

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051624\
 Data File : VX041559.D
 Acq On : 16 May 2024 13:34
 Operator : JC/MD
 Sample : P2506-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 17 02:39:03 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

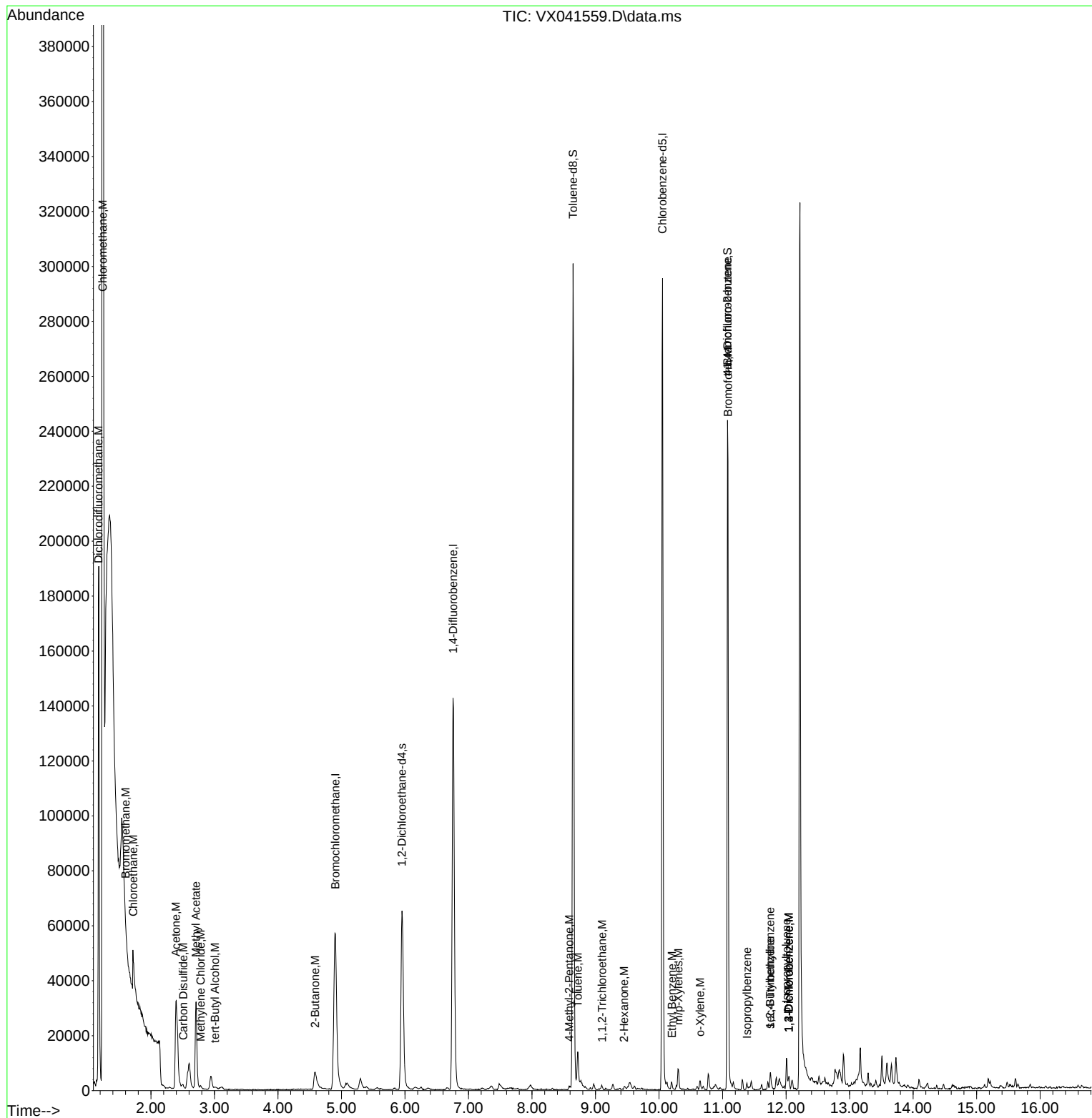
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.904	128	28439	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	152912	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	140542	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	66048	29.492	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.300%
60) 4-Bromofluorobenzene	11.079	95	62078	28.295	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.300%
63) Toluene-d8	8.647	98	176807	29.348	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.833%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	6806	4.576	ug/l	98
3) Chloromethane	1.240	50	49078	30.130	ug/l #	43
5) Bromomethane	1.599	94	469	0.430	ug/l	90
6) Chloroethane	1.721	64	19645	22.657	ug/l #	43
12) Methyl Acetate	2.709	43	38333	17.493	ug/l	97
15) Acetone	2.392	58	11454	44.371	ug/l	99
16) Carbon Disulfide	2.508	76	1285	0.391	ug/l #	94
18) Methylene Chloride	2.782	84	429	0.248	ug/l #	75
23) tert-Butyl Alcohol	3.008	59	418	1.022	ug/l #	100
30) 2-Butanone	4.587	43	14435	10.752	ug/l #	82
50) 1,1,2-Trichloroethane	9.104	97	534	0.323	ug/l #	14
56) Bromoform	11.085	173	680	0.451	ug/l #	1
58) 4-Methyl-2-Pentanone	8.586	43	996	0.388	ug/l #	95
59) 2-Hexanone	9.452	43	1203	0.588	ug/l #	62
62) Toluene	8.720	91	9446	1.351	ug/l	98
66) Ethyl Benzene	10.201	91	1983	0.255	ug/l #	86
67) m/p-Xylenes	10.305	106	2265	0.746	ug/l	97
68) o-Xylene	10.646	106	849	0.278	ug/l	99
70) Isopropylbenzene	11.384	105	1810	0.234	ug/l	99
77) t-1,4-Dichloro-2-butene	11.079	75	31552	41.952	ug/l #	1
80) 1,2,4-Trimethylbenzene	11.750	105	3344	0.506	ug/l	97
81) sec-Butylbenzene	11.750	105	3344	0.408	ug/l	66
82) p-Isopropyltoluene	12.006	119	4720	0.658	ug/l	96
83) 1,3-Dichlorobenzene	12.043	146	1914	0.470	ug/l	95
84) 1,4-Dichlorobenzene	12.043	146	1914	0.465	ug/l	93
87) 1,2-Dichlorobenzene	12.043	146	1914	0.461	ug/l	93

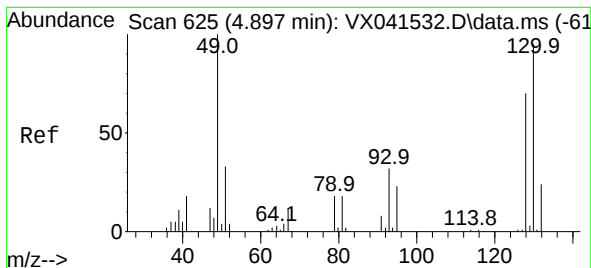
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051624\
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MSVOA_X
ClientSampleId :

Quant Time: May 17 02:39:03 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

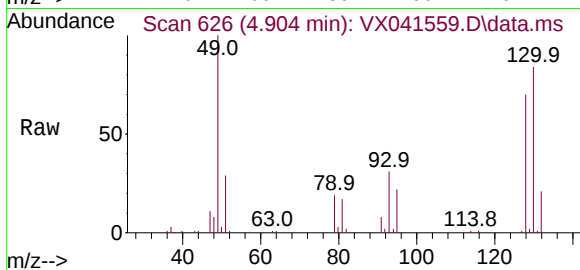
Lab File: VX041559.D

Acq: 16 May 2024 13:34

Instrument :

MSVOA_X

ClientSampleId :



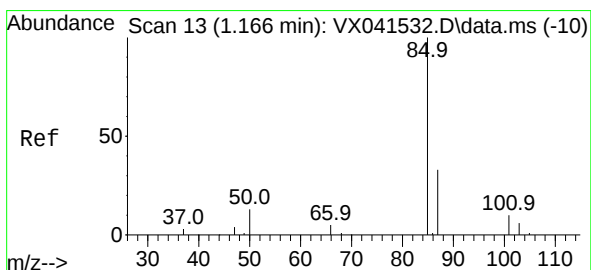
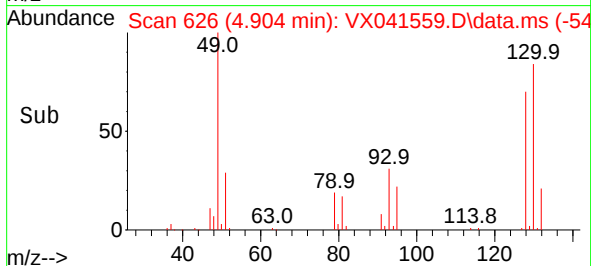
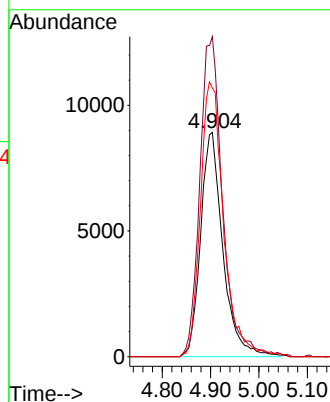
Tgt Ion:128 Resp: 28439

Ion Ratio Lower Upper

128 100

49 142.0 0.0 361.5

130 126.5 0.0 324.3



#2

Dichlorodifluoromethane

Concen: 4.576 ug/l

RT: 1.173 min Scan# 14

Delta R.T. 0.006 min

Lab File: VX041559.D

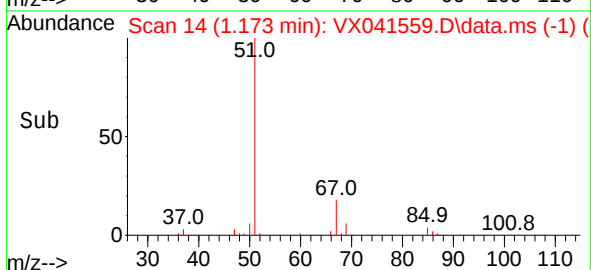
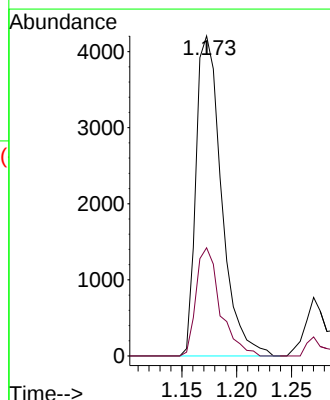
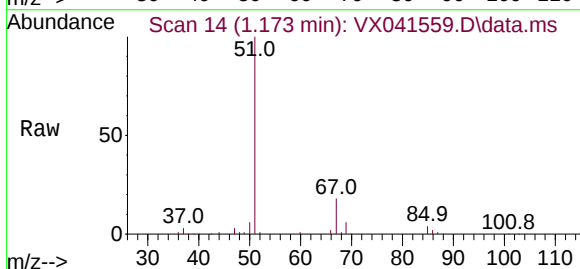
Acq: 16 May 2024 13:34

