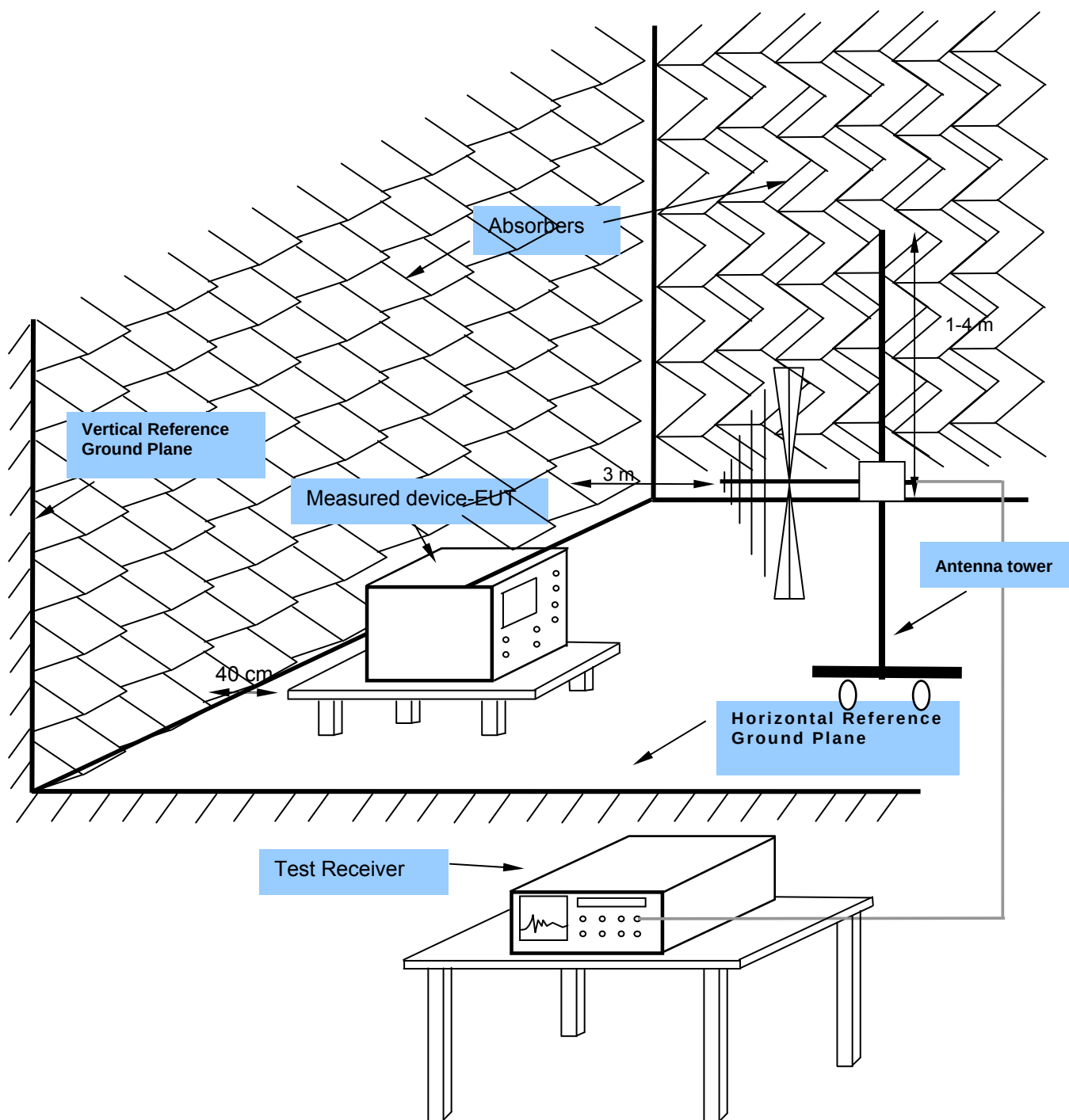


7.2.4 Test setup



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.2.5 Test result

Device passed the requirements stated in FCC Part 15, Subpart C, Section 15.209



C20160918

22.Jul 16 06:47

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 5 Vdc (USB), WAITING
Operator Andrej Skof

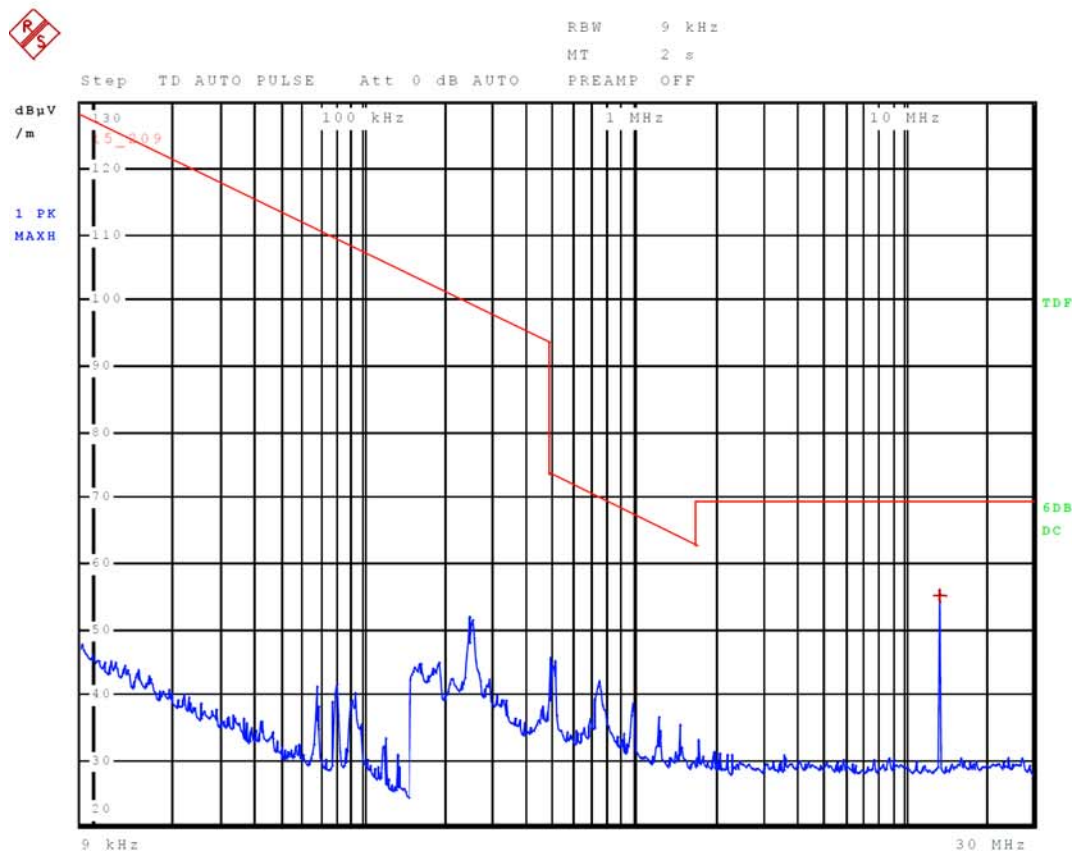
Test Spec

Antenna: 0 deg, Sample: 0 deg

Time Domain Scan (2 Ranges)

Scan Start: 9 kHz
 Scan Stop: 30 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: HFH2-Z2V

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
9.000000 kHz	149.950000 kHz	50.00 Hz	200.00 Hz	300 ms	Auto	0 dB	INPUT2
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	50 ms	Auto	0 dB	INPUT2



**ROHDE & SCHWARZ****C20160918**

22.Jul 16 06:47

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 5 Vdc (USB), WAITING
Operator Andrej Skof

Test Spec

Antenna: 0 deg, Sample: 0 deg

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 1

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	13.560000000 MHz	54.99	Quasi Peak	-14.51

**C20160918**

22.Jul 16 06:43

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 7,5 Vdc, WAITING
Operator Andrej Skof

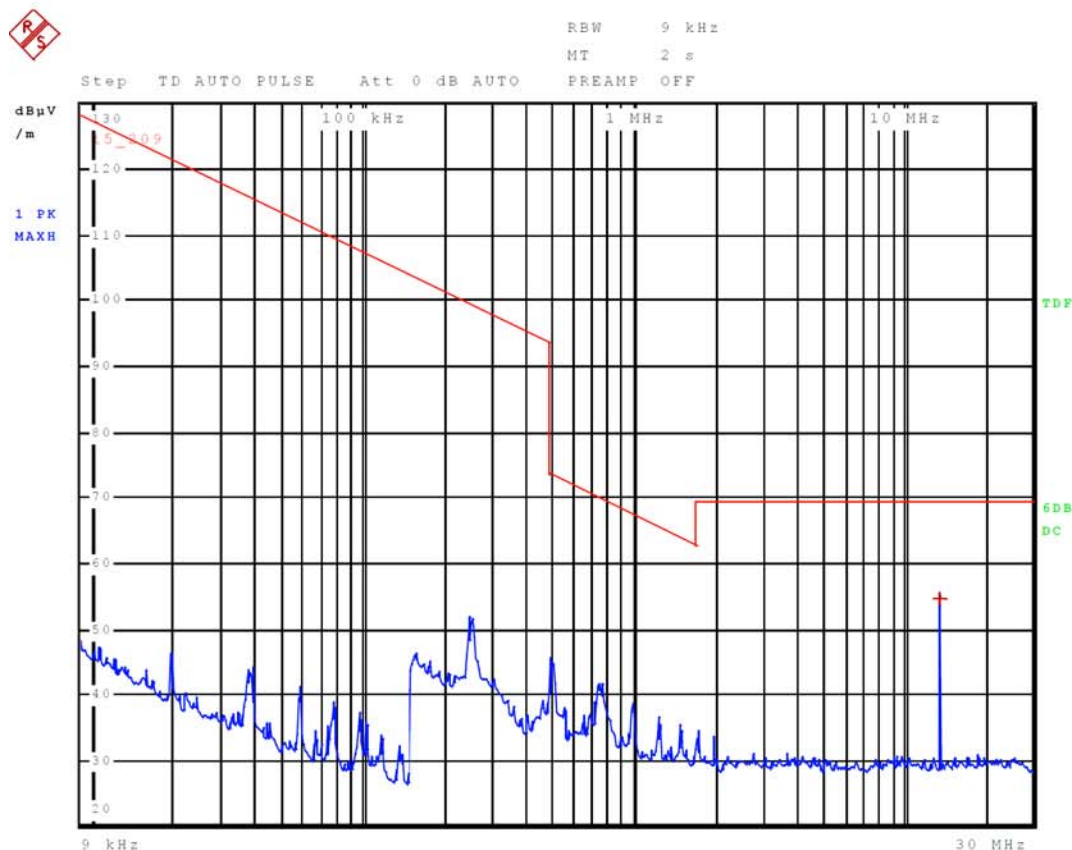
Test Spec

Antenna: 0 deg, Sample: 0 deg

Time Domain Scan (2 Ranges)

Scan Start: 9 kHz
 Scan Stop: 30 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: HFH2-Z2V

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
9.000000 kHz	149.950000 kHz	50.00 Hz	200.00 Hz	300 ms	Auto	0 dB	INPUT2
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	50 ms	Auto	0 dB	INPUT2



**ROHDE & SCHWARZ****C20160918**

22.Jul 16 06:43

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 7,5 Vdc, WAITING
Operator Andrej Skof

Test Spec

Antenna: 0 deg, Sample: 0 deg

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 1

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	13.560000000 MHz	54.49	Quasi Peak	-15.01

**C20160918**

22.Jul 16 06:46

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 5 Vdc (USB), READING
Operator Andrej Skof

