

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102823\
 Data File : VX038622.D
 Acq On : 27 Oct 2023 23:55
 Operator : JC/MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 28 04:37:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML102823WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Oct 28 02:45:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.763	114	412021	50.000	ug/L	0.00
28) Chlorobenzene-d5	10.055	117	396056	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.024	152	208732	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.368	65	137049	49.272	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	98.540%		
7) Chloroethane-d5	1.672	69	107902	49.961	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	99.920%		
11) 1,1-Dichloroethene-d2	2.306	65	57751	46.682	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	93.360%		
21) 2-Butanone-d5	4.452	46	227422	104.977	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	104.980%		
24) Chloroform-d	5.056	84	274337	48.589	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	97.180%		
26) 1,2-Dichloroethane-d4	5.958	65	181294	50.639	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	101.280%		
32) Benzene-d6	5.977	84	550440	51.390	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	102.780%		
36) 1,2-Dichloropropane-d6	7.306	67	163543	52.518	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	105.040%		
41) Toluene-d8	8.647	98	515750	48.294	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	96.580%		
43) trans-1,3-Dichloroprop...	8.952	79	76416	50.224	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	100.440%		
47) 2-Hexanone-d5	9.384	63	196968	108.160	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	108.160%		
56) 1,1,2,2-Tetrachloroeth...	11.189	84	261880	51.580	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	103.160%		
66) 1,2-Dichlorobenzene-d4	12.317	152	212535	51.858	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	103.720%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	2748	0.838	ug/L	96
5) Vinyl chloride	1.374	62	2865	1.025	ug/L #	1
9) Trichlorofluoromethane	1.886	101	3791	0.829	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.313	101	4235	1.529	ug/L #	62
12) 1,1-Dichloroethene	2.313	96	3683	1.435	ug/L #	1
14) Carbon disulfide	2.514	76	20035	2.844	ug/L	99
17) trans-1,2-Dichloroethene	3.099	96	3670	1.382	ug/L	98
20) cis-1,2-Dichloroethene	4.489	96	2668	0.868	ug/L	95
25) Chloroform	5.093	83	6776	1.312	ug/L	93
31) Carbon tetrachloride	5.678	117	2297	0.581	ug/L #	46
35) Methylcyclohexane	7.385	83	3474	0.787	ug/L	94
44) trans-1,3-Dichloropropene	8.982	75	3223	0.836	ug/L	94
46) Tetrachloroethene	9.275	164	2604	1.029	ug/L	88
51) Chlorobenzene	10.079	112	6853	0.851	ug/L	99
52) Ethylbenzene	10.195	91	10180	0.769	ug/L	100
53) m,p-Xylene	10.305	106	4105	0.783	ug/L	91
54) o-Xylene	10.646	106	3318	0.653	ug/L	82
55) Styrene	10.665	104	5956	0.689	ug/L	90
60) Isopropylbenzene	10.963	105	9646	0.764	ug/L	98

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

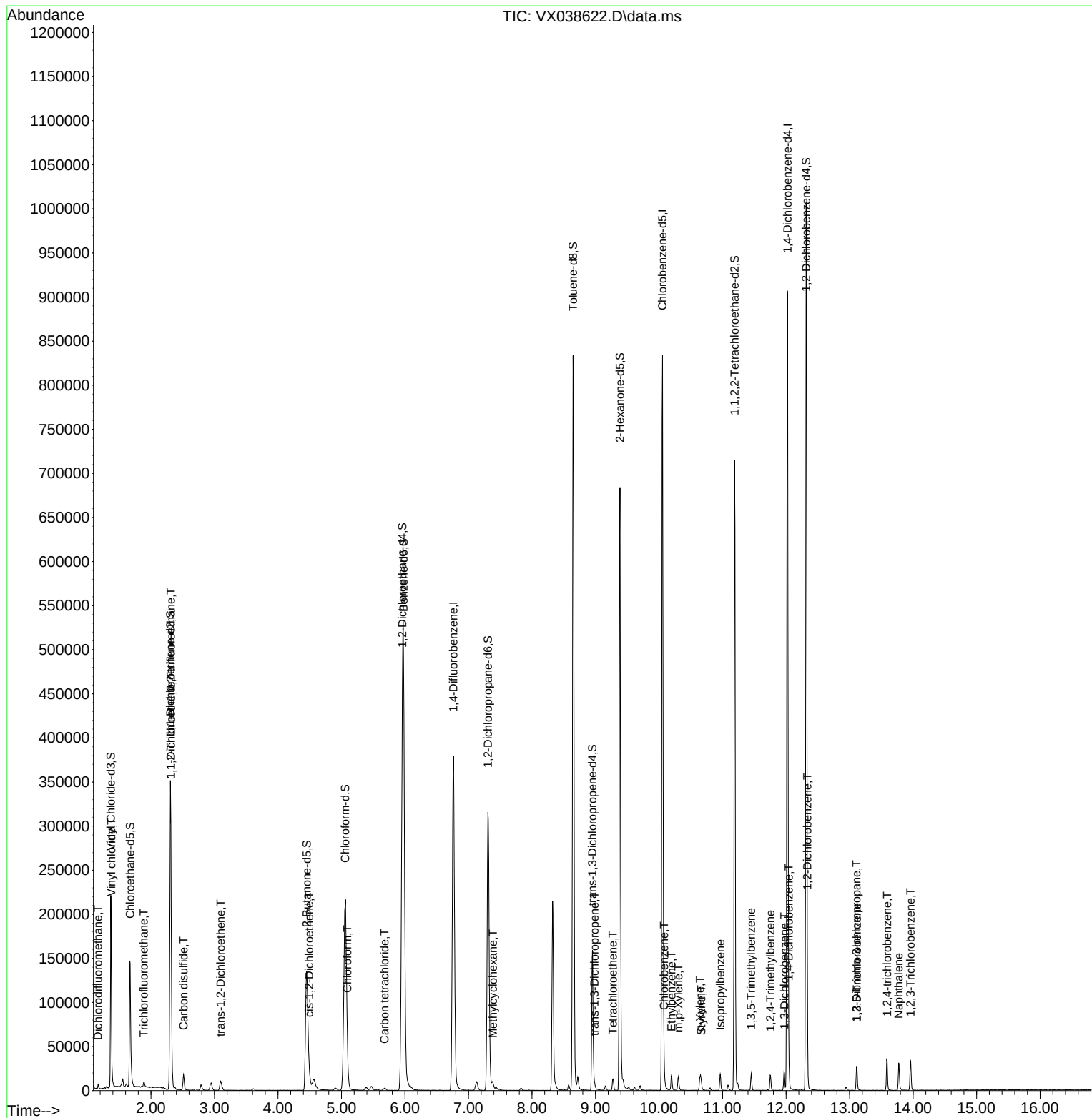
62) 1,3,5-Trimethylbenzene	11.451	105	8199	0.778	ug/L	97
63) 1,2,4-Trimethylbenzene	11.756	105	8671	0.835	ug/L	100
64) 1,3-Dichlorobenzene	11.975	146	7919	1.264	ug/L	94
65) 1,4-Dichlorobenzene	12.043	146	8999	1.394	ug/L	93
67) 1,2-Dichlorobenzene	12.335	146	6770	1.101	ug/L #	91
68) 1,2-Dibromo-3-chloropr...	13.109	75	1380	1.305	ug/L #	2
69) 1,3,5-Trichlorobenzene	13.116	180	7709	1.713	ug/L	98
70) 1,2,4-trichlorobenzene	13.591	180	8840	2.089	ug/L	96
71) Naphthalene	13.774	128	22355	1.763	ug/L	97
72) 1,2,3-Trichlorobenzene	13.963	180	8540	2.070	ug/L	93

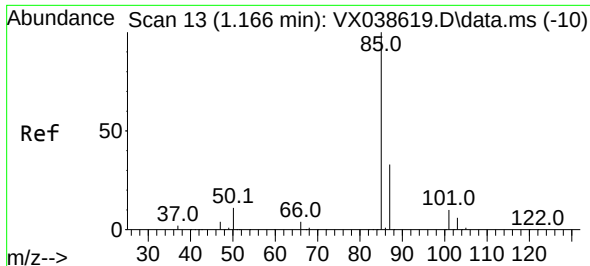
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
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Response via : Initial Calibration

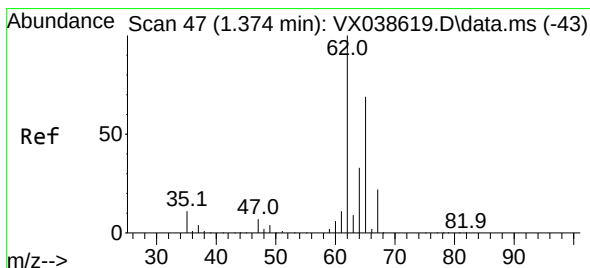
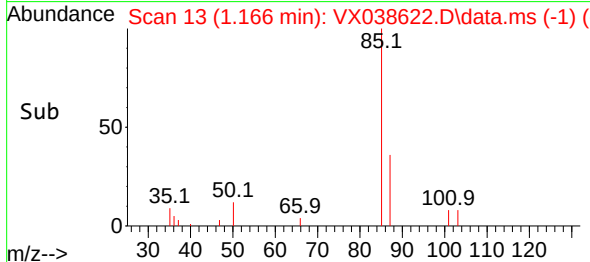
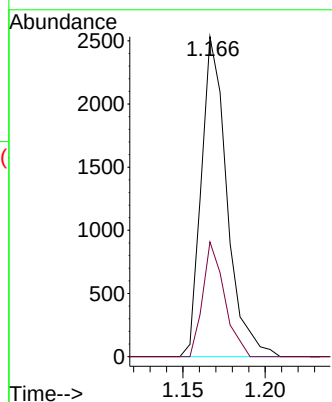
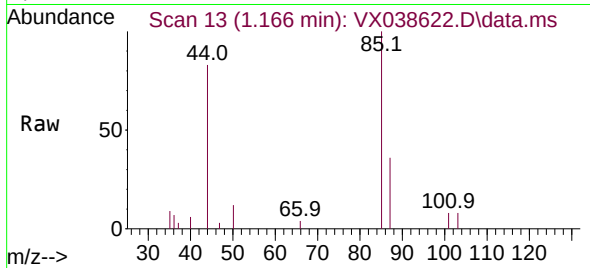




