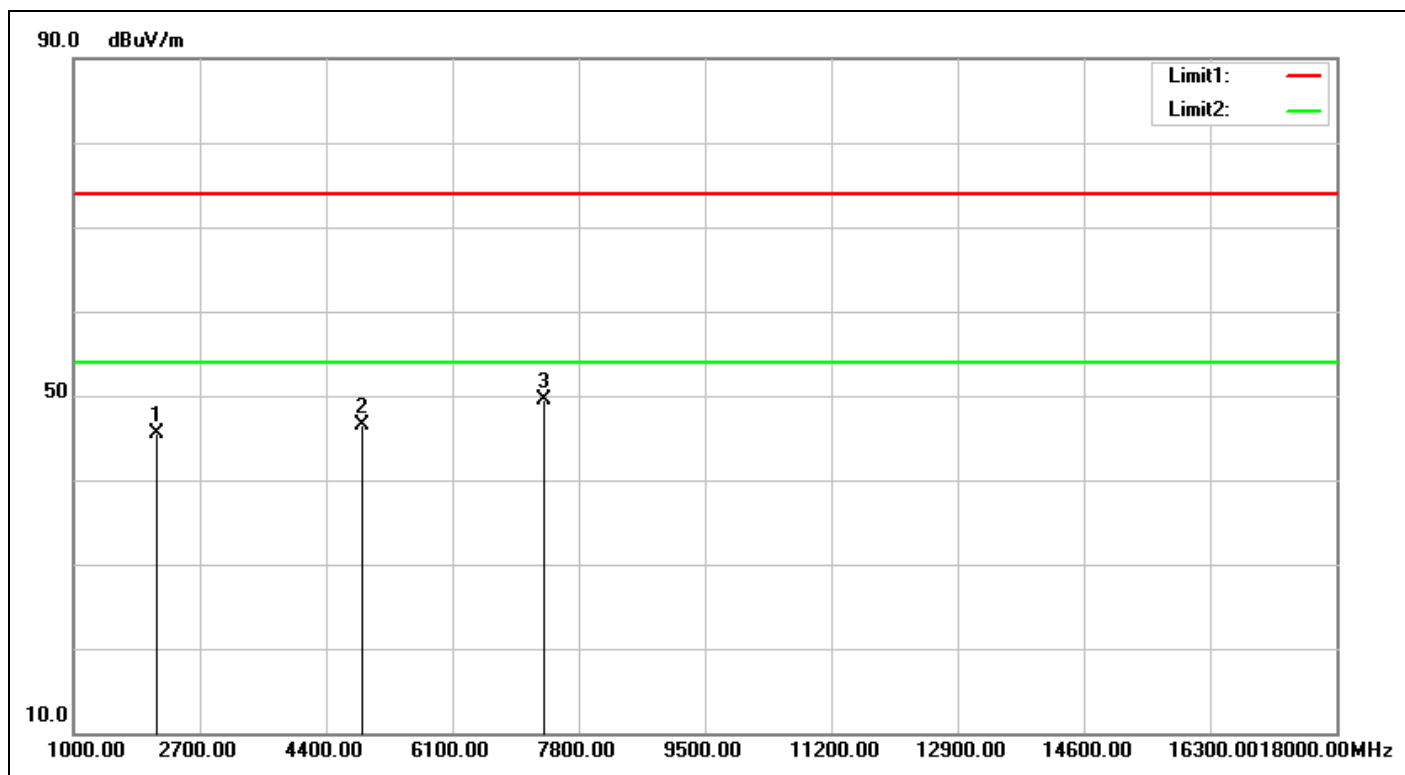
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/4/18 19:46:10
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%):	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Kai Wang
Test Mode:	2402-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1986.000	-7.32	51.07	43.75	74.00	-30.25	peak	100	27	
2	4804.000	-2.64	47.09	44.45	74.00	-29.55	peak	130	116	
3	7206.000	5.26	44.89	50.15	74.00	-23.85	peak	200	202	



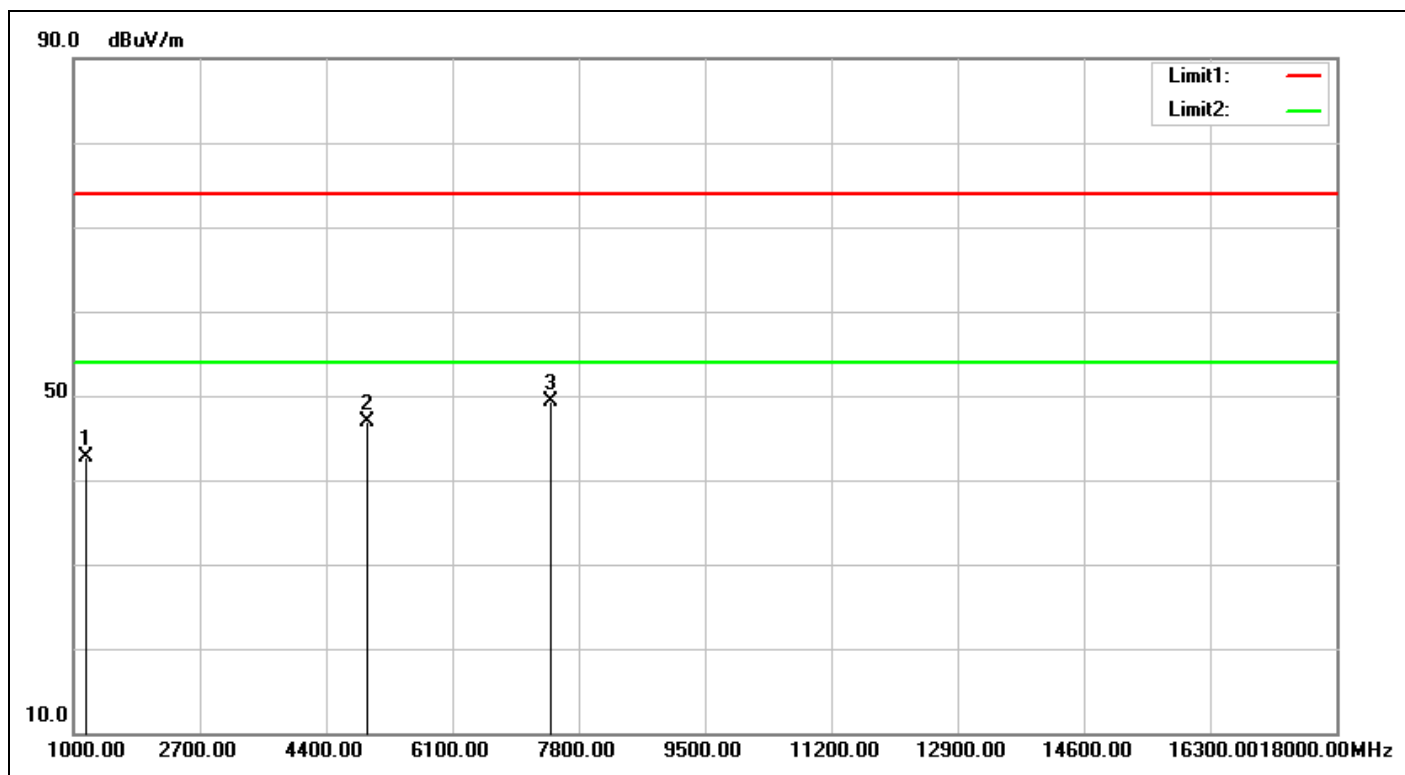
Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/4/18 19:53:31
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%):	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Kai Wang
Test Mode:	2440-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1918.000	-7.79	51.64	43.85	74.00	-30.15	peak	100	155	
2	4880.000	-2.45	48.30	45.85	74.00	-28.15	peak	100	359	
3	7320.000	5.54	45.14	50.68	74.00	-23.32	peak	152	268	



