

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121919\
 Data File : VU036294.D
 Acq On : 19 Dec 2019 19:45
 Operator : JC/MD
 Sample : K6282-13
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDW9

Quant Time: Dec 20 05:03:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Dec 20 03:13:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	271121	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	294017	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	120876	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	109996	4.61	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.20%
7) Chloroethane-d5	1.93	69	99161	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.60%
11) 1,1-Dichloroethene-d2	2.60	63	119829	3.48	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.60%
20) 2-Butanone-d5	4.68	46	187963	42.02	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	84.04%
24) Chloroform-d	5.11	84	162726	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.80%
26) 1,2-Dichloroethane-d4	5.75	65	89323	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.60%
32) Benzene-d6	5.77	84	312652	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.60%
36) 1,2-Dichloropropane-d6	6.73	67	101558	4.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.20%
41) Toluene-d8	7.93	98	254751	3.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.20%
43) trans-1,3-Dichloropropene-	8.21	79	40867	4.27	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.40%
46) 2-Hexanone-d5	8.67	63	169596	46.29	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.58%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	90166	4.23	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	84.60%
64) 1,2-Dichlorobenzene-d4	12.22	152	105195	4.55	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	7080	0.197	ug/L #	54
9) Trichlorofluoromethane	2.16	101	28942	0.637	ug/L	99
12) 1,1-Dichloroethene	2.61	96	18782	0.934	ug/L #	1
13) Acetone	2.66	43	12756	3.272	ug/L	91
14) Carbon disulfide	2.83	76	11391	0.169	ug/L	98
17) Methyl tert-butyl Ether	3.41	73	31215	0.724	ug/L #	32
18) trans-1,2-Dichloroethene	3.39	96	15865	0.753	ug/L	95
19) 1,1-Dichloroethane	3.92	63	12392	0.319	ug/L	92
22) cis-1,2-Dichloroethene	4.72	96	486074	21.511	ug/L	99
29) 1,1,1-Trichloroethane	5.37	97	2415	0.067	ug/L #	88
33) Benzene	5.82	78	12582	0.139	ug/L	100
34) Trichloroethene	6.58	95	3020107	129.642	ug/L	98
42) Toluene	8.00	91	2674410	27.613	ug/L	99
47) Tetrachloroethene	8.58	164	7169	0.341	ug/L	98
51) Chlorobenzene	9.48	112	18819	0.294	ug/L	95
53) m,p-Xylene	9.72	106	4012	0.107	ug/L	80
63) 1,4-Dichlorobenzene	11.86	146	76907	1.901	ug/L	98

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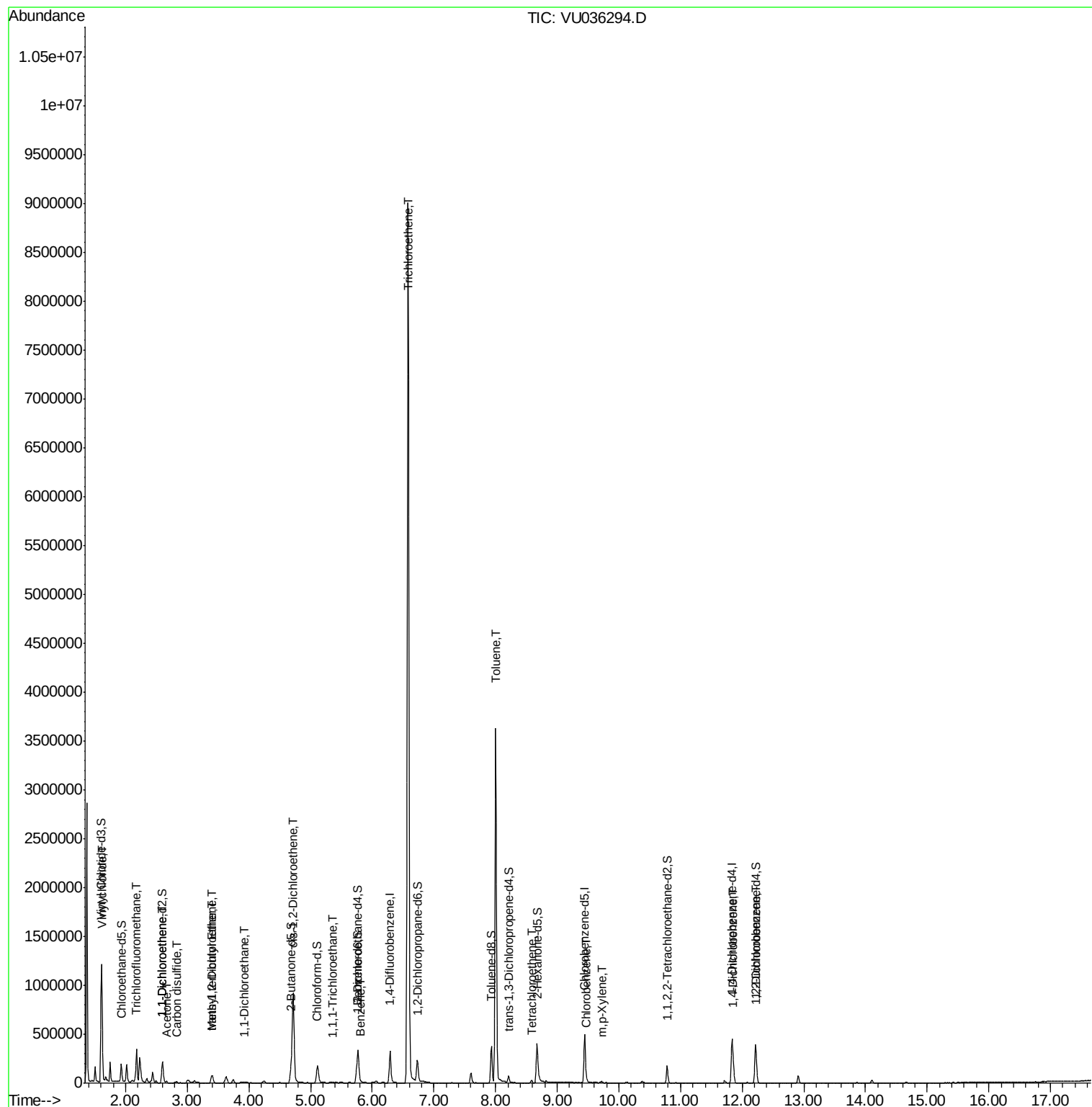
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	12.23	146	48854	1.257	ug/L	97

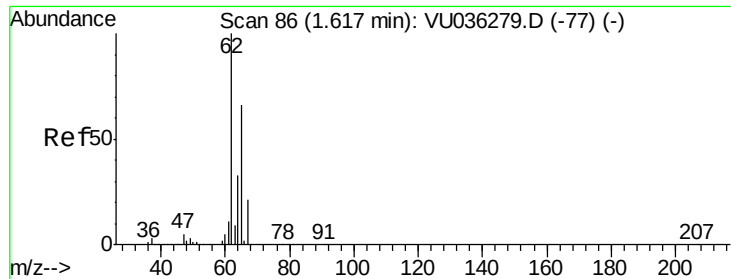
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 20 03:13:48 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.197 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

