

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU051521\
 Data File : VU043778.D
 Acq On : 15 May 2021 00:40
 Operator : SY/MD
 Sample : M2380-05
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 15 01:21:22 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR051521WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat May 15 00:49:19 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.256	114	228322	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.424	117	227423	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	104126	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.601	65	82495	4.90	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.00%
7) Chloroethane-d5	1.919	69	61608	5.24	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.80%
11) 1,1-Dichloroethene-d2	2.575	65	35654	5.11	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	102.20%
20) 2-Butanone-d5	4.646	46	154389	48.23	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.46%
24) Chloroform-d	5.073	84	138409	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
26) 1,2-Dichloroethane-d4	5.713	65	71934	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
32) Benzene-d6	5.736	84	290212	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.40%
36) 1,2-Dichloropropane-d6	6.700	67	92472	5.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.40%
41) Toluene-d8	7.906	98	247770	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.80%
43) trans-1,3-Dichloroprop...	8.186	79	31920	4.67	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.40%
46) 2-Hexanone-d5	8.642	63	153230	49.79	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.58%
56) 1,1,2,2-Tetrachloroeth...	10.764	84	73238	4.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.00%
66) 1,2-Dichlorobenzene-d4	12.198	152	91844	5.29	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.80%

Target Compounds

						Qvalue
5) Vinyl chloride	1.607	62	55374	2.86	ug/L	97
12) 1,1-Dichloroethene	2.585	96	6661	0.44	ug/L #	1
17) Methyl tert-butyl Ether	3.376	73	4390	0.13	ug/L #	1
18) trans-1,2-Dichloroethene	3.366	96	5190	0.33	ug/L	98
19) 1,1-Dichloroethane	3.880	63	119785	4.19	ug/L	99
22) cis-1,2-Dichloroethene	4.678	96	152950	9.19	ug/L	99
25) Chloroform	5.099	83	67865	2.40	ug/L	96
27) 1,2-Dichloroethane	5.806	62	11640	0.67	ug/L	98
29) 1,1,1-Trichloroethane	5.327	97	34163	1.44	ug/L	99
30) Cyclohexane	5.395	56	4006	0.15	ug/L	93
31) Carbon tetrachloride	5.324	117	4732	0.24	ug/L	95
33) Benzene	5.784	78	23148	0.35	ug/L	100
34) Trichloroethene	6.549	95	7017	0.42	ug/L	91
35) Methylcyclohexane	6.700	83	20839	0.79	ug/L #	17
37) 1,2-Dichloropropane	6.700	63	9404	0.55	ug/L #	88
39) cis-1,3-Dichloropropene	7.575	75	1968	0.09	ug/L #	39
42) Toluene	7.977	91	4761	0.07	ug/L	91
45) 1,1,2-Trichloroethane	8.407	97	5823	0.47	ug/L	93
48) 2-Hexanone	8.642	43	18310	2.25	ug/L #	76

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 Sample : M2380-05
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 ALS Vial : 27 Sample Multiplier: 1

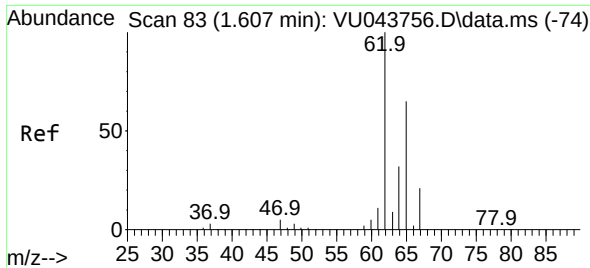
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 15 01:21:22 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR051521WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat May 15 00:49:19 2021
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

51) Chlorobenzene	9.452	112	35249	0.82	ug/L	100
54) o-Xylene	10.105	106	3160	0.12	ug/L	99
60) Isopropylbenzene	11.298	105	4875	0.09	ug/L	94
61) 1,2,3-Trichloropropane	11.748	75	1582	0.16	ug/L #	45
62) 1,3,5-Trimethylbenzene	11.472	105	2301	0.05	ug/L	92
64) 1,3-Dichlorobenzene	11.751	146	5110	0.17	ug/L	94
65) 1,4-Dichlorobenzene	11.841	146	8154	0.28	ug/L	95
67) 1,2-Dichlorobenzene	12.221	146	3455	0.12	ug/L #	91
69) 1,3,5-Trichlorobenzene	13.848	180	5415	0.23	ug/L	97
70) 1,2,4-trichlorobenzene	13.848	180	5415	0.28	ug/L	96
71) Naphthalene	14.092	128	2608	0.08	ug/L #	86
72) 1,2,3-Trichlorobenzene	14.336	180	3348	0.18	ug/L	94

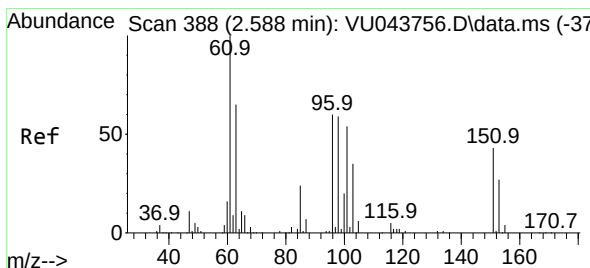
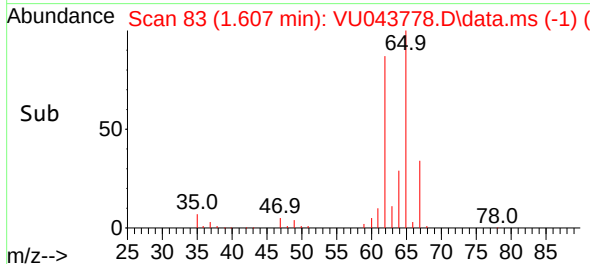
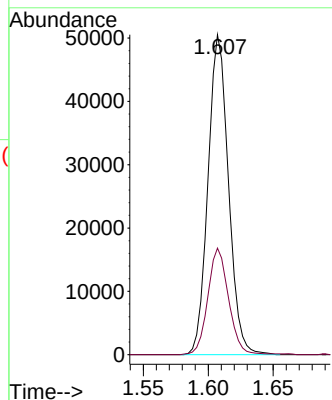
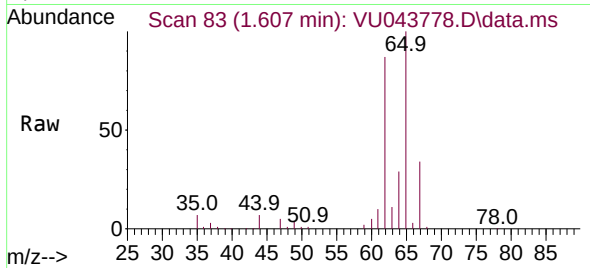
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#5
 Vinyl chloride
 Concen: 2.86 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VU043778.D
 Acq: 15 May 2021 00:40

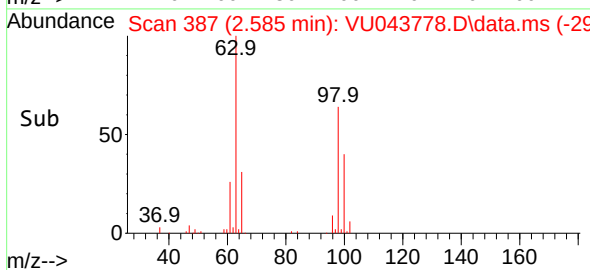
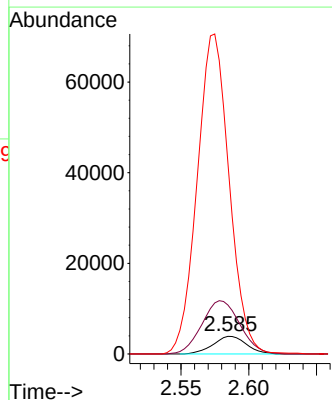
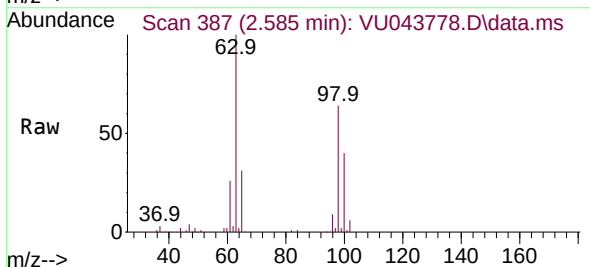
Instrument :
 MSVOA_U
 ClientSampled :

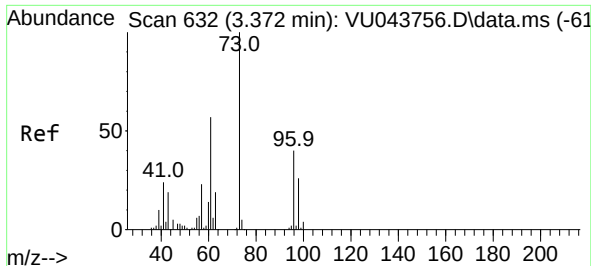
Tgt Ion: 62 Resp: 55374
 Ion Ratio Lower Upper
 62 100
 64 33.3 22.1 41.1



#12
 1,1-Dichloroethene
 Concen: 0.44 ug/L
 RT: 2.585 min Scan# 387
 Delta R.T. -0.003 min
 Lab File: VU043778.D
 Acq: 15 May 2021 00:40

Tgt Ion: 96 Resp: 6661
 Ion Ratio Lower Upper
 96 100
 61 277.2 117.5 218.1#
 63 1083.0 77.3 143.7#