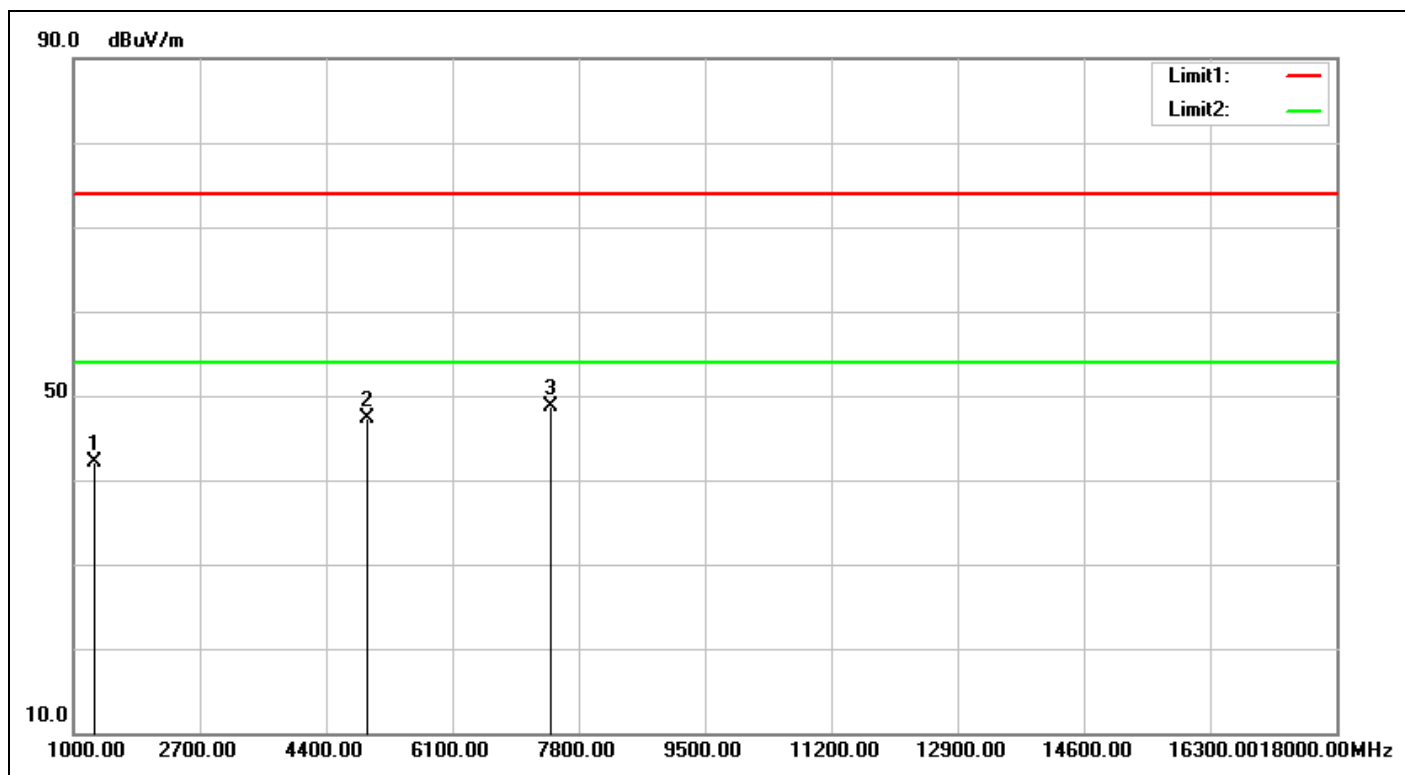
Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/4/18 19:55:23
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%)	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Kai Wang
Test Mode:	2440-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2122.000	-7.20	52.73	45.53	74.00	-28.47	peak	190	216	
2	4880.000	-2.45	48.93	46.48	74.00	-27.52	peak	200	151	
3	7320.000	5.54	44.02	49.56	74.00	-24.44	peak	135	288	



Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/4/18 20:06:22
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%)	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Kai Wang
Test Mode:	2480-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1170.000	-9.85	52.59	42.74	74.00	-31.26	peak	100	258	
2	4960.000	-2.25	49.12	46.87	74.00	-27.13	peak	200	105	
3	7440.000	5.83	43.51	49.34	74.00	-24.66	peak	163	197	



Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/4/18 20:08:14
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%):	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Kai Wang
Test Mode:	2480-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1272.000	-10.11	52.17	42.06	74.00	-31.94	peak	100	198	
2	4960.000	-2.25	49.47	47.22	74.00	-26.78	peak	100	359	
3	7440.000	5.83	42.88	48.71	74.00	-25.29	peak	108	332	

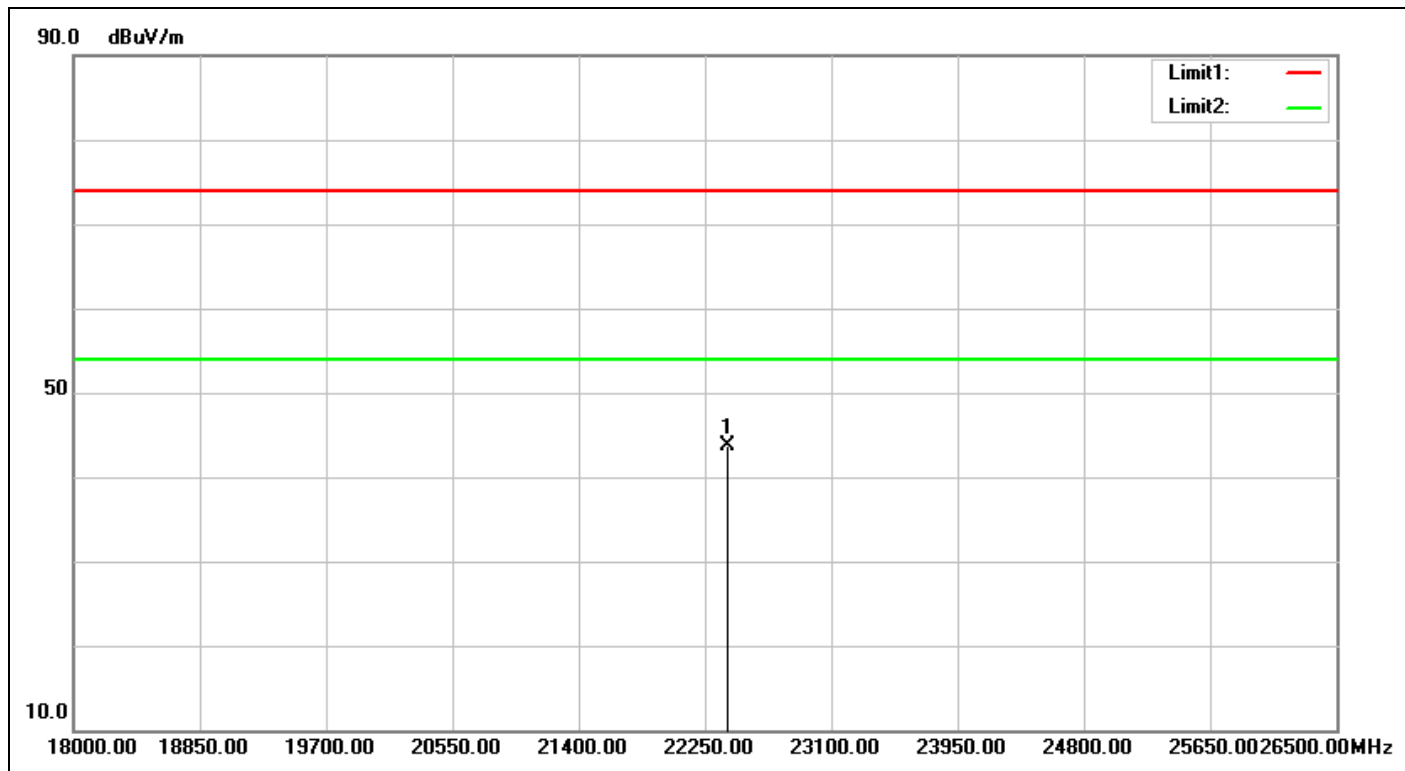
Spurious Emissions, TX Mode, 18GHz-26GHz