Instrument :

MSVOA_U

ClientSampleId :

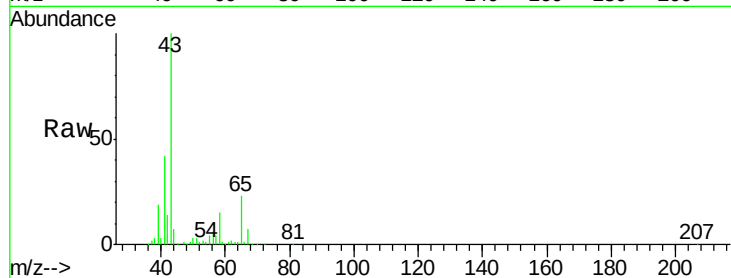
BFDW9

Tot Ion: 62 Resp: 7080

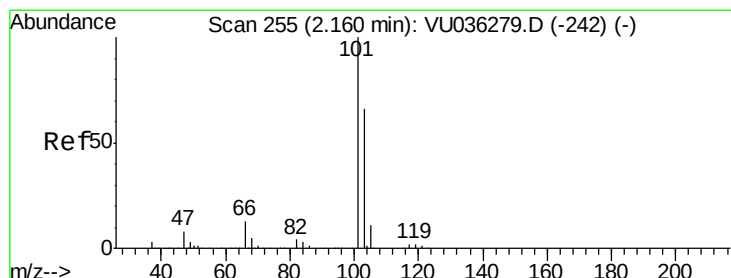
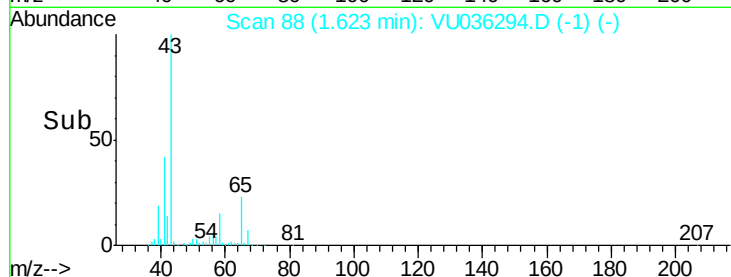
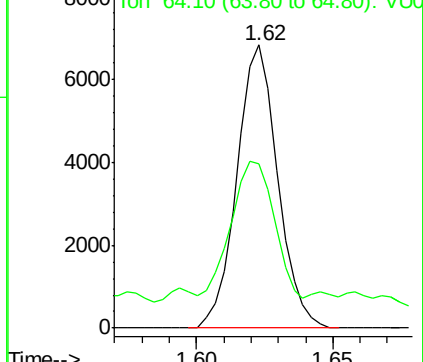
Ion Ratio Lower Upper

62 100

64 57.9 22.4 41.6#



Abundance Ion 62.00 (61.70 to 62.70): VU036294.D (-1) (-)



#9

Trichlorofluoromethane

Concen: 0.637 ug/L

RT: 2.16 min Scan# 255

Delta R.T. -0.00 min

Lab File: VU036294.D

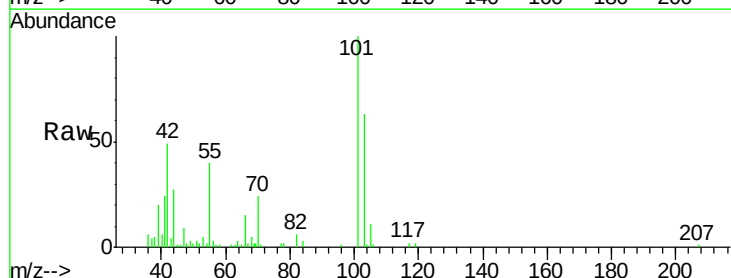
Acq: 19 Dec 2019 19:45

Tgt Ion: 101 Resp: 28942

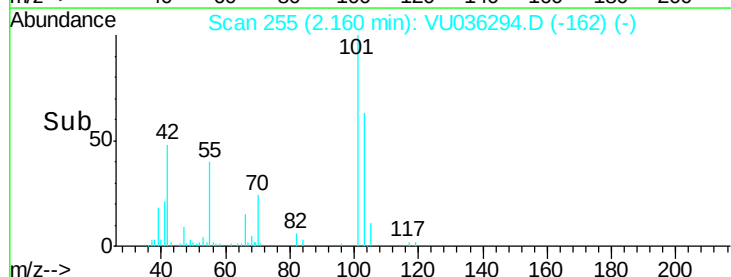
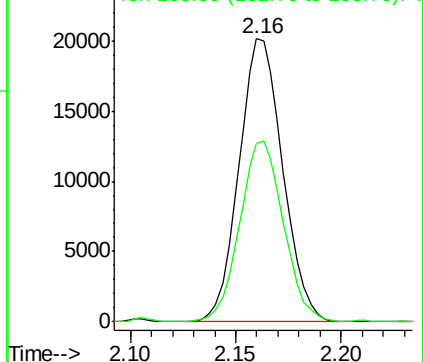
Ion Ratio Lower Upper

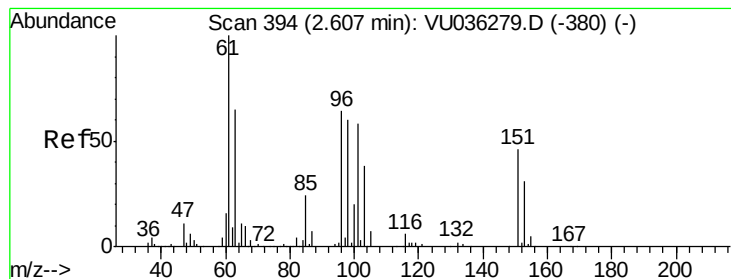
101 100

103 63.9 50.4 75.6



Abundance Ion 101.00 (100.70 to 101.70): VU036294.D (-162) (-)





#12

1,1-Dichloroethene

Concen: 0.934 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

Instrument :

MSVOA_U

ClientSampleId :

