

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060724\
 Data File : VX041785.D
 Acq On : 07 Jun 2024 13:04
 Operator : JC/MD
 Sample : P2751-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 08 04:05:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

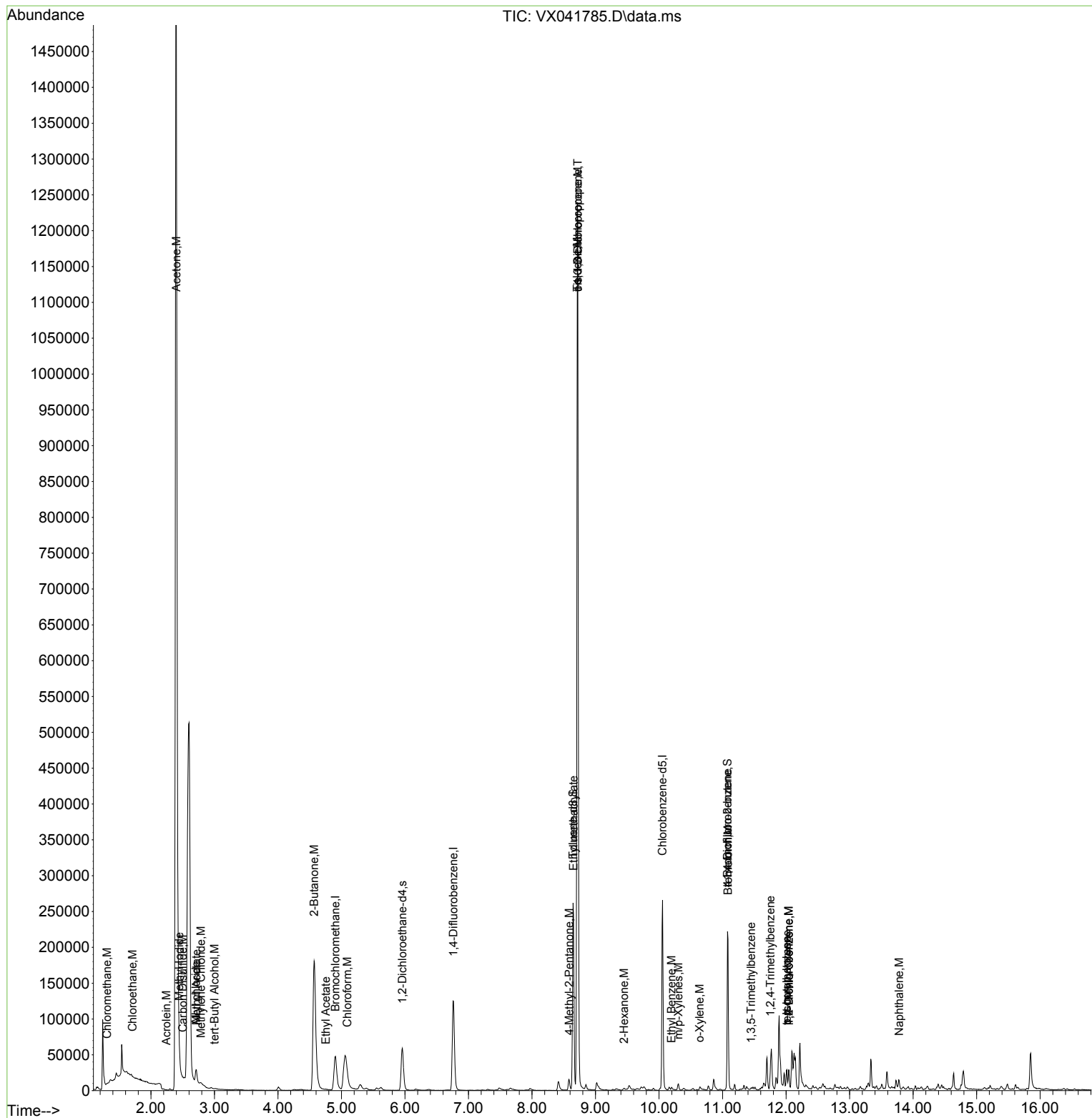
Internal Standards						
1) Bromochloromethane	4.904	128	23394	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	134423	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	121734	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	58298	31.645	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.467%			
60) 4-Bromofluorobenzene	11.079	95	56520	29.742	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.133%			
63) Toluene-d8	8.647	98	156658	30.021	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.067%			
Target Compounds						
					Qvalue	
3) Chloromethane	1.307	50	280	0.209	ug/l #	42
6) Chloroethane	1.709	64	8367	11.731	ug/l #	47
11) Methyl Iodide	2.447	142	785	0.551	ug/l #	88
12) Methyl Acetate	2.715	43	23405	12.984	ug/l	99
13) Acrolein	2.239	56	259	1.180	ug/l #	59
15) Acetone	2.398	58	587233	2765.445	ug/l	93
16) Carbon Disulfide	2.502	76	2685	0.994	ug/l #	89
17) Allyl chloride	2.709	41	764	0.360	ug/l #	45
18) Methylene Chloride	2.788	84	875	0.615	ug/l #	74
23) tert-Butyl Alcohol	3.001	59	320	0.951	ug/l #	100
25) Chloroform	5.093	83	3391	1.271	ug/l	99
30) 2-Butanone	4.568	43	358696	303.911	ug/l	99
43) Ethyl Acetate	4.751	43	850	0.373	ug/l #	83
48) t-1,3-Dichloropropene	8.720	75	5633	2.860	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	5633	2.640	ug/l #	1
51) Ethyl methacrylate	8.653	69	468	0.200	ug/l	80
56) Bromoform	11.085	173	497	0.375	ug/l #	1
58) 4-Methyl-2-Pentanone	8.586	43	10226	4.597	ug/l	99
59) 2-Hexanone	9.451	43	1532	0.865	ug/l #	89
62) Toluene	8.714	91	796822	131.547	ug/l	100
66) Ethyl Benzene	10.195	91	2103	0.313	ug/l #	87
67) m/p-Xylenes	10.305	106	2348	0.893	ug/l	99
68) o-Xylene	10.640	106	1090	0.412	ug/l	92
76) 1,3,5-Trimethylbenzene	11.451	105	1403	0.246	ug/l	100
77) t-1,4-Dichloro-2-butene	11.079	75	28257	43.376	ug/l #	1
79) tert-butylbenzene	12.012	119	10254	1.687	ug/l	69
80) 1,2,4-Trimethylbenzene	11.756	105	10280	1.796	ug/l	68
82) p-Isopropyltoluene	12.012	119	10254	1.649	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	1479	0.415	ug/l	93
87) 1,2-Dichlorobenzene	12.042	146	1479	0.411	ug/l	95
91) Naphthalene	13.780	128	7565	1.047	ug/l	98

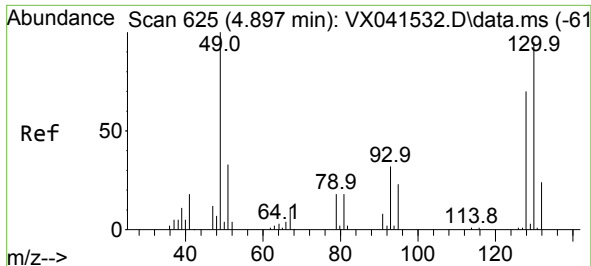
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060724\
Data File : VX041785.D
Acq On : 07 Jun 2024 13:04
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Sample : P2751-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

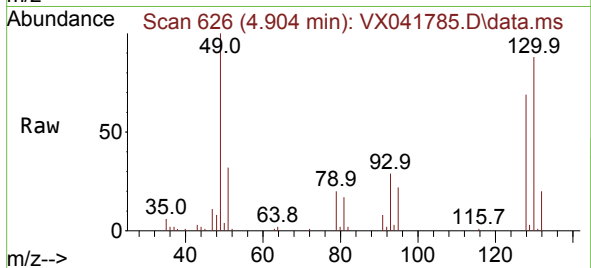
Quant Time: Jun 08 04:05:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 16 05:13:13 2024
Response via : Initial Calibration



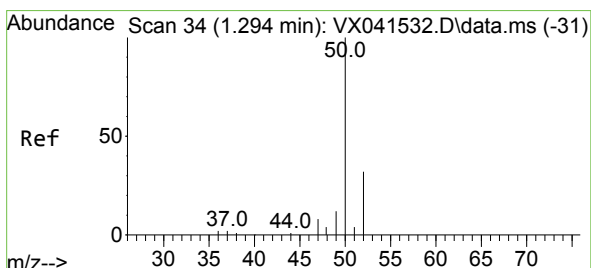
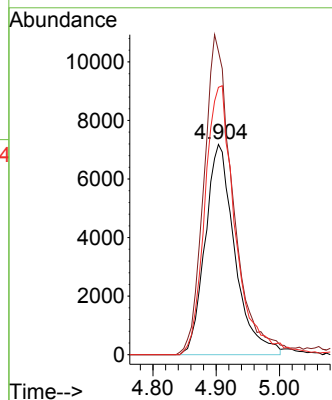
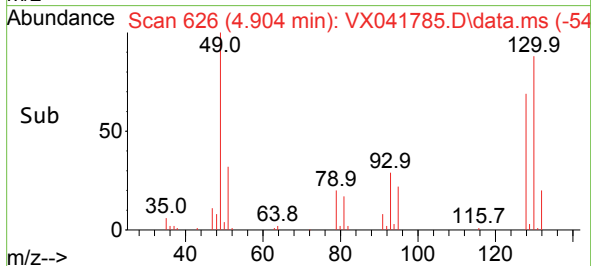


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.007 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Instrument :
MSVOA_X
ClientSampleId :

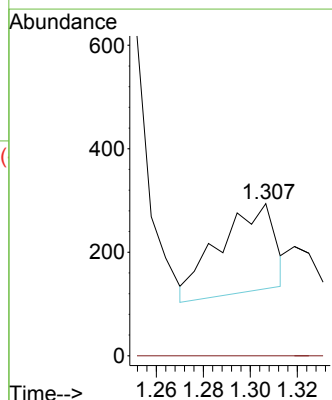
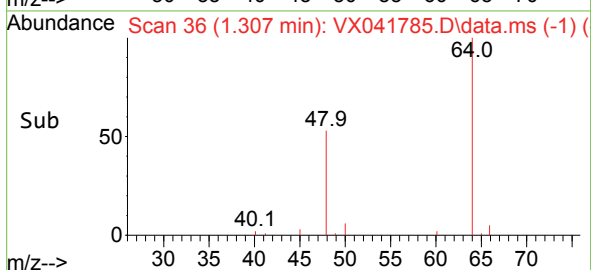
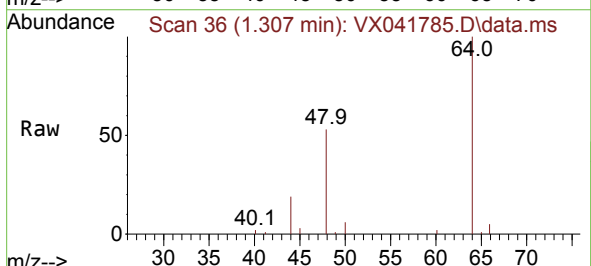


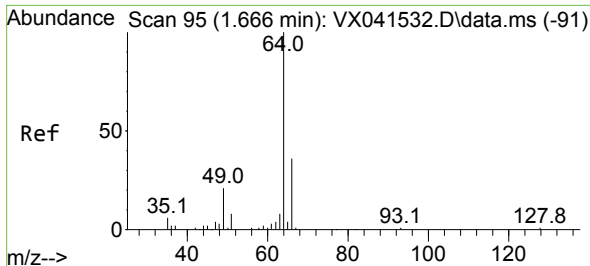
Tgt Ion:128 Resp: 23394
Ion Ratio Lower Upper
128 100
49 149.4 0.0 361.5
130 128.3 0.0 324.3



