

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU062922\
 Data File : VU049521.D
 Acq On : 29 Jun 2022 18:18
 Operator : SY/MD
 Sample : N3457-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

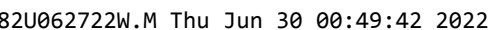
Quant Time: Jun 30 00:49:39 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U062722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 28 10:35:43 2022
 Response via : Initial Calibration

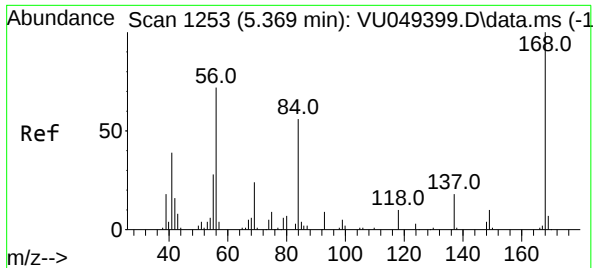
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.372	168	272833	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.250	114	477715	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	435559	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	202742	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	188247	44.801	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	89.600%		
35) Dibromofluoromethane	5.288	113	149069	44.602	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	89.200%		
50) Toluene-d8	7.899	98	577411	48.437	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	96.880%		
62) 4-Bromofluorobenzene	10.632	95	213454	46.744	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.480%		
Target Compounds						
						Qvalue
5) Bromomethane	1.851	94	432	0.315	ug/l	# 76
6) Chloroethane	1.929	64	101	1.963	ug/l	# 44
12) 1,1-Dichloroethene	2.578	96	5969	2.014	ug/l	# 83
13) Acrolein	2.488	56	260	0.390	ug/l	# 14
16) Acetone	2.642	43	1609	0.759	ug/l	88
20) Methylene Chloride	3.047	84	323	Below Cal	#	69
21) trans-1,2-Dichloroethene	3.353	96	1069	0.335	ug/l	91
24) 1,1-Dichloroethane	3.871	63	5097	0.776	ug/l	# 93
27) cis-1,2-Dichloroethene	4.668	96	113827	30.840	ug/l	99
31) Cyclohexane	5.369	56	6161	0.977	ug/l	# 4
32) 1,1,1-Trichloroethane	5.321	97	2647	0.470	ug/l	# 49
36) 1,1-Dichloropropene	5.369	75	22154	4.571	ug/l	# 48
38) Carbon Tetrachloride	5.372	117	28342	5.577	ug/l	# 15
39) Methylcyclohexane	6.542	83	10727	1.847	ug/l	# 1
44) Trichloroethene	6.542	130	828546	238.213	ug/l	88
45) 1,2-Dichloropropane	6.793	63	3119	0.769	ug/l	100
48) Methyl methacrylate	6.796	41	1930	0.424	ug/l	# 32
49) 1,4-Dioxane	6.993	88	271	2.326	ug/l	# 1
52) Toluene	7.970	92	7647	0.879	ug/l	97
60) Dibromochloromethane	8.552	129	62616	16.747	ug/l	# 11
64) Tetrachloroethene	8.552	164	63069	22.576	ug/l	96
68) m/p-Xylenes	9.697	106	2916	0.482	ug/l	76
69) o-Xylene	10.102	106	1274	0.212	ug/l	97
76) 1,2,3-Trichloropropane	10.632	75	108169	15.739	ug/l	# 45
81) trans-1,4-Dichloro-2-b...	10.632	75	108169	58.121	ug/l	# 15
93) 1,2,4-Trichlorobenzene	13.844	180	125	1.780	ug/l	# 39
95) Naphthalene	14.089	128	10040	2.347	ug/l	99
96) 1,2,3-Trichlorobenzene	14.336	180	85	1.195	ug/l	# 86

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

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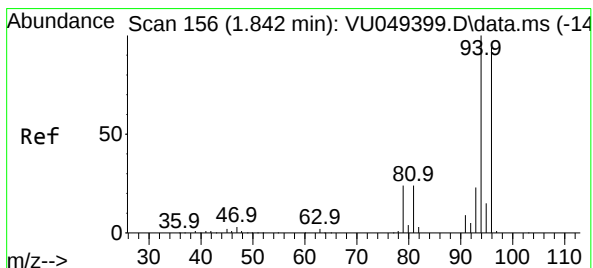
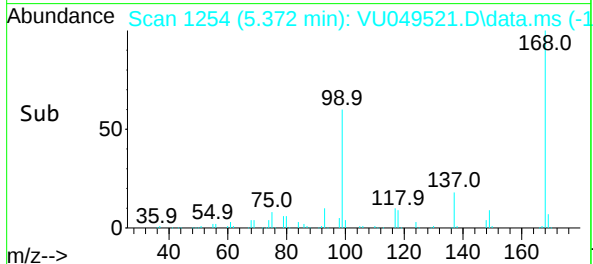
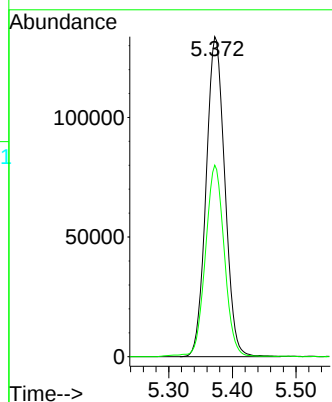
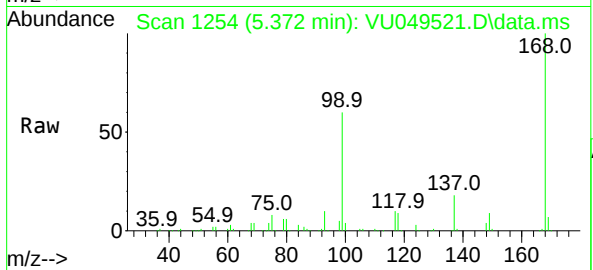




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.372 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

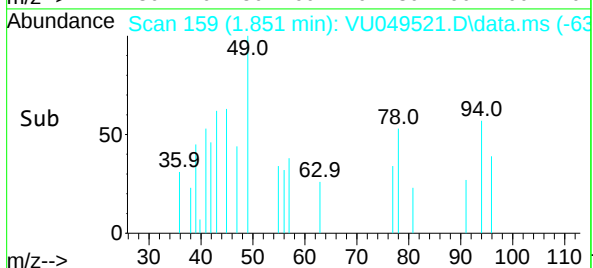
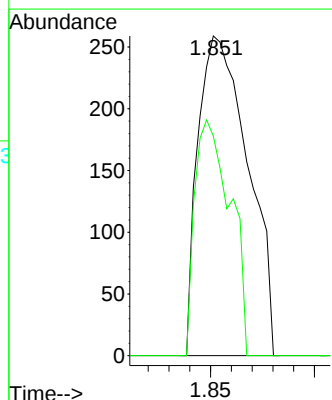
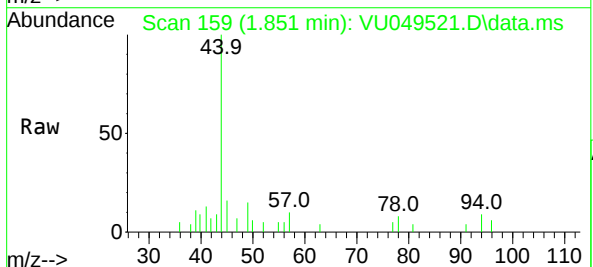
Instrument :
MSVOA_U
ClientSampleId :

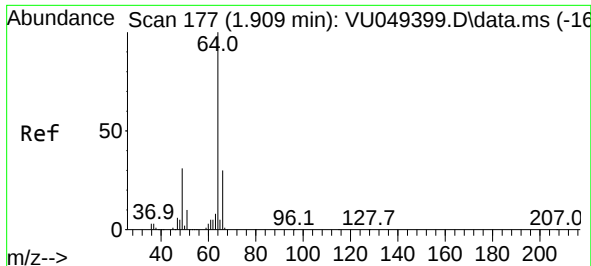
Tgt Ion:168 Resp: 272833
Ion Ratio Lower Upper
168 100
99 59.7 39.3 58.9#



#5
Bromomethane
Concen: 0.315 ug/l
RT: 1.851 min Scan# 159
Delta R.T. 0.010 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Tgt Ion: 94 Resp: 432
Ion Ratio Lower Upper
94 100
96 68.7 73.7 110.5#

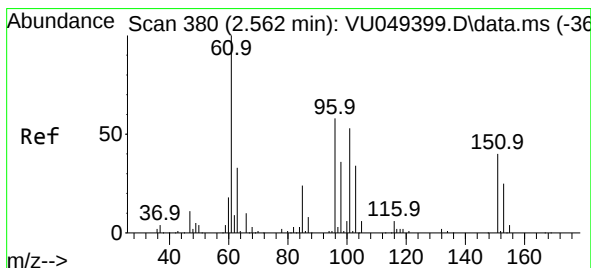
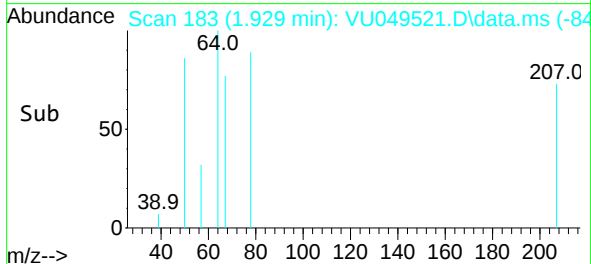
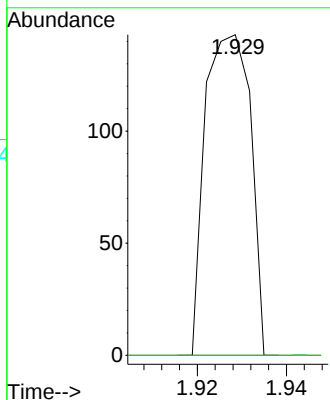
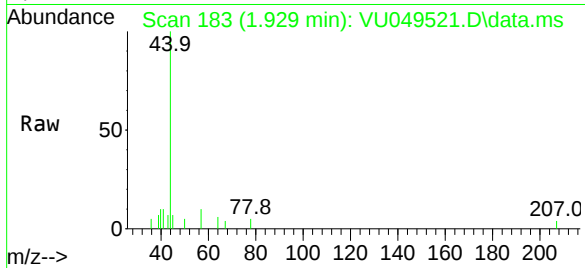




#6
Chloroethane
Concen: 1.963 ug/l
RT: 1.929 min Scan# 11
Delta R.T. 0.019 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