BFDW9

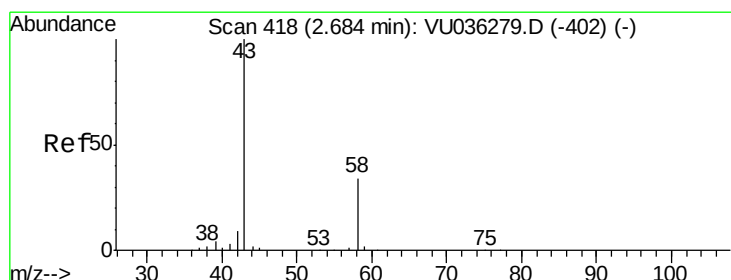
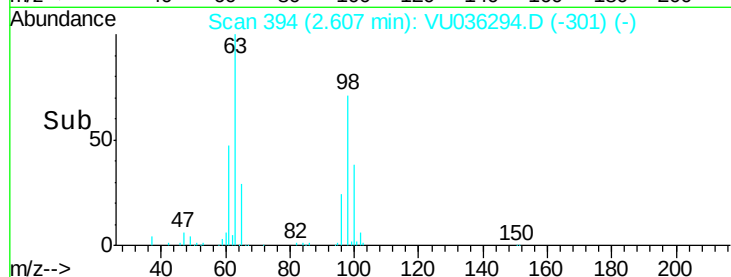
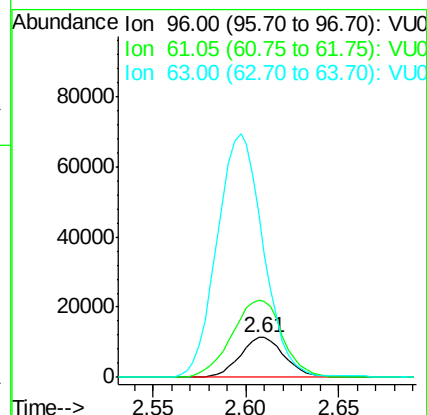
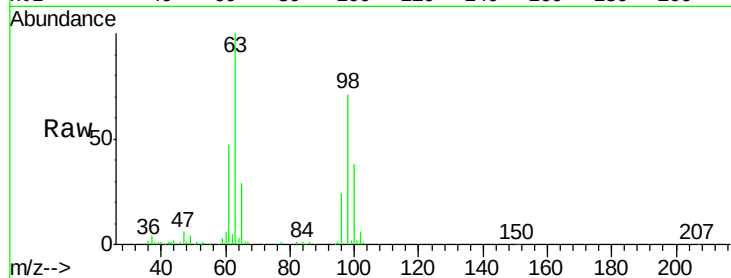
Tot Ion: 96 Resp: 18782

Ion Ratio Lower Upper

96 100

61 193.5 114.0 211.8

63 410.2 63.6 118.0#



#13

Acetone

Concen: 3.272 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.02 min

Lab File: VU036294.D

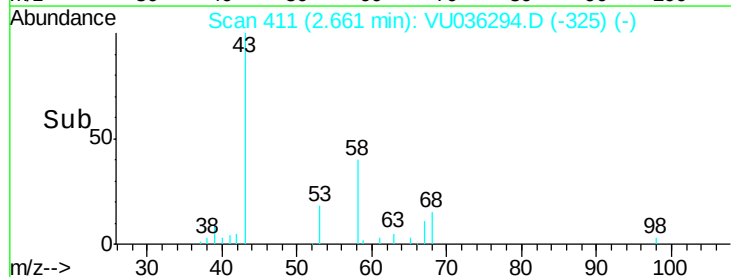
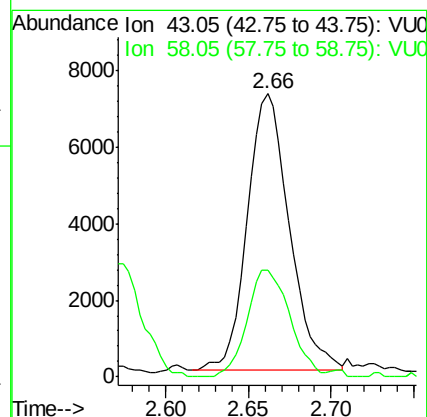
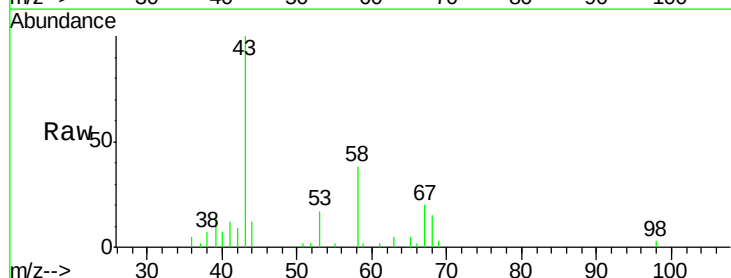
Acq: 19 Dec 2019 19:45

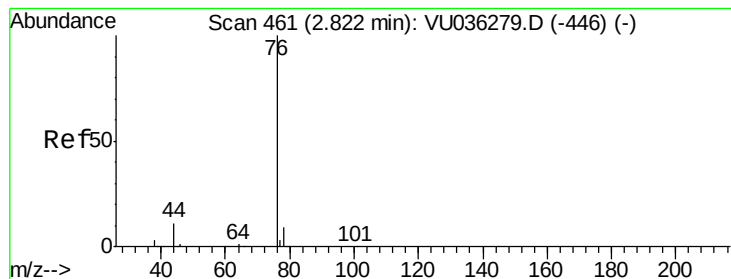
Tgt Ion: 43 Resp: 12756

Ion Ratio Lower Upper

43 100

58 39.1 0.0 67.6





#14

Carbon disulfide

Concen: 0.169 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

Instrument :

MSVOA_U

ClientSampleId :

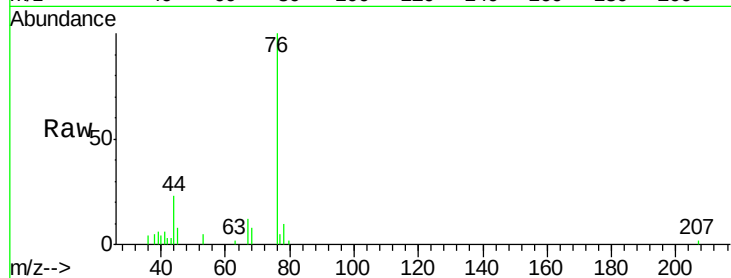
BFDW9

Tot Ion: 76 Resp: 11391

Ion Ratio Lower Upper

76 100

78 9.7 7.1 10.7

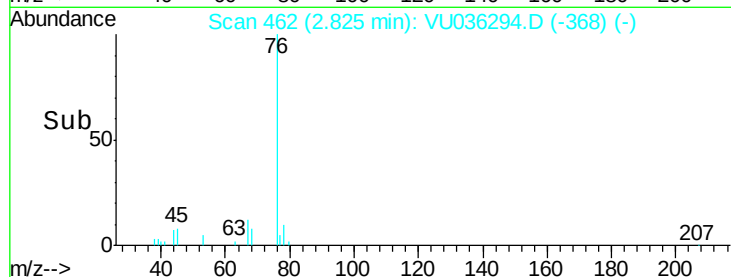


Abundance Ion 76.05 (75.75 to 76.75): VU036279.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU036279.D (-446) (-)

2.83

Time-->



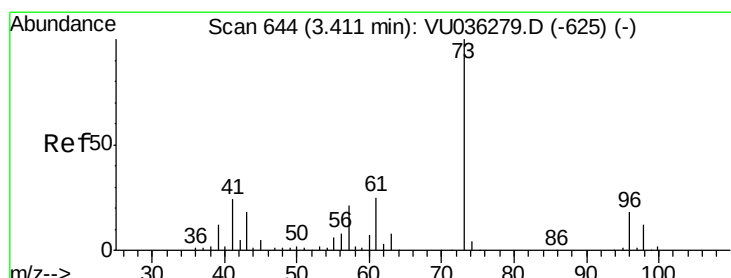
Abundance Ion 73.10 (72.80 to 73.80): VU036294.D (-551) (-)