#3
Chloromethane
Concen: 0.209 ug/l
RT: 1.307 min Scan# 36
Delta R.T. 0.012 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Tgt Ion: 50 Resp: 280
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

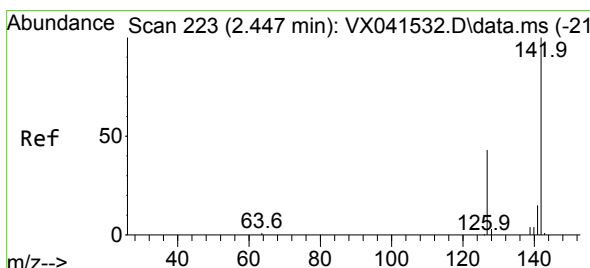
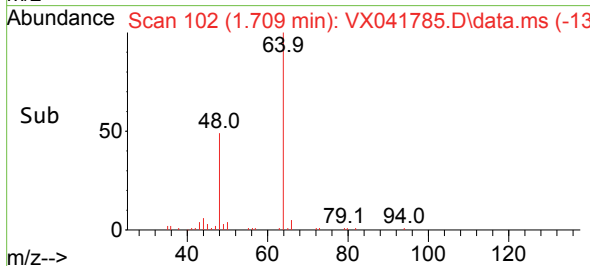
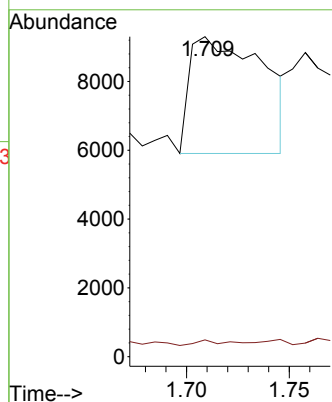
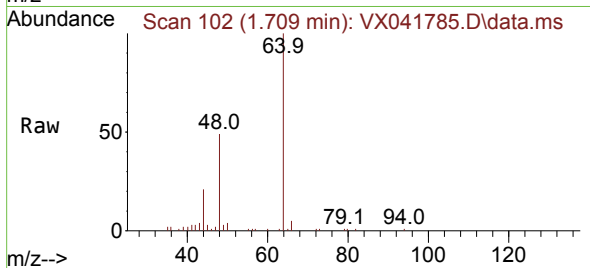




#6
Chloroethane
Concen: 11.731 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.043 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

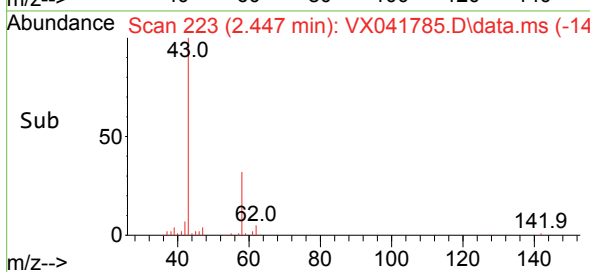
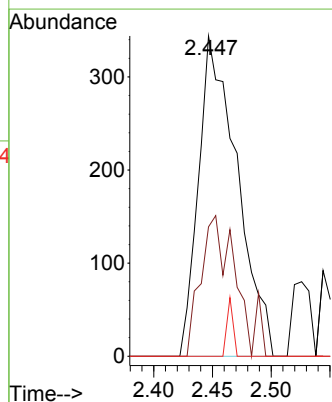
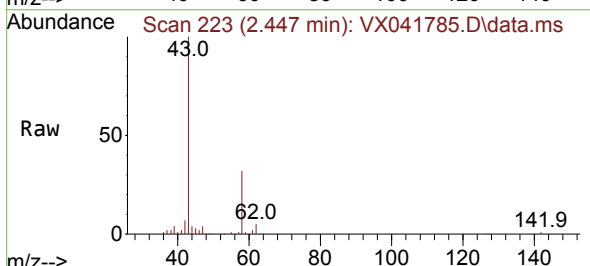
Instrument :
MSVOA_X
ClientSampleId :

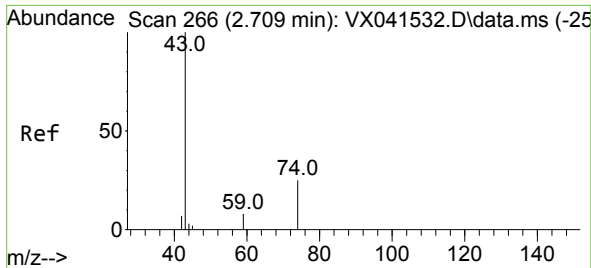
Tgt Ion: 64 Resp: 8367
Ion Ratio Lower Upper
64 100
66 4.9 28.6 42.8#



#11
Methyl Iodide
Concen: 0.551 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Tgt Ion: 142 Resp: 785
Ion Ratio Lower Upper
142 100
127 40.4 21.4 64.2
141 0.0 7.6 22.8#

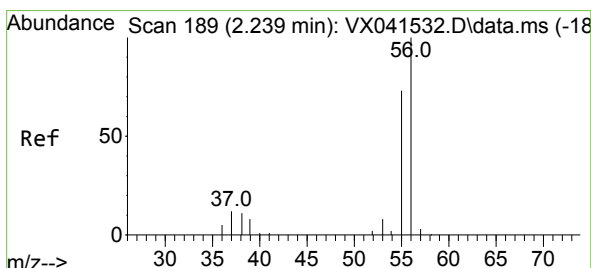
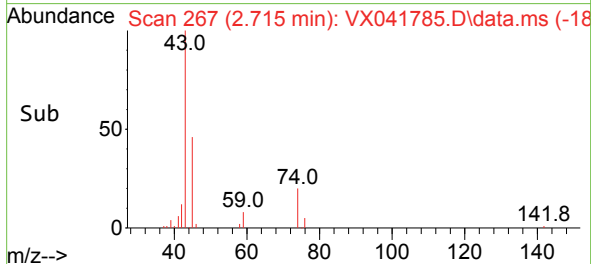
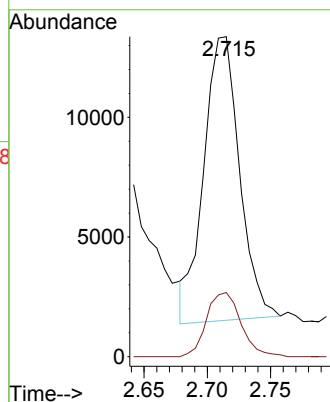
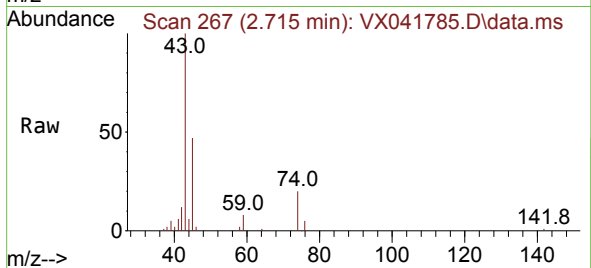




#12
Methyl Acetate
Concen: 12.984 ug/l
RT: 2.715 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

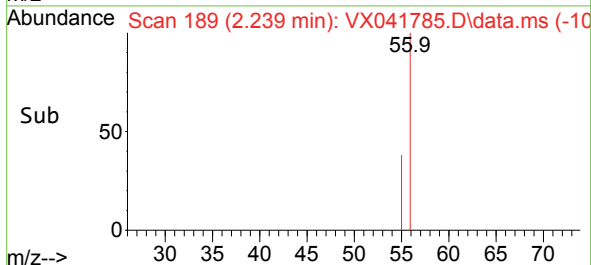
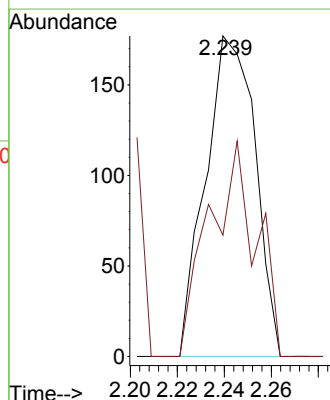
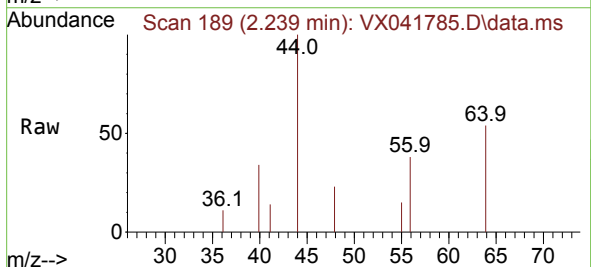
Instrument :
MSVOA_X
ClientSampleId :

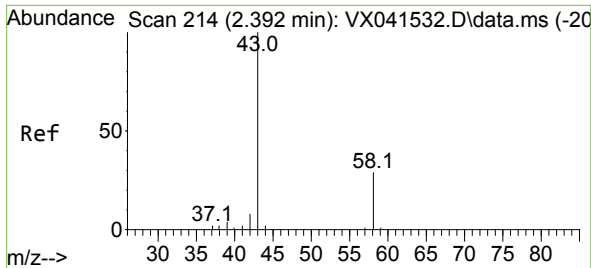
Tgt Ion: 43 Resp: 23405
Ion Ratio Lower Upper
43 100
74 24.2 19.9 29.9



#13
Acrolein
Concen: 1.180 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.000 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Tgt Ion: 56 Resp: 259
Ion Ratio Lower Upper
56 100
55 35.1 55.1 82.7#

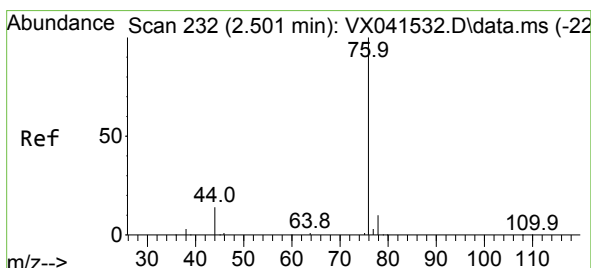
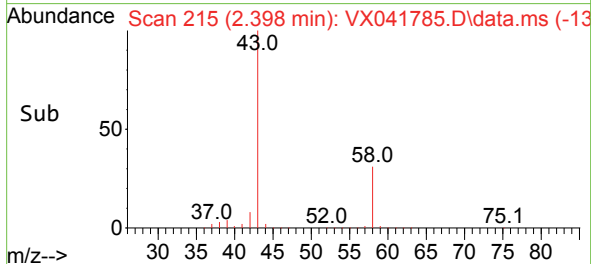
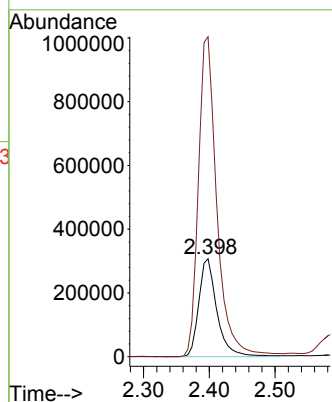
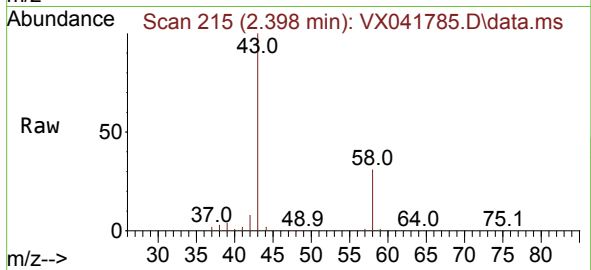




