

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080224\
 Data File : VX042852.D
 Acq On : 02 Aug 2024 19:18
 Operator : JC/MD
 Sample : P3386-01 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 02 21:36:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080224W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 02 21:32:14 2024
 Response via : Initial Calibration

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

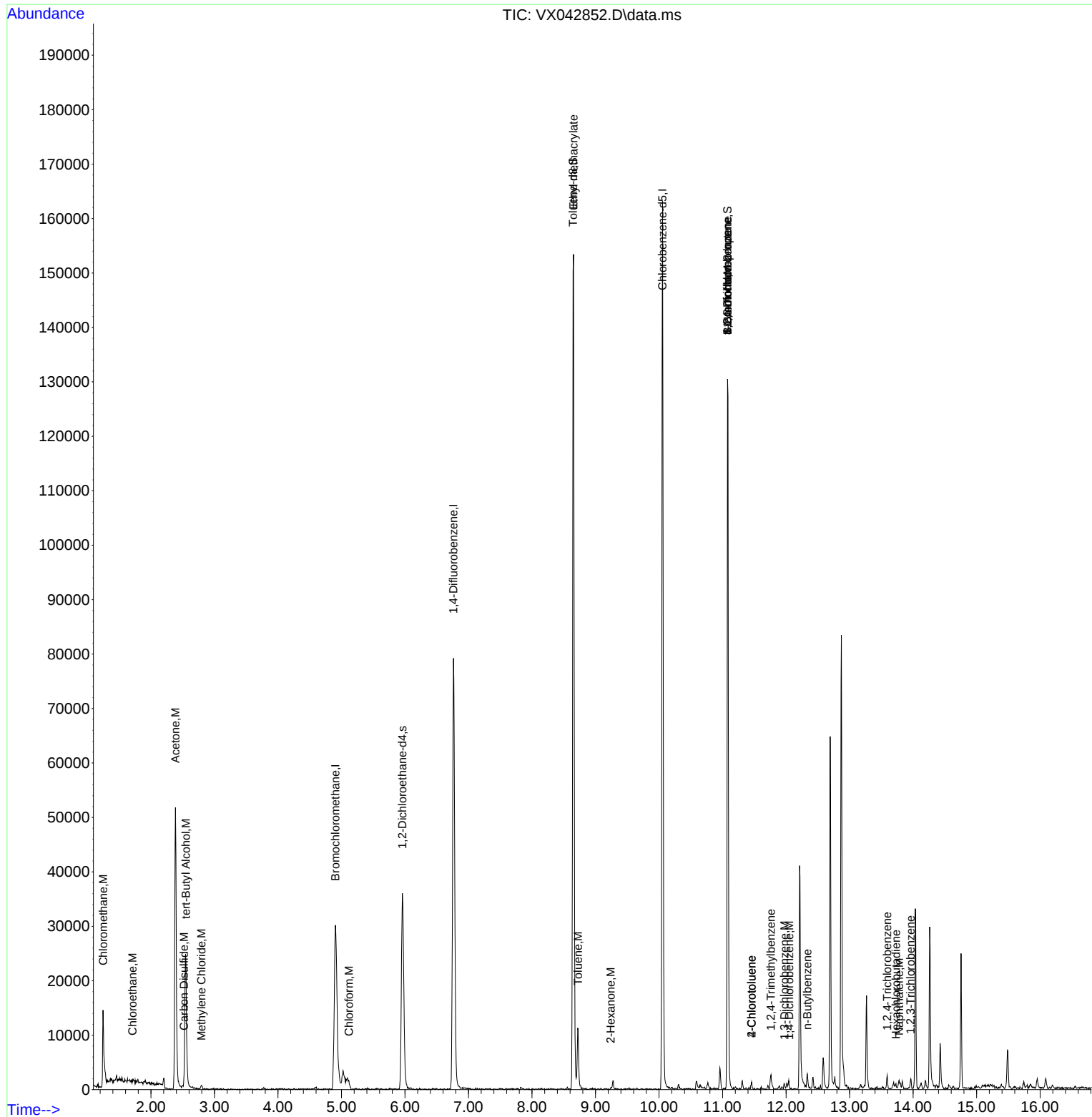
Internal Standards						
1) Bromochloromethane	4.904	128	12746	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	78976	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	75534	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	36785	29.413	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.033%
60) 4-Bromofluorobenzene	11.079	95	35925	28.514	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.033%
63) Toluene-d8	8.647	98	96608	28.997	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.667%
Target Compounds						
					Qvalue	
3) Chloromethane	1.246	50	304	0.481	ug/l #	41
6) Chloroethane	1.709	64	130	0.337	ug/l	99
15) Acetone	2.386	58	18482	105.834	ug/l	98
16) Carbon Disulfide	2.520	76	710	0.437	ug/l #	75
18) Methylene Chloride	2.794	84	387	0.390	ug/l #	88
23) tert-Butyl Alcohol	2.550	59	1453	5.788	ug/l #	100
25) Chloroform	5.117	83	961	0.545	ug/l	92
51) Ethyl methacrylate	8.653	69	307	0.215	ug/l #	84
56) Bromoform	11.079	173	475	0.694	ug/l #	1
59) 2-Hexanone	9.238	43	290	0.274	ug/l #	48
62) Toluene	8.726	91	7338	1.922	ug/l	94
72) 1,2,3-Trichloropropane	11.079	75	19090	15.127	ug/l	37
75) 2-Chlorotoluene	11.457	91	705	0.233	ug/l	84
77) t-1,4-Dichloro-2-butene	11.079	75	19090	43.152	ug/l #	7
78) 4-Chlorotoluene	11.457	91	705	0.203	ug/l	90
80) 1,2,4-Trimethylbenzene	11.762	105	1176	0.331	ug/l	58
83) 1,3-Dichlorobenzene	11.975	146	460	0.241	ug/l	81
84) 1,4-Dichlorobenzene	12.049	146	595	0.310	ug/l	91
85) n-Butylbenzene	12.335	91	975	0.303	ug/l	92
89) 1,2,4-Trichlorobenzene	13.591	180	687	0.596	ug/l #	82
90) Hexachlorobutadiene	13.731	225	164	0.337	ug/l #	38
91) Naphthalene	13.780	128	1251	0.292	ug/l #	91
92) 1,2,3-Trichlorobenzene	13.963	180	430	0.362	ug/l	81

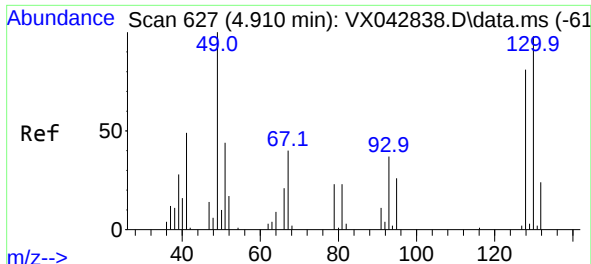
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampleId :

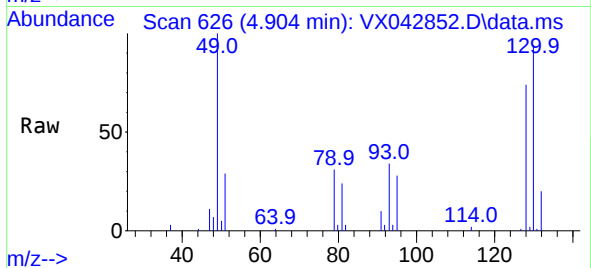
Quant Time: Aug 02 21:36:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080224W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 02 21:32:14 2024
Response via : Initial Calibration



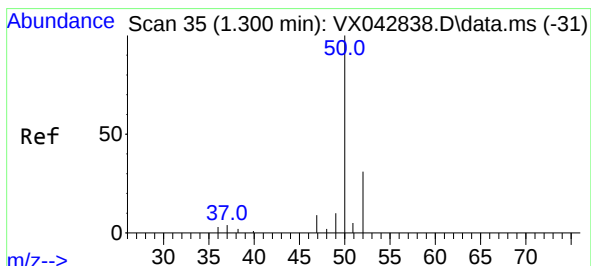
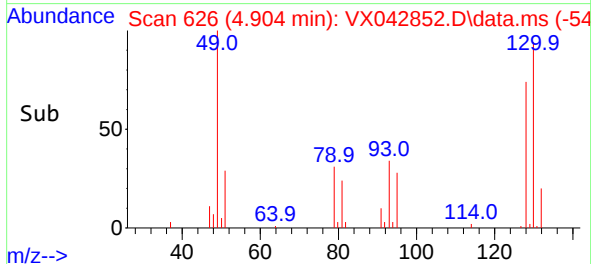
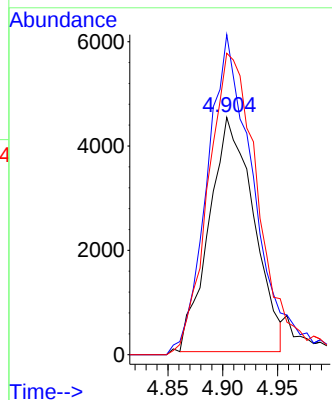


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Instrument :
MSVOA_X
ClientSampleId :

