

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102619\
 Data File : VU035510.D
 Acq On : 26 Oct 2019 11:42
 Operator : JC/SP
 Sample : VSTD00535
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 30 01:26:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102619WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Oct 30 01:21:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	541358	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	522922	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	167861	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	21064	4.60	ug/L	0.00
7) Chloroethane-d5	1.94	69	17814	4.65	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.60	63	34786	4.58	ug/L	0.00
21) 2-Butanone-d5	4.70	46	24730	8.13	ug/L	0.00
24) Chloroform-d	5.11	84	35343	4.76	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	22554	4.65	ug/L	0.00
32) Benzene-d6	5.77	84	69375	4.66	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.74	67	22024	4.60	ug/L	0.00
41) Toluene-d8	7.93	98	60071	4.29	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.22	79	9459	3.90	ug/L	0.00
47) 2-Hexanone-d5	8.70	63	12644	6.11	ug/L	0.03
57) 1,1,2,2-Tetrachloroethane-	10.79	84	31594	4.48	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	18650	4.93	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	24163	5.398 ug/L	98
3) Chloromethane	1.54	50	25218	5.399 ug/L	99
5) Vinyl chloride	1.62	62	27426	5.689 ug/L #	69
6) Bromomethane	1.88	94	12549	4.593 ug/L	94
8) Chloroethane	1.96	64	16772	5.693 ug/L	92
9) Trichlorofluoromethane	2.16	101	32288	5.412 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	19333	5.570 ug/L	97
12) 1,1-Dichloroethene	2.61	96	17098	5.083 ug/L	97
13) Acetone	2.67	43	30983	11.125 ug/L	97
14) Carbon disulfide	2.83	76	58426	5.464 ug/L	98
15) Methyl Acetate	3.00	43	22254	5.257 ug/L	99
16) Methylene chloride	3.09	84	21749	5.402 ug/L	95
17) trans-1,2-Dichloroethene	3.40	96	17887	4.957 ug/L	95
18) Methyl tert-butyl Ether	3.42	73	53179	4.664 ug/L	99
19) 1,1-Dichloroethane	3.92	63	37710	5.416 ug/L	98
20) cis-1,2-Dichloroethene	4.72	96	19905	4.860 ug/L	98
22) 2-Butanone	4.78	43	32966	9.666 ug/L	96
23) Bromochloromethane	5.02	128	10492	5.100 ug/L	98
25) Chloroform	5.14	83	38139	5.358 ug/L	94
27) 1,2-Dichloroethane	5.84	62	29199	5.307 ug/L	97
29) Cyclohexane	5.43	56	27640	4.676 ug/L	99
30) 1,1,1-Trichloroethane	5.36	97	29113	5.031 ug/L	98
31) Carbon tetrachloride	5.57	117	25578	5.058 ug/L	99
33) Benzene	5.82	78	78082	5.174 ug/L	100
34) Trichloroethene	6.58	95	20126	5.255 ug/L	96
35) Methylcyclohexane	6.80	83	24694	4.235 ug/L	96
37) 1,2-Dichloropropane	6.84	63	21796	5.540 ug/L	98
38) Bromodichloromethane	7.14	83	26909	5.168 ug/L	96
39) cis-1,3-Dichloropropene	7.65	75	26607	4.231 ug/L	98
40) 4-Methyl-2-pentanone	7.85	43	55601	9.639 ug/L	99

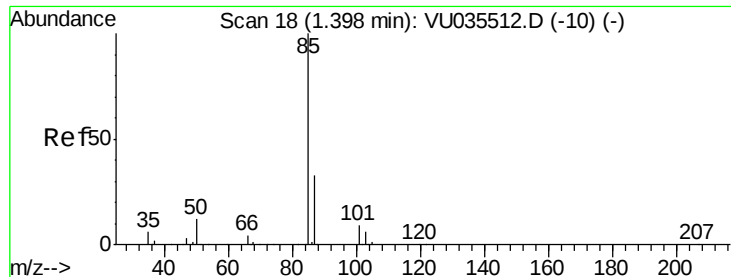
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102619\
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 Quant Title : VOC Analysis
 QLast Update : Wed Oct 30 01:21:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.01	91	76955	4.695	ug/L	99
44) trans-1,3-Dichloropropene	8.25	75	27117	4.641	ug/L	98
45) 1,1,2-Trichloroethane	8.44	97	20377	5.314	ug/L	96
46) Tetrachloroethene	8.58	164	15526	5.036	ug/L	98
49) Dibromochloromethane	8.84	129	20183	4.743	ug/L	94
50) 1,2-Dibromoethane	8.96	107	19723	4.688	ug/L #	98
51) Chlorobenzene	9.48	112	52219	4.903	ug/L	97
52) Ethylbenzene	9.60	91	77604	4.277	ug/L	100
53) m,p-Xylene	9.73	106	28199	4.188	ug/L	96
54) o-xylene	10.13	106	26663	4.024	ug/L	97
55) Styrene	10.15	104	40072	3.712	ug/L	99
56) Isopropylbenzene	10.51	105	65801	3.859	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.81	83	34742	5.186	ug/L	98
59) 1,2,3-Trichloropropane	10.85	75	27779	5.222	ug/L	98
61) Bromoform	10.32	173	15714	6.526	ug/L	96
62) 1,3-Dichlorobenzene	11.78	146	28942	5.310	ug/L	97
63) 1,4-Dichlorobenzene	11.87	146	31034	5.678	ug/L	98
65) 1,2-Dichlorobenzene	12.24	146	31163	5.723	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	4873	5.634	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	13779	4.618	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	7763	3.994	ug/L	96
69) Naphthalene	14.11	128	17835	3.316	ug/L	98
70) 1,2,3-Trichlorobenzene	14.35	180	8377	4.164	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 5.398 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Instrument :

MSVOA_U

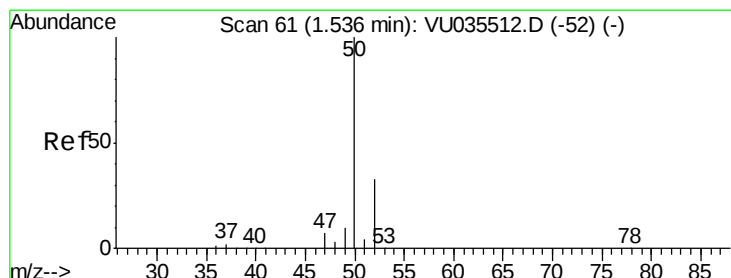
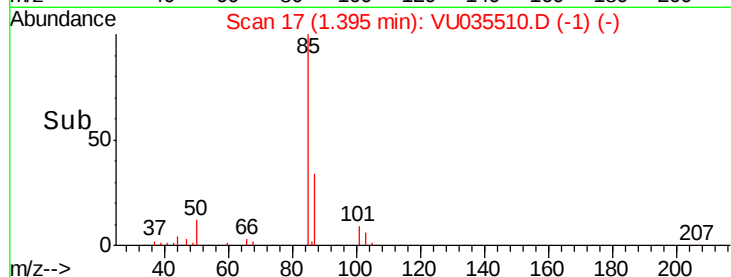
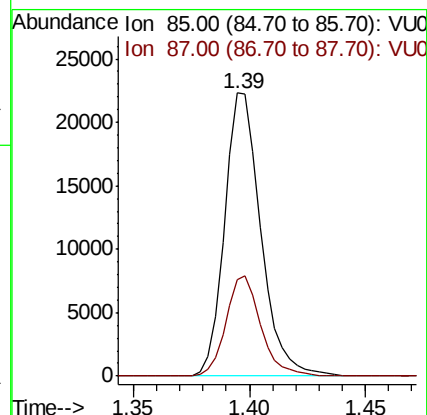
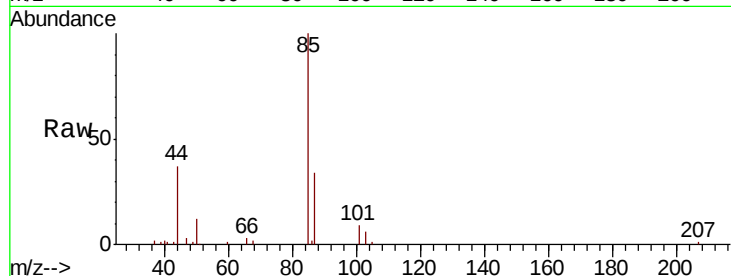
ClientSampleId :

Tot Ion: 85 Resp: 24163

Ion Ratio Lower Upper

85 100

87 33.9 26.2 39.2



#3

Chloromethane

Concen: 5.399 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU035510.D

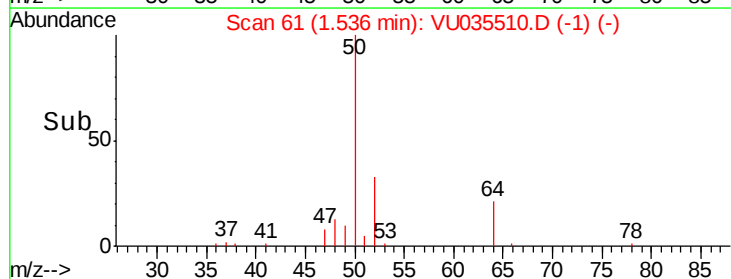
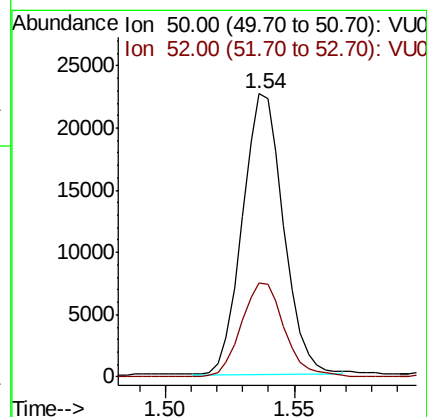
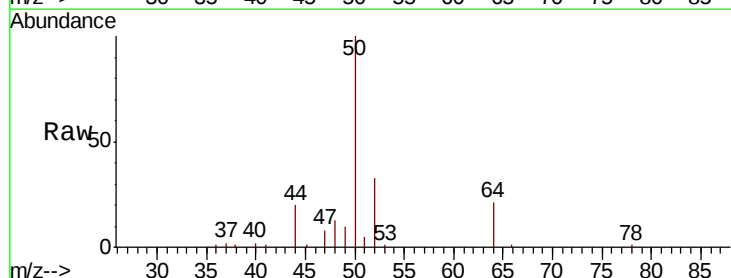
Acq: 26 Oct 2019 11:42

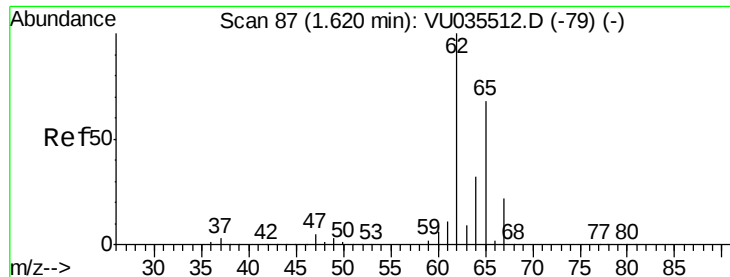
Tgt Ion: 50 Resp: 25218

Ion Ratio Lower Upper

50 100

52 33.1 22.7 42.3





#5

Vinyl chloride

Concen: 5.689 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

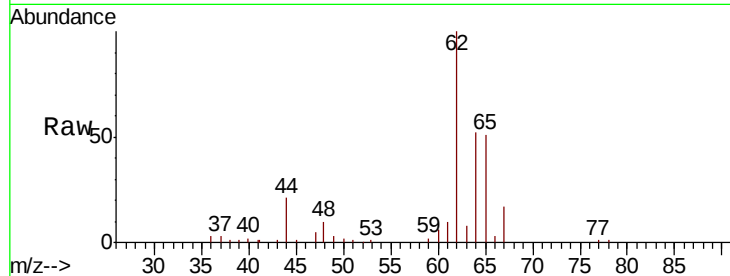
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 27426

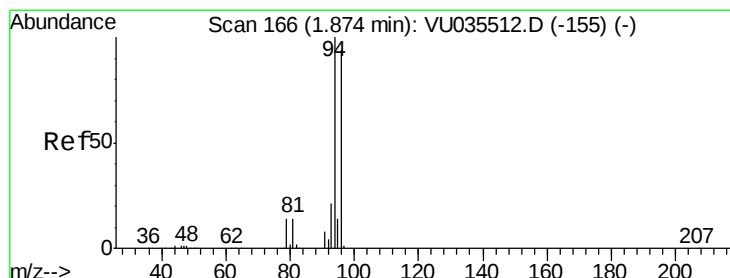
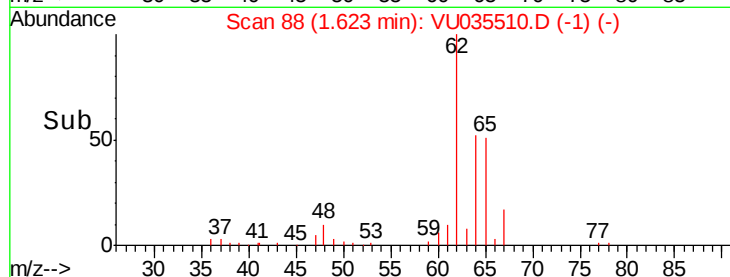
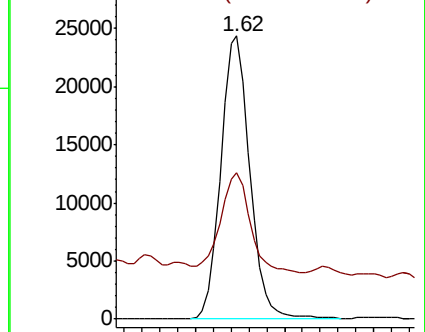
Ion Ratio Lower Upper

62 100

64 52.0 23.8 44.2#



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 4.593 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU035510.D

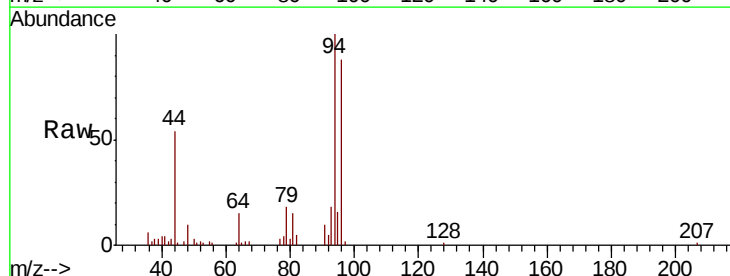
Acq: 26 Oct 2019 11:42

Tgt Ion: 94 Resp: 12549

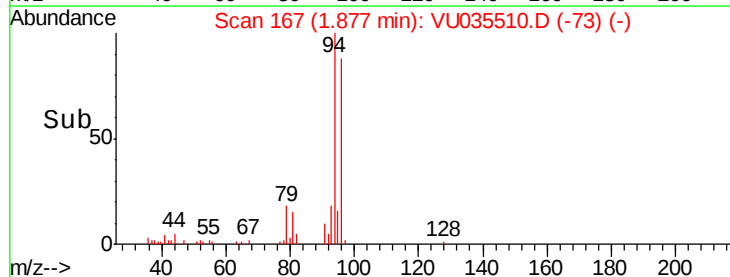
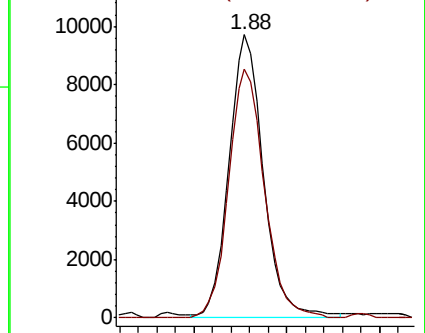
Ion Ratio Lower Upper

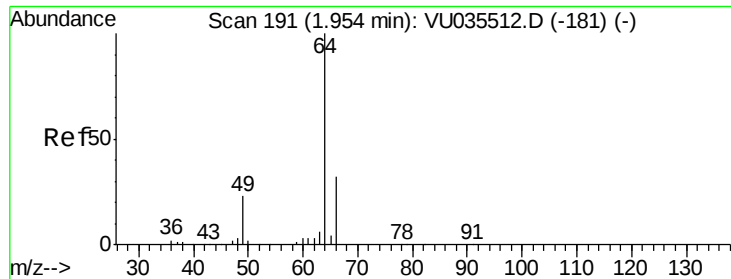
94 100

96 88.0 65.7 121.9



Abundance Ion 94.00 (93.70 to 94.70): VU0
Ion 96.00 (95.70 to 96.70): VU0

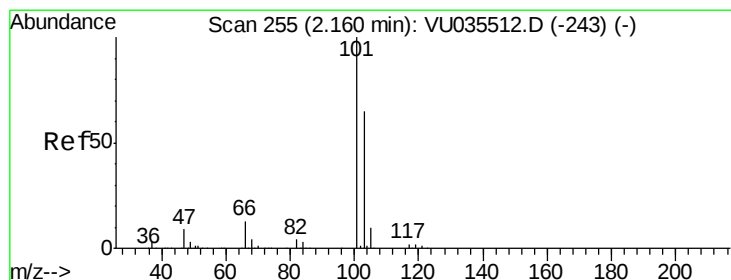
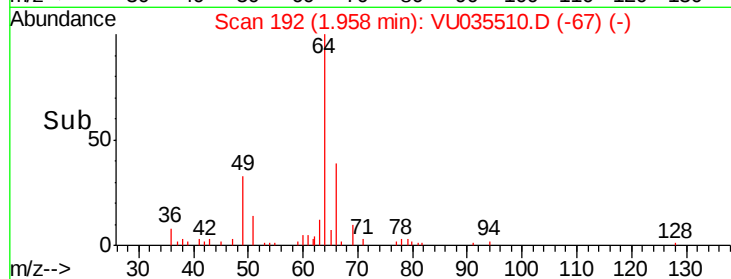
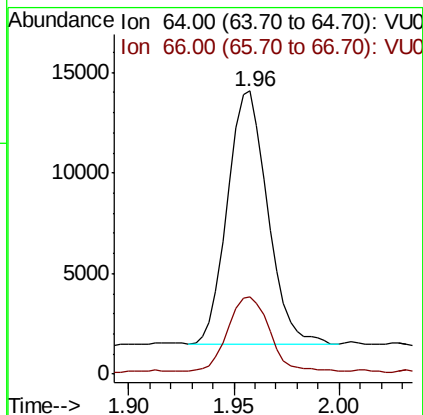
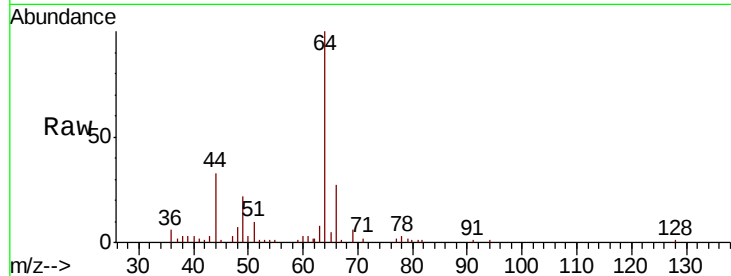




