

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 03:19:15 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

					Qvalue
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
15) Methyl Acetate	2.99	43	5881	0.747 ug/L #	49
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
25) Chloroform	5.14	83	8520	0.203 ug/L	94
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
35) Methylcyclohexane	6.73	83	23485	0.709 ug/L #	18
37) 1,2-Dichloropropane	6.73	63	11469	0.498 ug/L #	87
39) cis-1,3-Dichloropropene	7.60	75	2656	0.085 ug/L #	15

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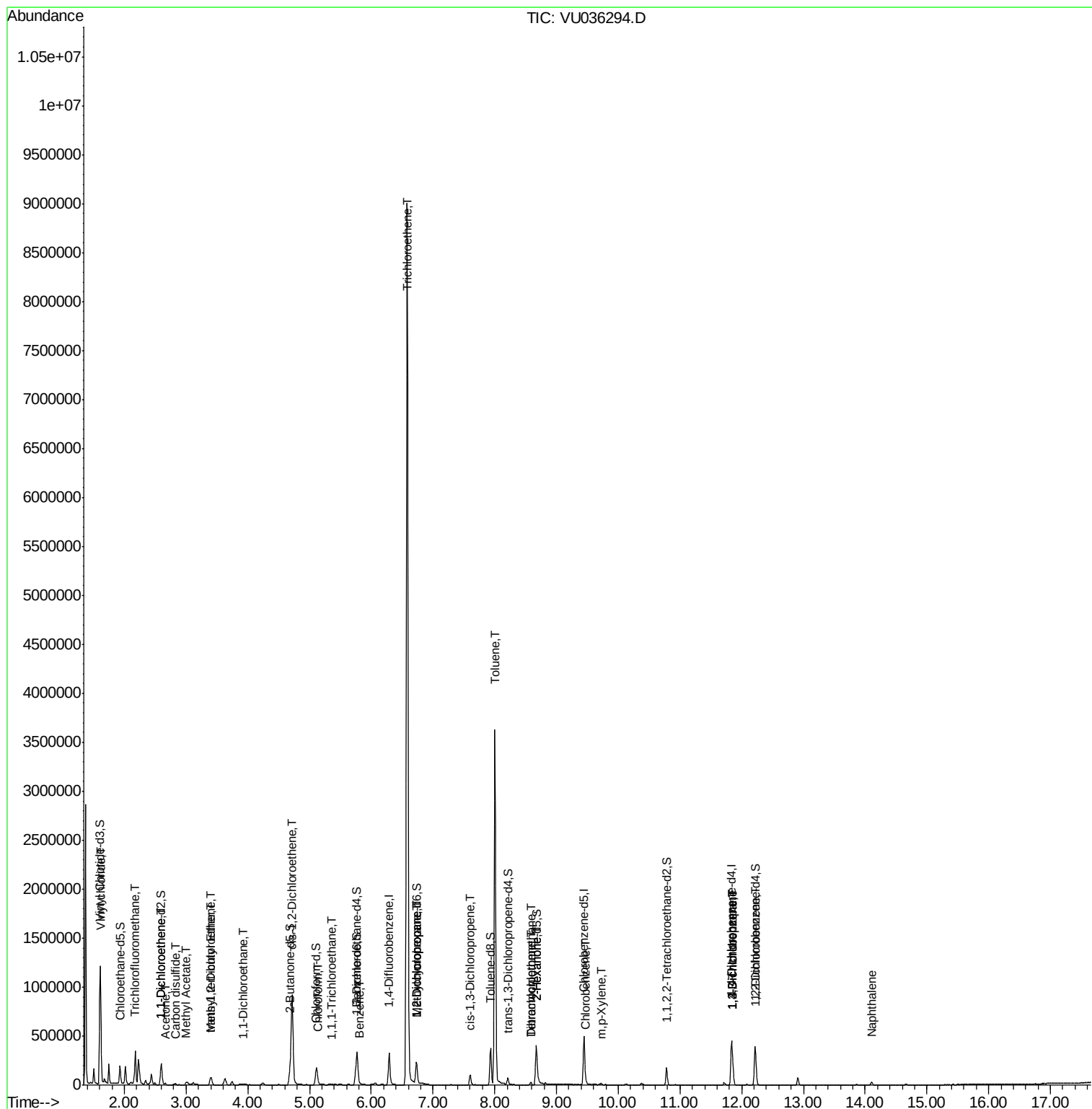
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	2674410	27.613	ug/L	99
47) Tetrachloroethene	8.58	164	7169	0.341	ug/L	98
48) 2-Hexanone	8.67	43	21482	2.387	ug/L #	69
49) Dibromochloromethane	8.58	129	6560	0.307	ug/L #	12
51) Chlorobenzene	9.48	112	18819	0.294	ug/L	95
53) m,p-Xylene	9.72	106	4012	0.107	ug/L	80
59) 1,2,3-Trichloropropane	11.86	75	35099	2.291	ug/L #	65
62) 1,3-Dichlorobenzene	11.86	146	76907	1.886	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	76907	1.901	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	48854	1.257	ug/L	97
69) Naphthalene	14.10	128	23395	0.916	ug/L	97

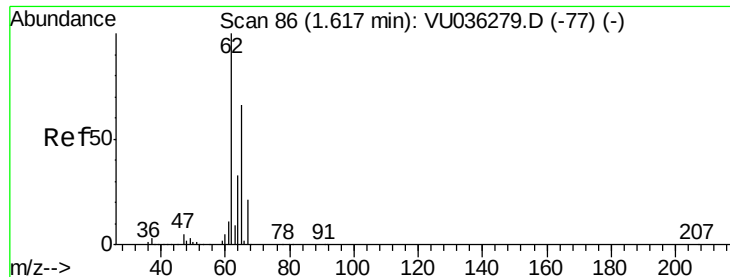
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#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 :

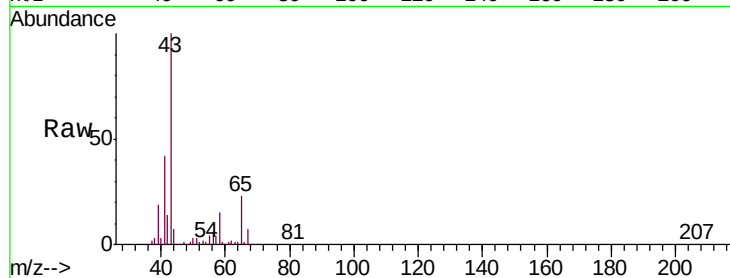
BFDW9

Tgt Ion: 62 Resp: 7080

Ion Ratio Lower Upper

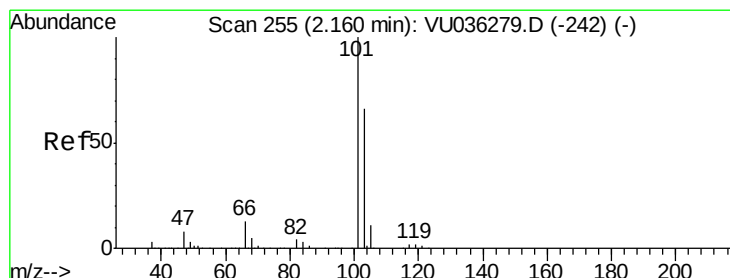
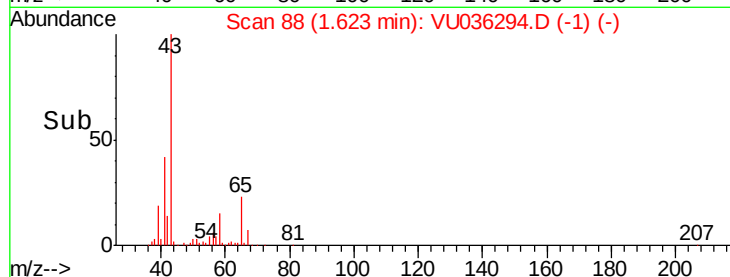
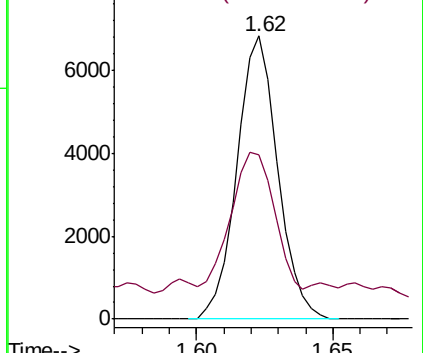
62 100

64 57.9 22.4 41.6#



Abundance Ion 62.00 (61.70 to 62.70): VU036279.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU036279.D (-77) (-)



#9

Trichlorofluoromethane

Concen: 0.637 ug/L

RT: 2.16 min Scan# 255

Delta R.T. -0.00 min

Lab File: VU036294.D

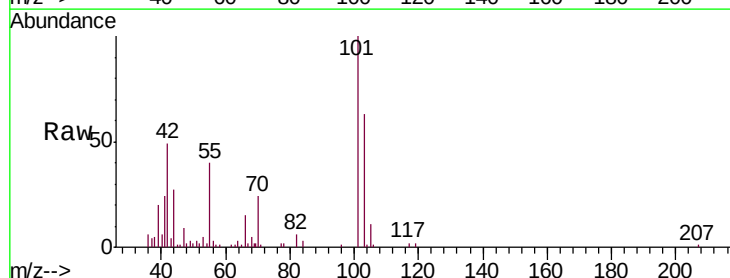
Acq: 19 Dec 2019 19:45

Tgt Ion: 101 Resp: 28942

Ion Ratio Lower Upper

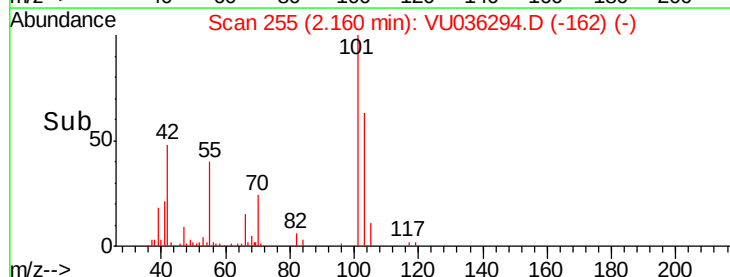
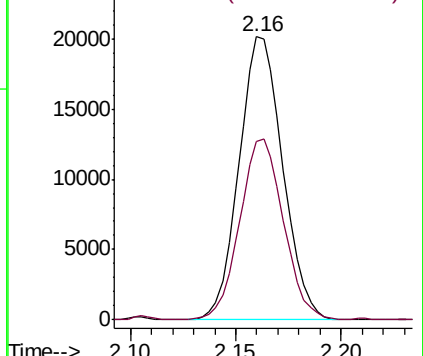
101 100

