

Test Report No.10045882 002

Appendix D: Radiated and Mains Spurious Emission Data

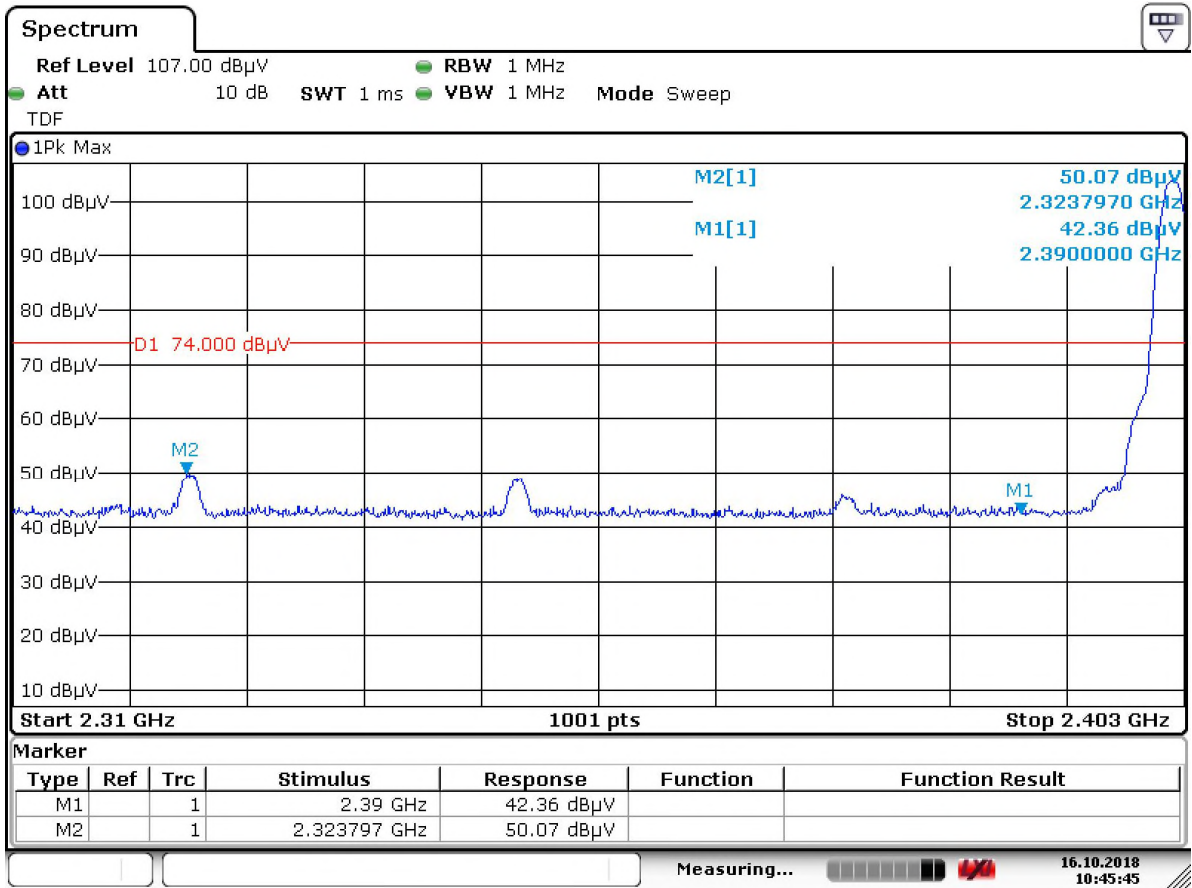
(File: 10045882 002 AppendixD)

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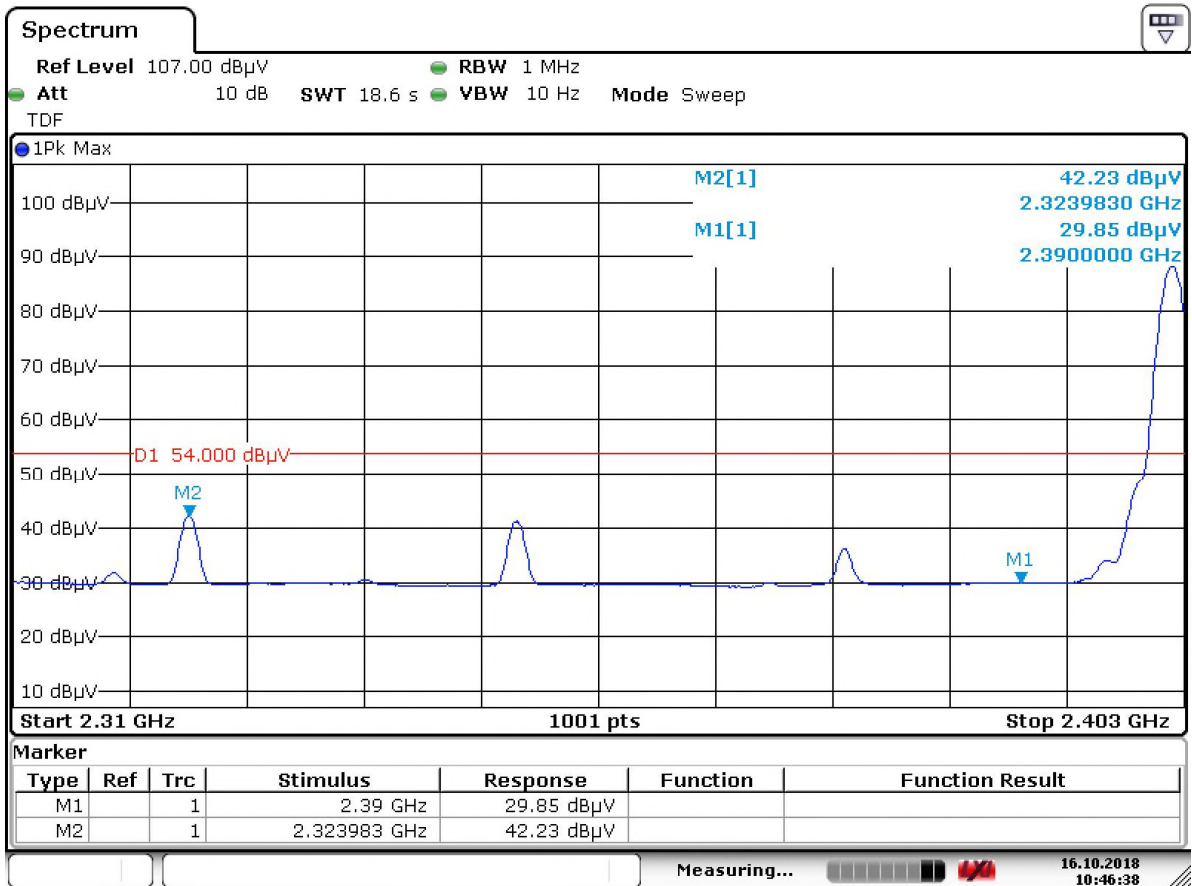
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Spurious Emissions, Band Edges, 2.35-2.5G

1DH5 Low Channel (Horizontal)

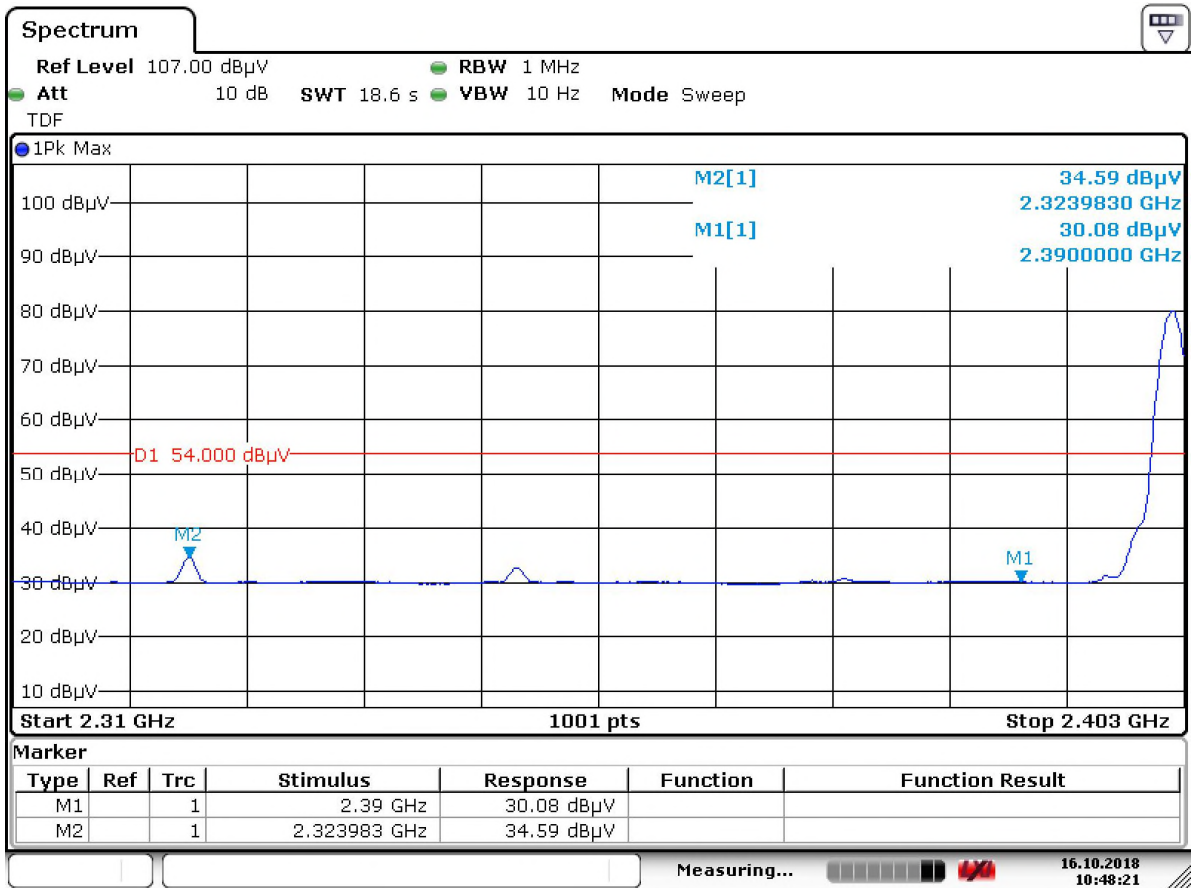


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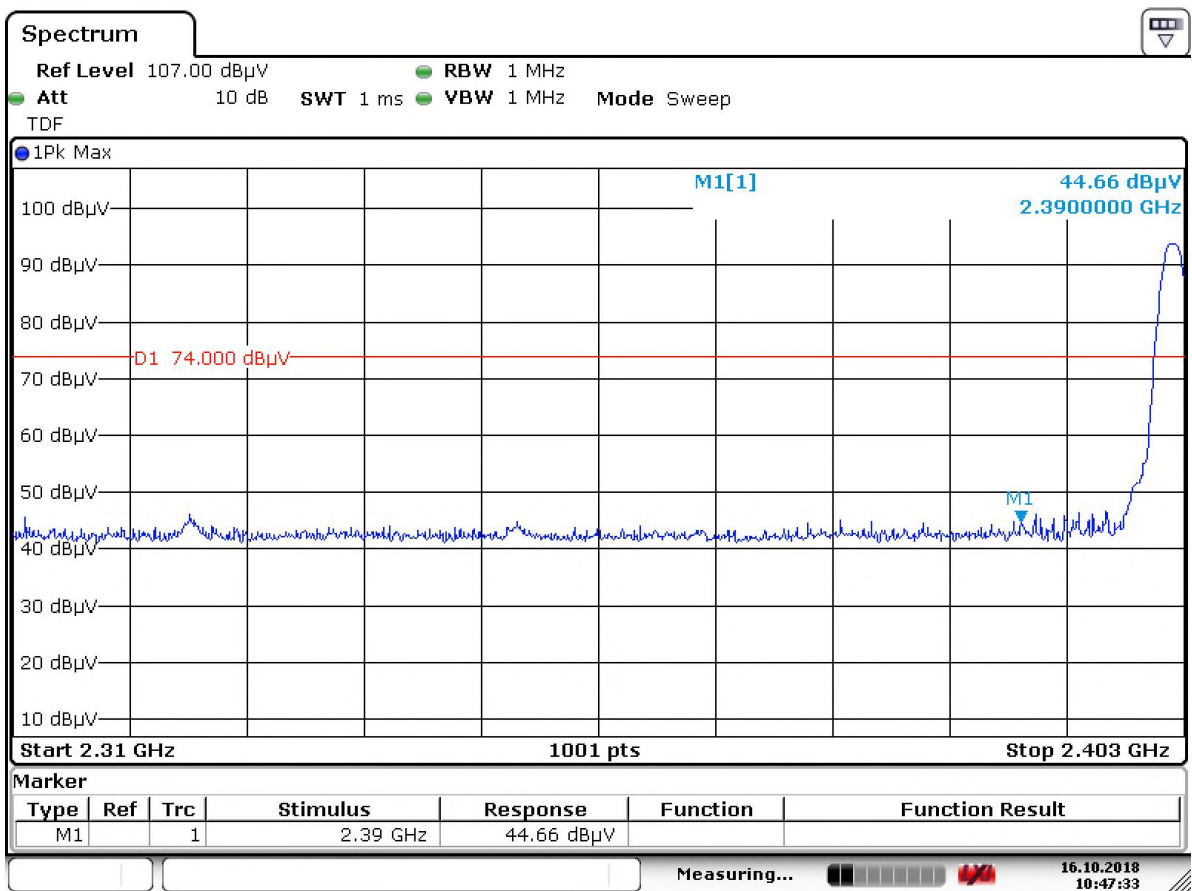


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1DH5 Low Channel (Vertical)

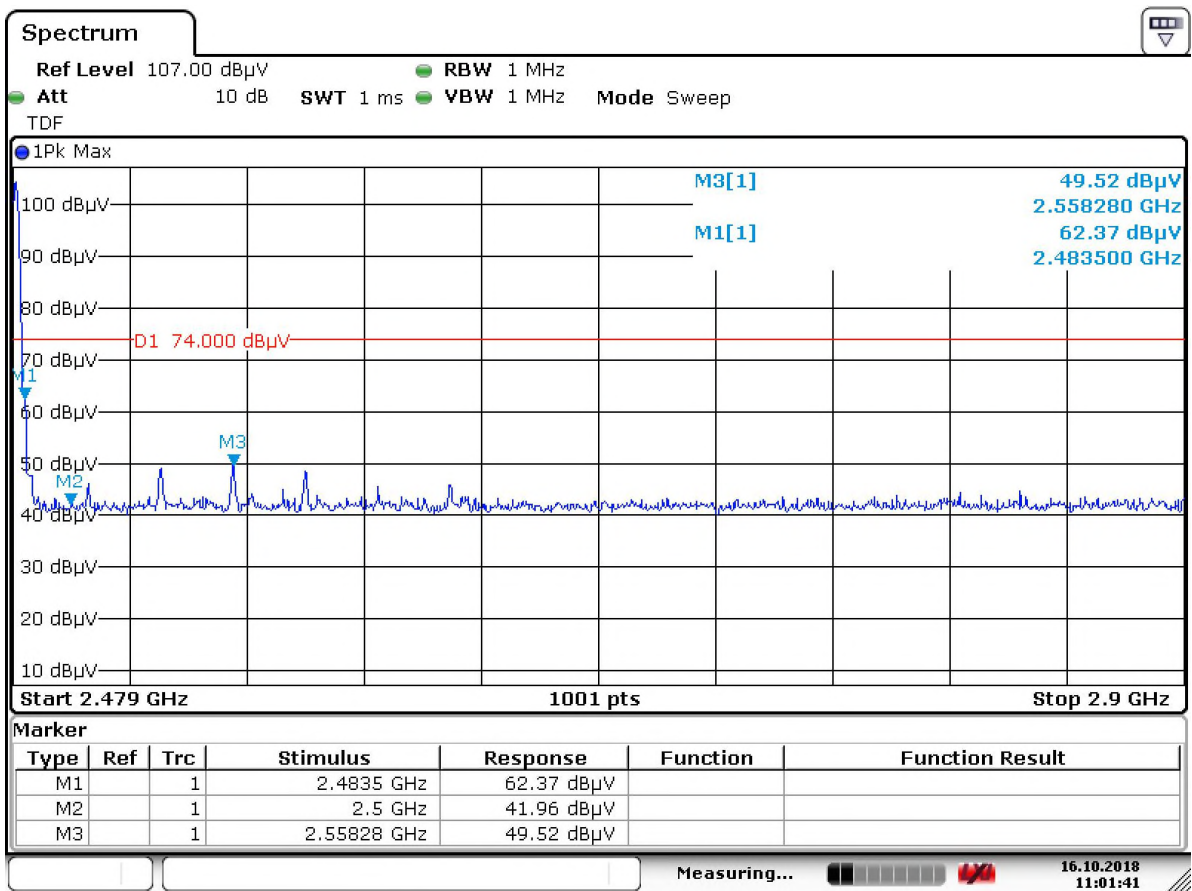


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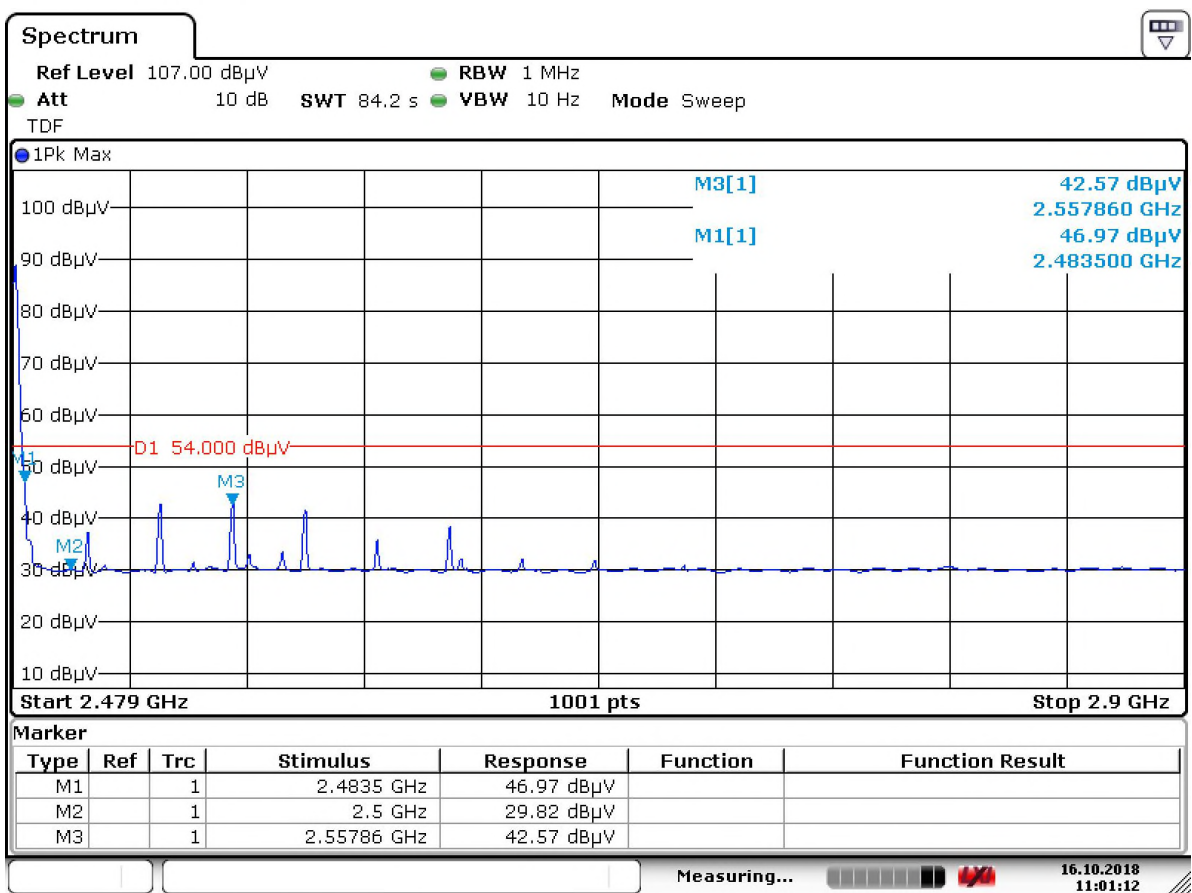


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1DH5 High Channel (Horizontal)

