

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU051521\
 Data File : VU043777.D
 Acq On : 15 May 2021 00:16
 Operator : SY/MD
 Sample : M2380-04
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 15 01:21:13 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	235108	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	231609	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	110741	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	84413	4.87	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.40%
7) Chloroethane-d5	1.919	69	62208	5.14	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.80%
11) 1,1-Dichloroethene-d2	2.572	65	35363	4.92	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	98.40%
20) 2-Butanone-d5	4.646	46	159654	48.44	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.88%
24) Chloroform-d	5.073	84	138690	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.40%
26) 1,2-Dichloroethane-d4	5.713	65	71738	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%
32) Benzene-d6	5.736	84	292910	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
36) 1,2-Dichloropropane-d6	6.700	67	92697	4.95	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.00%
41) Toluene-d8	7.906	98	249082	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.60%
43) trans-1,3-Dichloroprop...	8.186	79	31650	4.55	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.00%
46) 2-Hexanone-d5	8.642	63	153870	49.09	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.18%
56) 1,1,2,2-Tetrachloroeth...	10.764	84	73615	4.79	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.80%
66) 1,2-Dichlorobenzene-d4	12.202	152	93817	5.08	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.60%
Target Compounds						
					Qvalue	
3) Chloromethane	1.523	50	16943	0.84	ug/L	99
5) Vinyl chloride	1.607	62	107928	5.41	ug/L	97
12) 1,1-Dichloroethene	2.585	96	3969	0.26	ug/L #	1
14) Carbon disulfide	2.800	76	14119	0.27	ug/L	97
17) Methyl tert-butyl Ether	3.372	73	5974	0.17	ug/L #	1
18) trans-1,2-Dichloroethene	3.363	96	4785	0.29	ug/L	95
19) 1,1-Dichloroethane	3.880	63	142289	4.83	ug/L	99
22) cis-1,2-Dichloroethene	4.674	96	119116	6.95	ug/L	99
25) Chloroform	5.099	83	22794	0.78	ug/L	94
27) 1,2-Dichloroethane	5.803	62	16965	0.94	ug/L	96
29) 1,1,1-Trichloroethane	5.324	97	11659	0.48	ug/L	97
30) Cyclohexane	5.398	56	4699	0.18	ug/L	100
31) Carbon tetrachloride	5.321	117	1594	0.08	ug/L	95
33) Benzene	5.784	78	22558	0.34	ug/L	100
34) Trichloroethene	6.552	95	4881	0.28	ug/L	92
35) Methylcyclohexane	6.700	83	20624	0.77	ug/L #	17
37) 1,2-Dichloropropane	6.700	63	9413	0.54	ug/L #	88
42) Toluene	7.973	91	7219	0.10	ug/L	93
45) 1,1,2-Trichloroethane	8.407	97	9050	0.72	ug/L	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU051521\
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 ALS Vial : 26 Sample Multiplier: 1

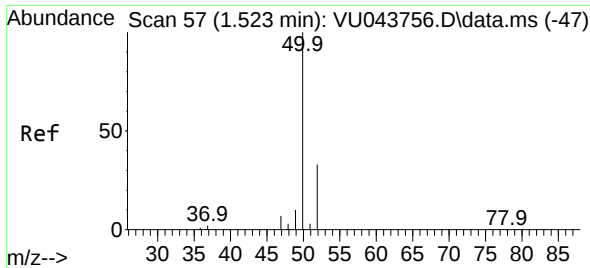
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 15 01:21:13 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)

51) Chlorobenzene	9.452	112	43674	0.99	ug/L	98
54) o-Xylene	10.105	106	3809	0.15	ug/L	97
60) Isopropylbenzene	11.301	105	7661	0.13	ug/L	94
61) 1,2,3-Trichloropropane	11.751	75	1401	0.13	ug/L #	28
63) 1,2,4-Trimethylbenzene	11.475	105	8142	0.16	ug/L	96
64) 1,3-Dichlorobenzene	11.755	146	4344	0.14	ug/L	95
65) 1,4-Dichlorobenzene	11.841	146	8771	0.28	ug/L	94
67) 1,2-Dichlorobenzene	12.218	146	3929	0.13	ug/L	92
69) 1,3,5-Trichlorobenzene	13.848	180	2228	0.09	ug/L	96
70) 1,2,4-trichlorobenzene	13.848	180	2228	0.11	ug/L	96
71) Naphthalene	14.095	128	9180	0.25	ug/L	97
72) 1,2,3-Trichlorobenzene	14.336	180	890	0.05	ug/L #	92

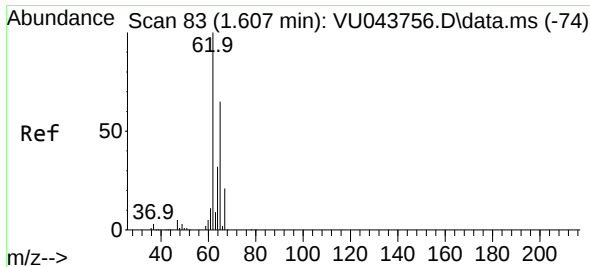
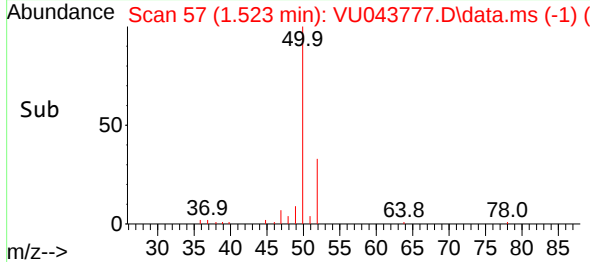
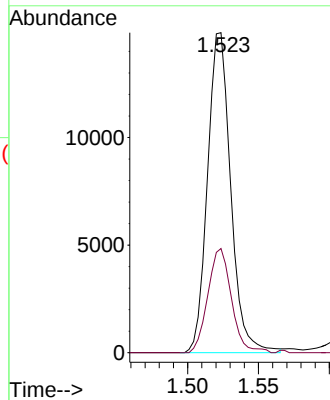
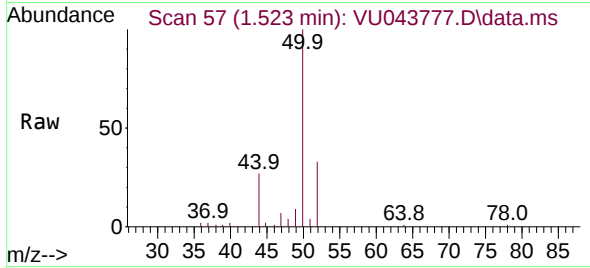
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#3
Chloromethane
Concen: 0.84 ug/L
RT: 1.523 min Scan# 57
Delta R.T. 0.000 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

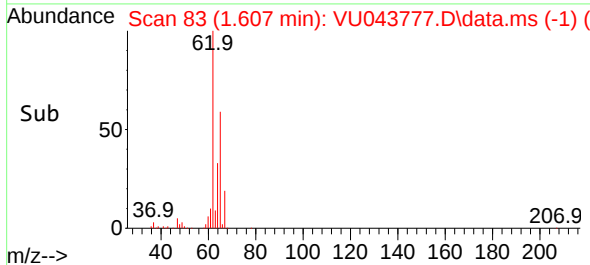
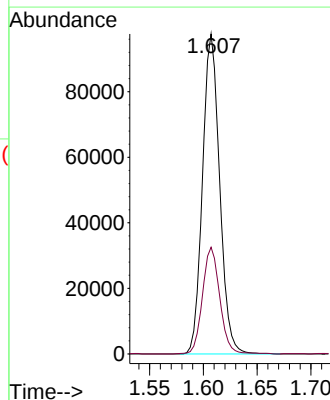
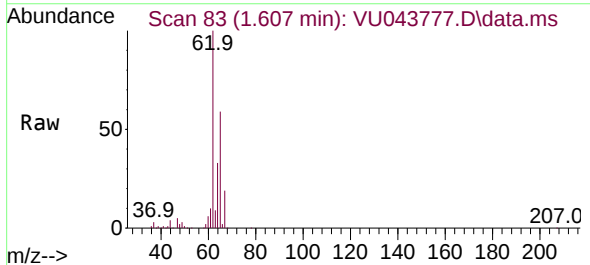
Instrument :
MSVOA_U
ClientSampled :

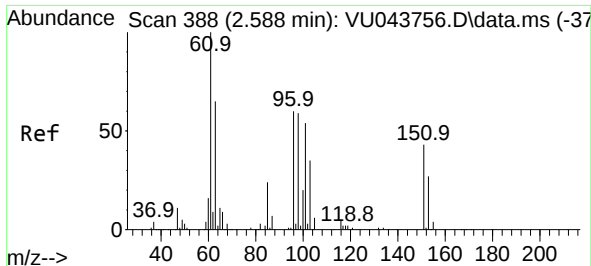
Tgt Ion: 50 Resp: 16943
Ion Ratio Lower Upper
50 100
52 32.6 23.2 43.2



#5
Vinyl chloride
Concen: 5.41 ug/L
RT: 1.607 min Scan# 83
Delta R.T. 0.000 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Tgt Ion: 62 Resp: 107928
Ion Ratio Lower Upper
62 100
64 33.4 22.1 41.1





