

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036544.D
 Acq On : 13 Jul 2023 22:37
 Operator : JC/MD
 Sample : 03593-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 14 04:39:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

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

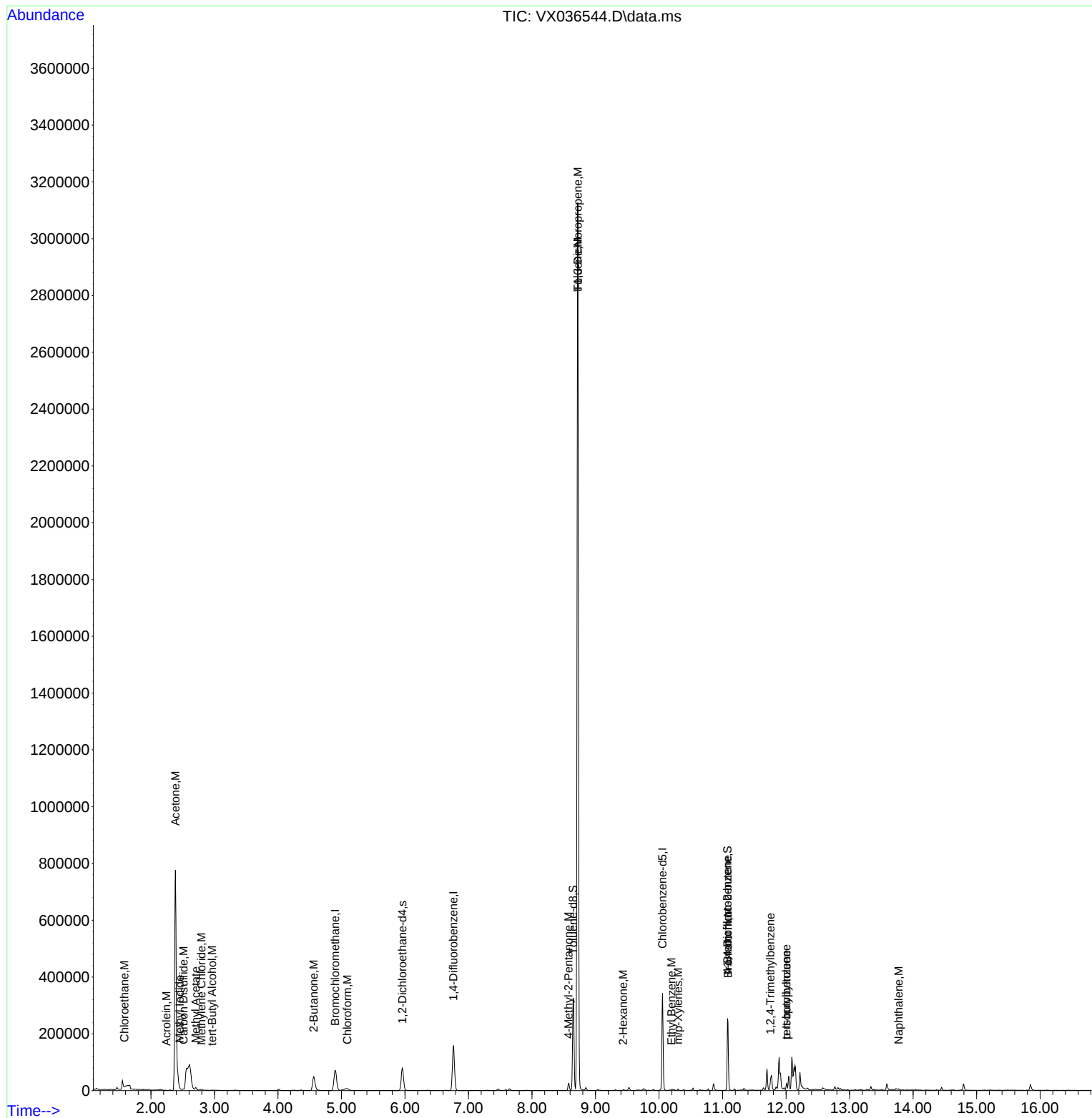
Internal Standards						
1) Bromochloromethane	4.897	128	17791	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	159814	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	149081	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	73922	50.062	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	166.867%#
60) 4-Bromofluorobenzene	11.079	95	68271	28.232	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.100%
63) Toluene-d8	8.646	98	200253	29.191	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.300%
Target Compounds						
						Qvalue
6) Chloroethane	1.581	64	862	0.903	ug/l	96
11) Methyl Iodide	2.452	142	253	0.213	ug/l #	39
12) Methyl Acetate	2.702	43	9971	4.074	ug/l	95
13) Acrolein	2.239	56	287	1.430	ug/l #	29
15) Acetone	2.385	58	268130	1380.655	ug/l	94
16) Carbon Disulfide	2.513	76	4049	1.603	ug/l #	93
18) Methylene Chloride	2.794	84	1441	1.149	ug/l #	73
23) tert-Butyl Alcohol	2.965	59	326	1.023	ug/l #	1
25) Chloroform	5.092	83	612	0.270	ug/l	88
30) 2-Butanone	4.562	43	86819	57.215	ug/l	99
48) t-1,3-Dichloropropene	8.720	75	13286	4.576	ug/l #	1
56) Bromoform	11.085	173	718	0.516	ug/l #	1
58) 4-Methyl-2-Pentanone	8.573	43	16350	5.304	ug/l	96
59) 2-Hexanone	9.433	43	1399	0.597	ug/l #	90
62) Toluene	8.720	91	1935900	231.439	ug/l	98
66) Ethyl Benzene	10.195	91	1974	0.217	ug/l #	84
67) m/p-Xylenes	10.299	106	1353	0.382	ug/l	97
77) t-1,4-Dichloro-2-butene	11.079	75	35021	35.995	ug/l #	7
79) tert-butylbenzene	12.006	119	8466	1.185	ug/l	63
80) 1,2,4-Trimethylbenzene	11.756	105	7367	0.988	ug/l	48
82) p-Isopropyltoluene	12.006	119	8466	1.131	ug/l	100
91) Naphthalene	13.774	128	3025	0.338	ug/l #	97

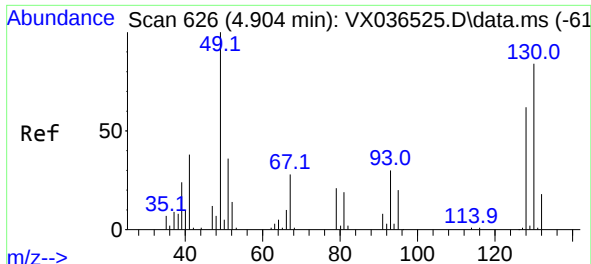
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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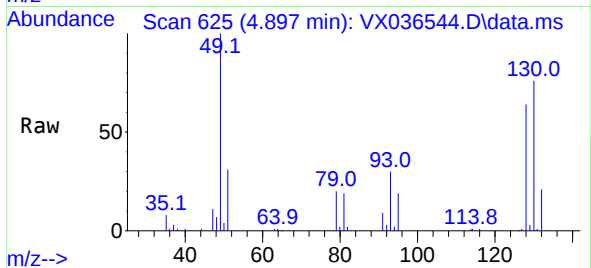
Quant Time: Jul 14 04:39:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 14 04:32:22 2023
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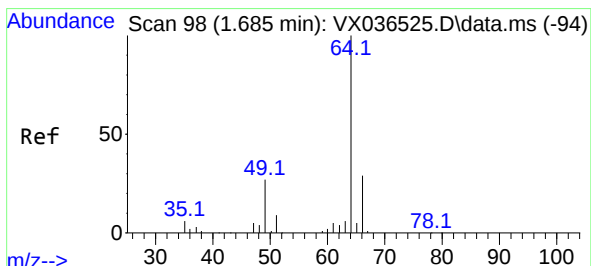
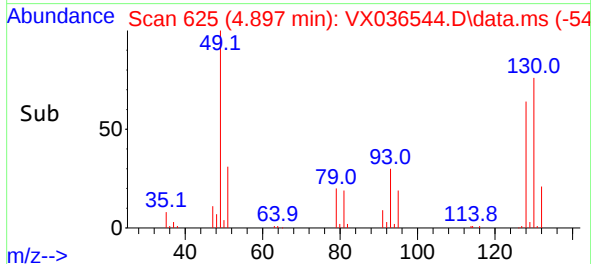
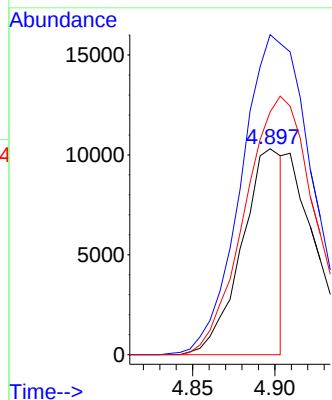


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.007 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