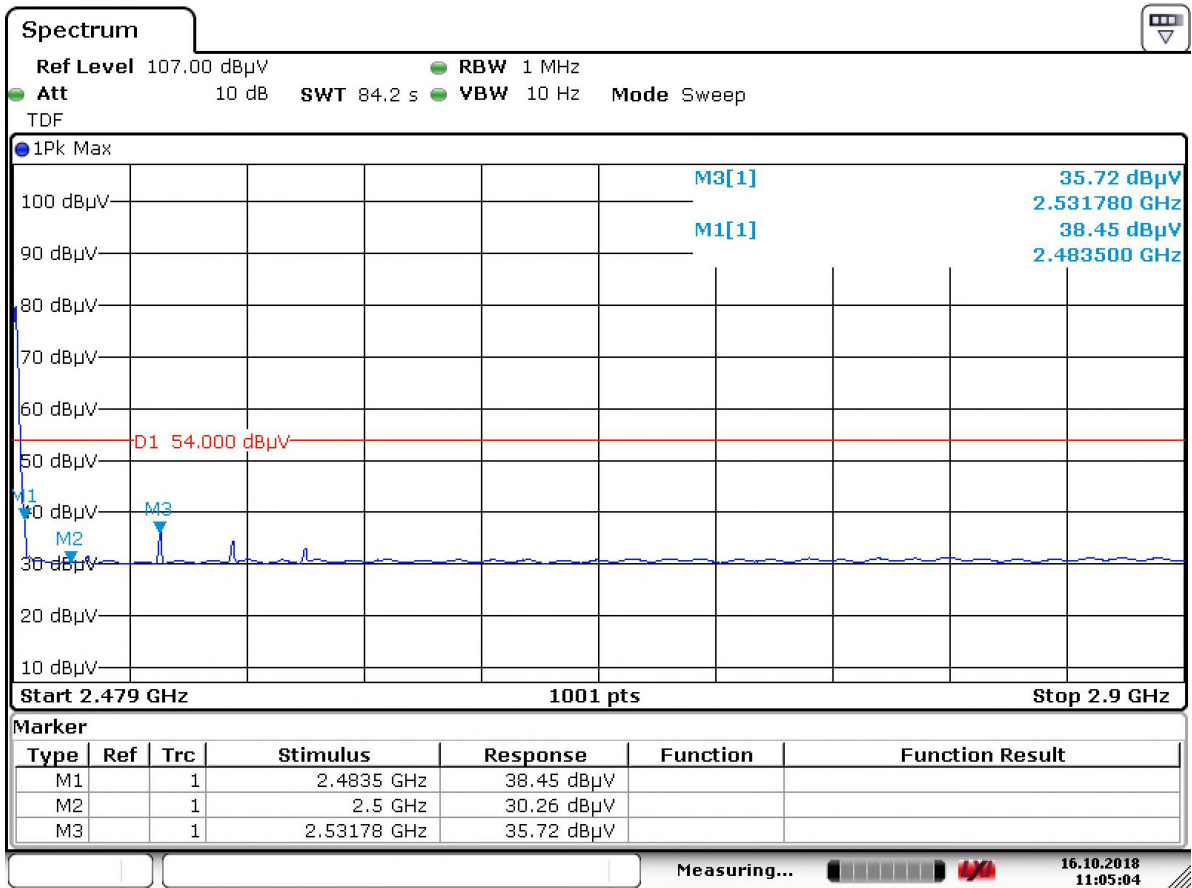


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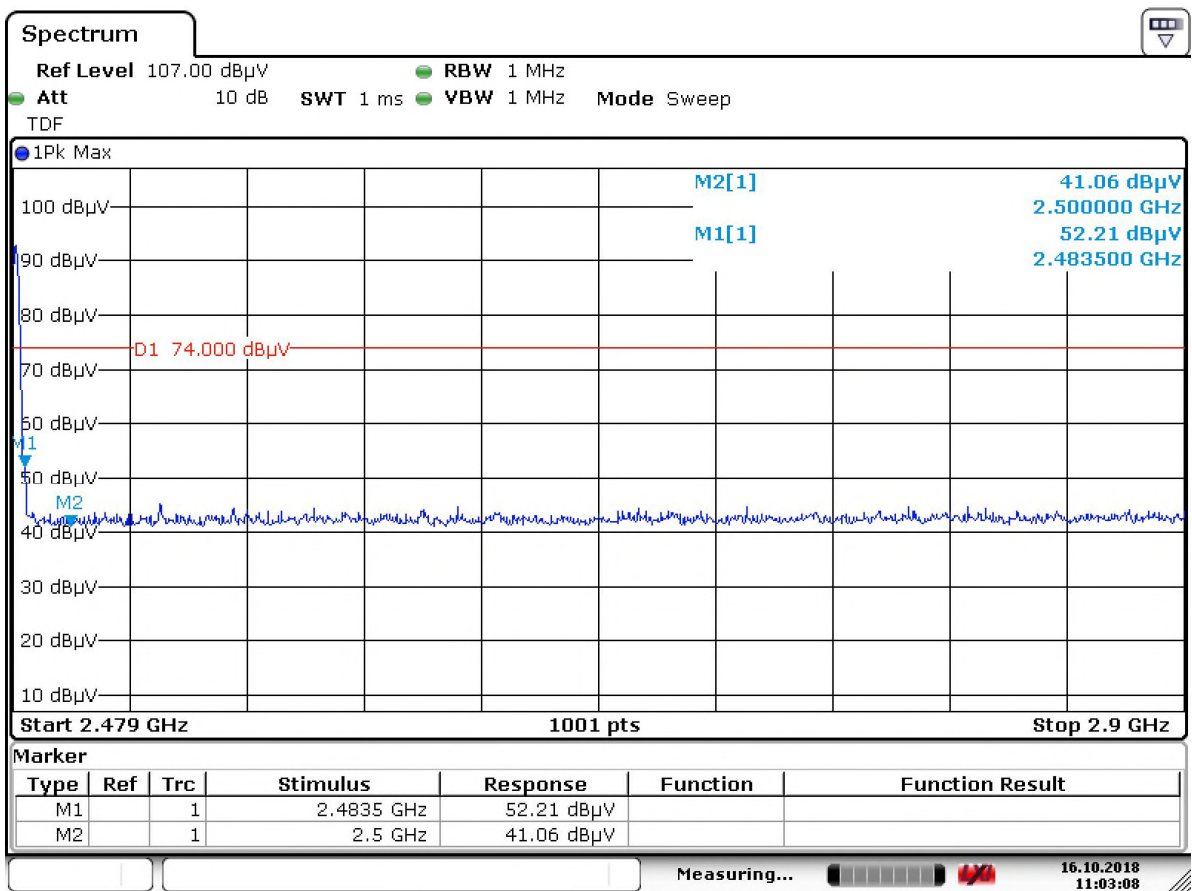


Date: 16.OCT.2018 11:01:13

1DH5 High Channel (Vertical)

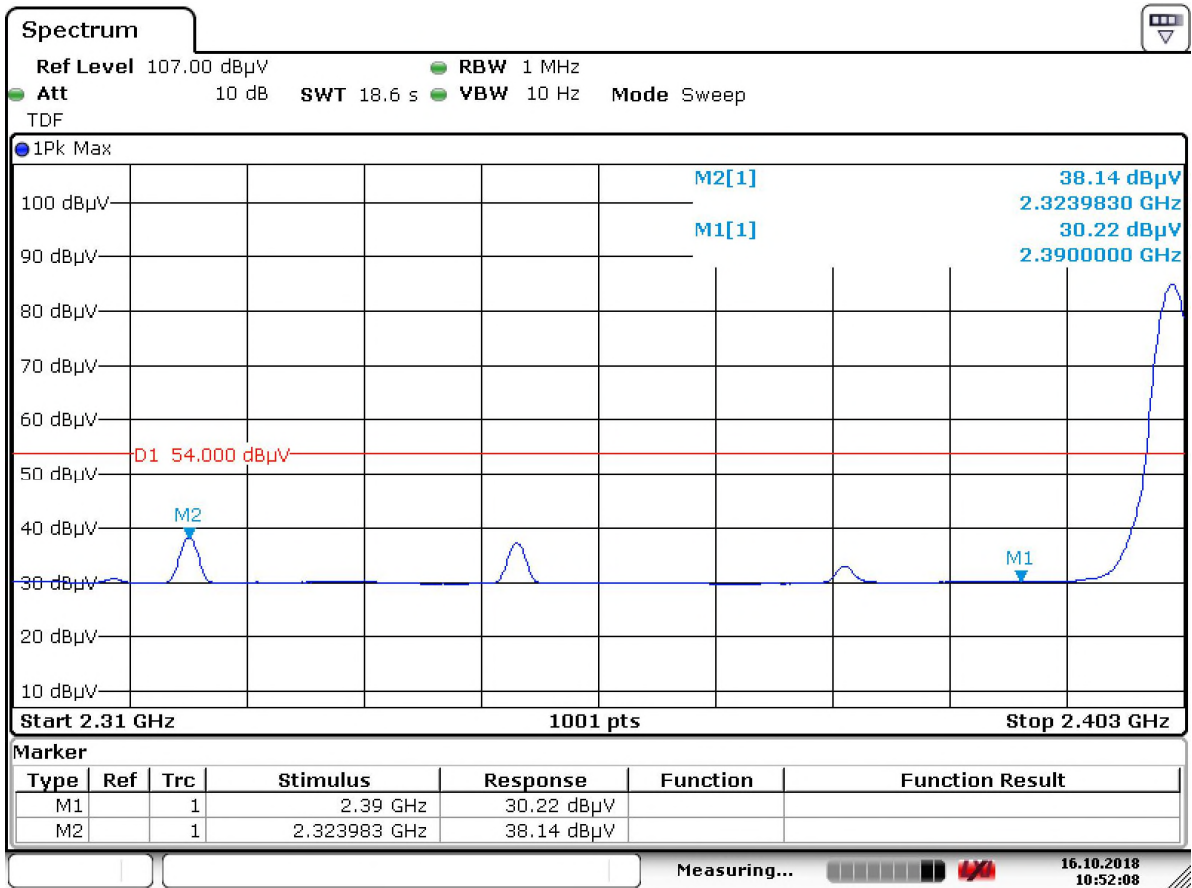


Date: 16.OCT.2018 11:05:05

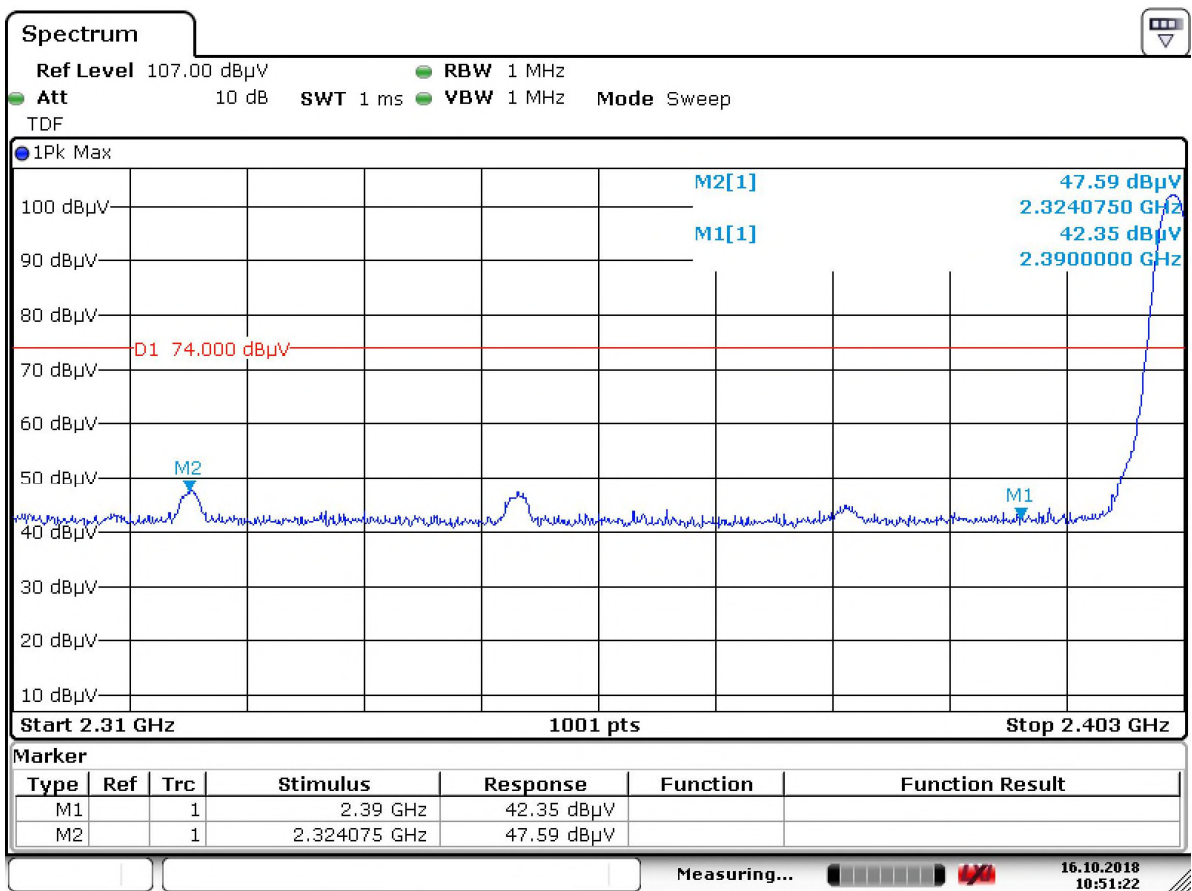


Date: 16.OCT.2018 11:03:09

3DH5 Low Channel (Horizontal)

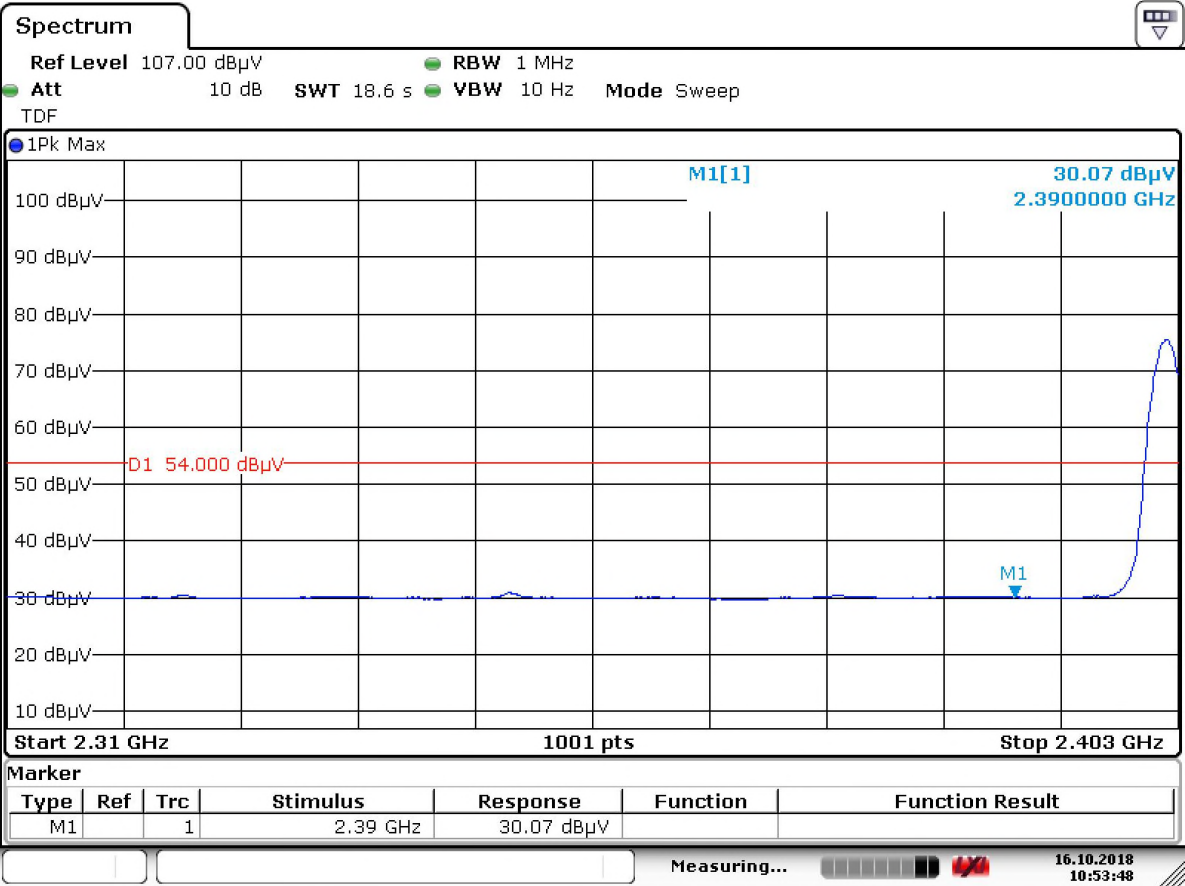


Date: 16.OCT.2018 10:52:09

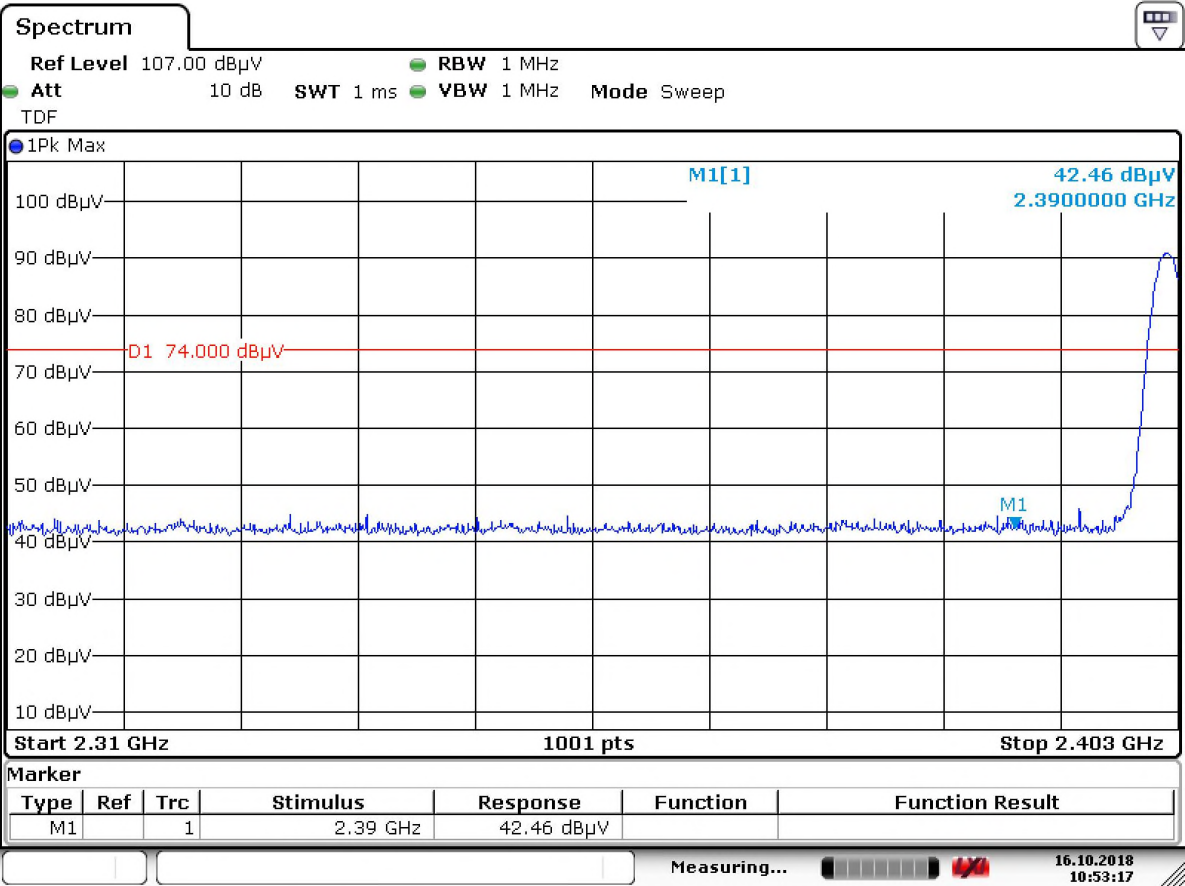


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3DH5 Low Channel (Vertical)