Ion 43.05 (42.75 to 43.75): VU036294.D (-551) (-)

Ion 57.10 (56.80 to 57.80): VU036294.D (-551) (-)

3.41

Time-->



#17

Methyl tert-butyl Ether

Concen: 0.724 ug/L

RT: 3.41 min Scan# 645

Delta R.T. 0.00 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

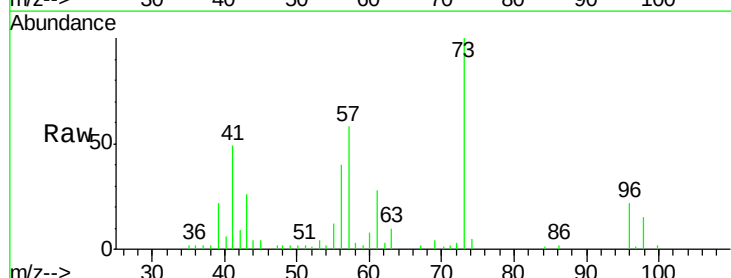
Tgt Ion: 73 Resp: 31215

Ion Ratio Lower Upper

73 100

43 31.7 15.3 22.9#

57 72.0 18.2 27.2#



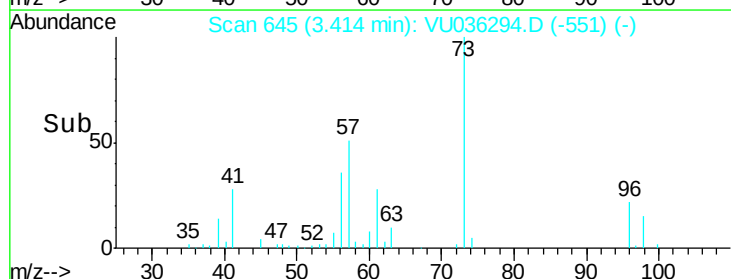
Abundance Ion 73.10 (72.80 to 73.80): VU036294.D (-551) (-)

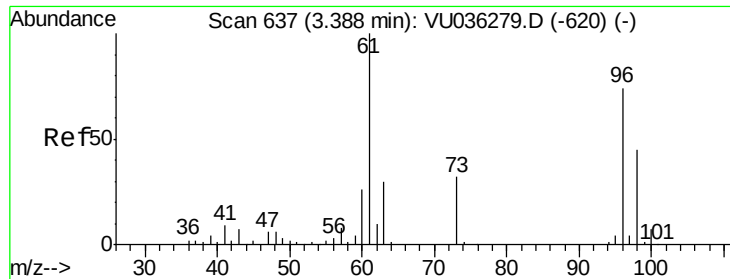
Ion 43.05 (42.75 to 43.75): VU036294.D (-551) (-)

Ion 57.10 (56.80 to 57.80): VU036294.D (-551) (-)

3.41

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.753 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.01 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

Instrument :

MSVOA_U

ClientSampleId :

BFDW9

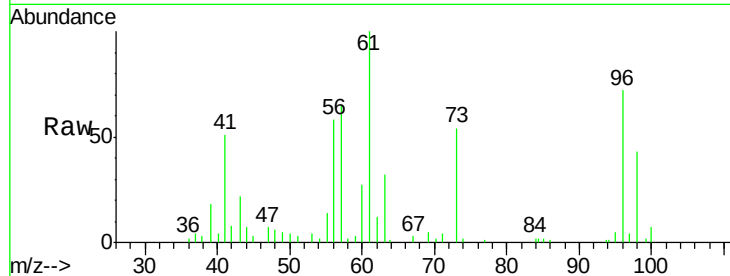
Tot Ion: 96 Resp: 15865

Ion Ratio Lower Upper

96 100

61 138.8 94.8 176.2

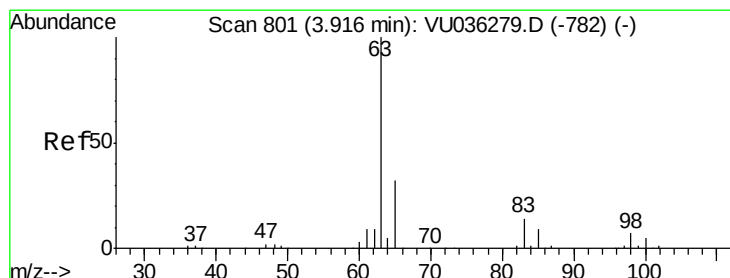
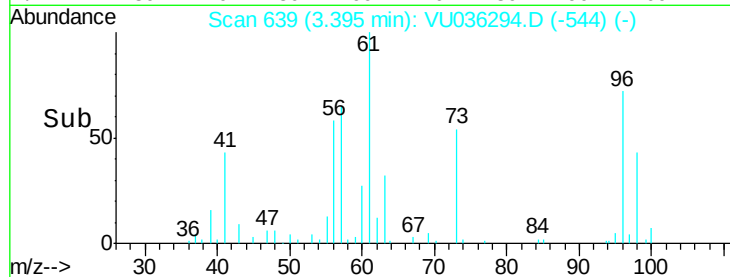
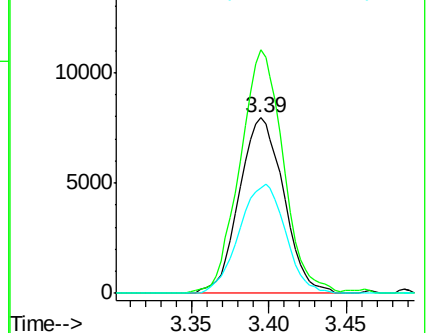
98 59.8 46.8 86.8



Abundance Ion 96.00 (95.70 to 96.70): VU036294.D (-544) (-)

Ion 61.05 (60.75 to 61.75): VU036294.D (-544) (-)

Ion 97.95 (97.65 to 98.65): VU036294.D (-544) (-)



#19

1,1-Dichloroethane

Concen: 0.319 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.01 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