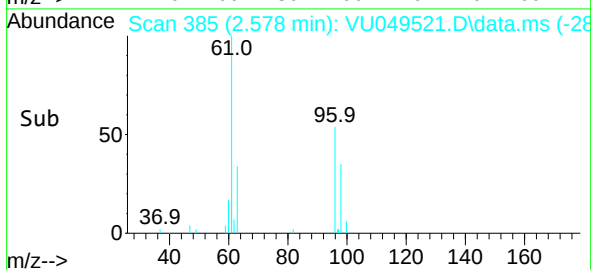
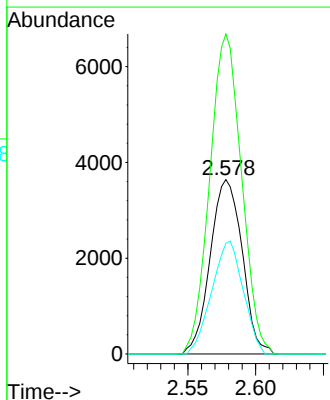
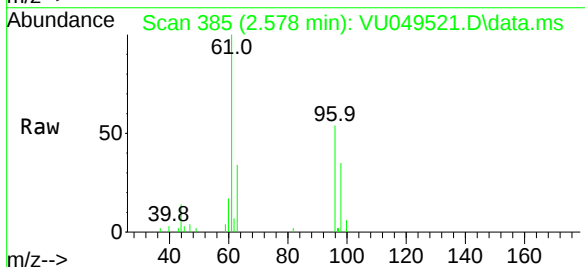
Instrument :
MSVOA_U
ClientSampleId :

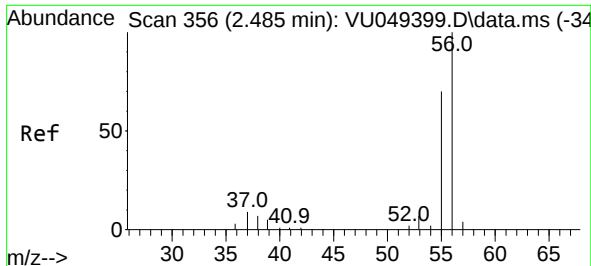
Tgt Ion: 64 Resp: 101
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#12
1,1-Dichloroethene
Concen: 2.014 ug/l
RT: 2.578 min Scan# 385
Delta R.T. 0.016 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

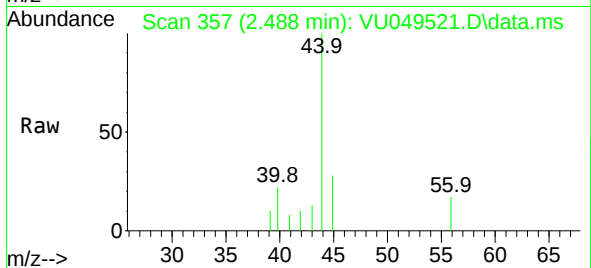
Tgt Ion: 96 Resp: 5969
Ion Ratio Lower Upper
96 100
61 183.5 122.2 183.2#
98 63.4 50.7 76.1



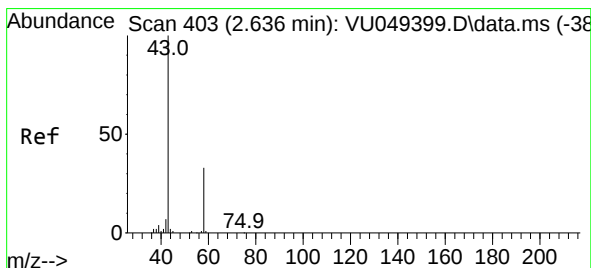
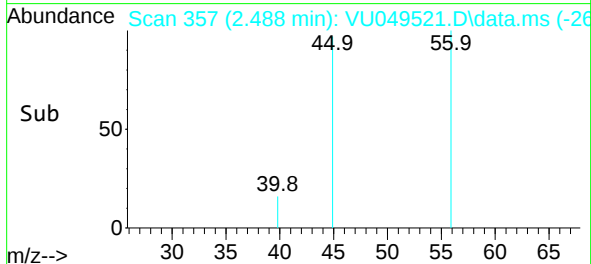
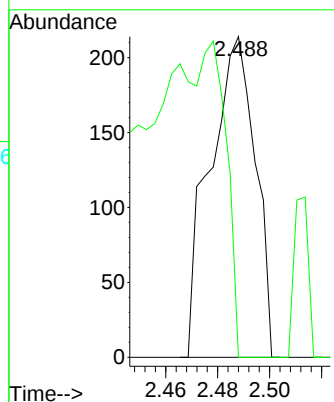


#13
Acrolein
Concen: 0.390 ug/l
RT: 2.488 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Instrument :
MSVOA_U
ClientSampleId :

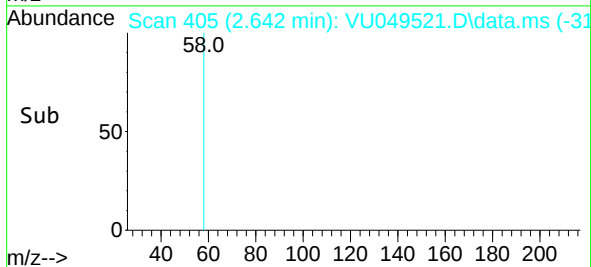
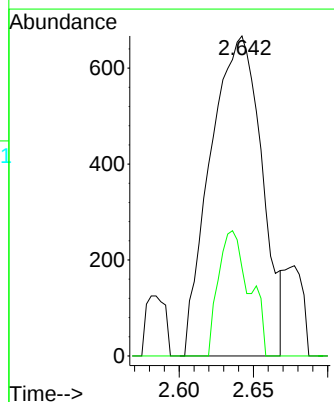
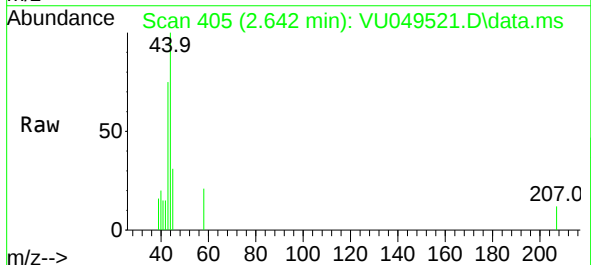


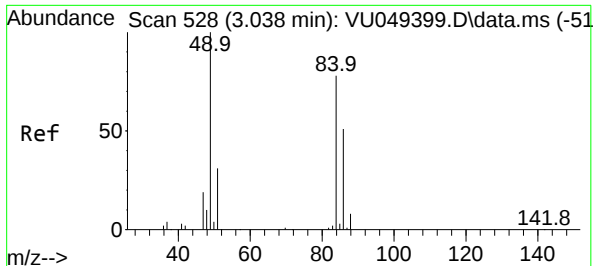
Tgt Ion: 56 Resp: 260
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#



#16
Acetone
Concen: 0.759 ug/l
RT: 2.642 min Scan# 405
Delta R.T. 0.007 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Tgt Ion: 43 Resp: 1609
Ion Ratio Lower Upper
43 100
58 27.6 27.5 41.3





#20

Methylene Chloride

Concen: Below Cal

RT: 3.047 min Scan# 51

Delta R.T. 0.010 min

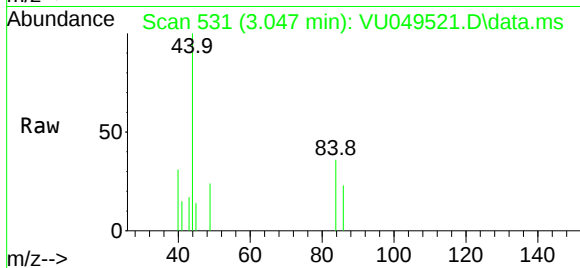
Lab File: VU049521.D

Acq: 29 Jun 2022 18:18

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion: 84 Resp: 323

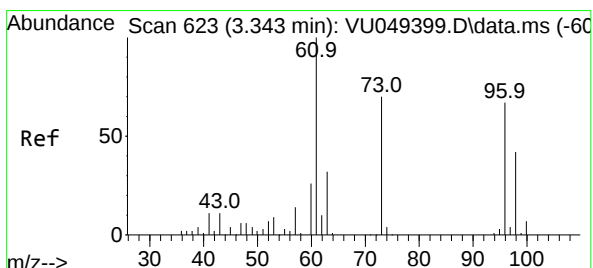
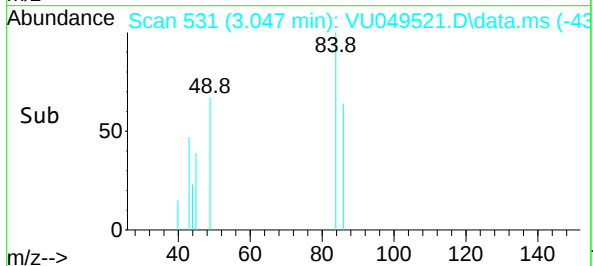
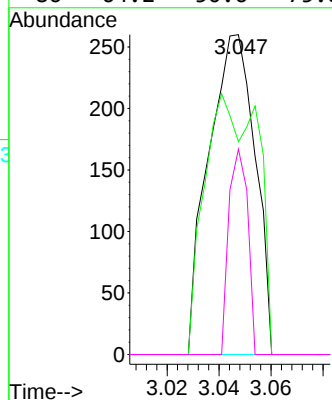
Ion Ratio Lower Upper

84 100

49 66.5 86.6 129.8#

51 0.0 26.6 40.0#

86 64.2 50.6 75.8



#21

trans-1,2-Dichloroethene

Concen: 0.335 ug/l

RT: 3.353 min Scan# 626

Delta R.T. 0.010 min

Lab File: VU049521.D

Acq: 29 Jun 2022 18:18

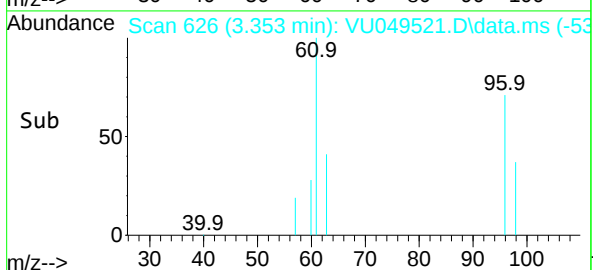
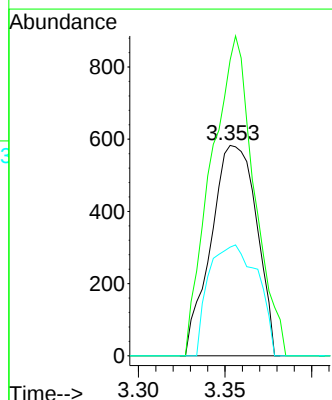
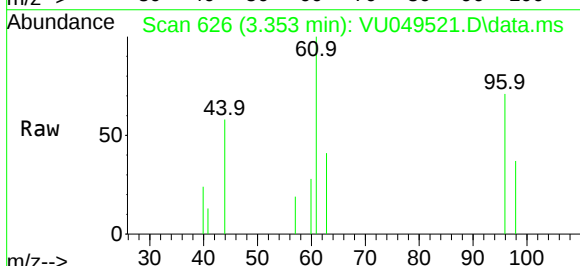
Tgt Ion: 96 Resp: 1069