#8
Chloroethane
Concen: 5.693 ug/L
RT: 1.96 min Scan# 192
Delta R.T. 0.00 min
Lab File: VU035510.D
Acq: 26 Oct 2019 11:42

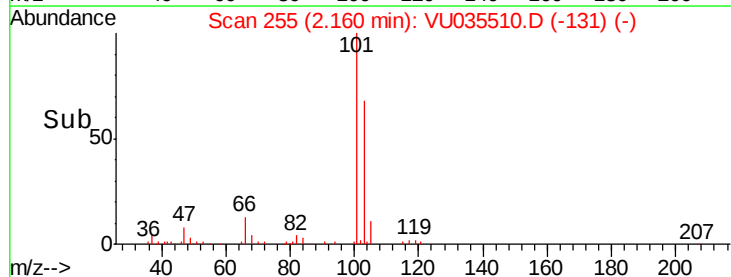
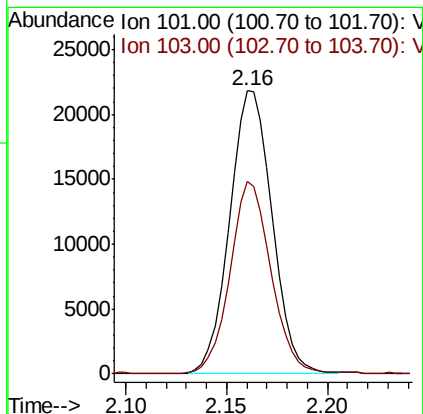
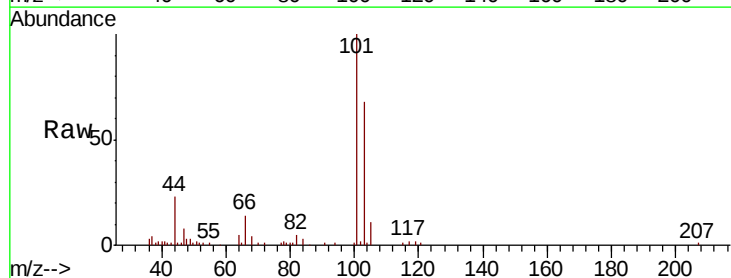
Instrument :
MSVOA_U
ClientSampleId :

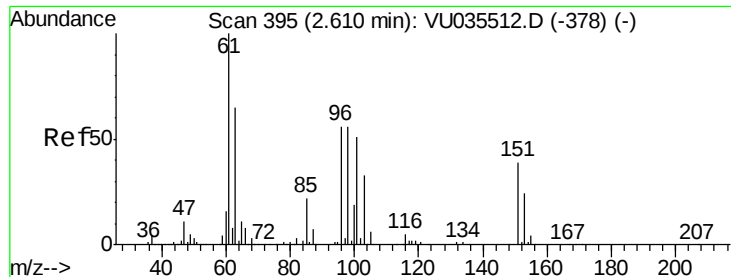
Tot Ion: 64 Resp: 16772
Ion Ratio Lower Upper
64 100
66 27.2 22.3 41.5



#9
Trichlorofluoromethane
Concen: 5.412 ug/L
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU035510.D
Acq: 26 Oct 2019 11:42

Tgt Ion:101 Resp: 32288
Ion Ratio Lower Upper
101 100
103 65.4 51.7 77.5





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.570 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

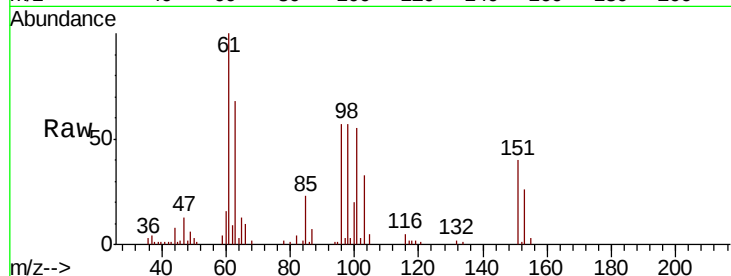
Tot Ion:101 Resp: 19333

Ion Ratio Lower Upper

101 100

85 41.9 34.6 52.0

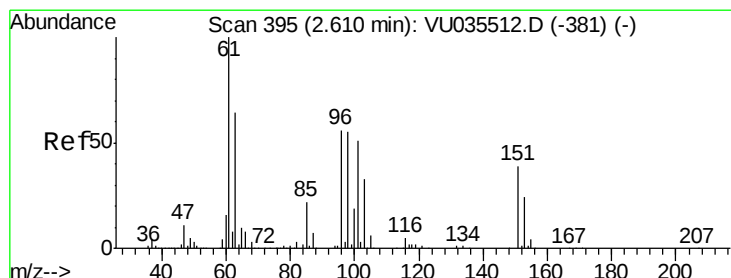
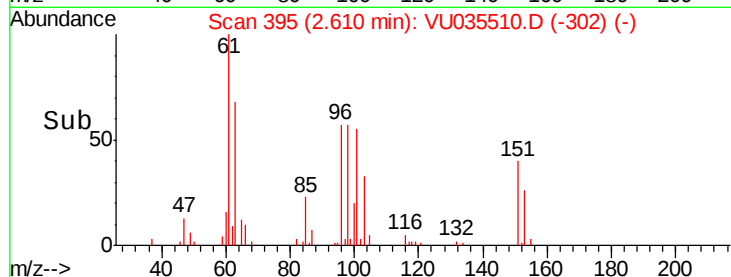
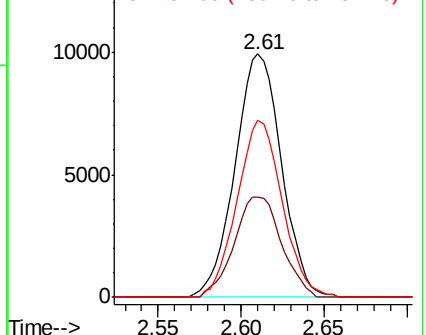
151 70.6 58.6 88.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.083 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

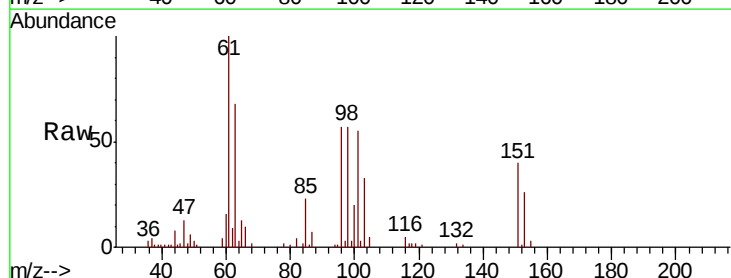
Tgt Ion: 96 Resp: 17098

Ion Ratio Lower Upper

96 100

61 174.9 125.2 232.4

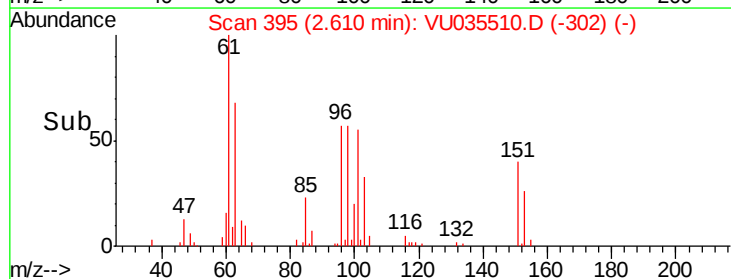
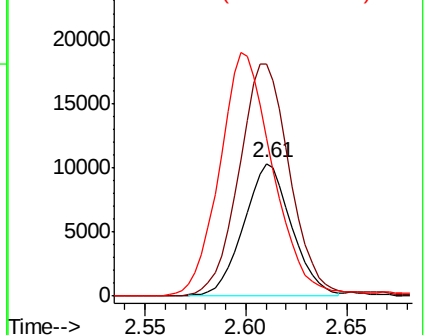
63 119.4 81.8 151.8

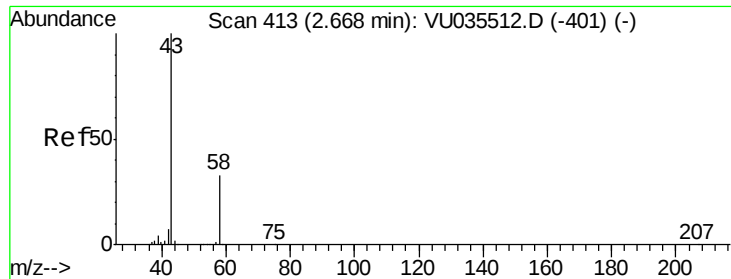


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 11.125 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

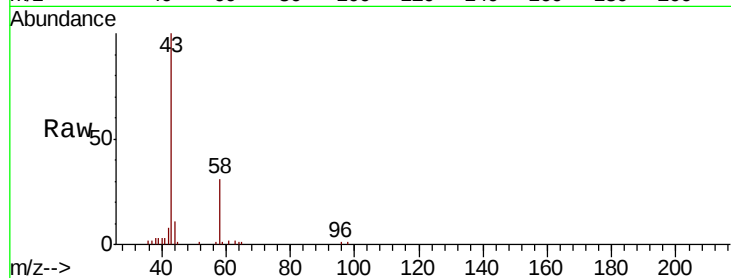
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 30983

Ion Ratio Lower Upper

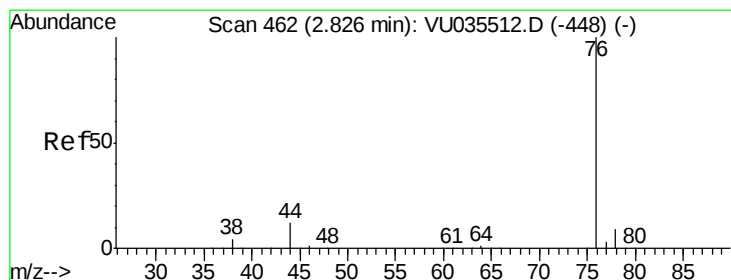
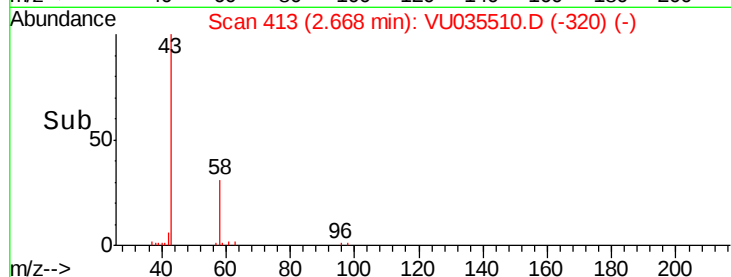
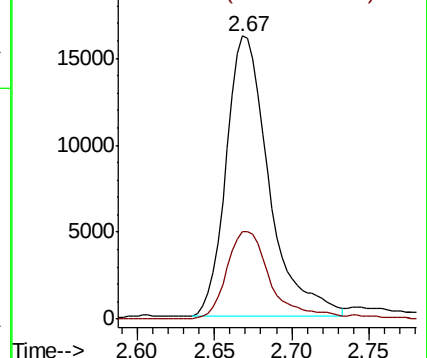
43 100

58 31.4 0.0 66.6



Abundance Ion 43.00 (42.70 to 43.70): VU035510.D (-320) (-)

Ion 58.00 (57.70 to 58.70): VU035510.D (-320) (-)



#14

Carbon disulfide

Concen: 5.464 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU035510.D

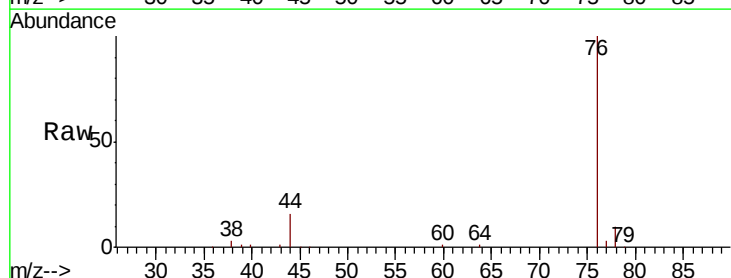
Acq: 26 Oct 2019 11:42

Tgt Ion: 76 Resp: 58426

Ion Ratio Lower Upper

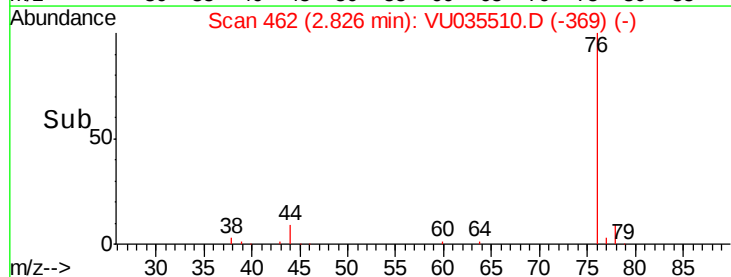
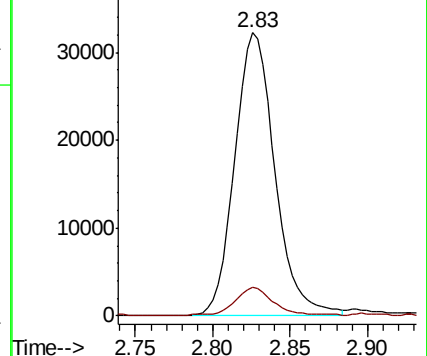
76 100

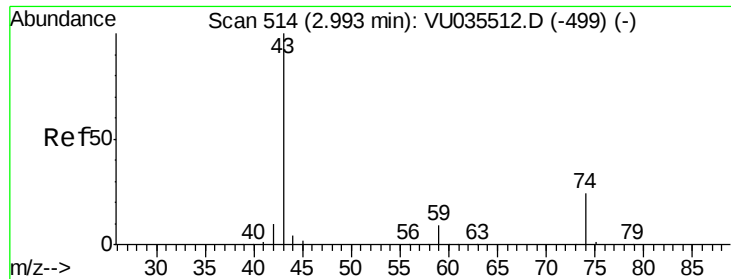
78 10.1 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU035510.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VU035510.D (-369) (-)

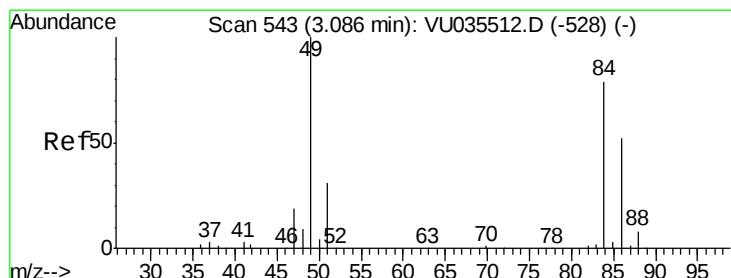
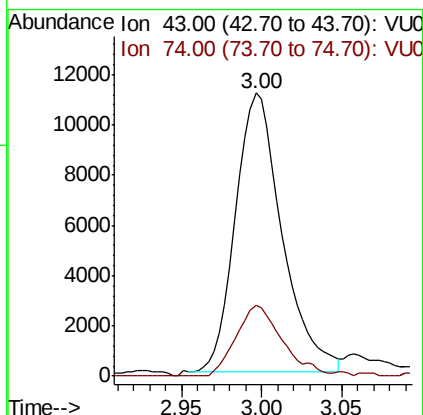
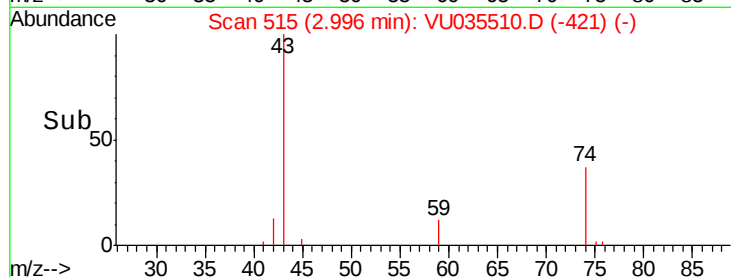
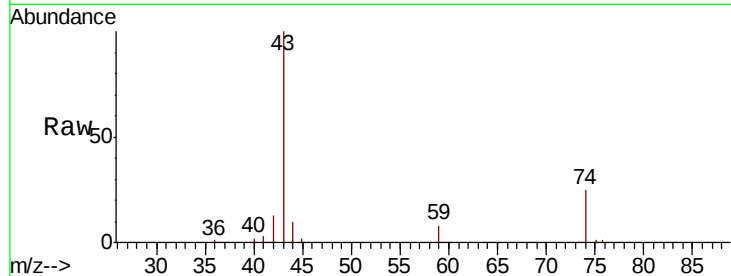




#15
Methyl Acetate
Concen: 5.257 ug/L
RT: 3.00 min Scan# 515
Delta R.T. 0.00 min
Lab File: VU035510.D
Acq: 26 Oct 2019 11:42

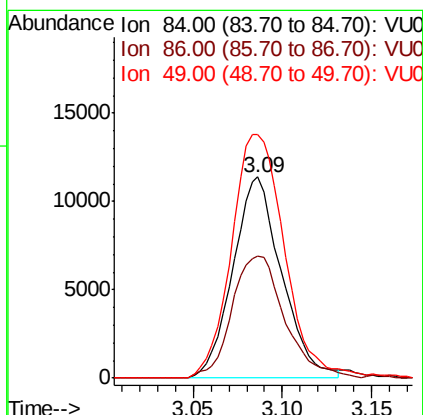
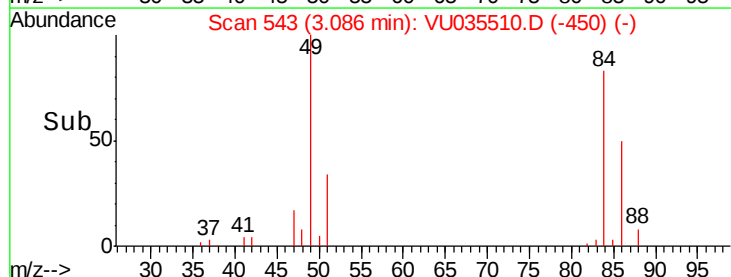
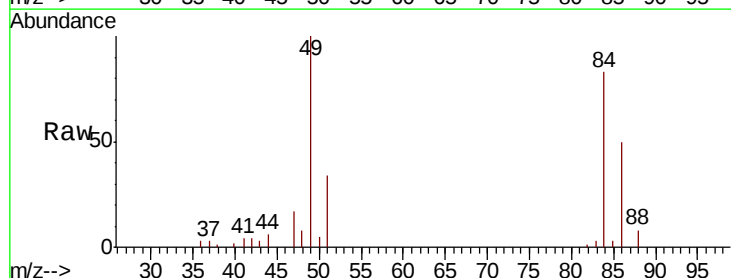
Instrument :
MSVOA_U
ClientSampleId :

