

ANNEX A: Test Result

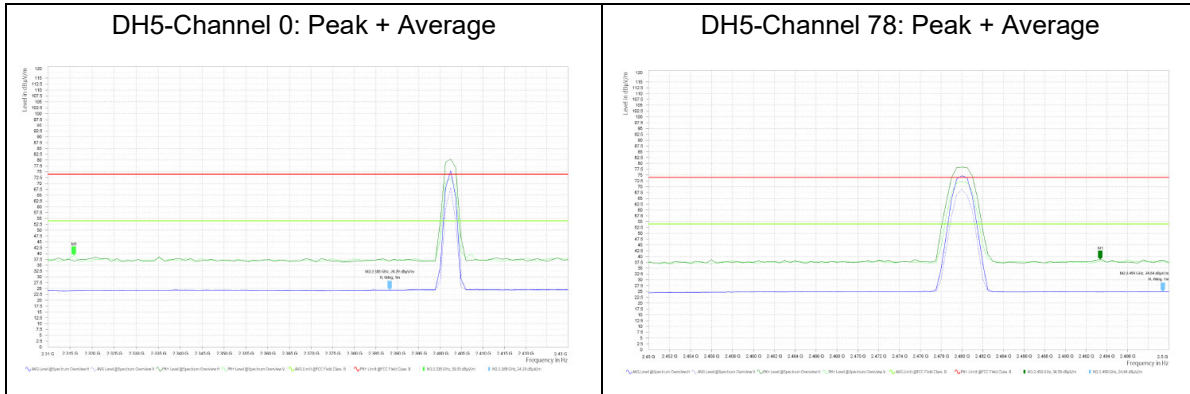
The radiated emission was measured in the following position: EUT horizontal position (X, Y axis). The worst emission was found in horizontal position (X axis) and the loop antenna is coplanar, the others are vertical and horizontal. and the worst case was recorded.

1. Unwanted Emission

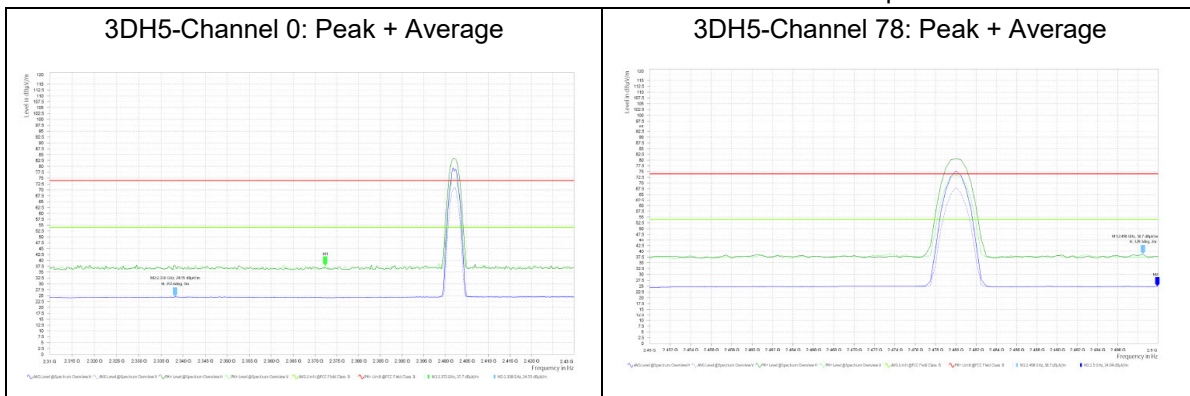
1.1. Bluetooth

The following graphs display the maximum values of horizontal and vertical by software. Blue trace uses the peak detection, Green trace uses the average detection.

The signal beyond the limit is carrier.



The bandage was performed in all EDR mode (2DH5 and 3DH5), 3DH5 was selected as the worse condition. The test data of the worst-case condition was recorded in this report.



Result of RE

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier. The Radiates Emission from 9kHz to 30MHz and 18GHz to 26.5GHz are more than 20dB below the limit are not reported.