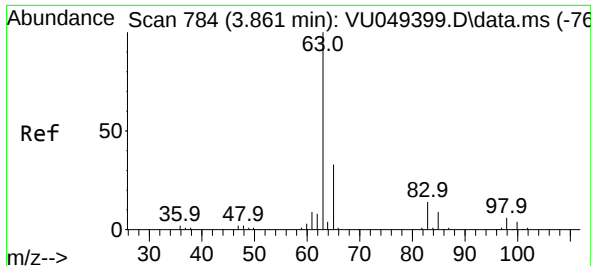
Ion Ratio Lower Upper

96 100

61 140.5 106.1 159.1

98 51.6 50.8 76.2

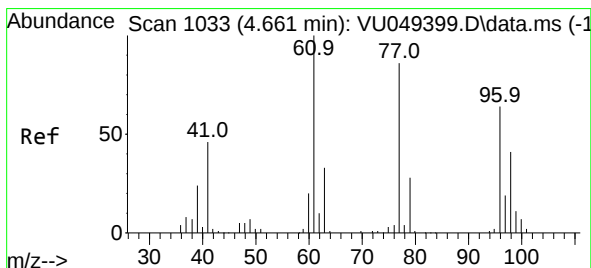
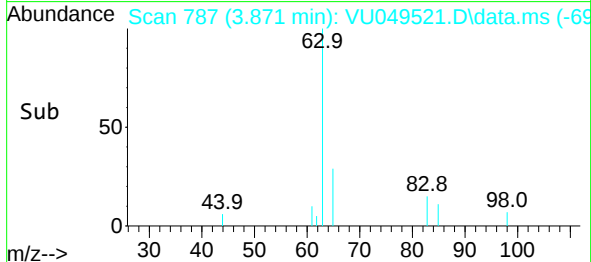
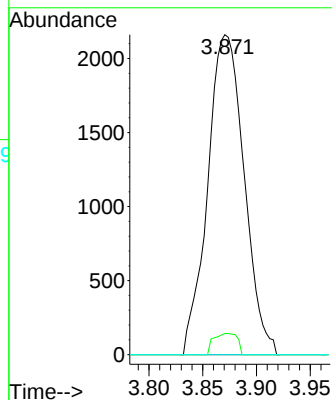
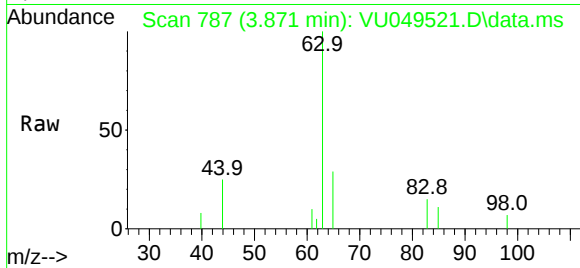




#24
1,1-Dichloroethane
Concen: 0.776 ug/l
RT: 3.871 min Scan# 71
Delta R.T. 0.010 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

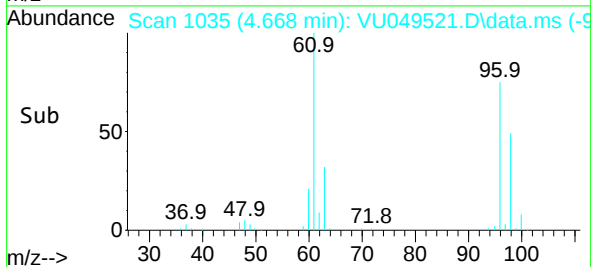
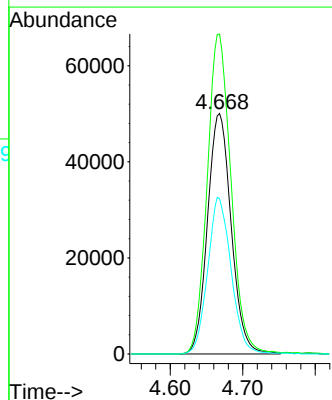
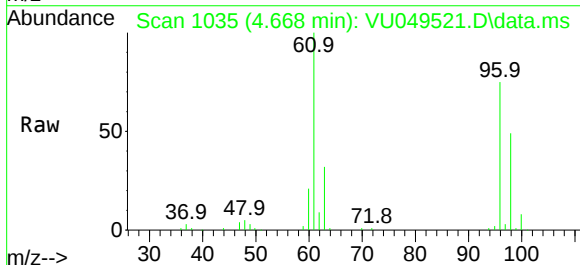
Instrument :
MSVOA_U
ClientSampleId :

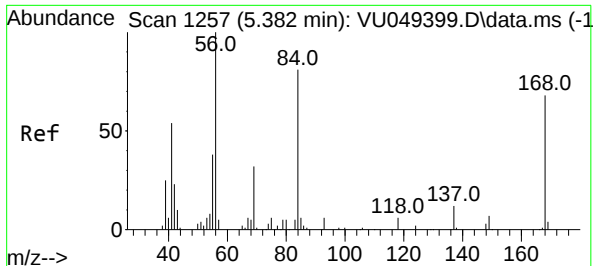
Tgt Ion: 63 Resp: 5097
Ion Ratio Lower Upper
63 100
98 6.6 3.6 10.9
100 0.0 2.4 7.2#



#27
cis-1,2-Dichloroethene
Concen: 30.840 ug/l
RT: 4.668 min Scan# 1035
Delta R.T. 0.007 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Tgt Ion: 96 Resp: 113827
Ion Ratio Lower Upper
96 100
61 133.4 0.0 271.6
98 64.3 0.0 128.2





#31

Cyclohexane

Concen: 0.977 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.013 min

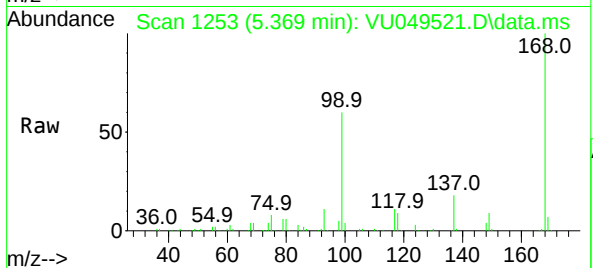
Lab File: VU049521.D

Acq: 29 Jun 2022 18:18

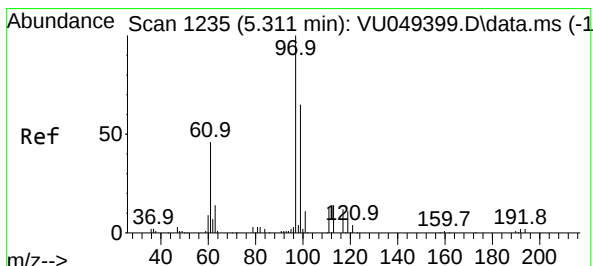
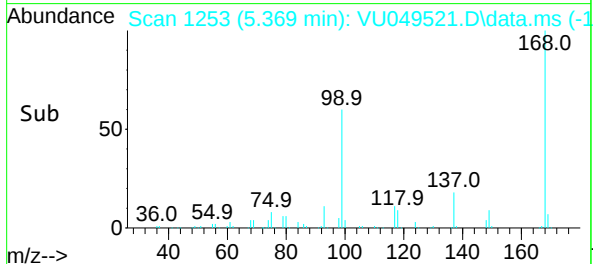
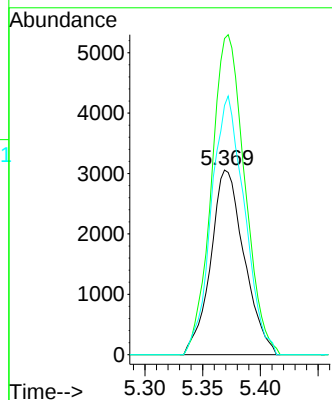
Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:	56	Resp:	6161
Ion Ratio	Lower	Upper	
56	100		
69	171.2	27.8	41.8#
84	135.0	74.2	111.4#



#32

1,1,1-Trichloroethane

Concen: 0.470 ug/l

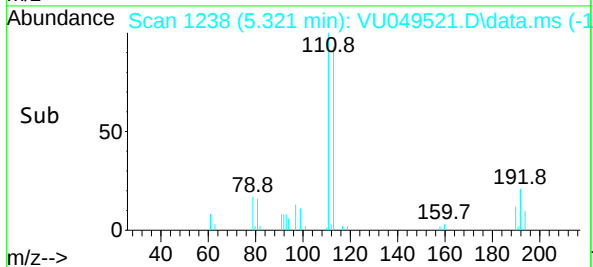
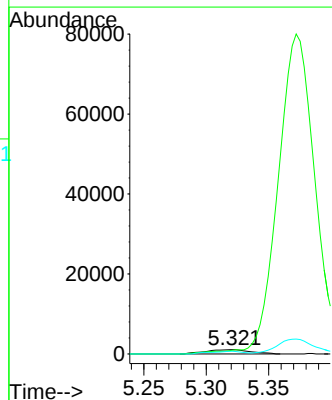
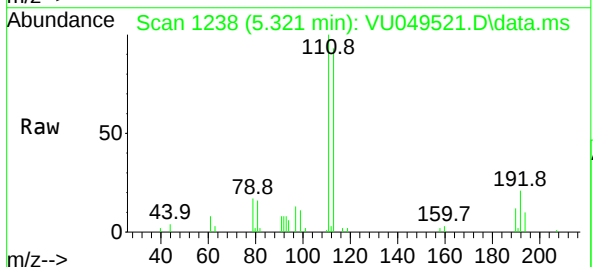
RT: 5.321 min Scan# 1238

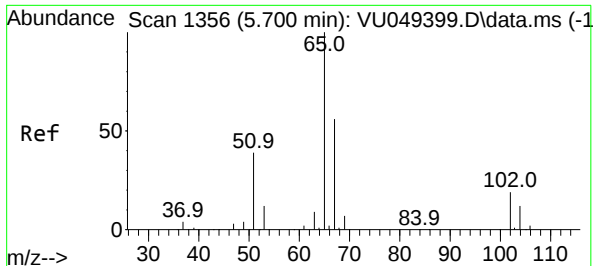
Delta R.T. 0.010 min

Lab File: VU049521.D

Acq: 29 Jun 2022 18:18

Tgt Ion:	97	Resp:	2647
Ion Ratio	Lower	Upper	
97	100		
99	0.0	51.8	77.6#
61	47.1	35.1	52.7





#33

1,2-Dichloroethane-d4

Concen: 44.801 ug/l

RT: 5.703 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU049521.D

Acq: 29 Jun 2022 18:18

Instrument :

