

Test Report No.50140648 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50140648AppendixD)

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Emissions, Fundamental

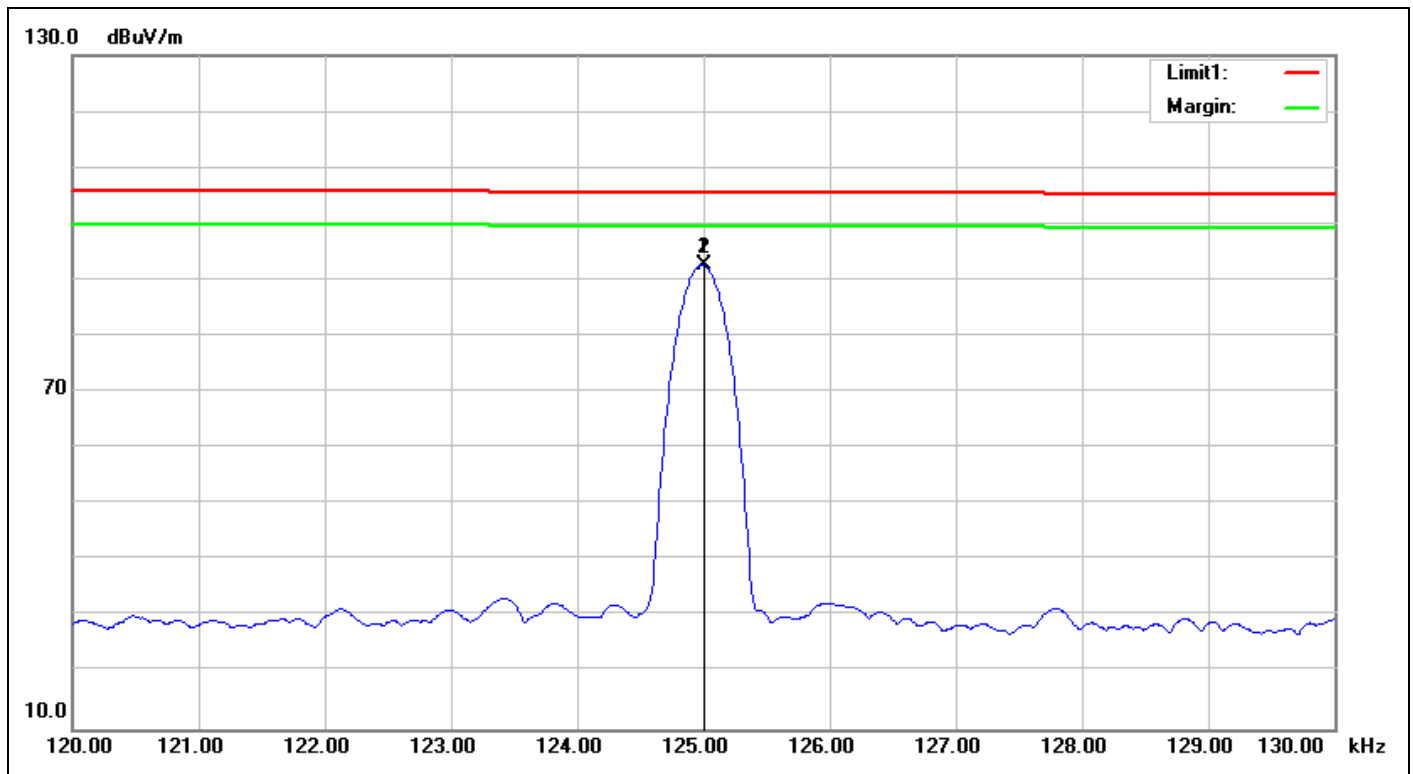


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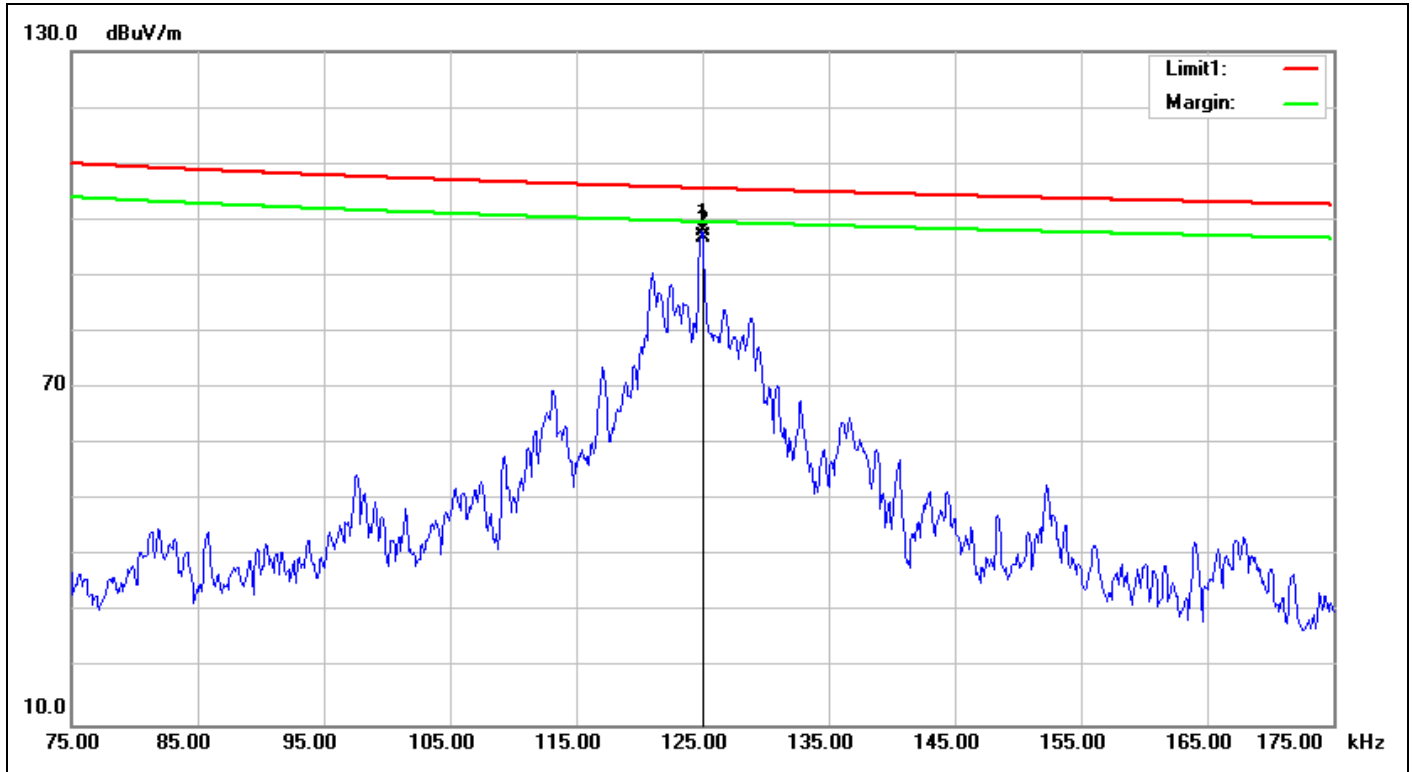
IMMO