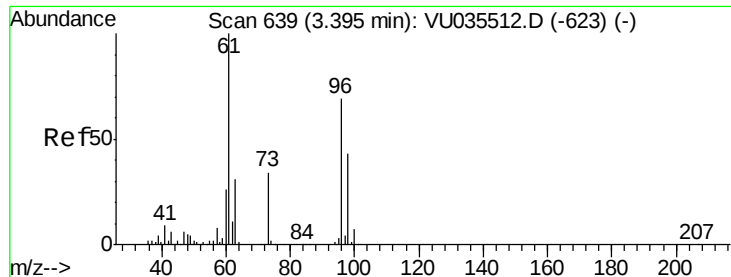
Tot Ion: 43 Resp: 22254
Ion Ratio Lower Upper
43 100
74 23.4 19.0 28.6



#16
Methylene chloride
Concen: 5.402 ug/L
RT: 3.09 min Scan# 543
Delta R.T. 0.00 min
Lab File: VU035510.D
Acq: 26 Oct 2019 11:42

Tgt Ion: 84 Resp: 21749
Ion Ratio Lower Upper
84 100
86 61.0 45.5 84.5
49 121.0 88.3 163.9





#17

trans-1,2-Dichloroethene

Concen: 4.957 ug/L

RT: 3.40 min Scan# 640

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Instrument :

MSVOA_U

ClientSampled :

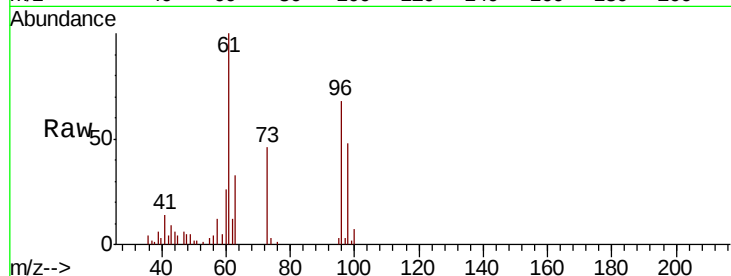
Tot Ion: 96 Resp: 17887

Ion Ratio Lower Upper

96 100

61 147.4 101.2 188.0

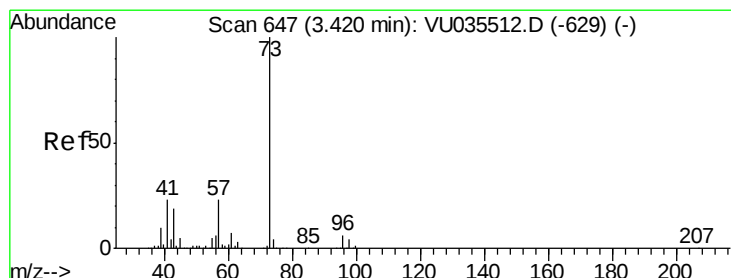
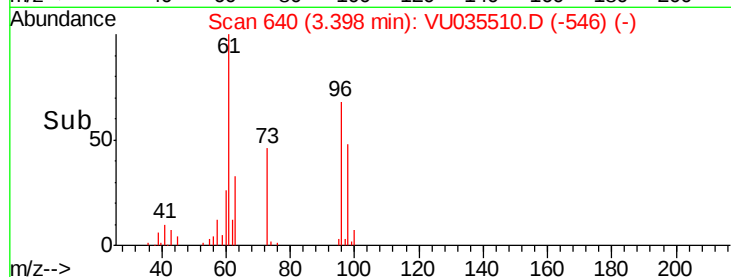
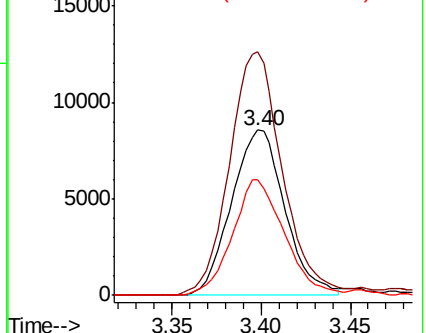
98 70.1 43.6 81.0



Abundance Ion 96.00 (95.70 to 96.70): VU035510.D (-546) (-)

Ion 61.00 (60.70 to 61.70): VU035510.D (-546) (-)

Ion 98.00 (97.70 to 98.70): VU035510.D (-546) (-)



#18

Methyl tert-butyl Ether

Concen: 4.664 ug/L

RT: 3.42 min Scan# 647

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

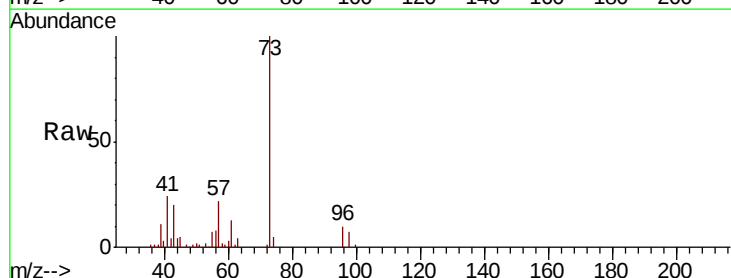
Tgt Ion: 73 Resp: 53179

Ion Ratio Lower Upper

73 100

43 19.8 15.2 22.8

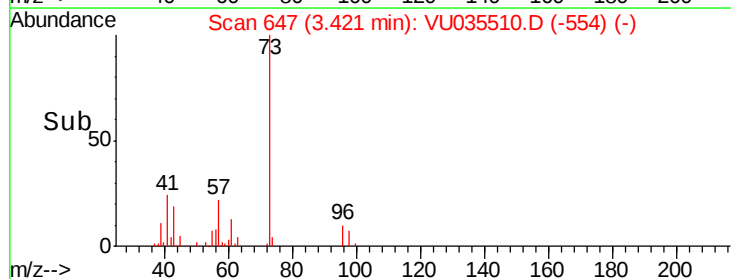
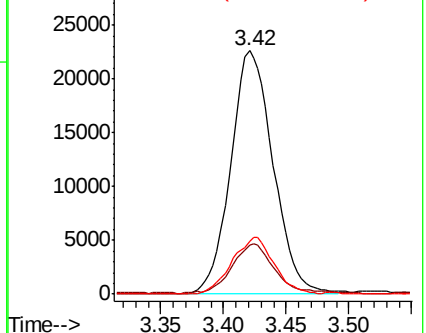
57 23.0 18.7 28.1

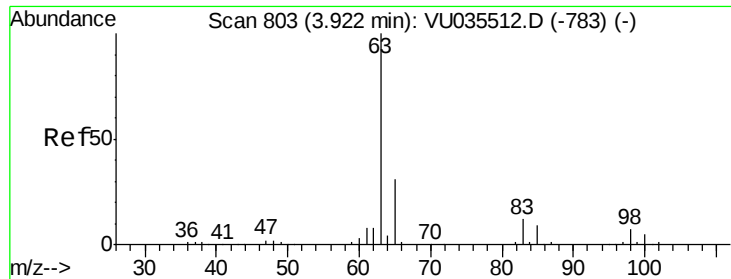


Abundance Ion 73.00 (72.70 to 73.70): VU035510.D (-554) (-)

Ion 43.00 (42.70 to 43.70): VU035510.D (-554) (-)

Ion 57.00 (56.70 to 57.70): VU035510.D (-554) (-)

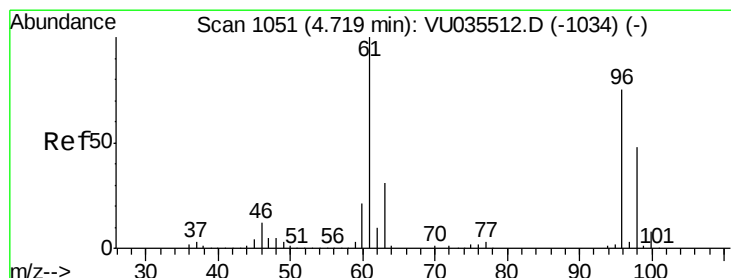
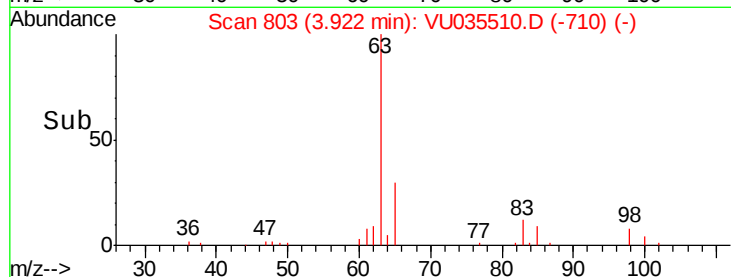
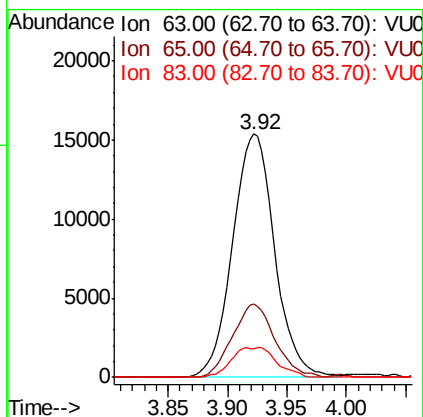
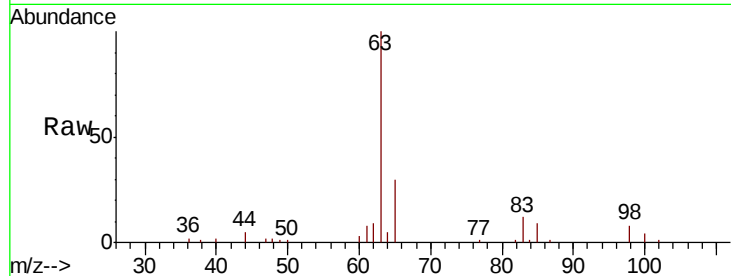




#19
 1,1-Dichloroethane
 Concen: 5.416 ug/L
 RT: 3.92 min Scan# 803
 Delta R.T. 0.00 min
 Lab File: VU035510.D
 Acq: 26 Oct 2019 11:42

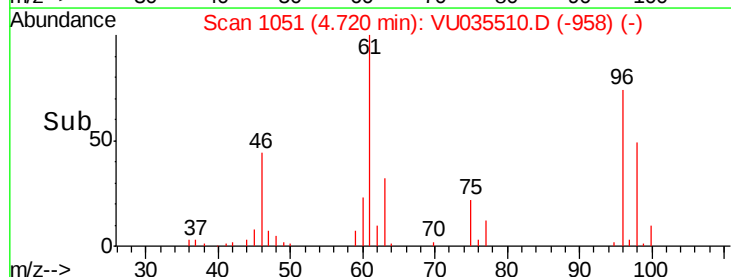
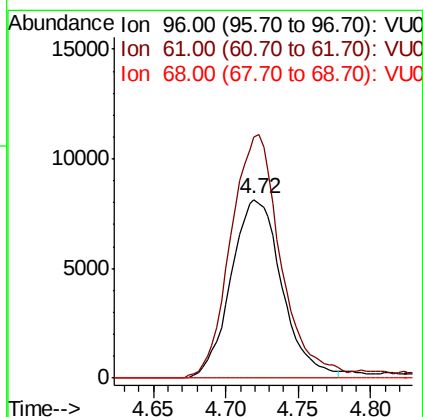
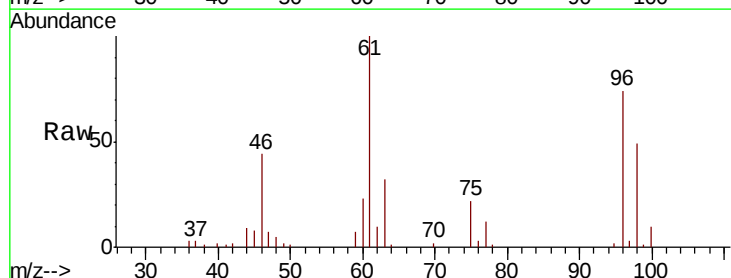
Instrument :
 MSVOA_U
 ClientSampleId :

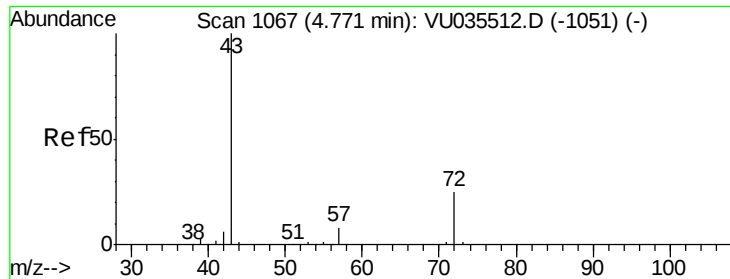
Tot Ion: 63 Resp: 37710
 Ion Ratio Lower Upper
 63 100
 65 30.1 21.7 40.3
 83 11.9 8.7 16.1



#20
 cis-1,2-Dichloroethene
 Concen: 4.860 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VU035510.D
 Acq: 26 Oct 2019 11:42

Tgt Ion: 96 Resp: 19905
 Ion Ratio Lower Upper
 96 100
 61 135.2 93.0 172.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 9.666 ug/L

RT: 4.78 min Scan# 1069

Delta R.T. 0.01 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

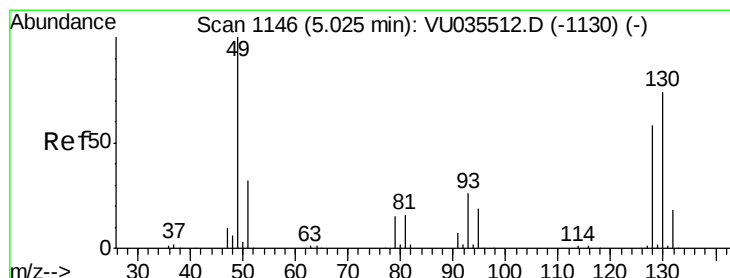
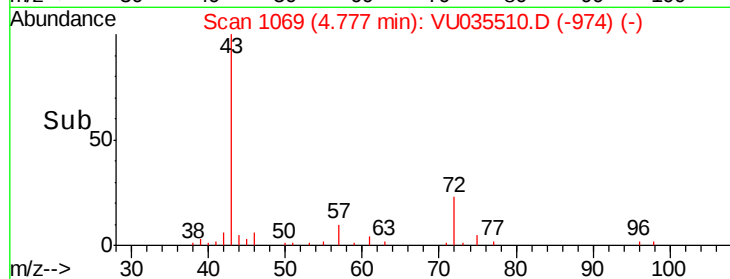
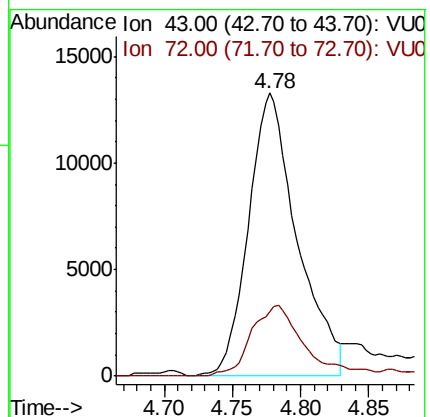
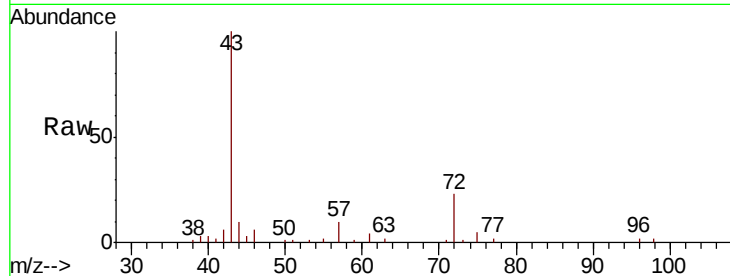
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 32966

Ion Ratio Lower Upper

43 100

72 24.6 13.4 40.1



#23

Bromochloromethane

Concen: 5.100 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Tgt Ion: 128 Resp: 10492

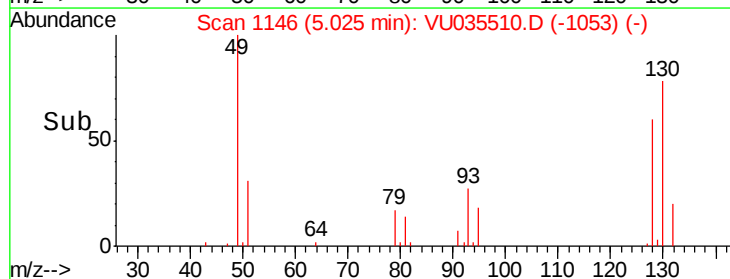
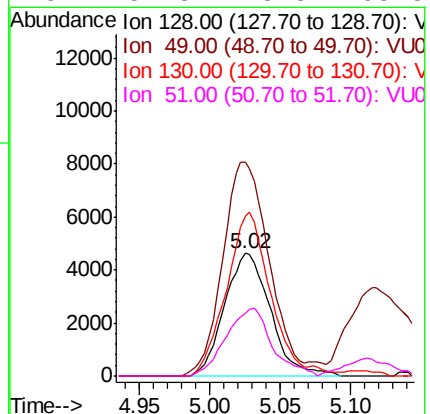
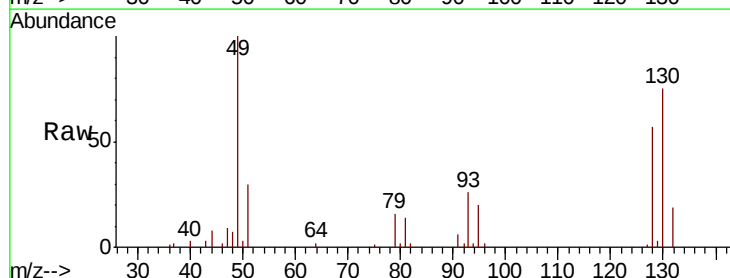
Ion Ratio Lower Upper

