

Test Report No.50076997 001

Appendix D: Radiated Spurious Emission Data

(File: 50076997-001 AppendixD)

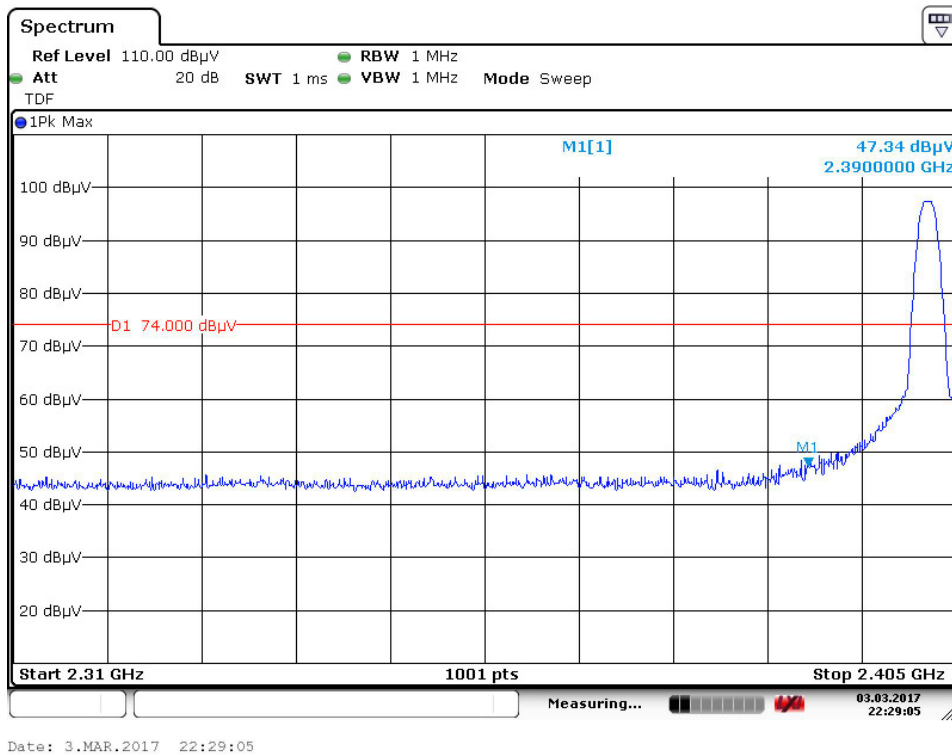
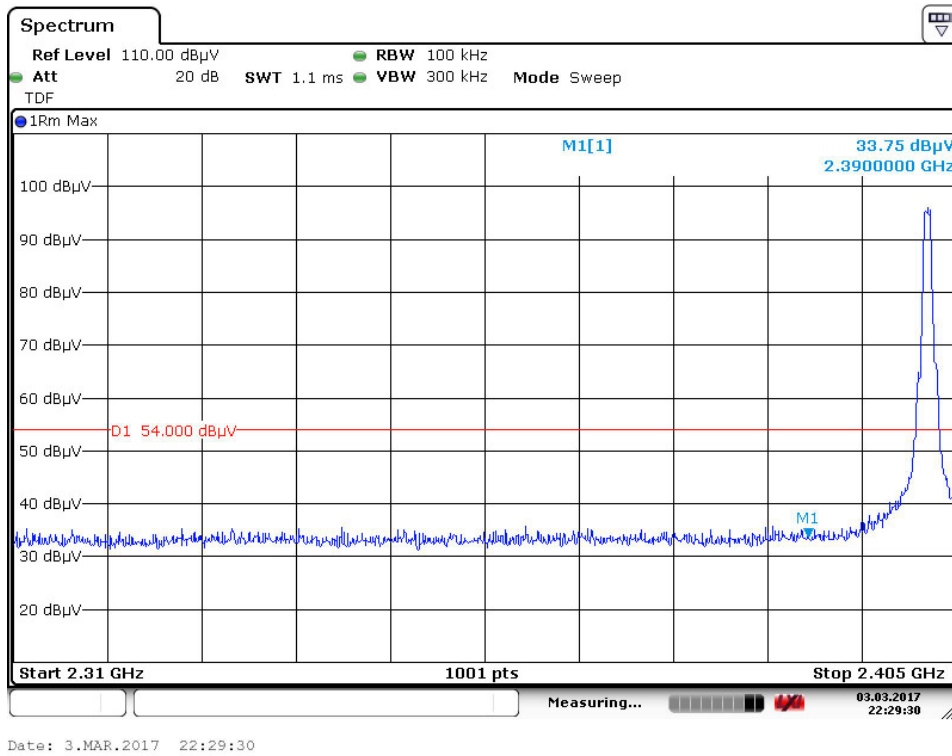
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Spurious Emissions, Band Edges, 2.35-2.5G

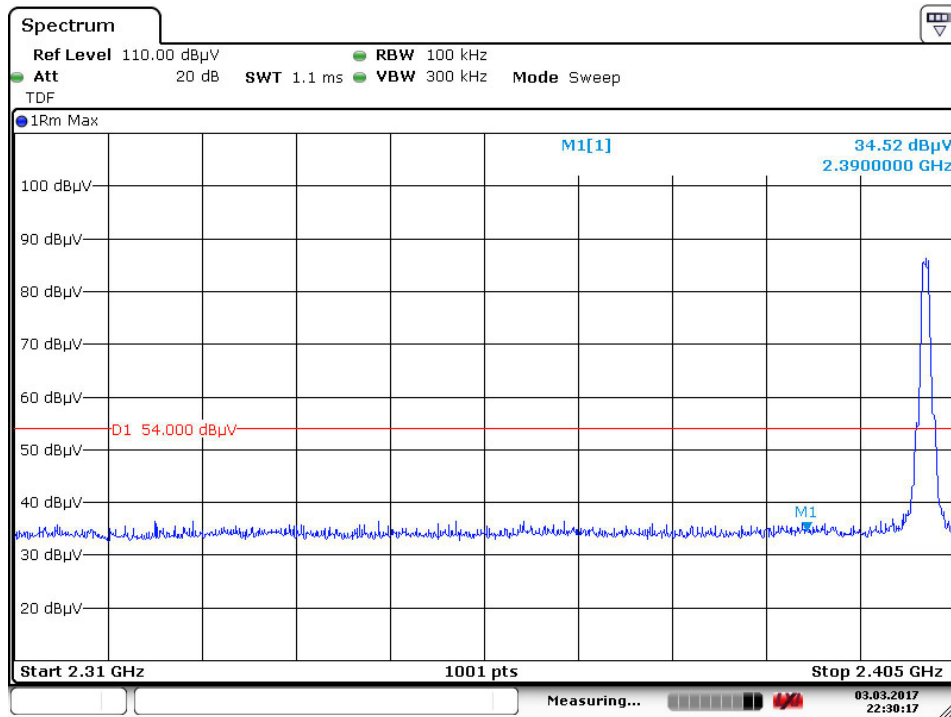
Radiated Bandedge (GFSK)

Low Channel (Hor)

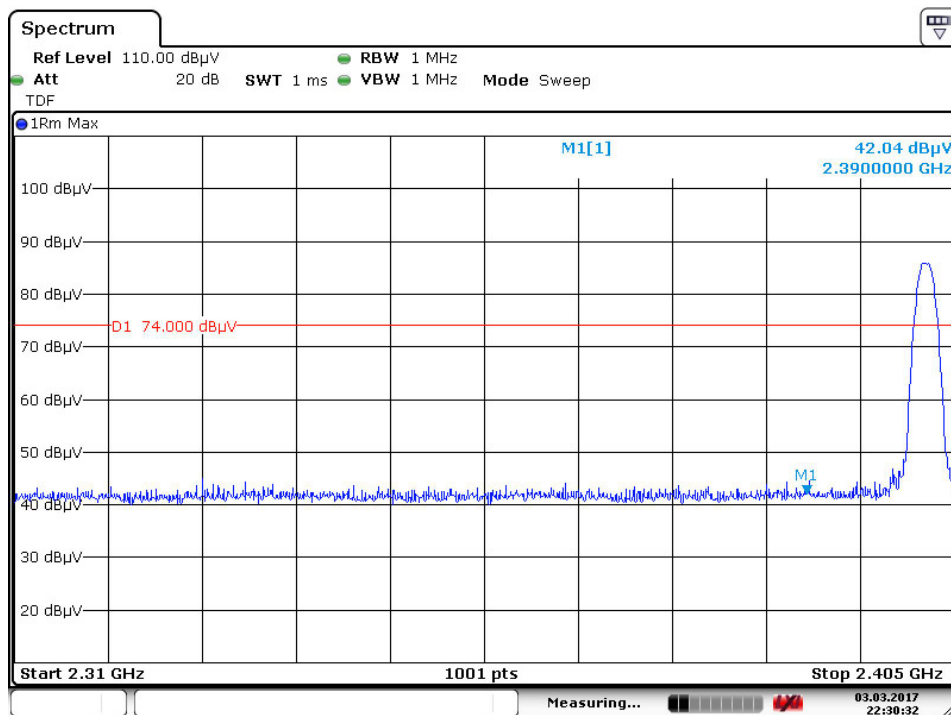


Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



Date: 3.MAR.2017 22:30:17

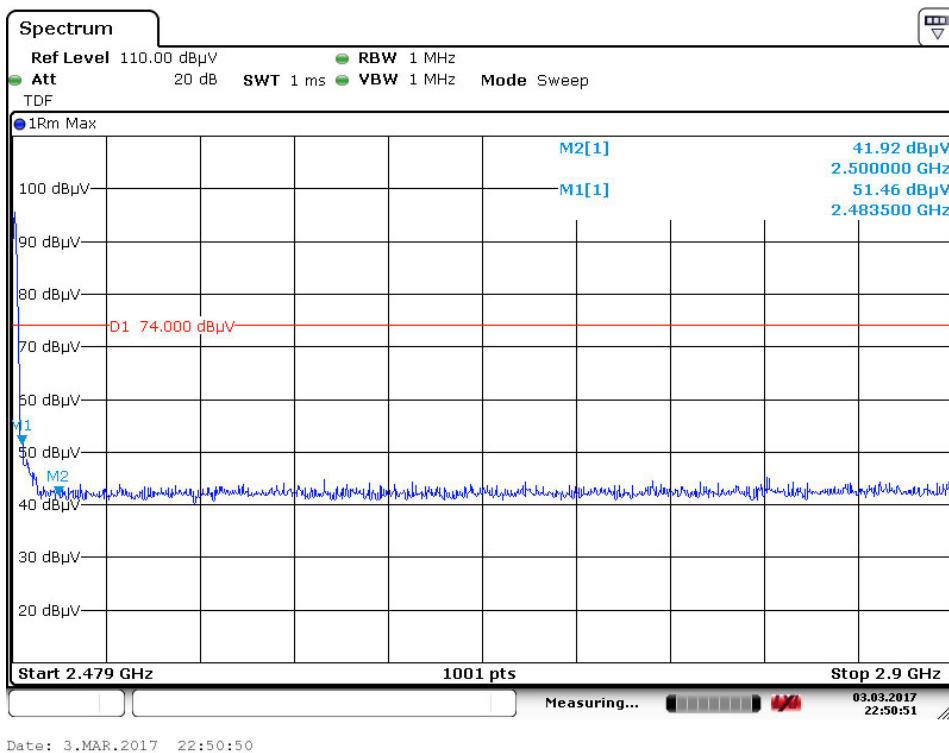
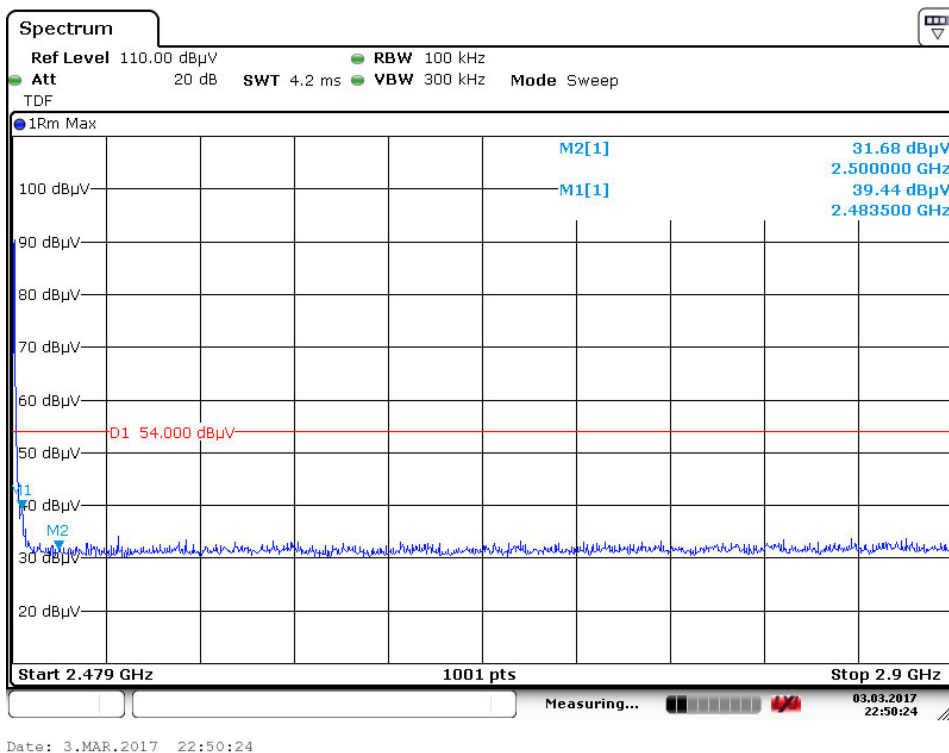