Service No.:	114075529	Test Distance:	3m
Test Standard:	NCC 2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/4/10 11:09:38
Applicant:	Visteon Electronics Germany GmbH	Test Rating:	DC 12V
Product:	Vehicle body domain controller	Temp.(°C)/Hum.(%)	23.6(°C)/54%
Model No.:	BDC-03	Test Engineer:	Kai Wang
Test Mode:	125k-Tx		
Remark:	immob		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1250	19.10	73.57	92.67	105.59	-12.92	Peak	100	133	Tx
2	0.1250	19.10	73.50	92.60	105.59	-12.99	AVG	100	133	Tx

KEYLESS



Service No.:	114075529	Test Distance:	3m
Test Standard:	NCC 2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/4/10 09:31:26
Applicant:	Visteon Electronics Germany GmbH	Test Rating:	DC 12V
Product:	Vehicle body domain controller	Temp.(°C)/Hum.(%):	23.6(°C)/54%
Model No.:	BDC-03	Test Engineer:	Kai Wang
Test Mode:	125k-Tx		
Remark:	keyless		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1250	19.10	78.99	98.09	105.59	-7.50	Peak	100	149	Tx
2	0.1250	19.10	77.80	96.90	105.59	-8.69	AVG	100	149	Tx

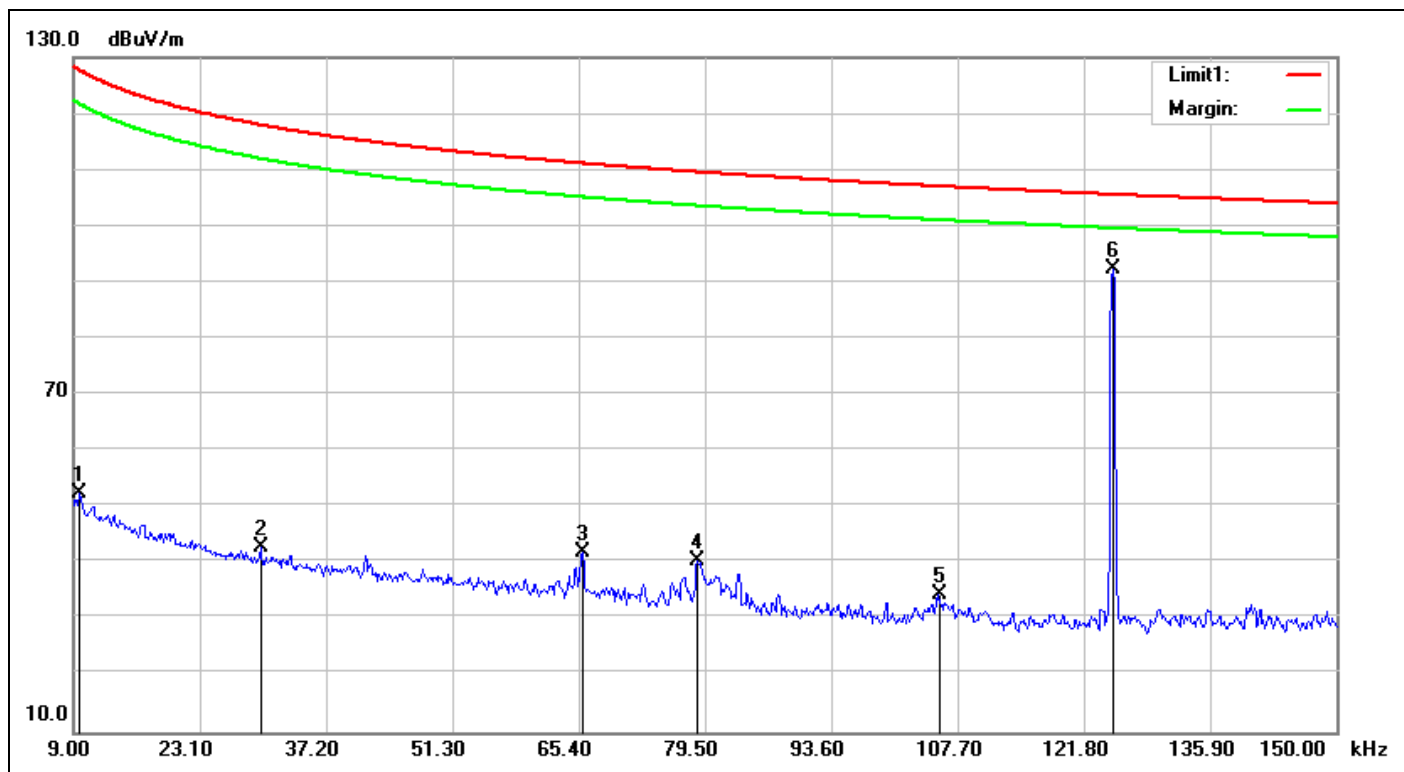
Spurious Emissions, TX Mode, 9K-30M



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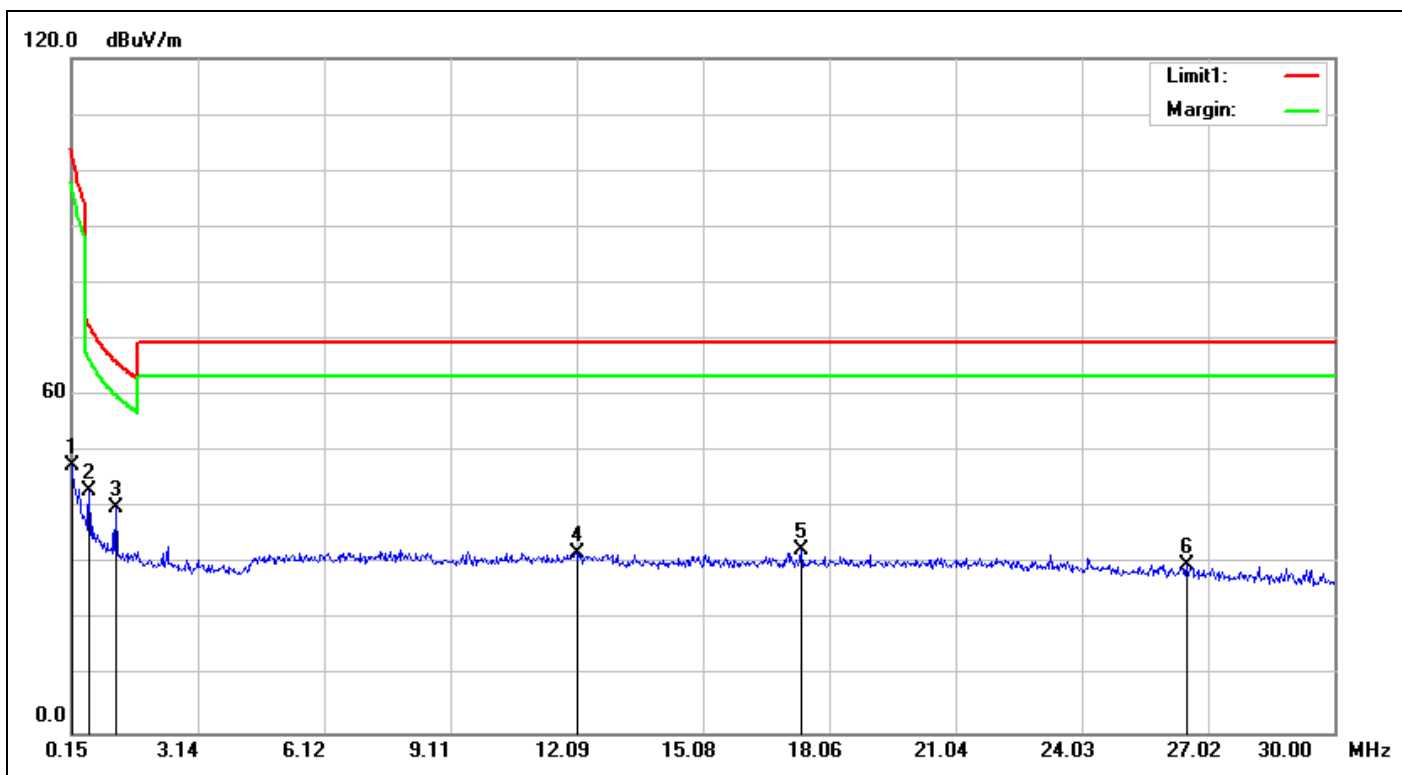
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Service No.:	114075529	Test Distance:	3m
Test Standard:	NCC 2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/4/10 10:48:28
Applicant:	Visteon Electronics Germany GmbH	Test Rating:	DC 12V
Product:	Vehicle body domain controller	Temp.(°C)/Hum.(%):	23.6(°C)/54%
Model No.:	BDC-03	Test Engineer:	Kai Wang
Test Mode:	125k-Tx		
Remark:	immob		