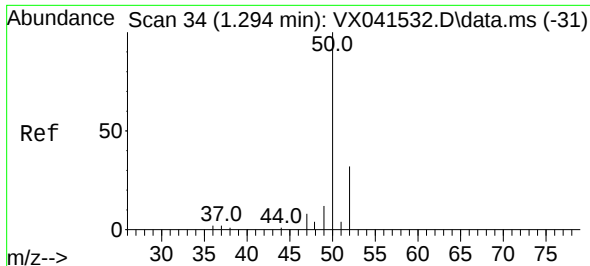
Tgt Ion: 85 Resp: 6806

Ion Ratio Lower Upper

85 100

87 33.8 16.4 49.1

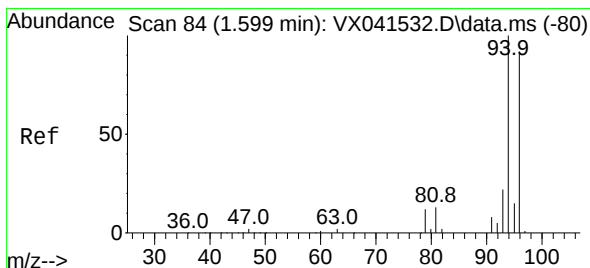
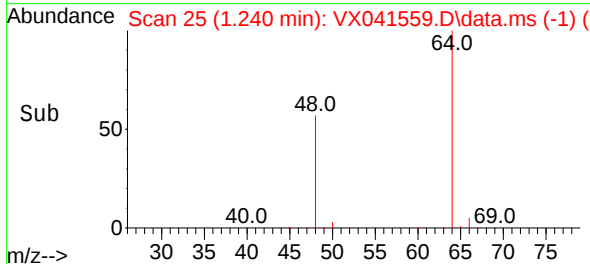
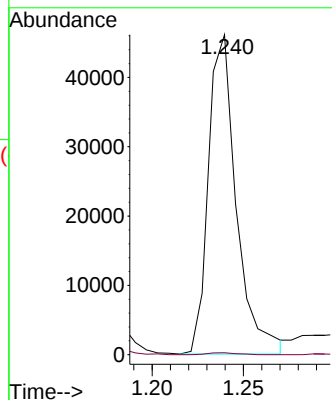
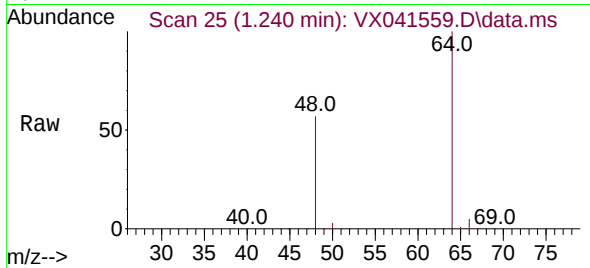




#3
Chloromethane
Concen: 30.130 ug/l
RT: 1.240 min Scan# 24
Delta R.T. -0.055 min
Lab File: VX041559.D
Acq: 16 May 2024 13:34

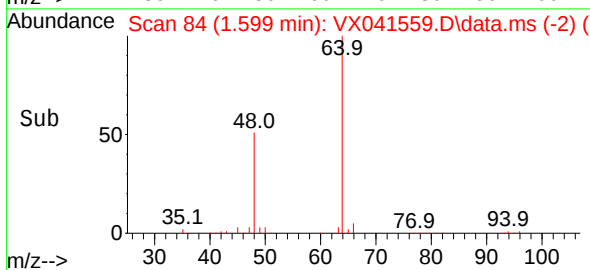
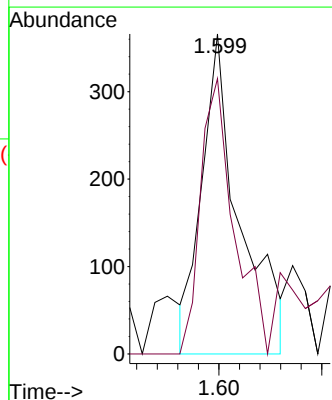
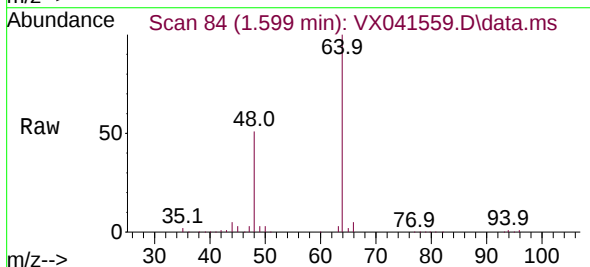
Instrument :
MSVOA_X
ClientSampleId :

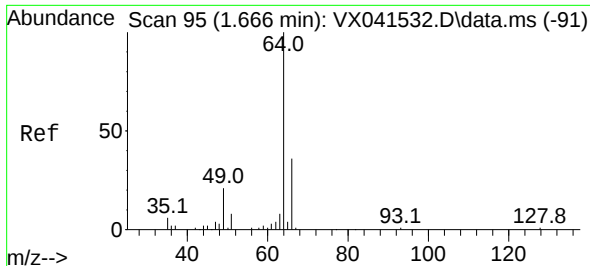
Tgt Ion: 50 Resp: 49078
Ion Ratio Lower Upper
50 100
52 0.6 25.8 38.8#



#5
Bromomethane
Concen: 0.430 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX041559.D
Acq: 16 May 2024 13:34

Tgt Ion: 94 Resp: 469
Ion Ratio Lower Upper
94 100
96 101.6 73.9 110.9

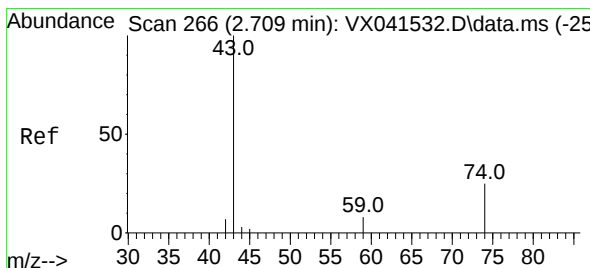
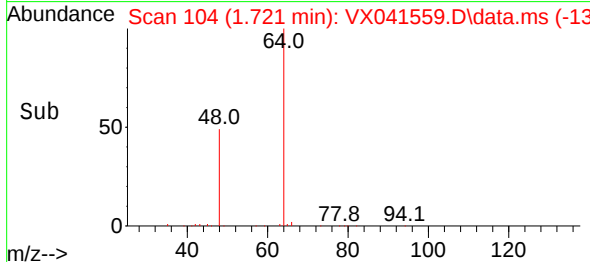
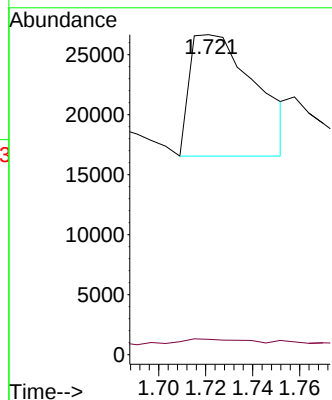
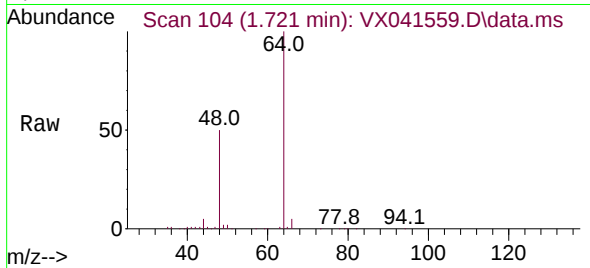




#6
Chloroethane
Concen: 22.657 ug/l
RT: 1.721 min Scan# 104
Delta R.T. 0.055 min
Lab File: VX041559.D
Acq: 16 May 2024 13:34

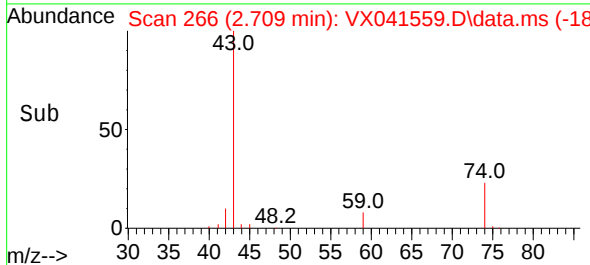
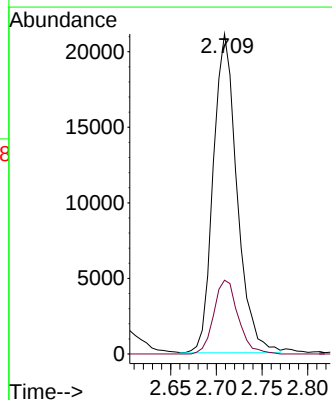
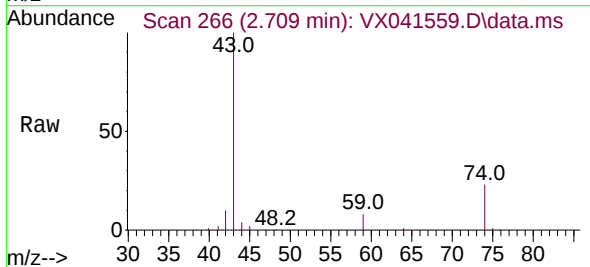
Instrument :
MSVOA_X
ClientSampleId :