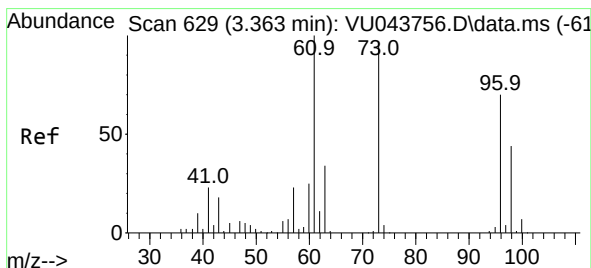
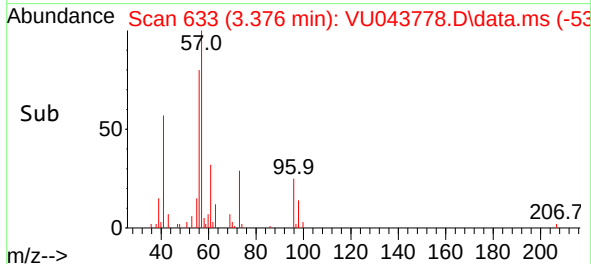
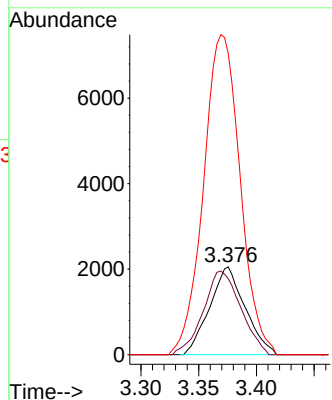
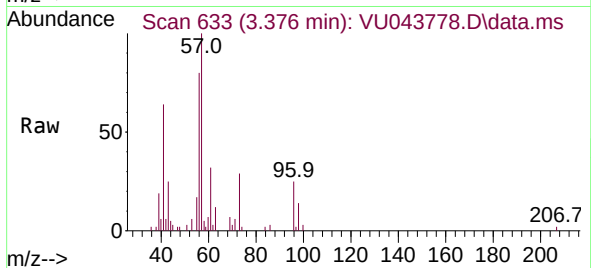


#17

Methyl tert-butyl Ether
Concen: 0.13 ug/L
RT: 3.376 min Scan# 633
Delta R.T. 0.003 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Instrument :
MSVOA_U
ClientSampled :

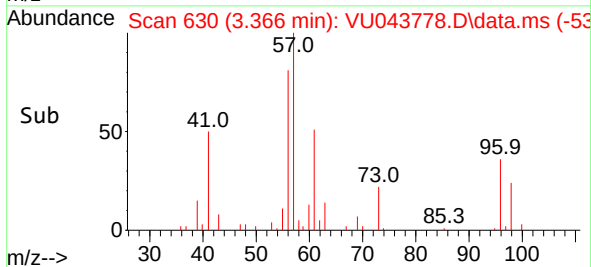
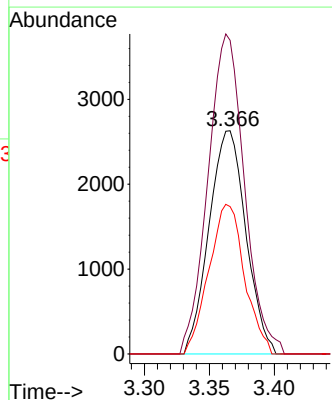
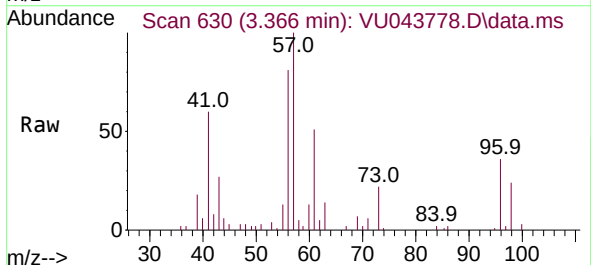
Tgt Ion: 73 Resp: 4390
Ion Ratio Lower Upper
73 100
43 100.6 15.0 22.4#
57 375.5 18.6 27.8#

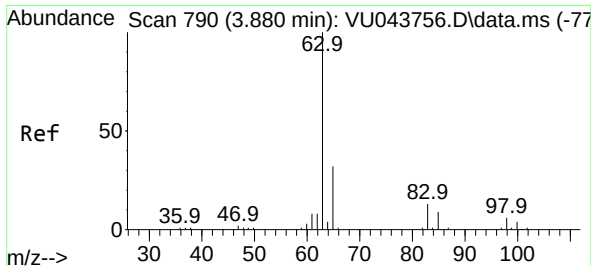


#18

trans-1,2-Dichloroethene
Concen: 0.33 ug/L
RT: 3.366 min Scan# 630
Delta R.T. 0.003 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Tgt Ion: 96 Resp: 5190
Ion Ratio Lower Upper
96 100
61 140.5 99.6 185.0
98 66.0 43.8 81.4





#19

1,1-Dichloroethane

Concen: 4.19 ug/L

RT: 3.880 min Scan# 790

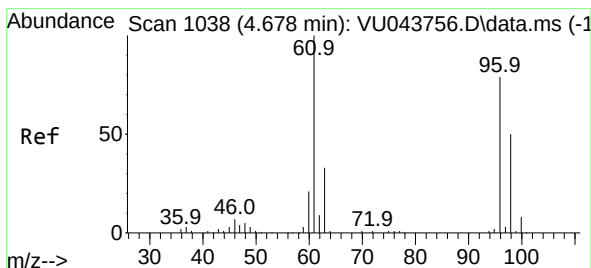
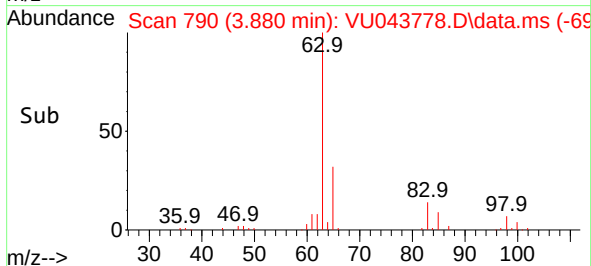
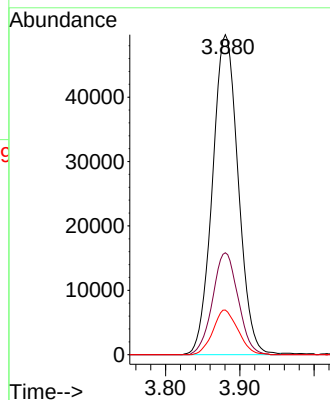
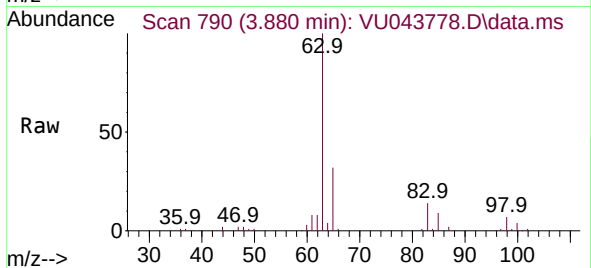
Delta R.T. 0.000 min

Lab File: VU043778.D

Acq: 15 May 2021 00:40

Tgt Ion:	63	Resp:	119785
Ion	Ratio	Lower	Upper
63	100		
65	31.8	22.3	41.3
83	13.9	9.0	16.8

Instrument :
MSVOA_U
ClientSampled :



#22

cis-1,2-Dichloroethene

Concen: 9.19 ug/L

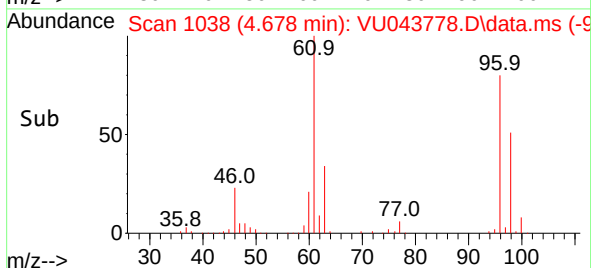
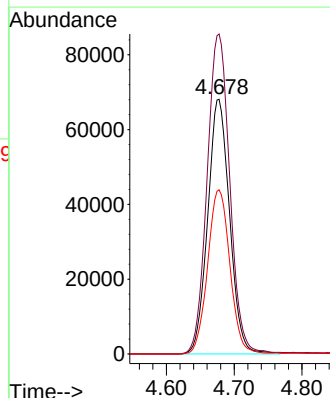
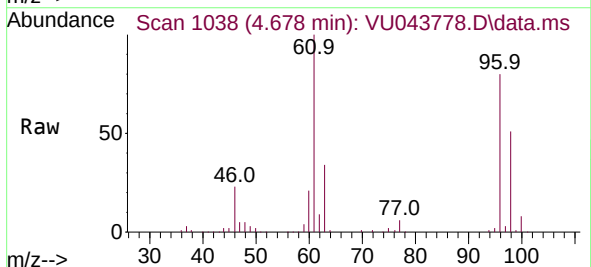
RT: 4.678 min Scan# 1038

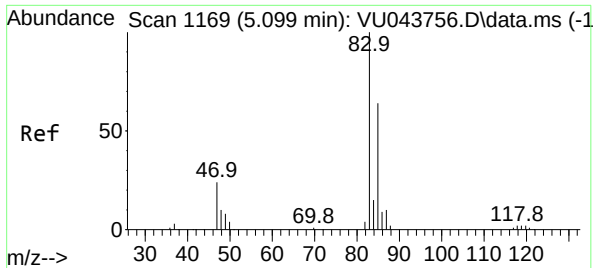
Delta R.T. 0.000 min

Lab File: VU043778.D

Acq: 15 May 2021 00:40

Tgt Ion:	96	Resp:	152950
Ion	Ratio	Lower	Upper
96	100		
61	125.6	89.0	165.4
98	64.4	44.9	83.3