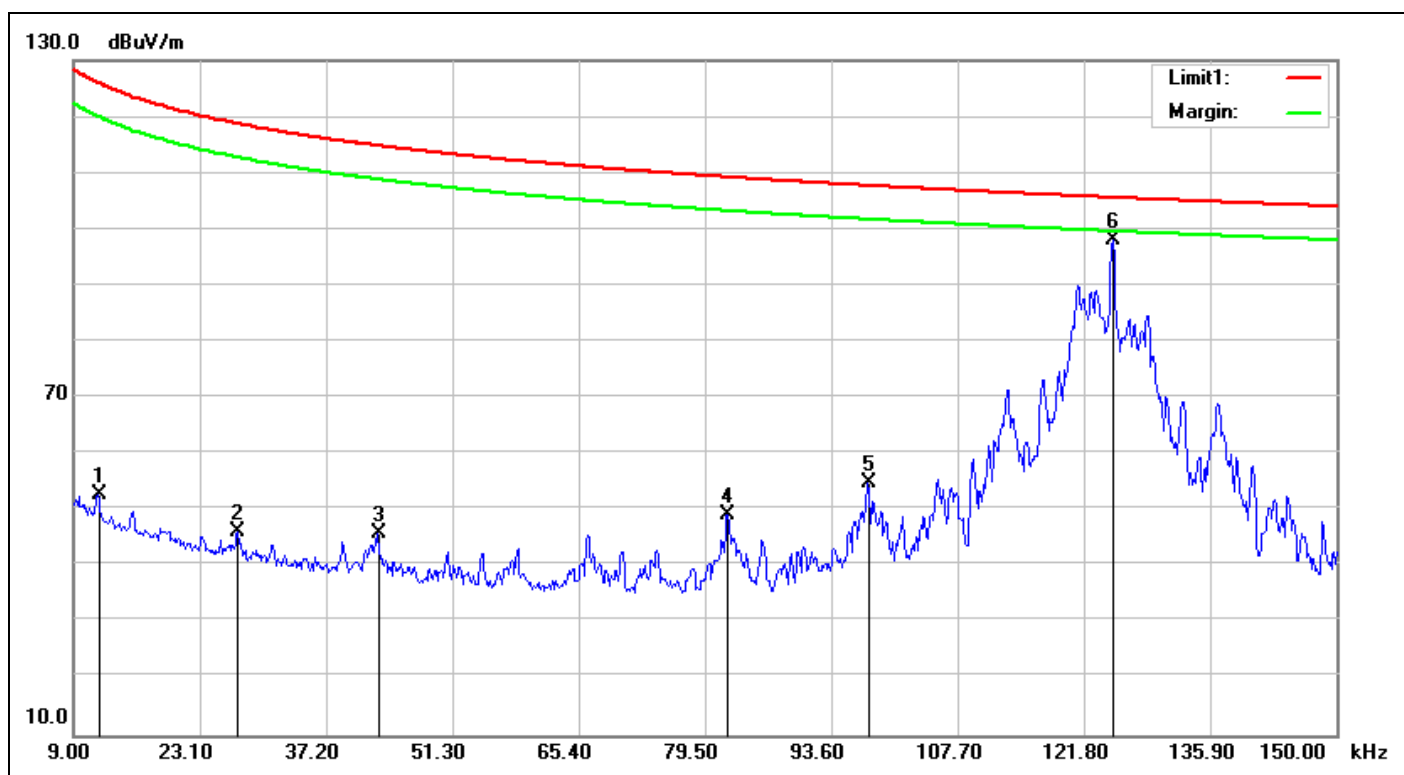
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0097	19.83	32.58	52.41	127.66	-75.25	QP	100	229	
2	0.0298	20.13	22.63	42.76	117.97	-75.21	QP	100	96	
3	0.0658	19.33	22.49	41.82	111.13	-69.31	QP	100	333	
4	0.0786	19.26	21.07	40.33	109.60	-69.27	QP	100	202	
5	0.1054	19.12	15.27	34.39	107.06	-72.67	QP	100	181	
6	0.1250	19.10	73.36	92.46	105.59	-13.13	QP	100	133	Tx