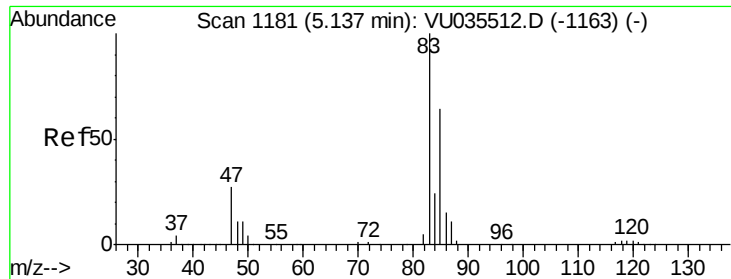
128 100

49 174.0 121.1 224.9

130 130.7 89.0 165.2

51 51.3 43.8 65.8

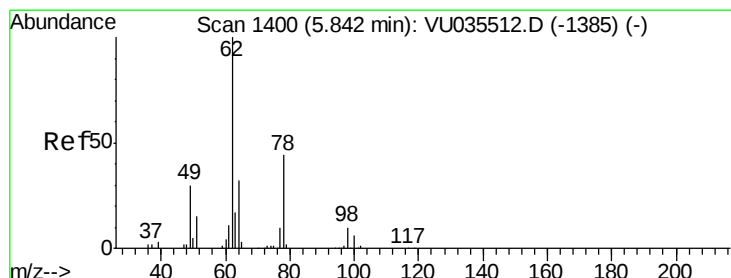
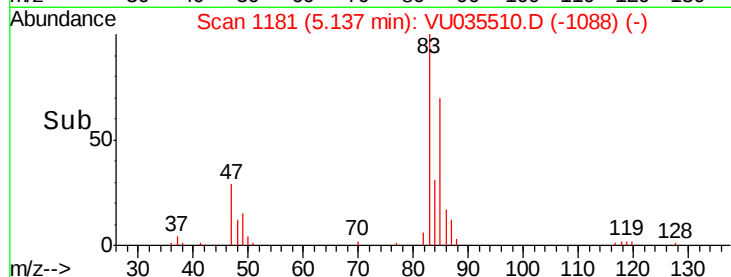
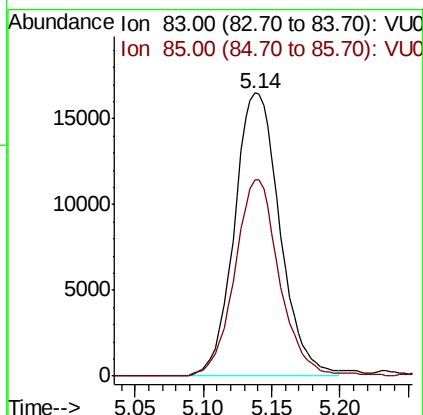
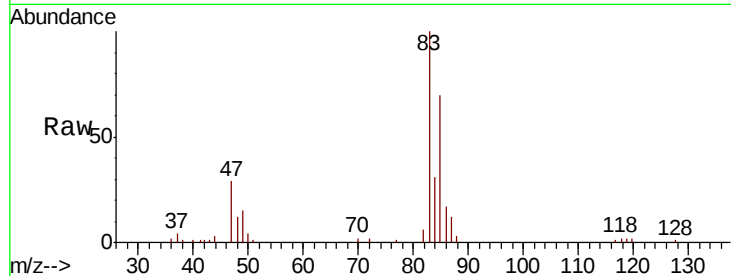




#25
Chloroform
Concen: 5.358 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU035510.D
Acq: 26 Oct 2019 11:42

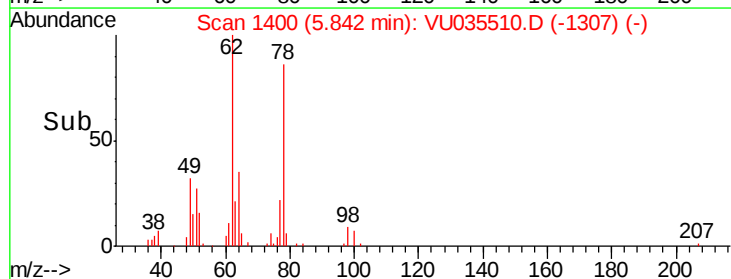
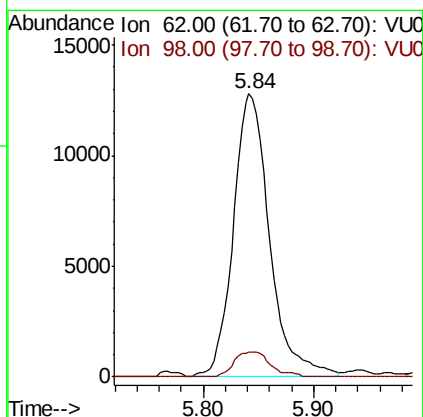
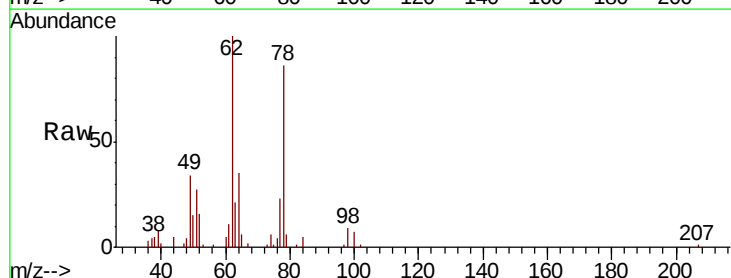
Instrument :
MSVOA_U
ClientSampleId :

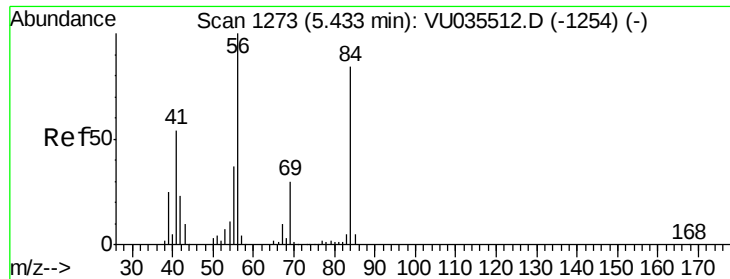
Tot Ion: 83 Resp: 38139
Ion Ratio Lower Upper
83 100
85 69.5 45.1 83.9



#27
1,2-Dichloroethane
Concen: 5.307 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VU035510.D
Acq: 26 Oct 2019 11:42

Tgt Ion: 62 Resp: 29199
Ion Ratio Lower Upper
62 100
98 8.6 7.8 11.6

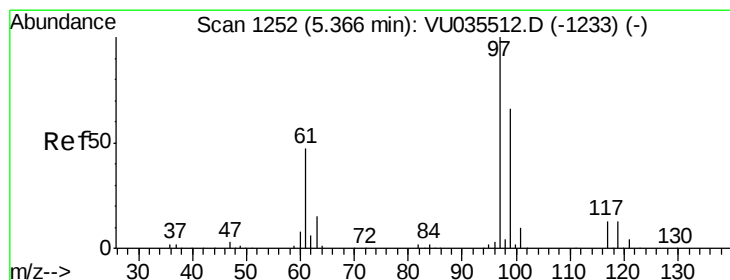
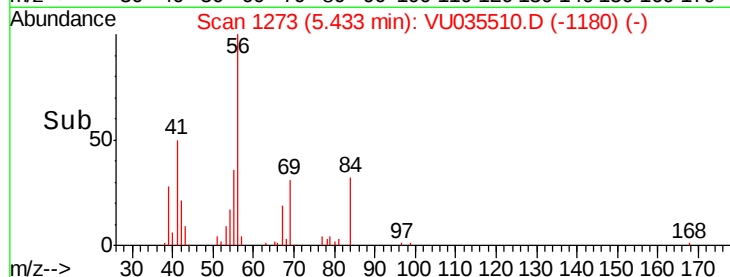
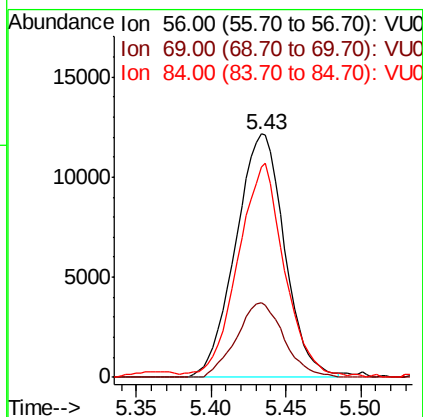
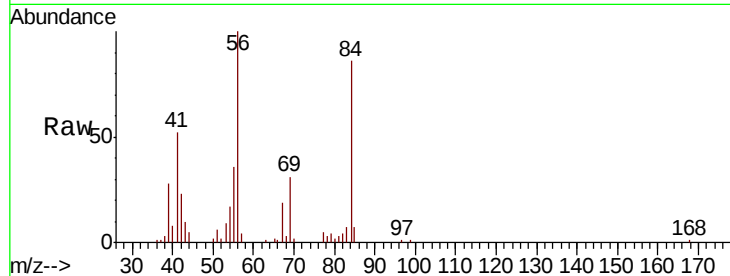




#29
Cyclohexane
Concen: 4.676 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VU035510.D
Acq: 26 Oct 2019 11:42

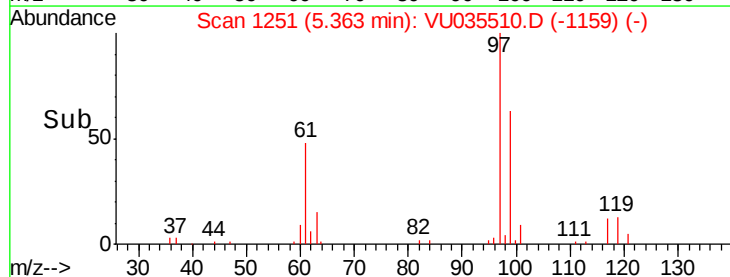
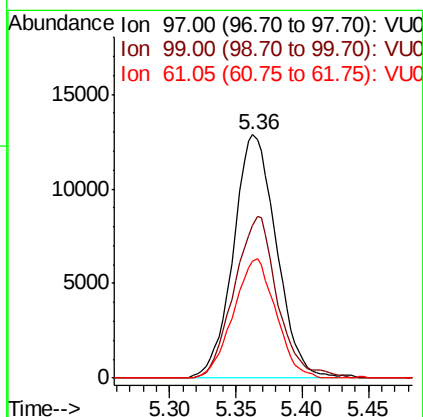
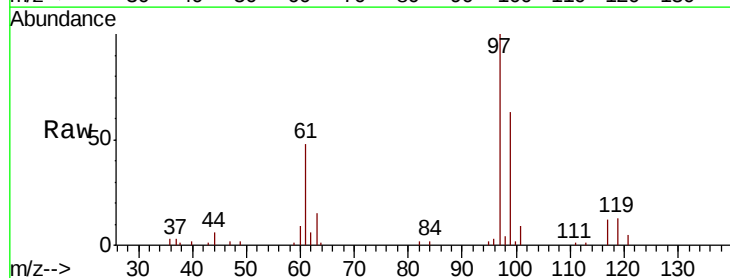
Instrument :
MSVOA_U
ClientSampled :

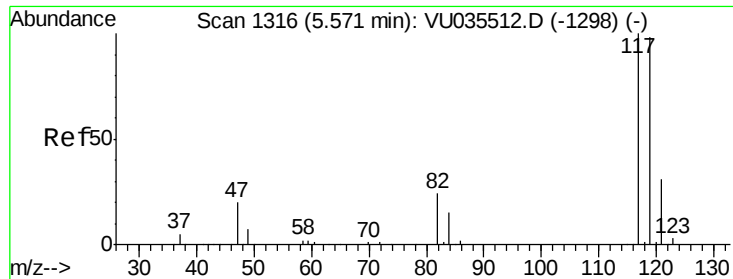
Tot Ion: 56 Resp: 27640
Ion Ratio Lower Upper
56 100
69 29.7 23.7 35.5
84 83.8 67.7 101.5



#30
1,1,1-Trichloroethane
Concen: 5.031 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU035510.D
Acq: 26 Oct 2019 11:42

Tgt Ion: 97 Resp: 29113
Ion Ratio Lower Upper
97 100
99 65.3 51.6 77.4
61 48.3 37.3 55.9





#31

Carbon tetrachloride

Concen: 5.058 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Instrument :

MSVOA_U

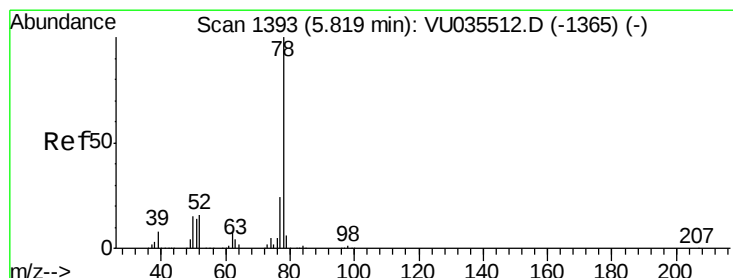
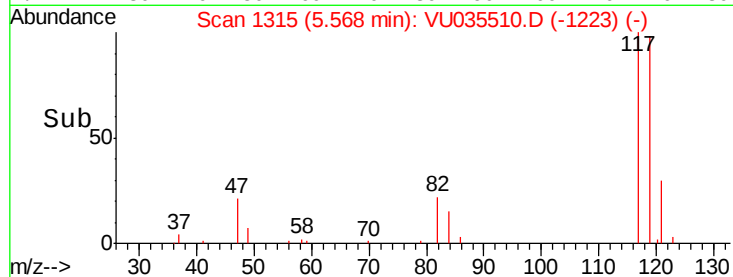
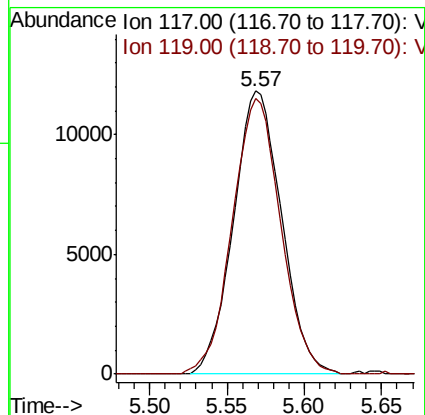
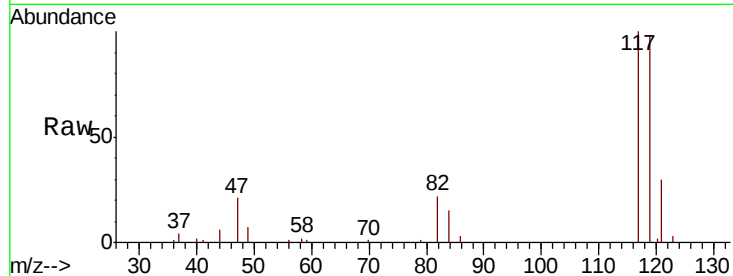
ClientSampleId :

Tot Ion:117 Resp: 25578

Ion Ratio Lower Upper

117 100

119 98.0 77.8 116.6



#33

Benzene

Concen: 5.174 ug/L

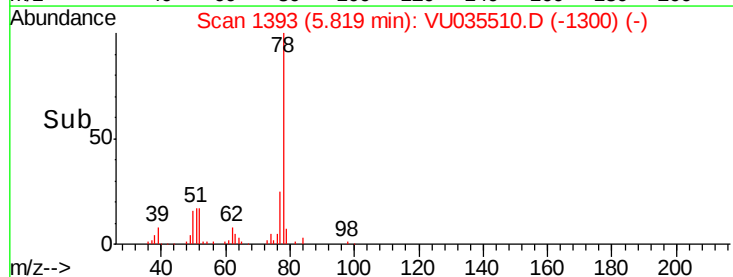
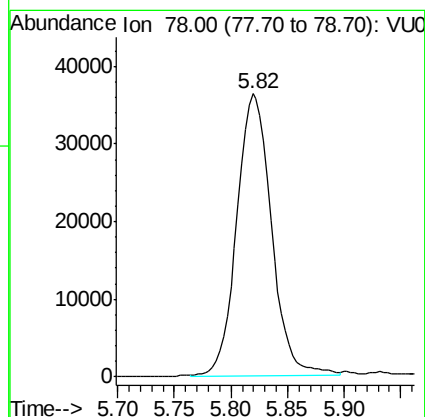
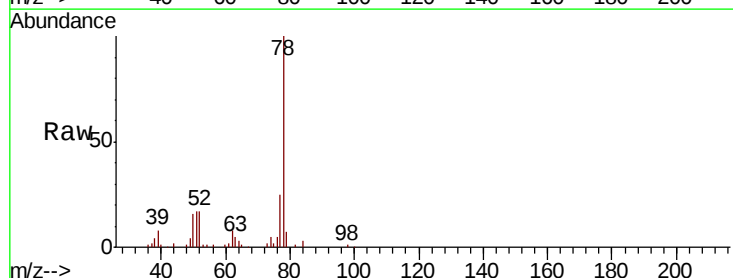
RT: 5.82 min Scan# 1393

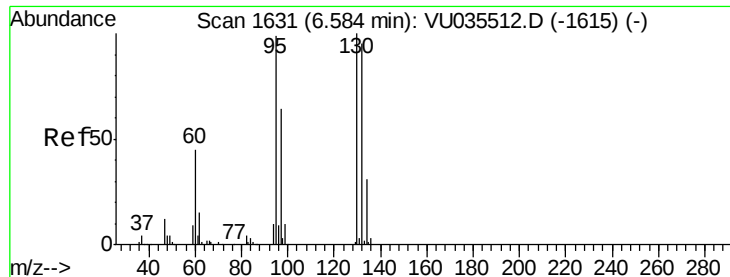
Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Tgt Ion: 78 Resp: 78082





#34

Trichloroethene

Concen: 5.255 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 20126

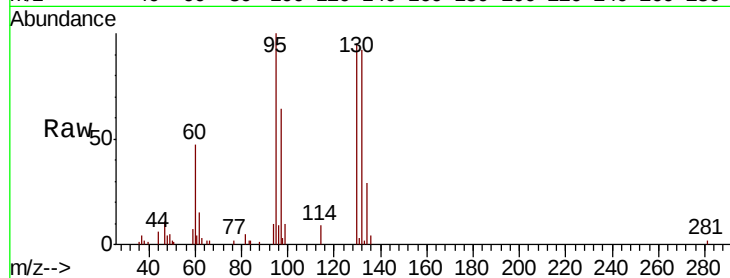
Ion Ratio Lower Upper

95 100

97 64.0 45.1 83.7

132 91.9 67.2 124.8

130 95.3 70.6 131.0

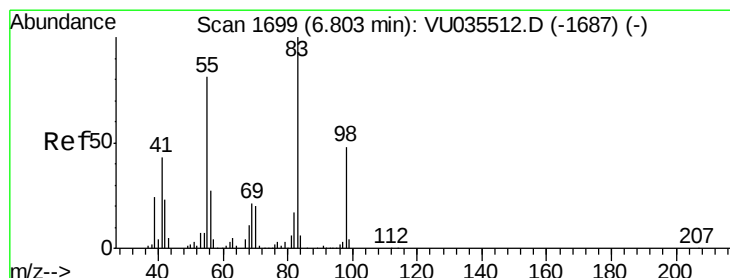
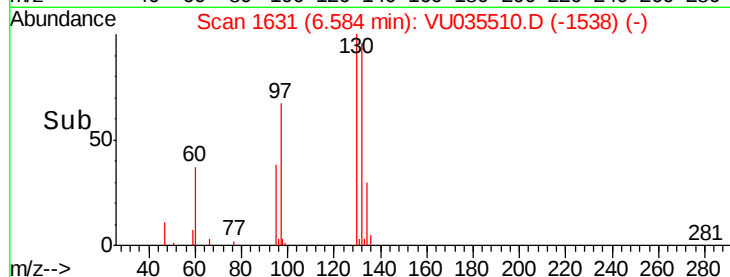
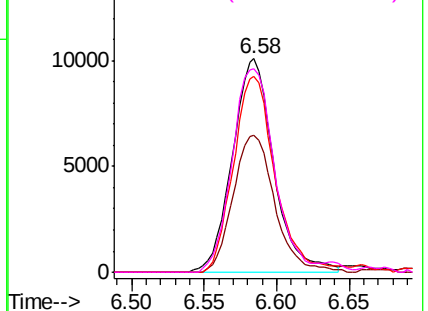


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 4.235 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