#25

Chloroform

Concen: 2.40 ug/L

RT: 5.099 min Scan# 1169

Delta R.T. 0.000 min

Lab File: VU043778.D

Acq: 15 May 2021 00:40

Tgt Ion: 83 Resp: 67865

Ion Ratio Lower Upper

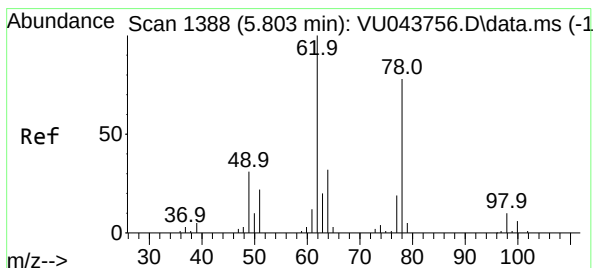
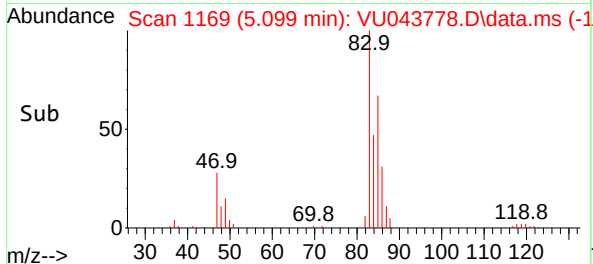
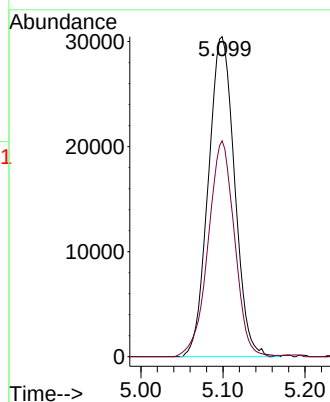
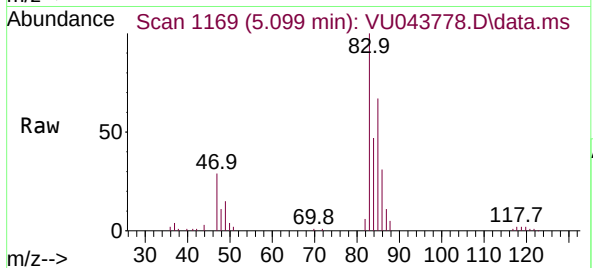
83 100

85 67.4 45.0 83.6

Instrument :

MSVOA_U

ClientSampled :



#27

1,2-Dichloroethane

Concen: 0.67 ug/L

RT: 5.806 min Scan# 1389

Delta R.T. 0.003 min

Lab File: VU043778.D

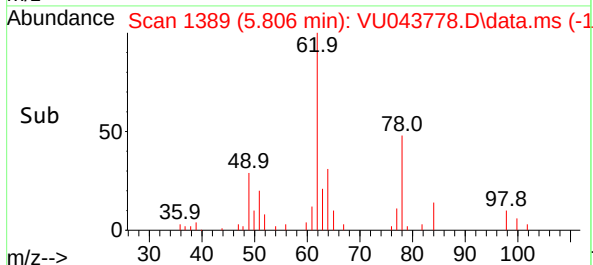
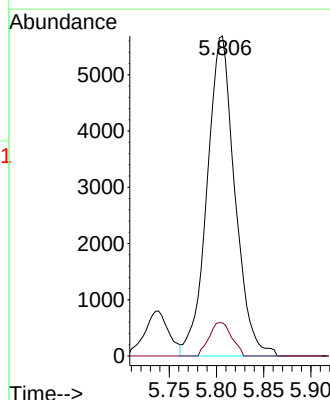
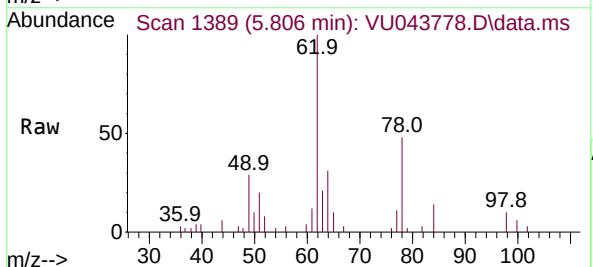
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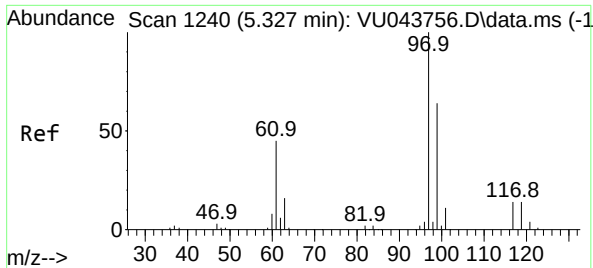
Tgt Ion: 62 Resp: 11640

Ion Ratio Lower Upper

62 100

98 10.3 7.7 11.5

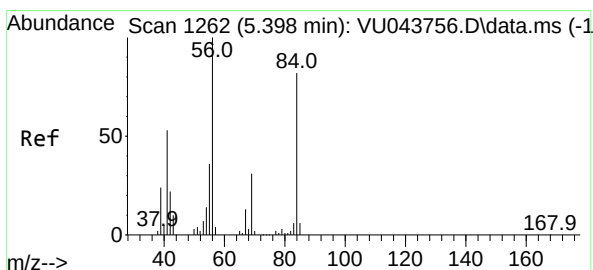
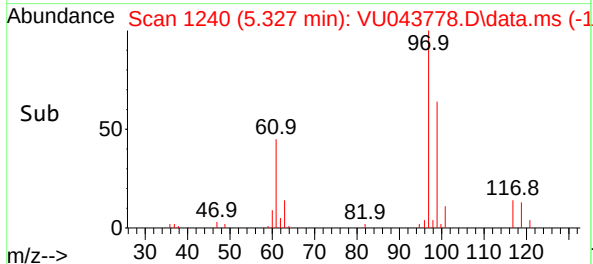
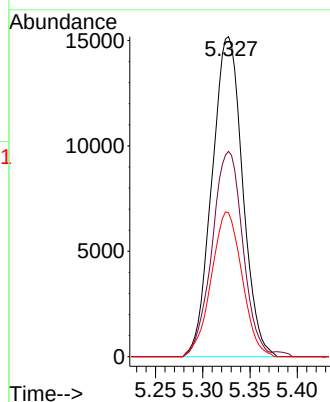
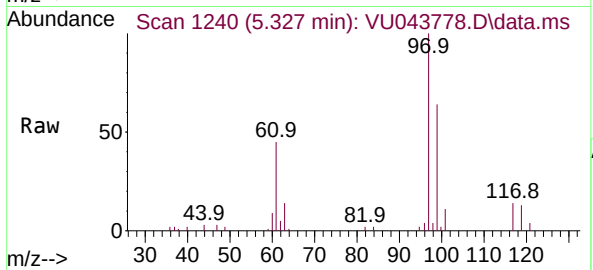




#29
1,1,1-Trichloroethane
Concen: 1.44 ug/L
RT: 5.327 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

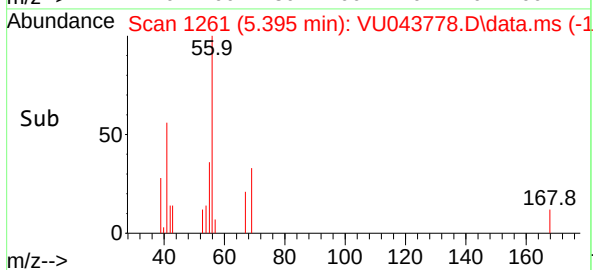
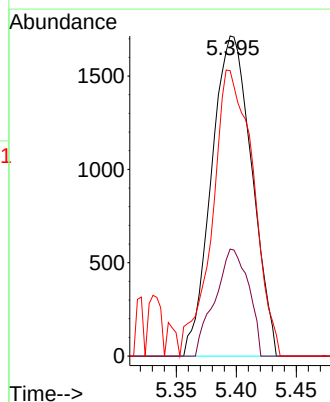
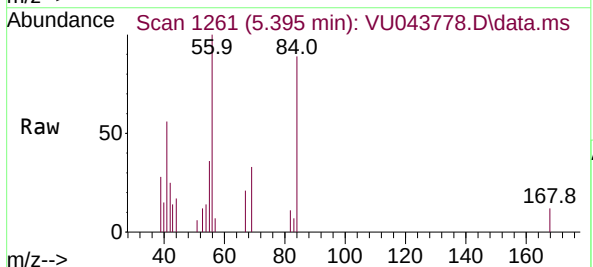
Instrument :
MSVOA_U
ClientSampled :

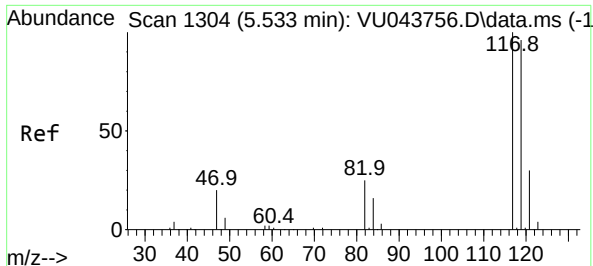
Tgt Ion: 97 Resp: 34163
Ion Ratio Lower Upper
97 100
99 64.6 51.1 76.7
61 45.5 37.0 55.4



#30
Cyclohexane
Concen: 0.15 ug/L
RT: 5.395 min Scan# 1261
Delta R.T. -0.003 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Tgt Ion: 56 Resp: 4006
Ion Ratio Lower Upper
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69 27.7 24.8 37.2
84 90.4 66.8 100.2

