

Test Report No.50081304 001

Appendix D: Radiated and Mains Spurious Emission Data

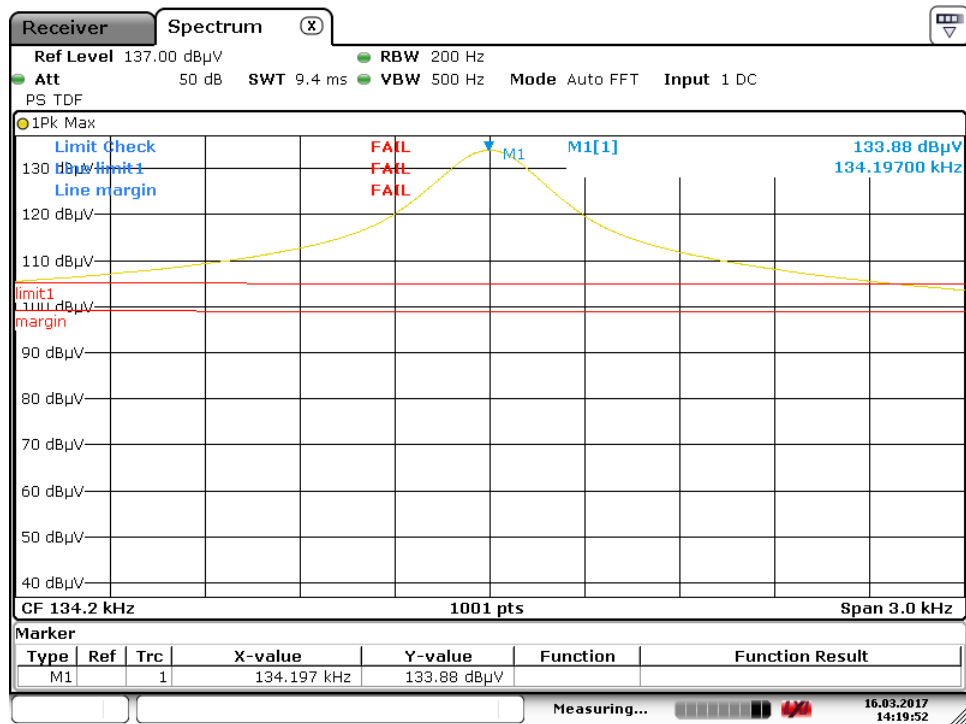
(File: 50081304 001AppendixD)

Contents

Emissions, Fundamental.....	2
Spurious Emissions, TX Mode, 9k-150k.....	6
Spurious Emissions, TX Mode, 150k-30M.....	9
Spurious Emissions, TX Mode, 30M-1G.....	12
Spurious Emissions, Mains, 150kHz - 30MHz.....	18

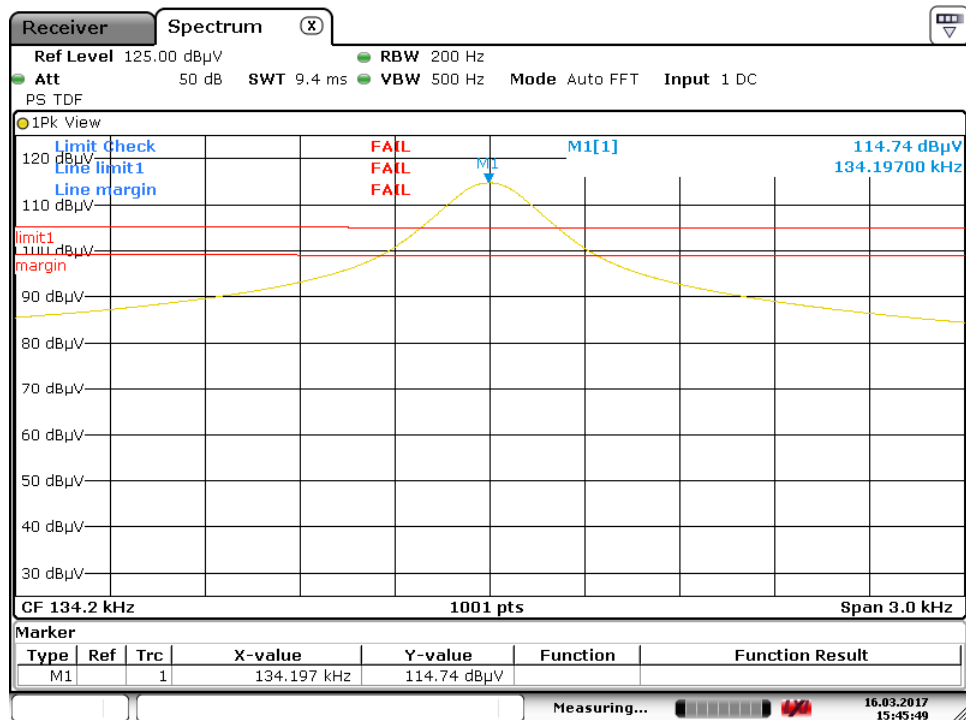
Emissions, Fundamental

VP6040



Date: 16.MAR.2017 14:19:52

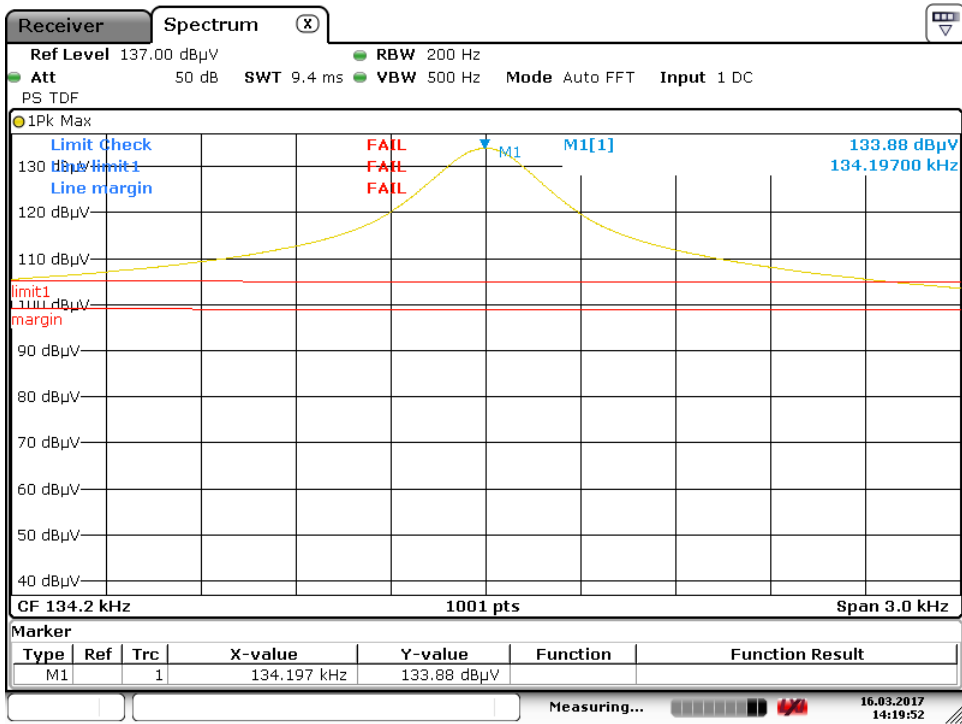
VP6042



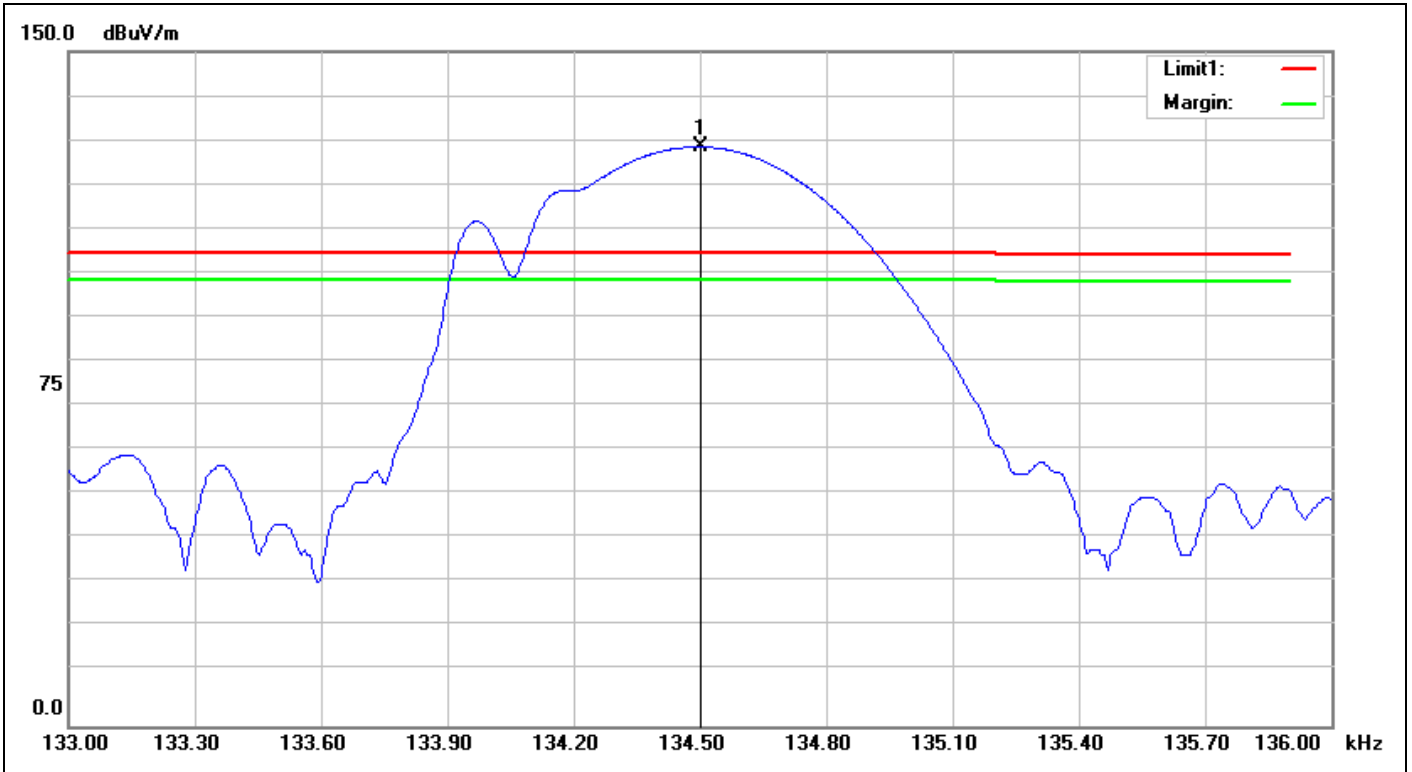
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Emissions, Fundamental