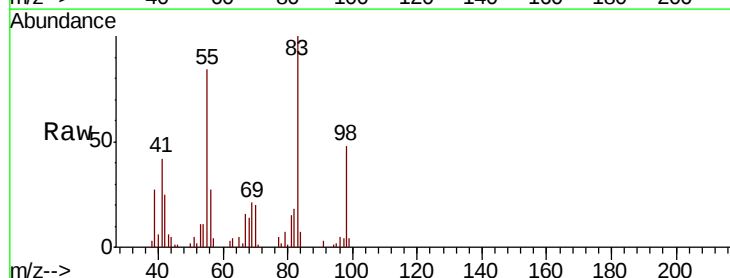
Tgt Ion: 83 Resp: 24694

Ion Ratio Lower Upper

83 100

55 86.3 65.1 97.7

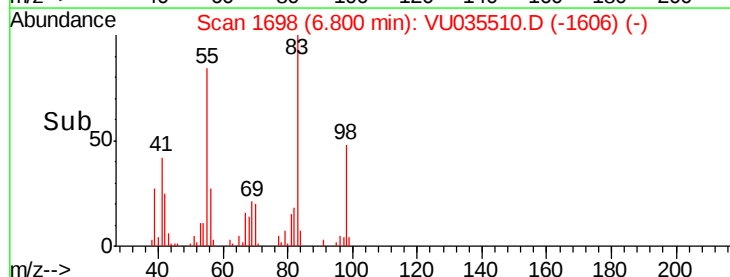
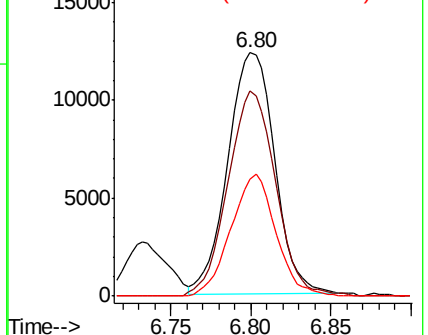
98 48.3 38.9 58.3

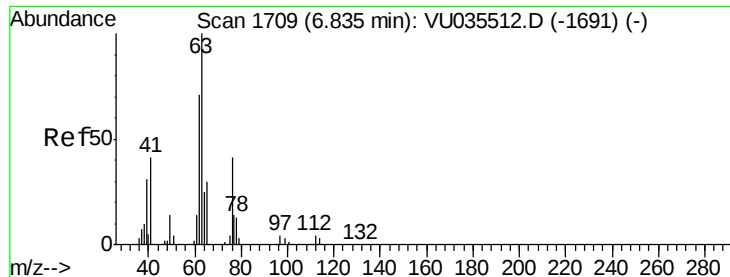


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

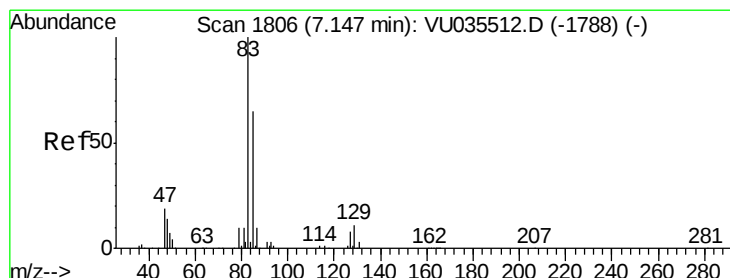
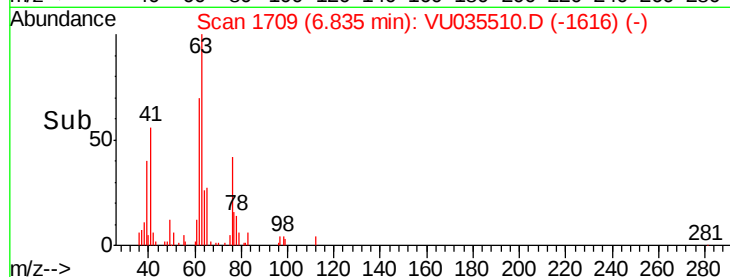
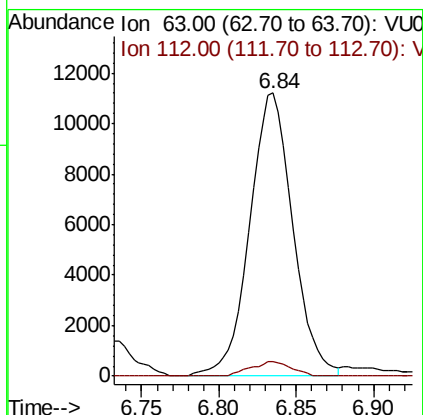
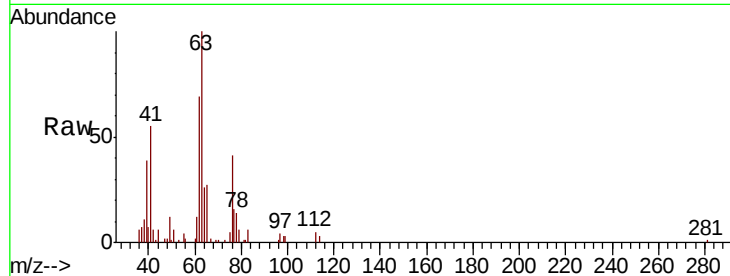




#37
 1,2-Dichloropropane
 Concen: 5.540 ug/L
 RT: 6.84 min Scan# 1709
 Delta R.T. 0.00 min
 Lab File: VU035510.D
 Acq: 26 Oct 2019 11:42

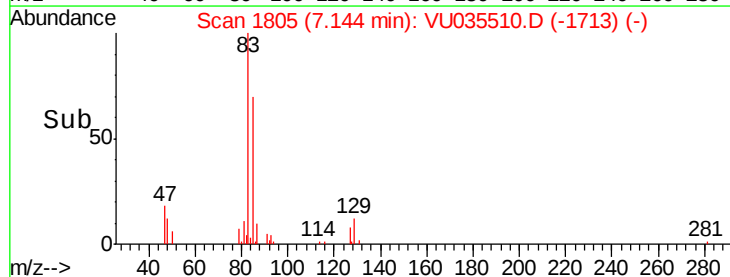
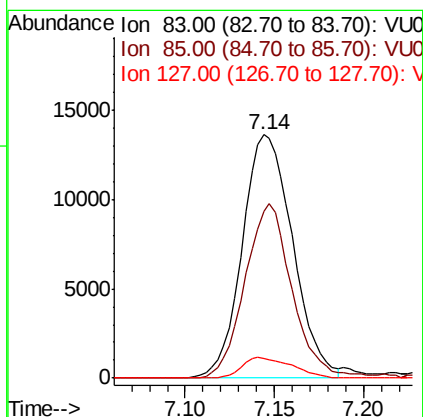
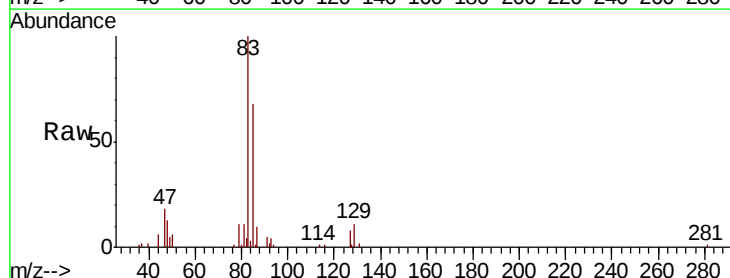
Instrument :
 MSVOA_U
 ClientSampleId :

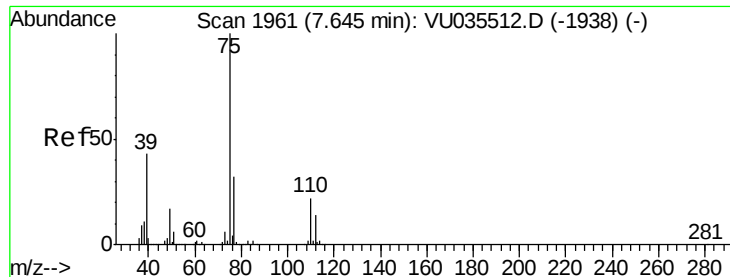
Tot Ion: 63 Resp: 21796
 Ion Ratio Lower Upper
 63 100
 112 4.8 3.4 5.0



#38
 Bromodichloromethane
 Concen: 5.168 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VU035510.D
 Acq: 26 Oct 2019 11:42

Tgt Ion: 83 Resp: 26909
 Ion Ratio Lower Upper
 83 100
 85 68.3 45.6 84.6
 127 8.3 6.6 10.0

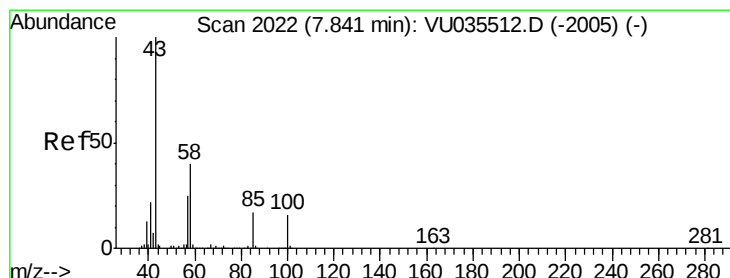
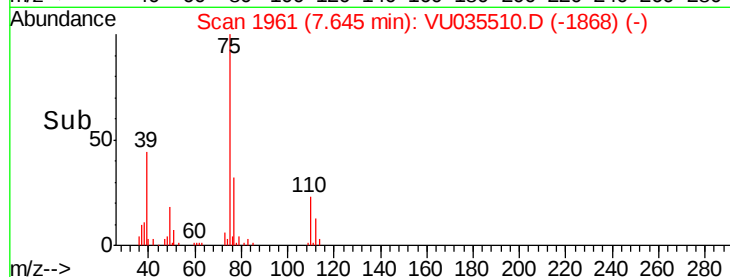
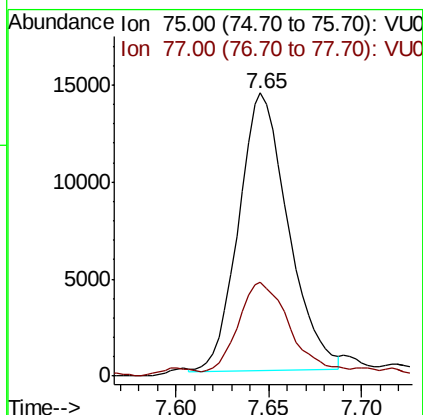
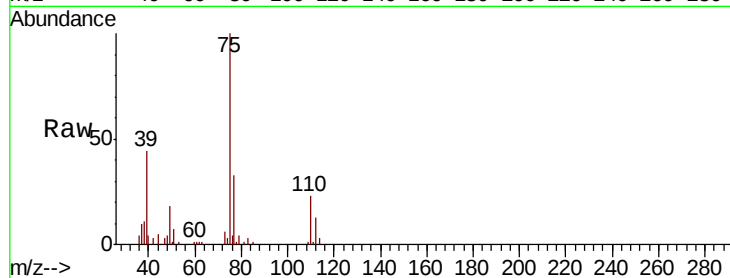




#39
 cis-1,3-Dichloropropene
 Concen: 4.231 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. 0.00 min
 Lab File: VU035510.D
 Acq: 26 Oct 2019 11:42

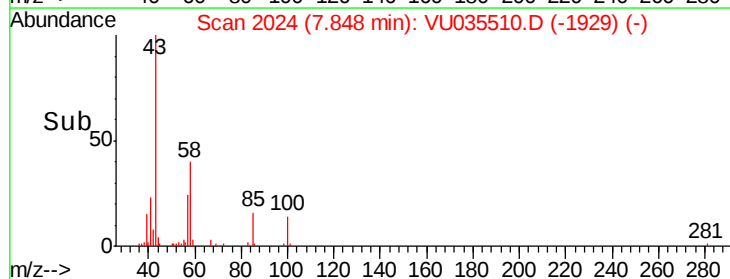
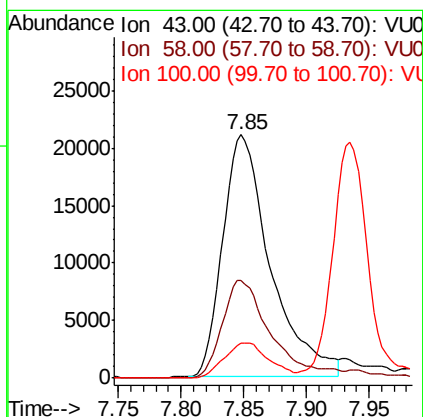
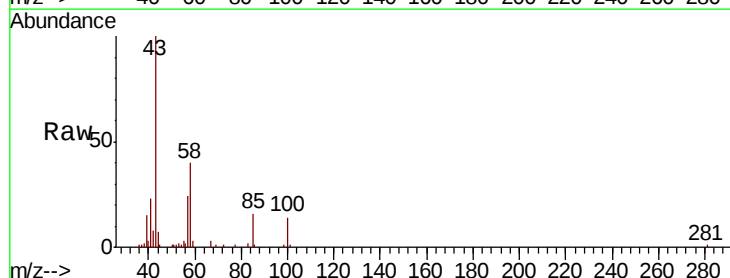
Instrument :
 MSVOA_U
 ClientSampleId :

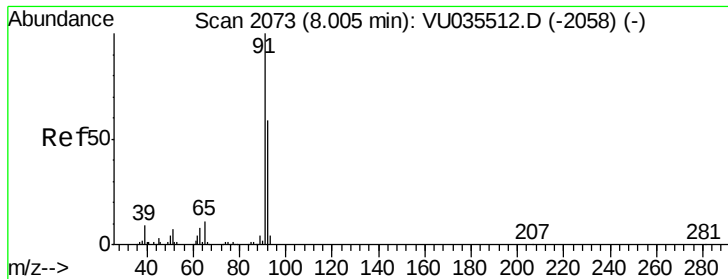
Tot Ion: 75 Resp: 26607
 Ion Ratio Lower Upper
 75 100
 77 33.1 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 9.639 ug/L
 RT: 7.85 min Scan# 2024
 Delta R.T. 0.01 min
 Lab File: VU035510.D
 Acq: 26 Oct 2019 11:42

Tgt Ion: 43 Resp: 55601
 Ion Ratio Lower Upper
 43 100
 58 39.8 31.9 47.9
 100 13.7 12.3 18.5





#42

Toluene

Concen: 4.695 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

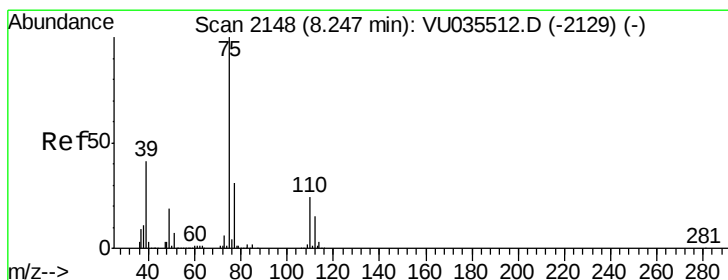
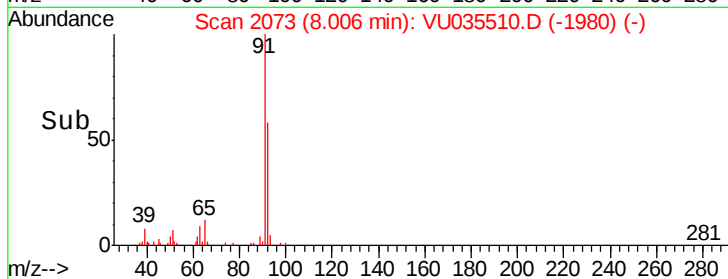
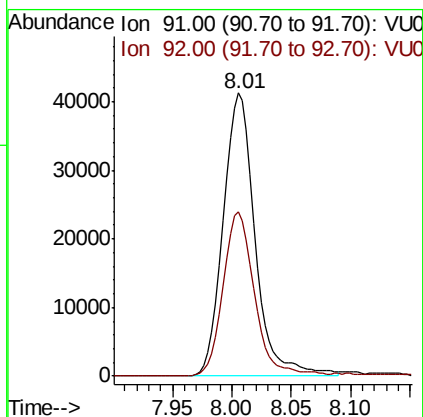
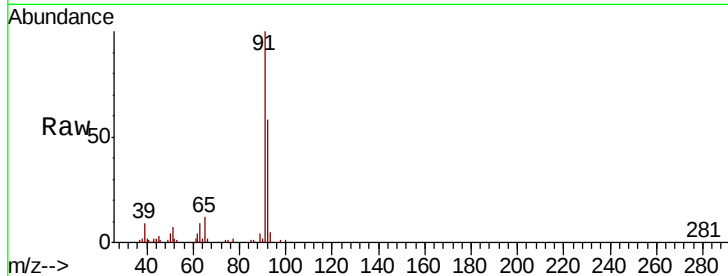
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 76955

Ion Ratio Lower Upper

91 100

92 58.1 41.0 76.2



#44

trans-1,3-Dichloropropene

Concen: 4.641 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU035510.D

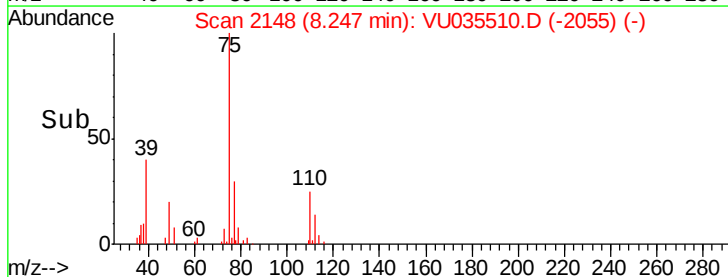
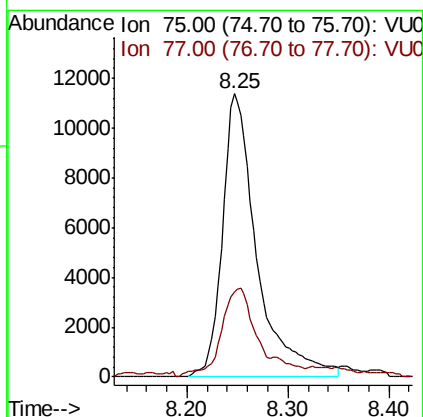
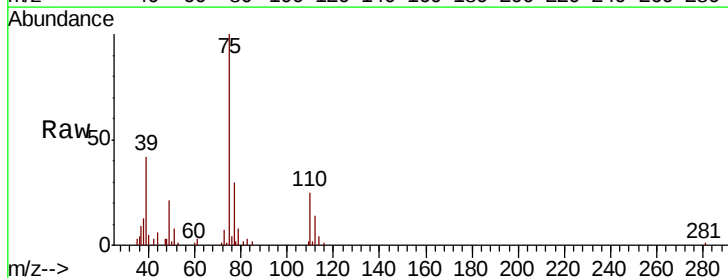
Acq: 26 Oct 2019 11:42