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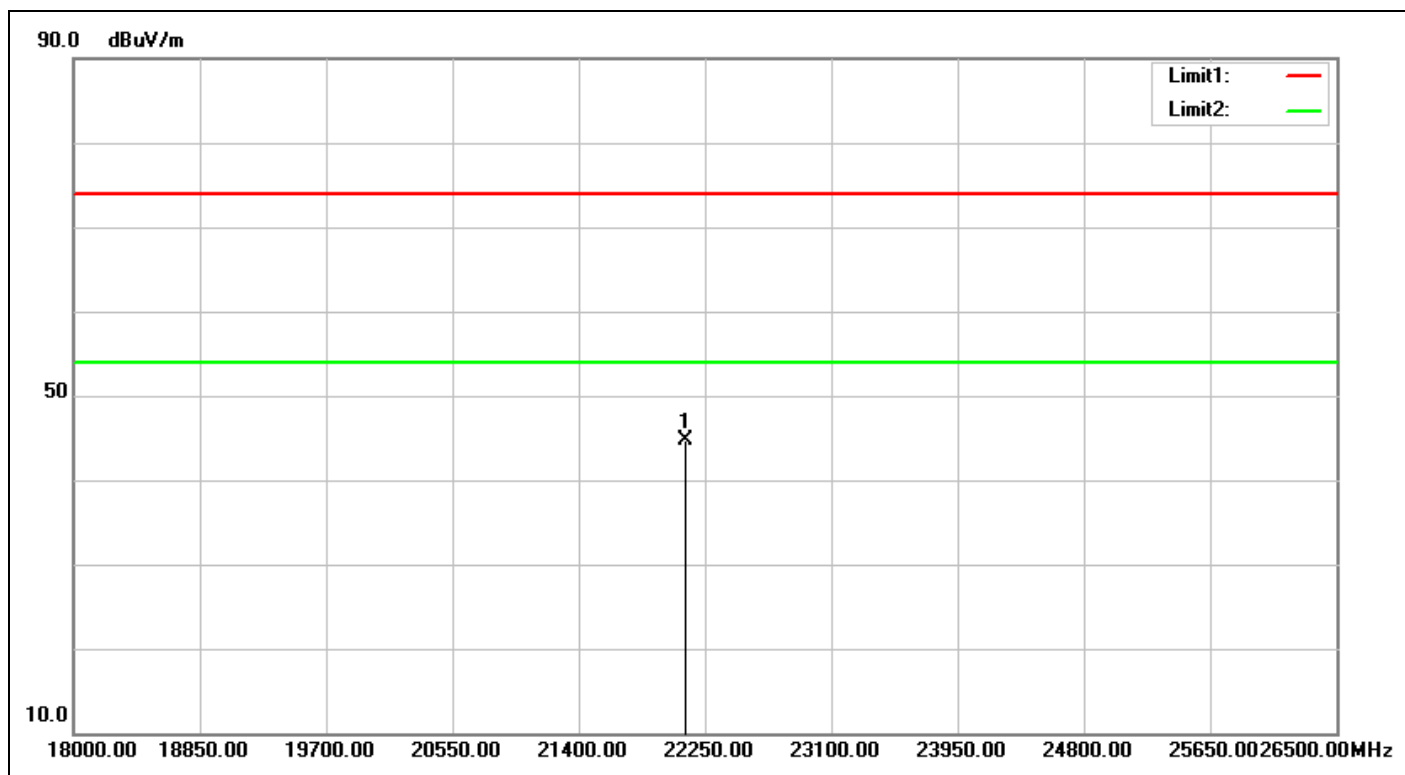
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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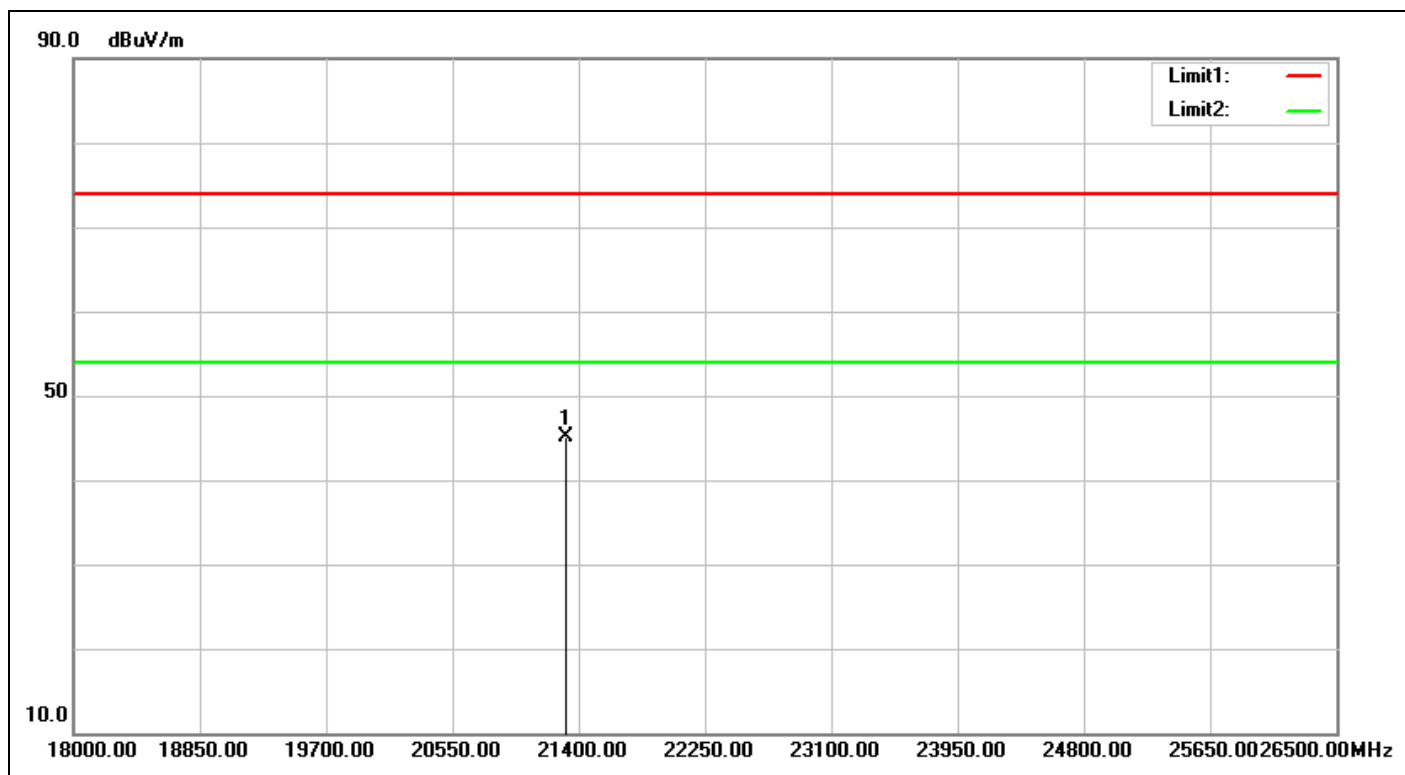
Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/4/18 15:51:32
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%)	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Curry Chen
Test Mode:	2402-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22403.000	4.58	39.22	43.80	74.00	-30.20	peak	100	137	