#12

1,1-Dichloroethene

Concen: 0.26 ug/L

RT: 2.585 min Scan# 387

Delta R.T. -0.003 min

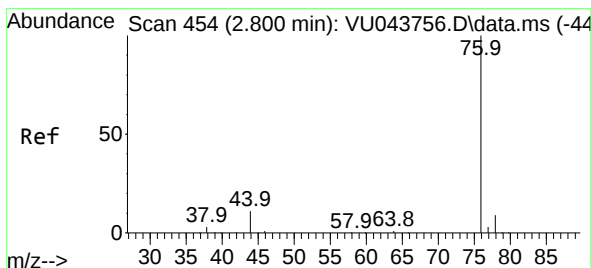
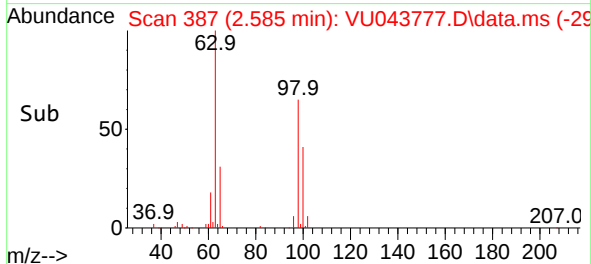
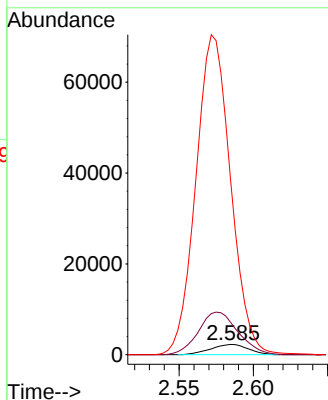
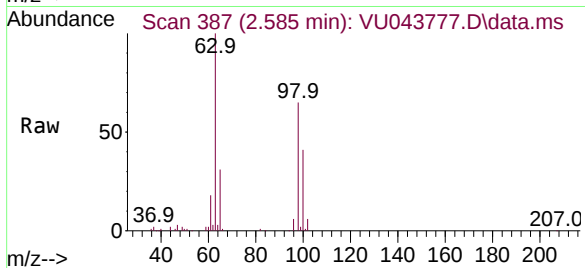
Lab File: VU043777.D

Acq: 15 May 2021 00:16

Tgt Ion: 96 Resp: 3969

Ion	Ratio	Lower	Upper
96	100		
61	321.1	117.5	218.1#
63	1739.7	77.3	143.7#

Instrument :
MSVOA_U
ClientSampled :



#14

Carbon disulfide

Concen: 0.27 ug/L

RT: 2.800 min Scan# 454

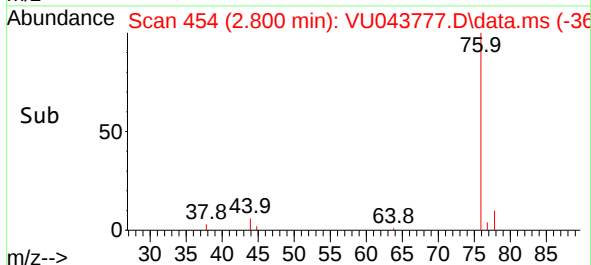
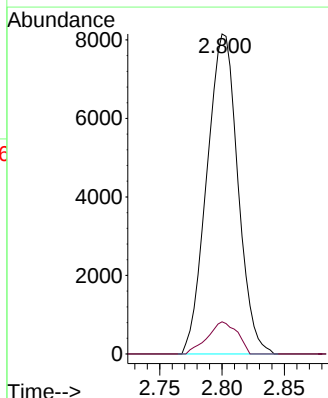
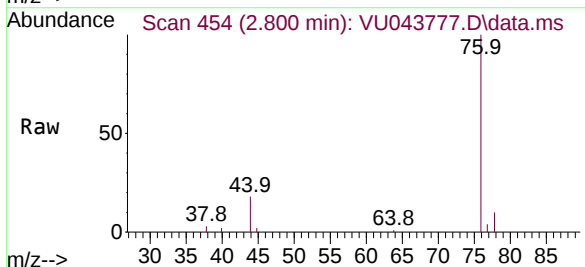
Delta R.T. 0.000 min

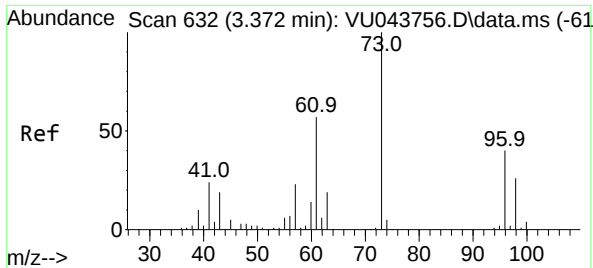
Lab File: VU043777.D

Acq: 15 May 2021 00:16

Tgt Ion: 76 Resp: 14119

Ion	Ratio	Lower	Upper
76	100		
78	10.1	7.2	10.8



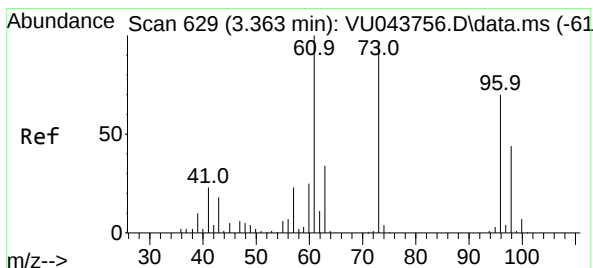
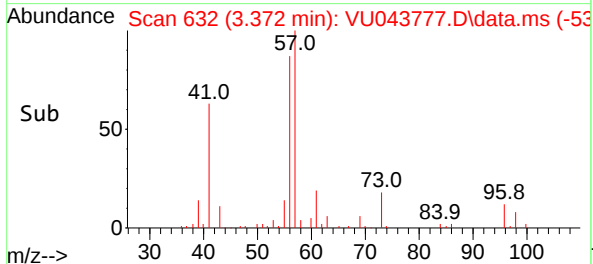
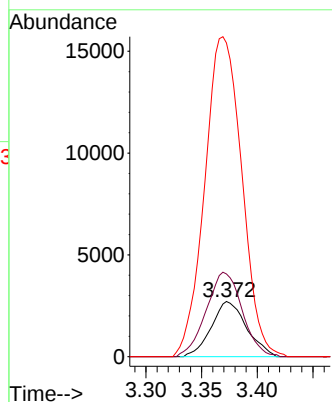
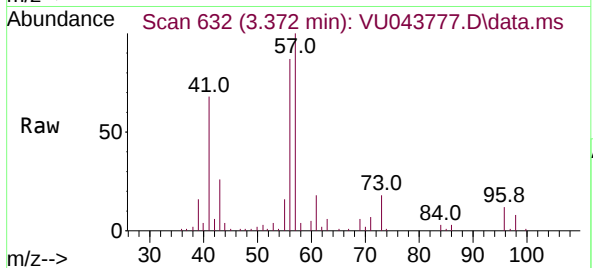


#17

Methyl tert-butyl Ether
 Concen: 0.17 ug/L
 RT: 3.372 min Scan# 632
 Delta R.T. 0.000 min
 Lab File: VU043777.D
 Acq: 15 May 2021 00:16

Instrument :
 MSVOA_U
 ClientSampled :

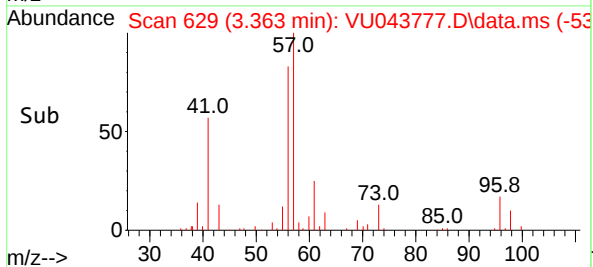
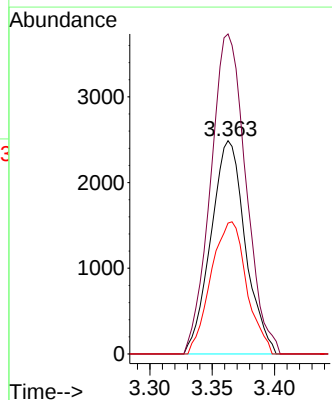
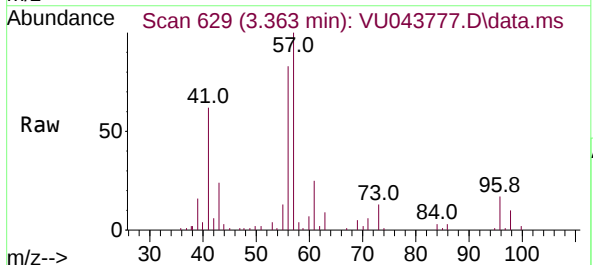
Tgt Ion: 73	Resp: 5974
Ion Ratio	Lower Upper
73 100	
43 155.6	15.0 22.4#
57 609.3	18.6 27.8#

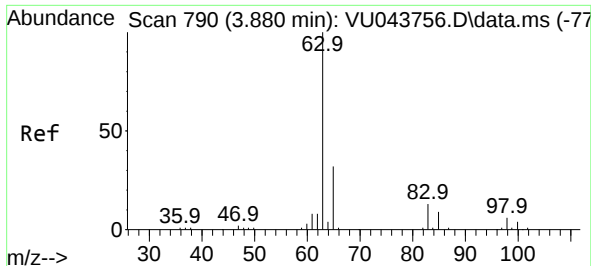


#18

trans-1,2-Dichloroethene
 Concen: 0.29 ug/L
 RT: 3.363 min Scan# 629
 Delta R.T. 0.000 min
 Lab File: VU043777.D
 Acq: 15 May 2021 00:16

Tgt Ion: 96	Resp: 4785
Ion Ratio	Lower Upper
96 100	
61 150.1	99.6 185.0
98 61.4	43.8 81.4