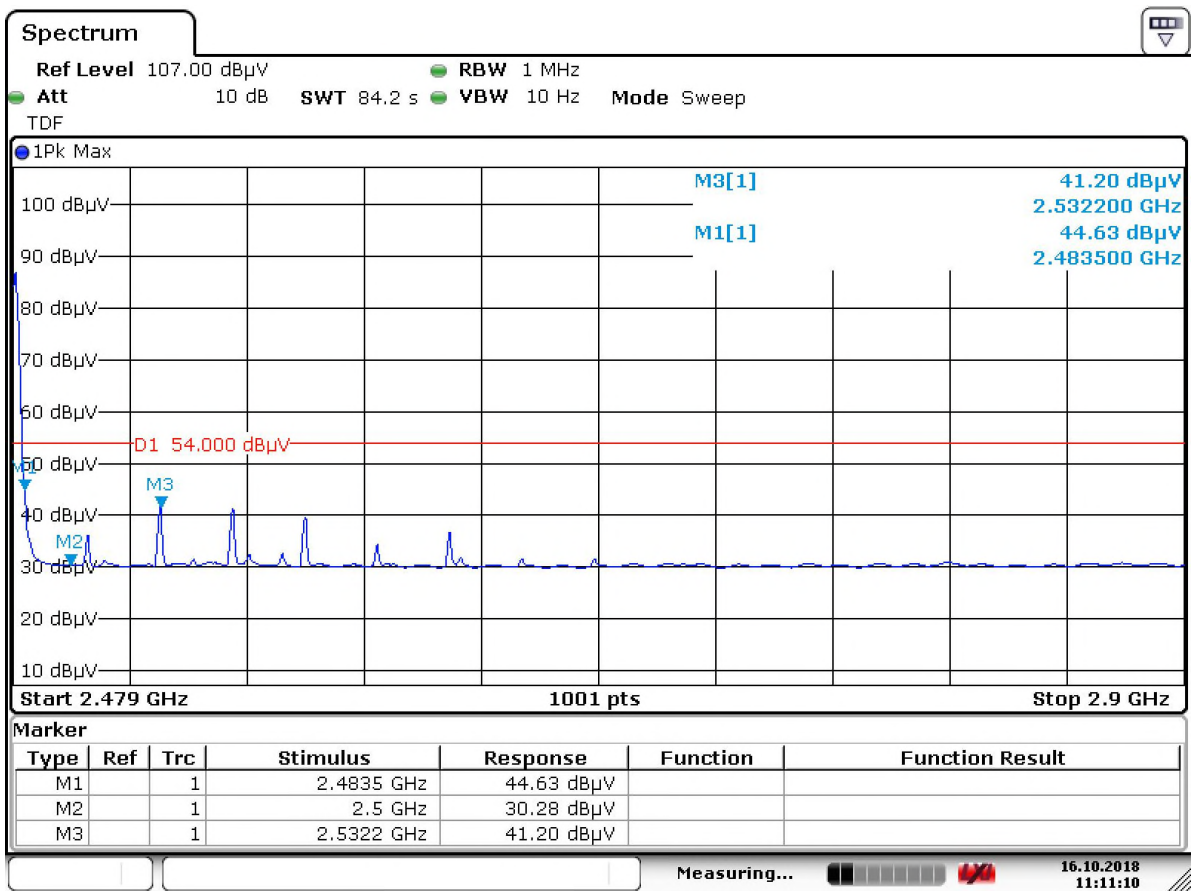


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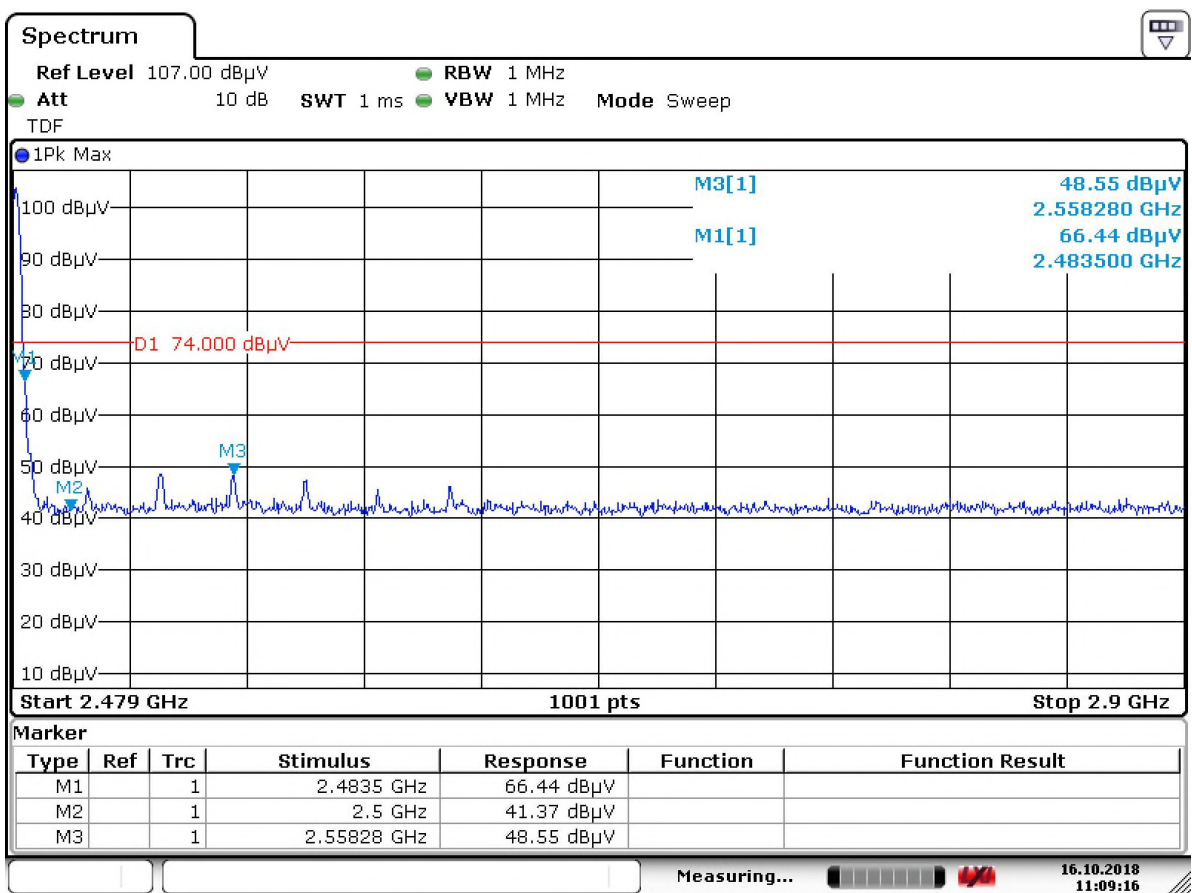


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3DH5 High Channel (Horizontal)

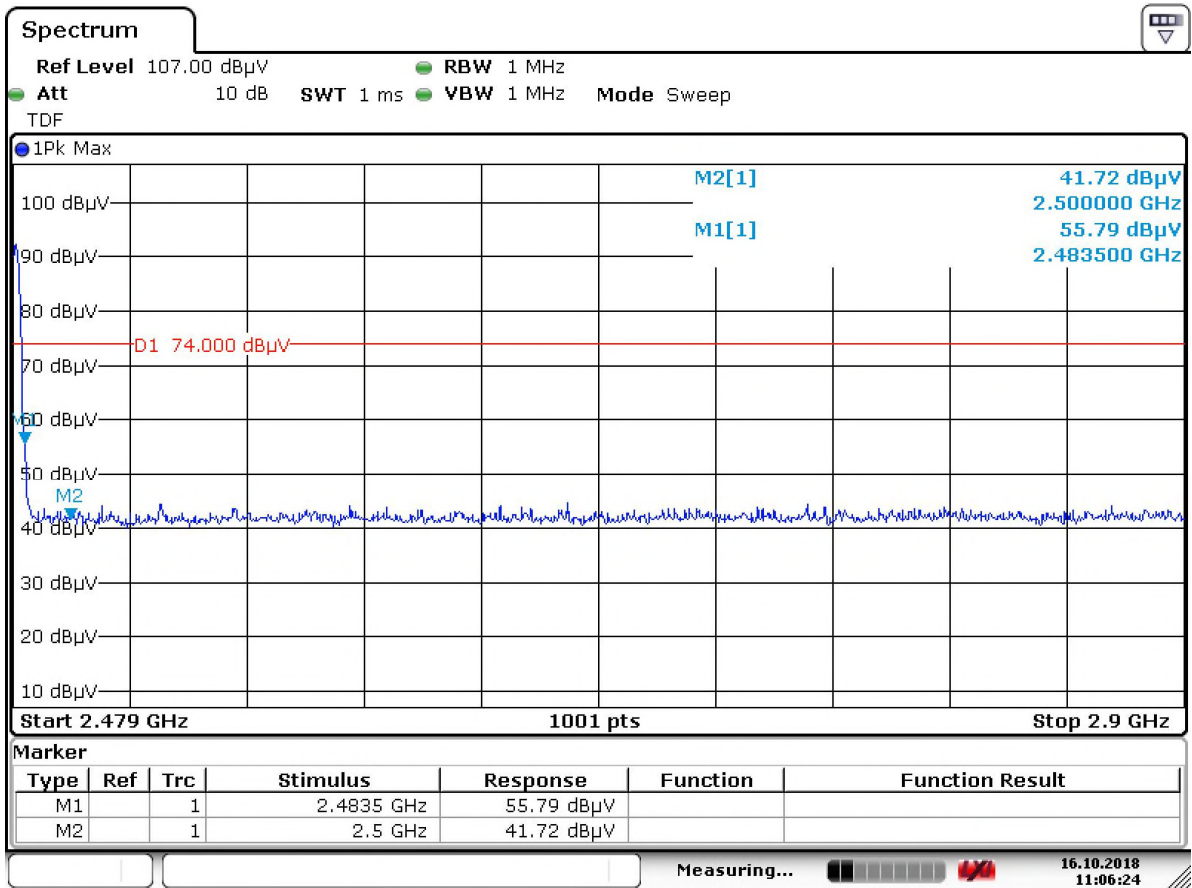


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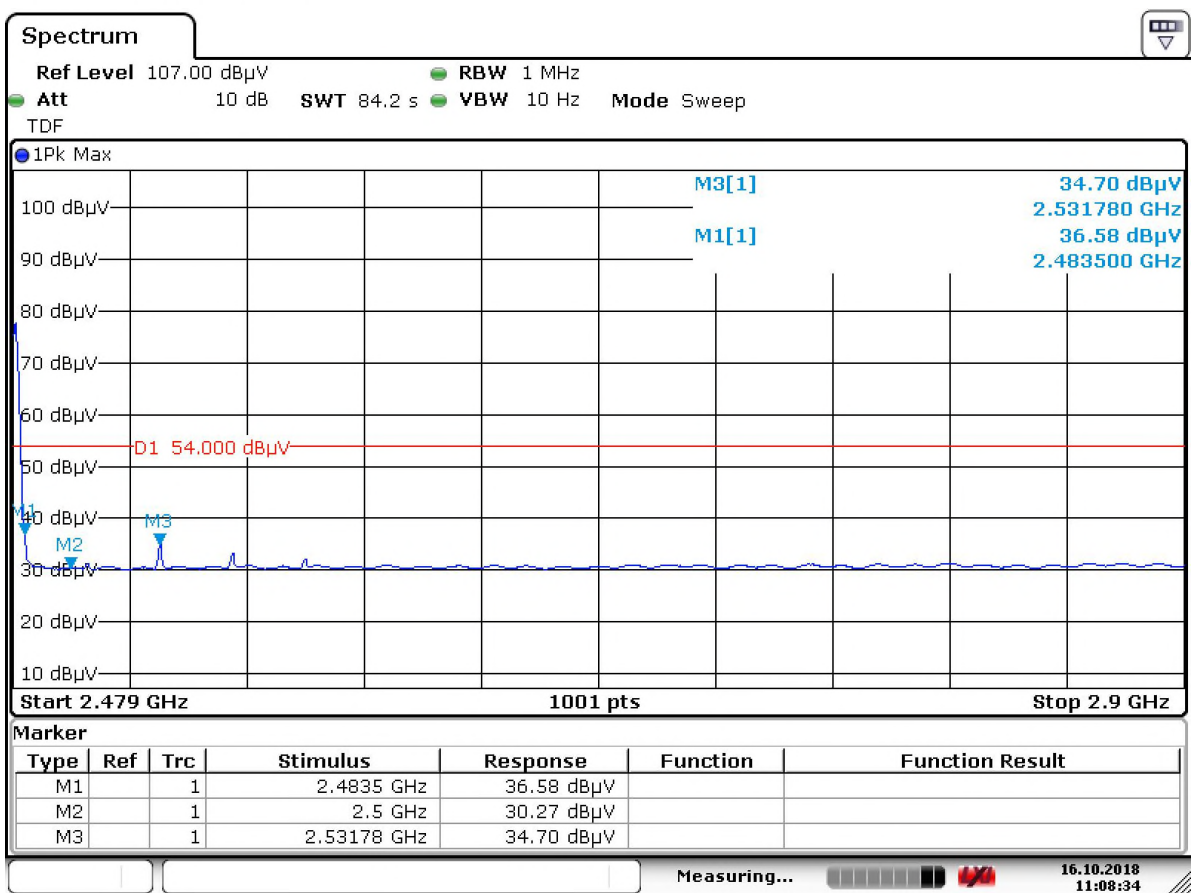


Date: 16.OCT.2018 11:09:16

3DH5 High Channel (Vertical)



Date: 16.OCT.2018 11:06:24



Date: 16.OCT.2018 11:08:34

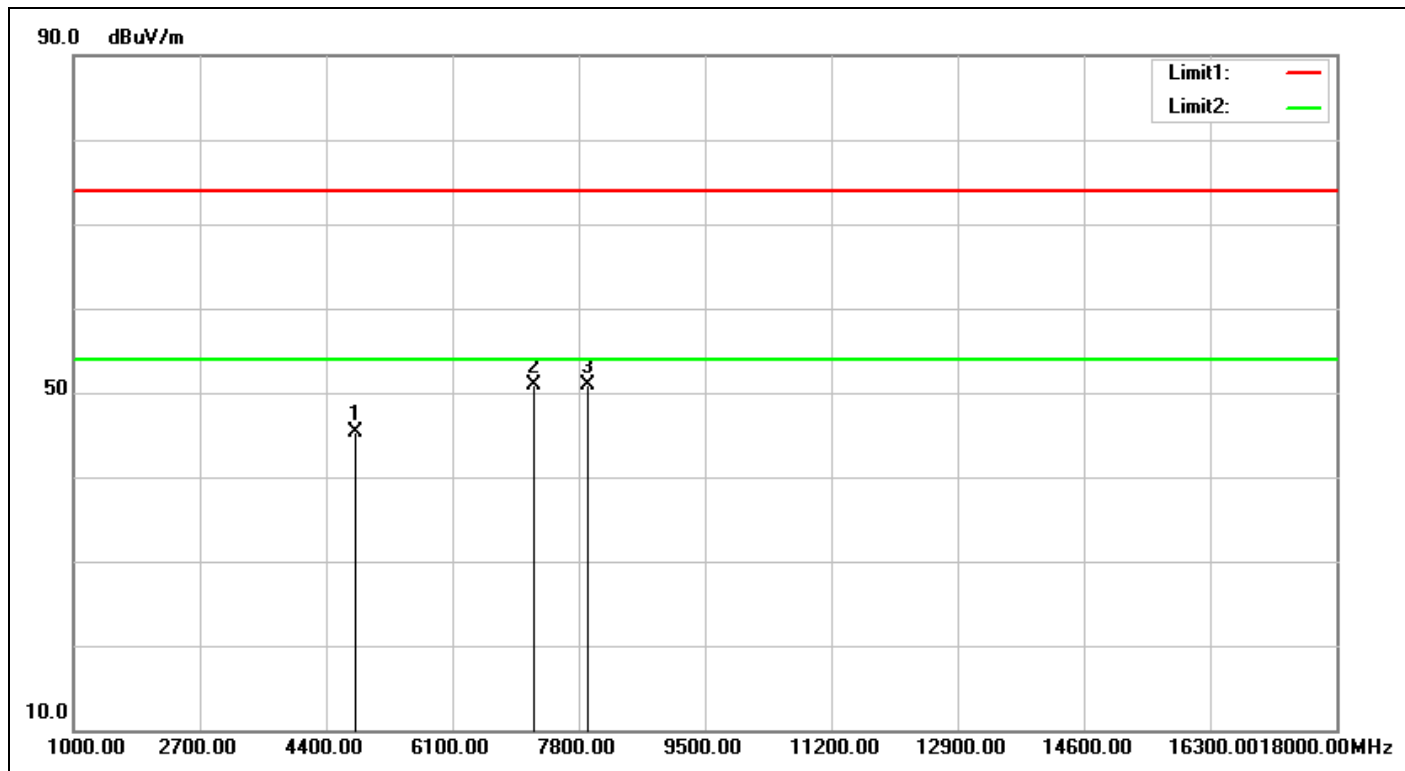
Spurious Emissions, TX Mode, 1-18G



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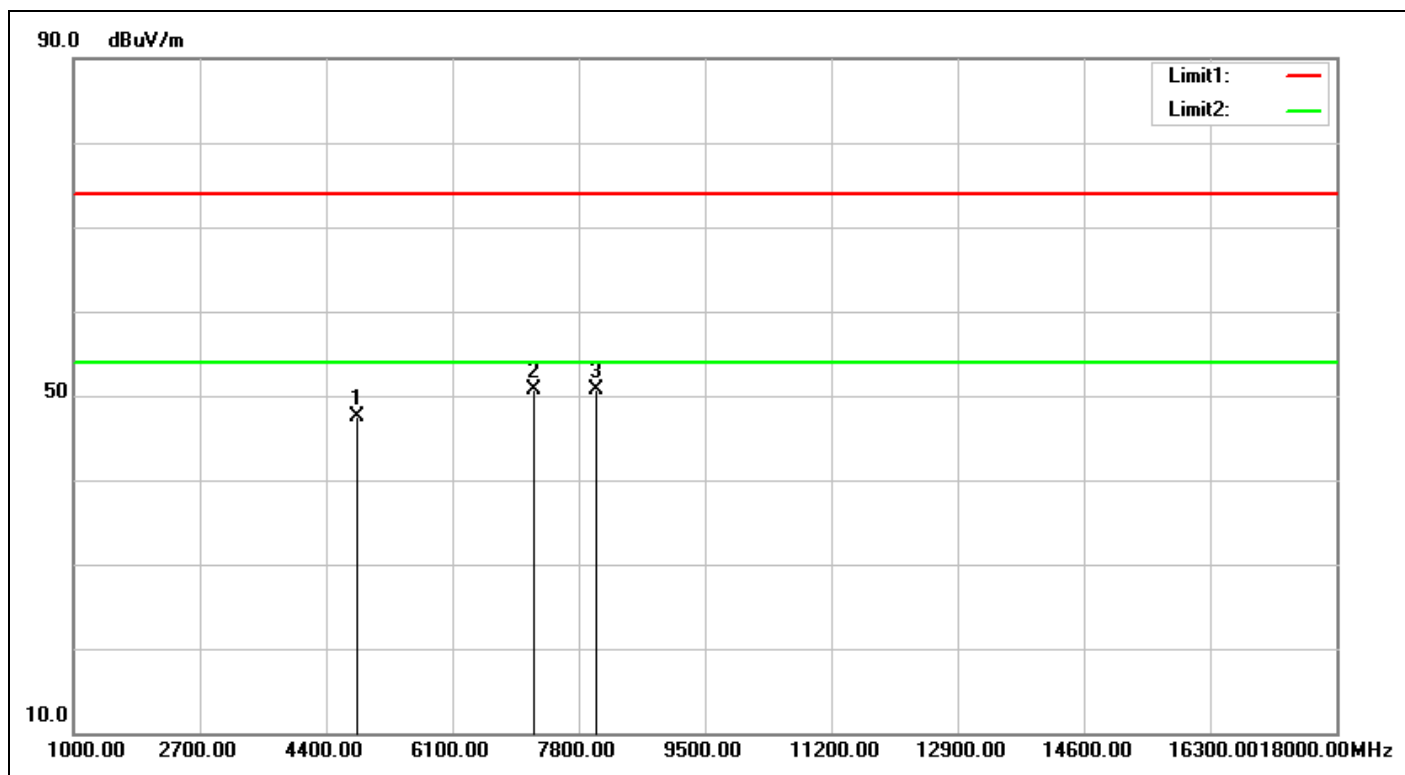
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



