

7 Radiated Emission Measurements According to 90.210

E.U.T: DEKO2489 **S/N: 002**
Test Method: ANSI 63.4
Date: January 07, 2007
Relative Humidity: 26%
Ambient Temperature: 22c
Air Pressure: 1047hpa
Test Setup: Figure 13.e

Testing Engineer: Shimon Kozliner

Date 7.1.07

a. Test Results Summary & Conclusions

The E.U.T was found in compliance effective radiated power test

b. Limits of radiated emission

The test unit shall meet the limits of Table 13.b

Mask	Transmit Freq, (MHz)	Limit (dbc)	ERP (dbm)	Equivalent field strength limit 3m dbμV/m
H	0.009 – 10 th Harmonics	43+10logP	-13	84
G	0.009 – 10 th Harmonics	43+10logP	-13	84
J	0.009 – 10 th Harmonics	50+10logP	-20	77.4

Table 13.b Limits For radiated emission

*Equivalent field strength limit was calculated as follows:

$$E_{V/w} = \frac{1}{d} \sqrt{P_w \times 30 \times 1.64}$$

P=ERP in W

E=field strength in V/m

1.64=gain of ideal dipole

D=test distance in meter

c. Test Results

d. Test Results for radiated emission structure shows max radiated field more than 20dB below requirement level therefore no ERP measurement is required.

Table 13.b *Results for Radiated Emission Structure*

Channels	Band Freq. (MHz)	Transmit Freq (MHz)	Position	Freq. Range (MHz)	Plot No.	Pass/Fail
Uplink	806 - 824	806	Hor	0.009 – 0.15	<i>Rad Emis Struc/ 1</i>	Pass
			Vert		<i>Rad Emis Struc/ 2</i>	Pass
			Hor	0.15 -30	<i>Rad Emis Struc/ 3</i>	Pass
			Vert		<i>Rad Emis Struc/ 4</i>	Pass
			Vert	30 – 1,000	<i>Rad Emis Struc/ 5</i>	Pass
				1,000 – 2,900	<i>Rad Emis Struc/ 6</i>	Pass
				2,900 – 10,000	<i>Rad Emis Struc/ 7</i>	Pass
		815	Hor	0.009 – 0.15	<i>Rad Emis Struc/ 8</i>	Pass
			Vert		<i>Rad Emis Struc/ 9</i>	Pass
			Hor	0.15 -30	<i>Rad Emis Struc/ 10</i>	Pass
			Vert		<i>Rad Emis Struc/ 11</i>	Pass
			Vert	30 – 1,000	<i>Rad Emis Struc/ 12</i>	Pass
				1,000 – 2,900	<i>Rad Emis Struc/ 13</i>	Pass
				2,900 – 10,000	<i>Rad Emis Struc/ 14</i>	Pass
		824	Hor	0.009 – 0.15	<i>Rad Emis Struc/ 15</i>	Pass
			Vert		<i>Rad Emis Struc/ 16</i>	Pass
			Hor	0.15 -30	<i>Rad Emis Struc/ 17</i>	Pass
			Vert		<i>Rad Emis Struc/ 18</i>	Pass
			Vert	30 – 1,000	<i>Rad Emis Struc/ 19</i>	Pass
				1,000 – 2,900	<i>Rad Emis Struc/ 20</i>	Pass
				2,900 – 10,000	<i>Rad Emis Struc/ 21</i>	Pass
Uplink	896 - 901	896	Hor	0.009 – 0.15	<i>Rad Emis Struc/ 22</i>	Pass
			Vert		<i>Rad Emis Struc/ 23</i>	Pass
			Hor	0.15 -30	<i>Rad Emis Struc/ 24</i>	Pass
			Vert		<i>Rad Emis Struc/ 25</i>	Pass
			Vert	30 – 1,000	<i>Rad Emis Struc/ 26</i>	Pass
				1,000 – 2,900	<i>Rad Emis Struc/ 27</i>	Pass
				2,900 – 10,000	<i>Rad Emis Struc/ 28</i>	Pass
		898.5	Hor	0.009 – 0.15	<i>Rad Emis Struc/ 29</i>	Pass
			Vert		<i>Rad Emis Struc/ 30</i>	Pass
			Hor	0.15 -30	<i>Rad Emis Struc/ 31</i>	Pass
			Vert		<i>Rad Emis Struc/ 32</i>	Pass
			Vert	30 – 1,000	<i>Rad Emis Struc/ 33</i>	Pass
				1,000 – 2,900	<i>Rad Emis Struc/ 34</i>	Pass
				2,900 – 10,000	<i>Rad Emis Struc/ 35</i>	Pass
		901	Hor	0.009 – 0.15	<i>Rad Emis Struc/ 36</i>	Pass
			Vert		<i>Rad Emis Struc/ 37</i>	Pass
			Hor	0.15 -30	<i>Rad Emis Struc/ 38</i>	Pass

Channels	Band Freq. (MHz)	Transmit Freq (MHz)	Position	Freq. Range (MHz)	Plot No.	Pass/Fail
Downlink	851 - 869	851	Vert		<i>Rad Emis Struc/ 39</i>	Pass
			Vert	30 – 1,000	<i>Rad Emis Struc/ 40</i>	Pass
				1,000 – 2,900	<i>Rad Emis Struc/ 41</i>	Pass
				2,900 – 10,000	<i>Rad Emis Struc/ 42</i>	Pass
					<i>Rad Emis Struc/ 43</i>	Pass
			Hor	0.009 – 0.15	<i>Rad Emis Struc/ 44</i>	Pass
			Vert		<i>Rad Emis Struc/ 45</i>	Pass
			Hor	0.15 -30	<i>Rad Emis Struc/ 46</i>	Pass
			Vert		<i>Rad Emis Struc/ 47</i>	Pass
			Vert	30 – 1,000	<i>Rad Emis Struc/ 48</i>	Pass
				1,000 – 2,900	<i>Rad Emis Struc/ 49</i>	Pass
				2,900 – 10,000	<i>Rad Emis Struc/ 50</i>	Pass
					<i>Rad Emis Struc/ 51</i>	Pass
		860	Hor	0.009 – 0.15	<i>Rad Emis Struc/ 52</i>	Pass
			Vert		<i>Rad Emis Struc/ 53</i>	Pass
			Hor	0.15 -30	<i>Rad Emis Struc/ 54</i>	Pass
			Vert		<i>Rad Emis Struc/ 55</i>	Pass
		869	Vert	30 – 1,000	<i>Rad Emis Struc/ 56</i>	Pass
				1,000 – 2,900	<i>Rad Emis Struc/ 57</i>	Pass
				2,900 – 10,000	<i>Rad Emis Struc/ 58</i>	Pass
					<i>Rad Emis Struc/ 59</i>	Pass
			Hor	0.009 – 0.15	<i>Rad Emis Struc/ 60</i>	Pass
			Vert		<i>Rad Emis Struc/ 61</i>	Pass
			Hor	0.15 -30	<i>Rad Emis Struc/ 62</i>	Pass
			Vert		<i>Rad Emis Struc/ 63</i>	Pass
Downlink	935 - 940	935	Hor	0.009 – 0.15	<i>Rad Emis Struc/ 64</i>	Pass
			Vert		<i>Rad Emis Struc/ 65</i>	Pass
			Hor	0.15 -30	<i>Rad Emis Struc/ 66</i>	Pass
			Vert		<i>Rad Emis Struc/ 67</i>	Pass
			Vert	30 – 1,000	<i>Rad Emis Struc/ 68</i>	Pass
				1,000 – 2,900	<i>Rad Emis Struc/ 69</i>	Pass
				2,900 – 10,000	<i>Rad Emis Struc/ 70</i>	Pass
					<i>Rad Emis Struc/ 71</i>	Pass
		937.5	Hor	0.009 – 0.15	<i>Rad Emis Struc/ 72</i>	Pass
			Vert		<i>Rad Emis Struc/ 73</i>	Pass
			Hor	0.15 -30	<i>Rad Emis Struc/ 74</i>	Pass
			Vert		<i>Rad Emis Struc/ 75</i>	Pass
			Vert	30 – 1,000	<i>Rad Emis Struc/ 76</i>	Pass
				1,000 – 2,900	<i>Rad Emis Struc/ 77</i>	Pass
				2,900 – 10,000	<i>Rad Emis Struc/ 78</i>	Pass
					<i>Rad Emis Struc/ 79</i>	Pass
		940	Hor	0.009 – 0.15	<i>Rad Emis Struc/ 80</i>	Pass
			Vert		<i>Rad Emis Struc/ 81</i>	Pass
			Hor	0.15 -30	<i>Rad Emis Struc/ 82</i>	Pass
			Vert		<i>Rad Emis Struc/ 83</i>	Pass
			Vert	30 – 1,000	<i>Rad Emis Struc/ 84</i>	Pass
				1,000 – 2,900	<i>Rad Emis Struc/ 85</i>	Pass

Channels	Band Freq. (MHz)	Transmit Freq (MHz)	Position	Freq. Range (MHz)	Plot No.	Pass/Fail
				2,900 – 10,000	<i>Rad Emis Struc/ 84</i>	Pass

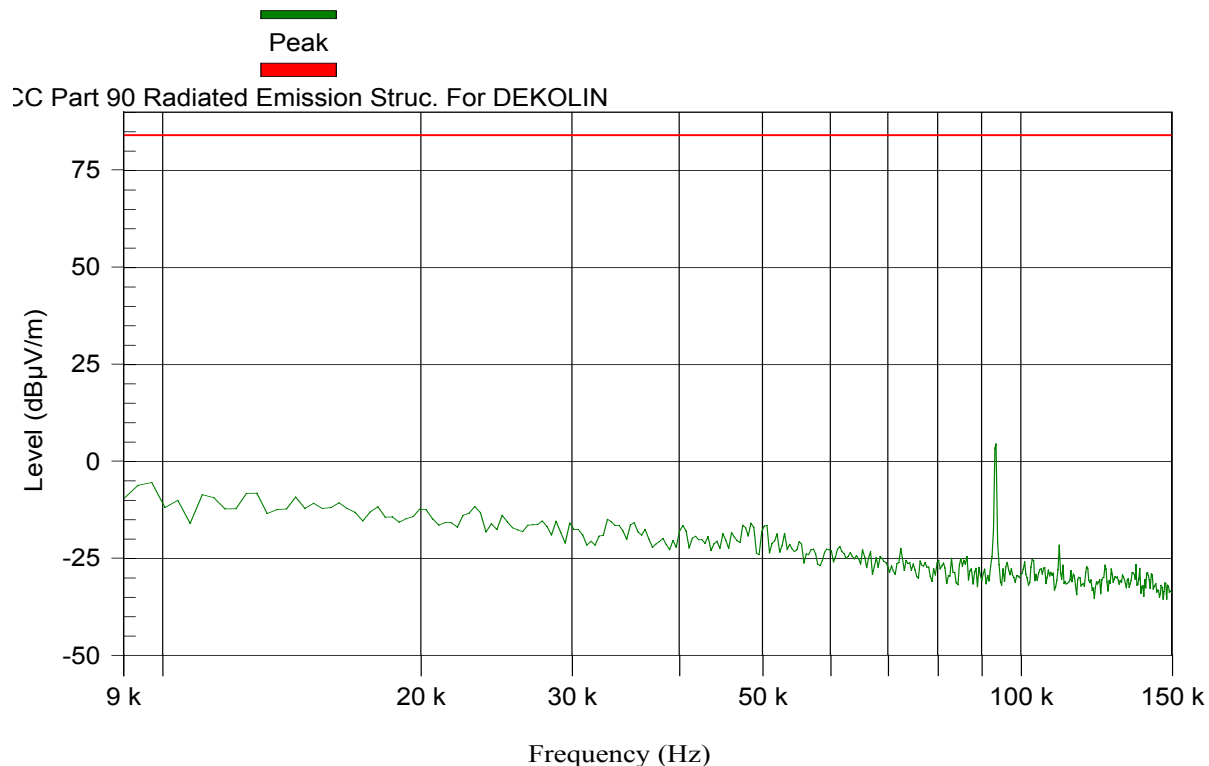
Test Results Plot No 4

FCC Part 90 0.009-0.15MHz (UL-1 f=806MHz,Input Pwr=-20dBm).

HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
1:57:37 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

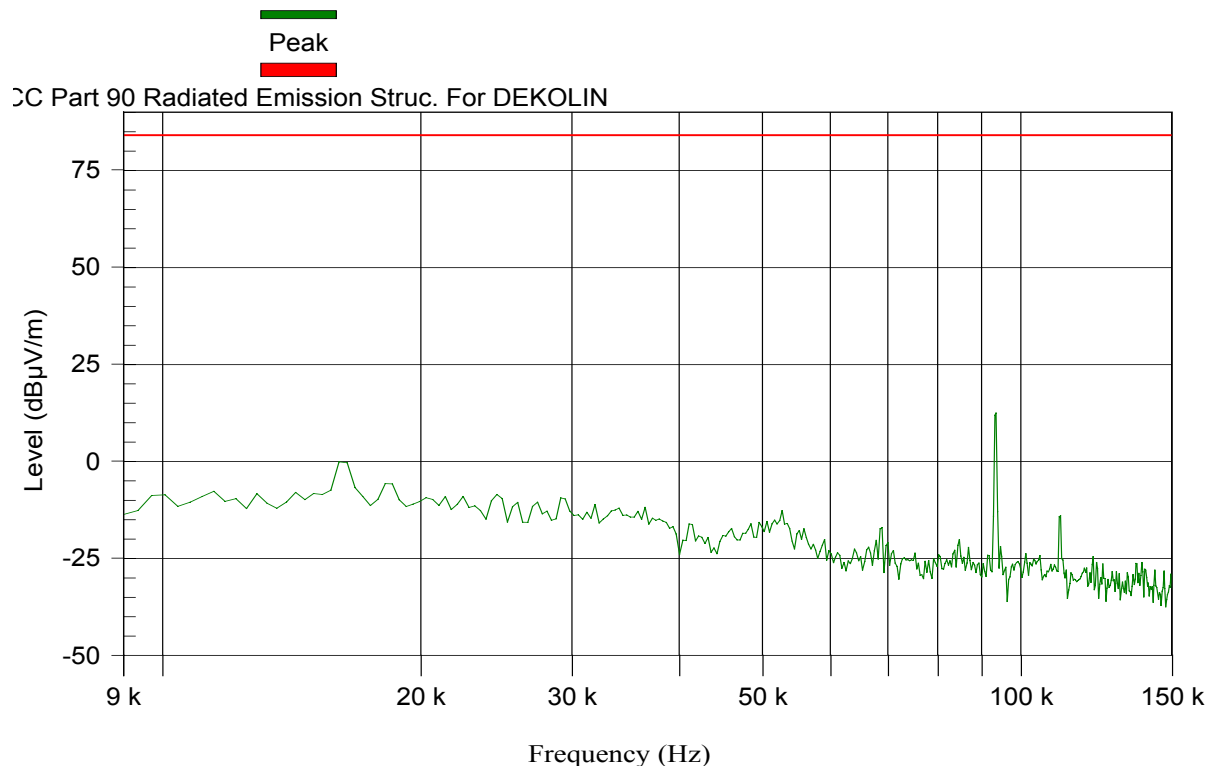
Test Results Plot No 5

FCC Part 90 0.009-0.15MHz (UL-1 f=806MHz,Input Pwr=-20dBm).

VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
2:38:23 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

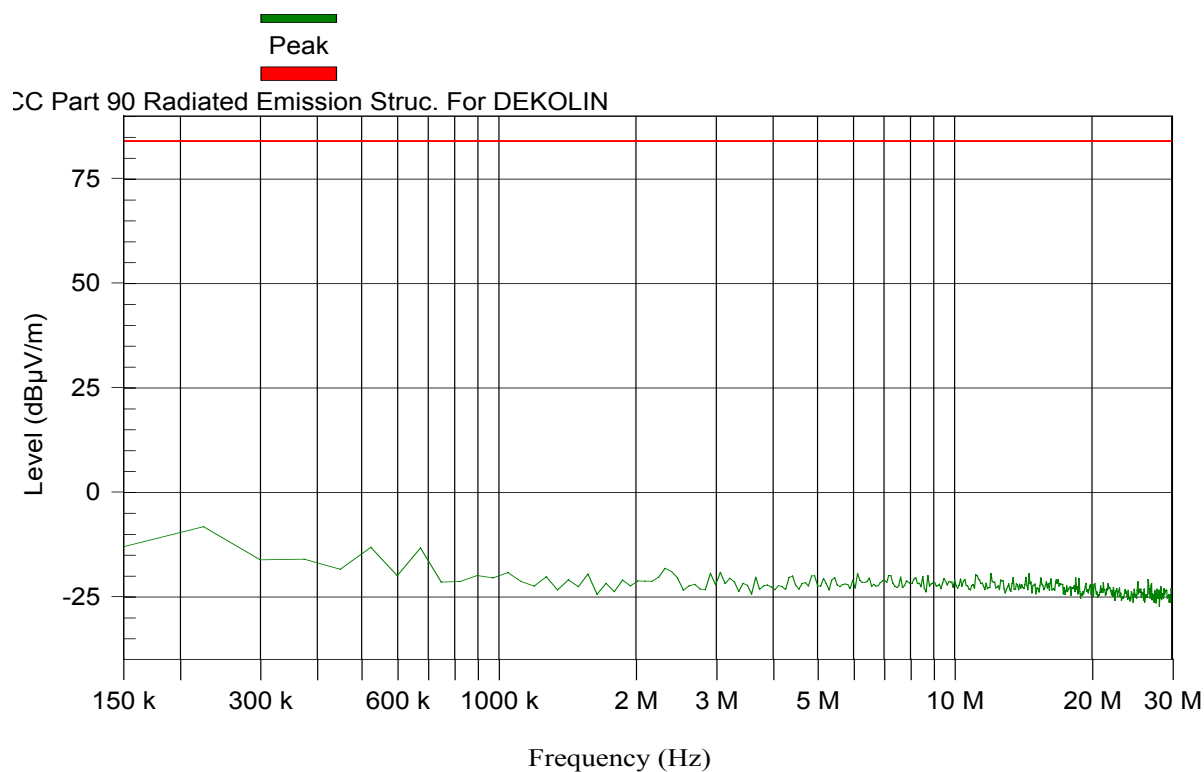
None

Test Results Plot No 6

**FCC Part 90 0.15-30MHz (UL-1 f=806MHz,Input Pwr=-20dBm).
HOR**

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
1:59:39 PM



MAXIMUM RESULT DEVIATION:

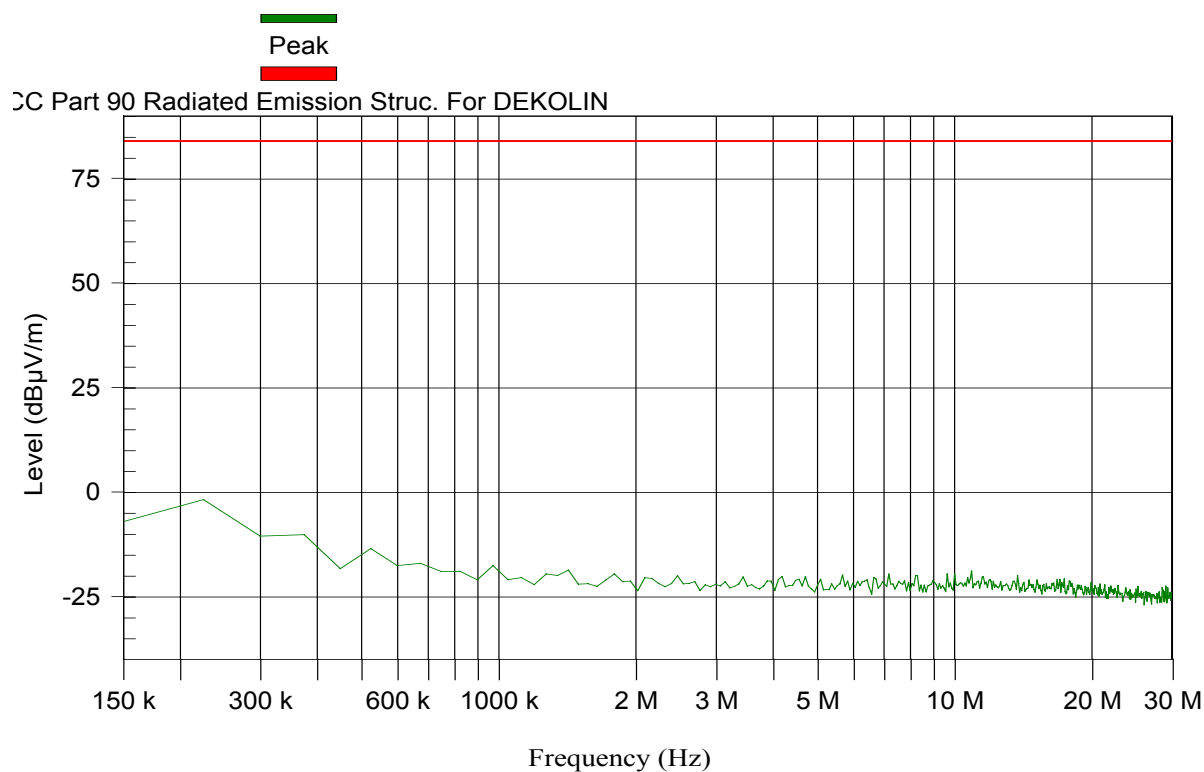
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 7

FCC Part 90 0.15-30MHz (UL-1 f=806MHz,Input Pwr=-20dBm).
VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
2:40:19 PM



MAXIMUM RESULT DEVIATION:

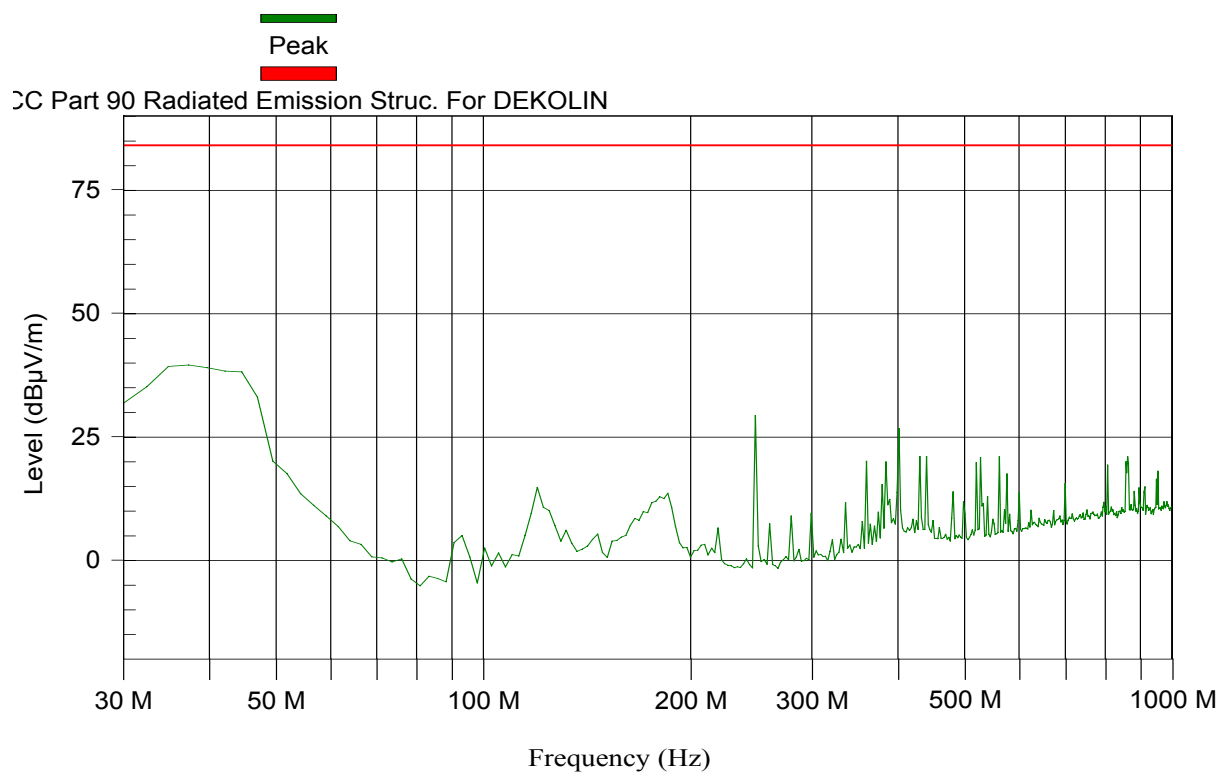
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 8

FCC Part 90 30-1000MHz (UL-1 f=806MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto: 9.7 s
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
11:35:59 AM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

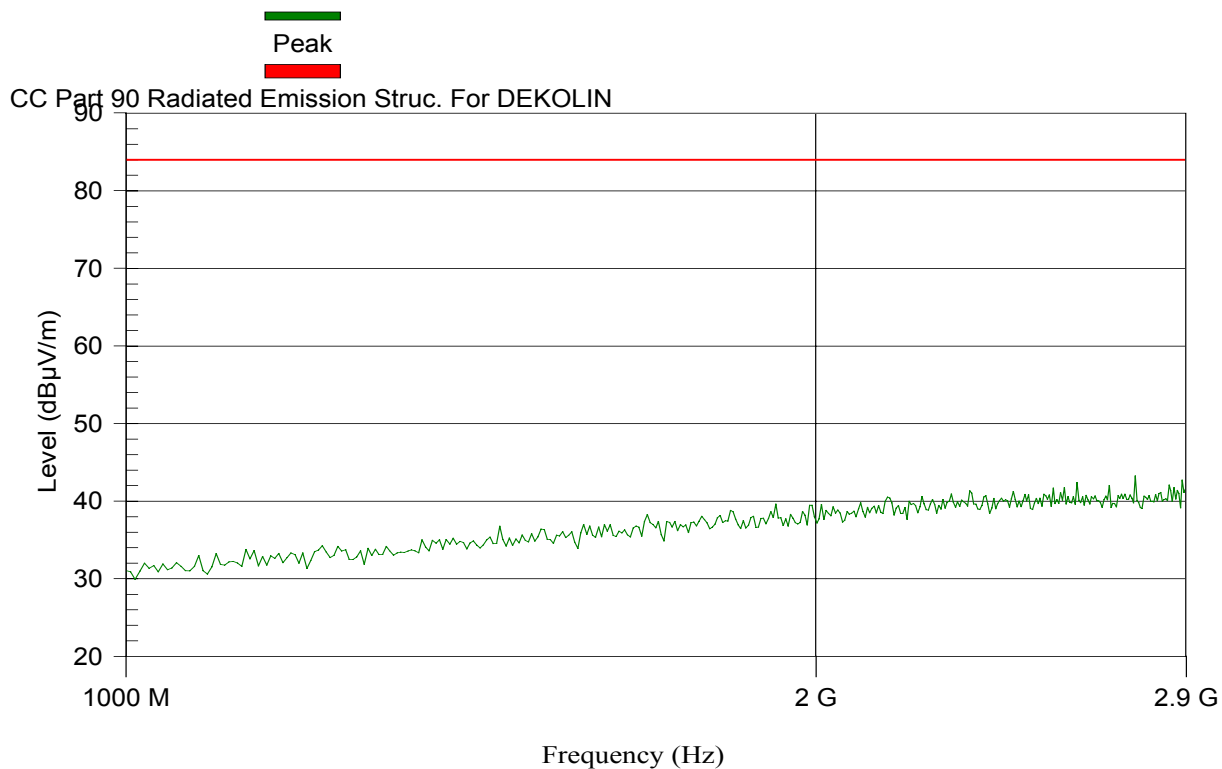
None

Test Results Plot No 9

FCC Part 90 1000-2900MHz (UL-1 f=806MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007
12:50:33 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

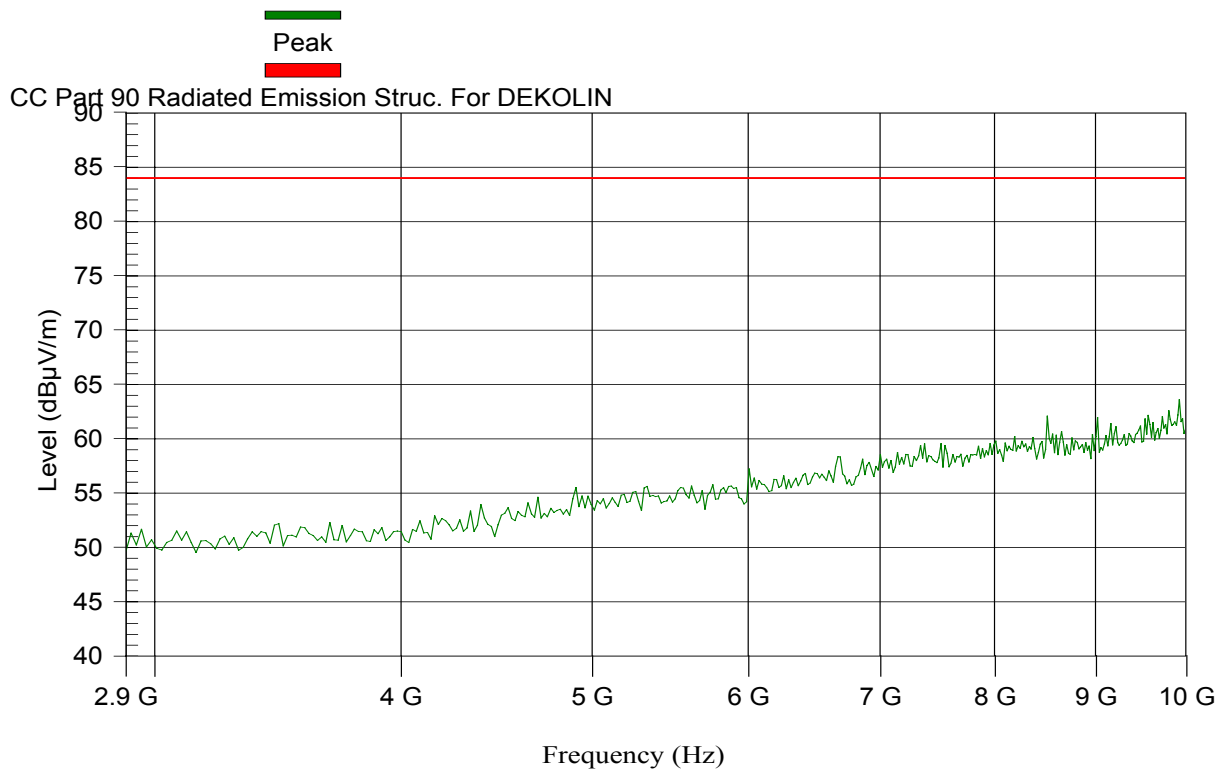
None

Test Results Plot No 10

FCC Part 90 2.9-10GHz (UL-1 f=806MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 18.61 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007 5:42:34 PM


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	8509	62.1	84	Pass	180	1	V
2	9023.75	62	84	Pass	90	1	H
3	9538.5	61.8	84	Pass	180	1.3	H
4	9574	62.2	84	Pass	180	1.3	H
5	9733.75	62.1	84	Pass	90	1	H
6	9804.75	62.6	84	Pass	270	1	H
7	9822.5	61.8	84	Pass	270	1.6	H
8	9911.25	62.2	84	Pass	0	1	H

9	9929	63.6	84	Pass	180	1	H
10	9964.5	61.9	84	Pass	180	1.3	V

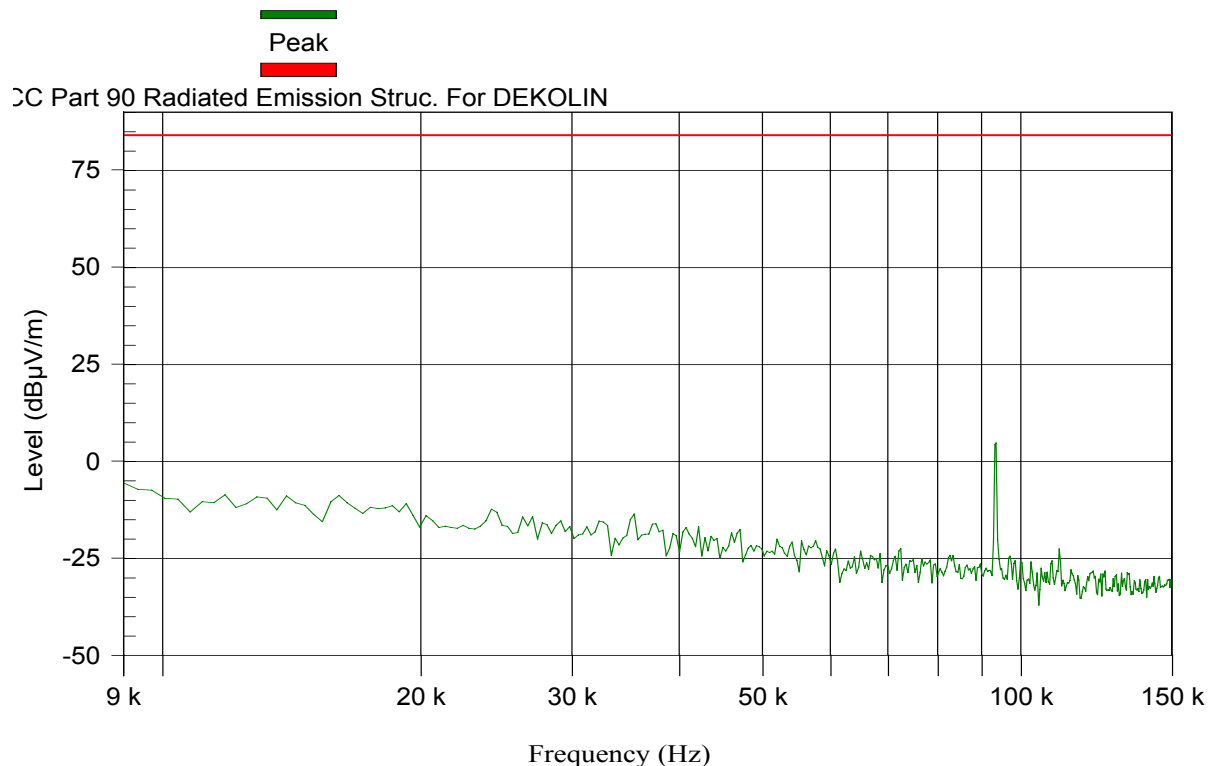
Test Results Plot No 11

FCC Part 90 0.009-0.15MHz (UL-1 f=815MHz,Input Pwr=-20dBm).

HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
2:02:30 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

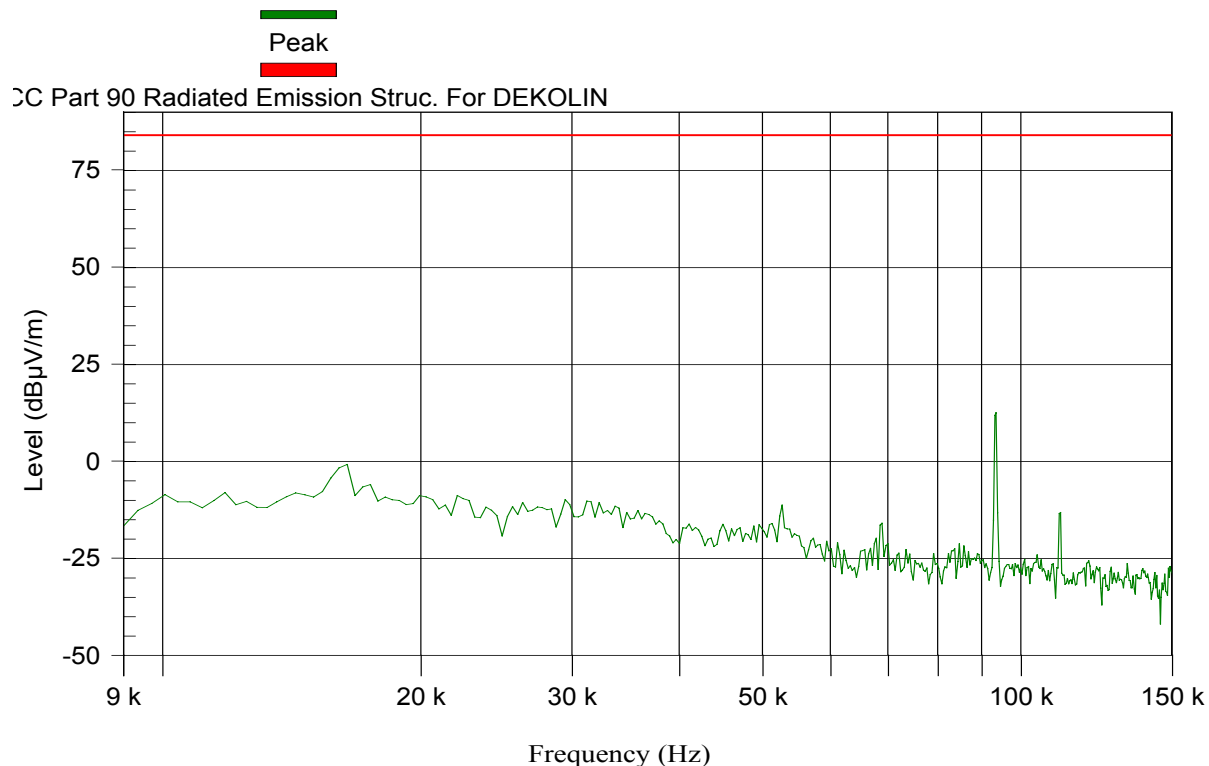
Test Results Plot No 12

FCC Part 90 0.009-0.15MHz (UL-1 f=815MHz,Input Pwr=-20dBm).

VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
2:43:52 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

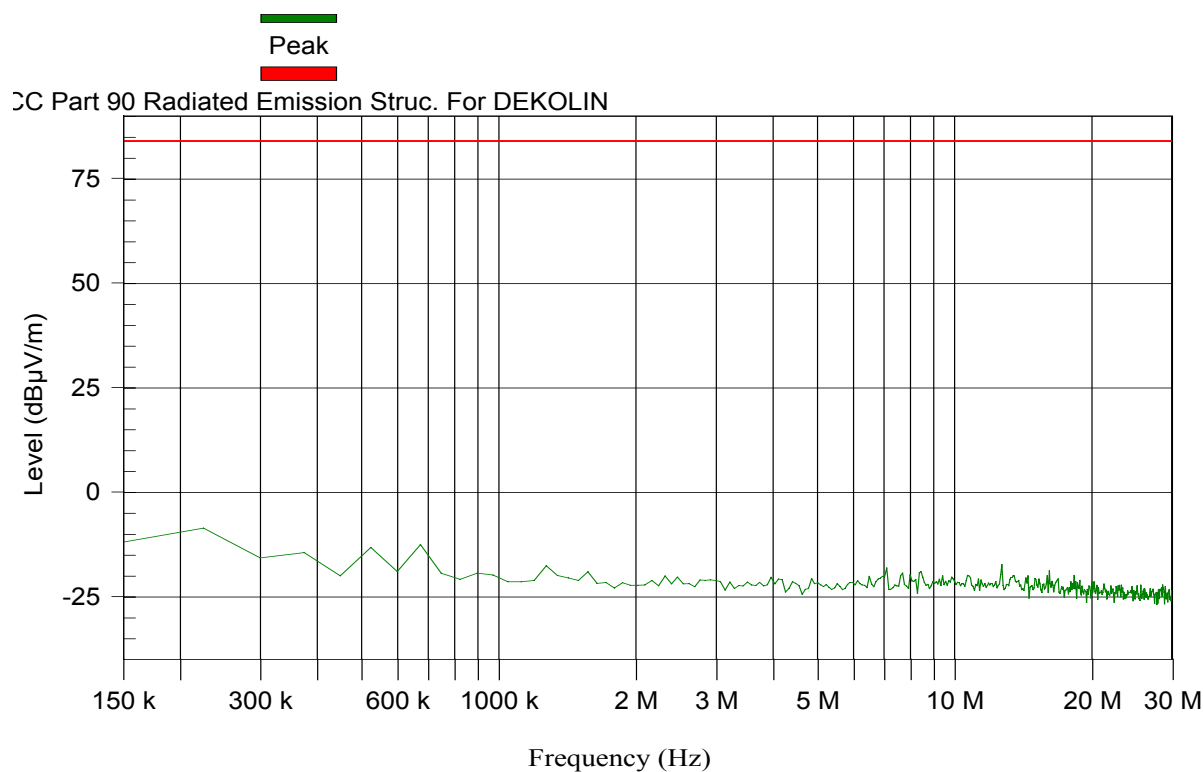
None

Test Results Plot No 13

FCC Part 90 0.15-30MHz (UL-1 f=815MHz,Input Pwr=-20dBm).
HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
2:04:31 PM



MAXIMUM RESULT DEVIATION:

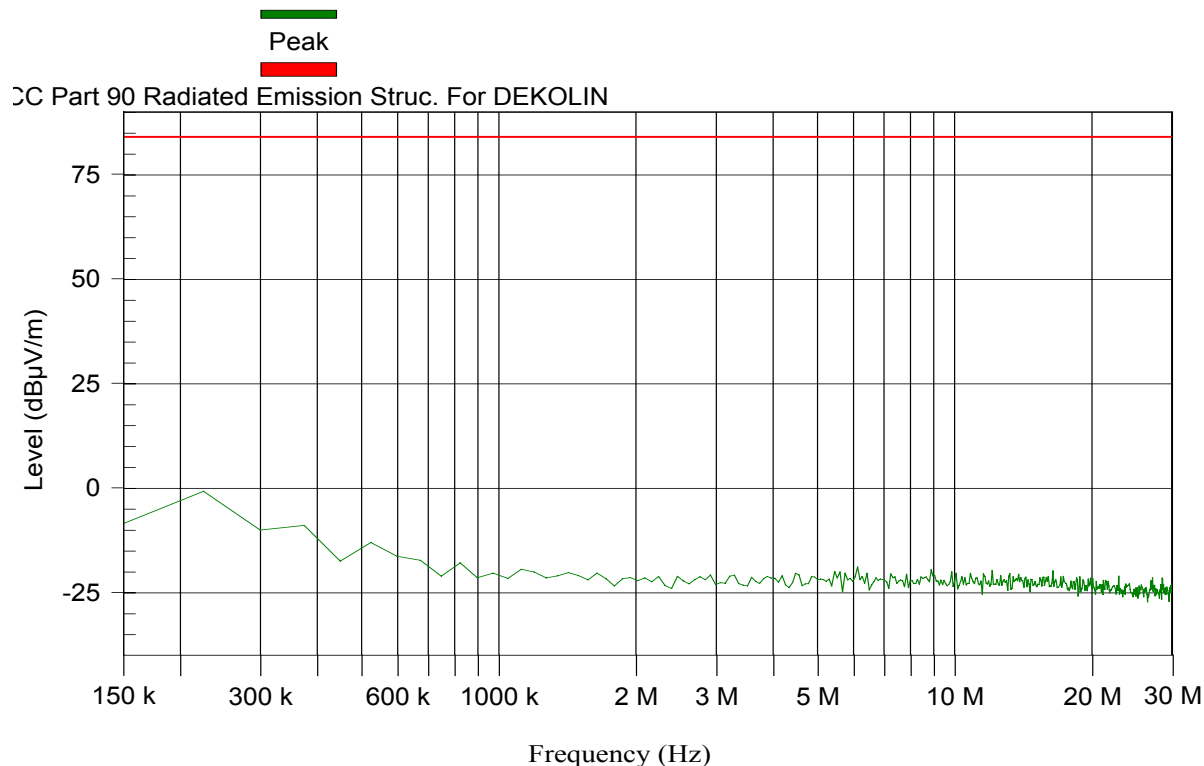
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 14

FCC Part 90 0.15-30MHz (UL-1 f=815Hz,Input Pwr=-20dBm). VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
2:45:53 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

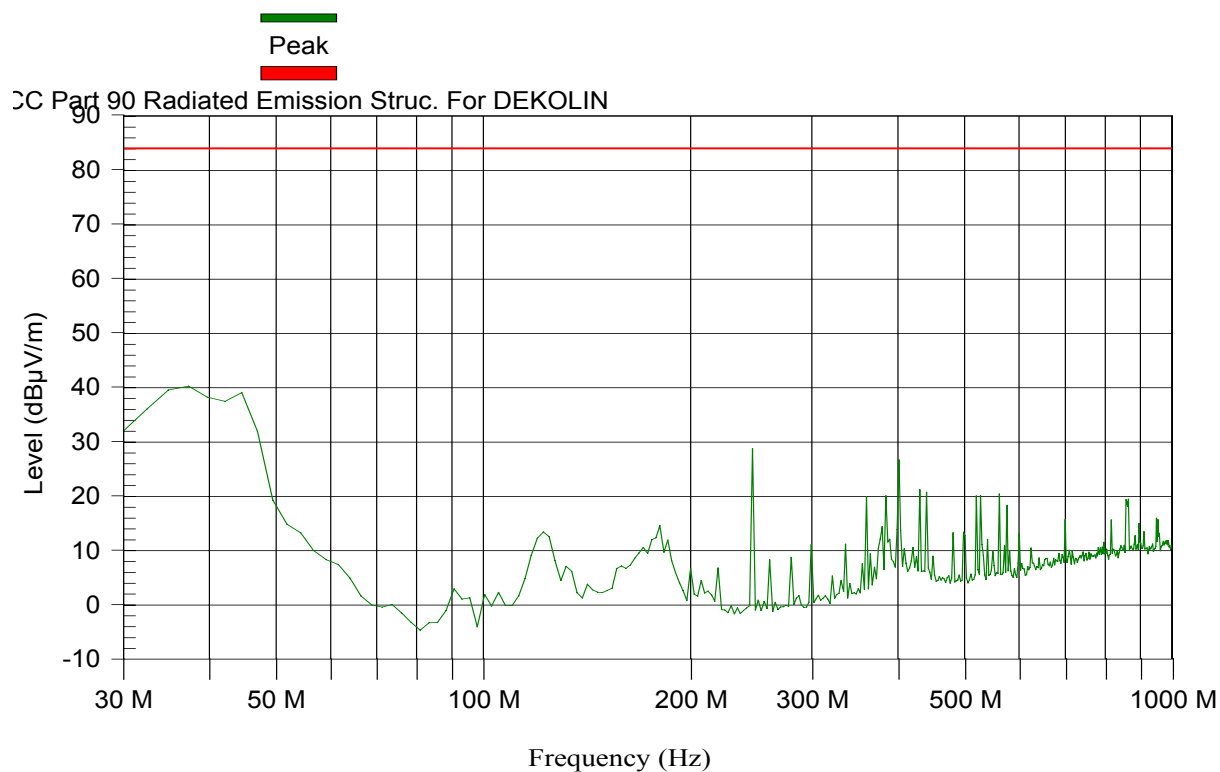
None

Test Results Plot No 15

FCC Part 90 30-1000MHz (UL-1 f=815MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto: 9.7 s
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
11:44:17 AM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

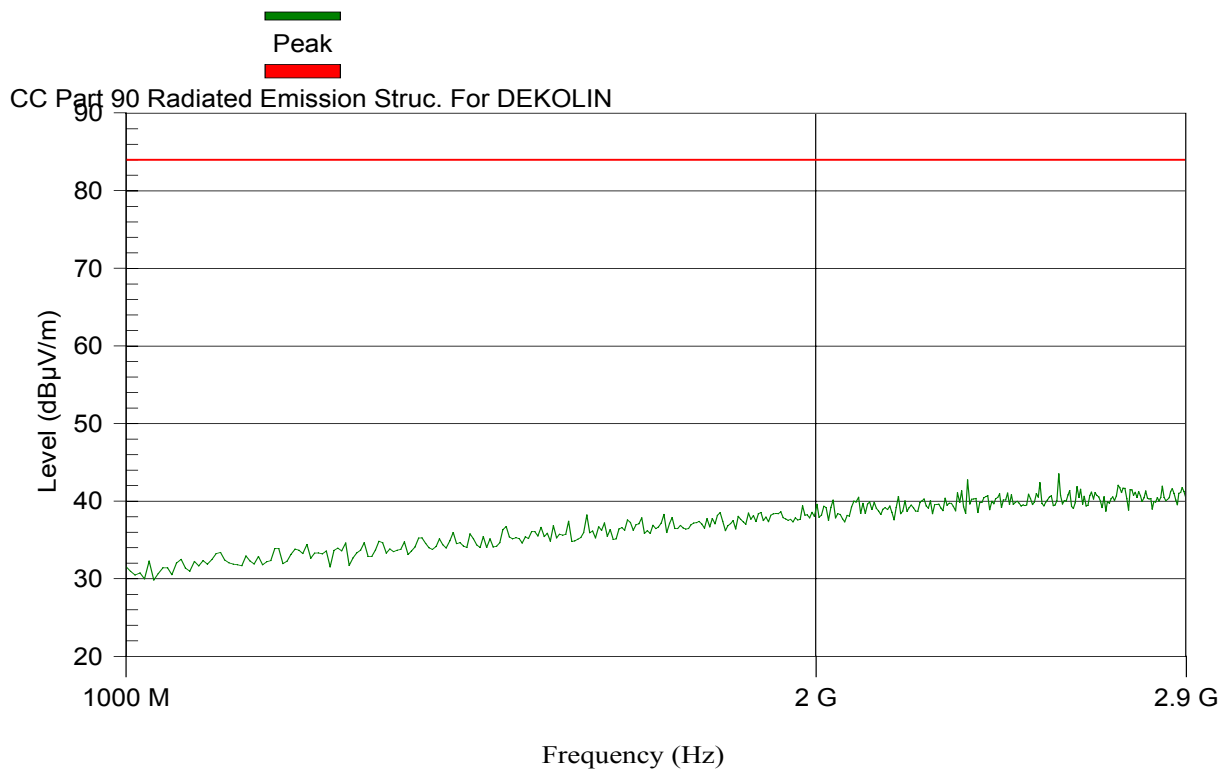
None

Test Results Plot No 16

FCC Part 90 1000-2900MHz (UL-1 f=815MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007
12:56:16 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

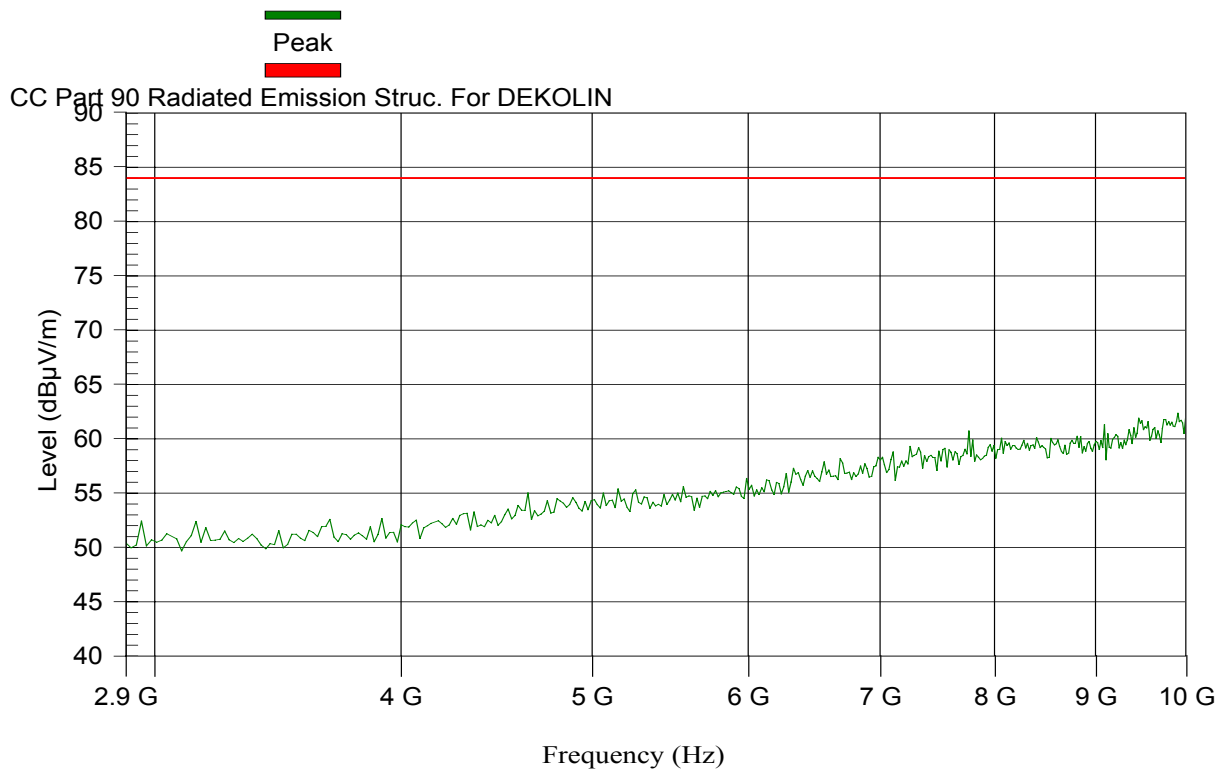
None

Test Results Plot No 17

FCC Part 90 2.9-10GHz (UL-1 f=815MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 18.61 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS:Tuesday, January 30, 2007 5:47:22 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	9467.5	61.9	84	Pass	270	1	H
2	9503	61.7	84	Pass	90	1	H
3	9574	61.6	84	Pass	270	1.6	V
4	9751.5	61.8	84	Pass	180	1.6	V
5	9769.25	61.8	84	Pass	90	1	H
6	9893.5	61.6	84	Pass	90	1	V
7	9911.25	62.4	84	Pass	270	1.6	V
8	9929	61.6	84	Pass	180	1	V

9	9946.75	61.7	84	Pass	90	1.3	H
10	10000	62.1	84	Pass	90	1.6	H

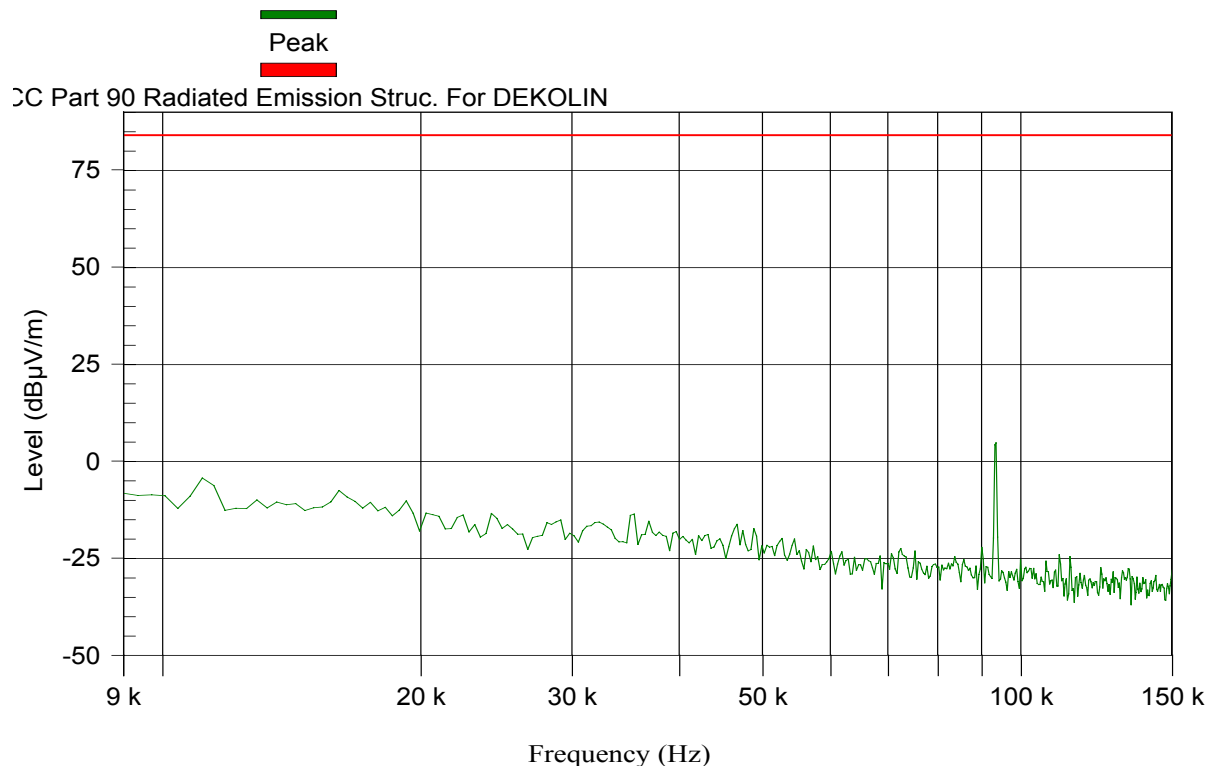
Test Results Plot No 18

FCC Part 90 0.009-0.15MHz (UL-1 f=824MHz,Input Pwr=-20dBm).

HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
2:07:29 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

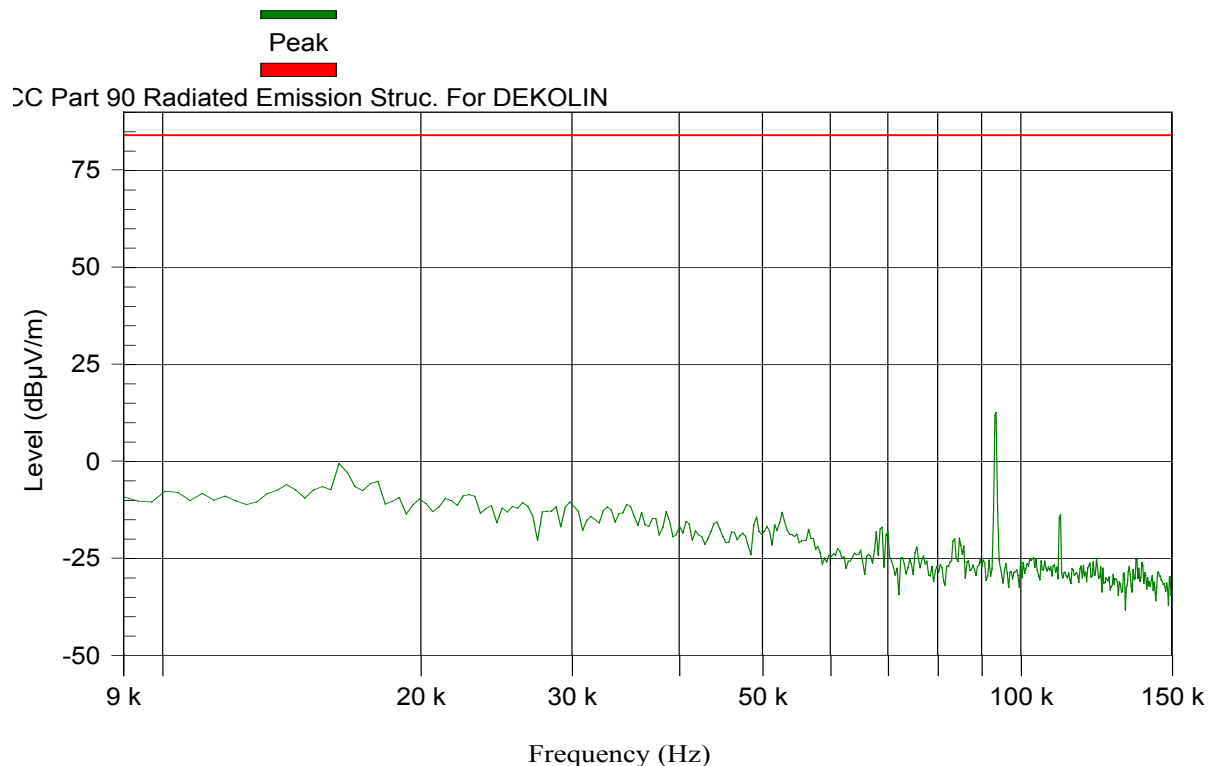
Test Results Plot No 19

FCC Part 90 0.009-0.15MHz (UL-1 f=824MHz,Input Pwr=-20dBm).

VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
2:50:53 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

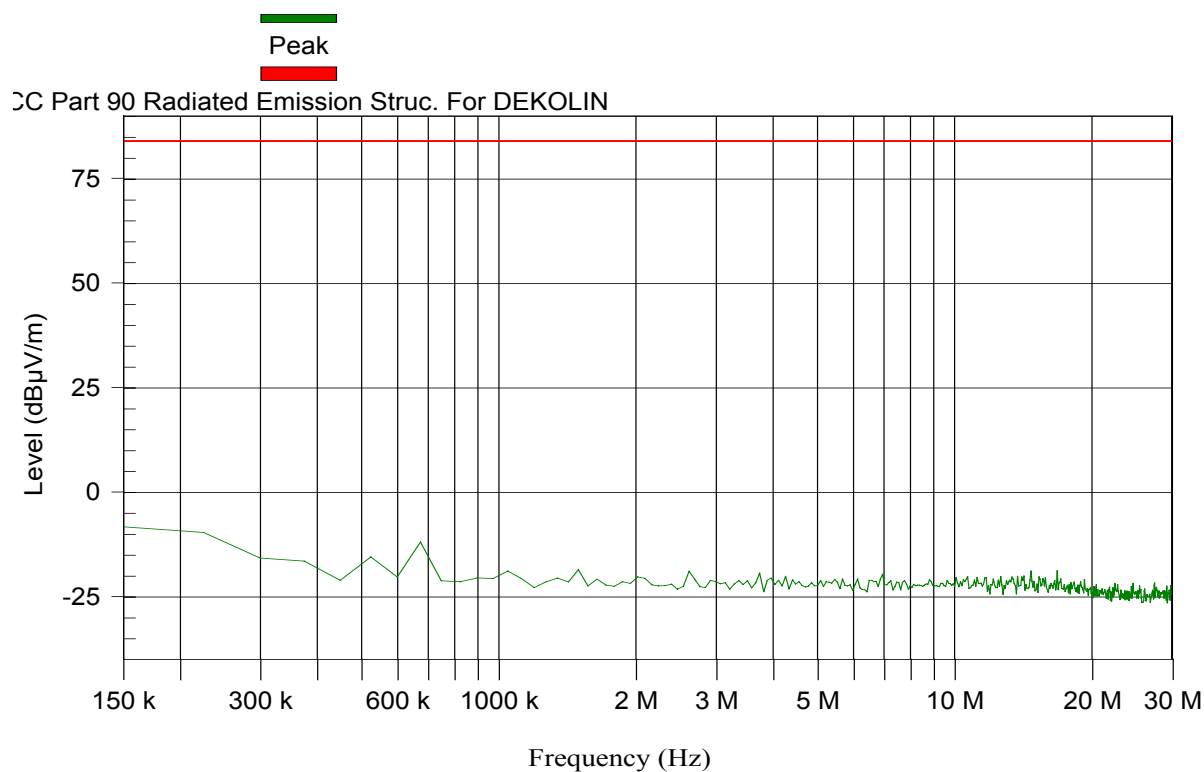
None

Test Results Plot No 20

**FCC Part 90 0.15-30MHz (UL-1 f=824MHz,Input Pwr=-20dBm).
HOR**

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
2:12:40 PM



MAXIMUM RESULT DEVIATION:

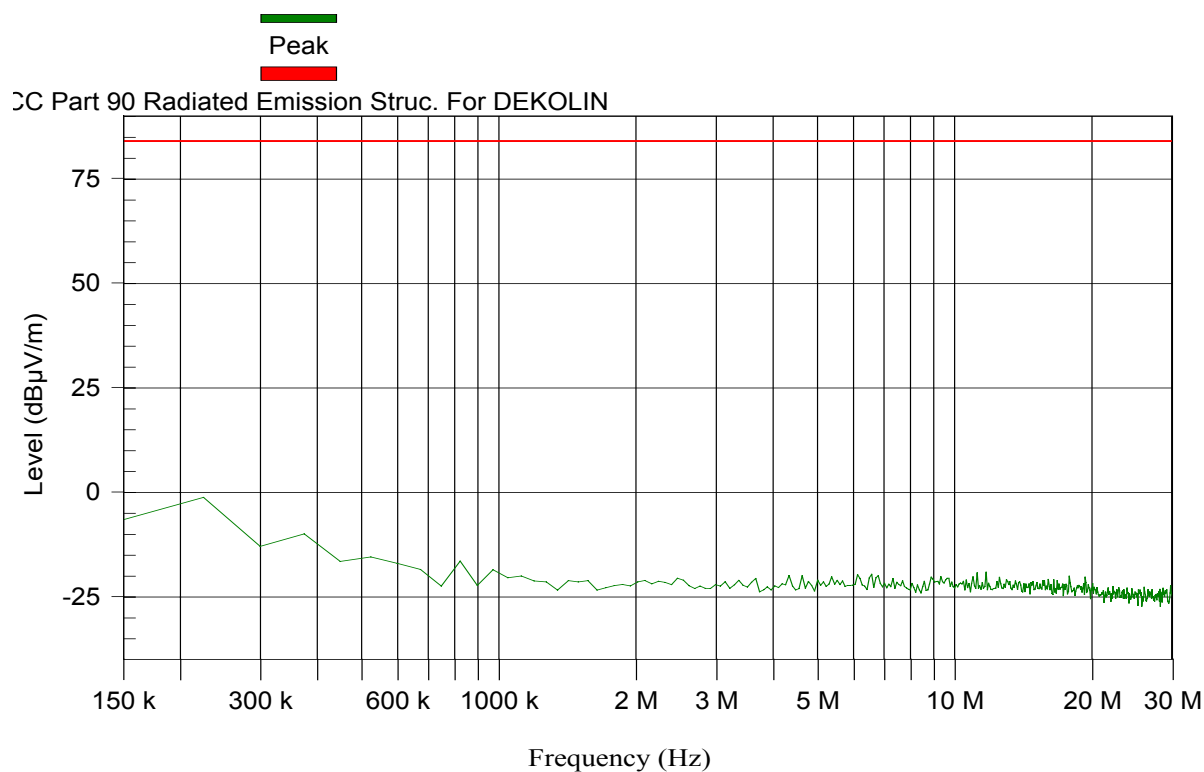
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 21

**FCC Part 90 0.15-30MHz (UL-1 f=824MHz,Input Pwr=-20dBm).
VER**

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
2:52:36 PM



MAXIMUM RESULT DEVIATION:

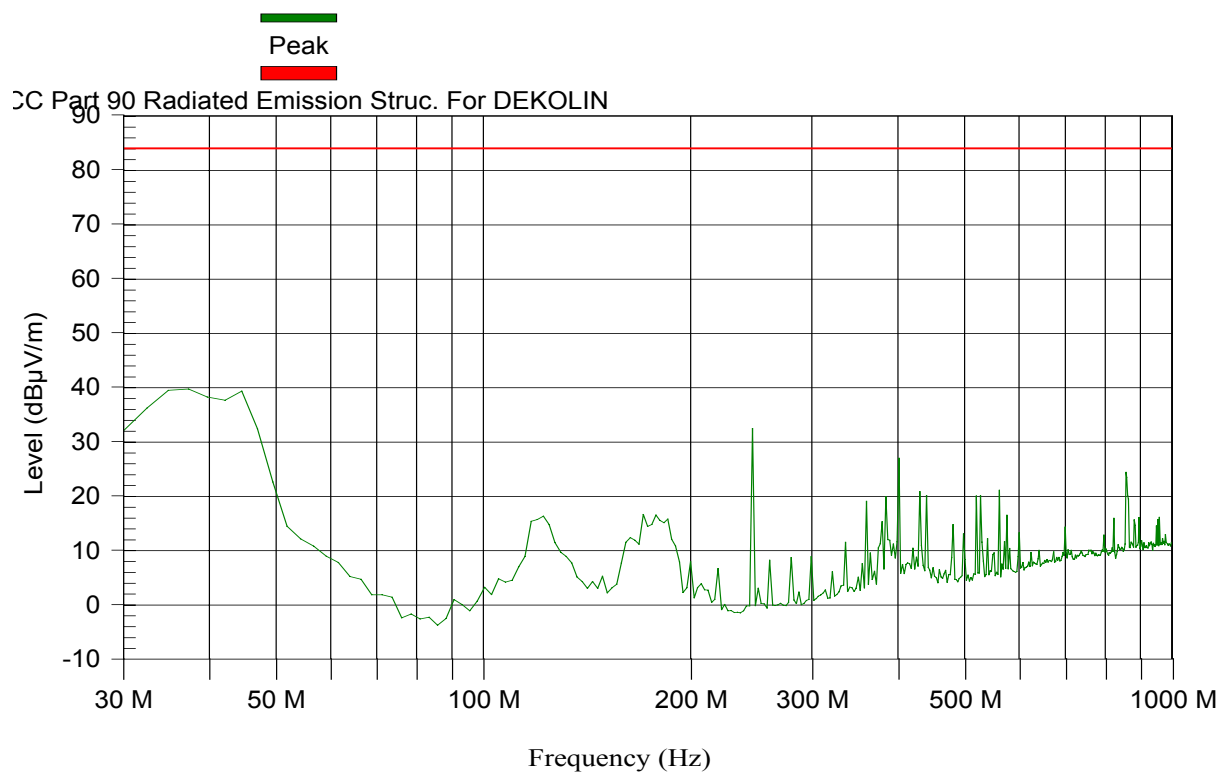
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 22

FCC Part 90 30-1000MHz (UL-1 f=824MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto: 9.7 s
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
11:57:23 AM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

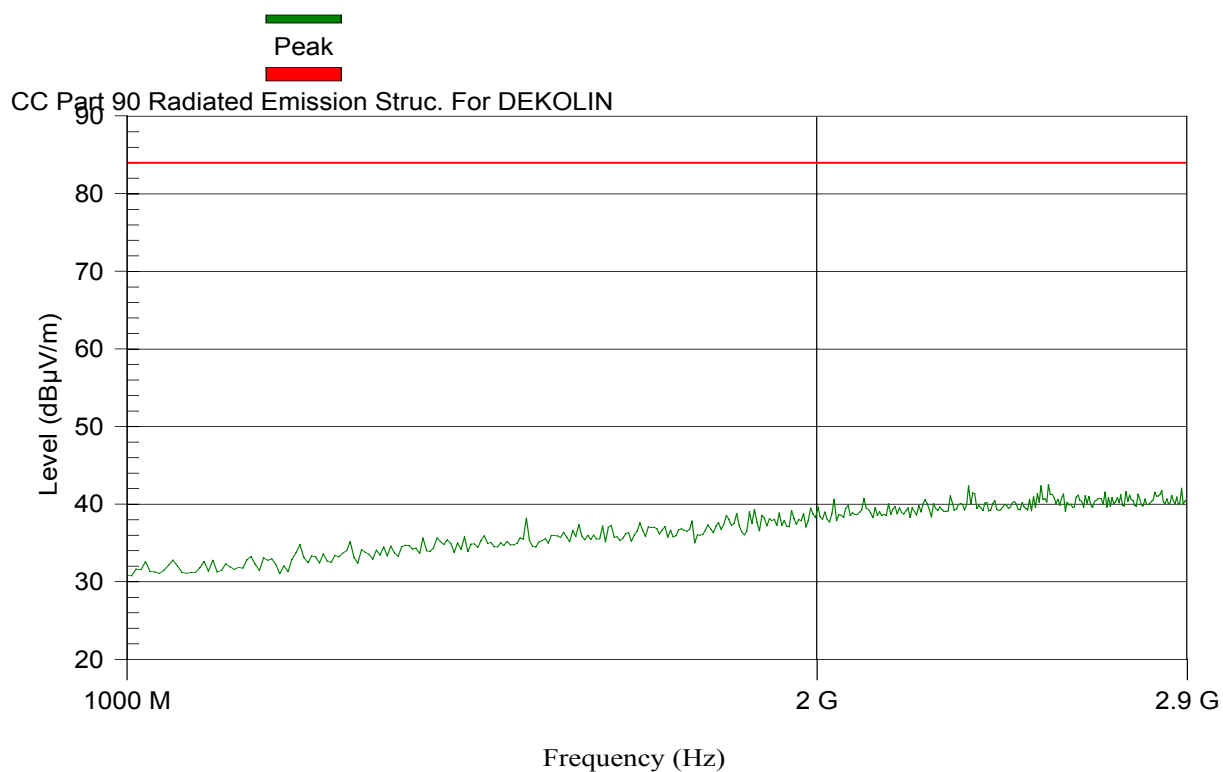
None

Test Results Plot No 23

FCC Part 90 1000-2900MHz (UL-1 f=824MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007
1:02:03 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

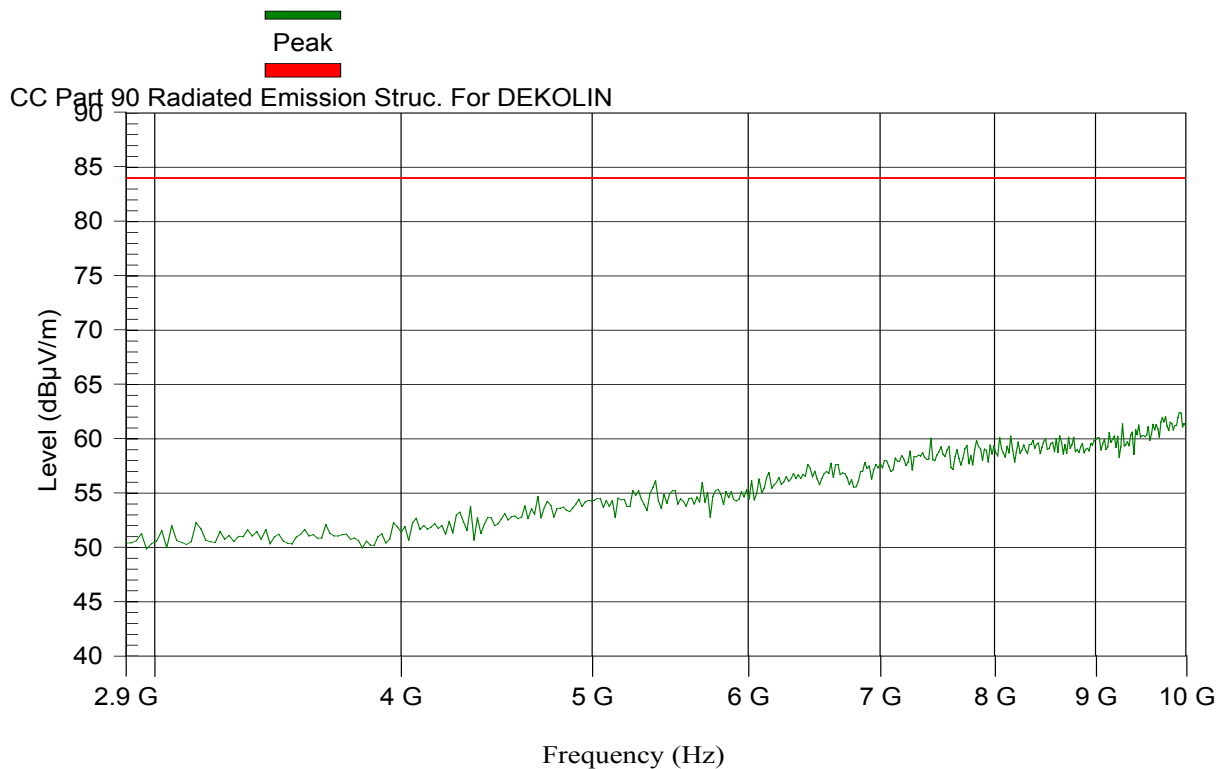
None

Test Results Plot No 24

FCC Part 90 2.9-10GHz (UL-1 f=824MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 18.61 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS:Tuesday, January 30, 2007 5:51:27 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	9290	61.4	84	Pass	180	1.6	V
2	9627.25	61.3	84	Pass	270	1.6	H
3	9733.75	62	84	Pass	180	1.3	H
4	9769.25	62	84	Pass	270	1.6	V
5	9822.5	61.5	84	Pass	270	1	V
6	9840.25	61.4	84	Pass	90	1.3	H
7	9911.25	62	84	Pass	180	1	H
8	9929	62.4	84	Pass	0	1	V

9	9946.75	62.4	84	Pass	270	1.3	H
10	9982.25	61.4	84	Pass	0	1	V

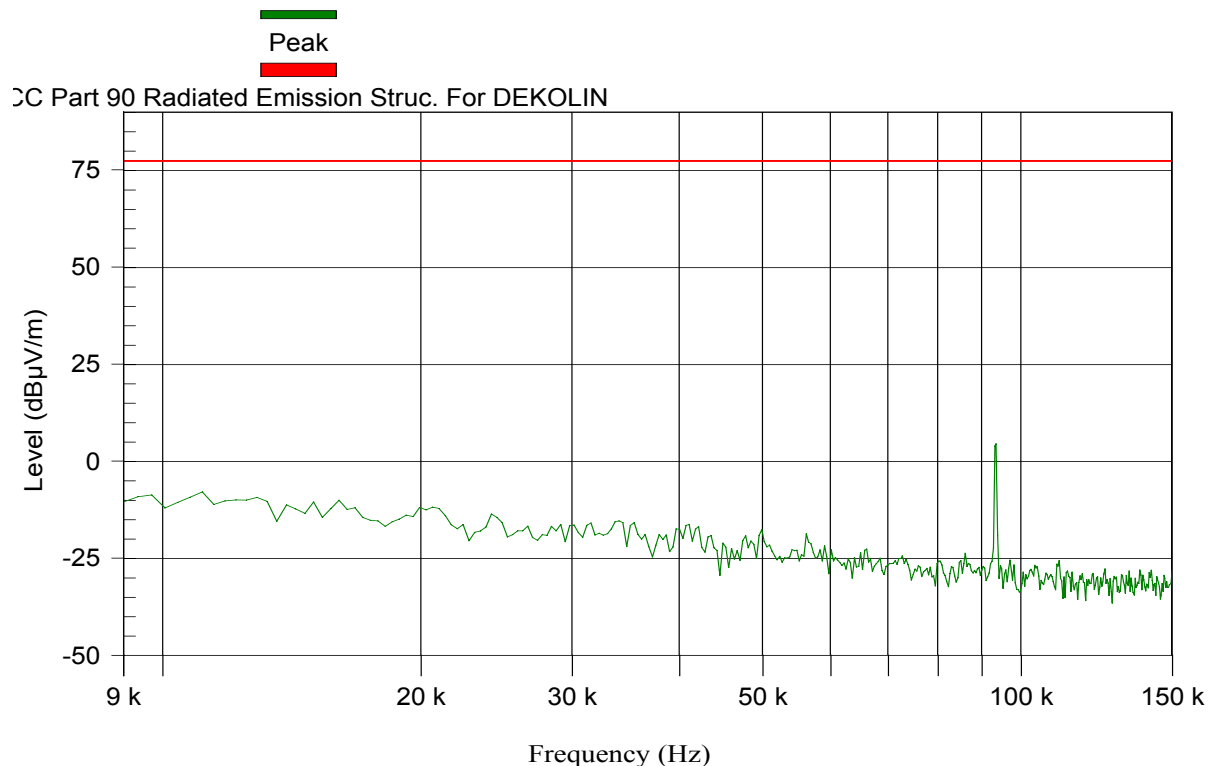
Test Results Plot No 25

FCC Part 90 0.009-0.15MHz (UL-2 f=896MHz,Input Pwr=-20dBm).

HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
2:22:52 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

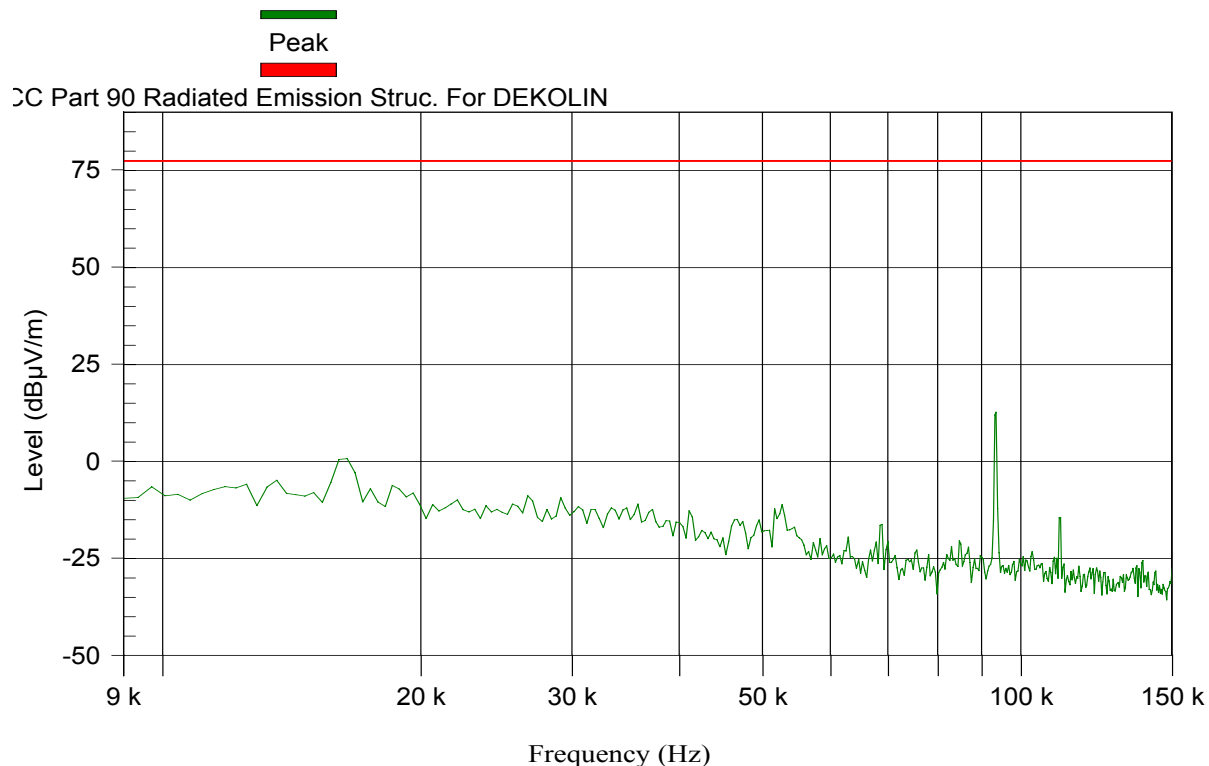
Test Results Plot No 26

FCC Part 90 0.009-0.15MHz (UL-2 f=896MHz,Input Pwr=-20dBm).

VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
2:55:50 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

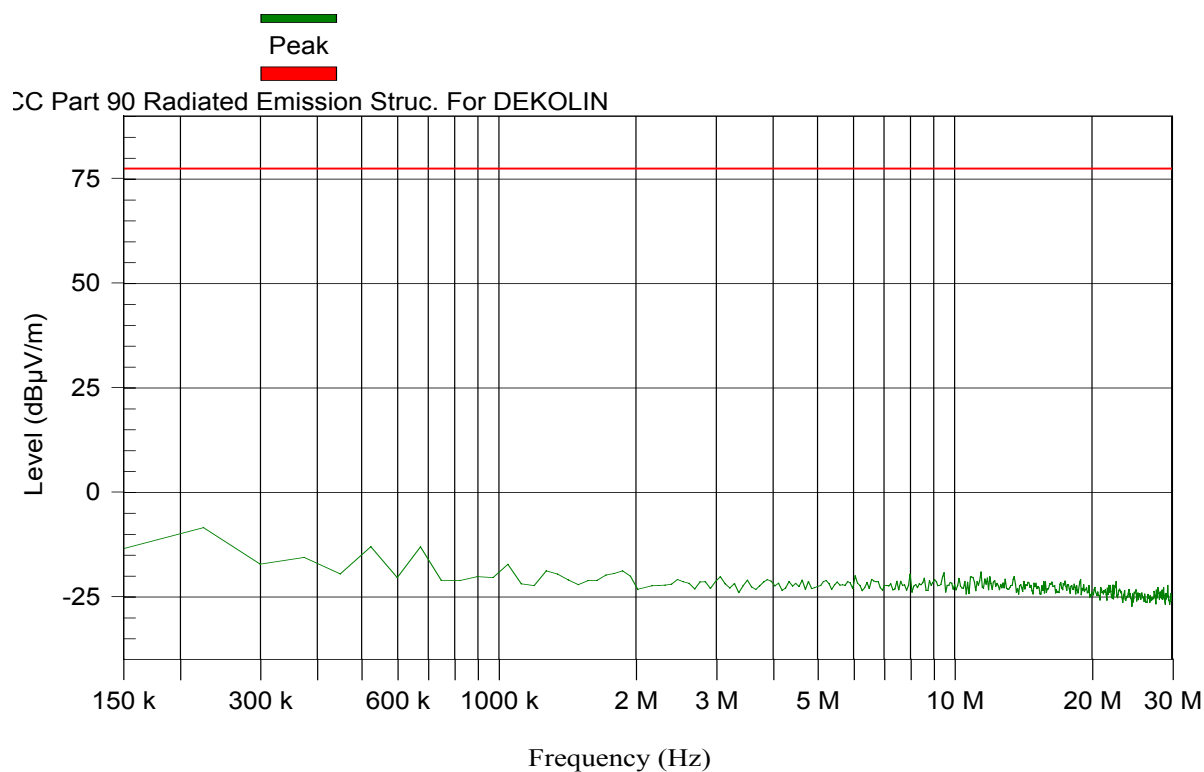
None

Test Results Plot No 27

FCC Part 90 0.15-30MHz (UL-2 f=896MHz,Input Pwr=-20dBm).
HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
2:25:21 PM



MAXIMUM RESULT DEVIATION:

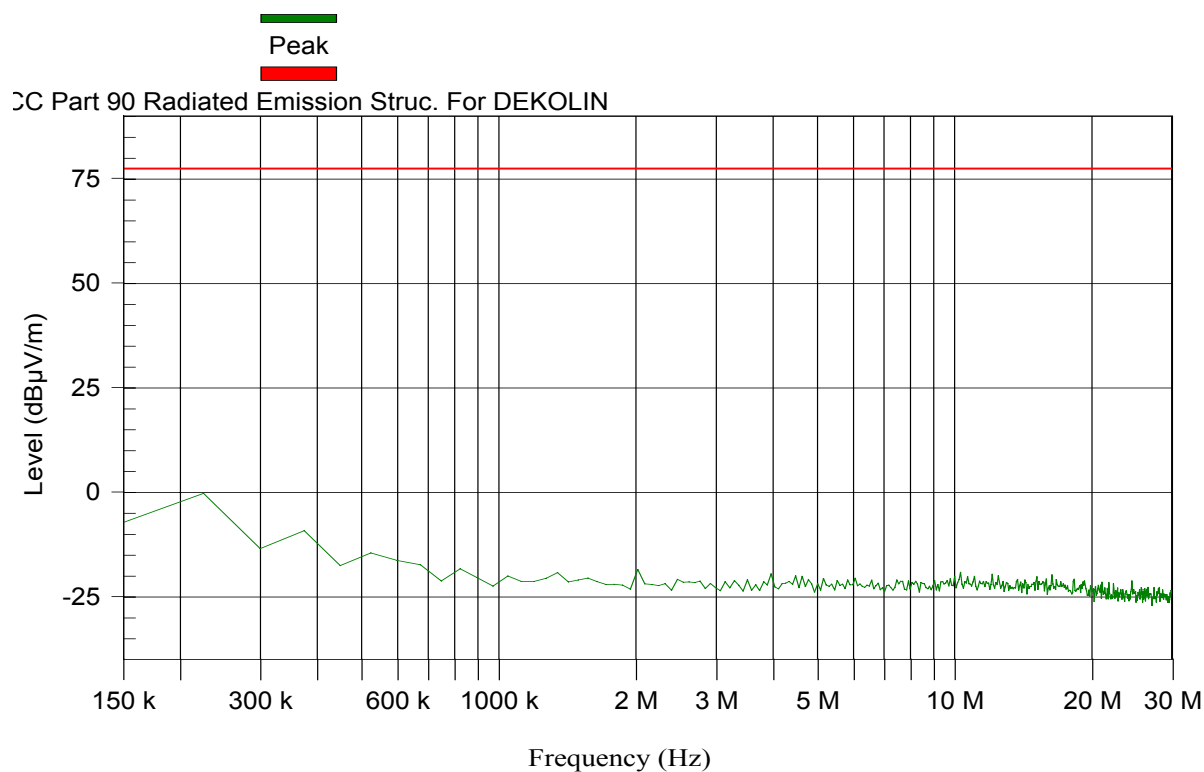
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 28

FCC Part 90 0.15-30MHz (UL-2 f=896MHz,Input Pwr=-20dBm).
VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
2:58:14 PM



MAXIMUM RESULT DEVIATION:

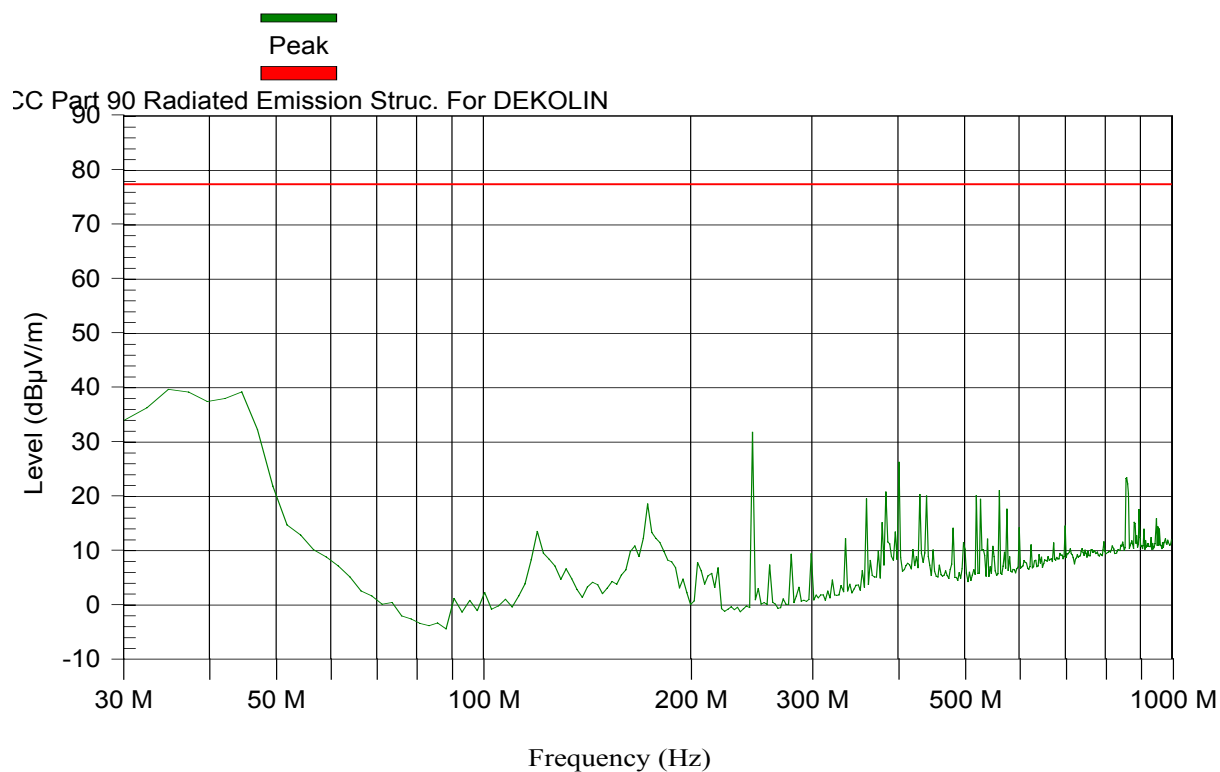
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 29

FCC Part 90 30-1000MHz (UL-2 f=896MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto: 9.7 s
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
12:07:56 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

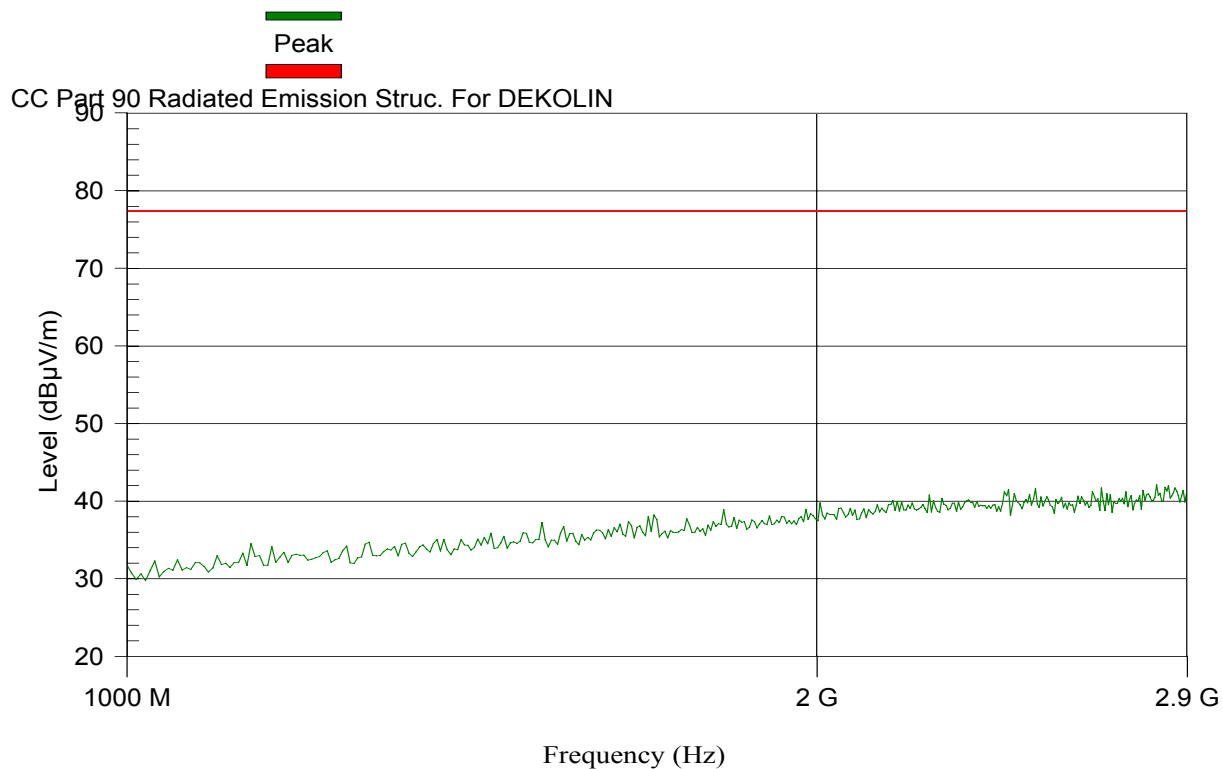
None

Test Results Plot No 30

FCC Part 90 1000-2900MHz (UL-2 f=896MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007
4:51:06 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

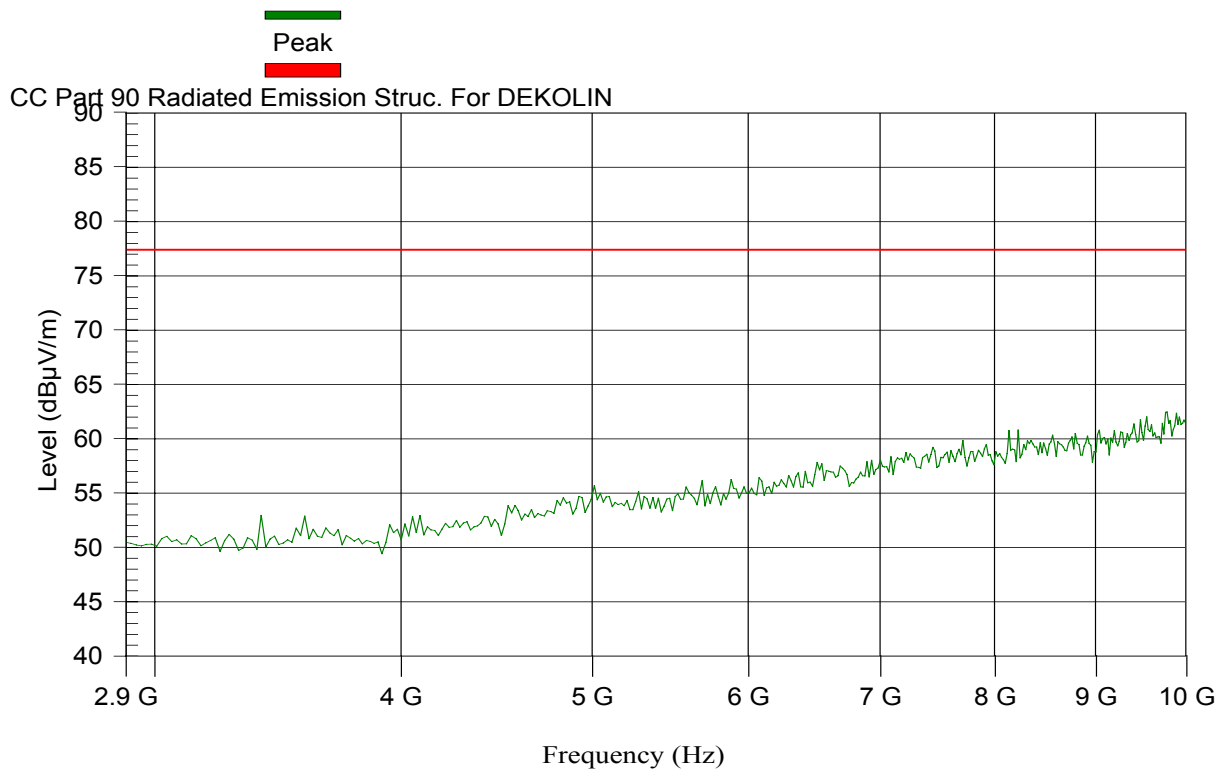
None

Test Results Plot No 31

FCC Part 90 2.9-10GHz (UL-2 f=896MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 18.61 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS:Tuesday, January 30, 2007 5:58:28 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	9485.25	61.8	77.4	Pass	270	1.3	H
2	9556.25	62	77.4	Pass	180	1.6	V
3	9733.75	61.4	77.4	Pass	0	1	V
4	9769.25	62.1	77.4	Pass	0	1.6	H
5	9787	62.5	77.4	Pass	180	1.6	V
6	9804.75	61.4	77.4	Pass	90	1.6	H
7	9822.5	61.7	77.4	Pass	90	1	V
8	9893.5	62.4	77.4	Pass	90	1	H

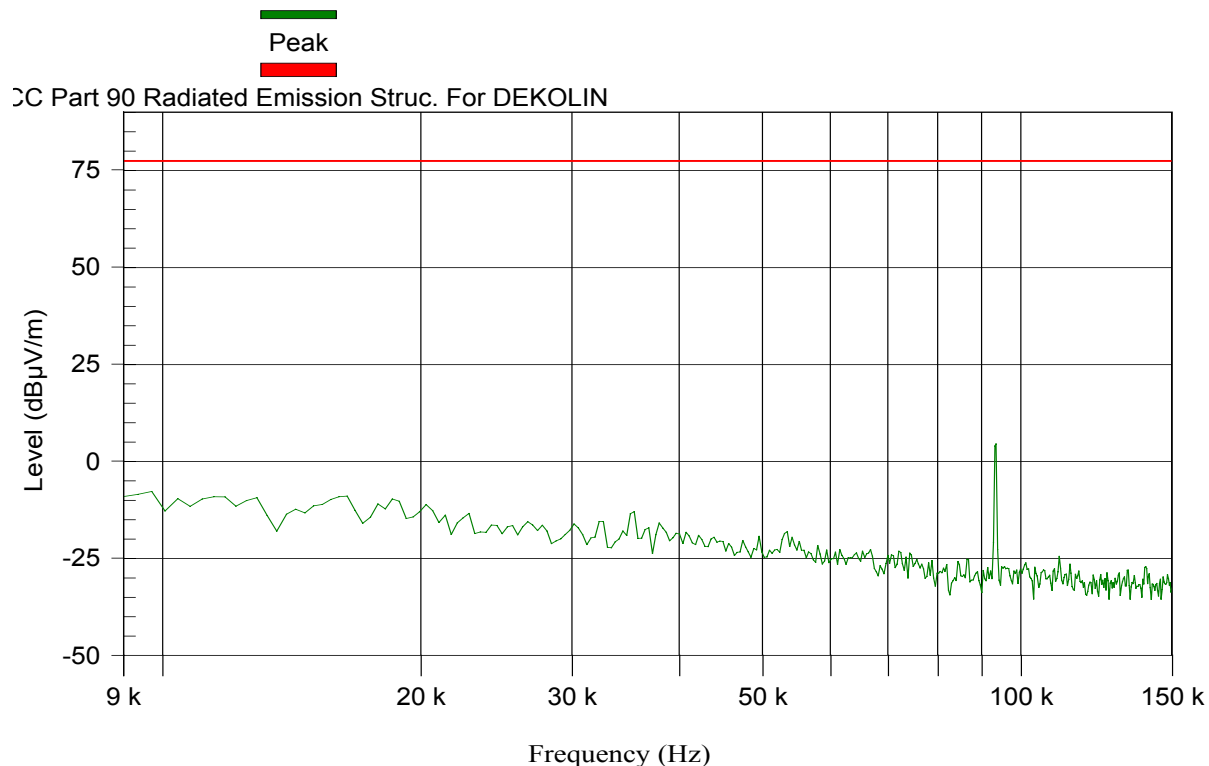
9	9929	62	77.4	Pass	0	1.3	V
10	9982.25	61.7	77.4	Pass	0	1	V

Test Results Plot No 32

FCC Part 90 0.009-0.15MHz (UL-2 f=898.5MHz,Input Pwr=-20dBm). HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
2:27:58 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

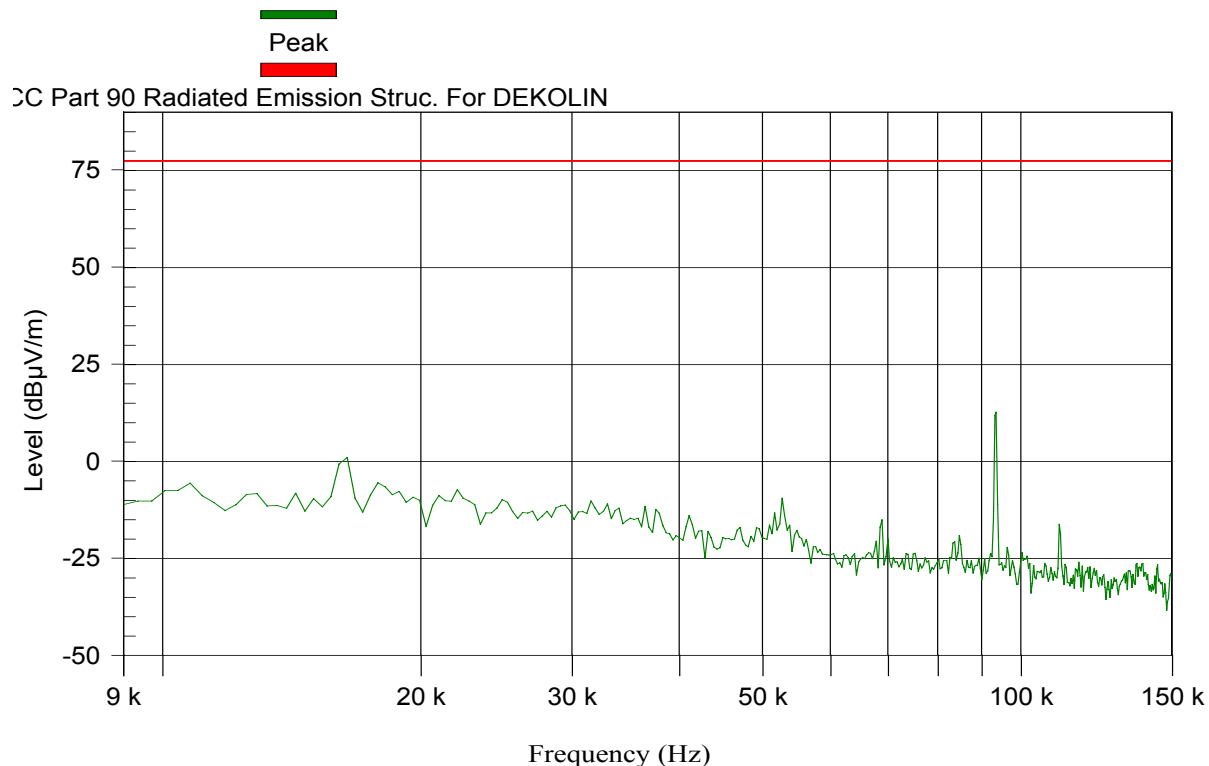
None

Test Results Plot No 33

FCC Part 90 0.009-0.15MHz (UL-2 f=898.5MHz,Input Pwr=-20dBm). VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
3:00:57 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

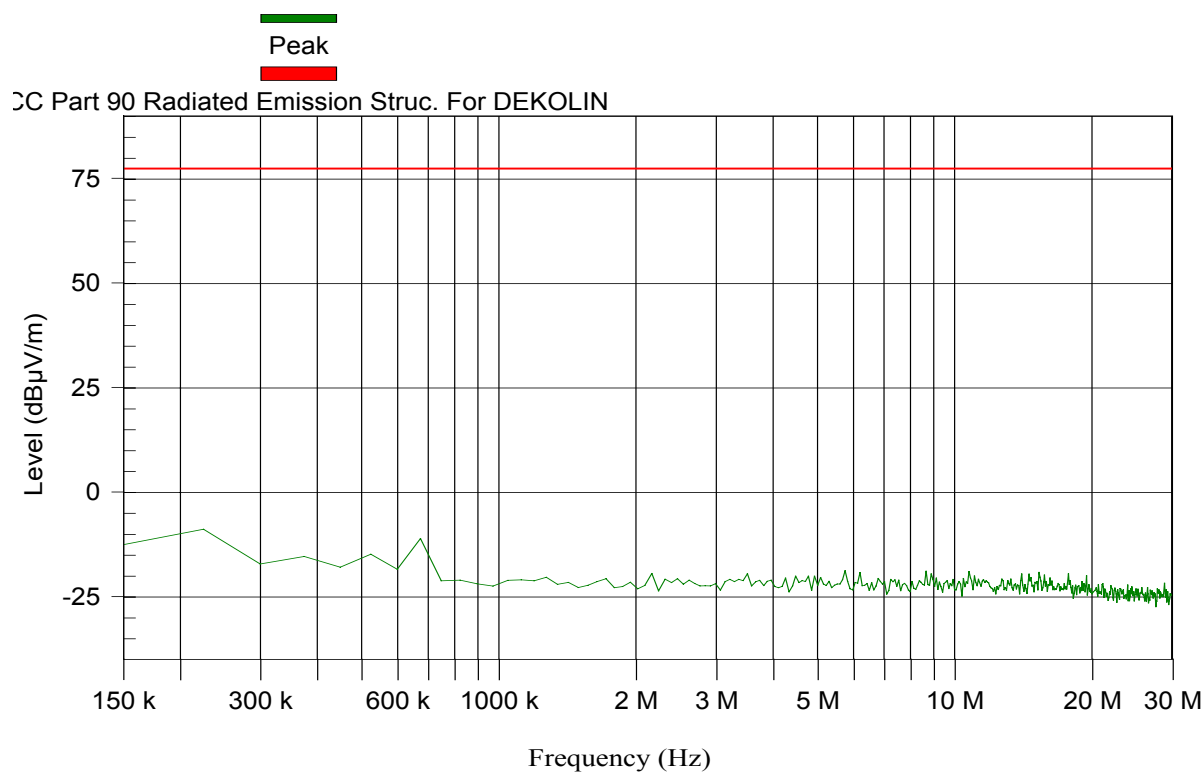
None

Test Results Plot No 34

**FCC Part 90 0.15-30MHz (UL-2 f=898.5MHz,Input Pwr=-20dBm).
HOR**

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
2:29:49 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 35

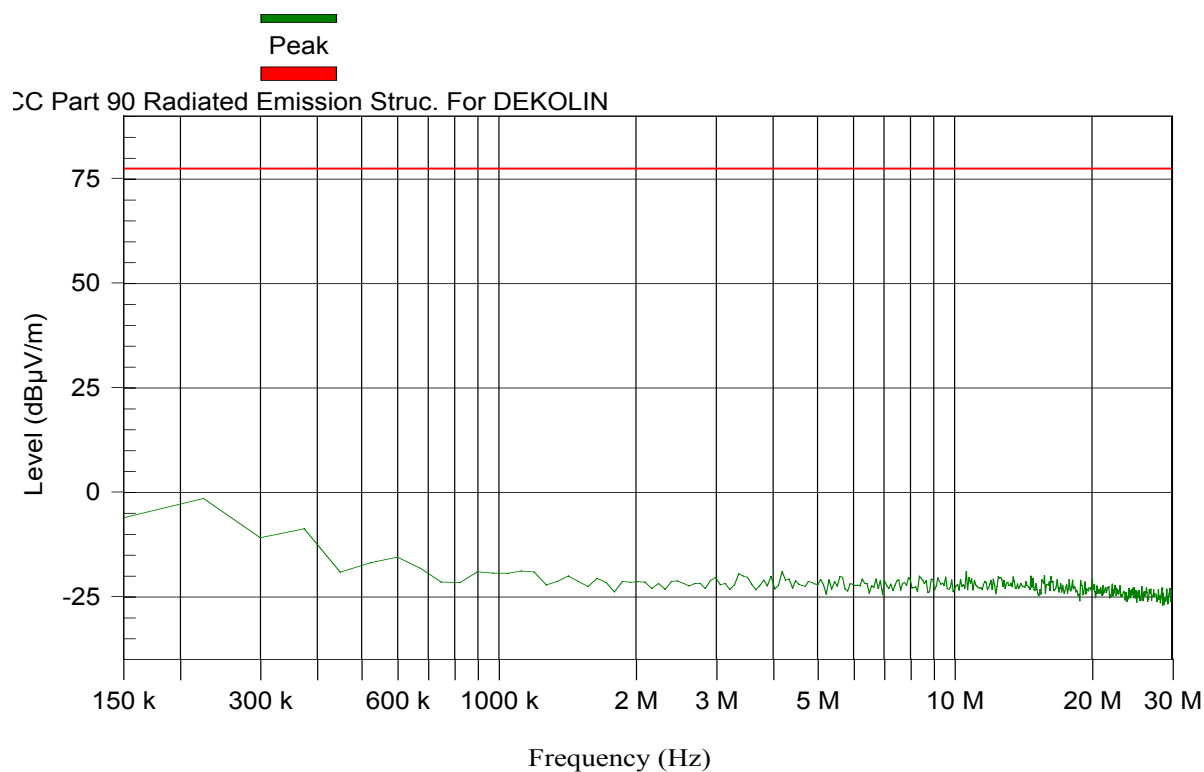
FCC Part 90 0.15-30MHz (UL-2 f=898.5MHz,Input Pwr=-20dBm).

VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007

3:03:03 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

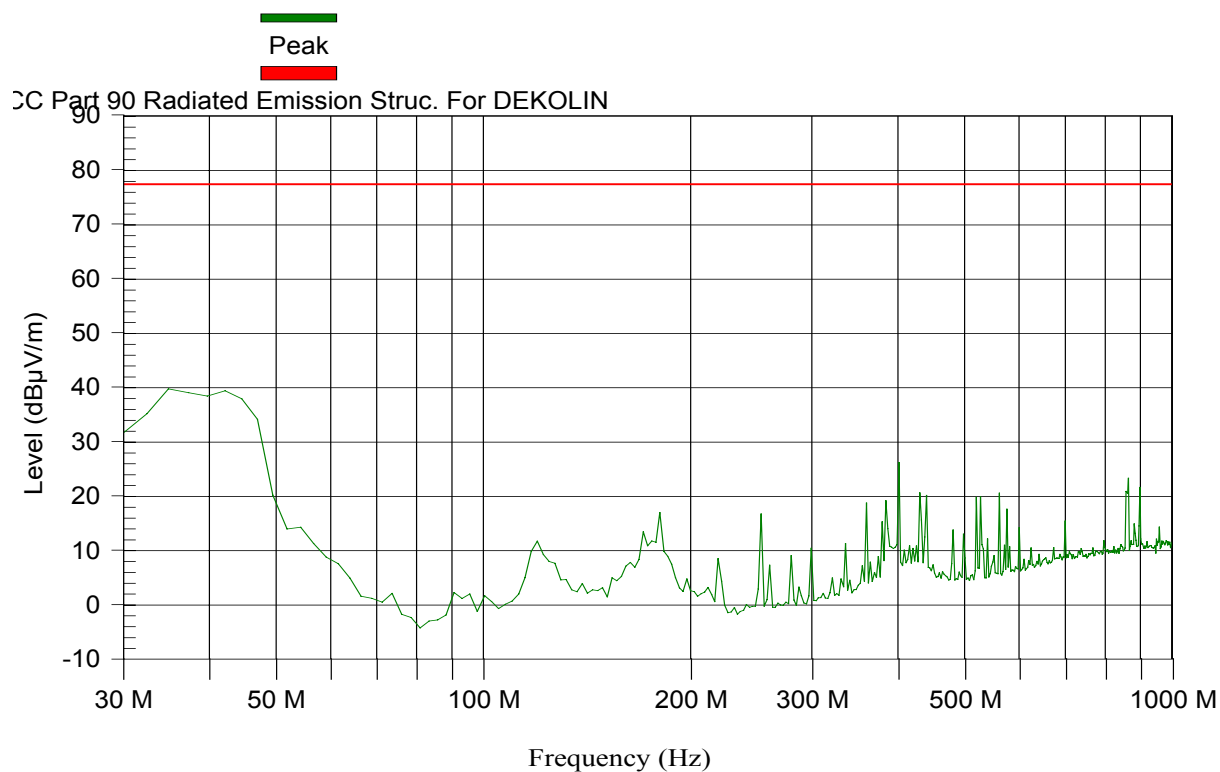
None

Test Results Plot No 36

FCC Part 90 30-1000MHz (UL-2 f=898.5MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto: 9.7 s
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
12:17:18 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

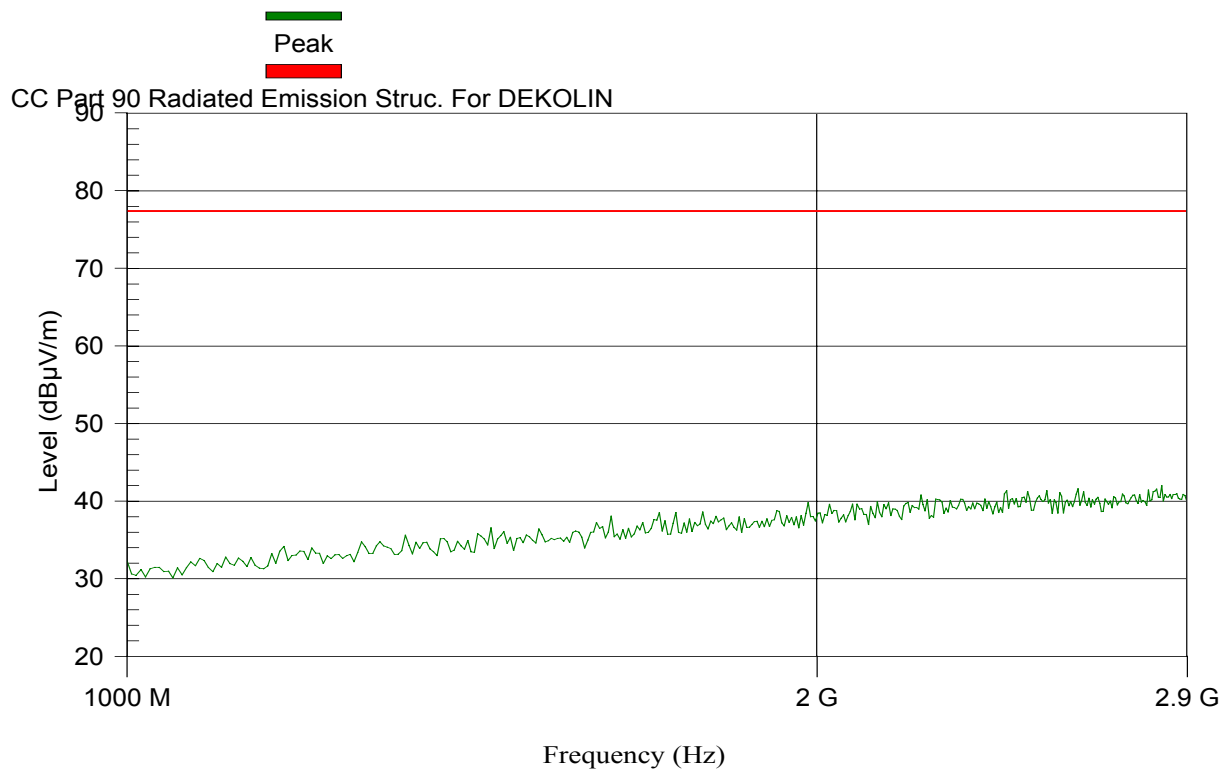
None

Test Results Plot No 37

FCC Part 90 1000-2900MHz (UL-2 f=898.5MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007
4:55:57 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

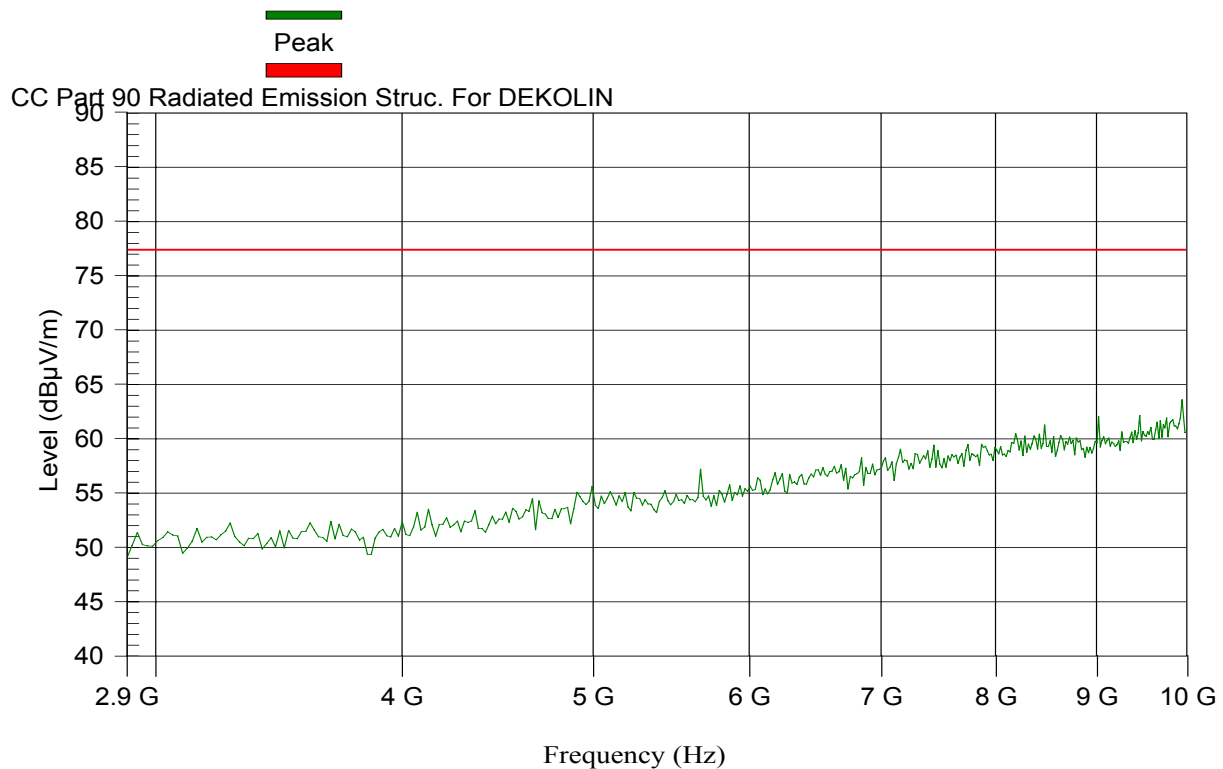
None

Test Results Plot No 38

FCC Part 90 2.9-10GHz (UL-2 f=898.5MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 18.61 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007 6:02:59 PM


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	9023.75	62.1	77.4	Pass	0	1.3	H
2	9467.5	62.2	77.4	Pass	270	1	V
3	9698.25	61.7	77.4	Pass	180	1.3	V
4	9769.25	61.9	77.4	Pass	270	1	H
5	9822.5	61.6	77.4	Pass	90	1	V
6	9840.25	61.7	77.4	Pass	0	1.3	V
7	9911.25	62.1	77.4	Pass	270	1.6	V
8	9929	61.9	77.4	Pass	90	1.3	V

9	9946.75	63.6	77.4	Pass	180	1.6	V
10	9964.5	62	77.4	Pass	0	1.3	V

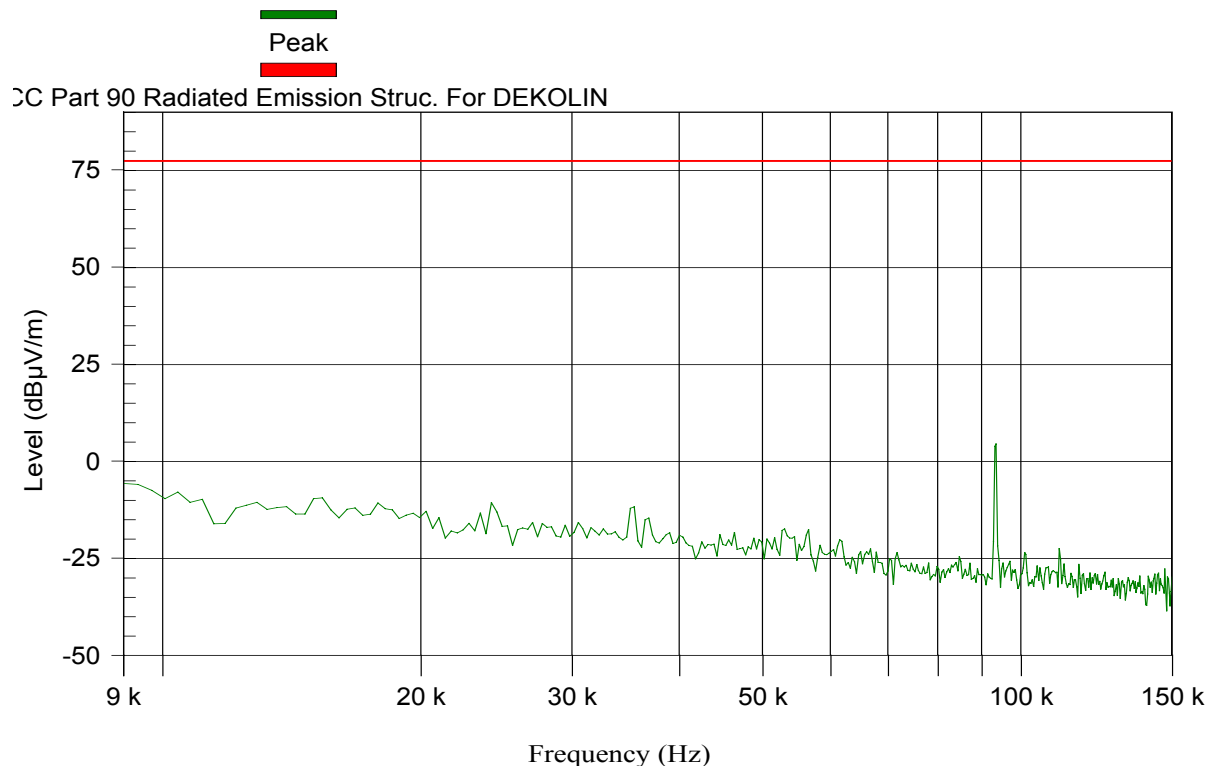
Test Results Plot No 39

FCC Part 90 0.009-0.15MHz (UL-2 f=901MHz,Input Pwr=-20dBm).

HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
2:32:14 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

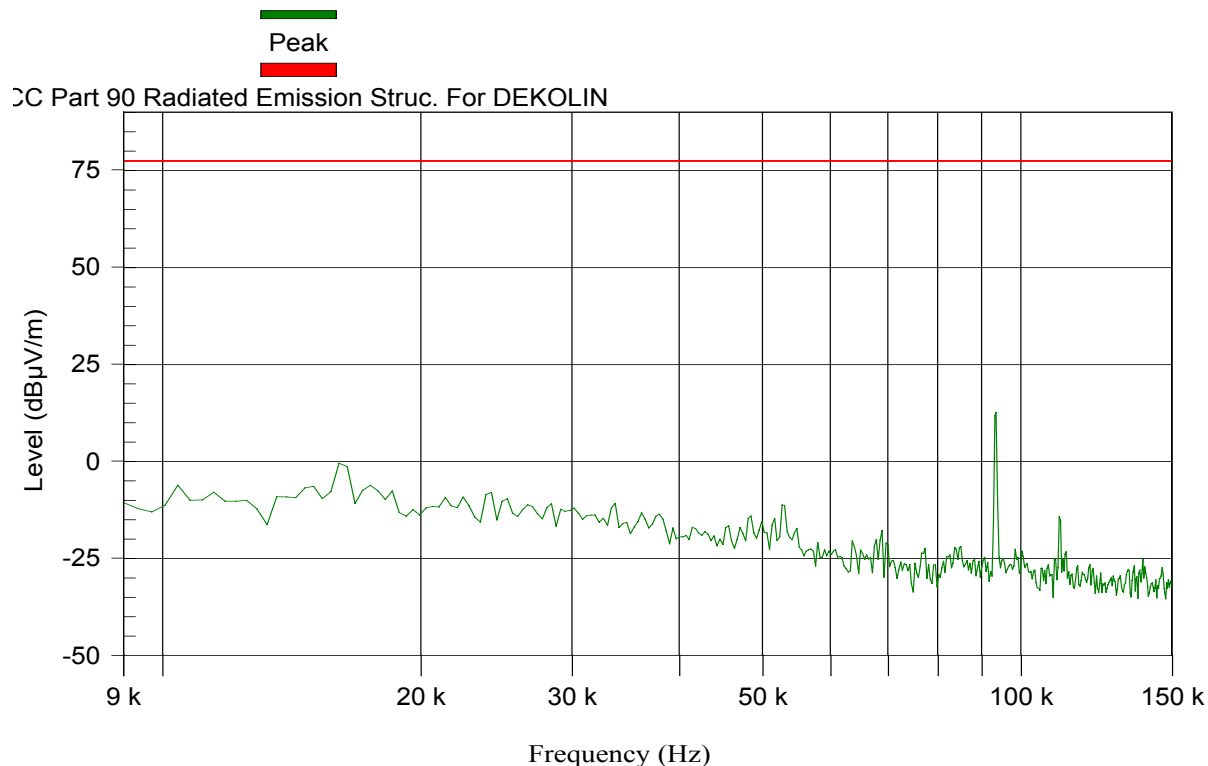
Test Results Plot No 40

FCC Part 90 0.009-0.15MHz (UL-2 f=901MHz,Input Pwr=-20dBm).

VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
3:05:29 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

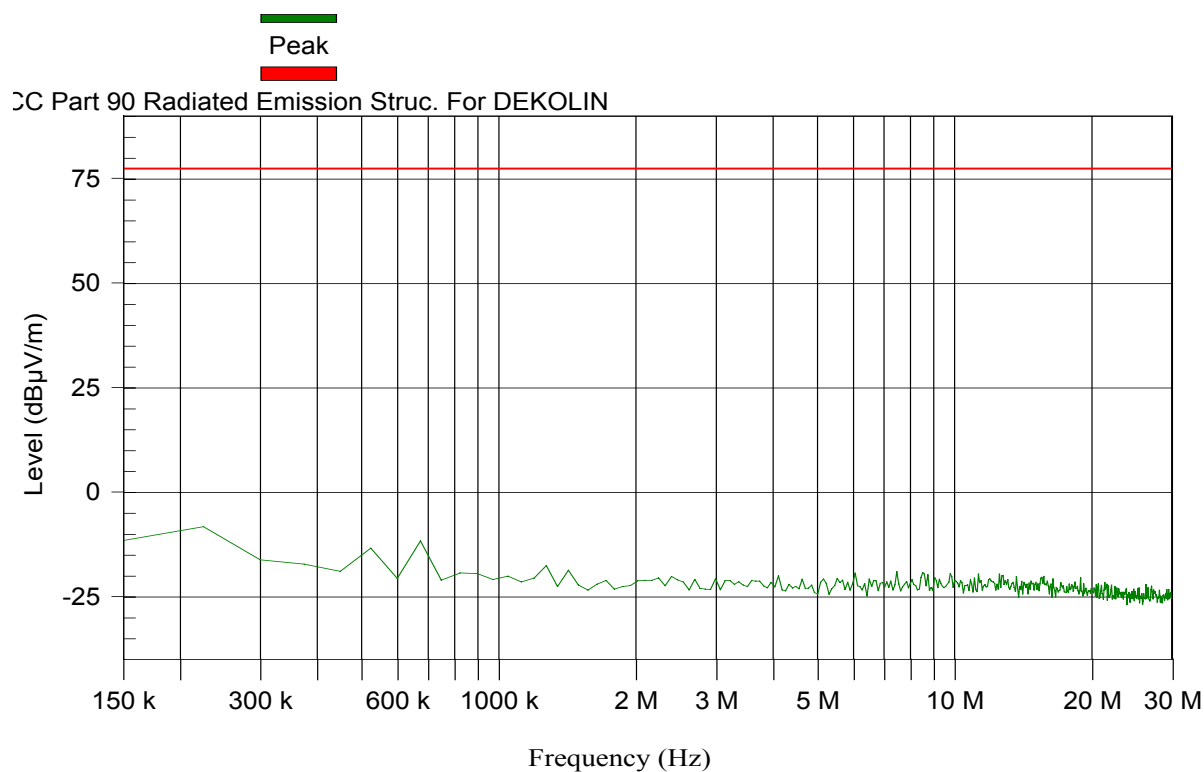
None

Test Results Plot No 41

**FCC Part 90 0.15-30MHz (UL-2 f=901MHz,Input Pwr=-20dBm).
HOR**

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
2:34:05 PM



MAXIMUM RESULT DEVIATION:

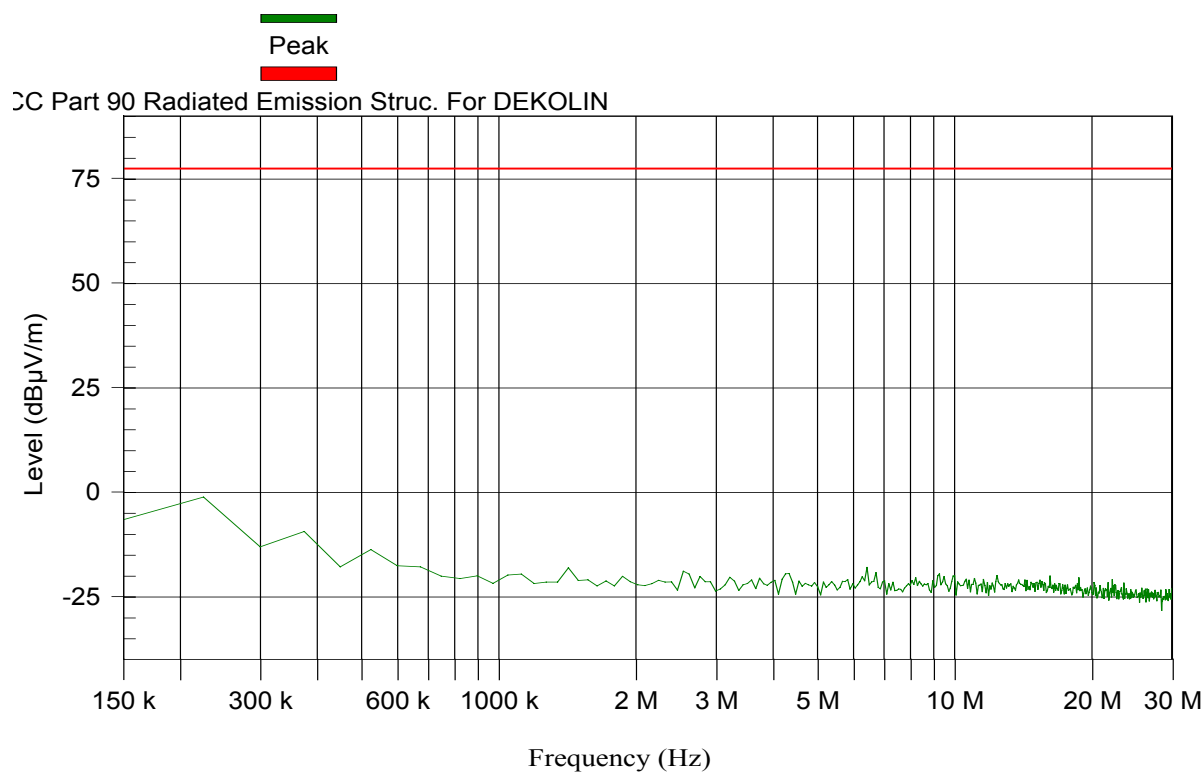
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 42

**FCC Part 90 0.15-30MHz (UL-2 f=901MHz,Input Pwr=-20dBm).
VER**

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dBμV
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
3:07:20 PM



MAXIMUM RESULT DEVIATION:

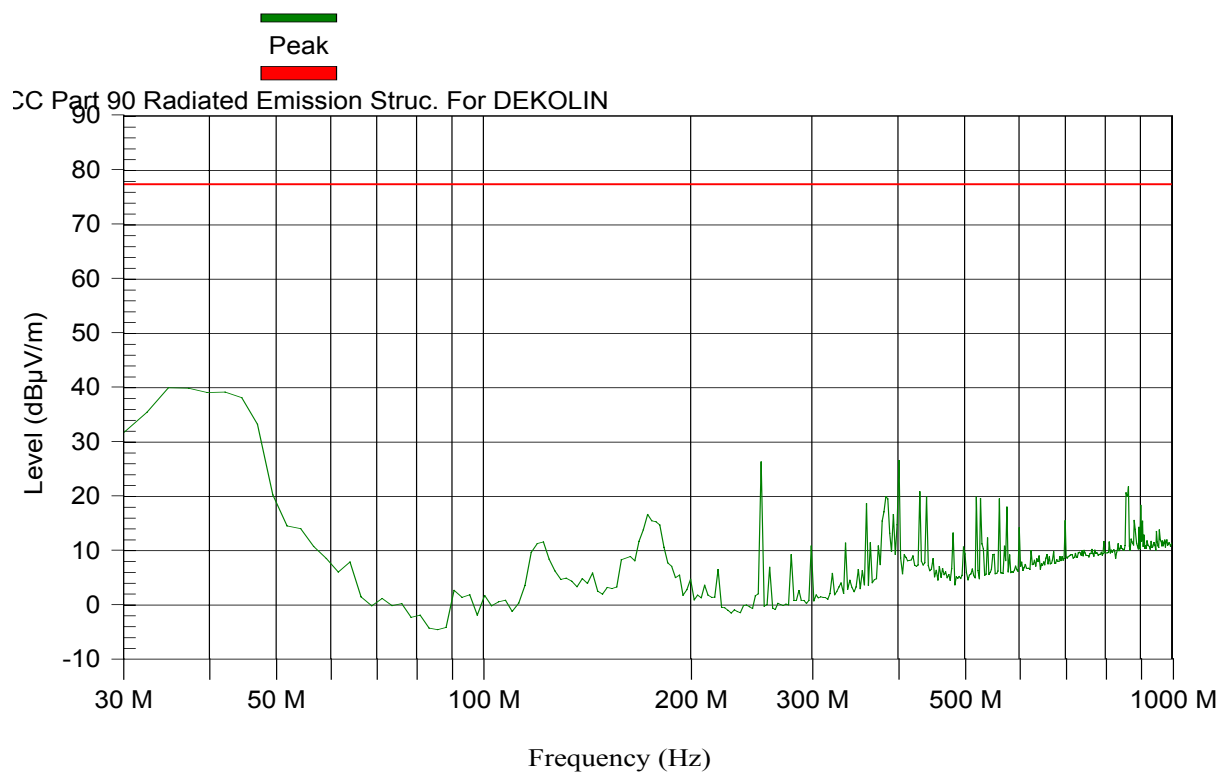
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 43

FCC Part 90 30-1000MHz (UL-2 f=901MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto: 9.7 s
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
12:27:05 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

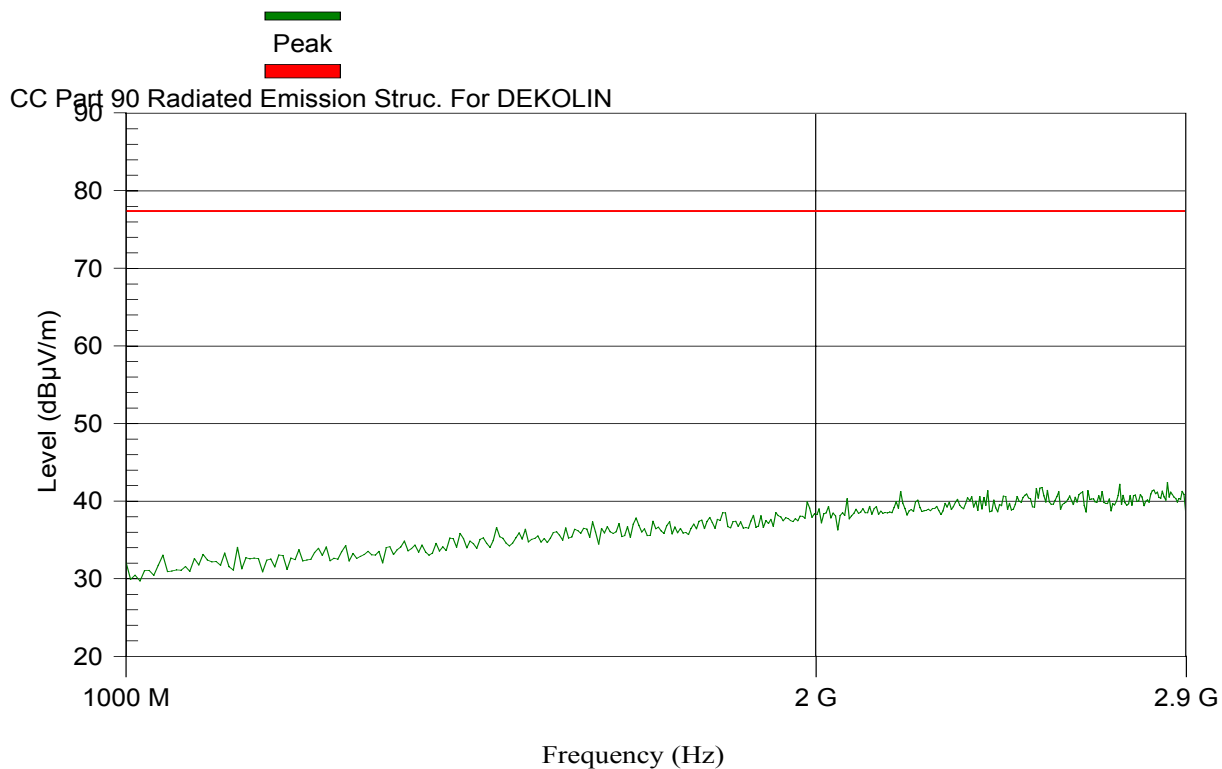
None

Test Results Plot No 44

FCC Part 90 1000-2900MHz (UL-2 f=901MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007
5:00:52 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

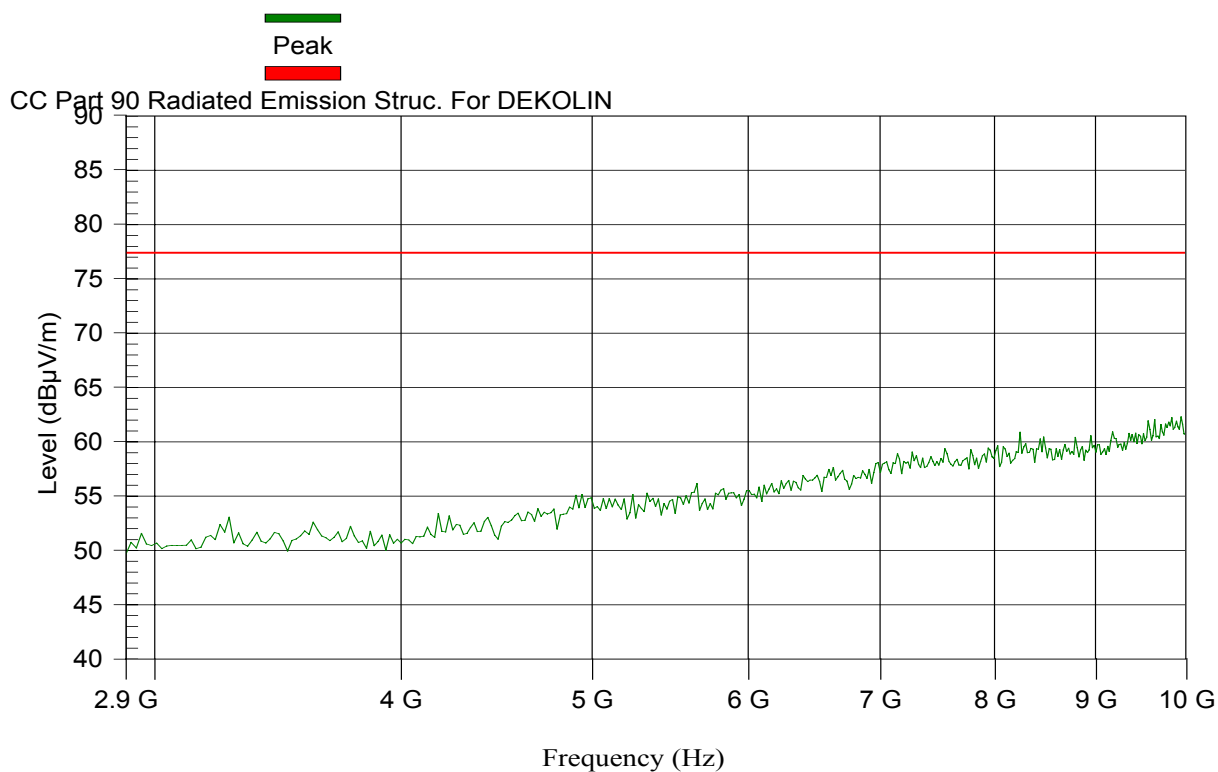
None

Test Results Plot No 45

FCC Part 90 2.9-10GHz (UL-2 f=901MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 18.61 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS:Tuesday, January 30, 2007 6:07:25 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	9574	61.9	77.4	Pass	270	1.6	V
2	9645	62	77.4	Pass	0	1.6	H
3	9716	61.6	77.4	Pass	90	1.3	H
4	9769.25	61.6	77.4	Pass	180	1	H
5	9804.75	61.8	77.4	Pass	90	1.3	V
6	9840.25	62.2	77.4	Pass	0	1.3	H
7	9875.75	62	77.4	Pass	180	1	H
8	9893.5	61.9	77.4	Pass	270	1.3	H

9	9946.75	62.3	77.4	Pass	90	1.6	H
10	9964.5	61.6	77.4	Pass	0	1.6	V

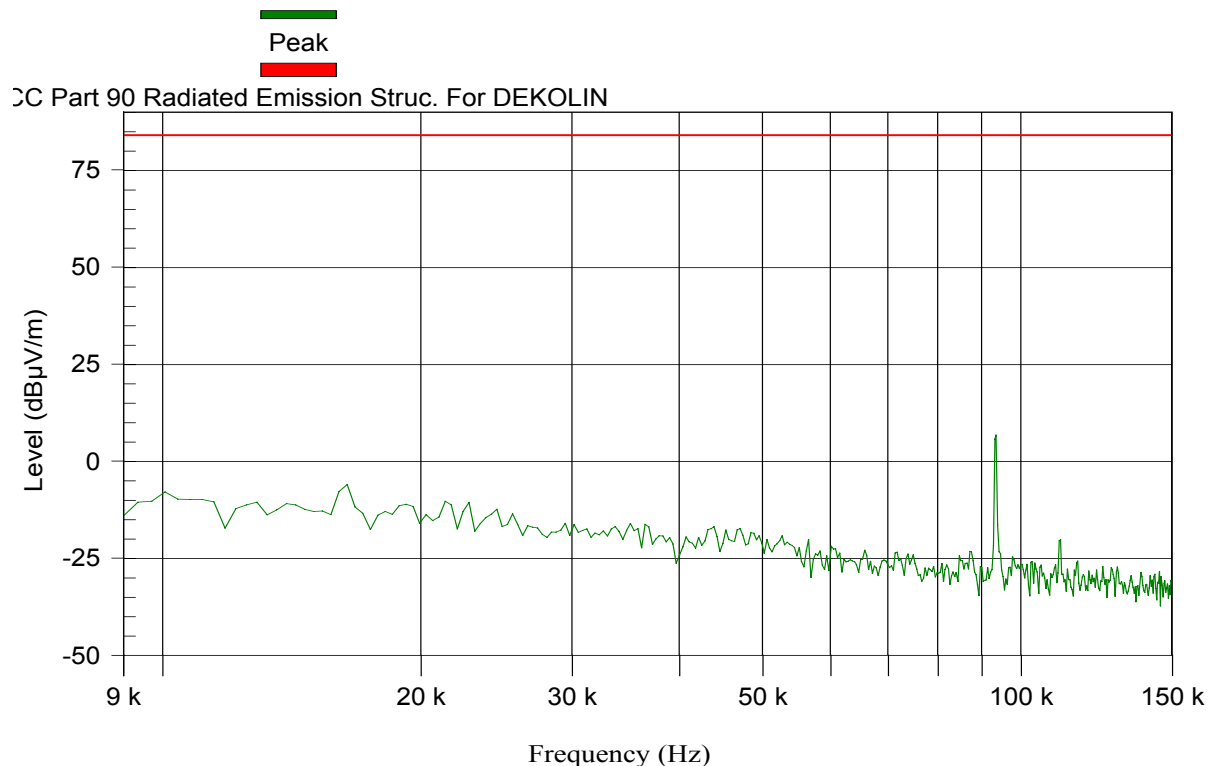
Test Results Plot No 46

FCC Part 90 0.009-0.15MHz (DL-1 f=851MHz,Input Pwr=-20dBm).

HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
3:12:07 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

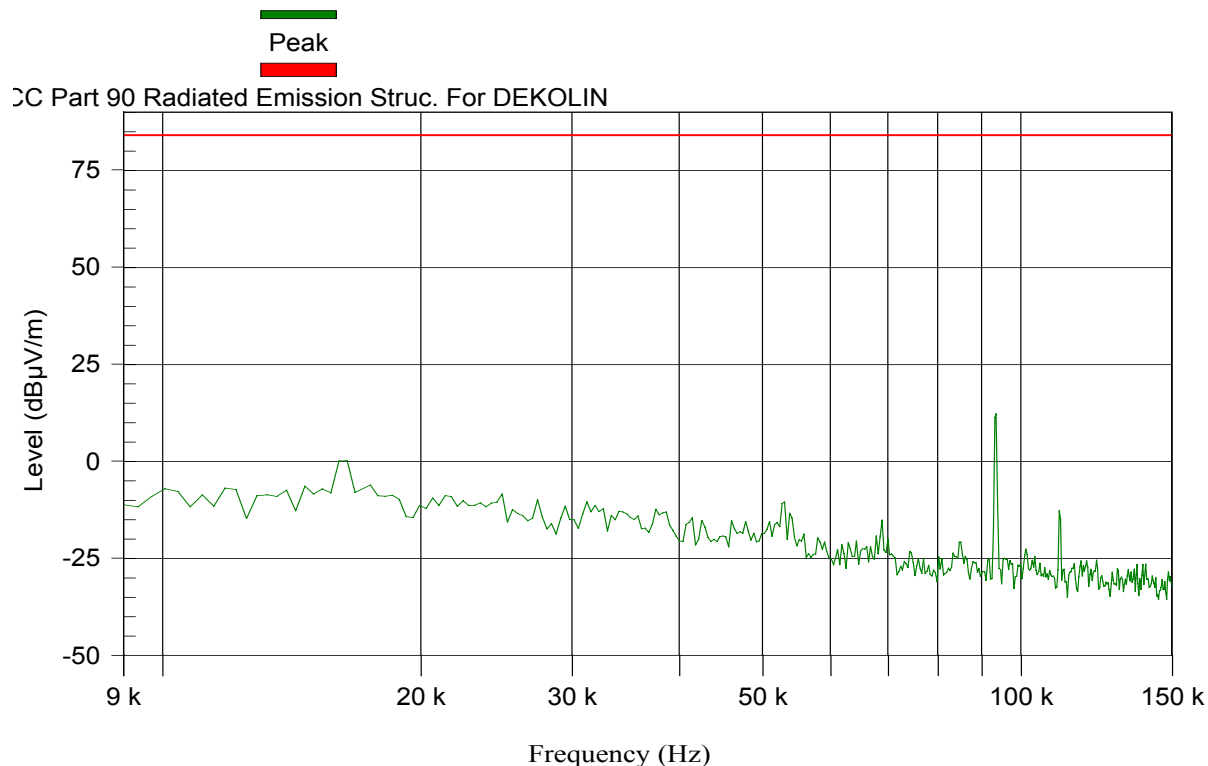
Test Results Plot No 47

FCC Part 90 0.009-0.15MHz (DL-1 f=851MHz,Input Pwr=-20dBm).

VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
3:44:53 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

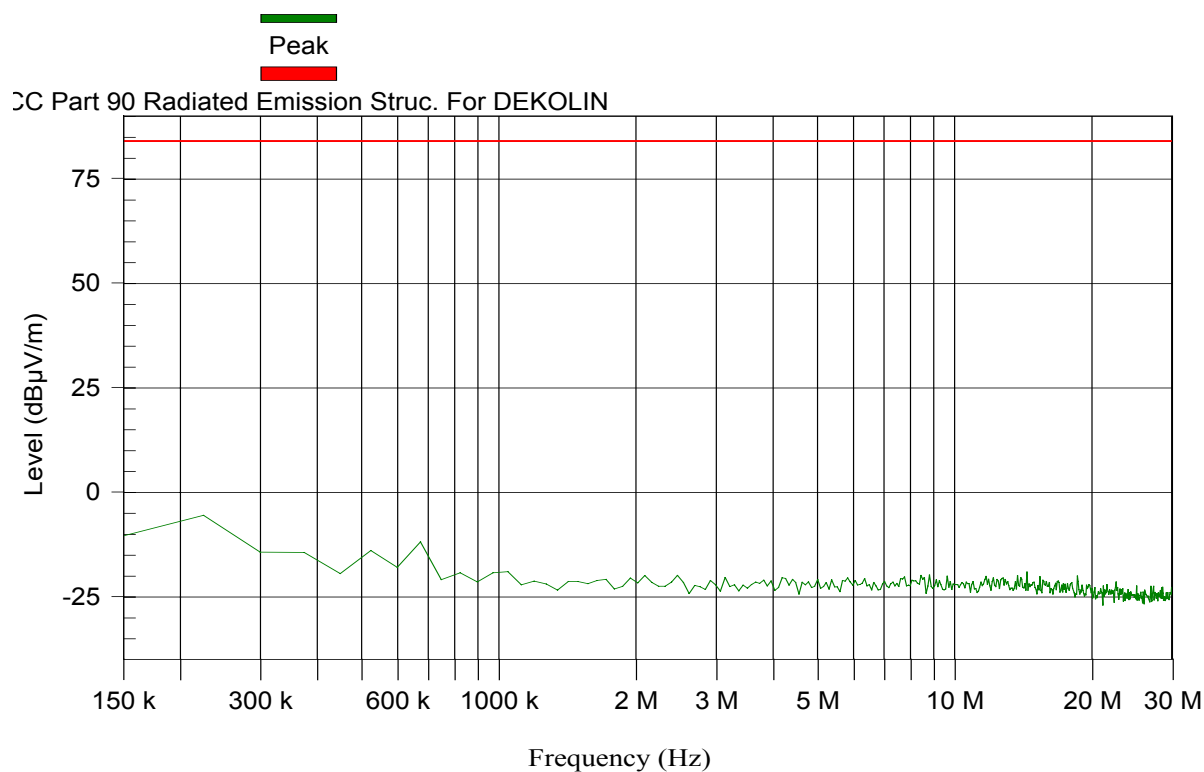
None

Test Results Plot No 48

**FCC Part 90 0.15-30MHz (DL-1 f=851MHz,Input Pwr=-20dBm).
HOR**

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
3:15:09 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 49

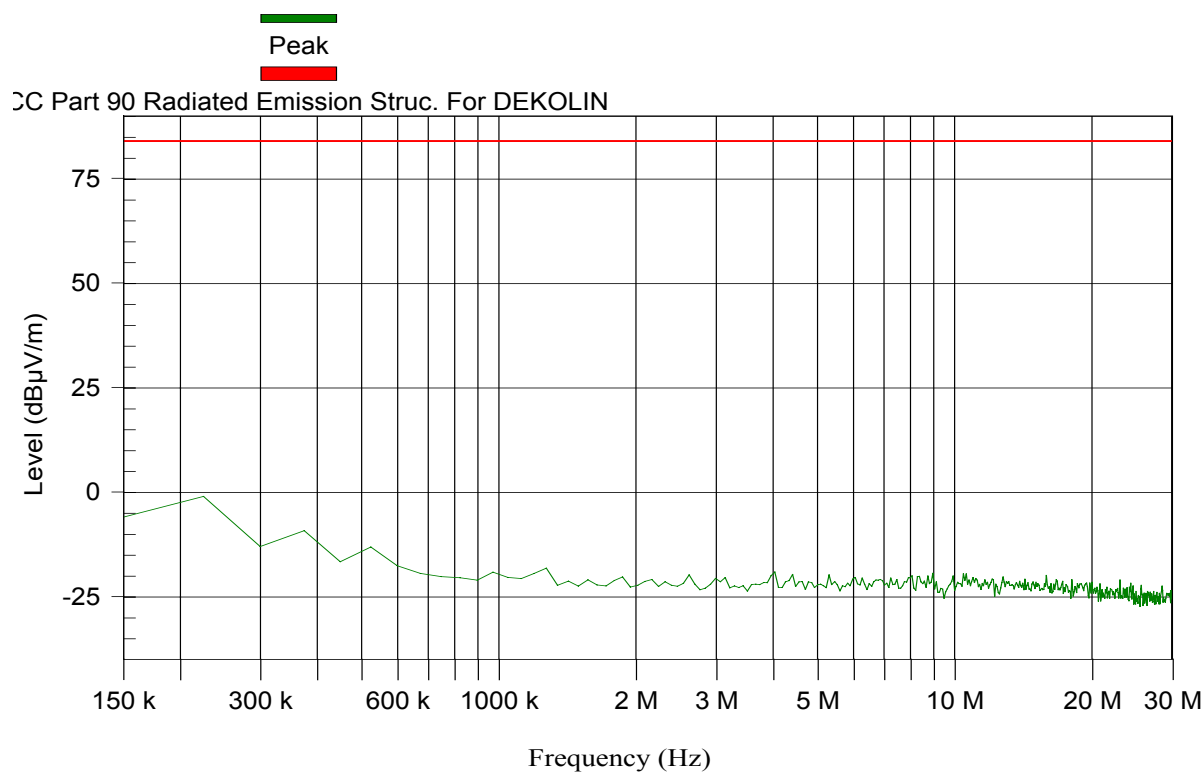
FCC Part 90 0.15-30MHz (DL-1 f=851MHz,Input Pwr=-20dBm).

VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007

3:52:10 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

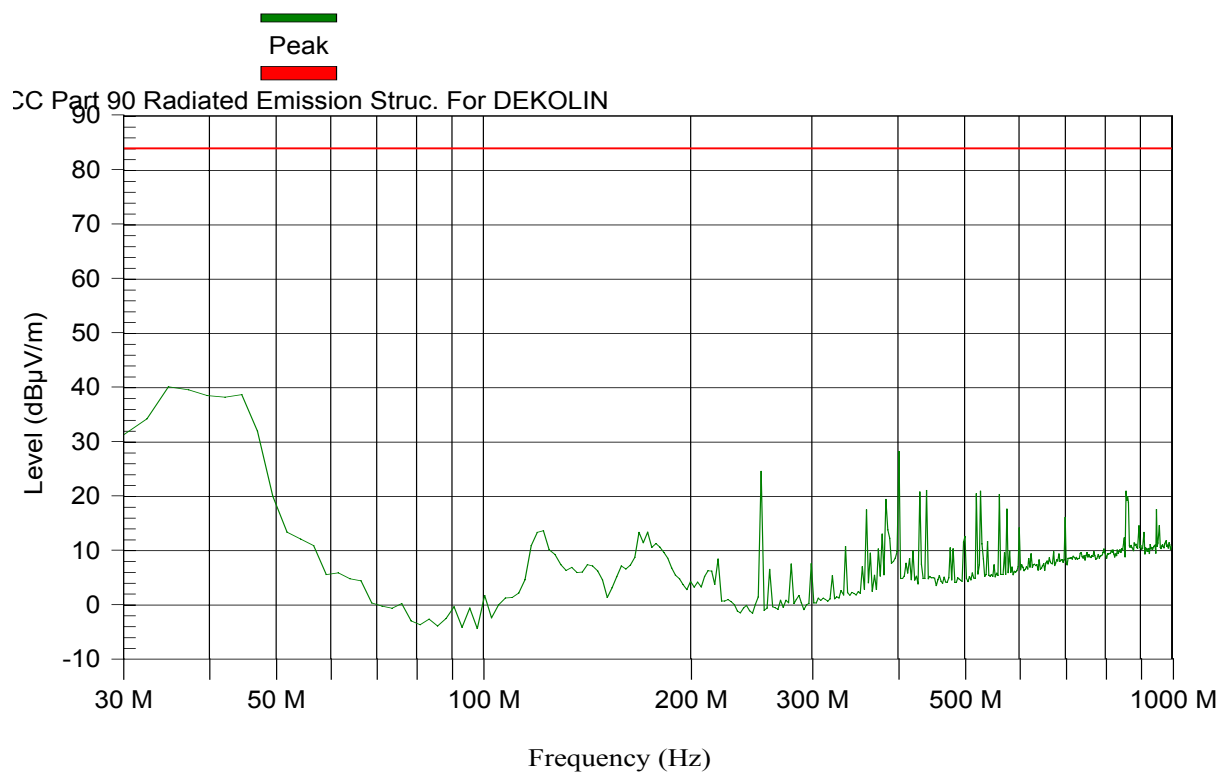
None

Test Results Plot No 50

FCC Part 90 30-1000MHz (DL-1 f=851MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto: 9.7 s
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
10:31:08 AM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

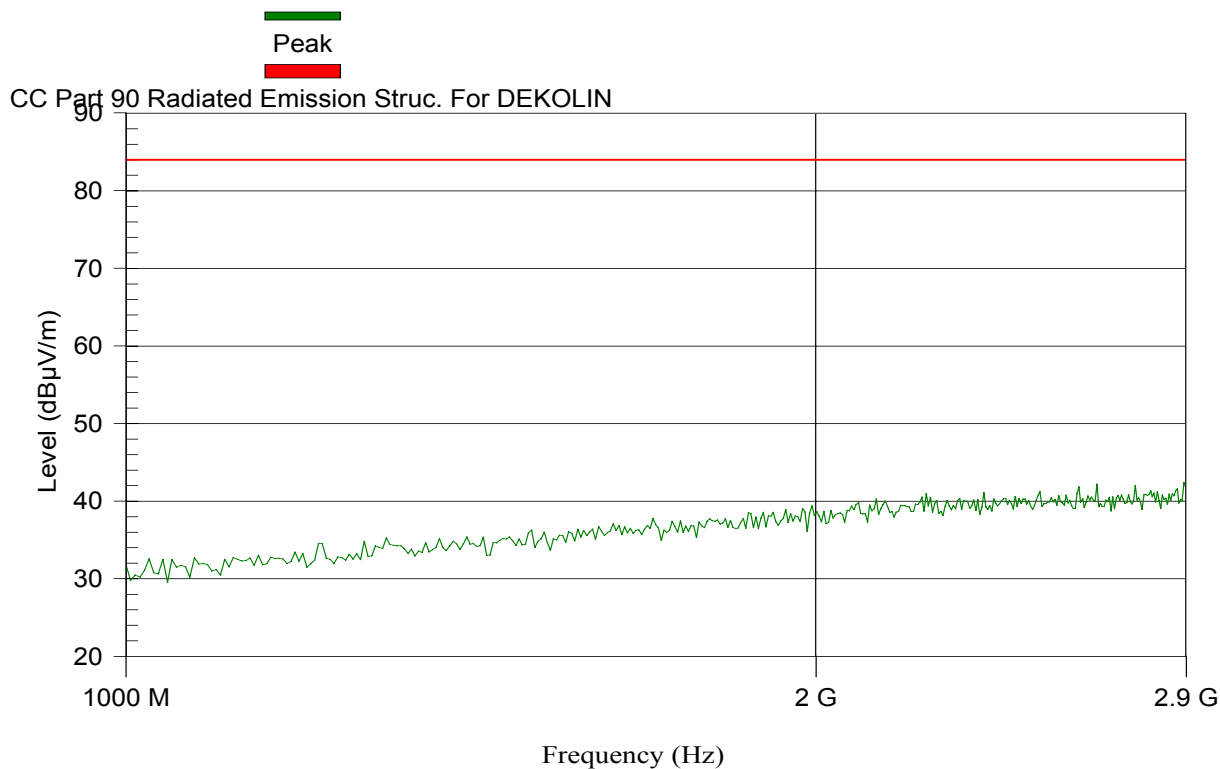
None

Test Results Plot No 51

FCC Part 90 1000-2900MHz (DL-1 f=851MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007
5:06:05 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

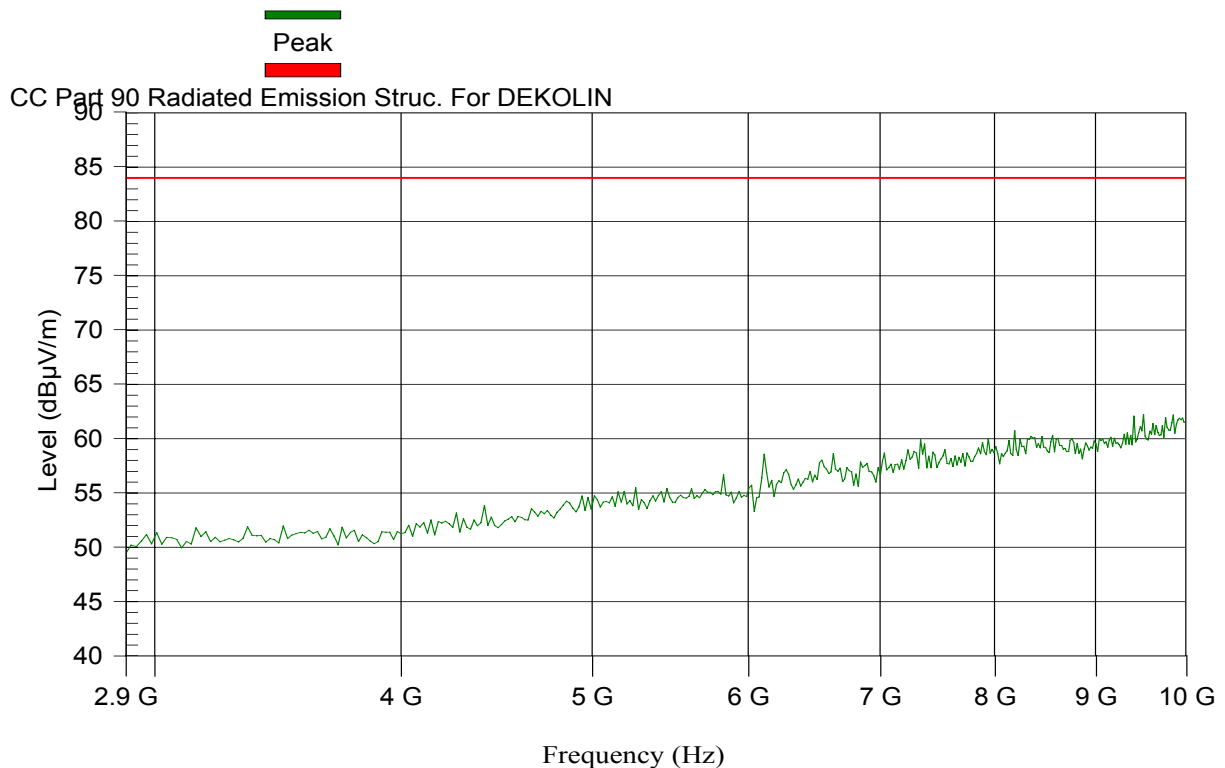
None

Test Results Plot No 52

FCC Part 90 2.9-10GHz (DL-1 f=851MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 18.61 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS:Tuesday, January 30, 2007 6:12:55 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	9414.25	62.1	84	Pass	0	1.6	V
2	9520.75	62.2	84	Pass	90	1	V
3	9769.25	61.9	84	Pass	180	1.6	V
4	9858	62.2	84	Pass	180	1.3	V
5	9911.25	61.7	84	Pass	180	1.3	V
6	9929	61.9	84	Pass	180	1.6	V
7	9946.75	61.7	84	Pass	90	1	H
8	9964.5	61.9	84	Pass	180	1.6	H
9	9982.25	61.5	84	Pass	270	1.3	H

10 10000 61.5 84 Pass 90 1.6 V

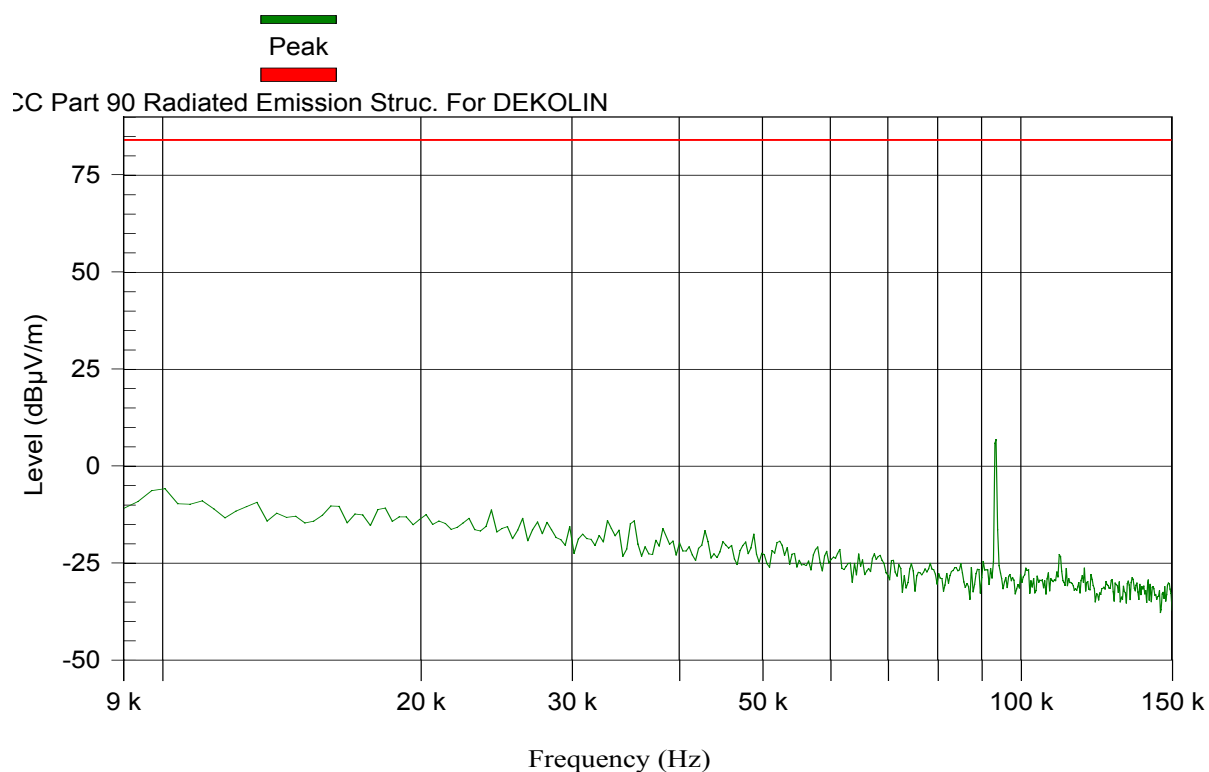
Test Results Plot No 53

FCC Part 90 0.009-0.15MHz (DL-1 f=860MHz,Input Pwr=-20dBm).

HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
3:17:38 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

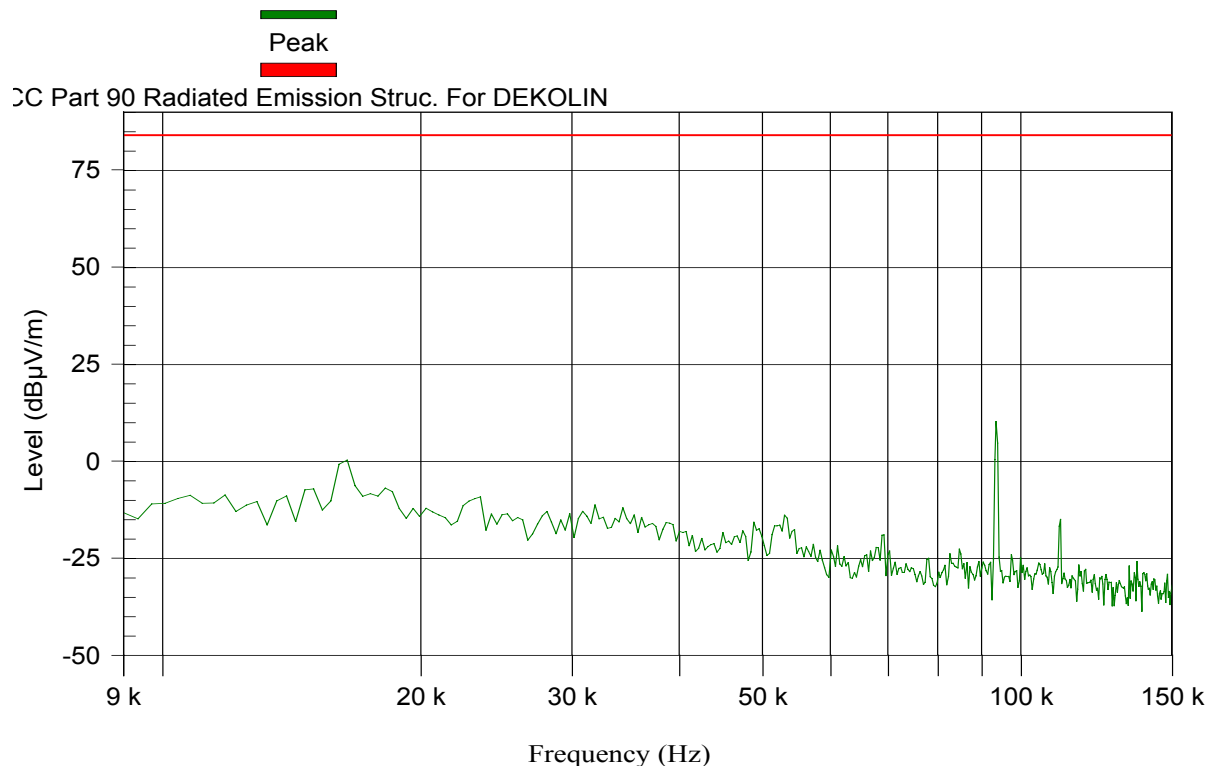
Test Results Plot No 54

FCC Part 90 0.009-0.15MHz (DL-1 f=860MHz,Input Pwr=-20dBm).

VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
3:54:20 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

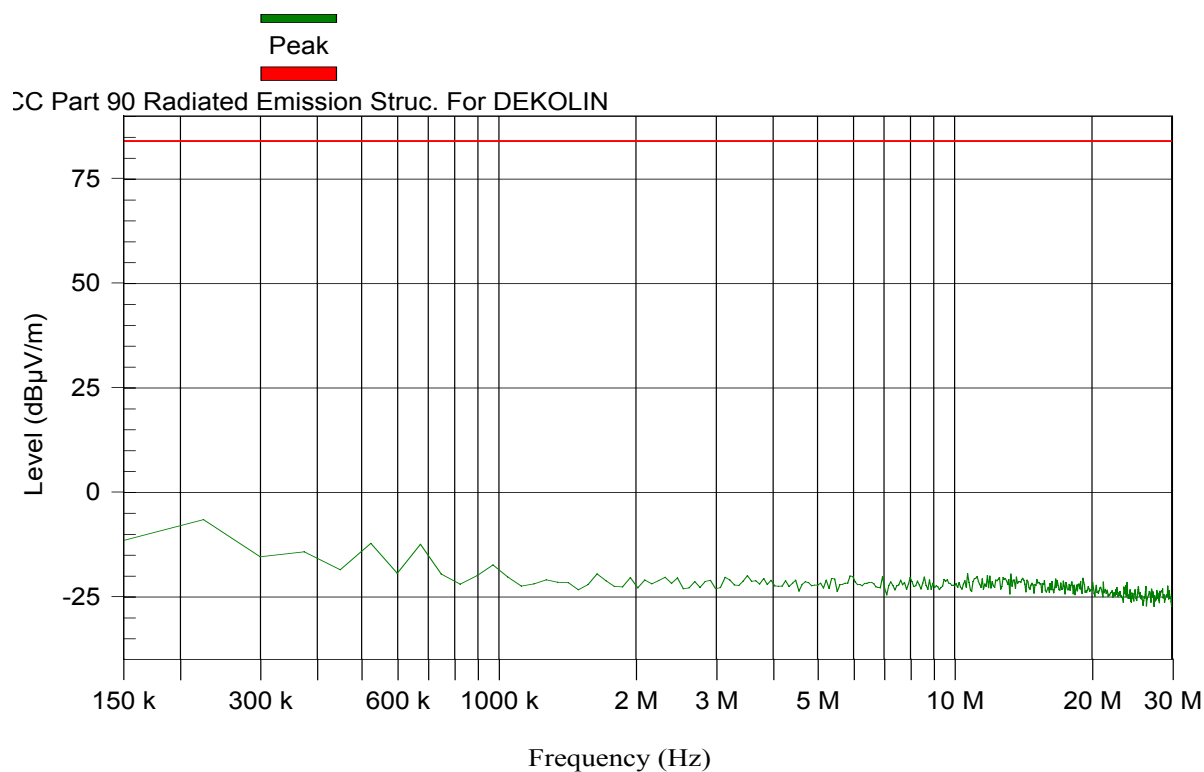
None

Test Results Plot No 55

**FCC Part 90 0.15-30MHz (UL-1 f=860MHz,Input Pwr=-20dBm).
HOR**

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
3:19:46 PM



MAXIMUM RESULT DEVIATION:

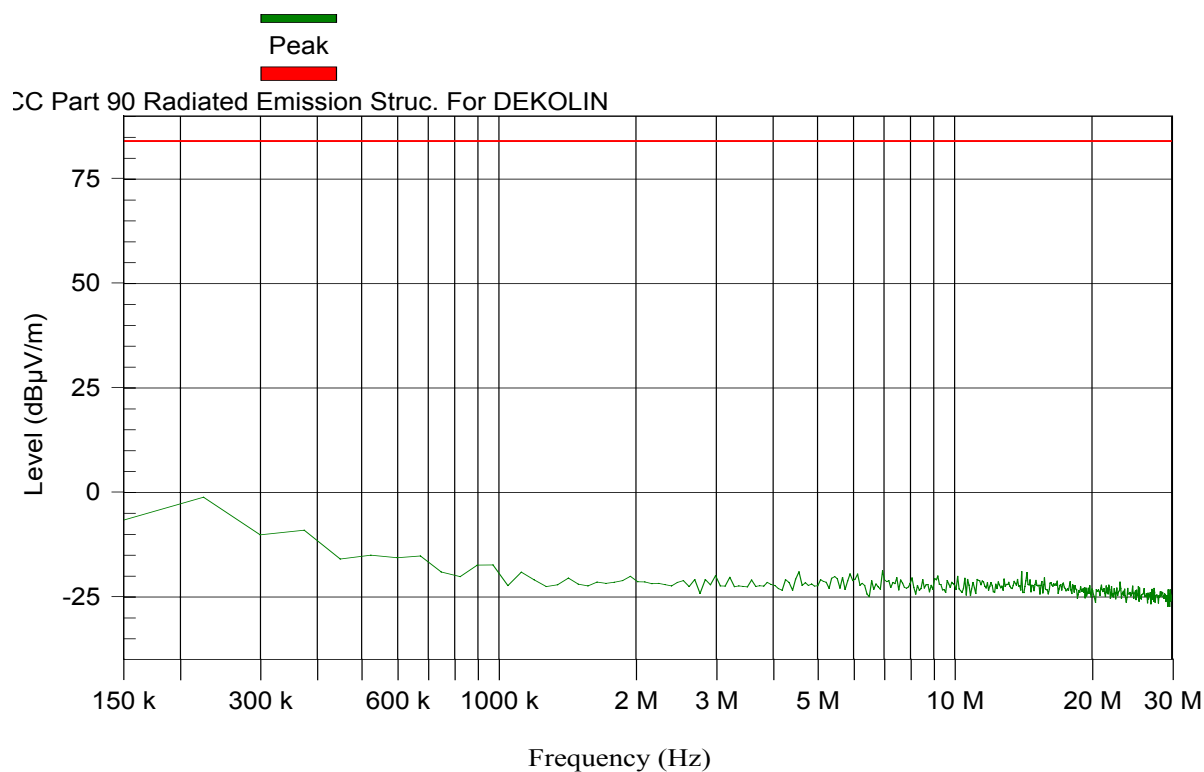
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 56

FCC Part 90 0.15-30MHz (DL-1 f=860MHz,Input Pwr=-20dBm).
VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
3:56:20 PM



MAXIMUM RESULT DEVIATION:

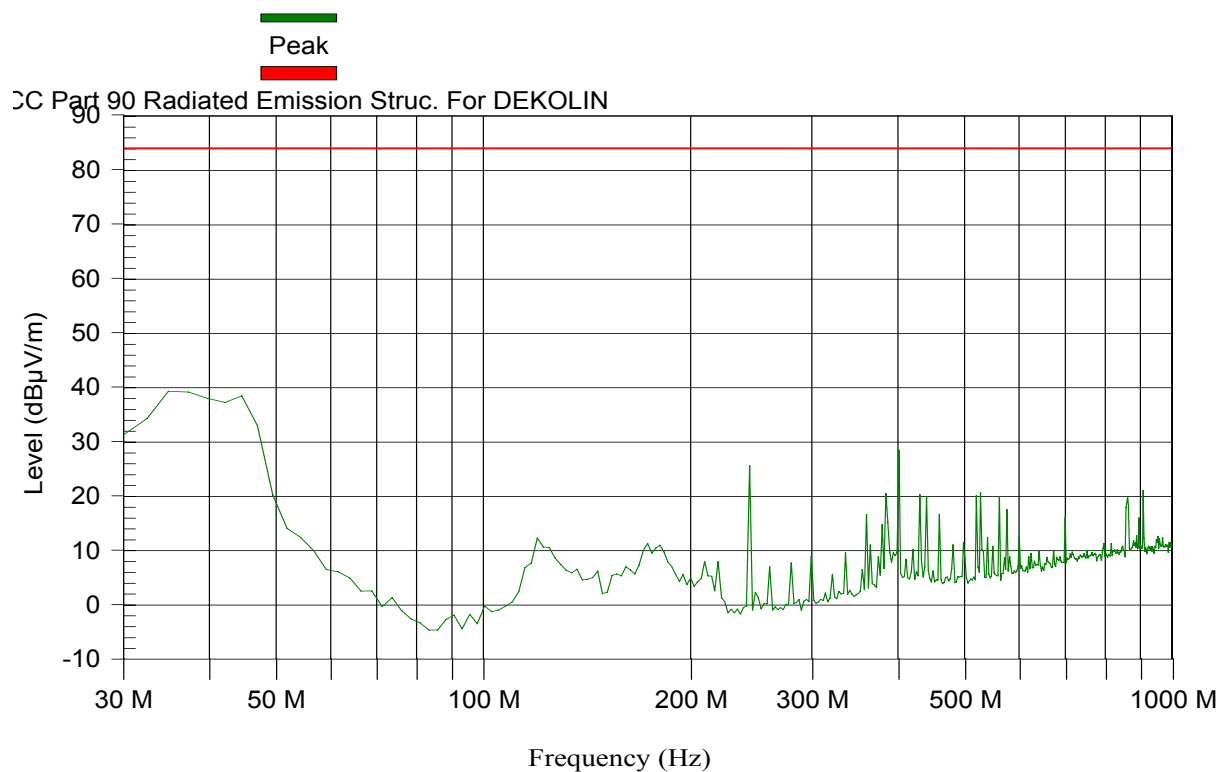
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 57

FCC Part 90 30-1000MHz (DL-1 f=860MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto: 9.7 s
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
10:38:56 AM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

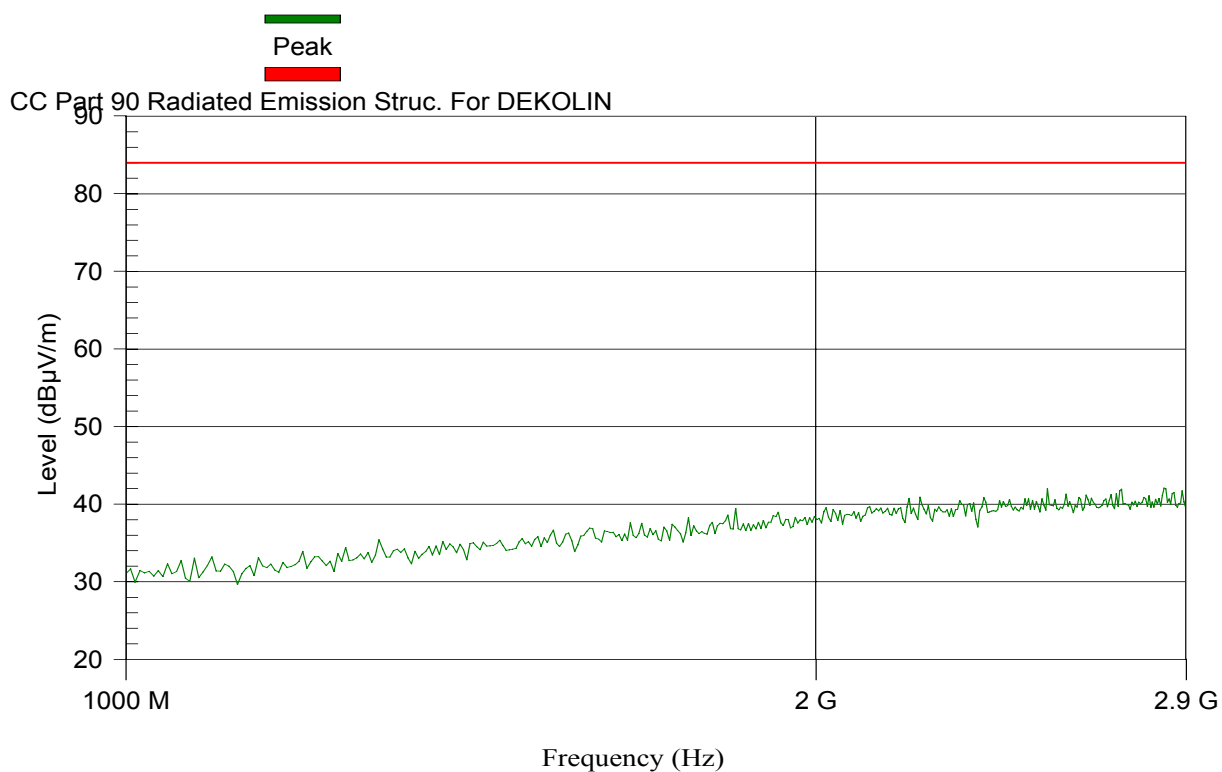
None

Test Results Plot No 58

FCC Part 90 1000-2900MHz (DL-1 f=860MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007
5:10:10 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

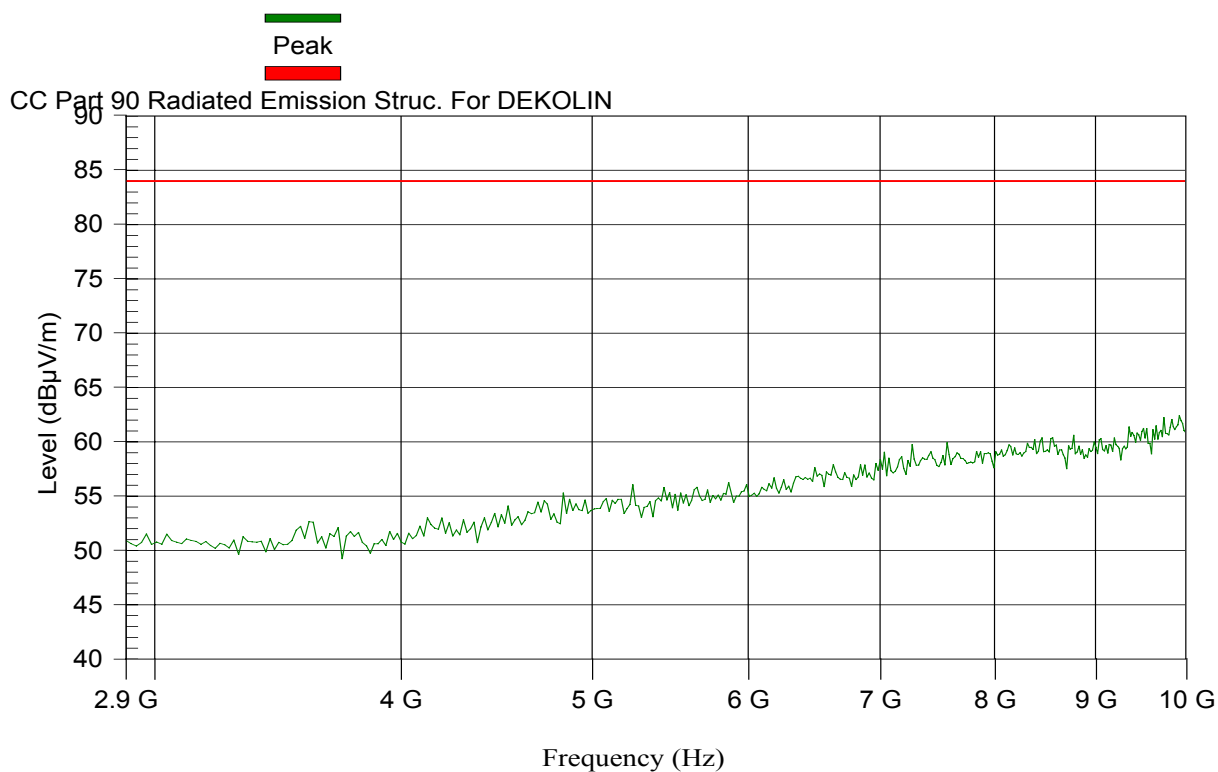
None

Test Results Plot No 59

FCC Part 90 2.9-10GHz (DL-1 f=860MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 18.61 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS:Tuesday, January 30, 2007 6:17:04 PM


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	9662.75	61.5	84	Pass	180	1	V
2	9716	61.8	84	Pass	180	1.3	H
3	9751.5	62.2	84	Pass	180	1.3	H
4	9840.25	62.1	84	Pass	180	1	V
5	9858	61.4	84	Pass	180	1	H
6	9893.5	61.4	84	Pass	270	1.3	H
7	9911.25	61.6	84	Pass	0	1	H
8	9929	63.1	84	Pass	180	1	V

9	9946.75	61.9	84	Pass	0	1	V
10	9964.5	61.7	84	Pass	90	1.3	H

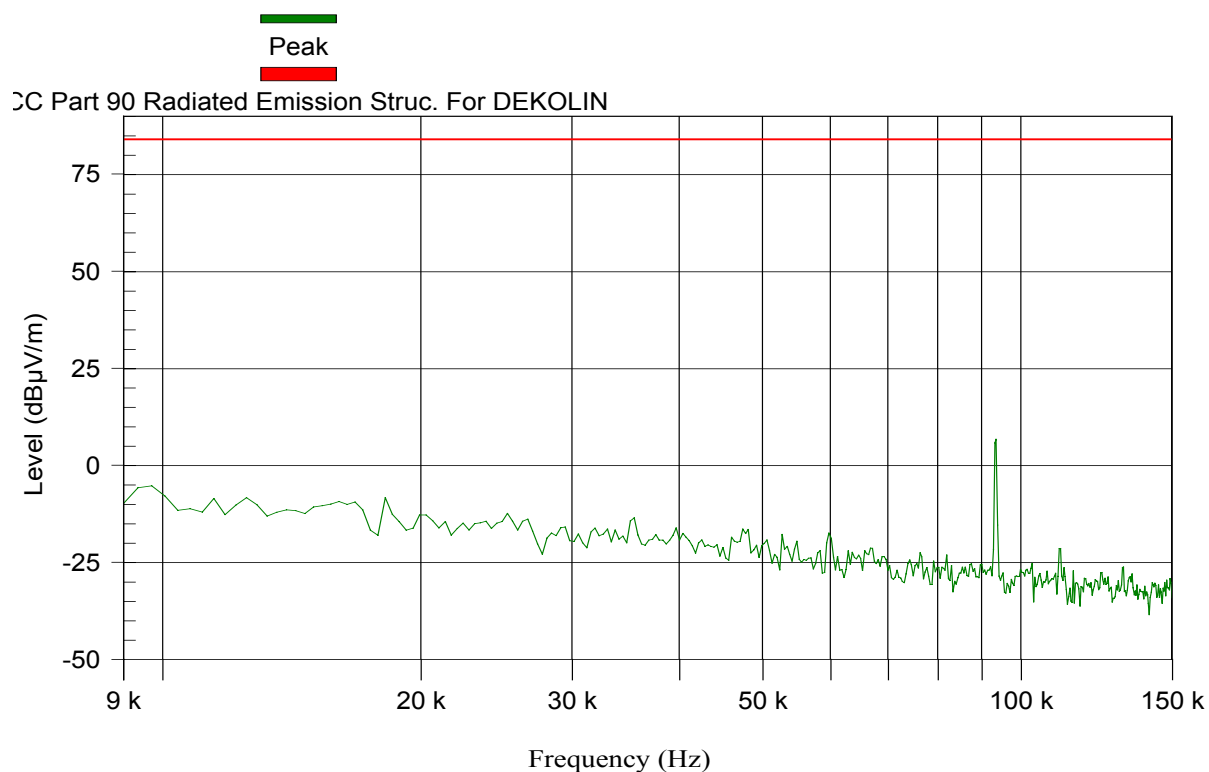
Test Results Plot No 60

FCC Part 90 0.009-0.15MHz (DL-1 f=869MHz,Input Pwr=-20dBm).

HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dBμV
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
3:22:17 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

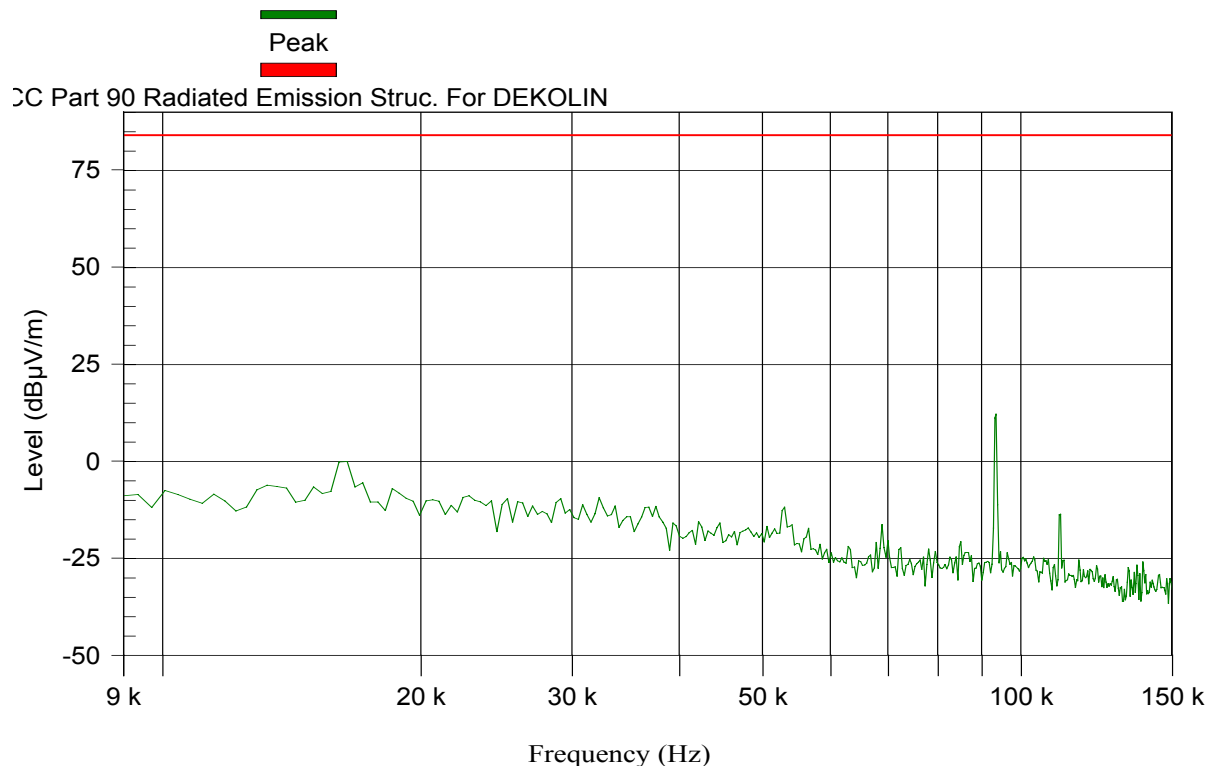
Test Results Plot No 61

FCC Part 90 0.009-0.15MHz (DL-1 f=869MHz,Input Pwr=-20dBm).

VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
4:00:43 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

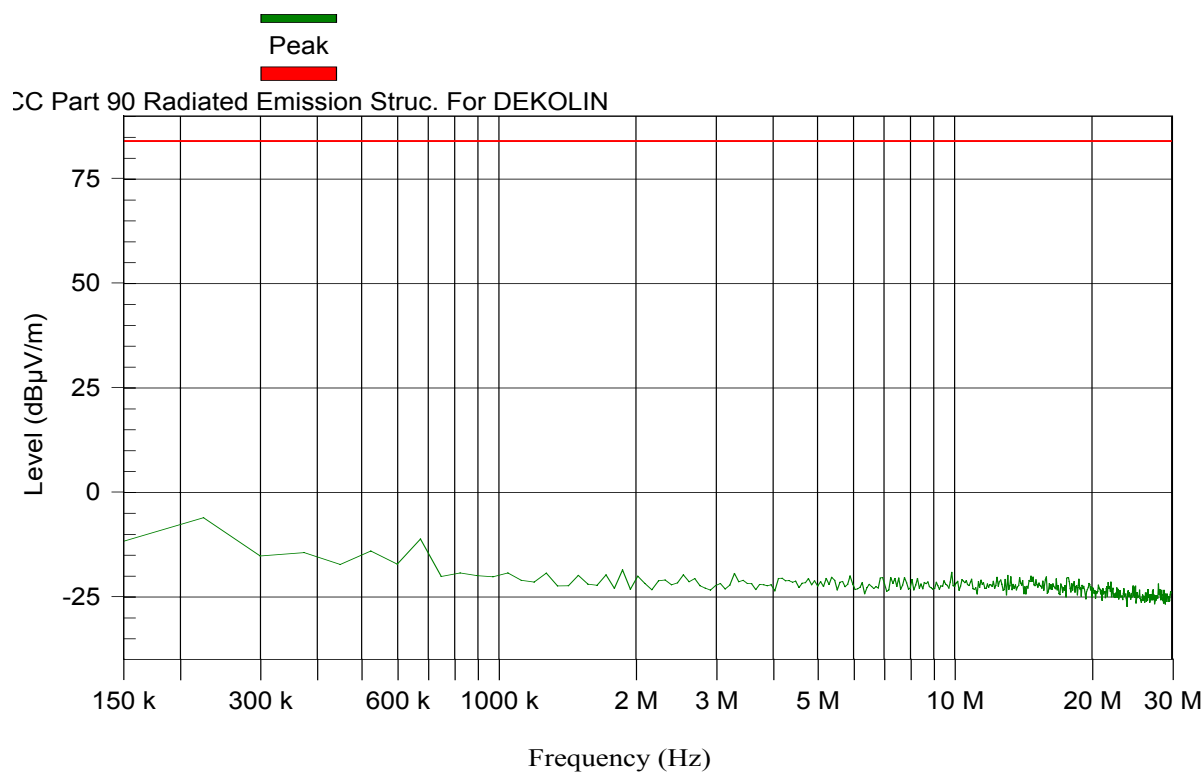
None

Test Results Plot No 62

**FCC Part 90 0.15-30MHz (DL-1 f=869MHz,Input Pwr=-20dBm).
HOR**

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
3:27:23 PM



MAXIMUM RESULT DEVIATION:

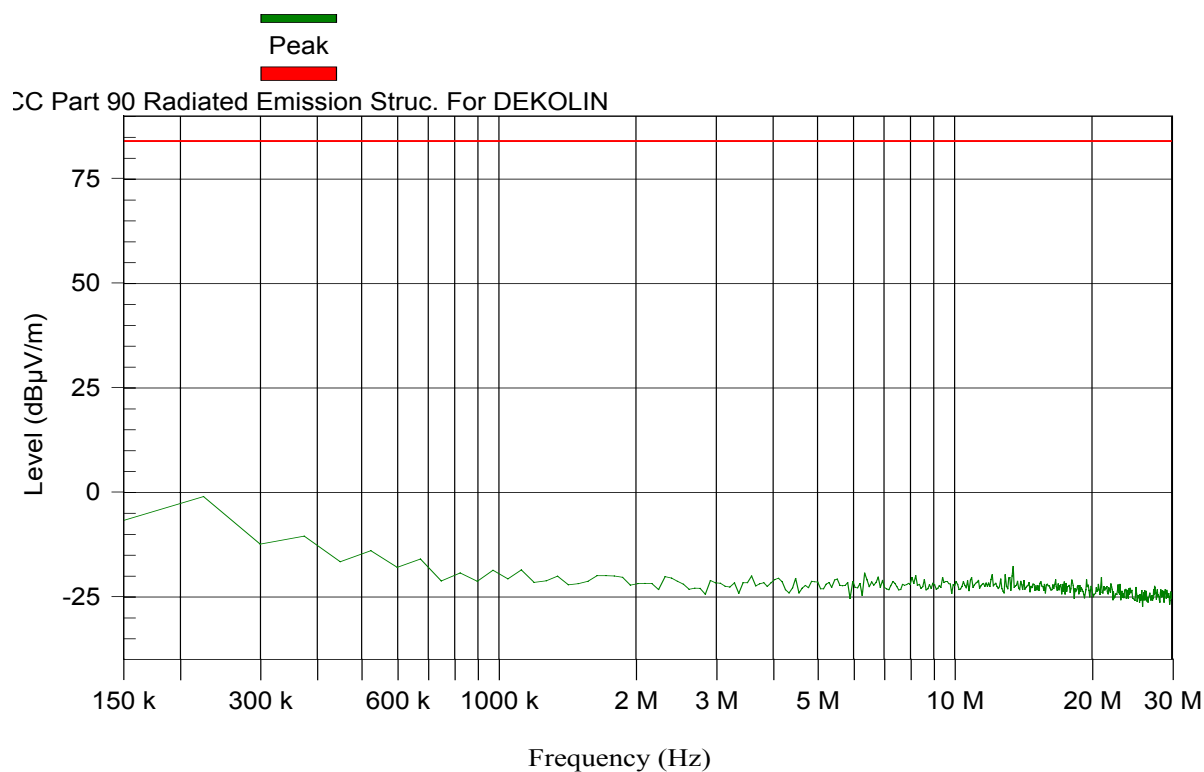
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 63

FCC Part 90 0.15-30MHz (DL-1 f=869MHz,Input Pwr=-20dBm).
VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
4:02:48 PM



MAXIMUM RESULT DEVIATION:

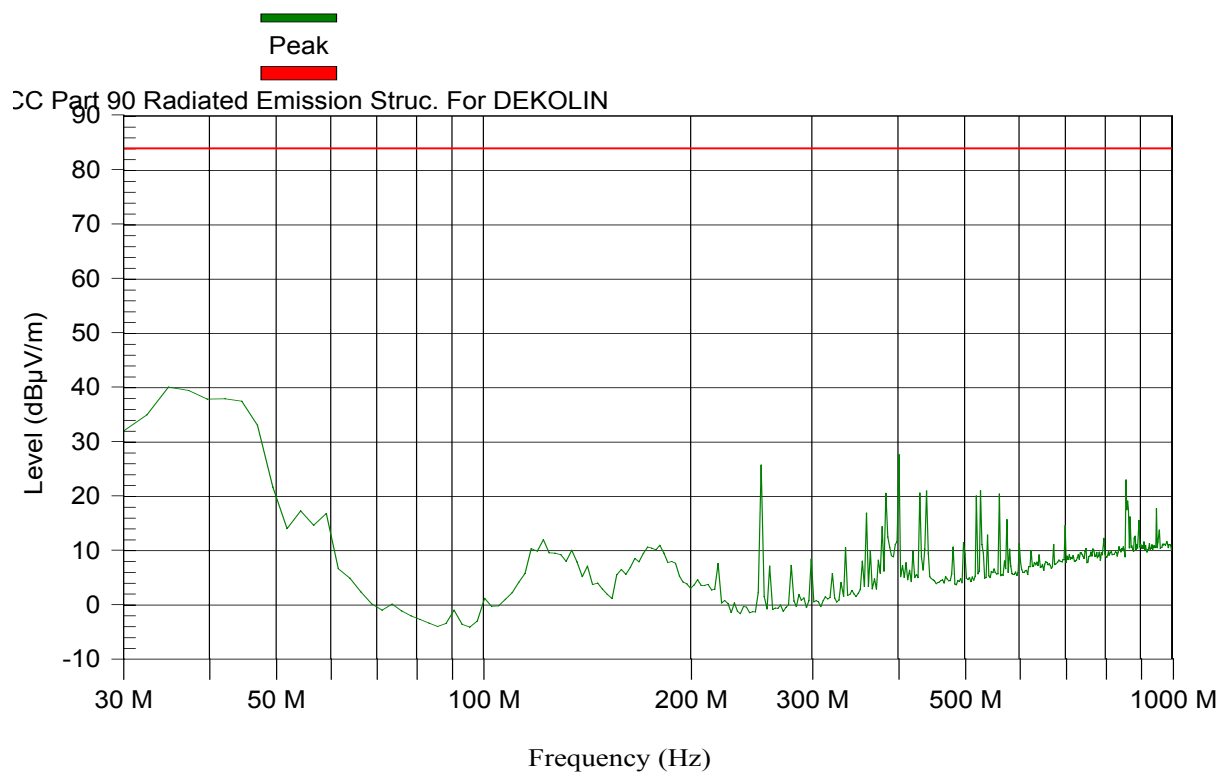
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 64

FCC Part 90 30-1000MHz (DL-1 f=869MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto: 9.7 s
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
10:54:16 AM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

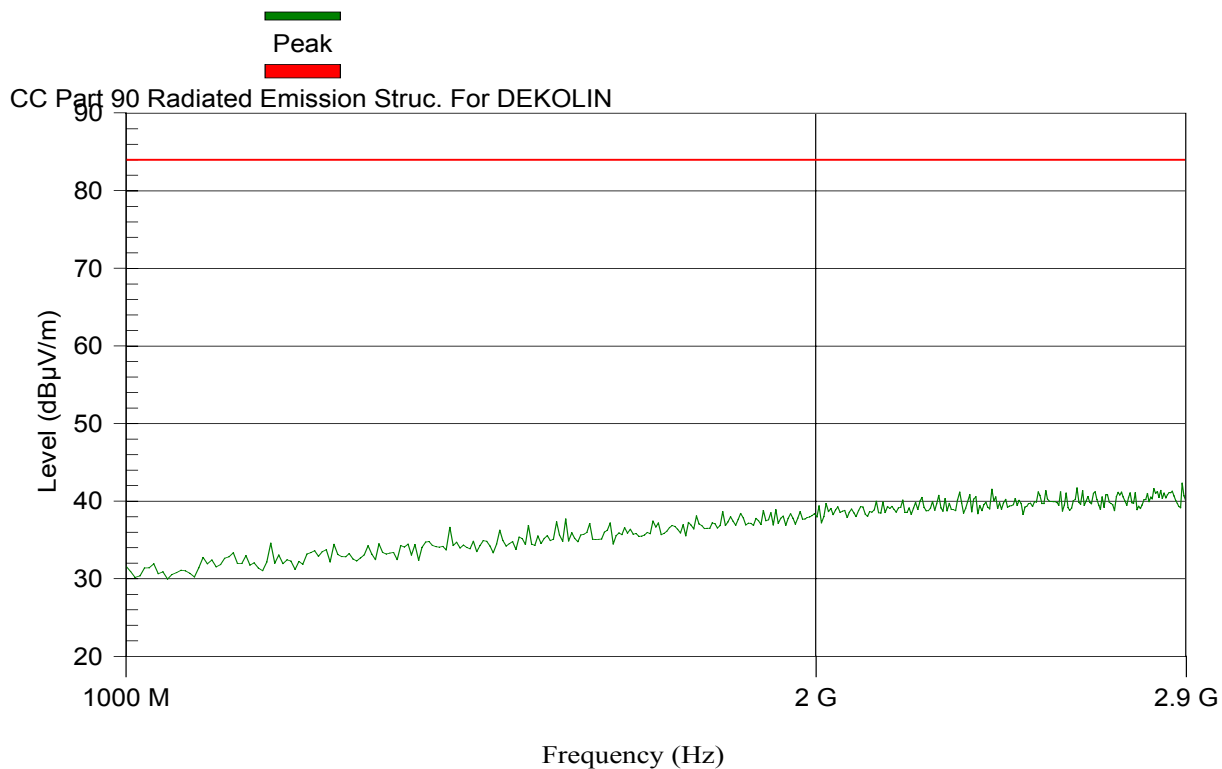
None

Test Results Plot No 65

FCC Part 90 1000-2900MHz (DL-1 f=869MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007
5:14:34 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

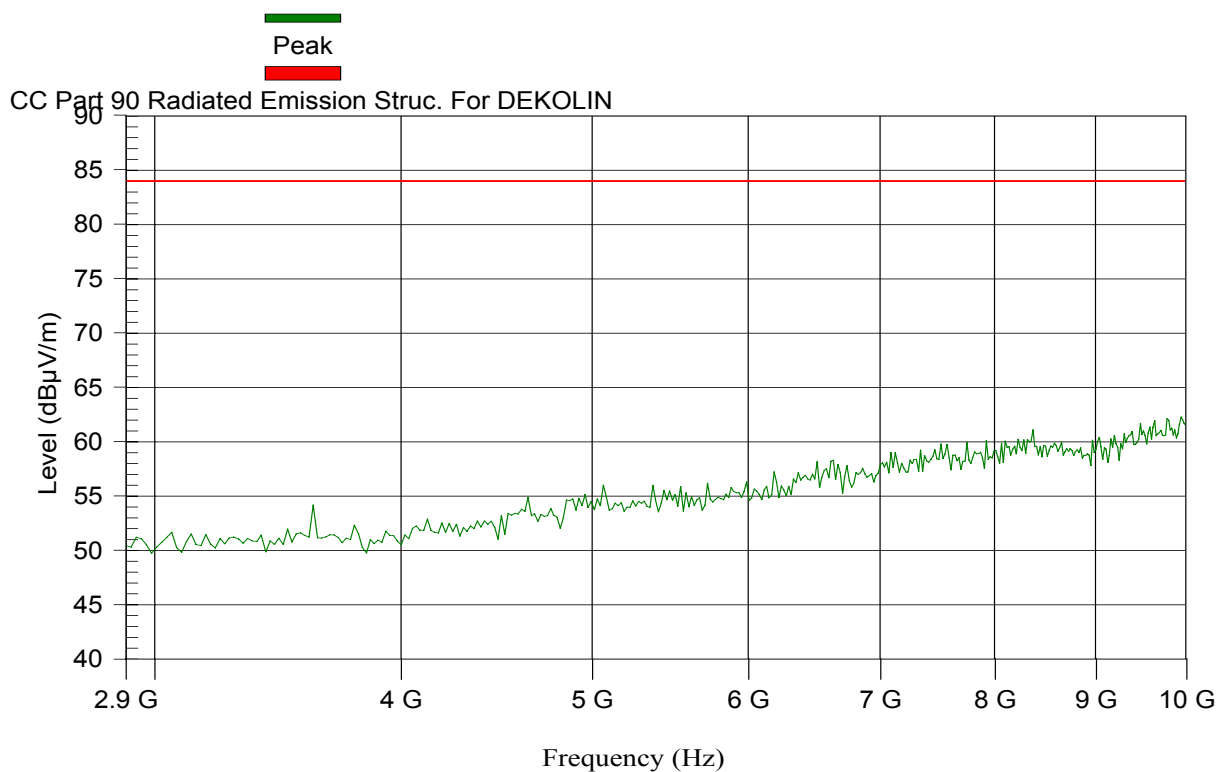
None

Test Results Plot No 66

FCC Part 90 2.9-10GHz (DL-1 f=869MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 18.61 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS:Tuesday, January 30, 2007 6:21:23 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	9485.25	61.7	84	Pass	270	1.3	V
2	9591.75	61.3	84	Pass	90	1.6	V
3	9627.25	61.3	84	Pass	0	1	V
4	9645	61.9	84	Pass	0	1.3	V
5	9716	61.8	84	Pass	90	1	H
6	9787	62.1	84	Pass	180	1.3	H
7	9929	61.6	84	Pass	270	1	H
8	9946.75	62.3	84	Pass	90	1.3	H

9	9964.5	62	84	Pass	270	1.3	H
10	9982.25	61.7	84	Pass	90	1.6	H

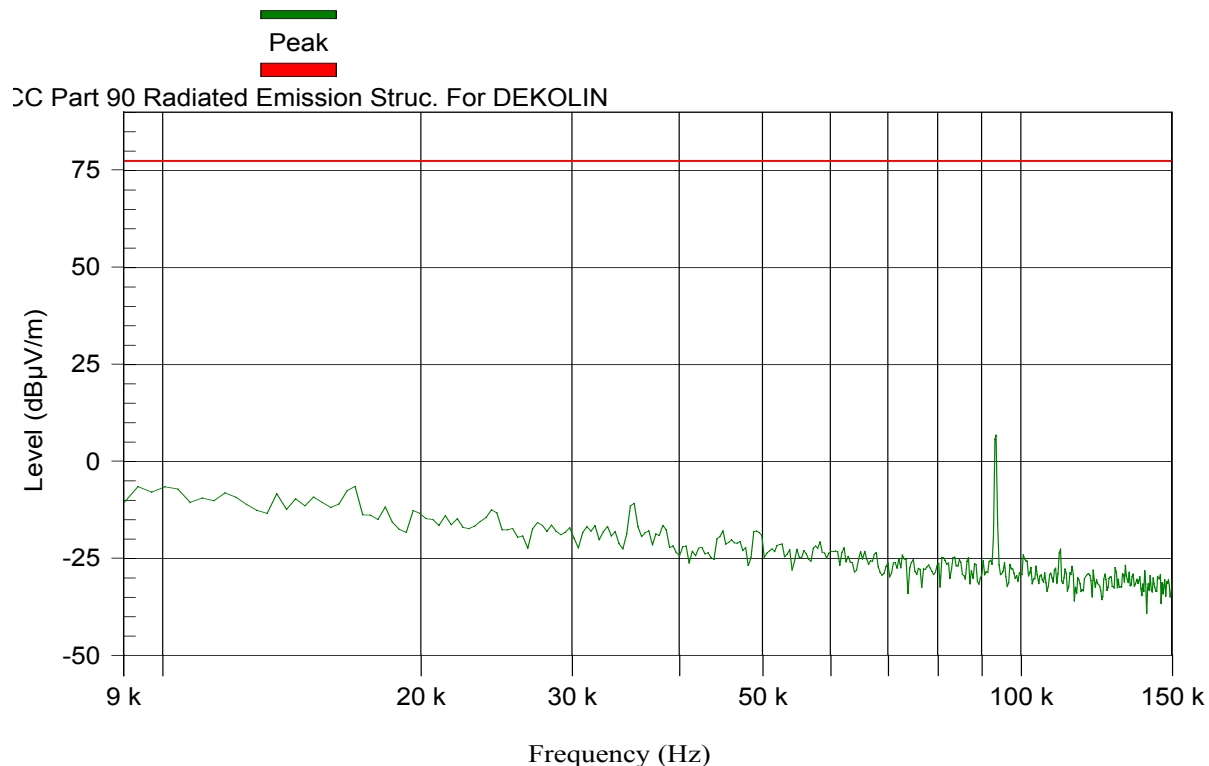
Test Results Plot No 67

FCC Part 90 0.009-0.15MHz (DL-2 f=935MHz,Input Pwr=-20dBm).

HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
3:30:07 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

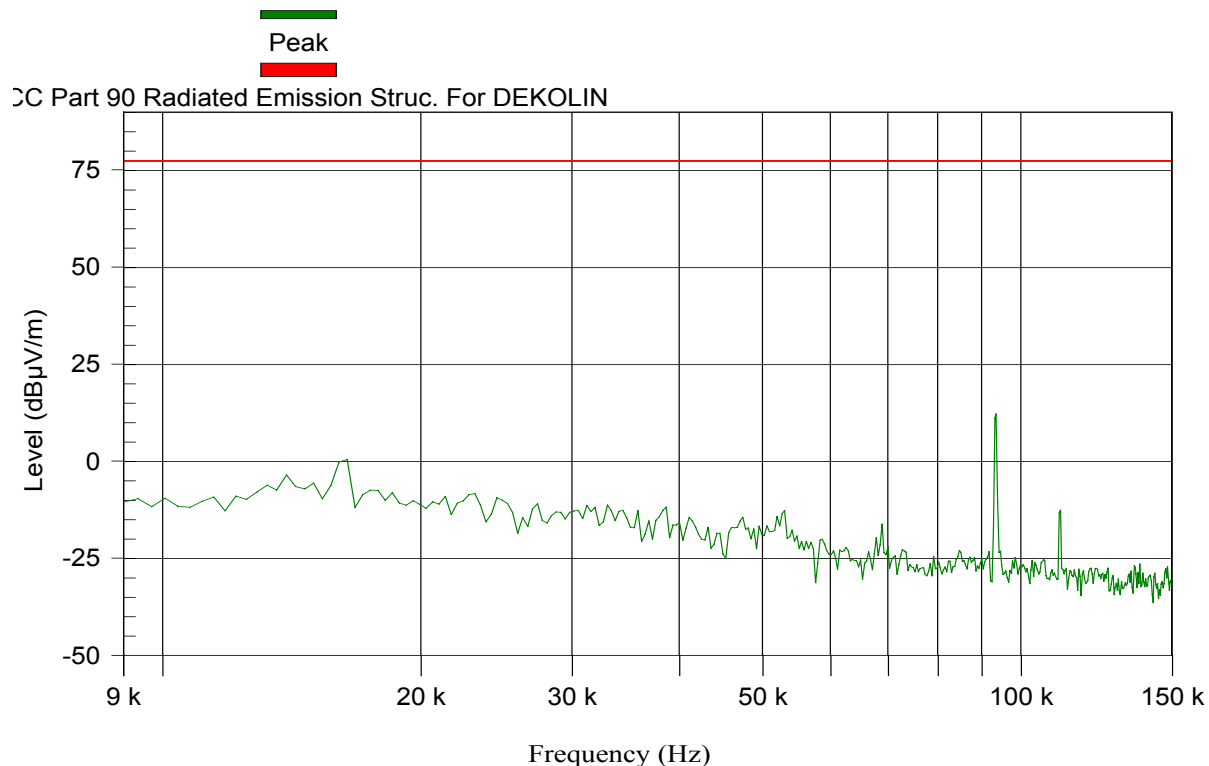
Test Results Plot No 68

FCC Part 90 0.009-0.15MHz (DL-2 f=935MHz,Input Pwr=-20dBm).

VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
4:11:28 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

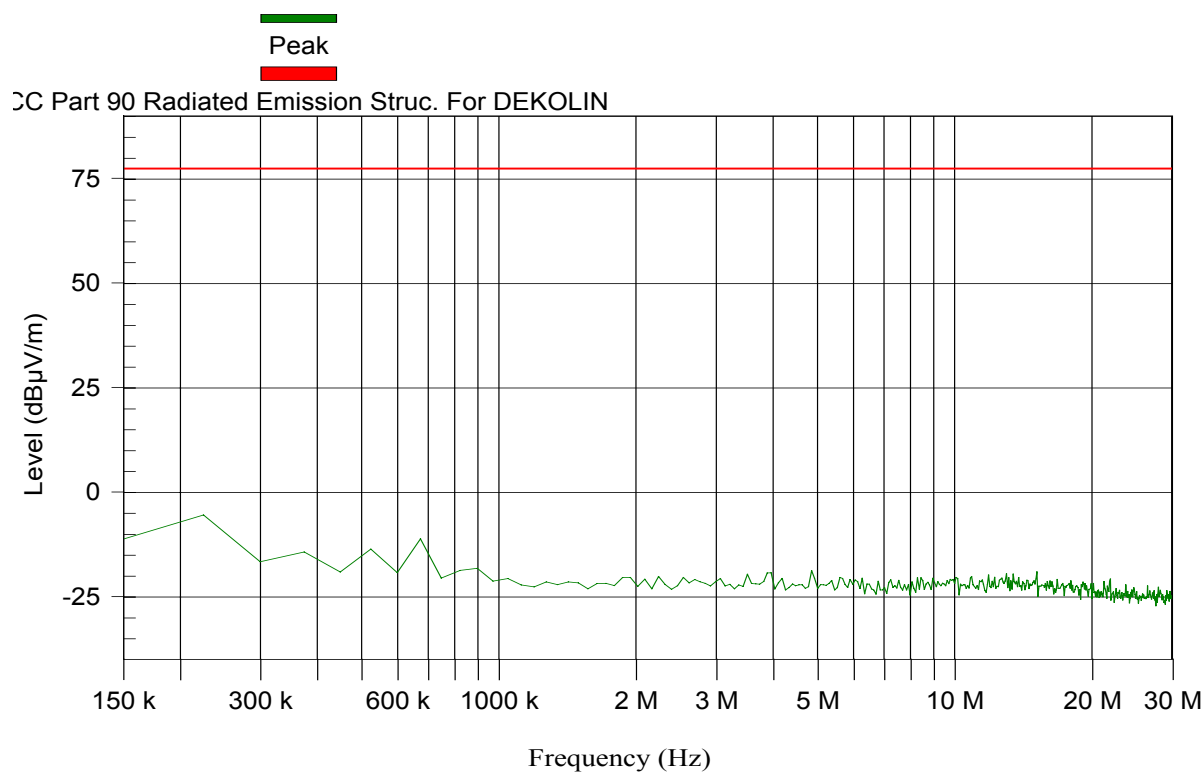
None

Test Results Plot No 69

**FCC Part 90 0.15-30MHz (DL-2 f=935MHz,Input Pwr=-20dBm).
HOR**

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
3:32:20 PM



MAXIMUM RESULT DEVIATION:

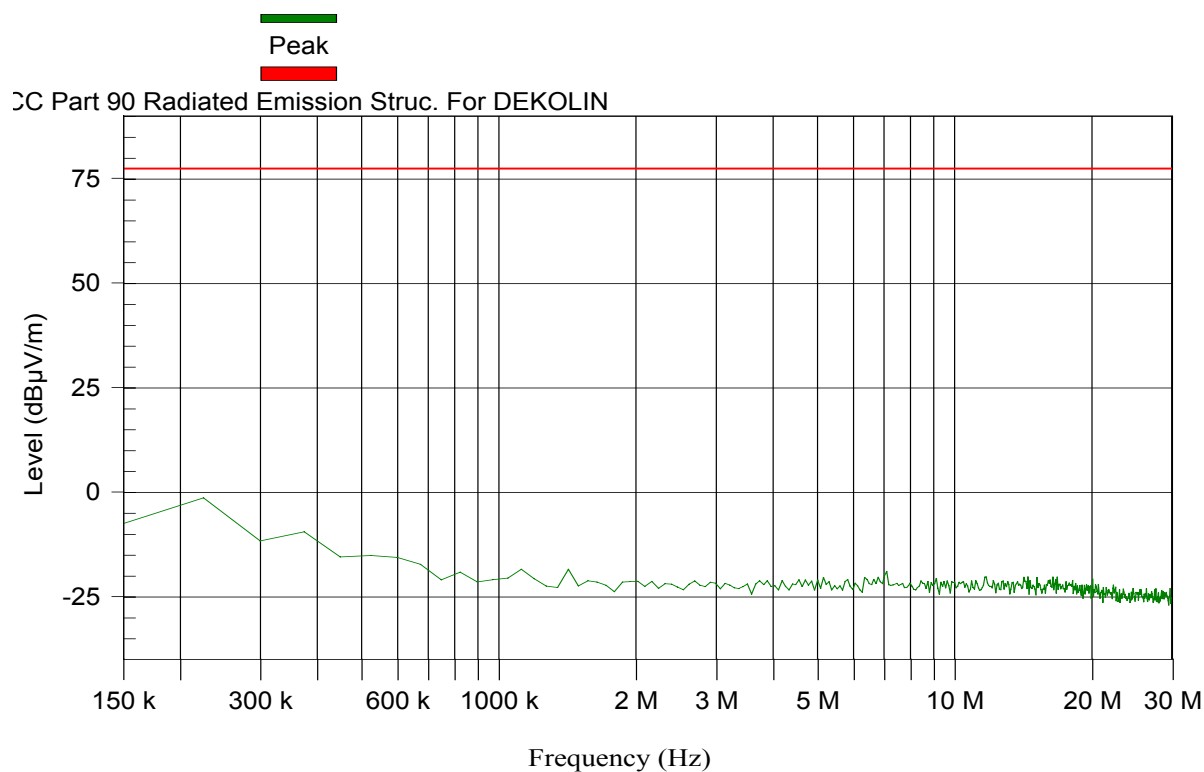
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 70

**FCC Part 90 0.15-30MHz (DL-2 f=935MHz,Input Pwr=-20dBm).
VER**

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dBμV
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
4:14:06 PM



MAXIMUM RESULT DEVIATION:

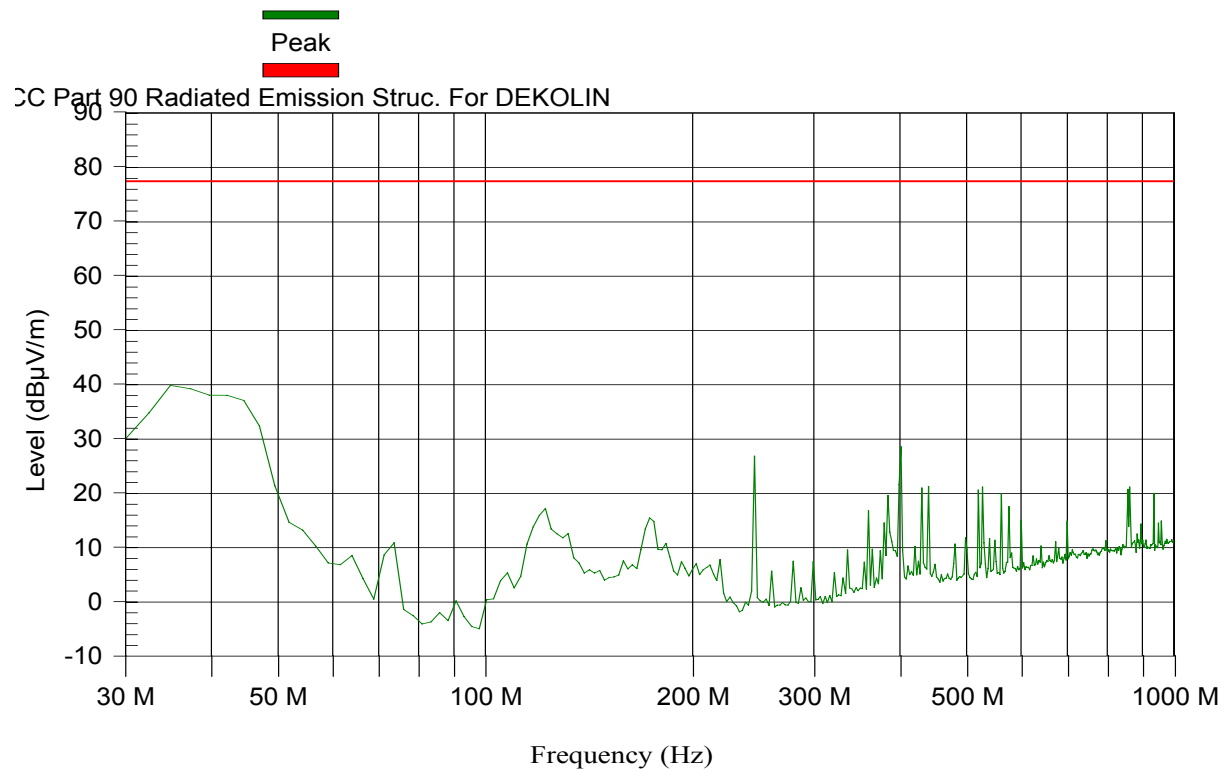
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 71

FCC Part 90 30-1000MHz (DL-2 f=935MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto: 9.7 s
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
11:03:29 AM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

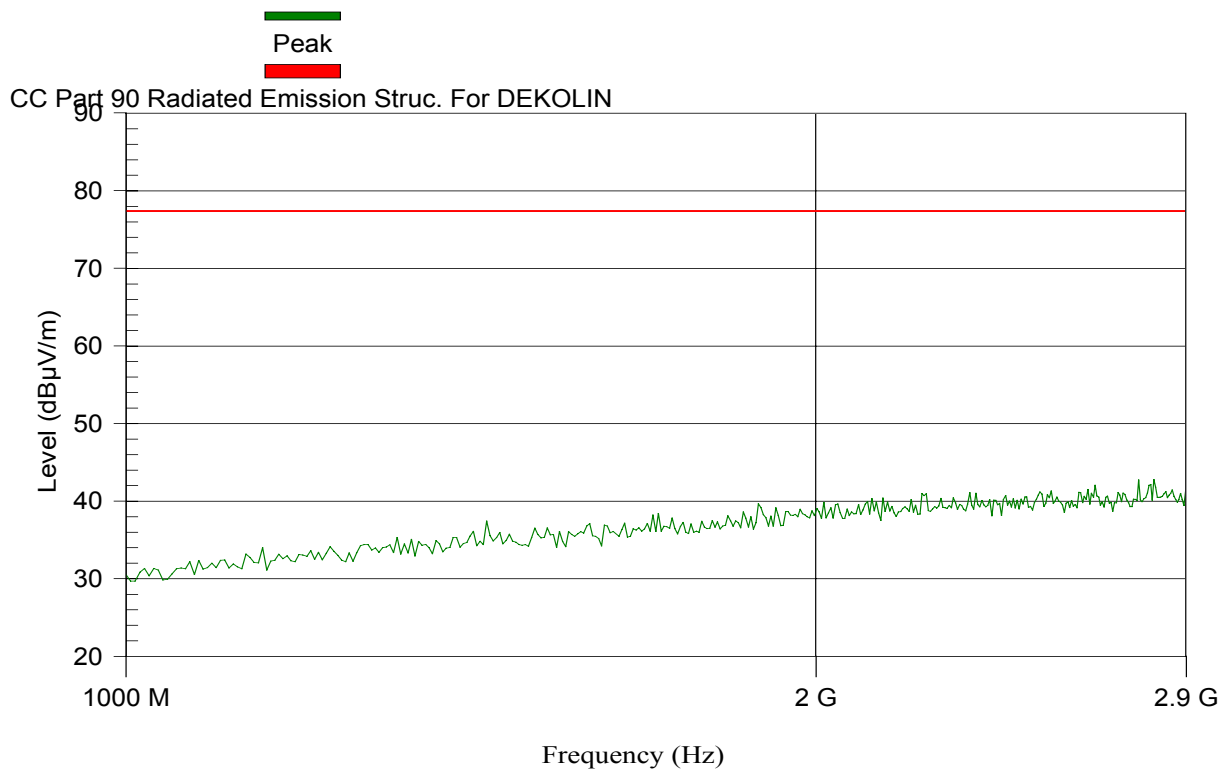
None

Test Results Plot No 72

FCC Part 90 1000-2900MHz (DL-2 f=935MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007
5:19:21 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

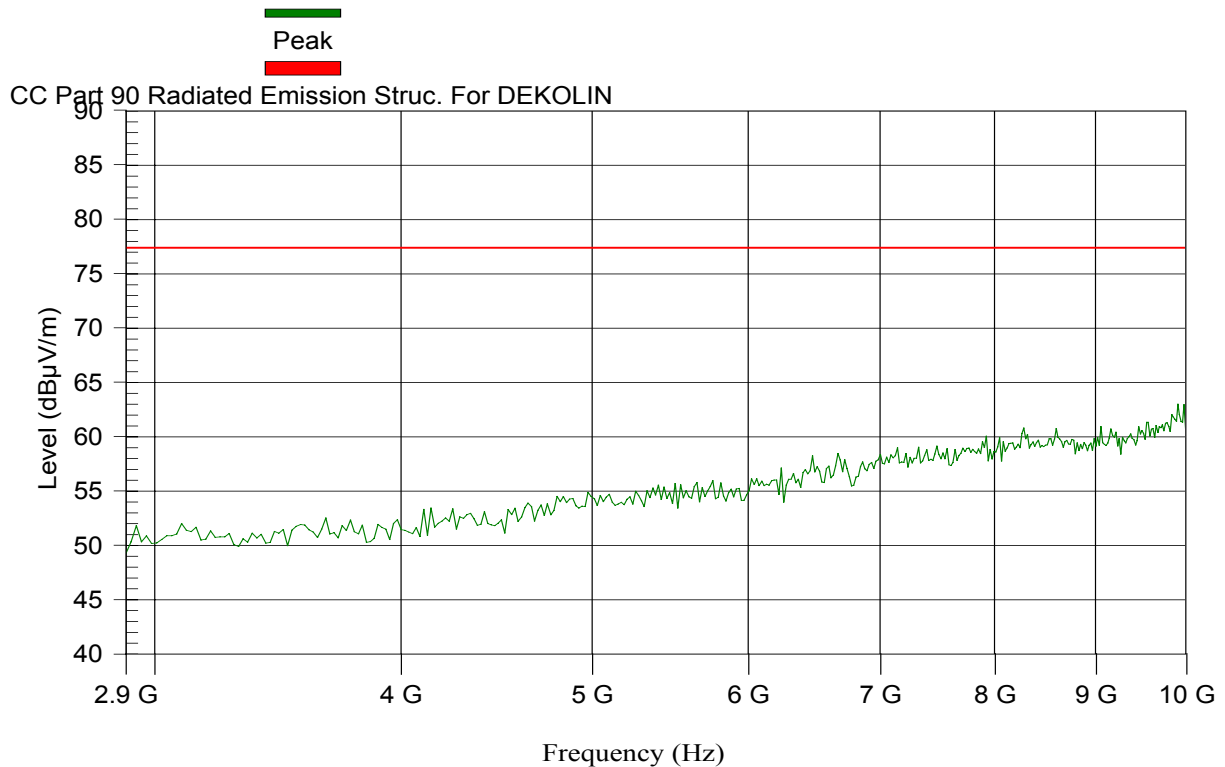
None

Test Results Plot No 73

FCC Part 90 2.9-10GHz (DL-2 f=935MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 18.61 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS:Tuesday, January 30, 2007 6:26:24 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	9733.75	61.8	77.4	Pass	180	1.6	V
2	9840.25	62	77.4	Pass	180	1.6	V
3	9858	61.8	77.4	Pass	270	1	H
4	9875.75	61.6	77.4	Pass	180	1.3	V
5	9893.5	61.4	77.4	Pass	0	1.6	H
6	9911.25	63	77.4	Pass	0	1.3	H
7	9929	62	77.4	Pass	180	1	H
8	9946.75	61.4	77.4	Pass	270	1.6	V

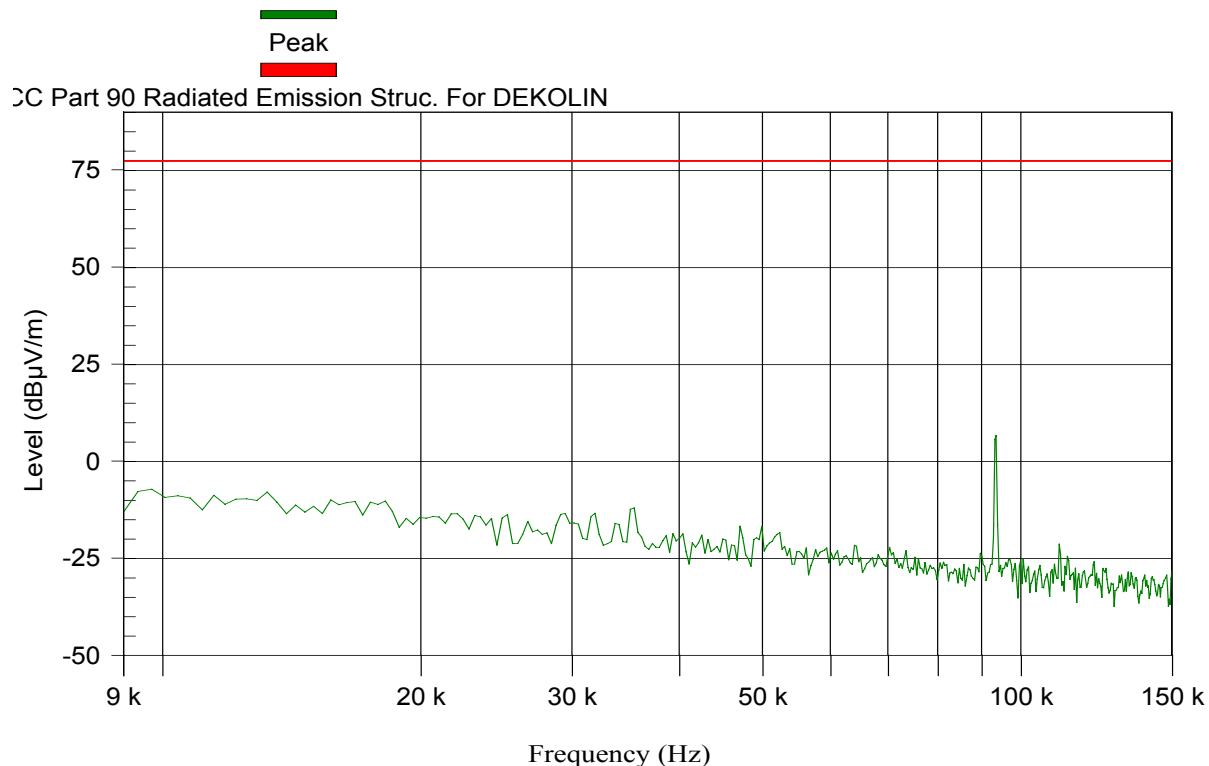
9	9964.5	61.4	77.4	Pass	180	1.3	H
10	9982.25	63	77.4	Pass	180	1	H

Test Results Plot No 74

FCC Part 90 0.009-0.15MHz (DL-2 f=937.5MHz,Input Pwr=-20dBm). HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
3:34:43 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

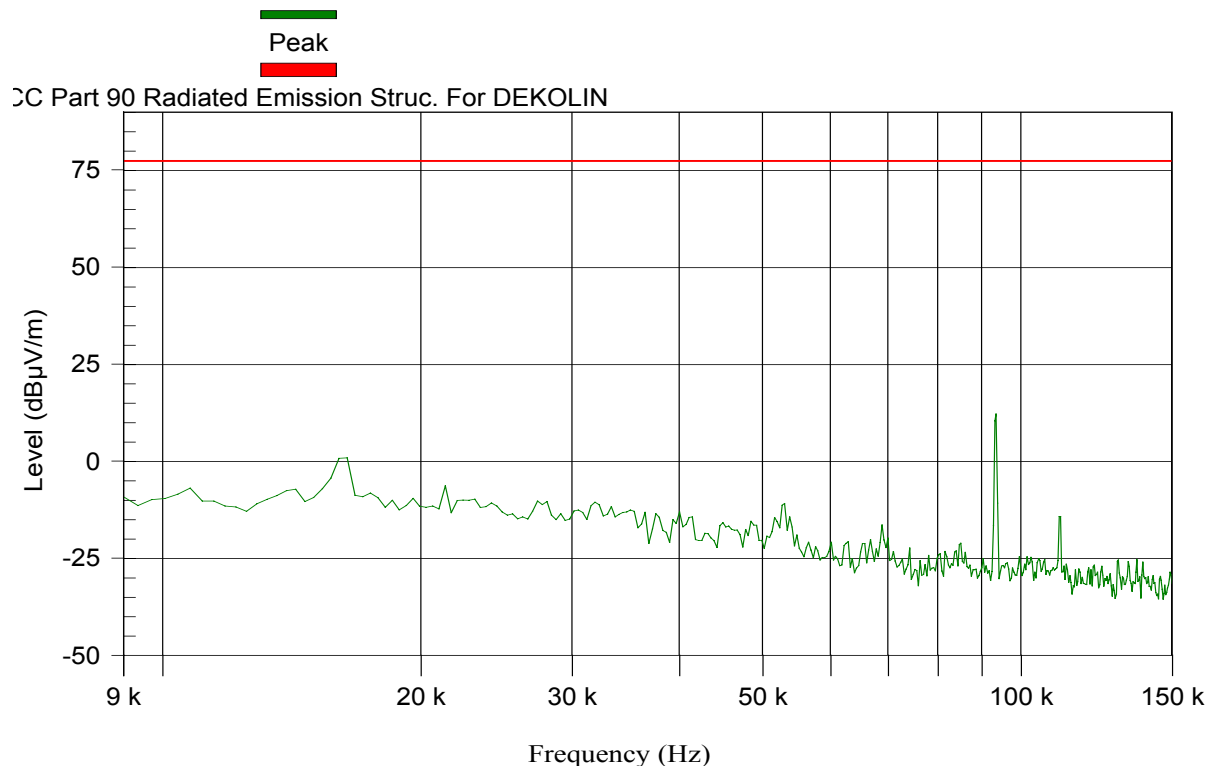
None

Test Results Plot No 75

FCC Part 90 0.009-0.15MHz (DL-2 f=937.5MHz,Input Pwr=-20dBm). VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
4:16:35 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

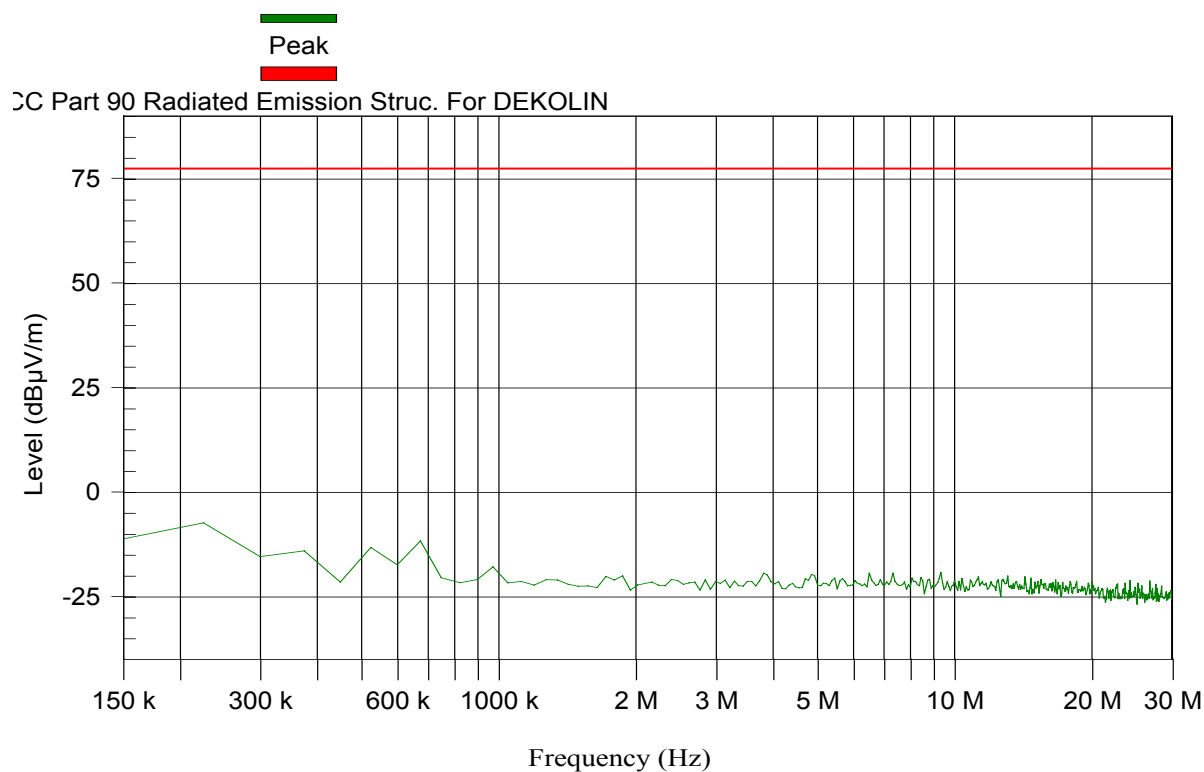
None

Test Results Plot No 76

**FCC Part 90 0.15-30MHz (DL-2 f=937.5MHz,Input Pwr=-20dBm).
HOR**

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
3:36:33 PM



MAXIMUM RESULT DEVIATION:

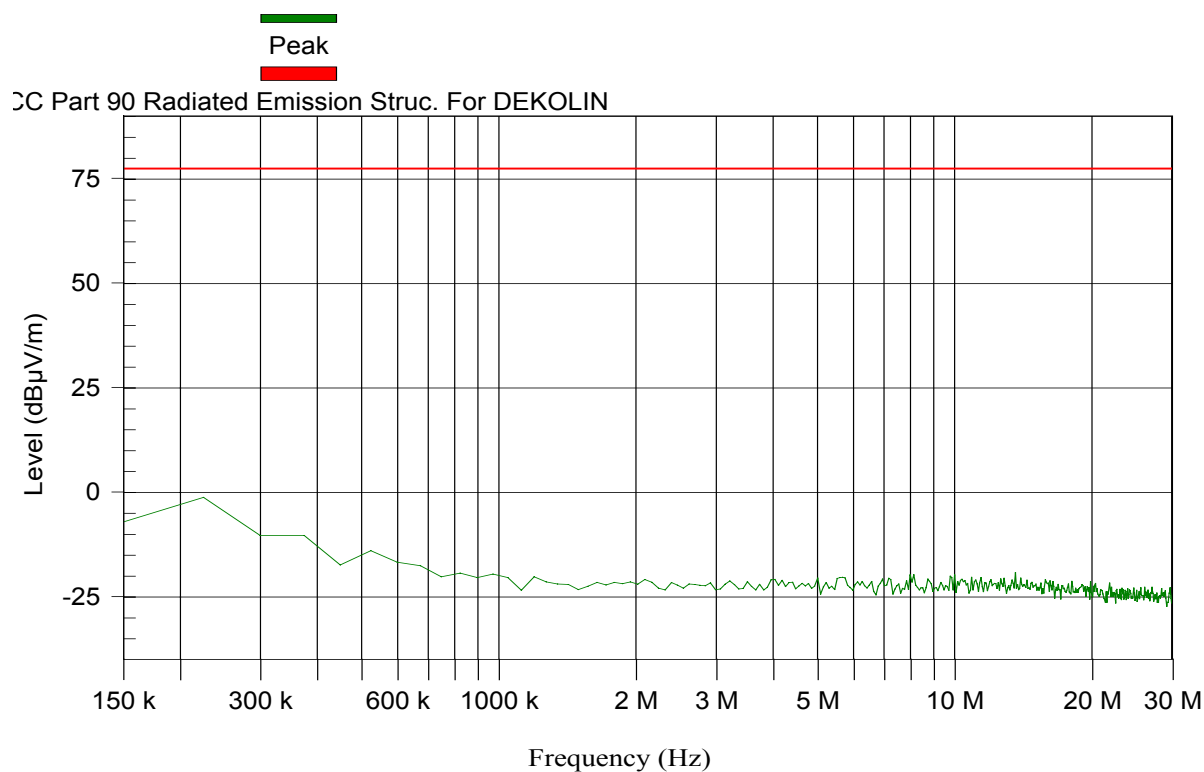
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 77

FCC Part 90 0.15-30MHz (DL-2 f=937.5MHz,Input Pwr=-20dBm).
VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
4:18:32 PM



MAXIMUM RESULT DEVIATION:

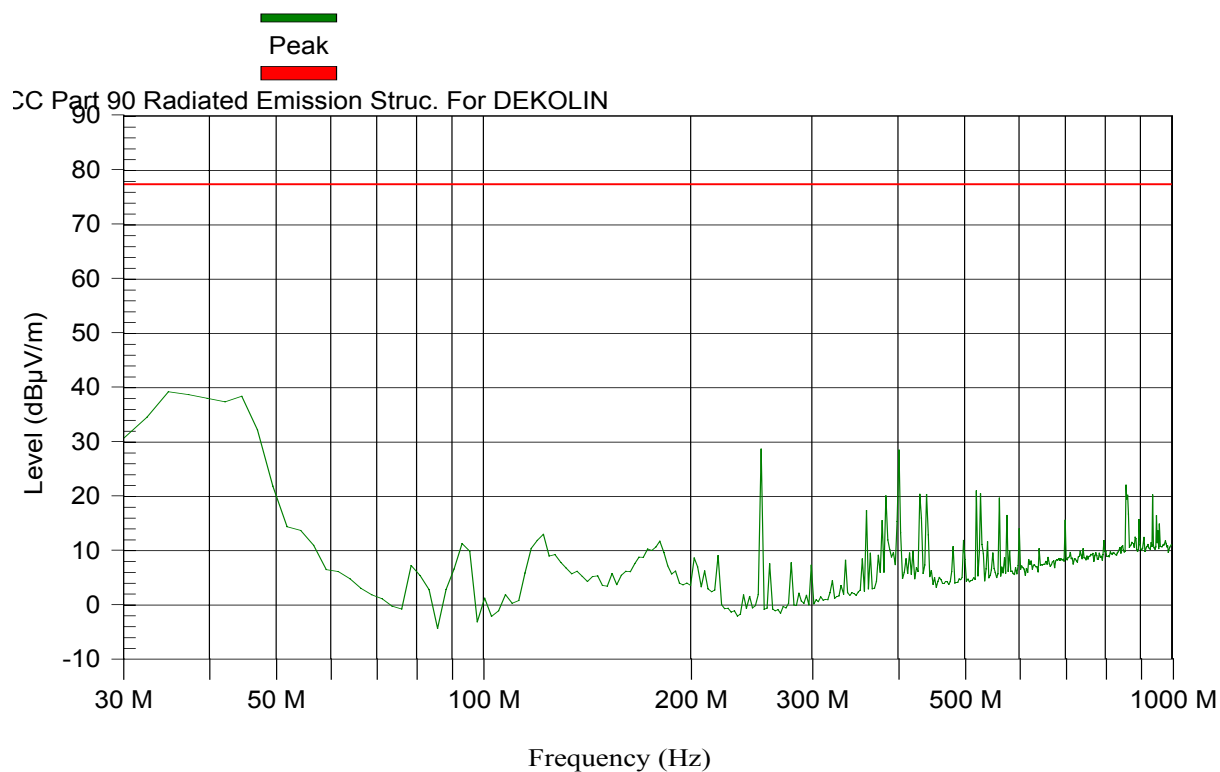
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 78

FCC Part 90 30-1000MHz (DL-2 f=937.5MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto: 9.7 s
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
11:11:24 AM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

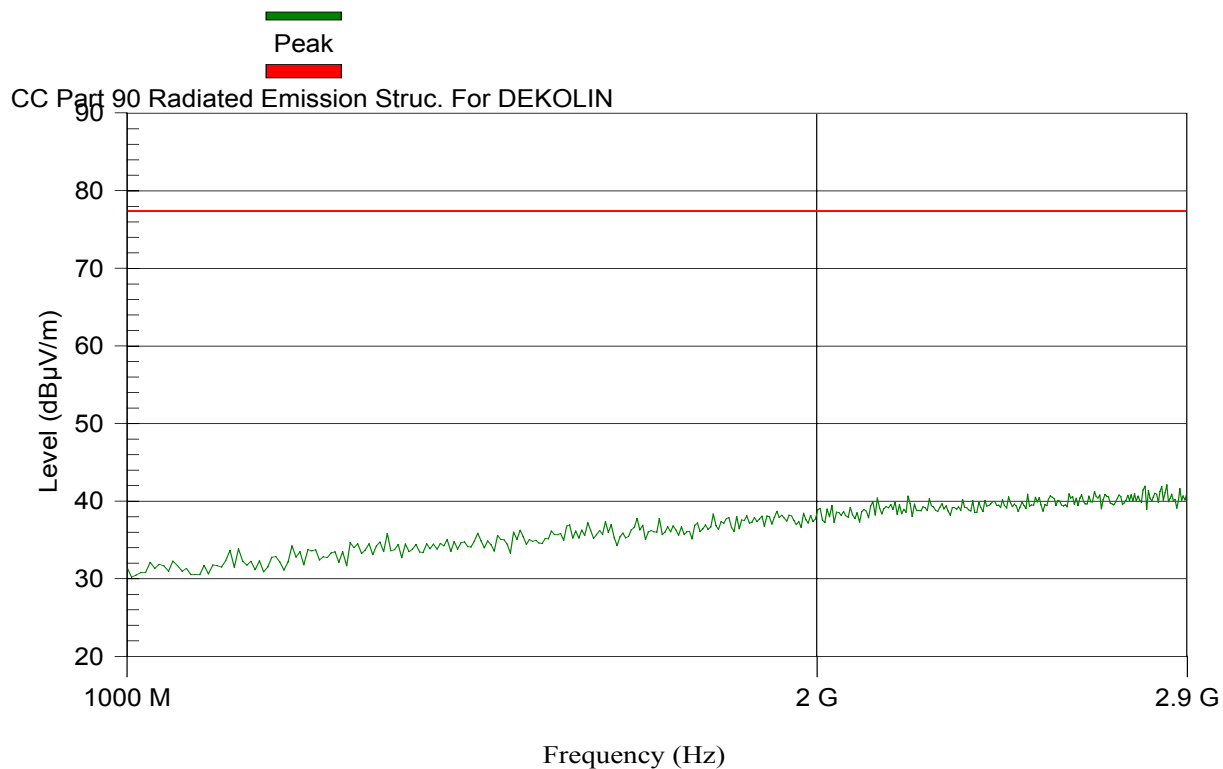
None

Test Results Plot No 79

FCC Part 90 1000-2900MHz (DL-2 f=937.5MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007
5:23:38 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