Remark:

1. **Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)**
2. **Margin = Limit – Quasi-Peak/ MAX Peak/ Average**
3. **The following graphs display the maximum values of coaxial and coplanar for 9k-30MHz; horizontal and vertical for above 30MHz by software.**
4. **For below 1GHz**

 QP Level @Spectrum Overview H
  QP Level @Spectrum Overview V
  QP Level @Final Results
  QP Limit

For above 1GHz

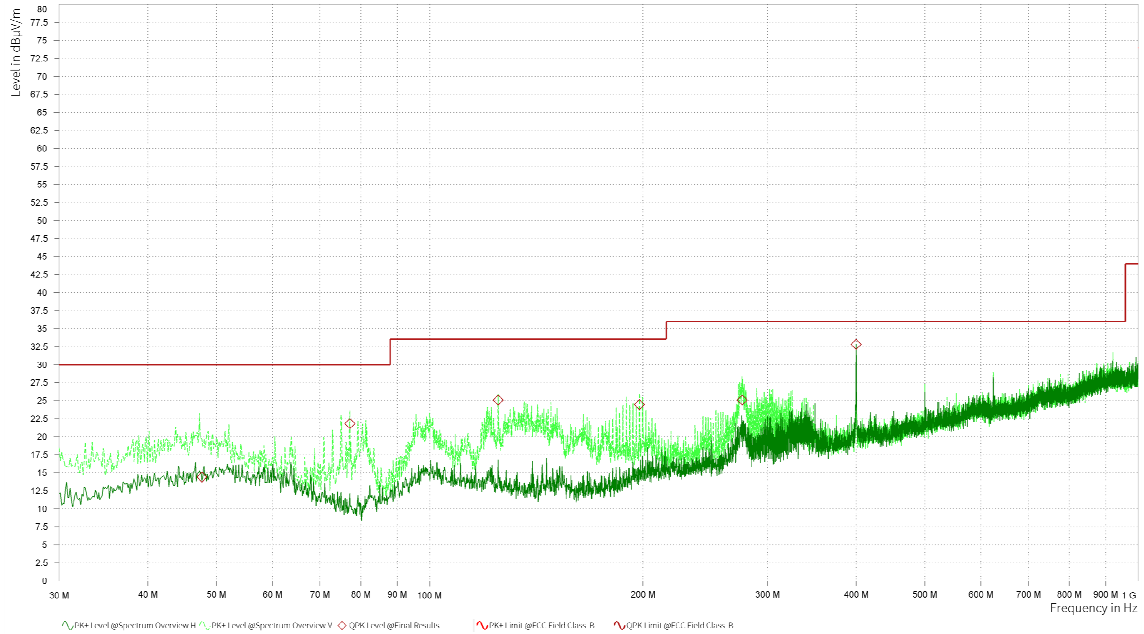
 PK Level @Spectrum Overview H
  PK Level @Spectrum Overview V
  PK Level @Final Results
  PK Limit

 AVG Level @Spectrum Overview H
  AVG Level @Spectrum Overview V
  AVG Level @Final Results
  AVG Limit

Continuous TX mode:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels. The test data of the worst-case condition (**DH5-Channel 0**) was recorded in this report.