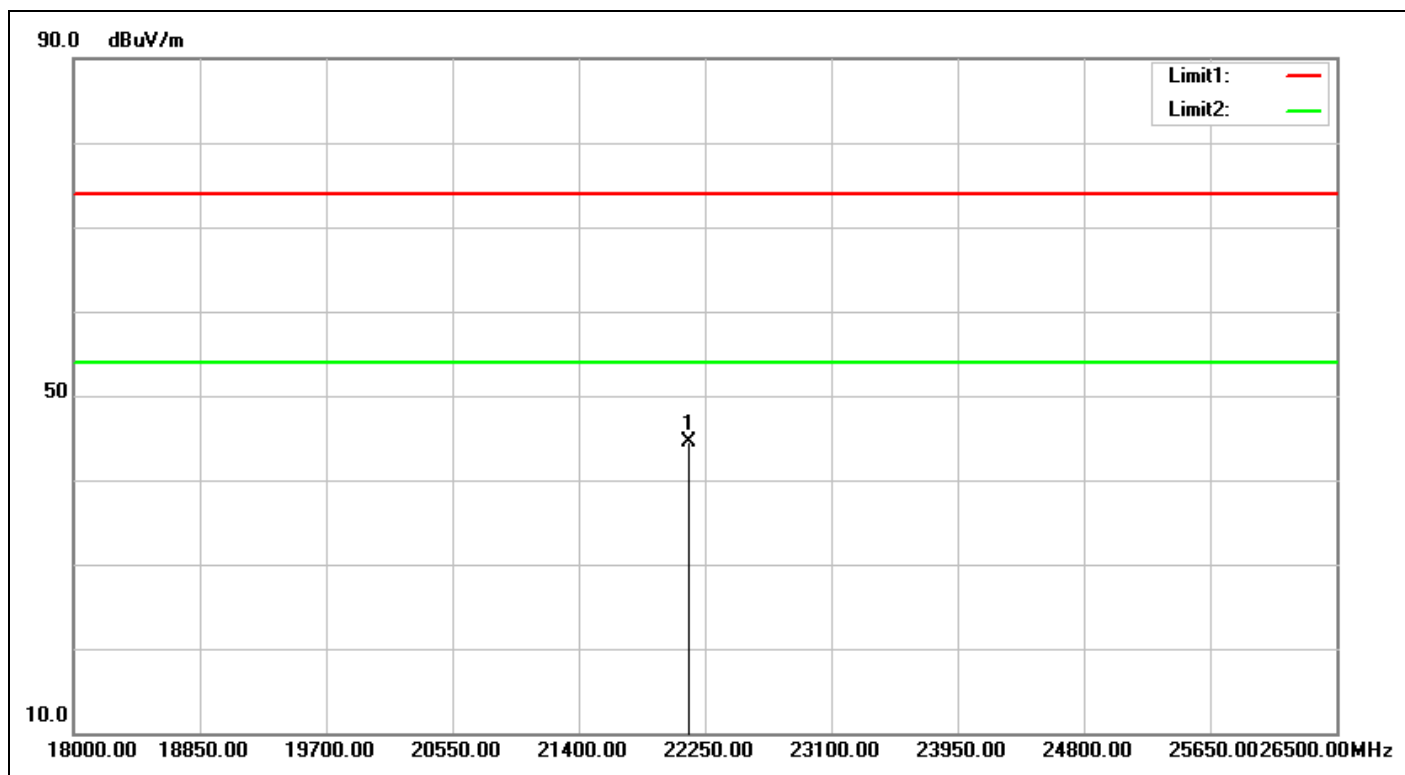
Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/4/18 15:52:25
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%):	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Curry Chen
Test Mode:	2402-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22114.000	4.55	40.23	44.78	74.00	-29.22	peak	100	48	



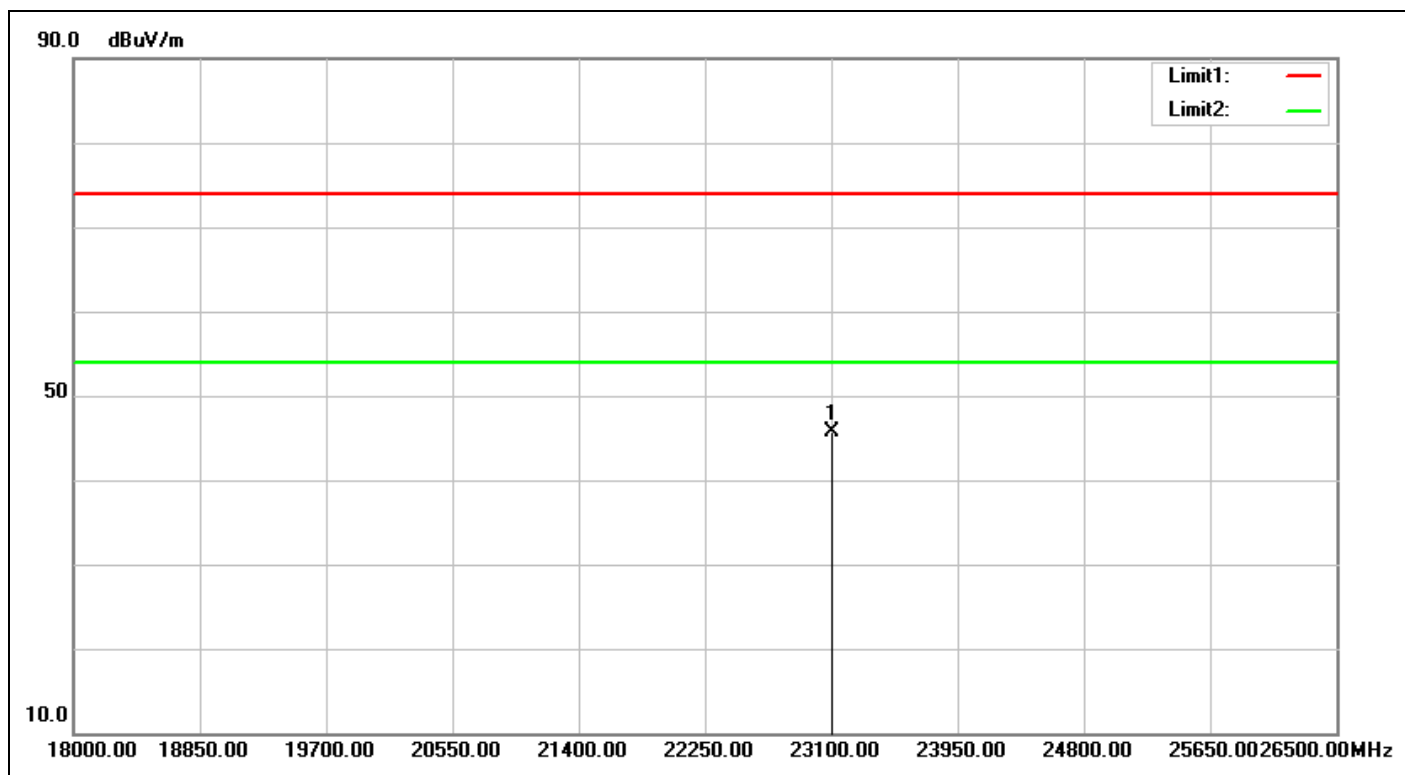
Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/4/18 15:53:52
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%):	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Curry Chen
Test Mode:	2440-Tx		
Remark:			