VP6050

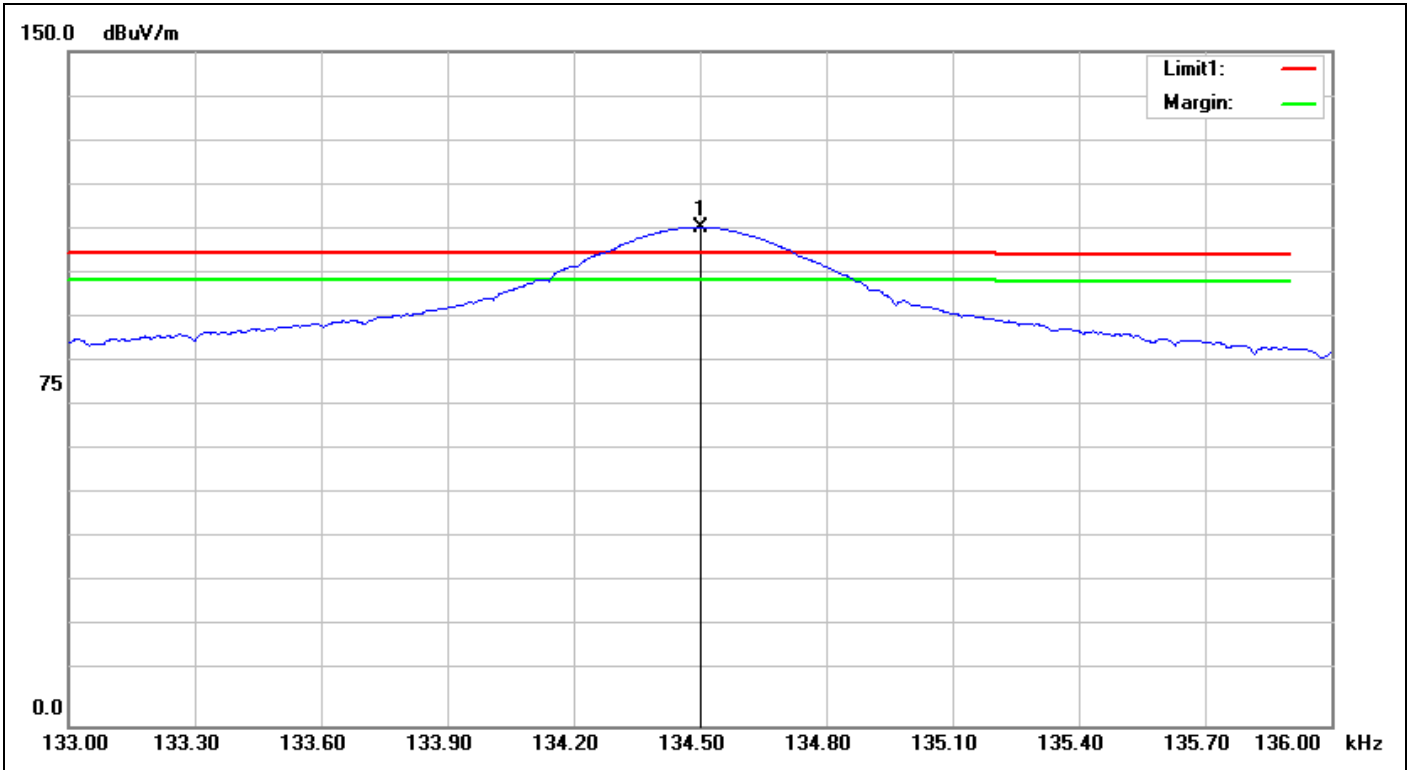


Date: 16.MAR.2017 14:19:52



Service No.:	114061212_FCC	Test Distance:	3m
Test Standard:	FCC 15.209_9k-30M_3m(dBuV/m)	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/3/16 10:45:57
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX		
	3m		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1342	18.82	109.98	128.80	105.05	23.75	peak			



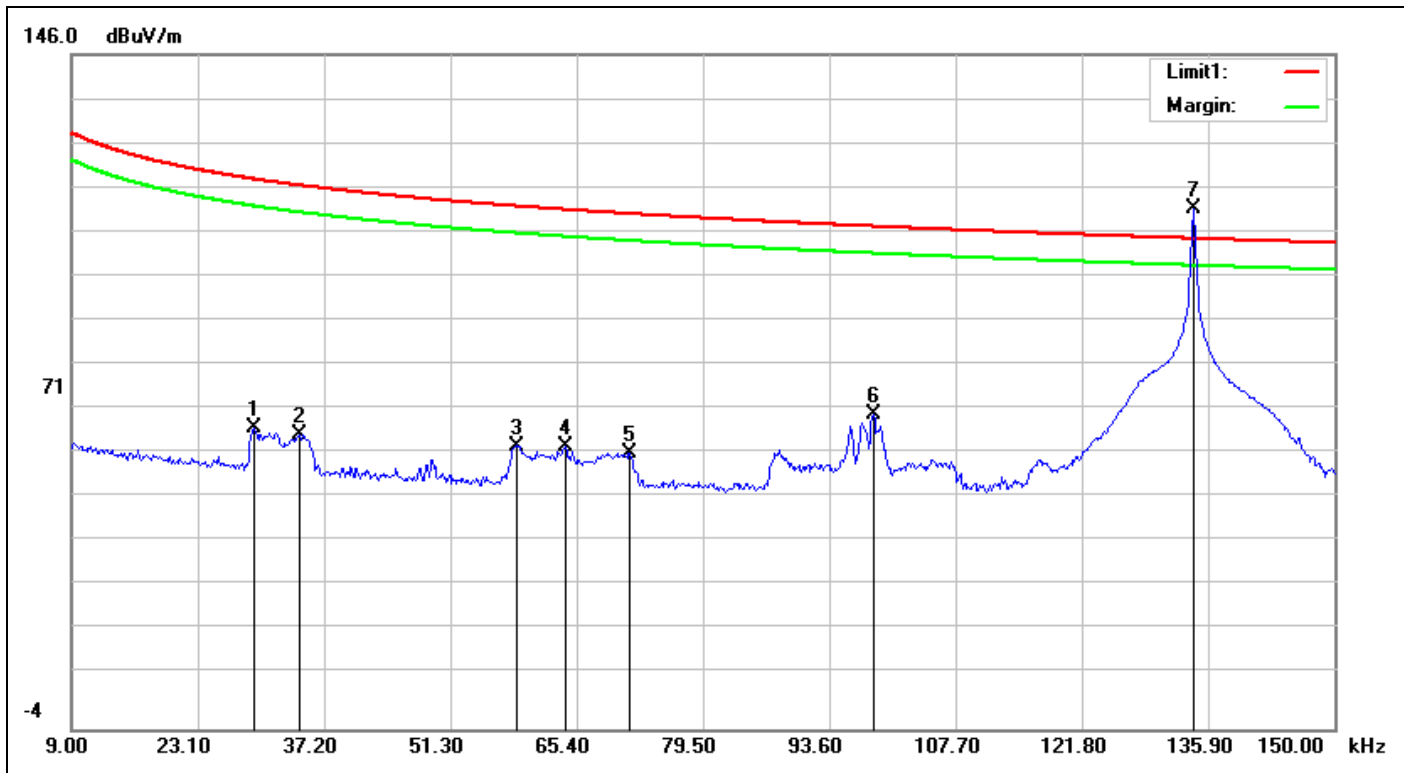
Service No.:	114061212_FCC	Test Distance:	6m
Test Standard:	FCC 15.209_9k-30M_3m(dBuV/m)	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/3/16 10:49:03
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1342	18.82	92.12	110.94	105.05	5.89	peak			