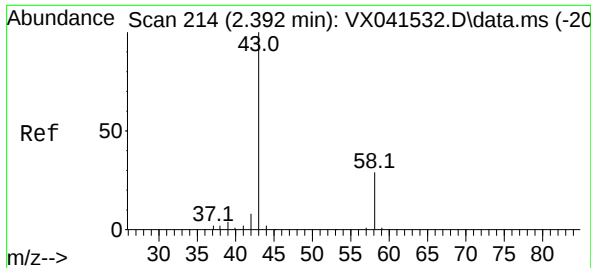
Tgt Ion: 64 Resp: 19645
Ion Ratio Lower Upper
64 100
66 2.0 28.6 42.8#



#12
Methyl Acetate
Concen: 17.493 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX041559.D
Acq: 16 May 2024 13:34

Tgt Ion: 43 Resp: 38333
Ion Ratio Lower Upper
43 100
74 23.3 19.9 29.9

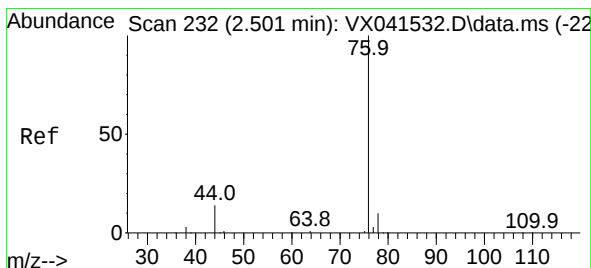
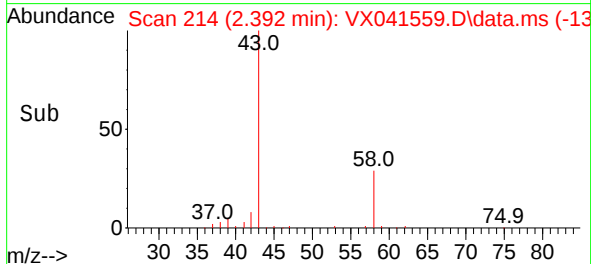
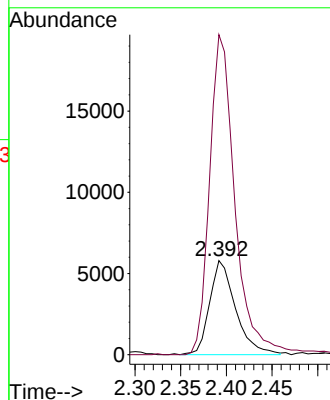
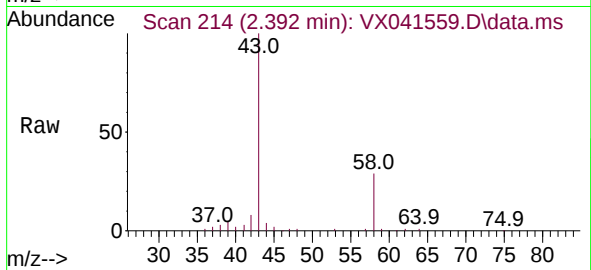




#15
Acetone
Concen: 44.371 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX041559.D
Acq: 16 May 2024 13:34

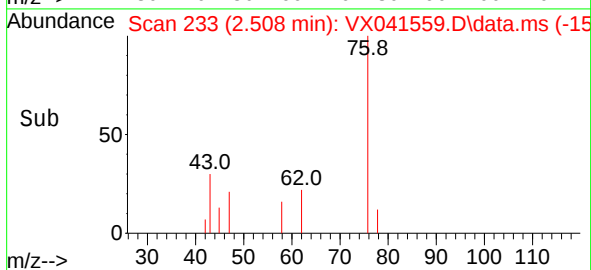
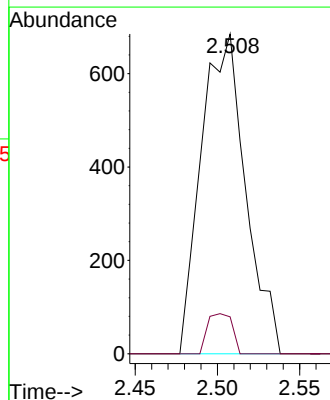
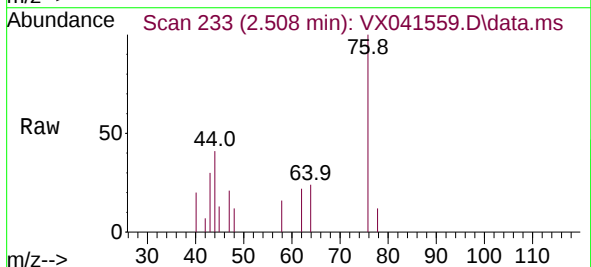
Instrument :
MSVOA_X
ClientSampleId :

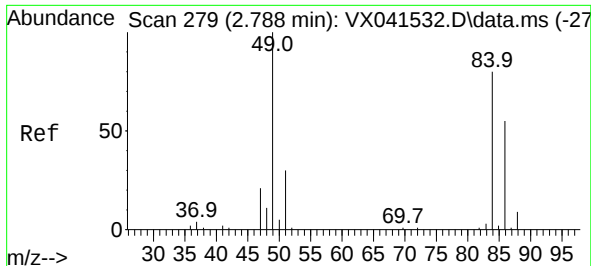
Tgt Ion: 58 Resp: 11454
Ion Ratio Lower Upper
58 100
43 340.3 274.0 411.0



#16
Carbon Disulfide
Concen: 0.391 ug/l
RT: 2.508 min Scan# 233
Delta R.T. 0.006 min
Lab File: VX041559.D
Acq: 16 May 2024 13:34

Tgt Ion: 76 Resp: 1285
Ion Ratio Lower Upper
76 100
78 11.5 7.6 11.4#





#18

Methylene Chloride

Concen: 0.248 ug/l

RT: 2.782 min Scan# 21

Delta R.T. -0.006 min

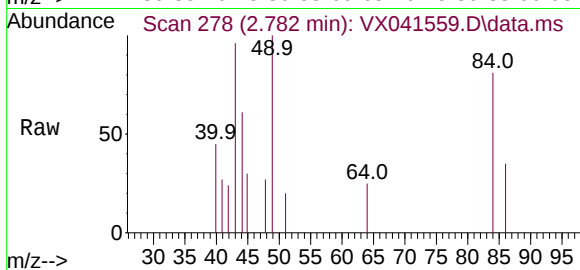
Lab File: VX041559.D

Acq: 16 May 2024 13:34

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 84 Resp: 429

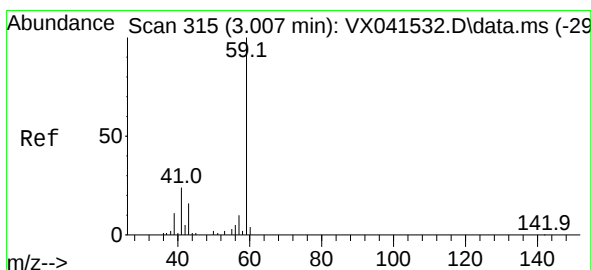
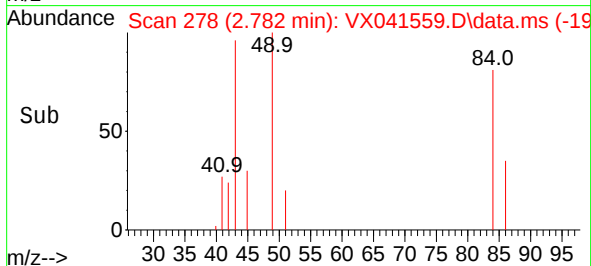
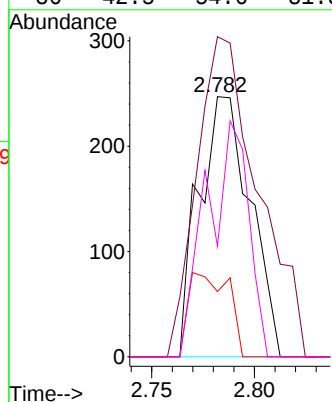
Ion Ratio Lower Upper

84 100

49 100.0 99.8 149.8

51 25.1 30.2 45.4#

86 42.5 54.6 81.8#



#23

tert-Butyl Alcohol

Concen: 1.022 ug/l

RT: 3.008 min Scan# 315

Delta R.T. 0.000 min

Lab File: VX041559.D

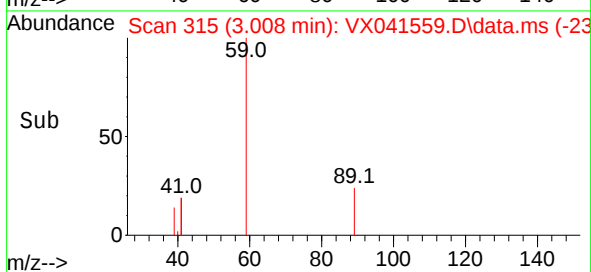
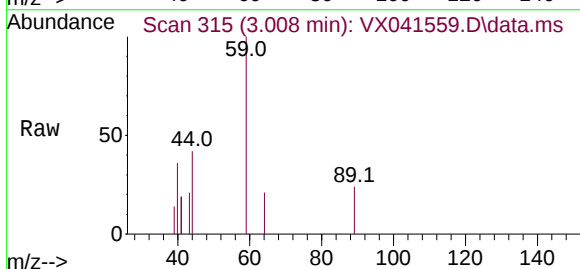
Acq: 16 May 2024 13:34