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Spurious Emissions, Band Edge, 2.35-2.5G

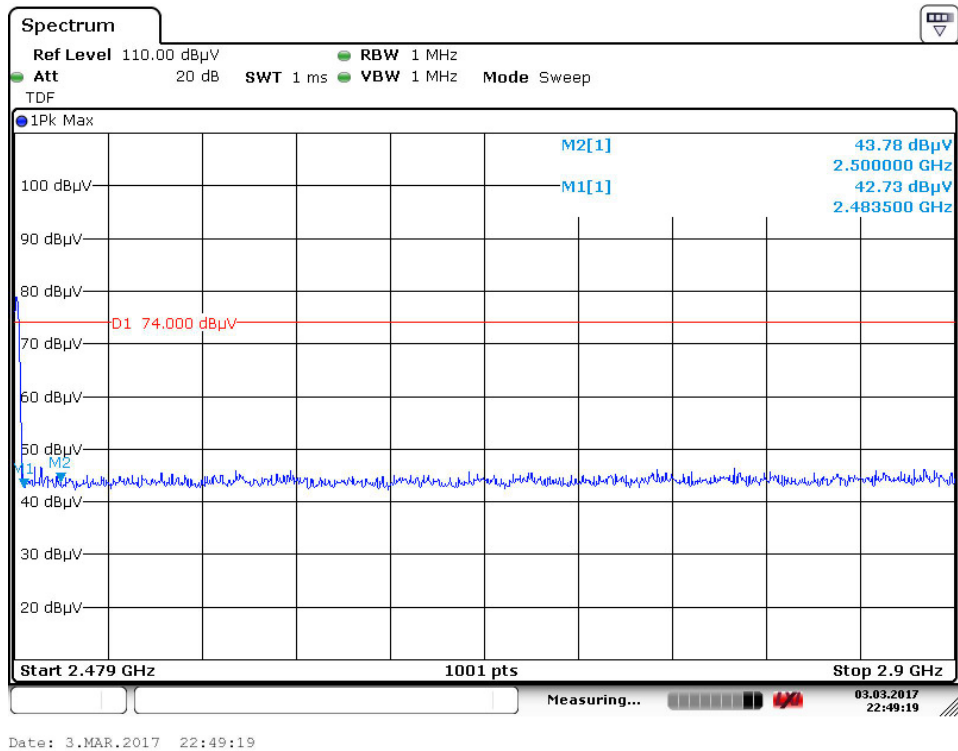
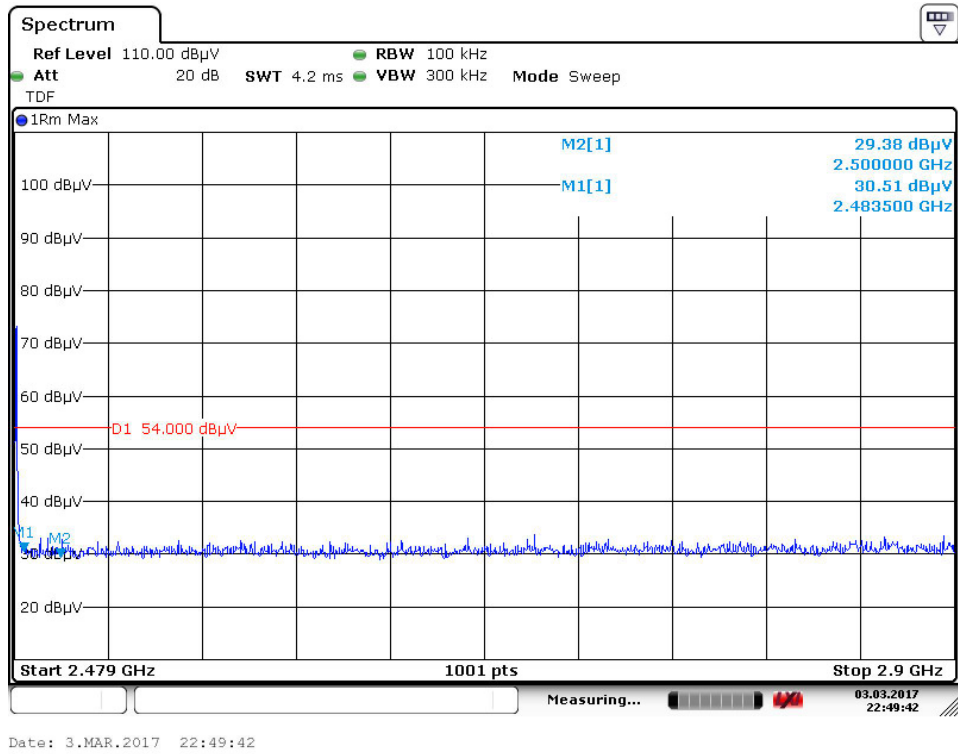
Radiated Bandedge (GFSK)

High Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

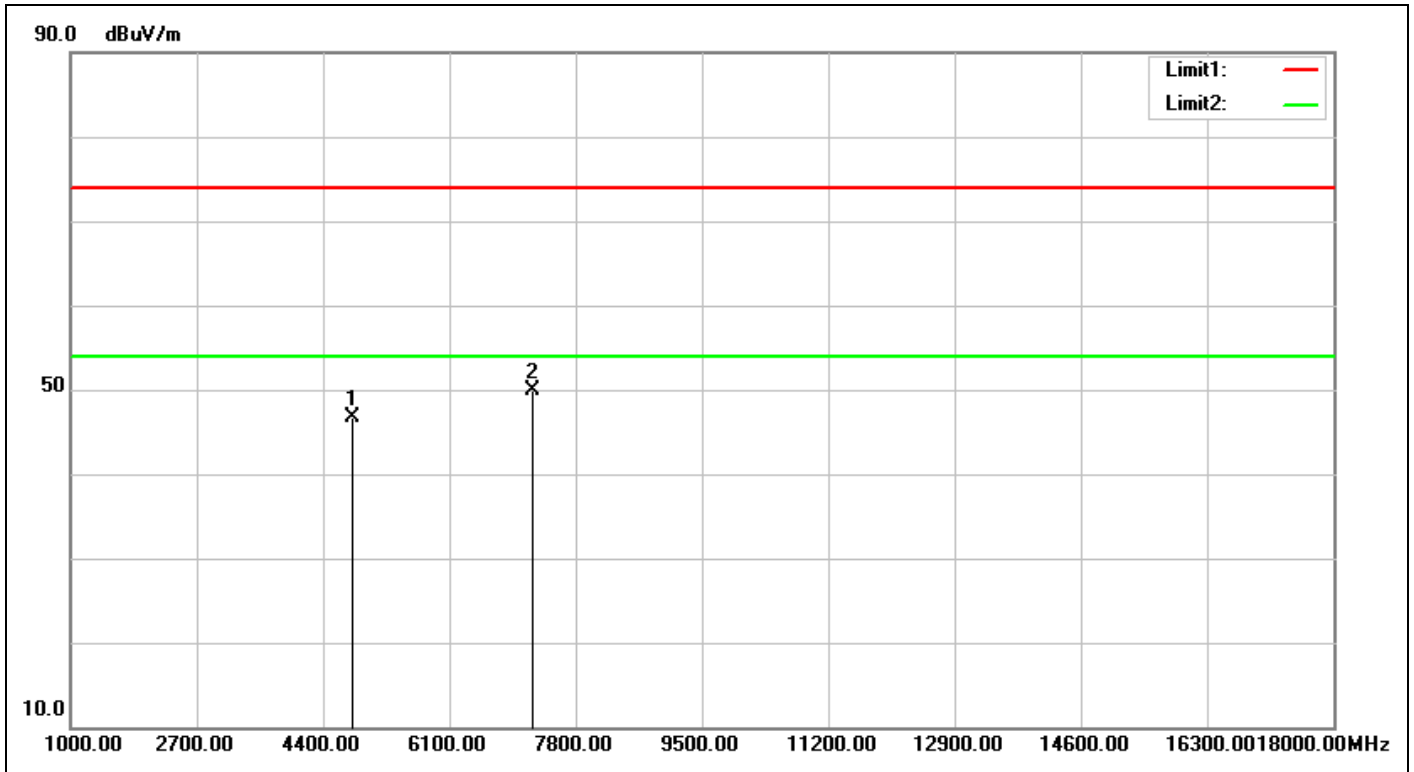
Spurious Emissions, TX Mode, 1-18G



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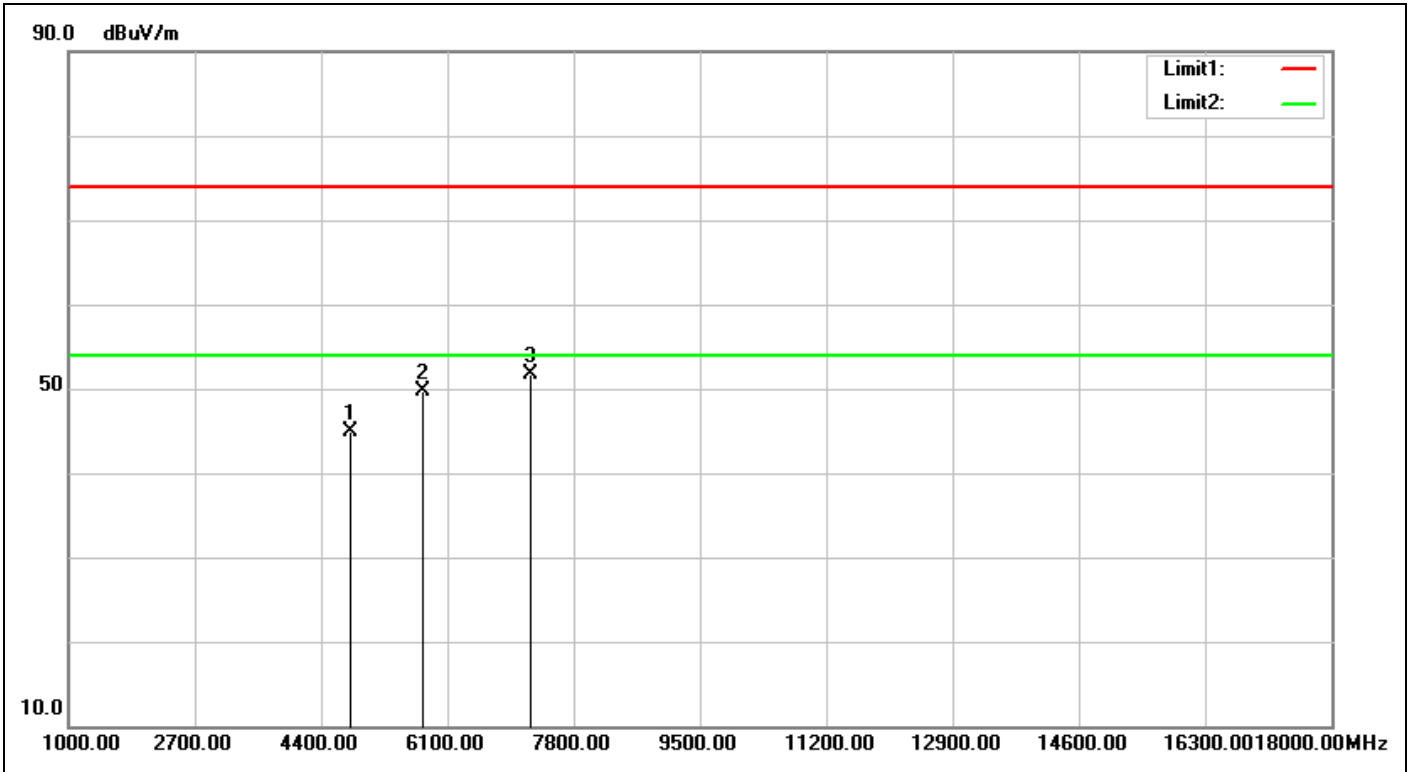
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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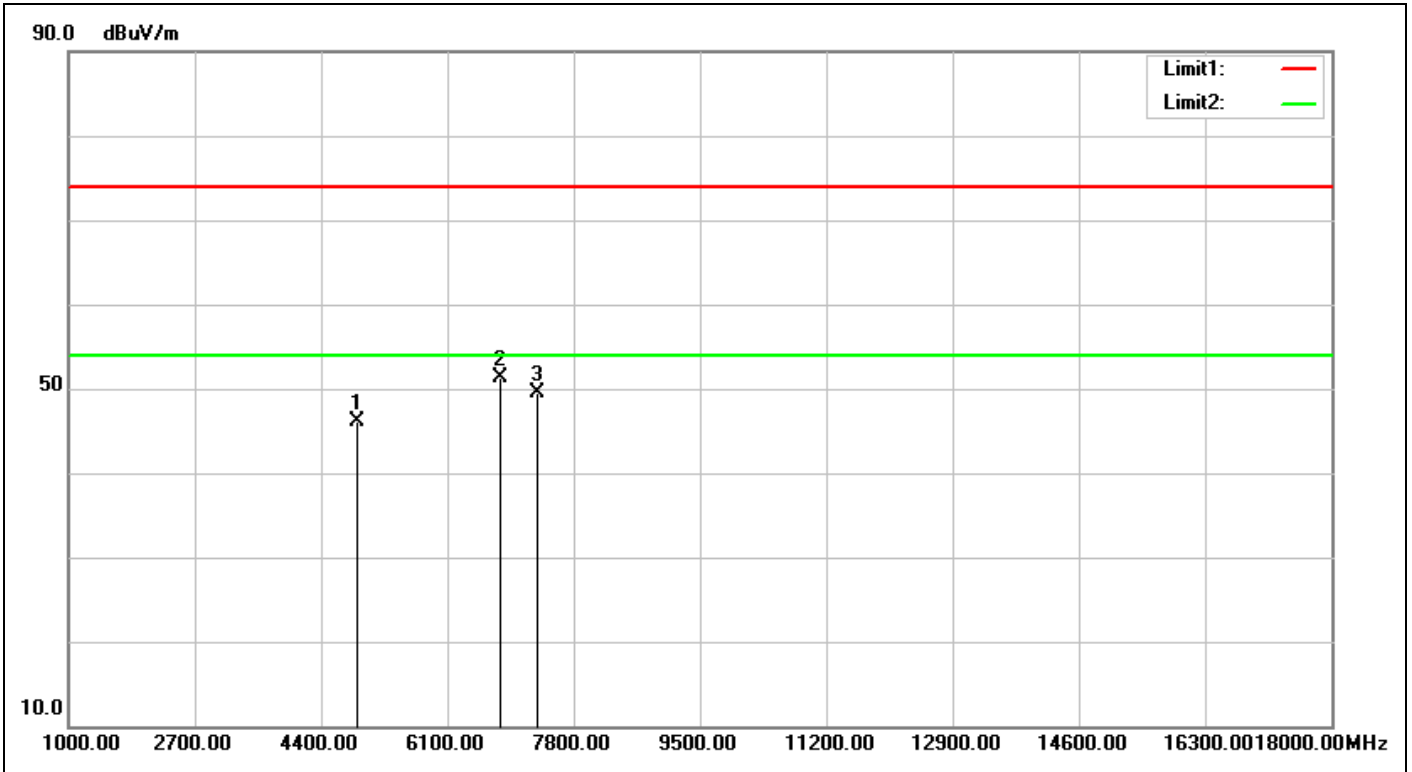
Service No.:	114061029	Test Distance:	3m
Test Standard:	Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/3 22:29:50
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
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	4804.000	-2.66	49.39	46.73	74.00	-27.27	peak		0	
2	7206.000	5.58	44.36	49.94	74.00	-24.06	peak		0	



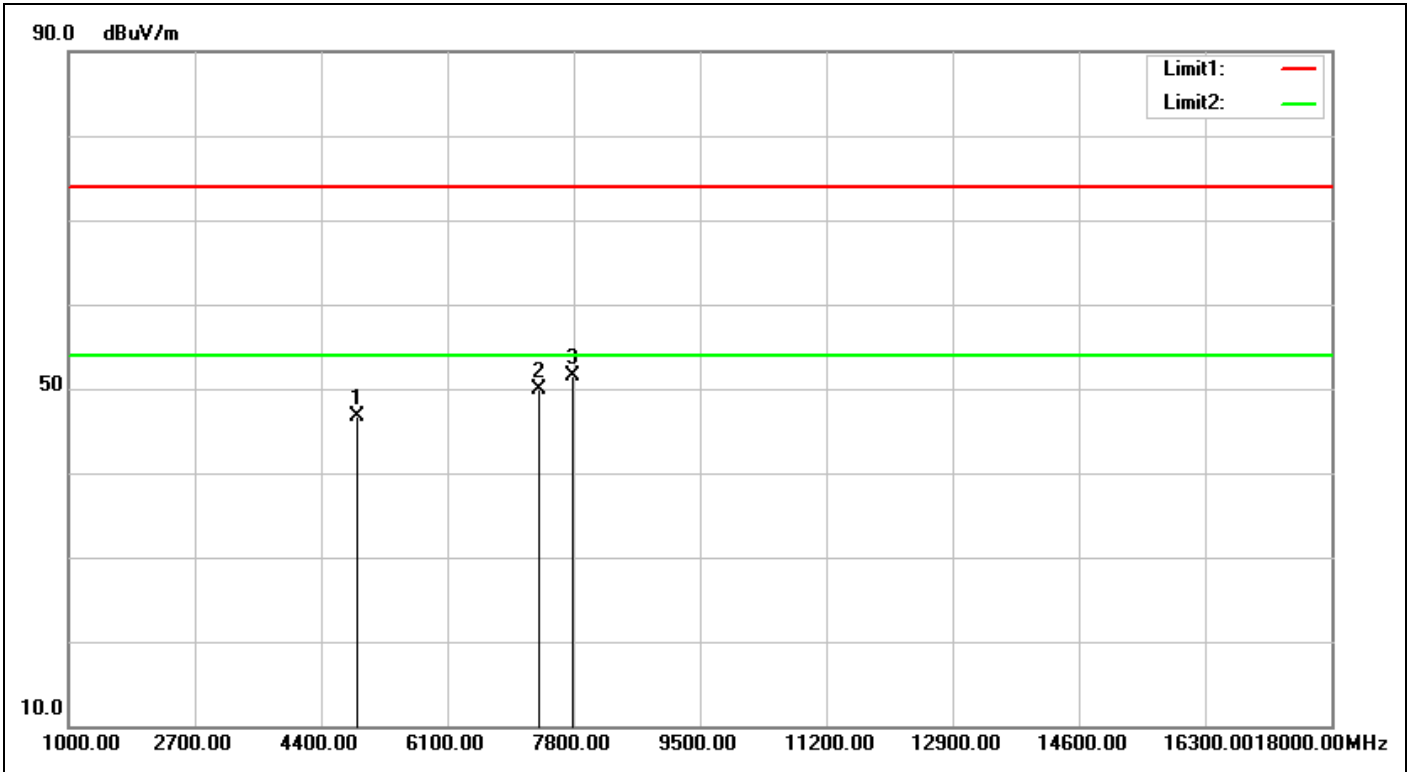
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Test Standard:	Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/3 22:30:53
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
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	4804.000	-2.66	47.58	44.92	74.00	-29.08	peak			
2	5777.000	2.36	47.34	49.70	74.00	-24.30	peak	100	111	
3	7206.000	5.58	46.07	51.65	74.00	-22.35	peak		0	



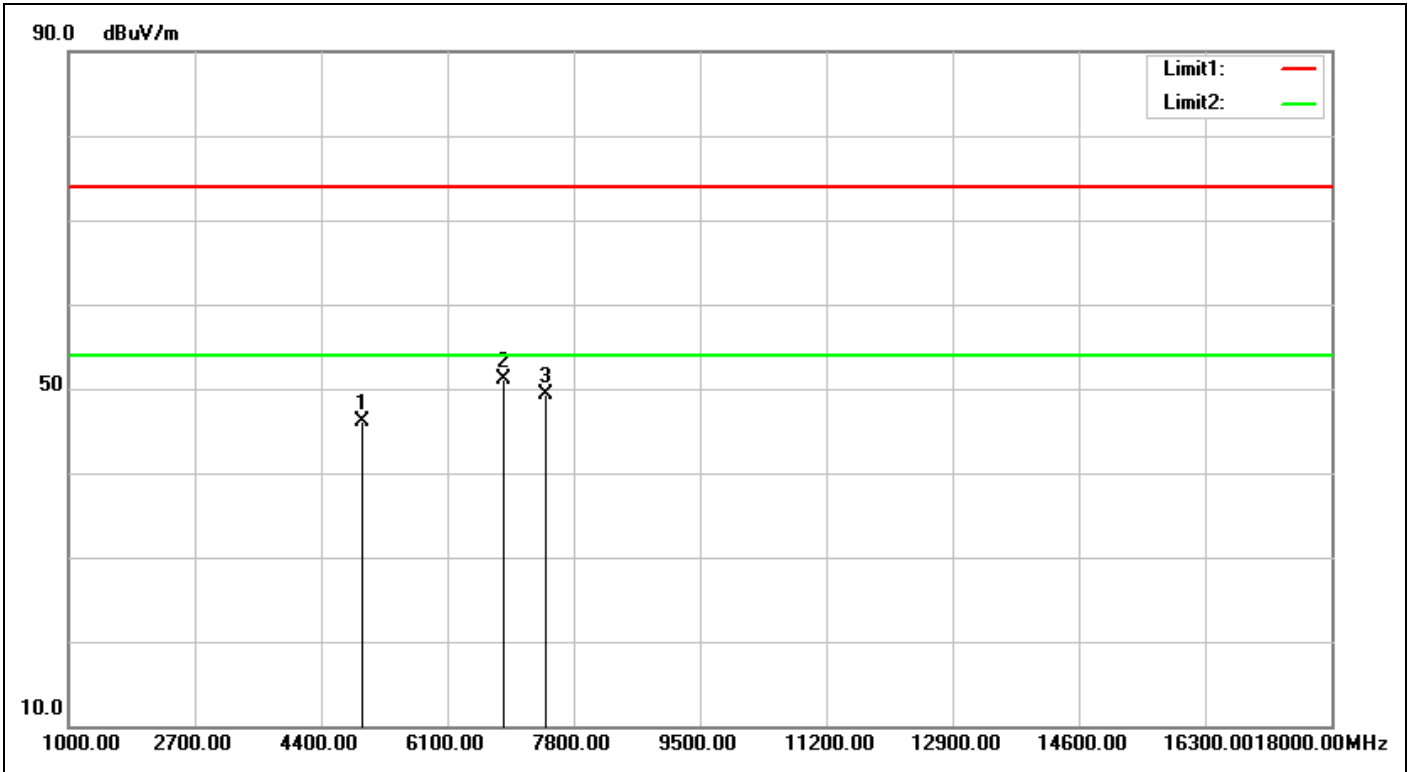
Service No.:	114061029	Test Distance:	3m
Test Standard:	Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/3 22:33:57
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
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	4880.000	-2.48	48.57	46.09	74.00	-27.91	peak			
2	6814.000	5.19	46.04	51.23	74.00	-22.77	peak	100	80	
3	7320.000	5.93	43.61	49.54	74.00	-24.46	peak			