Spectrum Overview H/V

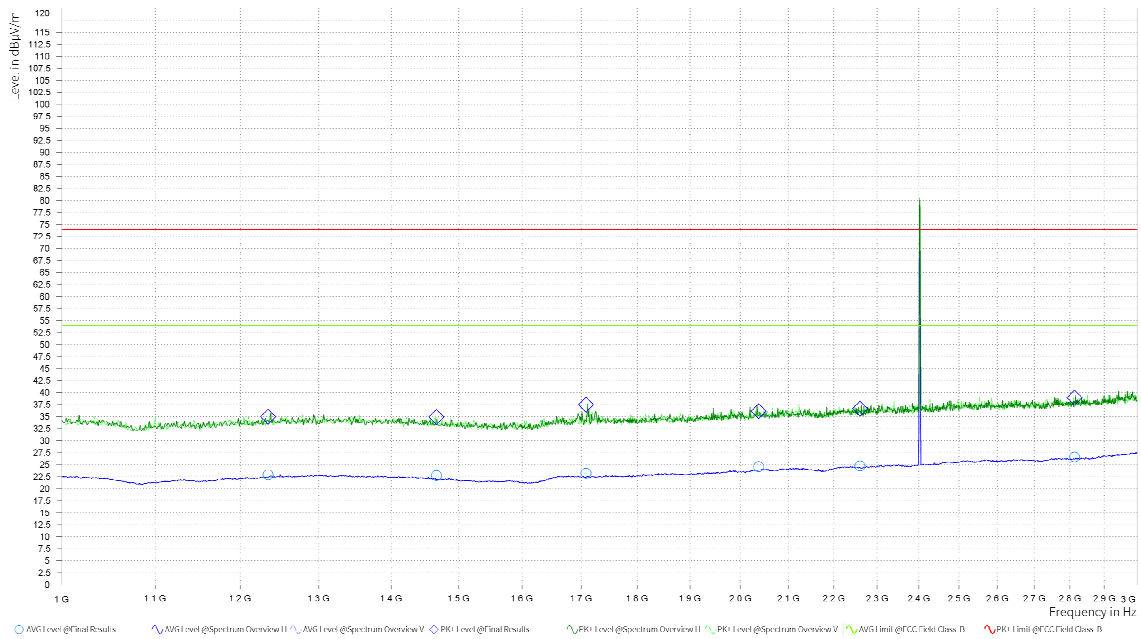


Radiates Emission from 30MHz to 1GHz

Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Meas. Time [s]
47.697	14.41	30.00	15.59	-8.58	V	292.5	1.00	120.000	1.000
77.184	21.81	30.00	8.19	-13.85	V	82	2.00	120.000	1.000
125.001	25.09	33.50	8.41	-11.95	V	30.4	1.78	120.000	1.000
197.815	24.45	33.50	9.05	-9.94	V	256.9	1.03	120.000	1.000
276.123	25.06	36.00	10.94	-7.95	V	348.1	1.08	120.000	1.000
399.967	32.82	36.00	3.18	-4.60	H	174	1.78	120.000	1.000