Instrument :
MSVOA_X
ClientSampleId :

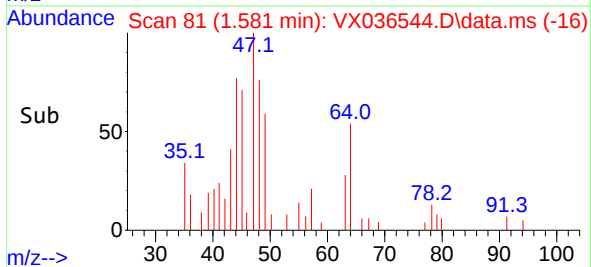
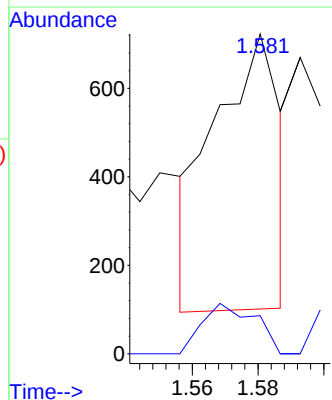
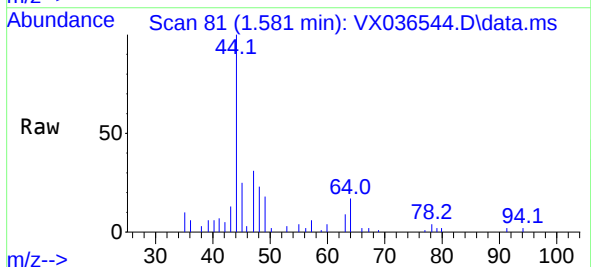


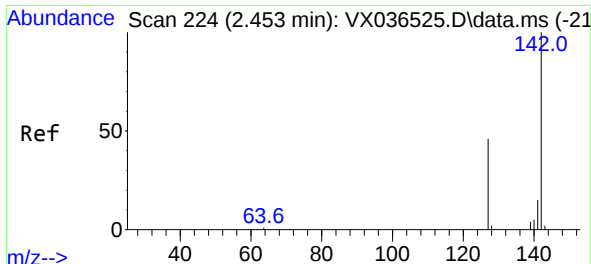
Tgt Ion:128 Resp: 17791
Ion Ratio Lower Upper
128 100
49 274.9 0.0 406.3
130 218.4 0.0 328.0



#6
Chloroethane
Concen: 0.903 ug/l
RT: 1.581 min Scan# 81
Delta R.T. -0.104 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

Tgt Ion: 64 Resp: 862
Ion Ratio Lower Upper
64 100
66 26.7 23.1 34.7





#11

Methyl Iodide

Concen: 0.213 ug/l

RT: 2.452 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX036544.D

Acq: 13 Jul 2023 22:37

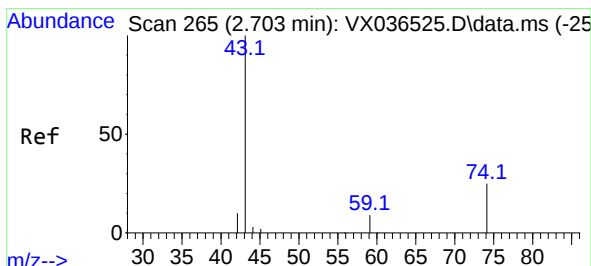
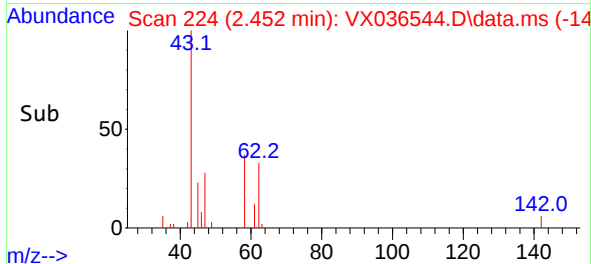
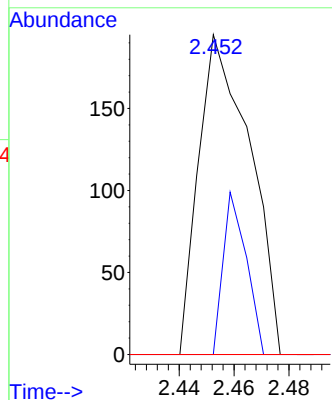
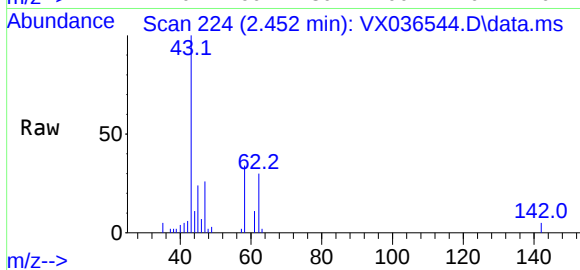
Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:142 Resp: 253

Ion	Ratio	Lower	Upper
142	100		
127	0.0	22.9	68.8#
141	0.0	7.5	22.6#



#12

Methyl Acetate

Concen: 4.074 ug/l

RT: 2.702 min Scan# 265

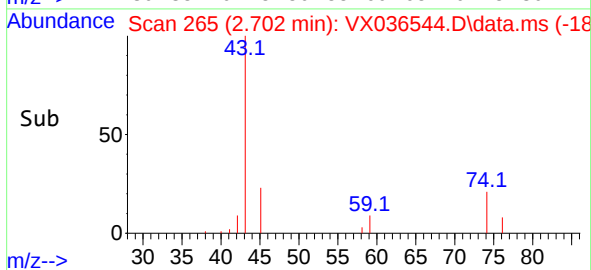
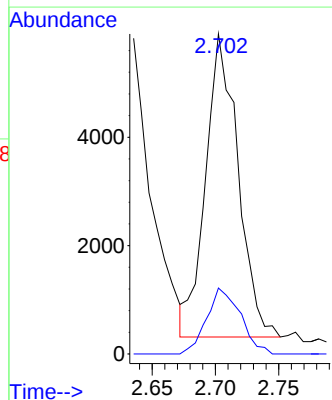
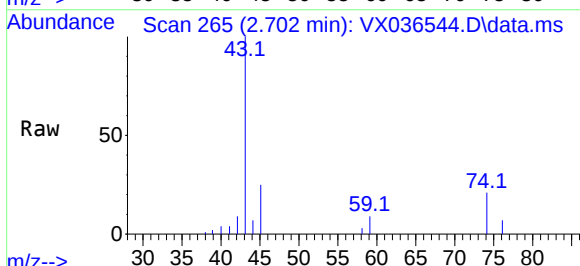
Delta R.T. -0.000 min

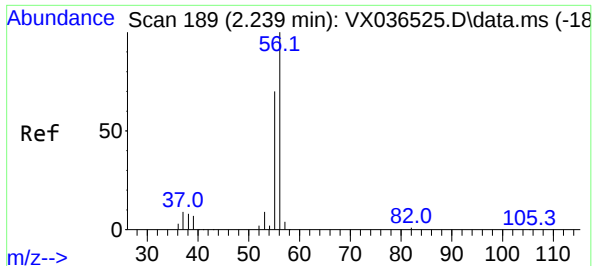
Lab File: VX036544.D

Acq: 13 Jul 2023 22:37

Tgt Ion: 43 Resp: 9971

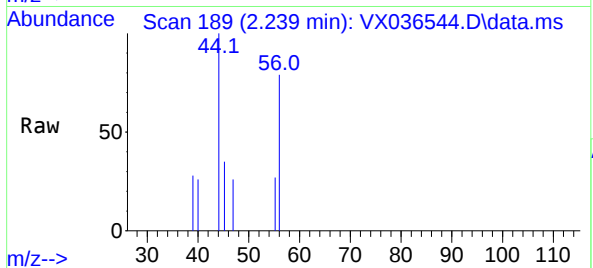
Ion	Ratio	Lower	Upper
43	100		
74	23.0	20.3	30.5



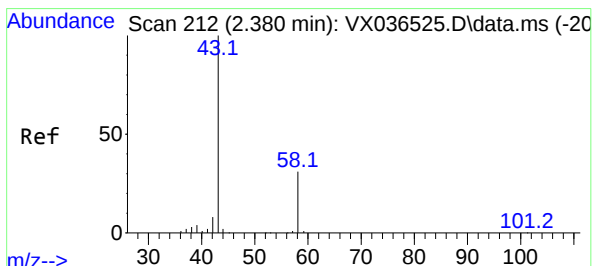
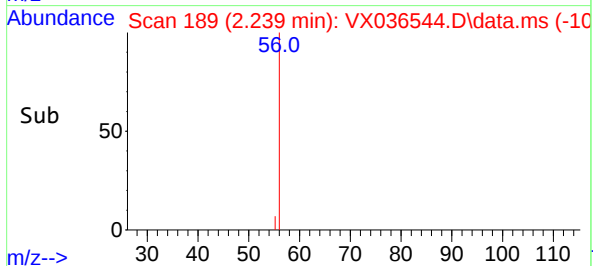
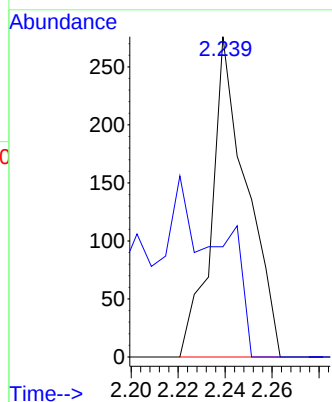