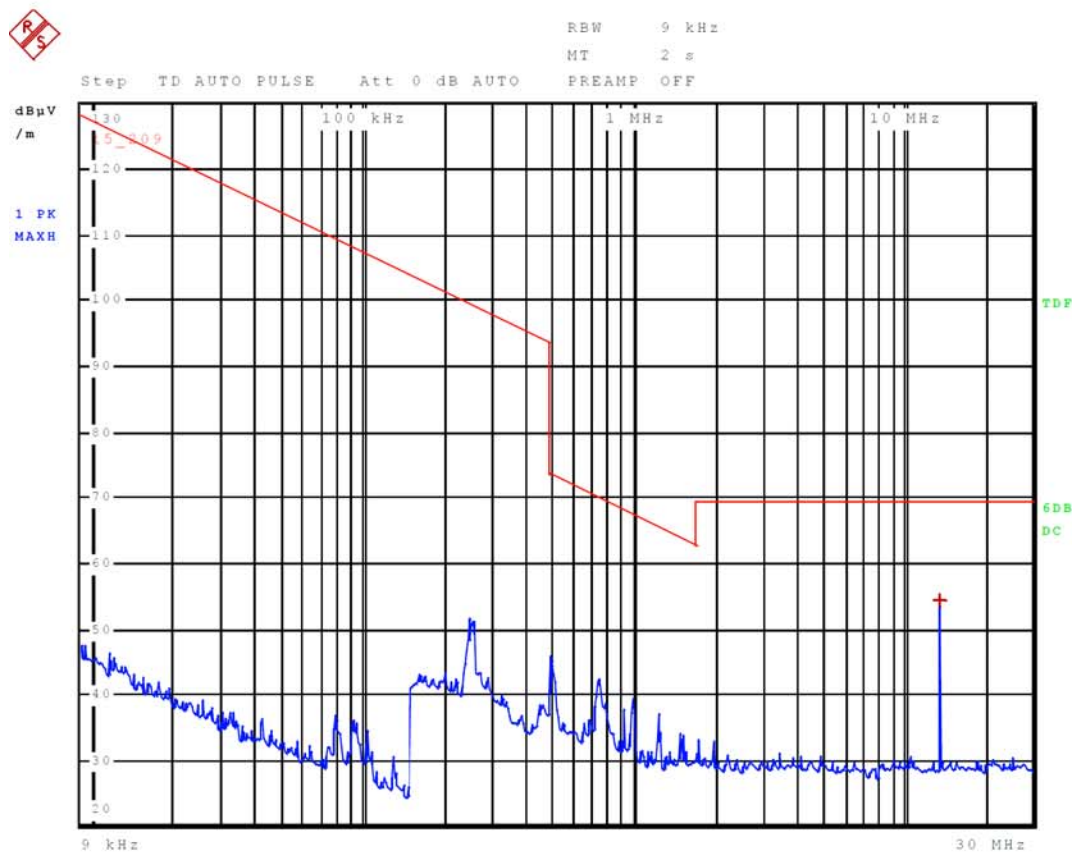
Test Spec

Antenna: 0 deg, Sample: 0 deg

Time Domain Scan (2 Ranges)

Scan Start: 9 kHz
 Scan Stop: 30 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: HFH2-Z2V

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
9.000000 kHz	149.950000 kHz	50.00 Hz	200.00 Hz	300 ms	Auto	0 dB	INPUT2
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	50 ms	Auto	0 dB	INPUT2





ROHDE & SCHWARZ

C20160918

22.Jul 16 06:46

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 5 Vdc (USB), READING
Operator Andrej Skof

Test Spec

Antenna: 0 deg, Sample: 0 deg

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 1

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	13.560000000 MHz	54.23	Quasi Peak	-15.27

**C20160918**

22.Jul 16 06:45

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 7,5 Vdc, READING
Operator Andrej Skof

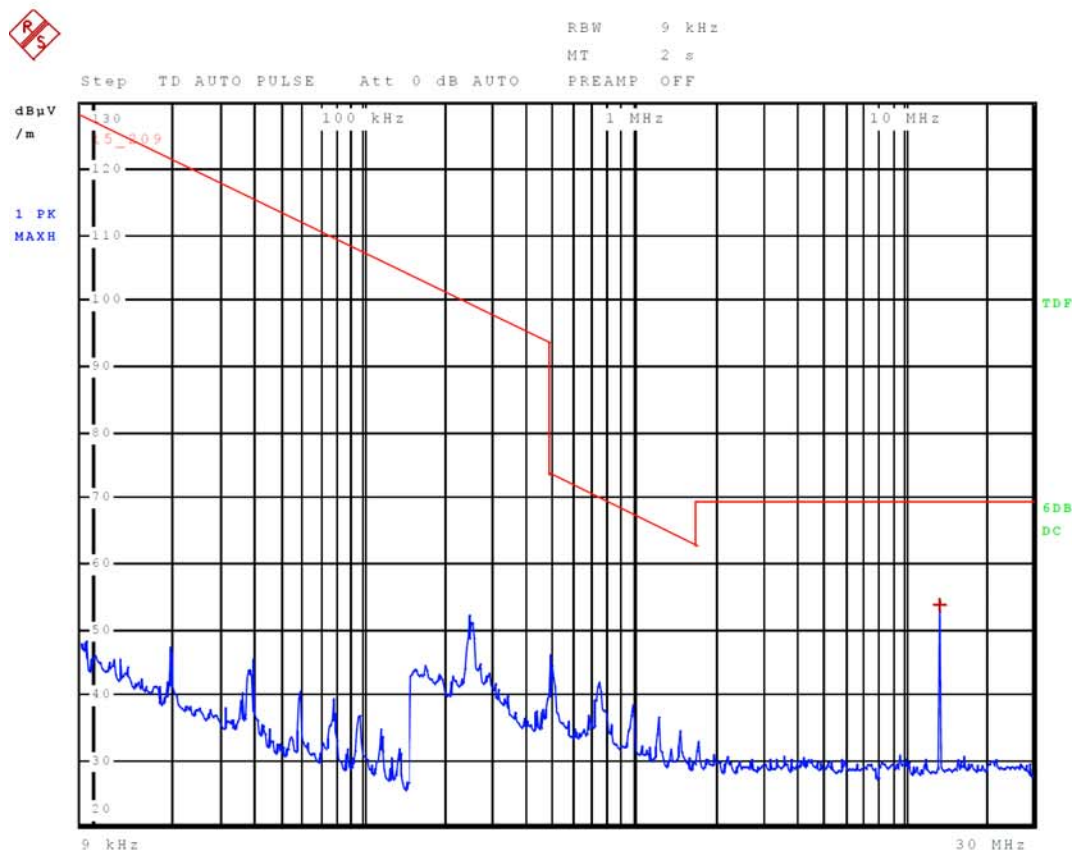
Test Spec

Antenna: 0 deg, Sample: 0 deg

Time Domain Scan (2 Ranges)

Scan Start: 9 kHz
 Scan Stop: 30 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: HFH2-Z2V

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
9.000000 kHz	149.950000 kHz	50.00 Hz	200.00 Hz	300 ms	Auto	0 dB	INPUT2
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	50 ms	Auto	0 dB	INPUT2



**C20160918**

22.Jul 16 06:45

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 7,5 Vdc, READING
Operator Andrej Skof
Test Spec
 Antenna: 0 deg, Sample: 0 deg

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 1

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	13.560000000 MHz	53.60	Quasi Peak	-15.90

Final measurement at 10 m in OATS

Results with measuring distance of 10 m				
Mode	Frequency (MHz)	Measured value (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Reading; 7,5 VDC	13,56	37,44	104,00	66,56
Waiting; 7,5 VDC	13,56	44,82	104,00	59,18
Reading; USB	13,56	34,83	104,00	69,17
Waiting; USB	13,56	42,51	104,00	61,49

Calculated value from 10 m to 30 m						
Mode	Frequency (MHz)	Measured value at 10 m (dB μ V/m)	Correction factor from 10 m to 30 m (dB)	Calculated value at 30 m (dB μ V/m)	Limit at 30 m (dB μ V/m)	Margin (dB)
Reading; 7,5 VDC	13,56	37,44	20	17,44	84,00	66,56
Waiting; 7,5 VDC	13,56	44,82	20	24,82	84,00	59,18
Reading; USB	13,56	34,83	20	14,83	84,00	69,17
Waiting; USB	13,56	42,51	20	22,51	84,00	61,49

NOTE: Antenna factor and cable loss are already included in measurement correction.

**C20160918**

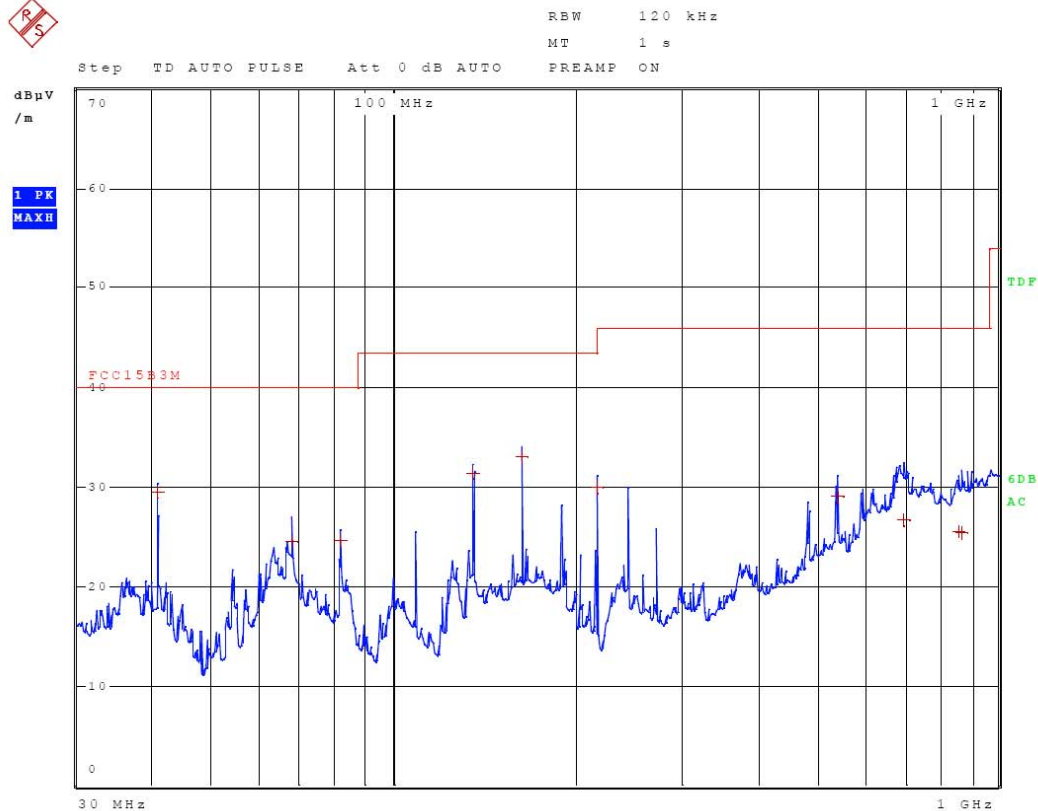
13.Jul 16 10:42

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition EXT PS; WAITING
Operator ANDREJ SKOF
Test Spec
VERTICAL 100 cm 0 deg

Time Domain Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	1 ms	Auto	20 dB	INPUT2





ROHDE & SCHWARZ

C20160918

13.Jul 16 10:42

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition EXT PS; WAITING
Operator ANDREJ SKOF
Test Spec
VERTICAL 100 cm 0 deg