DH5-Channel 0

Spectrum Overview H/V

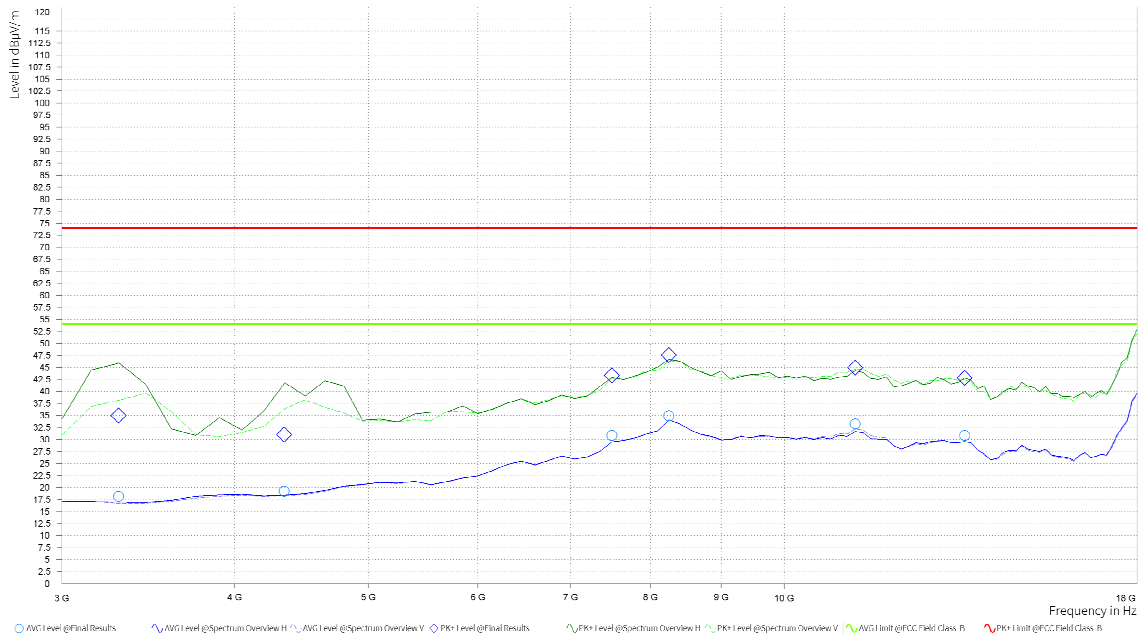


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
1,234.508	34.98	74.00	39.02	22.89	54.00	31.11	-11.96	H	293	1.00	1.000
1,466.082	34.93	74.00	39.07	22.76	54.00	31.24	-11.87	V	259.5	1.00	1.000
1,708.107	37.45	74.00	36.55	23.19	54.00	30.81	-11.50	H	14.4	1.00	1.000
2,037.888	36.12	74.00	37.88	24.60	54.00	29.40	-8.95	H	274.8	1.00	1.000
2,260.272	36.60	74.00	37.40	24.73	54.00	29.27	-7.89	H	0	1.00	1.000
2,813.764	38.91	74.00	35.09	26.62	54.00	27.38	-4.66	H	345.6	2.00	1.000