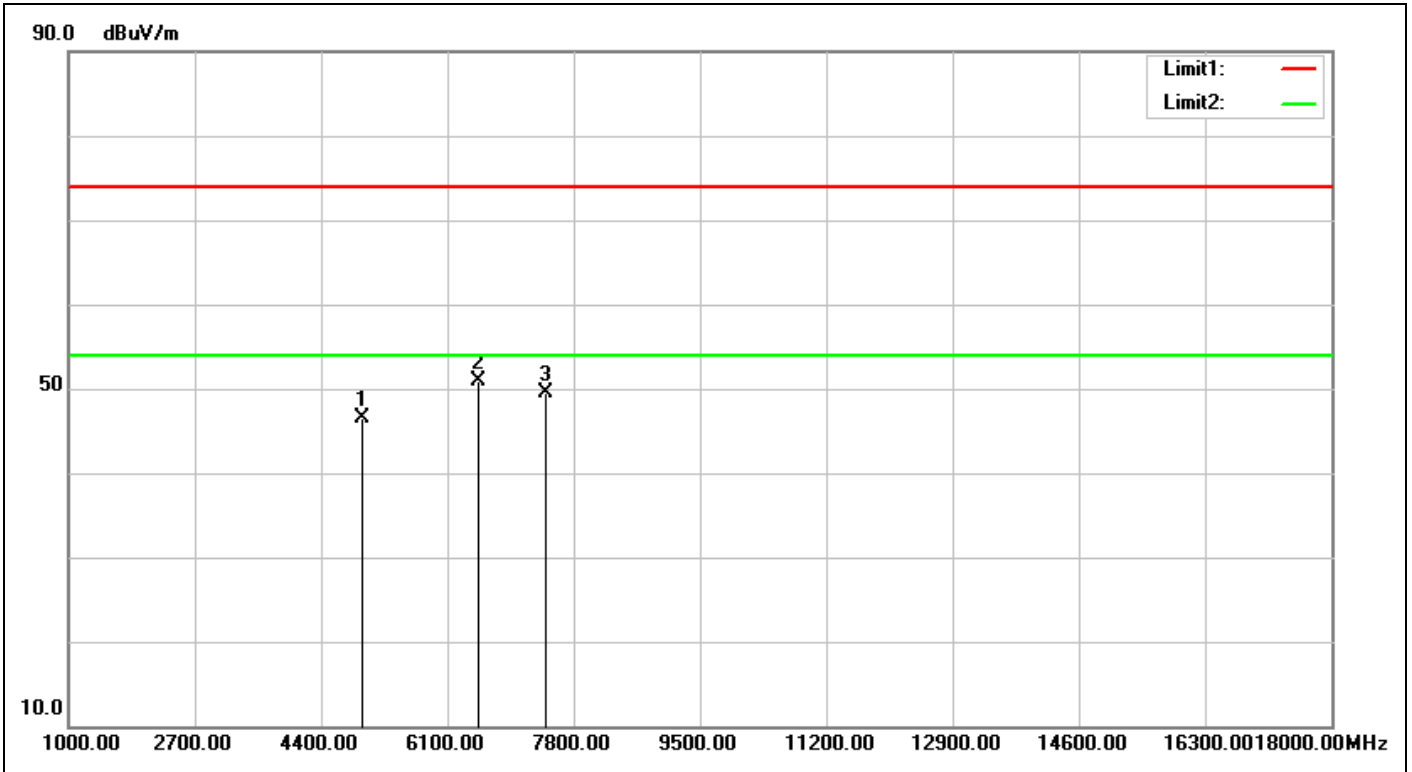
Service No.:	114061029	Test Distance:	3m
Test Standard:	Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/3 22:34:59
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
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	4880.000	-2.48	49.16	46.68	74.00	-27.32	peak			
2	7320.000	5.93	43.95	49.88	74.00	-24.12	peak			
3	7783.000	6.42	45.01	51.43	74.00	-22.57	peak	100	16	



Service No.:	114061029	Test Distance:	3m
Test Standard:	Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/3 22:38:16
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
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	4960.000	-2.31	48.43	46.12	74.00	-27.88	peak			
2	6865.000	5.12	45.89	51.01	74.00	-22.99	peak	100	236	
3	7440.000	6.28	43.08	49.36	74.00	-24.64	peak			



Service No.:	114061029	Test Distance:	3m
Test Standard:	Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/3 22:39:19
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
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	4960.000	-2.31	48.90	46.59	74.00	-27.41	peak			
2	6508.000	5.53	45.33	50.86	74.00	-23.14	peak	100	190	
3	7440.000	6.28	43.23	49.51	74.00	-24.49	peak			