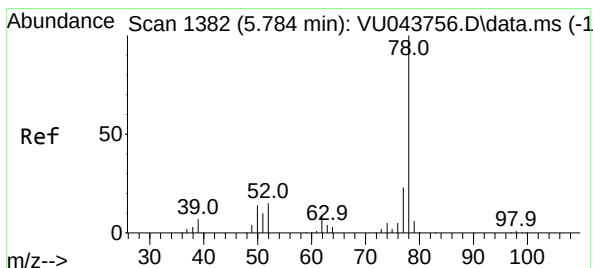
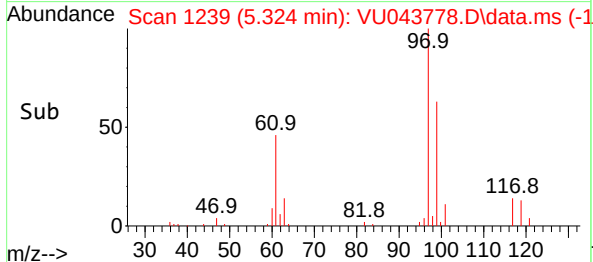
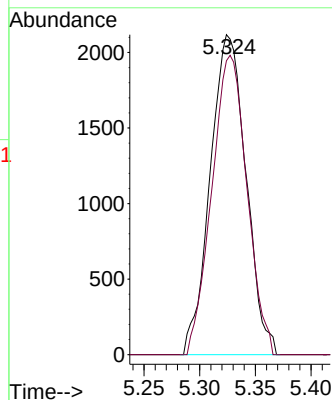
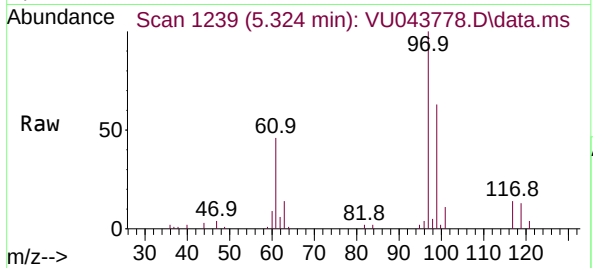




#31
Carbon tetrachloride
Concen: 0.24 ug/L
RT: 5.324 min Scan# 1239
Delta R.T. -0.209 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

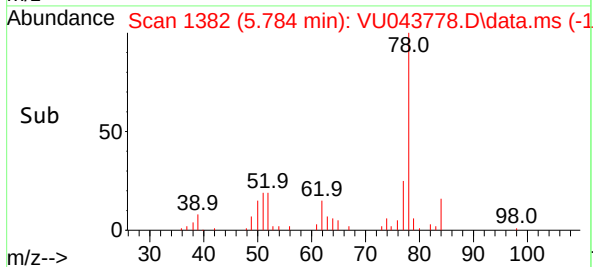
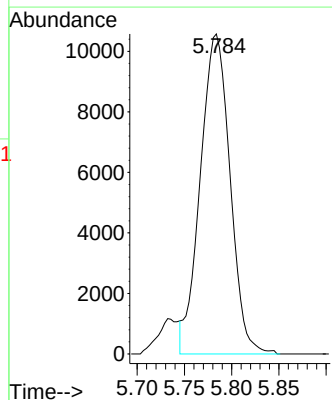
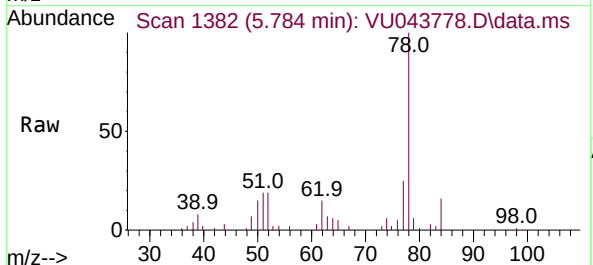
Instrument :
MSVOA_U
ClientSampled :

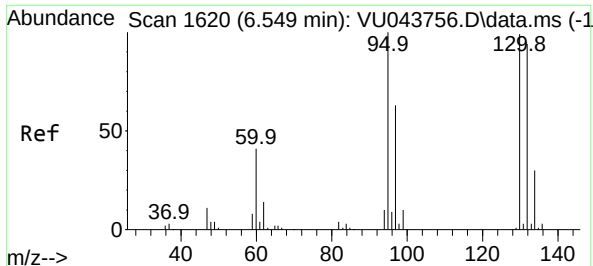
Tgt Ion:117 Resp: 4732
Ion Ratio Lower Upper
117 100
119 91.8 77.4 116.0



#33
Benzene
Concen: 0.35 ug/L
RT: 5.784 min Scan# 1382
Delta R.T. 0.000 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Tgt Ion: 78 Resp: 23148



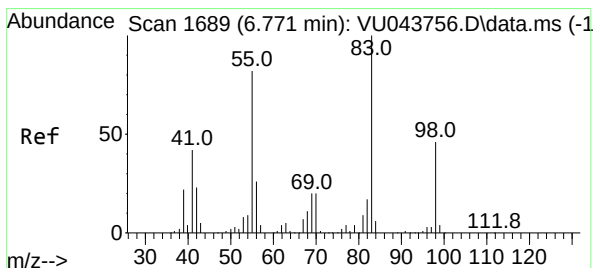
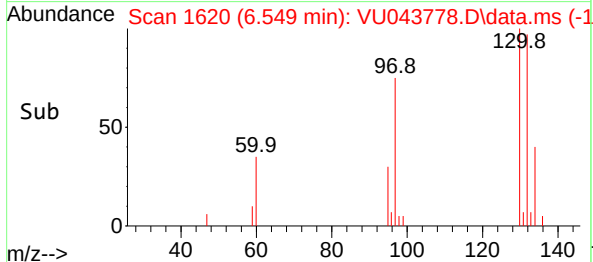
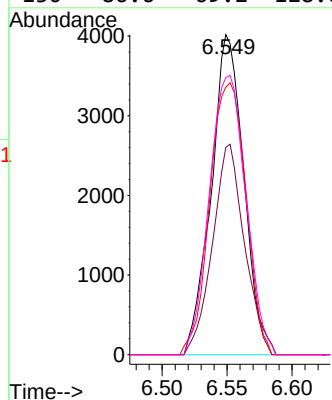
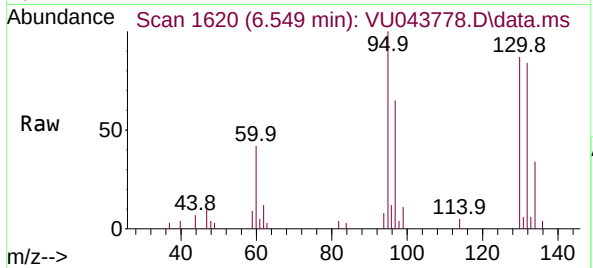


#34
Trichloroethene
Concen: 0.42 ug/L
RT: 6.549 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 95 Resp: 7017

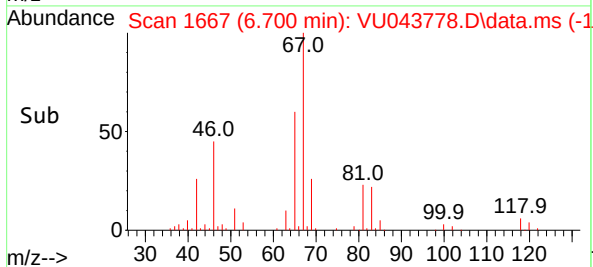
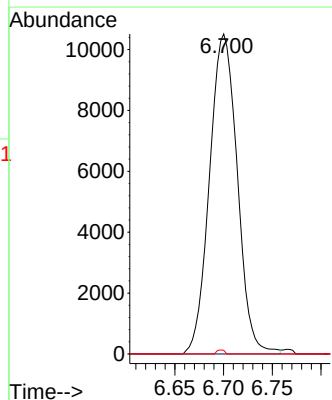
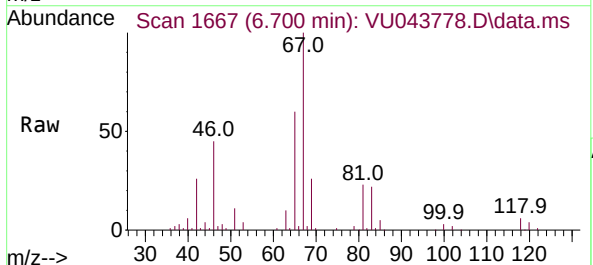
Ion	Ratio	Lower	Upper
95	100		
97	64.8	44.3	82.3
132	83.6	66.0	122.6
130	86.6	69.2	128.6

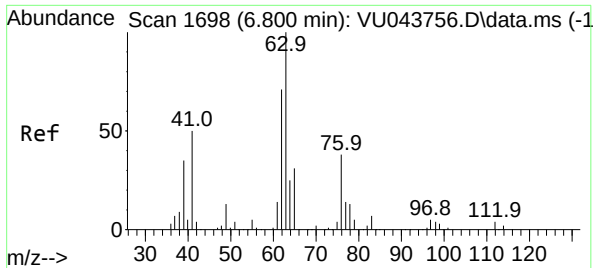


#35
Methylcyclohexane
Concen: 0.79 ug/L
RT: 6.700 min Scan# 1667
Delta R.T. -0.071 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Tgt Ion: 83 Resp: 20839