#19

1,1-Dichloroethane

Concen: 4.83 ug/L

RT: 3.880 min Scan# 790

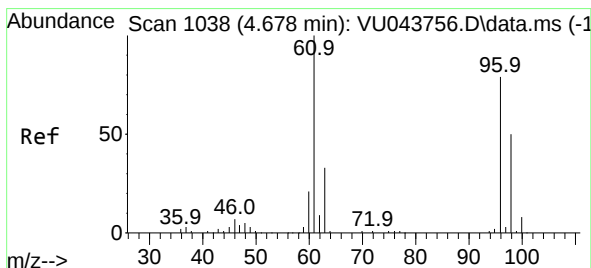
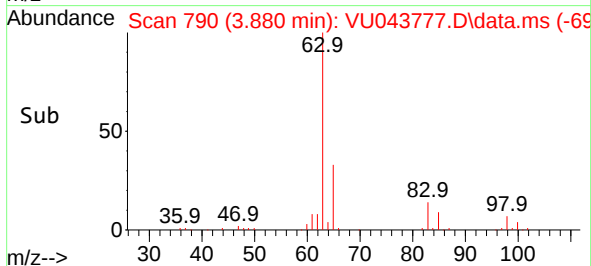
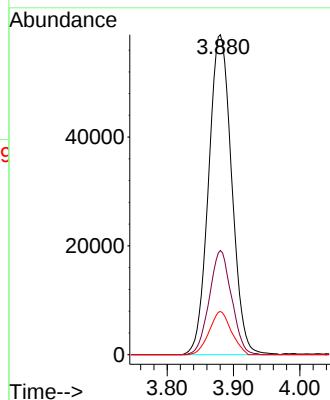
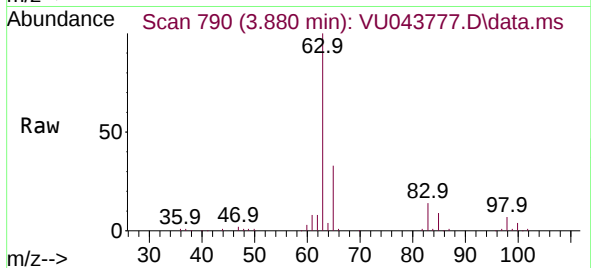
Delta R.T. 0.000 min

Lab File: VU043777.D

Acq: 15 May 2021 00:16

Tgt Ion:	63	Resp:	142289
Ion Ratio	Lower	Upper	
63	100		
65	32.5	22.3	41.3
83	13.5	9.0	16.8

Instrument :
MSVOA_U
ClientSampled :



#22

cis-1,2-Dichloroethene

Concen: 6.95 ug/L

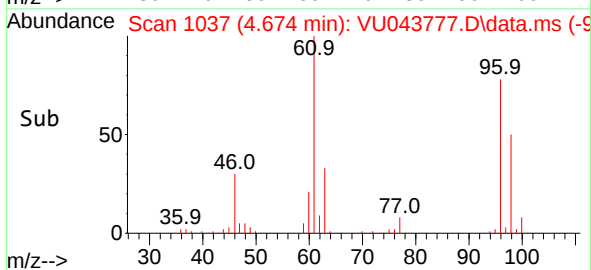
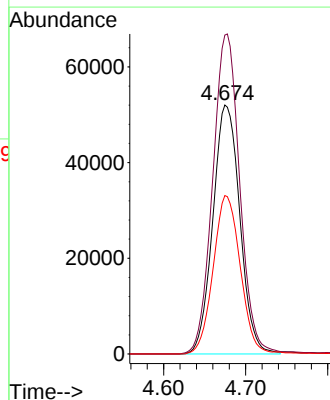
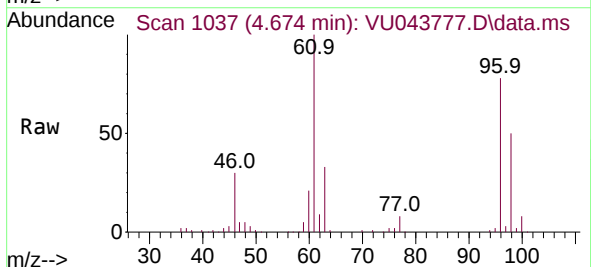
RT: 4.674 min Scan# 1037

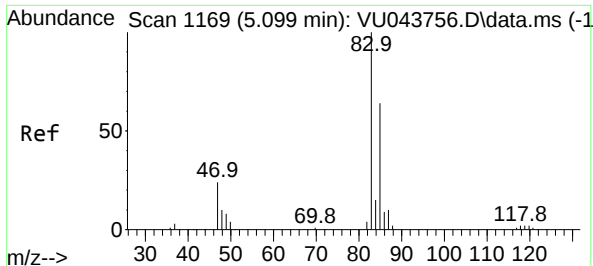
Delta R.T. -0.003 min

Lab File: VU043777.D

Acq: 15 May 2021 00:16

Tgt Ion:	96	Resp:	119116
Ion Ratio	Lower	Upper	
96	100		
61	128.0	89.0	165.4
98	63.6	44.9	83.3



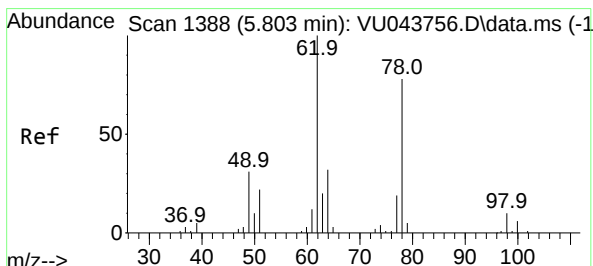
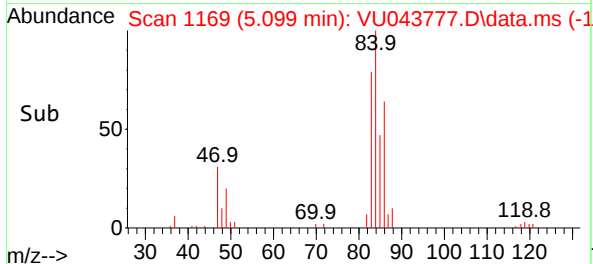
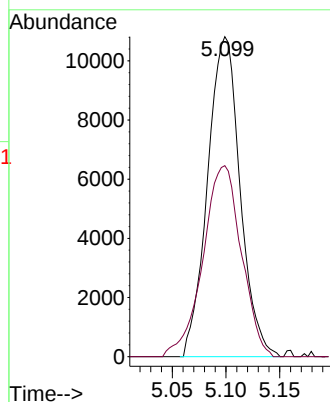
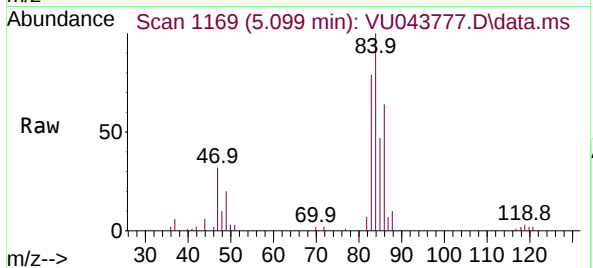


#25

Chloroform
Concen: 0.78 ug/L
RT: 5.099 min Scan# 1169
Delta R.T. 0.000 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Instrument :
MSVOA_U
ClientSampled :

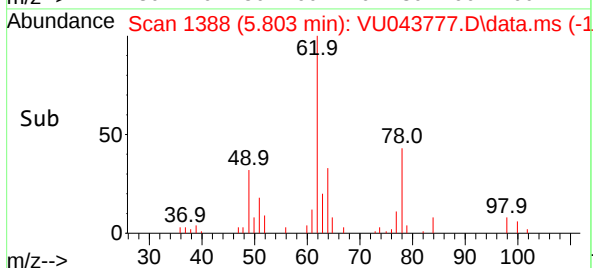
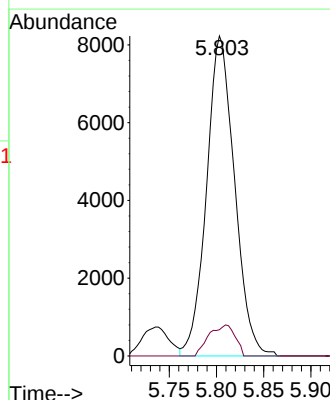
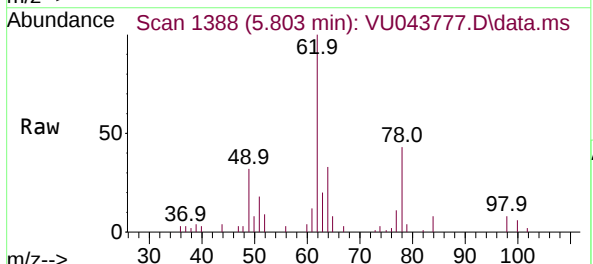
Tgt Ion: 83 Resp: 22794
Ion Ratio Lower Upper
83 100
85 59.7 45.0 83.6

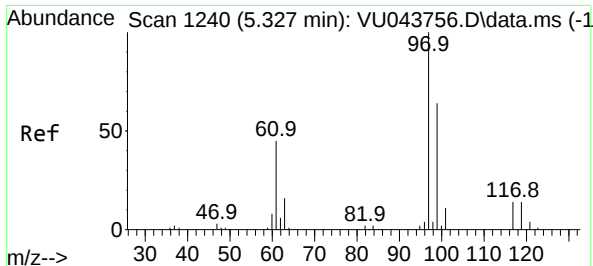


#27

1,2-Dichloroethane
Concen: 0.94 ug/L
RT: 5.803 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Tgt Ion: 62 Resp: 16965
Ion Ratio Lower Upper
62 100
98 8.2 7.7 11.5