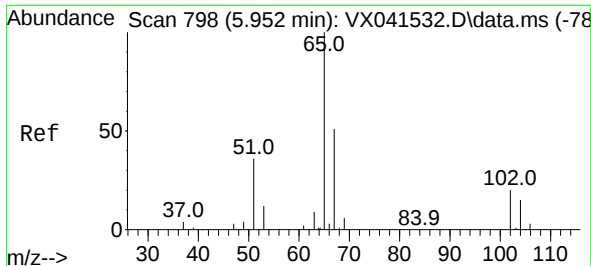
Tgt Ion: 59 Resp: 418

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

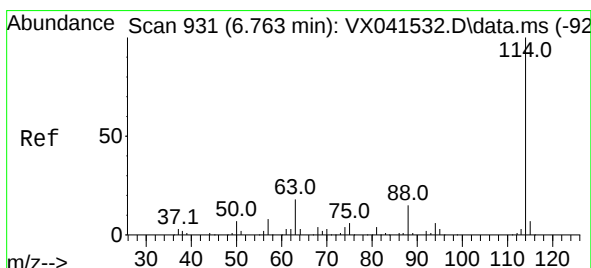
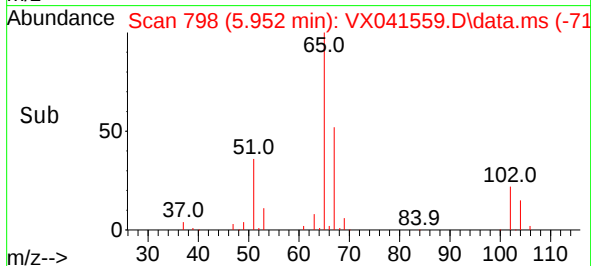
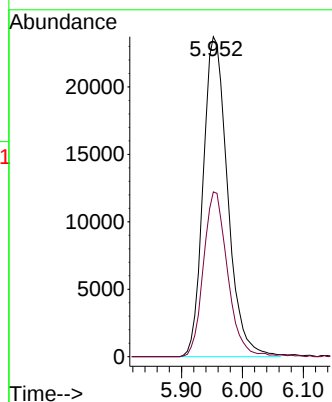
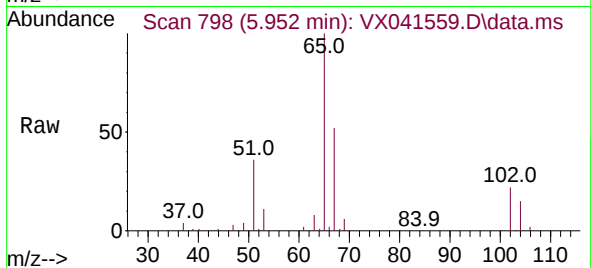




#27
 1,2-Dichloroethane-d4
 Concen: 29.492 ug/l
 RT: 5.952 min Scan# 798
 Delta R.T. 0.000 min
 Lab File: VX041559.D
 Acq: 16 May 2024 13:34

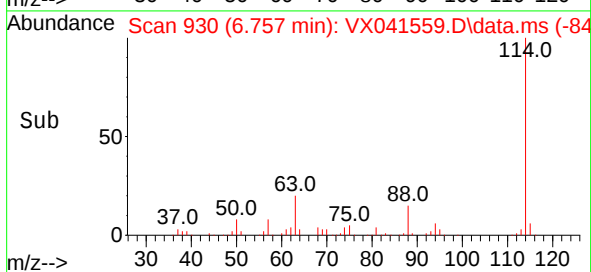
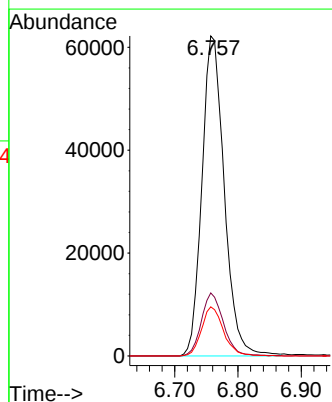
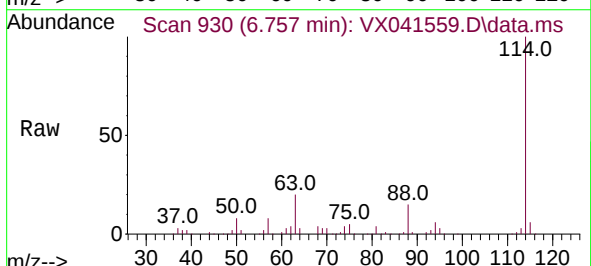
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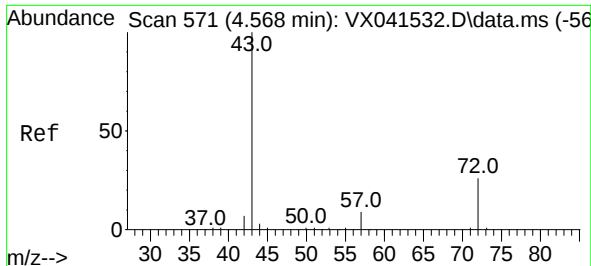
Tgt Ion: 65 Resp: 66048
 Ion Ratio Lower Upper
 65 100
 67 50.3 40.8 61.2



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.757 min Scan# 930
 Delta R.T. -0.006 min
 Lab File: VX041559.D
 Acq: 16 May 2024 13:34

Tgt Ion: 114 Resp: 152912
 Ion Ratio Lower Upper
 114 100
 63 19.4 15.4 23.0
 88 14.9 12.2 18.2

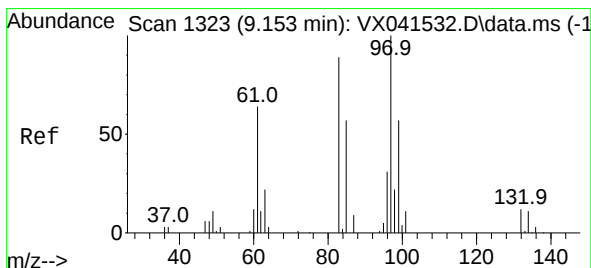
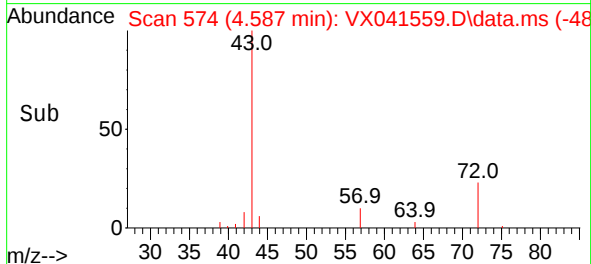
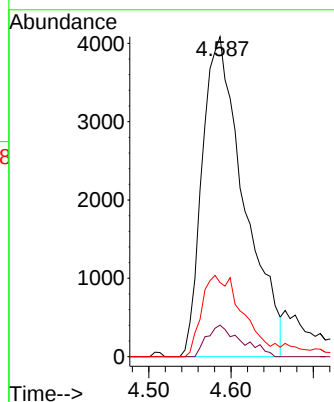
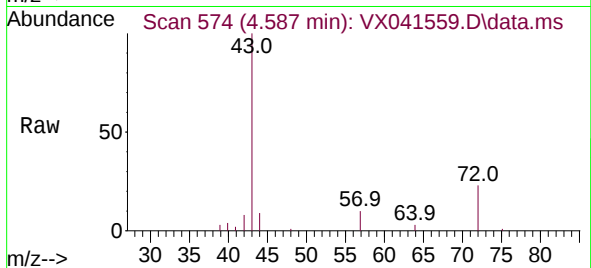




#30
2-Butanone
Concen: 10.752 ug/l
RT: 4.587 min Scan# 51
Delta R.T. 0.018 min
Lab File: VX041559.D
Acq: 16 May 2024 13:34

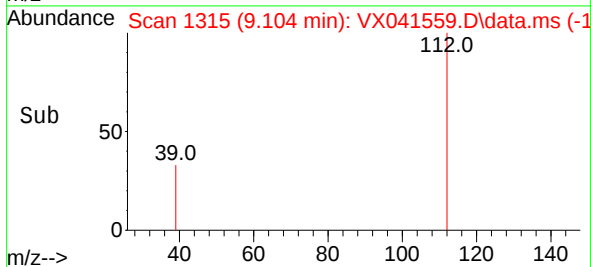
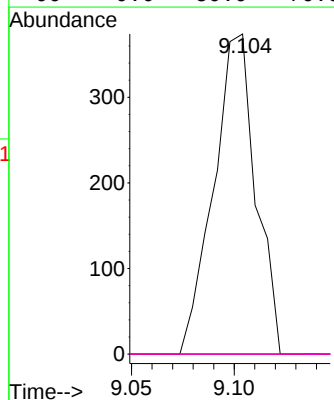
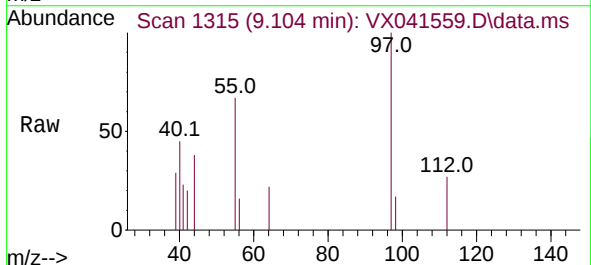
Instrument :
MSVOA_X
ClientSampleId :

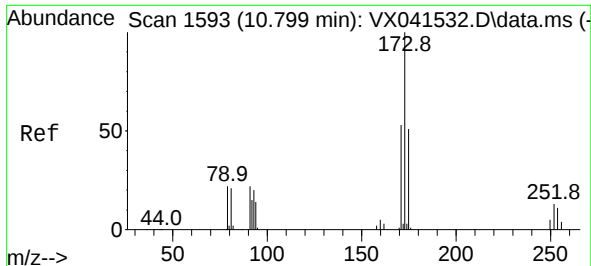
Tgt Ion: 43 Resp: 14435
Ion Ratio Lower Upper
43 100
57 8.1 6.6 10.0
72 14.1 20.7 31.1#



#50
1,1,2-Trichloroethane
Concen: 0.323 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.049 min
Lab File: VX041559.D
Acq: 16 May 2024 13:34

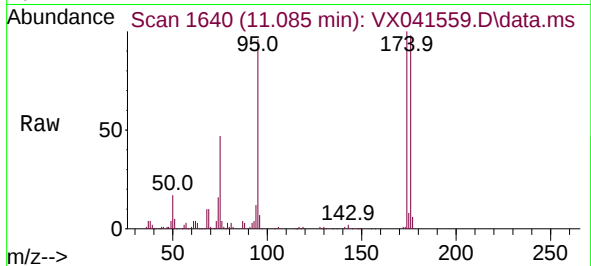
Tgt Ion: 97 Resp: 534
Ion Ratio Lower Upper
97 100
83 0.0 71.3 106.9#
85 0.0 45.7 68.5#
99 0.0 50.9 76.3#