Spectrum Overview H/V

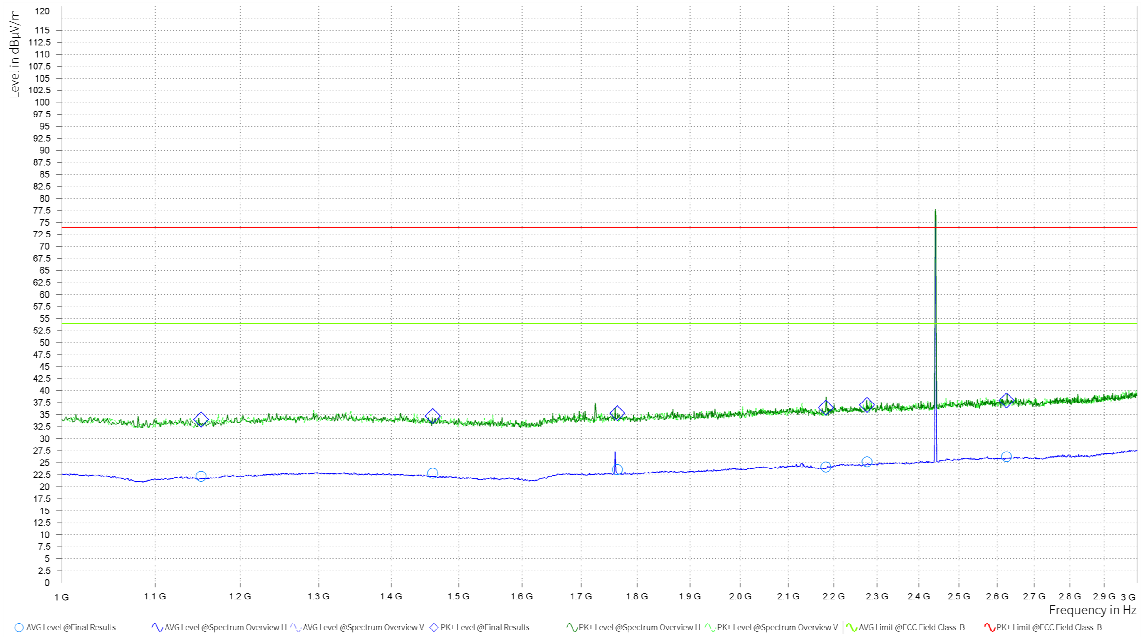


Radiates Emission from 3GHz to 18GHz

Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
3,296.954	34.95	74.00	39.05	18.13	54.00	35.87	-13.48	H	340.7	1.00	1.000
4,345.360	30.98	74.00	43.02	19.25	54.00	34.75	-11.46	H	333.8	1.00	1.000
7,500.214	43.29	74.00	30.71	30.84	54.00	23.16	-2.76	H	83.1	1.00	1.000
8,245.699	47.52	74.00	26.48	34.90	54.00	19.10	1.92	H	320.5	1.00	1.000
11,249.526	44.90	74.00	29.10	33.24	54.00	20.76	0.49	V	117.3	2.00	1.000
13,498.663	42.76	74.00	31.24	30.85	54.00	23.15	1.41	H	22.1	1.00	1.000

DH5-Channel 39

Spectrum Overview H/V

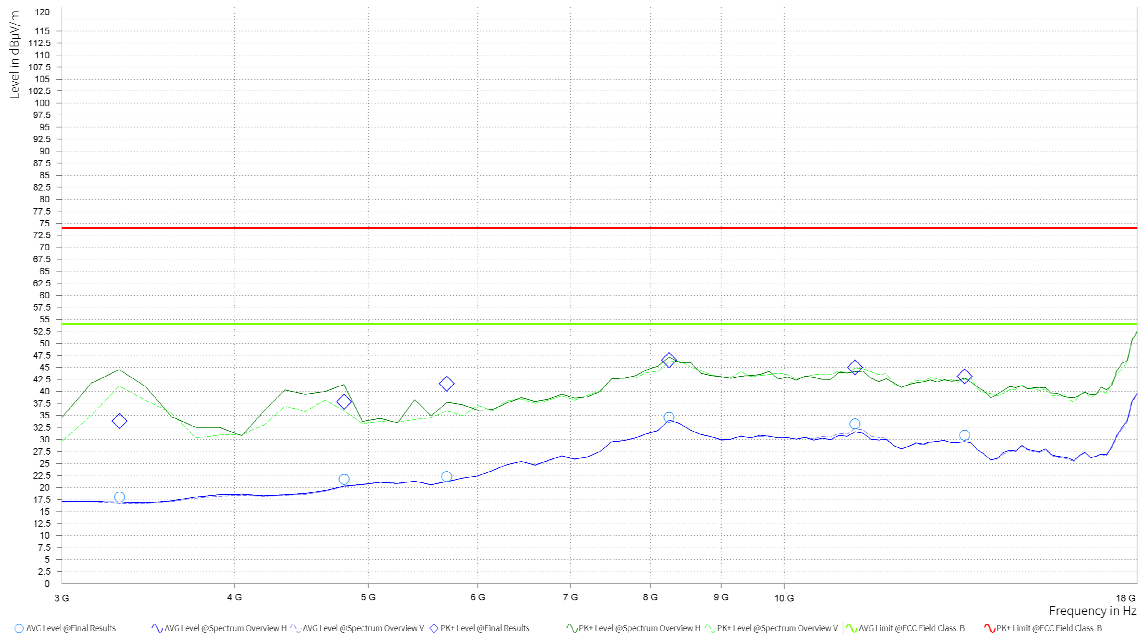


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
1,152.833	33.95	74.00	40.05	22.20	54.00	31.80	-12.32	H	267.2	1.00	1.000
1,460.668	34.67	74.00	39.33	22.81	54.00	31.19	-11.86	H	17.7	1.00	1.000
1,763.775	35.26	74.00	38.74	23.56	54.00	30.44	-11.34	H	323.7	1.00	1.000
2,182.686	36.42	74.00	37.58	24.13	54.00	29.87	-8.16	H	17.7	1.00	1.000
2,276.457	37.01	74.00	36.99	25.18	54.00	28.82	-7.71	H	357.5	1.00	1.000
2,624.704	37.91	74.00	36.09	26.26	54.00	27.74	-5.67	H	43	1.00	1.000