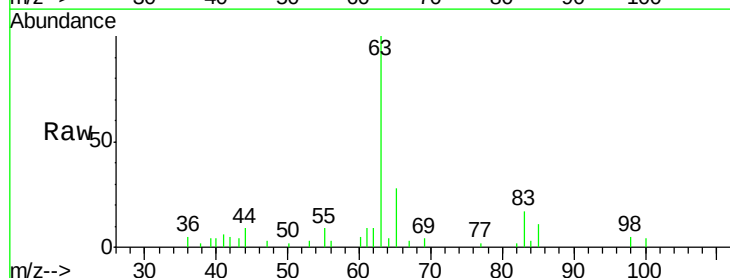
Tgt Ion: 63 Resp: 12392

Ion Ratio Lower Upper

63 100

65 27.6 22.6 42.0

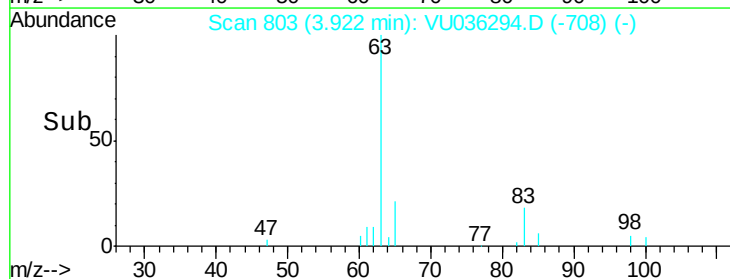
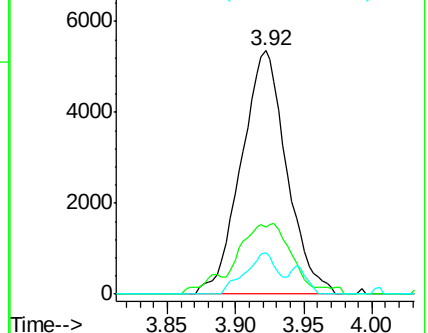
83 17.2 9.7 18.1

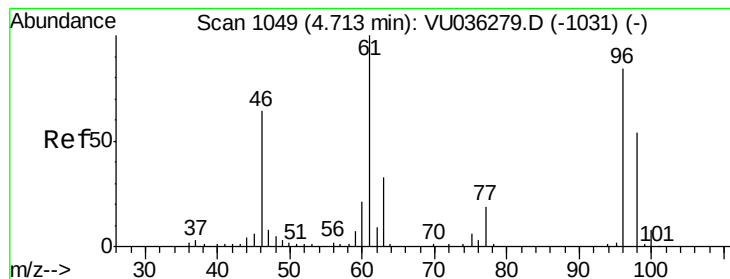


Abundance Ion 63.10 (62.80 to 63.80): VU036294.D (-708) (-)

Ion 65.10 (64.80 to 65.80): VU036294.D (-708) (-)

Ion 83.05 (82.75 to 83.75): VU036294.D (-708) (-)





#22

cis-1,2-Dichloroethene

Concen: 21.511 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

Instrument :

MSVOA_U

ClientSampleId :

BFDW9

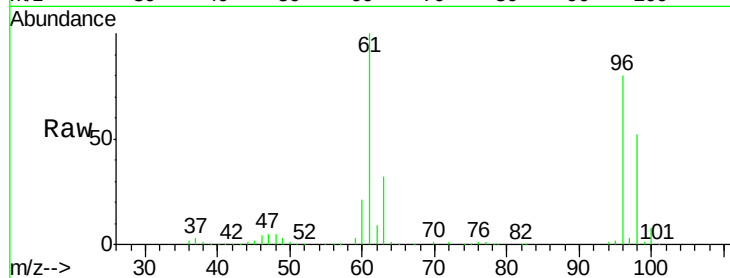
Tot Ion: 96 Resp: 486074

Ion Ratio Lower Upper

96 100

61 125.5 86.7 161.1

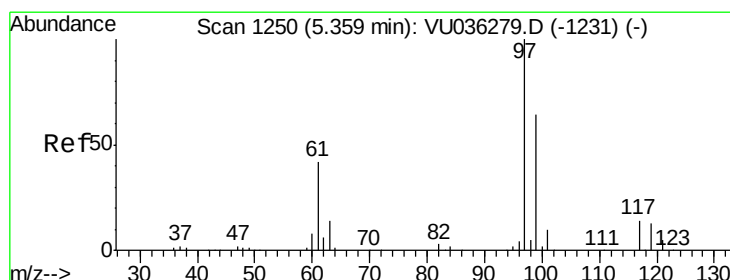
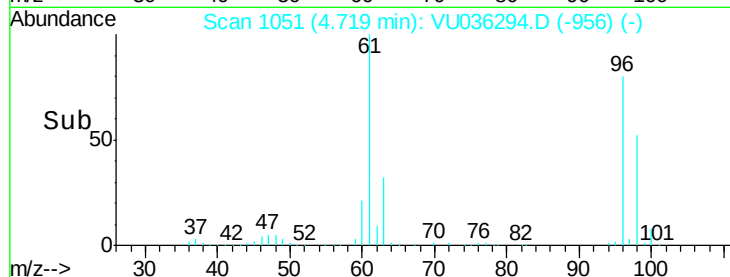
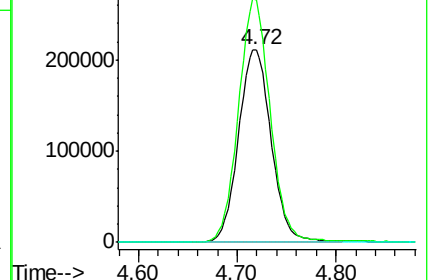
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036294.D (-956) (-)

Ion 61.05 (60.75 to 61.75): VU036294.D (-956) (-)

Ion 68.15 (67.85 to 68.85): VU036294.D (-956) (-)



#29

1,1,1-Trichloroethane

Concen: 0.067 ug/L

RT: 5.37 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

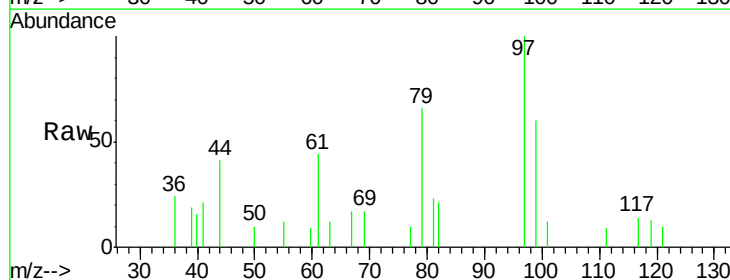
Tgt Ion: 97 Resp: 2415

Ion Ratio Lower Upper

97 100

99 69.1 51.4 77.2

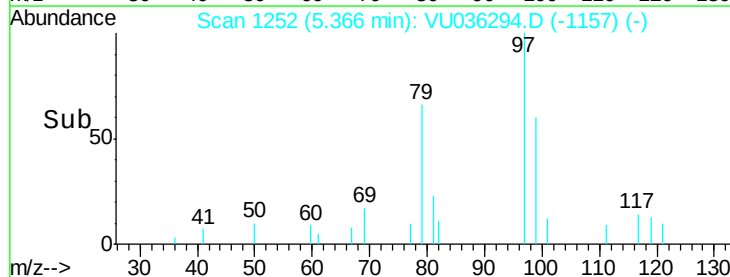
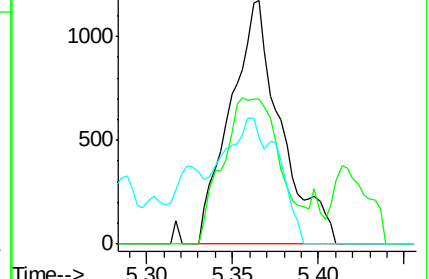
61 57.4 35.0 52.6#