MSVOA_U

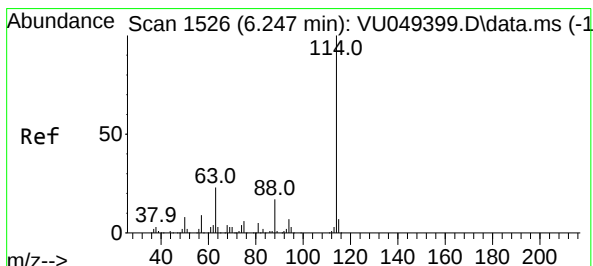
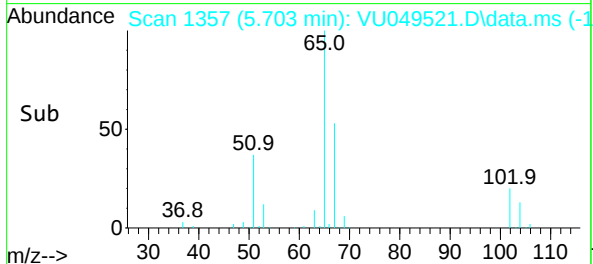
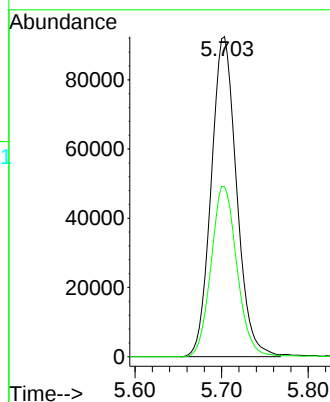
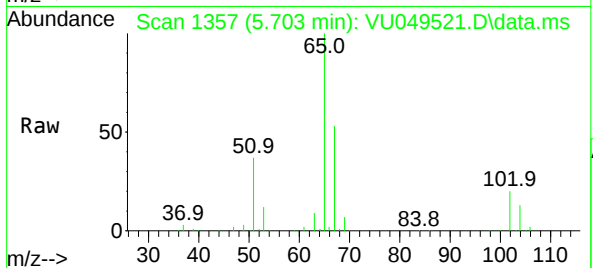
ClientSampleId :

Tgt Ion: 65 Resp: 188247

Ion Ratio Lower Upper

65 100

67 54.4 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 1527

Delta R.T. 0.003 min

Lab File: VU049521.D

Acq: 29 Jun 2022 18:18

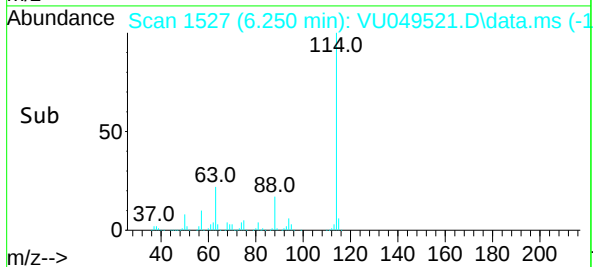
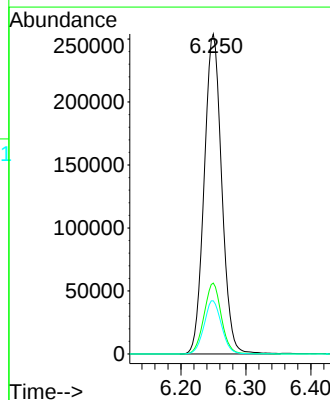
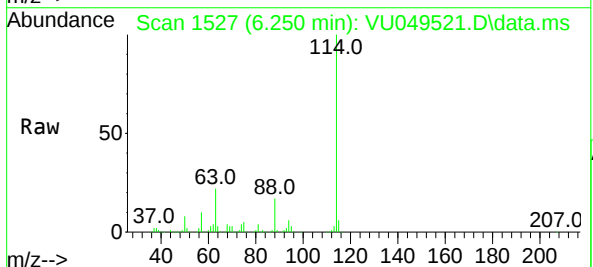
Tgt Ion: 114 Resp: 477715

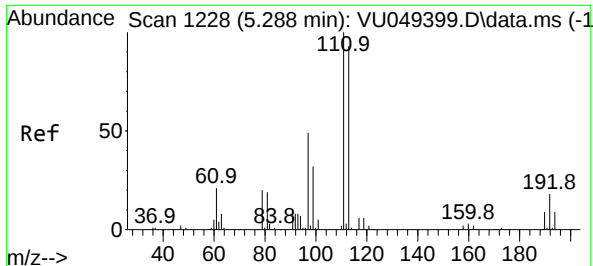
Ion Ratio Lower Upper

114 100

63 22.2 0.0 37.8

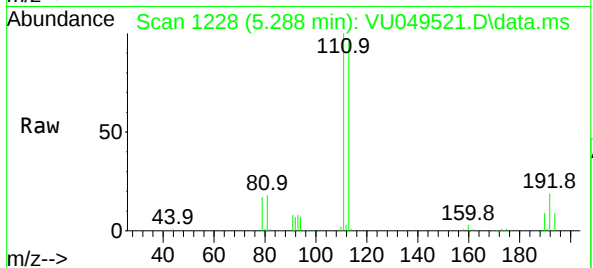
88 16.6 0.0 29.2



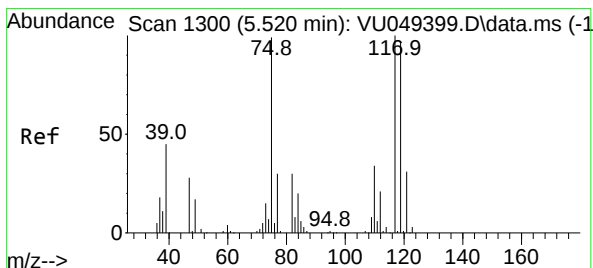
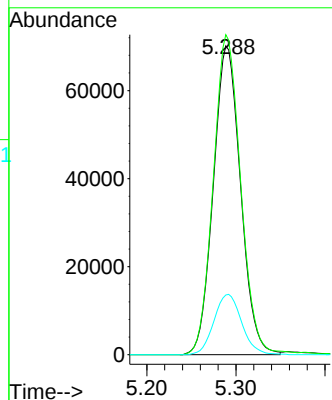
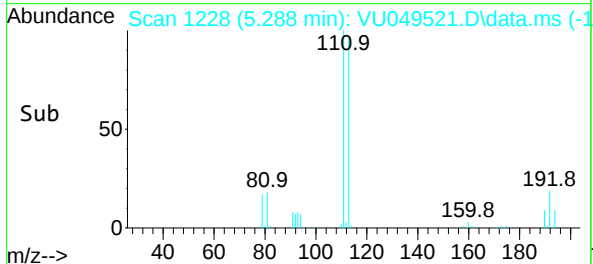


#35
Dibromofluoromethane
Concen: 44.602 ug/l
RT: 5.288 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Instrument :
MSVOA_U
ClientSampleId :

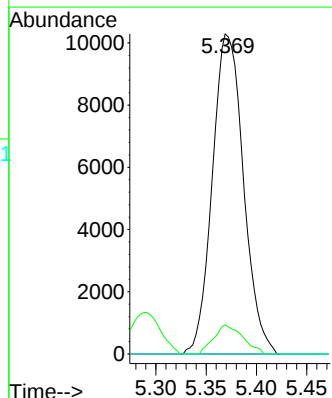
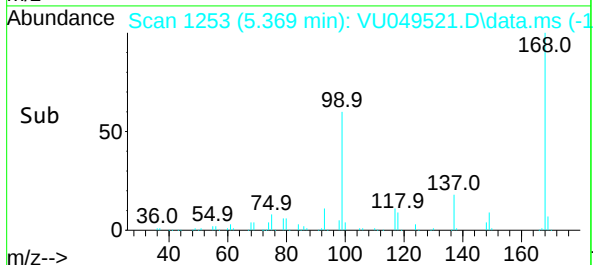
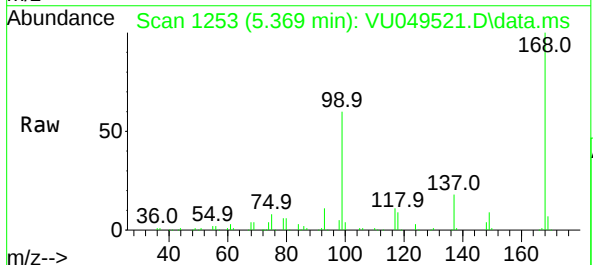


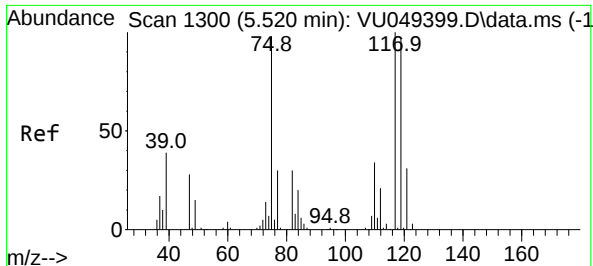
Tgt Ion:113 Resp: 149069
Ion Ratio Lower Upper
113 100
111 104.2 82.1 123.1
192 19.9 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.571 ug/l
RT: 5.369 min Scan# 1253
Delta R.T. -0.151 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

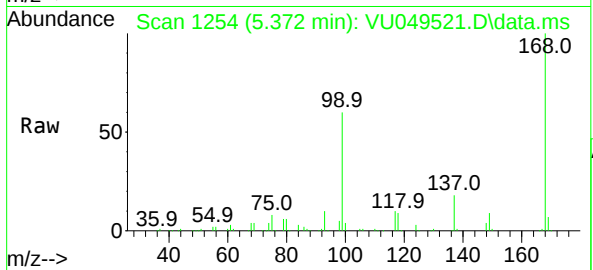
Tgt Ion: 75 Resp: 22154
Ion Ratio Lower Upper
75 100
110 8.5 18.4 55.2#
77 0.0 25.1 37.7#



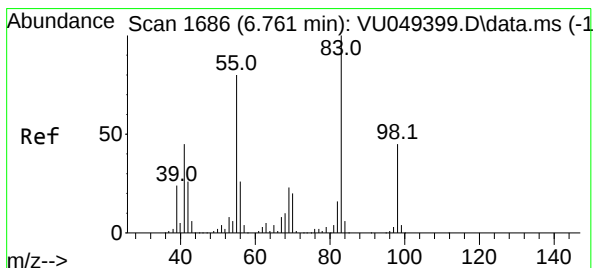
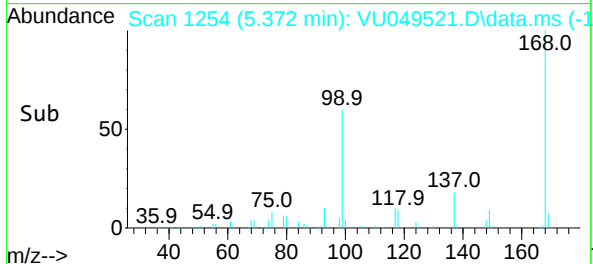
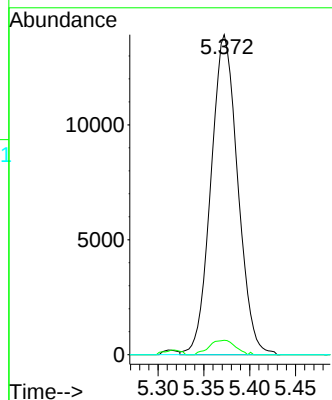