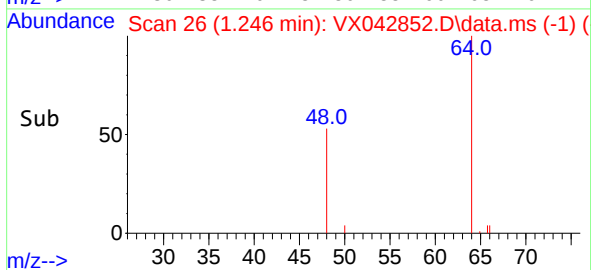
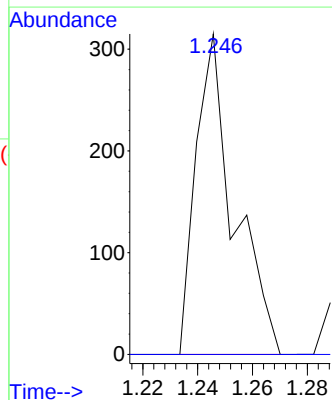
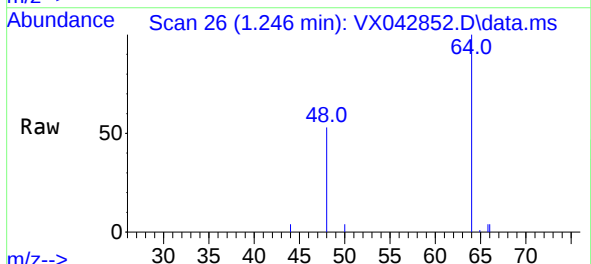


Tgt Ion:128 Resp: 12746
Ion Ratio Lower Upper
128 100
49 142.1 0.0 338.5
130 142.6 0.0 324.5

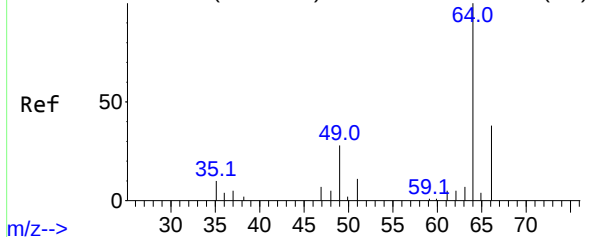


#3
Chloromethane
Concen: 0.481 ug/l
RT: 1.246 min Scan# 26
Delta R.T. -0.055 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Tgt Ion: 50 Resp: 304
Ion Ratio Lower Upper
50 100
52 0.0 26.9 40.3#



Abundance Scan 99 (1.691 min): VX042838.D\data.ms (-95)

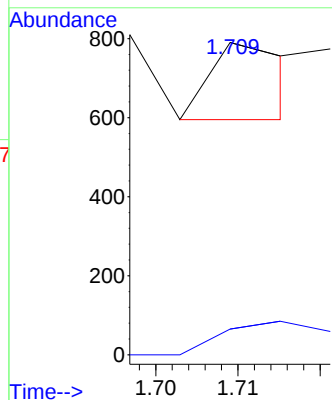
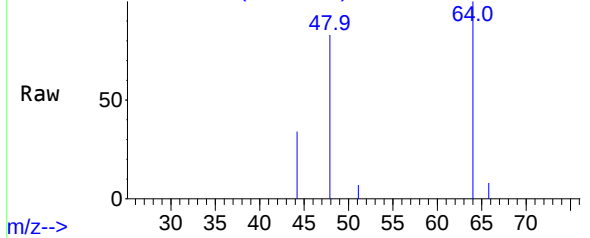


#6
Chloroethane
Concen: 0.337 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.018 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

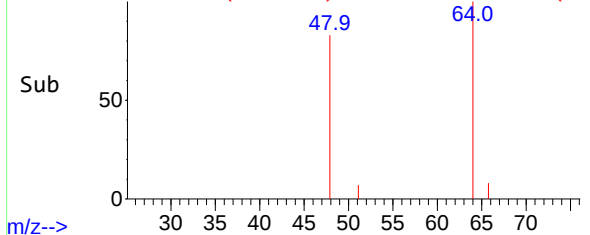
Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion: 64 Resp: 130
Ion Ratio Lower Upper
64 100
66 33.3 26.4 39.6

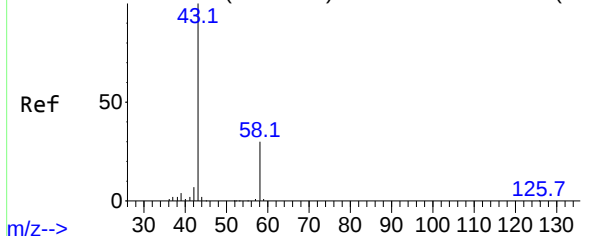
Abundance Scan 102 (1.709 min): VX042852.D\data.ms



Abundance Scan 102 (1.709 min): VX042852.D\data.ms (-17)



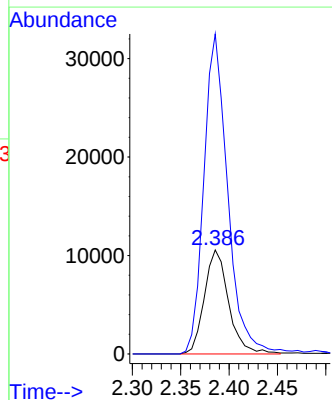
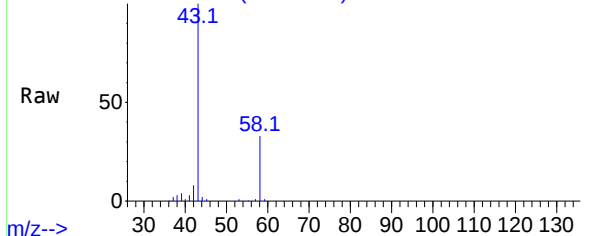
Abundance Scan 213 (2.386 min): VX042838.D\data.ms (-20)



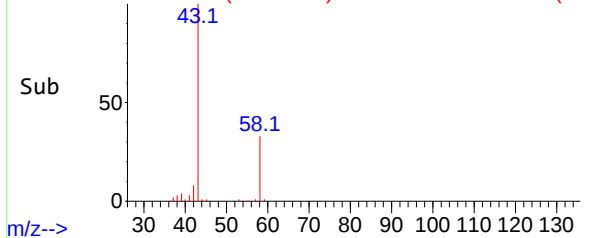
#15
Acetone
Concen: 105.834 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

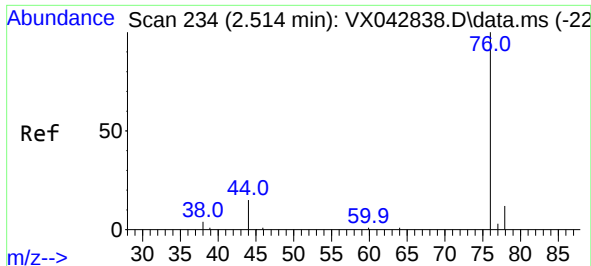
Tgt Ion: 58 Resp: 18482
Ion Ratio Lower Upper
58 100
43 307.6 243.4 365.2

Abundance Scan 213 (2.386 min): VX042852.D\data.ms



Abundance Scan 213 (2.386 min): VX042852.D\data.ms (-13)

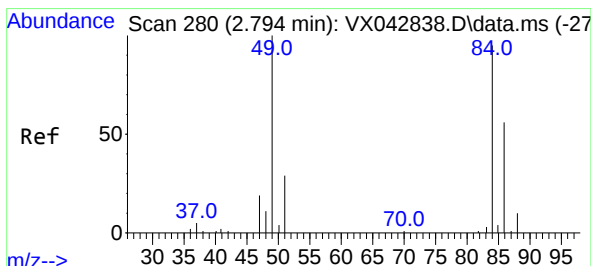
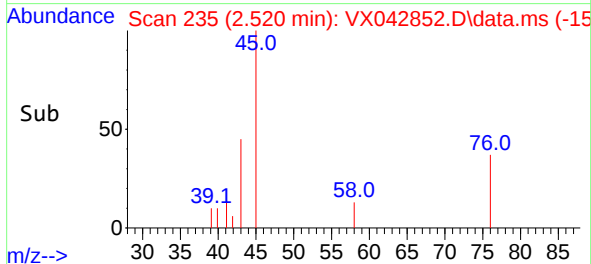
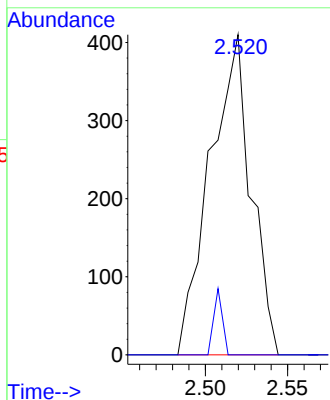
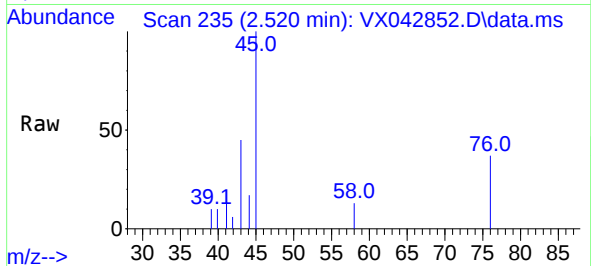