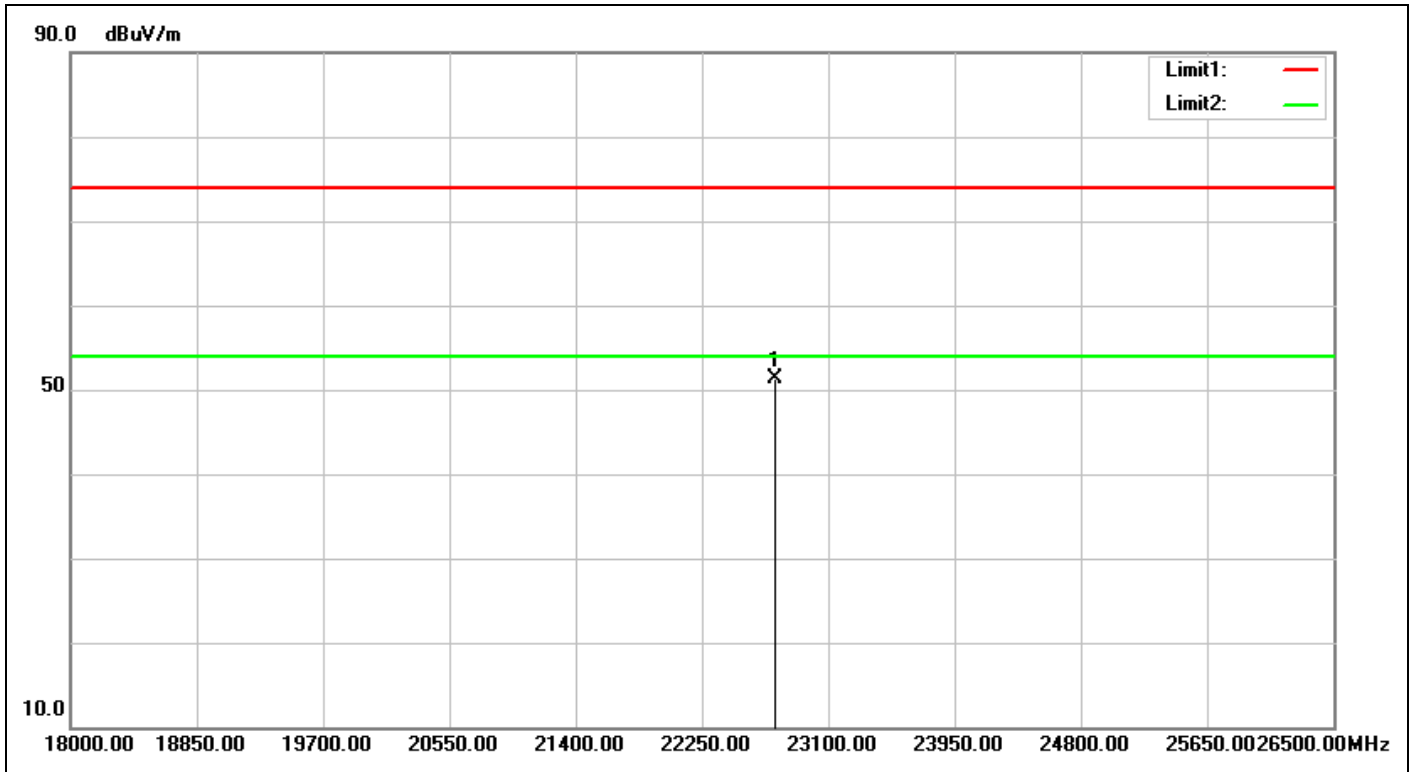
Spurious Emissions, TX Mode, 18-26G



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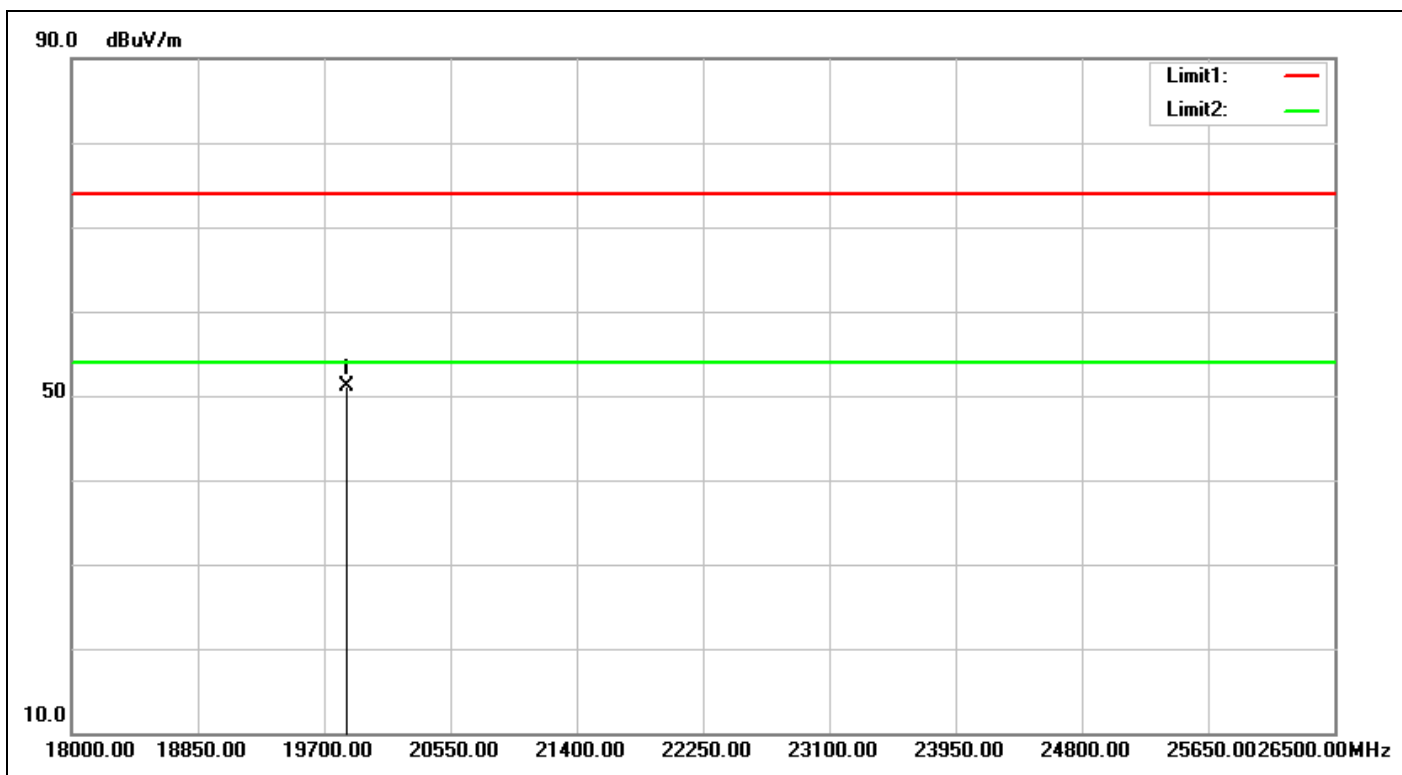
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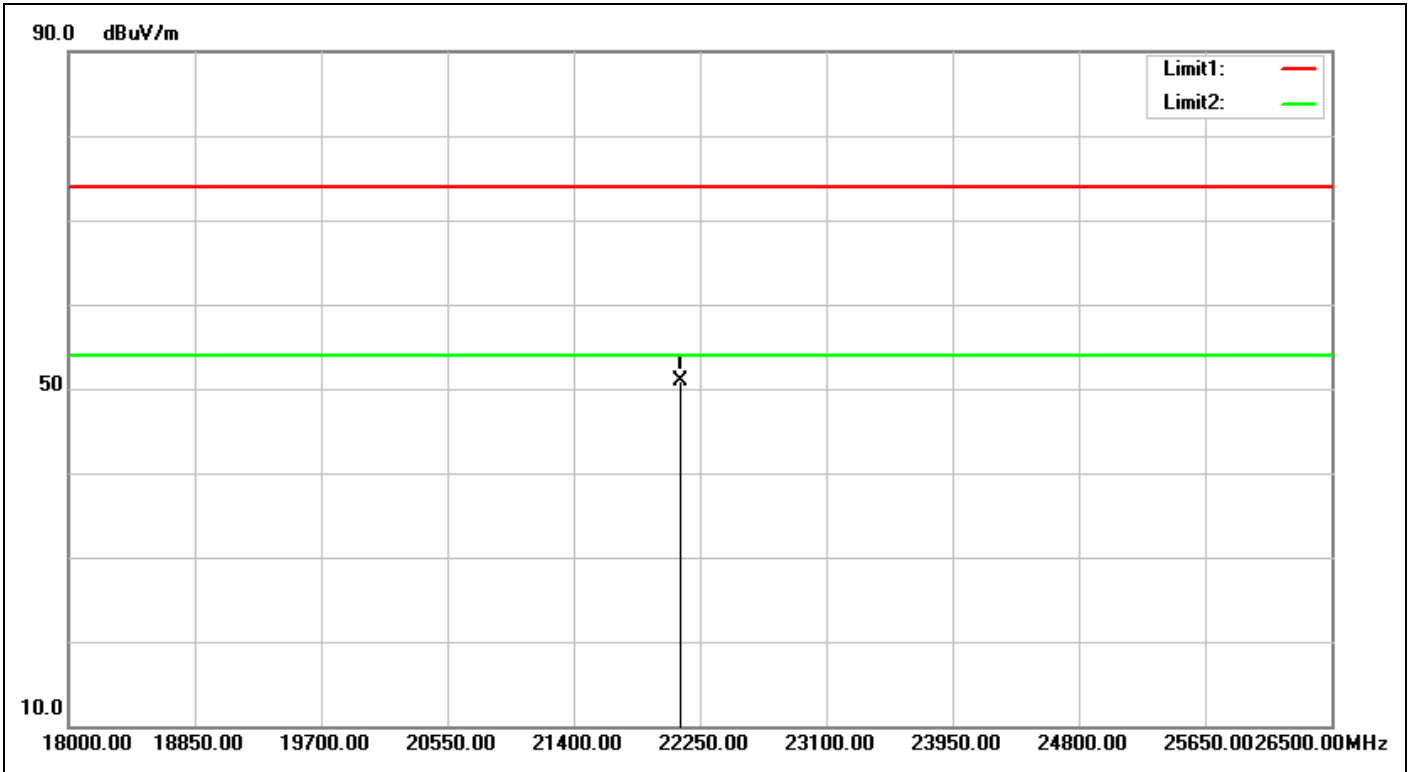
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Test item:	Radiation Emission	Test Time:	2017/3/3 22:52:49
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22743.000	32.70	18.54	51.24	74.00	-22.76	peak			



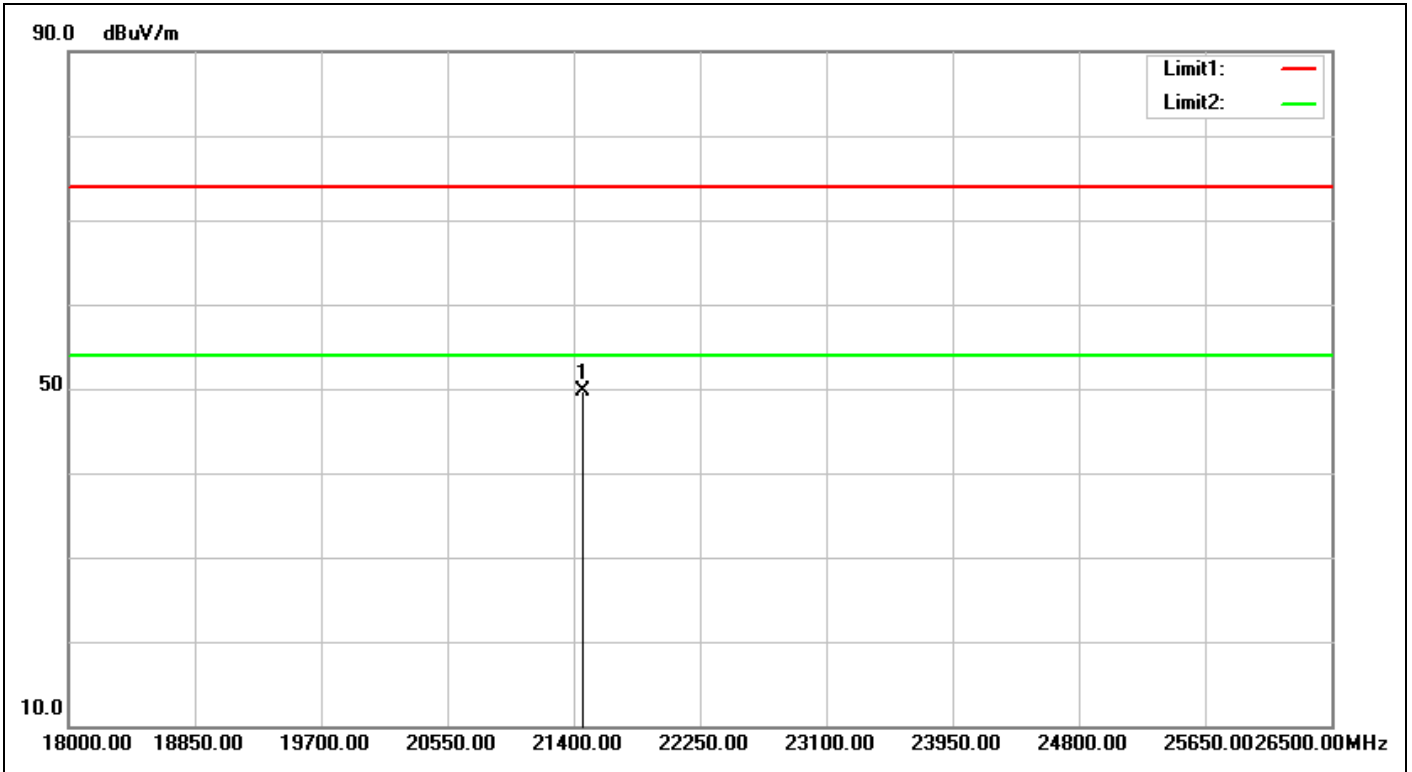
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Test Standard:	Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/3 22:52:59
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
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	19853.000	31.40	19.71	51.11	74.00	-22.89	peak			



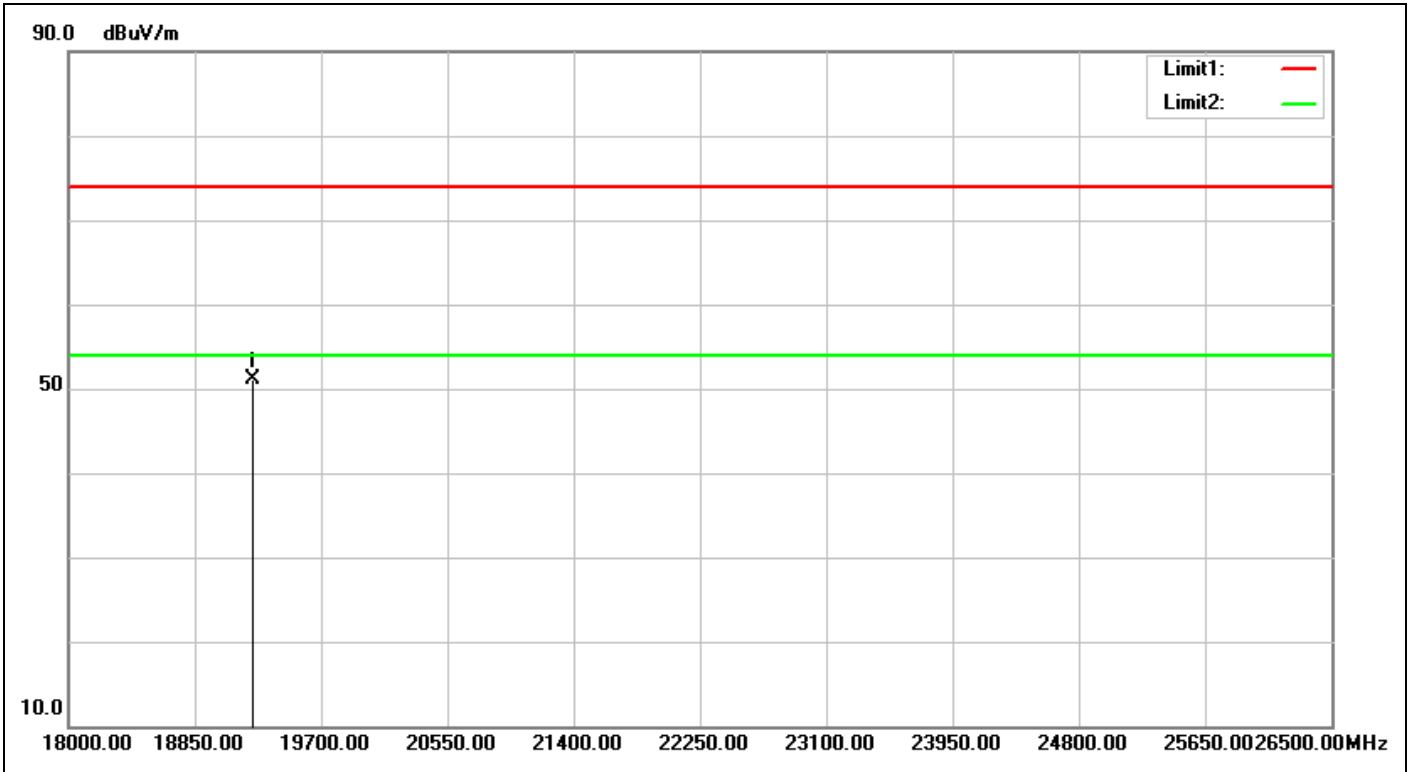
Service No.:	114061029	Test Distance:	3m
Test Standard:	Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/3 22:53:12
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
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	22122.500	33.06	17.75	50.81	74.00	-23.19	peak			