Final Measurement

Meas Time: 1 s
Margin: 15 dB
Subranges: 10

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	162.720000000 MHz	33.01	Quasi Peak	-10.49
1	40.680000000 MHz	29.43	Quasi Peak	-10.57
1	135.600000000 MHz	31.35	Quasi Peak	-12.15
1	81.360000000 MHz	24.63	Quasi Peak	-15.37
1	67.800000000 MHz	24.44	Quasi Peak	-15.56
1	216.960000000 MHz	29.91	Quasi Peak	-16.09
1	540.870000000 MHz	28.99	Quasi Peak	-17.01
1	696.210000000 MHz	26.69	Quasi Peak	-19.31
1	858.180000000 MHz	25.46	Quasi Peak	-20.54
1	870.630000000 MHz	25.43	Quasi Peak	-20.57

**C20160918**

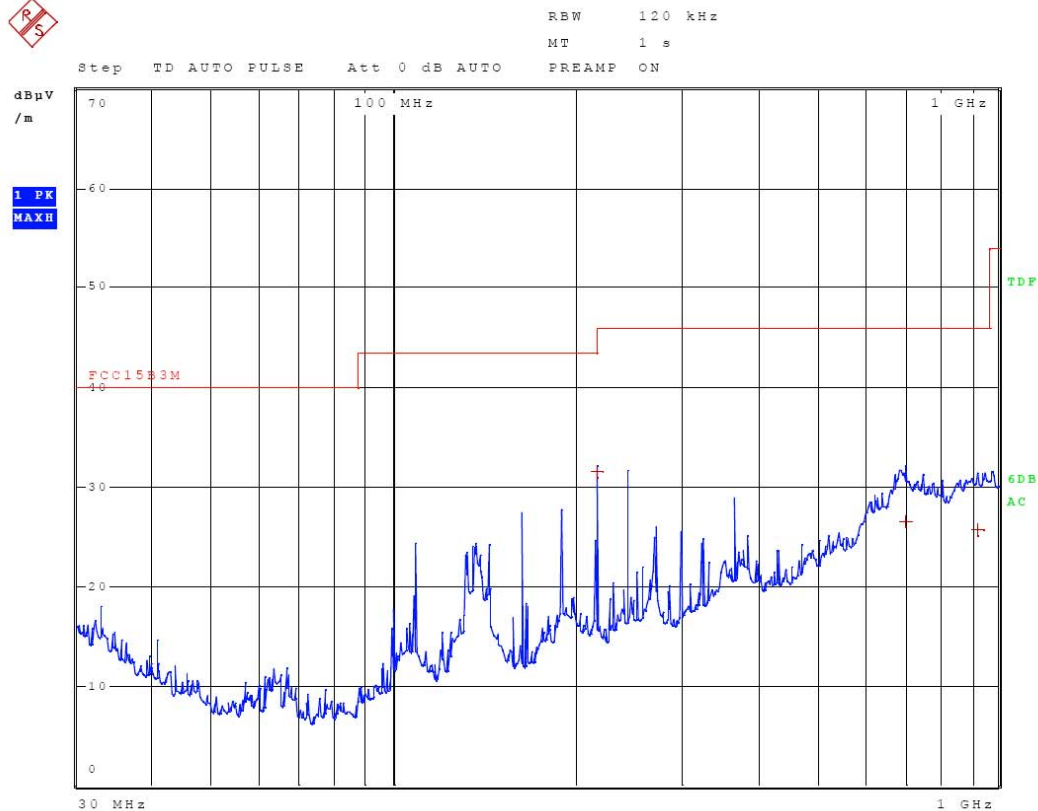
13.Jul 16 09:41

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition EXT PS; WAITING
Operator ANDREJ SKOF
Test Spec
HORIZONTAL 100 cm 0 deg

Time Domain Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	1 ms	Auto	20 dB	INPUT2





ROHDE & SCHWARZ

C20160918

13.Jul 16 09:41

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition EXT PS; WAITING
Operator ANDREJ SKOF

Test Spec
HORIZONTAL 100 cm 0 deg

Final Measurement

Meas Time: 1 s
Margin: 15 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	216.960000000 MHz	31.56	Quasi Peak	-14.44
1	702.840000000 MHz	26.54	Quasi Peak	-19.46
1	921.840000000 MHz	25.69	Quasi Peak	-20.31

**C20160918**

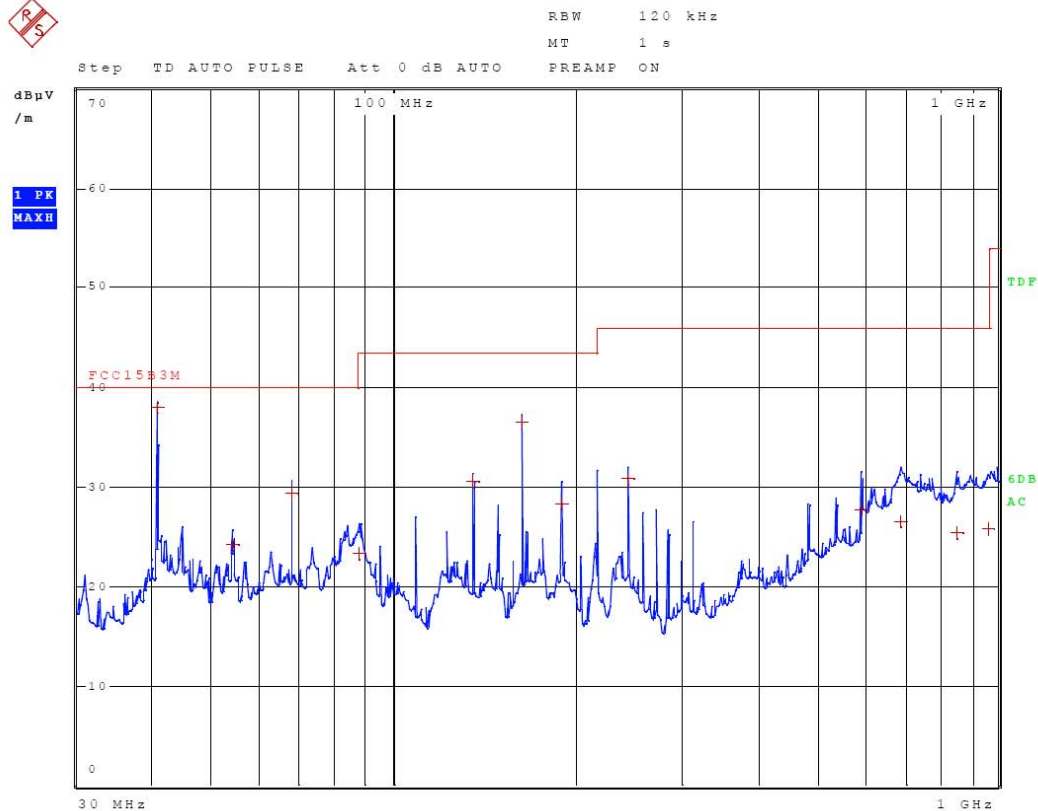
13.Jul 16 11:45

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition EXT PS; READING
Operator ANDREJ SKOF
Test Spec
VERTICAL 100 cm 0 deg

Time Domain Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	1 ms	Auto	20 dB	INPUT2



**ROHDE & SCHWARZ****C20160918**

13.Jul 16 11:45

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition EXT PS; READING
Operator ANDREJ SKOF
Test Spec
VERTICAL 100 cm 0 deg

Final Measurement

Meas Time: 1 s
Margin: 15 dB
Subranges: 12

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	40.680000000 MHz	37.99	Quasi Peak	-2.01
1	162.720000000 MHz	36.56	Quasi Peak	-6.94
1	67.800000000 MHz	29.29	Quasi Peak	-10.71
1	135.600000000 MHz	30.44	Quasi Peak	-13.06
1	189.840000000 MHz	28.32	Quasi Peak	-15.18
1	244.080000000 MHz	30.77	Quasi Peak	-15.23
1	54.240000000 MHz	24.22	Quasi Peak	-15.78
1	87.510000000 MHz	23.27	Quasi Peak	-16.73
1	592.620000000 MHz	27.78	Quasi Peak	-18.22
1	691.680000000 MHz	26.56	Quasi Peak	-19.44
1	958.920000000 MHz	25.86	Quasi Peak	-20.14
1	854.220000000 MHz	25.36	Quasi Peak	-20.64

**C20160918**

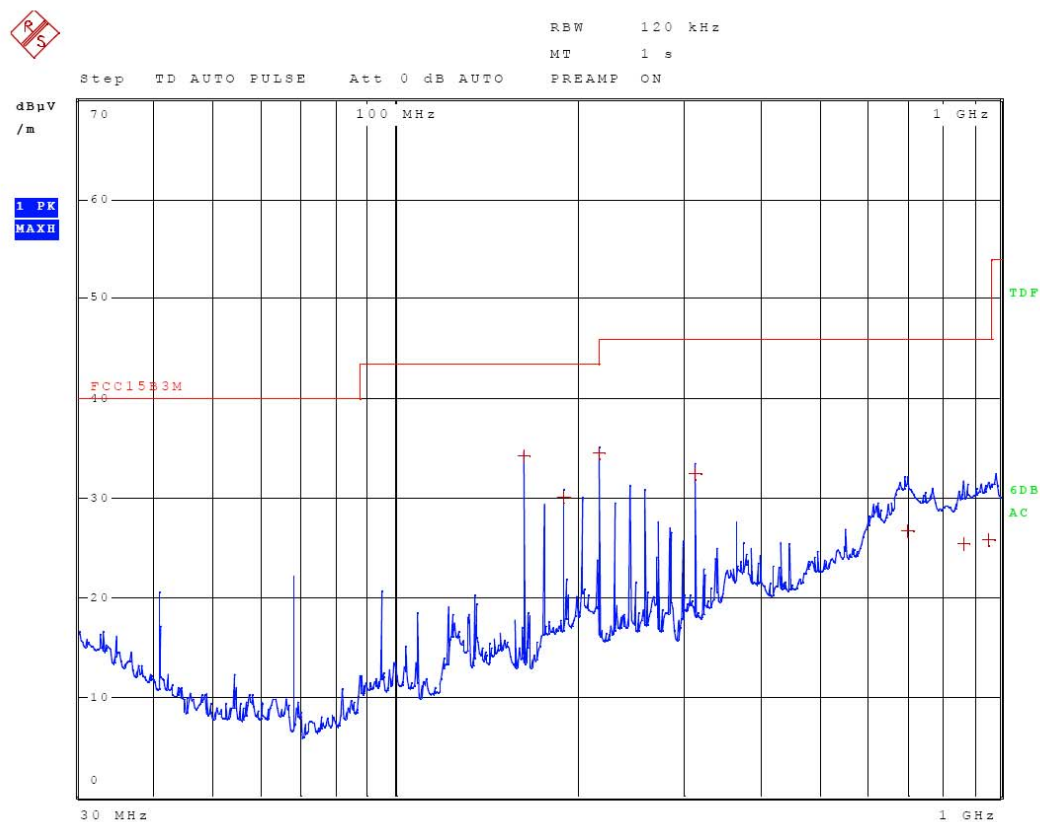
13.Jul 16 11:46

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition EXT PS; READING
Operator ANDREJ SKOF
Test Spec
 HORIZONTAL 100 cm 0 deg

Time Domain Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	1 ms	Auto	20 dB	INPUT2





ROHDE & SCHWARZ

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13.Jul 16 11:46

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition EXT PS; READING
Operator ANDREJ SKOF

Test Spec
HORIZONTAL 100 cm 0 deg

Final Measurement

Meas Time: 1 s
Margin: 15 dB
Subranges: 7

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	162.720000000 MHz	34.21	Quasi Peak	-9.29
1	216.960000000 MHz	34.49	Quasi Peak	-11.51
1	189.840000000 MHz	30.11	Quasi Peak	-13.39
1	311.880000000 MHz	32.47	Quasi Peak	-13.53
1	700.290000000 MHz	26.71	Quasi Peak	-19.29
1	957.450000000 MHz	25.84	Quasi Peak	-20.16
1	868.260000000 MHz	25.39	Quasi Peak	-20.61