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	40.55	45.13	74.00	-28.87	peak	100	217	



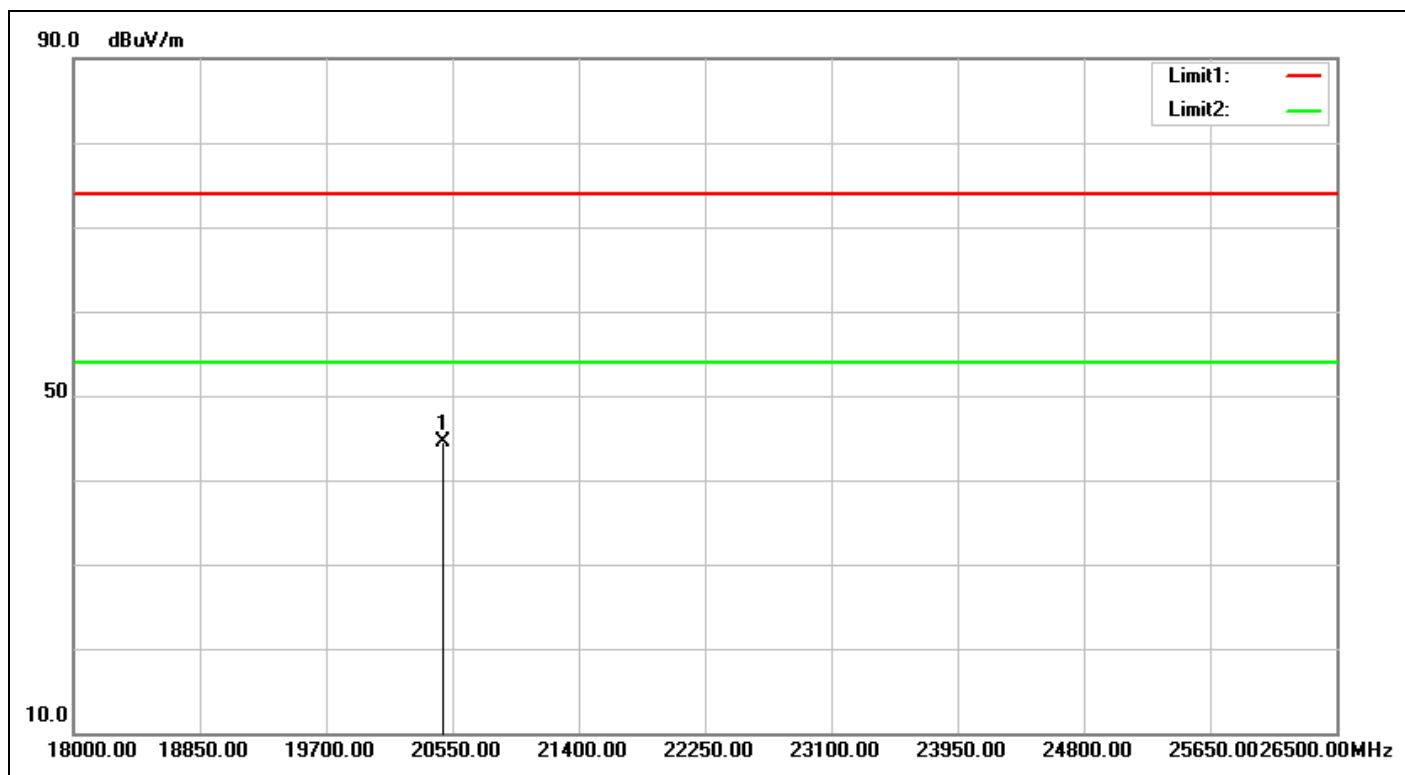
Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/4/18 15:54:45
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%):	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Curry Chen
Test Mode:	2440-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22139.500	4.59	39.85	44.44	74.00	-29.56	peak	100	335	



Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/4/18 15:57:09
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%):	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Curry Chen
Test Mode:	2480-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23100.000	5.16	40.55	45.71	74.00	-28.29	peak	100	333	



Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/4/18 15:58:01
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%):	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Curry Chen
Test Mode:	2480-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20482.000	4.21	40.28	44.49	74.00	-29.51	peak	100	321	