Ion	Ratio	Lower	Upper
83	100		
55	0.0	64.8	97.2#
98	0.3	35.9	53.9#



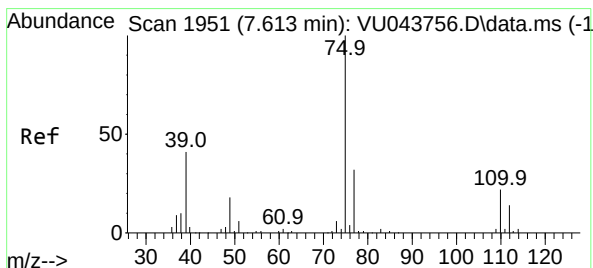
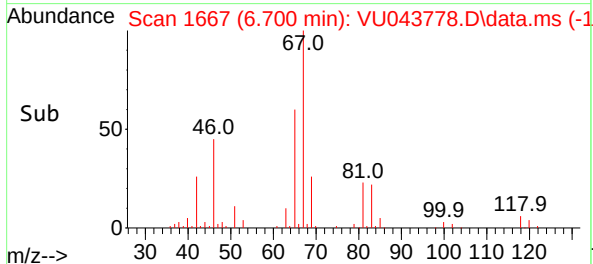
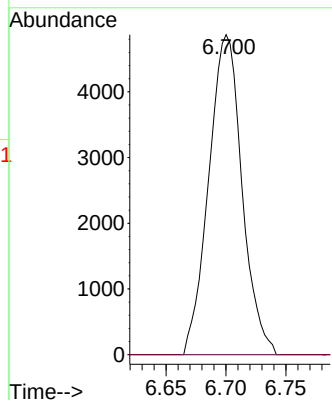
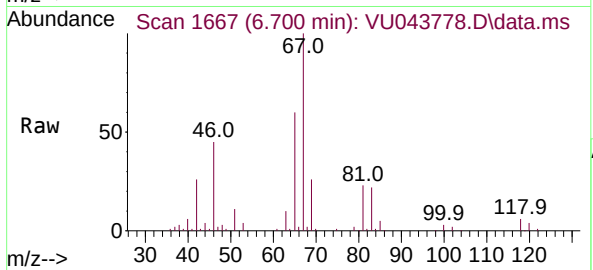


#37

1,2-Dichloropropane
Concen: 0.55 ug/L
RT: 6.700 min Scan# 1667
Delta R.T. -0.100 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Instrument :
MSVOA_U
ClientSampled :

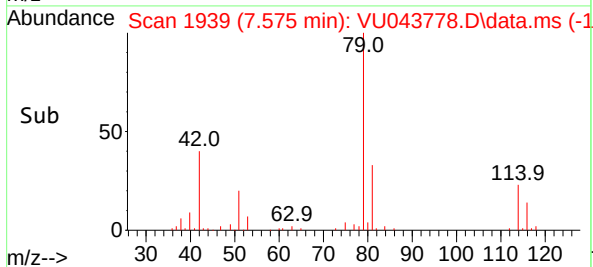
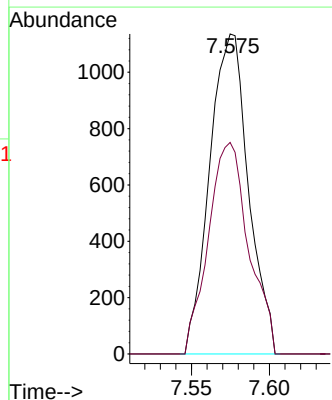
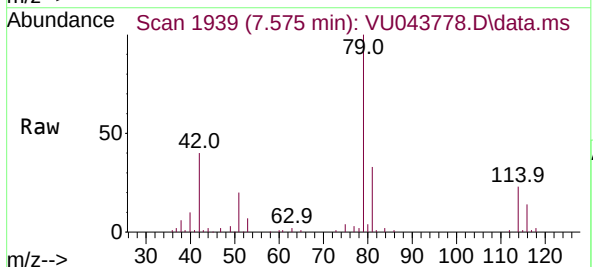
Tgt Ion: 63 Resp: 9404
Ion Ratio Lower Upper
63 100
112 0.0 3.3 4.9#

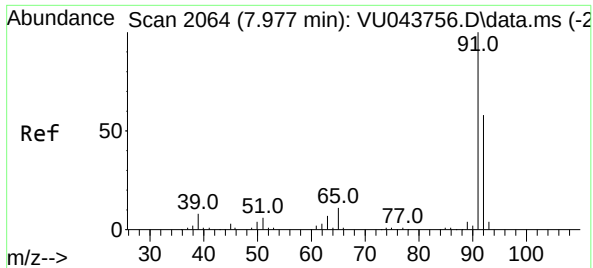


#39

cis-1,3-Dichloropropene
Concen: 0.09 ug/L
RT: 7.575 min Scan# 1939
Delta R.T. -0.038 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Tgt Ion: 75 Resp: 1968
Ion Ratio Lower Upper
75 100
77 66.1 22.5 41.7#

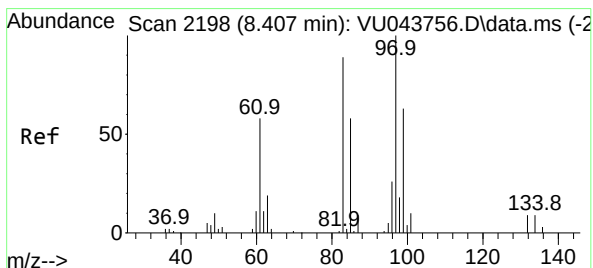
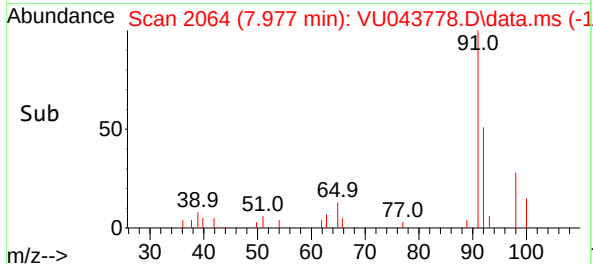
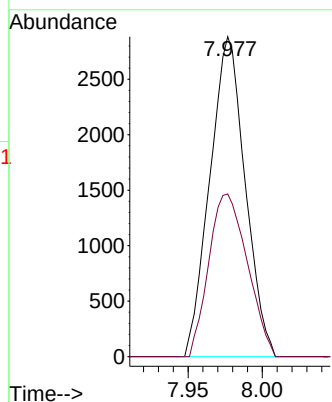
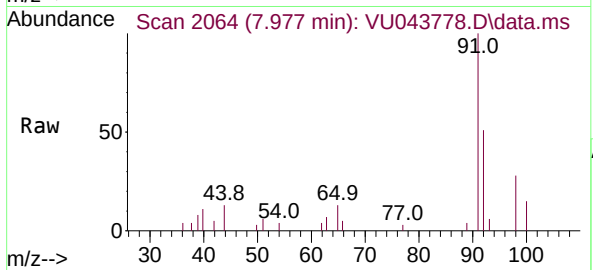




#42
Toluene
Concen: 0.07 ug/L
RT: 7.977 min Scan# 2064
Delta R.T. 0.000 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

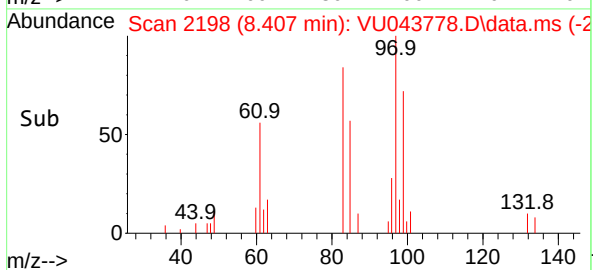
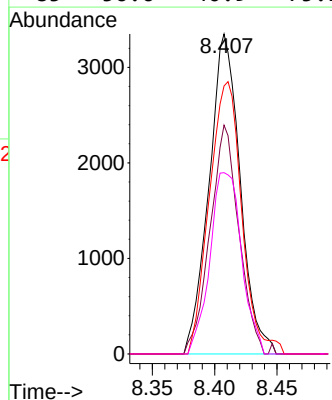
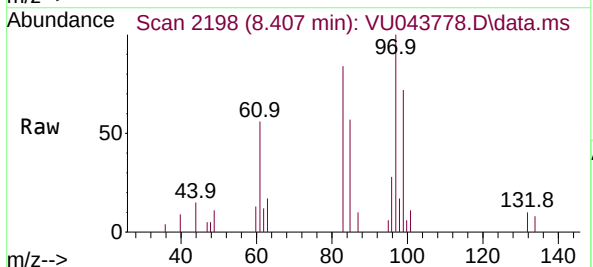
Instrument :
MSVOA_U
ClientSampled :

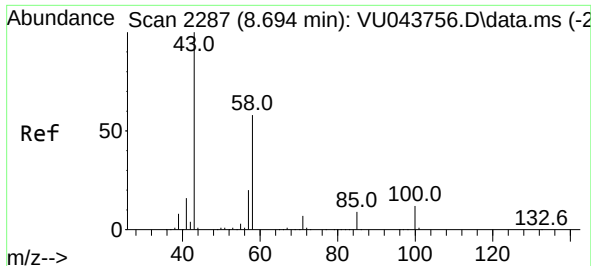
Tgt Ion: 91 Resp: 4761
Ion Ratio Lower Upper
91 100
92 50.9 40.3 74.8



#45
1,1,2-Trichloroethane
Concen: 0.47 ug/L
RT: 8.407 min Scan# 2198
Delta R.T. 0.000 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

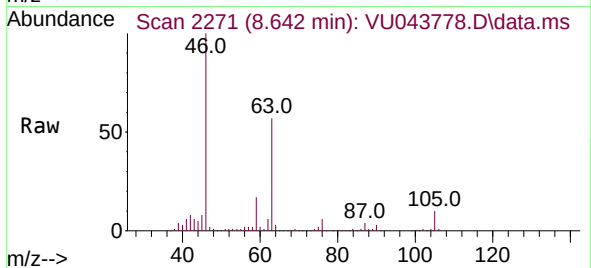
Tgt Ion: 97 Resp: 5823
Ion Ratio Lower Upper
97 100
99 71.5 43.8 81.4
83 83.8 62.5 116.1
85 56.6 40.9 75.9