**C20160918**

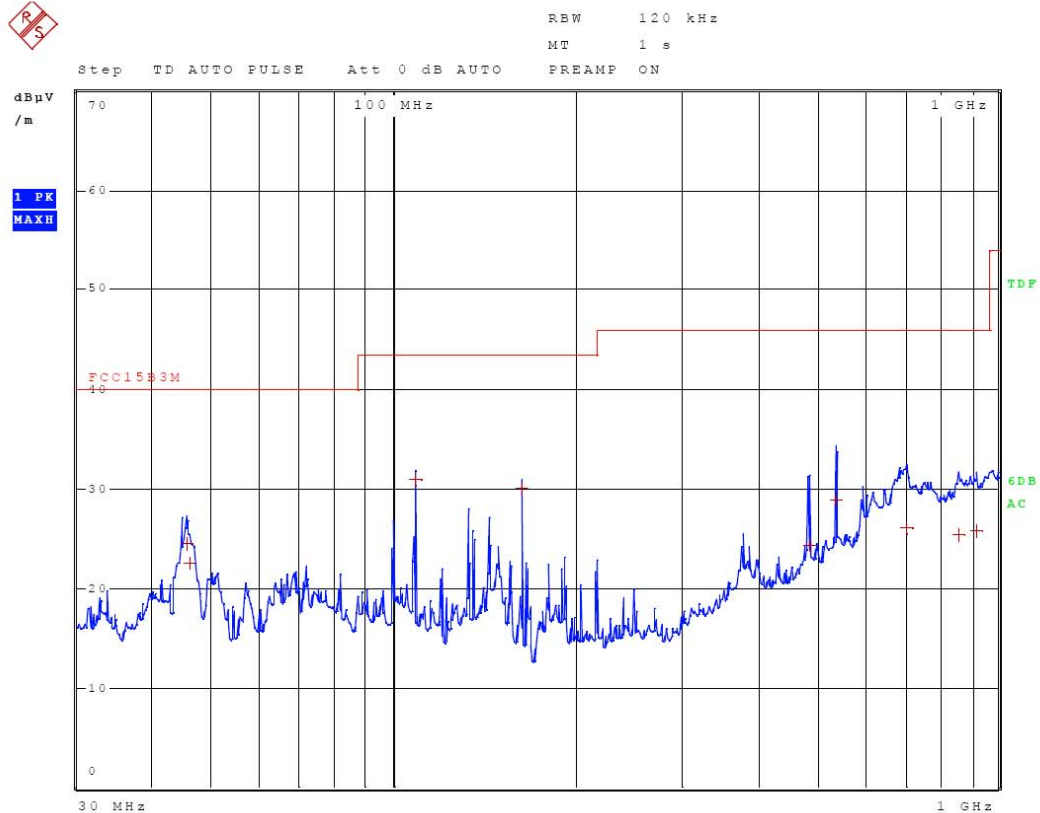
13.Jul 16 08:26

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition USB PS;WAITING
Operator ANDREJ SKOF
Test Spec
 VERTICAL 100 cm 0 deg

Time Domain Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	1 ms	Auto	20 dB	INPUT2



**ROHDE & SCHWARZ****C20160918**

13.Jul 16 08:26

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition USB PS;WAITING
Operator ANDREJ SKOF
Test Spec
VERTICAL 100 cm 0 deg

Final Measurement

Meas Time: 1 s
Margin: 15 dB
Subranges: 9

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	108.480000000 MHz	31.00	Quasi Peak	-12.50
1	162.720000000 MHz	30.09	Quasi Peak	-13.41
1	45.480000000 MHz	24.43	Quasi Peak	-15.57
1	538.740000000 MHz	28.89	Quasi Peak	-17.11
1	45.750000000 MHz	22.60	Quasi Peak	-17.40
1	706.860000000 MHz	26.12	Quasi Peak	-19.88
1	921.060000000 MHz	25.76	Quasi Peak	-20.24
1	857.880000000 MHz	25.34	Quasi Peak	-20.66
1	486.900000000 MHz	24.41	Quasi Peak	-21.59

**C20160918**

13.Jul 16 08:28

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition USB PS;WAITING
Operator ANDREJ SKOF
Test Spec
 HORIZONTAL 100 cm 0 deg

Time Domain Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: 3142B3m

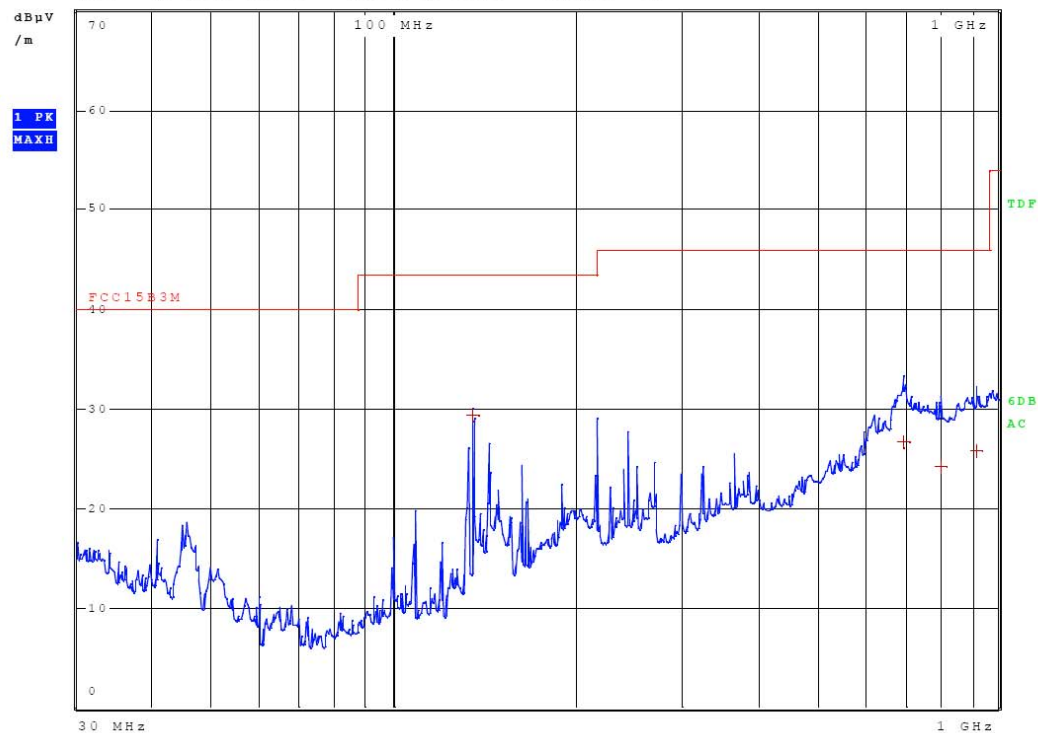
Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	1 ms	Auto	20 dB	INPUT2



RBW 120 kHz

MT 1 s

Step TD AUTO PULSE Att 0 dB AUTO PREAMP ON





ROHDE & SCHWARZ

C20160918

13.Jul 16 08:28

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition USB PS;WAITING
Operator ANDREJ SKOF

Test Spec
HORIZONTAL 100 cm 0 deg

Final Measurement

Meas Time: 1 s
Margin: 16 dB
Subranges: 4

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	135.600000000 MHz	29.40	Quasi Peak	-14.10
1	698.280000000 MHz	26.62	Quasi Peak	-19.38
1	917.310000000 MHz	25.77	Quasi Peak	-20.23
1	801.990000000 MHz	24.25	Quasi Peak	-21.75

**C20160918**

13.Jul 16 08:18

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition USB PS; READING
Operator ANDREJ SKOF
Test Spec
 VERTICAL 100 cm 0 deg

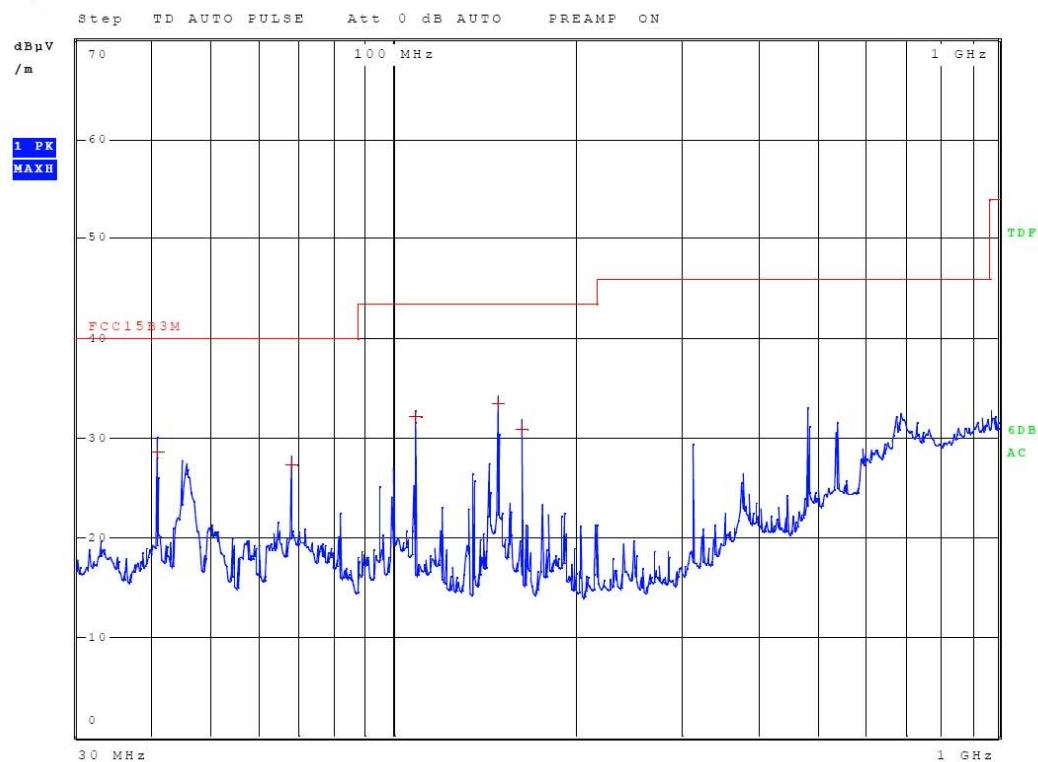
Time Domain Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	1 ms	Auto	20 dB	INPUT2



RBW 120 kHz
 MT 1 s
 PREAMP ON





ROHDE & SCHWARZ

C20160918

13.Jul 16 08:18

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer CETRTA POT d.o.o.
OP Condition USB PS; READING
Operator ANDREJ SKOF
Test Spec
VERTICAL 100 cm 0 deg

Final Measurement

Meas Time: 1 s
Margin: 12 dB
Subranges: 5

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	149.160000000 MHz	33.48	Quasi Peak	-10.02
1	40.680000000 MHz	28.61	Quasi Peak	-11.39
1	108.480000000 MHz	32.11	Quasi Peak	-11.39
1	162.720000000 MHz	30.88	Quasi Peak	-12.62
1	67.800000000 MHz	27.28	Quasi Peak	-12.72