#15
Acetone
Concen: 2765.445 ug/l
RT: 2.398 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

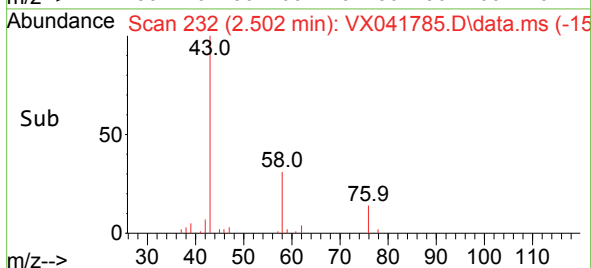
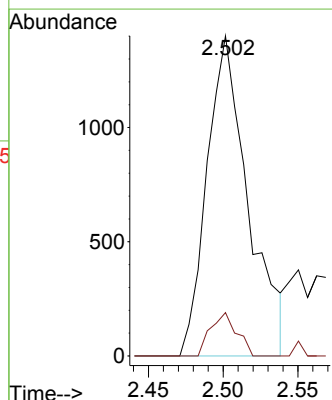
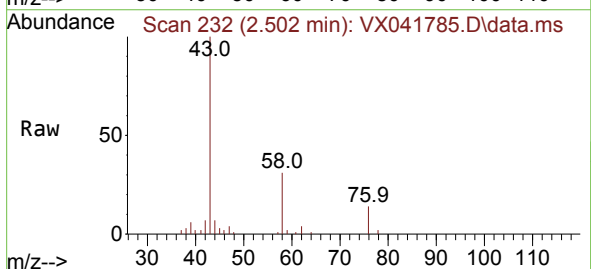
Instrument :
MSVOA_X
ClientSampleId :

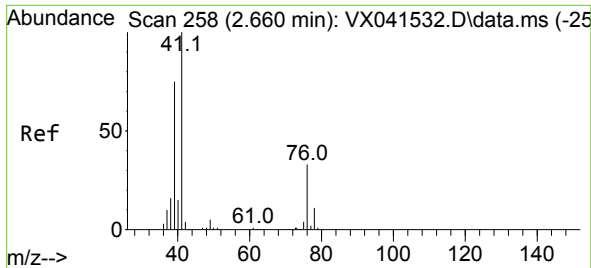
Tgt Ion: 58 Resp: 587233
Ion Ratio Lower Upper
58 100
43 327.1 274.0 411.0



#16
Carbon Disulfide
Concen: 0.994 ug/l
RT: 2.502 min Scan# 232
Delta R.T. 0.000 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

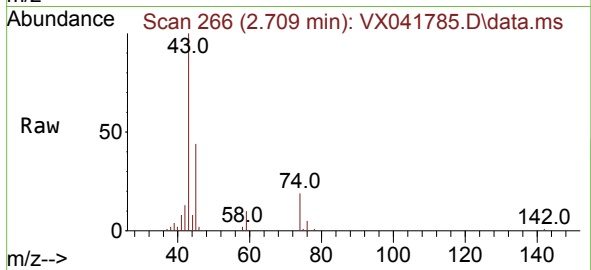
Tgt Ion: 76 Resp: 2685
Ion Ratio Lower Upper
76 100
78 13.6 7.6 11.4#



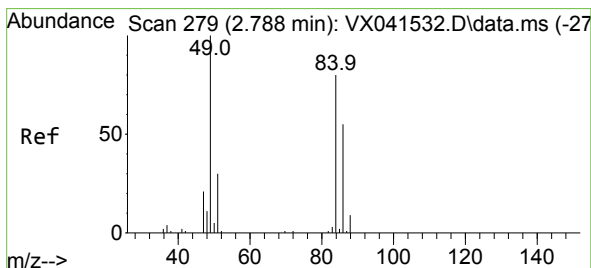
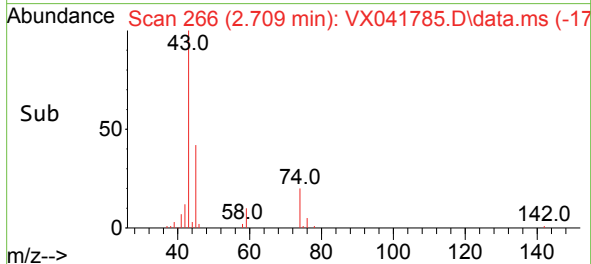
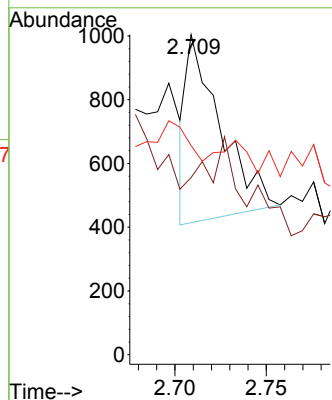


#17
 Allyl chloride
 Concen: 0.360 ug/l
 RT: 2.709 min Scan# 266
 Delta R.T. 0.049 min
 Lab File: VX041785.D
 Acq: 07 Jun 2024 13:04

Instrument :
 MSVOA_X
 ClientSampleId :

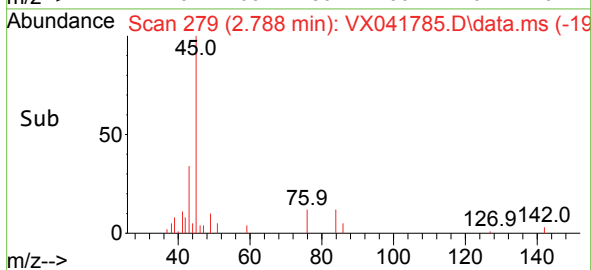
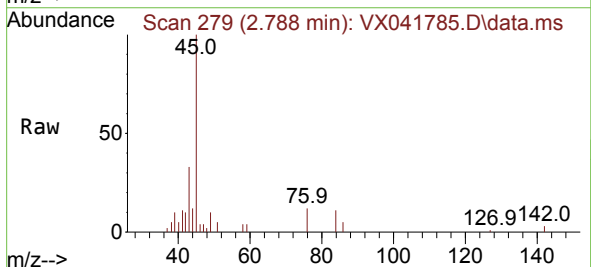
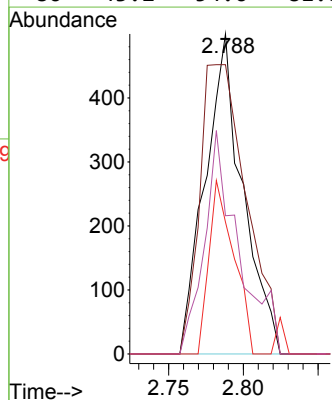


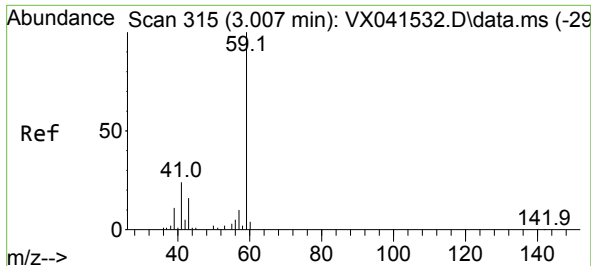
Tgt Ion: 41 Resp: 764
 Ion Ratio Lower Upper
 41 100
 39 17.2 37.5 112.7#
 76 18.2 16.6 49.8



#18
 Methylene Chloride
 Concen: 0.615 ug/l
 RT: 2.788 min Scan# 279
 Delta R.T. 0.000 min
 Lab File: VX041785.D
 Acq: 07 Jun 2024 13:04

Tgt Ion: 84 Resp: 875
 Ion Ratio Lower Upper
 84 100
 49 90.4 99.8 149.8#
 51 41.2 30.2 45.4
 86 43.2 54.6 81.8#

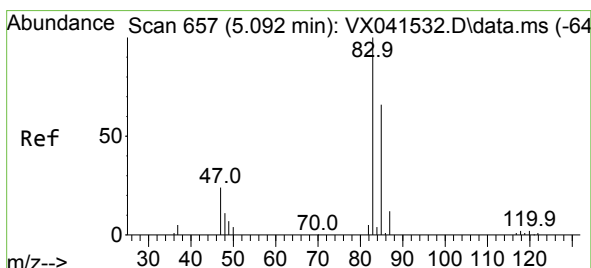
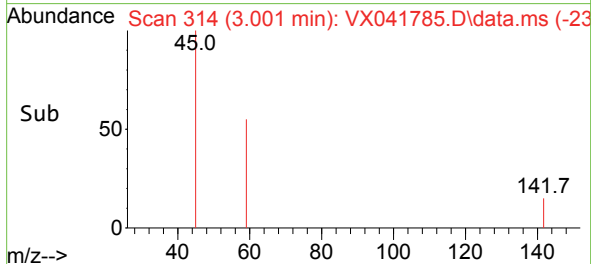
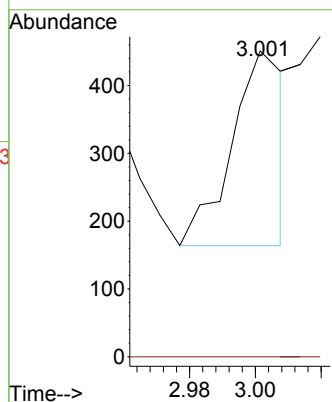
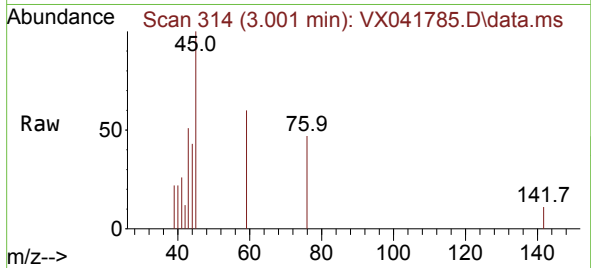




#23
tert-Butyl Alcohol
Concen: 0.951 ug/l
RT: 3.001 min Scan# 315
Delta R.T. -0.006 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

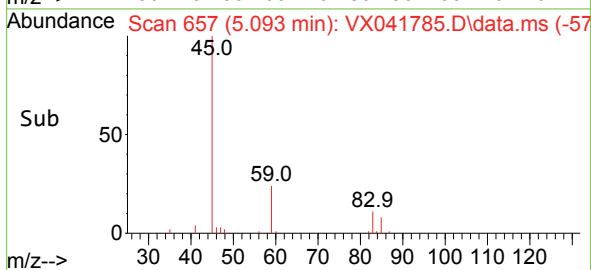
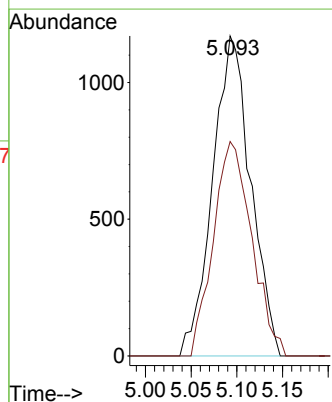
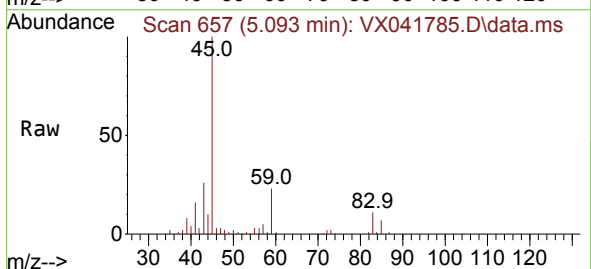
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MSVOA_X
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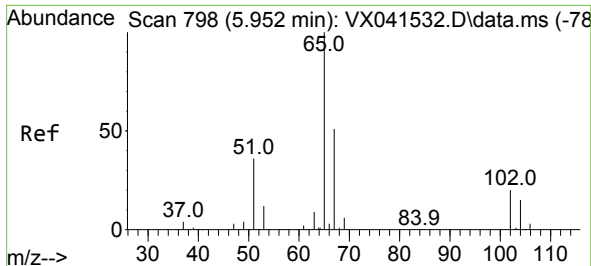
Tgt Ion: 59 Resp: 320
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 1.271 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.000 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Tgt Ion: 83 Resp: 3391
Ion Ratio Lower Upper
83 100
85 67.0 52.9 79.3