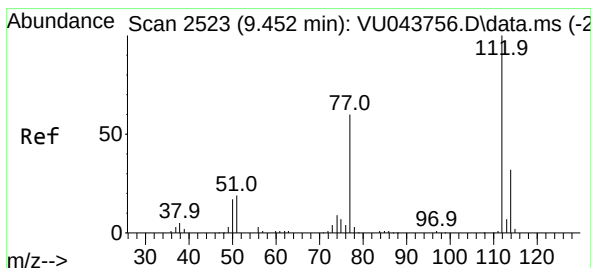
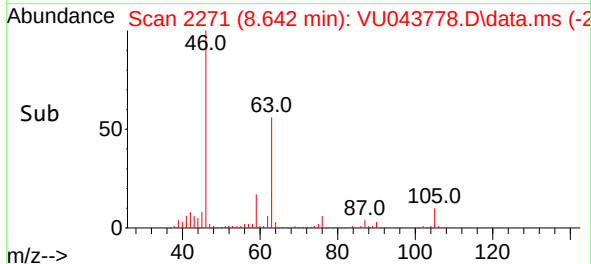
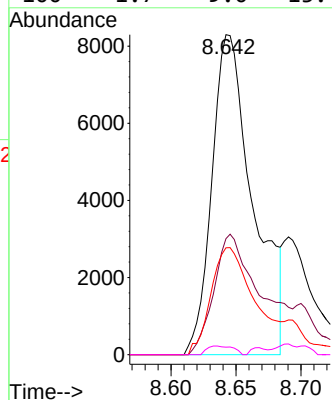


#48
2-Hexanone
Concen: 2.25 ug/L
RT: 8.642 min Scan# 2271
Delta R.T. -0.051 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Instrument :
MSVOA_U
ClientSampleId :

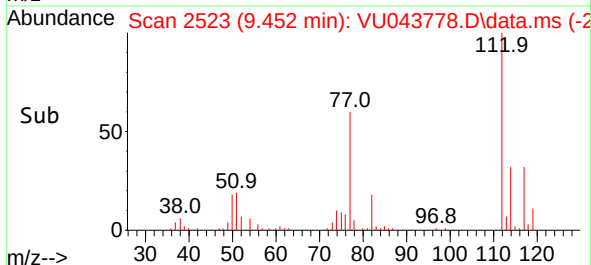
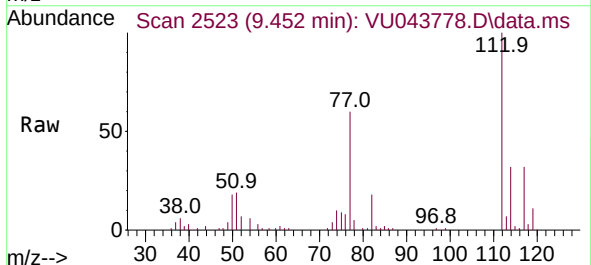
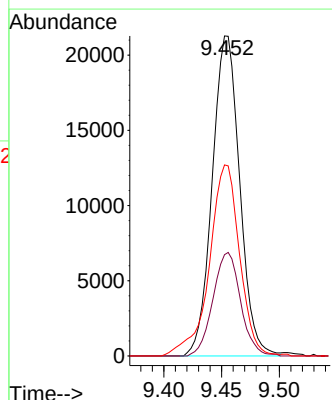


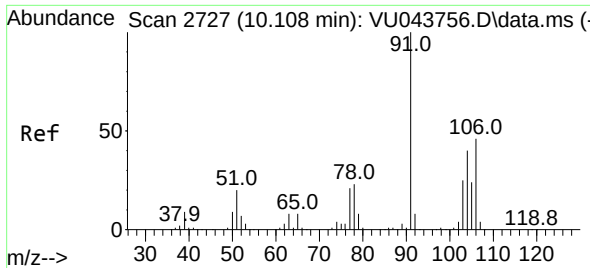
Tgt Ion:	43	Resp:	18310
Ion	Ratio	Lower	Upper
43	100		
58	43.8	47.0	70.4#
57	35.3	15.8	23.8#
100	1.7	9.0	13.4#



#51
Chlorobenzene
Concen: 0.82 ug/L
RT: 9.452 min Scan# 2523
Delta R.T. 0.000 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Tgt Ion:	112	Resp:	35249
Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.3	41.5
77	59.7	47.8	71.8

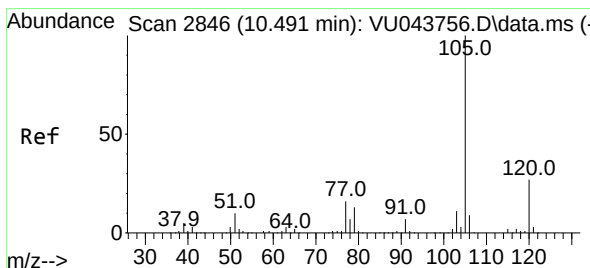
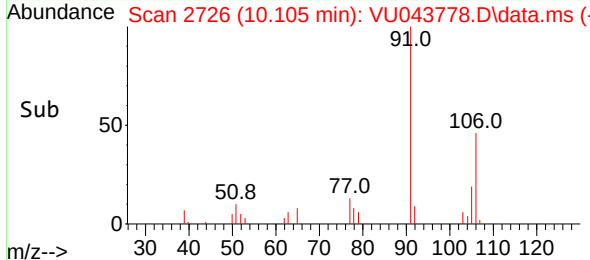
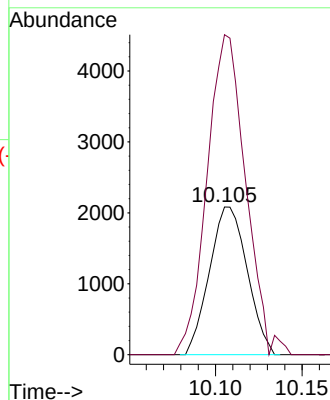
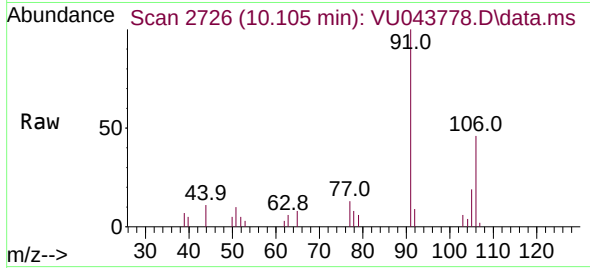




#54
o-Xylene
Concen: 0.12 ug/L
RT: 10.105 min Scan# 2726
Delta R.T. -0.003 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

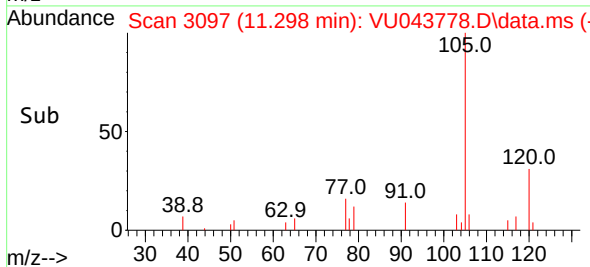
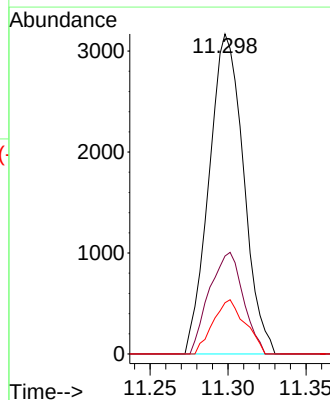
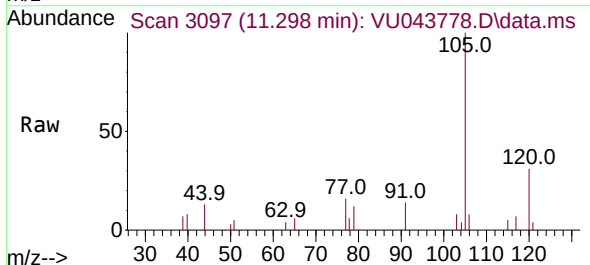
Instrument :
MSVOA_U
ClientSampled :

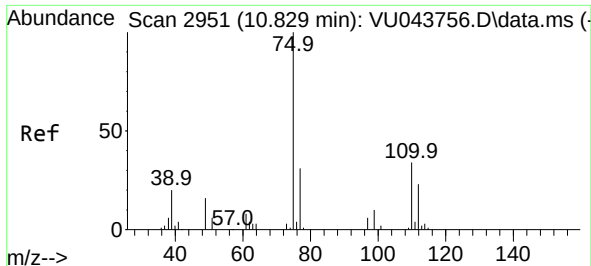
Tgt Ion:106 Resp: 3160
Ion Ratio Lower Upper
106 100
91 216.7 150.8 280.0



#60
Isopropylbenzene
Concen: 0.09 ug/L
RT: 11.298 min Scan# 3097
Delta R.T. 0.807 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Tgt Ion:105 Resp: 4875
Ion Ratio Lower Upper
105 100
120 31.3 21.3 31.9
77 15.8 12.6 19.0