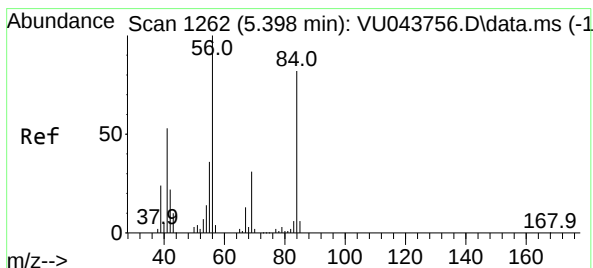
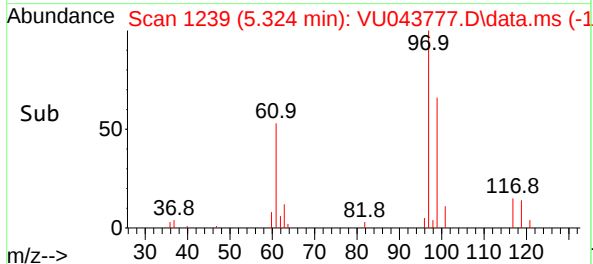
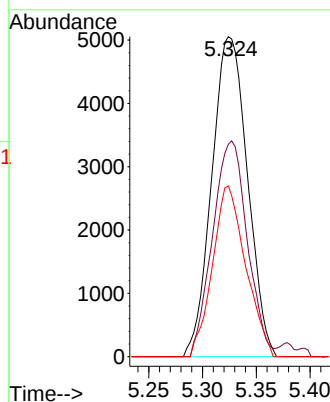
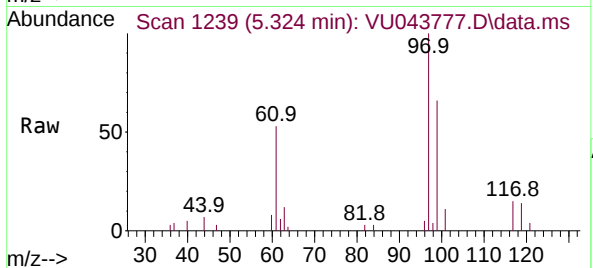




#29
1,1,1-Trichloroethane
Concen: 0.48 ug/L
RT: 5.324 min Scan# 1239
Delta R.T. -0.003 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

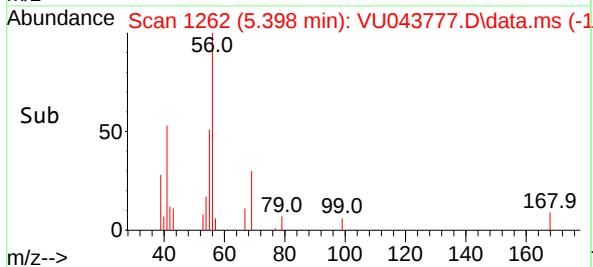
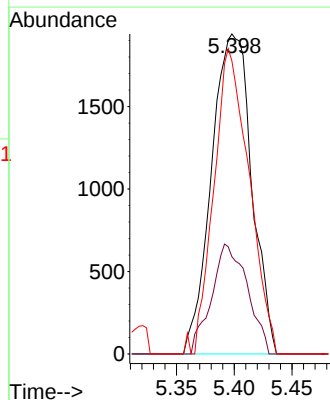
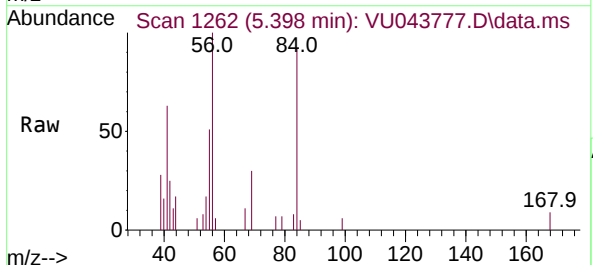
Instrument :
MSVOA_U
ClientSampled :

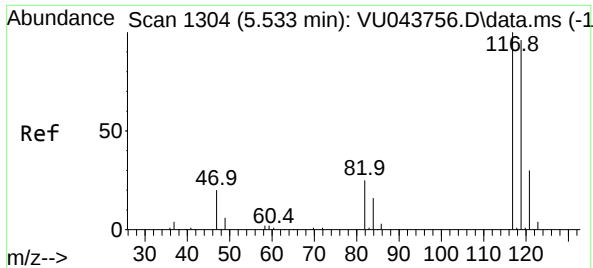
Tgt Ion:	97	Resp:	11659
Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.1	76.7
61	49.6	37.0	55.4



#30
Cyclohexane
Concen: 0.18 ug/L
RT: 5.398 min Scan# 1262
Delta R.T. 0.000 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Tgt Ion:	56	Resp:	4699
Ion	Ratio	Lower	Upper
56	100		
69	30.6	24.8	37.2
84	83.1	66.8	100.2

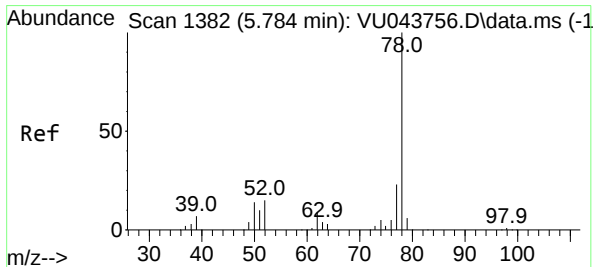
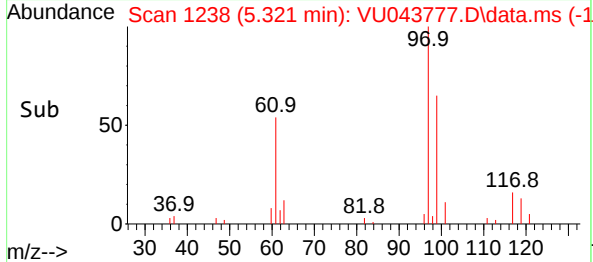
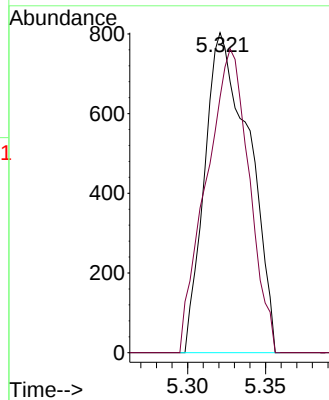
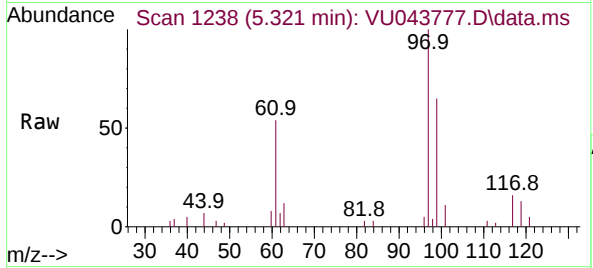




#31
Carbon tetrachloride
Concen: 0.08 ug/L
RT: 5.321 min Scan# 1238
Delta R.T. -0.212 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

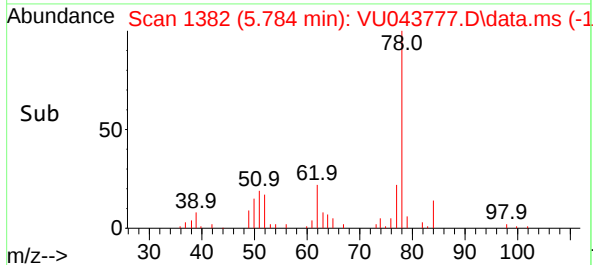
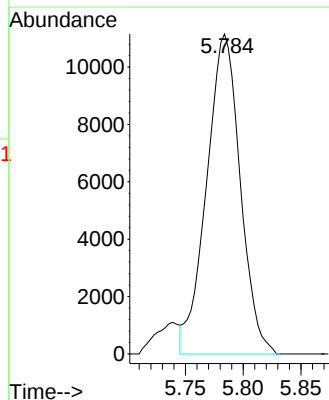
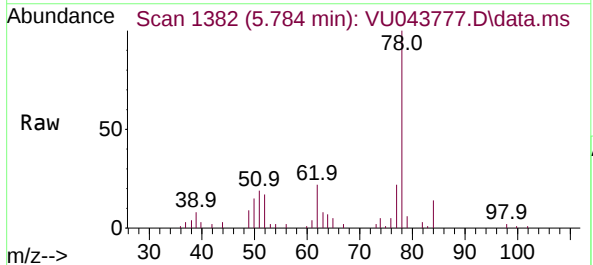
Instrument :
MSVOA_U
ClientSampleId :

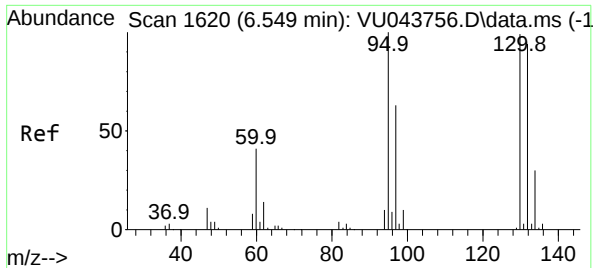
Tgt Ion:117 Resp: 1594
Ion Ratio Lower Upper
117 100
119 91.3 77.4 116.0



#33
Benzene
Concen: 0.34 ug/L
RT: 5.784 min Scan# 1382
Delta R.T. 0.000 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Tgt Ion: 78 Resp: 22558