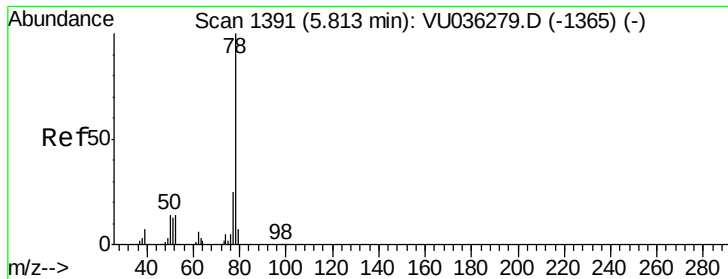


Abundance Ion 96.95 (96.65 to 97.65): VU036294.D (-1157) (-)

Ion 99.05 (98.75 to 99.75): VU036294.D (-1157) (-)

Ion 61.05 (60.75 to 61.75): VU036294.D (-1157) (-)





#33

Benzene

Concen: 0.139 ug/L

RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

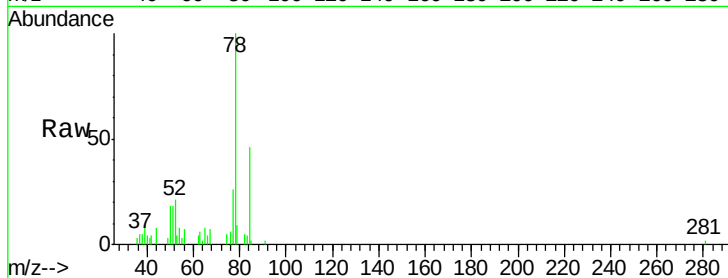
Instrument :

MSVOA_U

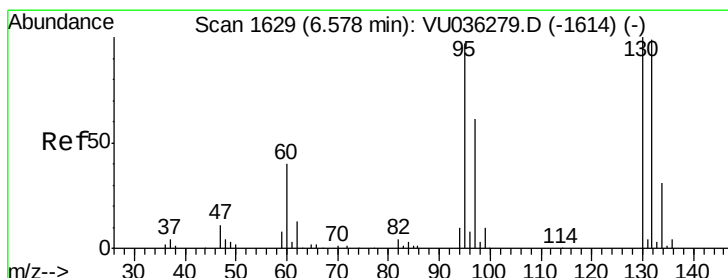
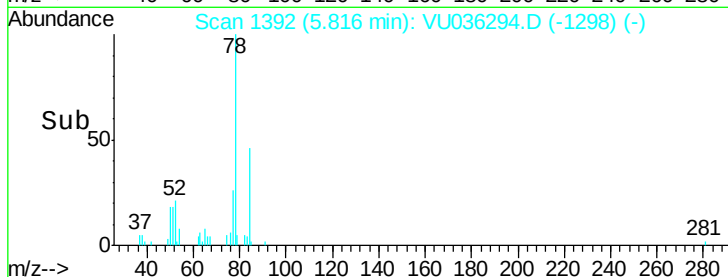
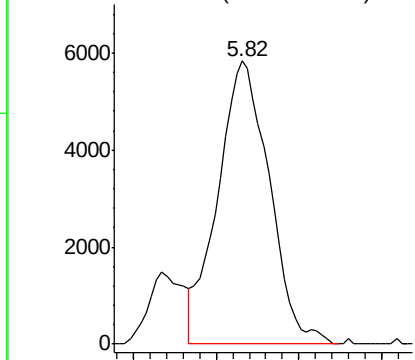
ClientSampled :

BFDW9

Tgt Ion: 78 Resp: 12582



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 129.642 ug/L

RT: 6.58 min Scan# 1630

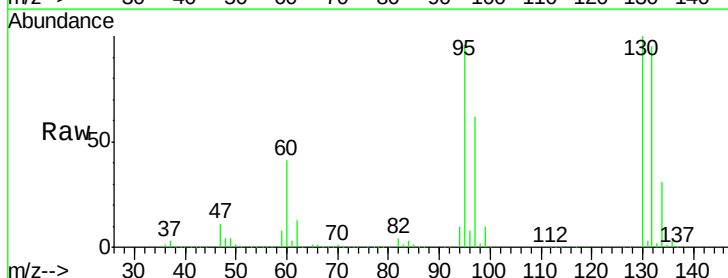
Delta R.T. 0.00 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

Tgt Ion: 95 Resp: 3020107

Ion	Ratio	Lower	Upper
95	100		
97	64.7	43.6	81.0
132	99.2	69.6	129.2
130	104.2	70.3	130.7

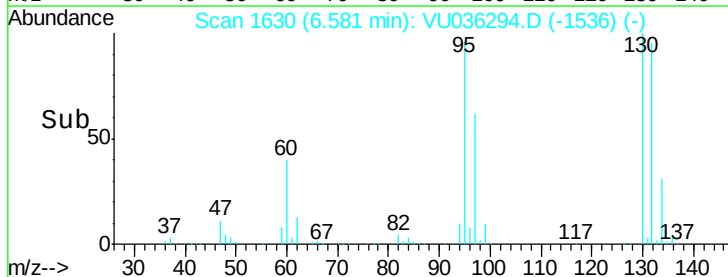
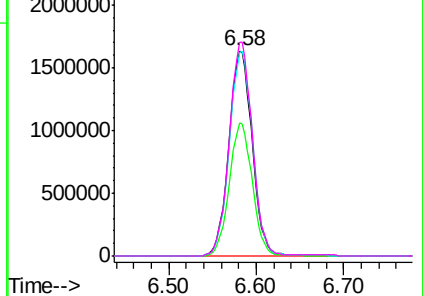


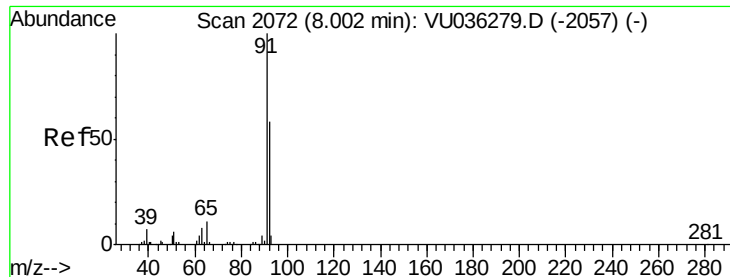
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0





#42

Toluene

Concen: 27.613 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

Instrument :

MSVOA_U

ClientSampleId :

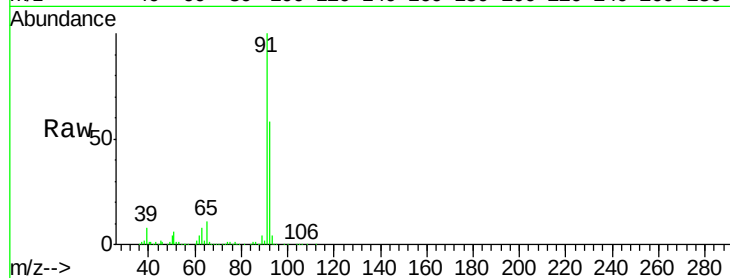
BFDW9

Tot Ion: 91 Resp: 2674410

Ion Ratio Lower Upper

91 100

92 58.5 41.2 76.6



Abundance Ion 91.15 (90.85 to 91.85): VU036279.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU036279.D (-2057) (-)