**C20160918**

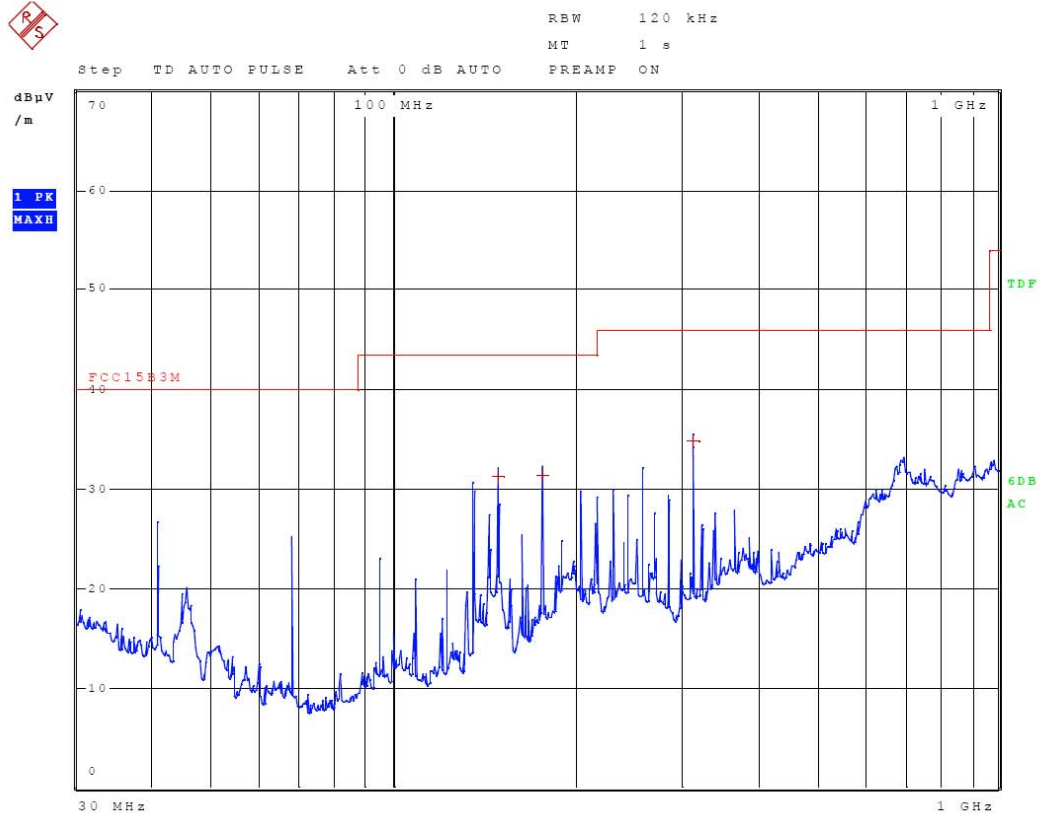
13.Jul 16 08:16

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer CETRTA POT d.o.o.
OP Condition USB PS; READING
Operator ANDREJ SKOF
Test Spec
 HORIZONTAL 100 cm 0 deg

Time Domain Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	1 ms	Auto	20 dB	INPUT2





ROHDE & SCHWARZ

C20160918

13.Jul 16 08:16

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition USB PS; READING
Operator ANDREJ SKOF

Test Spec
HORIZONTAL 100 cm 0 deg

Final Measurement

Meas Time: 1 s
Margin: 12 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	311.880000000 MHz	34.83	Quasi Peak	-11.17
1	176.280000000 MHz	31.40	Quasi Peak	-12.10
1	149.160000000 MHz	31.24	Quasi Peak	-12.26

Worst case measurements:

**C20160918**

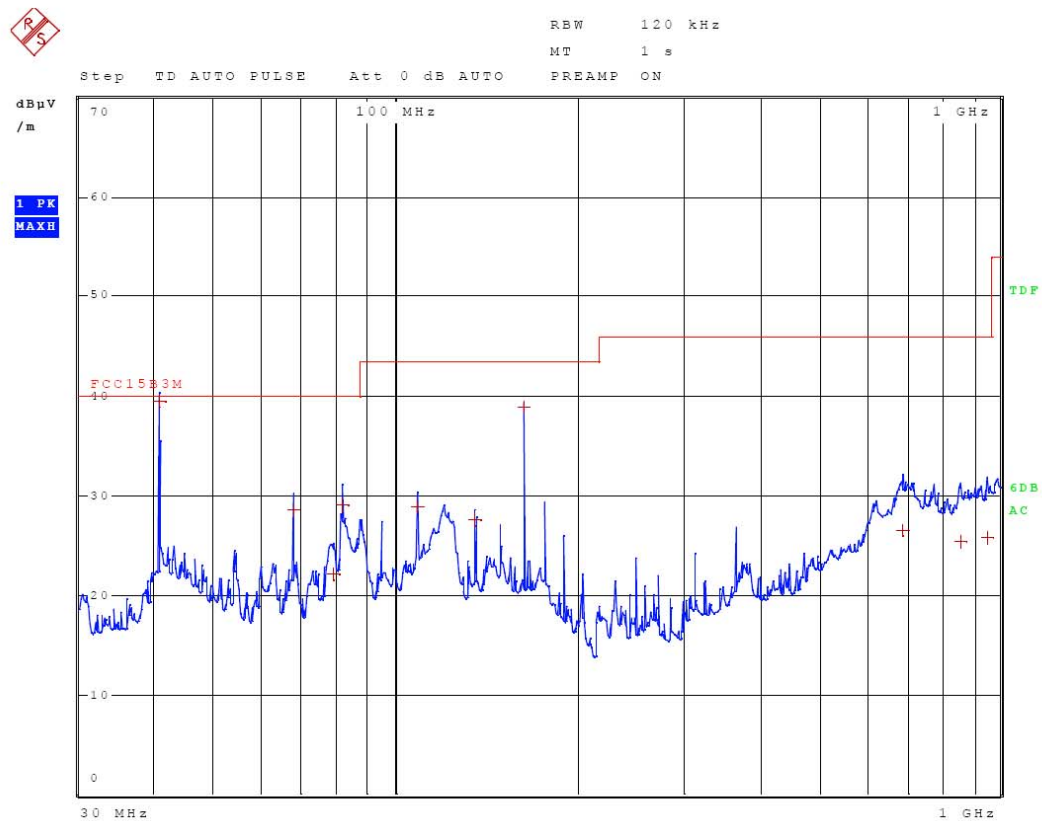
13.Jul 16 11:42

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition EXT PS; READING
Operator ANDREJ SKOF
Test Spec
 VERTICAL 100 cm 240 deg

Time Domain Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	1 ms	Auto	20 dB	INPUT2





ROHDE & SCHWARZ

C20160918

13.Jul 16 11:42

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition EXT PS; READING
Operator ANDREJ SKOF
Test Spec
VERTICAL 100 cm 240 deg

Final Measurement

Meas Time: 1 s
Margin: 15 dB
Subranges: 10

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	40.680000000 MHz	39.54	Quasi Peak	-0.46
1	162.720000000 MHz	38.89	Quasi Peak	-4.61
1	81.360000000 MHz	29.09	Quasi Peak	-10.91
1	67.800000000 MHz	28.66	Quasi Peak	-11.34
1	108.480000000 MHz	28.84	Quasi Peak	-14.66
1	135.600000000 MHz	27.53	Quasi Peak	-15.97
1	78.780000000 MHz	22.08	Quasi Peak	-17.92
1	690.060000000 MHz	26.59	Quasi Peak	-19.41
1	949.290000000 MHz	25.76	Quasi Peak	-20.24
1	858.360000000 MHz	25.39	Quasi Peak	-20.61

**C20160918**

13.Jul 16 08:38

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition USB PS; READING
Operator ANDREJ SKOF
Test Spec
 HORIZONTAL 100 cm 90 deg

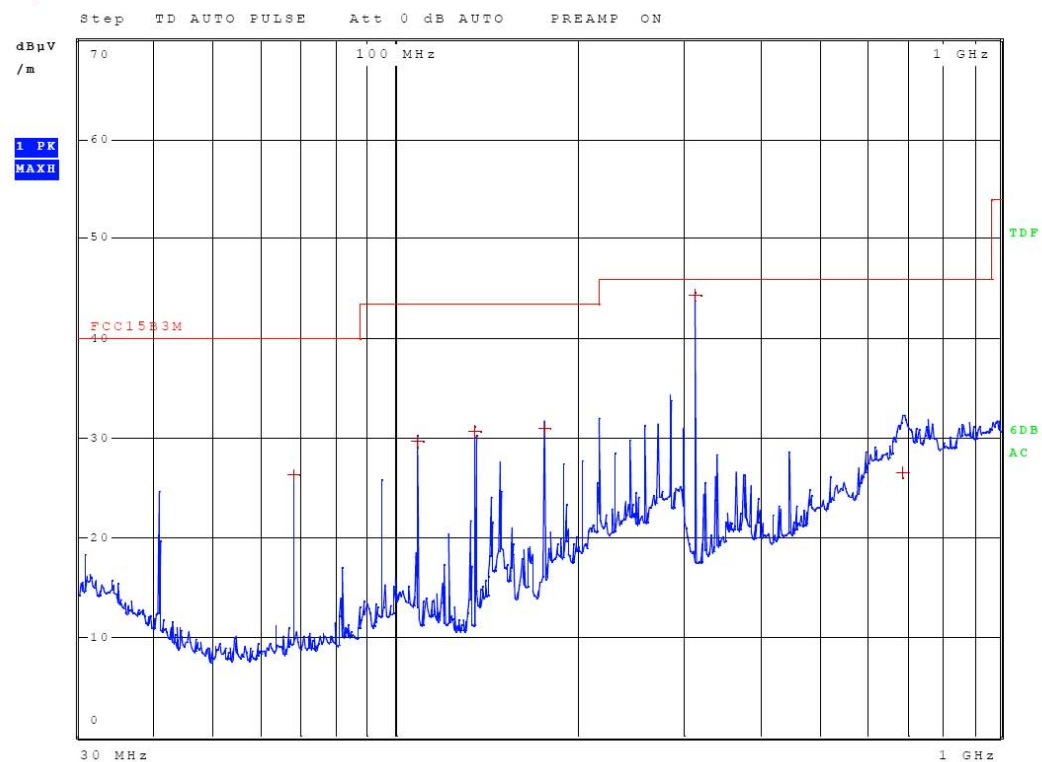
Time Domain Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	1 ms	Auto	20 dB	INPUT2



RBW 120 kHz
 MT 1 s
 PREAMP ON





ROHDE & SCHWARZ

C20160918

13.Jul 16 08:38

Meas Type RADIATED EMISSION
Equipment under Test PNEV7462B V2.2
Manufacturer NXP
OP Condition USB PS; READINF
Operator ANDREJ SKOF
Test Spec
HORIZONTAL 100 cm 90 deg

Final Measurement

Meas Time: 1 s
Margin: 14 dB
Subranges: 6

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	311.880000000 MHz	44.33	Quasi Peak	-1.67
1	176.280000000 MHz	30.92	Quasi Peak	-12.58
1	135.600000000 MHz	30.60	Quasi Peak	-12.90
1	67.800000000 MHz	26.32	Quasi Peak	-13.68
1	108.480000000 MHz	29.61	Quasi Peak	-13.89
1	689.910000000 MHz	26.50	Quasi Peak	-19.50

7.3 Bandwidth of the emission (15.215)

Section 15.215 Additional provisions to the general radiated emission limitations

7.3.1 Test instruments

Description & Manufacturer	Model No.	SIQ No.	Last calibration	Calibrated until	Calibration period	Used
ETS, Anechoic chamber	3m	103949	2014-11	2016-11	24 months	X
Rohde-Schwarz, RFI receiver	ESU8	105187	2015-11	2017-11	24 months	X
EMCO, Antenna	3142B	06/068	2015-09	2017-09	24 months	
Rohde & Schwarz, Active loop antenna	HFH2-Z2	/	2015-09	2017-09	24 months	X
Heinrich Deisel, Turn table	DS 420.00	103337	NA	NA	NA	X
ETS, Antenna tower	/	/	NA	NA	NA	X
ETS, Controller for turn table and antenna tower	/	/	NA	NA	NA	X