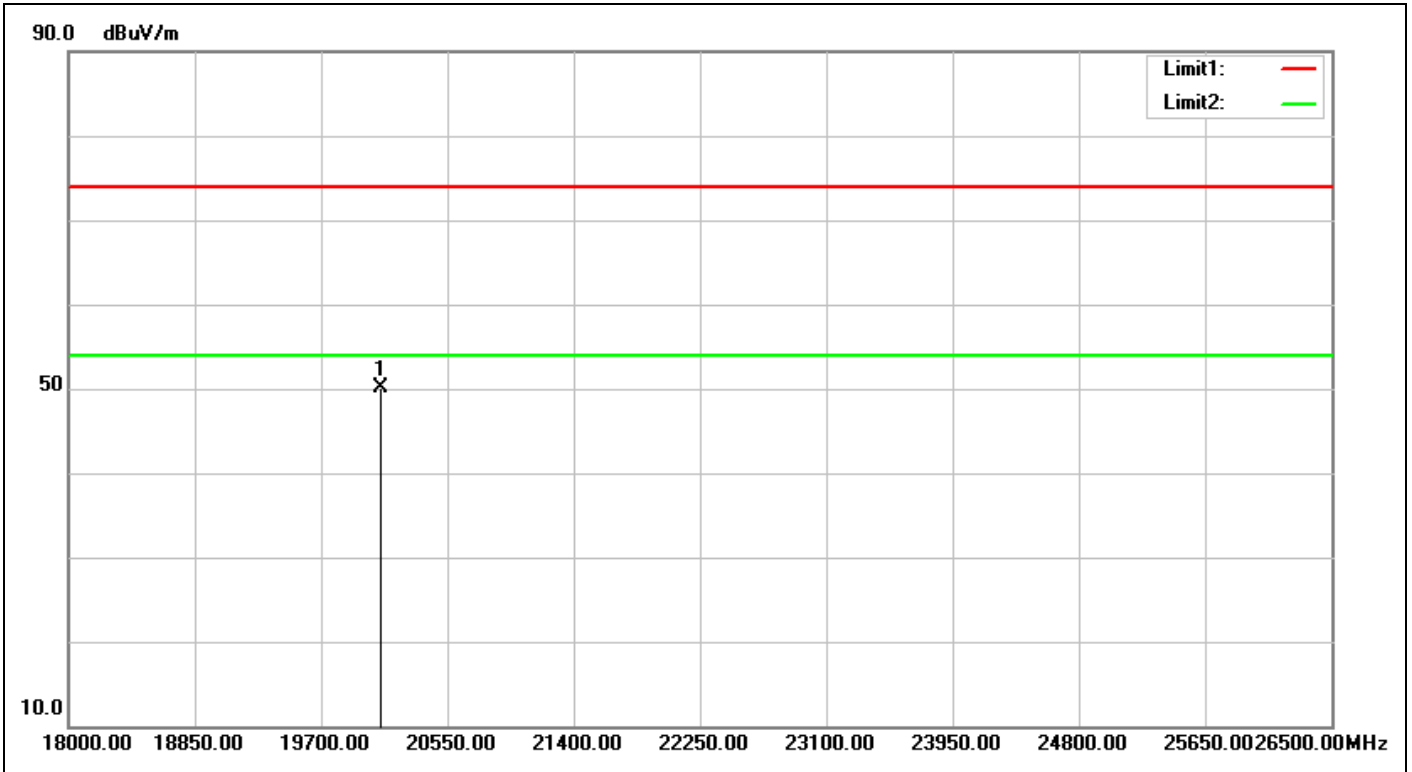
Service No.:	114061029	Test Distance:	3m
Test Standard:	Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/3 22:53:21
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
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	21459.500	32.58	17.12	49.70	74.00	-24.30	peak			



Service No.:	114061029	Test Distance:	3m
Test Standard:	Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/3 22:53:33
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
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	19241.000	30.84	20.34	51.18	74.00	-22.82	peak			



Service No.:	114061029	Test Distance:	3m
Test Standard:	Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/3 22:53:42
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
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	20099.500	31.53	18.55	50.08	74.00	-23.92	peak			

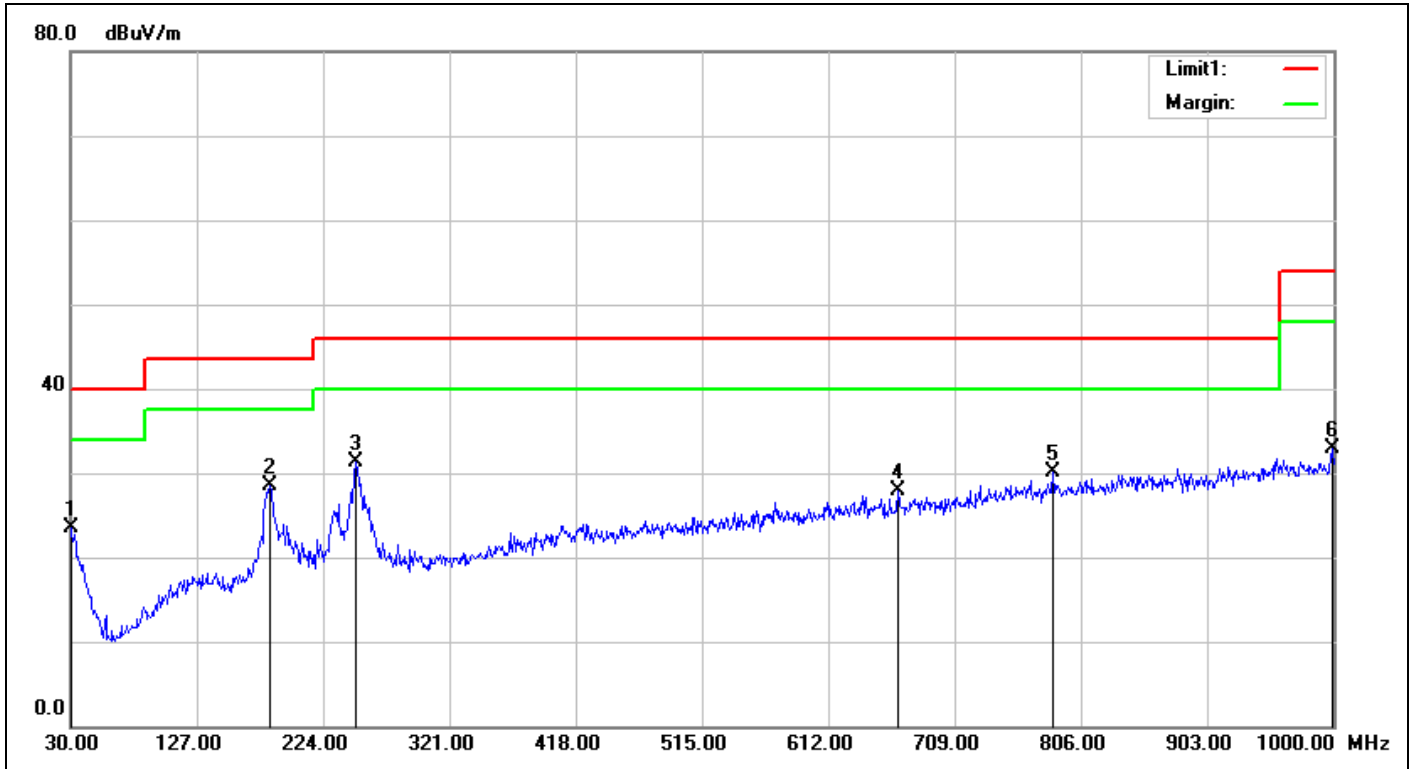
Spurious Emissions, TX Mode, 30M-1G



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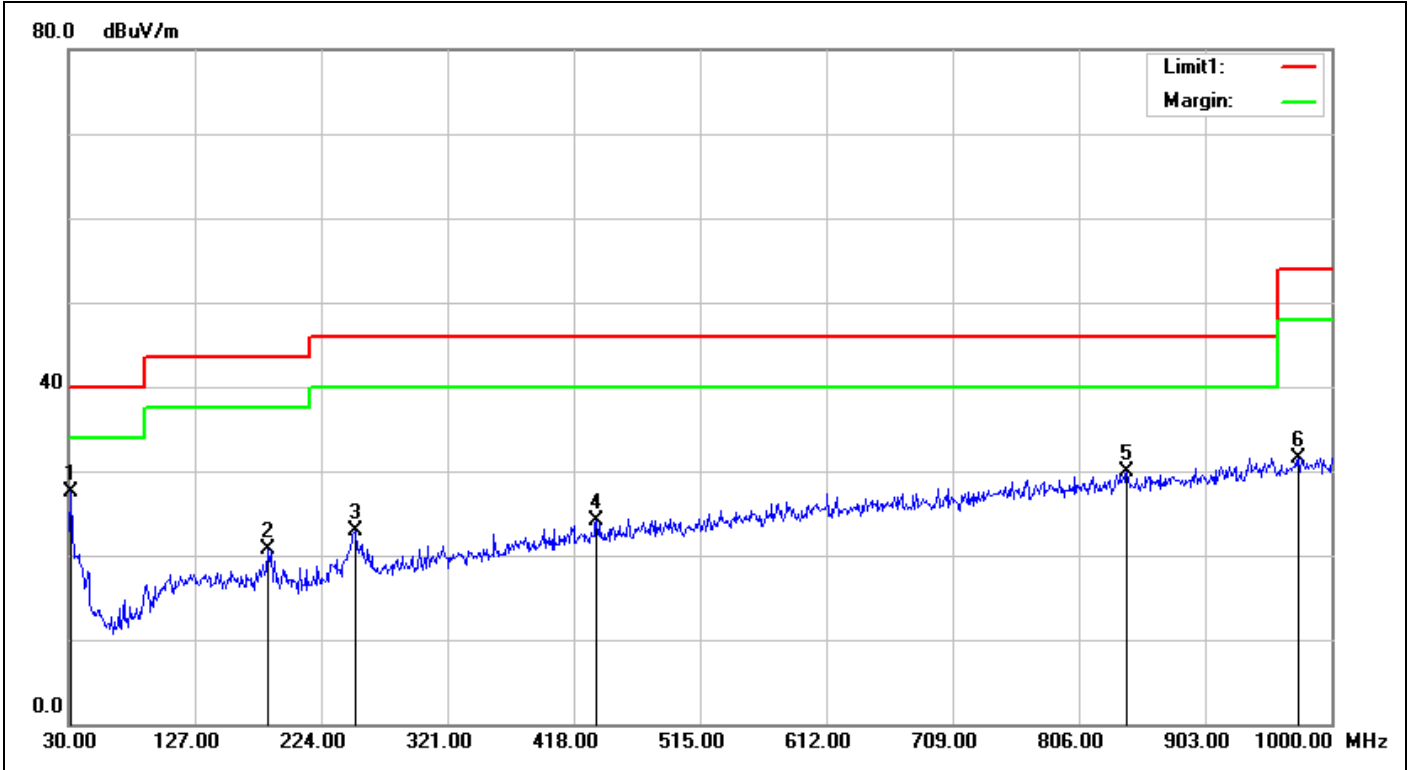
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Service No.:	114061029	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/3 23:14:34
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
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	-0.07	23.53	23.46	40.00	-16.54	QP	100	78	
2	183.2599	-9.61	38.13	28.52	43.50	-14.98	QP	100	116	
3	249.2199	-5.81	37.20	31.39	46.00	-14.61	QP	100	148	
4	665.3500	0.70	27.12	27.82	46.00	-18.18	QP	100	17	
5	784.6599	2.68	27.52	30.20	46.00	-15.80	QP	100	351	
6	999.0299	5.83	27.08	32.91	54.00	-21.09	QP	100	19	

Spurious Emissions, RX Mode, 1-18G



Service No.:	114061029	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/3 23:15:37
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
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	31.9400	-1.18	28.73	27.55	40.00	-12.45	QP	100	327	
2	183.2600	-9.61	30.32	20.71	43.50	-22.79	QP	100	84	
3	250.1900	-5.71	28.69	22.98	46.00	-23.02	QP	100	313	
4	435.4600	-2.19	26.25	24.06	46.00	-21.94	QP	100	116	
5	842.8600	3.56	26.37	29.93	46.00	-16.07	QP	100	204	
6	974.7800	5.60	25.97	31.57	54.00	-22.43	QP	100	183	