Spurious Emissions, TX Mode, 9K-30M



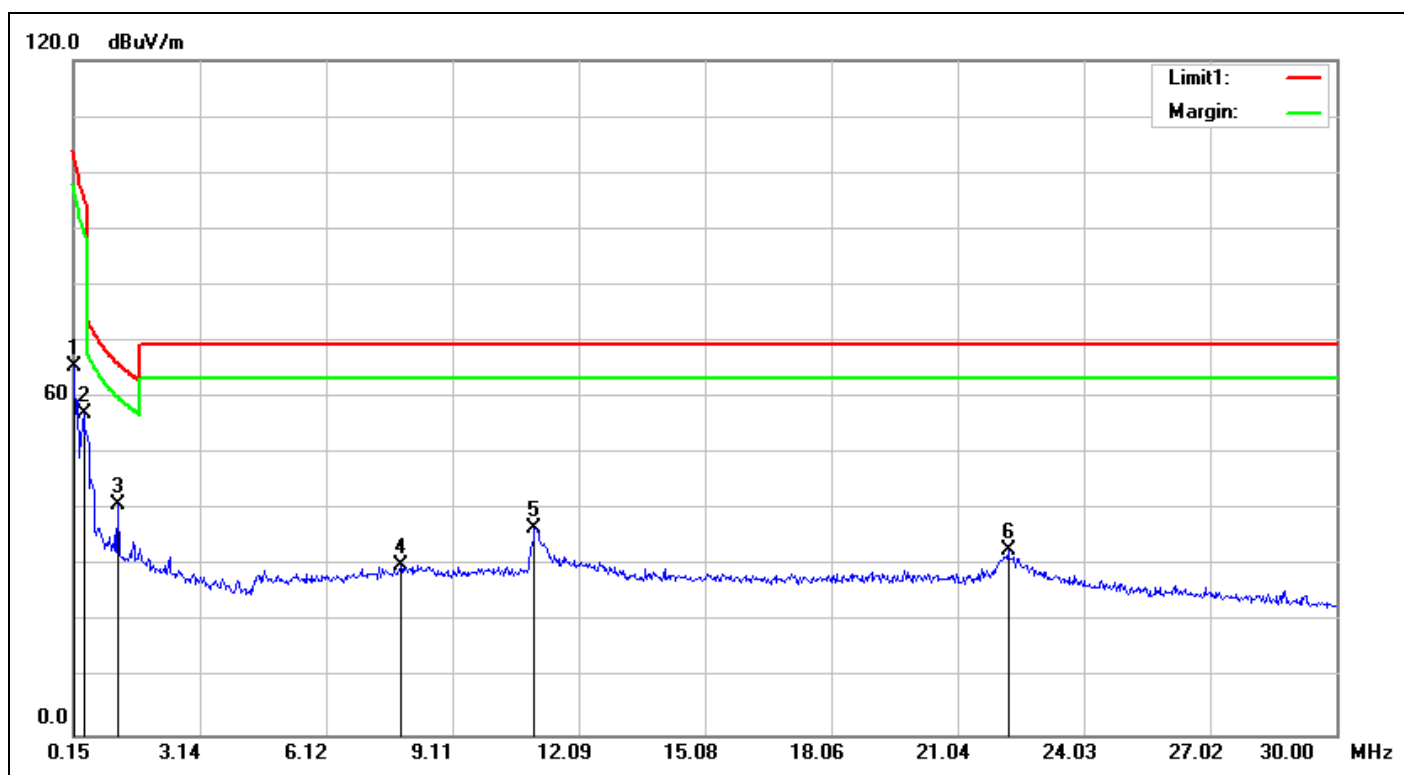
Service No.:	114075529	Test Distance:	3m
Test Standard:	NCC 2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/4/10 10:57:33
Applicant:	Visteon Electronics Germany GmbH	Test Rating:	DC 12V
Product:	Vehicle body domain controller	Temp.(°C)/Hum.(%)	23.6(°C)/54%
Model No.:	BDC-03	Test Engineer:	Kai Wang
Test Mode:	125k-Tx		
Remark:	immob		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1500	19.08	28.53	47.61	104.02	-56.41	QP	100	186	
2	0.5679	18.87	24.05	42.92	72.52	-29.60	QP	100	205	
3	1.1947	18.93	21.14	40.07	66.08	-26.01	QP	100	253	
4	12.0900	20.59	11.48	32.07	69.50	-37.43	QP	100	241	
5	17.4033	21.53	10.94	32.47	69.50	-37.03	QP	100	59	
6	26.5075	22.42	7.42	29.84	69.50	-39.66	QP	100	227	



Service No.:	114075529	Test Distance:	3m
Test Standard:	NCC 2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/4/10 09:17:28
Applicant:	Visteon Electronics Germany GmbH	Test Rating:	DC 12V
Product:	Vehicle body domain controller	Temp.(°C)/Hum.(%):	23.6(°C)/54%
Model No.:	BDC-03	Test Engineer:	Kai Wang
Test Mode:	125k-Tx		
Remark:	keyless		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0117	19.95	32.85	52.80	126.04	-73.24	QP	100	133	
2	0.0273	20.10	25.94	46.04	118.73	-72.69	QP	100	163	
3	0.0430	19.67	26.23	45.90	114.80	-68.90	QP	100	158	
4	0.0820	19.24	29.96	49.20	109.23	-60.03	QP	100	160	
5	0.0977	19.14	35.81	54.95	107.72	-52.77	QP	100	155	
6	0.1250	19.10	79.02	98.12	105.59	-7.47	QP	100	149	Tx



Service No.:	114075529	Test Distance:	3m
Test Standard:	NCC 2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/4/10 09:42:45
Applicant:	Visteon Electronics Germany GmbH	Test Rating:	DC 12V
Product:	Vehicle body domain controller	Temp.(°C)/Hum.(%)	23.6(°C)/54%
Model No.:	BDC-03	Test Engineer:	Kai Wang
Test Mode:	125k-Tx		
Remark:	keyless		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1500	19.08	46.61	65.69	104.02	-38.33	QP	100	146	
2	0.3888	18.91	38.34	57.25	95.80	-38.55	QP	100	35	
3	1.1947	18.93	22.12	41.05	66.08	-25.03	QP	100	259	
4	7.8811	20.02	10.26	30.28	69.50	-39.22	QP	100	232	
5	11.0452	20.41	16.40	36.81	69.50	-32.69	QP	100	129	
6	22.2390	22.13	10.74	32.87	69.50	-36.63	QP	100	309	