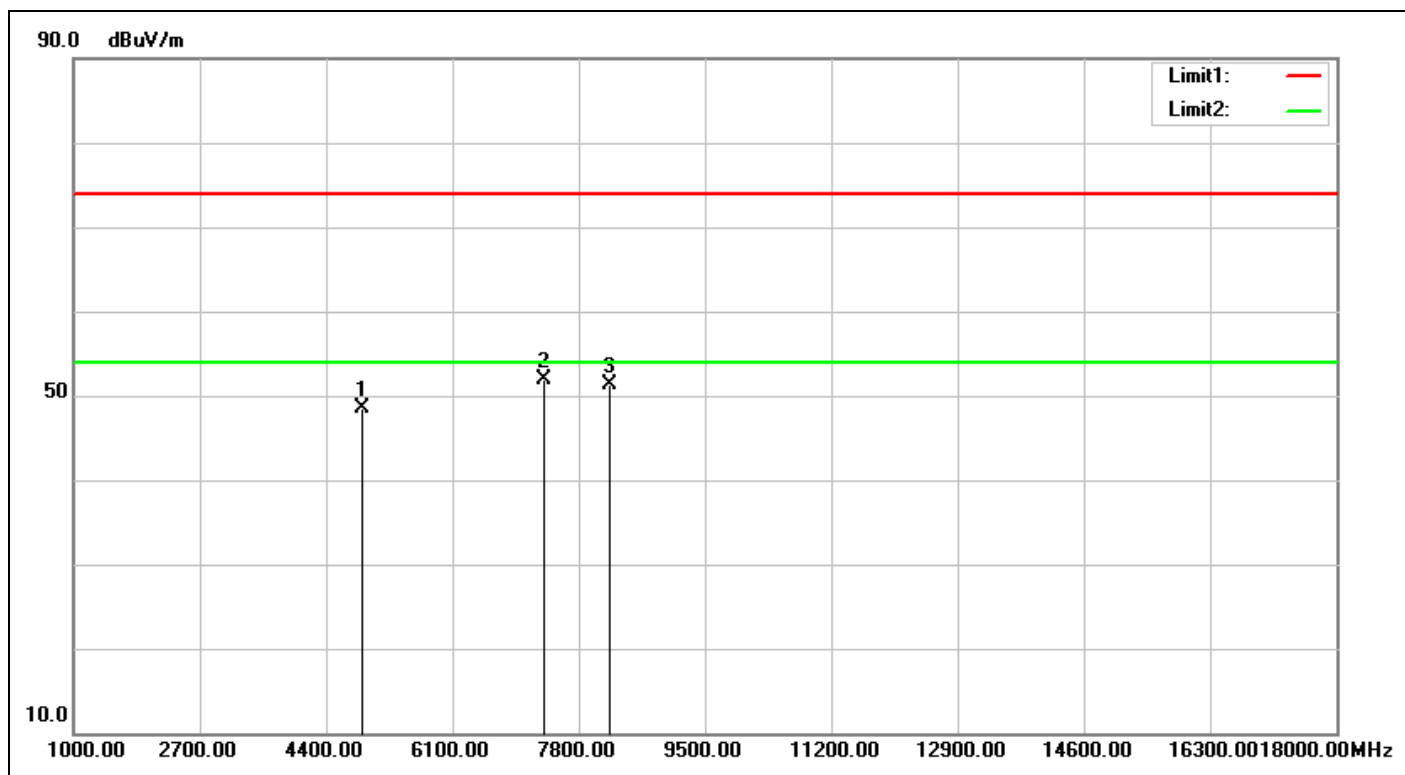
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 11:05:41
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%)	22(°C)/65%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2402-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	-2.65	48.04	45.39	74.00	-28.61	peak		0	
2	7206.000	5.26	45.71	50.97	74.00	-23.03	peak		0	
3	7919.000	5.79	45.09	50.88	74.00	-23.12	peak	100	158	



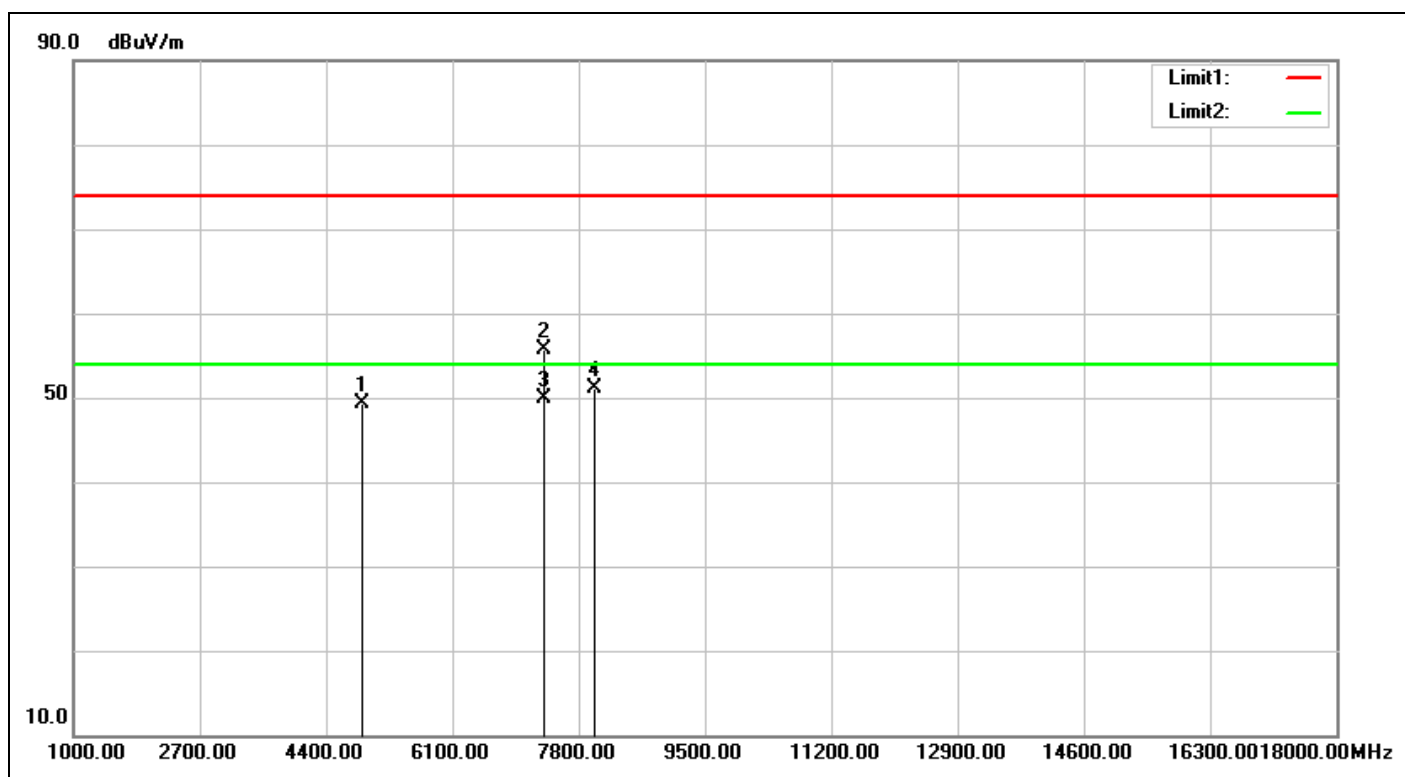
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 11:06:34
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%)	22(°C)/65%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2402-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	-2.65	50.21	47.56	74.00	-26.44	peak			
2	7206.000	5.26	45.37	50.63	74.00	-23.37	peak			
3	8038.000	5.83	44.89	50.72	74.00	-23.28	peak	100	104	



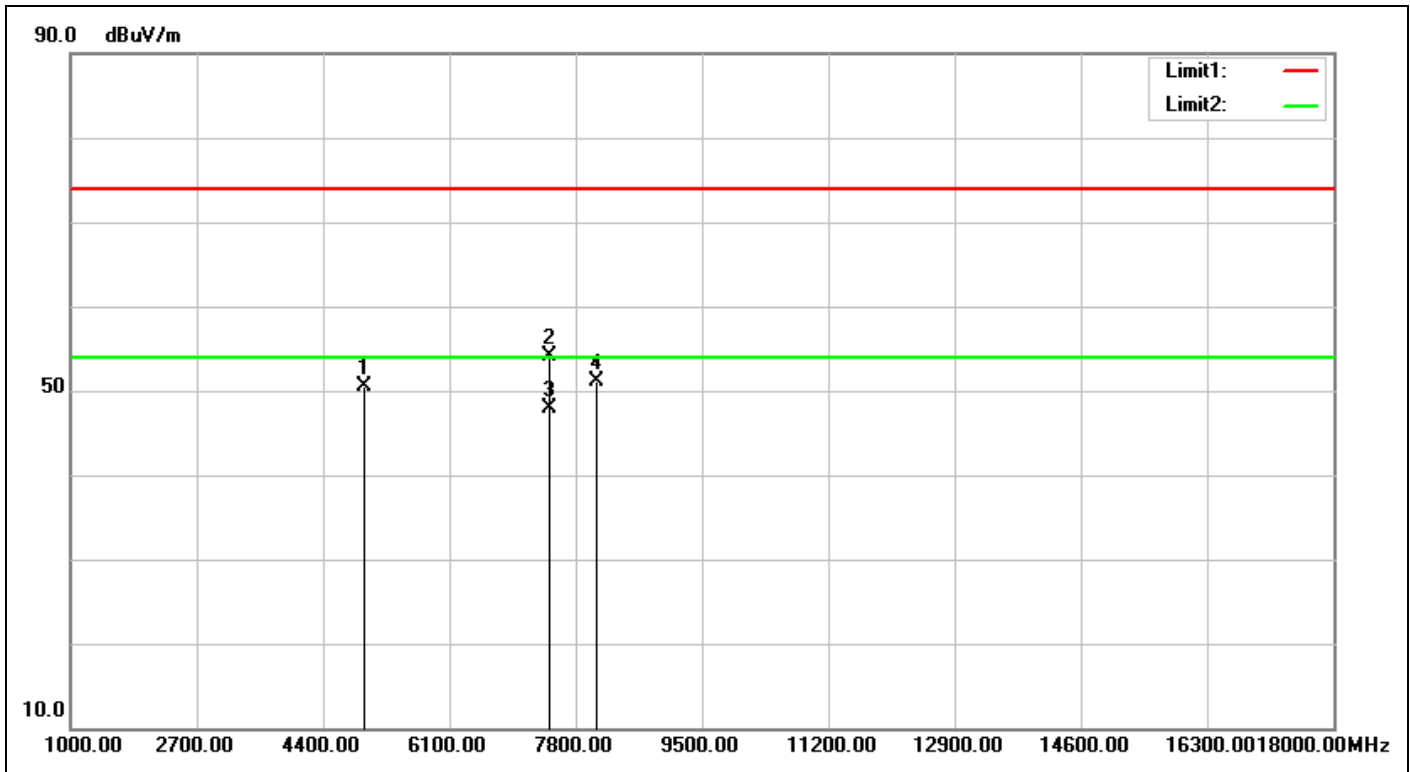
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 11:09:41
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	22(°C)/65%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.44	50.94	48.50	74.00	-25.50	peak	100	225	
2	7323.000	5.52	46.30	51.82	74.00	-22.18	peak			
3	8225.000	6.11	45.28	51.39	74.00	-22.61	peak	100	174	



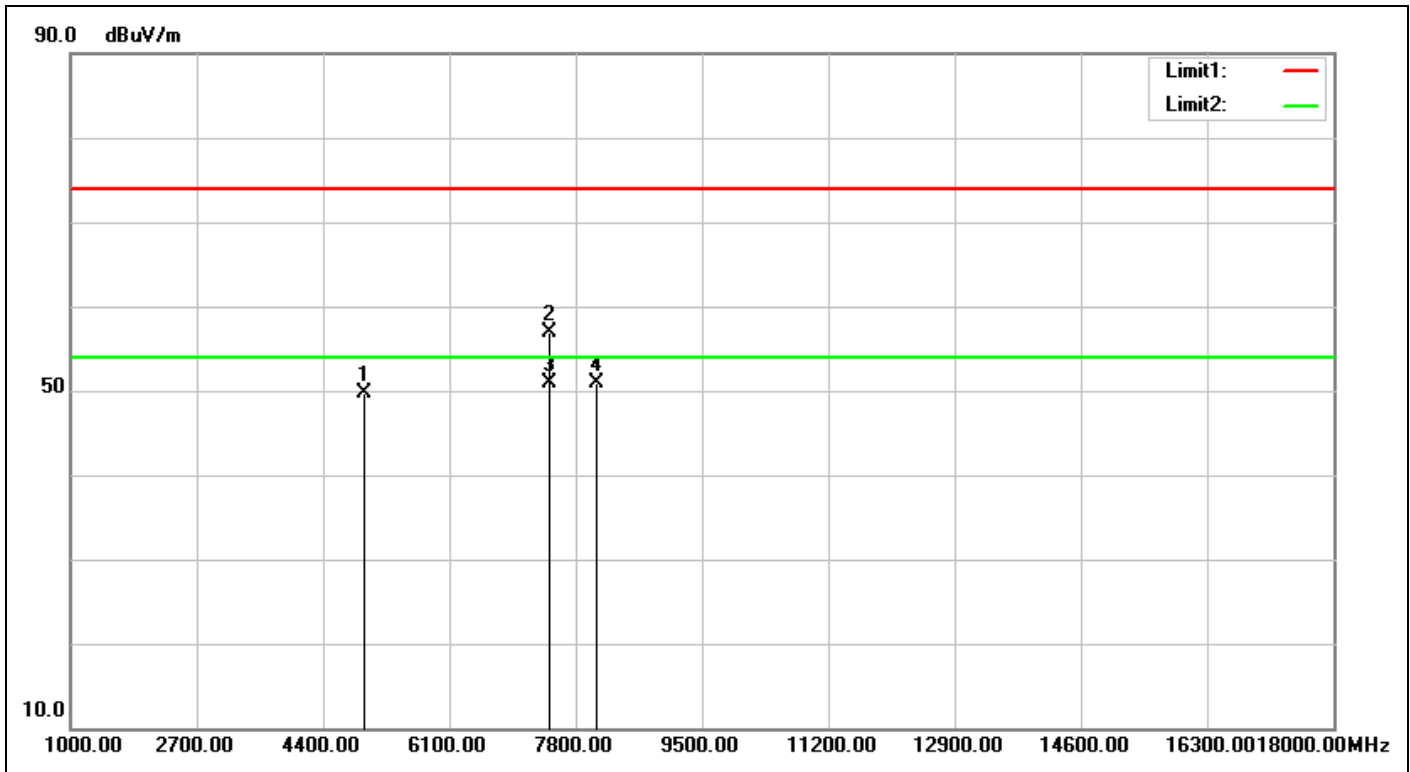
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Test item:	Radiation Emission	Test Time:	2018/10/16 11:10:34
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%)	22(°C)/65%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.44	51.71	49.27	74.00	-24.73	peak	100	104	
2	7323.000	5.52	50.19	55.71	74.00	-18.29	peak	100	309	
3	7323.000	5.52	44.31	49.83	54.00	-4.17	AVG	100	309	
4	8021.000	5.80	45.27	51.07	74.00	-22.93	peak	100	220	



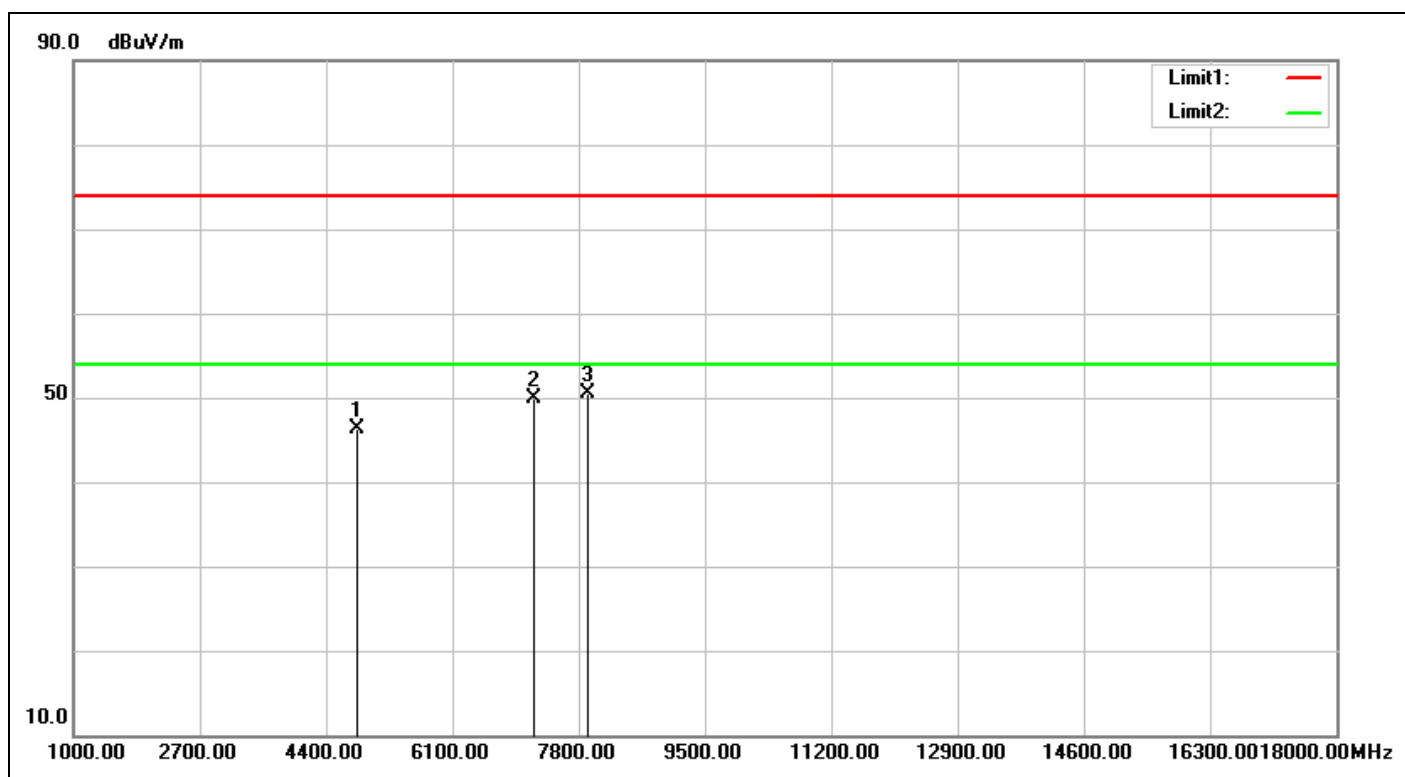
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 11:15:13
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	22(°C)/65%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2480-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	-2.22	52.66	50.44	74.00	-23.56	peak	100	200	
2	7440.000	5.79	48.25	54.04	74.00	-19.96	peak	100	39	
3	7440.000	5.79	42.20	47.99	54.00	-6.01	AVG	100	39	
4	8072.000	5.87	45.29	51.16	74.00	-22.84	peak	100	145	



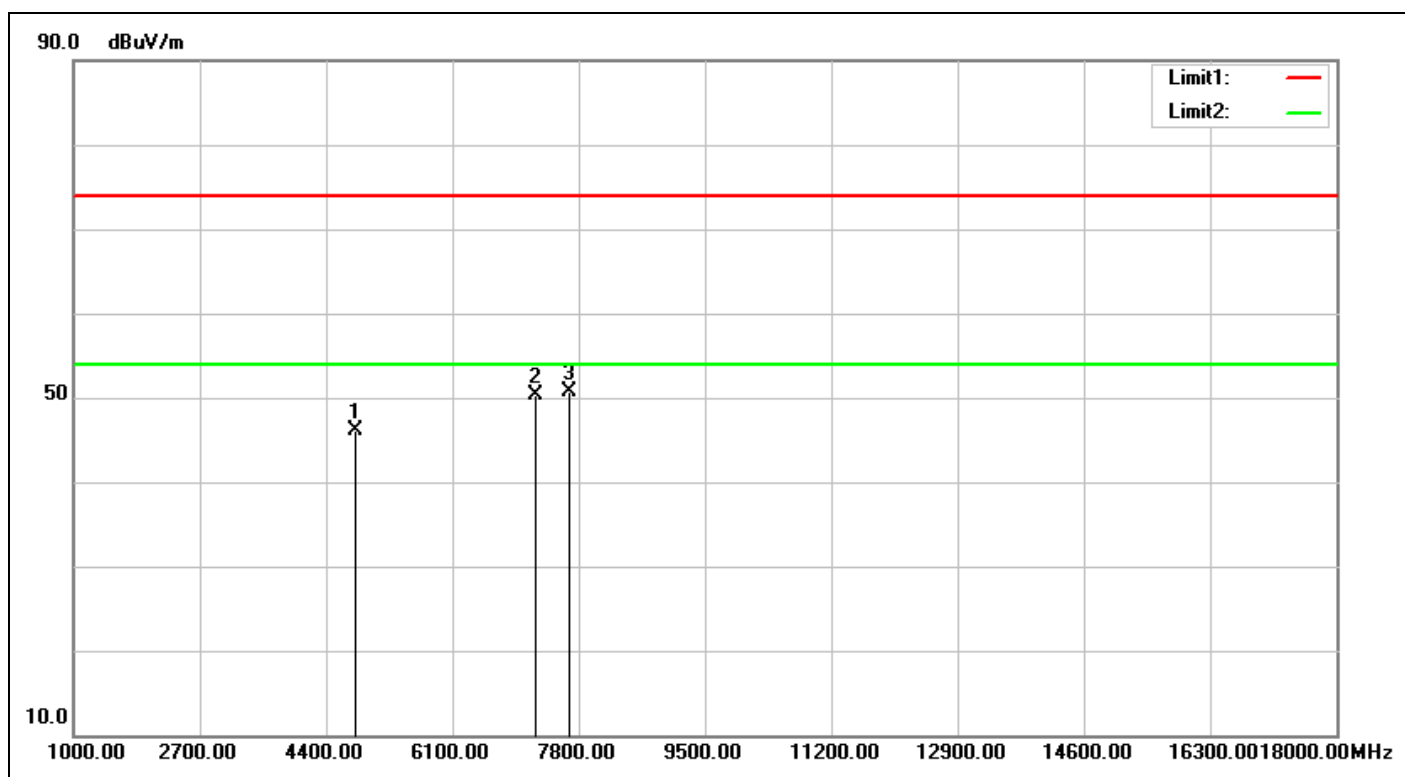
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 11:16:05
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%)	22(°C)/65%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2480-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	-2.22	52.00	49.78	74.00	-24.22	peak	100	72	
2	7440.000	5.79	51.19	56.98	74.00	-17.02	peak	100	314	
3	7440.000	5.79	45.16	50.95	54.00	-3.05	AVG	100	314	
4	8089.000	5.90	45.01	50.91	74.00	-23.09	peak	100	239	