#38
Carbon Tetrachloride
Concen: 5.577 ug/l
RT: 5.372 min Scan# 11
Delta R.T. -0.148 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Instrument :
MSVOA_U
ClientSampleId :

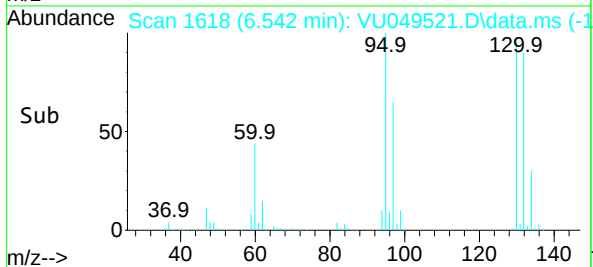
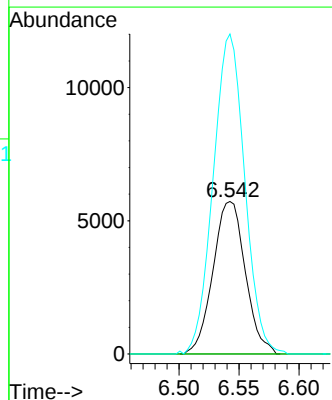
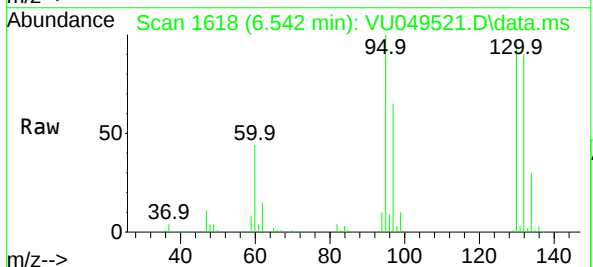


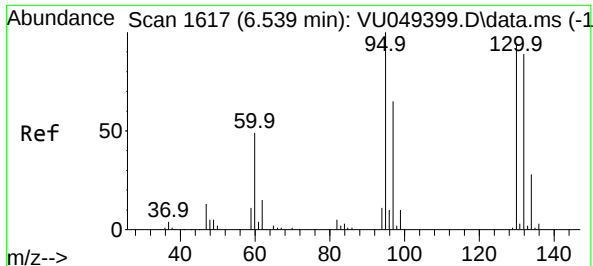
Tgt Ion:117 Resp: 28342
Ion Ratio Lower Upper
117 100
119 4.5 76.8 115.2#
121 0.0 24.7 37.1#



#39
Methylcyclohexane
Concen: 1.847 ug/l
RT: 6.542 min Scan# 1618
Delta R.T. -0.219 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Tgt Ion: 83 Resp: 10727
Ion Ratio Lower Upper
83 100
55 0.0 55.3 82.9#
98 207.9 37.3 55.9#

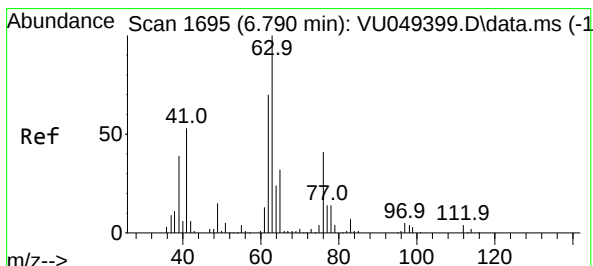
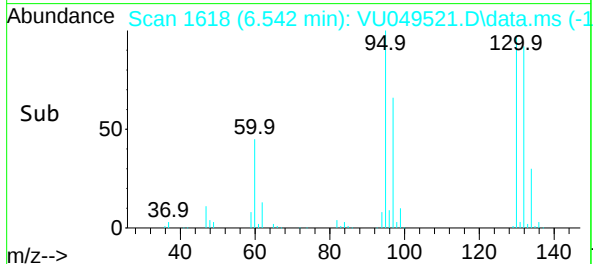
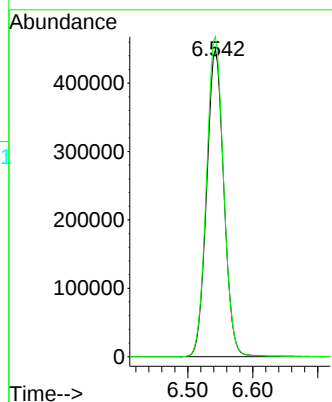
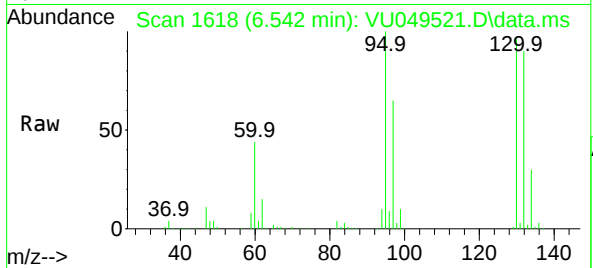




#44
Trichloroethene
Concen: 238.213 ug/l
RT: 6.542 min Scan# 1618
Delta R.T. 0.003 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

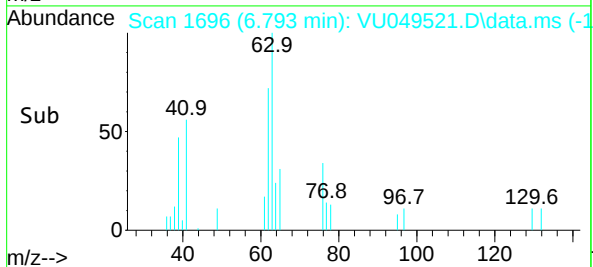
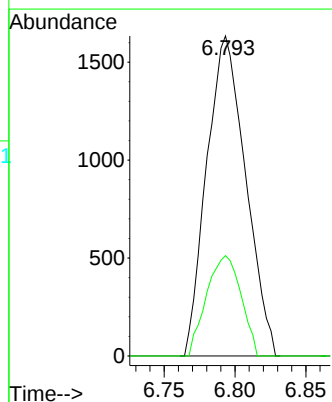
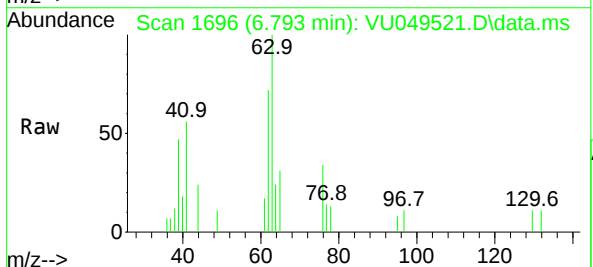
Instrument :
MSVOA_U
ClientSampleId :

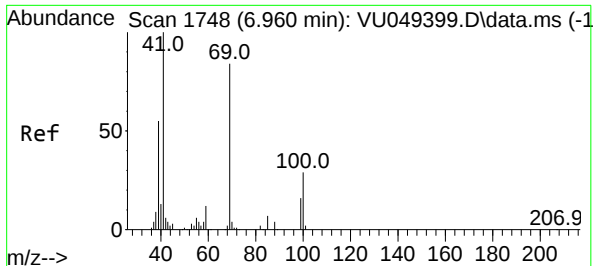
Tgt Ion:130 Resp: 828546
Ion Ratio Lower Upper
130 100
95 104.2 0.0 184.6



#45
1,2-Dichloropropane
Concen: 0.769 ug/l
RT: 6.793 min Scan# 1696
Delta R.T. 0.003 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

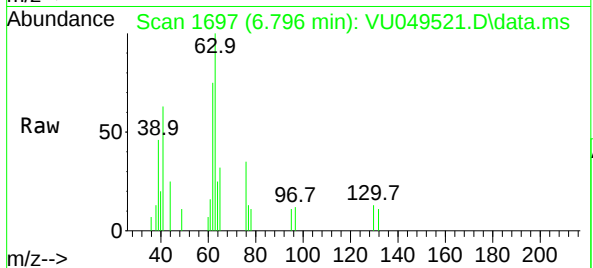
Tgt Ion: 63 Resp: 3119
Ion Ratio Lower Upper
63 100
65 31.3 25.0 37.4



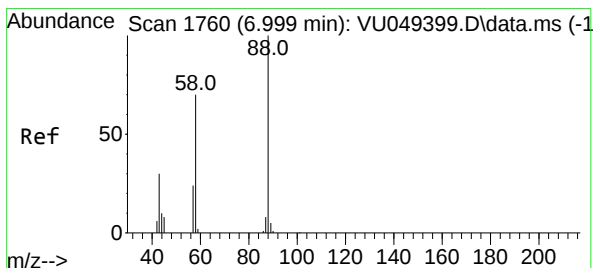
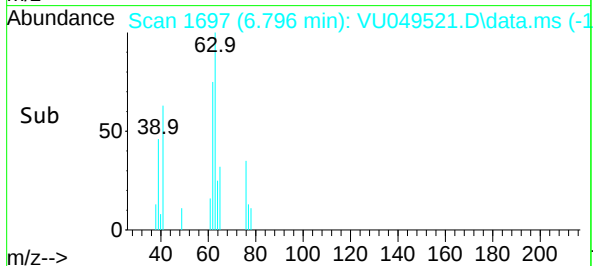
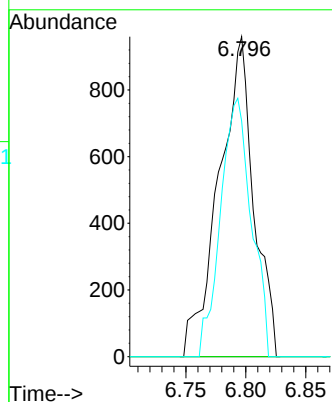


#48
Methyl methacrylate
Concen: 0.424 ug/l
RT: 6.796 min Scan# 1
Delta R.T. -0.164 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Instrument :
MSVOA_U
ClientSampleId :

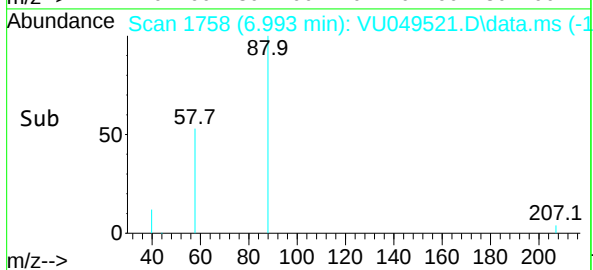
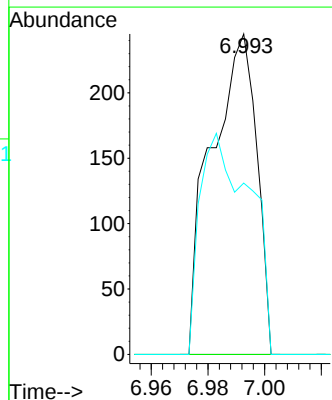
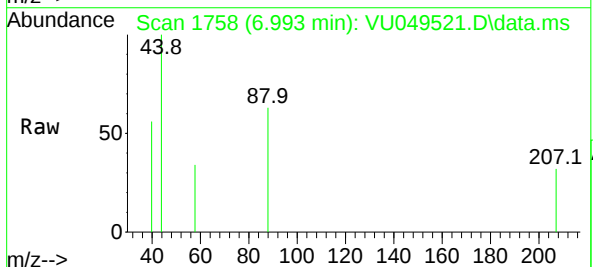