#16
Carbon Disulfide
Concen: 0.437 ug/l
RT: 2.520 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

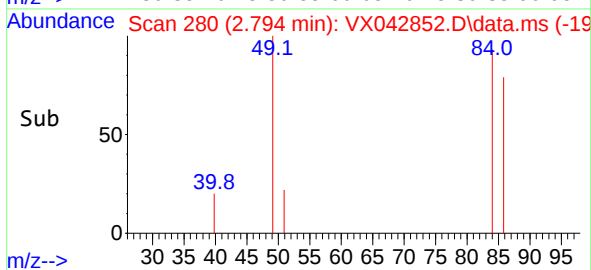
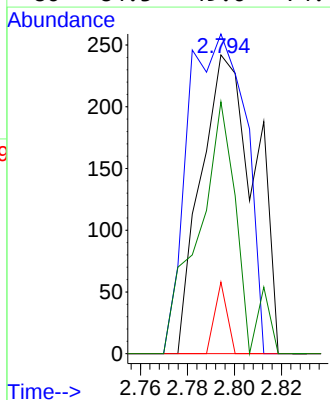
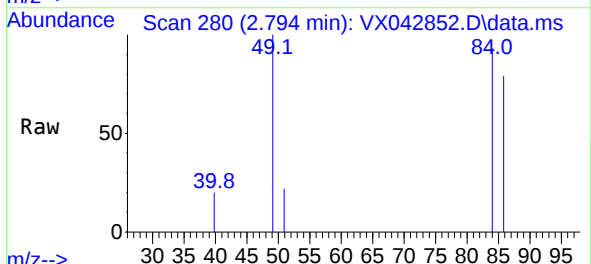
Instrument :
MSVOA_X
ClientSampleId :

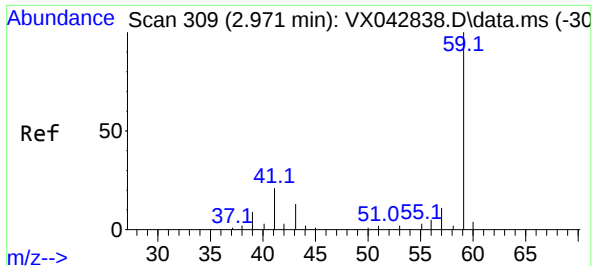
Tgt Ion: 76 Resp: 710
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methylene Chloride
Concen: 0.390 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.000 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Tgt Ion: 84 Resp: 387
Ion Ratio Lower Upper
84 100
49 107.0 85.3 127.9
51 24.0 28.5 42.7#
86 84.3 49.6 74.4#





#23

tert-Butyl Alcohol

Concen: 5.788 ug/l

RT: 2.550 min Scan# 24

Delta R.T. -0.421 min

Lab File: VX042852.D

Acq: 02 Aug 2024 19:18

Instrument :

MSVOA_X

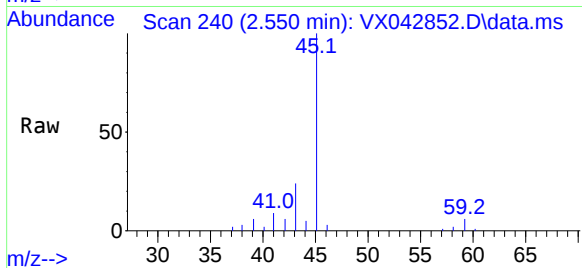
ClientSampleId :

Tgt Ion: 59 Resp: 1453

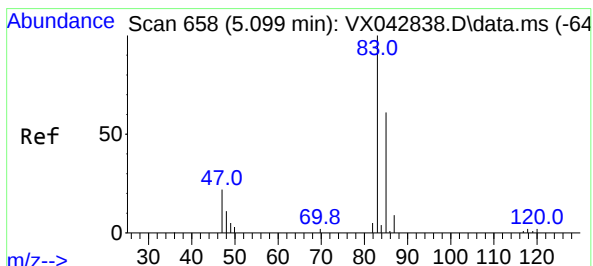
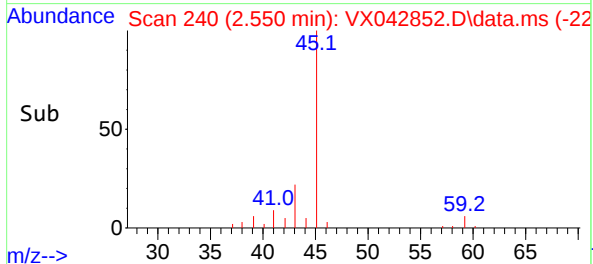
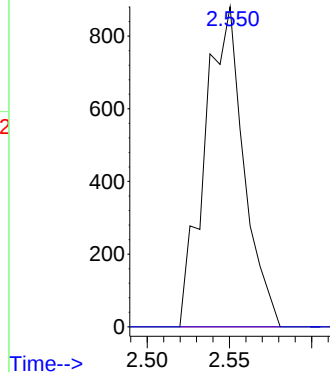
Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



Abundance



#25

Chloroform

Concen: 0.545 ug/l

RT: 5.117 min Scan# 661

Delta R.T. 0.018 min

Lab File: VX042852.D

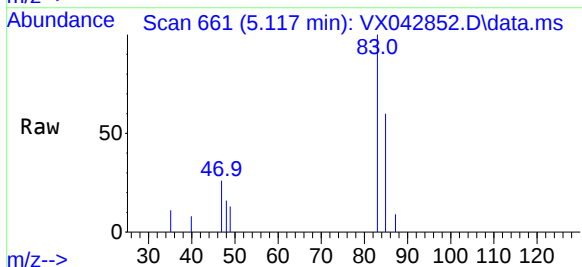
Acq: 02 Aug 2024 19:18

Tgt Ion: 83 Resp: 961

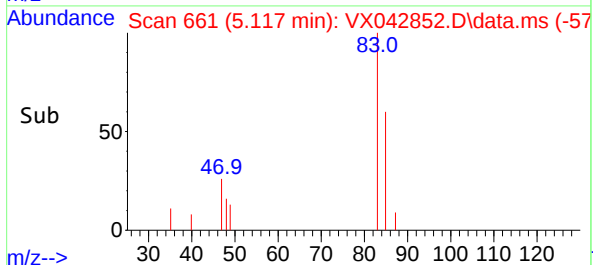
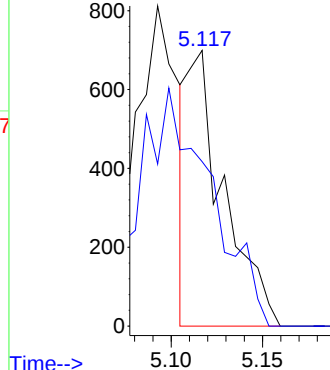
Ion Ratio Lower Upper

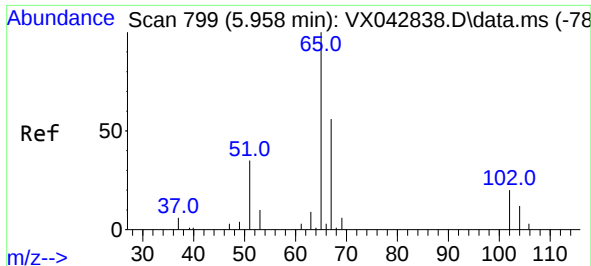
83 100

85 59.7 52.7 79.1



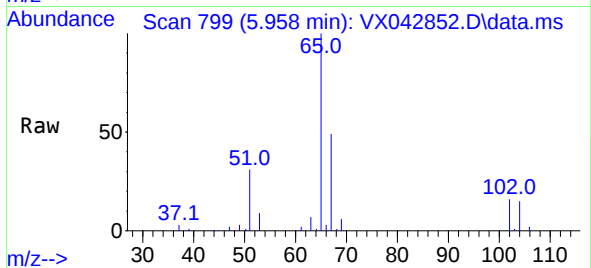
Abundance



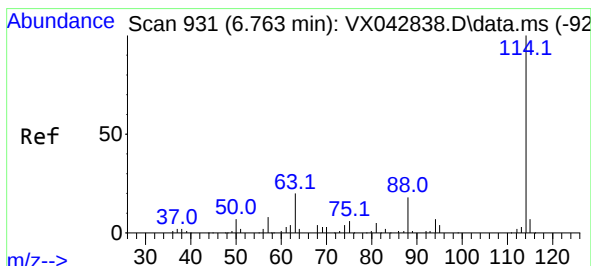
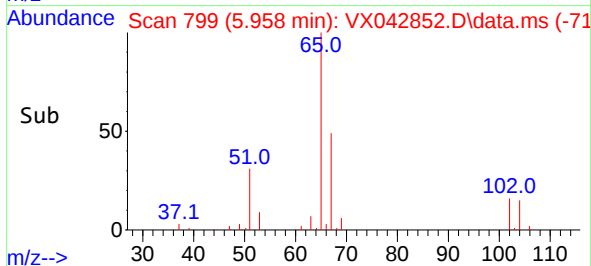
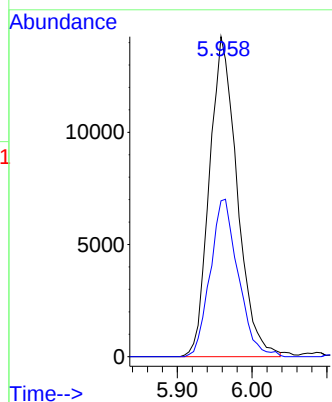