#13
Acrolein
Concen: 1.430 ug/l
RT: 2.239 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

Instrument :
MSVOA_X
ClientSampleId :

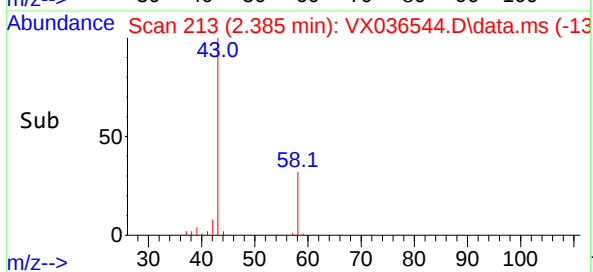
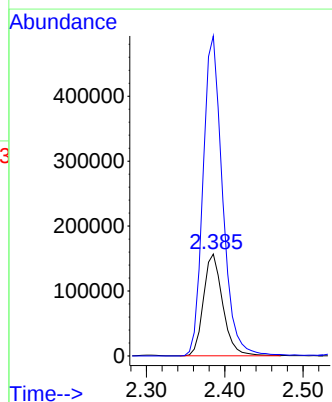
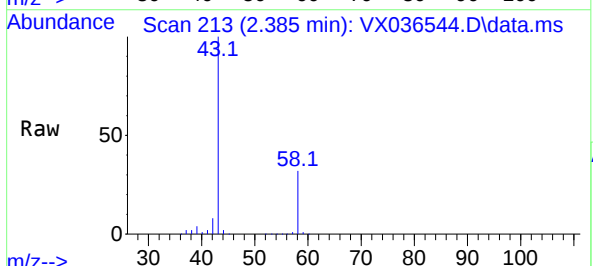


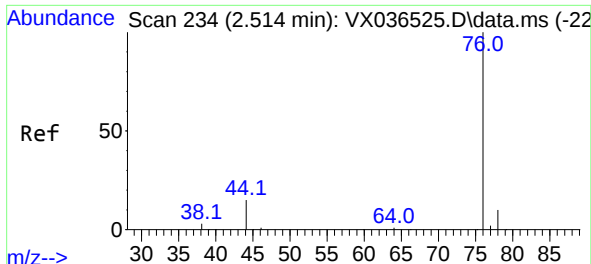
Tgt Ion: 56 Resp: 287
Ion Ratio Lower Upper
56 100
55 14.3 59.7 89.5#



#15
Acetone
Concen: 1380.655 ug/l
RT: 2.385 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

Tgt Ion: 58 Resp: 268130
Ion Ratio Lower Upper
58 100
43 314.2 261.0 391.4

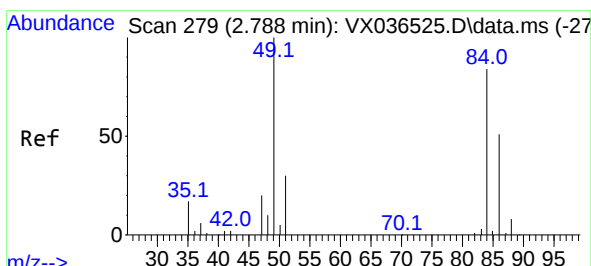
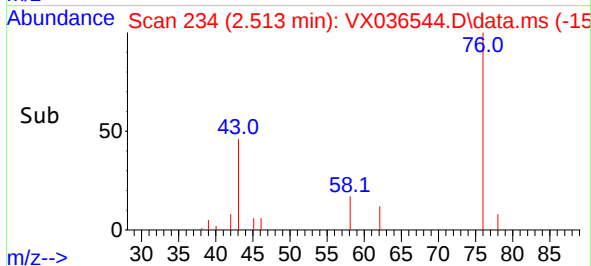
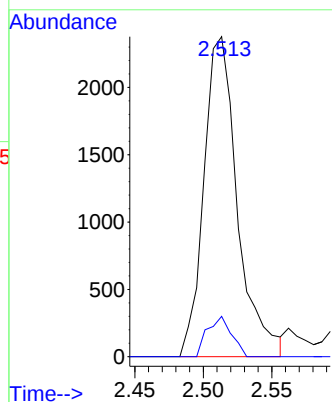
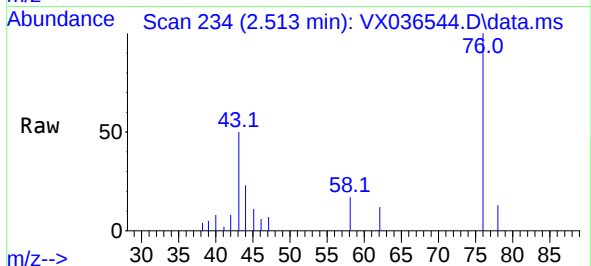




#16
Carbon Disulfide
Concen: 1.603 ug/l
RT: 2.513 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

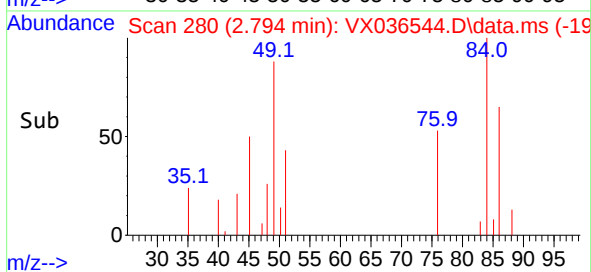
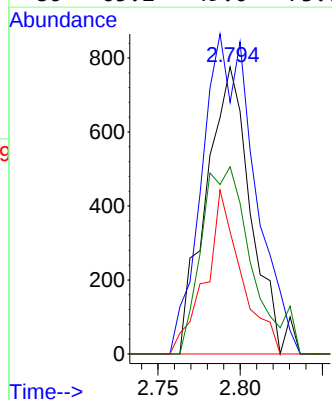
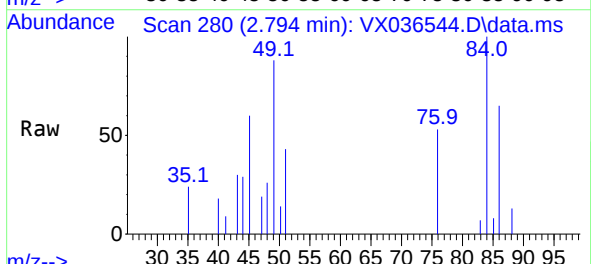
Instrument :
MSVOA_X
ClientSampleId :

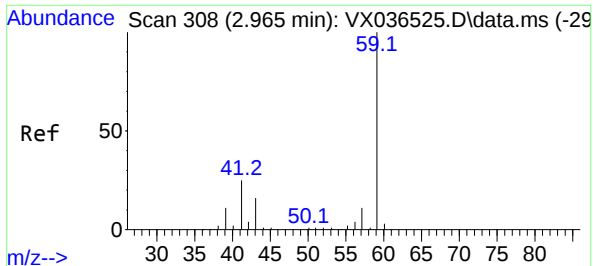
Tgt Ion: 76 Resp: 4049
Ion Ratio Lower Upper
76 100
78 12.6 8.0 12.0#



#18
Methylene Chloride
Concen: 1.149 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

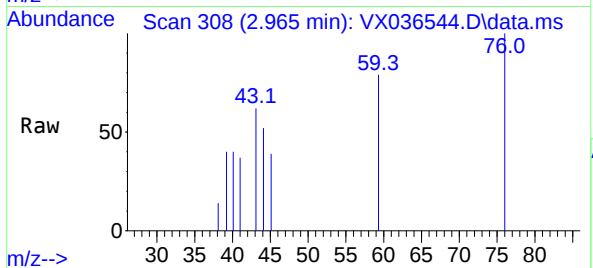
Tgt Ion: 84 Resp: 1441
Ion Ratio Lower Upper
84 100
49 71.3 95.4 143.0#
51 42.5 28.3 42.5#
86 65.2 49.0 73.6