#2
Dichlorodifluoromethane
Concen: 0.838 ug/L
RT: 1.166 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

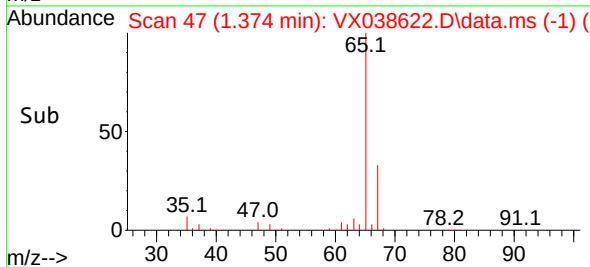
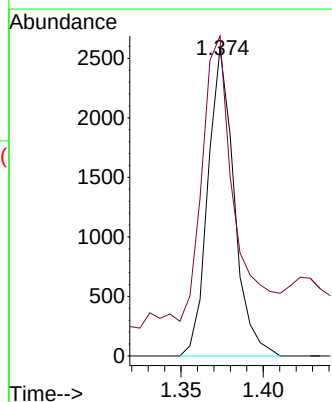
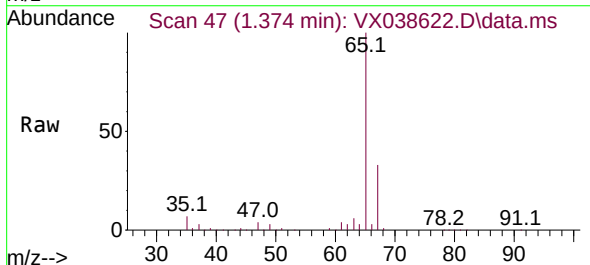
Instrument :
MSVOA_X
ClientSampleId :

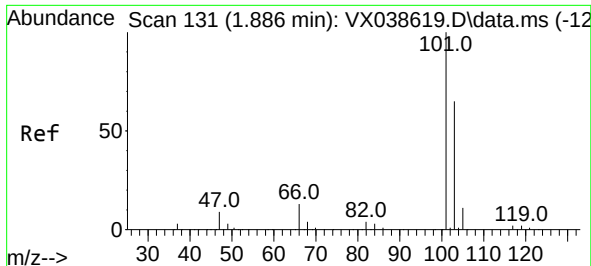
Tgt Ion: 85 Resp: 2748
Ion Ratio Lower Upper
85 100
87 30.4 26.1 39.1



#5
Vinyl chloride
Concen: 1.025 ug/L
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

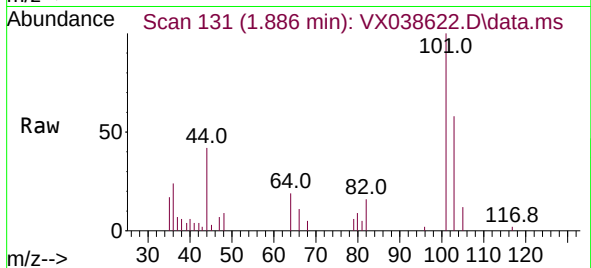
Tgt Ion: 62 Resp: 2865
Ion Ratio Lower Upper
62 100
64 103.9 23.7 43.9#



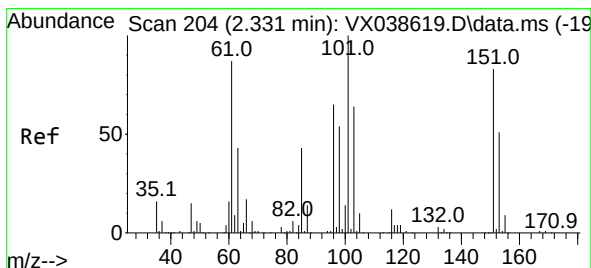
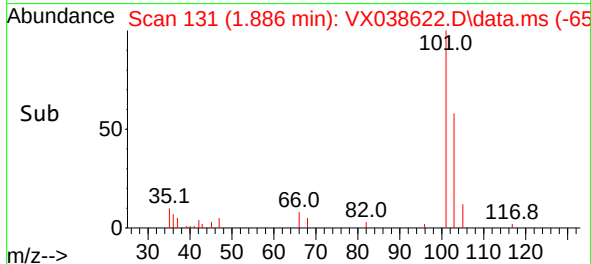
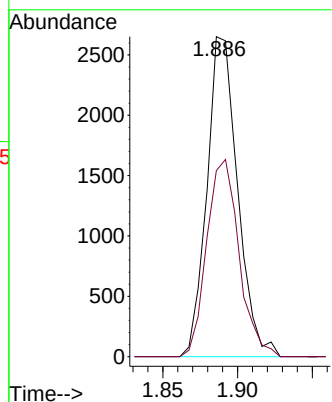


#9
Trichlorofluoromethane
Concen: 0.829 ug/L
RT: 1.886 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

Instrument :
MSVOA_X
ClientSampleId :

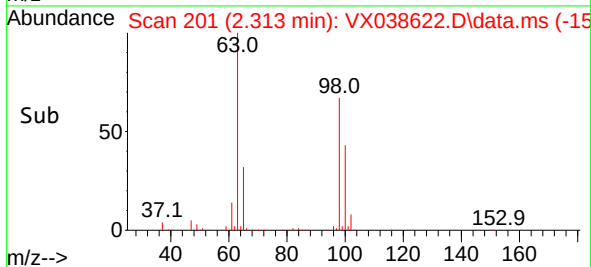
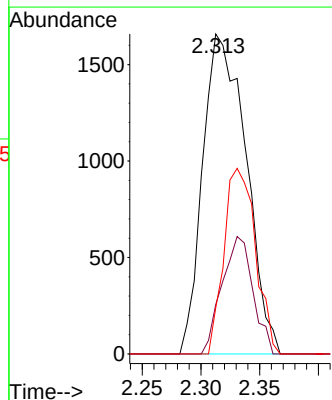
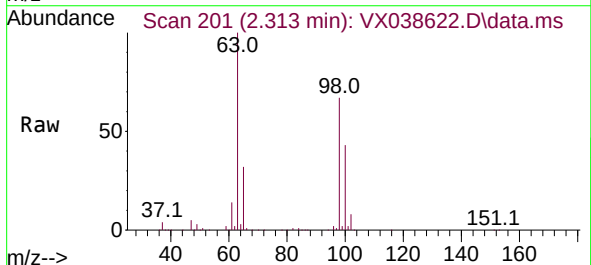


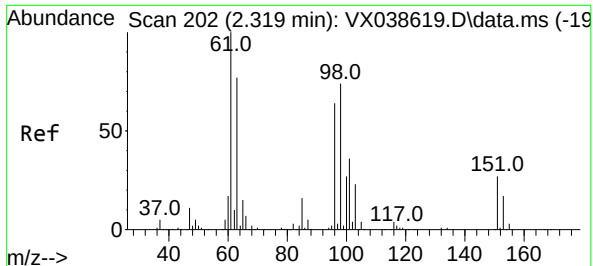
Tgt Ion:101 Resp: 3791
Ion Ratio Lower Upper
101 100
103 64.6 51.8 77.6



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.529 ug/L
RT: 2.313 min Scan# 201
Delta R.T. -0.018 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

Tgt Ion:101 Resp: 4235
Ion Ratio Lower Upper
101 100
85 26.3 34.3 51.5#
151 42.3 65.8 98.8#





#12

1,1-Dichloroethene

Concen: 1.435 ug/L

RT: 2.313 min Scan# 20

Delta R.T. -0.006 min

Lab File: VX038622.D

Acq: 27 Oct 2023 23:55

Instrument :

MSVOA_X

ClientSampleId :

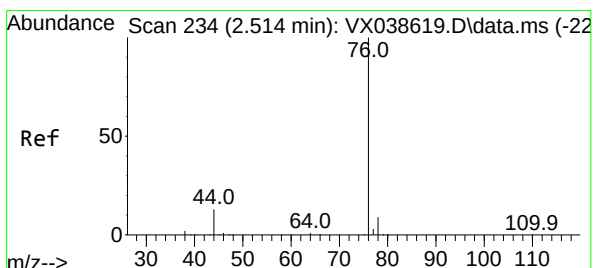
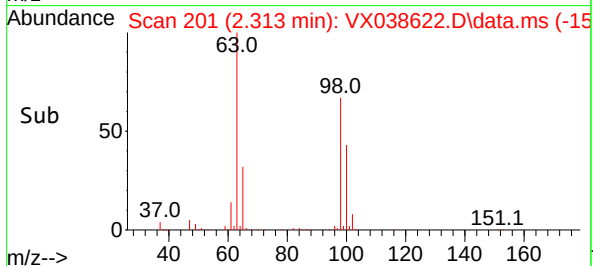
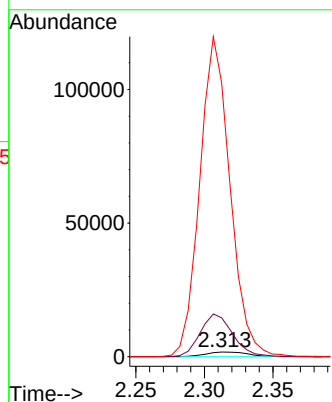
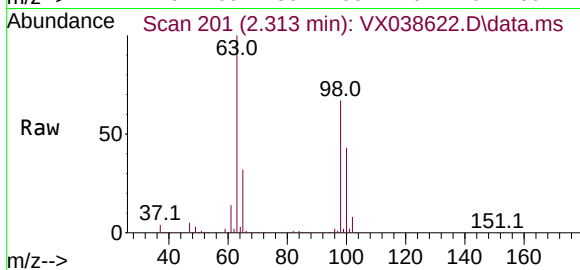
Tgt Ion: 96 Resp: 3683