#27

1,2-Dichloroethane-d4

Concen: 31.645 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX041785.D

Acq: 07 Jun 2024 13:04

Instrument :

MSVOA_X

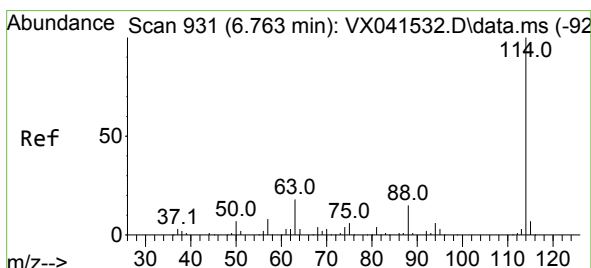
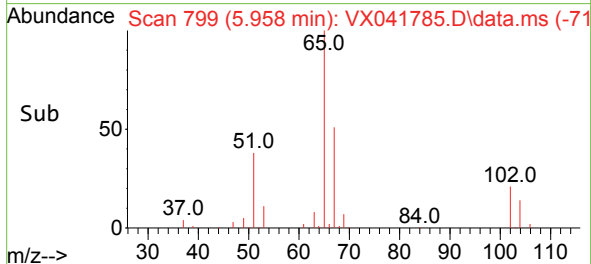
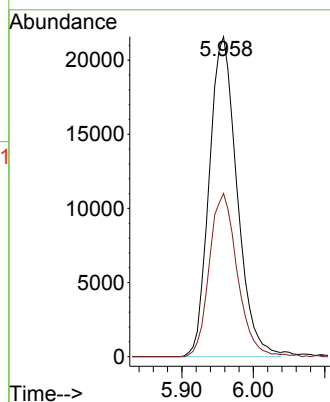
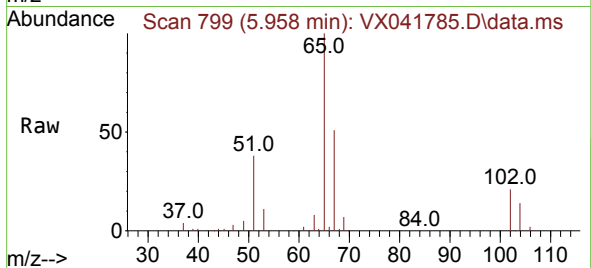
ClientSampleId :

Tgt Ion: 65 Resp: 58298

Ion Ratio Lower Upper

65 100

67 51.3 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX041785.D

Acq: 07 Jun 2024 13:04

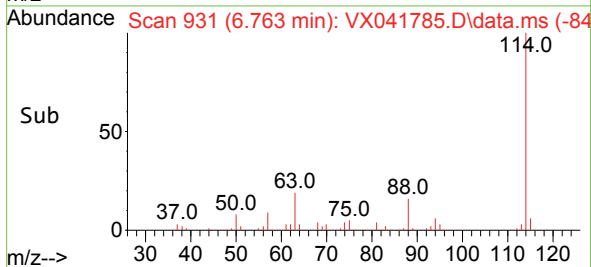
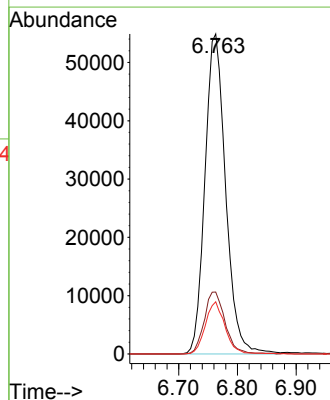
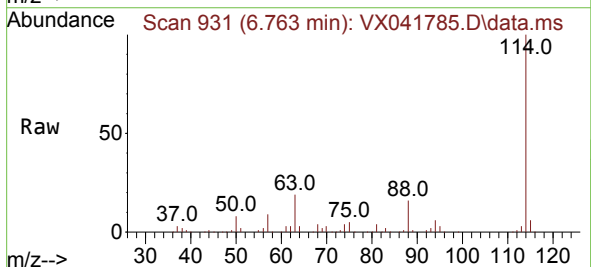
Tgt Ion: 114 Resp: 134423

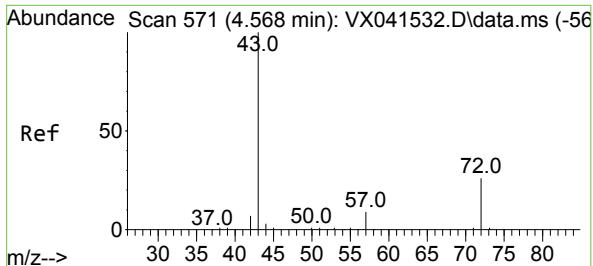
Ion Ratio Lower Upper

114 100

63 19.4 15.4 23.0

88 15.3 12.2 18.2

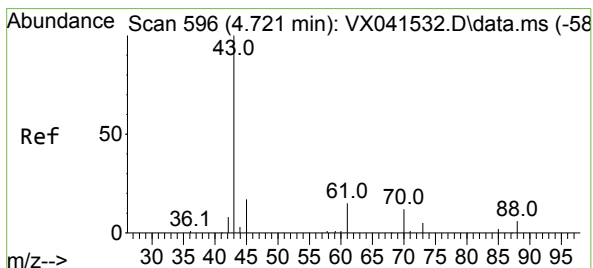
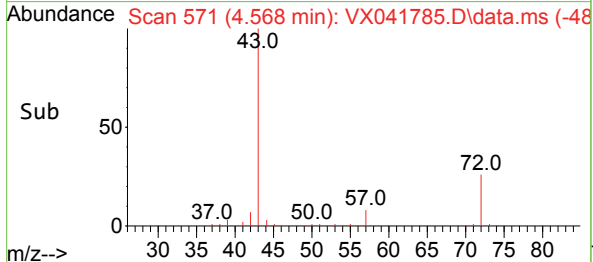
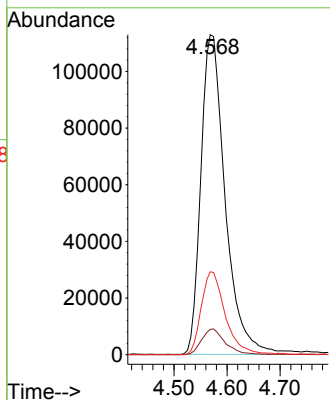
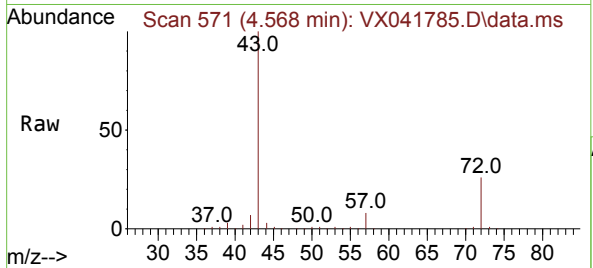




#30
2-Butanone
Concen: 303.911 ug/l
RT: 4.568 min Scan# 51
Delta R.T. 0.000 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

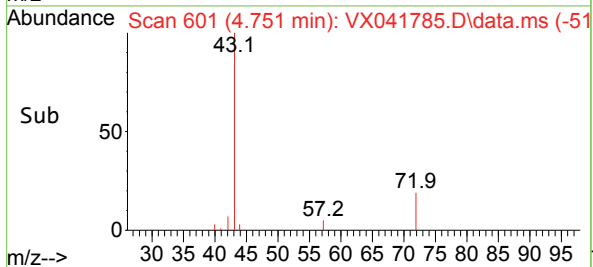
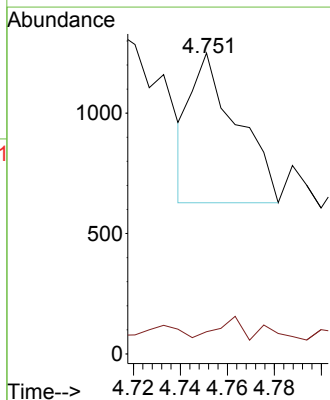
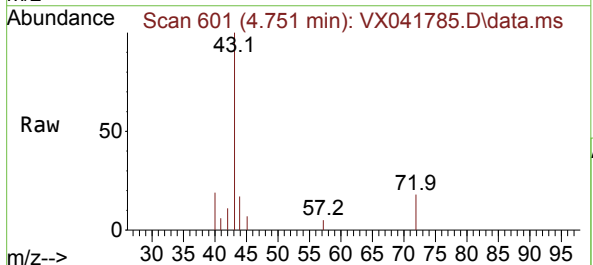
Instrument :
MSVOA_X
ClientSampleId :

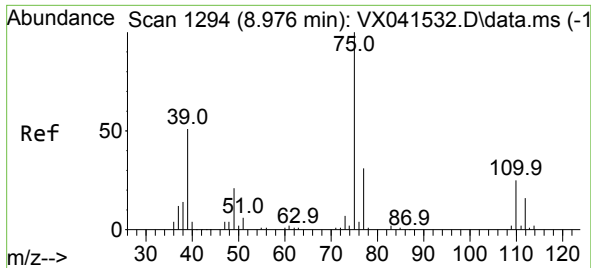
Tgt Ion: 43 Resp: 358696
Ion Ratio Lower Upper
43 100
57 7.8 6.6 10.0
72 25.6 20.7 31.1



#43
Ethyl Acetate
Concen: 0.373 ug/l
RT: 4.751 min Scan# 601
Delta R.T. 0.031 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Tgt Ion: 43 Resp: 850
Ion Ratio Lower Upper
43 100
45 7.9 11.9 17.9#

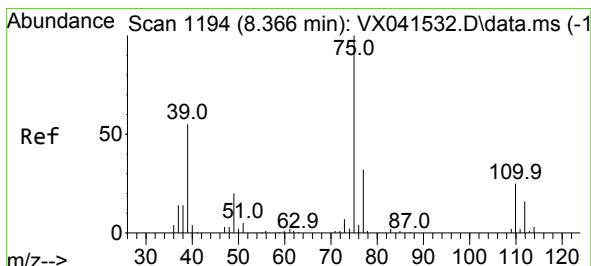
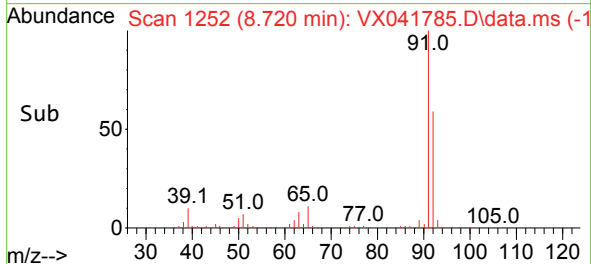
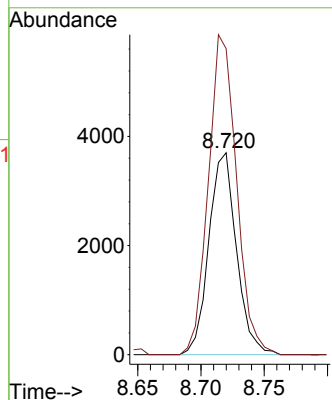
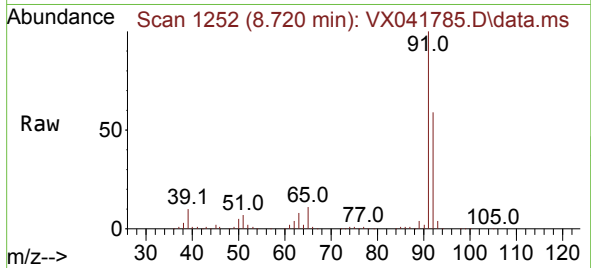