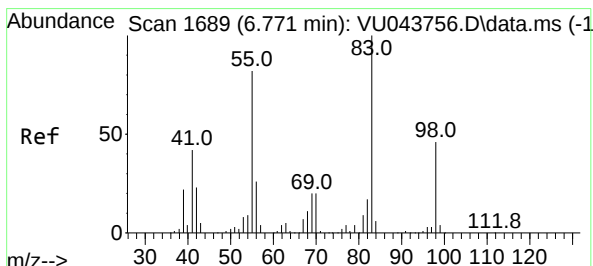
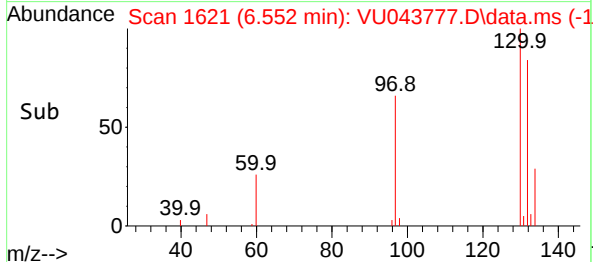
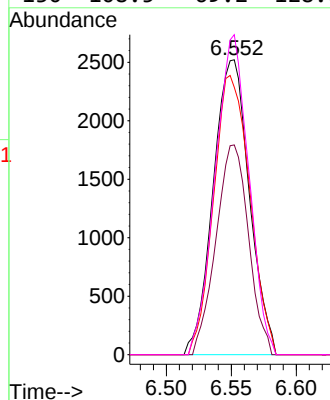
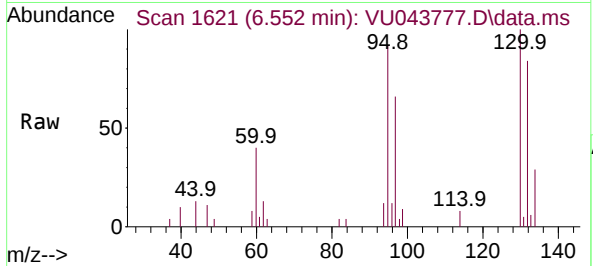


#34
Trichloroethene
Concen: 0.28 ug/L
RT: 6.552 min Scan# 1621
Delta R.T. 0.003 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 95 Resp: 4881

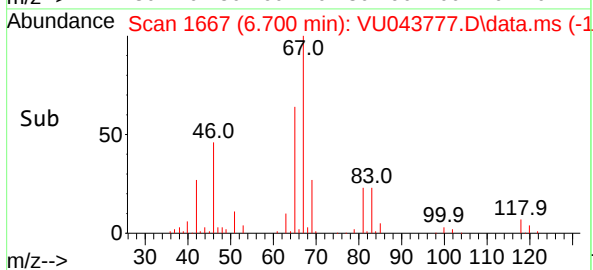
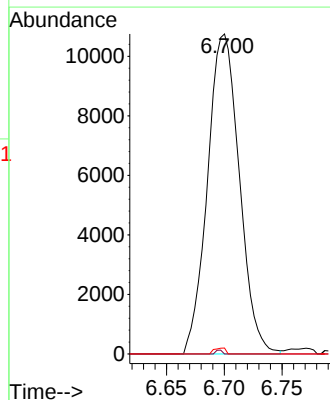
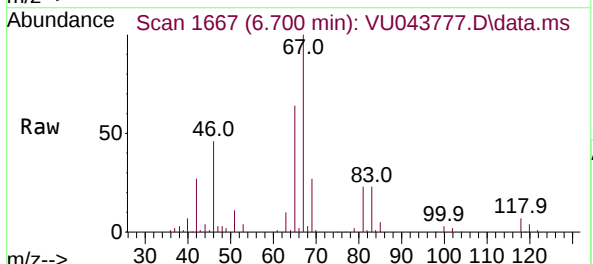
Ion	Ratio	Lower	Upper
95	100		
97	71.1	44.3	82.3
132	90.7	66.0	122.6
130	108.5	69.2	128.6

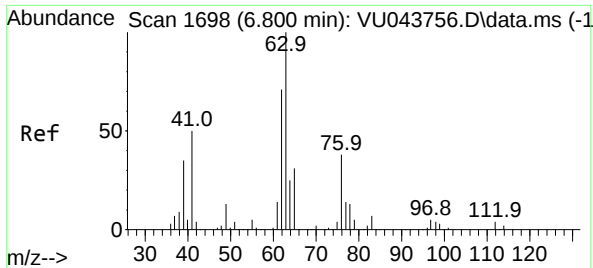


#35
Methylcyclohexane
Concen: 0.77 ug/L
RT: 6.700 min Scan# 1667
Delta R.T. -0.071 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Tgt Ion: 83 Resp: 20624

Ion	Ratio	Lower	Upper
83	100		
55	0.2	64.8	97.2#
98	0.7	35.9	53.9#



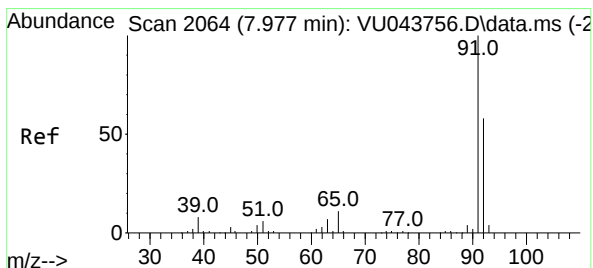
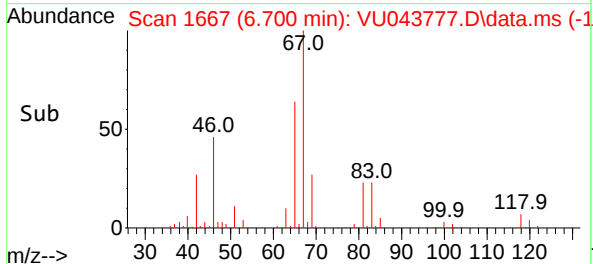
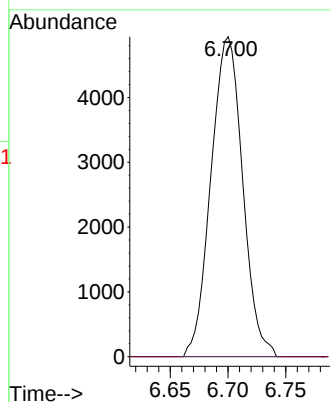
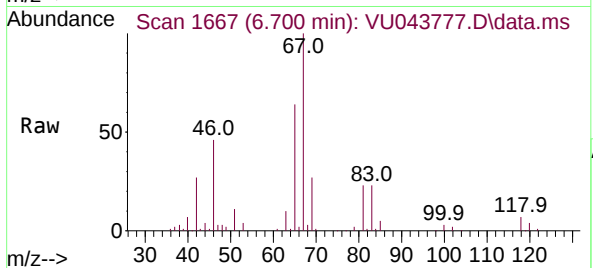


#37

1,2-Dichloropropane
Concen: 0.54 ug/L
RT: 6.700 min Scan# 1667
Delta R.T. -0.100 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Instrument :
MSVOA_U
ClientSampled :

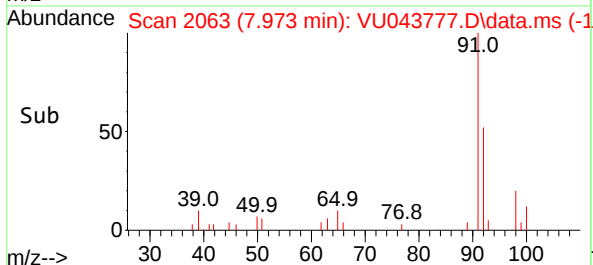
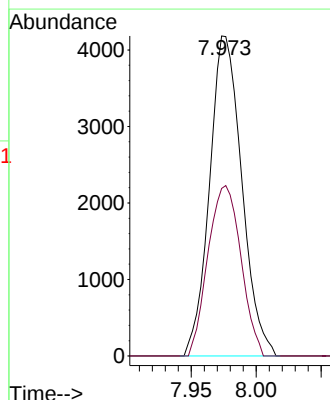
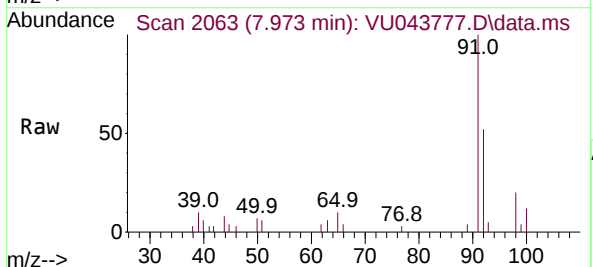
Tgt Ion: 63 Resp: 9413
Ion Ratio Lower Upper
63 100
112 0.0 3.3 4.9#

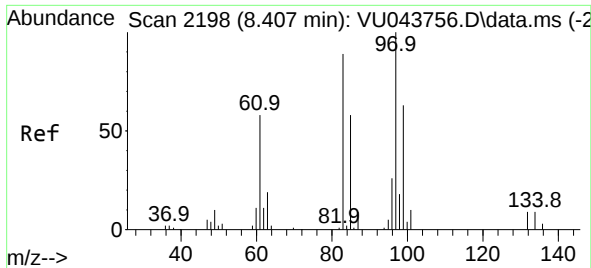


#42

Toluene
Concen: 0.10 ug/L
RT: 7.973 min Scan# 2063
Delta R.T. -0.003 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Tgt Ion: 91 Resp: 7219
Ion Ratio Lower Upper
91 100
92 52.4 40.3 74.8