7.3.2 Test procedure

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground in an Anechoic Chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 m away from the interference-receiving antenna.
3. Resolution bandwidth is set to a value greater than 5% of the allowed bandwidth. If no bandwidth specifications are given, the guidelines in Section 1.4 are used

7.3.3 Test results

Device passed the requirements stated in FCC Part 15, Subpart C, Section 15.215



C20160918

22.Jul 16 07:16

Meas Type OCCUPIED BANDWIDTH
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 5 Vdc (USB), WAITING
Operator Andrej Skof

Test Spec

Antenna: 20 deg, Sample: 185 deg

Sweep Settings Screen A

Center Frequency	13.560000 MHz	Ref Level	67.200 dBμV/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	50.000000 kHz	Ref Position	100.000 %
Start Frequency	13.535000 MHz	Level Range	70.000 dB
Stop Frequency	13.585000 MHz	RF Att	0.000 dB
RBW	1.000000 kHz		
VBW	3.000000 kHz	X-Axis	LIN
Sweep Time	50.00 ms	Y-Axis	LOG



MARKER 1

13.56048077 MHz

Ref 67.2 dBμV/m

Att 0 dB

RBW 1 kHz

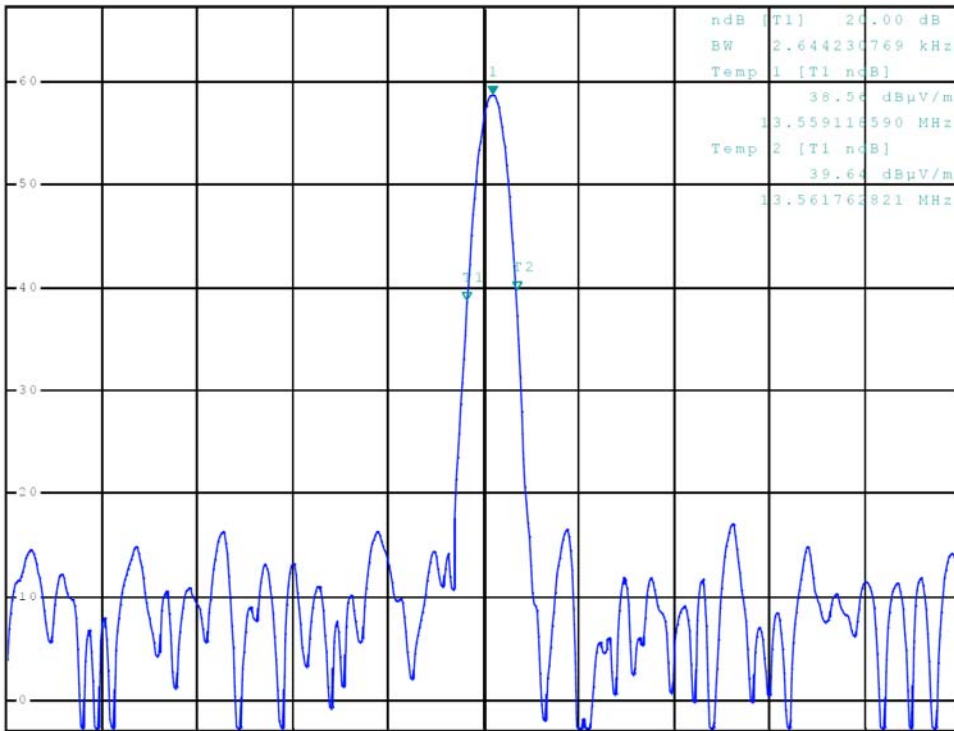
VBW 3 kHz

SWT 50 ms

Marker 1 [T1]

58.67 dBμV/m

13.560480769 MHz



Center 13.56 MHz

5 kHz/

Span 50 kHz

**C20160918**

22.Jul 16 07:15

Meas Type OCCUPIED BANDWIDTH
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 5 Vdc (USB), READING
Operator Andrej Skof

Test Spec

Antenna: 20 deg, Sample: 185 deg

Sweep Settings Screen A

Center Frequency	13.560000 MHz	Ref Level	67.200 dBμV/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	50.000000 kHz	Ref Position	100.000 %
Start Frequency	13.535000 MHz	Level Range	70.000 dB
Stop Frequency	13.585000 MHz	RF Att	0.000 dB
RBW	1.000000 kHz		
VBW	3.000000 kHz	X-Axis	LIN
Sweep Time	50.00 ms	Y-Axis	LOG

**MARKER 1**

13.56048077 MHz

Ref 67.2 dBμV/m

Att 0 dB

RBW 1 kHz

VBW 3 kHz

SWT 50 ms

Marker 1 [T1]

57.97 dBμV/m

13.560480769 MHz

ndB [F1] 20.00 dB

BW 2.644230769 kHz

Temp 1 [T1 ndB]

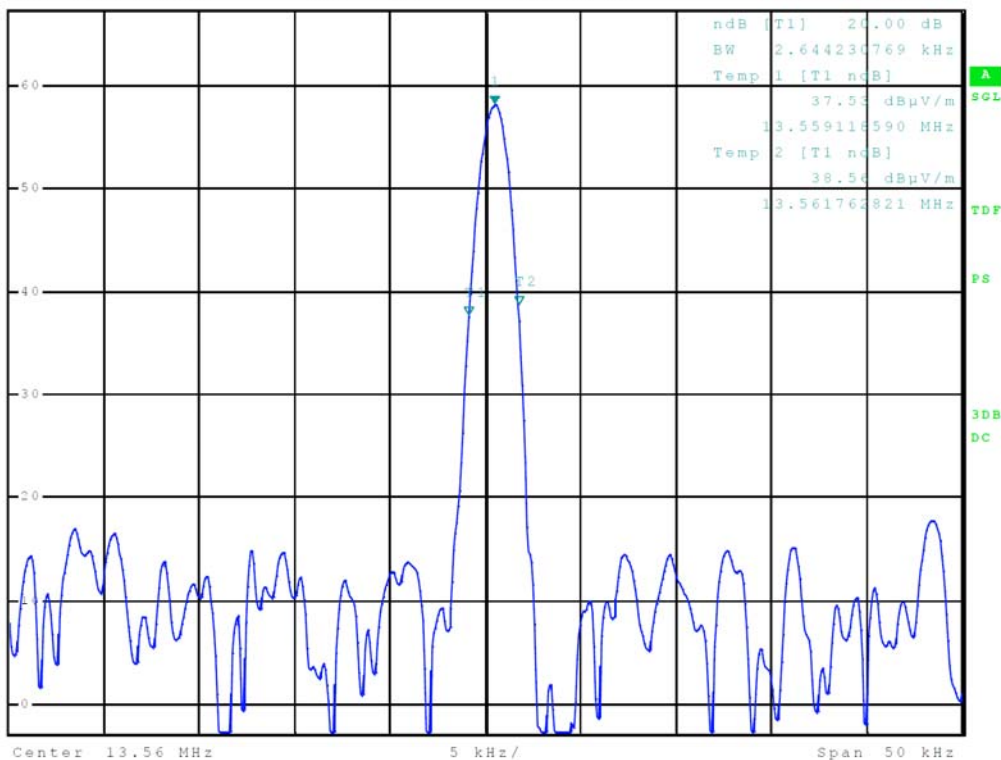
37.53 dBμV/m

13.559118590 MHz

Temp 2 [T1 ndB]

38.56 dBμV/m

13.561762821 MHz

1 PK
MAXH



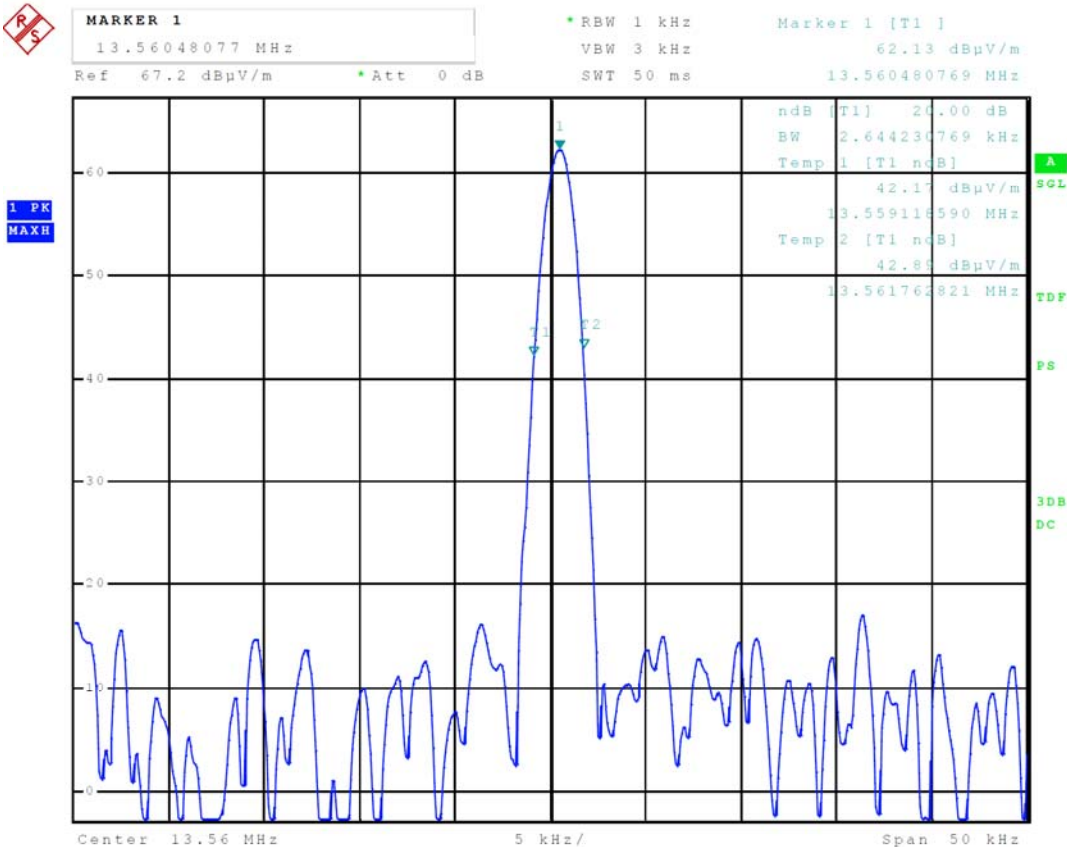
C20160918

22.Jul 16 07:12

Meas Type OCCUPIED BANDWIDTH
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 7,5 Vdc, WAITING
Operator Andrej Skof
Test Spec
Antenna: 20 deg, Sample: 185 deg

Sweep Settings Screen A

Center Frequency	13.560000 MHz	Ref Level	67.200 dBμV/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	50.000000 kHz	Ref Position	100.000 %
Start Frequency	13.535000 MHz	Level Range	70.000 dB
Stop Frequency	13.585000 MHz	RF Att	0.000 dB
RBW	1.000000 kHz		
VBW	3.000000 kHz	X-Axis	LIN
Sweep Time	50.00 ms	Y-Axis	LOG