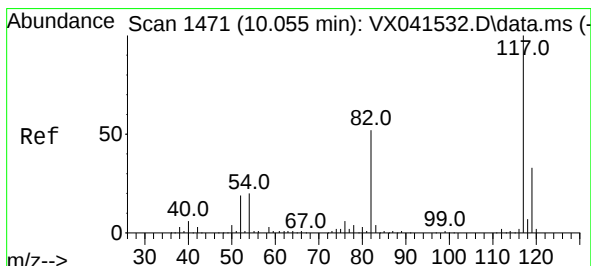
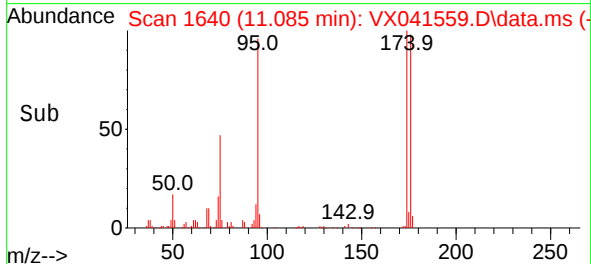
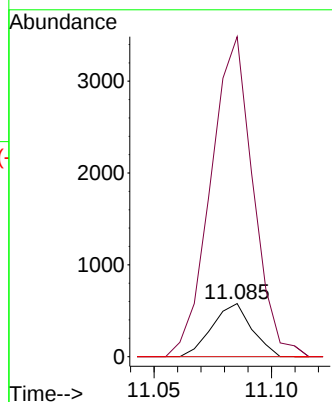


#56
Bromoform
Concen: 0.451 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.287 min
Lab File: VX041559.D
Acq: 16 May 2024 13:34

Instrument :
MSVOA_X
ClientSampleId :

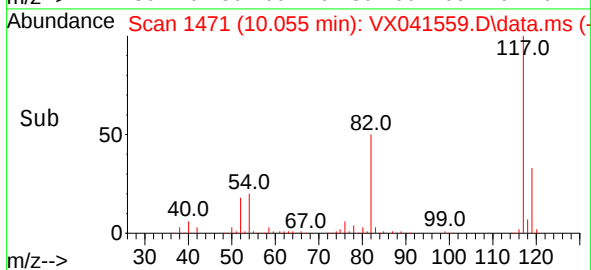
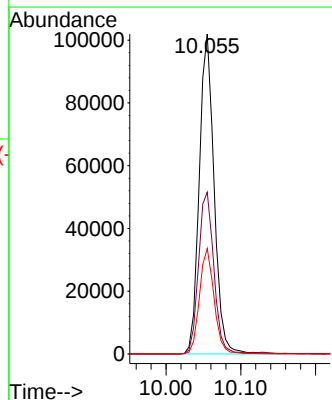
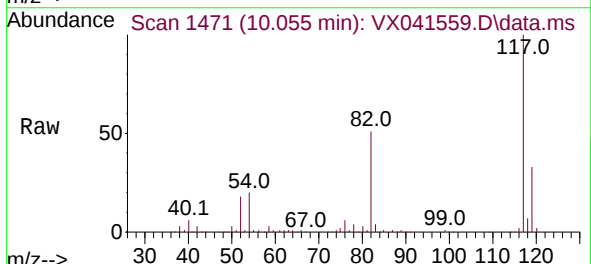


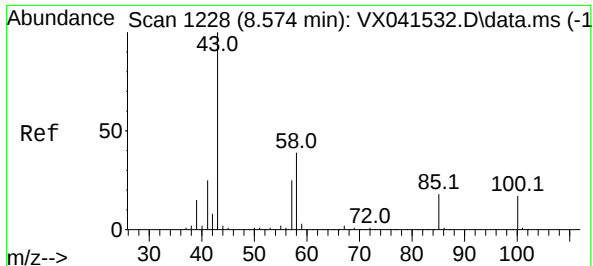
Tgt Ion:173 Resp: 680
Ion Ratio Lower Upper
173 100
175 644.9 39.0 58.6#
254 0.0 10.3 15.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX041559.D
Acq: 16 May 2024 13:34

Tgt Ion:117 Resp: 140542
Ion Ratio Lower Upper
117 100
82 52.1 41.7 62.5
119 32.4 25.7 38.5





#58

4-Methyl-2-Pentanone

Concen: 0.388 ug/l

RT: 8.586 min Scan# 11

Delta R.T. 0.012 min

Lab File: VX041559.D

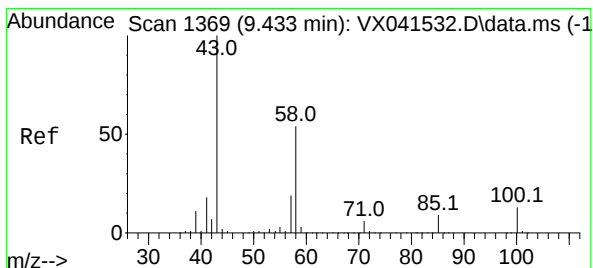
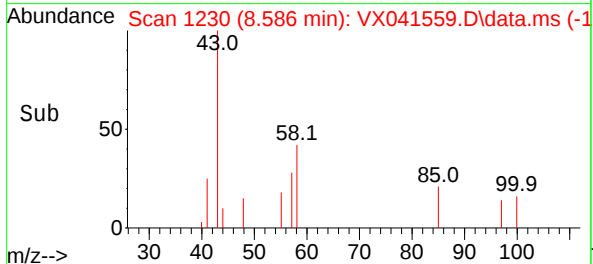
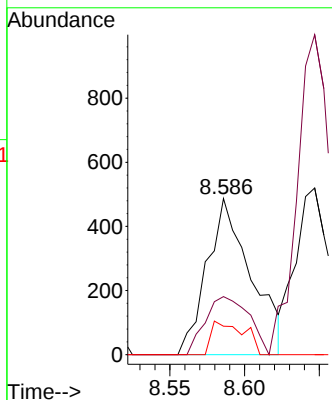
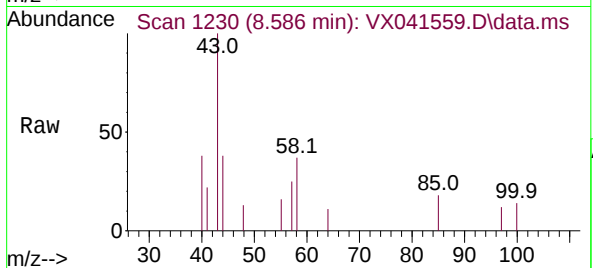
Acq: 16 May 2024 13:34

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:	43	Resp:	996
Ion	Ratio	Lower	Upper
43	100		
58	36.9	30.2	45.4
85	12.7	14.6	21.8#



#59

2-Hexanone

Concen: 0.588 ug/l

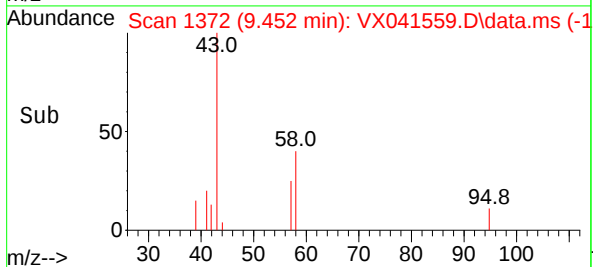
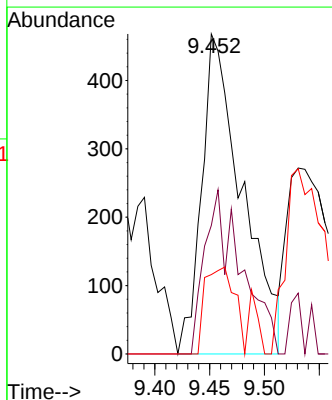
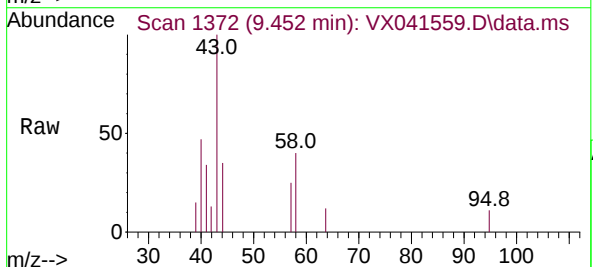
RT: 9.452 min Scan# 1372

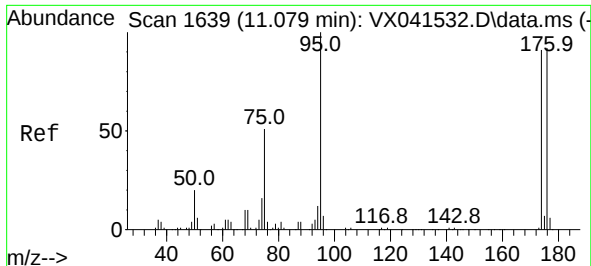
Delta R.T. 0.018 min

Lab File: VX041559.D

Acq: 16 May 2024 13:34

Tgt Ion:	43	Resp:	1203
Ion	Ratio	Lower	Upper
43	100		
58	24.0	42.3	63.5#
57	4.4	15.1	22.7#





#60

4-Bromofluorobenzene

Concen: 28.295 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX041559.D

Acq: 16 May 2024 13:34

Instrument :

MSVOA_X

ClientSampleId :