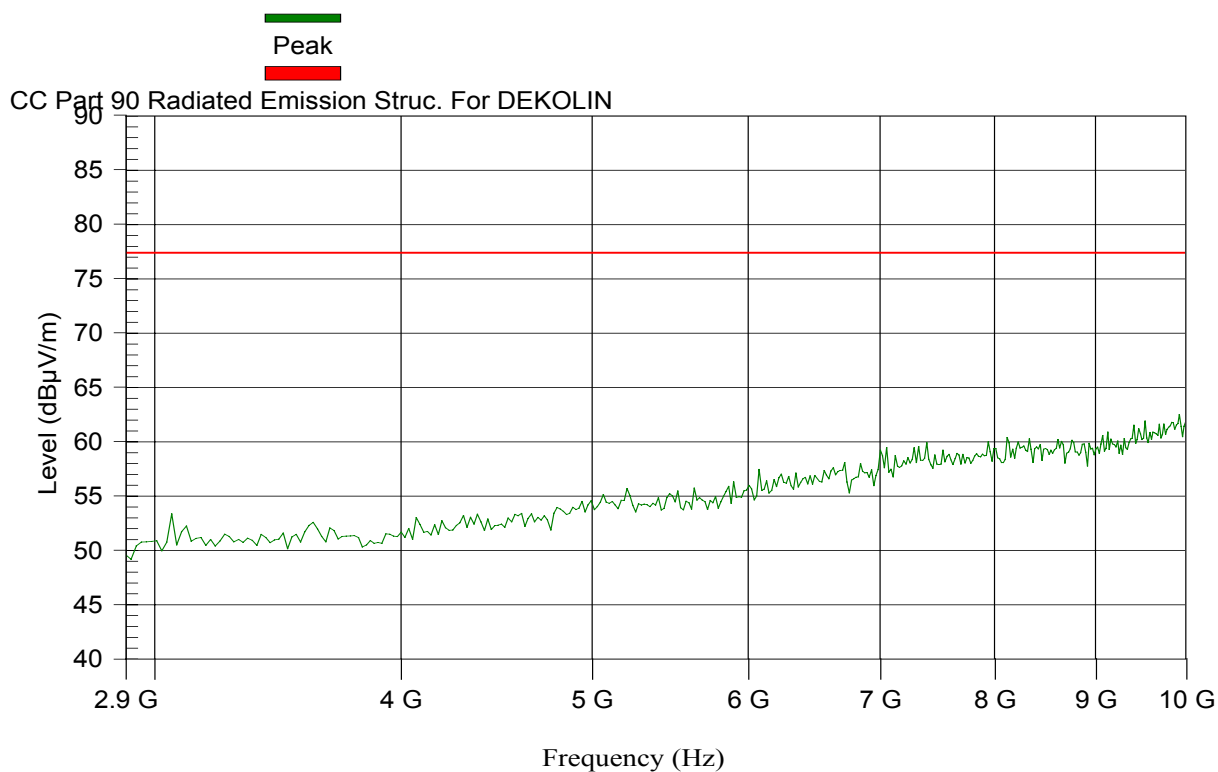
None

Test Results Plot No 80

FCC Part 90 2.9-10GHz (DL-2 f=937.5MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 18.61 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS:Tuesday, January 30, 2007 6:30:53 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	9538.5	61.9	77.4	Pass	270	1	V
2	9591.75	61.6	77.4	Pass	0	1	V
3	9698.25	61.6	77.4	Pass	270	1.3	H
4	9751.5	61.6	77.4	Pass	180	1.6	H
5	9840.25	61.8	77.4	Pass	90	1.3	V
6	9858	61.8	77.4	Pass	270	1.6	V
7	9893.5	61.6	77.4	Pass	0	1.6	H
8	9911.25	61.7	77.4	Pass	90	1.6	H

9	9929	62.5	77.4	Pass	180	1	V
10	10000	61.9	77.4	Pass	270	1	H

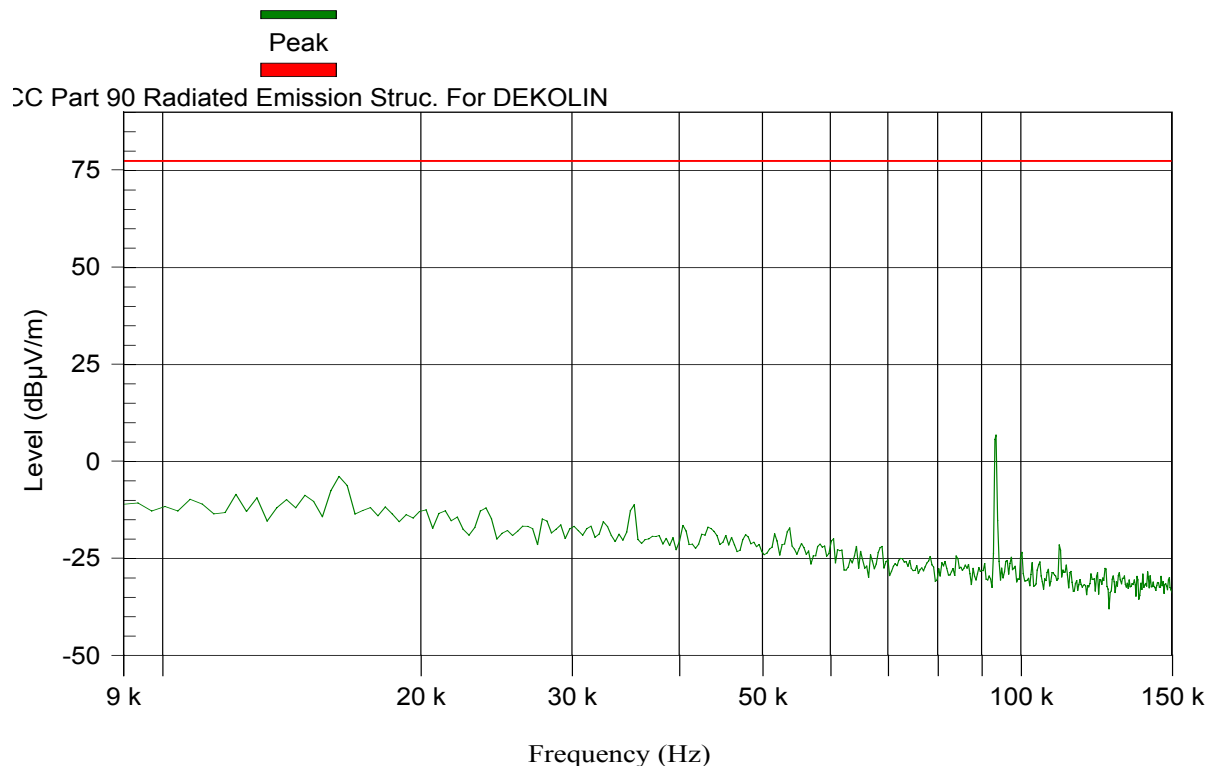
Test Results Plot No 81

FCC Part 90 0.009-0.15MHz (DL-2 f=940MHz,Input Pwr=-20dBm).

HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS: Tuesday, January 30, 2007
3:38:59 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

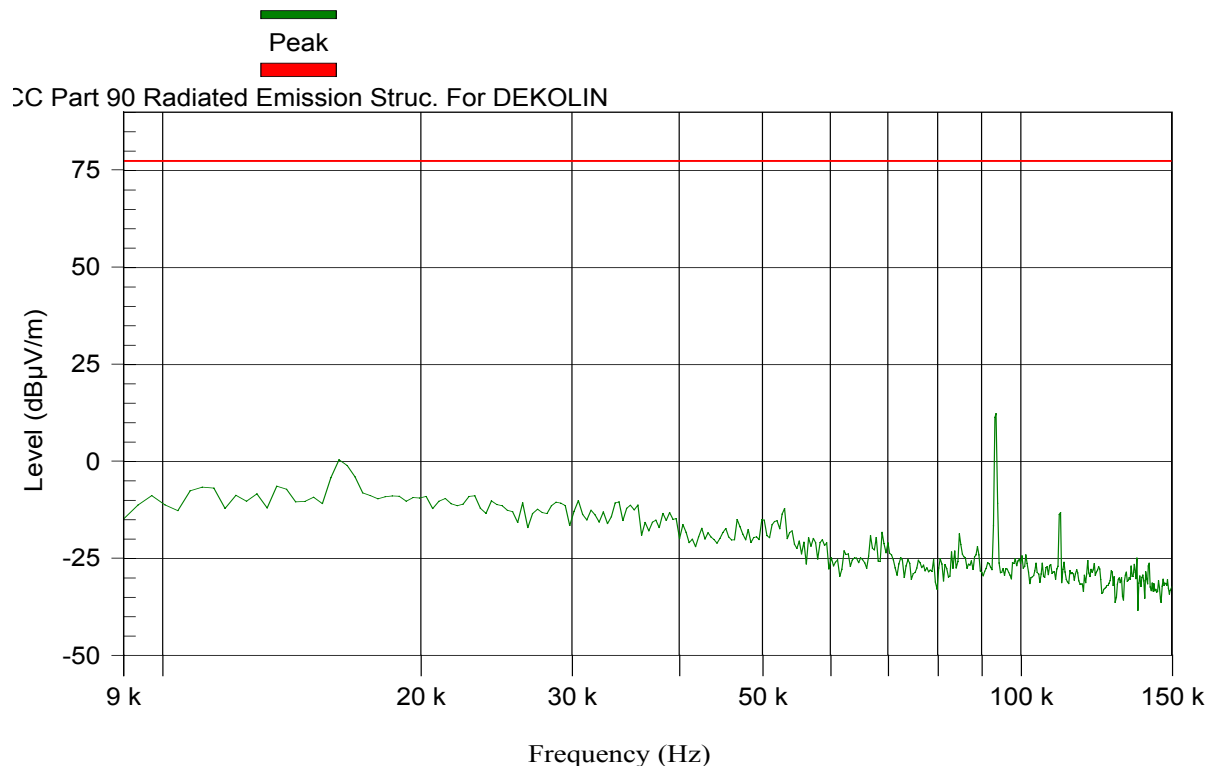
Test Results Plot No 82

FCC Part 90 0.009-0.15MHz (DL-2 f=940MHz,Input Pwr=-20dBm).

VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	300 Hz
Test Engineer:	SHIMON KOZLINER	VBW:	300 Hz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 6.3 s
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
4:22:21 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

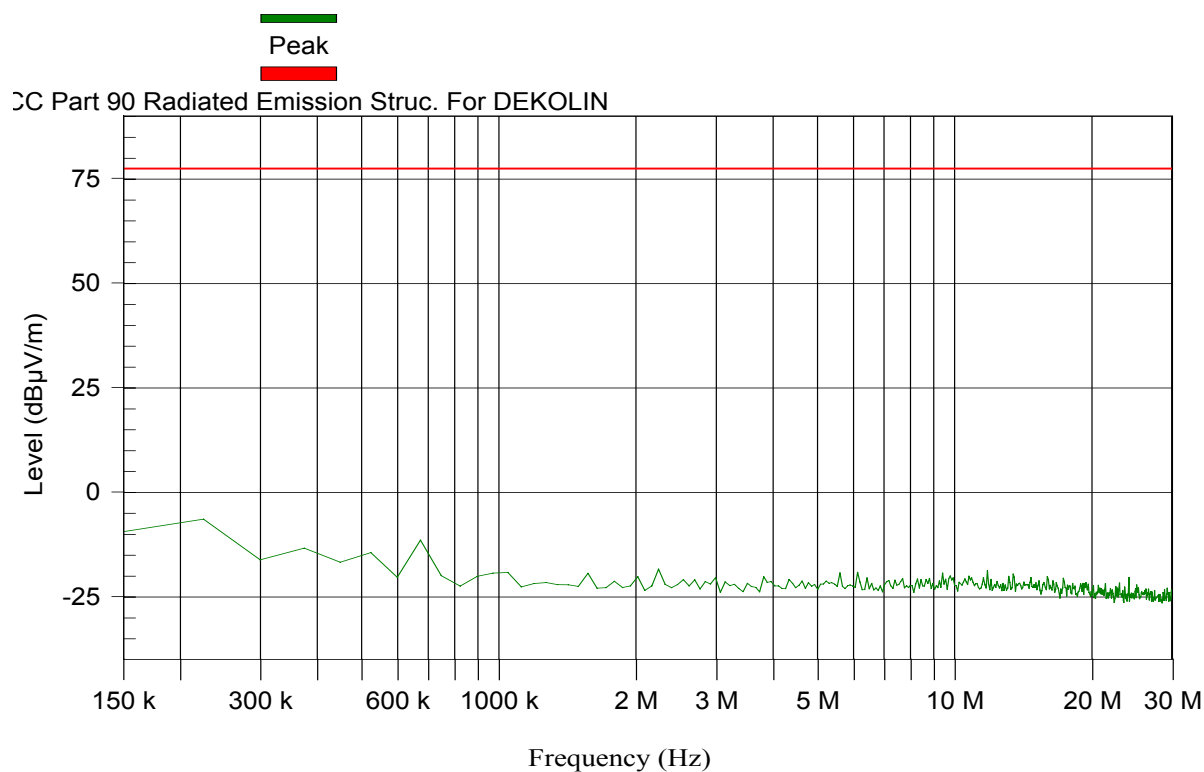
None

Test Results Plot No 83

FCC Part 90 0.15-30MHz (DL-2 f=940MHz,Input Pwr=-20dBm).
HOR

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
3:40:55 PM



MAXIMUM RESULT DEVIATION:

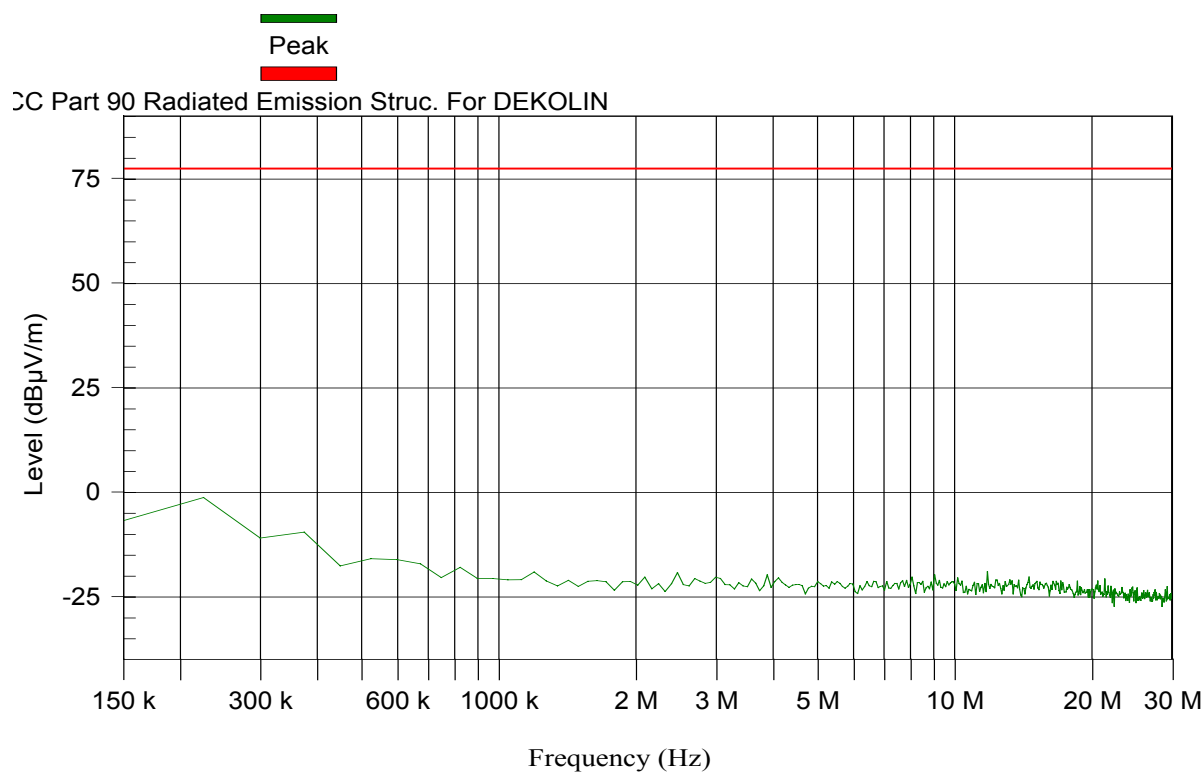
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 84

FCC Part 90 0.15-30MHz (DL-2 f=940MHz,Input Pwr=-20dBm).
VER

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	30 kHz
Antenna:	H FIELD ANT R&S 0.01-30MHz	Sweep Time:	Auto: 309.25 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
4:24:31 PM



MAXIMUM RESULT DEVIATION:

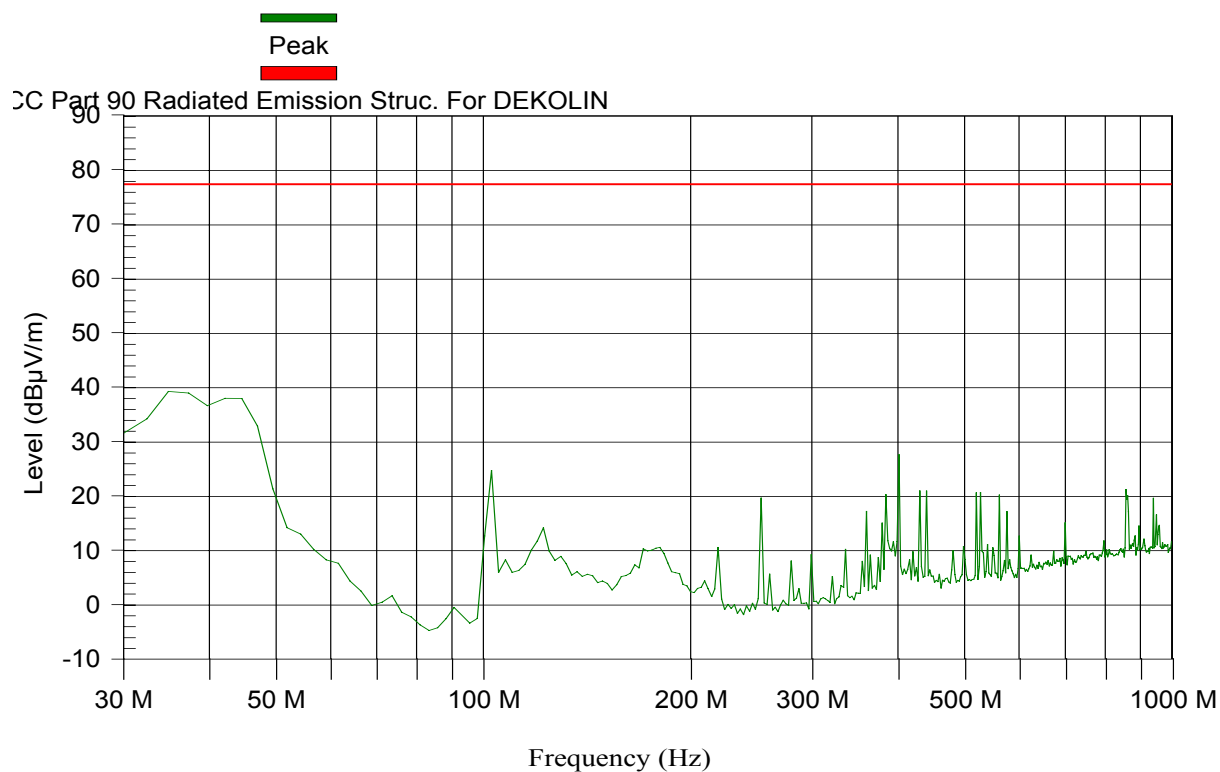
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.
None

Test Results Plot No 85

FCC Part 90 30-1000MHz (DL-2 f=940MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	80 dB μ V
Date of Test:		RBW:	10 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto: 9.7 s
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-1

TEST REMARKS:Tuesday, January 30, 2007
11:21:43 AM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

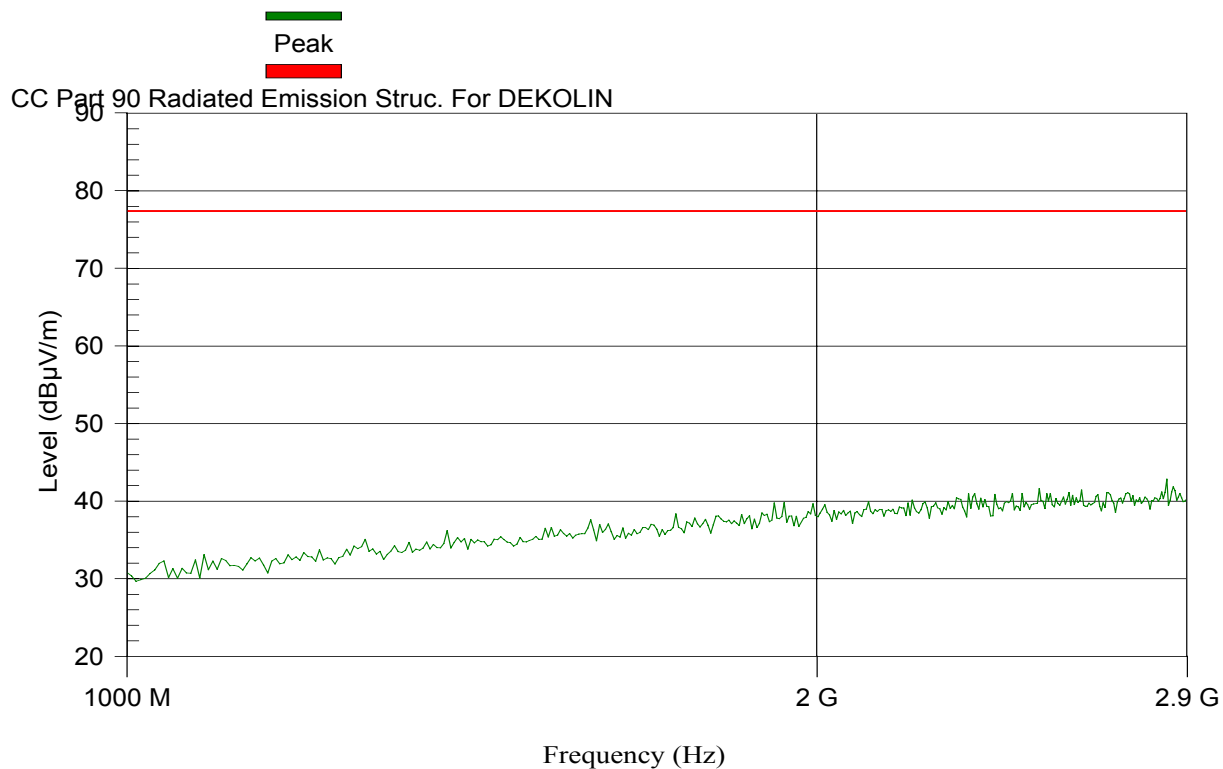
None

Test Results Plot No 86

FCC Part 90 1000-2900MHz (DL-2 f=940MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Tuesday, January 30, 2007
5:27:27 PM



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

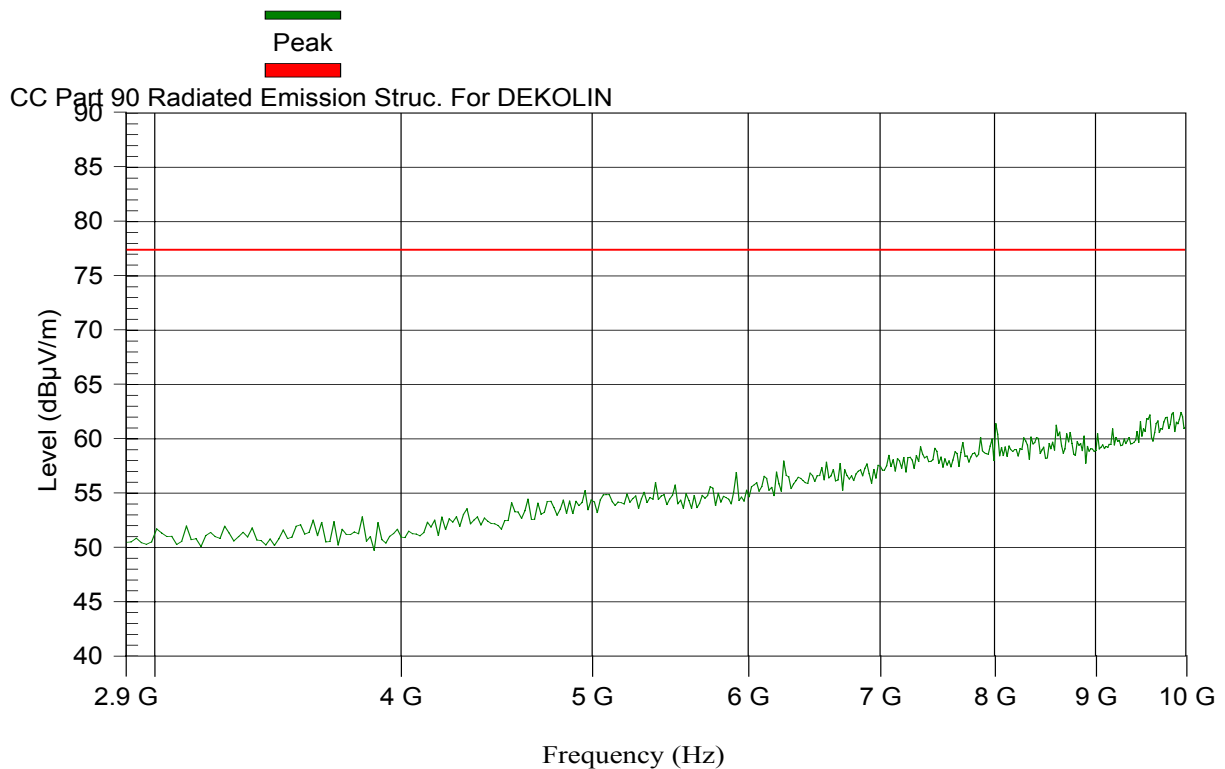
None

Test Results Plot No 87

FCC Part 90 2.9-10GHz (DL-2 f=940MHz,Input Pwr=-20dbm).

Test & EUT General Information		Receiver Setting	
EUT Name:	DEKO 3189	Spect Analyzer	AGILENT E7405A DC COUPLING
S/N:	07013031	Ref. Level:	70 dB μ V
Date of Test:		RBW:	1000 kHz
Test Engineer:	SHIMON KOZLINER	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 18.61 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS:Tuesday, January 30, 2007 6:34:57 PM


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	9556.25	61.9	77.4	Pass	180	1.6	H
2	9574	61.8	77.4	Pass	180	1.6	V
3	9591.75	62.2	77.4	Pass	270	1.6	H
4	9769.25	61.9	77.4	Pass	90	1	V
5	9787	62	77.4	Pass	180	1.3	V
6	9840.25	63	77.4	Pass	90	1.3	H
7	9858	62.4	77.4	Pass	0	1.6	V
8	9911.25	62.1	77.4	Pass	180	1.6	V

9	9946.75	62.4	77.4	Pass	270	1.3	V
10	9964.5	62	77.4	Pass	0	1.6	H

e. Test Instrumentation and Equipment**Table 13.d Test Instrumentation and Equipment**

Item	Model	Manufacturer	Next Date Calibration
Spectrum Analyzer	8593E	HP	31.01.06
Broadband Antenna	BTA-L	FRANKONIA	10.04.06

f. Test Procedures

Test Procedure for field strength measurement

- (1) The EUT was setup as shown in figure 13e1
- (2) The EUT was adjusted to produce maximum power output Δ after selecting the EUT axis for maximum emission
- (3) The Spectrum analyzer was set to 100 KHz bandwidth

Test Procedure for field strength peak power density measurement

- (4) The EUT was setup as shown in figure 13e2
- (5) RF signal generator was set to the EUT carrier frequency and the RF output level was adjusted to produce the same field strength as it was measured from the EUT
- (6) The test antenna height was swept to find maximum emission from substitute antenna and RF signal generator was adjusted to produce the same field strength as it was measured from the EUT
- (7) The ERP was calculated as a sum of signal generator output power in dbm and antenna gain
- (8) Paragraph 4 through 7 was performed in both horizontal and vertical polarization of the test antenna

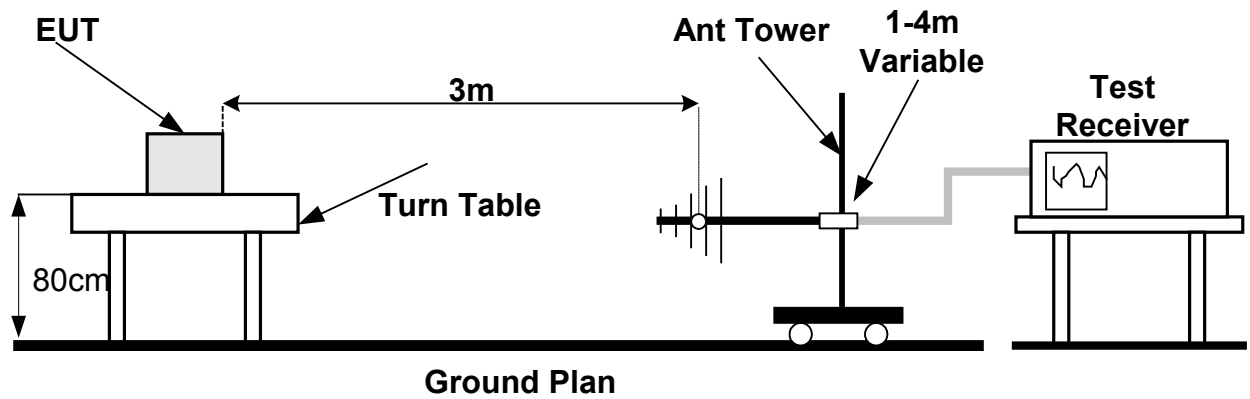


Figure 13e1 Test setup field strength peak power density measurement

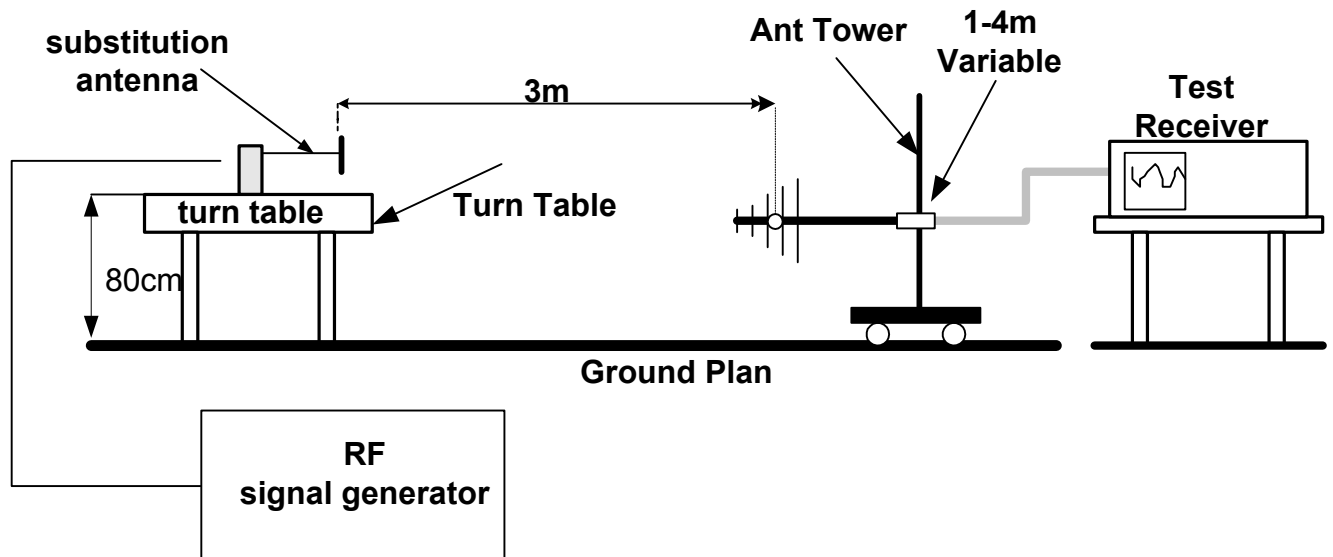


Figure 13e2 Test setup of substitution peak power density measurement

8 Frequency stability test According to 90.213

- a. Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following Table.

(1) Minimum Frequency Stability shall be 2.5 parts per million (ppm)

E.U.T: DEKO2489 S/N: 002
 Test Method: ANSI 63.4
 Date: 29/1/07

Relative Humidity: 26%
 Ambient Temperature: 22c
 Air Pressure: 1047hpa
 Test Setup: Figure 14.e

Testing Engineer: Shimon Kozliner

Date 29.1.07

- b. **Test Results Summary & Conclusions**
 The device complies with the requirement

- c. **Limits of frequency stability**
 The test unit shall meet the limits of Table 14.b

Table 14.b Limits For frequency stability

Transmit Freq. (MHz)	Limit ppm	At ext . Temperture			At ext oper Voltage	
		25°	-20°	+55°	100	240
815	2.5	815,000000	F0±2.5ppm	F0±2.5ppm	F0±2.5ppm	F0±2.5ppm
898.5	2.5	898,500000	F0±2.5ppm	F0±2.5ppm	F0±2.5ppm	F0±2.5ppm
860	2.5	860,000000	F0±2.5ppm	F0±2.5ppm	F0±2.5ppm	F0±2.5ppm
937.5	2.5	937,500000	F0±2.5ppm	F0±2.5ppm	F0±2.5ppm	F0±2.5ppm

d. Test Results

Test results for frequency stability are in compliance with the requirements see table 14c below

Table 14.c Test results For frequency stability

Transmit Freq, (MHz)	Limit ppm	At Temperature			At ext oper Voltage	
			-20°	+55°	100	240
815	2.5	814,999990	815,000094	815,000151	814,999990	814,999990
898.5	2.5	898,499990	898,500114	898,500160	898,499990	898,499990
860	2.5	859,999997	860,000099	860,000164	859,999997	859,999997
937.5	2.5	937,499994	937,500090	937,500206	937,499994	937,499994

e. Test Instrumentation and Equipment

Table 14.d Test Instrumentation and Equipment

Item	Model	Manufacturer	Next Date Calibration
Spectrum Analyzer	8593E	HP	31.01.08

f. Test Procedure

Test Procedure for frequency stability measurement

- (1) The EUT was setup as shown in figure 14e
- (2) The carrier frequency was measured after the EUT was powered on and than after 10 minutes

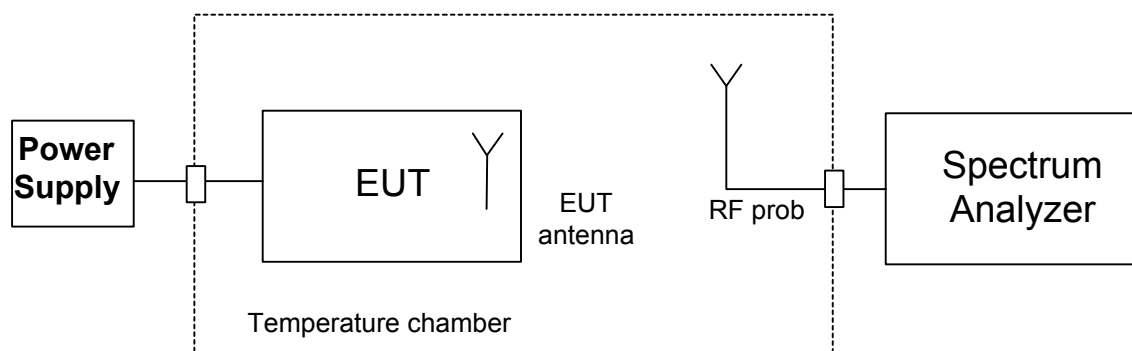


Figure 14e Test setup

9 RF Occupied Bandwidth

- a. **Using an RBW of 300Hz or 1% of the emission bandwidth, The spectral shape of the output should look similar to the input for all modulations.**

E.U.T: DEKO2489 S/N: 002
 Test Method: ANSI 63.4
 Date: 9.1.07

Relative Humidity: 26%
 Ambient Temperature: 22c
 Air Pressure: 1047hpa
 Test Setup: Figure 14.e

Testing Engineer: Shimon Kozliner

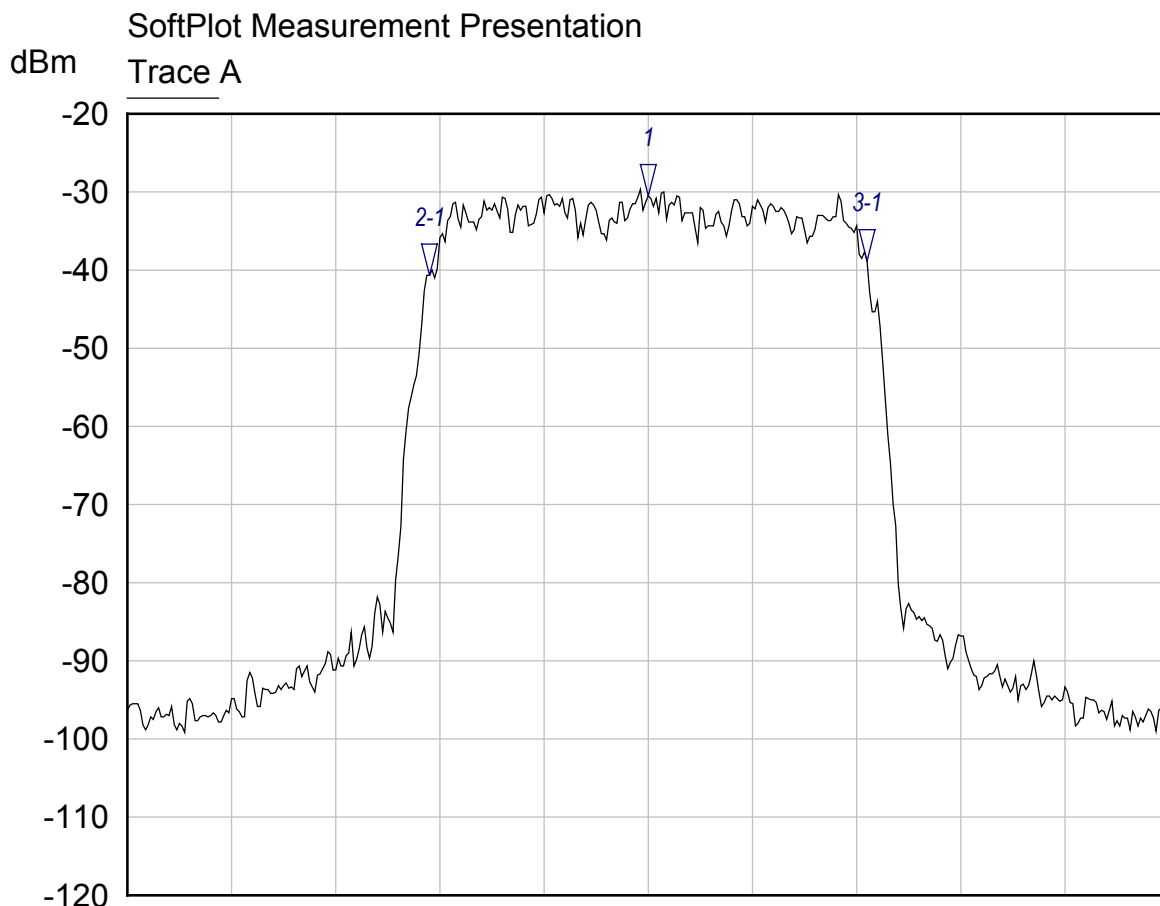
Date 9.1.07

b. Test Results Summary & Conclusions

- (1) **Test Results:** Complies (see attached plots).