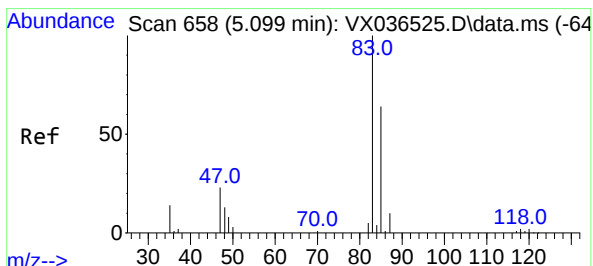
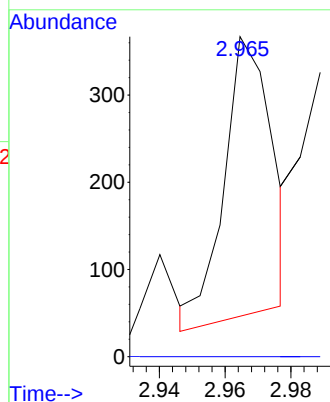
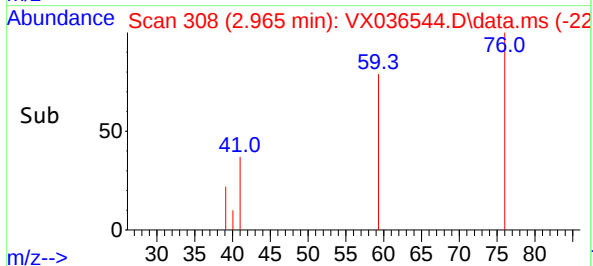


#23
tert-Butyl Alcohol
Concen: 1.023 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.000 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

Instrument :
MSVOA_X
ClientSampleId :

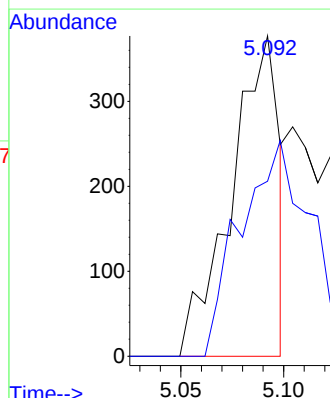
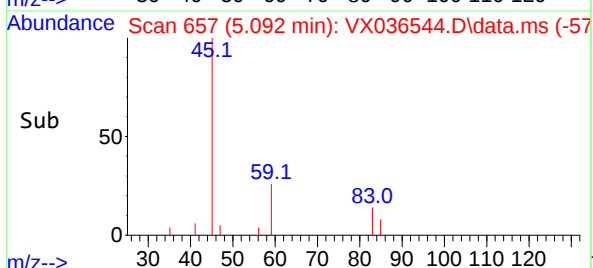
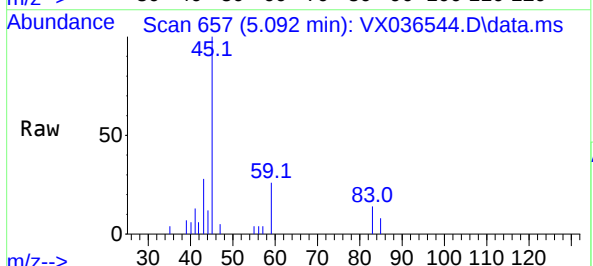


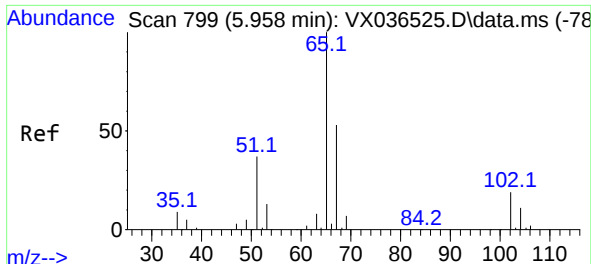
Tgt Ion: 59 Resp: 326
Ion Ratio Lower Upper
59 100
52 0.0 142.6 213.8#



#25
Chloroform
Concen: 0.270 ug/l
RT: 5.092 min Scan# 657
Delta R.T. -0.006 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

Tgt Ion: 83 Resp: 612
Ion Ratio Lower Upper
83 100
85 54.6 51.5 77.3



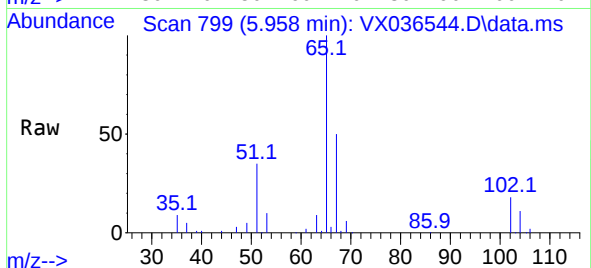


#27
 1,2-Dichloroethane-d4
 Concen: 50.062 ug/l
 RT: 5.958 min Scan# 799
 Delta R.T. -0.000 min
 Lab File: VX036544.D
 Acq: 13 Jul 2023 22:37

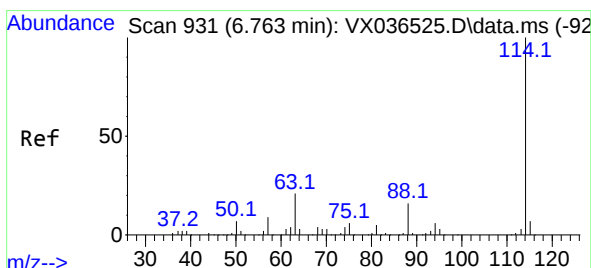
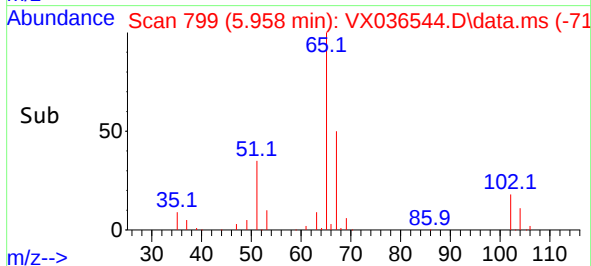
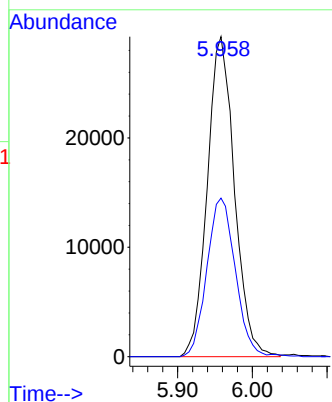
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MSVOA_X

ClientSampleId :

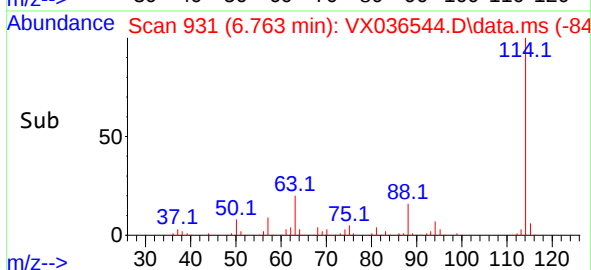
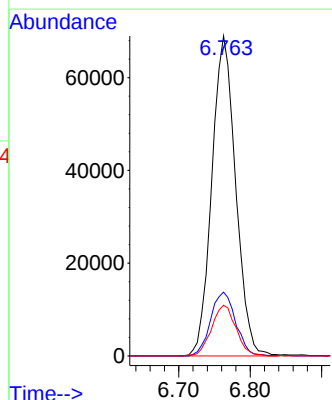
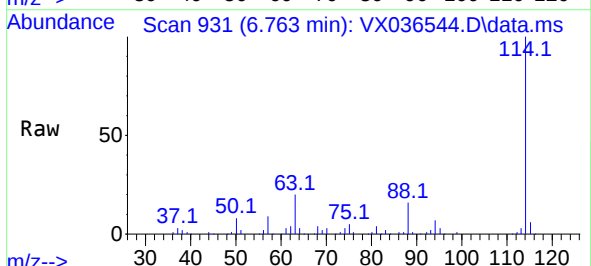


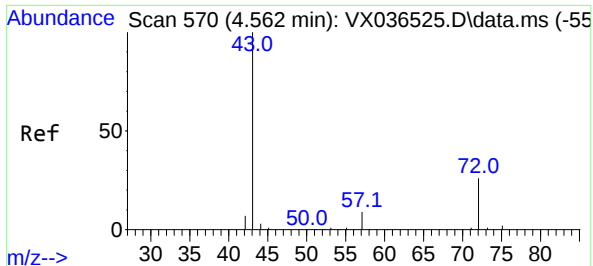
Tgt Ion: 65 Resp: 73922
 Ion Ratio Lower Upper
 65 100
 67 51.6 42.1 63.1



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. -0.000 min
 Lab File: VX036544.D
 Acq: 13 Jul 2023 22:37

Tgt Ion: 114 Resp: 159814
 Ion Ratio Lower Upper
 114 100
 63 21.0 16.6 24.8
 88 16.1 12.9 19.3





#30

2-Butanone

Concen: 57.215 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.000 min

Lab File: VX036544.D

Acq: 13 Jul 2023 22:37

Instrument :