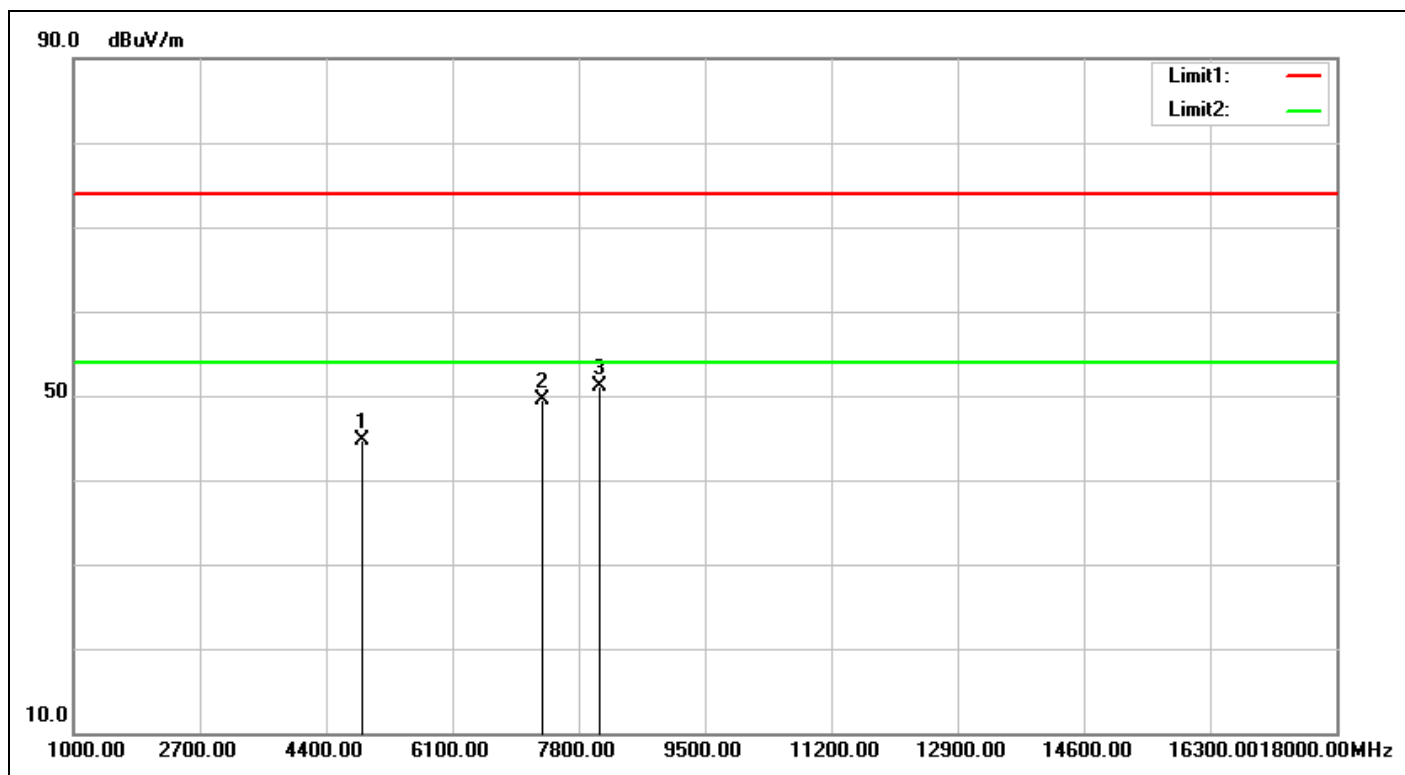
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 11:23:17
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%)	22(°C)/65%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	3DH5-2402-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	-2.65	49.04	46.39	74.00	-27.61	peak			
2	7206.000	5.26	44.59	49.85	74.00	-24.15	peak			
3	7919.000	5.79	44.64	50.43	74.00	-23.57	peak	100	225	



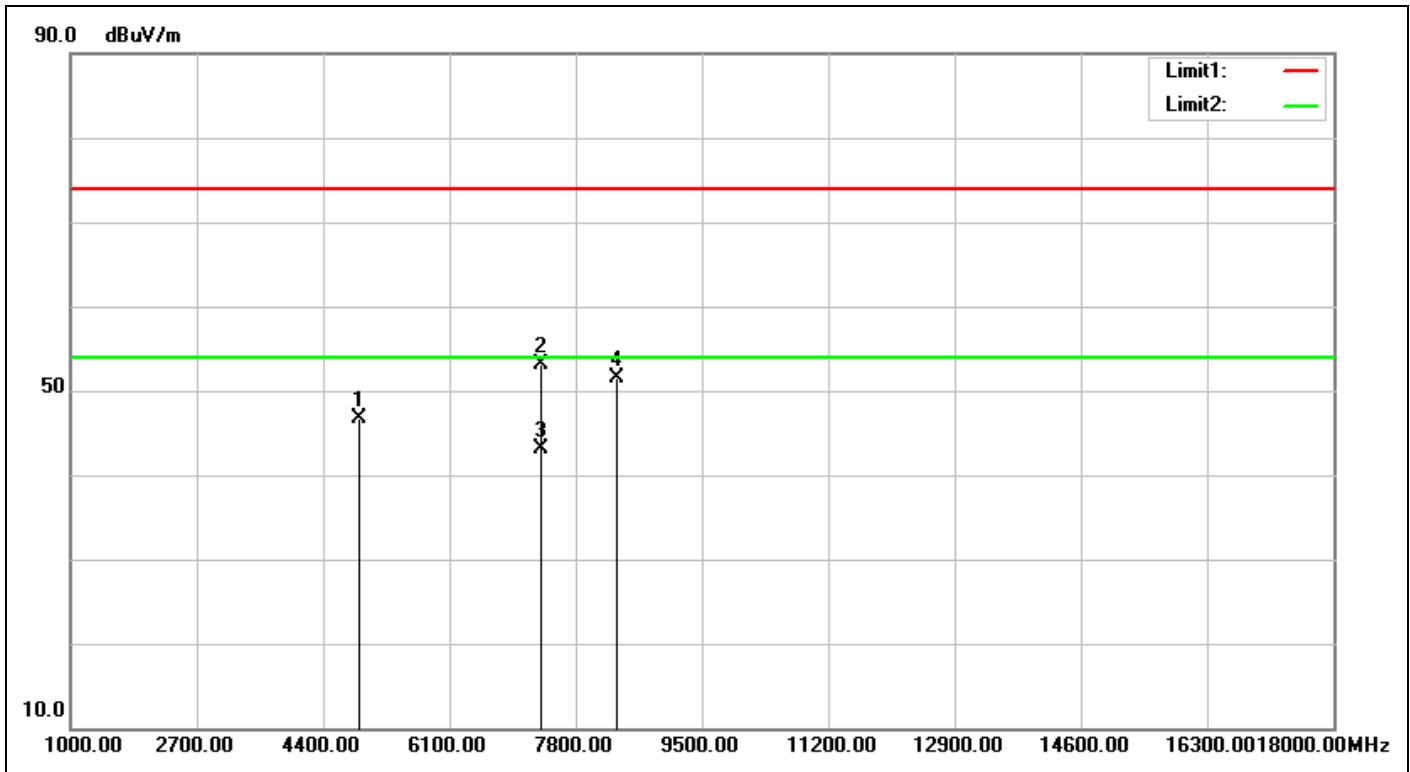
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 11:24:10
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	22(°C)/65%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	3DH5-2402-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	-2.65	48.75	46.10	74.00	-27.90	peak			
2	7206.000	5.26	45.00	50.26	74.00	-23.74	peak			
3	7681.000	5.88	44.89	50.77	74.00	-23.23	peak	100	1	



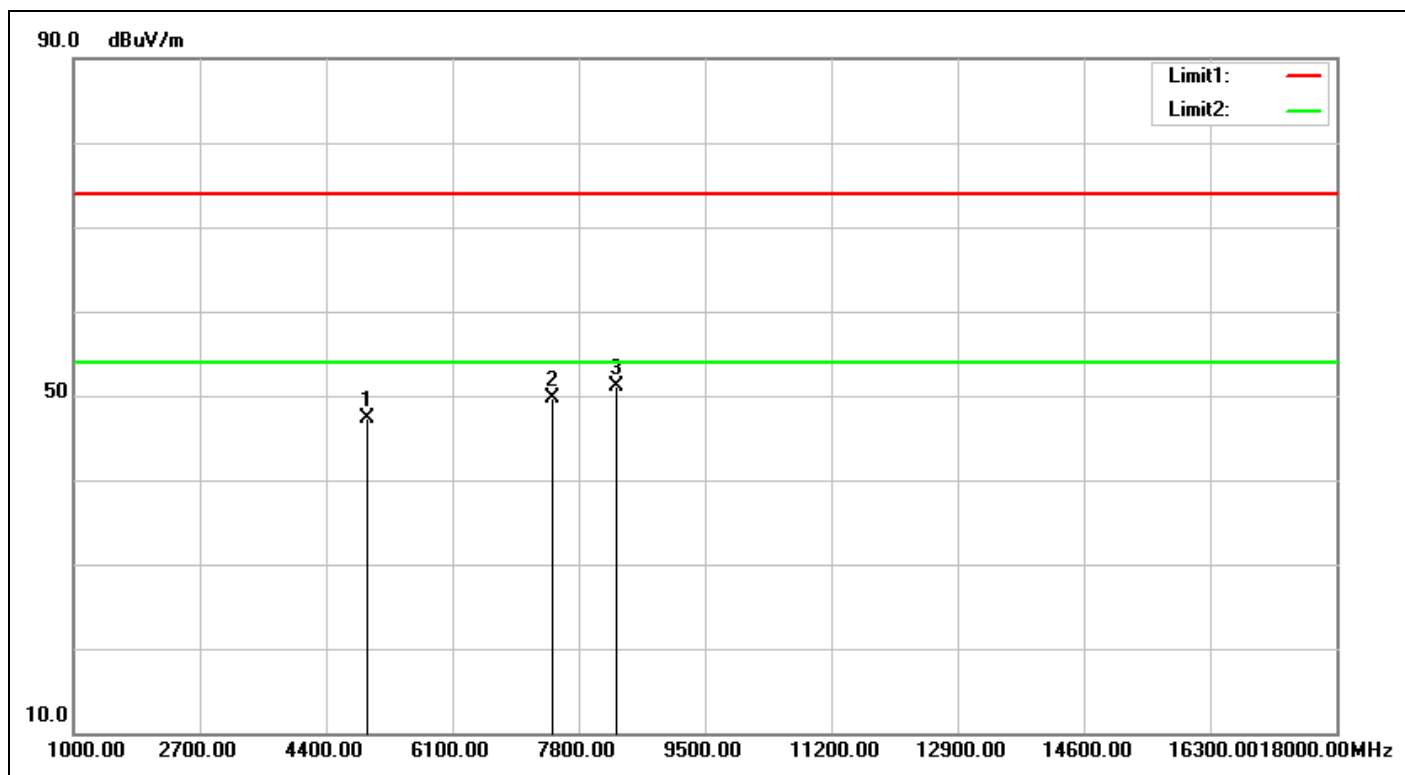
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 11:26:28
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%)	22(°C)/65%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.44	47.22	44.78	74.00	-29.22	peak			
2	7323.000	5.52	44.08	49.60	74.00	-24.40	peak			
3	8072.000	5.87	45.27	51.14	74.00	-22.86	peak	100	62	



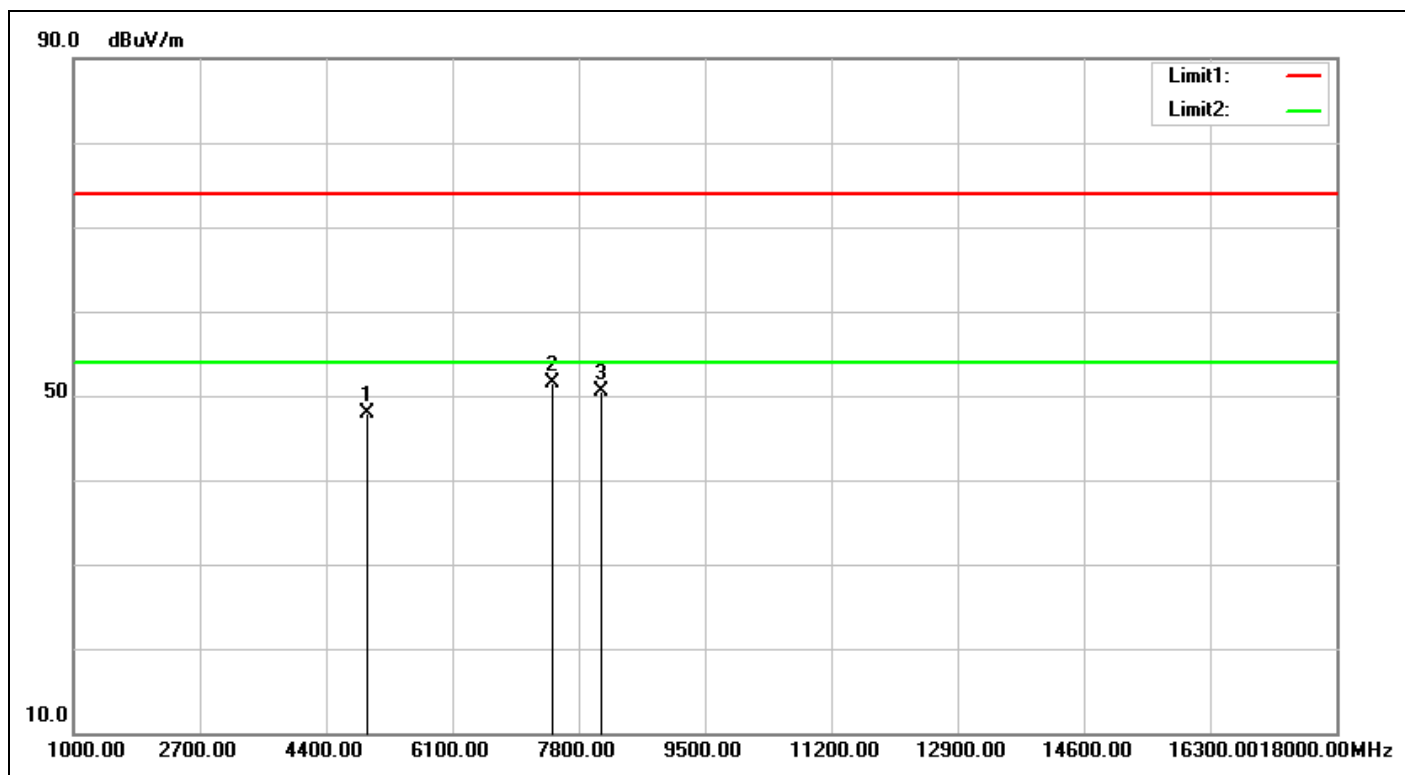
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 11:27:20
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%)	22(°C)/65%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.44	49.06	46.62	74.00	-27.38	peak			
2	7323.000	5.52	47.61	53.13	74.00	-20.87	peak	100	320	
3	7323.000	5.52	37.60	43.12	54.00	-10.88	AVG	100	320	
4	8344.000	6.28	45.18	51.46	74.00	-22.54	peak	100	347	



Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 11:31:09
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%)	22(°C)/65%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	3DH5-2480-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	-2.22	49.57	47.35	74.00	-26.65	peak			
2	7440.000	5.79	43.91	49.70	74.00	-24.30	peak			
3	8310.000	6.23	44.94	51.17	74.00	-22.83	peak	100	241	



Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 11:32:02
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%)	22(°C)/65%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	3DH5-2480-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	-2.22	50.13	47.91	74.00	-26.09	peak			
2	7440.000	5.79	45.75	51.54	74.00	-22.46	peak			
3	8106.000	5.93	44.65	50.58	74.00	-23.42	peak	100	171	