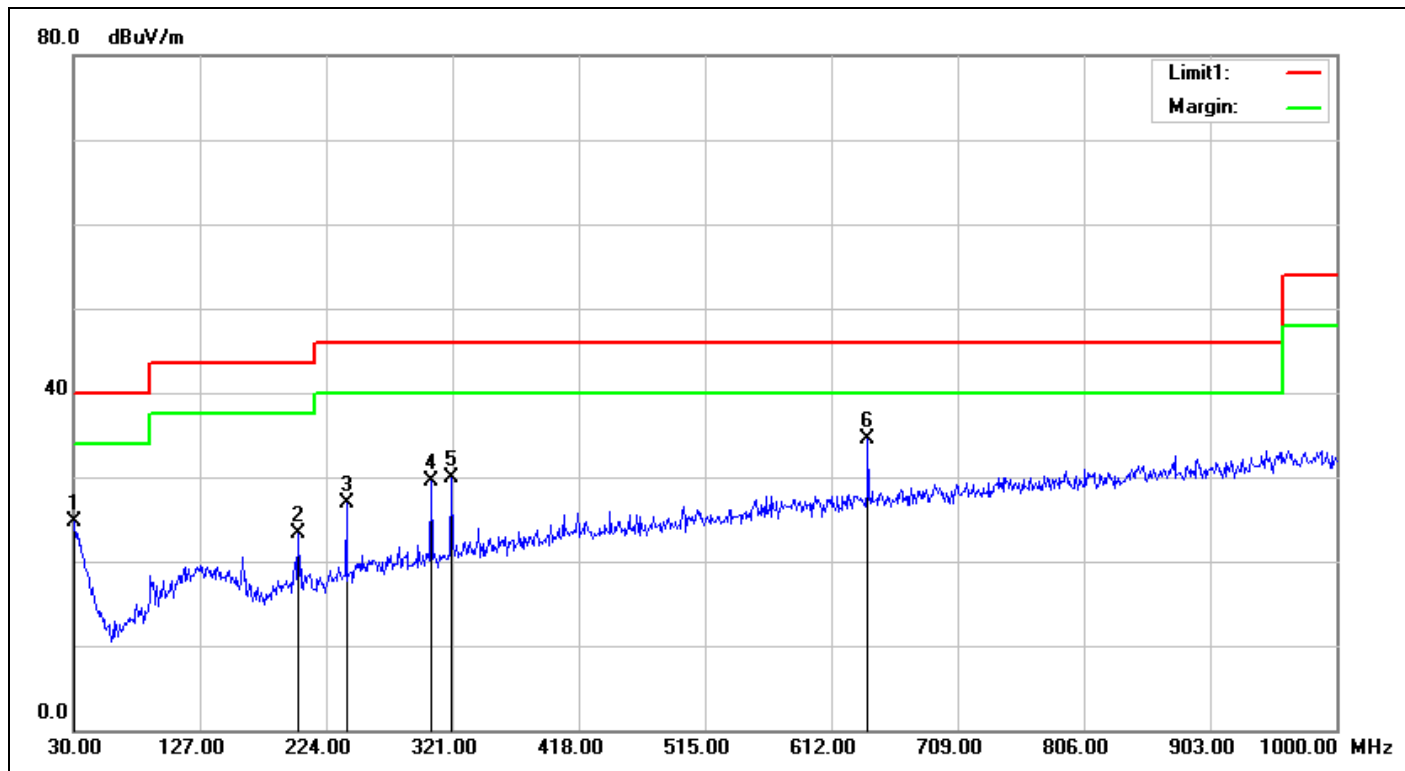
Spurious Emissions, TX Mode, 30MHz-1GHz



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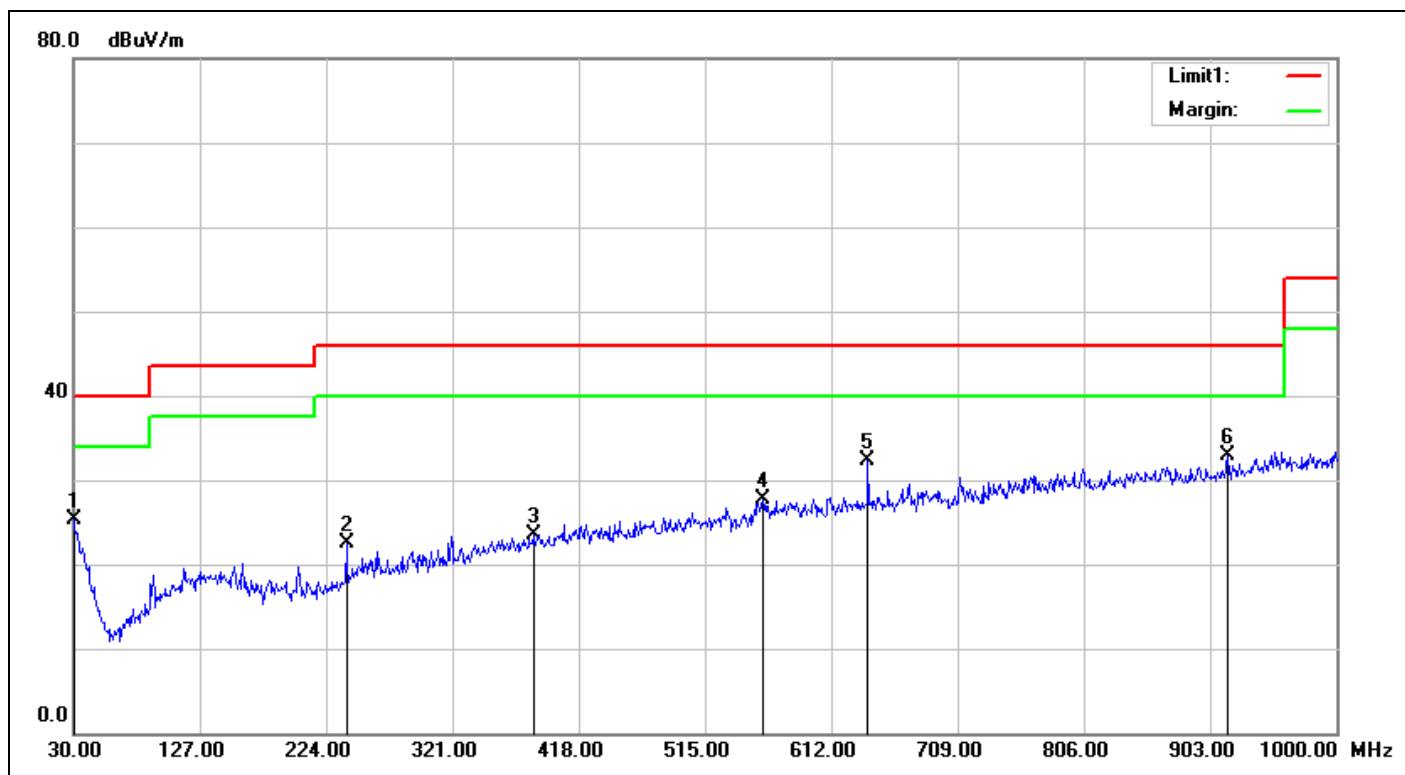
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Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/4/18 16:20:20
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%):	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Curry Chen
Test Mode:	2440-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.03	24.66	24.63	40.00	-15.37	QP	100	216	
2	202.6600	-8.70	31.95	23.25	43.50	-20.25	QP	100	92	
3	239.5200	-6.78	33.76	26.98	46.00	-19.02	QP	100	75	
4	304.5100	-4.58	34.01	29.43	46.00	-16.57	QP	100	104	
5	320.0299	-4.36	34.19	29.83	46.00	-16.17	QP	100	118	
6	640.1300	0.77	33.75	34.52	46.00	-11.48	QP	100	173	



Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/4/18 16:21:13
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%):	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Curry Chen
Test Mode:	2440-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.03	25.43	25.40	40.00	-14.60	QP	100	226	
2	239.5200	-6.78	29.25	22.47	46.00	-23.53	QP	100	115	
3	383.0800	-2.85	26.33	23.48	46.00	-22.52	QP	100	4	
4	559.6200	0.02	27.63	27.65	46.00	-18.35	QP	100	141	
5	640.1300	0.77	31.52	32.29	46.00	-13.71	QP	100	230	
6	916.5800	4.60	28.35	32.95	46.00	-13.05	QP	100	6	