#48
 t-1,3-Dichloropropene
 Concen: 2.860 ug/l
 RT: 8.720 min Scan# 1194
 Delta R.T. -0.256 min
 Lab File: VX041785.D
 Acq: 07 Jun 2024 13:04

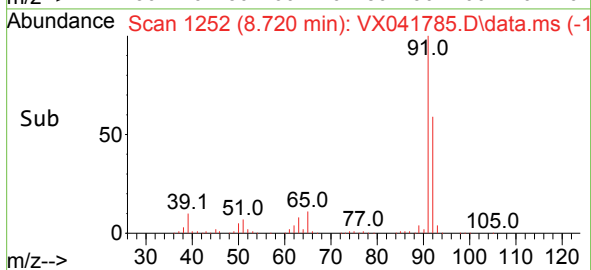
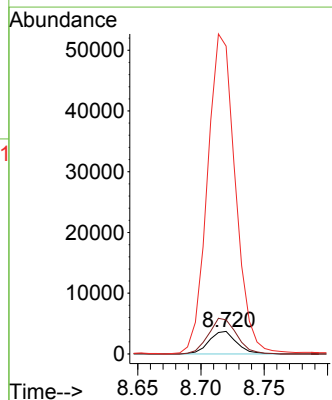
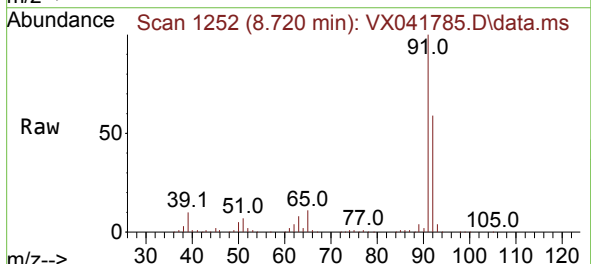
Instrument :
 MSVOA_X
 ClientSampleId :

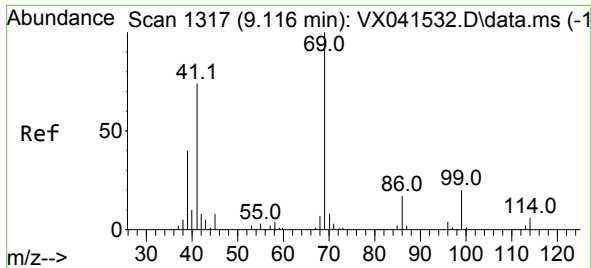
Tgt Ion: 75 Resp: 5633
 Ion Ratio Lower Upper
 75 100
 77 151.6 24.5 36.7#



#49
 cis-1,3-Dichloropropene
 Concen: 2.640 ug/l
 RT: 8.720 min Scan# 1252
 Delta R.T. 0.354 min
 Lab File: VX041785.D
 Acq: 07 Jun 2024 13:04

Tgt Ion: 75 Resp: 5633
 Ion Ratio Lower Upper
 75 100
 77 151.6 25.8 38.8#
 39 1364.5 43.6 65.4#

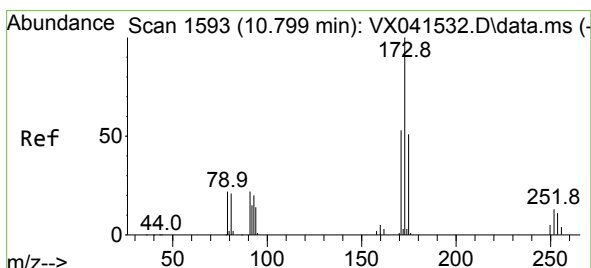
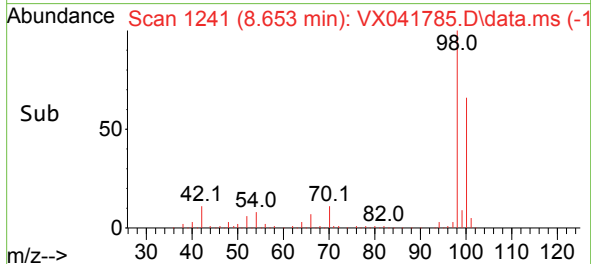
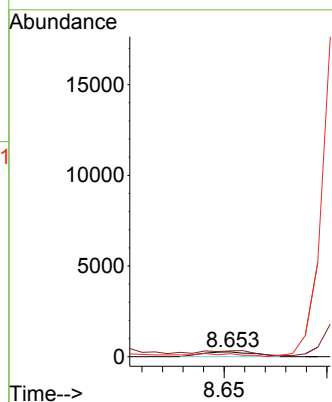
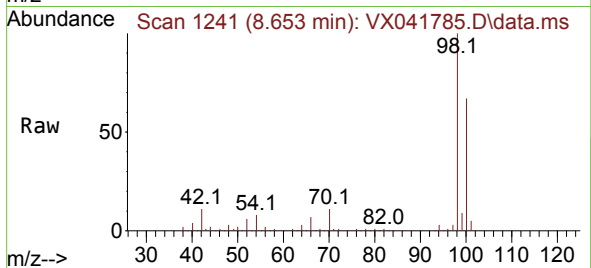




#51
Ethyl methacrylate
Concen: 0.200 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.463 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

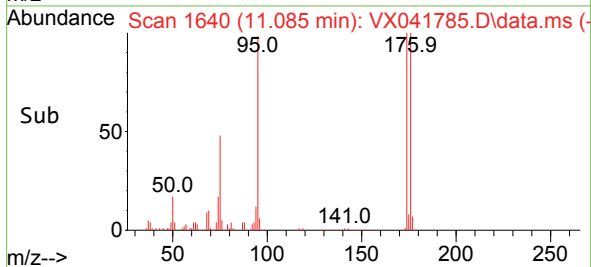
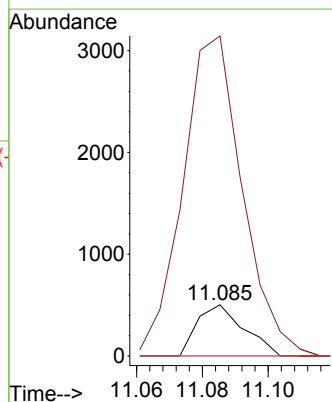
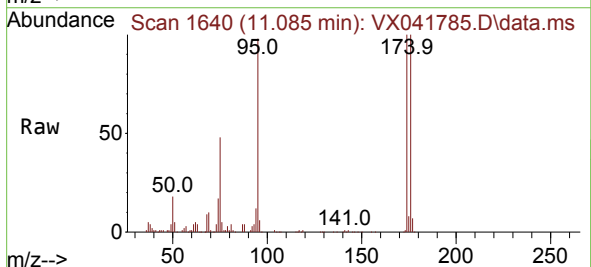
Instrument :
MSVOA_X
ClientSampleId :

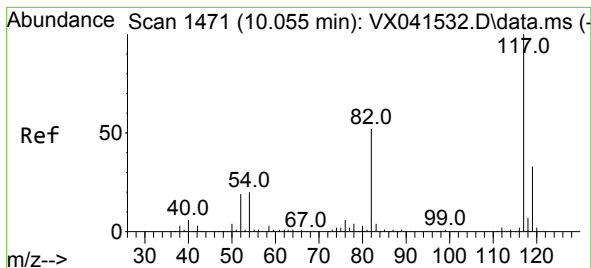
Tgt Ion: 69 Resp: 468
Ion Ratio Lower Upper
69 100
41 93.9 37.1 111.3
39 31.4 20.2 60.6



#56
Bromoform
Concen: 0.375 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.287 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Tgt Ion:173 Resp: 497
Ion Ratio Lower Upper
173 100
175 799.6 39.0 58.6#
254 0.0 10.3 15.5#

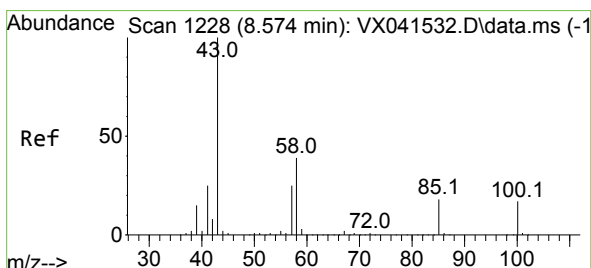
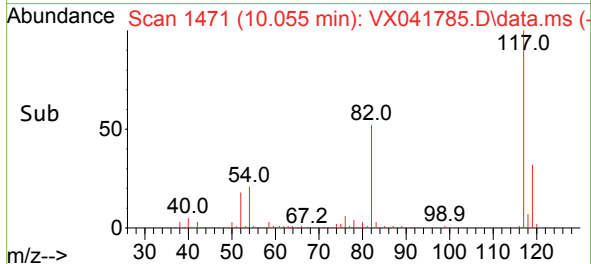
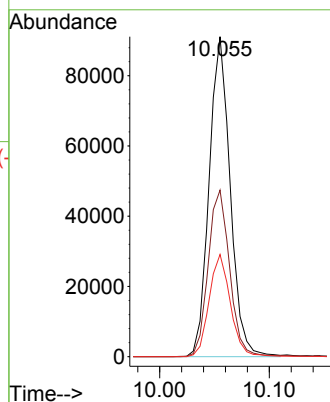
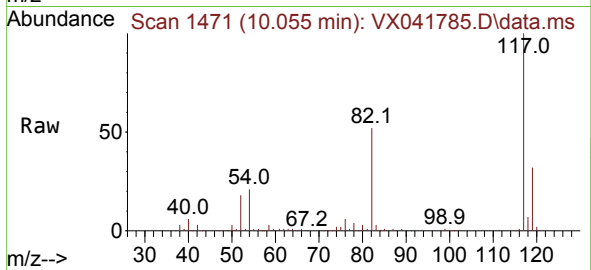




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

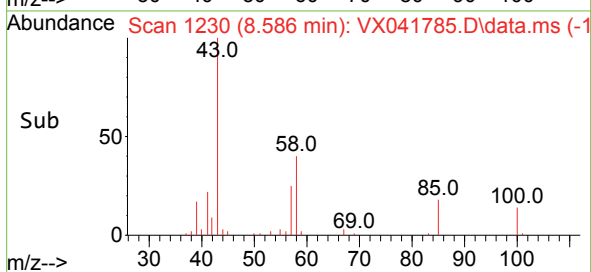
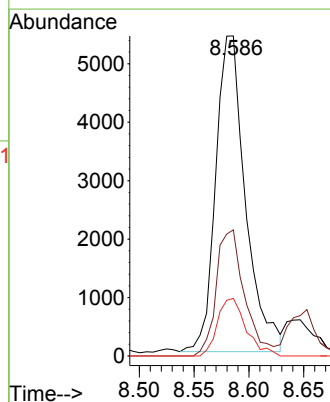
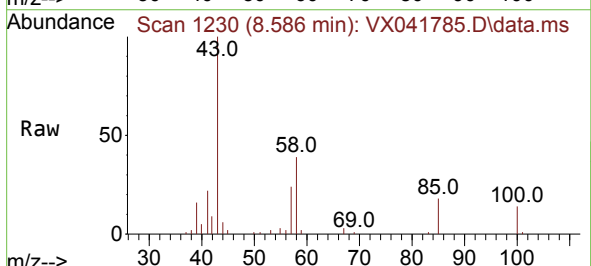
Instrument :
MSVOA_X
ClientSampleId :