8.00

1500000

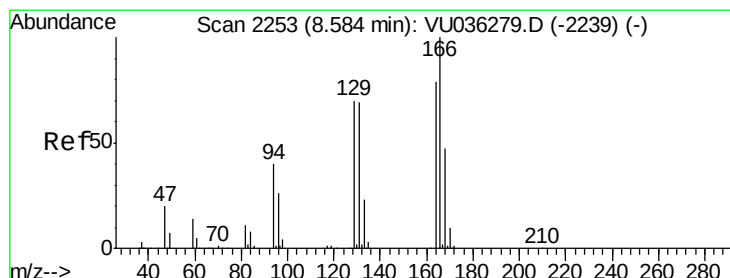
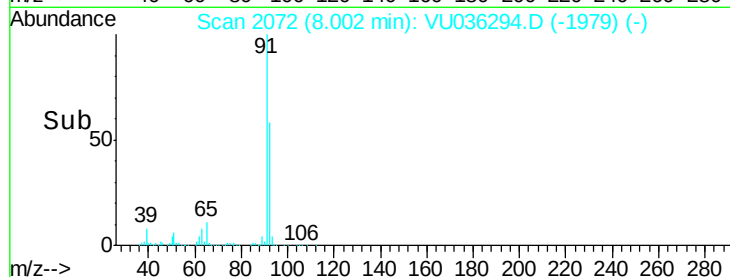
1000000

500000

0

7.90 8.00 8.10 8.20

Time-->



#47

Tetrachloroethene

Concen: 0.341 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

Tgt Ion:164 Resp: 7169

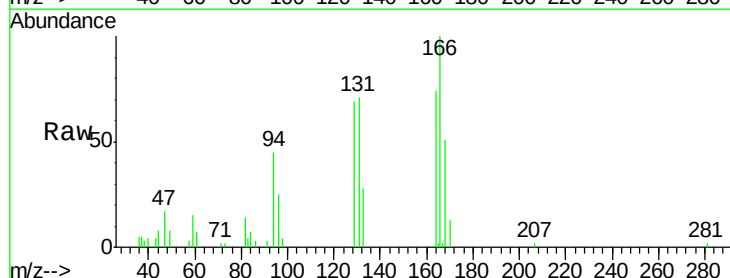
Ion Ratio Lower Upper

164 100

129 93.4 64.2 119.2

131 95.8 66.6 123.8

166 135.5 93.1 172.9



Abundance Ion 163.90 (163.60 to 164.60): VU036279.D (-2239) (-)

Ion 128.95 (128.65 to 129.65): VU036279.D (-2239) (-)

Ion 130.95 (130.65 to 131.65): VU036279.D (-2239) (-)

Ion 165.90 (165.60 to 166.60): VU036279.D (-2239) (-)

8000

6000

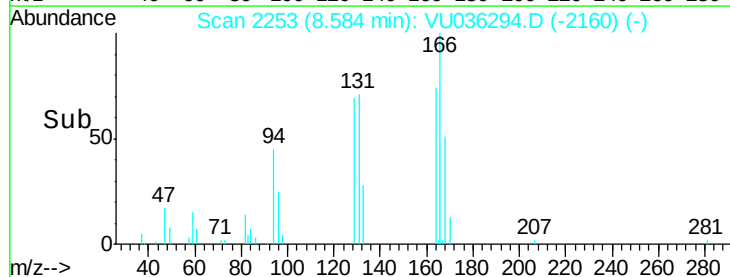
4000

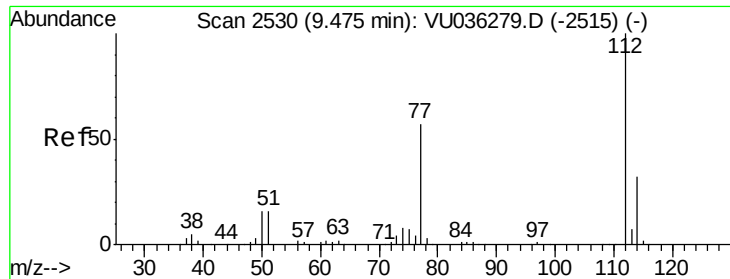
2000

0

8.55 8.60

Time-->

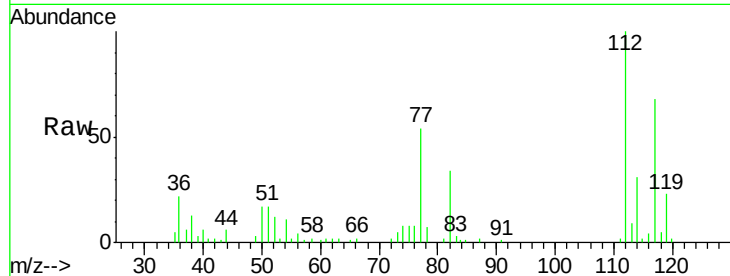




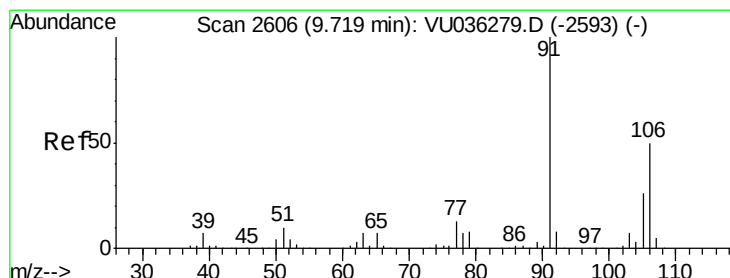
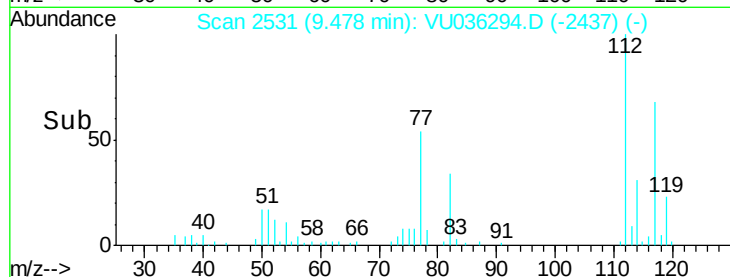
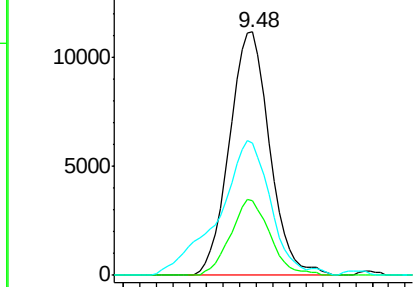
#51
Chlorobenzene
Concen: 0.294 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU036294.D
Acq: 19 Dec 2019 19:45