Spurious Emissions, TX Mode, 9k-150k

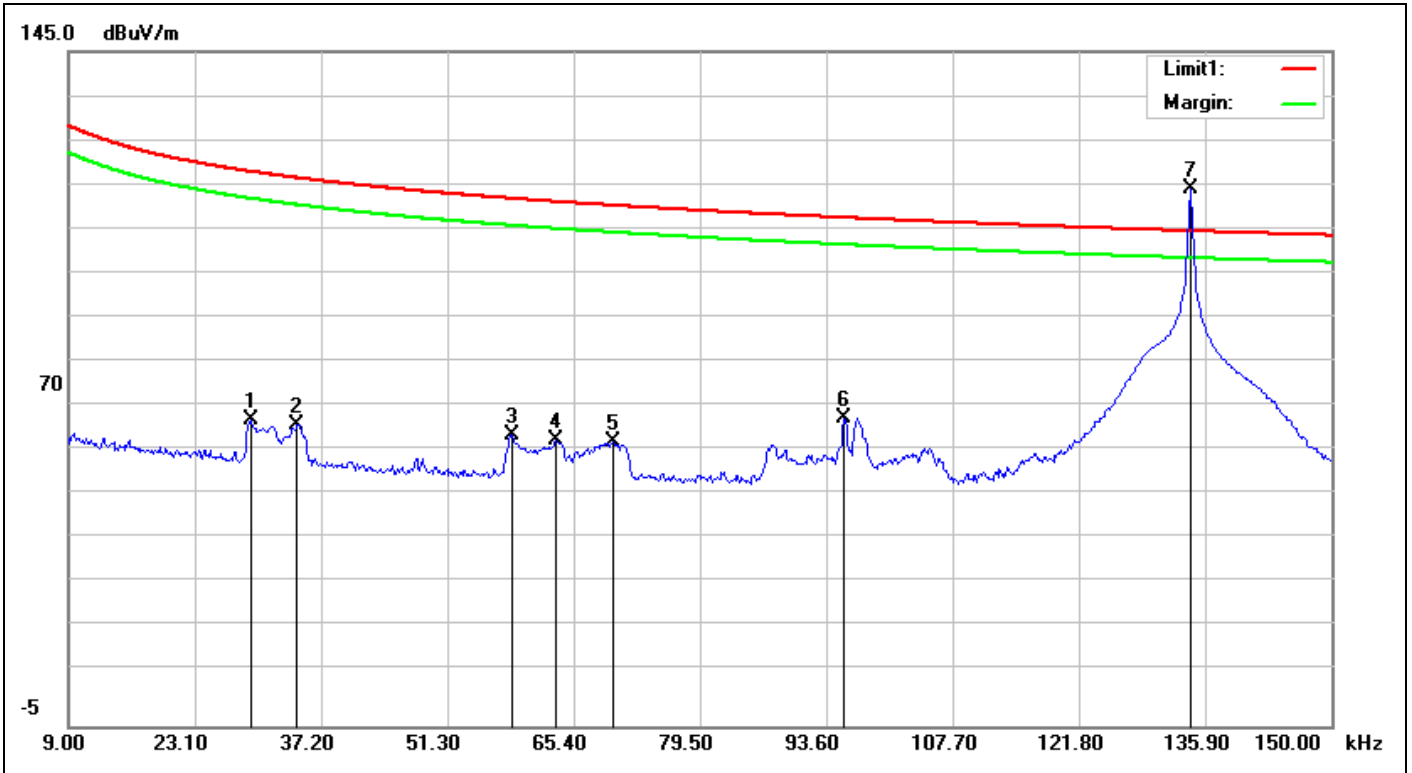


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Service No.:	114061212	Test Distance:	3m
Test Standard:	FCC 15.209_9k-30M_3m(dBuV/m)	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/3/16 15:01:43
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX		
	ANT:VP6040		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0293	20.23	42.83	63.06	118.27	-55.21	QP	100	97	
2	0.0345	19.99	41.42	61.41	116.85	-55.44	QP	100	94	
3	0.0586	19.15	39.85	59.00	112.25	-53.25	QP	100	102	
4	0.0641	19.12	39.54	58.66	111.47	-52.81	QP	100	97	
5	0.0713	19.06	38.18	57.24	110.54	-53.30	QP	100	107	
6	0.0985	18.85	47.06	65.91	107.74	-41.83	QP	100	0	
7	0.1342	18.82	92.97	111.79	105.05	6.74	QP	100	59	TX

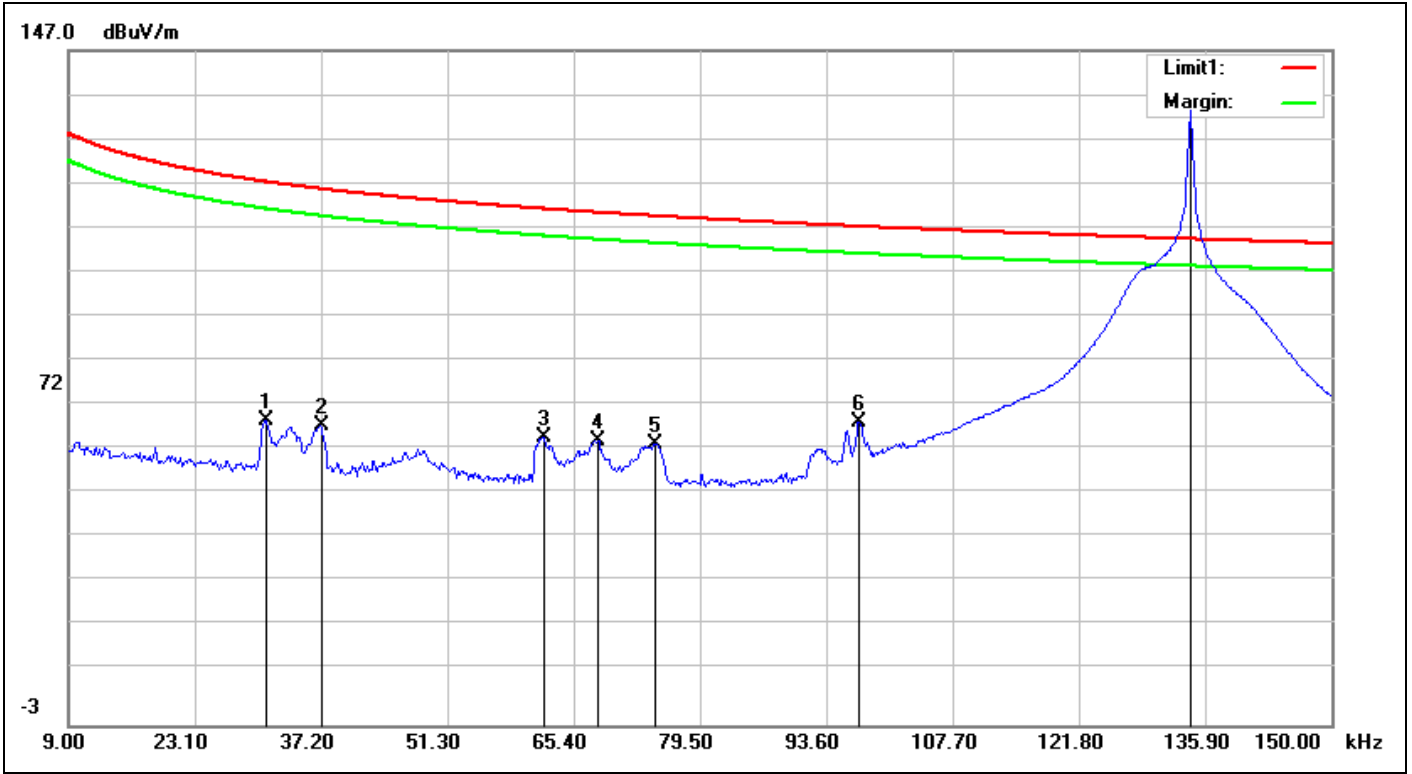


Service No.:	114061212	Test Distance:	3m
Test Standard:	FCC 15.209_9k-30M_3m(dBuV/m)	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/3/16 15:35:51
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX		
	ANT:VP6042		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0293	20.23	42.82	63.05	118.27	-55.22	QP	100	112	
2	0.0345	19.99	42.10	62.09	116.85	-54.76	QP	100	112	
3	0.0584	19.15	40.61	59.76	112.28	-52.52	QP	100	94	
4	0.0634	19.12	39.32	58.44	111.56	-53.12	QP	100	110	
5	0.0698	19.07	39.00	58.07	110.73	-52.66	QP	100	99	
6	0.0956	18.88	44.60	63.48	108.00	-44.52	QP	100	112	
7	0.1342	18.82	95.67	114.49	105.05	9.44	QP	100	46	TX



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Service No.:	114061212	Test Distance:	3m
Test Standard:	FCC 15.209_9k-30M_3m(dBuV/m)	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/3/16 14:26:58
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX		
	ANT:VP6050		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0309	20.17	44.43	64.60	117.81	-53.21	QP	100	101	
2	0.0371	19.87	43.67	63.54	116.22	-52.68	QP	100	101	
3	0.0620	19.12	41.80	60.92	111.76	-50.84	QP	100	101	
4	0.0681	19.09	41.25	60.34	110.94	-50.60	QP	100	107	
5	0.0746	19.03	40.40	59.43	110.15	-50.72	QP	100	93	
6	0.0973	18.86	45.52	64.38	107.84	-43.46	QP	100	213	
7	0.1342	18.82	114.86	133.68	105.05	28.63	QP	100	192	TX