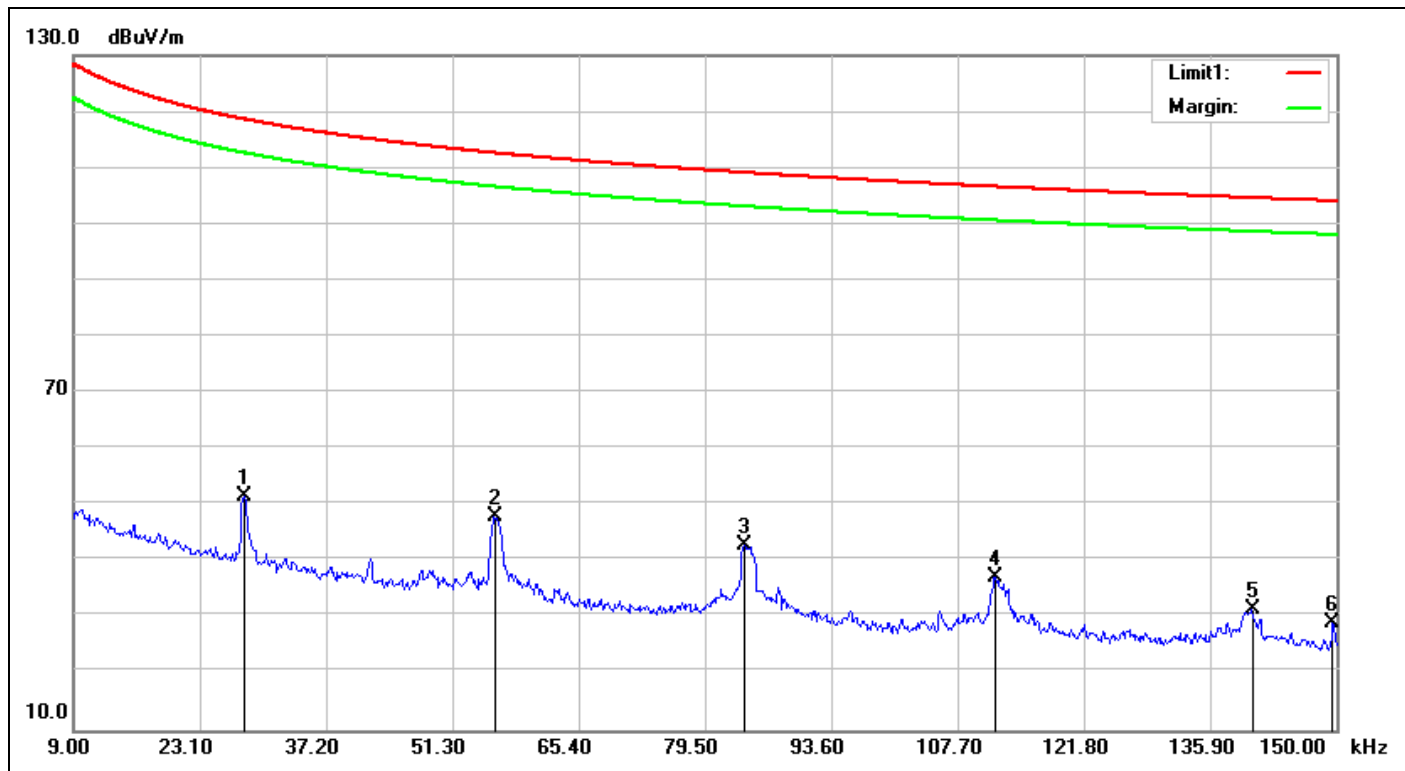
Spurious Emissions, TX Mode, 9kHz-30MHz



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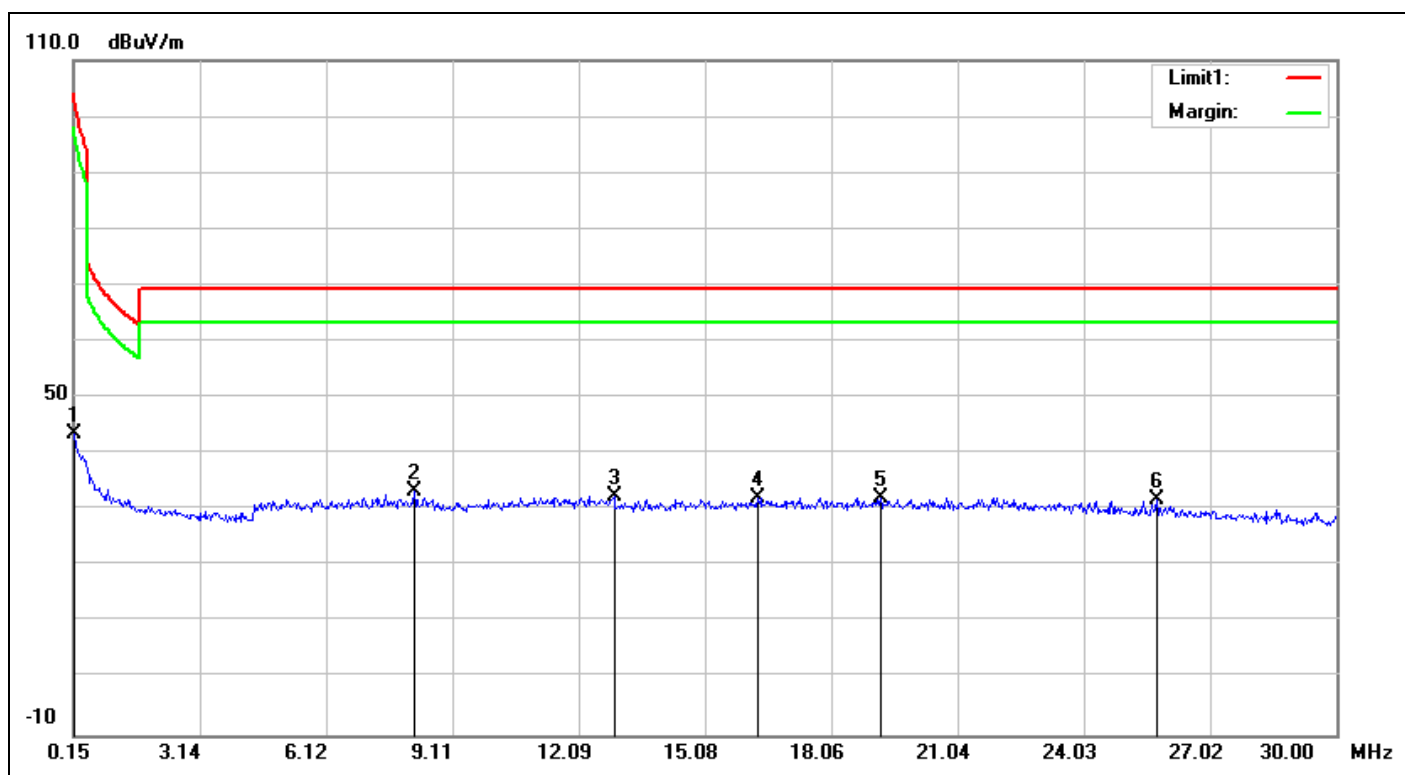
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2019/4/18 16:42:15
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%)	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Curry Chen
Test Mode:	2440-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0280	19.24	32.45	51.69	118.65	-66.96	QP	100	143	
2	0.0560	18.85	29.11	47.96	112.63	-64.67	QP	100	143	
3	0.0839	18.51	24.26	42.77	109.12	-66.35	QP	100	147	
4	0.1119	18.34	18.82	37.16	106.62	-69.46	QP	100	147	
5	0.1406	18.35	13.15	31.50	104.64	-73.14	QP	100	236	
6	0.1496	18.35	10.57	28.92	104.10	-75.18	QP	100	265	