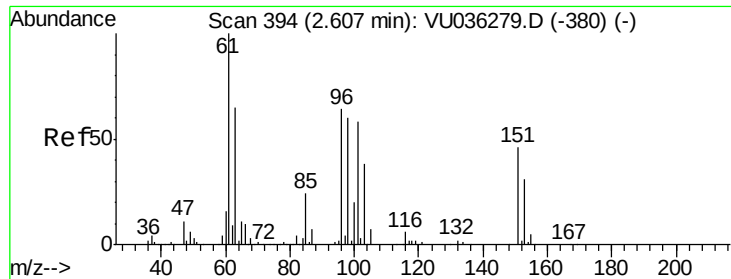
103 63.9 50.4 75.6



Abundance Ion 101.00 (100.70 to 101.70): VU036279.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU036279.D (-242) (-)

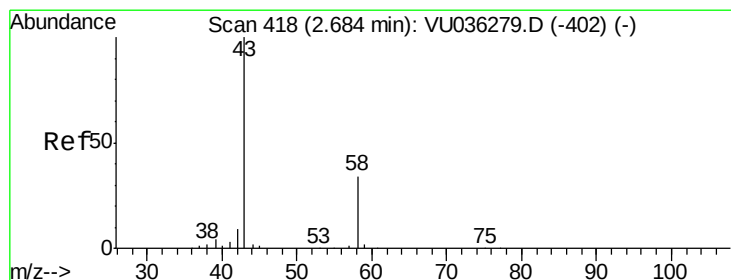
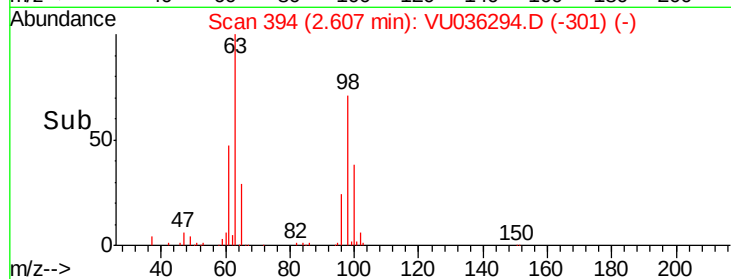
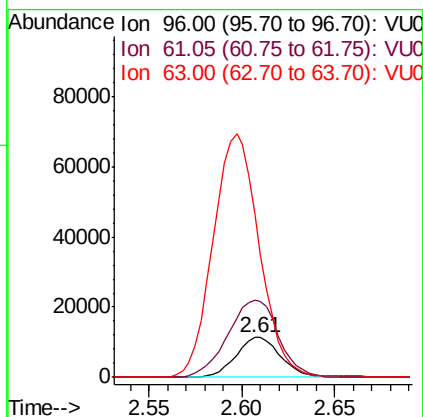
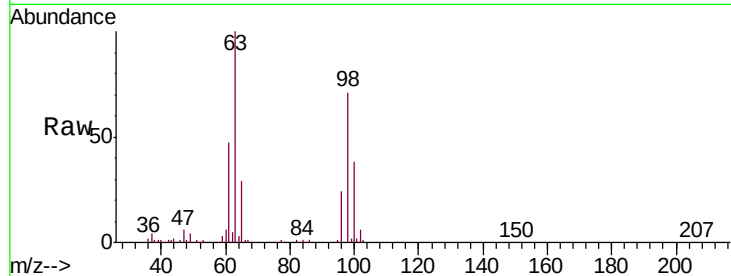




#12
 1,1-Dichloroethene
 Concen: 0.934 ug/L
 RT: 2.61 min Scan# 394
 Delta R.T. -0.00 min
 Lab File: VU036294.D
 Acq: 19 Dec 2019 19:45

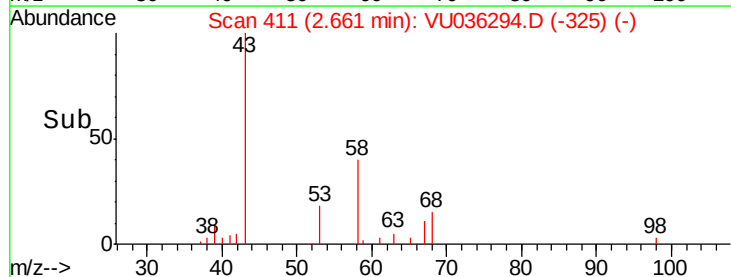
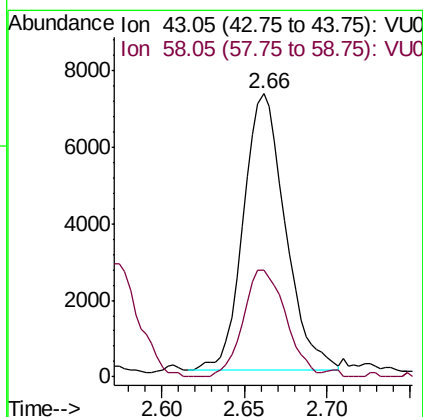
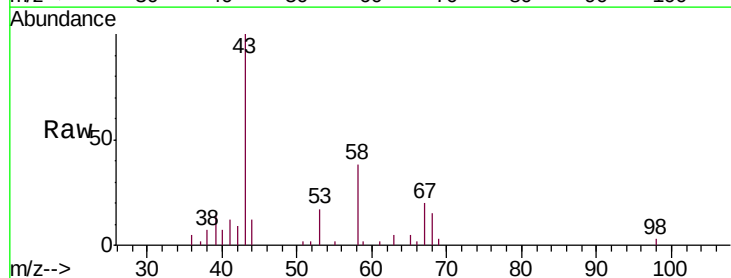
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDW9

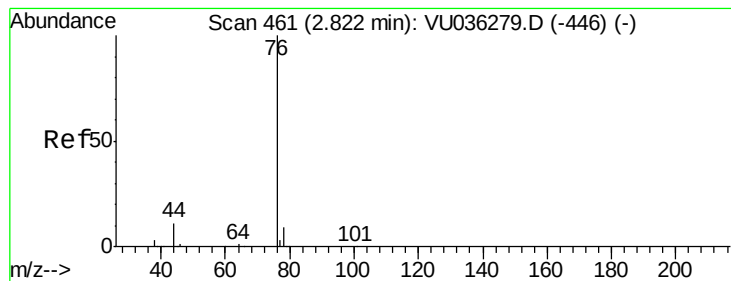
Tgt Ion	Ratio	Lower	Upper
96	100		
61	193.5	114.0	211.8
63	410.2	63.6	118.0#



#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	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 :

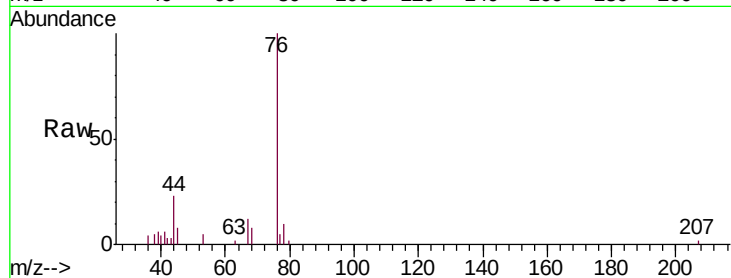
BFDW9

Tgt Ion: 76 Resp: 11391

Ion Ratio Lower Upper

76 100

78 9.7 7.1 10.7

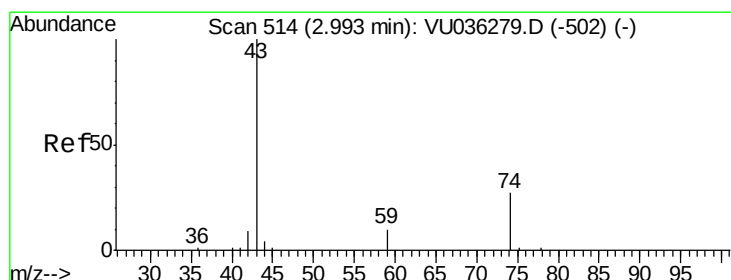
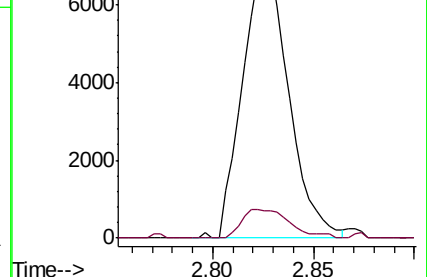
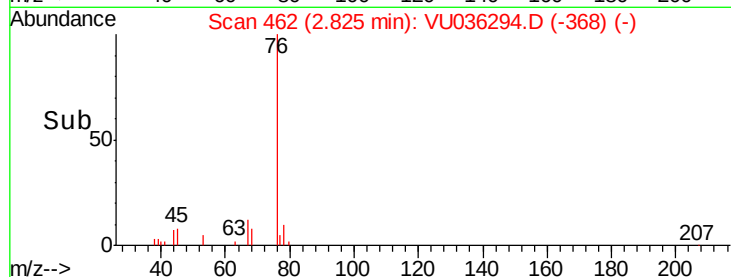


Abundance Ion 76.05 (75.75 to 76.75): VU036279.D (-446) (-)