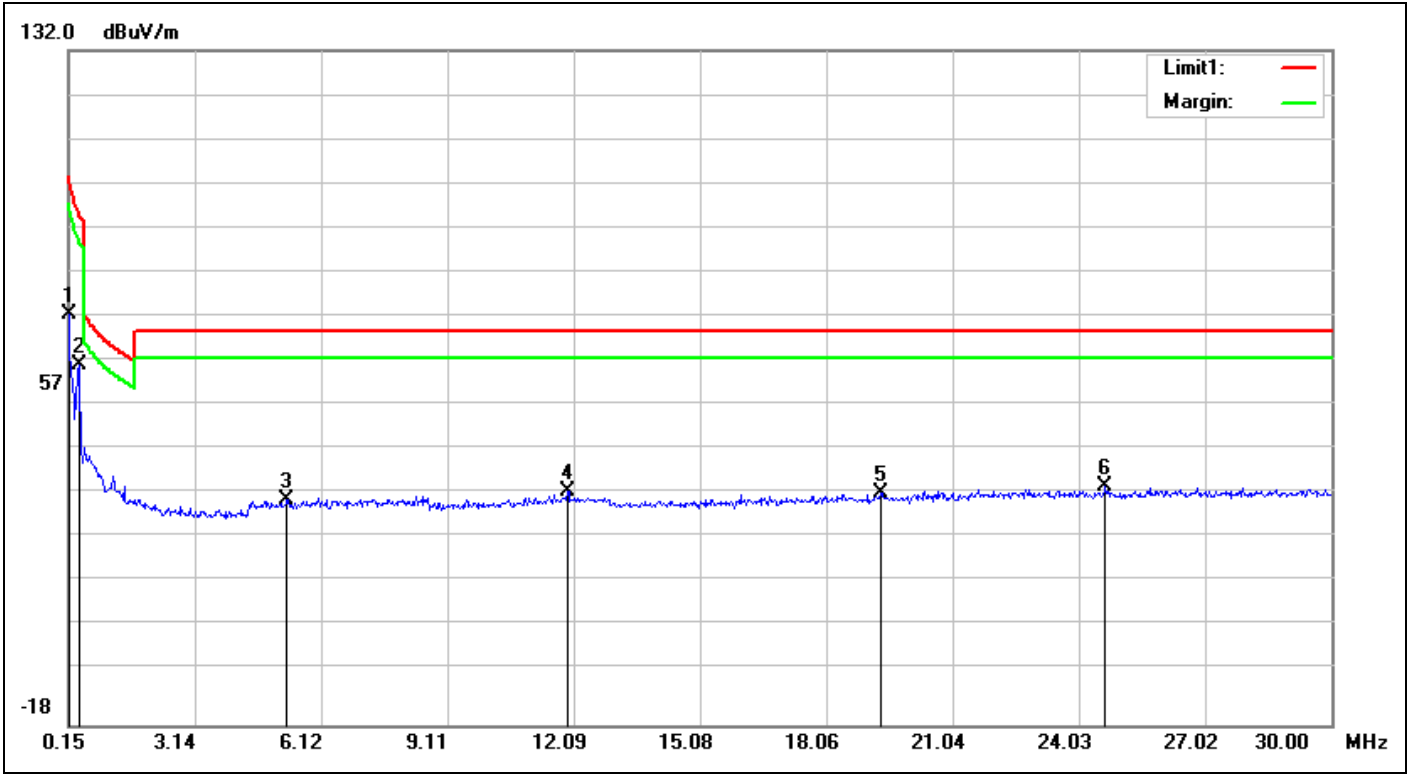
Spurious Emissions, TX Mode, 150k-30M



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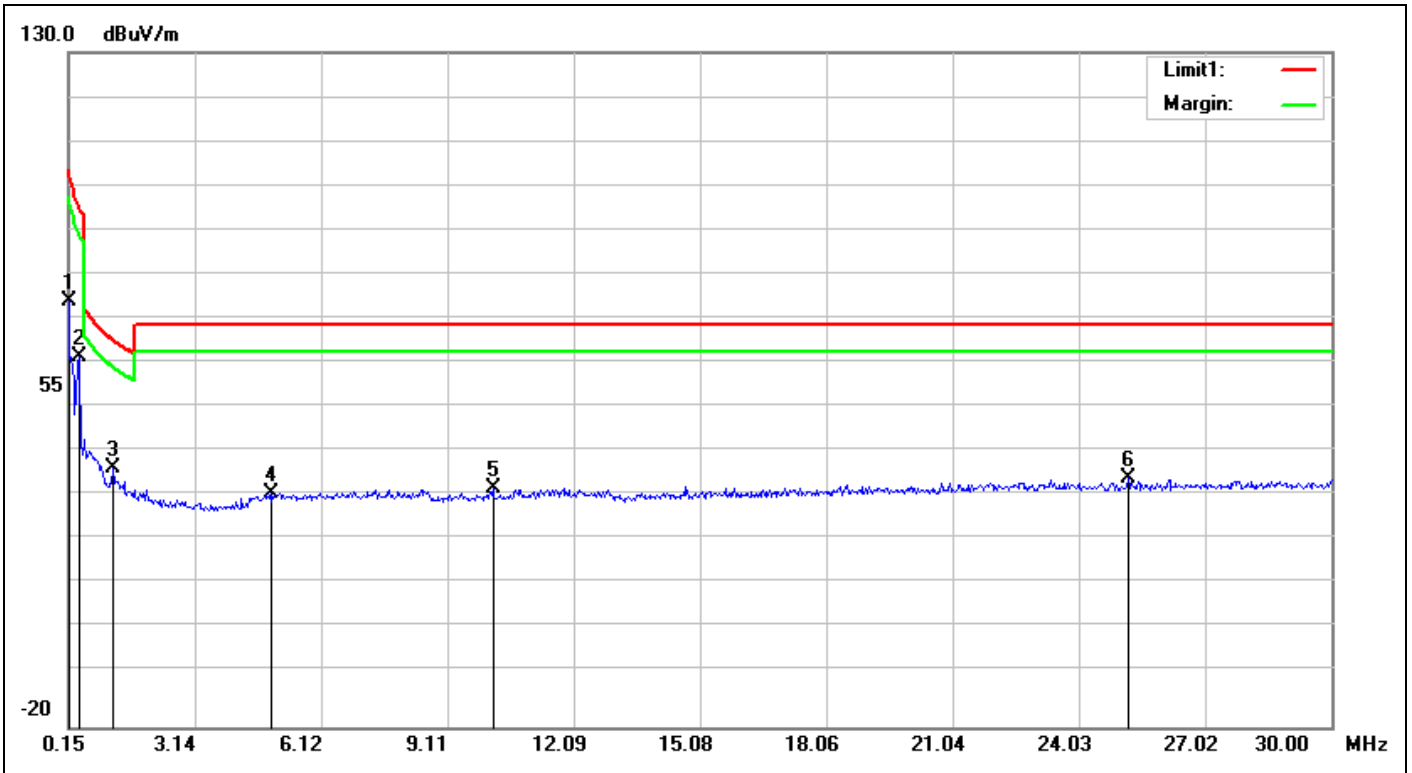
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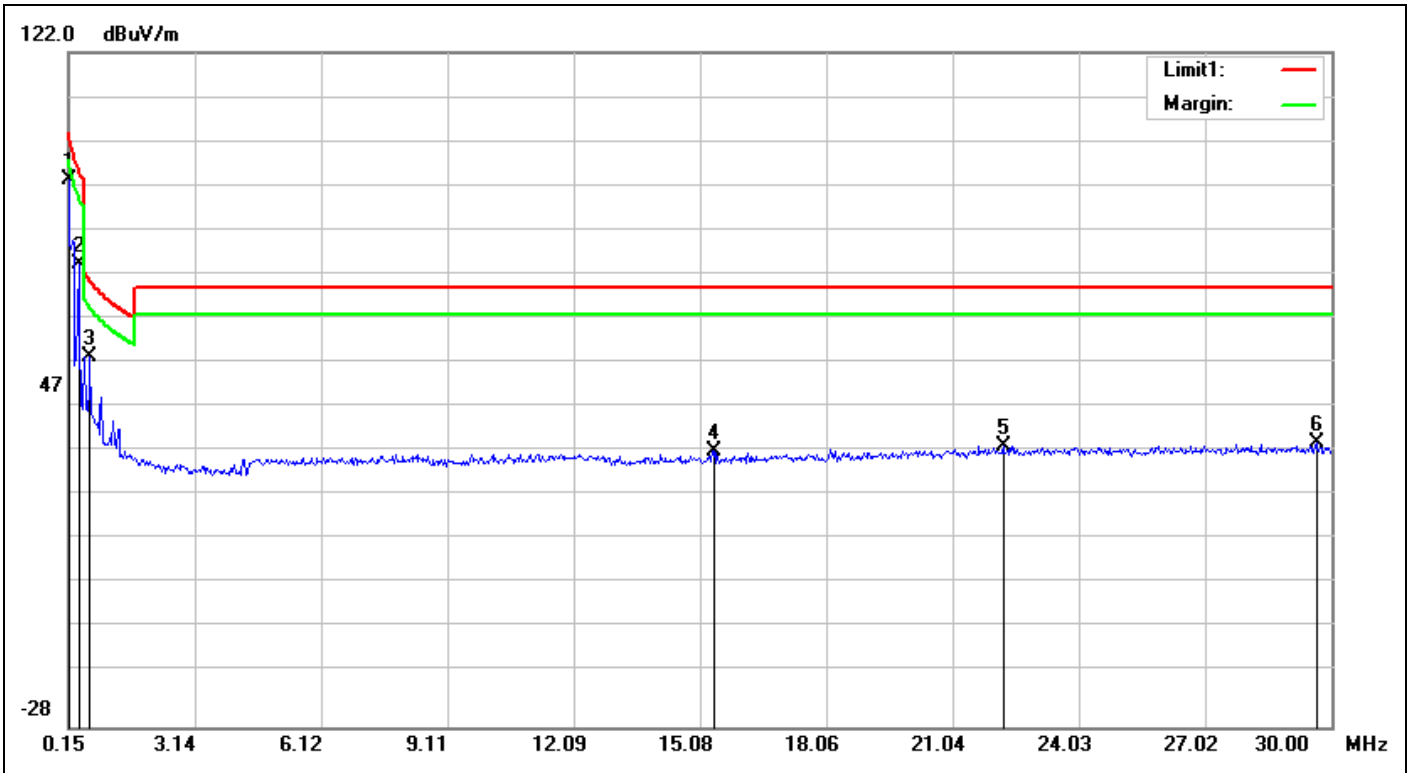
Service No.:	114061212	Test Distance:	3m
Test Standard:	FCC 15.209_9k-30M_3m(dBuV/m)	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/3/16 15:05:25
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX ANT:VP6040		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1500	18.80	54.42	73.22	104.08	-30.86	QP	100	125	
2	0.3888	18.60	43.62	62.22	95.81	-33.59	QP	100	106	
3	5.3141	19.65	12.43	32.08	69.54	-37.46	QP	100	338	
4	11.9408	20.61	13.38	33.99	69.54	-35.55	QP	100	221	
5	19.3436	21.48	12.12	33.60	69.54	-35.94	QP	100	106	
6	24.6569	21.89	13.04	34.93	69.54	-34.61	QP	100	109	