#27
1,2-Dichloroethane-d4
Concen: 29.413 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Instrument :
MSVOA_X
ClientSampleId :

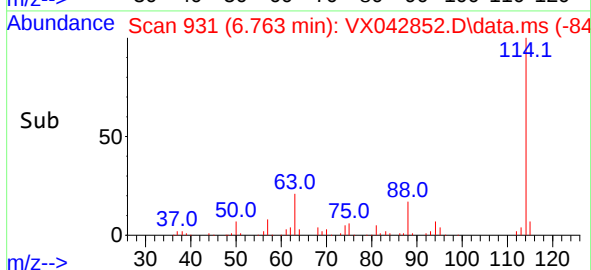
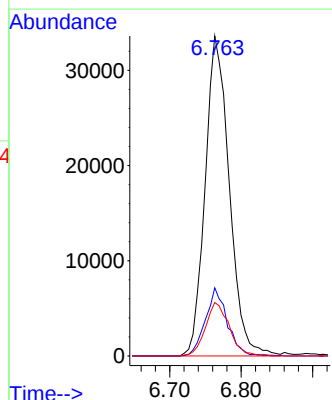
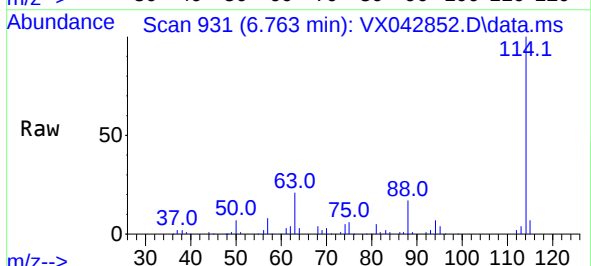


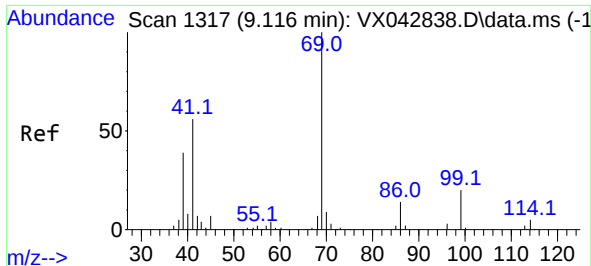
Tgt Ion: 65 Resp: 36785
Ion Ratio Lower Upper
65 100
67 49.3 43.4 65.0



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Tgt Ion: 114 Resp: 78976
Ion Ratio Lower Upper
114 100
63 18.9 14.6 21.8
88 16.4 11.8 17.8

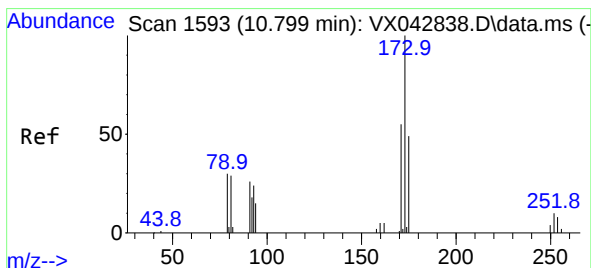
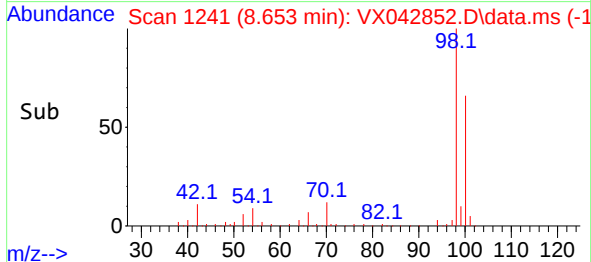
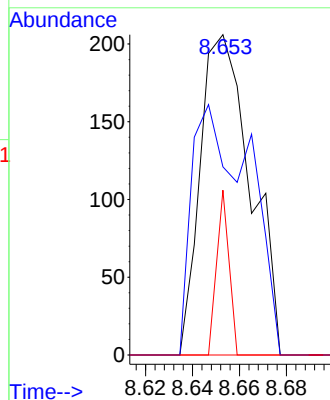
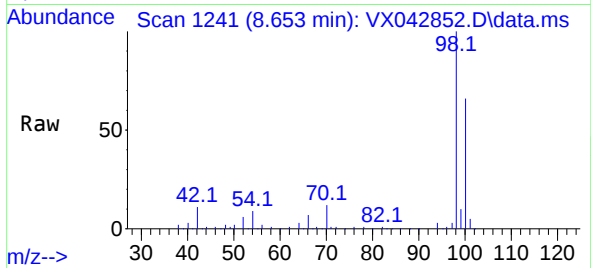




#51
Ethyl methacrylate
Concen: 0.215 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.463 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

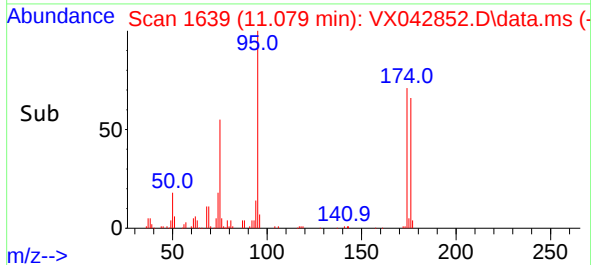
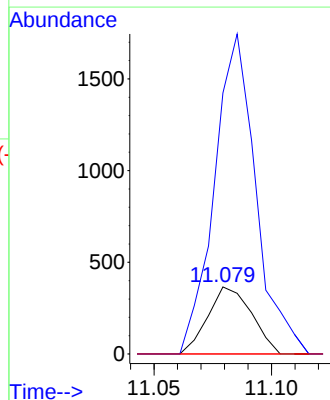
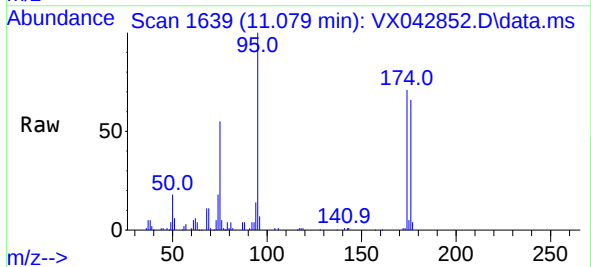
Instrument :
MSVOA_X
ClientSampleId :

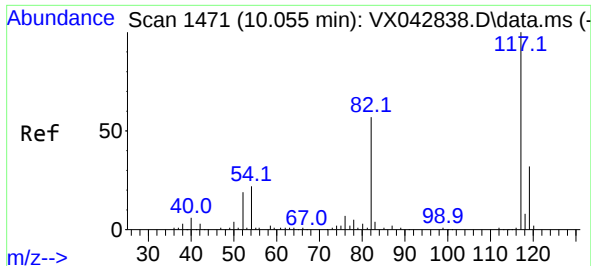
Tgt Ion: 69 Resp: 307
Ion Ratio Lower Upper
69 100
41 58.7 31.6 94.7
39 51.5 15.3 45.8#



#56
Bromoform
Concen: 0.694 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.281 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Tgt Ion:173 Resp: 475
Ion Ratio Lower Upper
173 100
175 452.4 39.3 58.9#
254 0.0 9.6 14.4#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX042852.D

Acq: 02 Aug 2024 19:18

Instrument :

MSVOA_X

ClientSampleId :

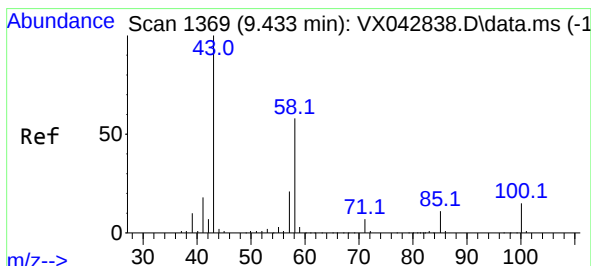
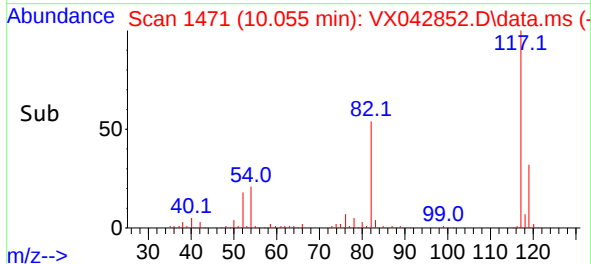
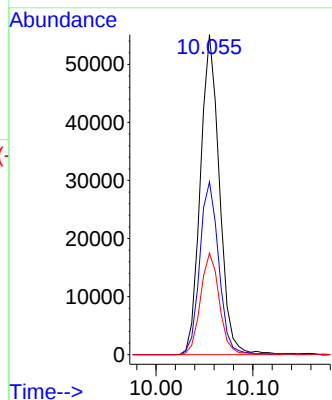
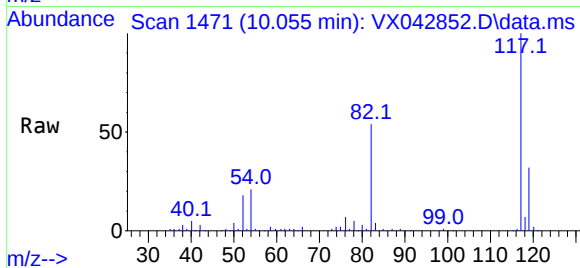
Tgt Ion:117 Resp: 75534