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

2.83

Time-->



#15

Methyl Acetate

Concen: 0.747 ug/L

RT: 2.99 min Scan# 514

Delta R.T. -0.00 min

Lab File: VU036294.D

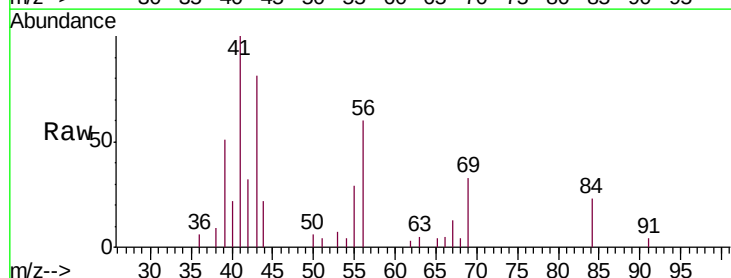
Acq: 19 Dec 2019 19:45

Tgt Ion: 43 Resp: 5881

Ion Ratio Lower Upper

43 100

74 0.0 20.8 31.2#

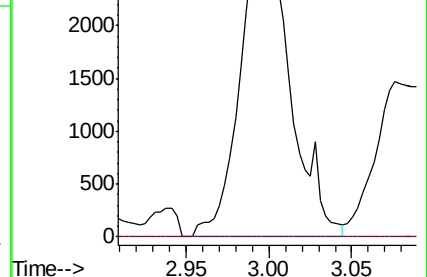
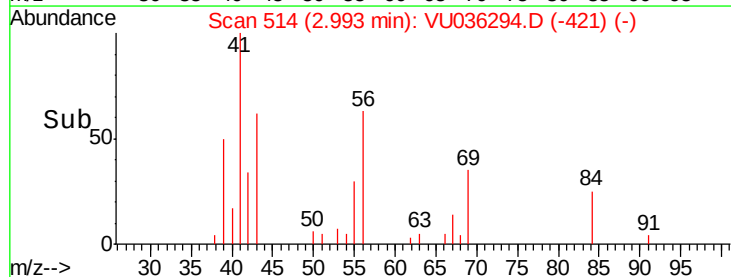


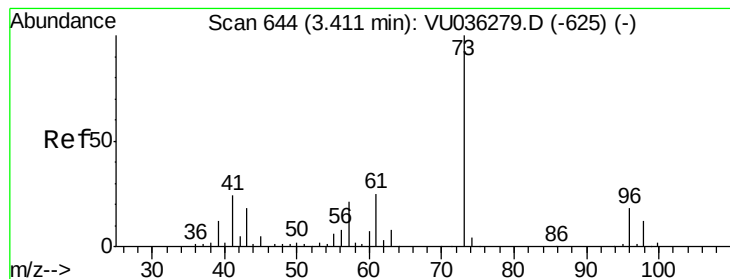
Abundance Ion 43.05 (42.75 to 43.75): VU036279.D (-502) (-)

Ion 74.05 (73.75 to 74.75): VU036279.D (-502) (-)

2.99

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

Instrument :

MSVOA_U

ClientSampled :

BFDW9

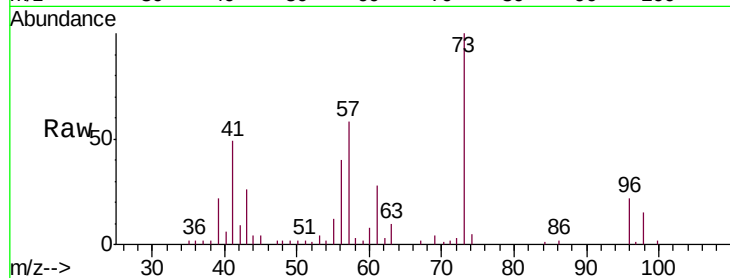
Tgt Ion: 73 Resp: 31215

Ion Ratio Lower Upper

73 100

43 31.7 15.3 22.9#

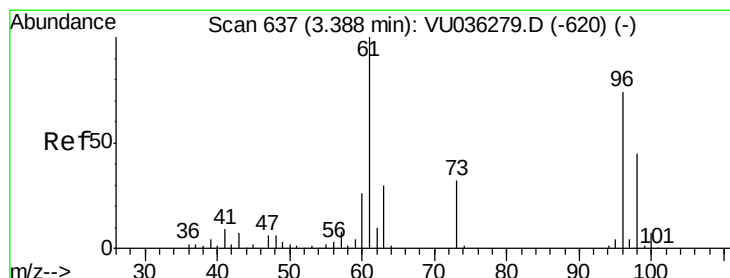
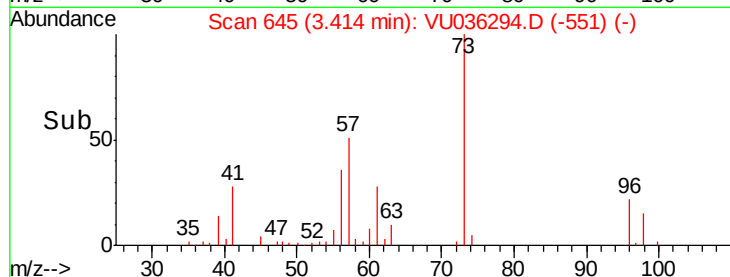
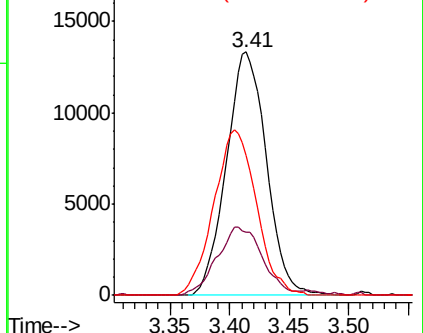
57 72.0 18.2 27.2#



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) (-)



#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

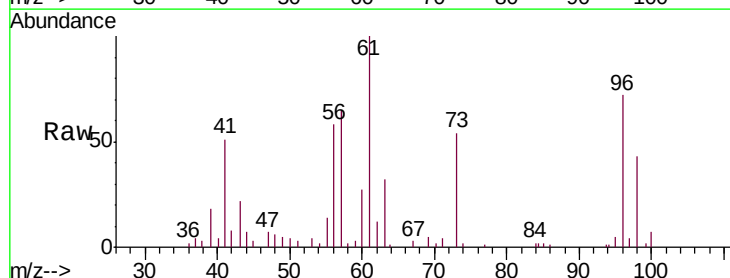
Tgt Ion: 96 Resp: 15865

Ion Ratio Lower Upper

96 100

61 138.8 94.8 176.2

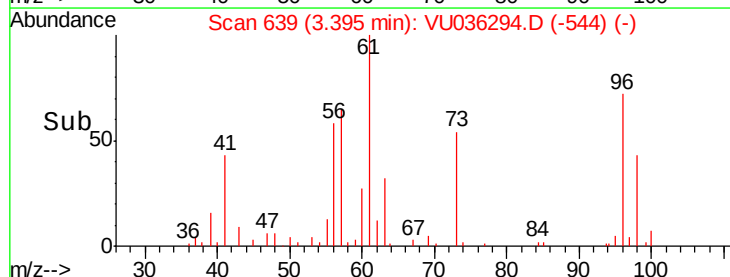
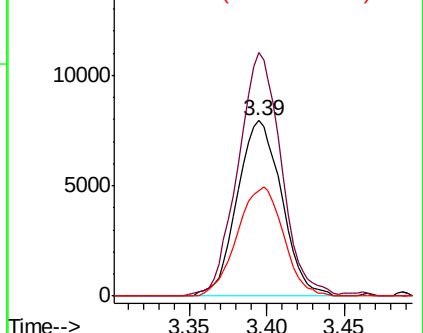
98 59.8 46.8 86.8

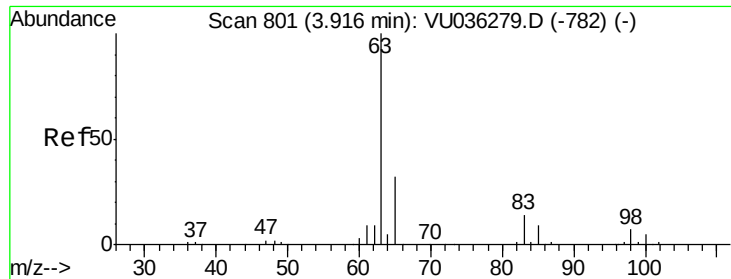


Abundance Ion 96.00 (95.70 to 96.70): VU036294.D (-544) (-)

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

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

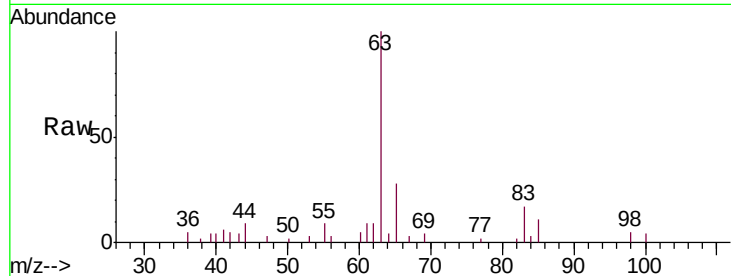




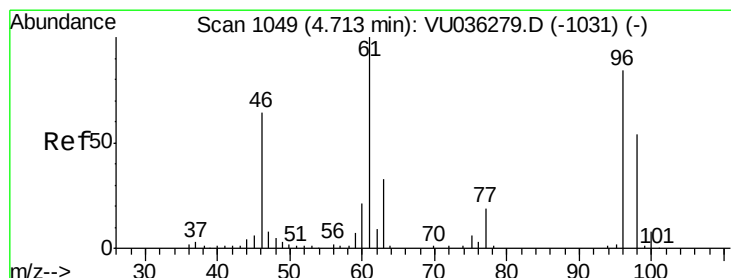
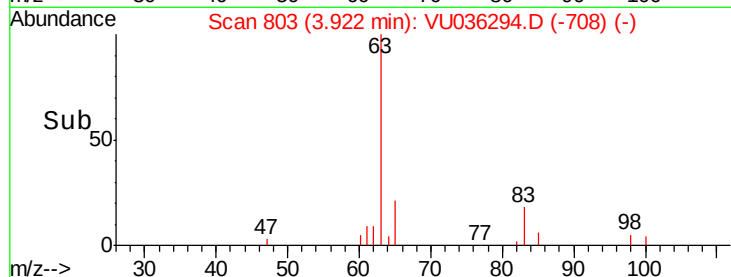
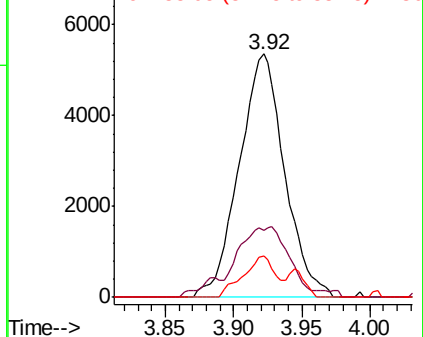
#19
 1,1-Dichloroethane
 Concen: 0.319 ug/L
 RT: 3.92 min Scan# 803
 Delta R.T. 0.01 min
 Lab File: VU036294.D
 Acq: 19 Dec 2019 19:45