Table 10.b Occupied BW Uplink/downlink

Uplink/ Downlink	Transmit Freq, MHz	Measured occupied BW		Pass/fail	Plot no
		Input (kHz)	Output (kHz)		
Uplink	815.000	20.00	20.00	Pass	OccpBW-1
Uplink	898.525	20.00	20.00	Pass	OccpBW-2
Downlink	859.025	20.00	20.00	Pass	OccpBW-3
Downlink	937.525	20.00	20.00	Pass	OccpBW-4



Occupied Bandwidth UpLink (Input f=815MHz)

Start: 814.9750 MHz

Stop: 815.0250 MHz

Res BW: 300 Hz

Vid BW: 1 kHz

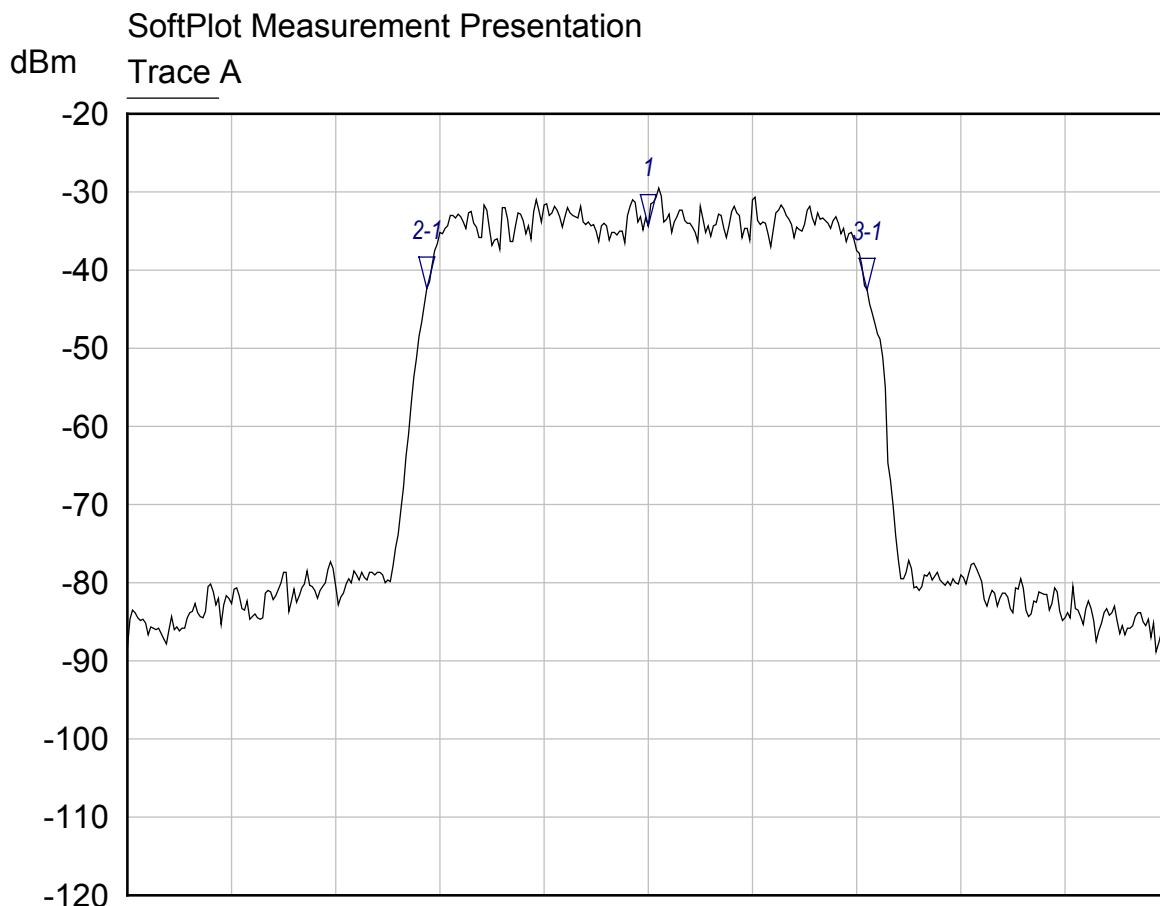
Sweep: 20.00 s

1/9/2007 5:48:04 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	815.0000 MHz	-30.50 dBm	
2-1 ▽	Trace A	-10.5000 kHz	-10.21 dB	
3-1 ▽	Trace A	10.5000 kHz	-8.34 dB	

OccpBW-1



Occupied Bandwidth UpLink (Output f=815MHz)

Start: 814.9750 MHz

Stop: 815.0250 MHz

Res BW: 300 Hz

Vid BW: 1 kHz

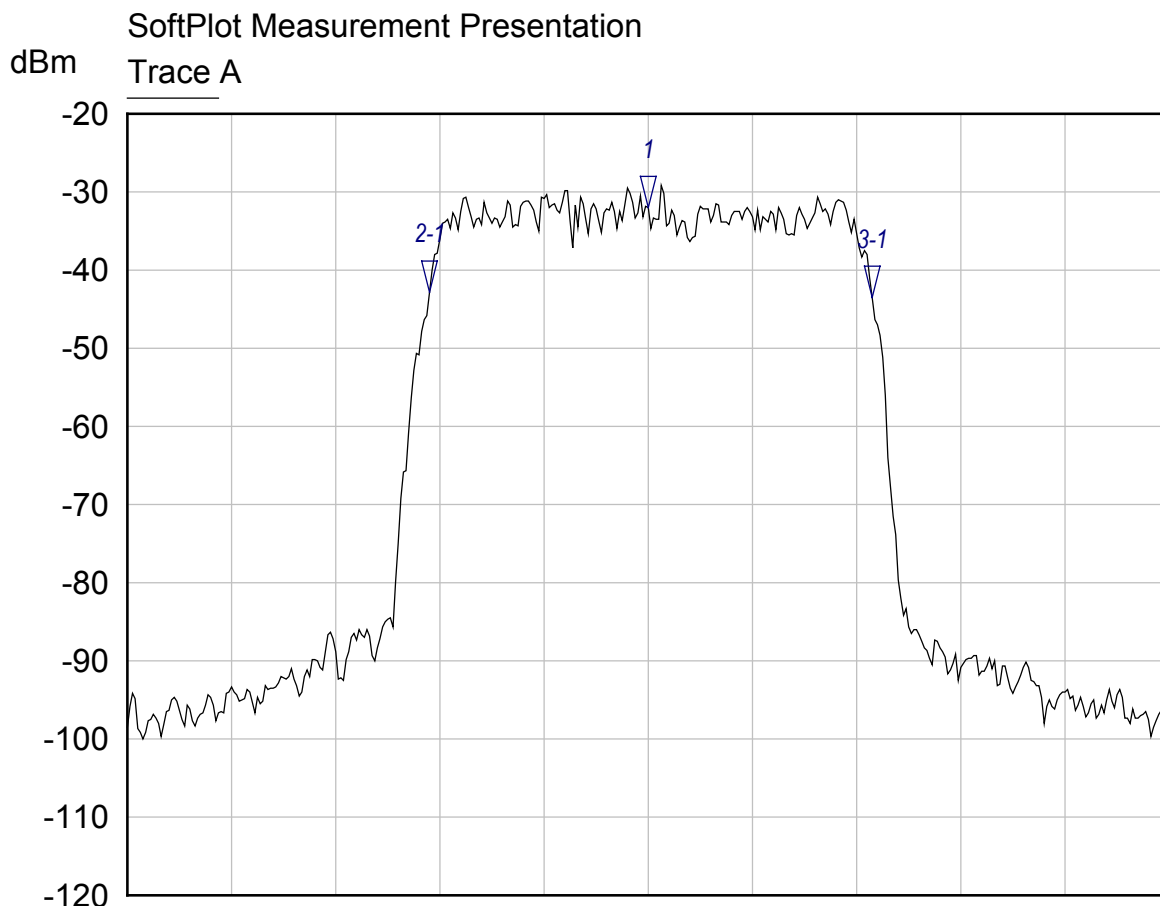
Sweep: 20.00 s

1/9/2007 5:50:19 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	815.0000 MHz	-34.25 dBm	
2-1 ▽	Trace A	-10.6250 kHz	-8.03 dB	
3-1 ▽	Trace A	10.5000 kHz	-8.28 dB	

OccpBW-2



Occupied Bandwidth UpLink (Input f=898.5MHz)

Start: 898.4750 MHz

Stop: 898.5250 MHz

Res BW: 300 Hz

Vid BW: 1 kHz

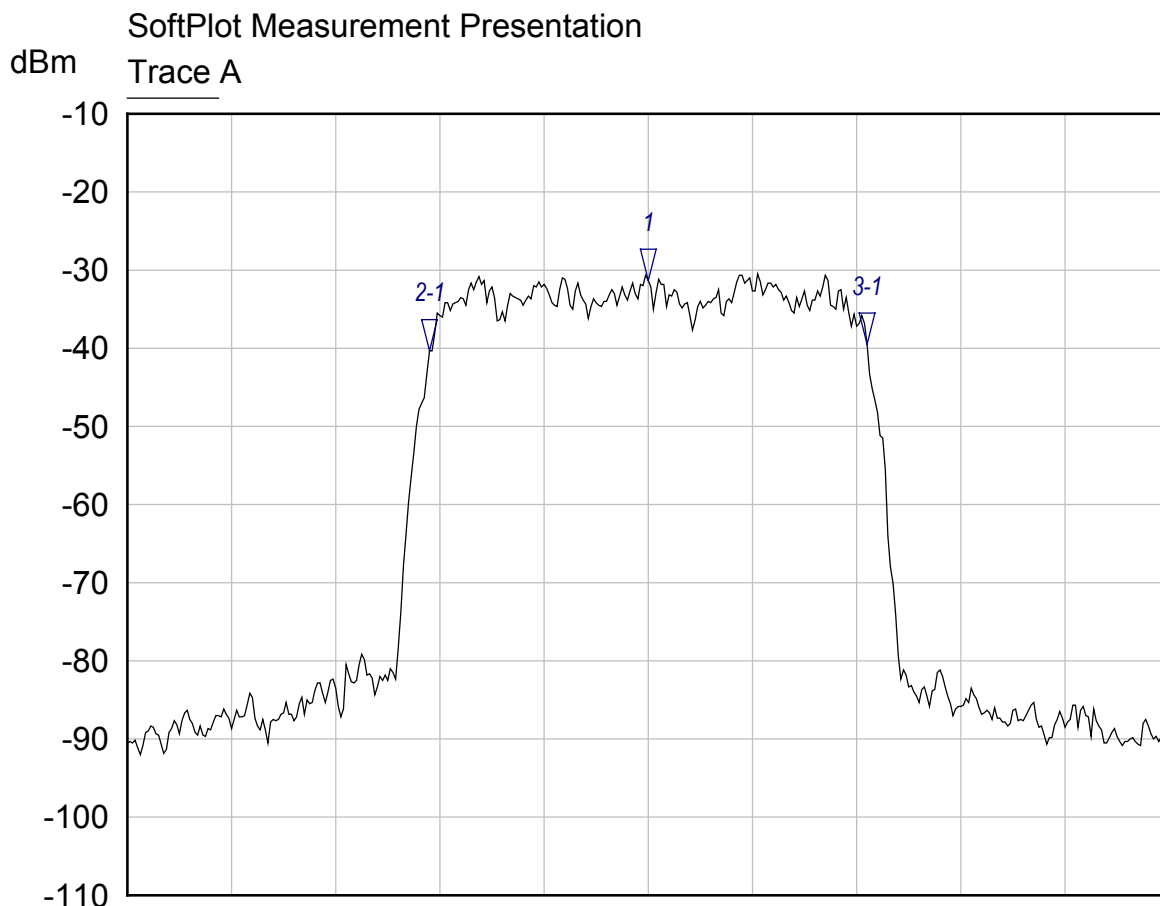
Sweep: 20.00 s

1/9/2007 5:52:38 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	898.5000 MHz	-32.01 dBm	
2-1 ▽	Trace A	-10.5000 kHz	-10.74 dB	
3-1 ▽	Trace A	10.7500 kHz	-11.41 dB	

OccpBW-3



Occupied Bandwidth UpLink (Output f=898.5MHz)

Start: 898.4750 MHz

Stop: 898.5250 MHz

Res BW: 300 Hz

Vid BW: 1 kHz

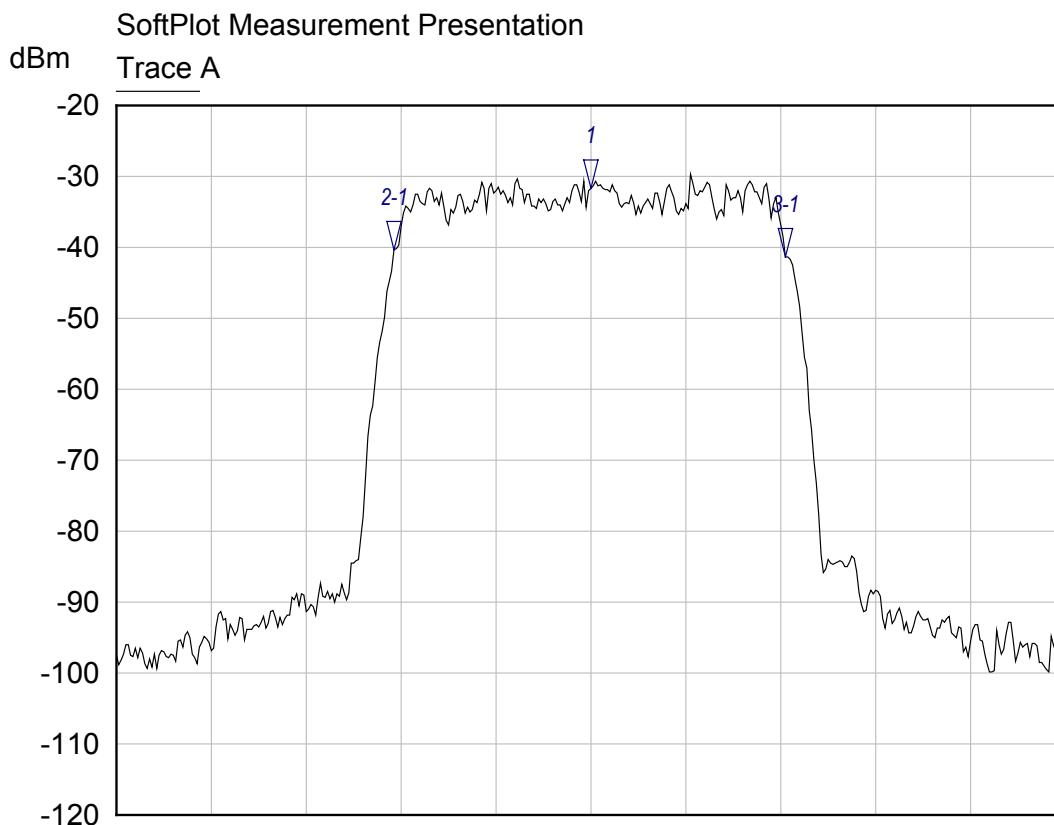
Sweep: 20.00 s

1/9/2007 5:54:29 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	898.5000 MHz	-31.32 dBm	
2-1 ▽	Trace A	-10.5000 kHz	-8.98 dB	
3-1 ▽	Trace A	10.5000 kHz	-8.10 dB	

OccpBW-4



Occupied Bandwidth DownLink (f=859MHz)

Start: 858.9750 MHz

Stop: 859.0250 MHz

Res BW: 300 Hz

Vid BW: 1 kHz

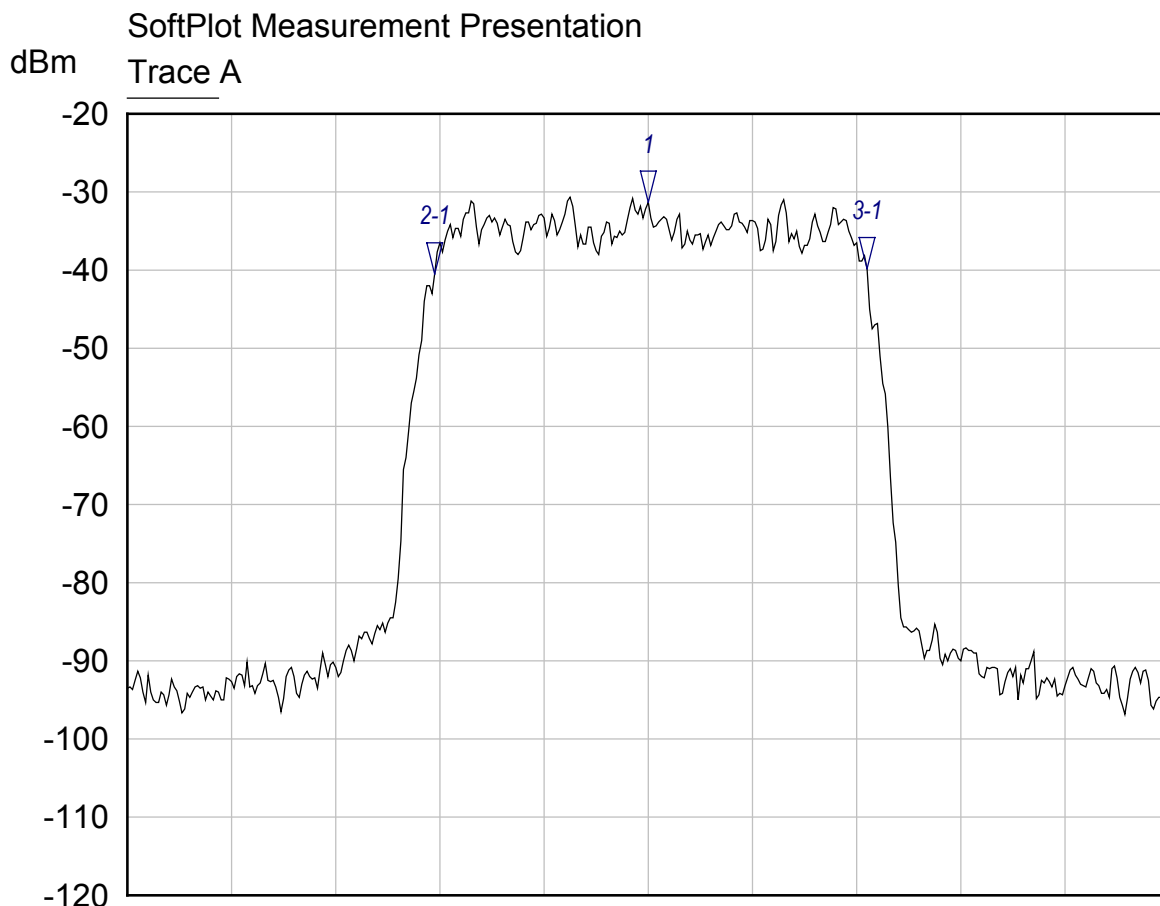
Sweep: 20.00 s

1/9/2007 5:17:11 PM

E7405A

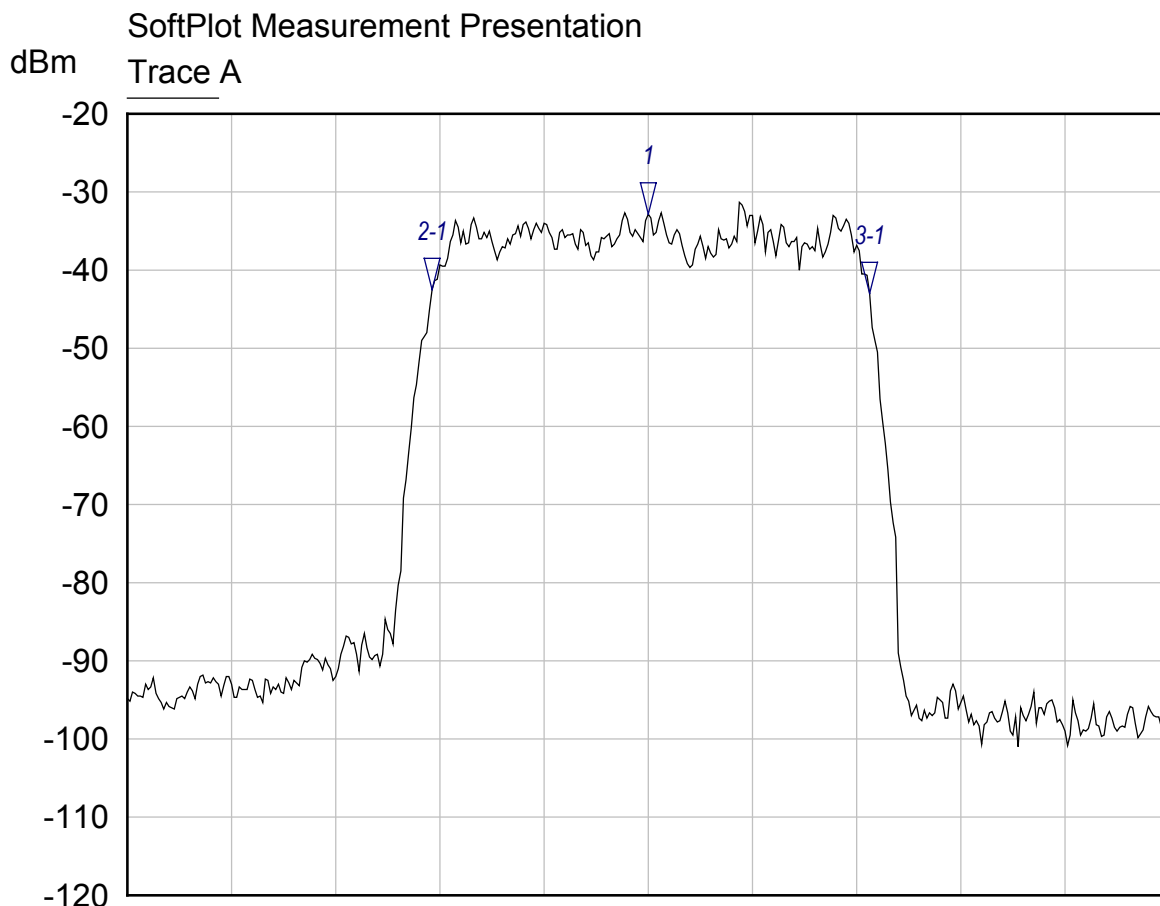
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	859.0000 MHz	-31.64 dBm	
2-1 ▽	Trace A	-10.3750 kHz	-8.71 dB	
3-1 ▽	Trace A	10.2500 kHz	-9.66 dB	

OccpBW-5



Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	859.0000 MHz	-31.33 dBm	
2-1 ▽	Trace A	-10.2500 kHz	-9.16 dB	
3-1 ▽	Trace A	10.5000 kHz	-8.58 dB	

OccpBW-6



Occupied Bandwidth DownLink (Input f=937.5MHz)

Start: 937.4750 MHz

Stop: 937.5250 MHz

Res BW: 300 Hz

Vid BW: 1 kHz

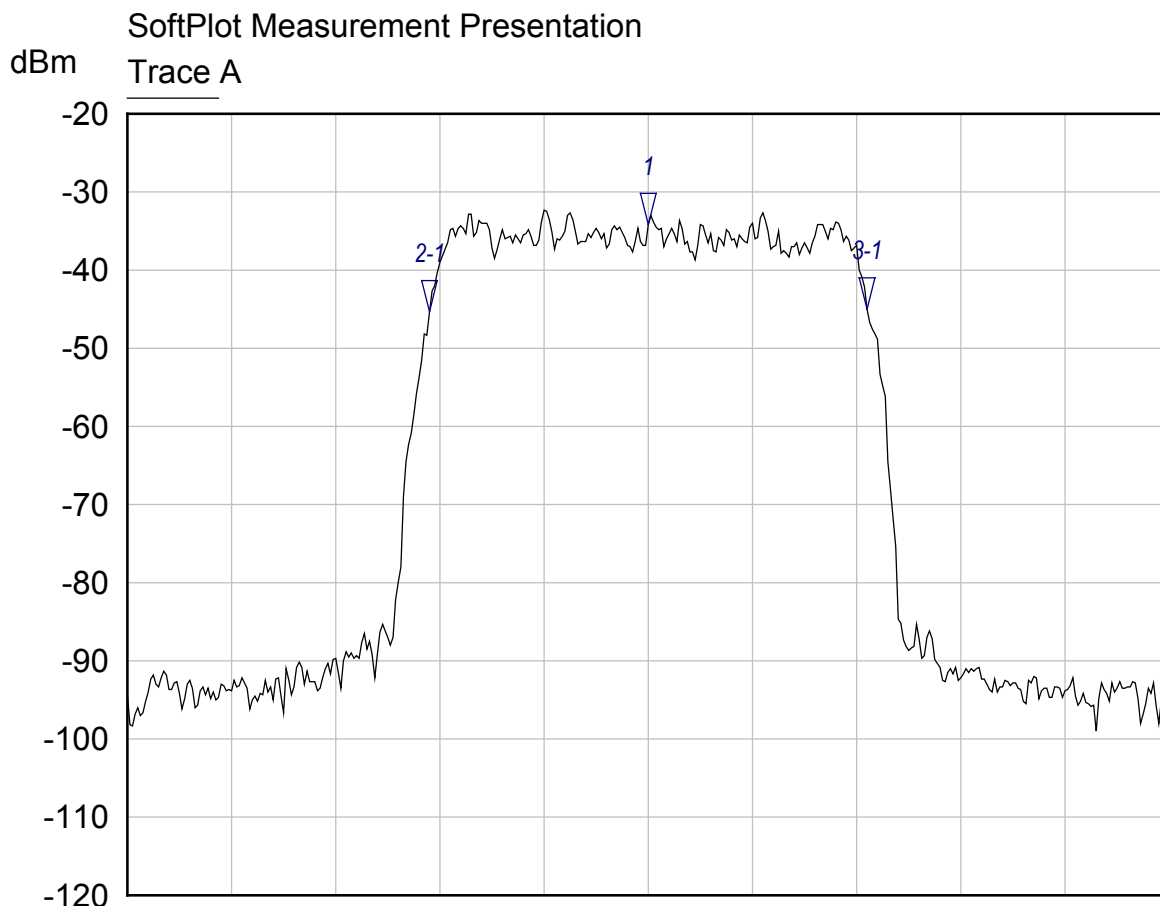
Sweep: 20.00 s

1/9/2007 5:40:52 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	937.5000 MHz	-32.84 dBm	
2-1 ▽	Trace A	-10.3750 kHz	-9.69 dB	
3-1 ▽	Trace A	10.6250 kHz	-10.14 dB	

OccpBW-7



Occupied Bandwidth DownLink (Output f=937.5MHz)

Start: 937.4750 MHz

Stop: 937.5250 MHz

Res BW: 300 Hz

Vid BW: 1 kHz

Sweep: 20.00 s

1/9/2007 5:44:49 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	937.5000 MHz	-34.13 dBm	
2-1 ▽	Trace A	-10.5000 kHz	-11.28 dB	
3-1 ▽	Trace A	10.5000 kHz	-10.85 dB	

OccpBW-8

10 Emission limit according 90.669 requirements

- a. The requirement is to show that the power of any Emission adjacent to non MTA frequencies shall be attenuated by more than $43+10\log(P)$

Test result table

Channels	Band Freq. (MHz)	Transmit Freq (MHz)	Limit (dbm)	Freq. Range (MHz)	Plot No.	Pass/Fail
Uplink	896 - 901	896	-20	0.009 – 30	Rad Spur Em/ 37	Pass
				30 -1,000	Rad Spur Em/ 38	Pass
				1,000 – 10,000	Rad Spur Em/ 39	Pass
		898.5		0.009 – 30	Rad Spur Em/ 40	Pass
				30 -1,000	Rad Spur Em/ 41	Pass
				1,000 – 10,000	Rad Spur Em/ 42	Pass
		901		0.009 – 30	Rad Spur Em/ 43	Pass
				30 -1,000	Rad Spur Em/ 44	Pass
				1,000 – 10,000	Rad Spur Em/ 45	Pass
Downlink	935 - 940	935	-20	0.009 – 30	Rad Spur Em/ 46	Pass
				30 -1,000	Rad Spur Em/ 47	Pass
				1,000 – 10,000	Rad Spur Em/ 48	Pass
		937.5		0.009 – 30	Rad Spur Em/ 49	Pass
				30 -1,000	Rad Spur Em/ 50	Pass
				1,000 – 10,000	Rad Spur Em/ 51	Pass
		940		0.009 – 30	Rad Spur Em/ 52	Pass
				30 -1,000	Rad Spur Em/ 53	Pass
				1,000 – 10,000	Rad Spur Em/ 54	Pass

11 RF Out of Band Rejection 90.691

- a. A test was performed to measure the out off band rejection of operating channel at 806-851MHz and at 860 MHz .

E.U.T: DEKO2489 S/N: 002
 Test Method: ANSI 63.4
 Date:

Relative Humidity: 26%
 Ambient Temperature: 22c
 Air Pressure: 1047hpa
 Test Setup: Figure 14.e

Testing Engineer: Shimon Kozliner

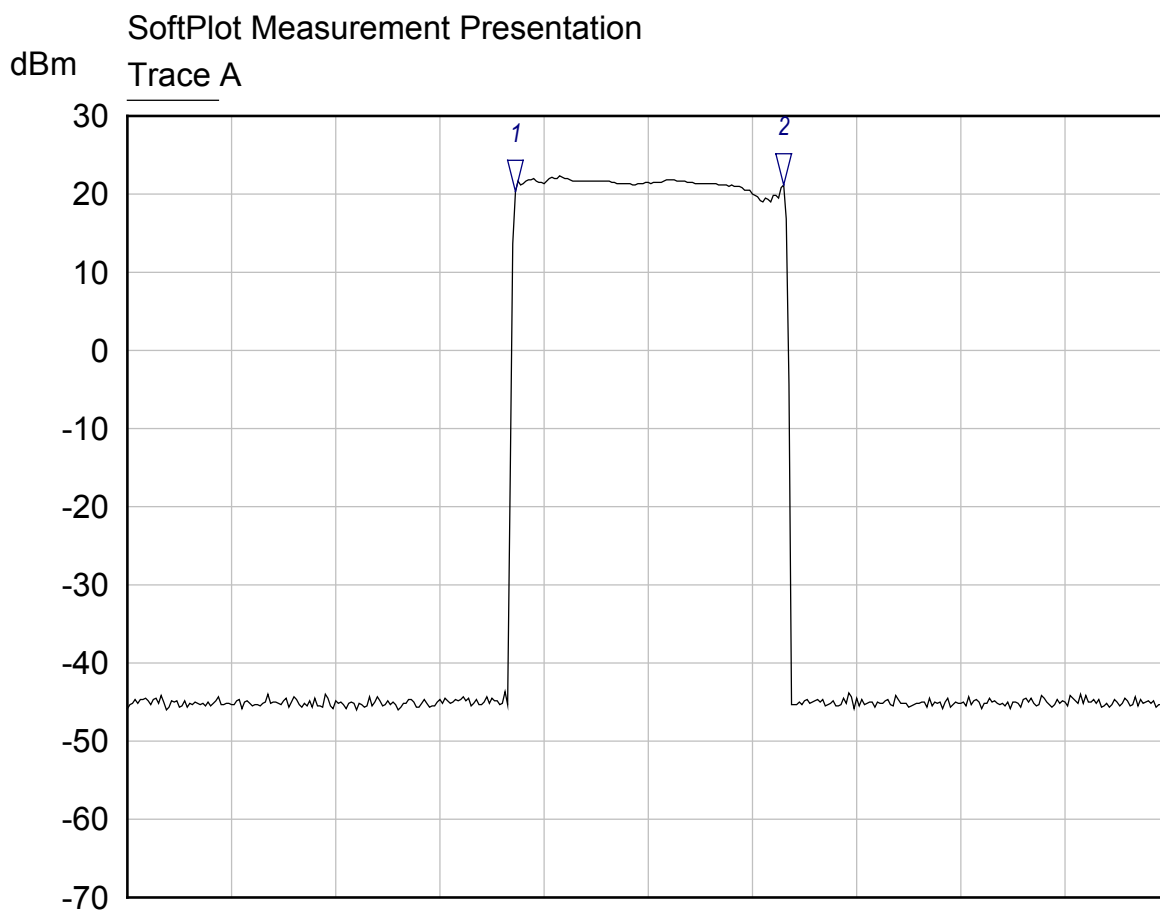
Date 9.1.07

b. Test Results Summary & Conclusions

- (1) The out of band rejection is in compliance with the requirement . $50+10\log(P)$ dbc .
- (2) see attached plots

Table 10.b out of band rejection Uplink/downlink

Uplink/ Downlink	Transmit MHz	Measured OUT OB Rejection		Pass/fail	Plot no
		Output power dBm	Out of band (dBC)		
Uplink	806.075	20.41	65.5	Pass	Oob-1
Uplink	824.100	21.11	66.1	Pass	Oob-1
Downlink	857.550	21.00	59.8	Pass	Oob-2
Downlink	862.500	21.00	58.8	Pass	Oob-2



Out Of Band Rejection(815MHz)

Start: 780.0000 MHz

Stop: 850.0000 MHz

Res BW: 30 kHz

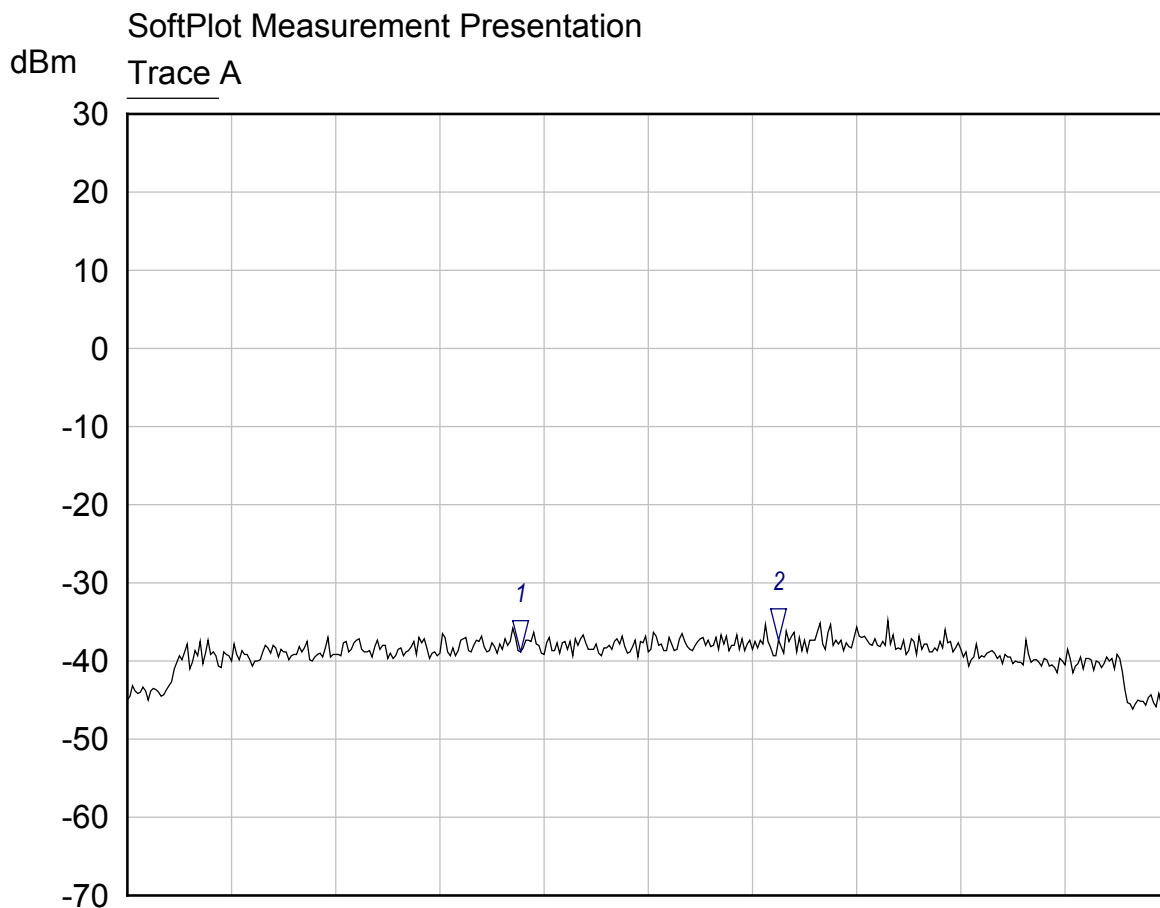
Vid BW: 30 kHz

Sweep: 100.21 ms

1/9/2007 2:06:25 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	806.0750 MHz	20.41 dBm	
2 ▽	Trace A	824.1000 MHz	21.11 dBm	



Out Of Band Rejection(860MHz)

Start: 850.0000 MHz

Stop: 870.0000 MHz

Res BW: 10 kHz

Vid BW: 30 kHz

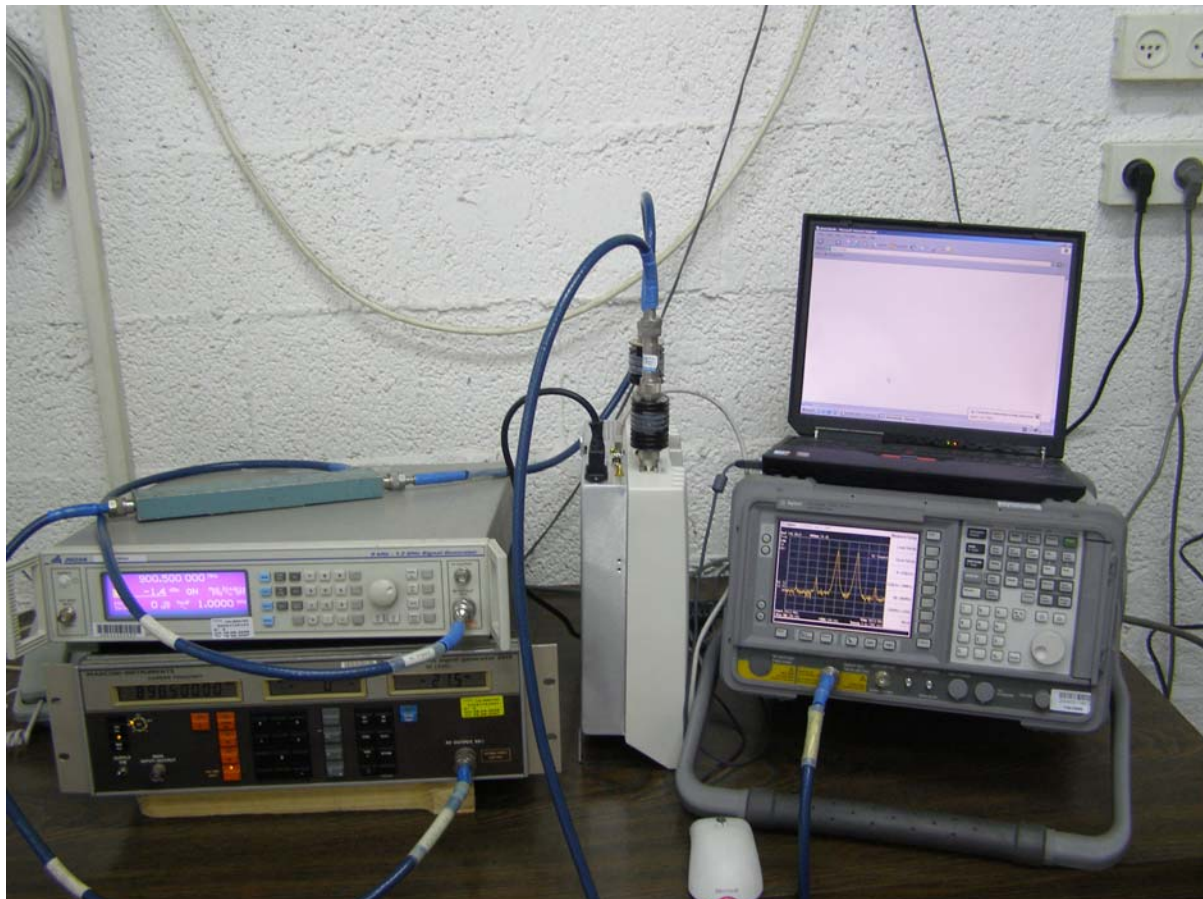
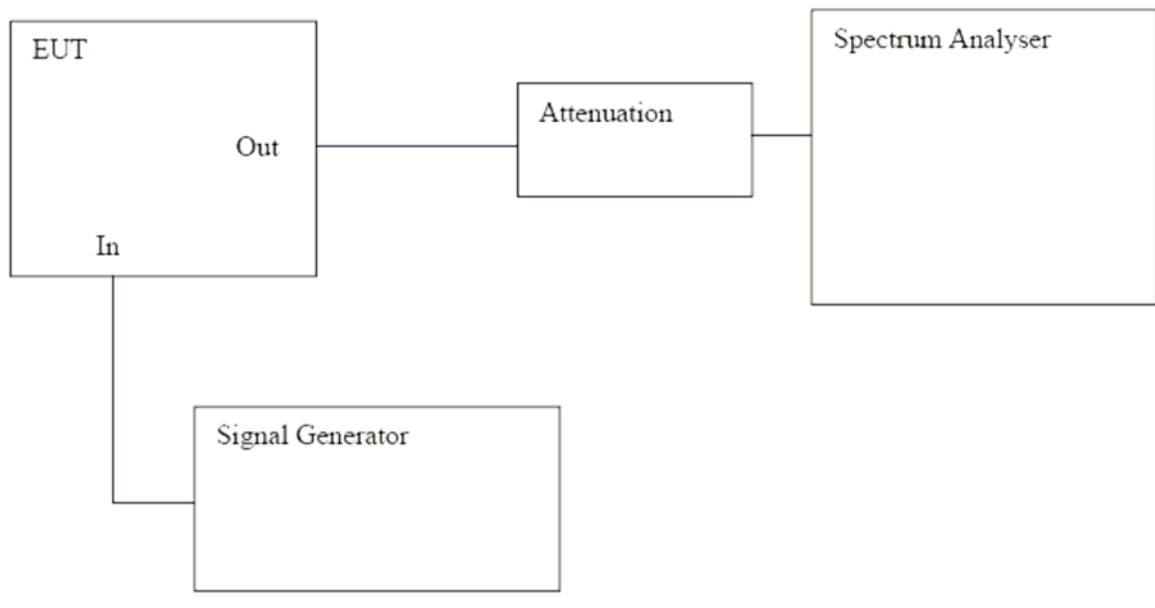
Sweep: 207.20 ms

1/9/2007 2:13:52 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	857.5500 MHz	-38.79 dBm	
2 ▽	Trace A	862.5000 MHz	-37.26 dBm	

Conducted Emissions, Output power, Occupied Bandwidth and Out of Band Rejection



12 CORRECTION FACTORS

Correction Factor for **line impedance stabilization network** model DC-AC-20A-01

Frequency (KHz)	Correction Factor (db)
10	4.4
20	1.6
30	0.8
40	0.4
50	0.3
60	0.25
70	0.15
100	0.1
200	0

DOUBLE RIDGE HORN Model 3105 S/N:002-C3-3D 2052 Antenna Factor

Frequency (MHz)	Ant. Factor (db/m)
1000	24.4
2000	26.2
3000	30
4000	32.6
5000	33.8
6000	34.9
7000	36.2
8000	36.9
9000	37.8
10000	38.4
11000	39.1
12000	40.1
13000	42
14000	40.6
15000	39.3
16000	40.3

Antenna Factor for broadband antenna model BTA-L S/N:002-C3-3D 980045L

Frequency (KHz)	Ant. Factor (db/m)	Frequency (KHz)	
30	19.05	300	14.35
32	19.13	310	14.28
34	18.74	320	14.43
36	18.03	330	14.13
38	16.61	340	14.48
40	15.44	350	14.89
45	13.66	360	15.12
50	11.52	370	15.70
55	10.04	380	15.78
60	7.68	390	16.22
65	6.11	400	16,45
70	5.47	425	16.99
75	5.98	450	17.59
80	6.86	475	17.28
85	7.20	500	17.69
90	7.47	525	18.91
95	7.23	550	19.06
100	7.20	575	18.20
105	7.30	600	18.87
110	7.37	625	18.81
115	7.02	650	19.64
120	6.82	675	19.92
125	7.05	700	20.66
130	7.83	725	21.08
135	9.61	750	21.53
140	7.93	775	22.39
145	8.03	800	22.66
150	8.29	825	22.87
160	8.72	850	22.65
170	9.18	875	23.12
180	9.05	900	23.70
190	9.80	925	23.40
200	10.61	950	23.43
210	10.34	975	23.30
220	11.21	1000	24.02
230	11.69		
240	11.62		
250	11.85		

Frequency (KHz)	Ant. Factor (db/m)	Frequency (KHz)	Ant. Factor (db/m)
260	12.45		
270	13.16		
280	13.48		
290	13.74		

13 Abbreviations and Acronyms

The following abbreviations and acronyms are applicable in this document

BW Bandwidth

Db Decibel

EMI Electromagnetic interference

E.U.T Equipment under test

LISN Line impedance stabilization network

RBW Resolution band width

S/N Serial number

VBW Video bandwidth