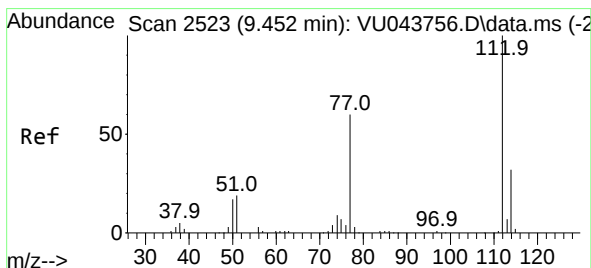
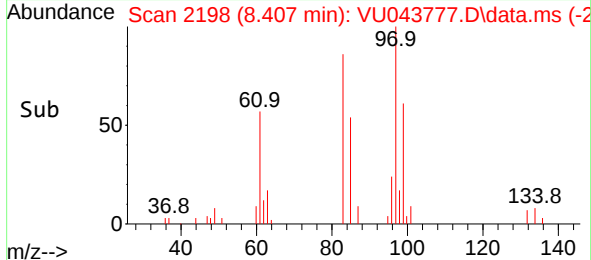
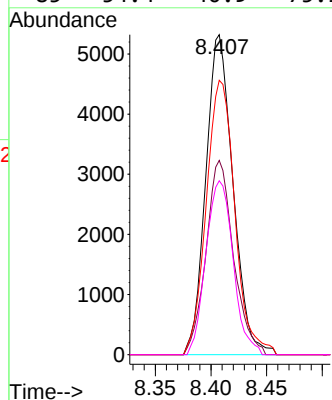
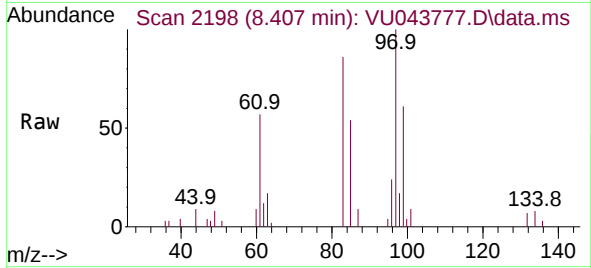




#45
1,1,2-Trichloroethane
Concen: 0.72 ug/L
RT: 8.407 min Scan# 2198
Delta R.T. 0.000 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

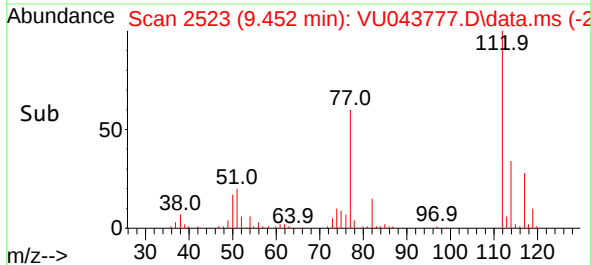
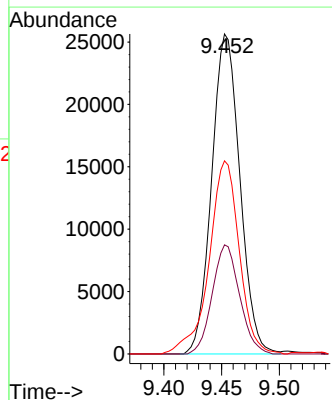
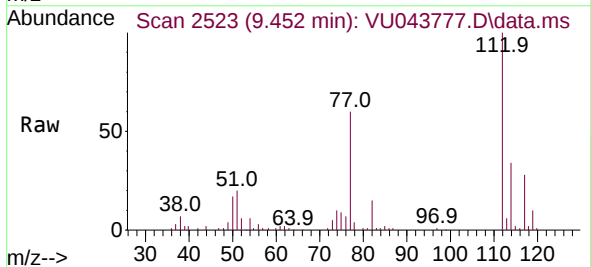
Instrument :
MSVOA_U
ClientSampled :

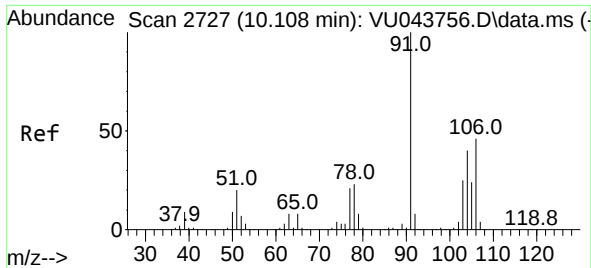
Tgt Ion:	97	Resp:	9050
Ion	Ratio	Lower	Upper
97	100		
99	60.7	43.8	81.4
83	85.8	62.5	116.1
85	54.4	40.9	75.9



#51
Chlorobenzene
Concen: 0.99 ug/L
RT: 9.452 min Scan# 2523
Delta R.T. 0.000 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Tgt Ion:	112	Resp:	43674
Ion	Ratio	Lower	Upper
112	100		
114	34.1	22.3	41.5
77	60.4	47.8	71.8

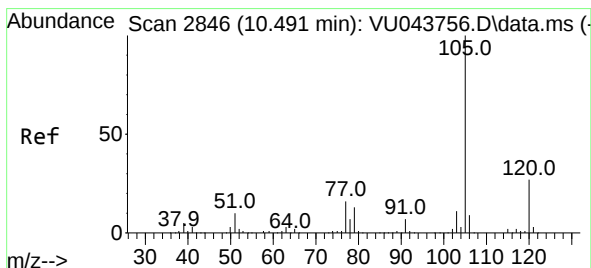
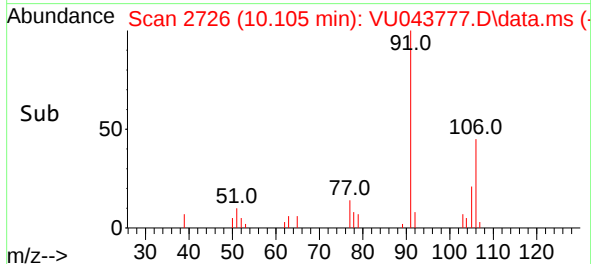
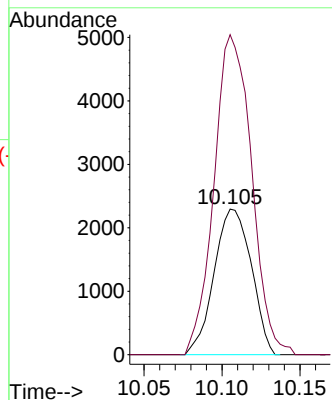
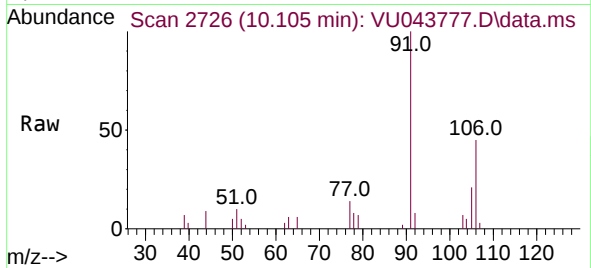




#54
o-Xylene
Concen: 0.15 ug/L
RT: 10.105 min Scan# 2726
Delta R.T. -0.003 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

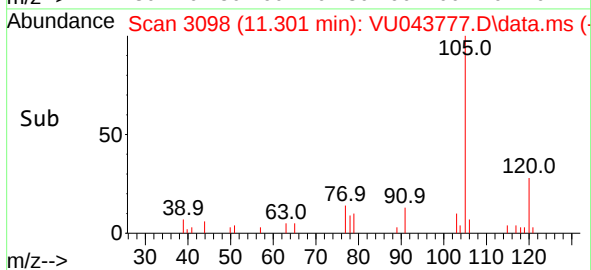
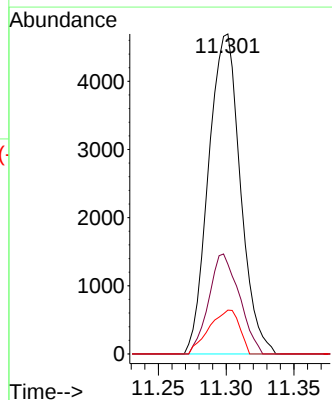
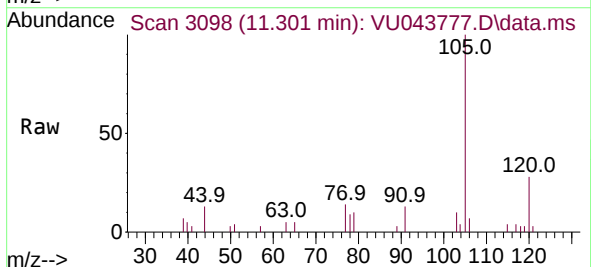
Instrument :
MSVOA_U
ClientSampled :

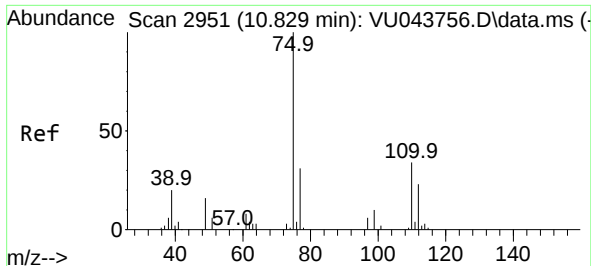
Tgt Ion:106 Resp: 3809
Ion Ratio Lower Upper
106 100
91 219.8 150.8 280.0



#60
Isopropylbenzene
Concen: 0.13 ug/L
RT: 11.301 min Scan# 3098
Delta R.T. 0.810 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Tgt Ion:105 Resp: 7661
Ion Ratio Lower Upper
105 100
120 29.9 21.3 31.9
77 13.0 12.6 19.0