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDW9

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

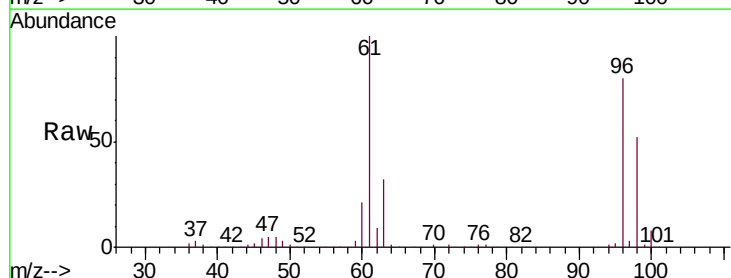


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

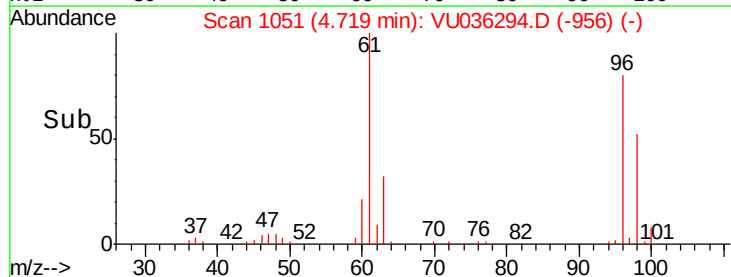
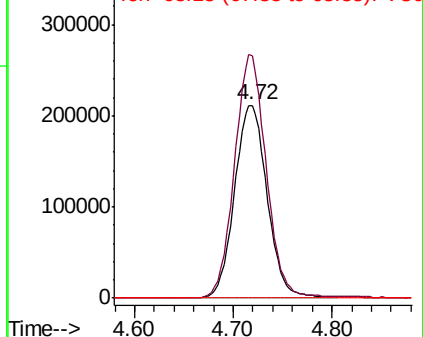


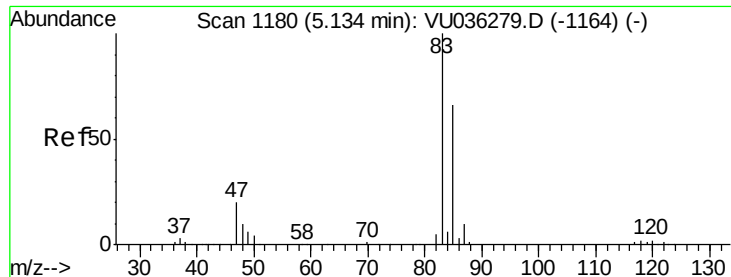
#22
 cis-1,2-Dichloroethene
 Concen: 21.511 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. 0.01 min
 Lab File: VU036294.D
 Acq: 19 Dec 2019 19:45

Tgt 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): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

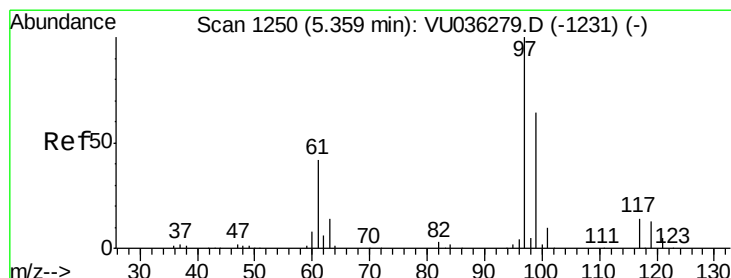
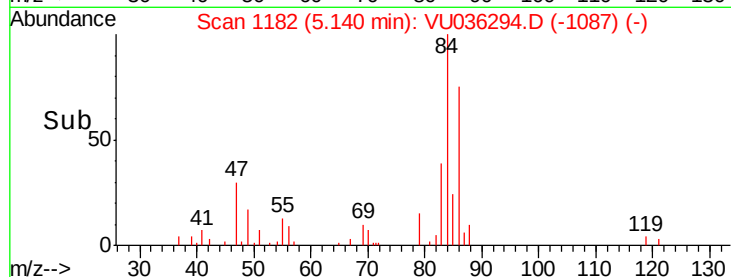
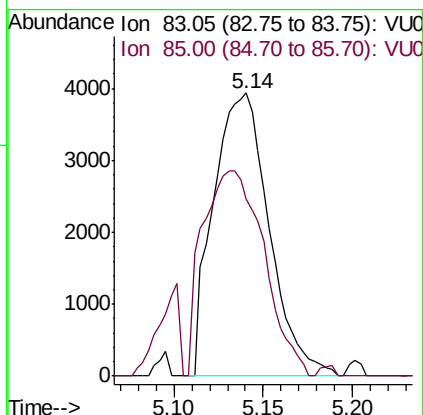
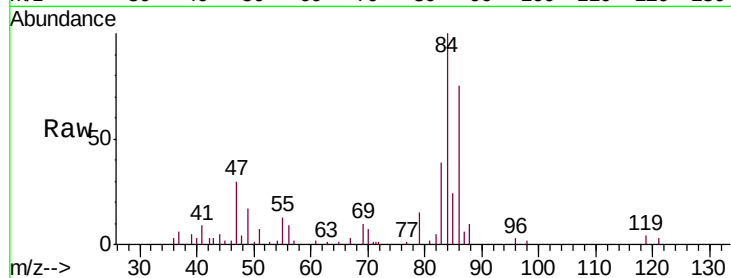




#25
Chloroform
Concen: 0.203 ug/L
RT: 5.14 min Scan# 1182
Delta R.T. 0.01 min
Lab File: VU036294.D
Acq: 19 Dec 2019 19:45

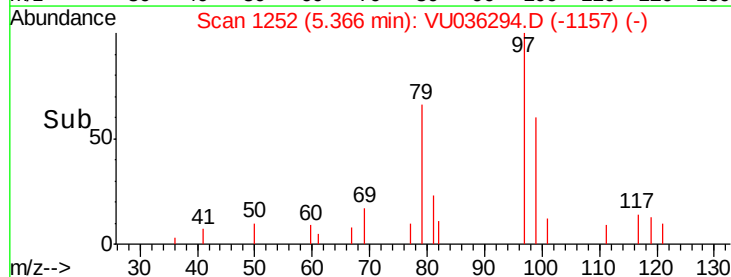
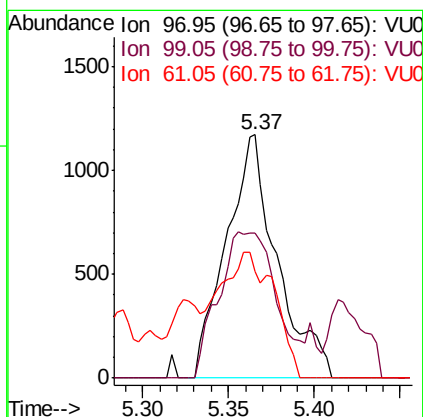
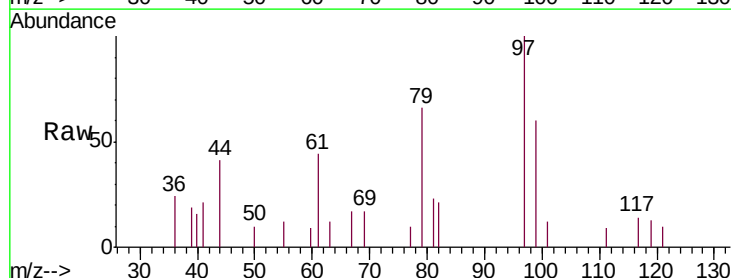
Instrument :
MSVOA_U
ClientSampleId :
BFDW9

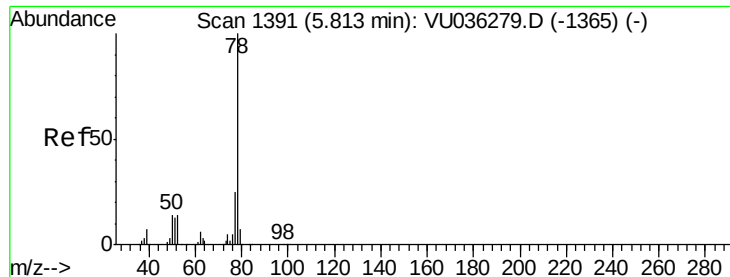
Tgt Ion: 83 Resp: 8520
Ion Ratio Lower Upper
83 100
85 62.6 47.5 88.1



#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#





#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

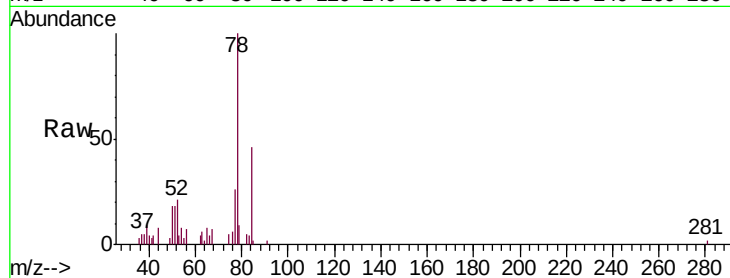
Instrument :

MSVOA_U

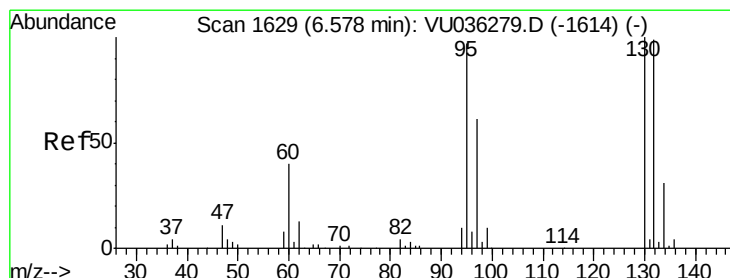
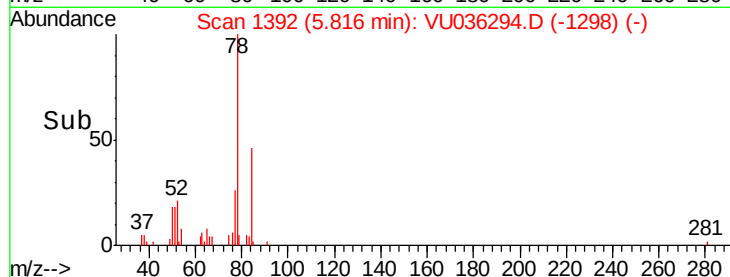
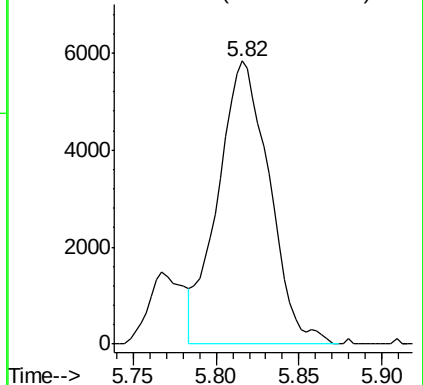
ClientSampled :