MSVOA_X

ClientSampleId :

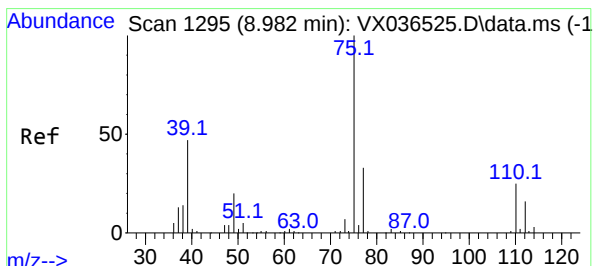
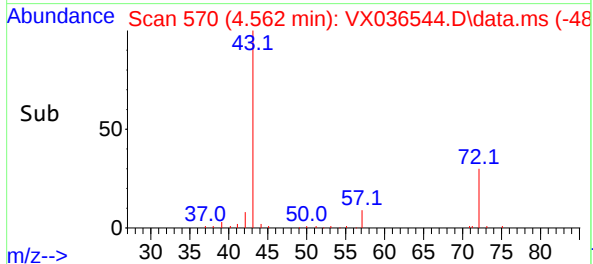
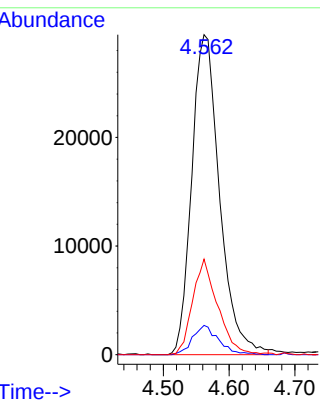
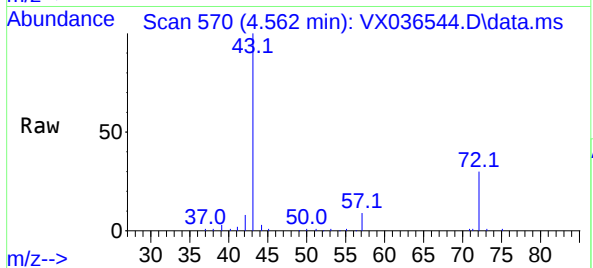
Tgt Ion: 43 Resp: 86819

Ion Ratio Lower Upper

43 100

57 8.6 6.4 9.6

72 26.8 21.6 32.4



#48

t-1,3-Dichloropropene

Concen: 4.576 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. -0.263 min

Lab File: VX036544.D

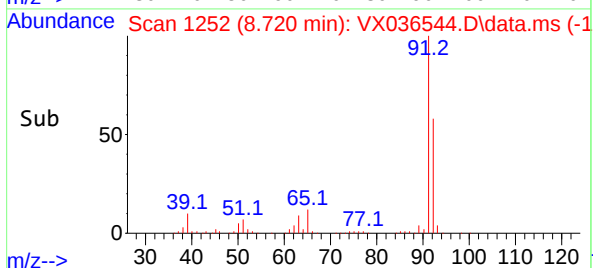
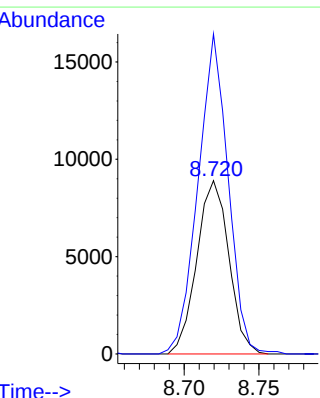
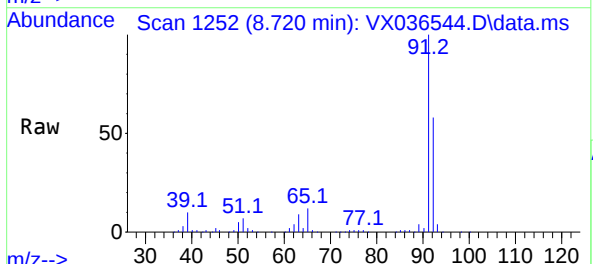
Acq: 13 Jul 2023 22:37

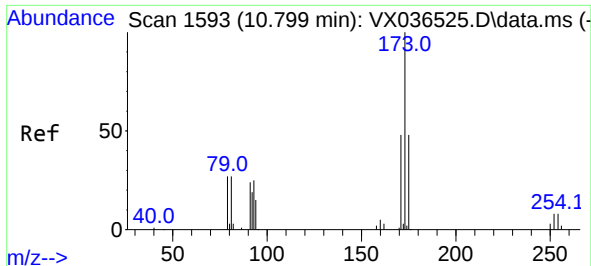
Tgt Ion: 75 Resp: 13286

Ion Ratio Lower Upper

75 100

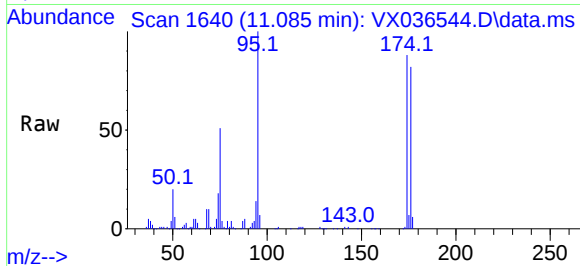
77 183.2 26.8 40.2#



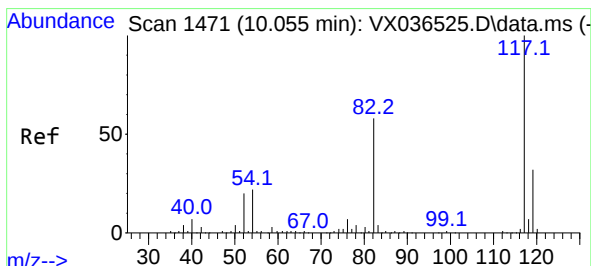
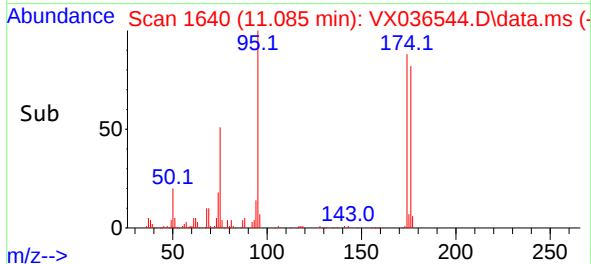
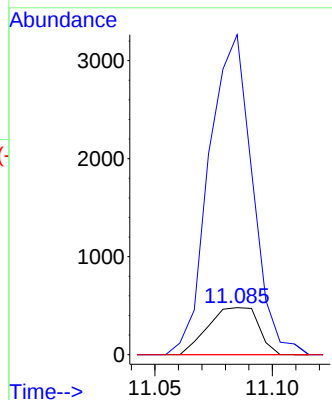


#56
Bromoform
Concen: 0.516 ug/l
RT: 11.085 min Scan# 1
Delta R.T. 0.286 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

Instrument :
MSVOA_X
ClientSampleId :

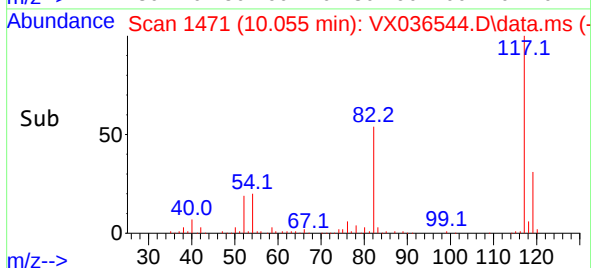
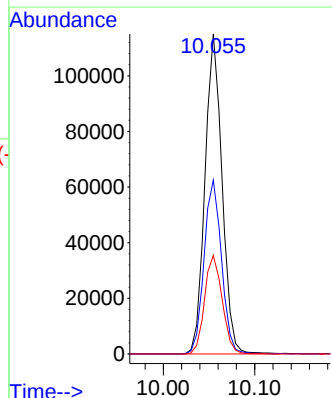
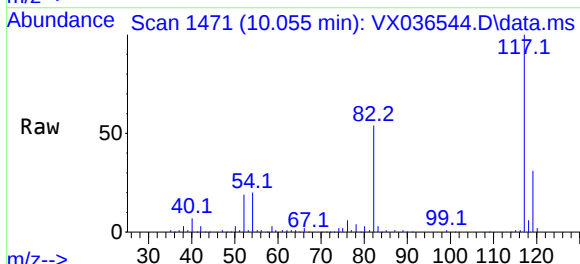