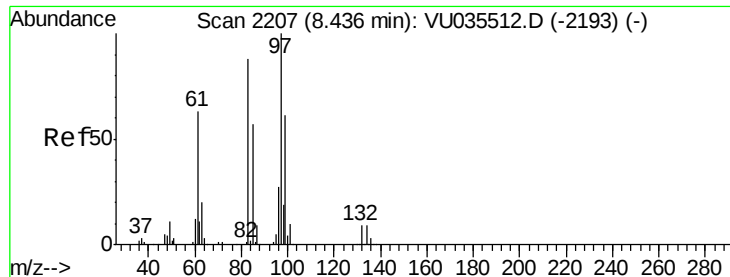
Tgt Ion: 75 Resp: 27117

Ion Ratio Lower Upper

75 100

77 30.0 21.9 40.7





#45

1,1,2-Trichloroethane

Concen: 5.314 ug/L

RT: 8.44 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 20377

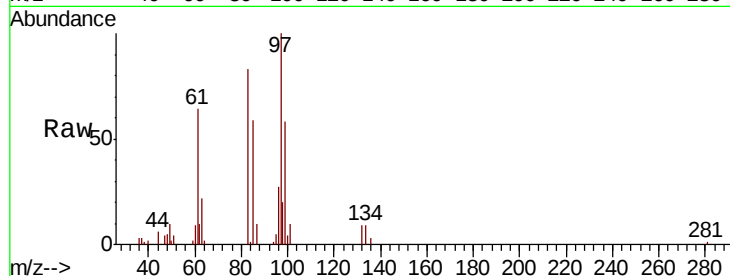
Ion Ratio Lower Upper

97 100

99 58.1 42.7 79.3

83 83.2 61.7 114.5

85 58.8 40.3 74.8

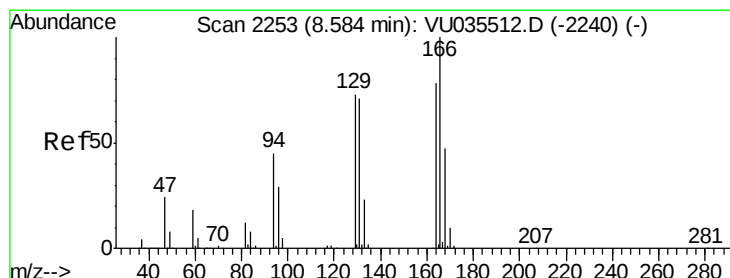
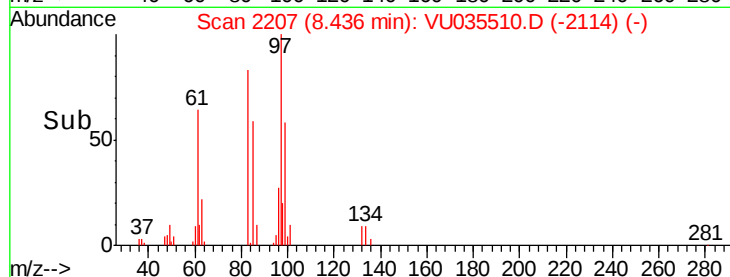
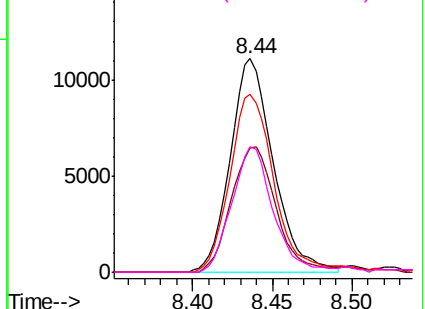


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 5.036 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Tgt Ion: 164 Resp: 15526

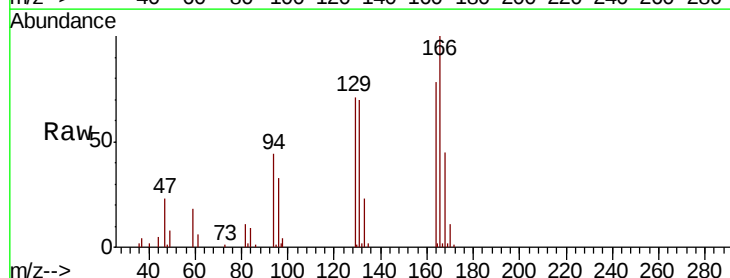
Ion Ratio Lower Upper

164 100

129 90.1 65.9 122.3

131 88.8 63.6 118.0

166 126.6 89.8 166.8

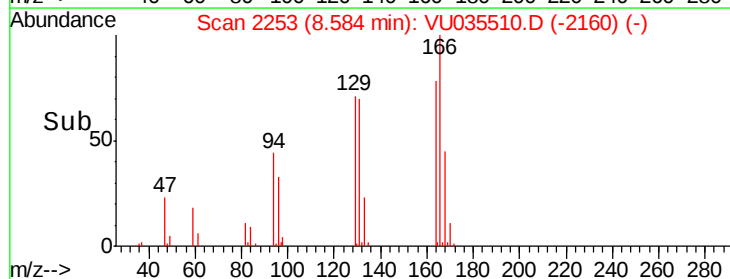
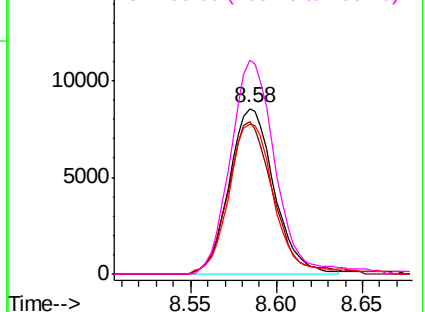


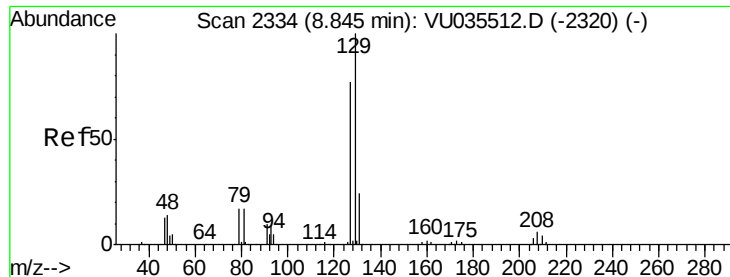
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

Dibromochloromethane

Concen: 4.743 ug/L

RT: 8.84 min Scan# 2334

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Instrument :

MSVOA_U

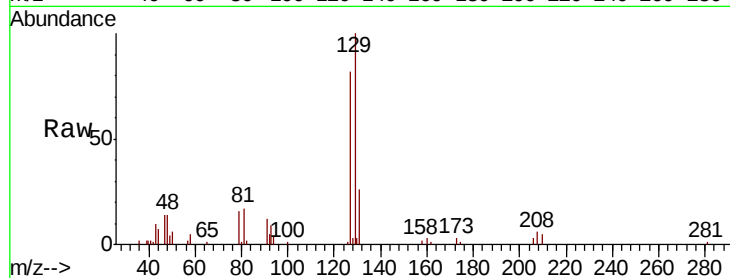
ClientSampleId :

Tot Ion:129 Resp: 20183

Ion Ratio Lower Upper

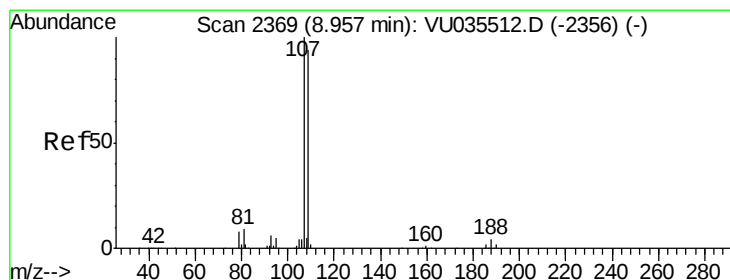
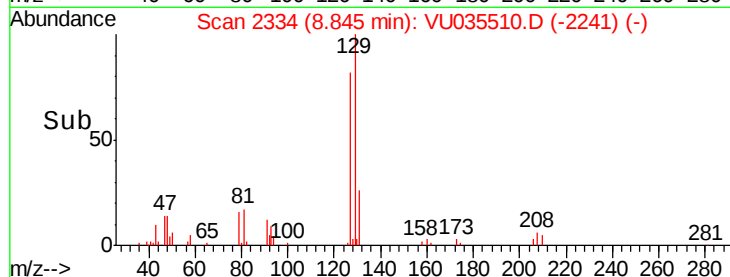
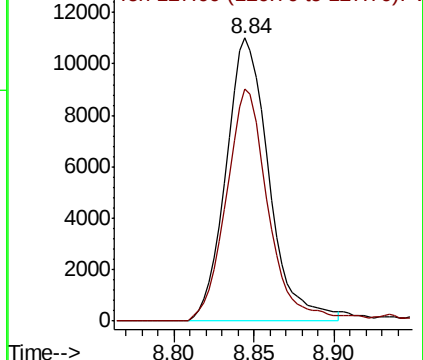
129 100

127 82.1 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 4.688 ug/L

RT: 8.96 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

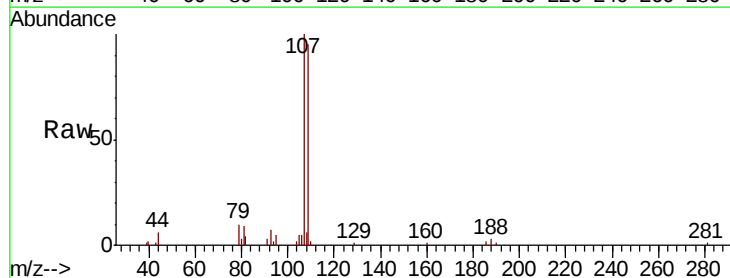
Tgt Ion:107 Resp: 19723

Ion Ratio Lower Upper

107 100

109 95.4 65.7 122.1

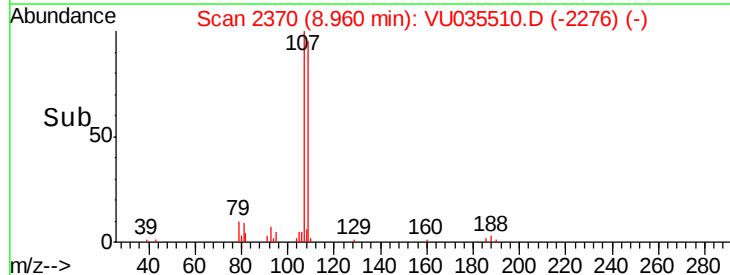
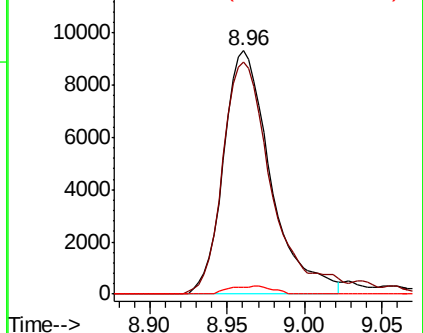
188 2.7 3.1 4.7#

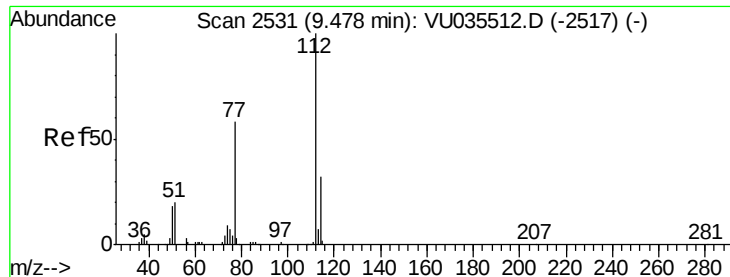


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#51

Chlorobenzene

Concen: 4.903 ug/L

RT: 9.48 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

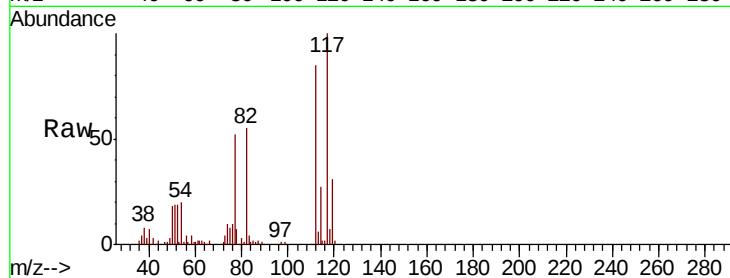
Tot Ion:112 Resp: 52219

Ion Ratio Lower Upper

112 100

114 31.6 22.1 41.1

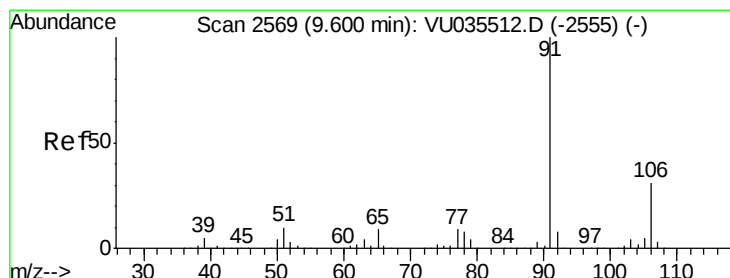
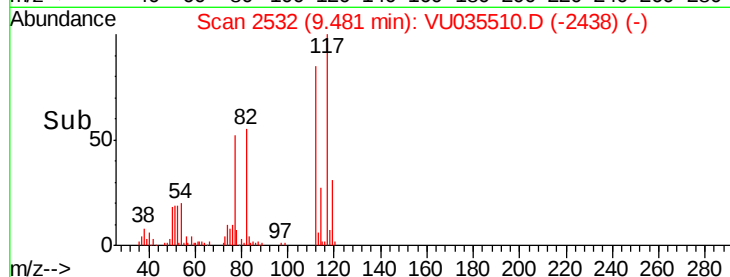
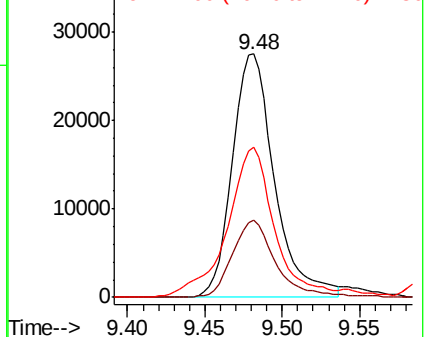
77 61.5 46.7 70.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 4.277 ug/L

RT: 9.60 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU035510.D

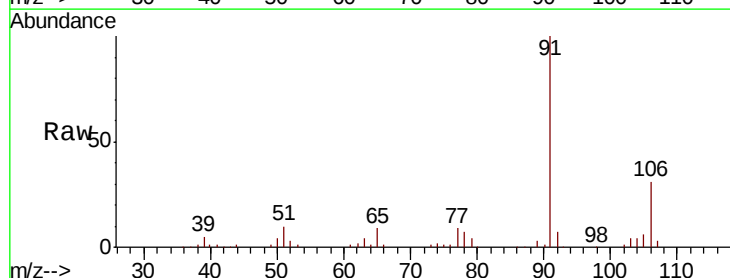
Acq: 26 Oct 2019 11:42

Tgt Ion: 91 Resp: 77604

Ion Ratio Lower Upper

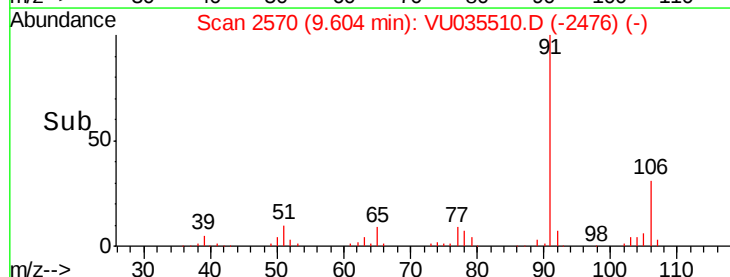
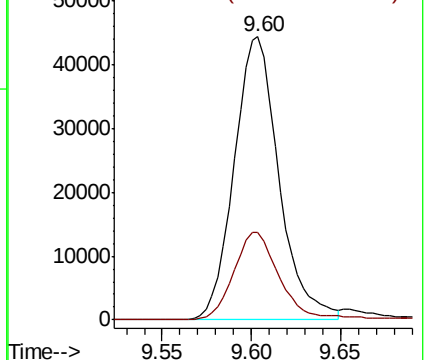
91 100

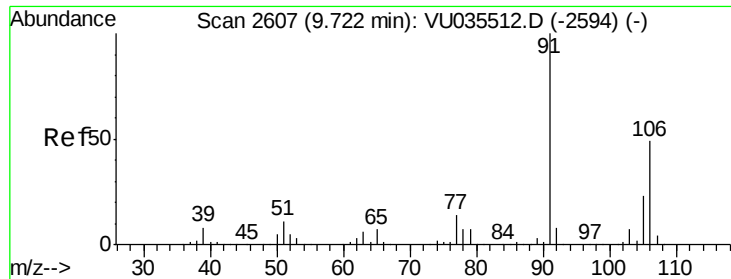
106 30.8 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 4.188 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Instrument :

MSVOA_U

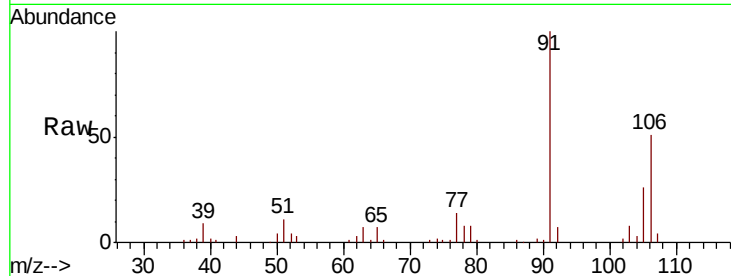
ClientSampleId :

Tot Ion:106 Resp: 28199

Ion Ratio Lower Upper

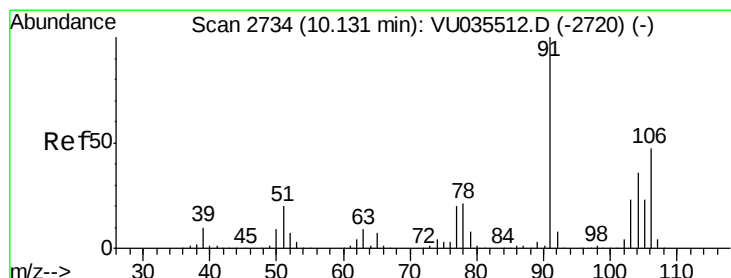
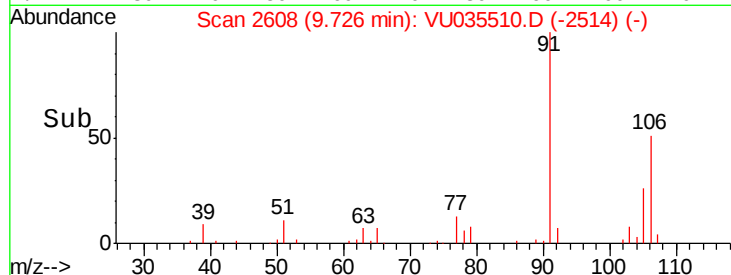
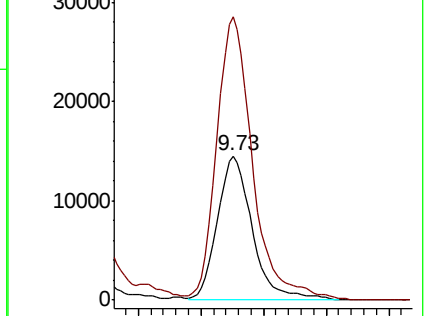
106 100

91 196.7 141.7 263.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 4.024 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU035510.D