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

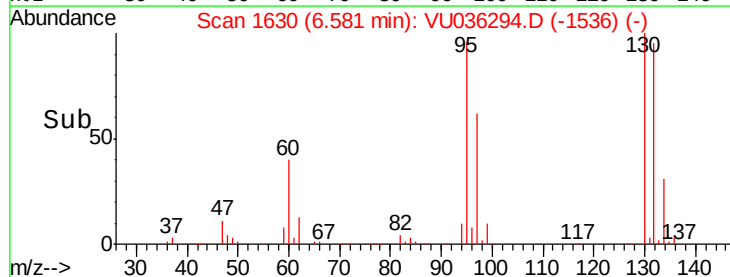
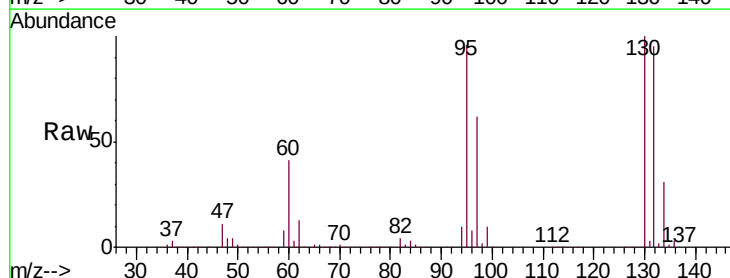
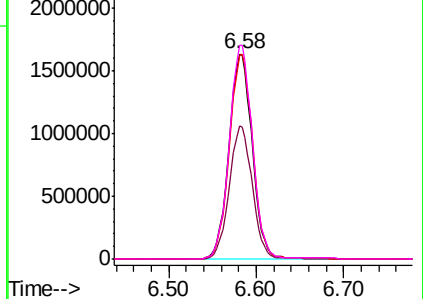
Ion	Ratio	Lower	Upper
95	100		
97	64.7	43.6	81.0
132	99.2	69.6	129.2
130	104.2	70.3	130.7

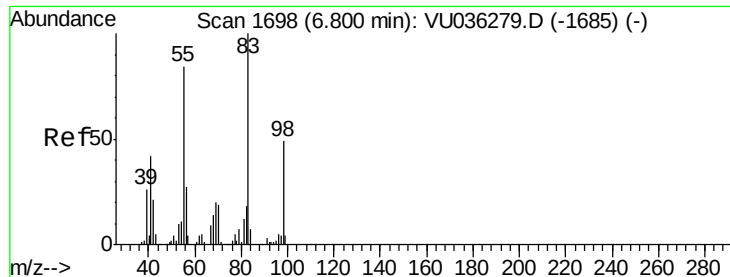
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

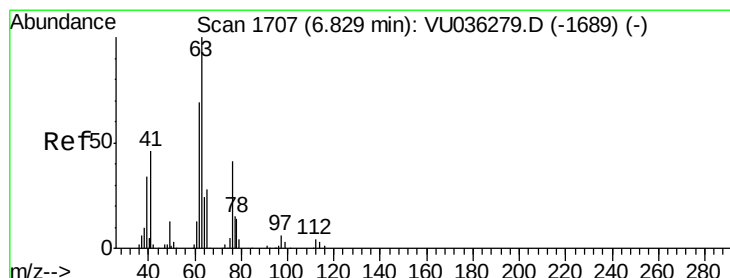
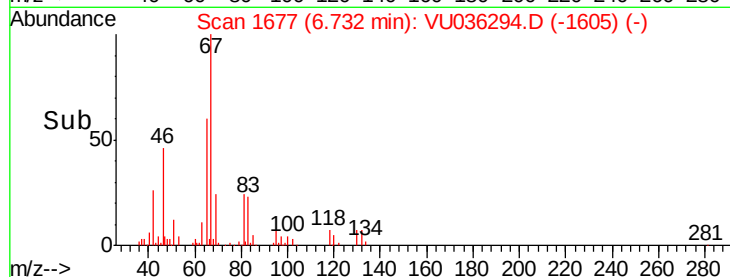
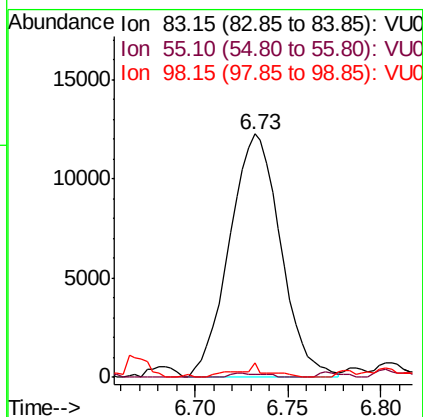
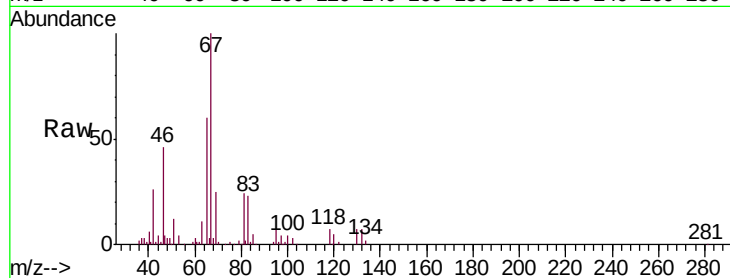




#35
Methylcyclohexane
Concen: 0.709 ug/L
RT: 6.73 min Scan# 1677
Delta R.T. -0.07 min
Lab File: VU036294.D
Acq: 19 Dec 2019 19:45

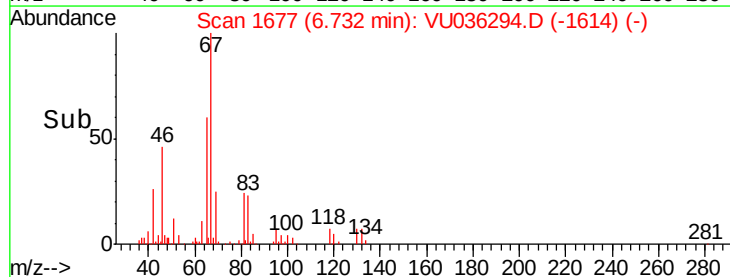
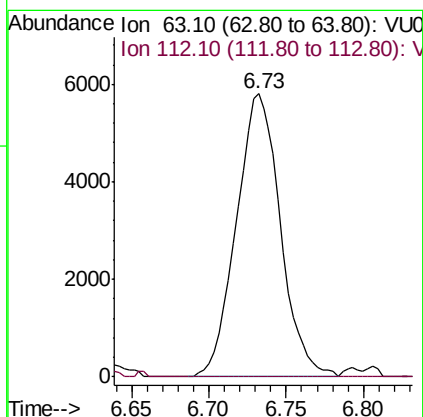
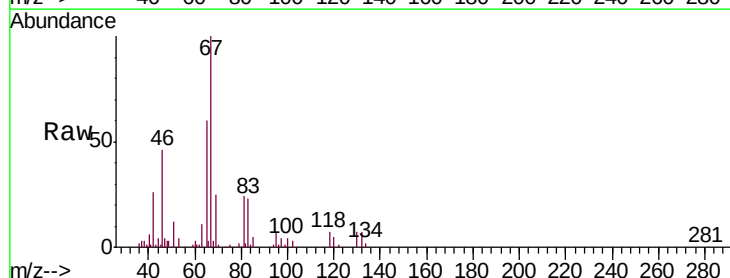
Instrument :
MSVOA_U
ClientSampleId :
BFDW9

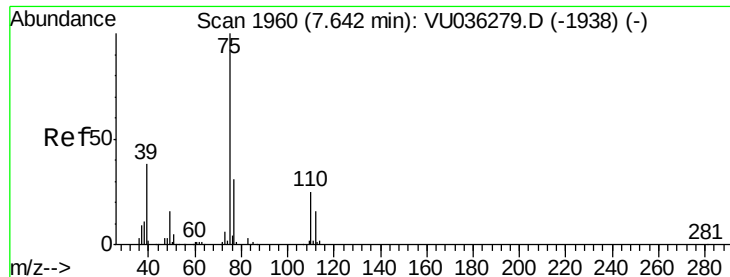
Tgt Ion: 83 Resp: 23485
Ion Ratio Lower Upper
83 100
55 0.7 62.6 94.0#
98 0.0 36.2 54.2#



#37
1,2-Dichloropropane
Concen: 0.498 ug/L
RT: 6.73 min Scan# 1677
Delta R.T. -0.10 min
Lab File: VU036294.D
Acq: 19 Dec 2019 19:45