Service No.:	114061212	Test Distance:	3m
Test Standard:	FCC 15.209_9k-30M_3m(dBuV/m)	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/3/16 16:11:31
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX ANT:VP6042		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1500	18.80	55.87	74.67	104.08	-29.41	QP	100	360	
2	0.3888	18.60	43.75	62.35	95.81	-33.46	QP	100	128	
3	1.1948	19.04	18.47	37.51	66.08	-28.57	QP	100	245	
4	4.9559	19.58	12.26	31.84	69.54	-37.70	QP	100	245	
5	10.1796	20.41	12.71	33.12	69.54	-36.42	QP	100	11	
6	25.1942	21.93	13.37	35.30	69.54	-34.24	QP	100	245	



Service No.:	114061212	Test Distance:	3m
Test Standard:	FCC 15.209_9k-30M_3m(dBuV/m)	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/3/16 14:30:16
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX ANT:VP6050		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1500	18.80	74.88	93.68	104.08	-10.40	QP	100	9	
2	0.3888	18.60	56.38	74.98	95.81	-20.83	QP	100	166	
3	0.6575	18.69	35.52	54.21	71.25	-17.04	QP	100	166	
4	15.4034	21.01	12.40	33.41	69.54	-36.13	QP	100	19	
5	22.2390	21.71	12.89	34.60	69.54	-34.94	QP	100	280	
6	29.6418	22.26	12.82	35.08	69.54	-34.46	QP	100	209	

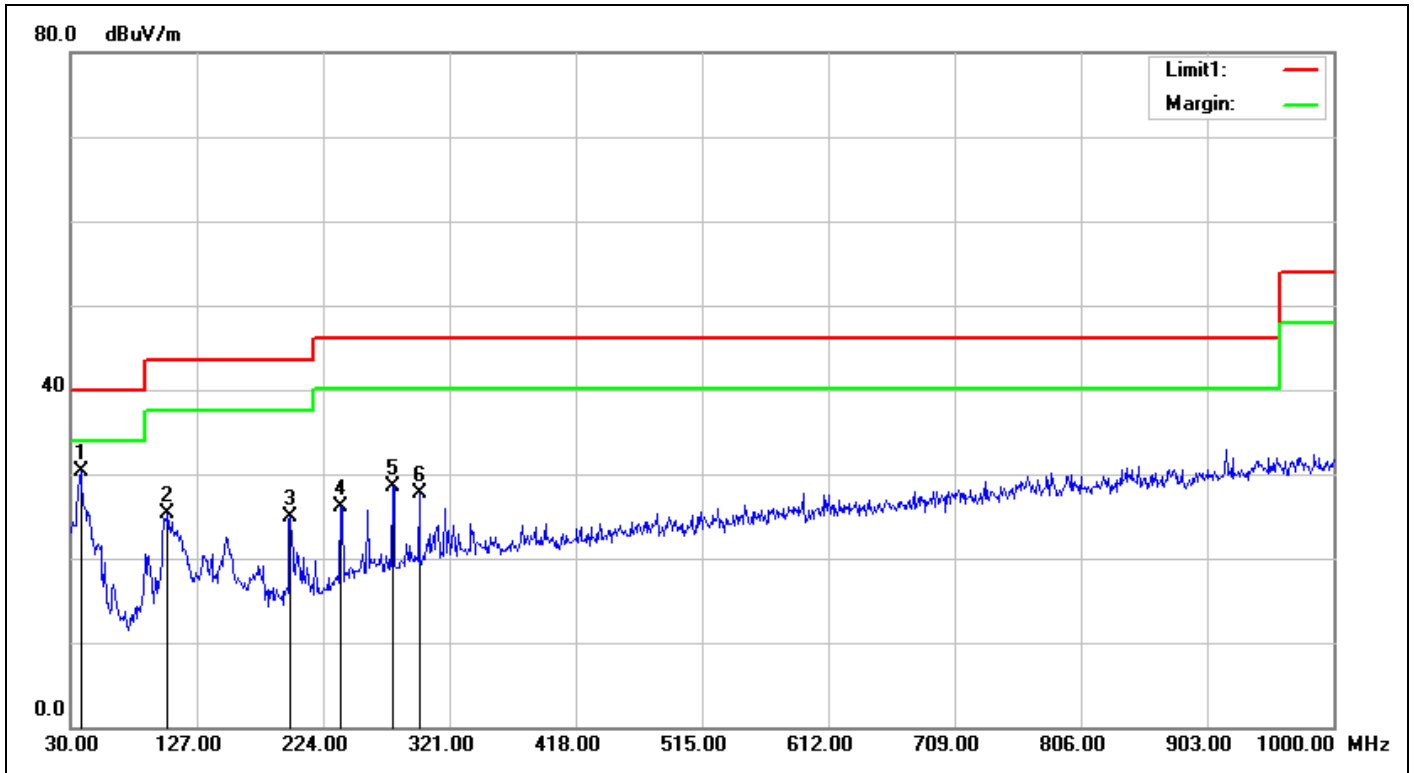
Spurious Emissions, TX Mode, 30M-1G



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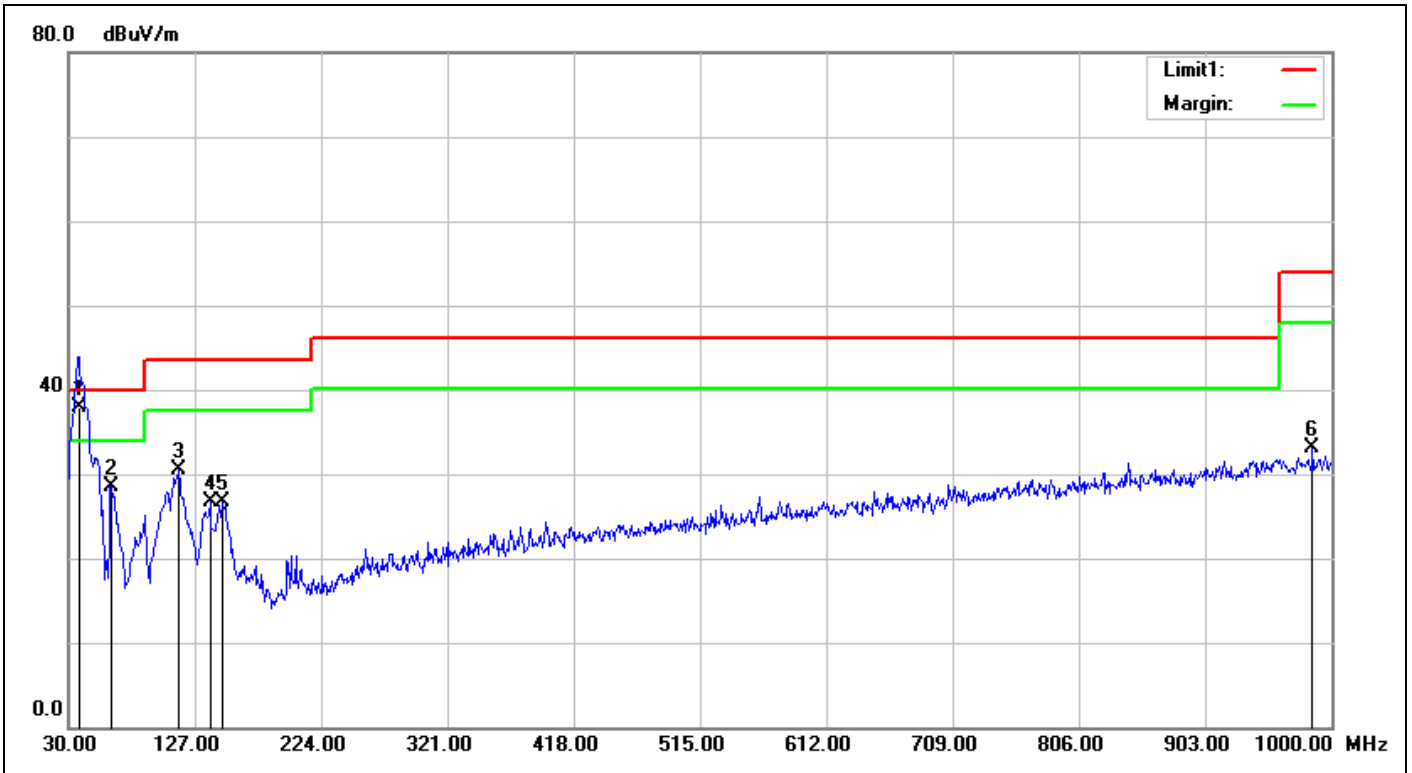


Service No.:	114061212	Test Distance:	3m
Test Standard:	FCC 15.209_30M-40G_3m	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/16 14:46:05
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX ANT:VP6040		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	37.7600	-4.51	34.86	30.35	40.00	-9.65	QP	100	64	
2	104.6900	-8.87	34.11	25.24	43.52	-18.28	QP	100	171	
3	198.7800	-8.98	33.88	24.90	43.52	-18.62	QP	100	160	
4	237.5800	-6.89	32.97	26.08	46.02	-19.94	QP	100	168	
5	277.3500	-5.14	33.74	28.60	46.02	-17.42	QP	100	163	
6	297.7200	-4.54	32.28	27.74	46.02	-18.28	QP	100	149	