Ion Ratio Lower Upper

96 100

61 838.4 109.6 203.6#

63 5918.1 84.9 157.7#



#14

Carbon disulfide

Concen: 2.844 ug/L

RT: 2.514 min Scan# 234

Delta R.T. 0.000 min

Lab File: VX038622.D

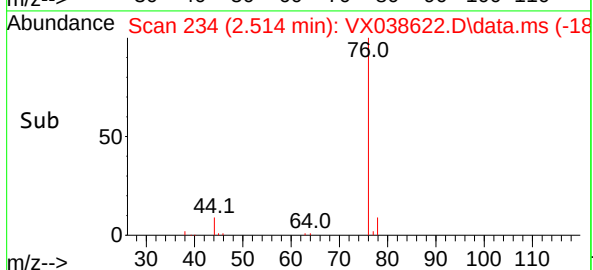
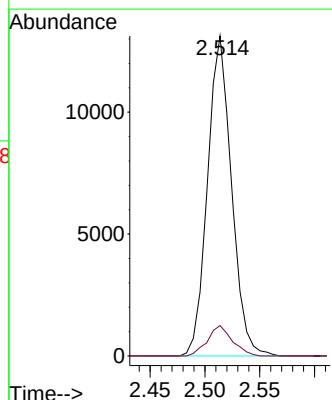
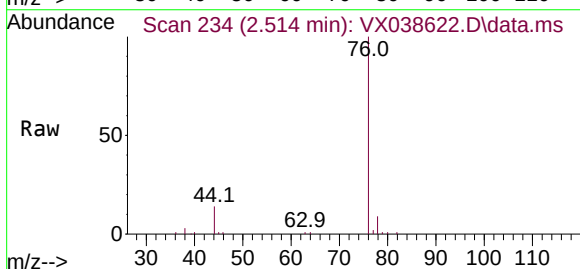
Acq: 27 Oct 2023 23:55

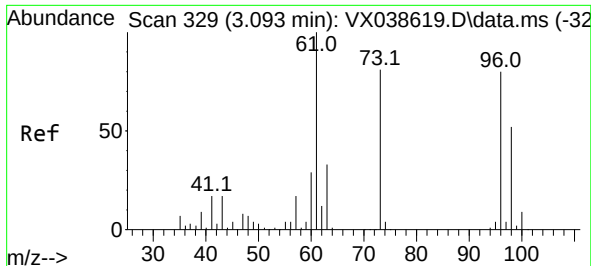
Tgt Ion: 76 Resp: 20035

Ion Ratio Lower Upper

76 100

78 9.5 7.2 10.8





#17

trans-1,2-Dichloroethene

Concen: 1.382 ug/L

RT: 3.099 min Scan# 31

Delta R.T. 0.006 min

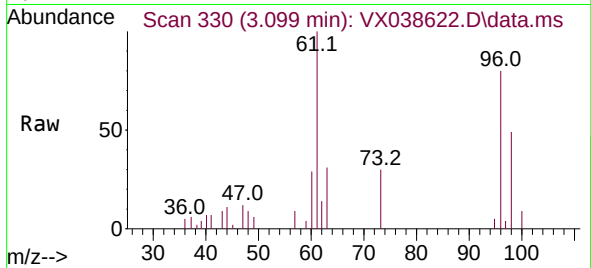
Lab File: VX038622.D

Acq: 27 Oct 2023 23:55

Instrument :

MSVOA_X

ClientSampleId :



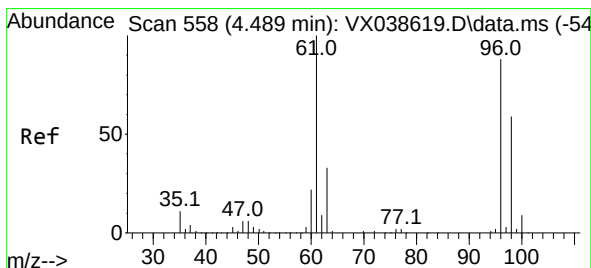
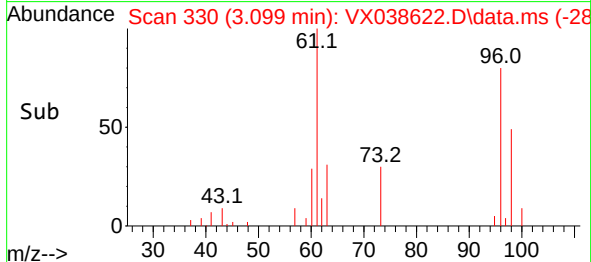
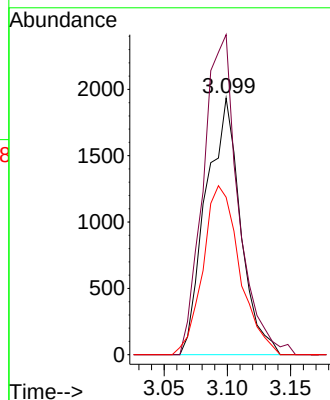
Tgt Ion: 96 Resp: 3670

Ion Ratio Lower Upper

96 100

61 124.7 87.1 161.7

98 61.3 45.4 84.4



#20

cis-1,2-Dichloroethene

Concen: 0.868 ug/L

RT: 4.489 min Scan# 558

Delta R.T. 0.000 min

Lab File: VX038622.D

Acq: 27 Oct 2023 23:55

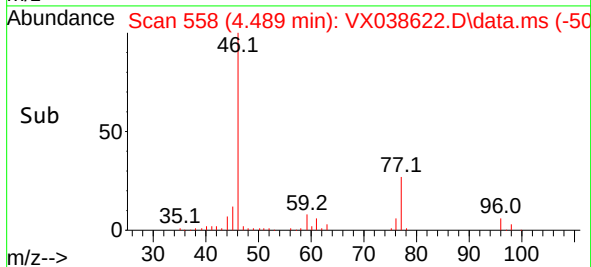
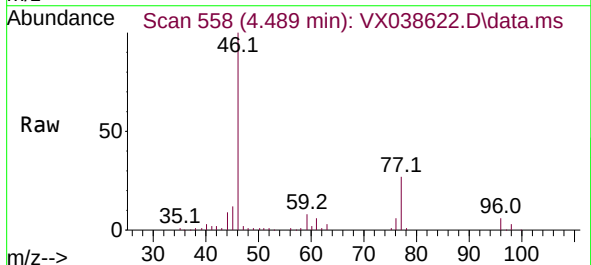
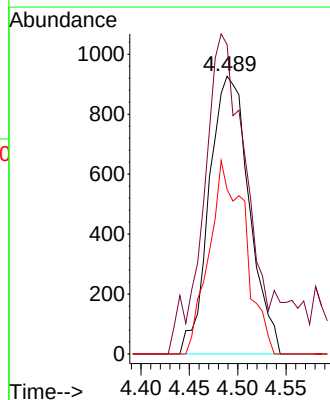
Tgt Ion: 96 Resp: 2668

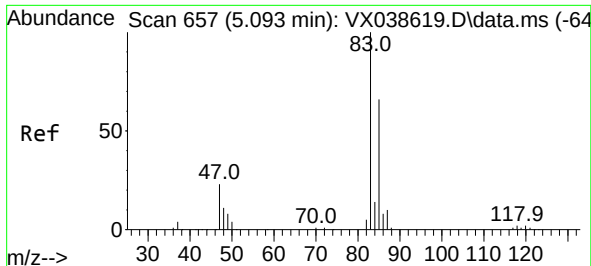
Ion Ratio Lower Upper

96 100

61 111.4 79.4 147.4

98 59.2 46.5 86.5





#25

Chloroform

Concen: 1.312 ug/L

RT: 5.093 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX038622.D

Acq: 27 Oct 2023 23:55

Instrument :