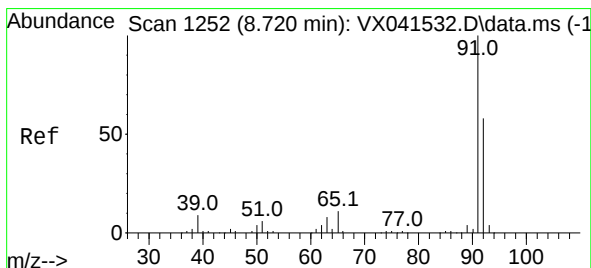
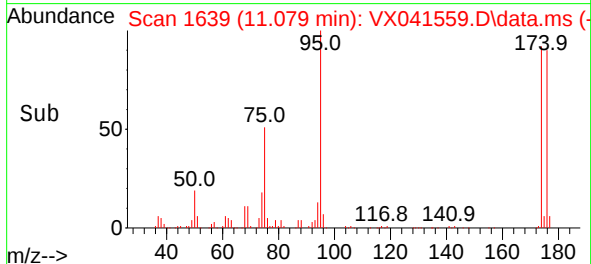
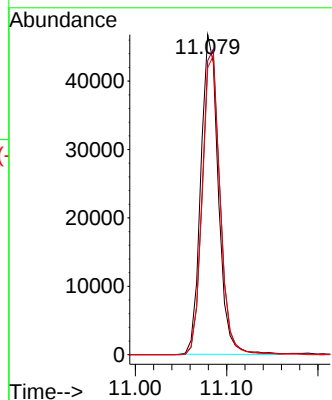
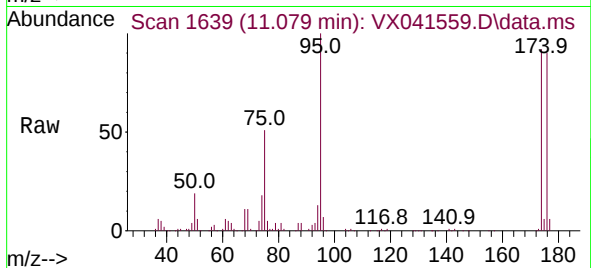
Tgt Ion: 95 Resp: 62078

Ion Ratio Lower Upper

95 100

174 96.4 76.6 115.0

176 95.3 75.4 113.0



#62

Toluene

Concen: 1.351 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX041559.D

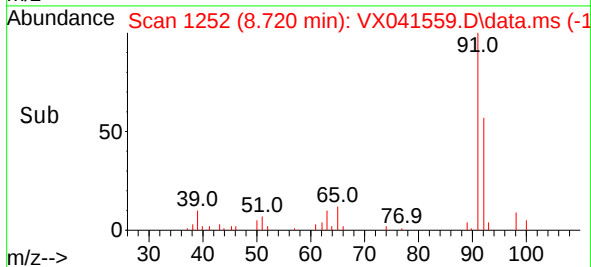
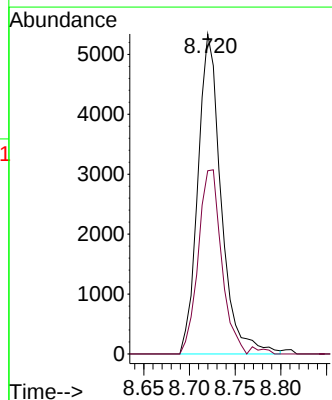
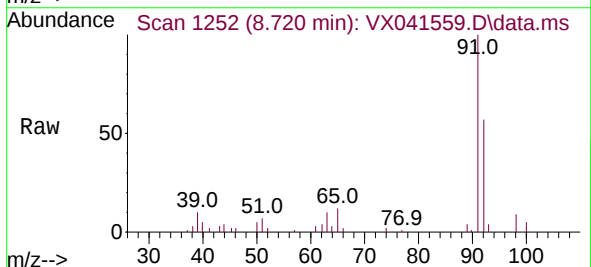
Acq: 16 May 2024 13:34

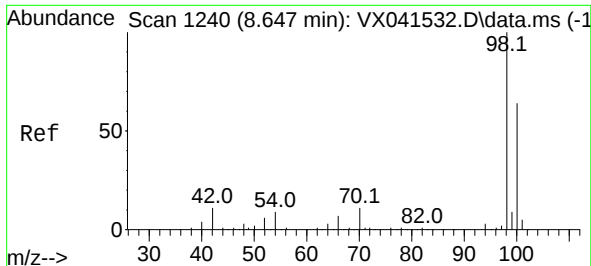
Tgt Ion: 91 Resp: 9446

Ion Ratio Lower Upper

91 100

92 57.6 47.0 70.6





#63

Toluene-d8

Concen: 29.348 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX041559.D

Acq: 16 May 2024 13:34

Instrument :

MSVOA_X

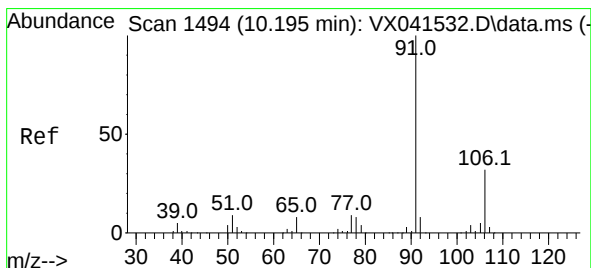
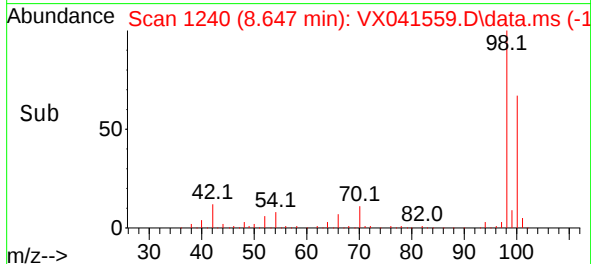
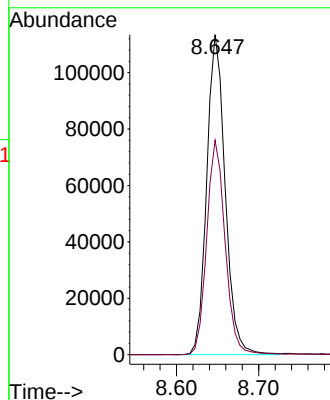
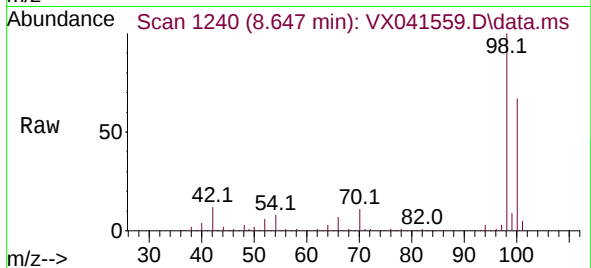
ClientSampleId :

Tgt Ion: 98 Resp: 176807

Ion Ratio Lower Upper

98 100

100 66.9 53.1 79.7



#66

Ethyl Benzene

Concen: 0.255 ug/l

RT: 10.201 min Scan# 1495

Delta R.T. 0.006 min

Lab File: VX041559.D

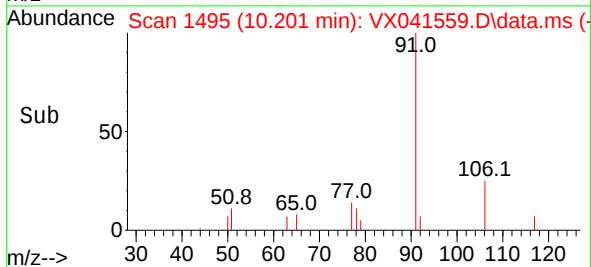
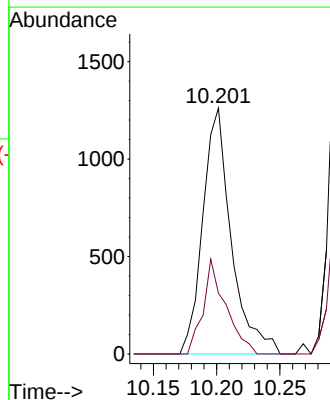
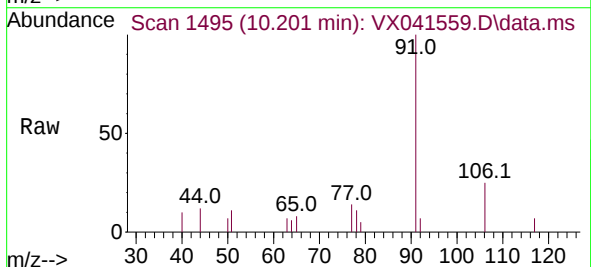
Acq: 16 May 2024 13:34

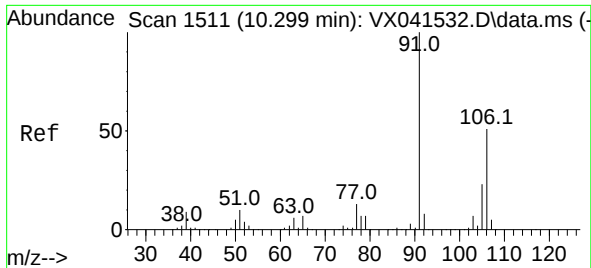
Tgt Ion: 91 Resp: 1983

Ion Ratio Lower Upper

91 100

106 24.7 25.9 38.9#





#67

m/p-Xylenes

Concen: 0.746 ug/l

RT: 10.305 min Scan# 1511

Delta R.T. 0.006 min

Lab File: VX041559.D

Acq: 16 May 2024 13:34

Instrument :

MSVOA_X

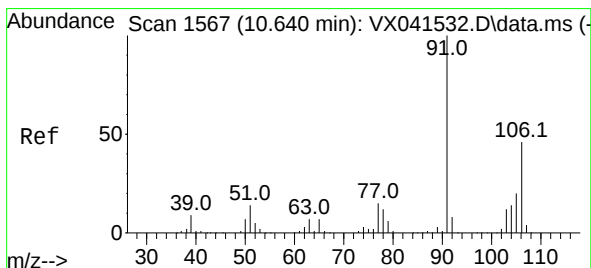
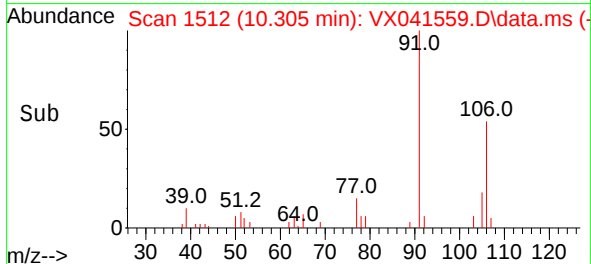
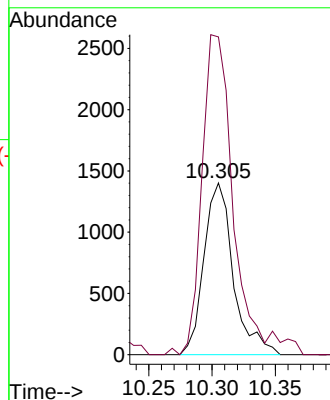
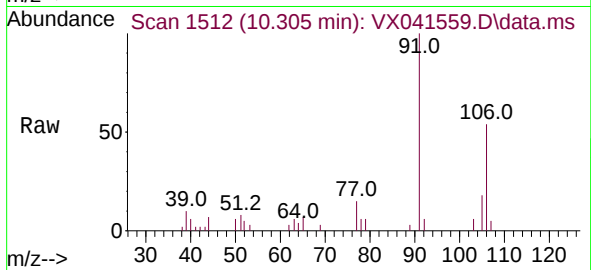
ClientSampleId :