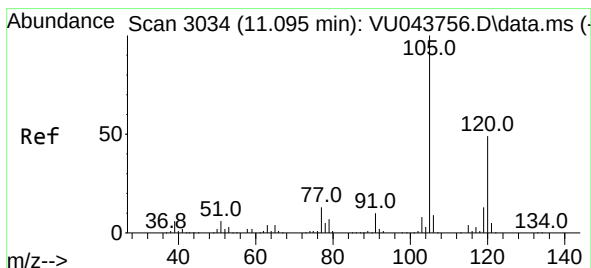
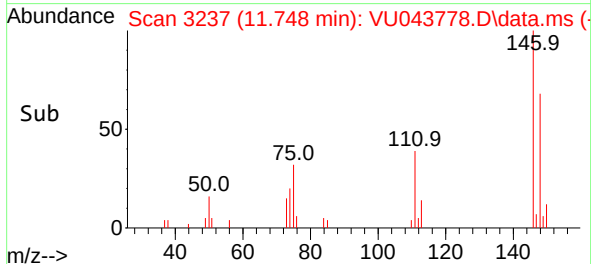
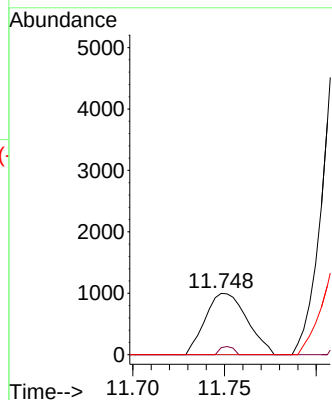
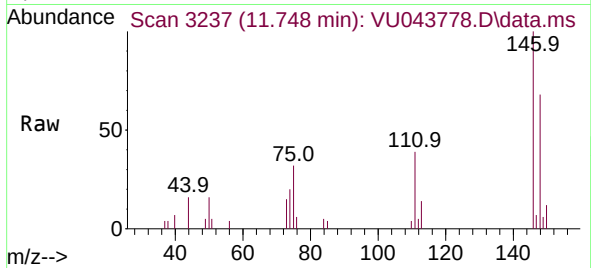




#61
1,2,3-Trichloropropane
Concen: 0.16 ug/L
RT: 11.748 min Scan# 3237
Delta R.T. 0.920 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

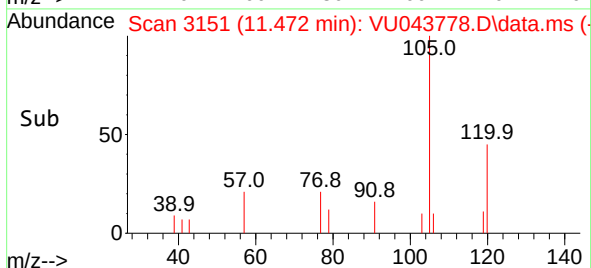
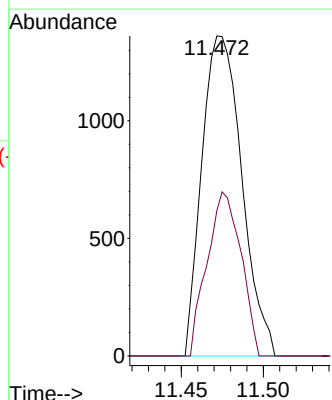
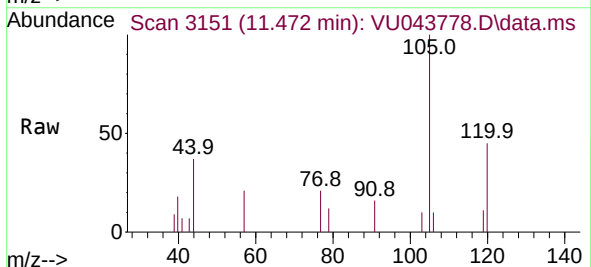
Instrument :
MSVOA_U
ClientSampled :

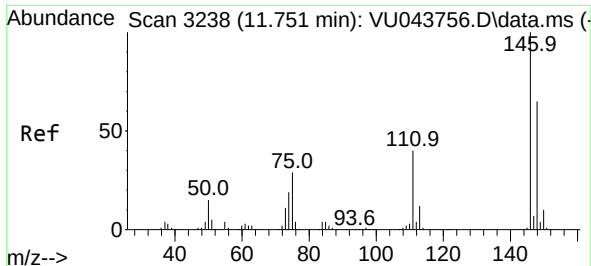
Tgt Ion: 75 Resp: 1582
Ion Ratio Lower Upper
75 100
110 4.3 27.9 41.9#
77 0.0 25.9 38.9#



#62
1,3,5-Trimethylbenzene
Concen: 0.05 ug/L
RT: 11.472 min Scan# 3151
Delta R.T. 0.376 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Tgt Ion: 105 Resp: 2301
Ion Ratio Lower Upper
105 100
120 43.5 38.9 58.3

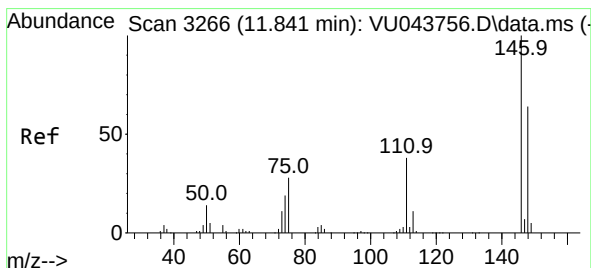
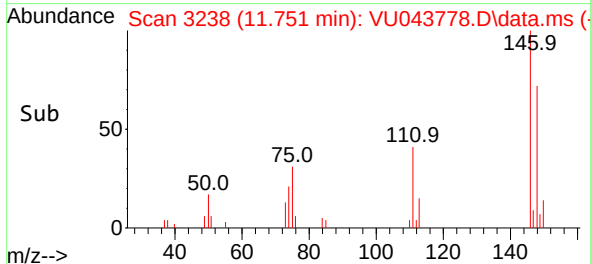
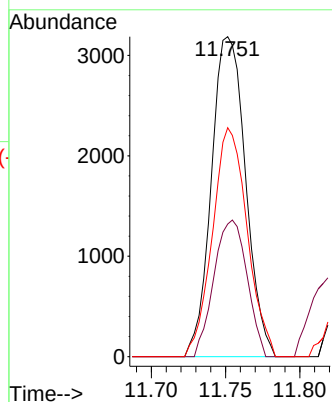
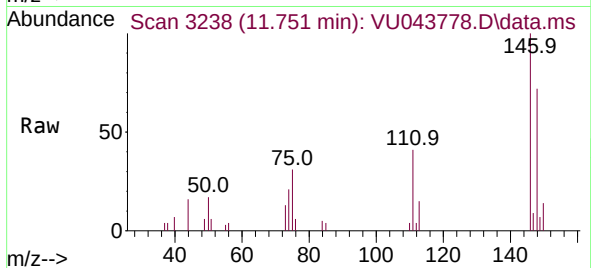




#64
1,3-Dichlorobenzene
Concen: 0.17 ug/L
RT: 11.751 min Scan# 3238
Delta R.T. 0.000 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

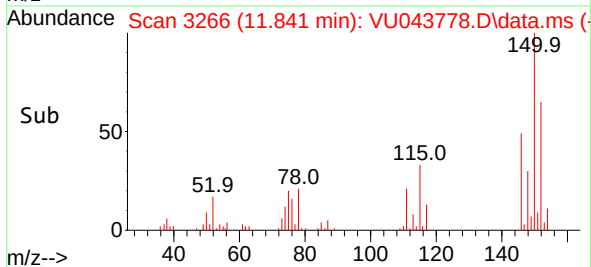
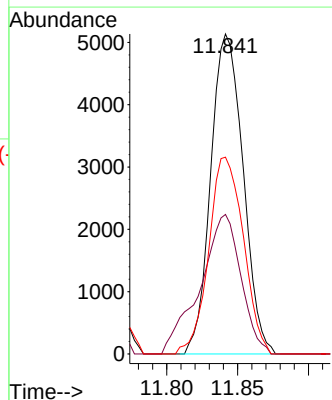
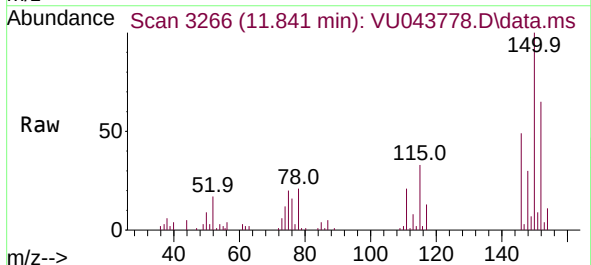
Instrument :
MSVOA_U
ClientSampled :

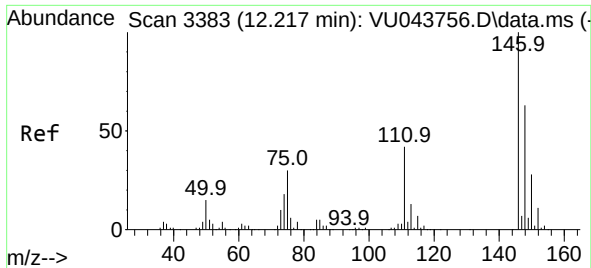
Tgt Ion:146 Resp: 5110
Ion Ratio Lower Upper
146 100
111 41.4 28.1 52.1
148 71.6 45.6 84.6



#65
1,4-Dichlorobenzene
Concen: 0.28 ug/L
RT: 11.841 min Scan# 3266
Delta R.T. 0.000 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Tgt Ion:146 Resp: 8154
Ion Ratio Lower Upper
146 100
111 43.6 27.0 50.2
148 61.5 45.0 83.6