Spectrum Overview H/V

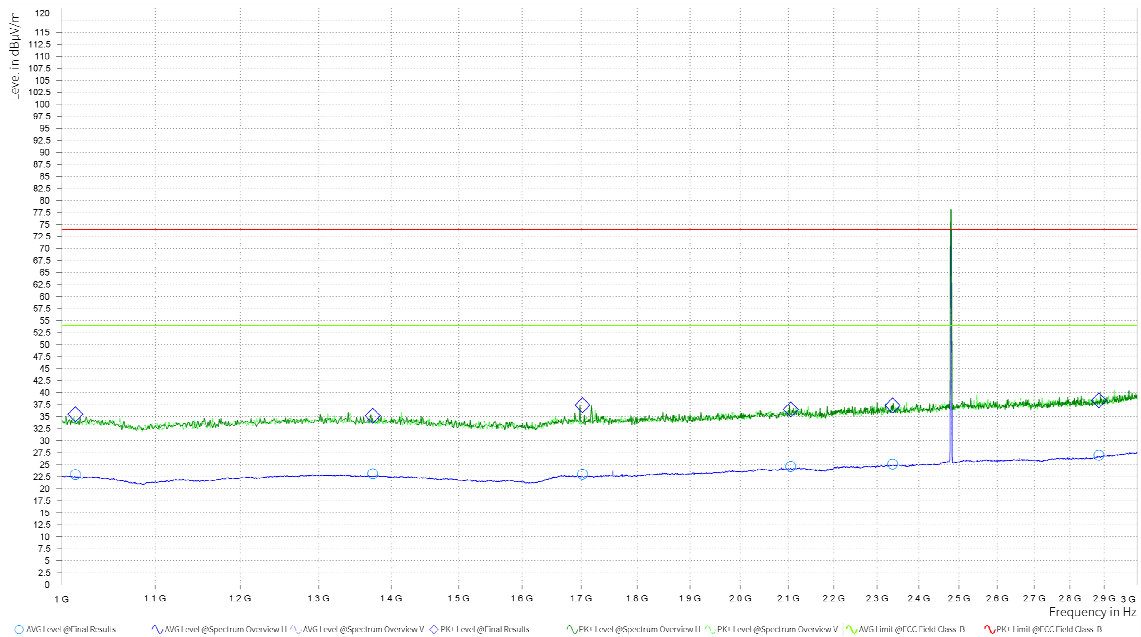


Radiates Emission from 3GHz to 18GHz

Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
3,302.088	33.79	74.00	40.21	17.98	54.00	36.02	-13.48	H	312.8	1.00	1.000
4,802.196	37.83	74.00	36.17	21.73	54.00	32.27	-9.84	H	2.4	1.00	1.000
5,695.840	41.56	74.00	32.44	22.30	54.00	31.70	-8.33	H	345.6	2.00	1.000
8,249.735	46.48	74.00	27.52	34.61	54.00	19.39	1.95	H	175.9	1.00	1.000
11,245.738	44.98	74.00	29.02	33.23	54.00	20.77	0.49	V	313.3	2.00	1.000
13,499.584	43.11	74.00	30.89	30.86	54.00	23.14	1.41	H	244.5	1.00	1.000

DH5-Channel 78

Spectrum Overview H/V



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
1,014.031	35.46	74.00	38.54	22.94	54.00	31.06	-12.65	H	292.3	1.00	1.000
1,373.721	35.16	74.00	38.84	23.14	54.00	30.86	-11.92	H	305.2	2.00	1.000
1,702.053	37.36	74.00	36.64	23.03	54.00	30.97	-11.51	H	19.1	1.00	1.000
2,105.777	36.45	74.00	37.55	24.61	54.00	29.39	-8.72	H	100.4	1.00	1.000
2,336.534	37.32	74.00	36.68	25.16	54.00	28.84	-7.12	H	57.3	1.00	1.000
2,884.594	38.34	74.00	35.66	26.98	54.00	27.02	-4.32	H	286.2	1.00	1.000