Tgt Ion:106 Resp: 2265

Ion Ratio Lower Upper

106 100

91 191.7 156.5 234.7



#68

o-Xylene

Concen: 0.278 ug/l

RT: 10.646 min Scan# 1568

Delta R.T. 0.006 min

Lab File: VX041559.D

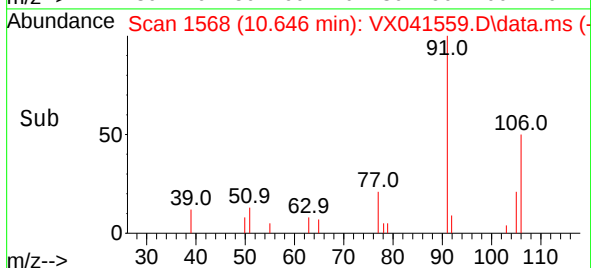
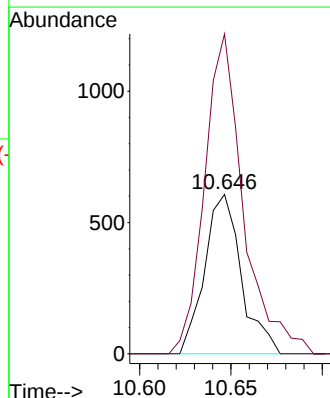
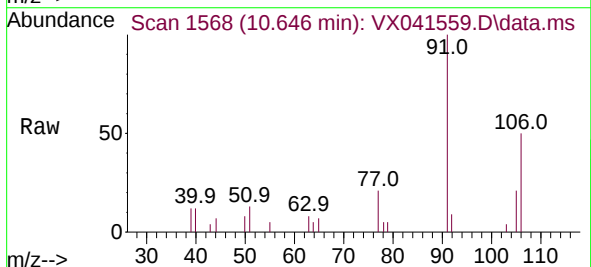
Acq: 16 May 2024 13:34

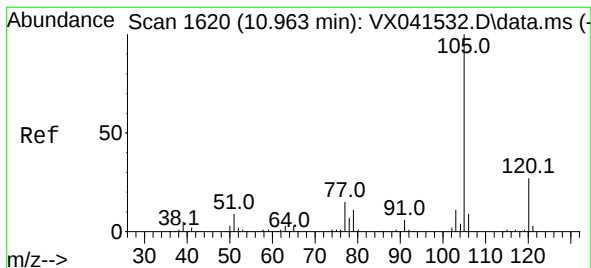
Tgt Ion:106 Resp: 849

Ion Ratio Lower Upper

106 100

91 212.4 105.2 315.6





#70

Isopropylbenzene

Concen: 0.234 ug/l

RT: 11.384 min Scan# 1

Delta R.T. 0.421 min

Lab File: VX041559.D

Acq: 16 May 2024 13:34

Instrument :

MSVOA_X

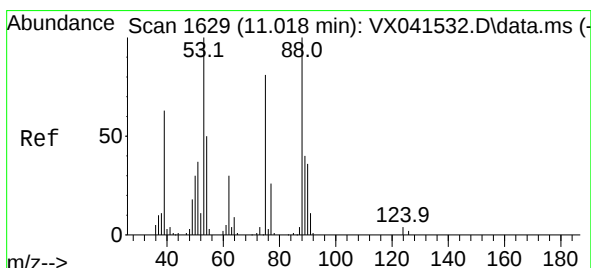
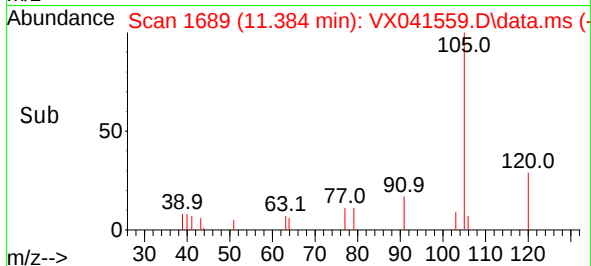
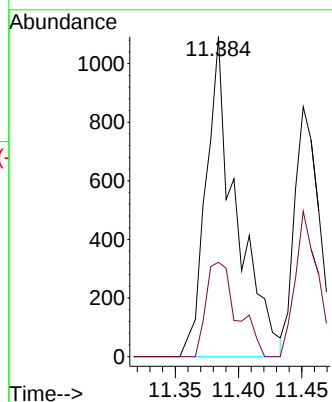
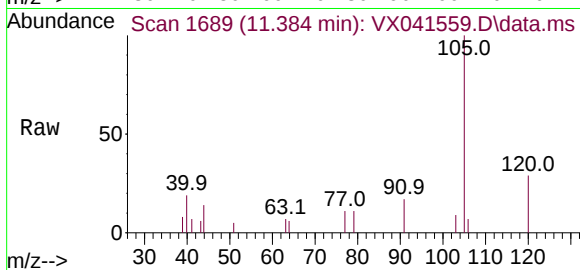
ClientSampleId :

Tgt Ion:105 Resp: 1810

Ion Ratio Lower Upper

105 100

120 26.2 18.8 34.8



#77

t-1,4-Dichloro-2-butene

Concen: 41.952 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX041559.D

Acq: 16 May 2024 13:34

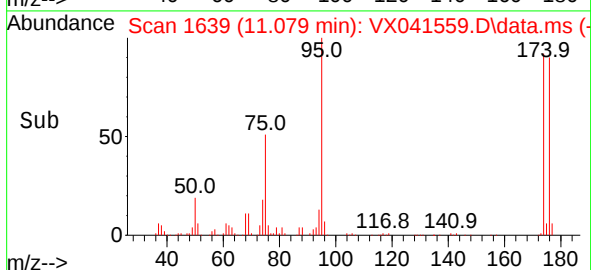
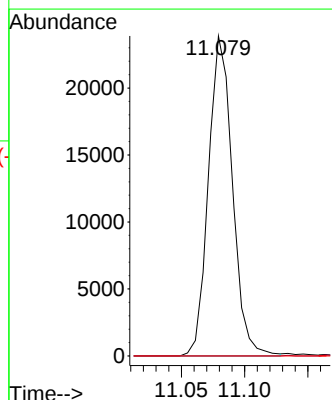
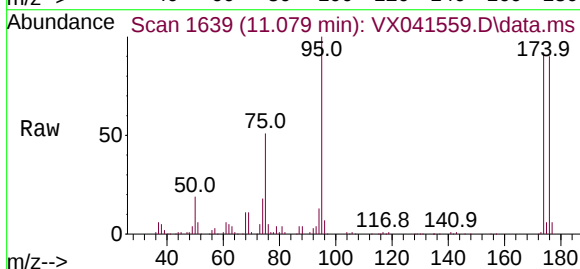
Tgt Ion: 75 Resp: 31552

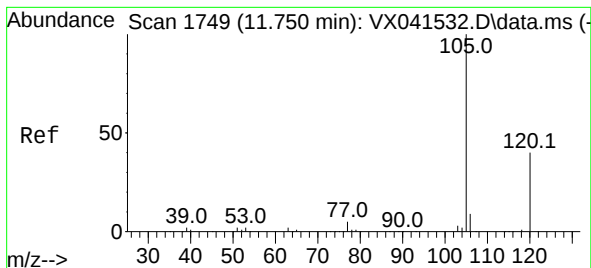
Ion Ratio Lower Upper

75 100

53 0.0 61.8 185.3#

89 0.0 24.9 74.7#





#80

1,2,4-Trimethylbenzene

Concen: 0.506 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX041559.D

Acq: 16 May 2024 13:34

Instrument :

MSVOA_X

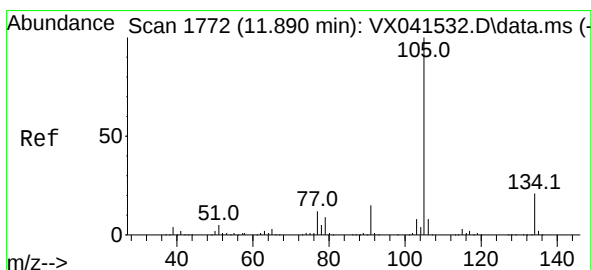
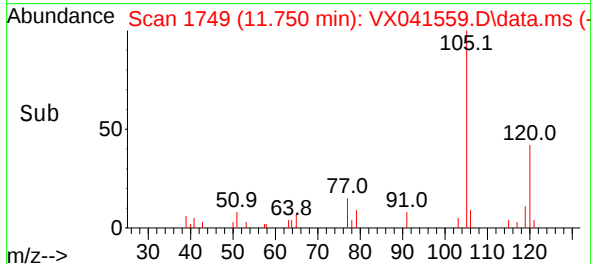
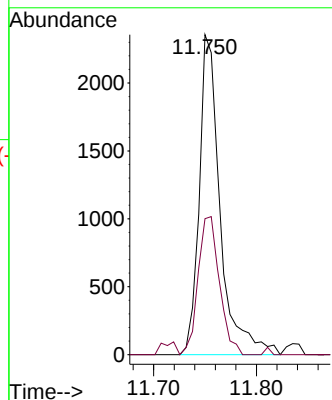
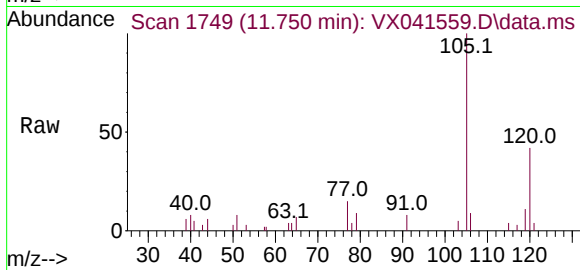
ClientSampleId :