**C20160918**

22.Jul 16 07:11

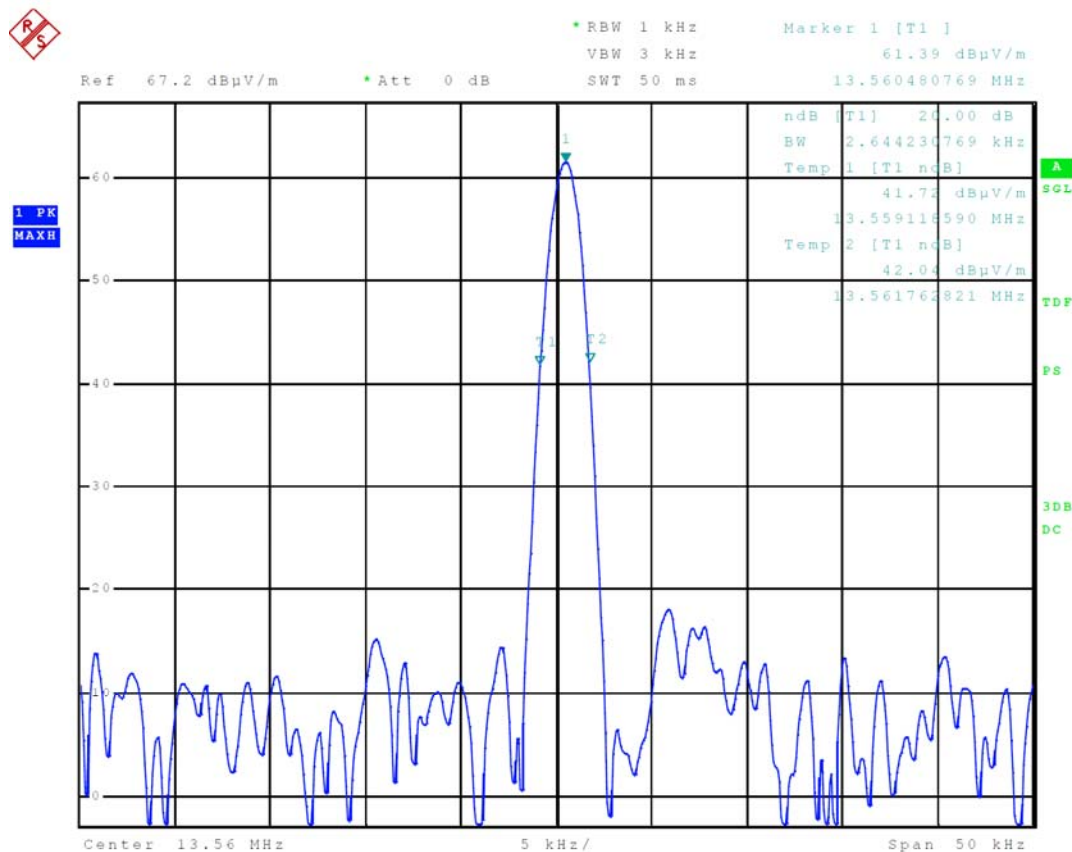
Meas Type OCCUPIED BANDWIDTH
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 7,5 Vdc, READING
Operator Andrej Skof

Test Spec

Antenna: 20 deg, Sample: 185 deg

Sweep Settings Screen A

Center Frequency	13.560000 MHz	Ref Level	67.200 dBμV/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	50.000000 kHz	Ref Position	100.000 %
Start Frequency	13.535000 MHz	Level Range	70.000 dB
Stop Frequency	13.585000 MHz	RF Att	0.000 dB
RBW	1.000000 kHz		
VBW	3.000000 kHz	X-Axis	LIN
Sweep Time	50.00 ms	Y-Axis	LOG



Frequency (MHz)	Permitted frequency band (MHz)	20 dB bandwidth (kHz)	PASS/FAIL
13.56	13.110 – 14.010	2.64	PASS

7.4 Spectrum mask (15.225)

Section 15.225 Operation within the band 13.110 – 14.010 MHz – clause a – clause d

7.4.1 Test instruments

Description & Manufacturer	Model No.	SIQ No.	Last calibration	Calibrated until	Calibration period	Used
ETS, Anechoic chamber	3m	103949	2014-11	2016-11	24 months	X
Rohde-Schwarz, RFI receiver	ESU26	106897	2015-12	2017-12	24 months	X
EMCO, Antenna	3142B	06/068	2015-09	2017-09	24 months	
Rohde & Schwarz, Active loop antenna	HFH2-Z2	/	2015-09	2017-09	24 months	X
Heinrich Deisel, Turn table	DS 420.00	103337	NA	NA	NA	X
ETS, Antenna tower	/	/	NA	NA	NA	X
ETS, Controller for turn table and antenna tower	/	/	NA	NA	NA	X

7.4.2 Test procedure

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground in an Anechoic Chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 m away from the interference-receiving antenna.
3. Frequencies with maximum emission were retested on OATS.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.

7.4.3 Test results

Device passed the requirements stated in FCC Part 15, Subpart C, Section 15.225



C20160918

22.Jul 16 07:07

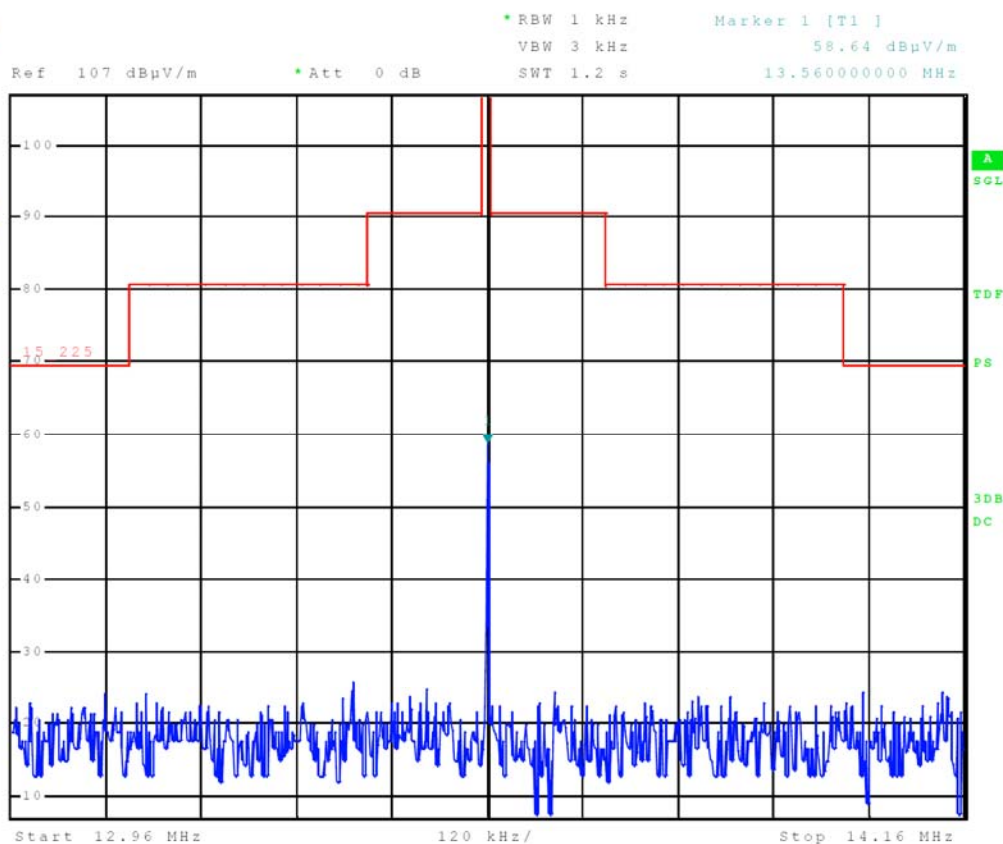
Meas Type SPECTRUM MASK
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 5 Vdc (USB), WAITING
Operator Andrej Skof

Test Spec

Antenna: 20 deg, Sample: 185 deg

Sweep Settings Screen A

Center Frequency	13.560000 MHz	Ref Level	107.000 dBμV/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	1.200000 MHz	Ref Position	100.000 %
Start Frequency	12.960000 MHz	Level Range	100.000 dB
Stop Frequency	14.160000 MHz	RF Att	0.000 dB
RBW	1.000000 kHz		
VBW	3.000000 kHz	X-Axis	LIN
Sweep Time	1.20 s	Y-Axis	LOG





ROHDE & SCHWARZ

C20160918

22.Jul 16 07:05

Meas Type SPECTRUM MASK
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 5 Vdc (USB), READING
Operator Andrej Skof

Test Spec

Antenna: 20 deg, Sample: 185 deg

Sweep Settings Screen A

Center Frequency	13.560000 MHz	Ref Level	107.000 dBμV/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	1.200000 MHz	Ref Position	100.000 %
Start Frequency	12.960000 MHz	Level Range	100.000 dB
Stop Frequency	14.160000 MHz	RF Att	0.000 dB
RBW	1.000000 kHz		
VBW	3.000000 kHz	X-Axis	LIN
Sweep Time	1.20 s	Y-Axis	LOG