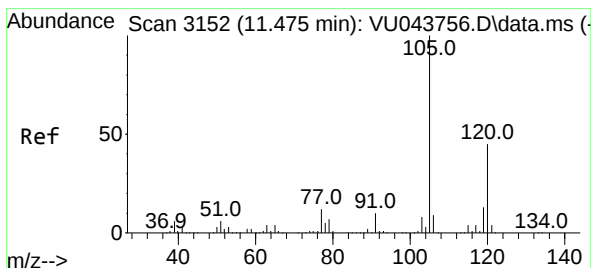
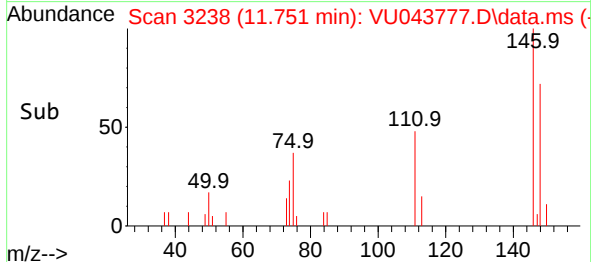
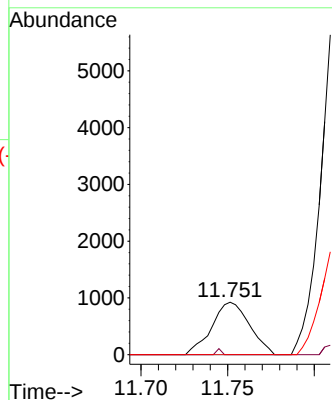
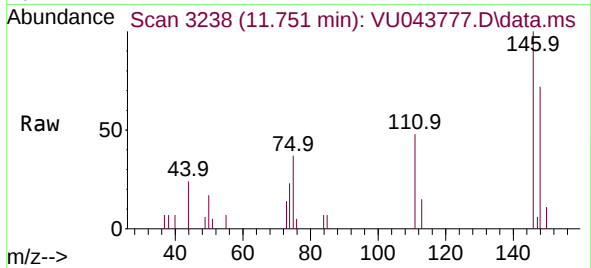




#61
1,2,3-Trichloropropane
Concen: 0.13 ug/L
RT: 11.751 min Scan# 3238
Delta R.T. 0.923 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

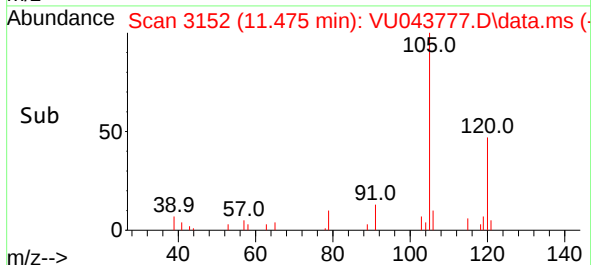
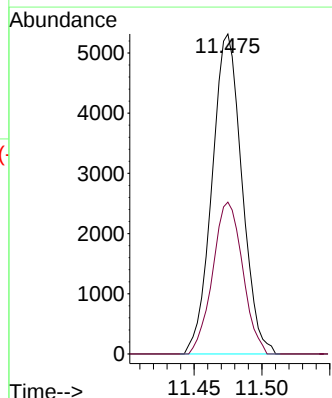
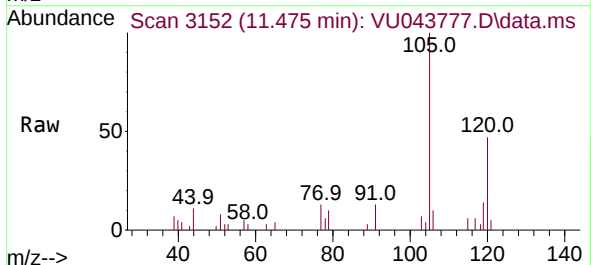
Instrument :
MSVOA_U
ClientSampleId :

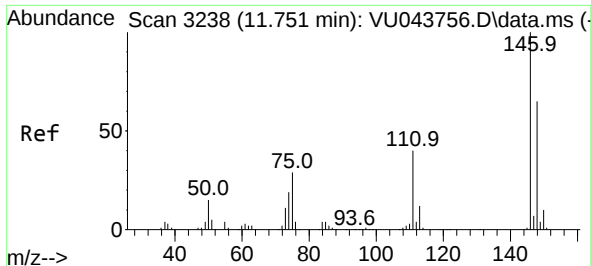
Tgt Ion: 75 Resp: 1401
Ion Ratio Lower Upper
75 100
110 1.4 27.9 41.9#
77 80.8 25.9 38.9#



#63
1,2,4-Trimethylbenzene
Concen: 0.16 ug/L
RT: 11.475 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Tgt Ion: 105 Resp: 8142
Ion Ratio Lower Upper
105 100
120 47.5 36.0 54.0

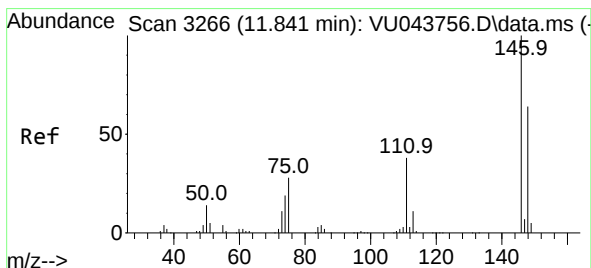
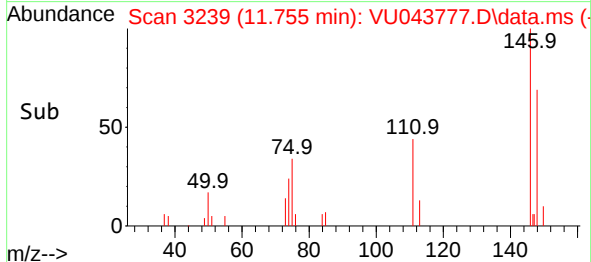
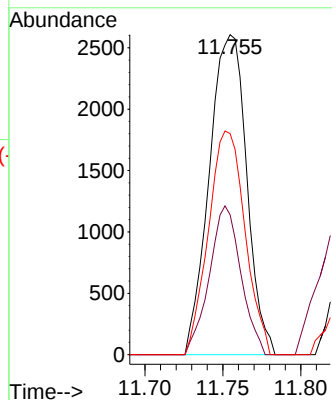
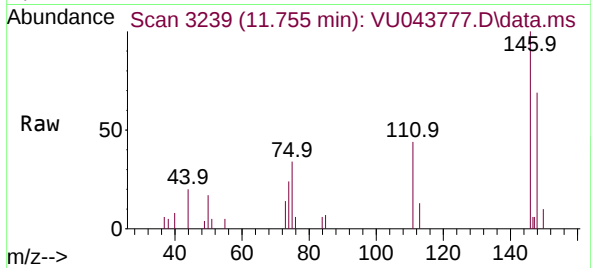




#64
1,3-Dichlorobenzene
Concen: 0.14 ug/L
RT: 11.755 min Scan# 3239
Delta R.T. 0.003 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

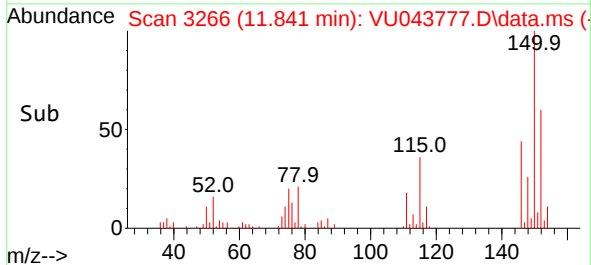
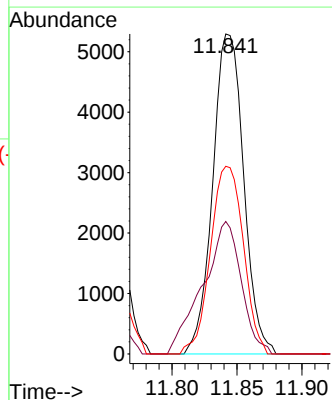
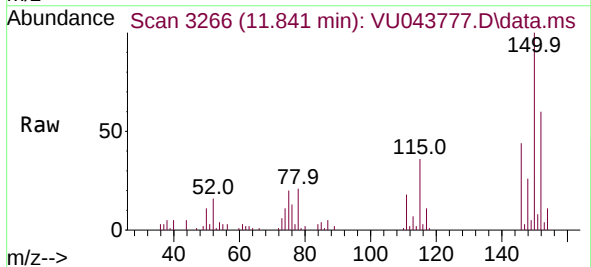
Instrument :
MSVOA_U
ClientSampleId :

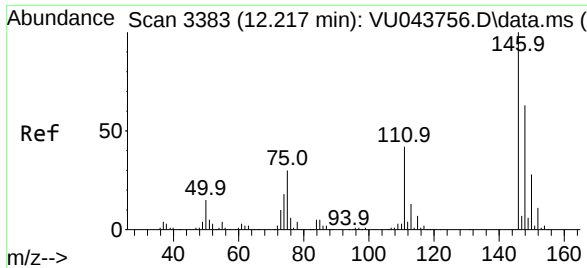
Tgt Ion:146 Resp: 4344
Ion Ratio Lower Upper
146 100
111 43.7 28.1 52.1
148 69.1 45.6 84.6



#65
1,4-Dichlorobenzene
Concen: 0.28 ug/L
RT: 11.841 min Scan# 3266
Delta R.T. 0.000 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Tgt Ion:146 Resp: 8771
Ion Ratio Lower Upper
146 100
111 41.4 27.0 50.2
148 58.7 45.0 83.6