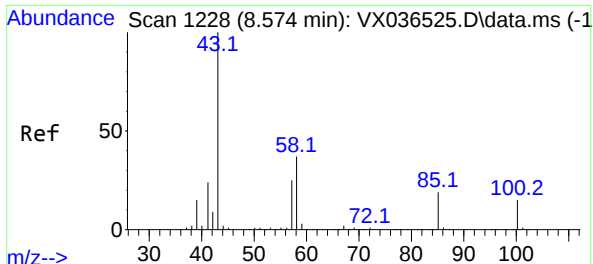
Tgt Ion:173 Resp: 718
Ion Ratio Lower Upper
173 100
175 584.4 38.1 57.1#
254 0.0 6.7 10.1#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

Tgt Ion:117 Resp: 149081
Ion Ratio Lower Upper
117 100
82 55.5 44.7 67.1
119 31.7 25.6 38.4





#58

4-Methyl-2-Pentanone

Concen: 5.304 ug/l

RT: 8.573 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX036544.D

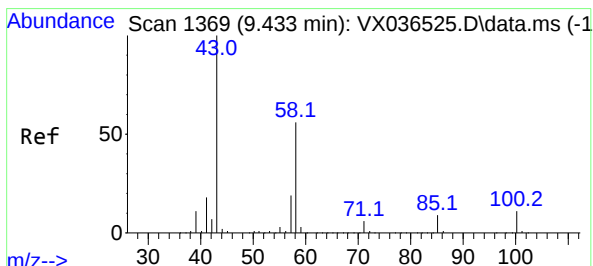
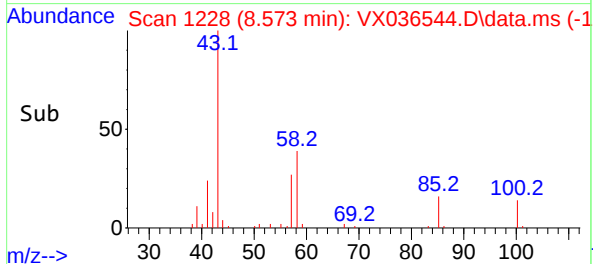
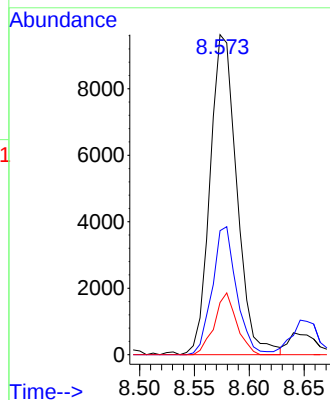
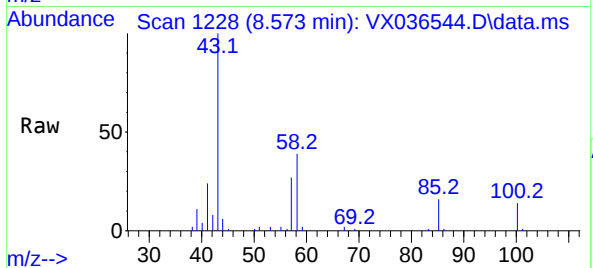
Acq: 13 Jul 2023 22:37

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:	43	Resp:	16350
Ion	Ratio	Lower	Upper
43	100		
58	36.5	30.9	46.3
85	16.0	14.4	21.6



#59

2-Hexanone

Concen: 0.597 ug/l

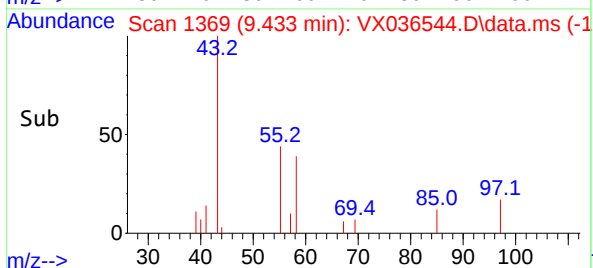
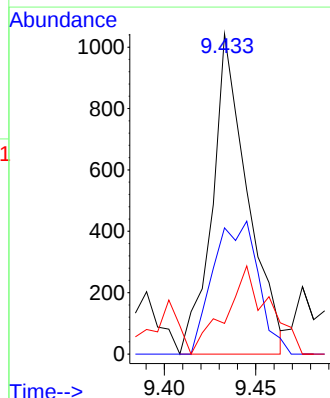
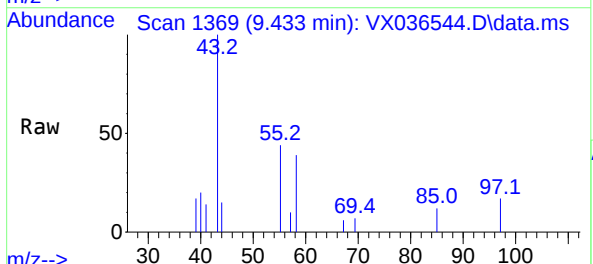
RT: 9.433 min Scan# 1369

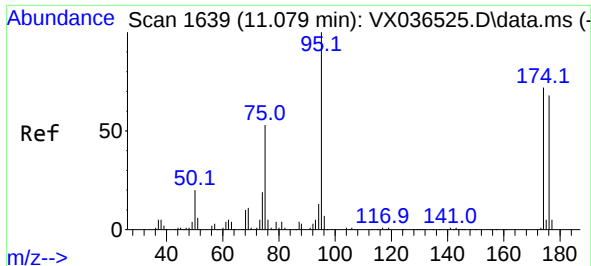
Delta R.T. -0.000 min

Lab File: VX036544.D

Acq: 13 Jul 2023 22:37

Tgt Ion:	43	Resp:	1399
Ion	Ratio	Lower	Upper
43	100		
58	53.0	43.4	65.2
57	33.4	15.1	22.7#

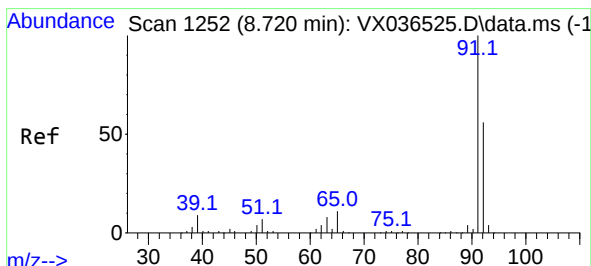
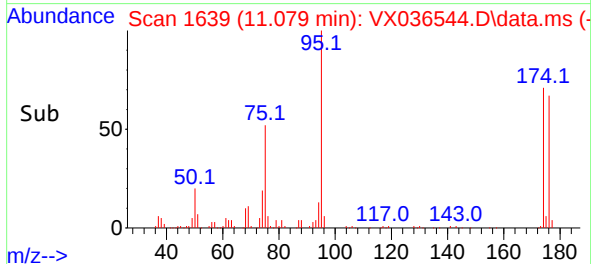
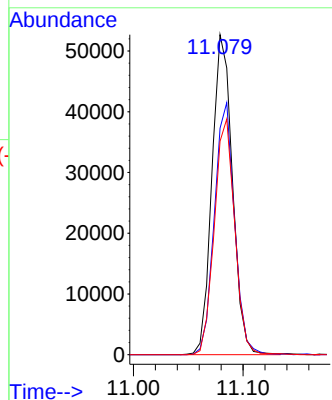
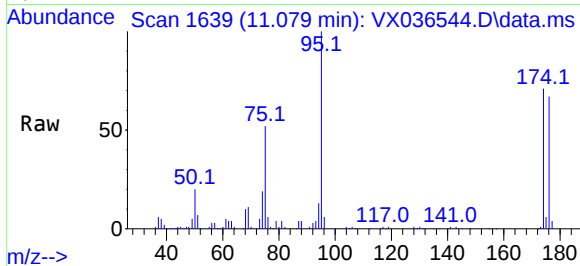




#60
4-Bromofluorobenzene
Concen: 28.232 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

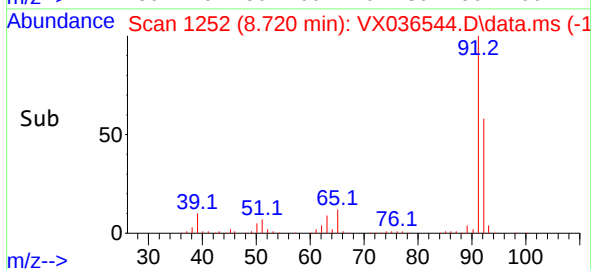
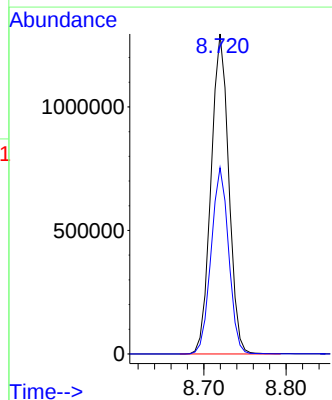
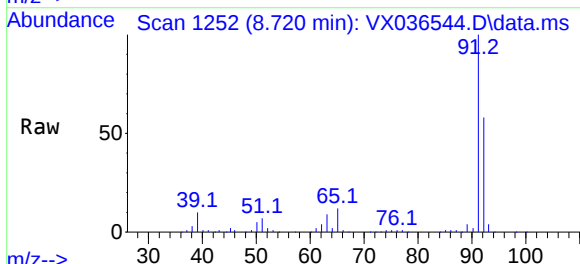
Instrument :
MSVOA_X
ClientSampleId :