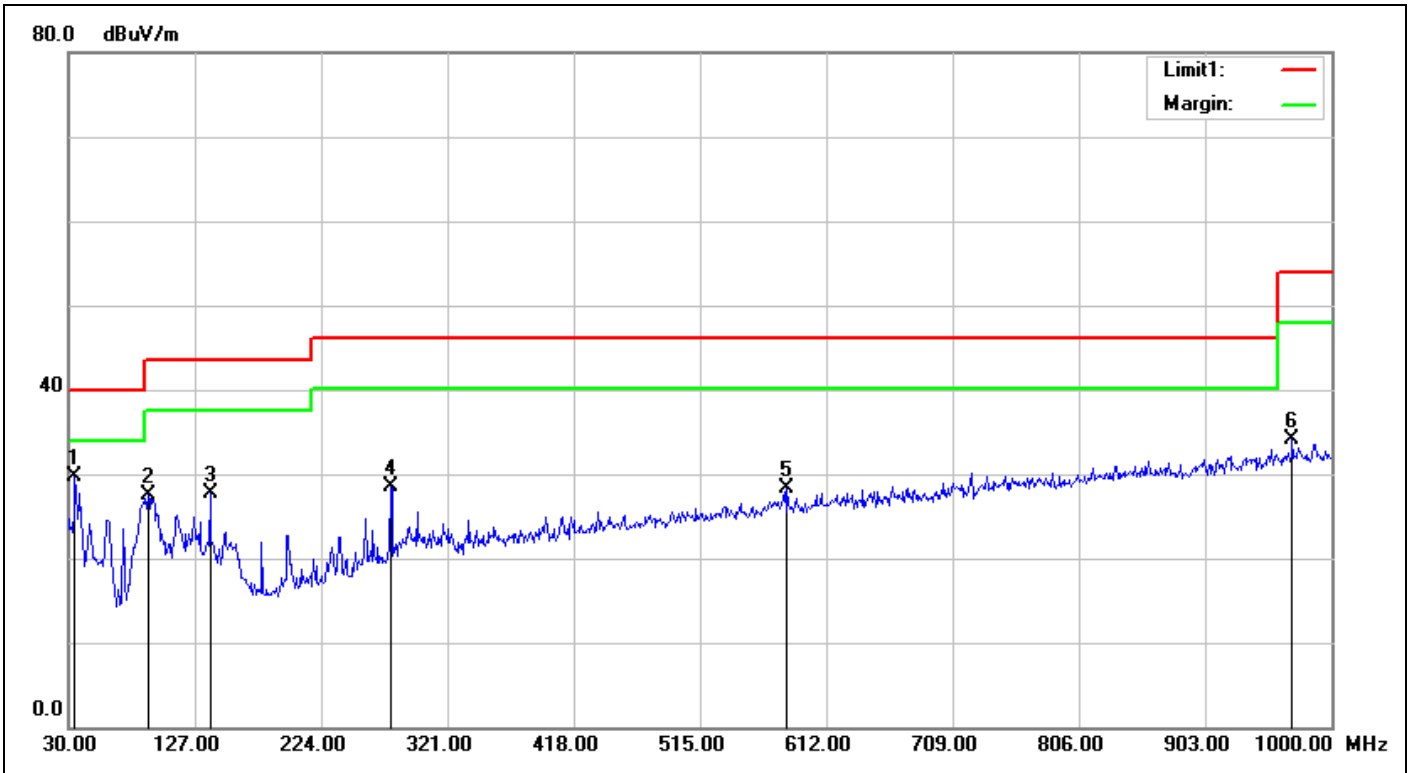


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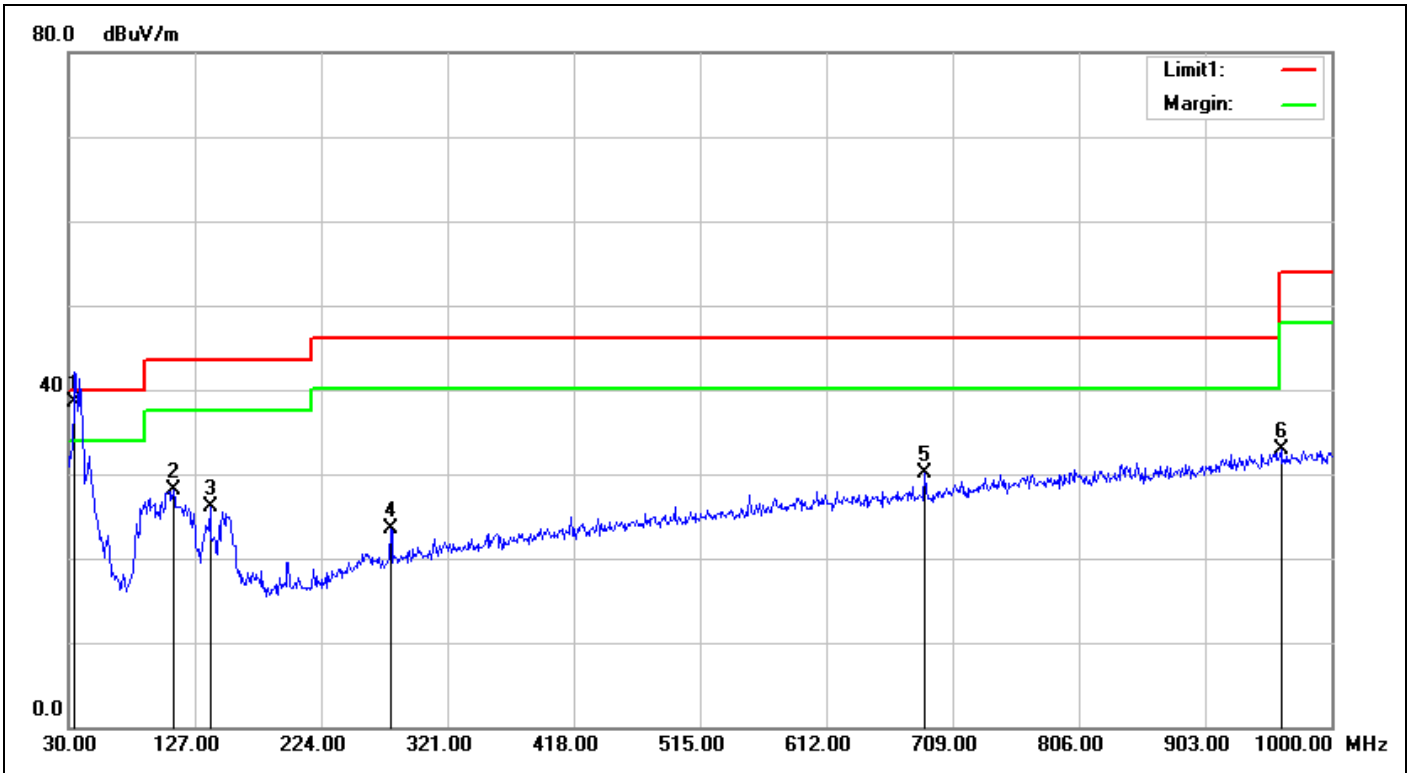
Service No.:	114061212	Test Distance:	3m
Test Standard:	FCC 15.209_30M-40G_3m	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/16 14:47:09
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX ANT:VP6040		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	37.7600	-4.51	42.51	38.00	40.00	-2.00	QP	100	122	
2	62.9800	-13.52	42.01	28.49	40.00	-11.51	QP	100	43	
3	114.3900	-7.82	38.40	30.58	43.52	-12.94	QP	100	229	
4	138.6399	-6.99	33.78	26.79	43.52	-16.73	QP	100	122	
5	148.3400	-7.36	34.04	26.68	43.52	-16.84	QP	100	139	
6	985.4500	5.70	27.50	33.20	54.00	-20.80	QP	100	205	