MSVOA_X

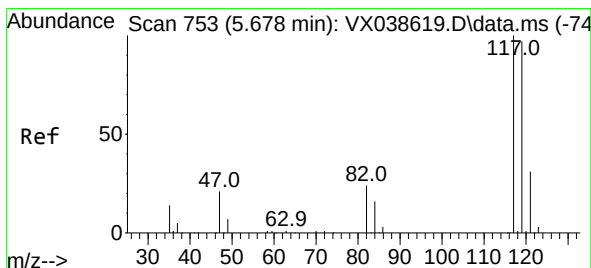
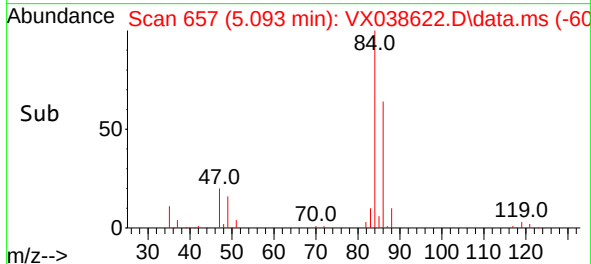
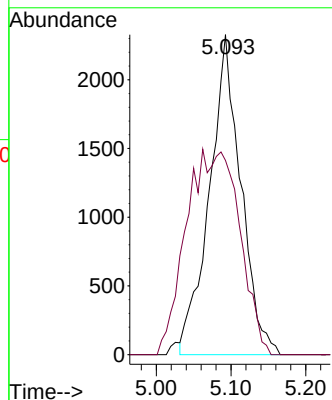
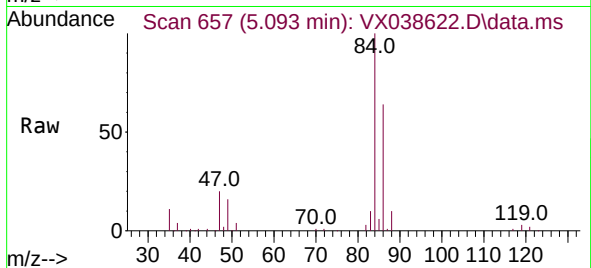
ClientSampleId :

Tgt Ion: 83 Resp: 6776

Ion Ratio Lower Upper

83 100

85 60.7 46.3 86.1



#31

Carbon tetrachloride

Concen: 0.581 ug/L

RT: 5.678 min Scan# 753

Delta R.T. 0.000 min

Lab File: VX038622.D

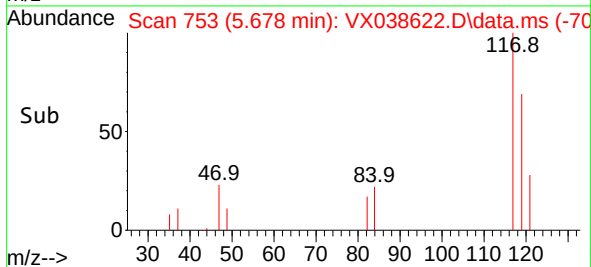
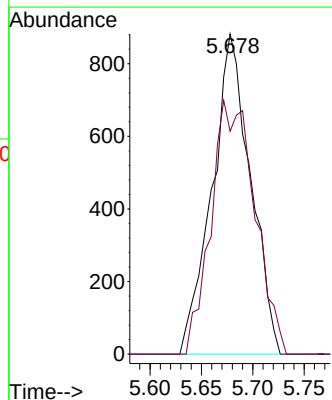
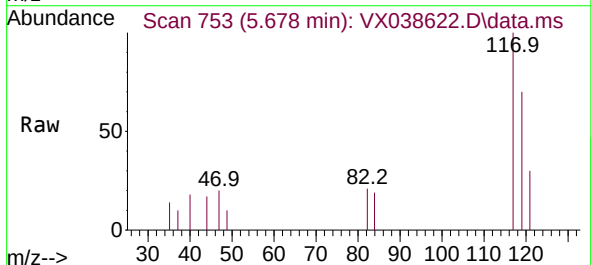
Acq: 27 Oct 2023 23:55

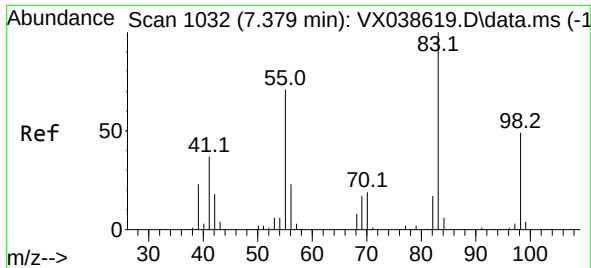
Tgt Ion: 117 Resp: 2297

Ion Ratio Lower Upper

117 100

119 43.6 77.3 115.9#

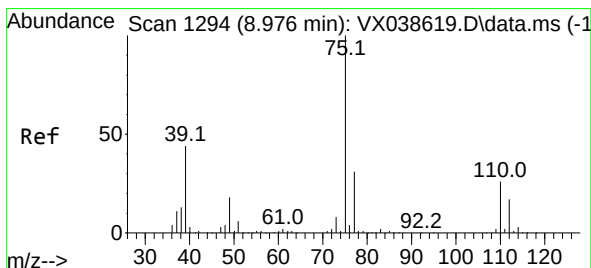
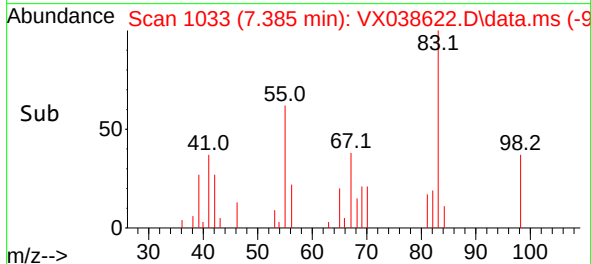
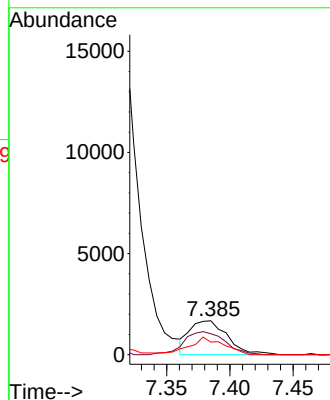
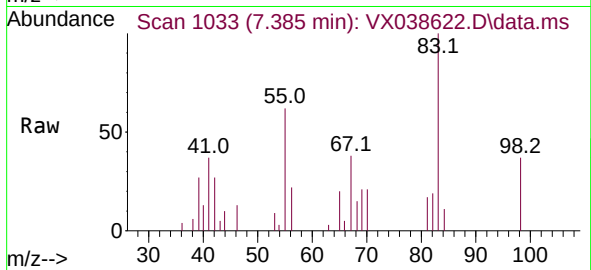




#35
Methylcyclohexane
Concen: 0.787 ug/L
RT: 7.385 min Scan# 1033
Delta R.T. 0.006 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

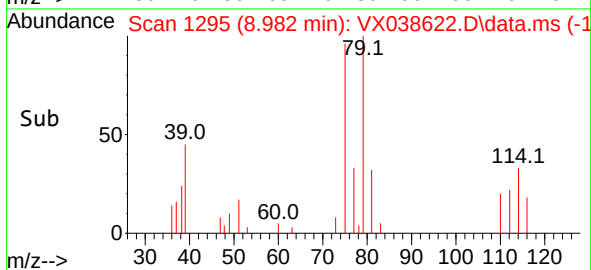
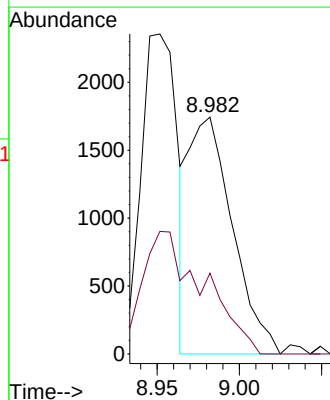
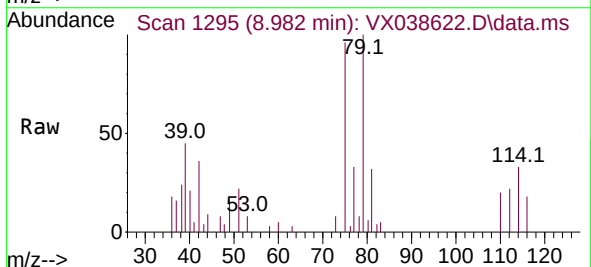
Instrument :
MSVOA_X
ClientSampleId :

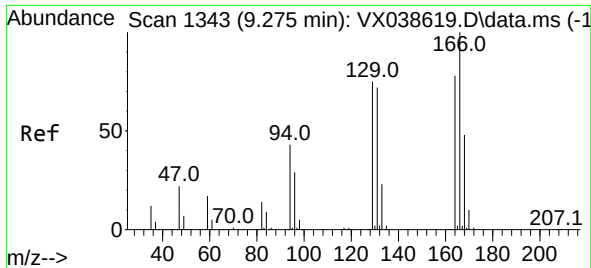
Tgt Ion: 83 Resp: 3474
Ion Ratio Lower Upper
83 100
55 73.9 54.3 81.5
98 46.5 39.1 58.7



#44
trans-1,3-Dichloropropene
Concen: 0.836 ug/L
RT: 8.982 min Scan# 1295
Delta R.T. 0.006 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

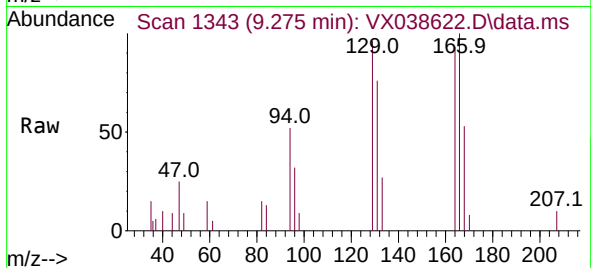
Tgt Ion: 75 Resp: 3223
Ion Ratio Lower Upper
75 100
77 34.1 21.4 39.8