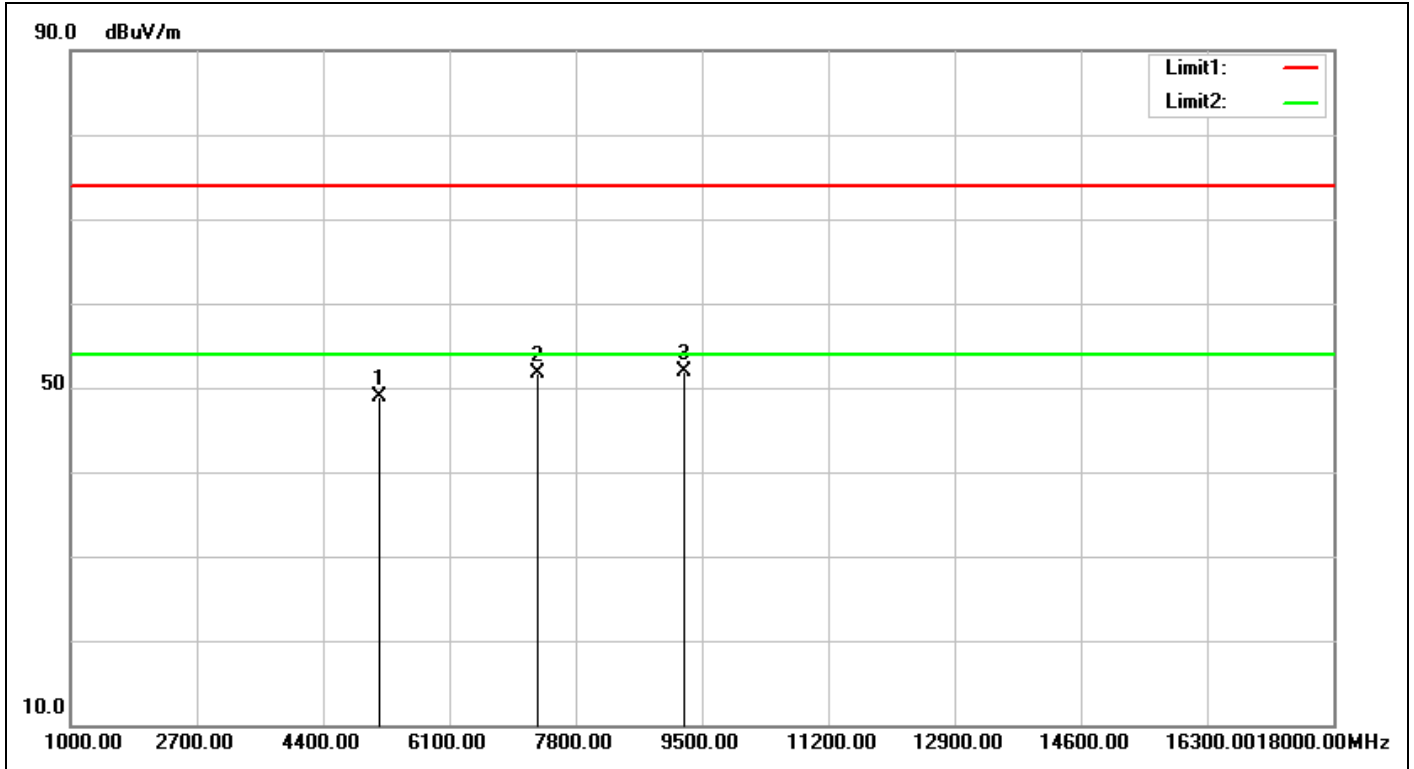
Spurious Emissions, RX Mode, 1-18G



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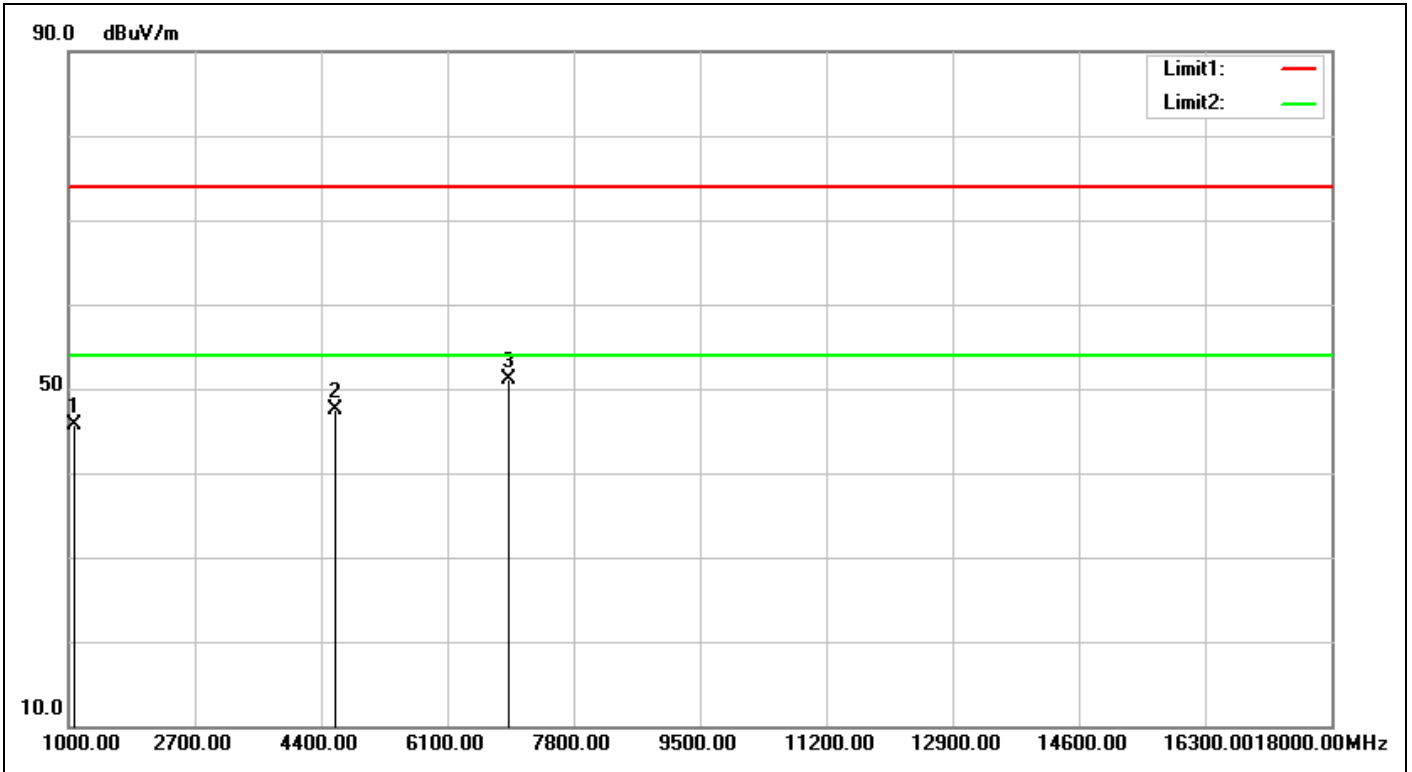
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Service No.:	114061029	Test Distance:	3m
Test Standard:	Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/3 22:41:35
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	5148.000	-1.42	50.25	48.83	74.00	-25.17	peak	100	155	
2	7290.000	5.83	45.87	51.70	74.00	-22.30	peak	100	335	
3	9262.000	6.72	45.24	51.96	74.00	-22.04	peak	100	288	



Service No.:	114061029	Test Distance:	3m
Test Standard:	Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/3 22:42:38
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1068.000	-9.48	55.19	45.71	74.00	-28.29	peak	100	210	
2	4587.000	-3.15	50.60	47.45	74.00	-26.55	peak	100	237	
3	6916.000	5.07	45.96	51.03	74.00	-22.97	peak	100	11	