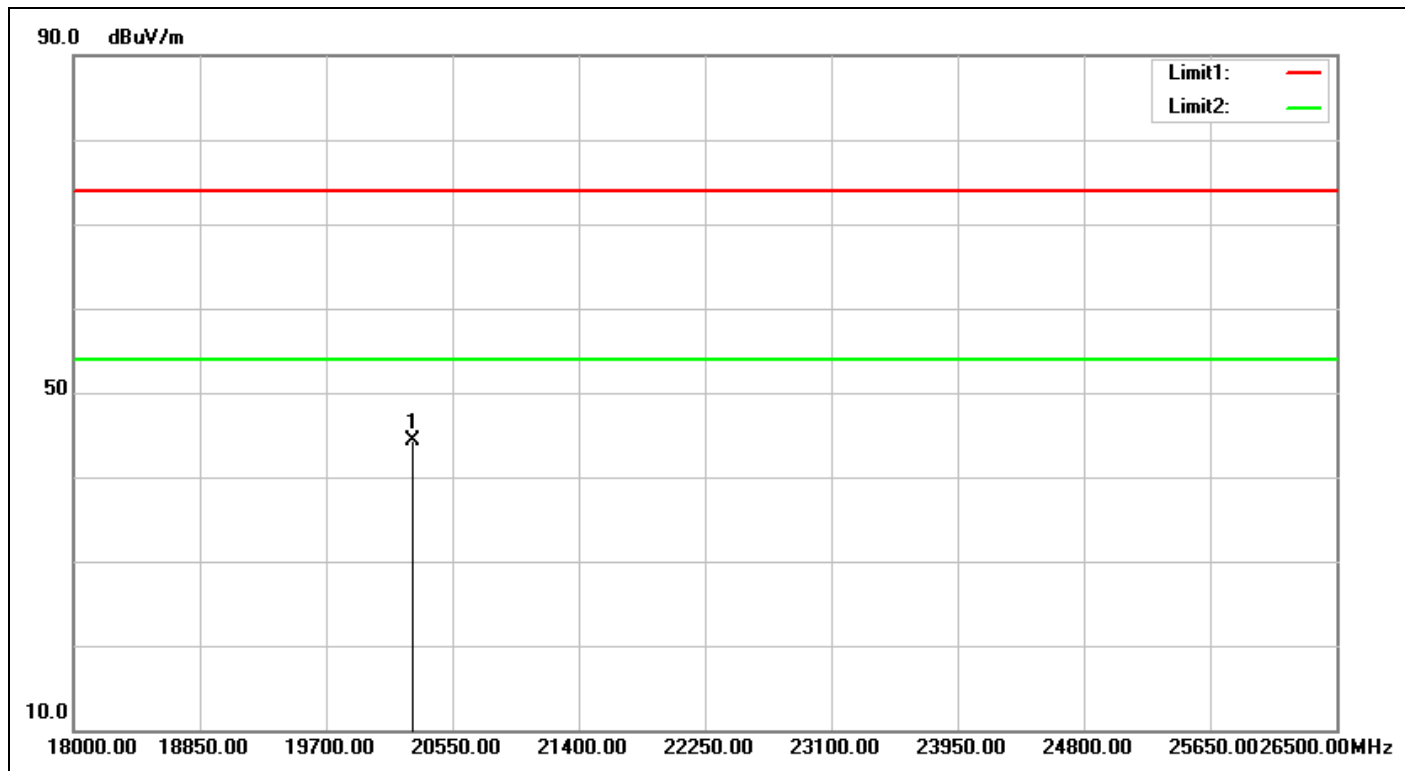
Spurious Emissions, TX Mode, 18-26G



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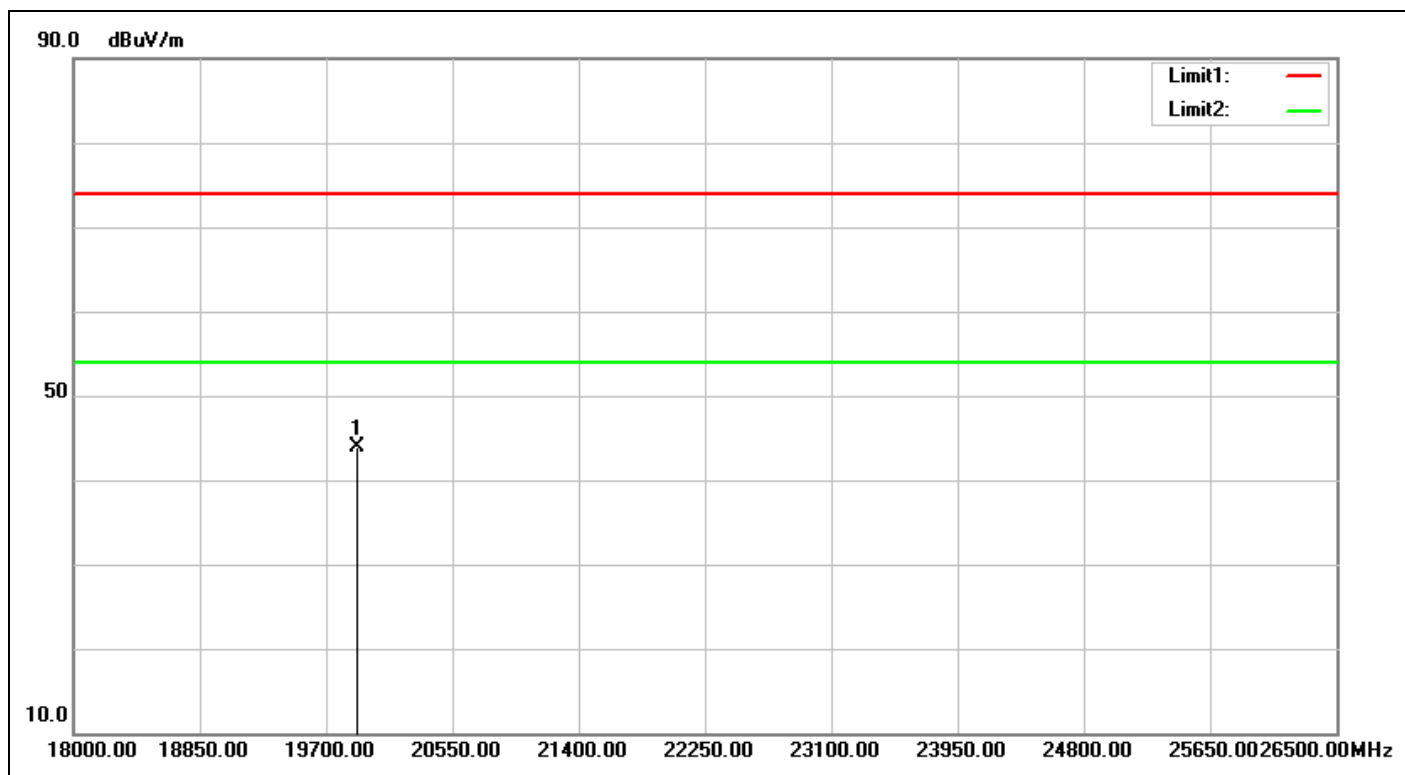
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



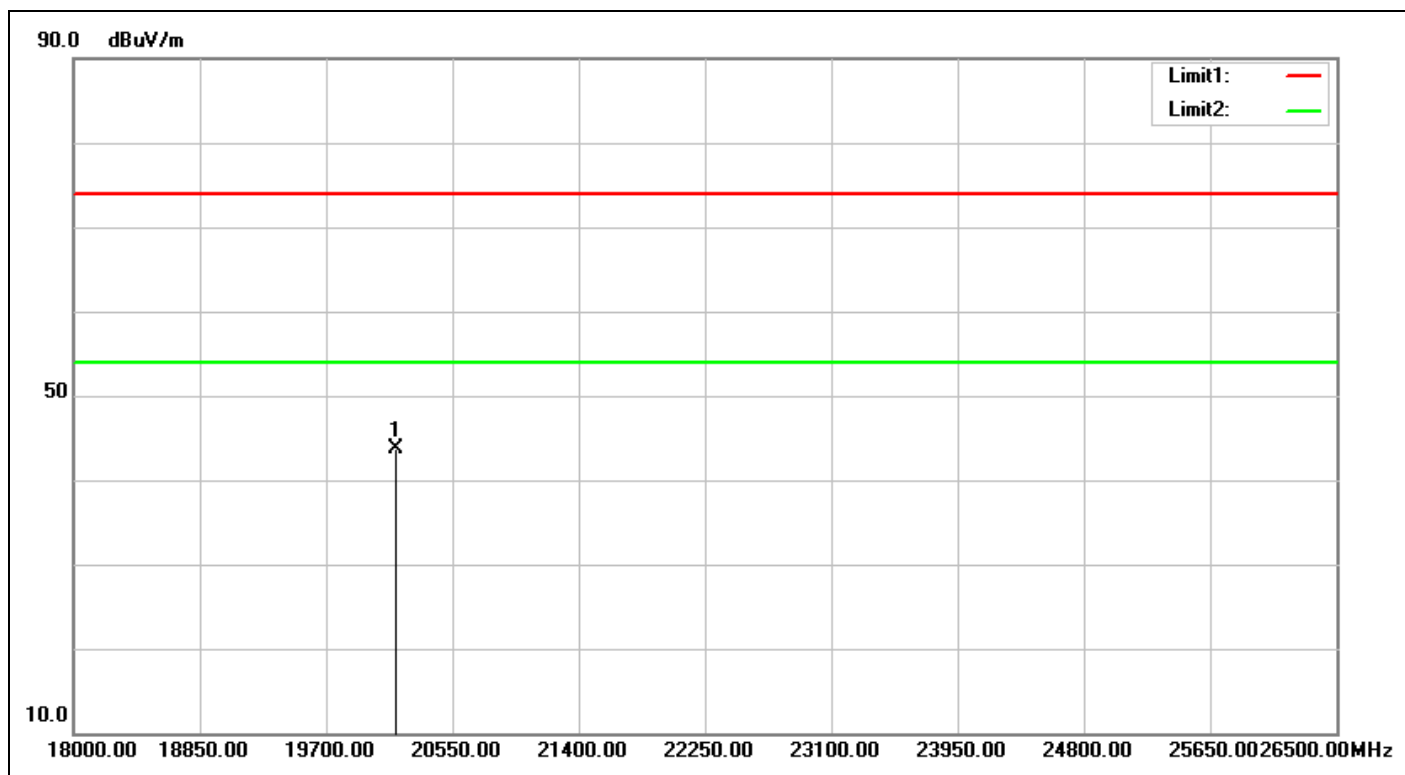
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/17 16:50:08
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20286.500	4.23	39.98	44.21	74.00	-29.79	peak		0	



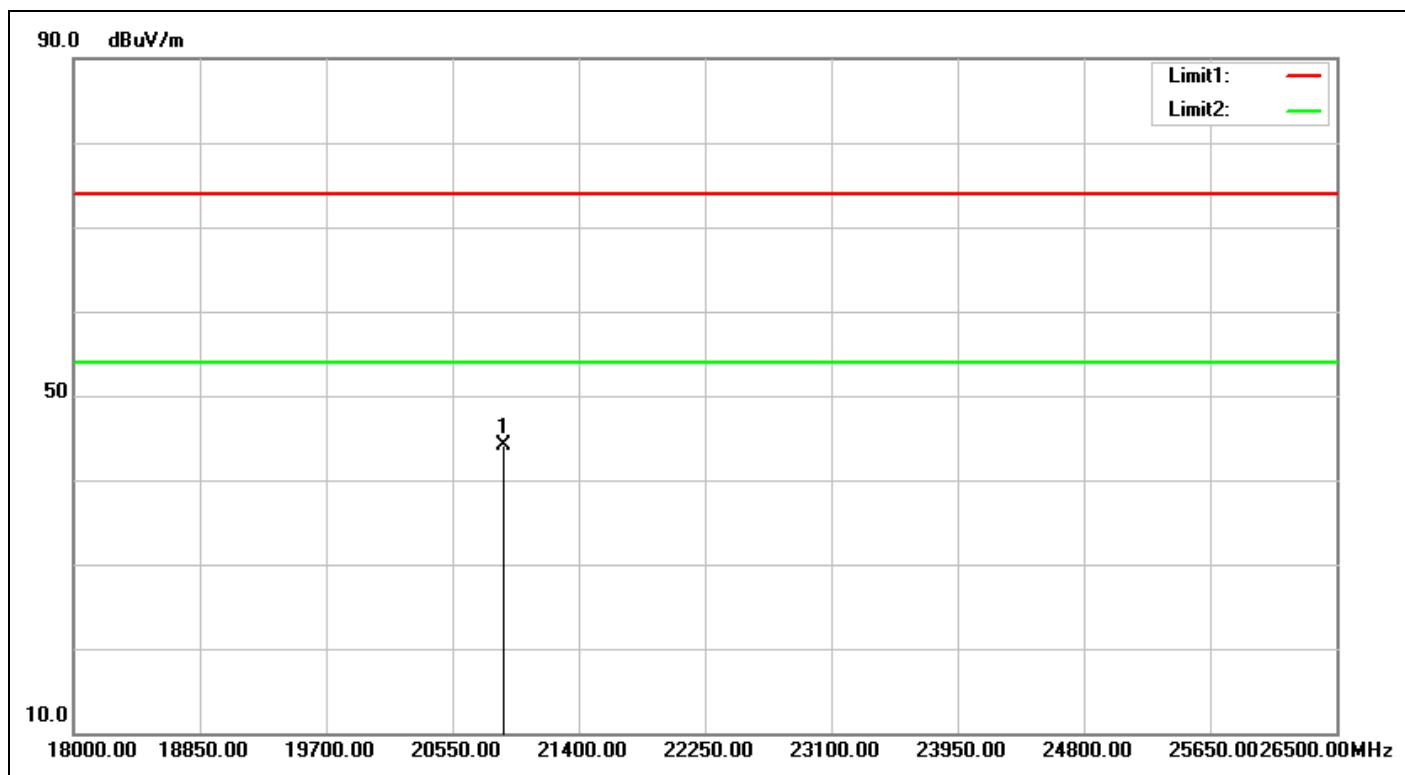
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/17 16:50:14
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19904.000	4.18	39.71	43.89	74.00	-30.11	peak			



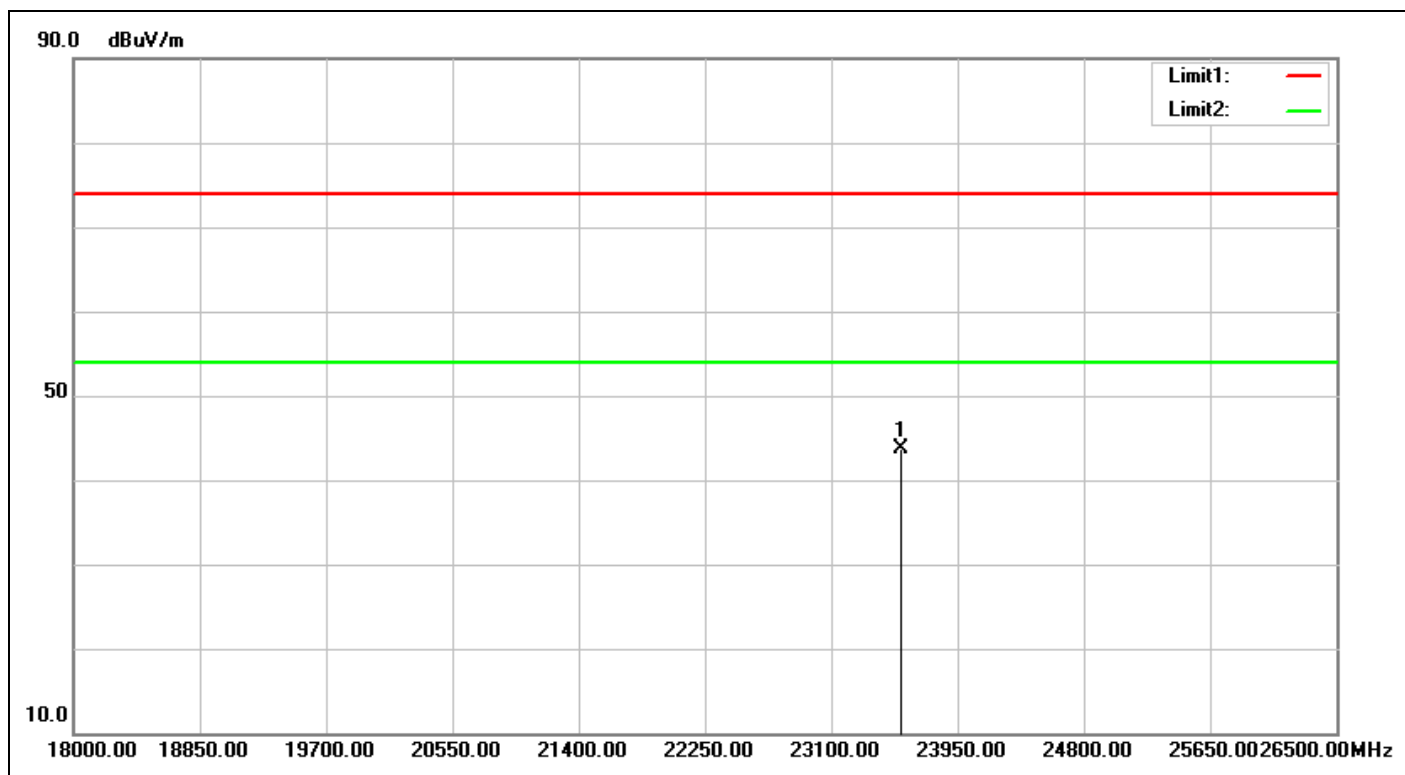
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/17 16:50:49
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20167.500	4.24	39.39	43.63	74.00	-30.37	peak			



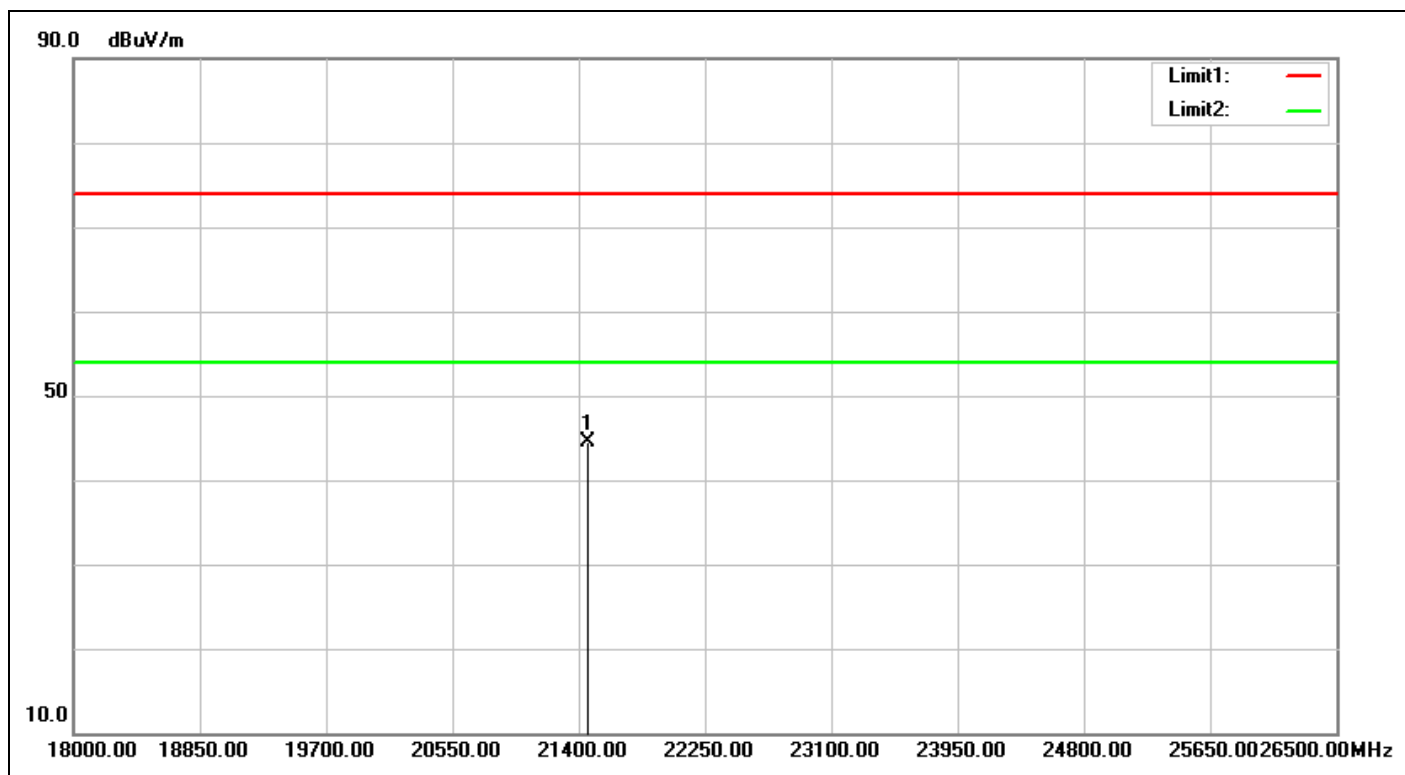
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/17 16:50:56
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20890.000	4.66	39.35	44.01	74.00	-29.99	peak			



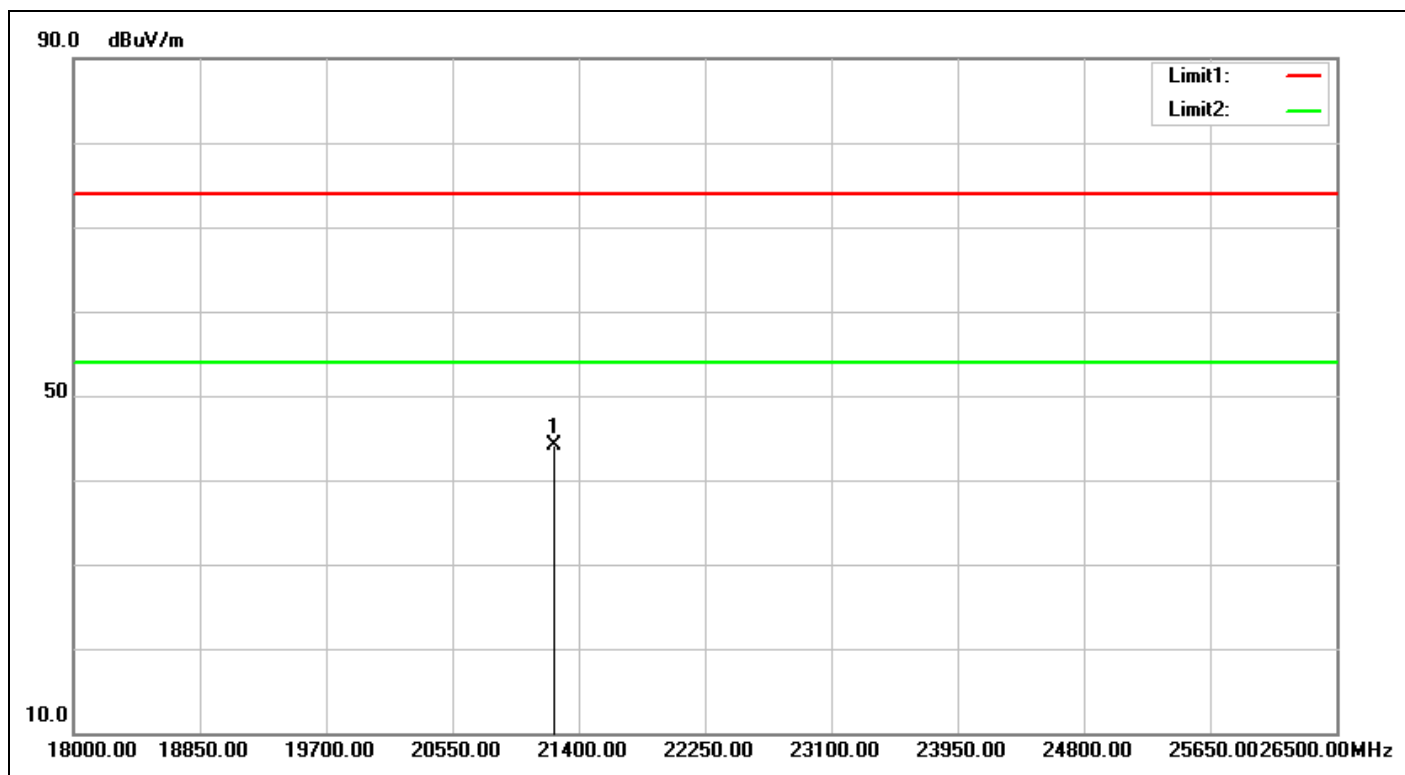
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/17 16:51:46
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23567.500	5.81	37.91	43.72	74.00	-30.28	peak			