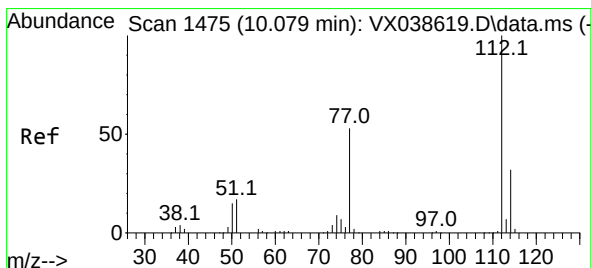
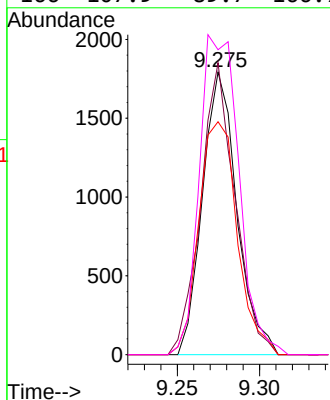
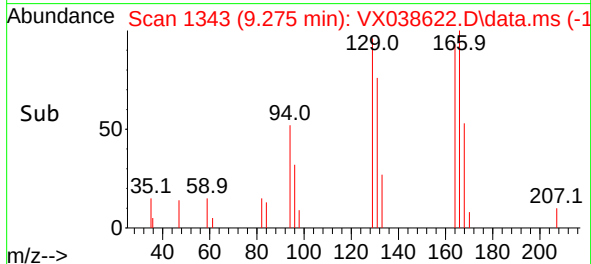


#46
Tetrachloroethene
Concen: 1.029 ug/L
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

Instrument :
MSVOA_X
ClientSampleId :

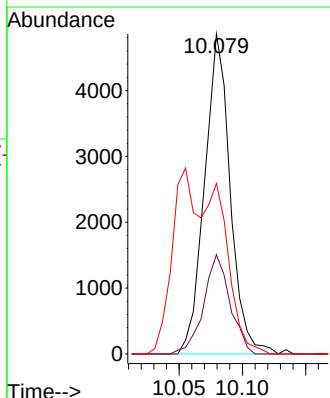
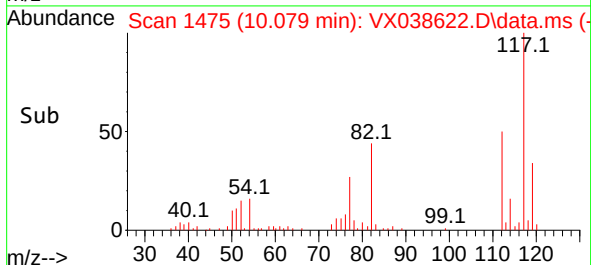
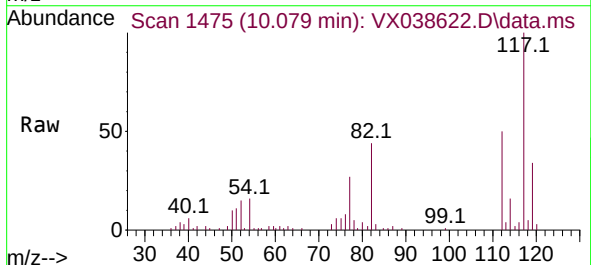


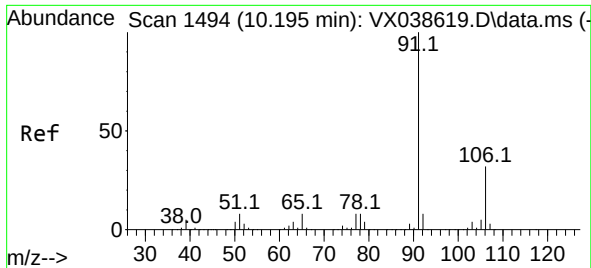
Tgt Ion:164	Resp:	2604	
Ion	Ratio	Lower	Upper
164	100		
129	103.2	67.5	125.4
131	82.4	64.5	119.9
166	107.9	89.7	166.7



#51
Chlorobenzene
Concen: 0.851 ug/L
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

Tgt Ion:112	Resp:	6853	
Ion	Ratio	Lower	Upper
112	100		
114	31.1	22.1	41.1
77	53.3	43.1	64.7

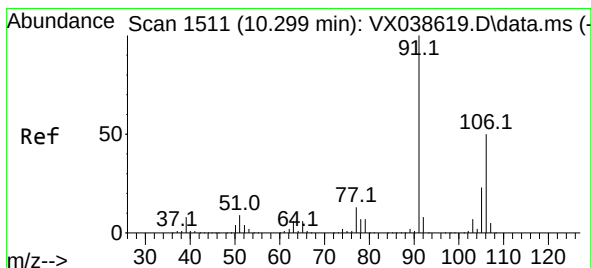
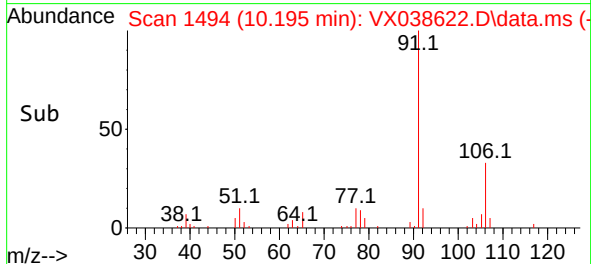
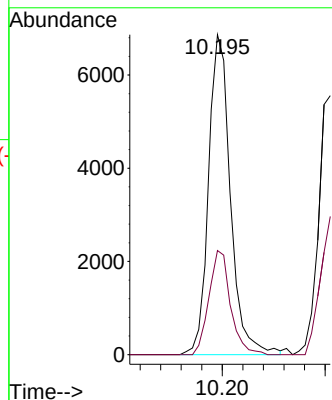
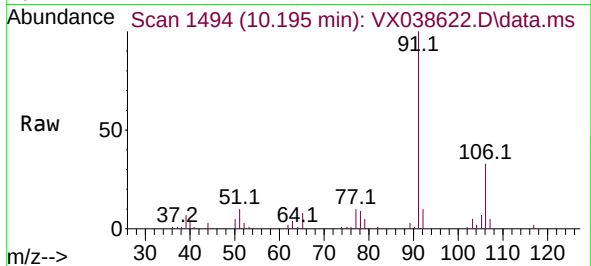




#52
Ethylbenzene
Concen: 0.769 ug/L
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

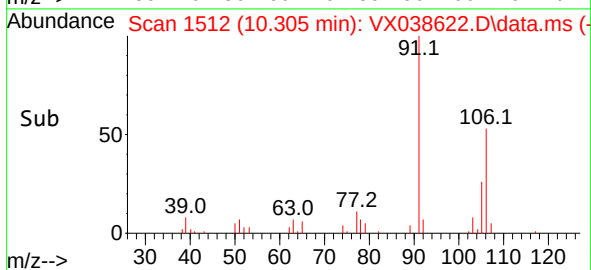
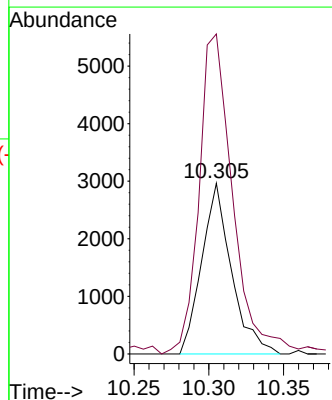
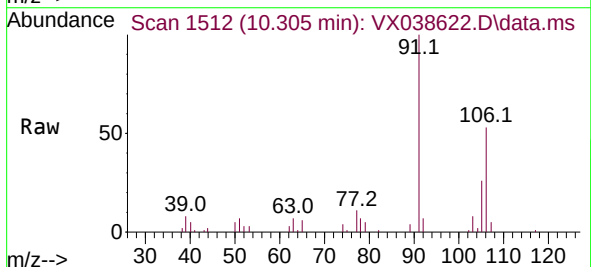
Instrument :
MSVOA_X
ClientSampleId :

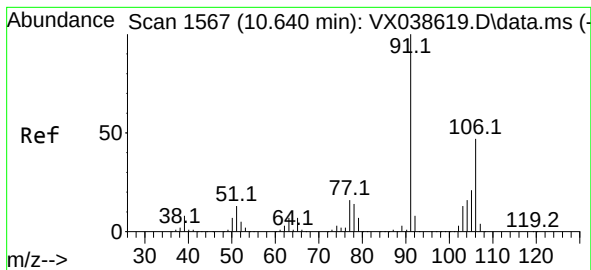
Tgt Ion: 91 Resp: 10180
Ion Ratio Lower Upper
91 100
106 32.5 22.7 42.1



#53
m,p-Xylene
Concen: 0.783 ug/L
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

Tgt Ion: 106 Resp: 4105
Ion Ratio Lower Upper
106 100
91 187.4 141.2 262.2





#54

o-Xylene

Concen: 0.653 ug/L

RT: 10.646 min Scan# 1571

Delta R.T. 0.006 min

Lab File: VX038622.D

Acq: 27 Oct 2023 23:55

Instrument :