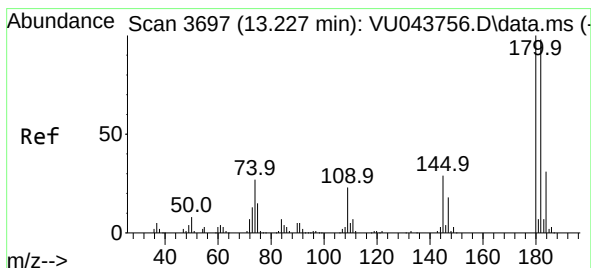
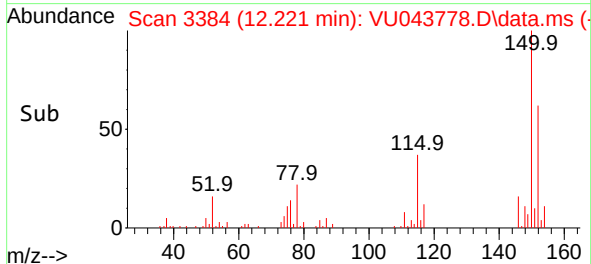
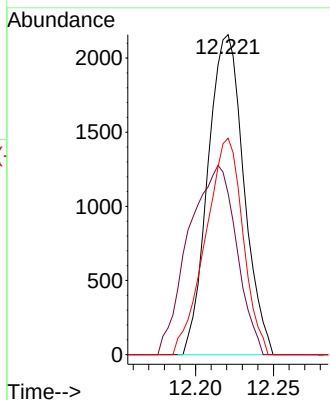
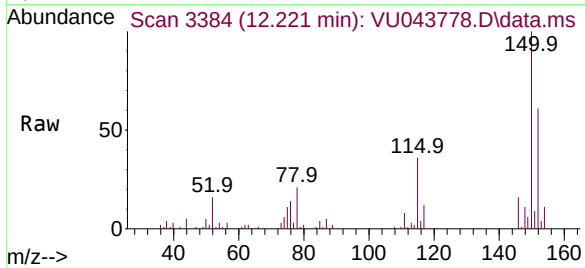




#67
1,2-Dichlorobenzene
Concen: 0.12 ug/L
RT: 12.221 min Scan# 3384
Delta R.T. 0.003 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

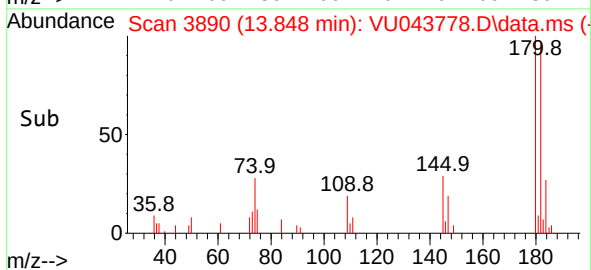
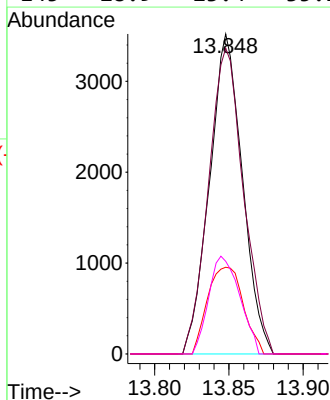
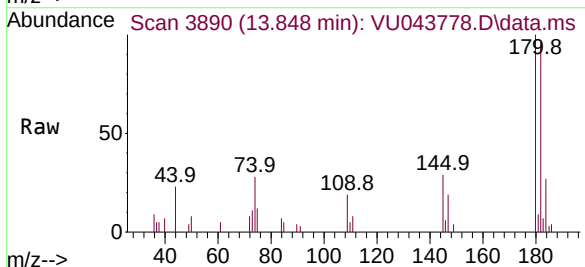
Instrument :
MSVOA_U
ClientSampled :

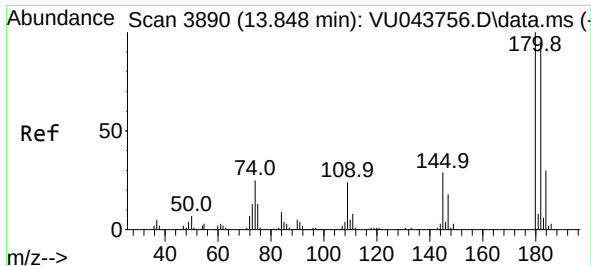
Tgt Ion:146 Resp: 3455
Ion Ratio Lower Upper
146 100
111 50.4 33.6 50.4#
148 67.7 50.2 75.2



#69
1,3,5-Trichlorobenzene
Concen: 0.23 ug/L
RT: 13.848 min Scan# 3890
Delta R.T. 0.621 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

Tgt Ion:180 Resp: 5415
Ion Ratio Lower Upper
180 100
182 101.6 78.2 117.2
184 29.5 24.8 37.2
145 28.9 23.4 35.2

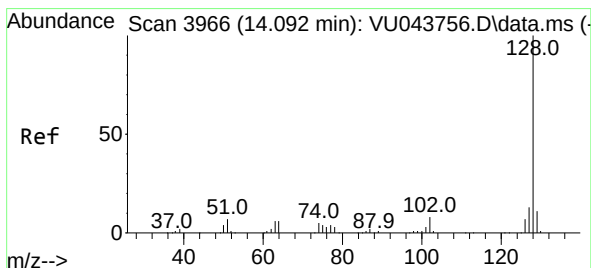
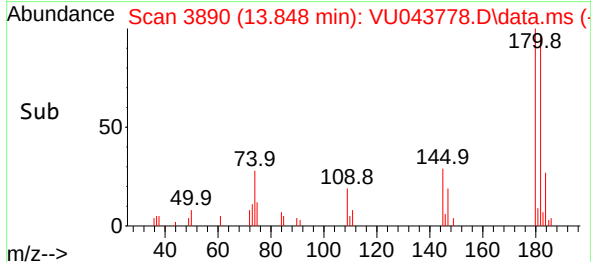
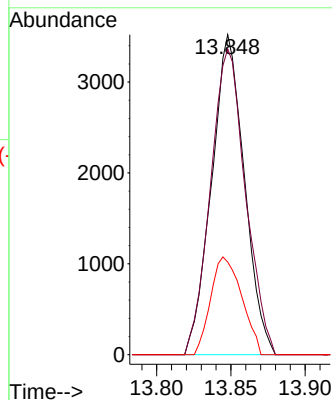
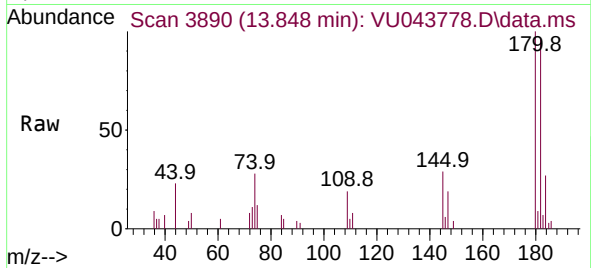




#70
1,2,4-trichlorobenzene
Concen: 0.28 ug/L
RT: 13.848 min Scan# 3890
Delta R.T. 0.000 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

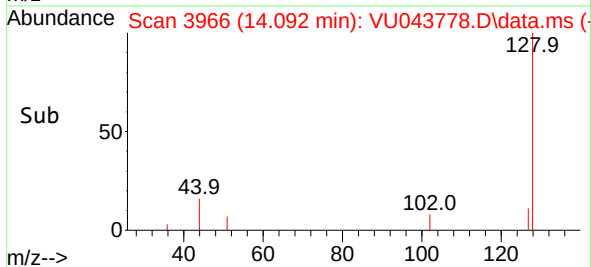
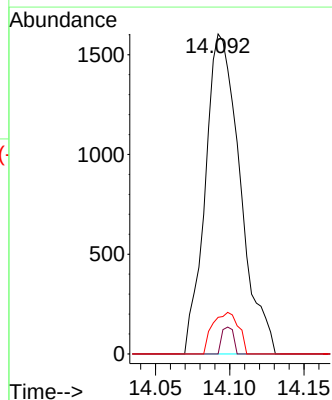
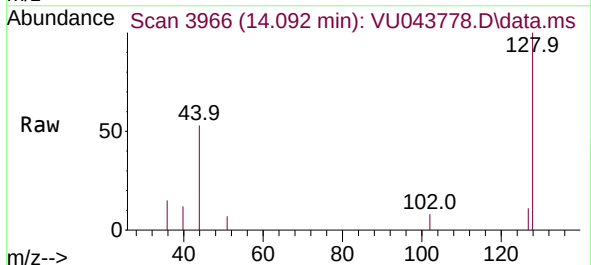
Instrument :
MSVOA_U
ClientSampled :

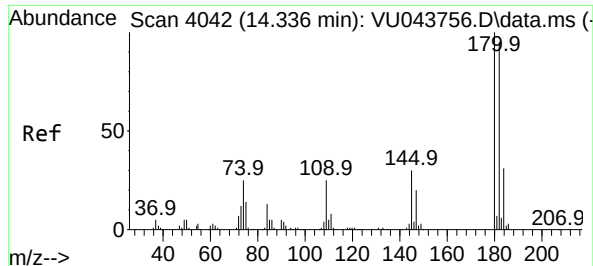
Tgt Ion:	180	Resp:	5415
Ion Ratio	Lower	Upper	
180	100		
182	101.6	76.9	115.3
145	28.9	23.0	34.4



#71
Naphthalene
Concen: 0.08 ug/L
RT: 14.092 min Scan# 3966
Delta R.T. 0.000 min
Lab File: VU043778.D
Acq: 15 May 2021 00:40

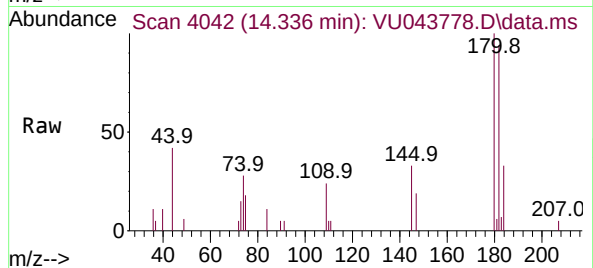
Tgt Ion:	128	Resp:	2608
Ion Ratio	Lower	Upper	
128	100		
129	2.8	8.7	13.1#
127	9.7	10.2	15.4#





#72
 1,2,3-Trichlorobenzene
 Concen: 0.18 ug/L
 RT: 14.336 min Scan# 4042
 Delta R.T. 0.000 min
 Lab File: VU043778.D
 Acq: 15 May 2021 00:40

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	180	Resp:	3348
Ion Ratio	Lower	Upper	
180	100		
182	88.2	77.0	115.4
145	30.0	24.6	36.8