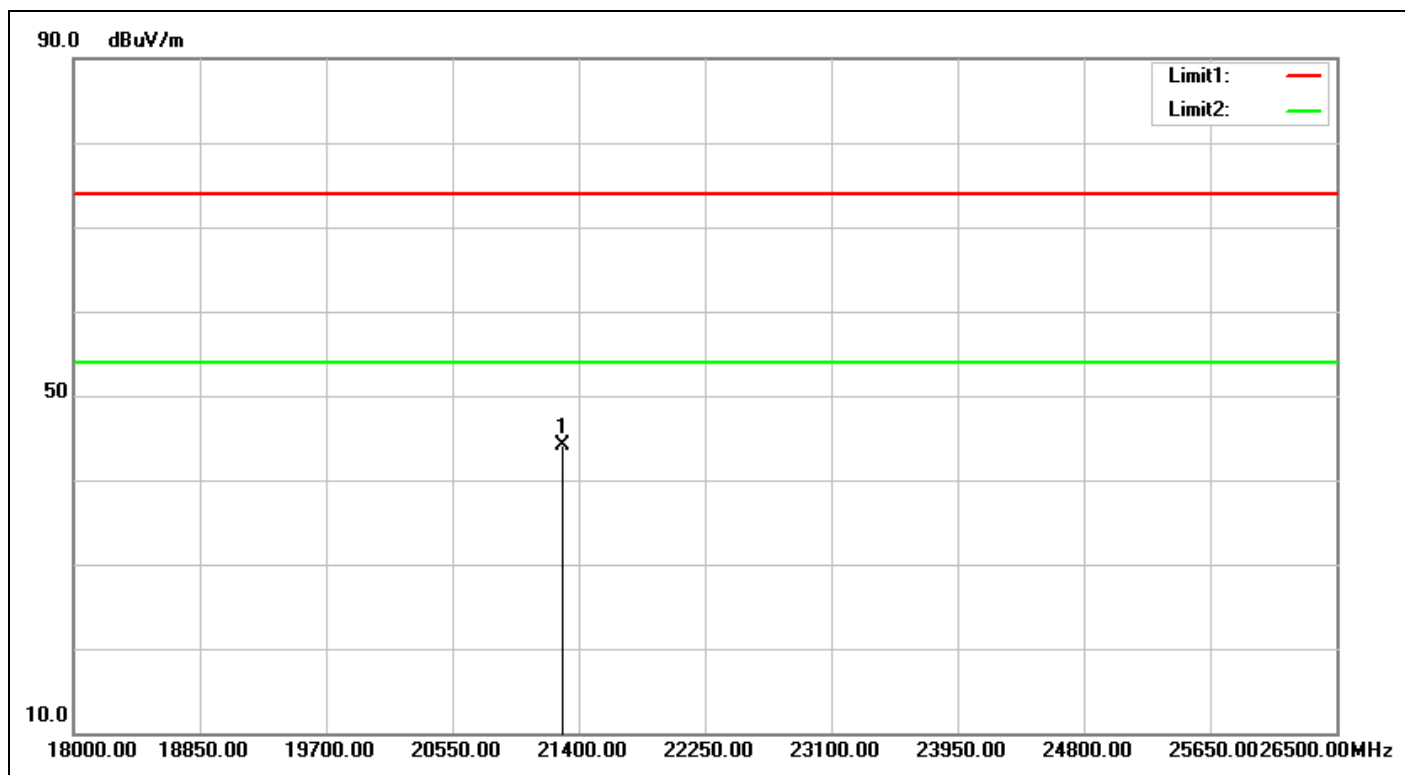
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/17 16:51:53
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21459.500	4.37	40.07	44.44	74.00	-29.56	peak			



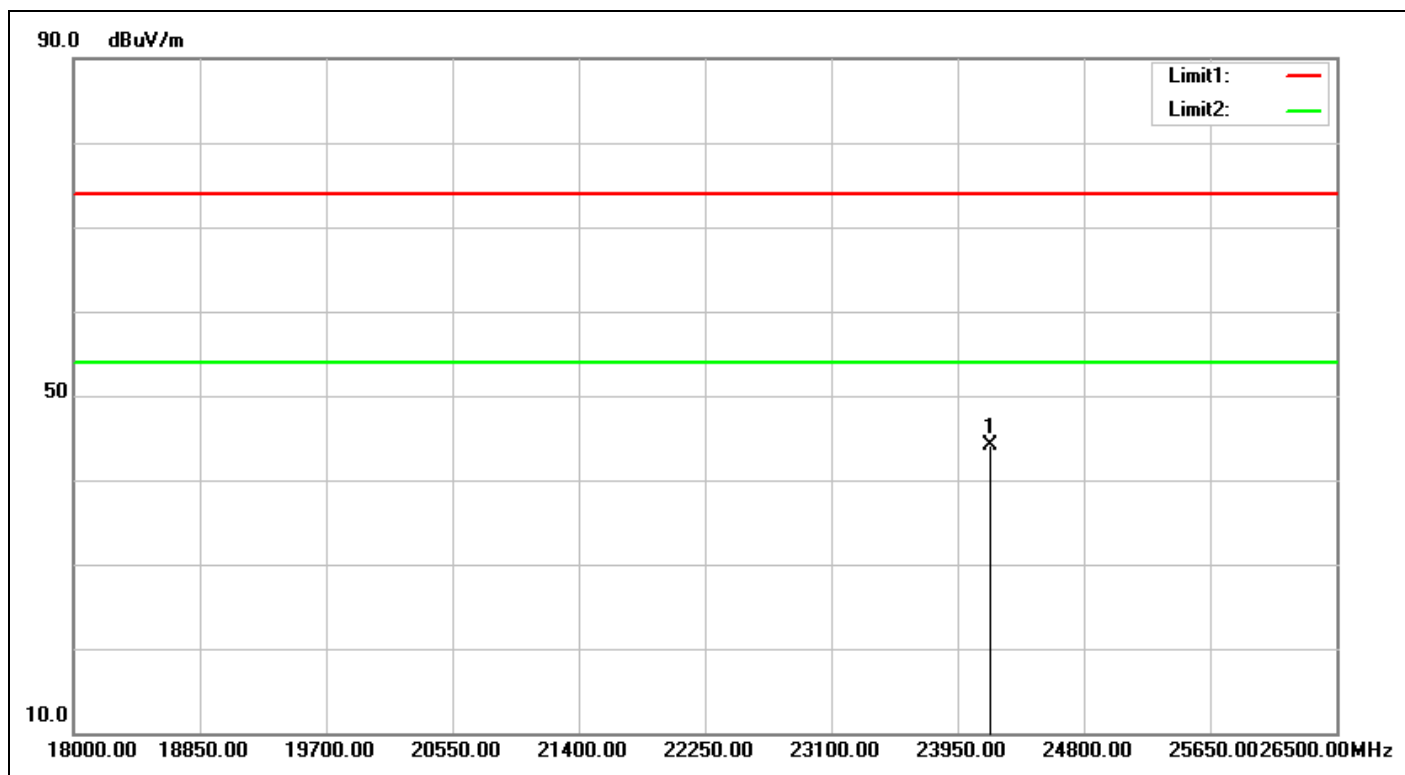
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/17 16:53:22
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	3DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21230.000	4.57	39.44	44.01	74.00	-29.99	peak			



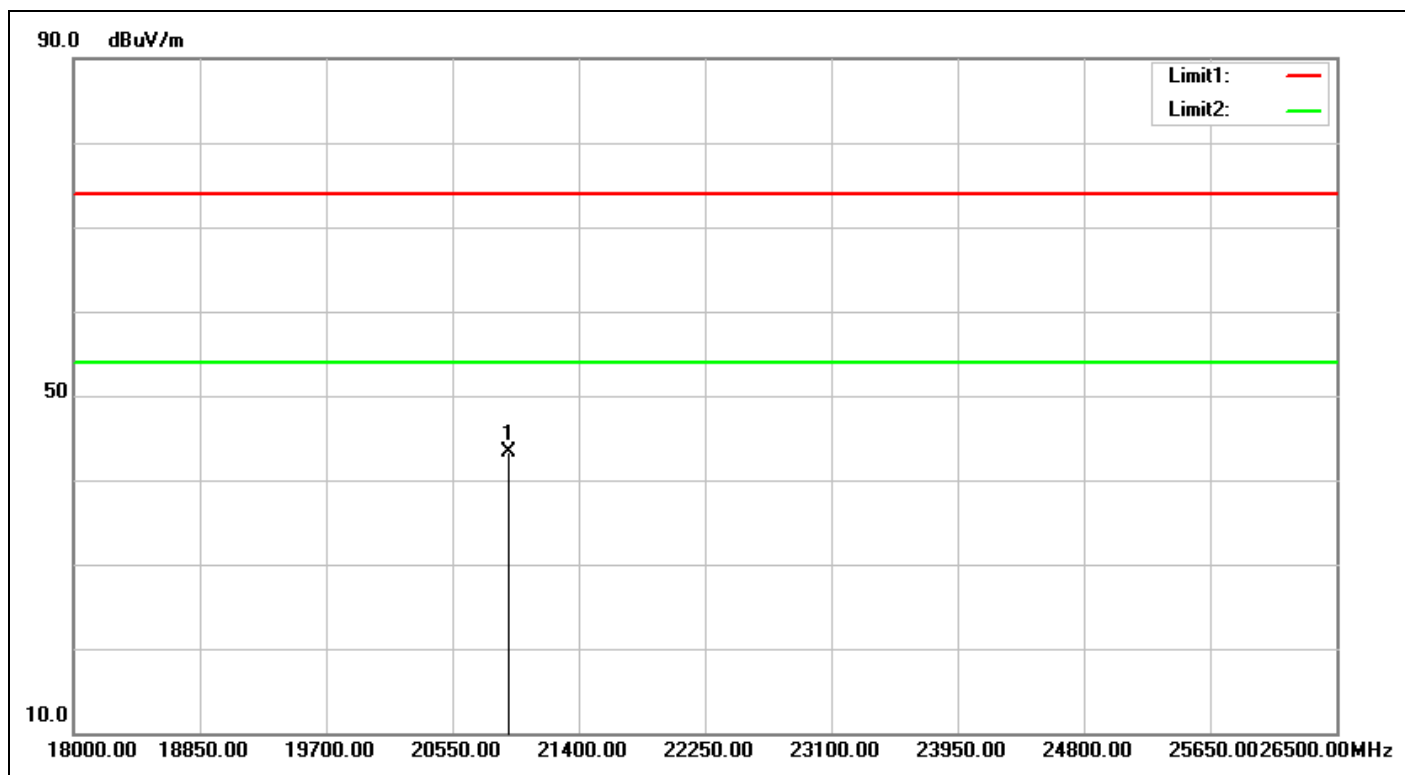
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/17 16:53:29
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	3DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21289.500	4.52	39.58	44.10	74.00	-29.90	peak			



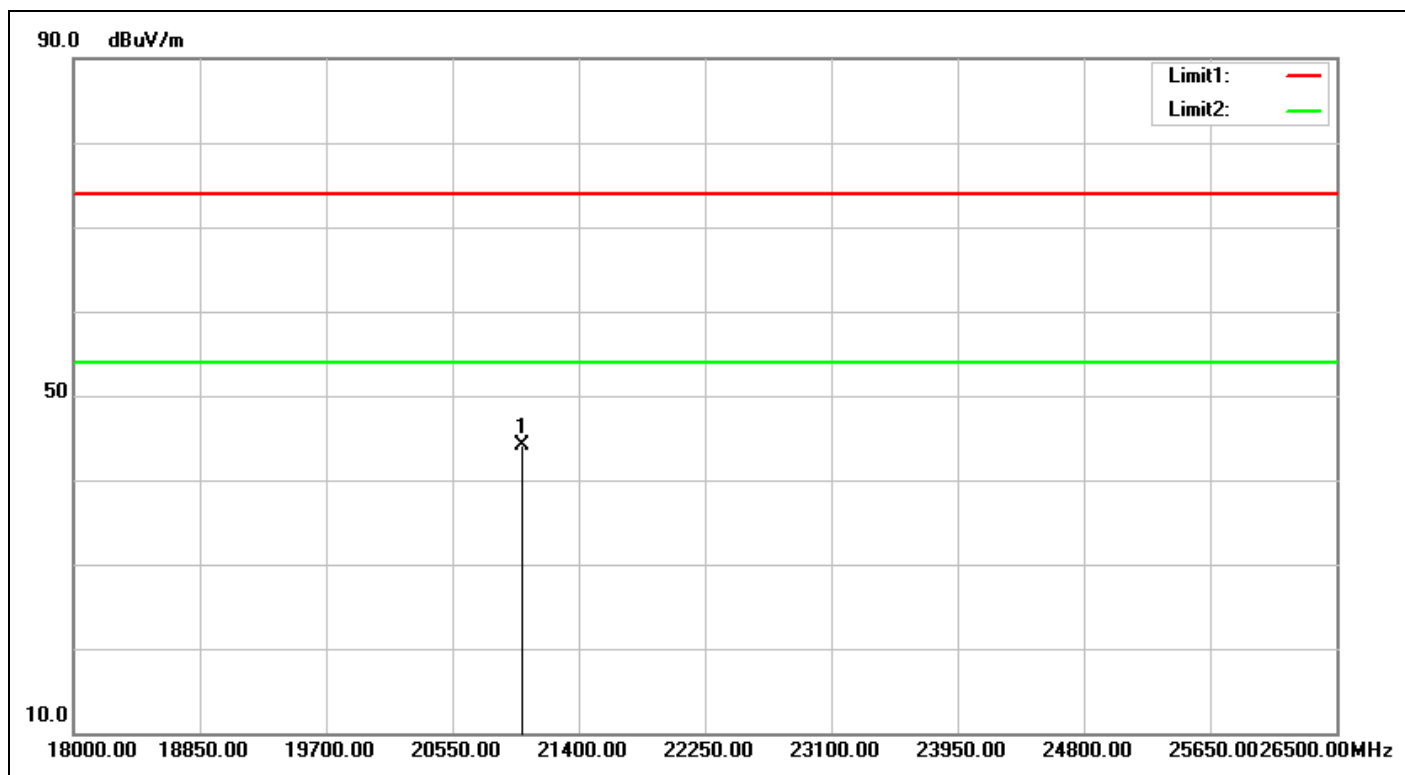
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/17 16:53:52
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	24171.000	5.37	38.70	44.07	74.00	-29.93	peak			



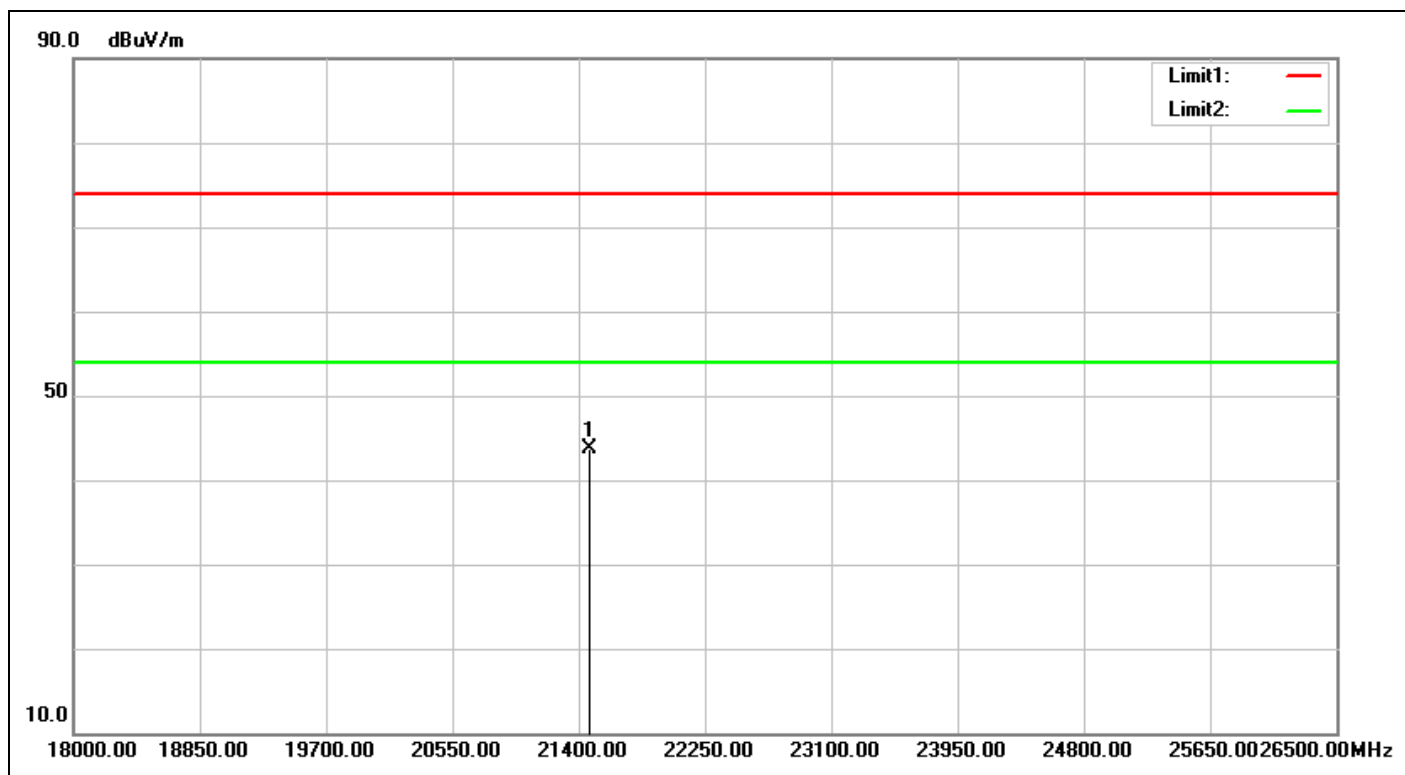
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/17 16:53:59
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%)	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20932.500	4.71	38.69	43.40	74.00	-30.60	peak			



Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/17 16:54:21
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21017.500	4.78	39.39	44.17	74.00	-29.83	peak			



Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/17 16:54:28
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21476.500	4.35	39.27	43.62	74.00	-30.38	peak			