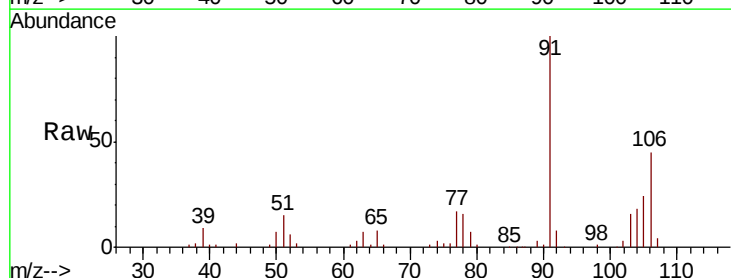
Acq: 26 Oct 2019 11:42

Tgt Ion:106 Resp: 26663

Ion Ratio Lower Upper

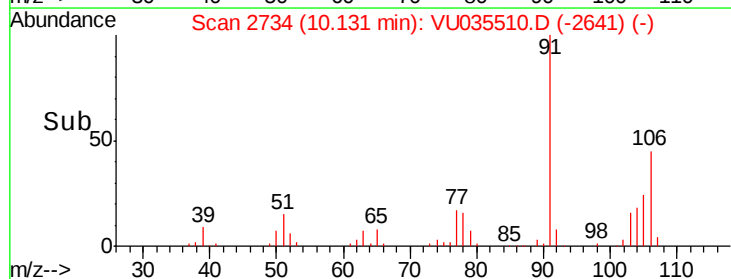
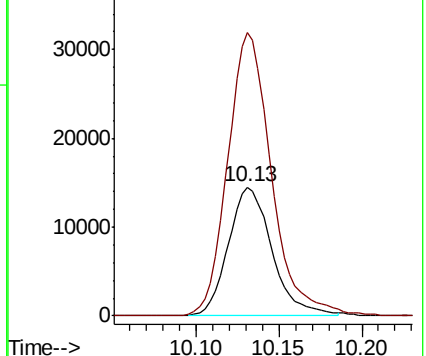
106 100

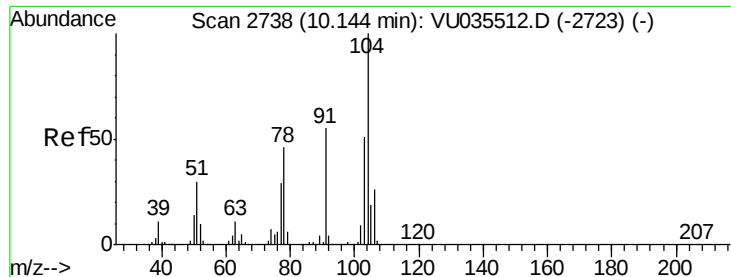
91 220.1 150.3 279.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

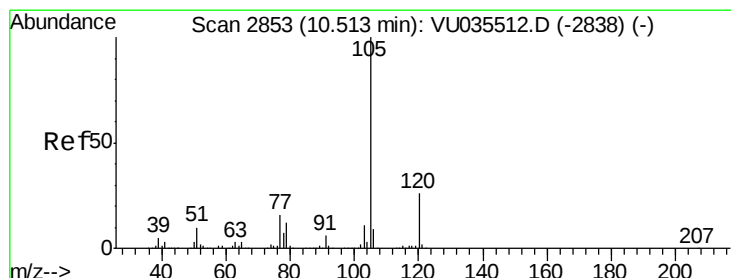
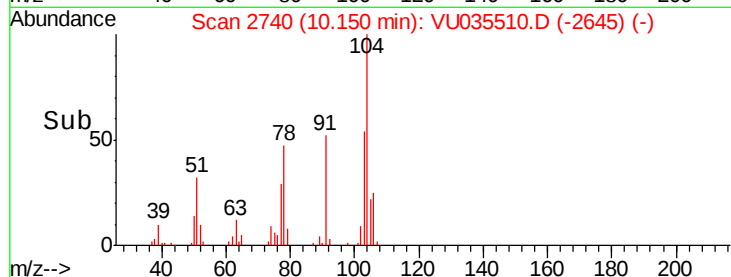
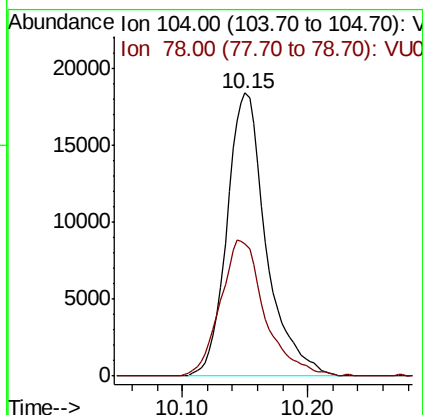
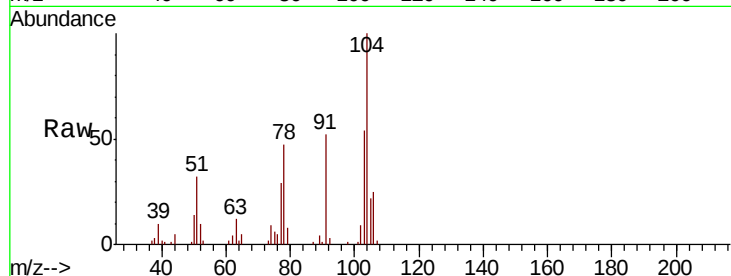




#55
Stvrene
Concen: 3.712 ug/L
RT: 10.15 min Scan# 2740
Delta R.T. 0.01 min
Lab File: VU035510.D
Acq: 26 Oct 2019 11:42

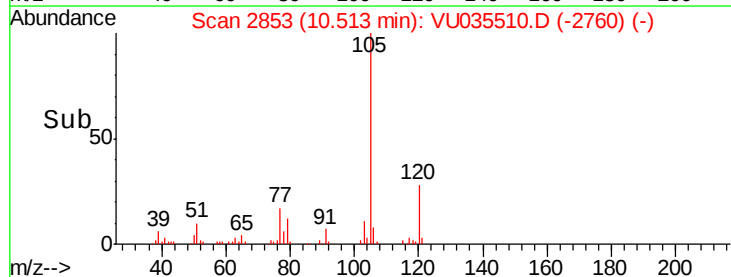
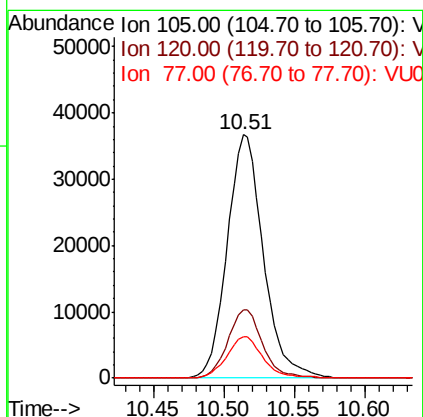
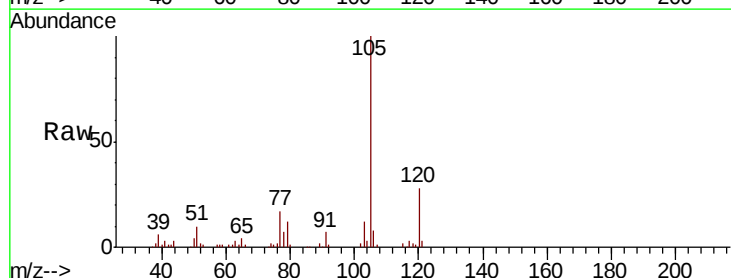
Instrument :
MSVOA_U
ClientSampled :

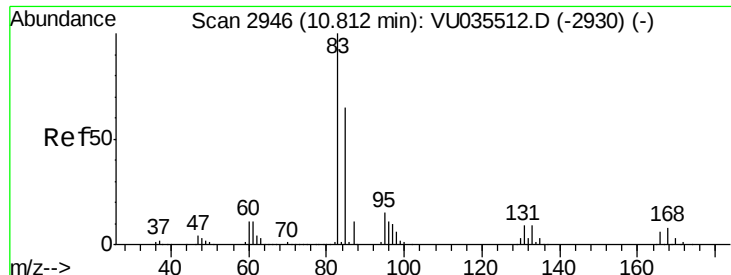
Tot Ion:104 Resp: 40072
Ion Ratio Lower Upper
104 100
78 46.8 32.3 59.9



#56
Isopropylbenzene
Concen: 3.859 ug/L
RT: 10.51 min Scan# 2853
Delta R.T. 0.00 min
Lab File: VU035510.D
Acq: 26 Oct 2019 11:42

Tgt Ion:105 Resp: 65801
Ion Ratio Lower Upper
105 100
120 26.9 21.0 31.4
77 17.0 12.8 19.2





#58

1,1,2,2-Tetrachloroethane

Concen: 5.186 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Instrument :

MSVOA_U

ClientSampled :

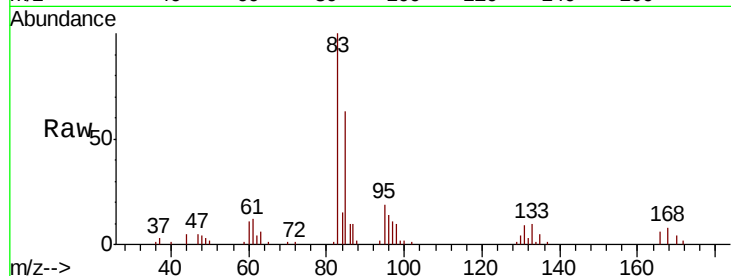
Tot Ion: 83 Resp: 34742

Ion Ratio Lower Upper

83 100

85 63.3 45.4 84.4

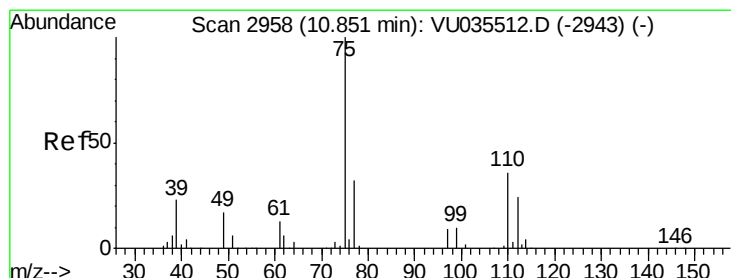
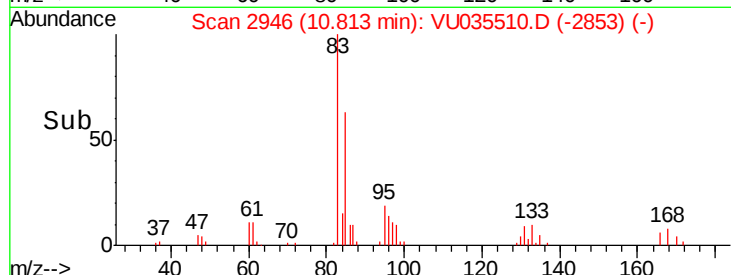
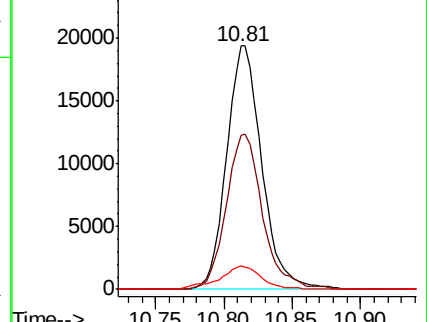
131 9.4 7.5 11.3



Abundance Ion 83.00 (82.70 to 83.70): VU035510.D (-2930) (-)

Ion 85.00 (84.70 to 85.70): VU035510.D (-2930) (-)

Ion 131.00 (130.70 to 131.70): VU035510.D (-2930) (-)



#59

1,2,3-Trichloropropane

Concen: 5.222 ug/L

RT: 10.85 min Scan# 2959

Delta R.T. 0.00 min

Lab File: VU035510.D

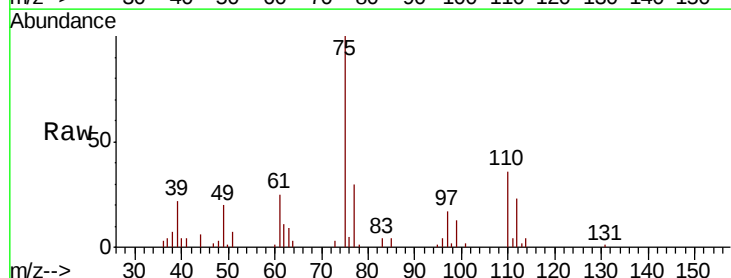
Acq: 26 Oct 2019 11:42

Tgt Ion: 75 Resp: 27779

Ion Ratio Lower Upper

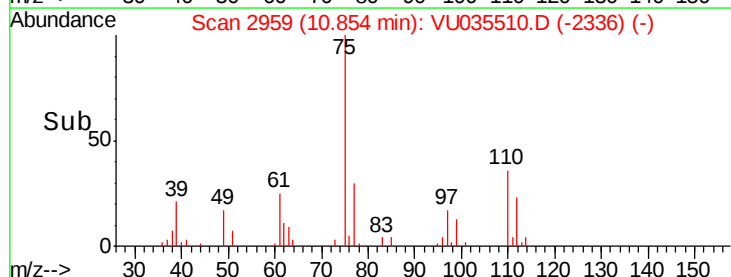
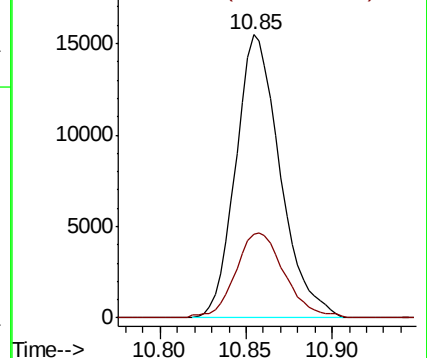
75 100

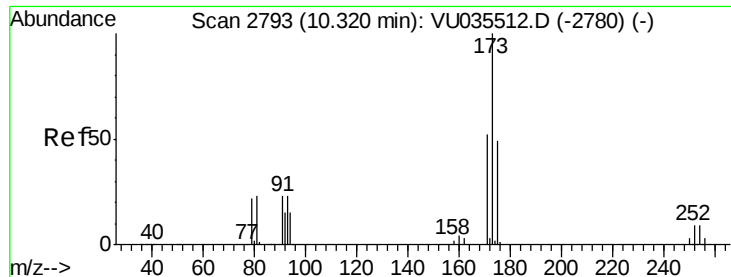
77 32.8 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU035510.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU035510.D (-2943) (-)





#61

Bromoform

Concen: 6.526 ug/L

RT: 10.32 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Instrument :

MSVOA_U

ClientSampled :

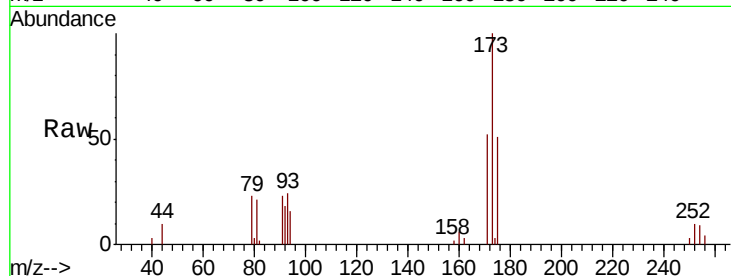
Tot Ion:173 Resp: 15714

Ion Ratio Lower Upper

173 100

175 46.5 39.3 58.9

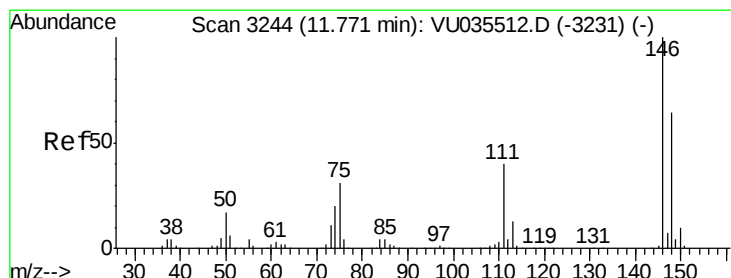
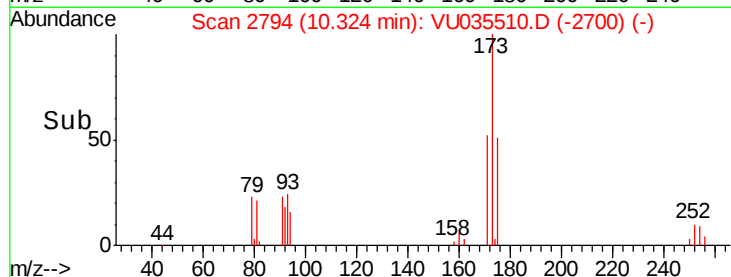
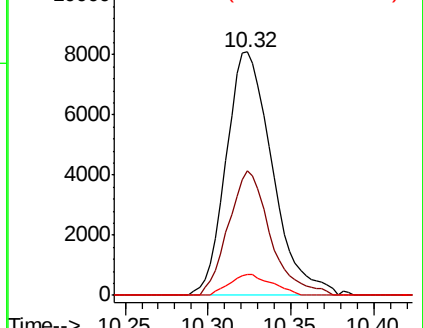
254 7.9 7.6 11.4



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 5.310 ug/L

RT: 11.78 min Scan# 3246

Delta R.T. 0.01 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

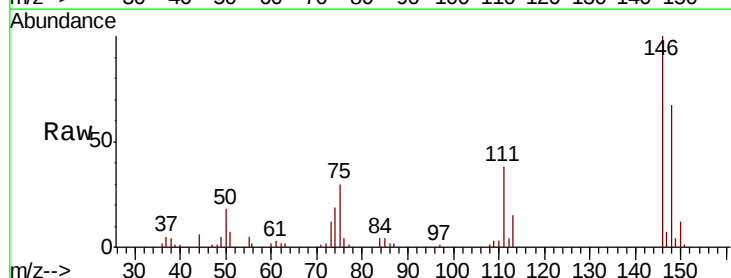
Tgt Ion:146 Resp: 28942

Ion Ratio Lower Upper

146 100

111 38.4 28.1 52.1

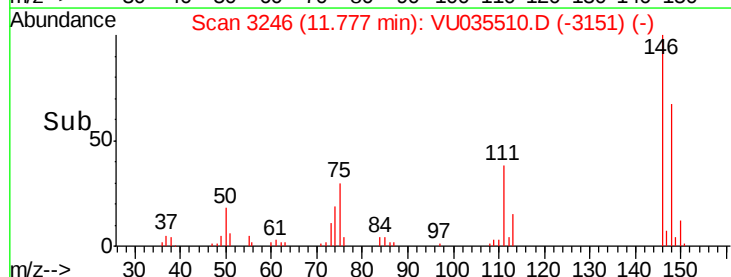
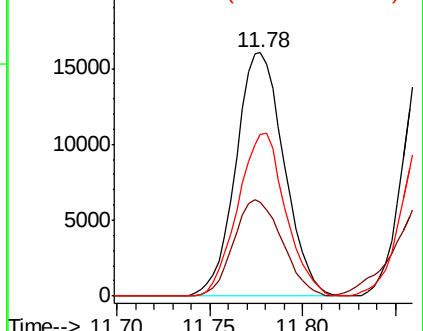
148 66.7 45.0 83.6