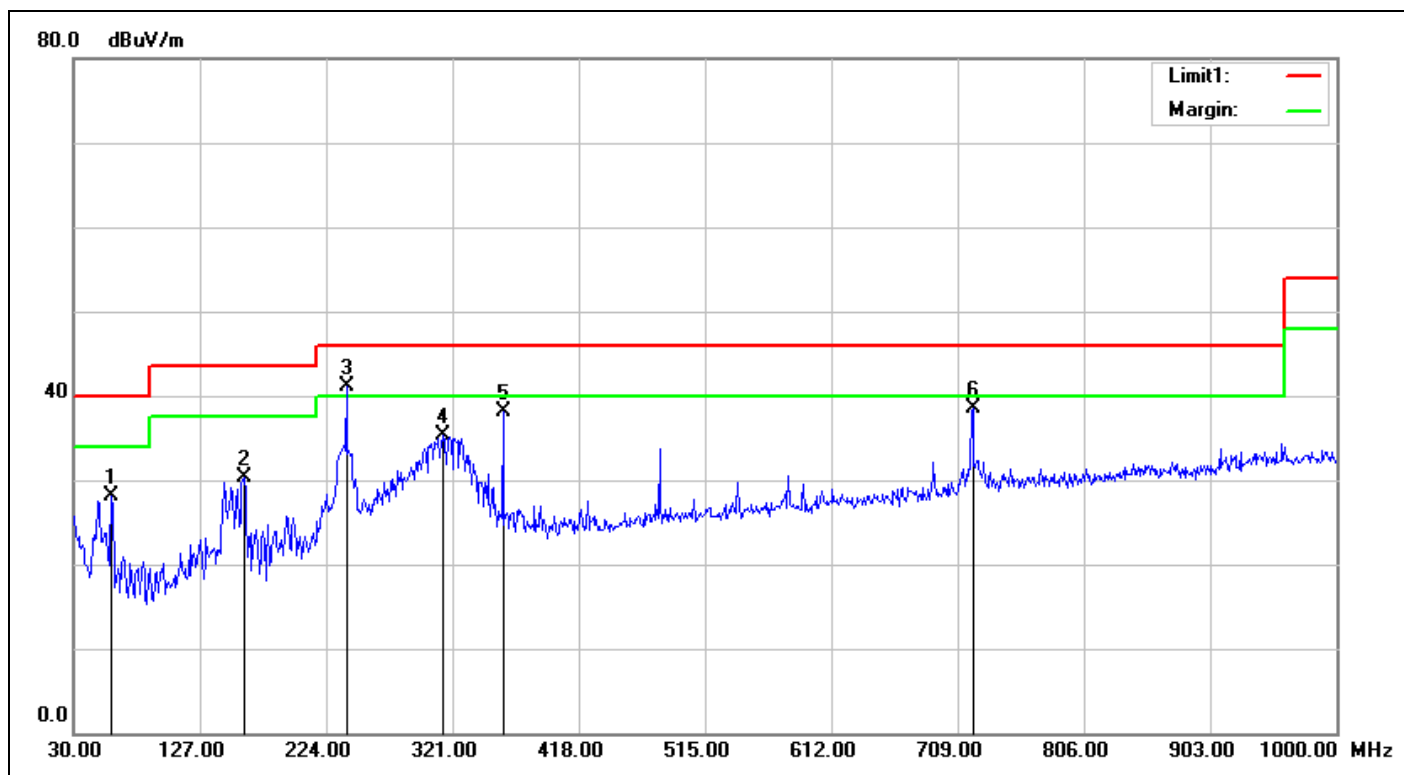
Spurious Emissions, TX Mode, 30M-1G



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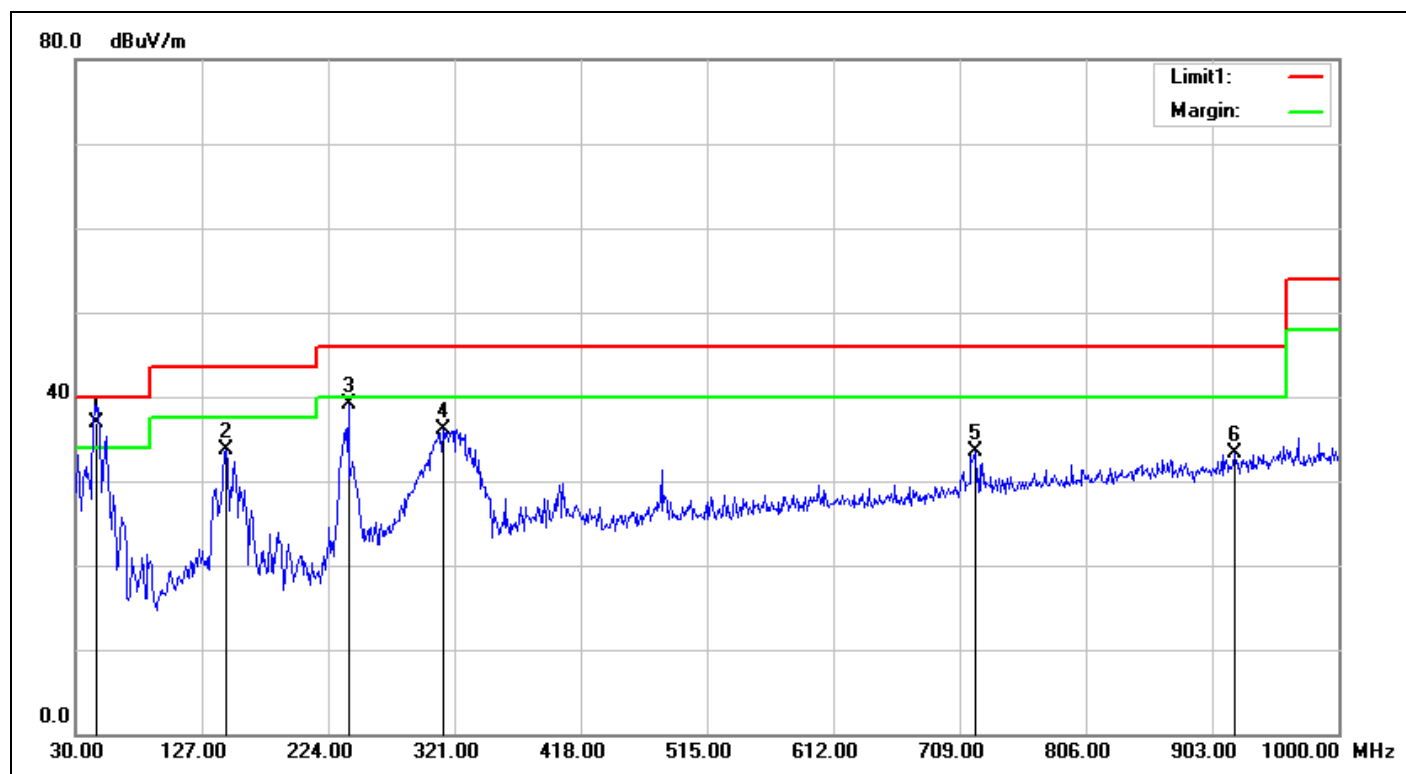
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Service No.:	114075529	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/10 10:25:02
Applicant:	Visteon Electronics Germany GmbH	Test Rating:	DC 12V
Product:	Vehicle body domain controller	Temp.(°C)/Hum.(%)	23.6(°C)/54%
Model No.:	BDC-03	Test Engineer:	Kai Wang
Test Mode:	125k-Tx		
Remark:	immob		