Ion Ratio Lower Upper

117 100

82 54.0 41.1 61.7

119 31.5 26.1 39.1



#59

2-Hexanone

Concen: 0.274 ug/l

RT: 9.238 min Scan# 1337

Delta R.T. -0.195 min

Lab File: VX042852.D

Acq: 02 Aug 2024 19:18

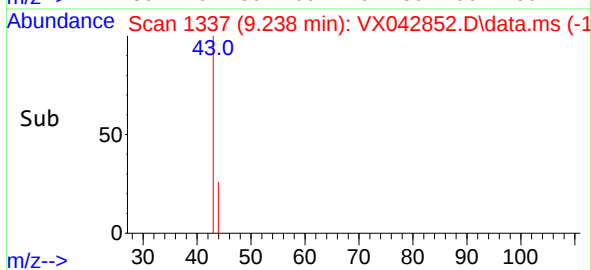
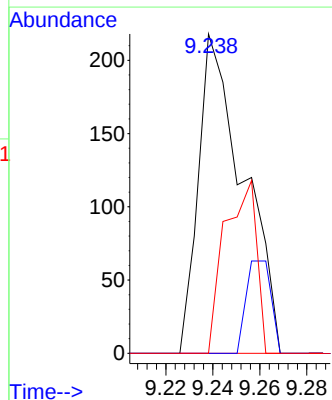
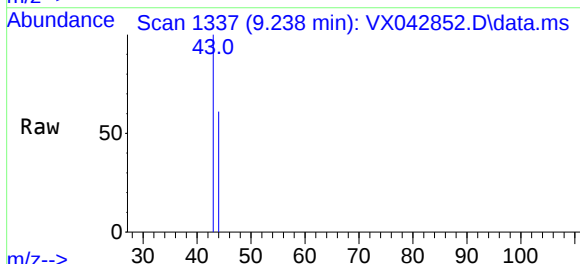
Tgt Ion: 43 Resp: 290

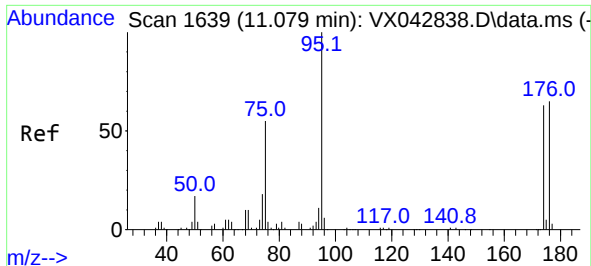
Ion Ratio Lower Upper

43 100

58 15.9 46.0 69.0#

57 37.9 15.8 23.6#

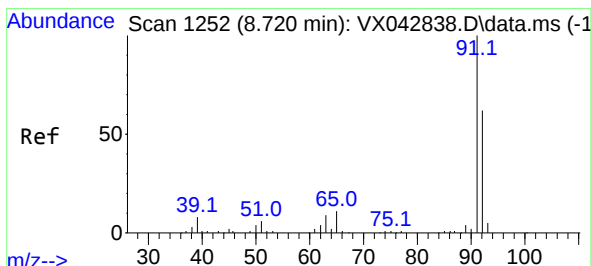
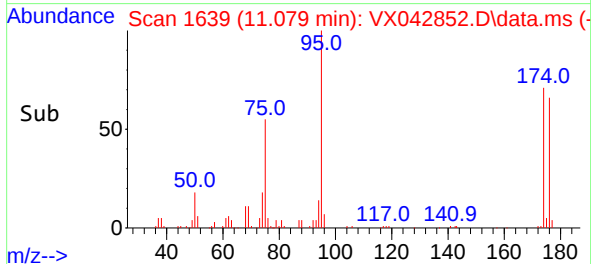
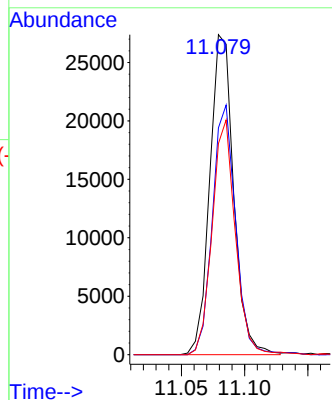
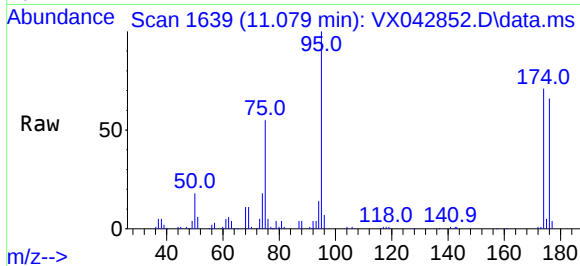




#60
4-Bromofluorobenzene
Concen: 28.514 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

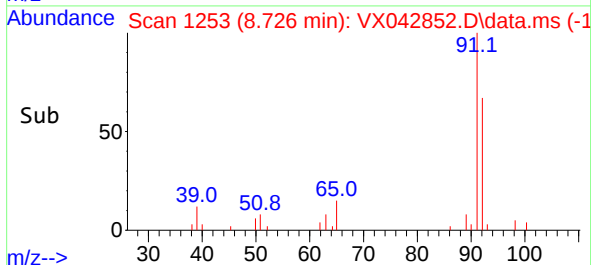
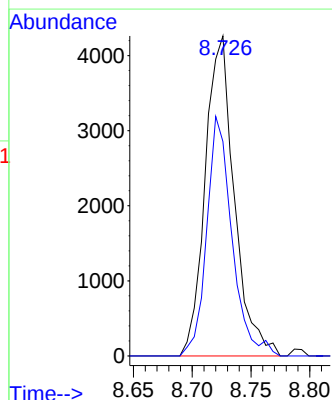
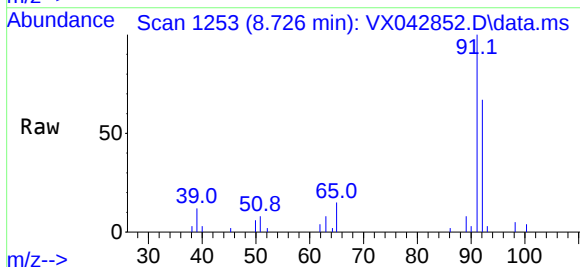
Instrument :
MSVOA_X
ClientSampleId :

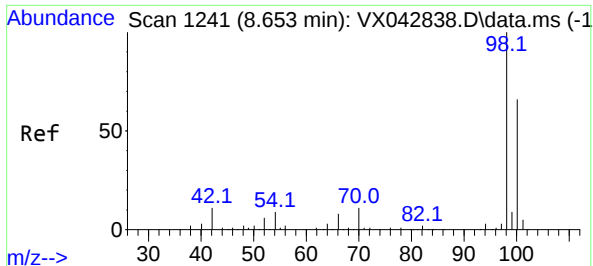
Tgt Ion: 95 Resp: 35925
Ion Ratio Lower Upper
95 100
174 76.1 78.9 118.3#
176 71.2 77.1 115.7#



#62
Toluene
Concen: 1.922 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Tgt Ion: 91 Resp: 7338
Ion Ratio Lower Upper
91 100
92 63.8 47.4 71.2

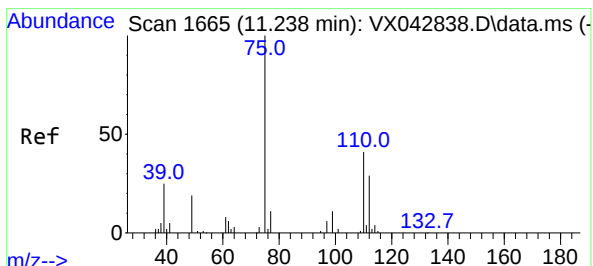
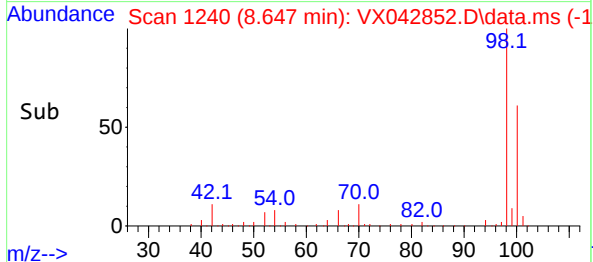
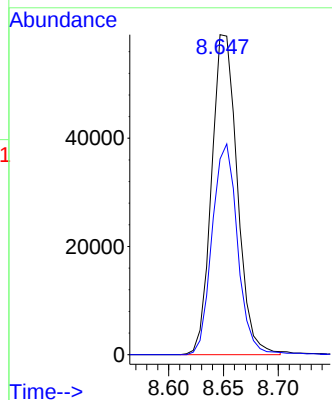
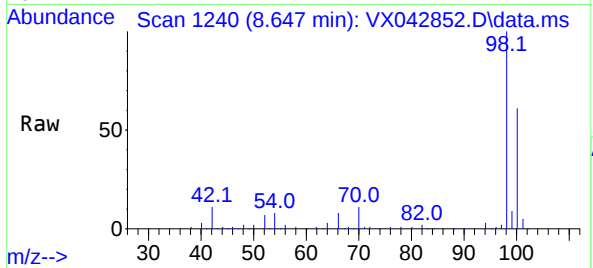