MSVOA_X

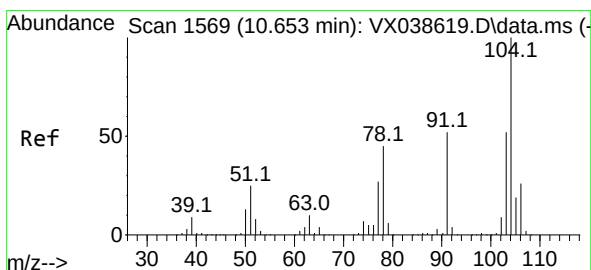
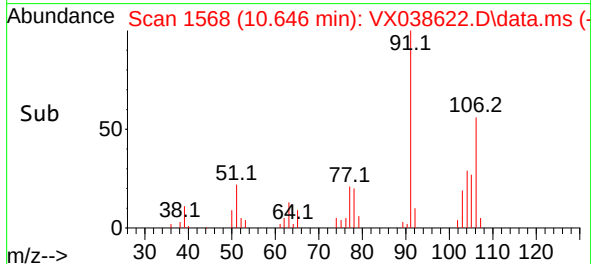
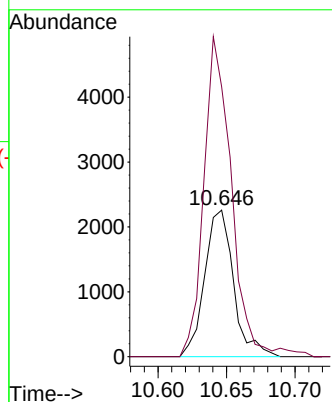
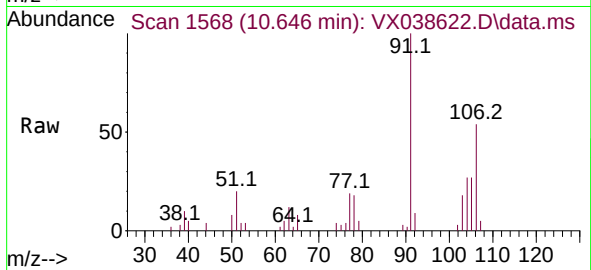
ClientSampleId :

Tgt Ion:106 Resp: 3318

Ion Ratio Lower Upper

106 100

91 184.1 149.0 276.8



#55

Styrene

Concen: 0.689 ug/L

RT: 10.665 min Scan# 1571

Delta R.T. 0.012 min

Lab File: VX038622.D

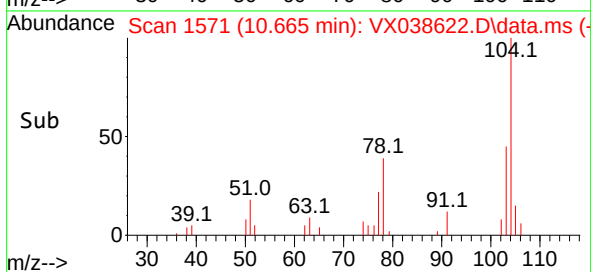
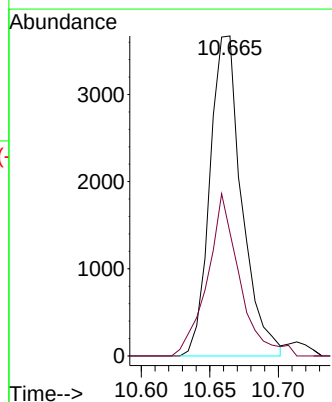
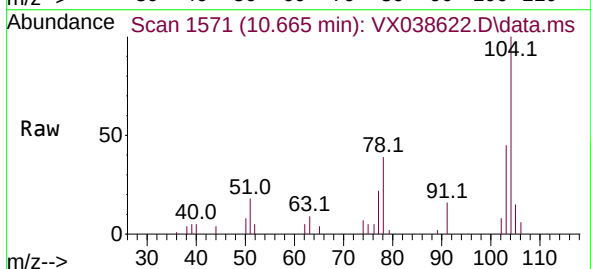
Acq: 27 Oct 2023 23:55

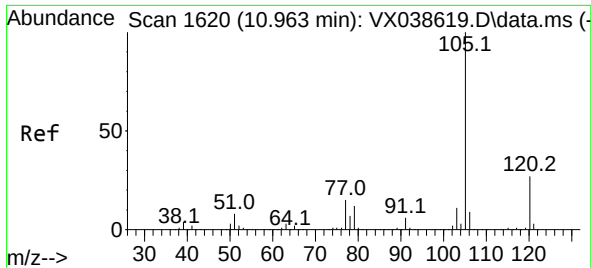
Tgt Ion:104 Resp: 5956

Ion Ratio Lower Upper

104 100

78 38.5 31.7 58.9

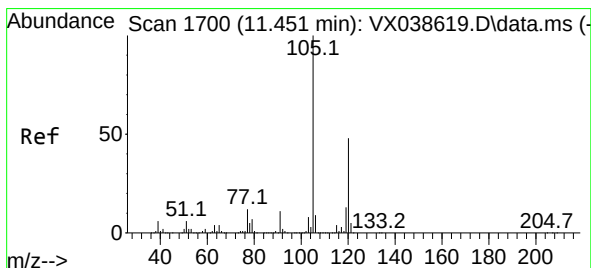
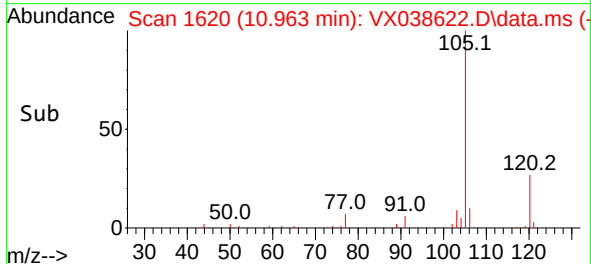
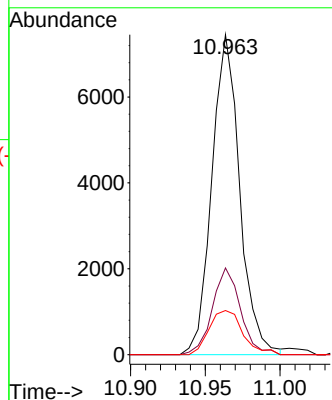
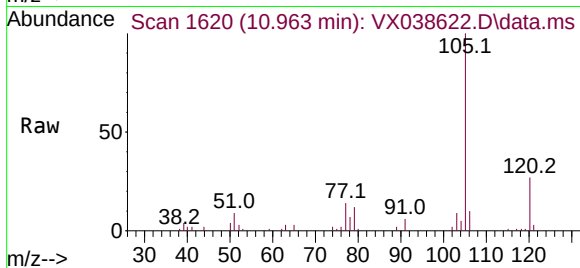




#60
Isopropylbenzene
Concen: 0.764 ug/L
RT: 10.963 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

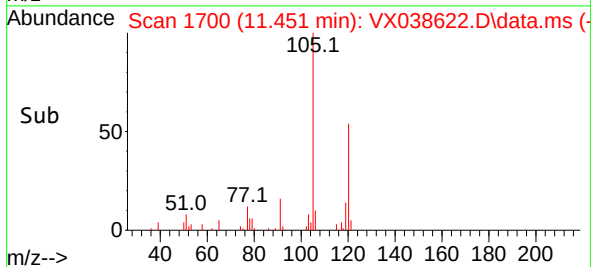
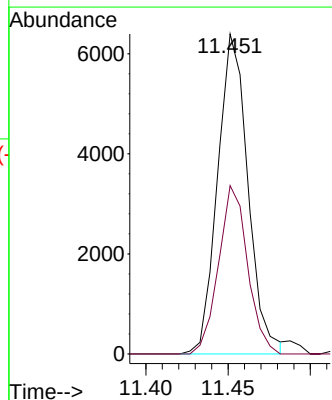
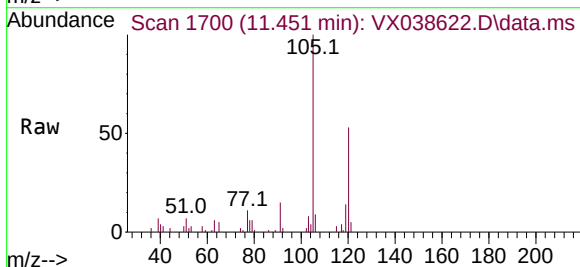
Instrument :
MSVOA_X
ClientSampleId :

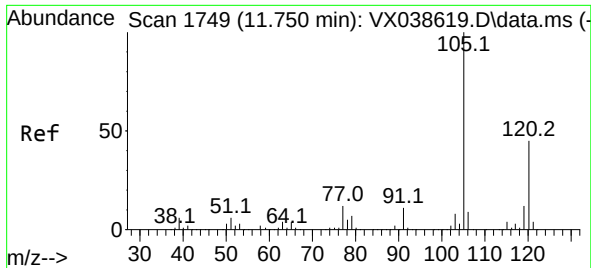
Tgt Ion:	105	Resp:	9646
Ion Ratio	Lower	Upper	
105	100		
120	27.3	21.6	32.4
77	16.7	12.1	18.1



#62
1,3,5-Trimethylbenzene
Concen: 0.778 ug/L
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

Tgt Ion:	105	Resp:	8199
Ion Ratio	Lower	Upper	
105	100		
120	50.3	38.8	58.2

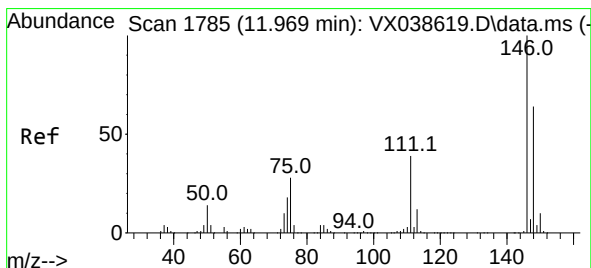
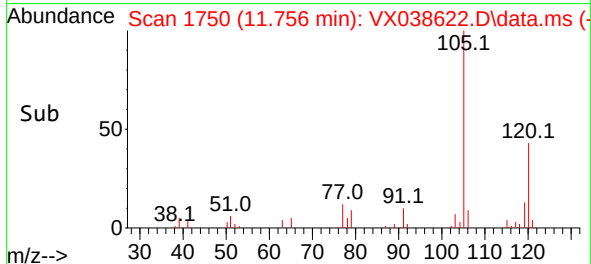
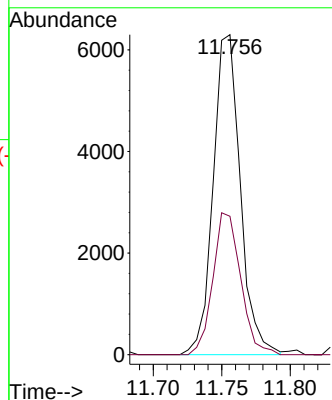
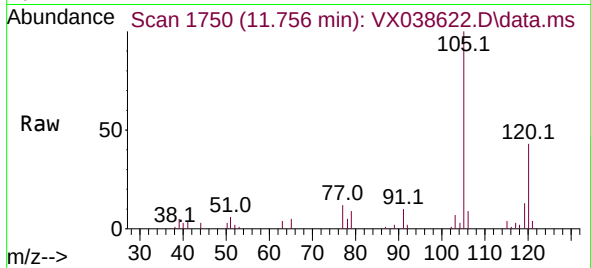