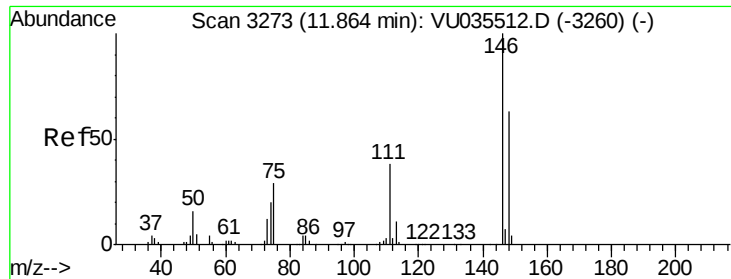


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 5.678 ug/L

RT: 11.87 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

Instrument :

MSVOA_U

ClientSampleId :

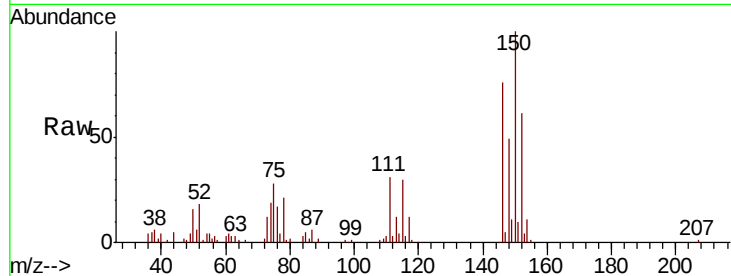
Tot Ion:146 Resp: 31034

Ion Ratio Lower Upper

146 100

111 40.7 26.7 49.5

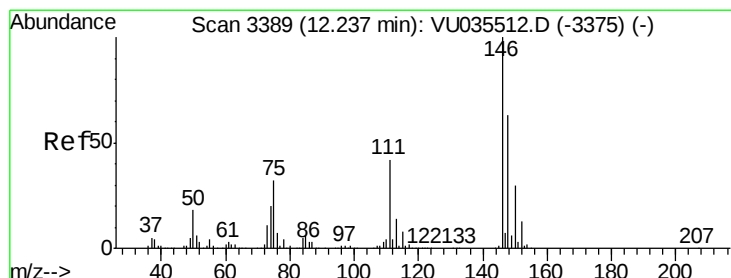
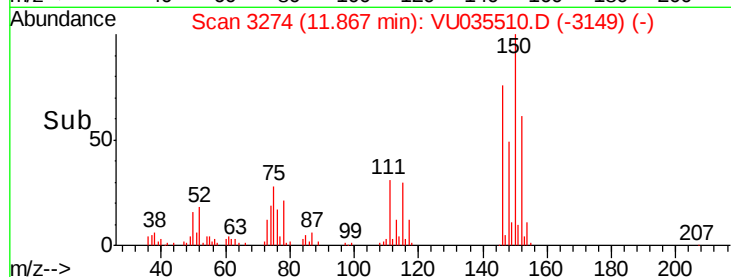
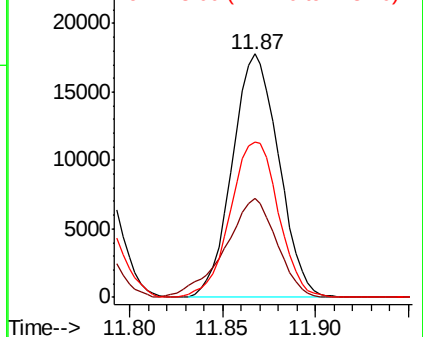
148 63.9 44.4 82.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 5.723 ug/L

RT: 12.24 min Scan# 3391

Delta R.T. 0.01 min

Lab File: VU035510.D

Acq: 26 Oct 2019 11:42

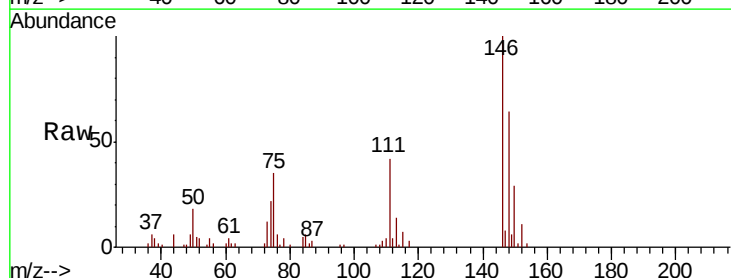
Tgt Ion:146 Resp: 31163

Ion Ratio Lower Upper

146 100

111 41.6 33.6 50.4

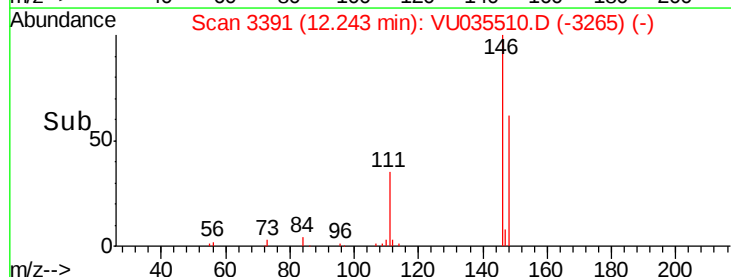
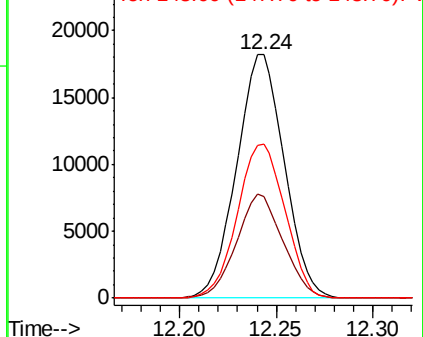
148 63.5 50.3 75.5

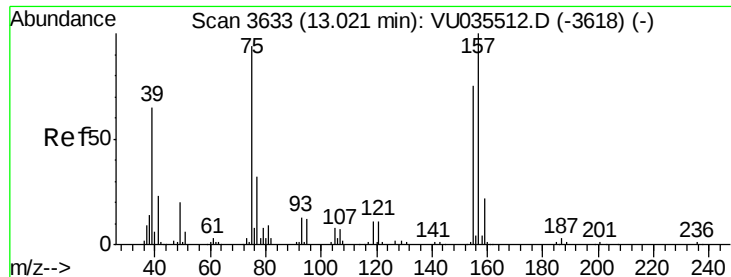


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

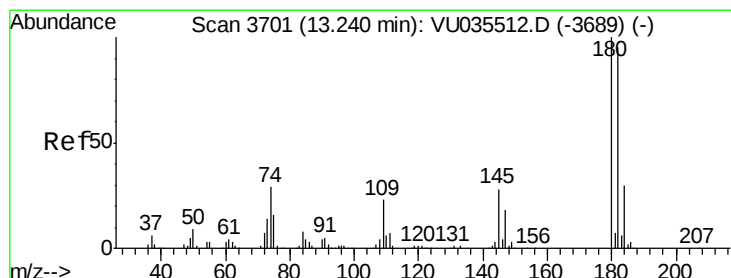
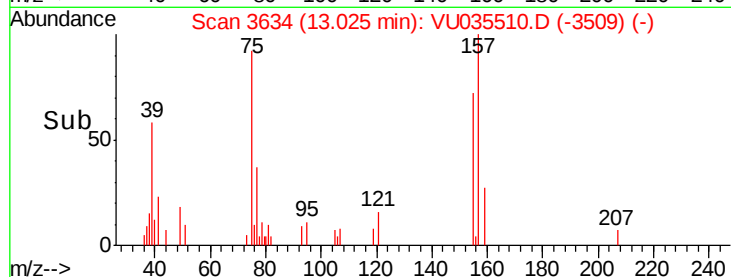
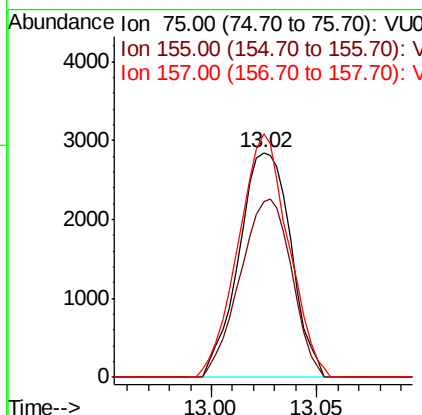
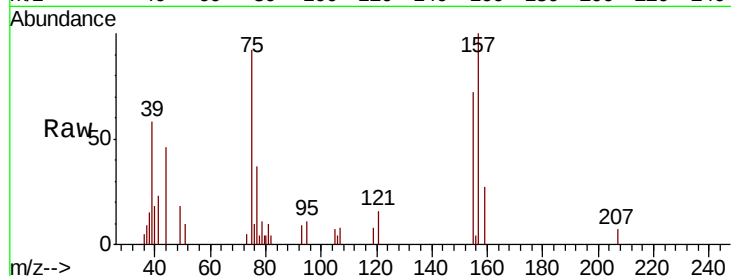




#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.634 ug/L
 RT: 13.02 min Scan# 3634
 Delta R.T. 0.00 min
 Lab File: VU035510.D
 Acq: 26 Oct 2019 11:42

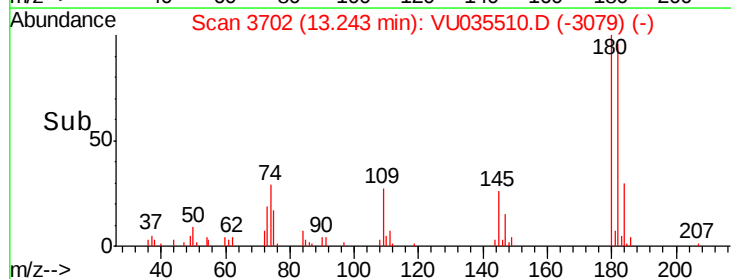
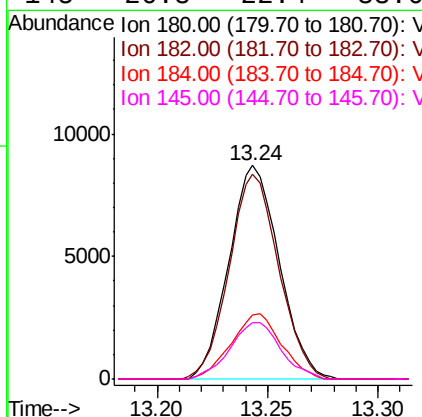
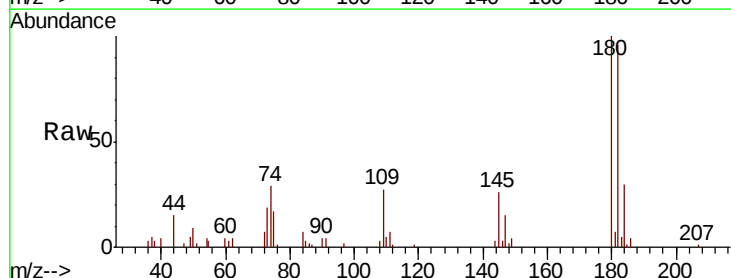
Instrument :
 MSVOA_U
 ClientSampleId :

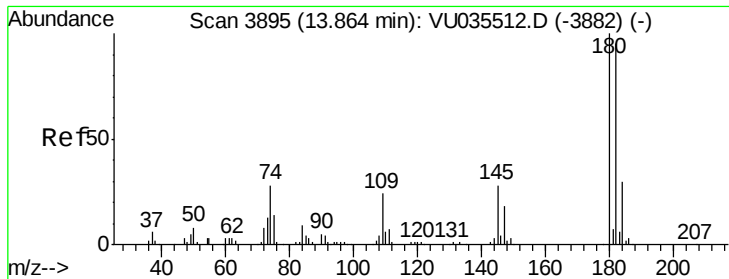
Tot Ion: 75 Resp: 4873
 Ion Ratio Lower Upper
 75 100
 155 77.9 64.2 96.4
 157 108.3 85.1 127.7



#67
 1,3,5-Trichlorobenzene
 Concen: 4.618 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU035510.D
 Acq: 26 Oct 2019 11:42

Tgt Ion: 180 Resp: 13779
 Ion Ratio Lower Upper
 180 100
 182 94.6 76.6 114.8
 184 30.5 23.9 35.9
 145 26.8 22.4 33.6

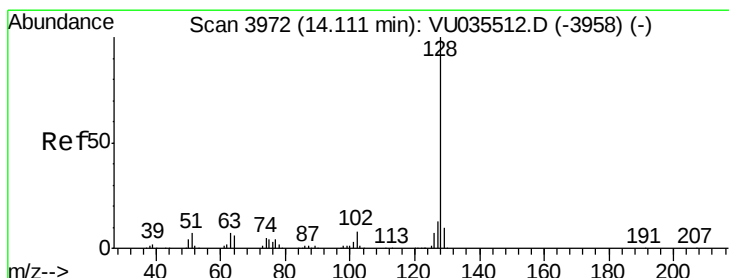
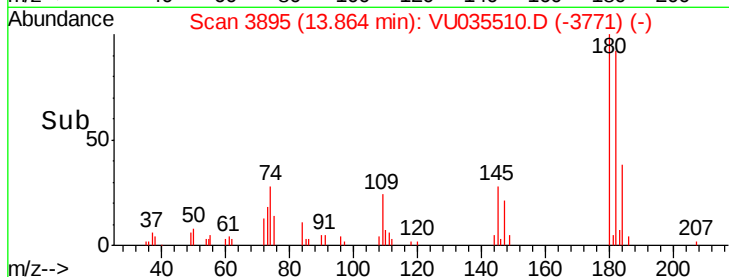
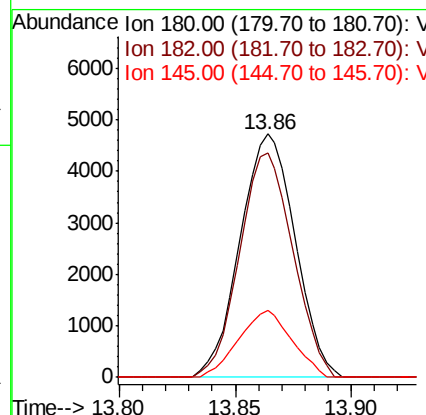
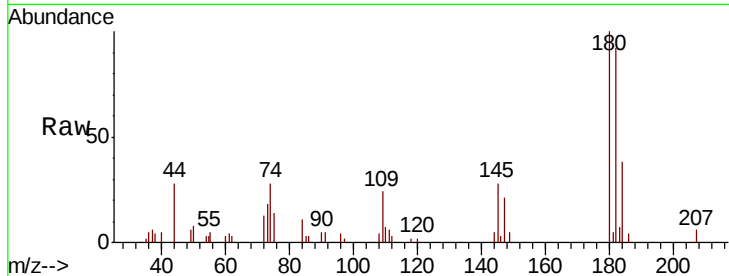




#68
 1,2,4-trichlorobenzene
 Concen: 3.994 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. 0.00 min
 Lab File: VU035510.D
 Acq: 26 Oct 2019 11:42

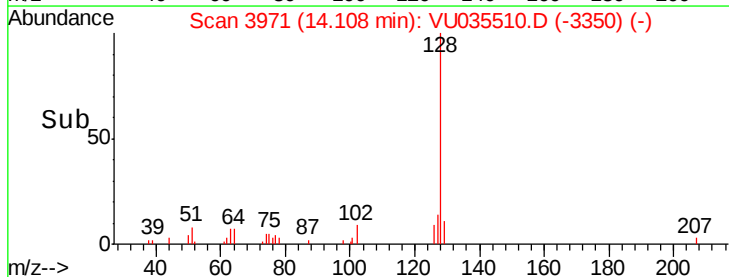
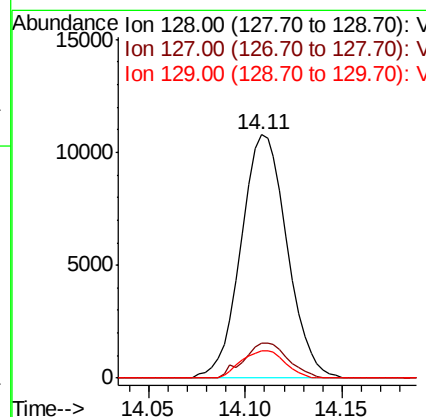
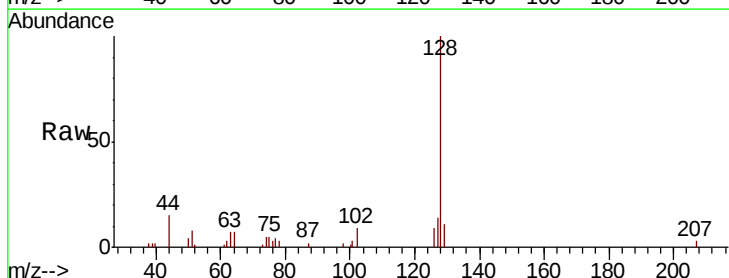
Instrument :
 MSVOA_U
 ClientSampleId :

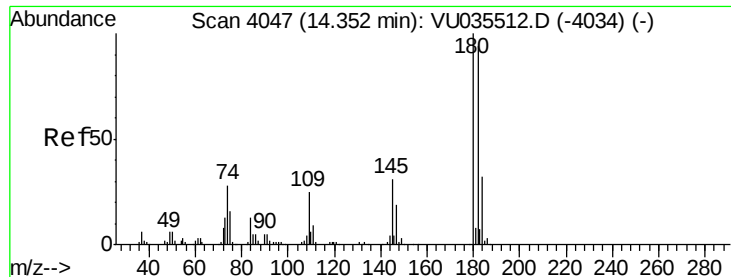
Tot Ion:180 Resp: 7763
 Ion Ratio Lower Upper
 180 100
 182 89.6 75.0 112.4
 145 26.6 22.6 34.0



#69
 Naphthalene
 Concen: 3.316 ug/L
 RT: 14.11 min Scan# 3971
 Delta R.T. -0.00 min
 Lab File: VU035510.D
 Acq: 26 Oct 2019 11:42

Tgt Ion:128 Resp: 17835
 Ion Ratio Lower Upper
 128 100
 127 13.9 10.3 15.5
 129 10.7 8.4 12.6

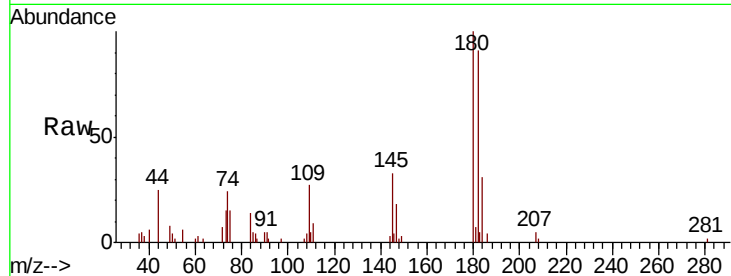




#70
 1,2,3-Trichlorobenzene
 Concen: 4.164 ug/L
 RT: 14.35 min Scan# 4047
 Delta R.T. 0.00 min
 Lab File: VU035510.D
 Acq: 26 Oct 2019 11:42

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.8	76.0	114.0
145	31.7	24.9	37.3



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