#63
Toluene-d8
Concen: 28.997 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

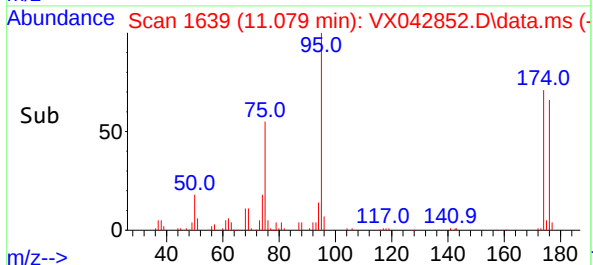
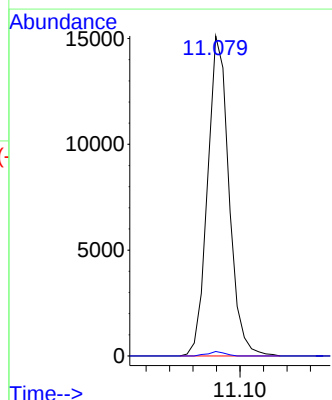
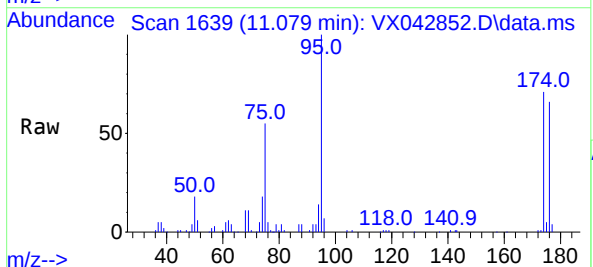
Instrument :
MSVOA_X
ClientSampleId :

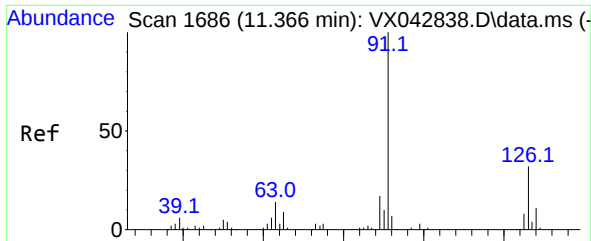
Tgt Ion: 98 Resp: 96608
Ion Ratio Lower Upper
98 100
100 65.1 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 15.127 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

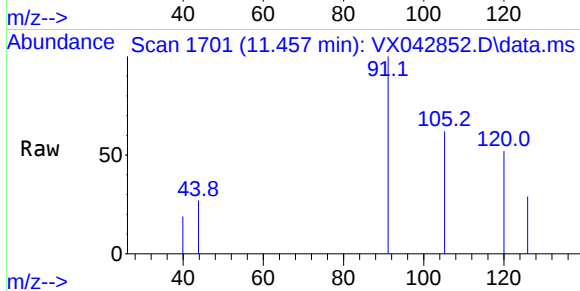
Tgt Ion: 75 Resp: 19090
Ion Ratio Lower Upper
75 100
77 1.1 0.0 79.6



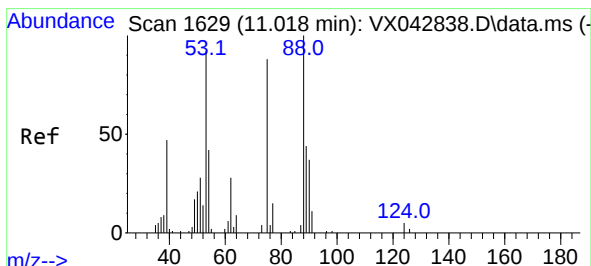
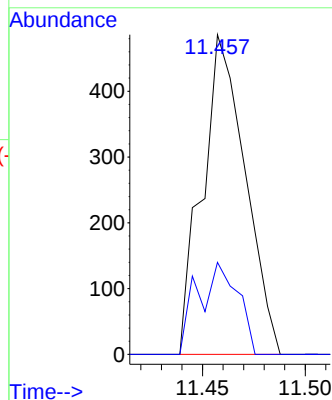
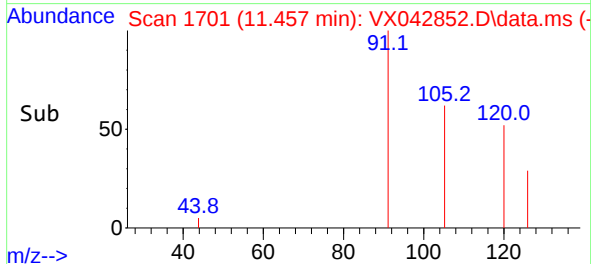


#75
2-Chlorotoluene
Concen: 0.233 ug/l
RT: 11.457 min Scan# 11
Delta R.T. 0.092 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Instrument :
MSVOA_X
ClientSampleId :

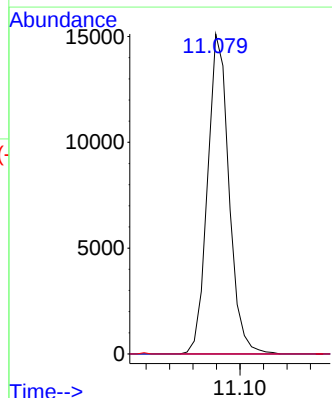
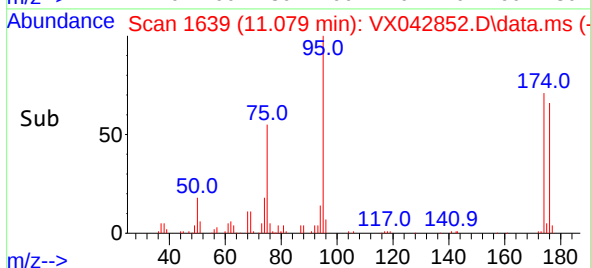
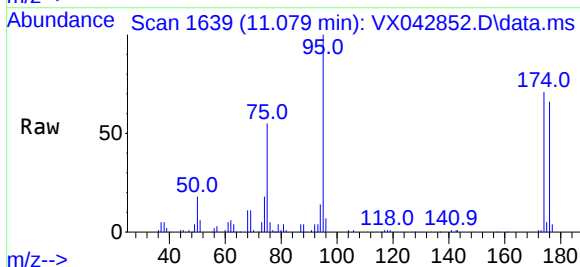


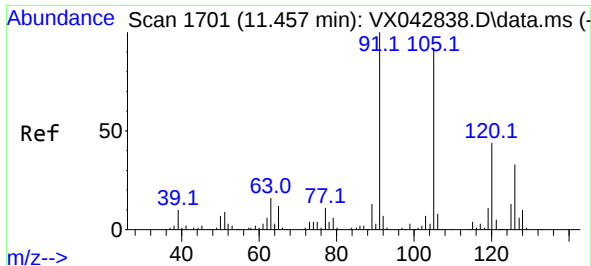
Tgt Ion: 91 Resp: 705
Ion Ratio Lower Upper
91 100
126 26.8 0.0 72.6



#77
t-1,4-Dichloro-2-butene
Concen: 43.152 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

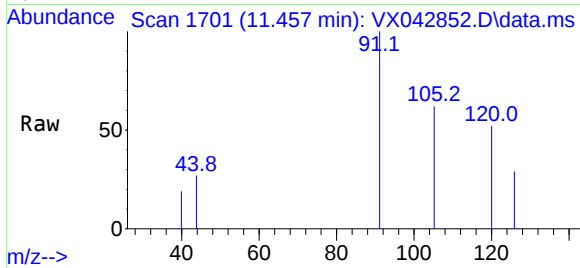
Tgt Ion: 75 Resp: 19090
Ion Ratio Lower Upper
75 100
53 0.0 53.4 160.2#
89 0.0 22.5 67.5#



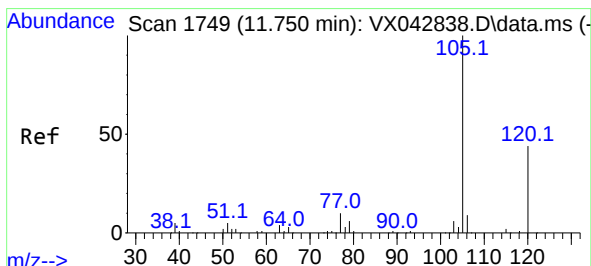
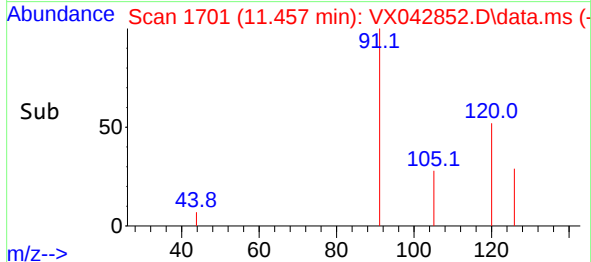
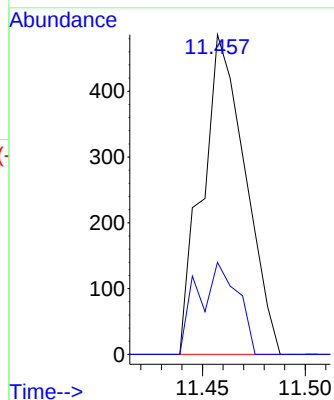