#63
 1,2,4-Trimethylbenzene
 Concen: 0.835 ug/L
 RT: 11.756 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VX038622.D
 Acq: 27 Oct 2023 23:55

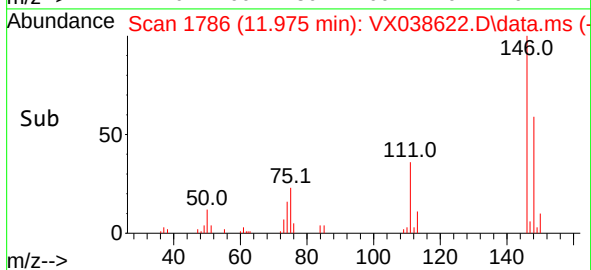
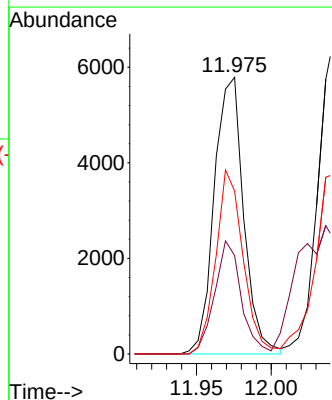
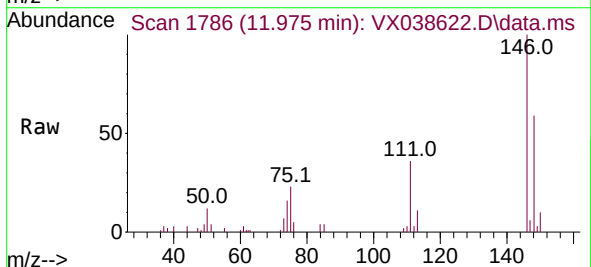
Instrument :
 MSVOA_X
 ClientSampleId :

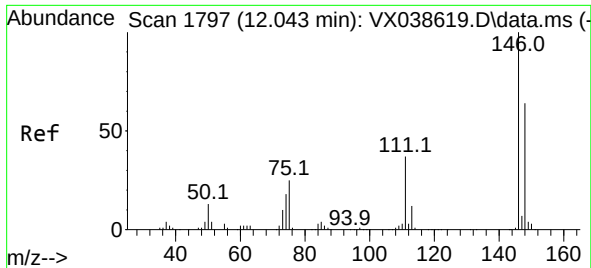
Tgt Ion:105 Resp: 8671
 Ion Ratio Lower Upper
 105 100
 120 45.4 36.6 54.8



#64
 1,3-Dichlorobenzene
 Concen: 1.264 ug/L
 RT: 11.975 min Scan# 1786
 Delta R.T. 0.006 min
 Lab File: VX038622.D
 Acq: 27 Oct 2023 23:55

Tgt Ion:146 Resp: 7919
 Ion Ratio Lower Upper
 146 100
 111 35.6 27.0 50.2
 148 58.9 44.9 83.3

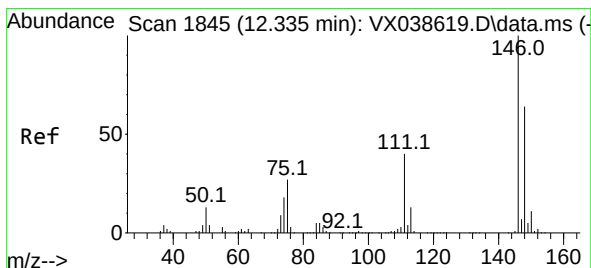
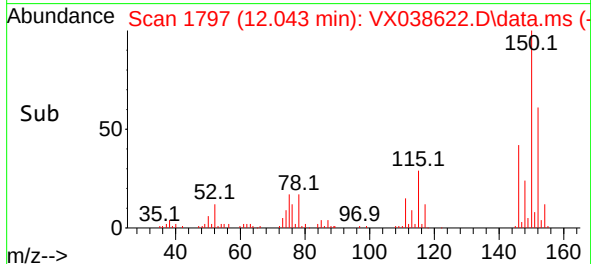
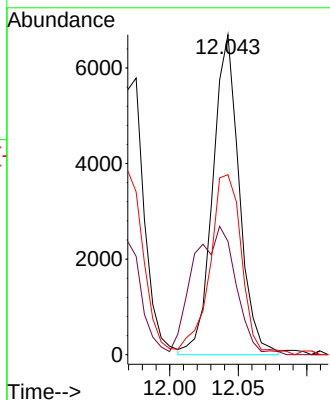
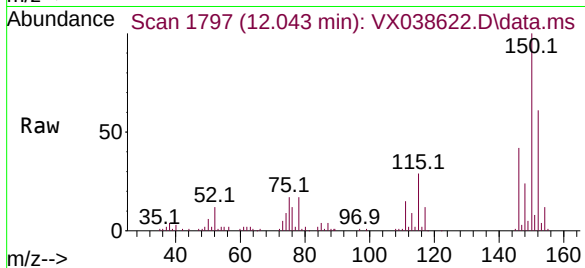




#65
1,4-Dichlorobenzene
Concen: 1.394 ug/L
RT: 12.043 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

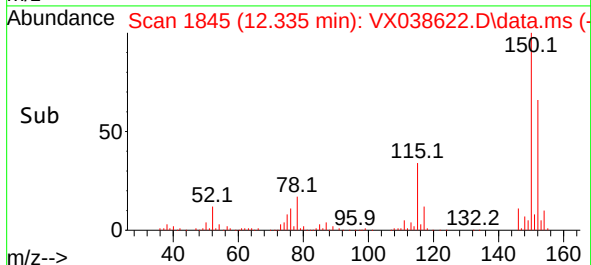
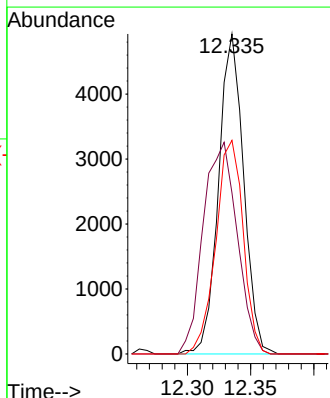
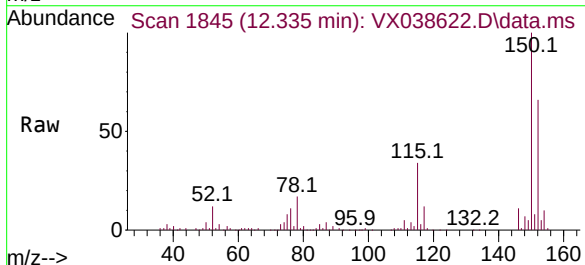
Instrument :
MSVOA_X
ClientSampleId :

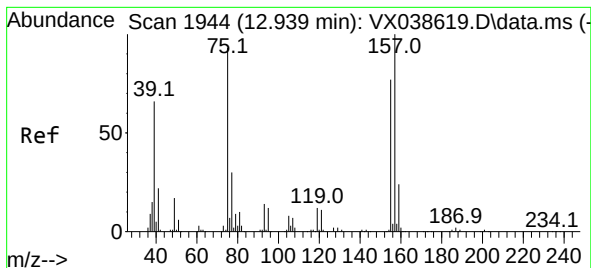
Tgt Ion:146 Resp: 8999
Ion Ratio Lower Upper
146 100
111 35.4 26.0 48.2
148 56.2 44.8 83.2



#67
1,2-Dichlorobenzene
Concen: 1.101 ug/L
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX038622.D
Acq: 27 Oct 2023 23:55

Tgt Ion:146 Resp: 6770
Ion Ratio Lower Upper
146 100
111 50.4 32.2 48.2#
148 66.7 51.0 76.6

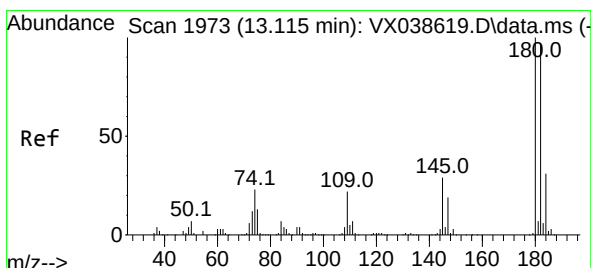
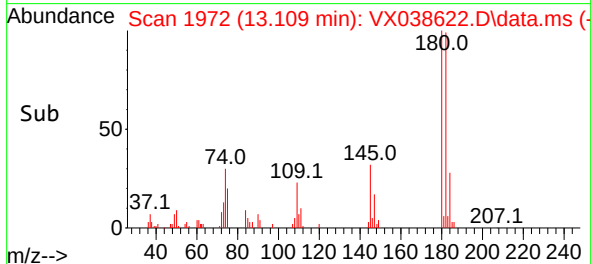
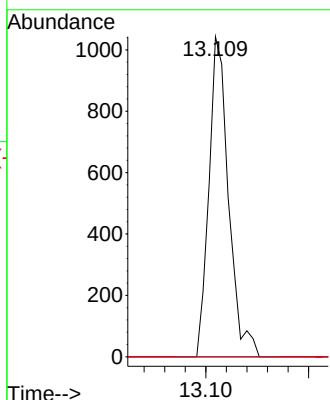
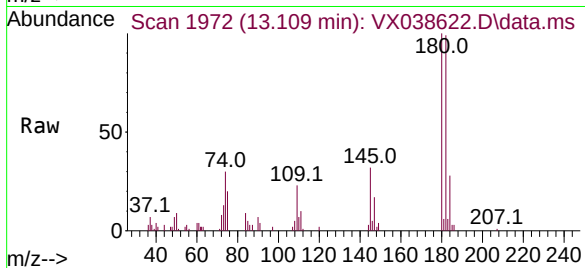