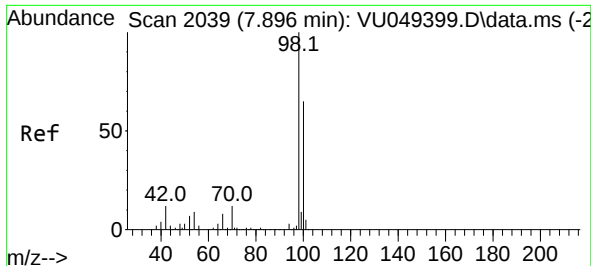
Tgt Ion: 41 Resp: 1930
Ion Ratio Lower Upper
41 100
69 0.0 79.8 119.6#
39 71.7 47.9 71.9



#49
1,4-Dioxane
Concen: 2.326 ug/l
RT: 6.993 min Scan# 1758
Delta R.T. -0.006 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Tgt Ion: 88 Resp: 271
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 76.8 15.4 23.0#

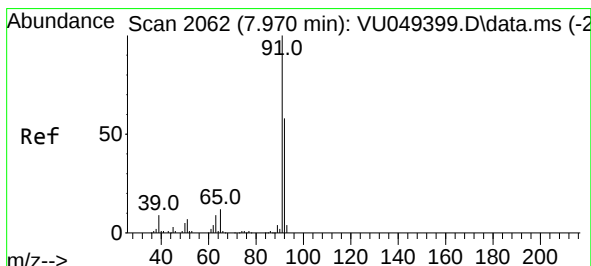
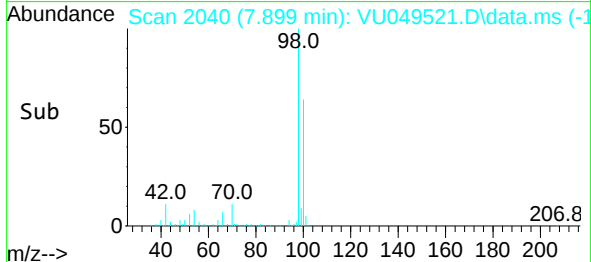
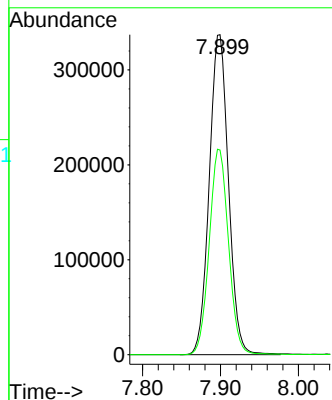
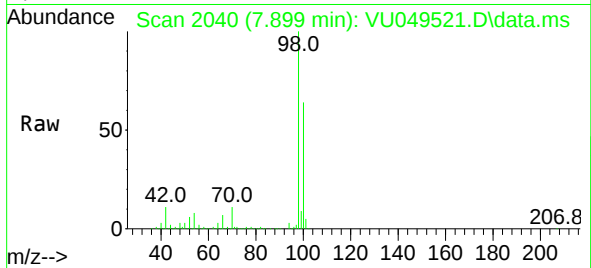




#50
Toluene-d8
Concen: 48.437 ug/l
RT: 7.899 min Scan# 2039
Delta R.T. 0.003 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

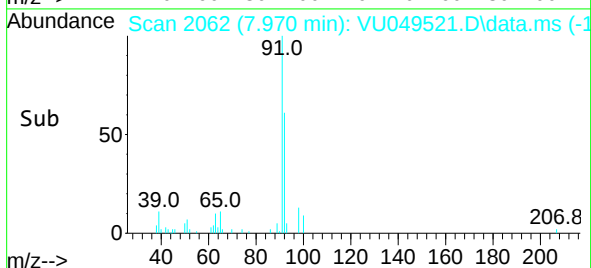
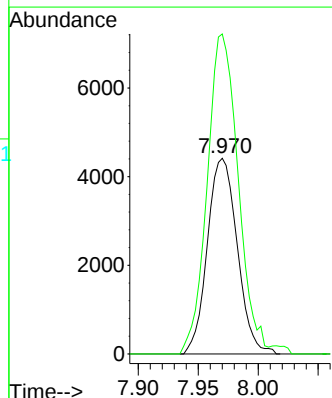
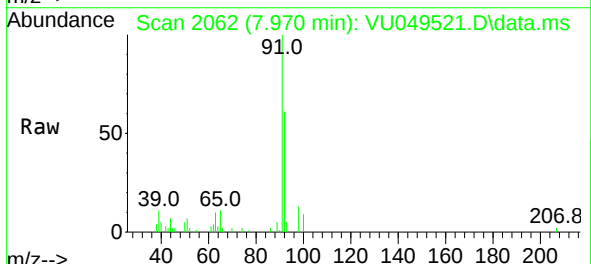
Instrument :
MSVOA_U
ClientSampleId :

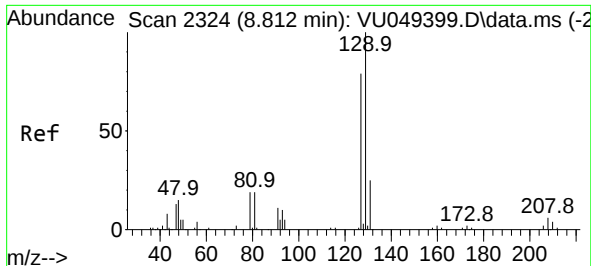
Tgt Ion: 98 Resp: 577411
Ion Ratio Lower Upper
98 100
100 64.6 51.7 77.5



#52
Toluene
Concen: 0.879 ug/l
RT: 7.970 min Scan# 2062
Delta R.T. 0.000 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Tgt Ion: 92 Resp: 7647
Ion Ratio Lower Upper
92 100
91 169.2 138.2 207.4

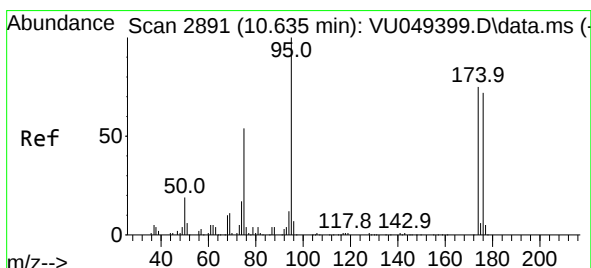
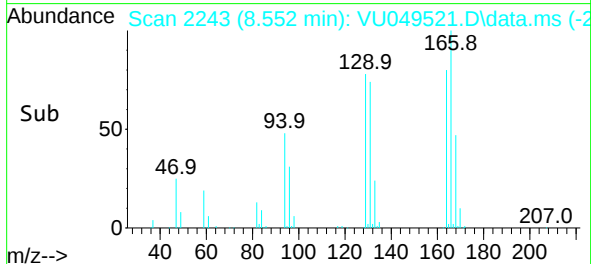
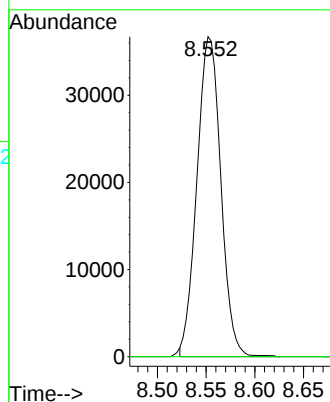
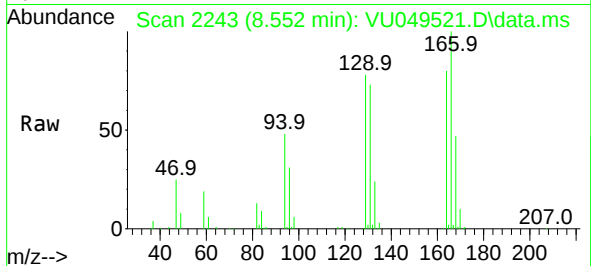




#60
Dibromochloromethane
Concen: 16.747 ug/l
RT: 8.552 min Scan# 21
Delta R.T. -0.260 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

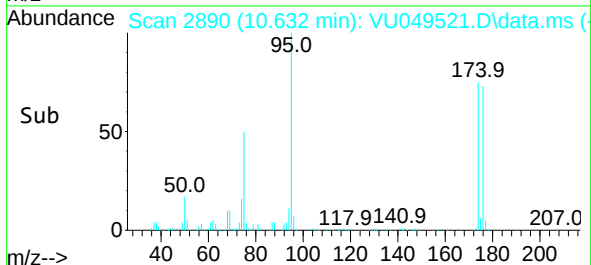
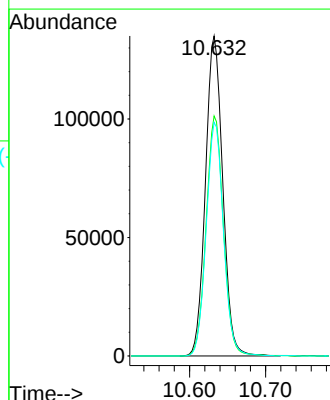
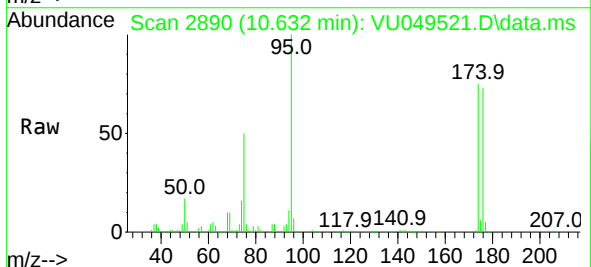
Instrument :
MSVOA_U
ClientSampleId :

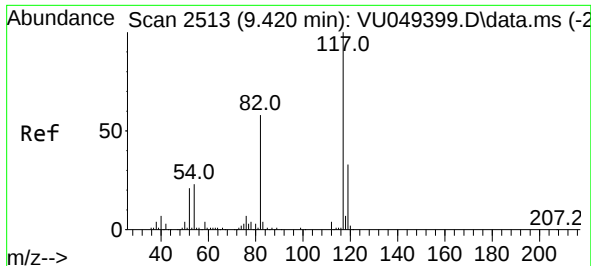
Tgt Ion:129 Resp: 62616
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 46.744 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. -0.003 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Tgt Ion: 95 Resp: 213454
Ion Ratio Lower Upper
95 100
174 75.2 0.0 182.0
176 72.7 0.0 177.8