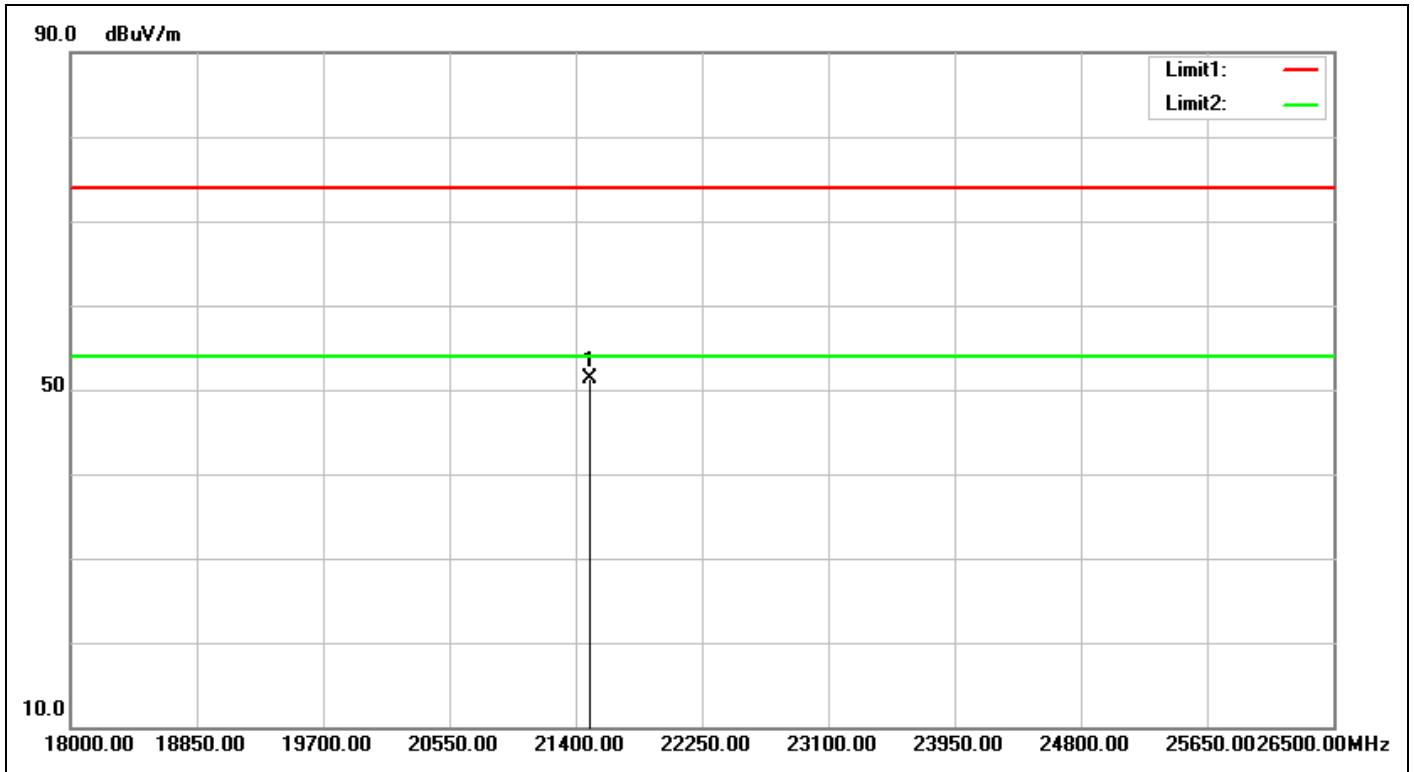
Spurious Emissions, RX Mode, 18-26G



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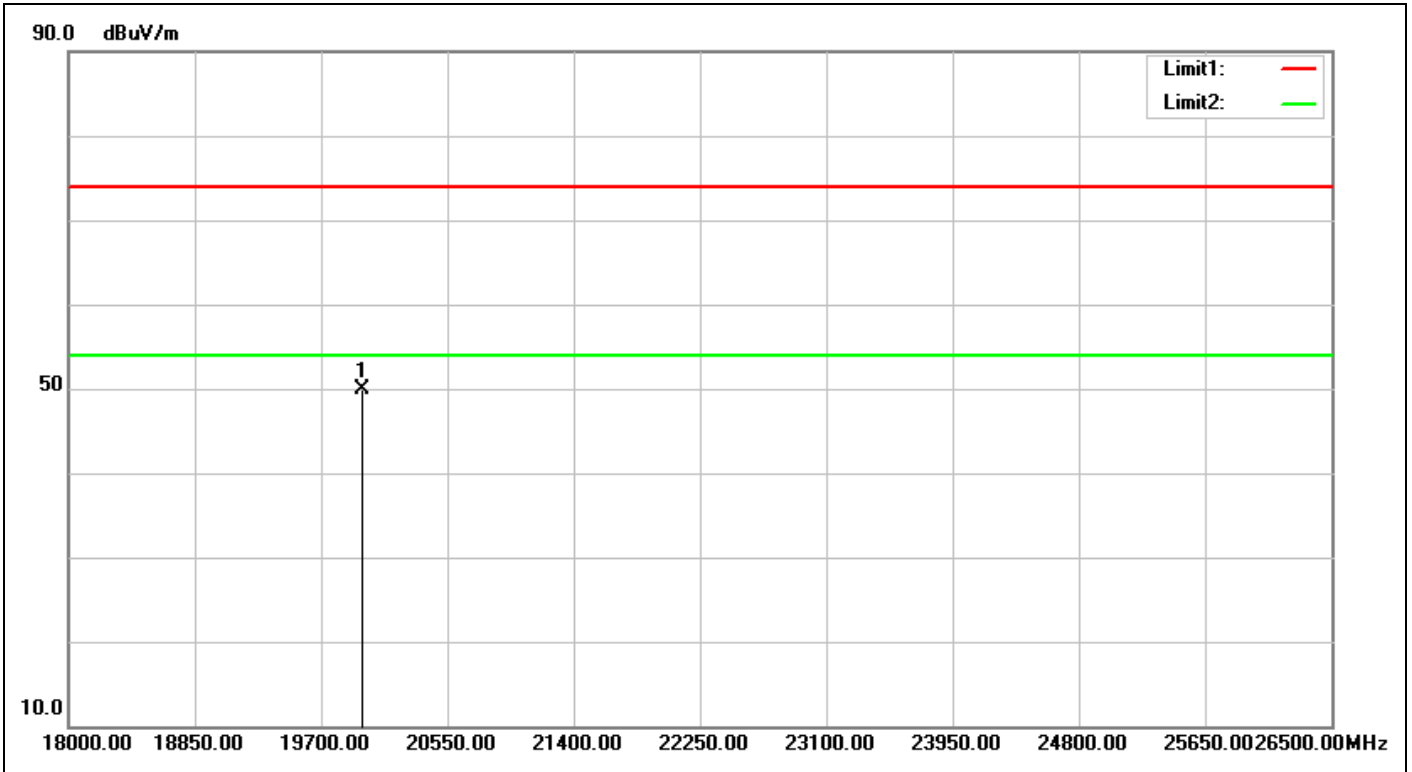
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Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114061029	Test Distance:	3m
Test Standard:	Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/3 22:52:21
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21493.500	32.63	18.75	51.38	74.00	-22.62	peak	100	360	



Service No.:	114061029	Test Distance:	3m
Test Standard:	Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/3 22:52:31
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19972.000	31.46	18.40	49.86	74.00	-24.14	peak	100	166	

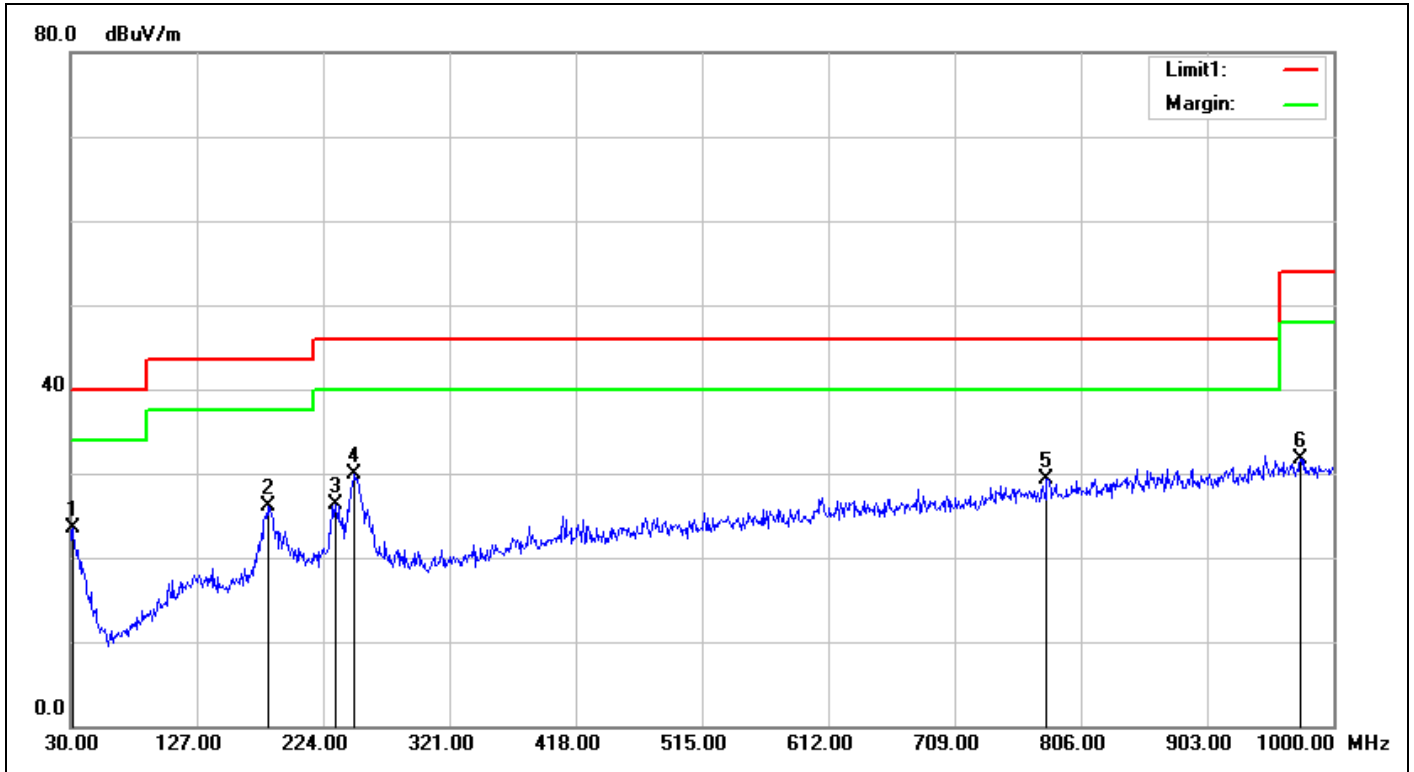
Spurious Emissions, RX Mode, 30M-1G



TUV Taiwan

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

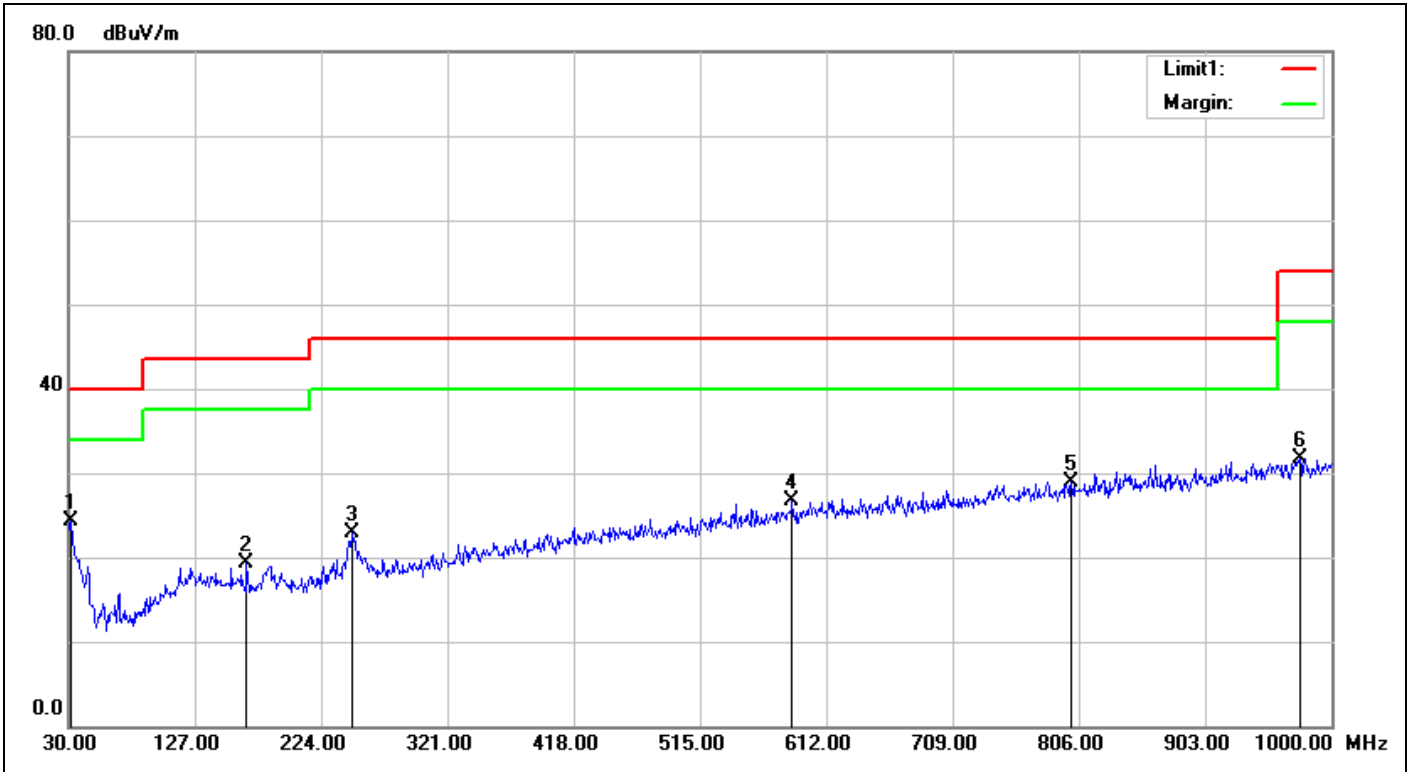
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114061029	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/3 23:17:11
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	31.9400	-1.18	24.64	23.46	40.00	-16.54	QP	100	257	
2	181.3199	-9.62	35.68	26.06	43.50	-17.44	QP	100	105	
3	233.6999	-7.22	33.45	26.23	46.00	-19.77	QP	100	343	
4	248.2500	-5.90	35.83	29.93	46.00	-16.07	QP	100	146	
5	779.8099	2.63	26.63	29.26	46.00	-16.74	QP	100	241	
6	974.7799	5.60	26.17	31.77	54.00	-22.23	QP	100	55	

Spurious Emissions, Mains, 150kHz - 30MHz



Service No.:	114061029	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/3 23:18:14
Applicant:	Elgato Systems LLC	Test Rating:	DC 3V
Product:	Eve Degree	Temp.(°C)/Hum.(%):	18.6(°C)/60%
Model No.:	20EAF9901	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	31.9400	-1.18	25.41	24.23	40.00	-15.77	QP	100	128	
2	166.7700	-8.66	27.91	19.25	43.50	-24.25	QP	100	98	
3	248.2500	-5.90	28.72	22.82	46.00	-23.18	QP	100	302	
4	585.8100	-0.22	26.86	26.64	46.00	-19.36	QP	100	3	
5	800.1800	2.82	26.15	28.97	46.00	-17.03	QP	100	31	
6	975.7500	5.62	26.15	31.77	54.00	-22.23	QP	100	95	