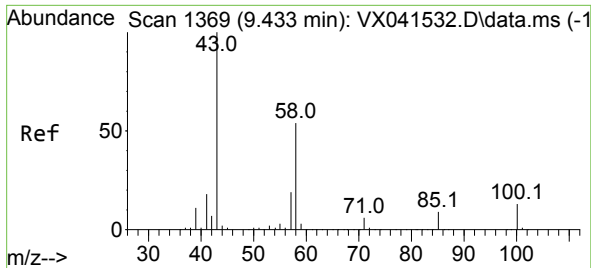
Tgt Ion:117 Resp: 121734
Ion Ratio Lower Upper
117 100
82 52.6 41.7 62.5
119 32.3 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 4.597 ug/l
RT: 8.586 min Scan# 1230
Delta R.T. 0.012 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Tgt Ion: 43 Resp: 10226
Ion Ratio Lower Upper
43 100
58 37.9 30.2 45.4
85 17.4 14.6 21.8

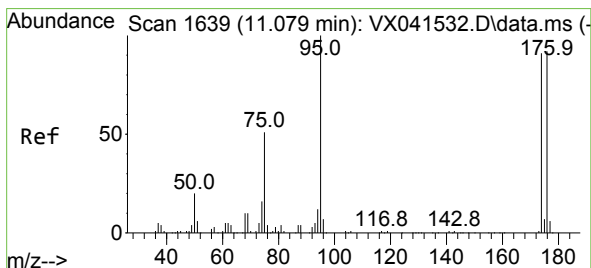
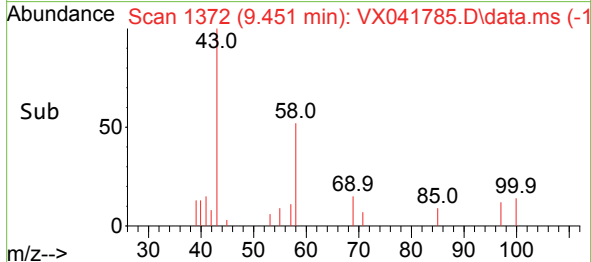
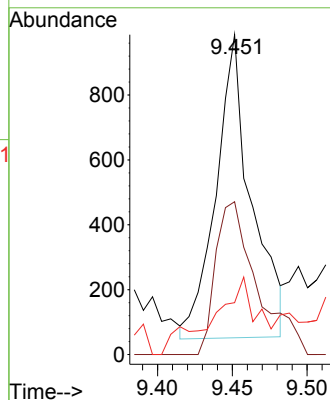
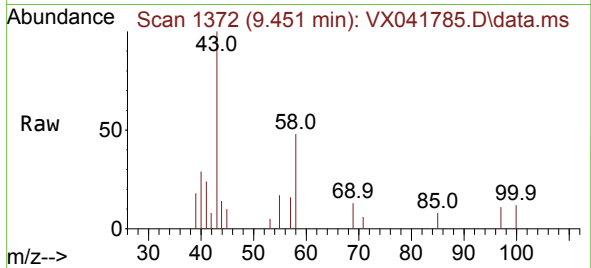




#59
2-Hexanone
Concen: 0.865 ug/l
RT: 9.451 min Scan# 11
Delta R.T. 0.018 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

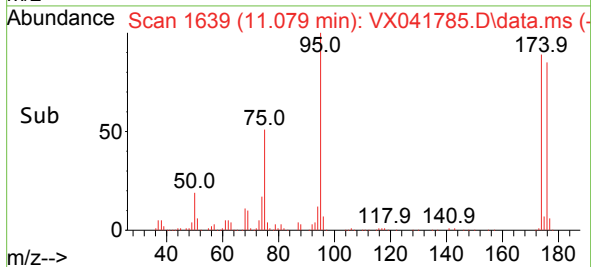
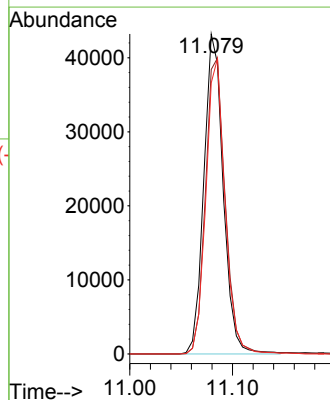
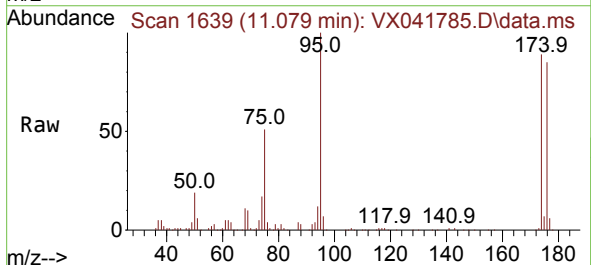
Instrument :
MSVOA_X
ClientSampleId :

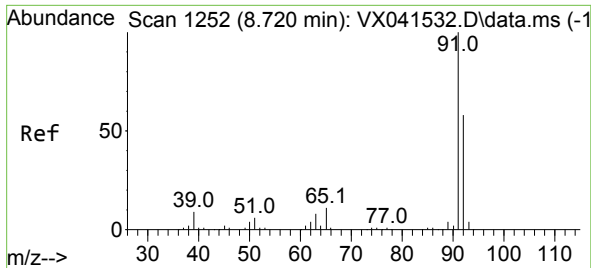
Tgt Ion: 43 Resp: 1532
Ion Ratio Lower Upper
43 100
58 59.3 42.3 63.5
57 25.8 15.1 22.7#



#60
4-Bromofluorobenzene
Concen: 29.742 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Tgt Ion: 95 Resp: 56520
Ion Ratio Lower Upper
95 100
174 94.9 76.6 115.0
176 91.1 75.4 113.0

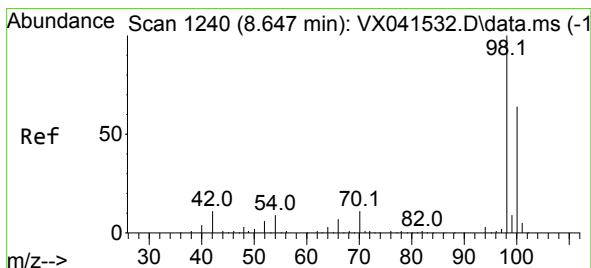
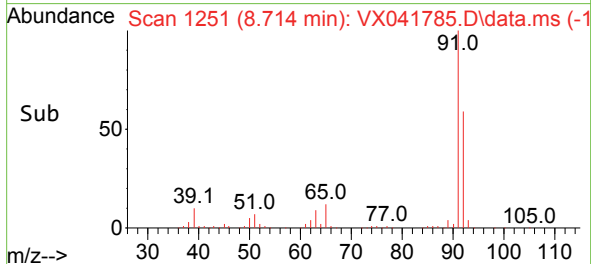
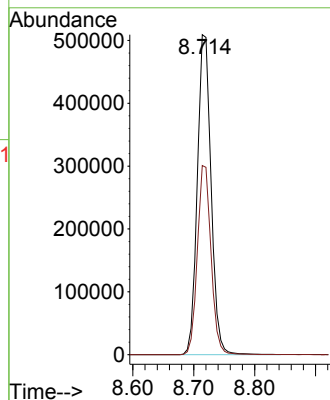
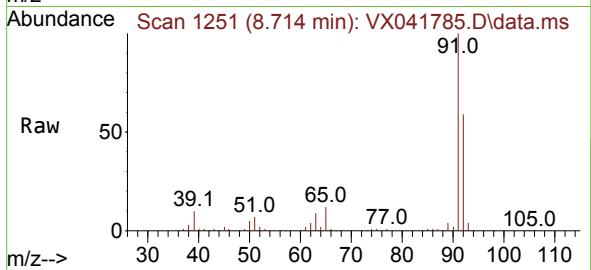




#62
Toluene
Concen: 131.547 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

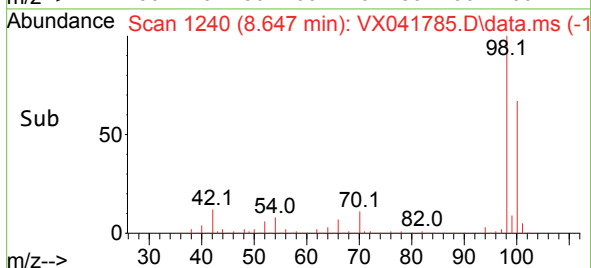
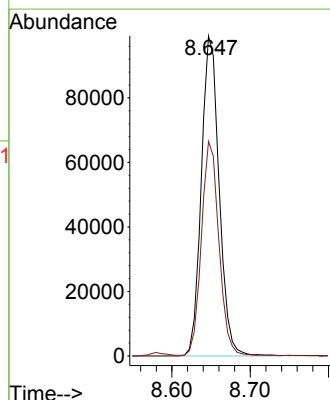
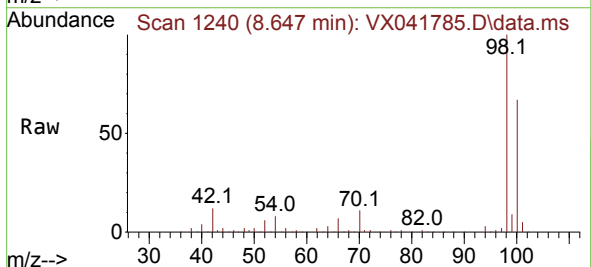
Instrument :
MSVOA_X
ClientSampleId :

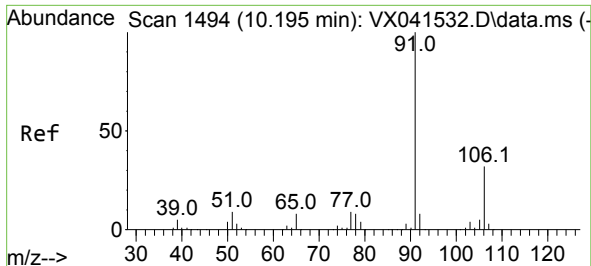
Tgt Ion: 91 Resp: 796822
Ion Ratio Lower Upper
91 100
92 58.9 47.0 70.6



#63
Toluene-d8
Concen: 30.021 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

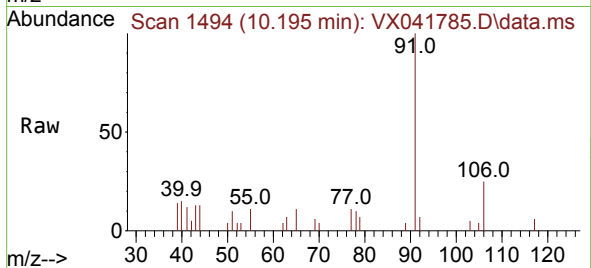
Tgt Ion: 98 Resp: 156658
Ion Ratio Lower Upper
98 100
100 65.4 53.1 79.7