#78
4-Chlorotoluene
Concen: 0.203 ug/l
RT: 11.457 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Instrument :
MSVOA_X
ClientSampleId :

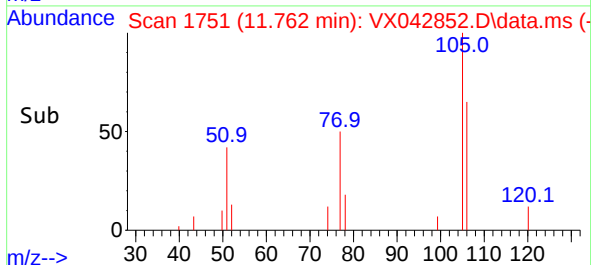
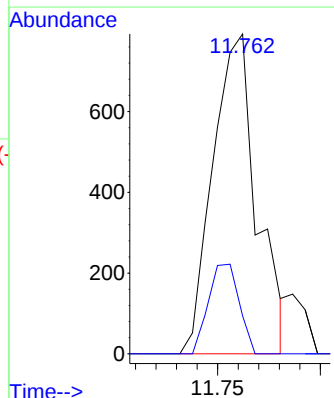
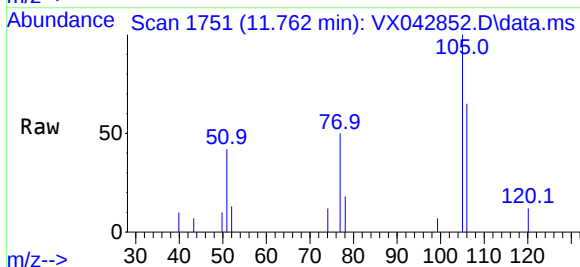


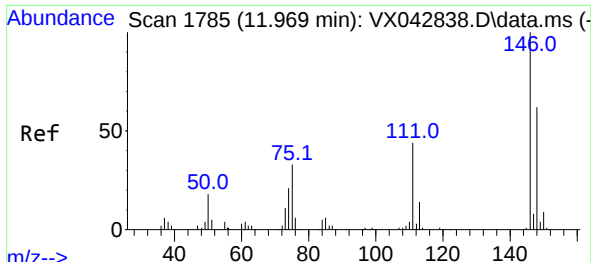
Tgt Ion: 91 Resp: 705
Ion Ratio Lower Upper
91 100
126 26.8 0.0 64.8



#80
1,2,4-Trimethylbenzene
Concen: 0.331 ug/l
RT: 11.762 min Scan# 1751
Delta R.T. 0.012 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

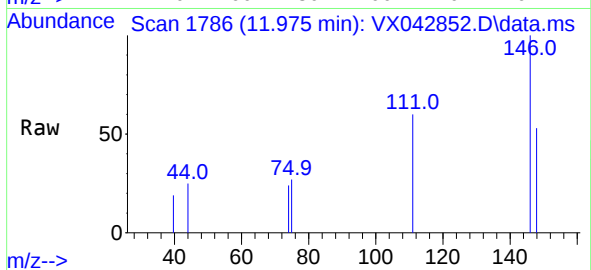
Tgt Ion: 105 Resp: 1176
Ion Ratio Lower Upper
105 100
120 19.6 0.0 96.2



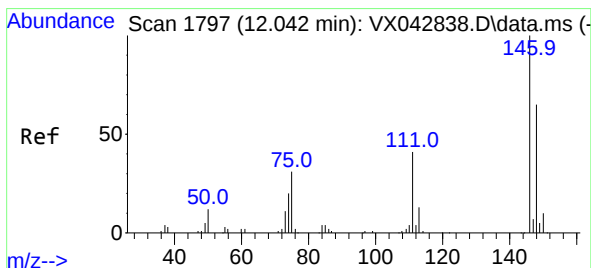
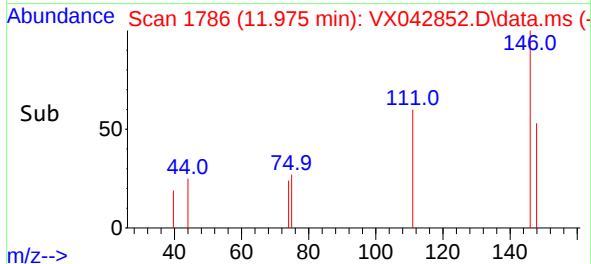
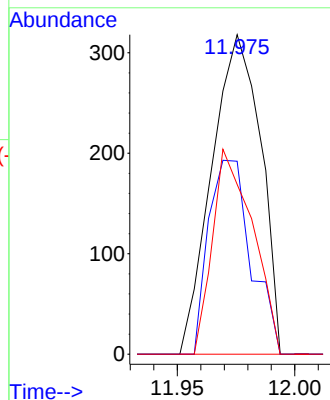


#83
1,3-Dichlorobenzene
Concen: 0.241 ug/l
RT: 11.975 min Scan# 1786
Delta R.T. 0.006 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Instrument :
MSVOA_X
ClientSampleId :

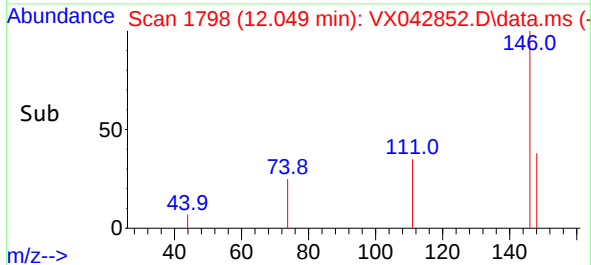
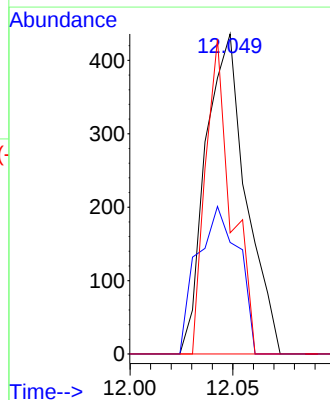
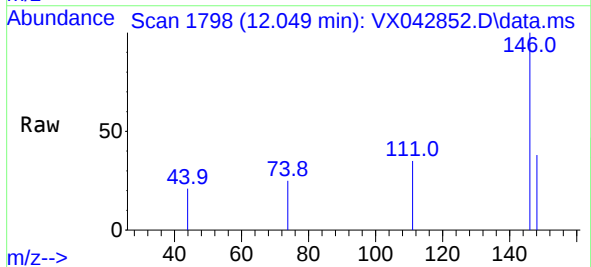


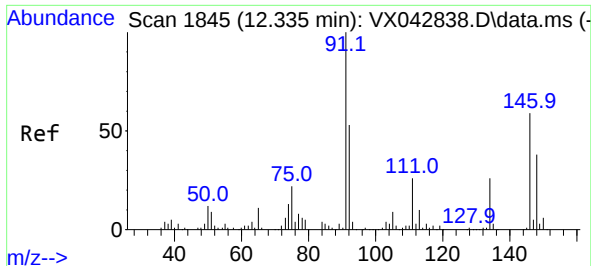
Tgt Ion:146 Resp: 460
Ion Ratio Lower Upper
146 100
111 52.8 18.0 54.0
148 52.8 31.9 95.7



#84
1,4-Dichlorobenzene
Concen: 0.310 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.006 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

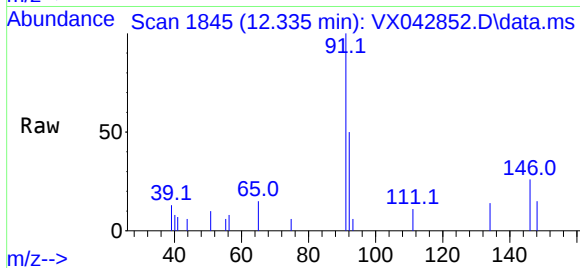
Tgt Ion:146 Resp: 595
Ion Ratio Lower Upper
146 100
111 47.4 17.4 52.3
148 63.4 32.3 96.9