Tgt Ion: 63 Resp: 11469
Ion Ratio Lower Upper
63 100
112 0.4 3.8 5.8#

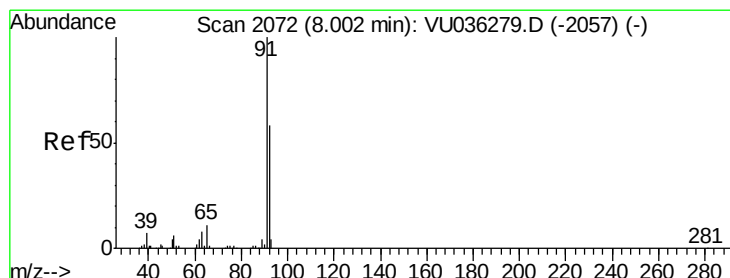
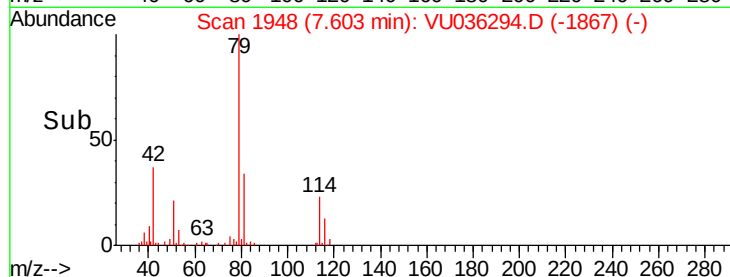
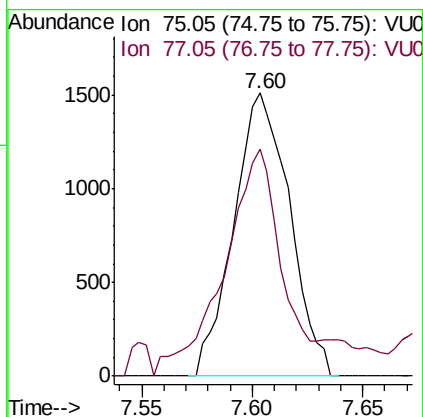
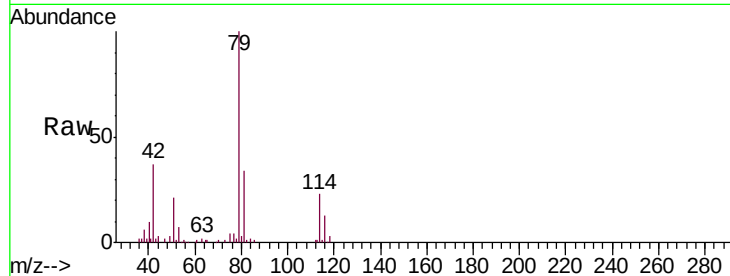




#39
 cis-1,3-Dichloropropene
 Concen: 0.085 ug/L
 RT: 7.60 min Scan# 1948
 Delta R.T. -0.04 min
 Lab File: VU036294.D
 Acq: 19 Dec 2019 19:45

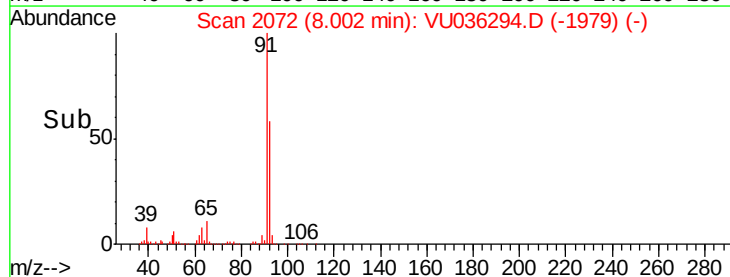
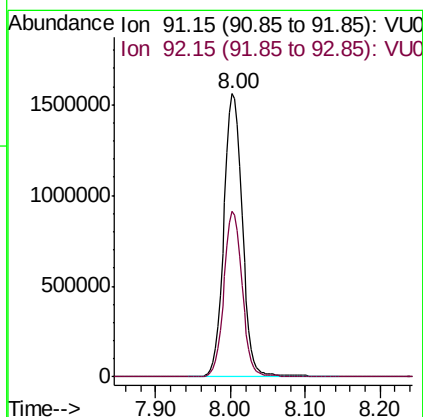
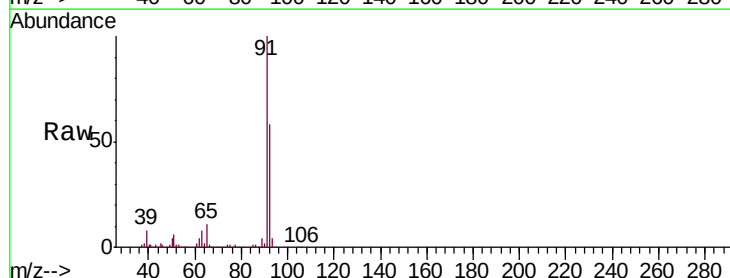
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDW9

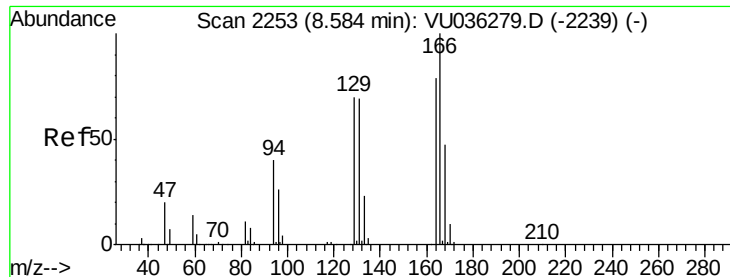
Tgt Ion: 75 Resp: 2656
 Ion Ratio Lower Upper
 75 100
 77 80.3 22.7 42.1#



#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

Tgt Ion: 91 Resp: 2674410
 Ion Ratio Lower Upper
 91 100
 92 58.5 41.2 76.6





#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

Instrument :

MSVOA_U

ClientSampled :

BFDW9

Tgt Ion:164 Resp: 7169

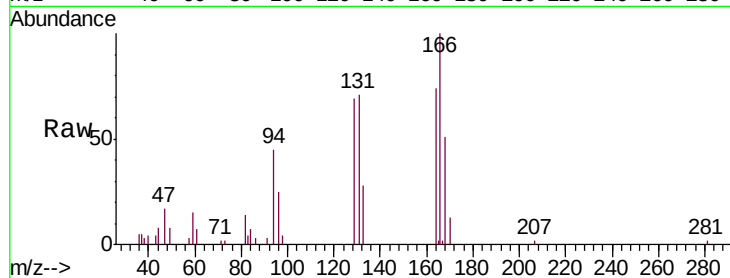
Ion Ratio Lower Upper

164 100

129 93.4 64.2 119.2

131 95.8 66.6 123.8

166 135.5 93.1 172.9

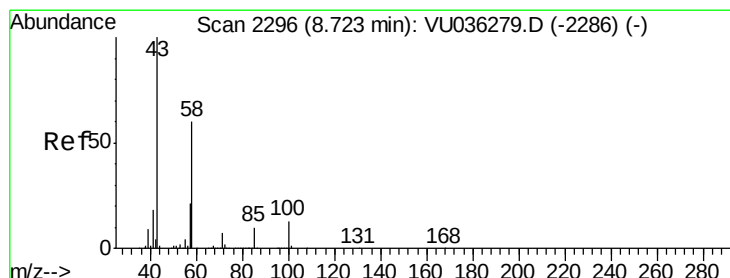
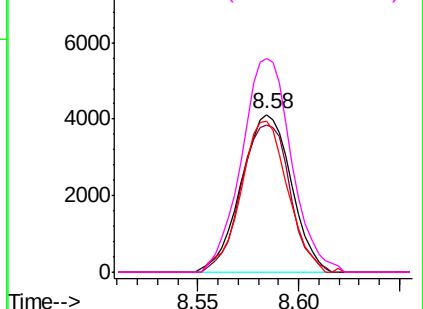
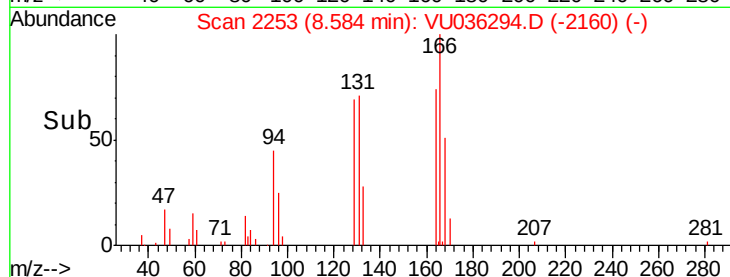


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.387 ug/L

RT: 8.67 min Scan# 2280

Delta R.T. -0.05 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

Tgt Ion: 43 Resp: 21482

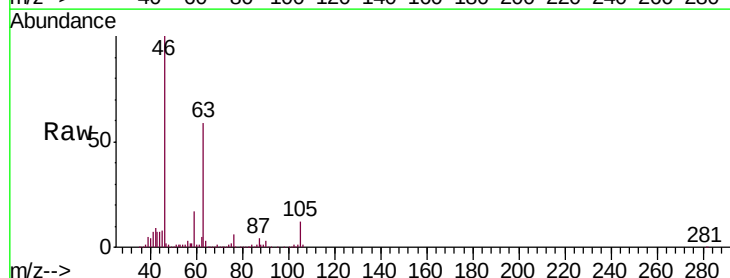
Ion Ratio Lower Upper

43 100

58 33.3 46.2 69.2#

57 32.8 16.2 24.4#

100 1.0 10.2 15.4#

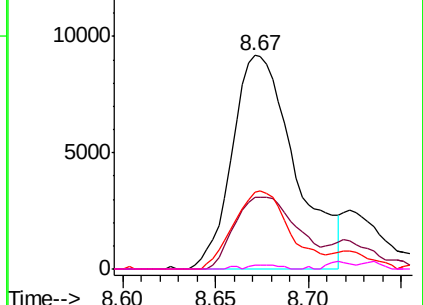
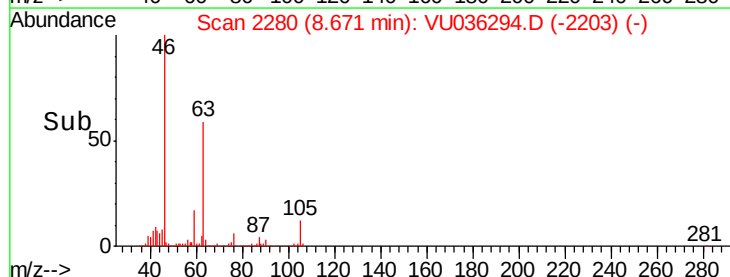


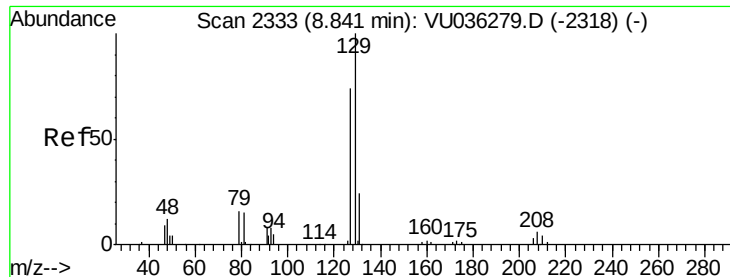
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.307 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU036294.D