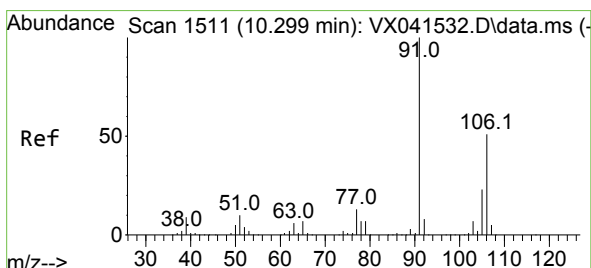
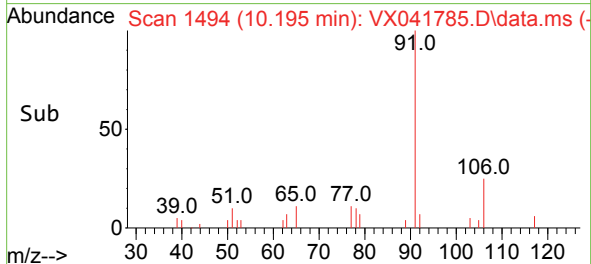
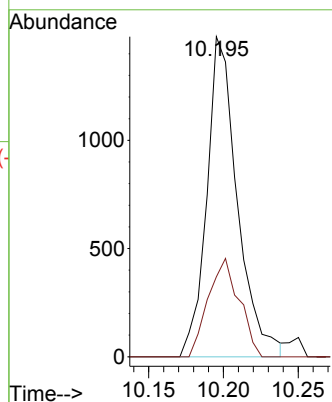


#66
Ethyl Benzene
Concen: 0.313 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Instrument :
MSVOA_X
ClientSampleId :

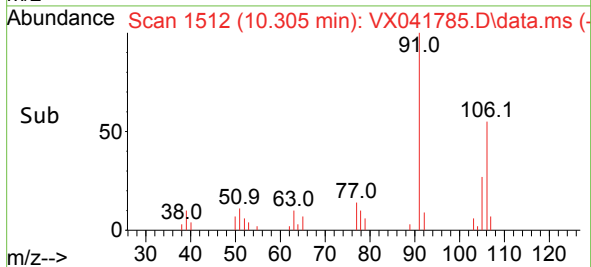
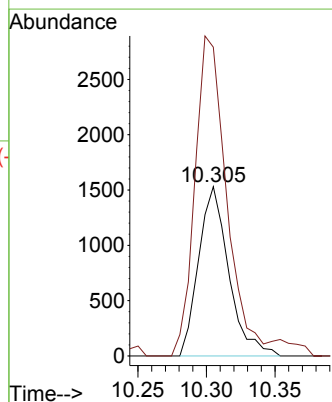
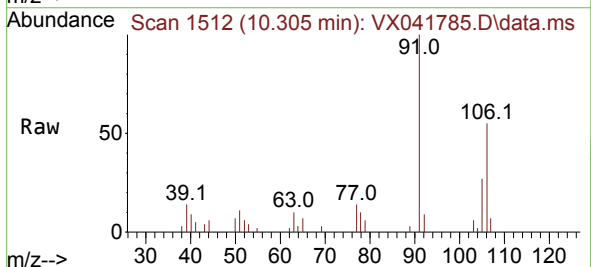


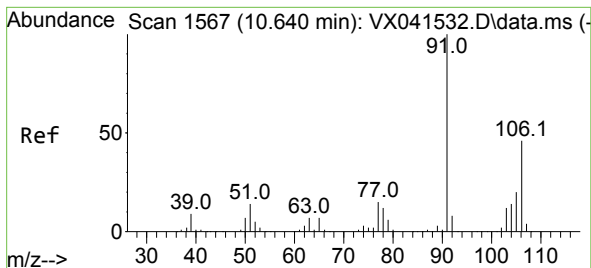
Tgt Ion: 91 Resp: 2103
Ion Ratio Lower Upper
91 100
106 24.9 25.9 38.9#



#67
m/p-Xylenes
Concen: 0.893 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Tgt Ion: 106 Resp: 2348
Ion Ratio Lower Upper
106 100
91 196.7 156.5 234.7





#68

o-Xylene

Concen: 0.412 ug/l

RT: 10.640 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX041785.D

Acq: 07 Jun 2024 13:04

Instrument :

MSVOA_X

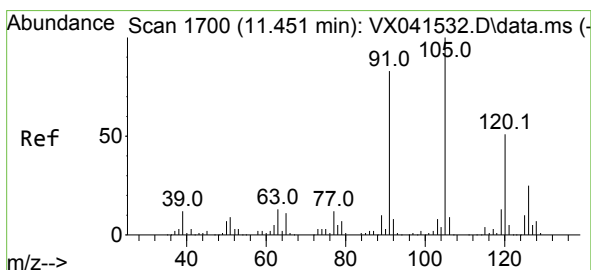
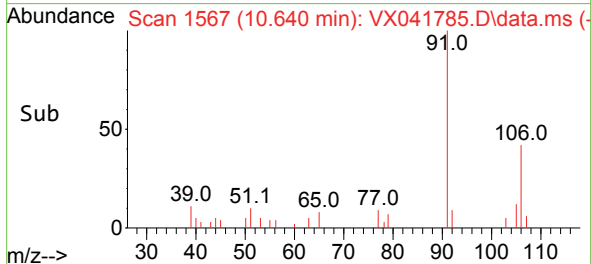
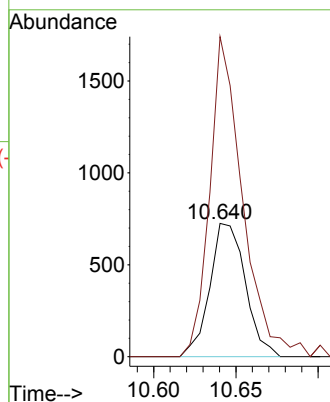
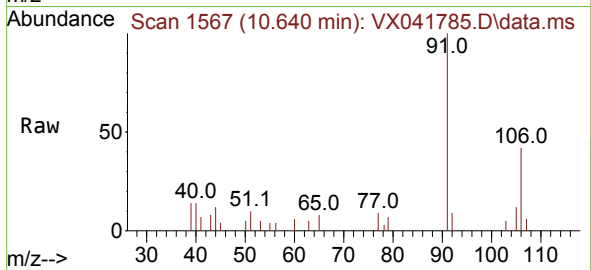
ClientSampleId :

Tgt Ion:106 Resp: 1090

Ion Ratio Lower Upper

106 100

91 222.2 105.2 315.6



#76

1,3,5-Trimethylbenzene

Concen: 0.246 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX041785.D

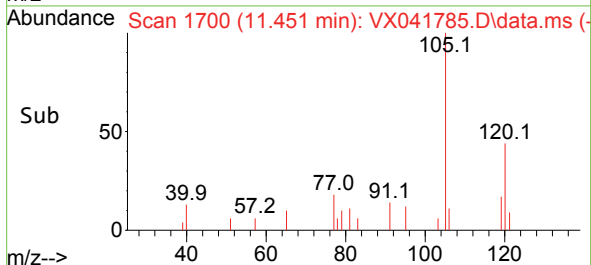
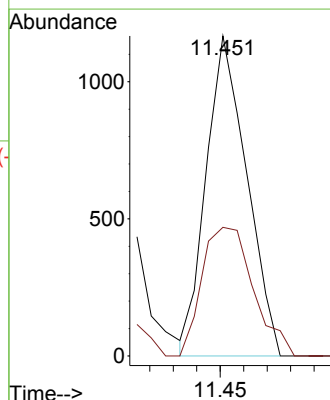
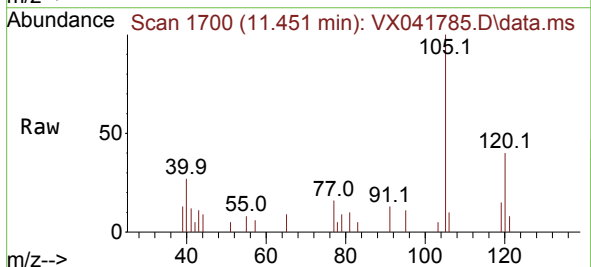
Acq: 07 Jun 2024 13:04

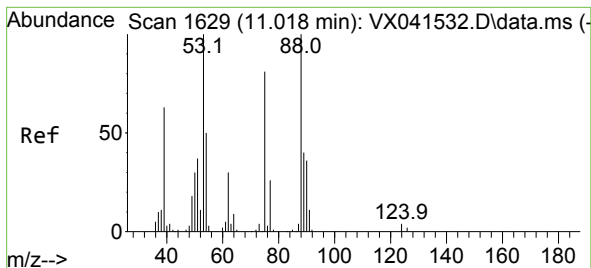
Tgt Ion:105 Resp: 1403

Ion Ratio Lower Upper

105 100

120 51.0 0.0 102.6

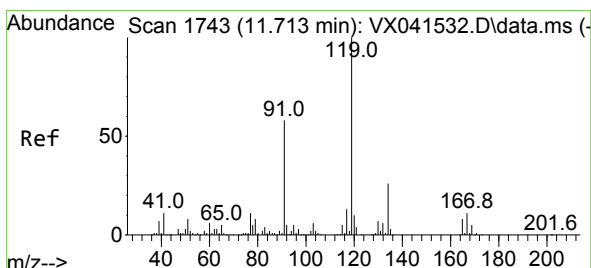
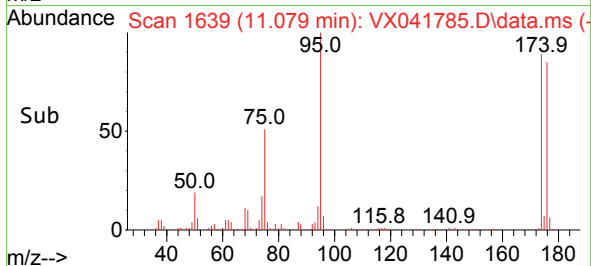
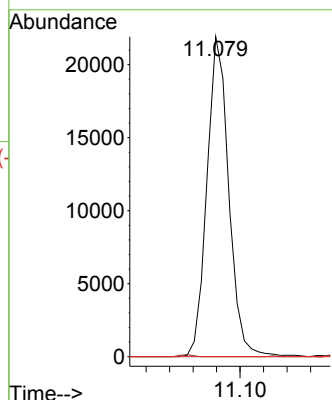
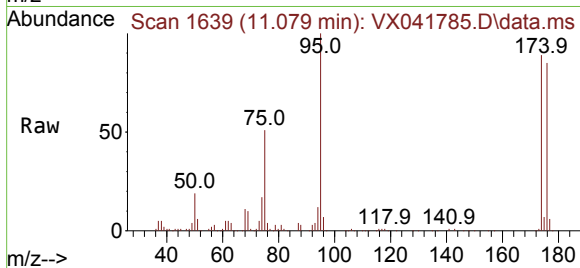




#77
t-1,4-Dichloro-2-butene
Concen: 43.376 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

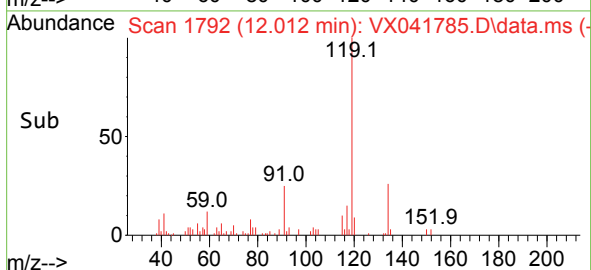
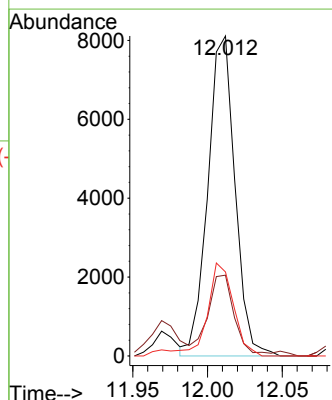
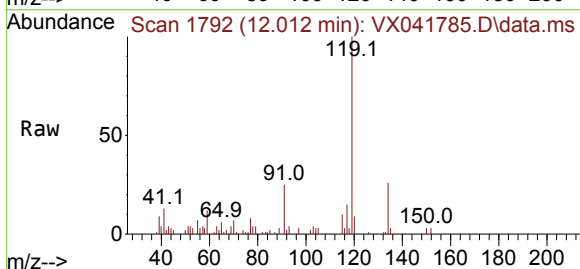
Instrument :
MSVOA_X
ClientSampleId :