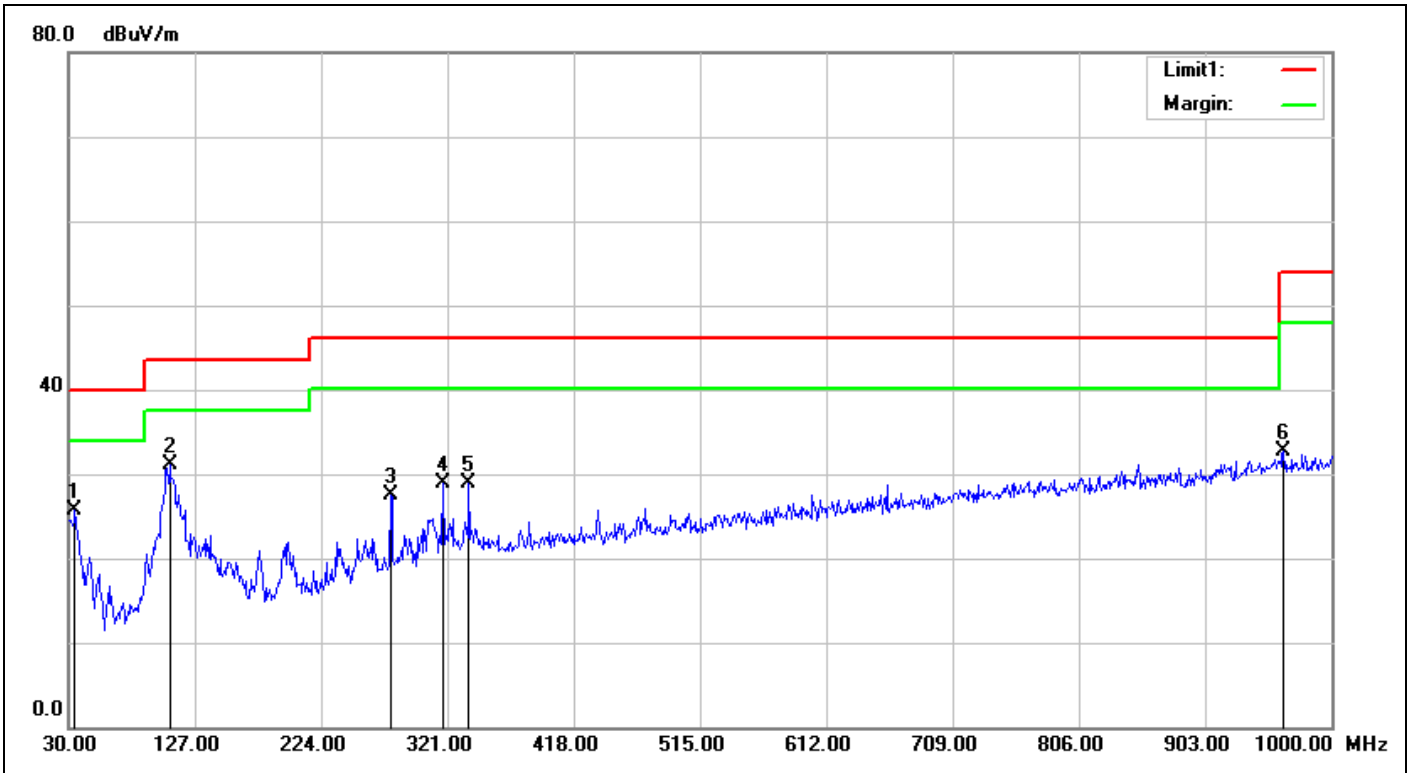
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Test Standard:	FCC 15.209_30M-40G_3m	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/16 15:58:09
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX		
	ANT:VP6042		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	34.8500	-2.84	32.55	29.71	40.00	-10.29	QP	200	128	
2	91.1100	-10.70	38.14	27.44	43.52	-16.08	QP	300	115	
3	138.6399	-6.99	34.73	27.74	43.52	-15.78	QP	200	245	
4	277.3500	-5.14	33.67	28.53	46.02	-17.49	QP	100	115	
5	581.9299	-0.28	28.56	28.28	46.02	-17.74	QP	300	360	
6	969.9300	5.57	28.50	34.07	54.00	-19.93	QP	200	360	



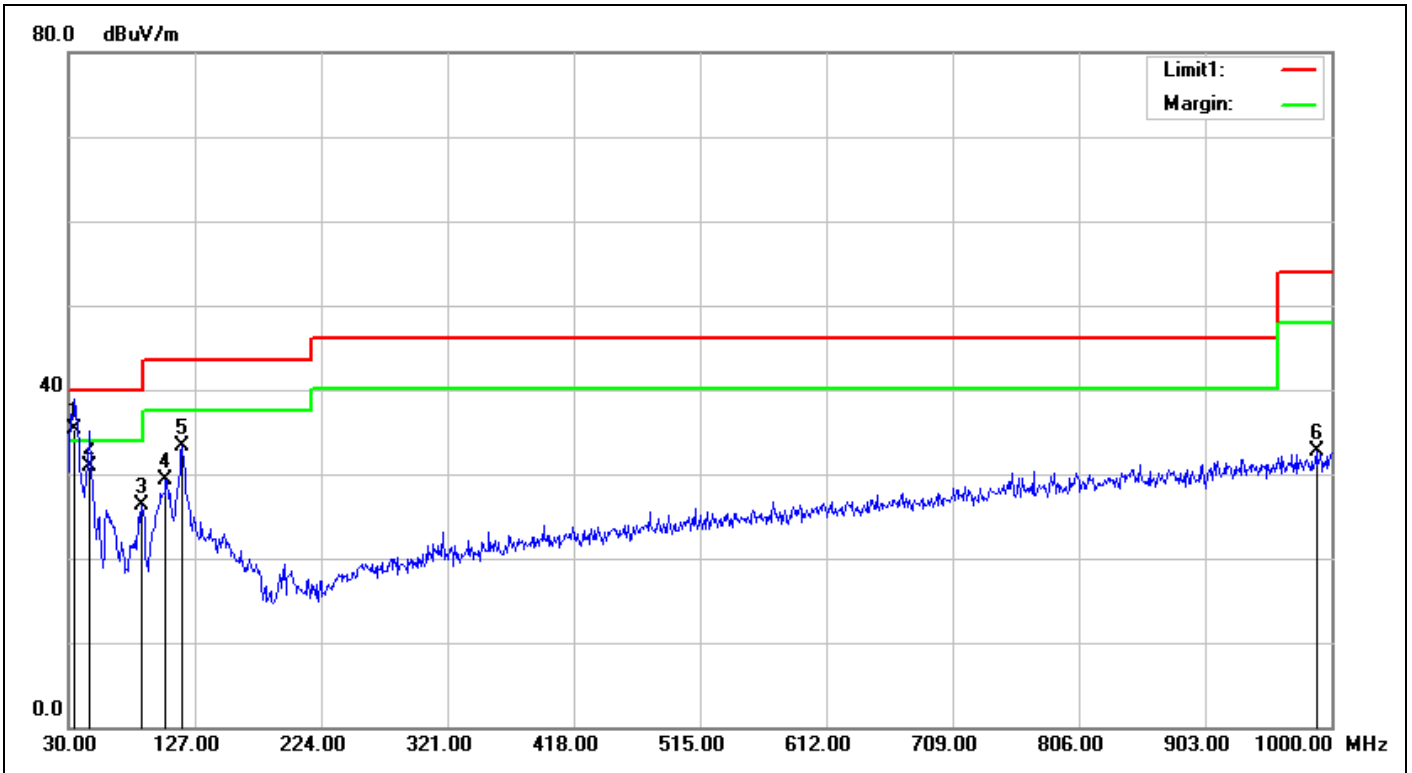
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Test Standard:	FCC 15.209_30M-40G_3m	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/16 16:05:24
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX ANT:VP6042		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	34.8500	-2.84	41.34	38.50	40.00	-1.50	QP	100	245	
2	110.5100	-8.15	36.30	28.15	43.52	-15.37	QP	100	360	
3	138.6400	-6.99	33.11	26.12	43.52	-17.40	QP	100	11	
4	277.3500	-5.14	28.72	23.58	46.02	-22.44	QP	100	129	
5	687.6600	0.94	29.20	30.14	46.02	-15.88	QP	400	360	
6	961.2000	5.48	27.47	32.95	54.00	-21.05	QP	100	245	



Service No.:	114061212	Test Distance:	3m
Test Standard:	FCC 15.209_30M-40G_3m	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/16 14:37:00
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX		
	ANT:VP6050		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	34.8500	-2.84	28.51	25.67	40.00	-14.33	QP	100	98	
2	107.6000	-8.50	39.51	31.01	43.52	-12.51	QP	100	149	
3	277.3500	-5.14	32.57	27.43	46.02	-18.59	QP	100	199	
4	317.1200	-4.13	33.03	28.90	46.02	-17.12	QP	100	240	
5	337.4900	-3.71	32.71	29.00	46.02	-17.02	QP	100	271	
6	963.1400	5.50	27.16	32.66	54.00	-21.34	QP	100	338	



Service No.:	114061212	Test Distance:	3m
Test Standard:	FCC 15.209_30M-40G_3m	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/16 14:38:03
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Transceiver HDP/FDP operating on 134.2k	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	VP1006	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	134.2kHz-TX		
	ANT:VP6050		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	34.8500	-2.84	38.14	35.30	40.00	-4.70	QP	100	139	
2	46.4900	-9.42	40.32	30.90	40.00	-9.10	QP	100	102	
3	86.2600	-11.26	37.60	26.34	40.00	-13.66	QP	100	216	
4	104.6900	-8.87	38.24	29.37	43.52	-14.15	QP	100	253	
5	117.3000	-7.57	40.93	33.36	43.52	-10.16	QP	100	256	
6	988.3600	5.73	27.07	32.80	54.00	-21.20	QP	100	288	

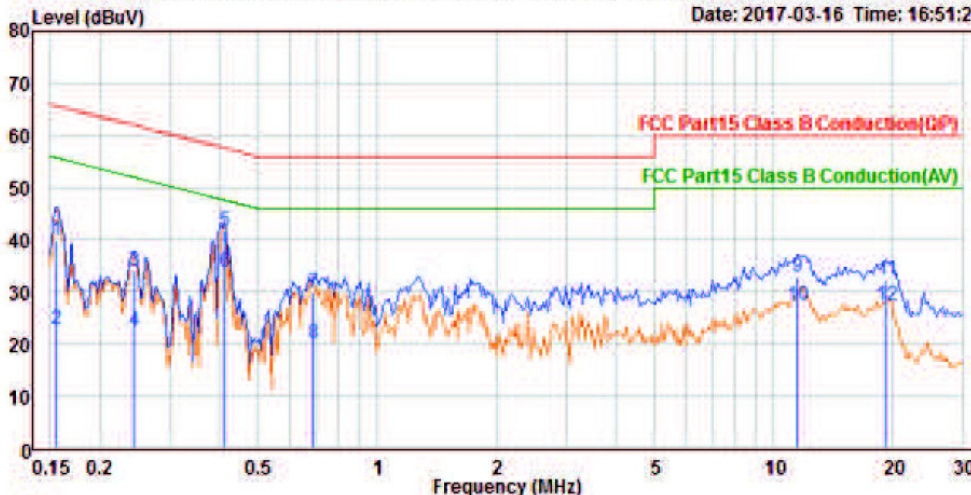
Mains Spurious Emissions



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Date: 2017-03-16 Time: 16:51:23



Trace: 1
 Site : Conduction room
 Condition : FCC Part15 Class B Conduction(QP) neutral
 Test Engineer: Freeman Wang
 Applicant : Nedap
 Product : Transceiver HDP/FDP operating on 134.2kHz
 Model No. : VP1006
 Test Rating : 120V/60Hz
 Tmp/Hum : 21/49
 Memo : ANT:VP6040