Acq: 19 Dec 2019 19:45

Instrument :

MSVOA_U

ClientSampled :

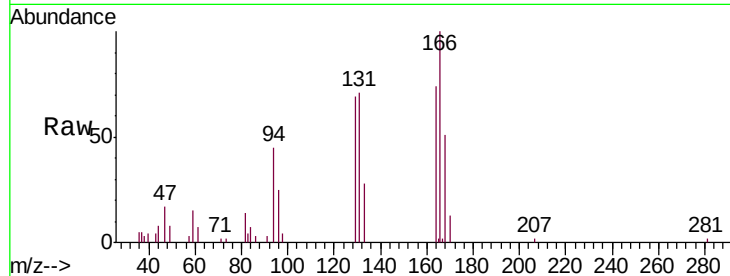
BFDW9

Tgt Ion:129 Resp: 6560

Ion Ratio Lower Upper

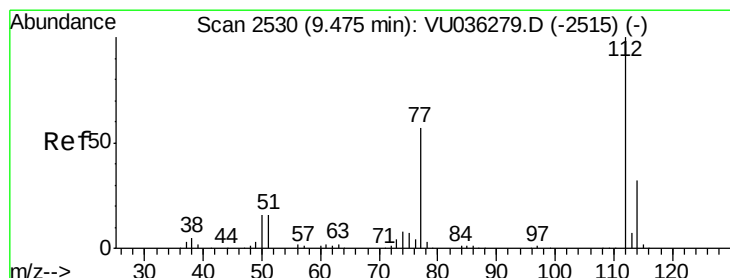
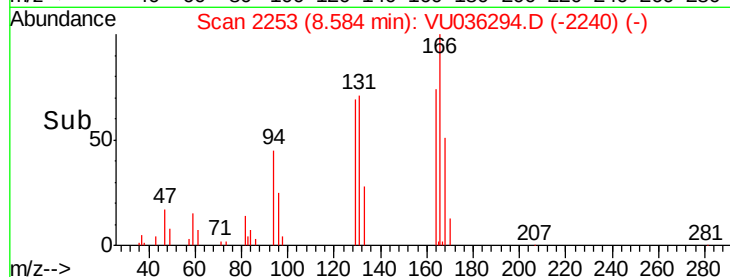
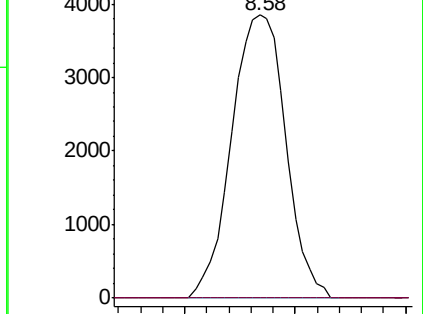
129 100

127 0.0 52.6 97.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#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

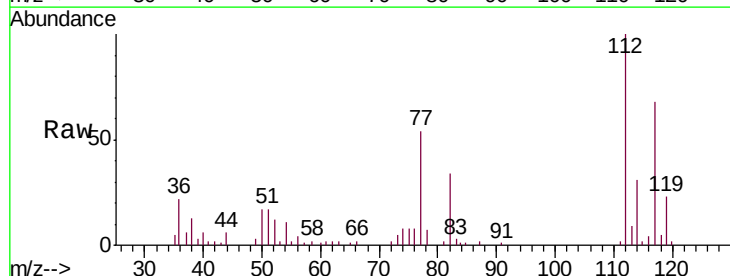
Tgt Ion:112 Resp: 18819

Ion Ratio Lower Upper

112 100

114 30.8 23.2 43.2

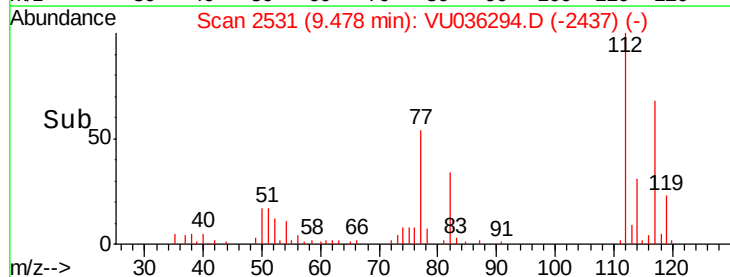
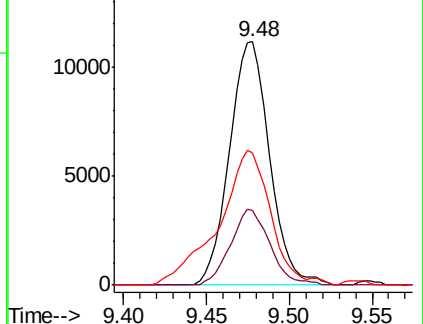
77 54.2 46.5 69.7

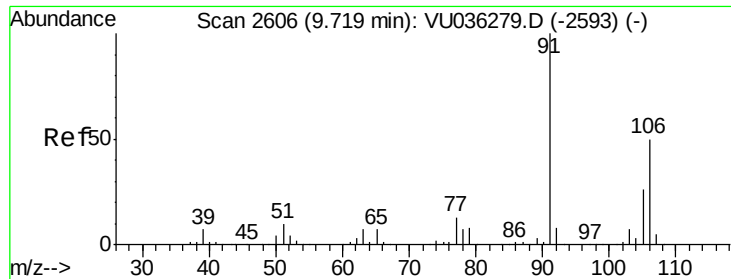


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0





#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

Instrument :

MSVOA_U

ClientSampleId :

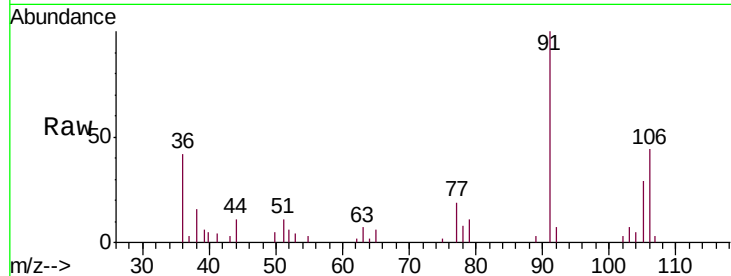
BFDW9

Tgt Ion:106 Resp: 4012

Ion Ratio Lower Upper

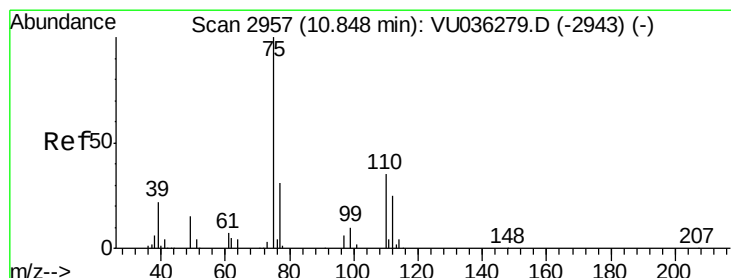
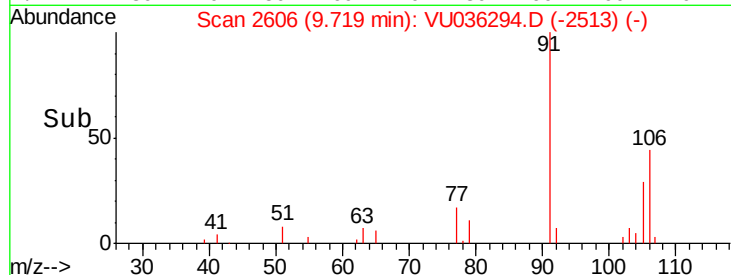
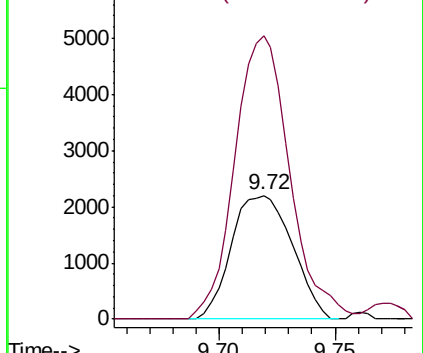
106 100

91 228.4 138.7 257.7



Abundance Ion 106.15 (105.85 to 106.85): VU036279.D (-2593) (-)

Ion 91.15 (90.85 to 91.85): VU036279.D (-2593) (-)



#59

1,2,3-Trichloropropane

Concen: 2.291 ug/L

RT: 11.86 min Scan# 3271

Delta R.T. 1.01 min

Lab File: VU036294.D

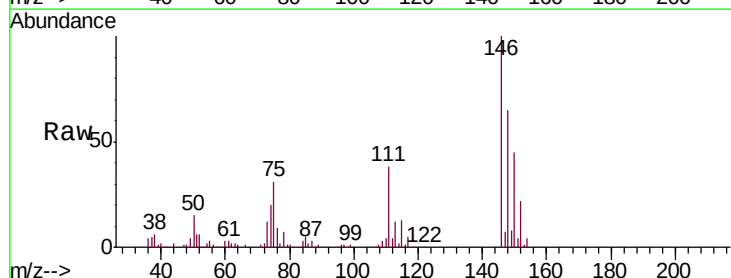
Acq: 19 Dec 2019 19:45

Tgt Ion: 75 Resp: 35099

Ion Ratio Lower Upper

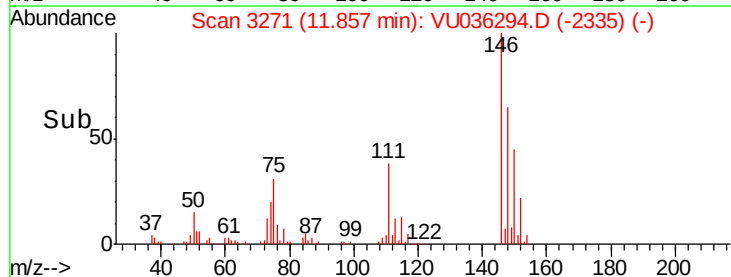
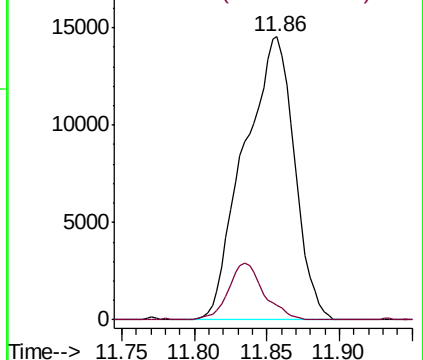
75 100