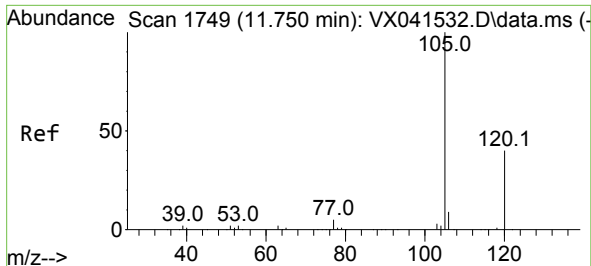
Tgt Ion: 75 Resp: 28257
Ion Ratio Lower Upper
75 100
53 0.0 61.8 185.3#
89 0.0 24.9 74.7#



#79
tert-butylbenzene
Concen: 1.687 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.299 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Tgt Ion: 119 Resp: 10254
Ion Ratio Lower Upper
119 100
91 23.7 0.0 110.0
134 27.0 0.0 50.0

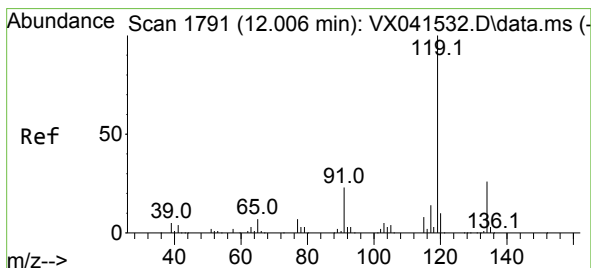
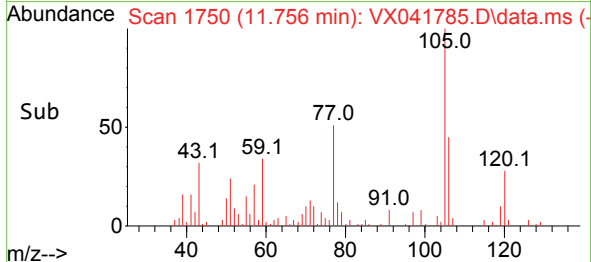
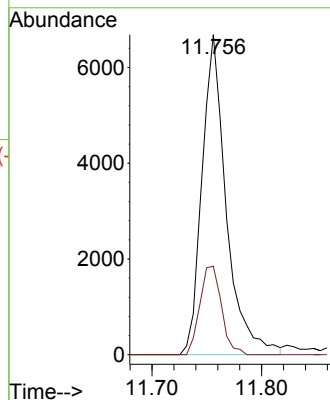
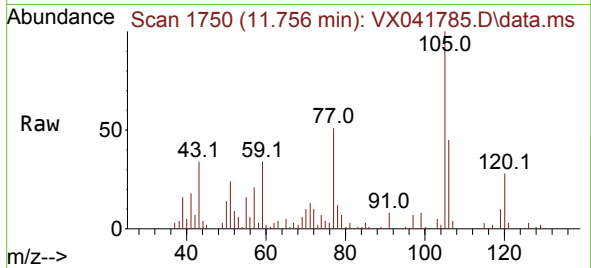




#80
 1,2,4-Trimethylbenzene
 Concen: 1.796 ug/l
 RT: 11.756 min Scan# 1750
 Delta R.T. 0.006 min
 Lab File: VX041785.D
 Acq: 07 Jun 2024 13:04

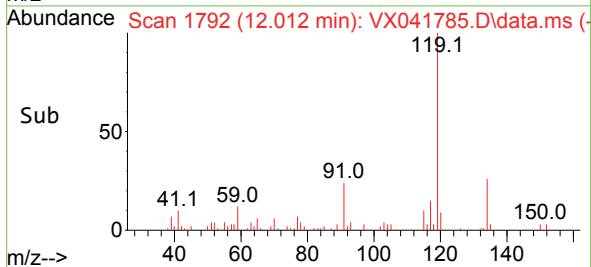
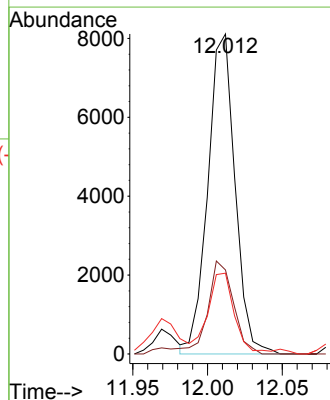
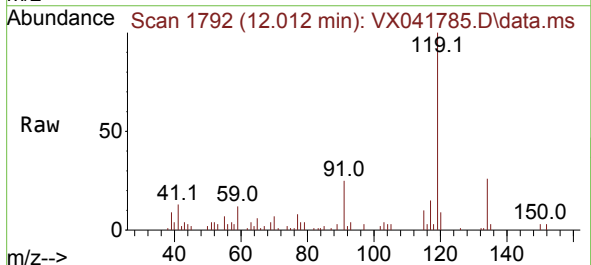
Instrument :
 MSVOA_X
 ClientSampleId :

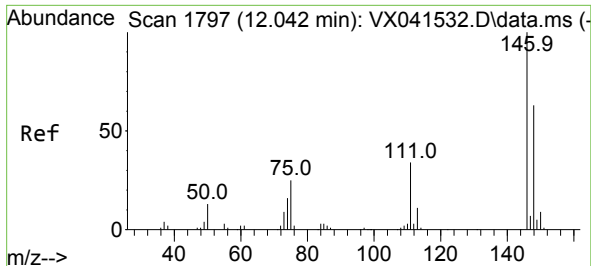
Tgt Ion:105 Resp: 10280
 Ion Ratio Lower Upper
 105 100
 120 24.6 0.0 92.2



#82
 p-Isopropyltoluene
 Concen: 1.649 ug/l
 RT: 12.012 min Scan# 1792
 Delta R.T. 0.006 min
 Lab File: VX041785.D
 Acq: 07 Jun 2024 13:04

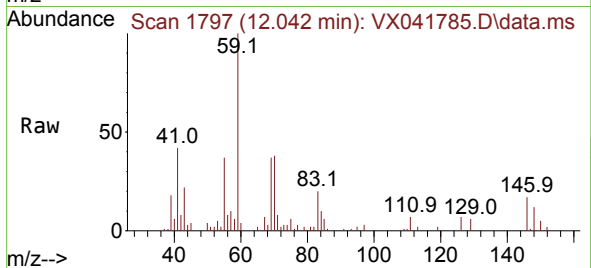
Tgt Ion:119 Resp: 10254
 Ion Ratio Lower Upper
 119 100
 134 27.0 0.0 53.4
 91 23.7 0.0 44.8



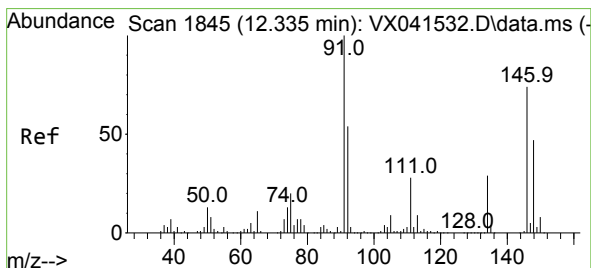
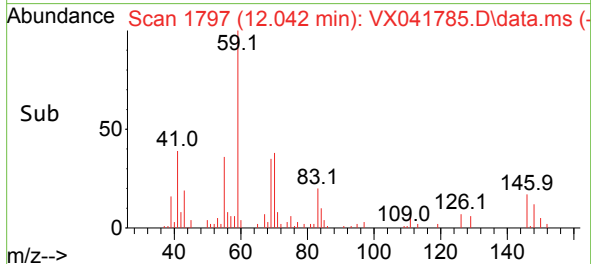
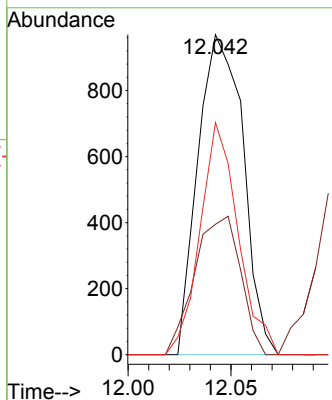


#84
1,4-Dichlorobenzene
Concen: 0.415 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Instrument :
MSVOA_X
ClientSampleId :

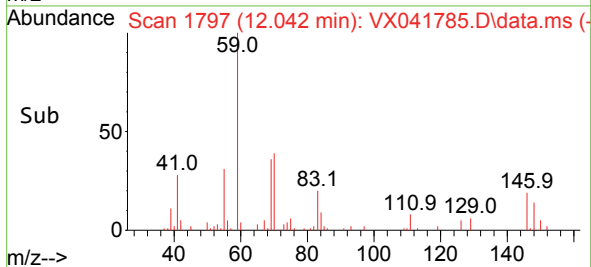
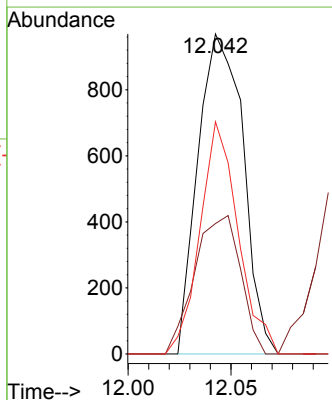
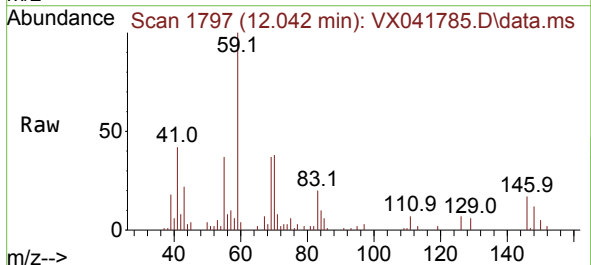


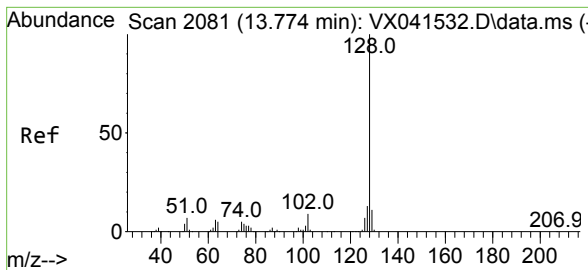
Tgt Ion:146 Resp: 1479
Ion Ratio Lower Upper
146 100
111 44.1 17.8 53.5
148 61.3 31.9 95.5



#87
1,2-Dichlorobenzene
Concen: 0.411 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.293 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

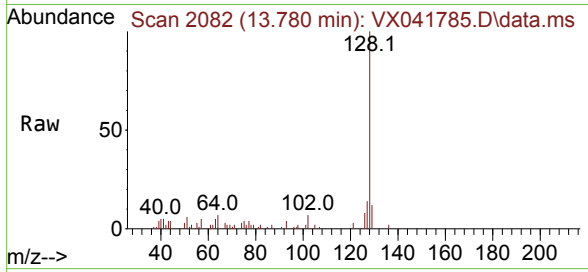
Tgt Ion:146 Resp: 1479
Ion Ratio Lower Upper
146 100
111 44.1 19.3 57.9
148 61.3 31.8 95.4





#91
Naphthalene
Concen: 1.047 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX041785.D
Acq: 07 Jun 2024 13:04

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:	128	Resp:	7565
Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.6	16.0
129	11.1	8.8	13.2