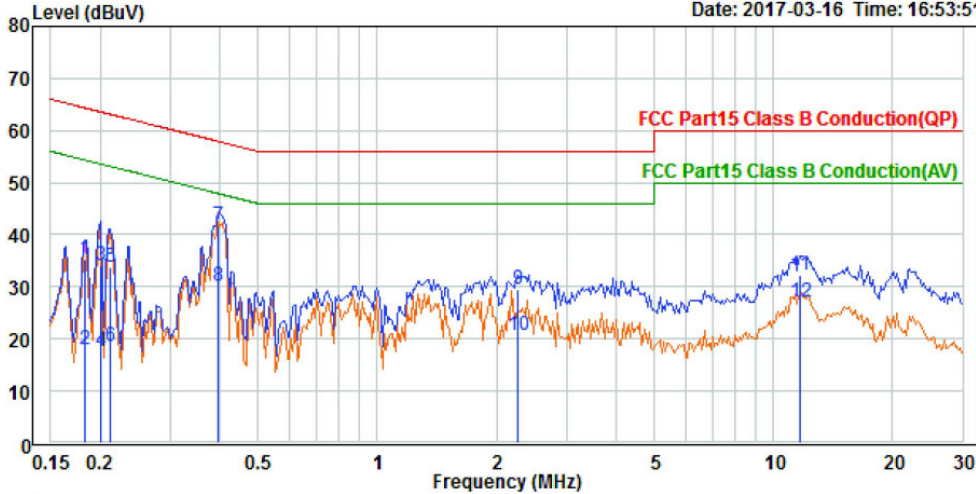
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.155	39.99	30.26	9.73	65.74	-25.75	QP
2	0.155	22.80	13.07	9.73	55.74	-32.94	Average
3	0.244	33.99	24.30	9.69	61.95	-27.96	QP
4	0.244	22.60	12.91	9.69	51.95	-29.35	Average
5	0.410	41.81	32.13	9.68	57.64	-15.83	QP
6	0.410	33.69	24.01	9.68	47.64	-13.95	Average
7	0.690	29.73	20.04	9.69	56.00	-26.27	QP
8	0.690	19.97	10.28	9.69	46.00	-26.03	Average
9	11.438	32.99	23.14	9.85	60.00	-27.01	QP
10	11.438	27.42	17.57	9.85	50.00	-22.58	Average
11	19.224	32.38	22.46	9.92	60.00	-27.62	QP
12	19.224	27.25	17.33	9.92	50.00	-22.75	Average



TUV Taiwan
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Date: 2017-03-16 Time: 16:53:51



Trace: 1

Site : Conduction room
 Condition : FCC Part15 Class B Conduction(QP) line1
 Test Engineer: Freeman Wang
 Applicant : Nedap
 Product : Transceiver HDP/FDP operating on 134.2kHz
 Model No. : VP1006
 Test Rating : 120V/60Hz
 Tmp/Hum : 21/49
 Memo : ANT:VP6040

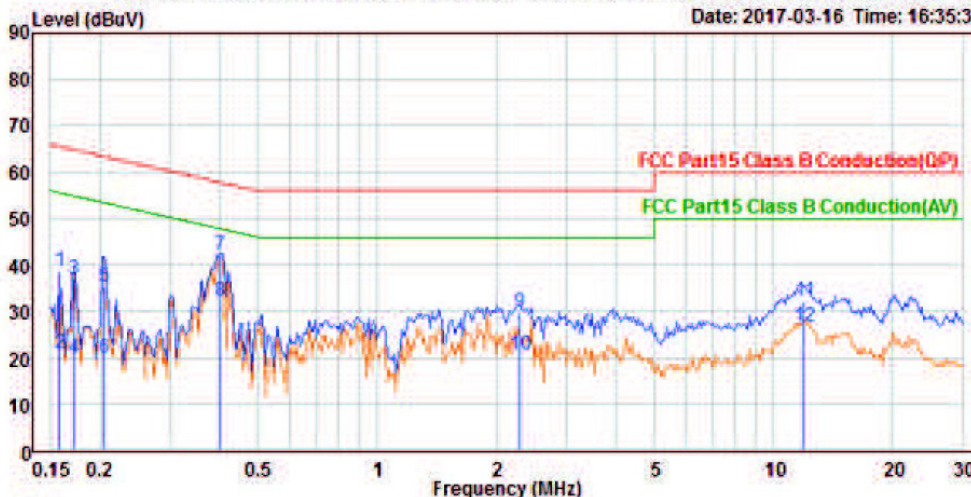
	Freq	Level	Read Level	Limit Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.183	35.26	25.50	9.76	64.33	-29.07	QP
2	0.183	18.07	8.31	9.76	54.33	-36.26	Average
3	0.200	34.08	24.32	9.76	63.62	-29.54	QP
4	0.200	17.76	8.00	9.76	53.62	-35.86	Average
5	0.213	33.91	24.15	9.76	63.10	-29.19	QP
6	0.213	18.58	8.82	9.76	53.10	-34.52	Average
7	0.398	41.78	32.03	9.75	57.90	-16.12	QP
8	0.398	30.23	20.48	9.75	47.90	-17.67	Average
9	2.261	29.46	19.68	9.78	56.00	-26.54	QP
10	2.261	20.57	10.79	9.78	46.00	-25.43	Average
11	11.683	32.20	22.32	9.88	60.00	-27.80	QP
12	11.683	27.00	17.12	9.88	50.00	-23.00	Average



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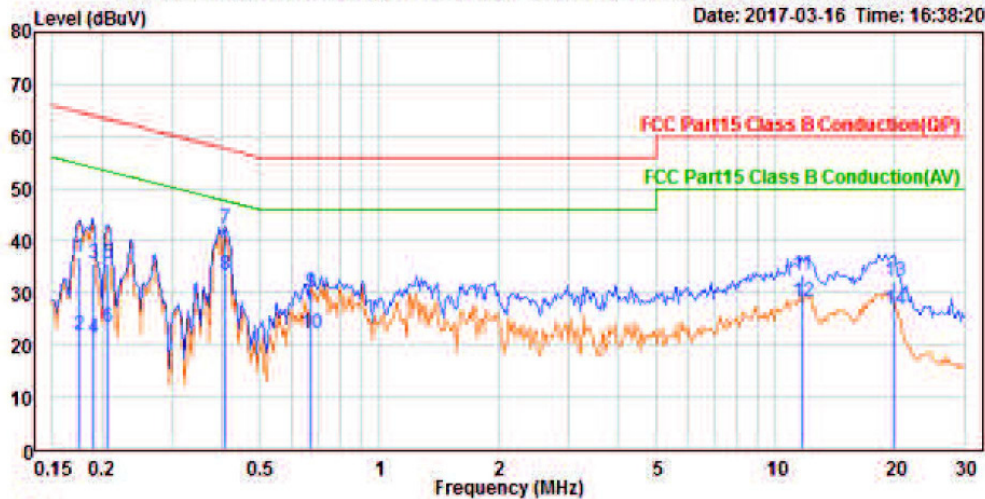


Trace: 1
 Site : Conduction room
 Condition : FCC Part15 Class B Conduction(QP) line1
 Test Engineer: Freeman Wang
 Applicant : Nedap
 Product : Transceiver HDP/FDP operating on 134.2kHz
 Model No. : VP1006
 Test Rating : 120V/60Hz
 Tmp/Hum : 21/49
 Memo : ANT:VP6042

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.158	38.79	29.01	9.78	65.56	-26.77	QP
2	0.158	21.00	11.22	9.78	55.56	-34.56	Average
3	0.172	36.81	27.03	9.78	64.86	-28.05	QP
4	0.172	19.84	10.06	9.78	54.86	-35.02	Average
5	0.204	35.08	25.32	9.76	63.45	-28.37	QP
6	0.204	19.96	10.20	9.76	53.45	-33.49	Average
7	0.402	42.20	32.45	9.75	57.81	-15.61	QP
8	0.402	32.01	22.26	9.75	47.81	-15.80	Average
9	2.285	29.82	20.04	9.78	56.00	-26.18	QP
10	2.285	20.57	10.79	9.78	46.00	-25.43	Average
11	11.933	32.22	22.34	9.88	60.00	-27.78	QP
12	11.933	26.78	16.90	9.88	50.00	-23.22	Average



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Trace: 1
 Site : Conduction room
 Condition : FCC Part15 Class B Conduction(QP) neutral
 Test Engineer: Freeman Wang
 Applicant : Nedap
 Product : Transceiver HDP/FDP operating on 134.2kHz
 Model No. : VP1006
 Test Rating : 120V/60Hz
 Tmp/Hum : 21/49
 Memo : ANT:VP6042

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.174	36.89	27.18	9.71	64.77	-27.88	QP
2	0.174	21.81	12.10	9.71	54.77	-32.96	Average
3	0.189	35.56	25.86	9.70	64.06	-28.50	QP
4	0.189	21.14	11.44	9.70	54.06	-32.92	Average
5	0.206	35.58	25.89	9.69	63.36	-27.78	QP
6	0.206	23.36	13.67	9.69	53.36	-30.00	Average
7	0.406	42.19	32.51	9.68	57.73	-15.54	QP
8	0.406	33.58	23.90	9.68	47.73	-14.15	Average
9	0.668	30.14	20.45	9.69	56.00	-25.86	QP
10	0.668	22.29	12.60	9.69	46.00	-23.71	Average
11	11.683	33.46	23.61	9.85	60.00	-26.54	QP
12	11.683	28.32	18.47	9.85	50.00	-21.68	Average
13	19.845	32.33	22.37	9.96	60.00	-27.67	QP
14	19.845	26.83	16.87	9.96	50.00	-23.17	Average