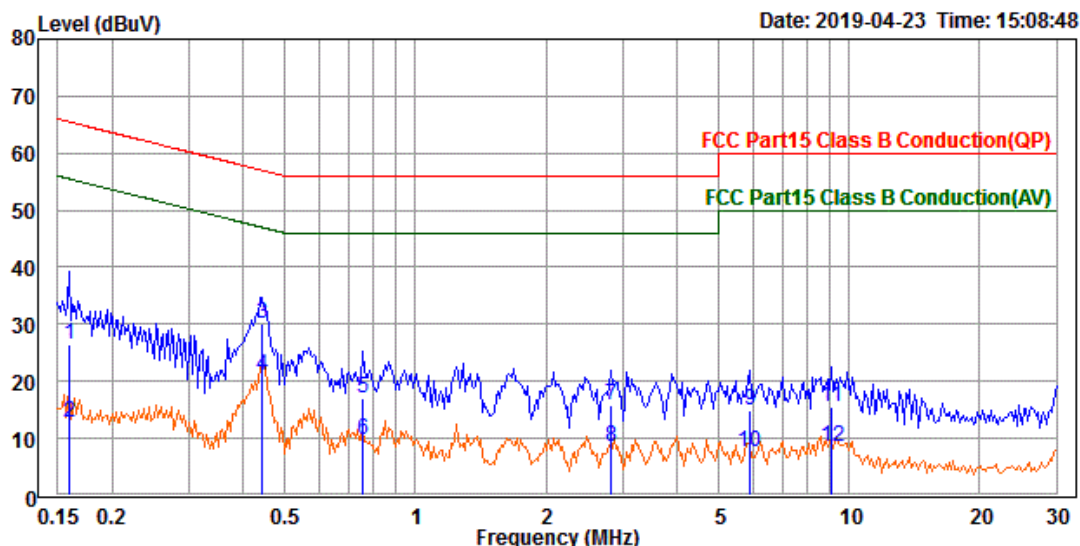
Service No.:	238102764	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2019/4/18 16:44:04
Applicant:	Eve Systems LLC	Test Rating:	AC 120V/60Hz
Product:	Eve Extend	Temp.(°C)/Hum.(%):	22(°C)/60%
Model No.:	20EAB9901	Test Engineer:	Curry Chen
Test Mode:	2440-Tx		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1500	18.36	25.16	43.52	104.08	-60.56	QP	100	216	
2	8.2095	20.09	13.26	33.35	69.50	-36.15	QP	100	167	
3	12.9258	20.78	11.66	32.44	69.50	-37.06	QP	100	243	
4	16.3287	21.18	11.01	32.19	69.50	-37.31	QP	100	302	
5	19.2242	21.51	10.74	32.25	69.50	-37.25	QP	100	239	
6	25.7613	21.81	10.04	31.85	69.50	-37.65	QP	100	342	

Spurious Emissions, AC Mains



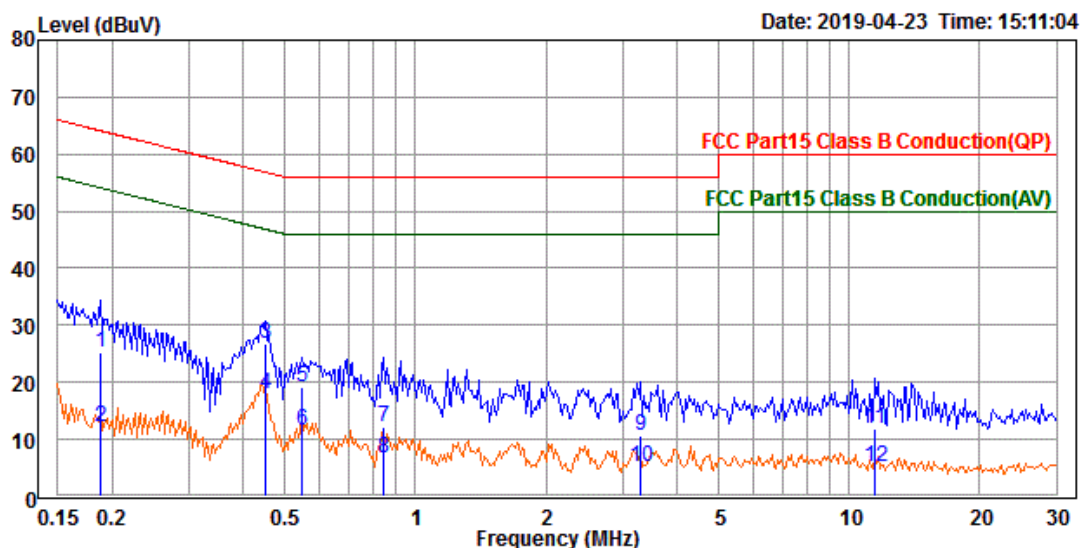
TUV Rheinland Taiwan Ltd.
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105
Tel:+886-2172-7000 Fax:+886-2528-0018



Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) line1
Test Engineer: Kevin Kuo
Applicant :
Product : Eve Extend
Model No. : 20EAB9901
Test Rating : 120Vac/60Hz
Tmp/Hum : 24.2 °C / 34%
Memo : BLE Mode

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.159	16.89	9.68	26.57	65.50	-38.93	QP
2	0.159	2.96	9.68	12.64	55.50	-42.86	Average
3	0.443	20.50	9.69	30.19	57.00	-26.81	QP
4	0.443	11.37	9.69	21.06	47.00	-25.94	Average
5	0.758	7.45	9.70	17.15	56.00	-38.85	QP
6	0.758	0.12	9.70	9.82	46.00	-36.18	Average
7	2.816	6.09	9.73	15.82	56.00	-40.18	QP
8	2.816	-1.24	9.73	8.49	46.00	-37.51	Average
9	5.876	5.00	9.78	14.78	60.00	-45.22	QP
10	5.876	-2.14	9.78	7.64	50.00	-42.36	Average
11	9.101	5.79	9.81	15.60	60.00	-44.40	QP
12	9.101	-1.26	9.81	8.55	50.00	-41.45	Average



Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) neutral
Test Engineer: Kevin Kuo
Applicant :
Product : Eve Extend
Model No. : 20EAB9901
Test Rating : 120Vac/60Hz
Tmp/Hum : 24.2 °C / 34%
Memo : BLE Mode

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.189	15.54	9.68	25.22	64.10	-38.88	QP
2	0.189	2.61	9.68	12.29	54.10	-41.81	Average
3	0.452	17.02	9.68	26.70	56.84	-30.14	QP
4	0.452	8.38	9.68	18.06	46.84	-28.78	Average
5	0.546	9.54	9.68	19.22	56.00	-36.78	QP
6	0.546	1.86	9.68	11.54	46.00	-34.46	Average
7	0.846	2.54	9.70	12.24	56.00	-43.76	QP
8	0.846	-2.98	9.70	6.72	46.00	-39.28	Average
9	3.302	0.92	9.74	10.66	56.00	-45.34	QP
10	3.302	-4.54	9.74	5.20	46.00	-40.80	Average
11	11.438	2.05	9.86	11.91	60.00	-48.09	QP
12	11.438	-4.75	9.86	5.11	50.00	-44.89	Average