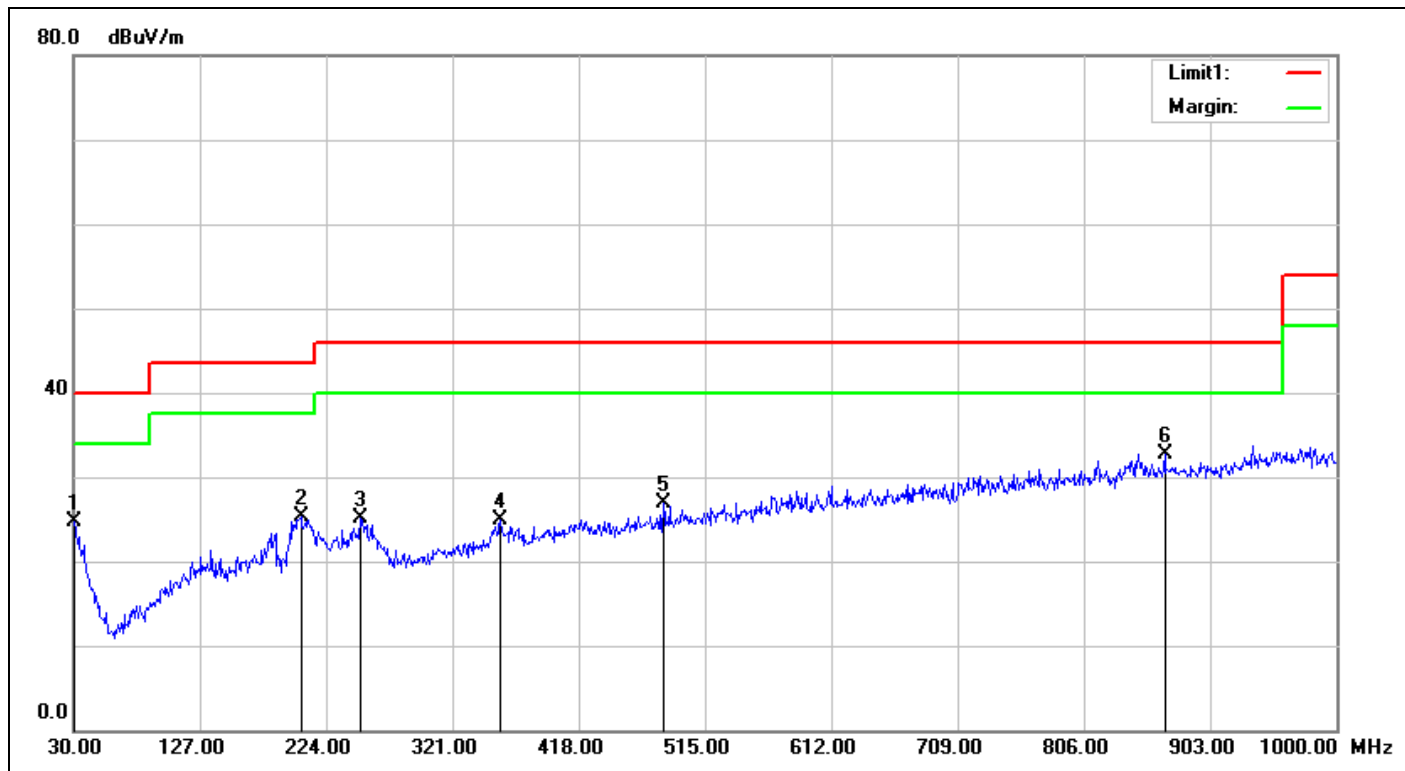
Spurious Emissions, TX Mode, 30M-1G



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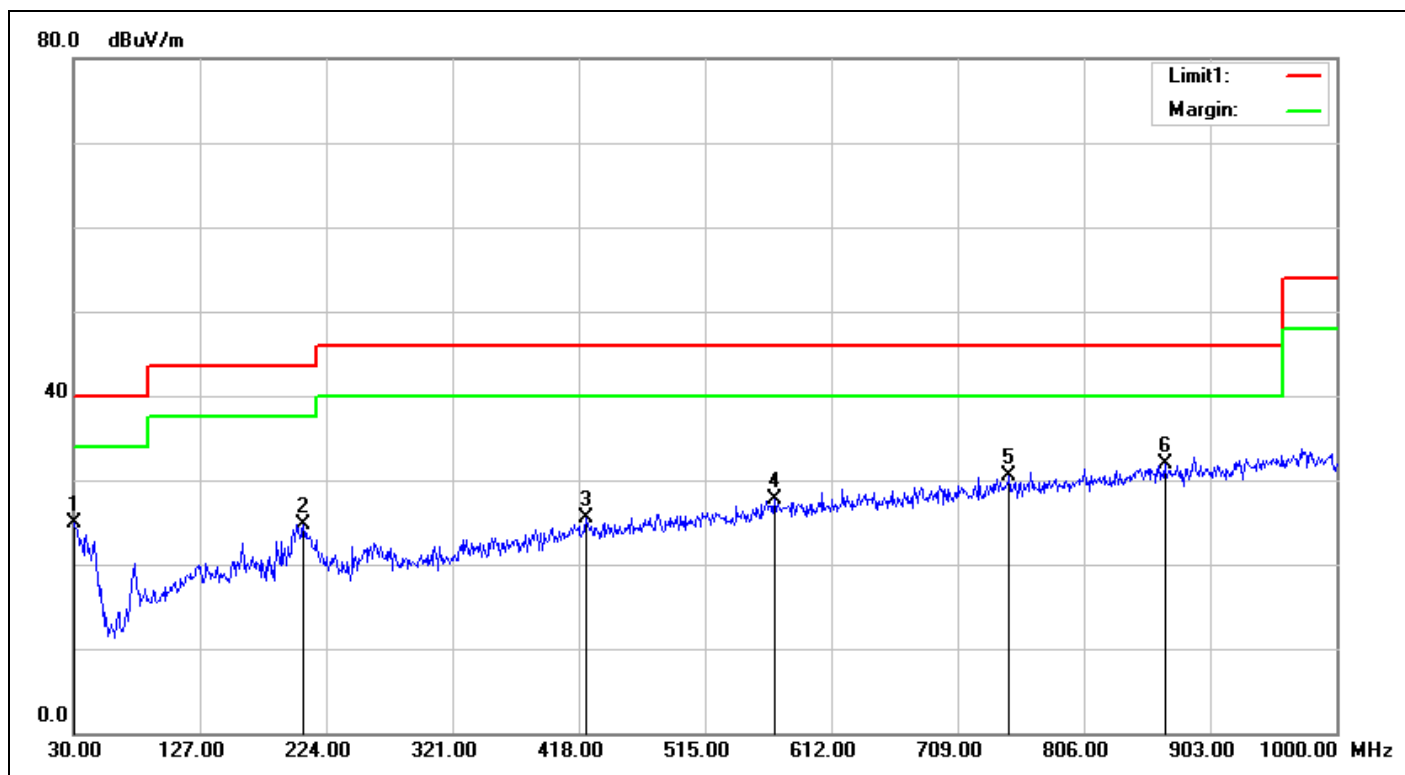
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/17 16:16:18
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%):	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	-0.51	25.26	24.75	40.00	-15.25	QP	100	0	
2	204.6000	-8.63	33.93	25.30	43.50	-18.20	QP	100	187	
3	250.1900	-5.66	30.77	25.11	46.00	-20.89	QP	100	78	
4	357.8600	-3.17	28.09	24.92	46.00	-21.08	QP	100	213	
5	482.9900	-1.47	28.45	26.98	46.00	-19.02	QP	100	157	
6	868.0800	4.22	28.58	32.80	46.00	-13.20	QP	100	85	



Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/17 16:17:11
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%)	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2441-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	24.86	24.83	40.00	-15.17	QP	100	166	
2	206.5400	-8.60	33.37	24.77	43.50	-18.73	QP	100	180	
3	423.8200	-2.00	27.41	25.41	46.00	-20.59	QP	100	3	
4	568.3500	0.11	27.63	27.74	46.00	-18.26	QP	100	334	
5	748.7700	2.39	28.12	30.51	46.00	-15.49	QP	100	71	
6	868.0800	4.22	27.69	31.91	46.00	-14.09	QP	100	117	

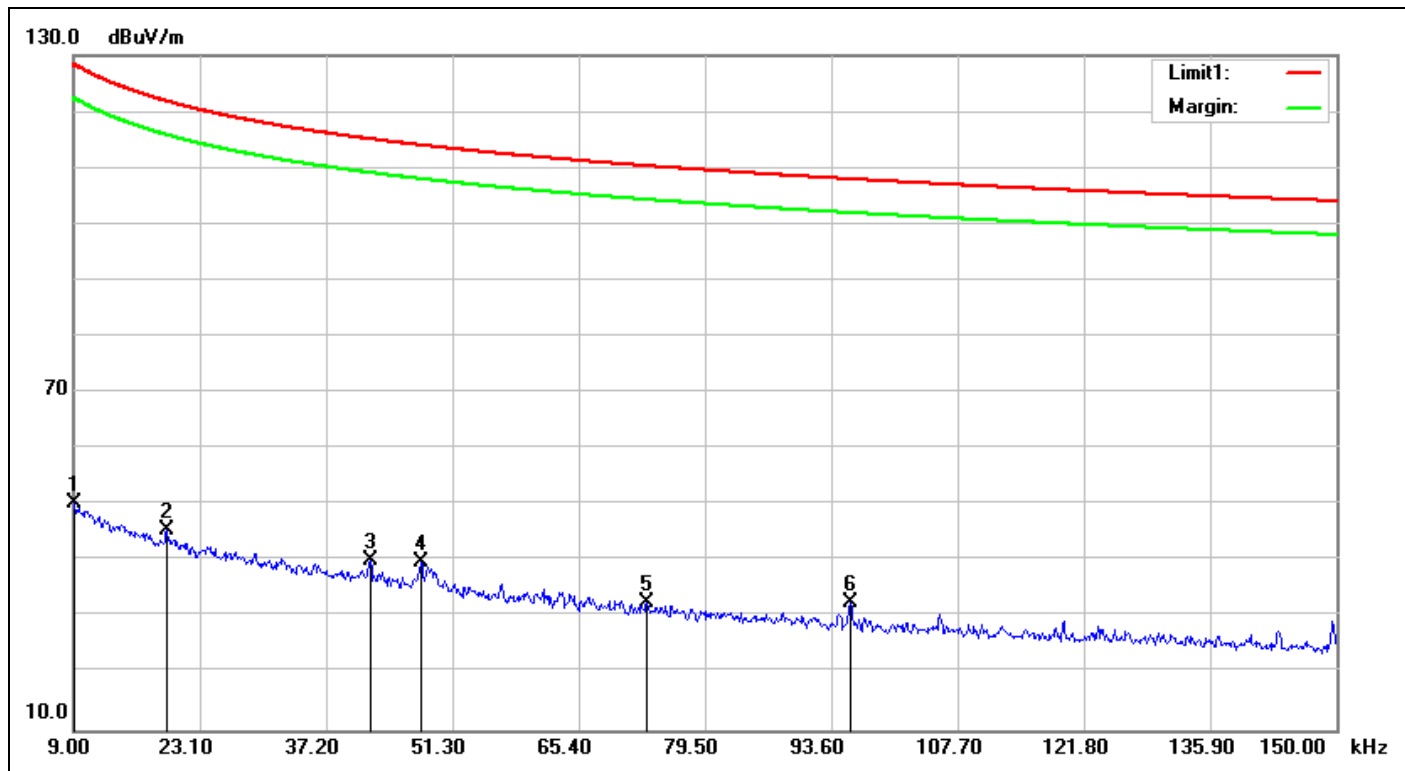
Spurious Emissions, TX Mode, 9K-30M



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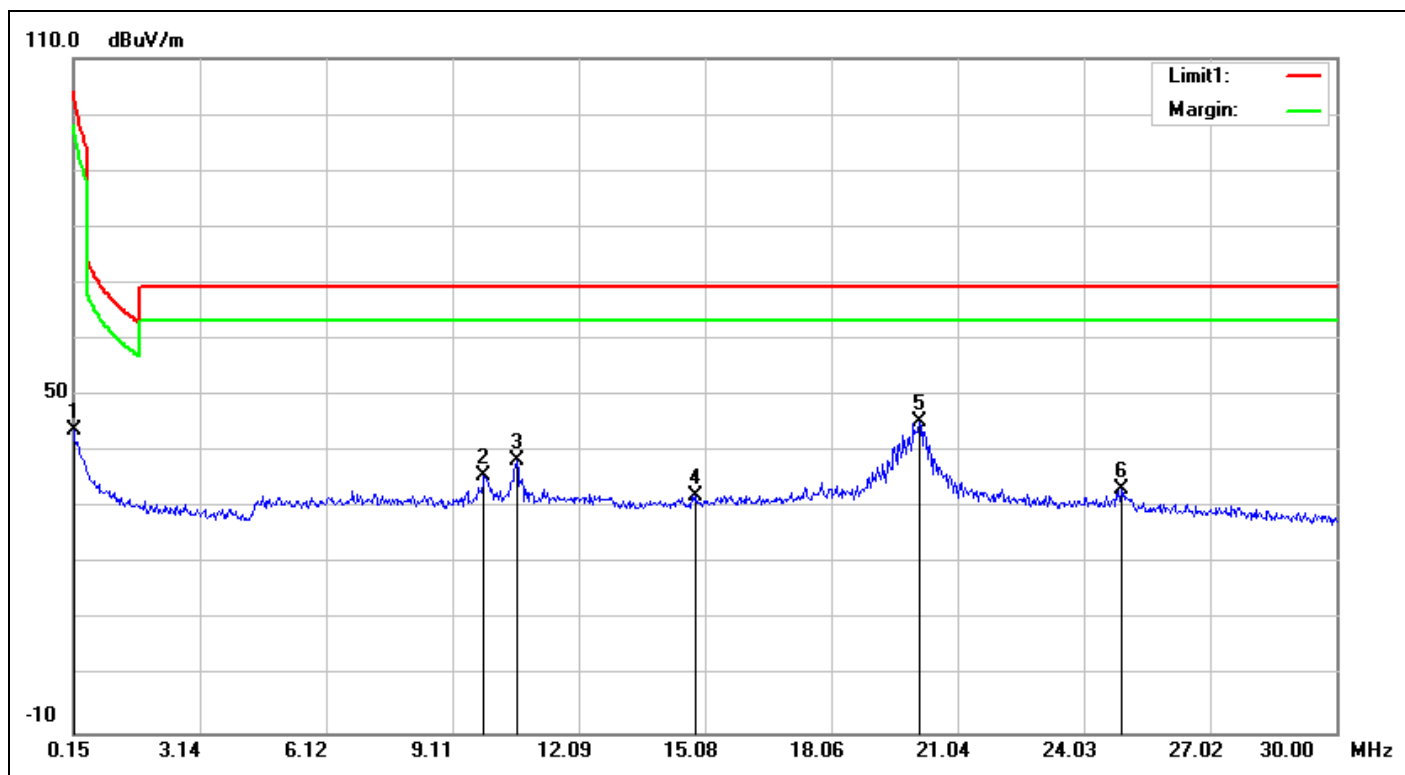
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/10/17 16:31:13
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%)	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0090	18.32	32.01	50.33	128.50	-78.17	QP	100	79	
2	0.0194	18.90	26.53	45.43	121.83	-76.40	QP	100	253	
3	0.0421	19.08	20.96	40.04	115.11	-75.07	QP	100	98	
4	0.0478	18.96	20.84	39.80	114.00	-74.20	QP	100	243	
5	0.0730	18.64	14.14	32.78	110.33	-77.55	QP	100	79	
6	0.0957	18.38	14.40	32.78	107.98	-75.20	QP	100	246	



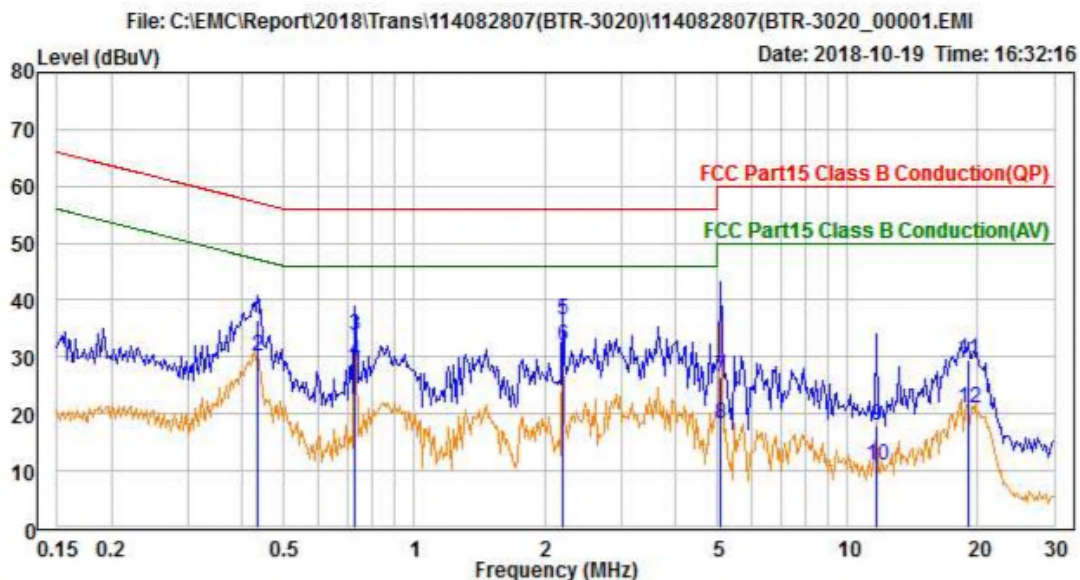
Service No.:	114082807	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/10/17 16:32:30
Applicant:	Trans Electric Co.,	Test Rating:	AC 110V
Product:	Bluetooth Music Receiver	Temp.(°C)/Hum.(%)	21(°C)/60%
Model No.:	BTR-3020	Test Engineer:	Curry Chen
Test Mode:	1DH5-2441-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	25.45	43.81	104.08	-60.27	QP	100	292	
2	9.8513	20.41	15.41	35.82	69.50	-33.68	QP	100	124	
3	10.6274	20.51	17.93	38.44	69.50	-31.06	QP	100	315	
4	14.8661	21.01	11.12	32.13	69.50	-37.37	QP	100	94	
5	20.1495	21.61	23.88	45.49	69.50	-24.01	QP	100	360	
6	24.9255	21.79	11.69	33.48	69.50	-36.02	QP	100	127	

Spurious Emissions, AC Mains



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Trace: 1

Site : Conduction room

Condition : FCC Part15 Class B Conduction(QP) line1

Test Engineer: Amy Hsu

Applicant : Trans

Product : Bluetooth music receiver

Model No. : BTR-3020

Test Rating : 120Vac/60Hz

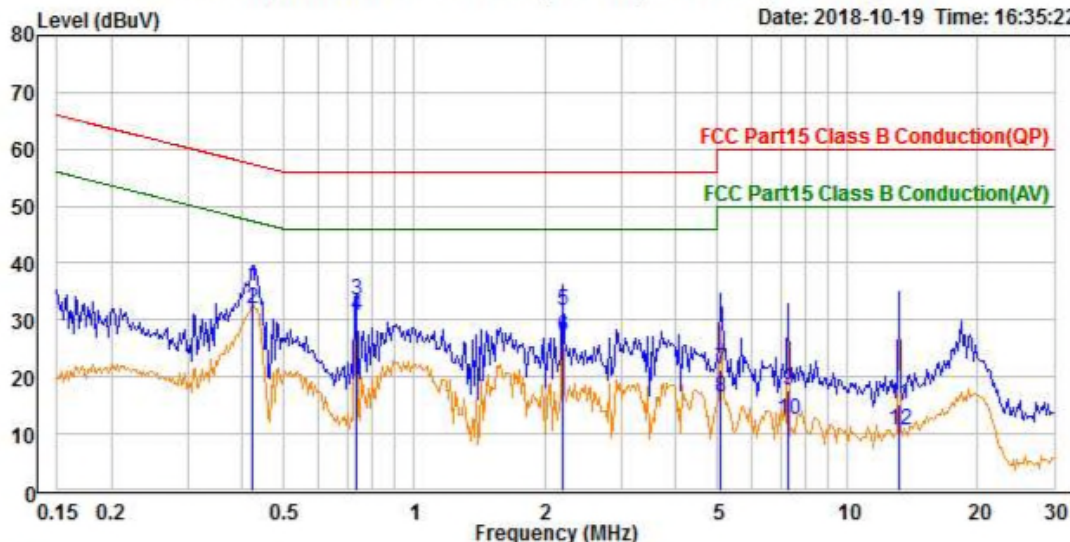
Tmp/Hum : 21.6°C/49%

Memo : BT link

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.435	26.82	9.69	36.51	57.17	-20.66	QP
2	0.435	20.43	9.69	30.12	47.17	-17.05	Average
3	0.729	24.04	9.69	33.73	56.00	-22.27	QP
4	0.729	19.61	9.69	29.30	46.00	-16.70	Average
5	2.196	26.90	9.72	36.62	56.00	-19.38	QP
6	2.196	22.31	9.72	32.03	46.00	-13.97	Average
7	5.113	16.68	9.76	26.44	60.00	-33.56	QP
8	5.113	8.43	9.76	18.19	50.00	-31.81	Average
9	11.668	8.12	9.84	17.96	60.00	-42.04	QP
10	11.668	1.16	9.84	11.00	50.00	-39.00	Average
11	18.990	19.75	9.86	29.61	60.00	-30.39	QP
12	18.990	11.10	9.86	20.96	50.00	-29.04	Average

File: C:\EMC\Report\2018\Trans\114082807(BTR-3020)\114082807(BTR-3020_00003.EMI

Date: 2018-10-19 Time: 16:35:22



Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) neutral
Test Engineer: Amy Hsu
Applicant : Trans
Product : Bluetooth music receiver
Model No. : BTR-3020
Test Rating : 120Vac/60Hz
Tmp/Hum : 21.6°C /49%
Memo : BT link

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.422	26.06	9.68	35.74	57.41	-21.67	QP
2	0.422	22.17	9.68	31.85	47.41	-15.56	Average
3	0.736	23.88	9.69	33.57	56.00	-22.43	QP
4	0.736	20.90	9.69	30.59	46.00	-15.41	Average
5	2.196	21.82	9.72	31.54	56.00	-24.46	QP
6	2.196	17.38	9.72	27.10	46.00	-18.90	Average
7	5.113	11.46	9.77	21.23	60.00	-38.77	QP
8	5.113	6.75	9.77	16.52	50.00	-33.48	Average
9	7.313	7.84	9.80	17.64	60.00	-42.36	QP
10	7.313	2.81	9.80	12.61	50.00	-37.39	Average
11	13.146	5.25	9.86	15.11	60.00	-44.89	QP
12	13.146	0.75	9.86	10.61	50.00	-39.39	Average