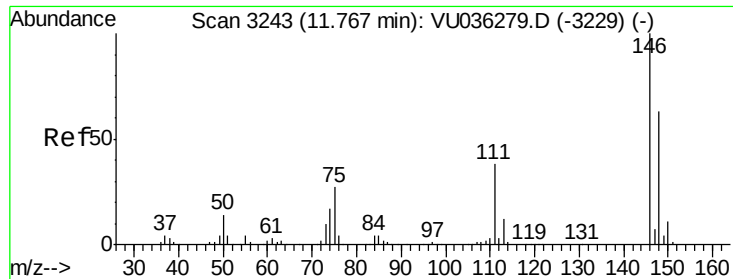
77 14.1 27.2 40.8#



Abundance Ion 75.00 (74.70 to 75.70): VU036279.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU036279.D (-2943) (-)

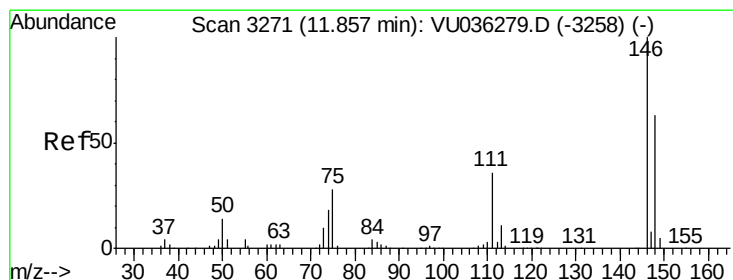
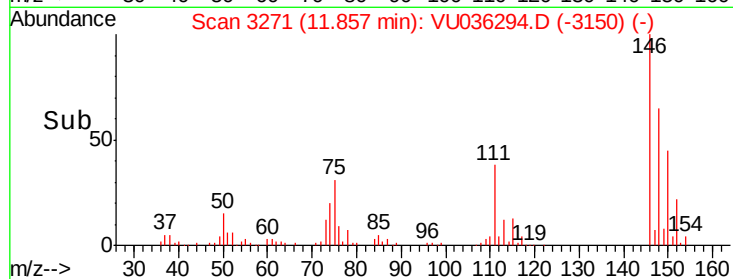
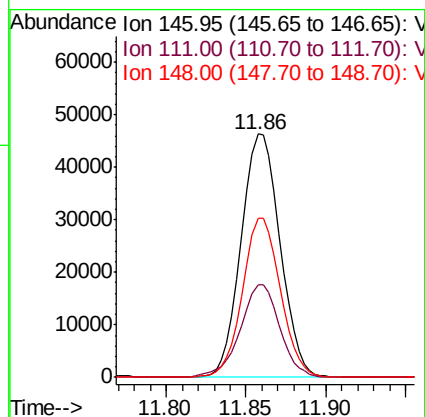
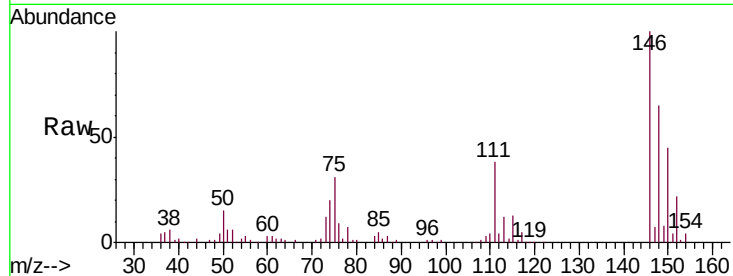




#62
 1,3-Dichlorobenzene
 Concen: 1.886 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. 0.09 min
 Lab File: VU036294.D
 Acq: 19 Dec 2019 19:45

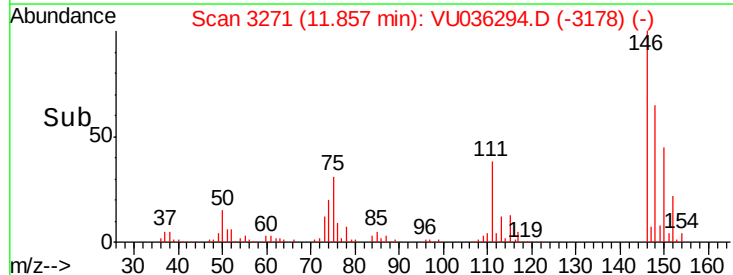
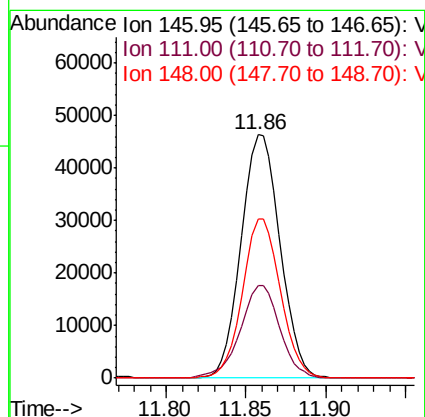
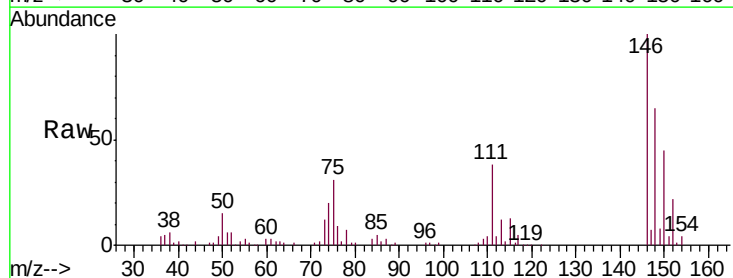
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDW9

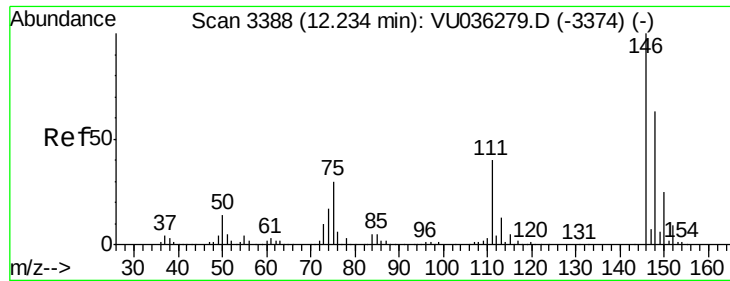
Tgt Ion:146 Resp: 76907
 Ion Ratio Lower Upper
 146 100
 111 37.9 26.3 48.9
 148 65.2 45.1 83.9



#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

Tgt Ion:146 Resp: 76907
 Ion Ratio Lower Upper
 146 100
 111 37.9 25.8 48.0
 148 65.2 44.7 82.9

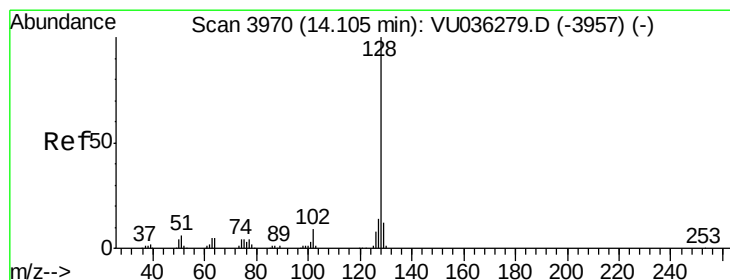
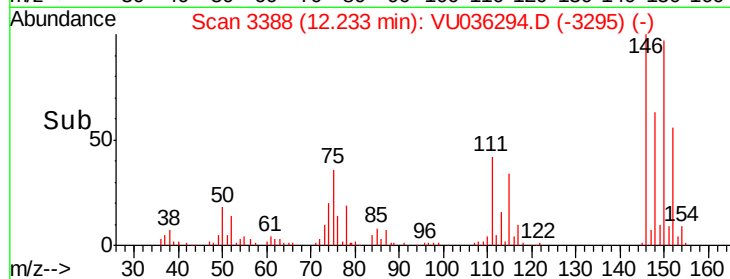
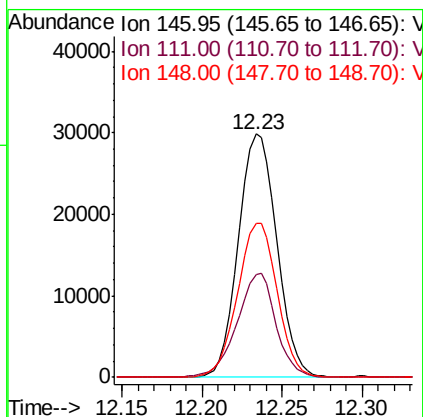
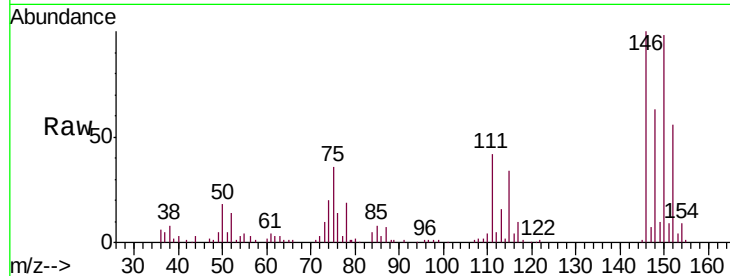




#65
1,2-Dichlorobenzene
Concen: 1.257 ug/L
RT: 12.23 min Scan# 3388
Delta R.T. -0.00 min
Lab File: VU036294.D
Acq: 19 Dec 2019 19:45

Instrument :
MSVOA_U
ClientSampleId :
BFDW9

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



#69
Naphthalene
Concen: 0.916 ug/L
RT: 14.10 min Scan# 3970
Delta R.T. -0.00 min
Lab File: VU036294.D
Acq: 19 Dec 2019 19:45

Tgt Ion:128 Resp: 23395
Ion Ratio Lower Upper
128 100
129 10.4 8.4 12.6
127 16.6 11.5 17.3