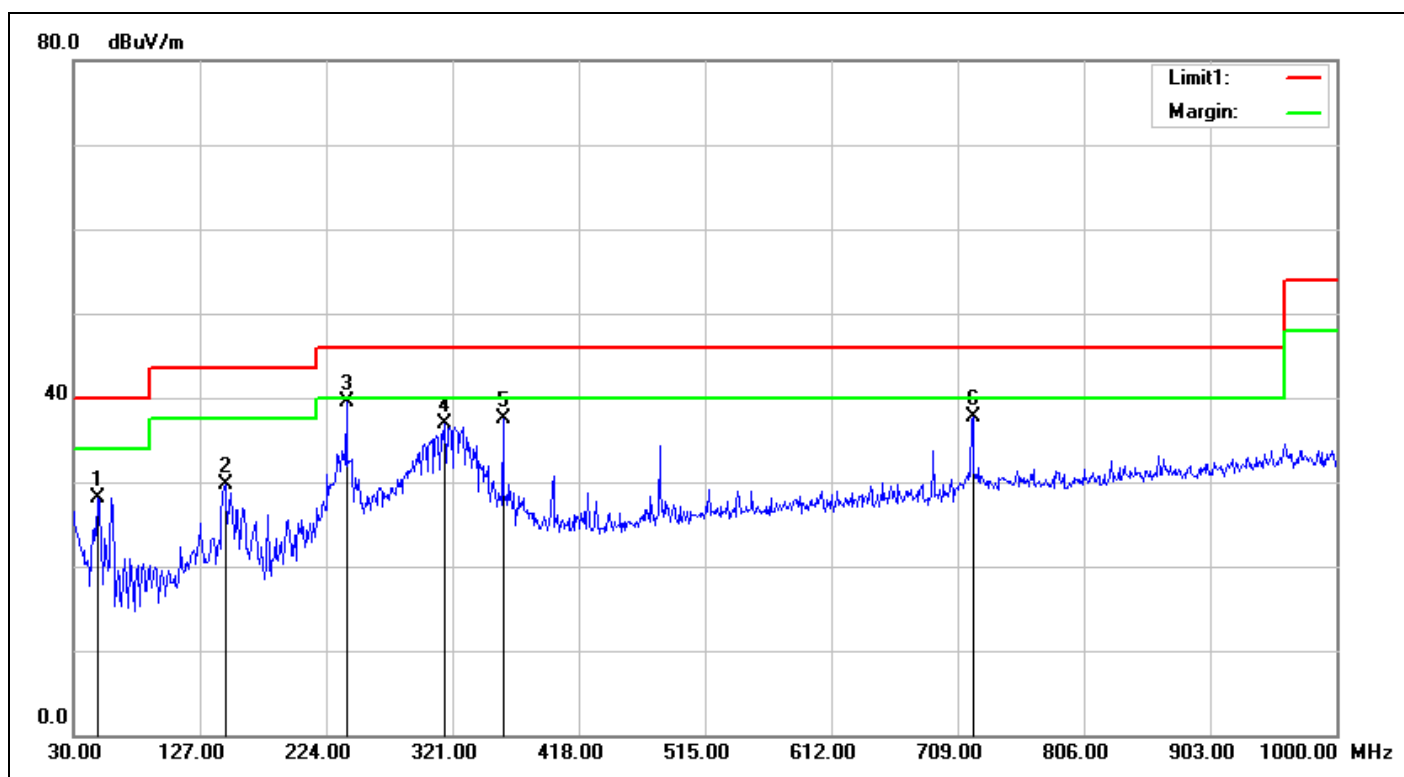
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	59.1000	-13.56	41.72	28.16	40.00	-11.84	QP	300	158	
2	160.9499	-8.16	38.47	30.31	43.50	-13.19	QP	300	224	
3	239.5200	-6.85	47.97	41.12	46.00	-4.88	QP	162	352	
4	314.2099	-4.21	39.47	35.26	46.00	-10.74	QP	100	179	
5	359.8000	-3.17	41.25	38.08	46.00	-7.92	QP	100	211	
6	720.6399	1.72	36.75	38.47	46.00	-7.53	QP	121	10	