Tgt Ion:105 Resp: 3344

Ion Ratio Lower Upper

105 100

120 43.9 0.0 92.2



#81

sec-Butylbenzene

Concen: 0.408 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.140 min

Lab File: VX041559.D

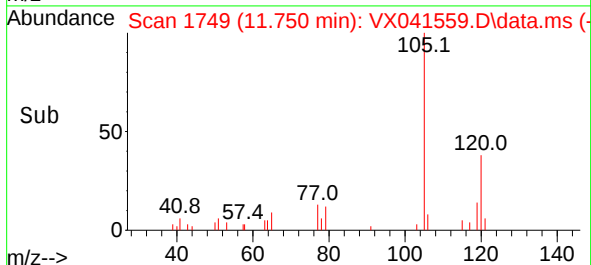
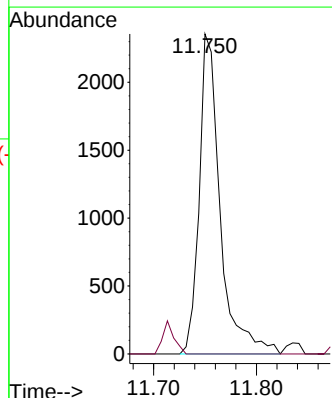
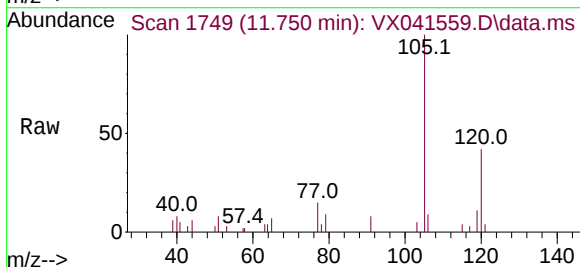
Acq: 16 May 2024 13:34

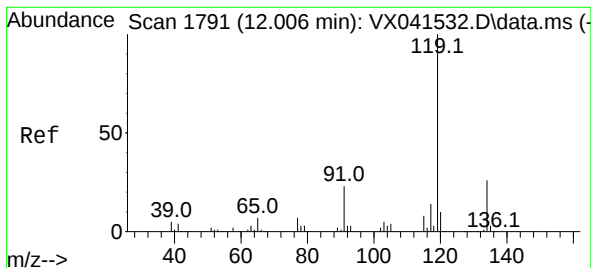
Tgt Ion:105 Resp: 3344

Ion Ratio Lower Upper

105 100

134 5.6 0.0 43.4





#82

p-Isopropyltoluene

Concen: 0.658 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX041559.D

Acq: 16 May 2024 13:34

Instrument :

MSVOA_X

ClientSampleId :

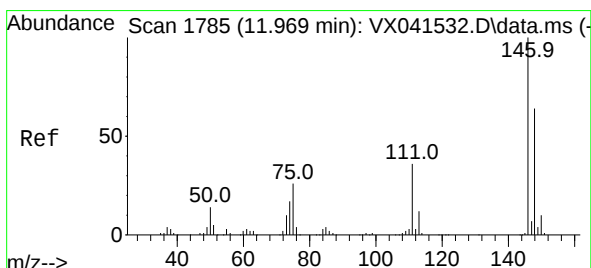
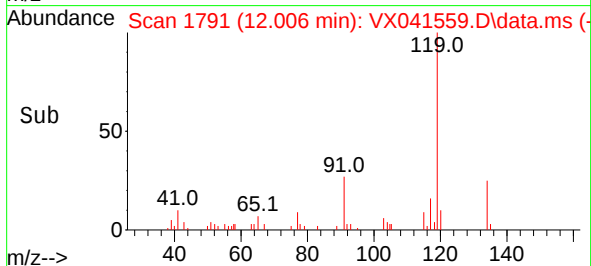
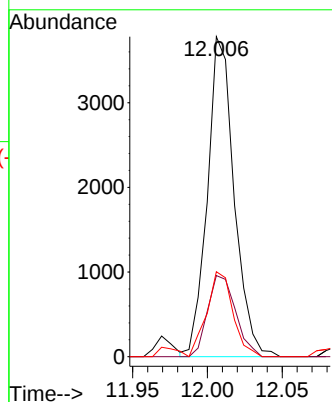
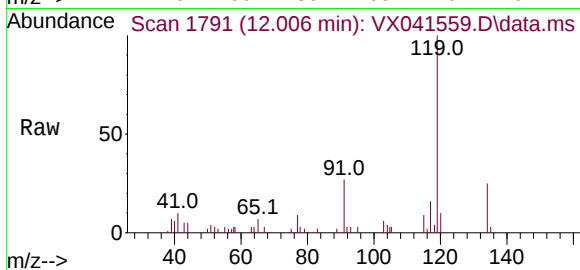
Tgt Ion:119 Resp: 4720

Ion Ratio Lower Upper

119 100

134 26.4 0.0 53.4

91 25.9 0.0 44.8



#83

1,3-Dichlorobenzene

Concen: 0.470 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.073 min

Lab File: VX041559.D

Acq: 16 May 2024 13:34

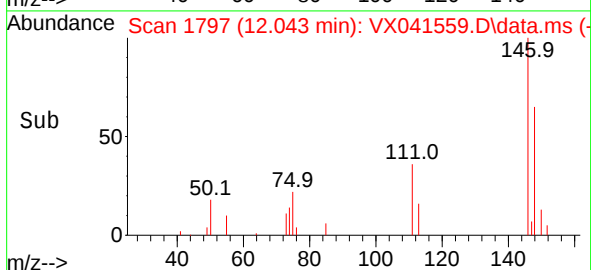
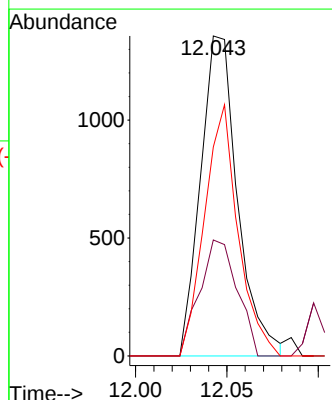
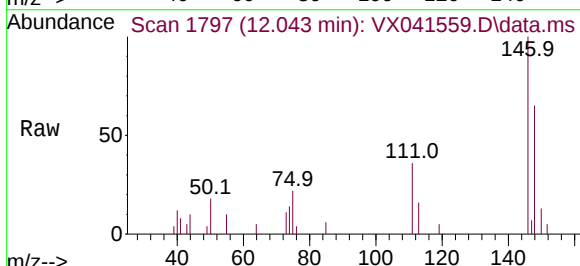
Tgt Ion:146 Resp: 1914

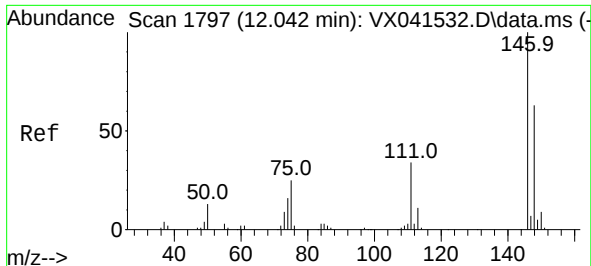
Ion Ratio Lower Upper

146 100

111 36.8 18.4 55.2

148 71.0 32.3 96.9





#84

1,4-Dichlorobenzene

Concen: 0.465 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

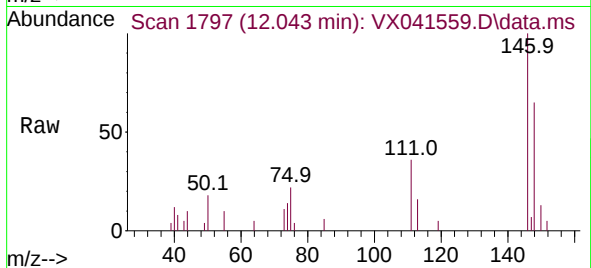
Lab File: VX041559.D

Acq: 16 May 2024 13:34

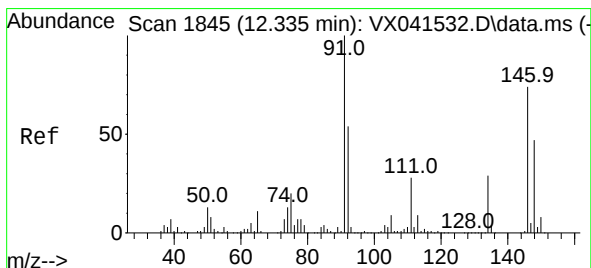
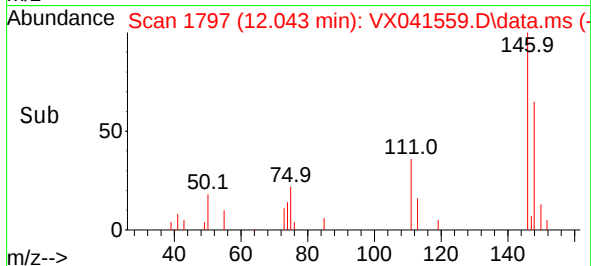
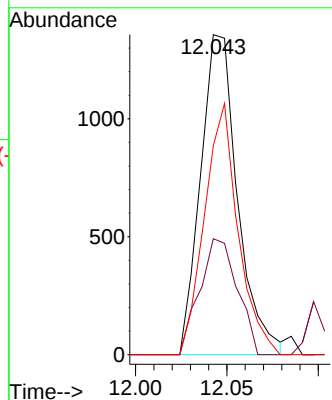
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	146	Resp:	1914
Ion	Ratio	Lower	Upper
146	100		
111	36.8	17.8	53.5
148	71.0	31.9	95.5



#87

1,2-Dichlorobenzene

Concen: 0.461 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. -0.293 min

Lab File: VX041559.D

Acq: 16 May 2024 13:34

Tgt Ion:	146	Resp:	1914
Ion	Ratio	Lower	Upper
146	100		
111	36.8	19.3	57.9
148	71.0	31.8	95.4