Instrument :
MSVOA_U
ClientSampleId :
BFDW9

Tot Ion:112 Resp: 18819
Ion Ratio Lower Upper
112 100
114 30.8 23.2 43.2
77 54.2 46.5 69.7

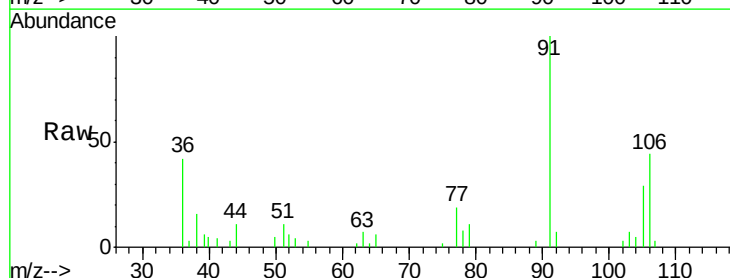


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

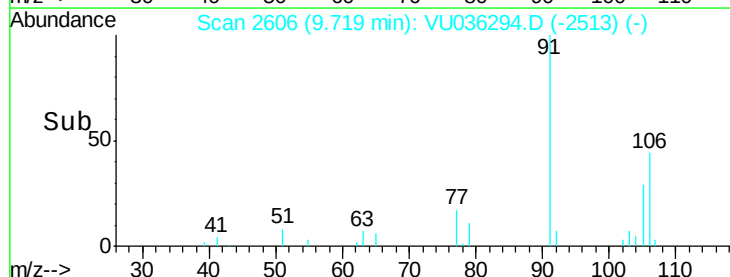
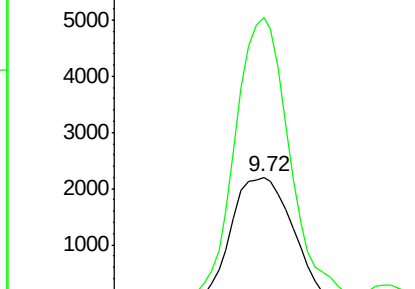


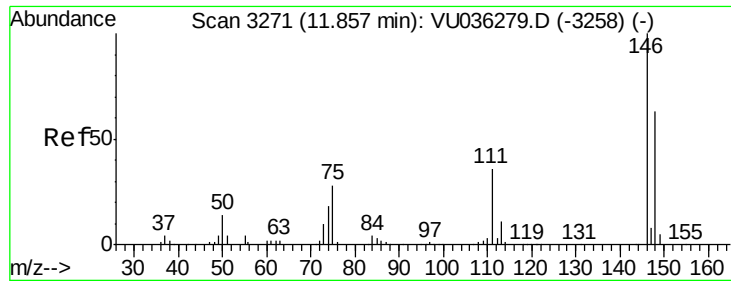
#53
m,p-Xylene
Concen: 0.107 ug/L
RT: 9.72 min Scan# 2606
Delta R.T. -0.00 min
Lab File: VU036294.D
Acq: 19 Dec 2019 19:45

Tgt Ion:106 Resp: 4012
Ion Ratio Lower Upper
106 100
91 228.4 138.7 257.7



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): V





#63

1,4-Dichlorobenzene

Concen: 1.901 ug/L

RT: 11.86 min Scan# 3271

Delta R.T. -0.00 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

Instrument :

MSVOA_U

ClientSampled :

BFDW9

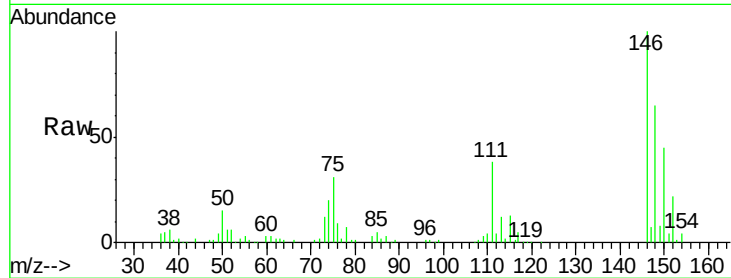
Tot Ion:146 Resp: 76907

Ion Ratio Lower Upper

146 100

111 37.9 25.8 48.0

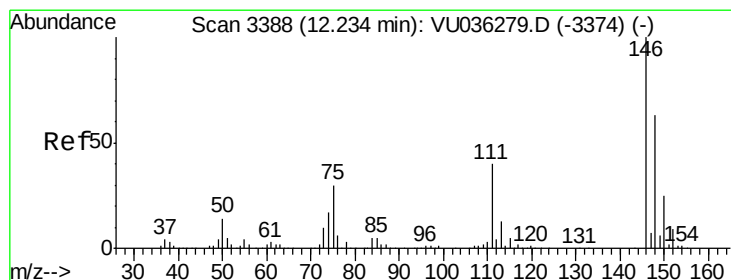
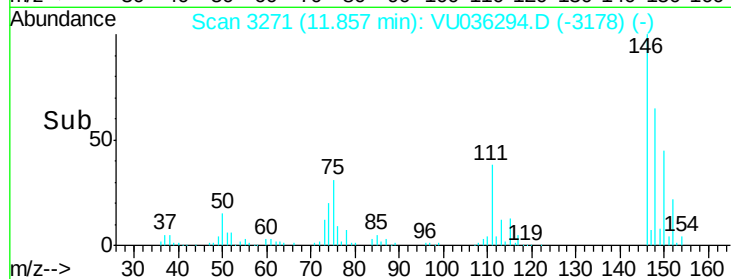
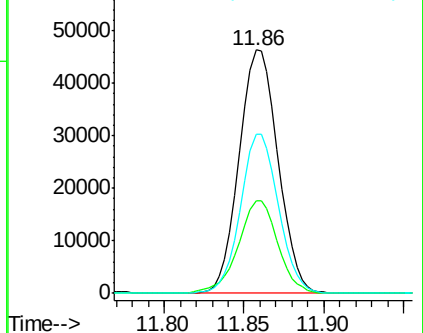
148 65.2 44.7 82.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 1.257 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

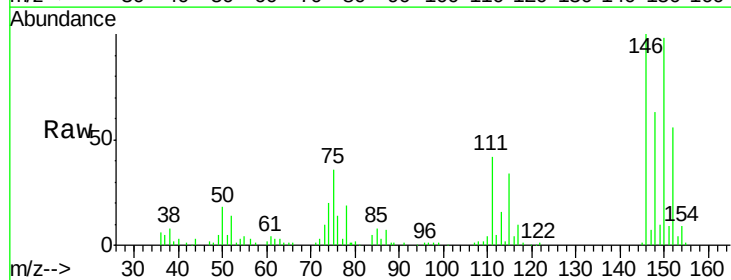
Tgt Ion:146 Resp: 48854

Ion Ratio Lower Upper

146 100

111 42.3 32.5 48.7

148 63.4 49.2 73.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