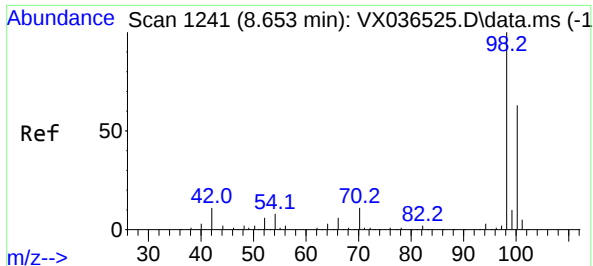
Tgt Ion: 95 Resp: 68271
Ion Ratio Lower Upper
95 100
174 77.4 60.5 90.7
176 73.5 58.2 87.4



#62
Toluene
Concen: 231.439 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

Tgt Ion: 91 Resp: 1935900
Ion Ratio Lower Upper
91 100
92 57.7 44.9 67.3





#63

Toluene-d8

Concen: 29.191 ug/l

RT: 8.646 min Scan# 11

Delta R.T. -0.007 min

Lab File: VX036544.D

Acq: 13 Jul 2023 22:37

Instrument :

MSVOA_X

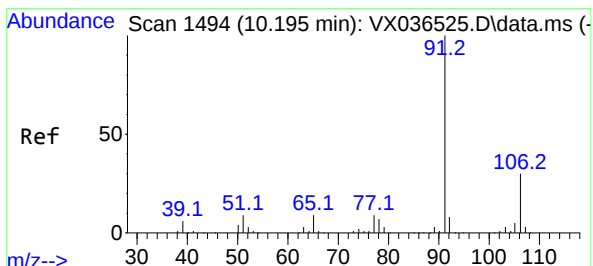
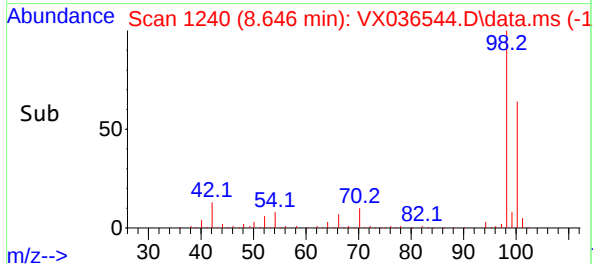
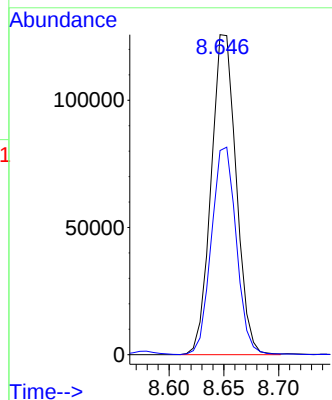
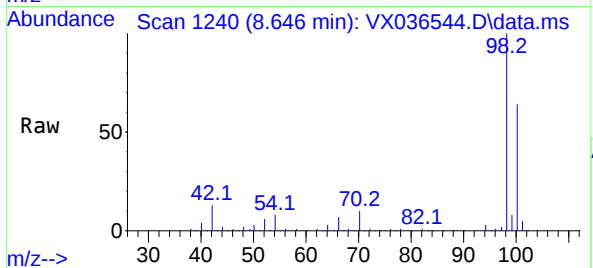
ClientSampleId :

Tgt Ion: 98 Resp: 200253

Ion Ratio Lower Upper

98 100

100 64.6 51.6 77.4



#66

Ethyl Benzene

Concen: 0.217 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. -0.000 min

Lab File: VX036544.D

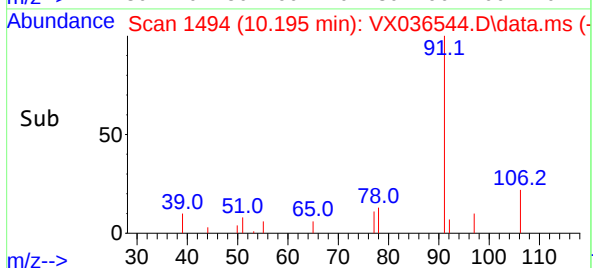
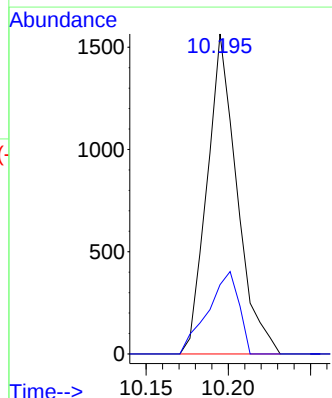
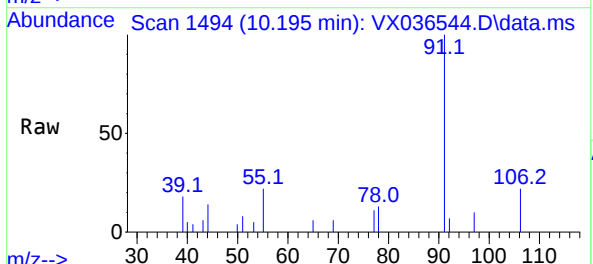
Acq: 13 Jul 2023 22:37

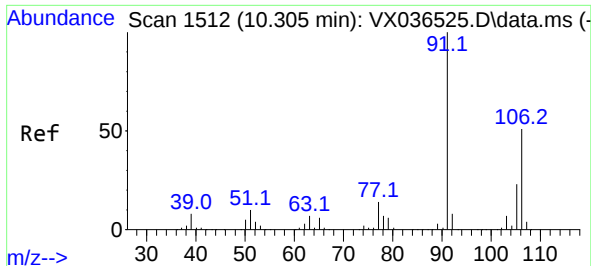
Tgt Ion: 91 Resp: 1974

Ion Ratio Lower Upper

91 100

106 21.7 24.2 36.4#

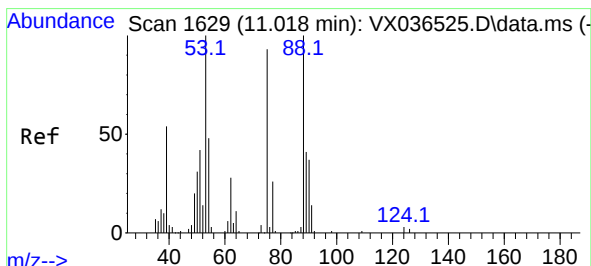
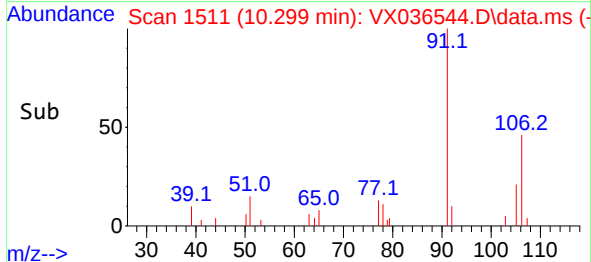
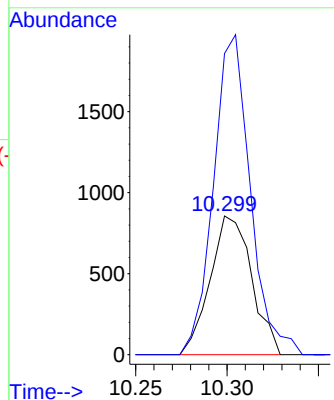
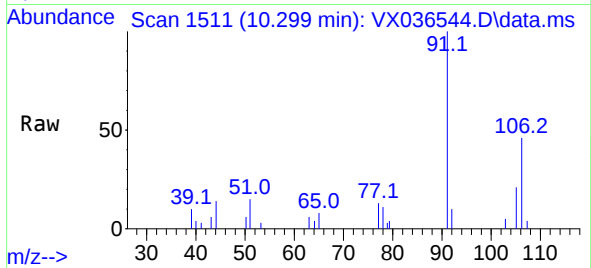




#67
m/p-Xylenes
Concen: 0.382 ug/l
RT: 10.299 min Scan# 11
Delta R.T. -0.007 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