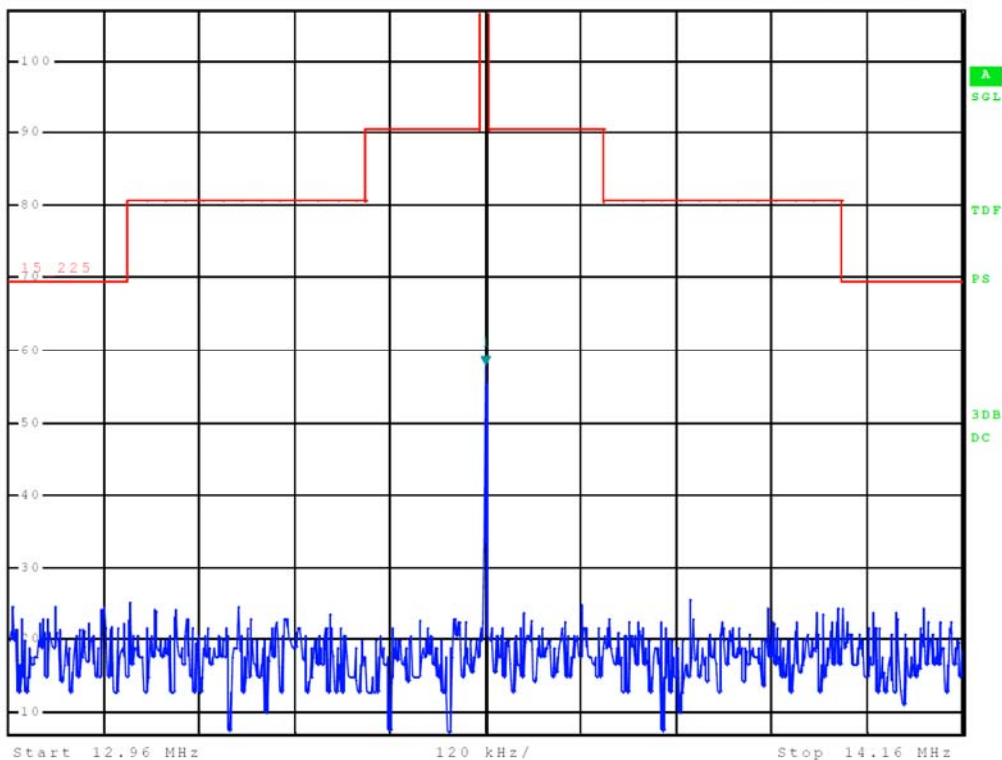


* RBW 1 kHz Marker 1 [T1]
VBW 3 kHz 57.81 dBμV/m
SWT 1.2 s 13.560000000 MHz

Ref 107 dBμV/m

* Att 0 dB

13.560000000 MHz

1 PK
MAXH

**C20160918**

22.Jul 16 07:09

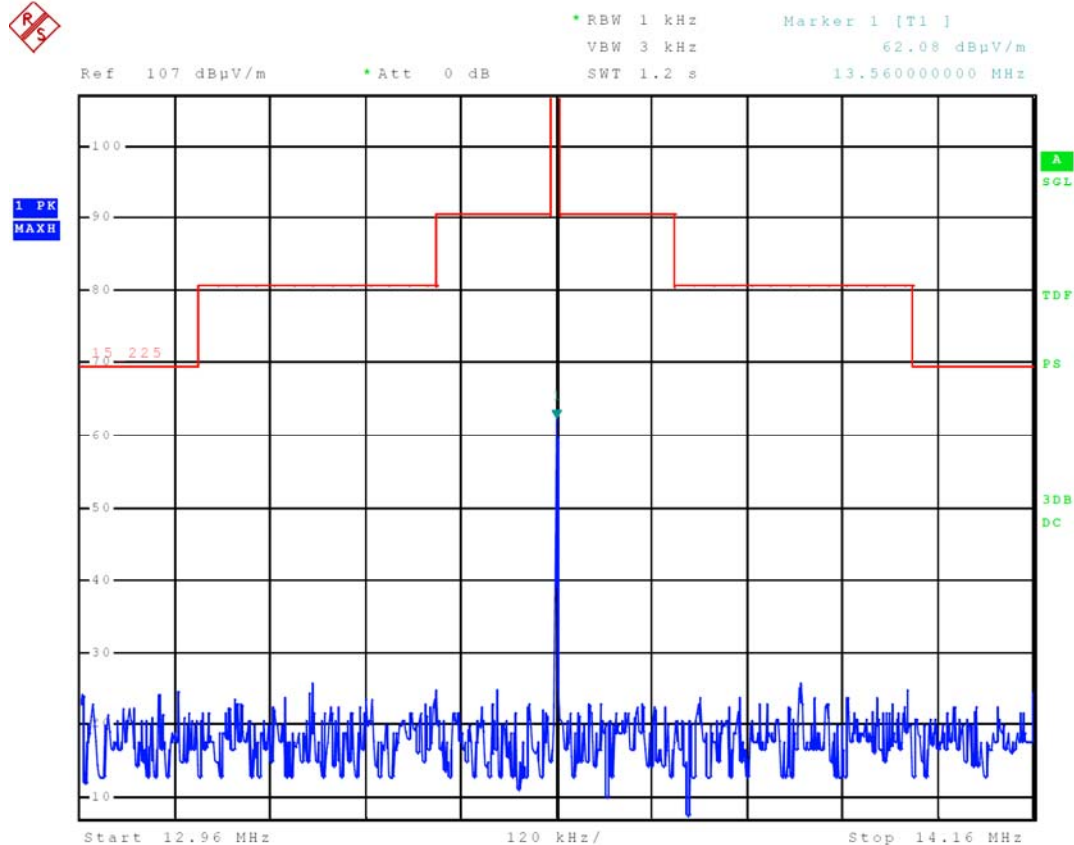
Meas Type SPECTRUM MASK
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 7,5 Vdc, WAITING
Operator Andrej Skof

Test Spec

Antenna: 20 deg, Sample: 185 deg

Sweep Settings Screen A

Center Frequency	13.560000 MHz	Ref Level	107.000 dBμV/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	1.200000 MHz	Ref Position	100.000 %
Start Frequency	12.960000 MHz	Level Range	100.000 dB
Stop Frequency	14.160000 MHz	RF Att	0.000 dB
RBW	1.000000 kHz		
VBW	3.000000 kHz	X-Axis	LIN
Sweep Time	1.20 s	Y-Axis	LOG





ROHDE & SCHWARZ

C20160918

22.Jul 16 07:10

Meas Type SPECTRUM MASK
Equipment under Test PNEV7462B V2.2
Manufacturer NXP SEMICONDUCTORS GmbH
OP Condition Uin: 7,5 Vdc, READING
Operator Andrej Skof

Test Spec

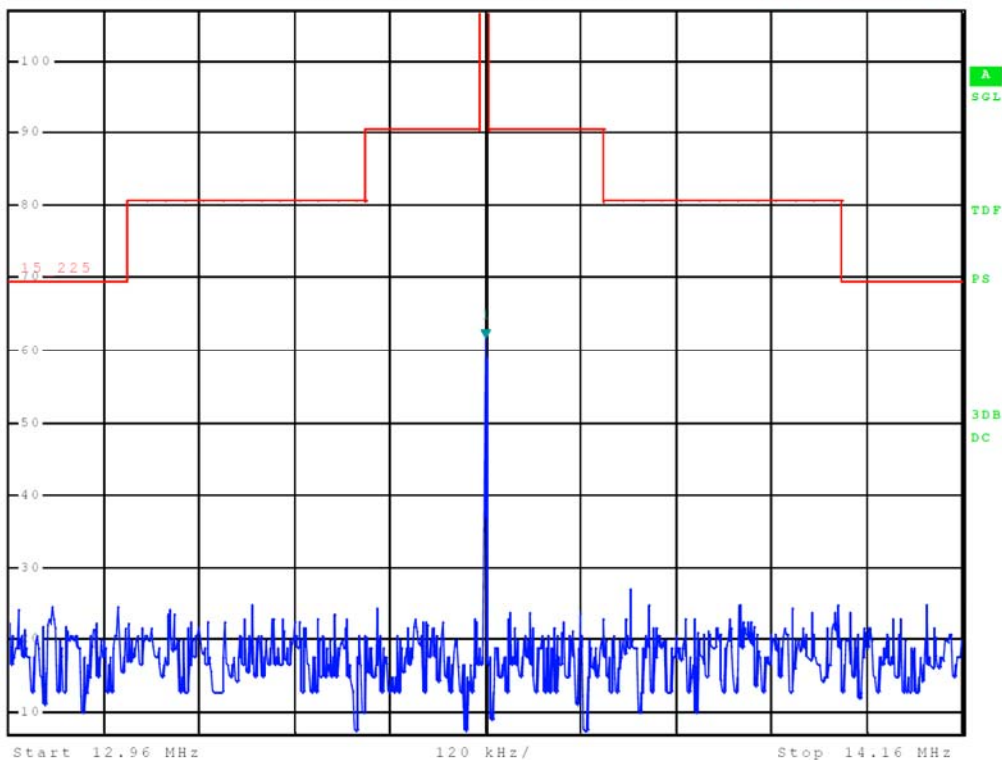
Antenna: 20 deg, Sample: 185 deg

Sweep Settings Screen A

Center Frequency	13.560000 MHz	Ref Level	107.000 dB μ V/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	1.200000 MHz	Ref Position	100.000 %
Start Frequency	12.960000 MHz	Level Range	100.000 dB
Stop Frequency	14.160000 MHz	RF Att	0.000 dB
RBW	1.000000 kHz		
VBW	3.000000 kHz	X-Axis	LIN
Sweep Time	1.20 s	Y-Axis	LOG



* RBW 1 kHz Marker 1 [T1]
VBW 3 kHz 61.51 dB μ V/m
Ref 107 dB μ V/m * Att 0 dB SWT 1.2 s 13.560000000 MHz

1 PK
MAXH

7.5 Frequency tolerance of the carrier signal (15.225)

Section 15.225 Operation within the band 13.110 – 14.010 MHz

7.5.1 Test instruments:

Description & Manufacturer	Model No.	SIQ No.	Last calibration	Calibrated until	Calibration period	Used
Rohde-Schwarz, RFI receiver	ESU8	105187	2015-11	2017-11	24 months	X
Rohde & Schwarz, Active loop antenna	HFH2-Z2	/	2015-09	2017-09	24 months	X
Fluke, Digital Multimeter	179	106728	2015-07	2016-07	12 months	X
Kambič, Temperature chamber	I-190 CK	107298	Na	Na	/	X

7.5.2 Test requirements:

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

7.5.3 Test results

Device passed the requirements stated in FCC Part 15, Subpart C, Section 15.225

PNEV 7462B FREQUENCY STABILITY						
Temperature	Supply voltage (V)	Minutes after switch on	Measured Frequency (MHz)	Allowed tolerance	Measured tolerance	RESULT
50	5,00	0	13,560415900	Fref±1.356 kHz	-0,054	PASS
	5,00	2	13,560414800	Fref±1.356 kHz	-0,055	PASS
	5,00	5	13,560414800	Fref±1.356 kHz	-0,055	PASS
	5,00	10	13,560414800	Fref±1.356 kHz	-0,055	PASS
40	5,00	0	13,560432400	Fref±1.356 kHz	-0,037	PASS
	5,00	2	13,560426900	Fref±1.356 kHz	-0,043	PASS
	5,00	5	13,560424700	Fref±1.356 kHz	-0,045	PASS
	5,00	10	13,560424700	Fref±1.356 kHz	-0,045	PASS
30	5,00	0	13,560455500	Fref±1.356 kHz	-0,014	PASS
	5,00	2	13,560448900	Fref±1.356 kHz	-0,021	PASS
	5,00	5	13,560446700	Fref±1.356 kHz	-0,023	PASS
	5,00	10	13,560445600	Fref±1.356 kHz	-0,024	PASS
20	4,25	0	13,560479600	Fref±1.356 kHz	0,010	PASS
	4,25	2	13,560475300	Fref±1.356 kHz	0,006	PASS
	4,25	5	13,560473100	Fref±1.356 kHz	0,003	PASS
	4,25	10	13,560470900	Fref±1.356 kHz	0,001	PASS
20	5,00	0	13,560479700	Fref±1.356 kHz	0,010	PASS
	5,00	2	13,560473100	Fref±1.356 kHz	0,003	PASS
	5,00	5	13,560470900	Fref±1.356 kHz	0,001	PASS
	5,00	10	13,560469800	Fref	0,000	
20	5,75	0	13,560479600	Fref±1.356 kHz	0,010	PASS
	5,75	2	13,560475300	Fref±1.356 kHz	0,006	PASS
	5,75	5	13,560473100	Fref±1.356 kHz	0,003	PASS
	5,75	10	13,560473100	Fref±1.356 kHz	0,003	PASS
10	5,00	0	13,560496100	Fref±1.356 kHz	0,026	PASS
	5,00	2	13,560492800	Fref±1.356 kHz	0,023	PASS
	5,00	5	13,560490600	Fref±1.356 kHz	0,021	PASS
	5,00	10	13,560490600	Fref±1.356 kHz	0,021	PASS
0	5,00	0	13,560500500	Fref±1.356 kHz	0,031	PASS
	5,00	2	13,560501600	Fref±1.356 kHz	0,032	PASS
	5,00	5	13,560501600	Fref±1.356 kHz	0,032	PASS
	5,00	10	13,560501600	Fref±1.356 kHz	0,032	PASS
-10	5,00	0	13,560480700	Fref±1.356 kHz	0,011	PASS
	5,00	2	13,560487300	Fref±1.356 kHz	0,018	PASS
	5,00	5	13,560489500	Fref±1.356 kHz	0,020	PASS
	5,00	10	13,560490600	Fref±1.356 kHz	0,021	PASS
-20	5,00	0	13,560434600	Fref±1.356 kHz	-0,038	PASS
	5,00	2	13,560450000	Fref±1.356 kHz	-0,023	PASS
	5,00	5	13,560454400	Fref±1.356 kHz	-0,019	PASS
	5,00	10	13,560456600	Fref±1.356 kHz	-0,016	PASS



20	6,38	0	13,560476400	Fref±1.356 kHz	0,015	PASS
	6,38	2	13,560467600	Fref±1.356 kHz	0,007	PASS
	6,38	5	13,560465400	Fref±1.356 kHz	0,004	PASS
	6,38	10	13,560464300	Fref±1.356 kHz	0,003	PASS
20	7,50	0	13,560474200	Fref±1.356 kHz	0,013	PASS
	7,50	2	13,560465400	Fref±1.356 kHz	0,004	PASS
	7,50	5	13,560462100	Fref±1.356 kHz	0,001	PASS
	7,50	10	13,560461000	Fref	0,000	
20	15,53	0	13,560477500	Fref±1.356 kHz	0,016	PASS
	15,53	2	13,560467600	Fref±1.356 kHz	0,007	PASS
	15,53	5	13,560463200	Fref±1.356 kHz	0,002	PASS
	15,53	10	13,560459900	Fref±1.356 kHz	-0,001	PASS