Spurious Emissions, TX Mode, 30M-1G



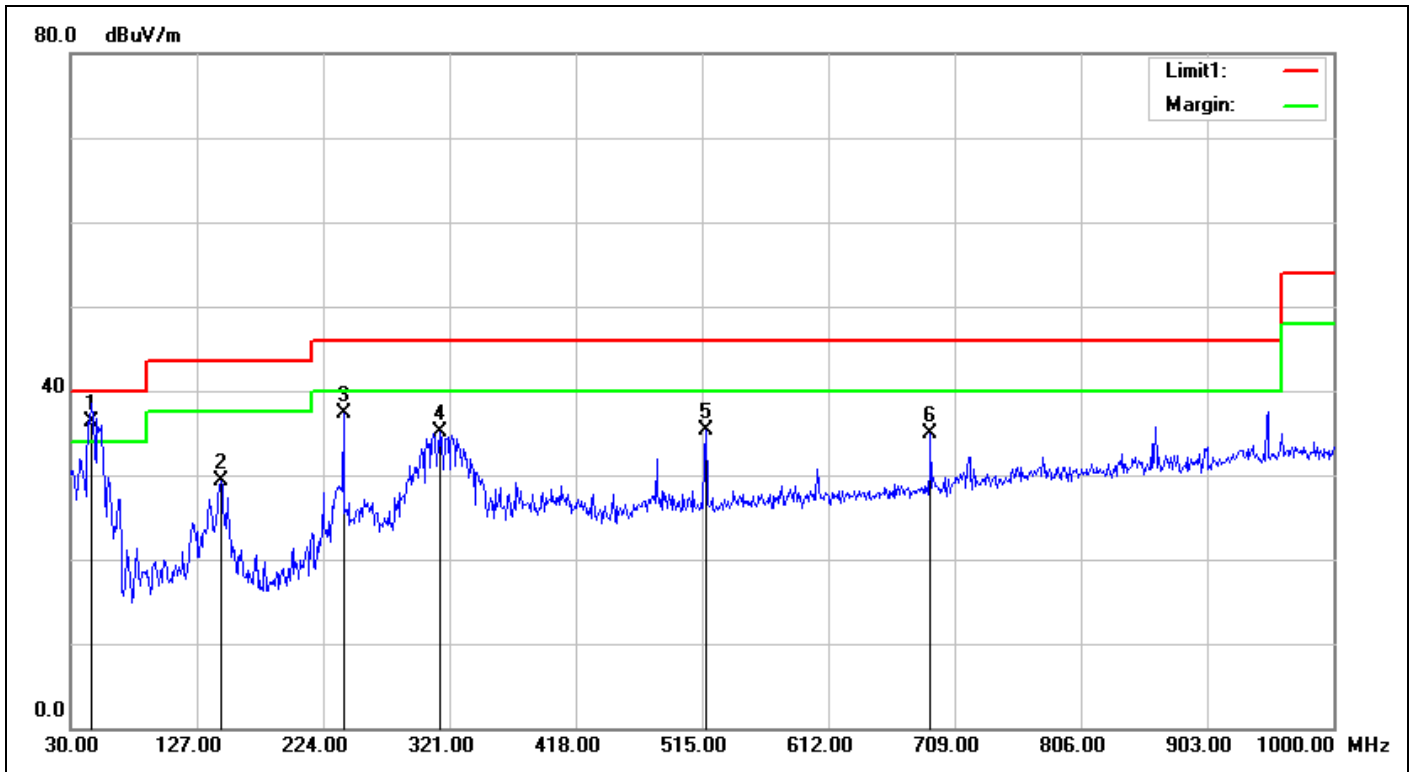
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Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/10 10:31:21
Applicant:	Visteon Electronics Germany GmbH	Test Rating:	DC 12V
Product:	Vehicle body domain controller	Temp.(°C)/Hum.(%):	23.6(°C)/54%
Model No.:	BDC-03	Test Engineer:	Kai Wang
Test Mode:	125k-Tx		
Remark:	immob		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	45.5200	-9.07	45.97	36.90	40.00	-3.10	QP	100	96	
2	145.4299	-7.19	40.96	33.77	43.50	-9.73	QP	100	112	
3	239.5200	-6.85	45.86	39.01	46.00	-6.99	QP	200	136	
4	312.2699	-4.26	40.42	36.16	46.00	-9.84	QP	100	211	
5	720.6399	1.72	31.77	33.49	46.00	-12.51	QP	200	243	
6	920.4600	4.64	28.63	33.27	46.00	-12.73	QP	132	194	



Service No.:	114075529	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/10 10:05:44
Applicant:	Visteon Electronics Germany GmbH	Test Rating:	DC 12V
Product:	Vehicle body domain controller	Temp.(°C)/Hum.(%):	23.6(°C)/54%
Model No.:	BDC-03	Test Engineer:	Kai Wang
Test Mode:	125k-Tx		
Remark:	keyless		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	48.4299	-10.55	38.75	28.20	40.00	-11.80	QP	270	360	
2	146.4000	-7.23	36.96	29.73	43.50	-13.77	QP	100	197	
3	239.5200	-6.85	46.38	39.53	46.00	-6.47	QP	300	224	
4	315.1800	-4.19	41.13	36.94	46.00	-9.06	QP	100	184	
5	359.8000	-3.17	40.62	37.45	46.00	-8.55	QP	200	349	
6	720.6399	1.72	36.01	37.73	46.00	-8.27	QP	300	226	



Service No.:	114075529	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/10 10:11:24
Applicant:	Visteon Electronics Germany GmbH	Test Rating:	DC 12V
Product:	Vehicle body domain controller	Temp.(°C)/Hum.(%):	23.6(°C)/54%
Model No.:	BDC-03	Test Engineer:	Kai Wang
Test Mode:	125k-Tx		
Remark:	keyless		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	45.5200	-9.07	45.47	36.40	40.00	-3.60	QP	100	254	
2	145.4299	-7.19	36.48	29.29	43.50	-14.21	QP	100	132	
3	239.5200	-6.85	44.11	37.26	46.00	-8.74	QP	100	327	
4	314.2099	-4.21	39.32	35.11	46.00	-10.89	QP	100	295	
5	517.9098	-0.91	36.28	35.37	46.00	-10.63	QP	100	105	
6	690.5700	1.13	33.75	34.88	46.00	-11.12	QP	100	211	