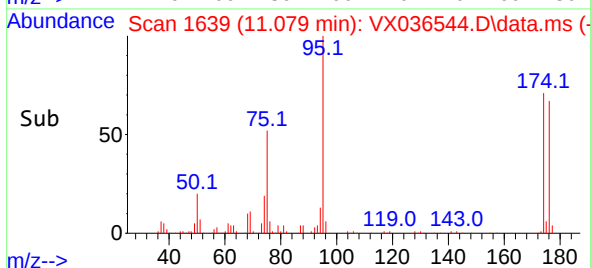
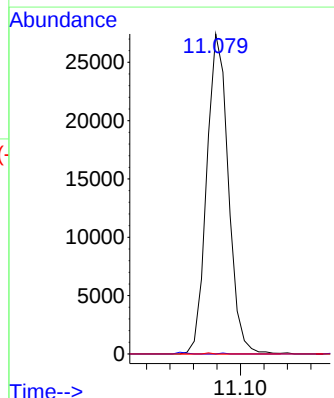
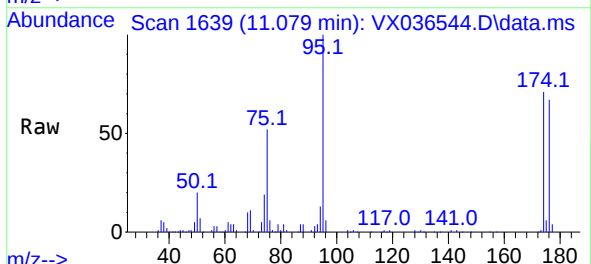
Instrument :
MSVOA_X
ClientSampleId :

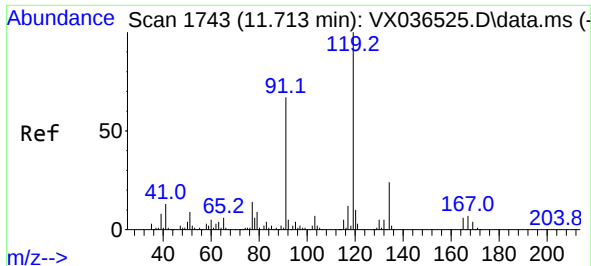
Tgt Ion:106 Resp: 1353
Ion Ratio Lower Upper
106 100
91 205.0 160.5 240.7



#77
t-1,4-Dichloro-2-butene
Concen: 35.995 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

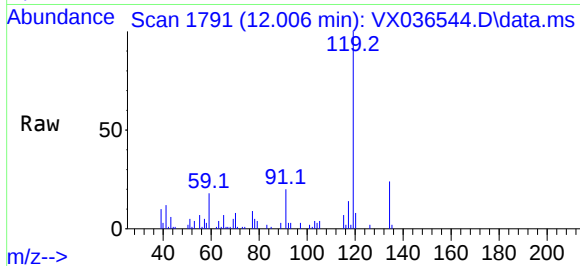
Tgt Ion: 75 Resp: 35021
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.1 66.1#



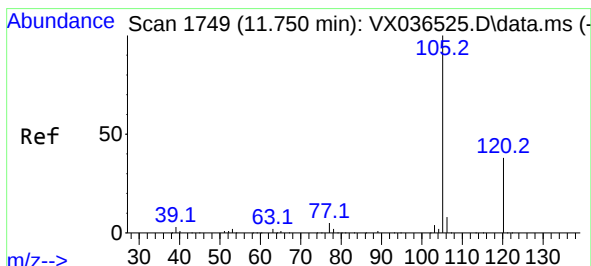
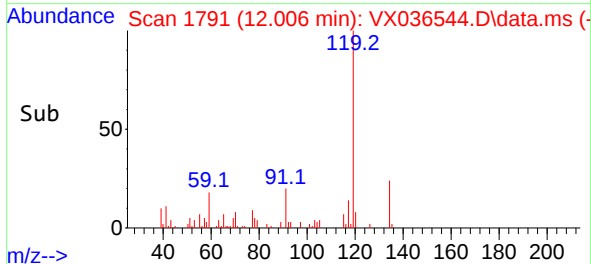
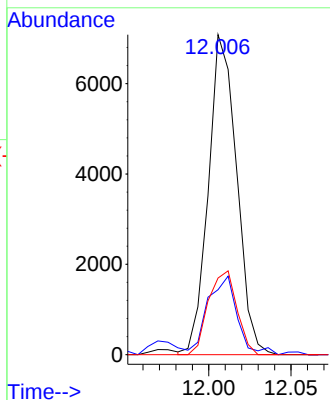


#79
tert-butylbenzene
Concen: 1.185 ug/l
RT: 12.006 min Scan# 11
Delta R.T. 0.292 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

Instrument :
MSVOA_X
ClientSampleId :

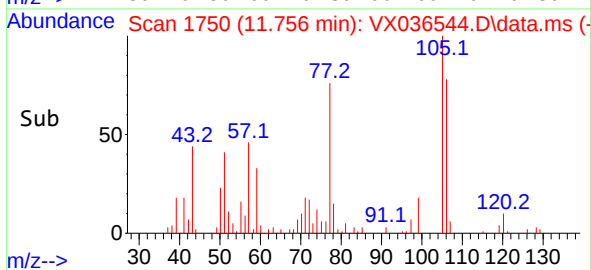
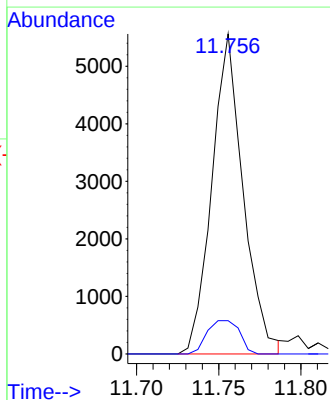
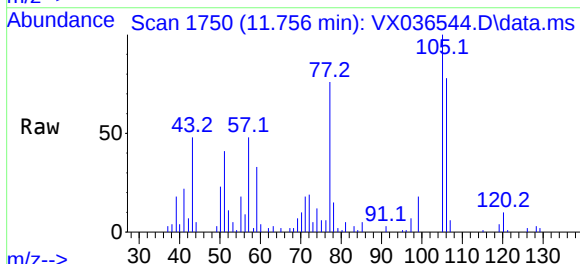


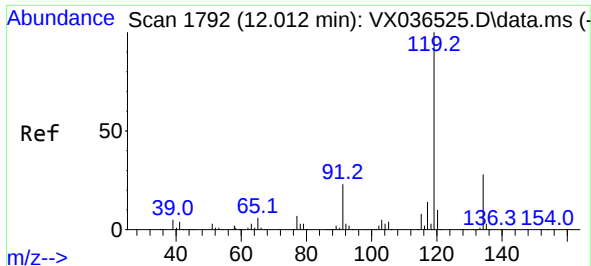
Tgt Ion:119 Resp: 8466
Ion Ratio Lower Upper
119 100
91 24.8 0.0 124.4
134 26.3 0.0 47.2



#80
1,2,4-Trimethylbenzene
Concen: 0.988 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX036544.D
Acq: 13 Jul 2023 22:37

Tgt Ion:105 Resp: 7367
Ion Ratio Lower Upper
105 100
120 10.8 0.0 90.2





#82

p-Isopropyltoluene

Concen: 1.131 ug/l

RT: 12.006 min Scan# 119

Delta R.T. -0.006 min

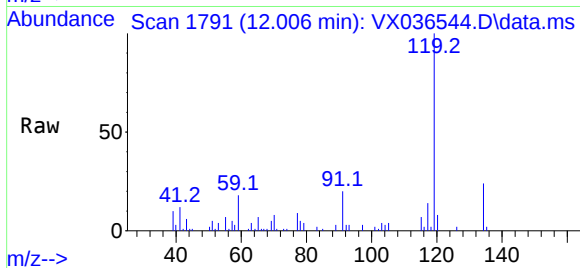
Lab File: VX036544.D

Acq: 13 Jul 2023 22:37

Instrument :

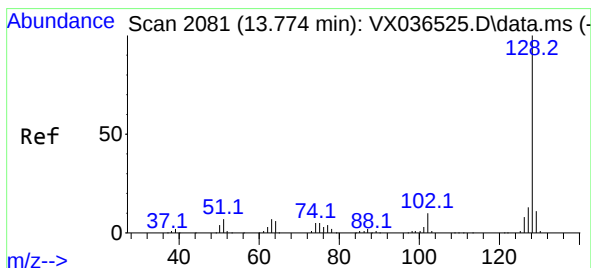
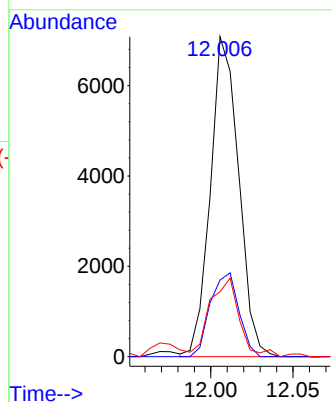
MSVOA_X

ClientSampleId :



Tgt Ion:119 Resp: 8466

Ion	Ratio	Lower	Upper
119	100		
134	26.3	0.0	53.2
91	24.8	0.0	49.4



#91

Naphthalene

Concen: 0.338 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX036544.D

Acq: 13 Jul 2023 22:37

Tgt Ion:128 Resp: 3025

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	13.1	8.7	13.1#