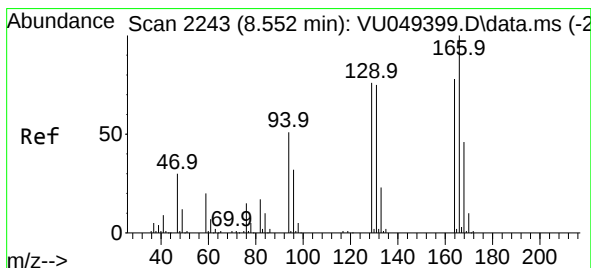
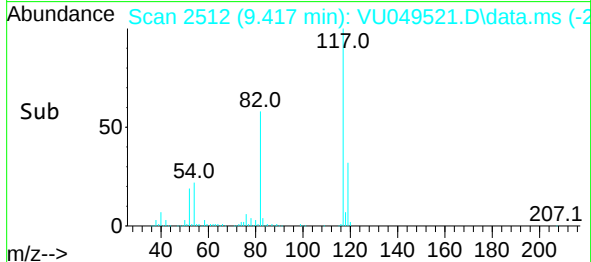
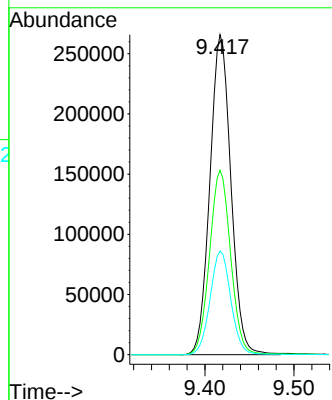
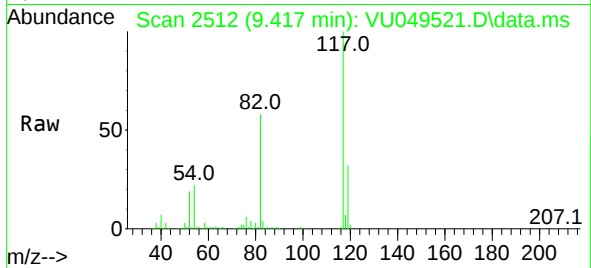




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.417 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

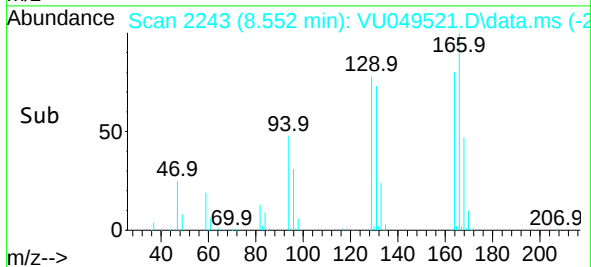
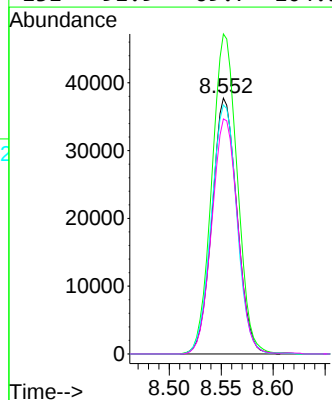
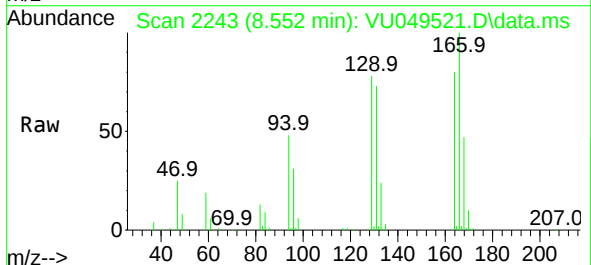
Instrument :
MSVOA_U
ClientSampleId :

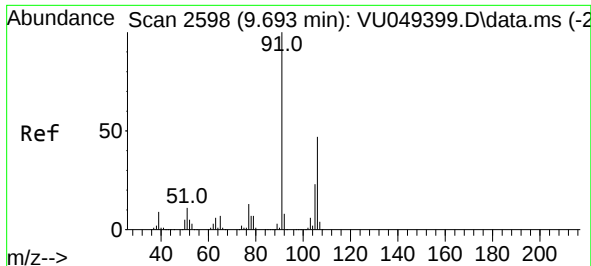
Tgt Ion:117 Resp: 435559
Ion Ratio Lower Upper
117 100
82 57.7 41.7 62.5
119 32.4 25.7 38.5



#64
Tetrachloroethene
Concen: 22.576 ug/l
RT: 8.552 min Scan# 2243
Delta R.T. 0.000 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Tgt Ion:164 Resp: 63069
Ion Ratio Lower Upper
164 100
166 125.1 100.0 150.0
129 97.3 72.0 108.0
131 91.9 69.7 104.5

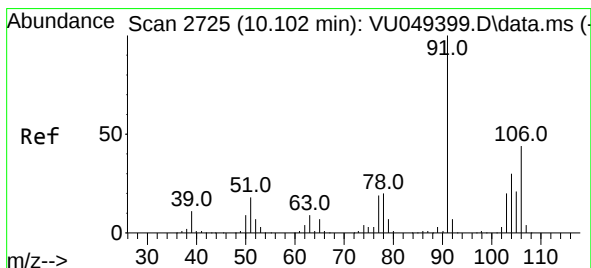
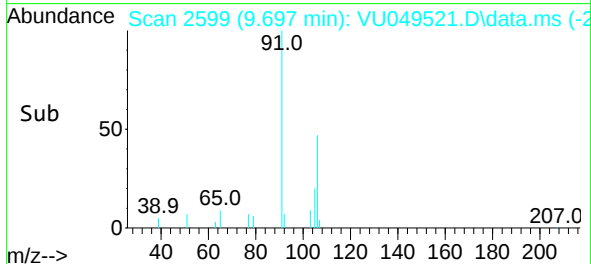
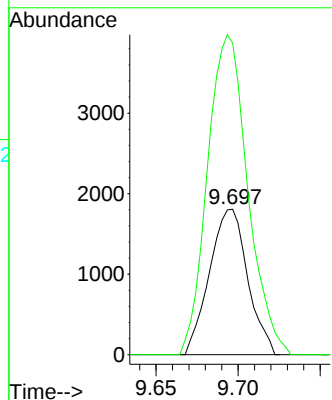
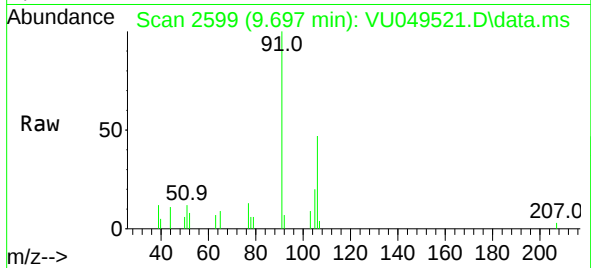




#68
m/p-Xylenes
Concen: 0.482 ug/l
RT: 9.697 min Scan# 2599
Delta R.T. 0.003 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

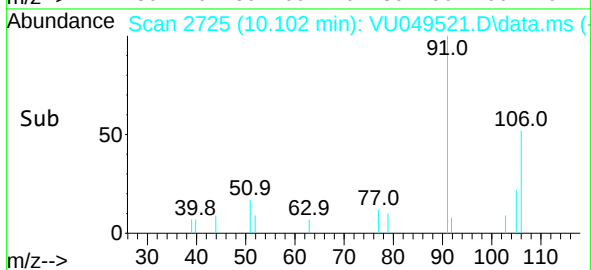
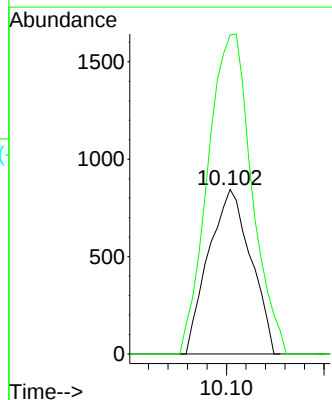
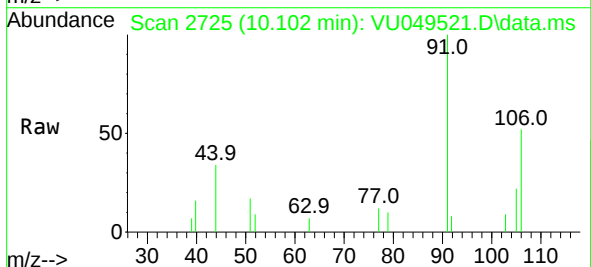
Instrument :
MSVOA_U
ClientSampleId :

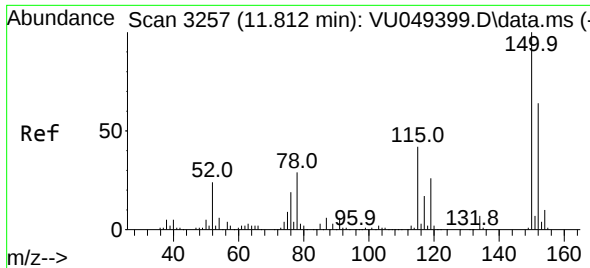
Tgt Ion:106 Resp: 2916
Ion Ratio Lower Upper
106 100
91 232.3 157.2 235.8



#69
o-Xylene
Concen: 0.212 ug/l
RT: 10.102 min Scan# 2725
Delta R.T. 0.000 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Tgt Ion:106 Resp: 1274
Ion Ratio Lower Upper
106 100
91 201.8 103.5 310.5

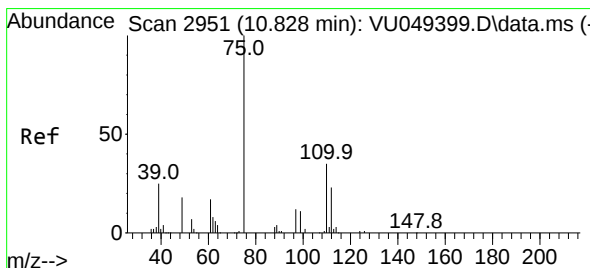
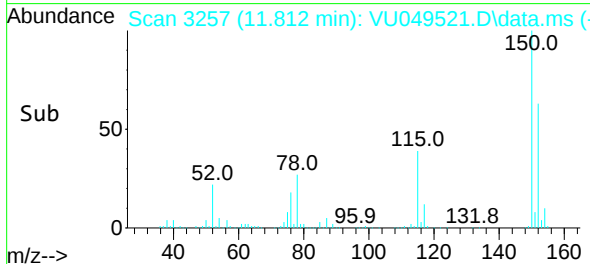
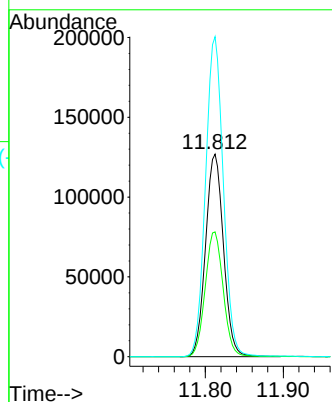
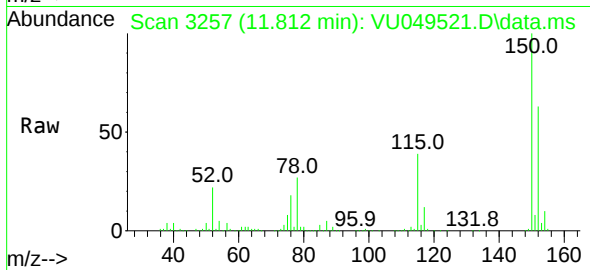