#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.305 ug/L
 RT: 13.109 min Scan# 1944
 Delta R.T. 0.171 min
 Lab File: VX038622.D
 Acq: 27 Oct 2023 23:55

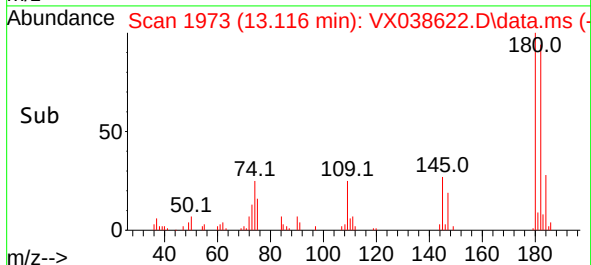
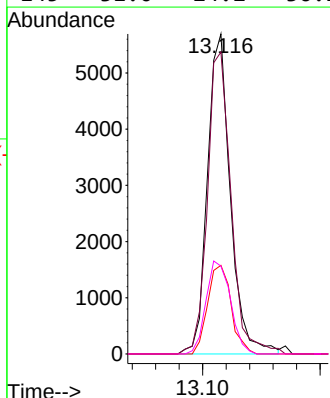
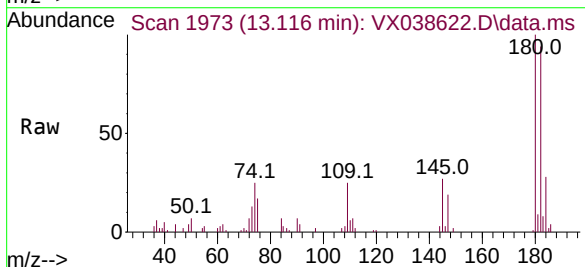
Instrument :
 MSVOA_X
 ClientSampleId :

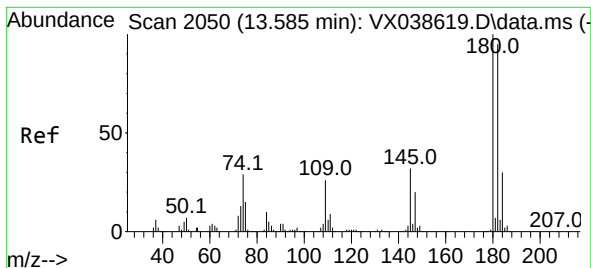
Tgt Ion: 75 Resp: 1380
 Ion Ratio Lower Upper
 75 100
 155 0.0 66.6 99.8#
 157 0.0 85.9 128.9#



#69
 1,3,5-Trichlorobenzene
 Concen: 1.713 ug/L
 RT: 13.116 min Scan# 1973
 Delta R.T. 0.000 min
 Lab File: VX038622.D
 Acq: 27 Oct 2023 23:55

Tgt Ion: 180 Resp: 7709
 Ion Ratio Lower Upper
 180 100
 182 97.3 76.9 115.3
 184 28.5 24.5 36.7
 145 31.0 24.2 36.2





#70

1,2,4-trichlorobenzene

Concen: 2.089 ug/L

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX038622.D

Acq: 27 Oct 2023 23:55

Instrument :

MSVOA_X

ClientSampleId :

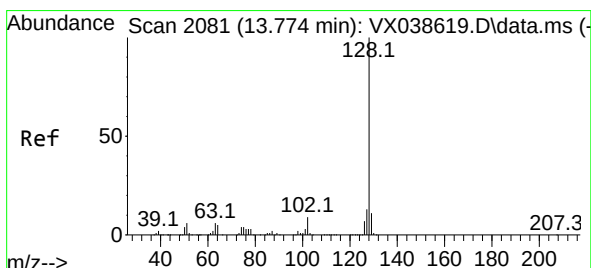
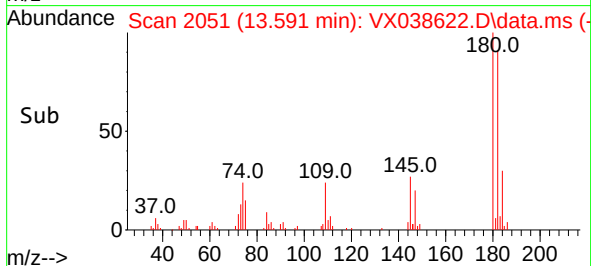
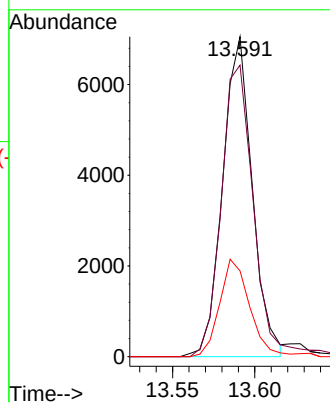
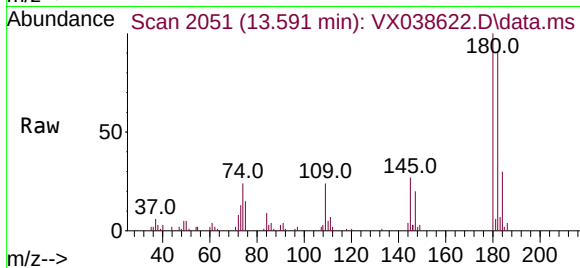
Tgt Ion:180 Resp: 8840

Ion Ratio Lower Upper

180 100

182 99.6 75.9 113.9

145 30.8 24.5 36.7



#71

Naphthalene

Concen: 1.763 ug/L

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX038622.D

Acq: 27 Oct 2023 23:55

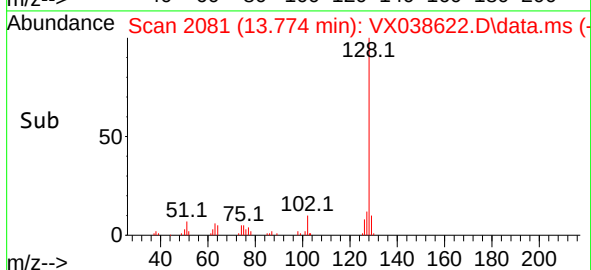
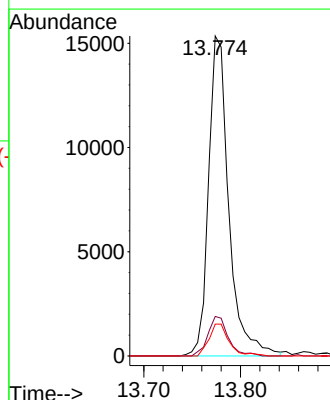
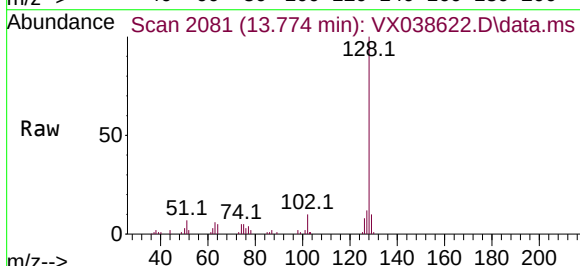
Tgt Ion:128 Resp: 22355

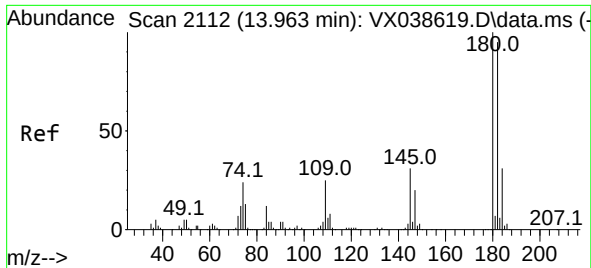
Ion Ratio Lower Upper

128 100

127 12.4 10.3 15.5

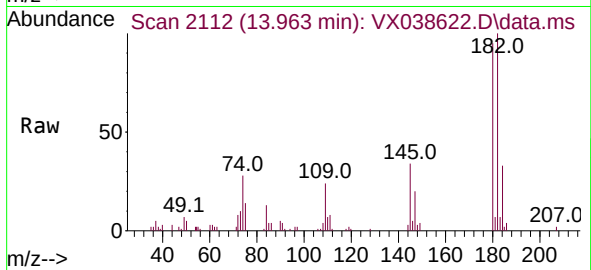
129 9.5 8.9 13.3





#72
 1,2,3-Trichlorobenzene
 Concen: 2.070 ug/L
 RT: 13.963 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VX038622.D
 Acq: 27 Oct 2023 23:55

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion:	180	Resp:	8540
Ion	Ratio	Lower	Upper
180	100		
182	104.2	76.2	114.4
145	33.1	25.8	38.6