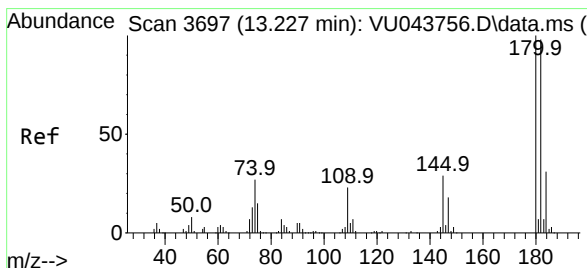
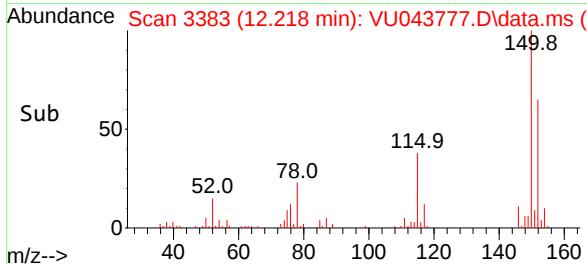
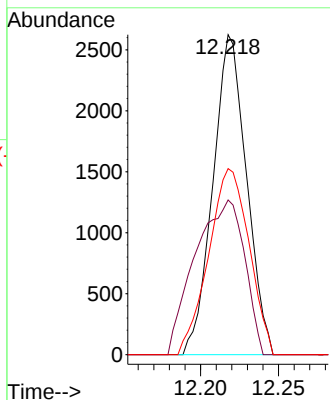
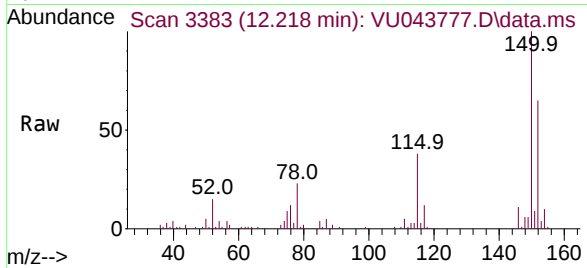




#67
1,2-Dichlorobenzene
Concen: 0.13 ug/L
RT: 12.218 min Scan# 3383
Delta R.T. 0.000 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

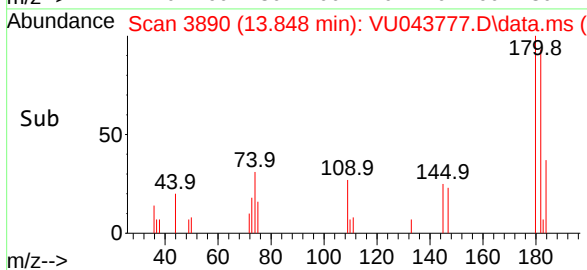
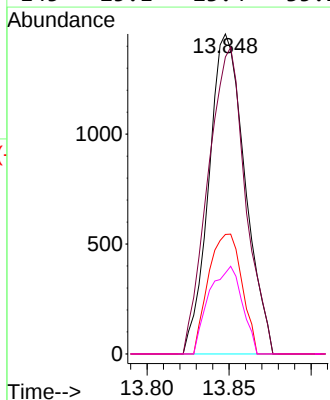
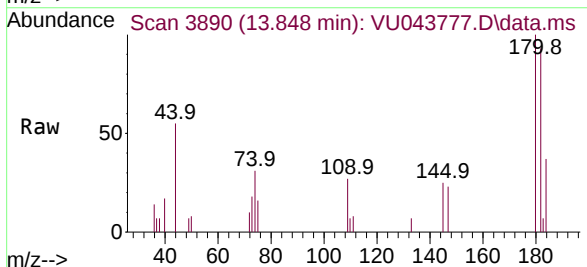
Instrument :
MSVOA_U
ClientSampled :

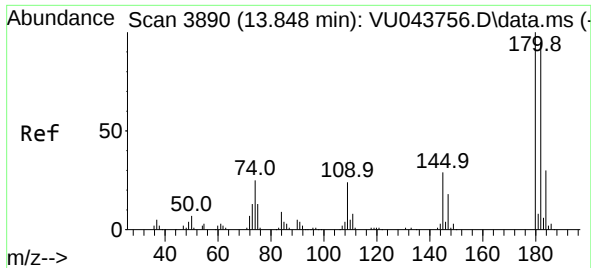
Tgt Ion:	146	Resp:	3929
Ion	Ratio	Lower	Upper
146	100		
111	48.3	33.6	50.4
148	58.2	50.2	75.2



#69
1,3,5-Trichlorobenzene
Concen: 0.09 ug/L
RT: 13.848 min Scan# 3890
Delta R.T. 0.621 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

Tgt Ion:	180	Resp:	2228
Ion	Ratio	Lower	Upper
180	100		
182	99.0	78.2	117.2
184	34.6	24.8	37.2
145	25.1	23.4	35.2

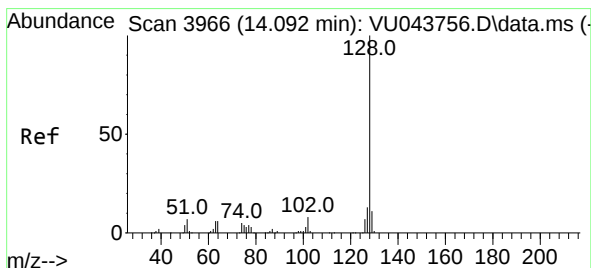
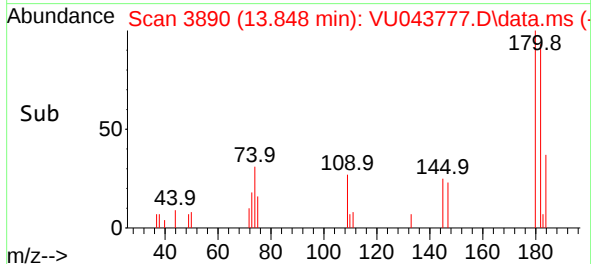
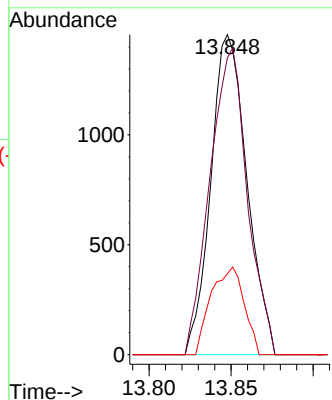
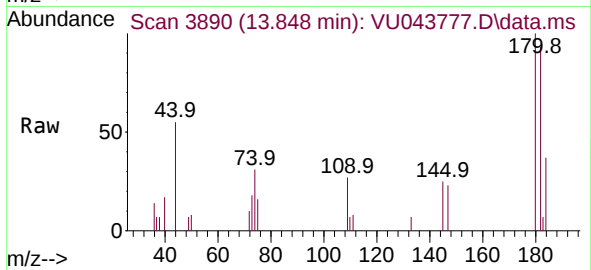




#70
1,2,4-trichlorobenzene
Concen: 0.11 ug/L
RT: 13.848 min Scan# 3890
Delta R.T. 0.000 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

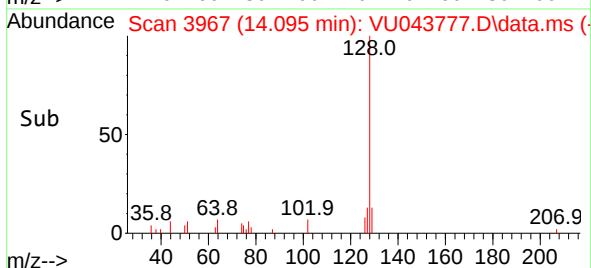
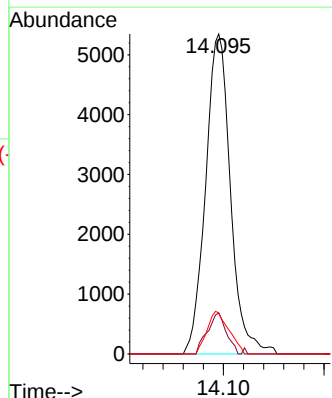
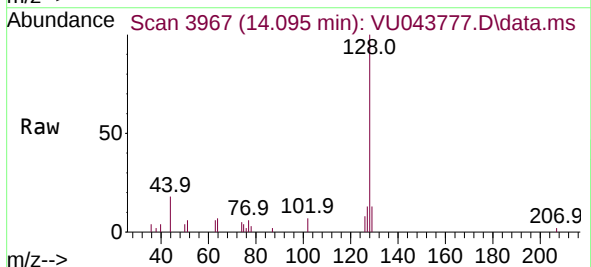
Instrument :
MSVOA_U
ClientSampled :

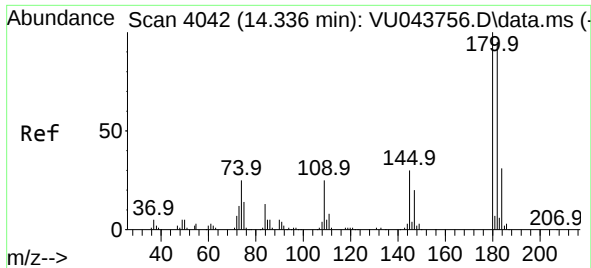
Tgt Ion:180 Resp: 2228
Ion Ratio Lower Upper
180 100
182 99.0 76.9 115.3
145 25.1 23.0 34.4



#71
Naphthalene
Concen: 0.25 ug/L
RT: 14.095 min Scan# 3967
Delta R.T. 0.003 min
Lab File: VU043777.D
Acq: 15 May 2021 00:16

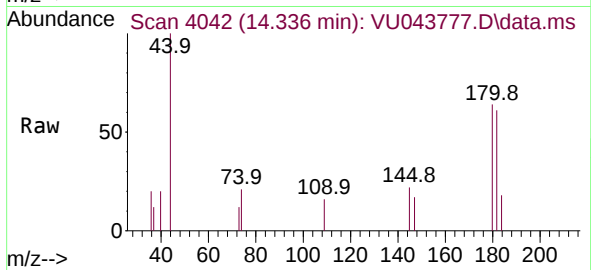
Tgt Ion:128 Resp: 9180
Ion Ratio Lower Upper
128 100
129 9.8 8.7 13.1
127 11.6 10.2 15.4





#72
 1,2,3-Trichlorobenzene
 Concen: 0.05 ug/L
 RT: 14.336 min Scan# 4042
 Delta R.T. 0.000 min
 Lab File: VU043777.D
 Acq: 15 May 2021 00:16

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	101.0	77.0	115.4
145	39.4	24.6	36.8#