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.812 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VU049521.D
 Acq: 29 Jun 2022 18:18

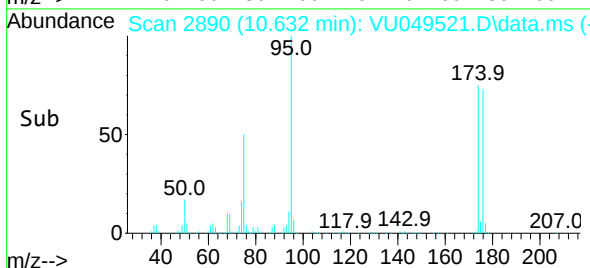
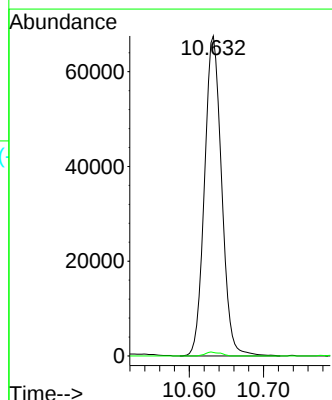
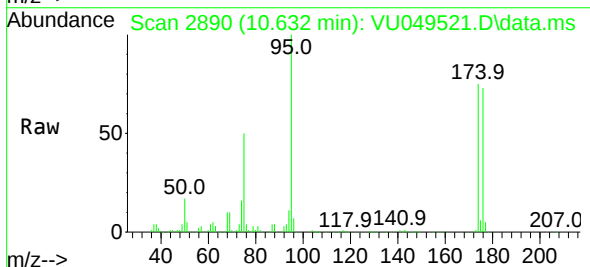
Instrument :
 MSVOA_U
 ClientSampleId :

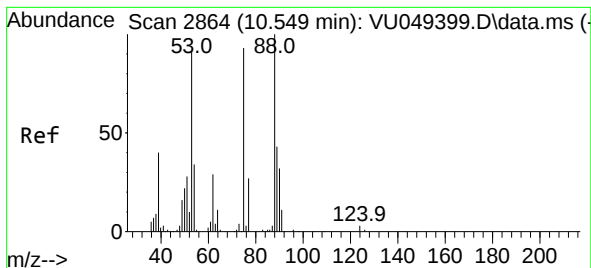
Tgt Ion:152 Resp: 202742
 Ion Ratio Lower Upper
 152 100
 115 61.8 37.0 110.9
 150 156.9 0.0 342.2



#76
 1,2,3-Trichloropropane
 Concen: 15.739 ug/l
 RT: 10.632 min Scan# 2890
 Delta R.T. -0.196 min
 Lab File: VU049521.D
 Acq: 29 Jun 2022 18:18

Tgt Ion: 75 Resp: 108169
 Ion Ratio Lower Upper
 75 100
 77 1.1 15.8 47.3#

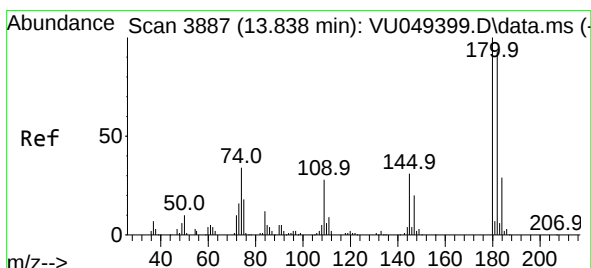
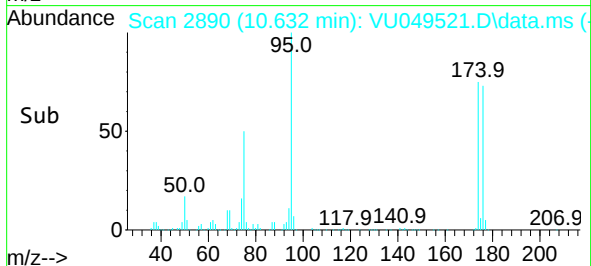
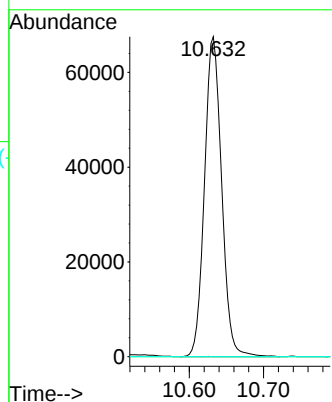
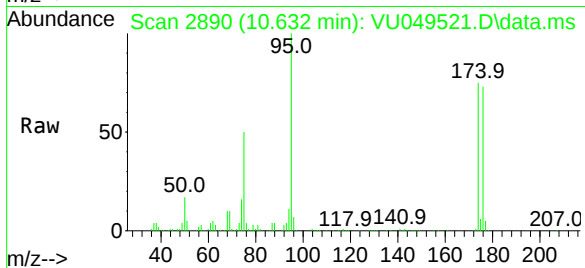




#81
trans-1,4-Dichloro-2-butene
Concen: 58.121 ug/l
RT: 10.632 min Scan# 21
Delta R.T. 0.084 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

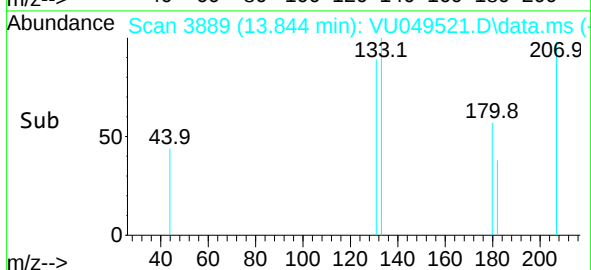
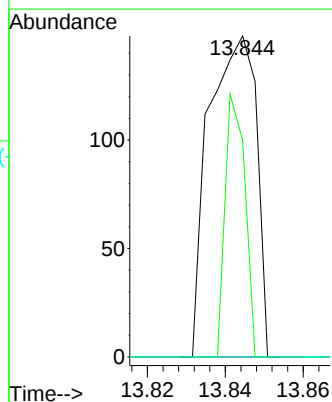
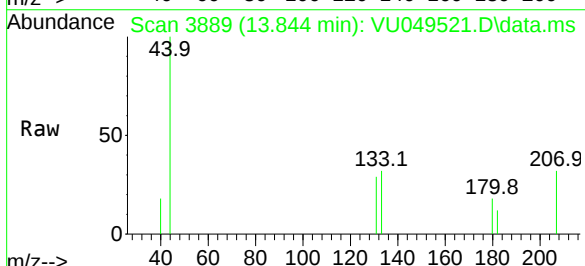
Instrument :
MSVOA_U
ClientSampleId :

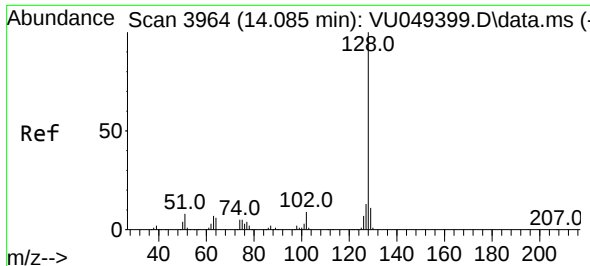
Tgt Ion: 75 Resp: 108169
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.780 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.007 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Tgt Ion:180 Resp: 125
Ion Ratio Lower Upper
180 100
182 34.4 47.9 143.6#
145 0.0 14.0 41.9#

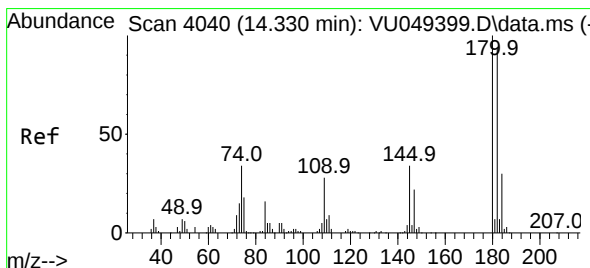
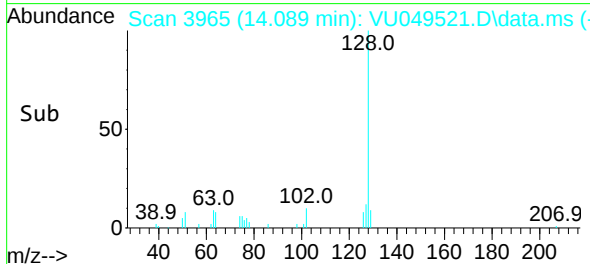
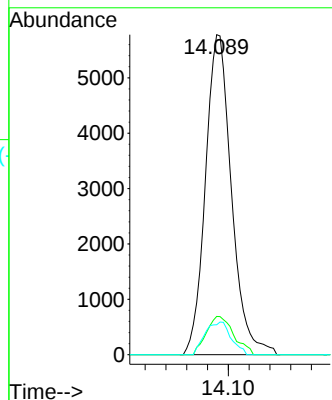
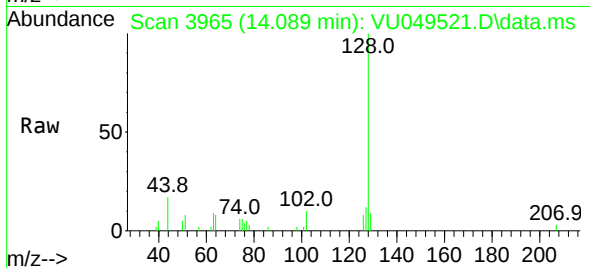




#95
Naphthalene
Concen: 2.347 ug/l
RT: 14.089 min Scan# 3964
Delta R.T. 0.003 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:128	Resp:	10040
Ion Ratio	Lower	Upper
128	100	
127	12.5	10.3 15.5
129	10.2	8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 1.195 ug/l
RT: 14.336 min Scan# 4042
Delta R.T. 0.007 min
Lab File: VU049521.D
Acq: 29 Jun 2022 18:18

Tgt Ion:180	Resp:	85
Ion Ratio	Lower	Upper
180	100	
182	95.3	48.4 145.0
145	0.0	14.8 44.4#