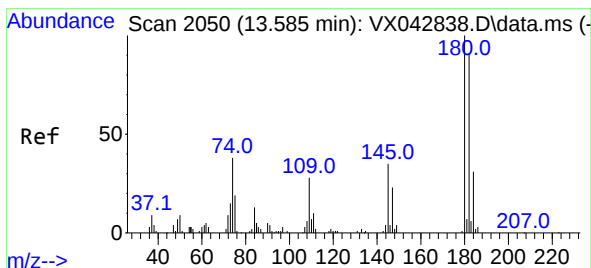
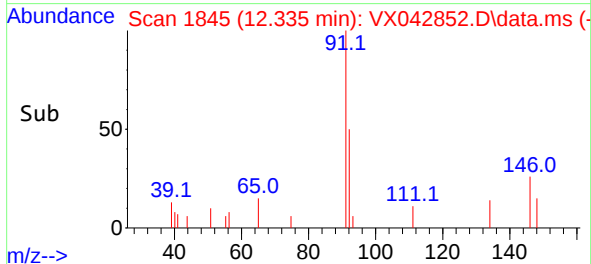
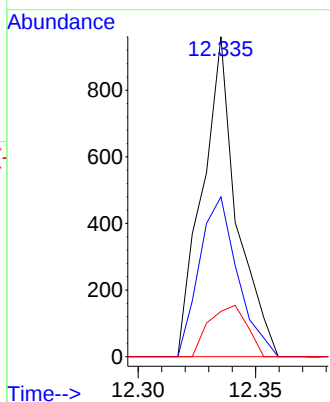
#85
n-Butylbenzene
Concen: 0.303 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion: 91 Resp: 975

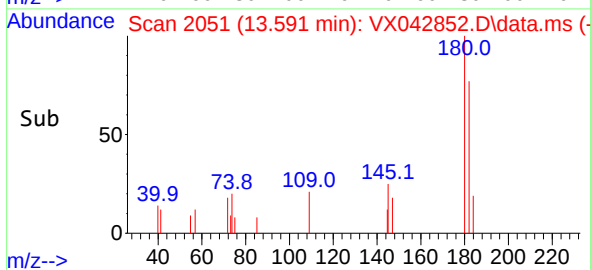
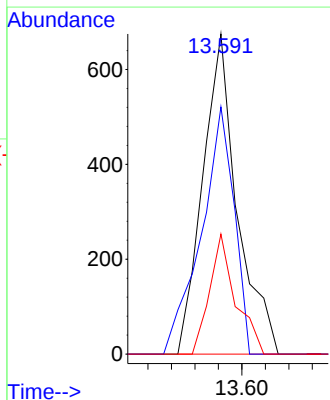
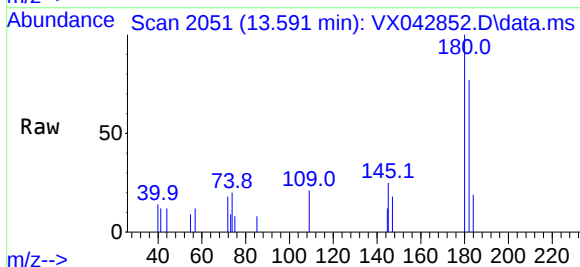
Ion	Ratio	Lower	Upper
91	100		
92	55.8	0.0	109.8
134	17.7	0.0	58.4

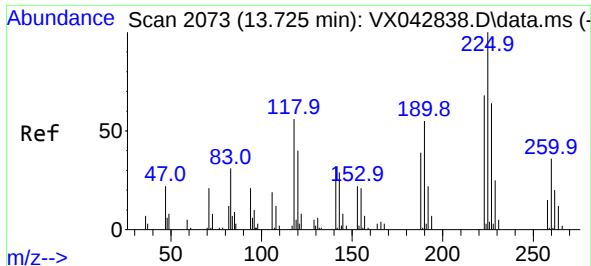


#89
1,2,4-Trichlorobenzene
Concen: 0.596 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Tgt Ion: 180 Resp: 687

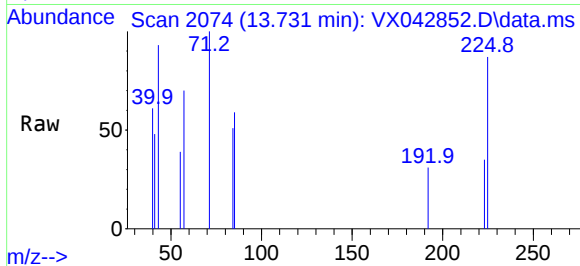
Ion	Ratio	Lower	Upper
180	100		
182	73.7	76.9	115.3#
145	28.2	22.8	34.2



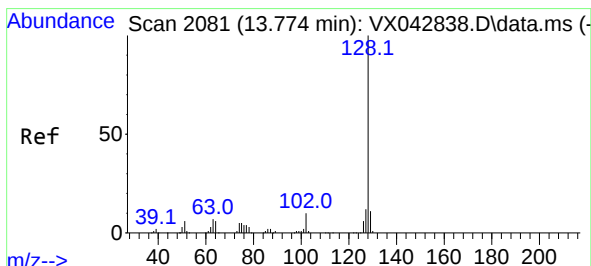
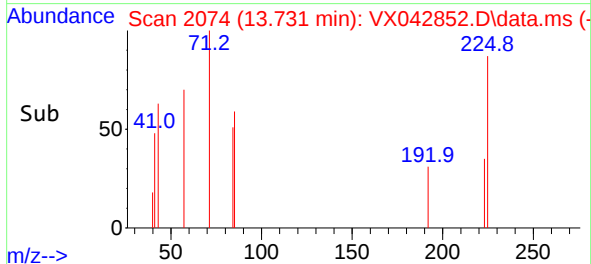
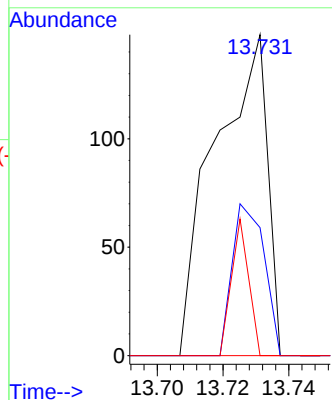


#90
Hexachlorobutadiene
Concen: 0.337 ug/l
RT: 13.731 min Scan# 2074
Delta R.T. 0.006 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Instrument :
MSVOA_X
ClientSampleId :

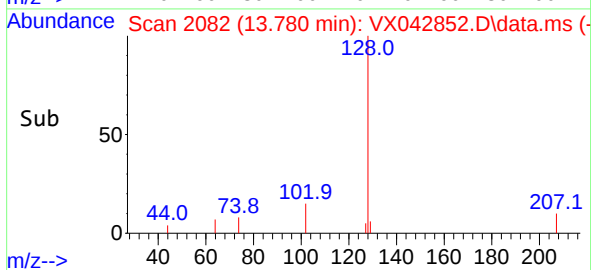
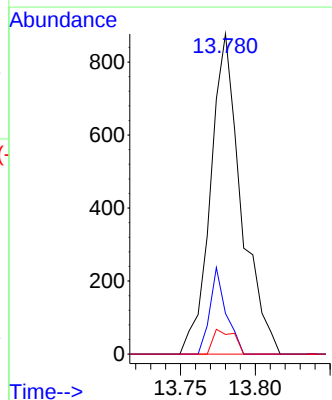
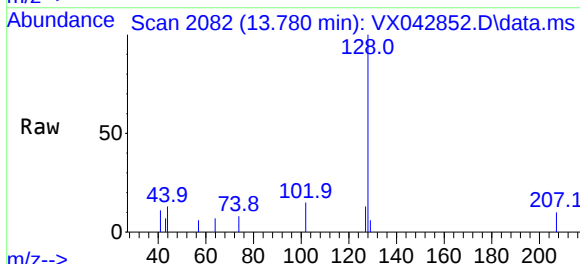


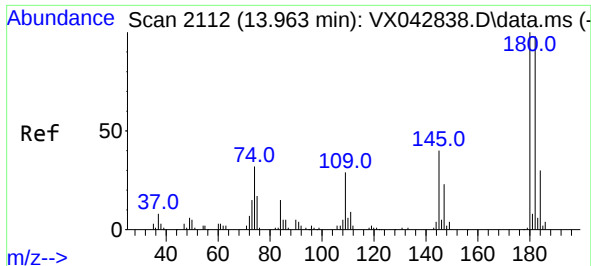
Tgt Ion:225 Resp: 164
Ion Ratio Lower Upper
225 100
223 28.7 0.0 120.8
227 0.0 0.0 126.6



#91
Naphthalene
Concen: 0.292 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

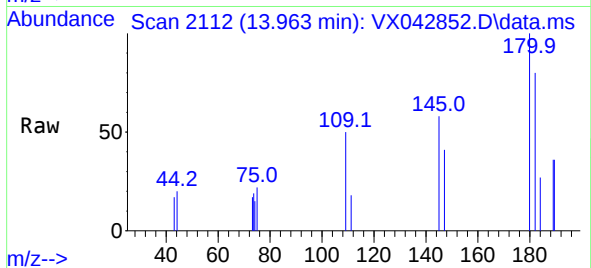
Tgt Ion:128 Resp: 1251
Ion Ratio Lower Upper
128 100
127 14.3 10.4 15.6
129 5.2 8.7 13.1#





#92
1,2,3-Trichlorobenzene
Concen: 0.362 ug/l
RT: 13.963 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX042852.D
Acq: 02 Aug 2024 19:18

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:	180	Resp:	430
Ion	Ratio	Lower	Upper
180	100		
182	106.0	0.0	187.8
145	50.0	0.0	58.4

