

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081324\
 Data File : VX043015.D
 Acq On : 13 Aug 2024 15:19
 Operator : JC/MD
 Sample : P3546-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 14 04:33:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 13 13:22:56 2024
 Response via : Initial Calibration

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

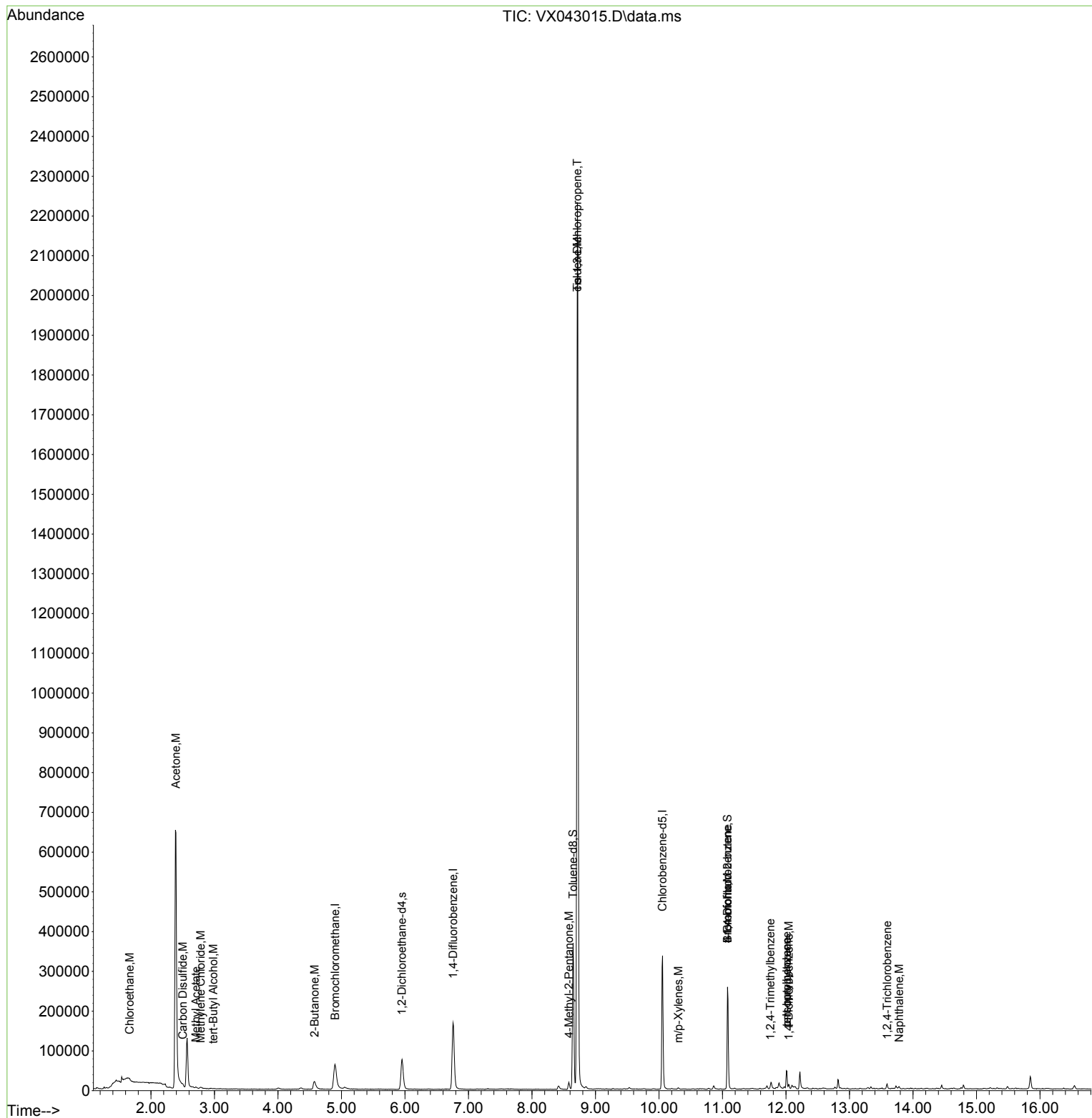
Internal Standards						
1) Bromochloromethane	4.898	128	30506	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	179719	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	155841	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	66091	26.764	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	89.200%#
60) 4-Bromofluorobenzene	11.079	95	73824	27.905	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.000%
63) Toluene-d8	8.647	98	218870	30.573	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.900%
Target Compounds						
					Qvalue	
6) Chloroethane	1.666	64	860	1.327	ug/l #	56
12) Methyl Acetate	2.709	43	4114	1.083	ug/l	98
15) Acetone	2.392	58	263873	655.927	ug/l	76
16) Carbon Disulfide	2.502	76	4459	0.718	ug/l	95
18) Methylene Chloride	2.782	84	1605	0.659	ug/l	93
23) tert-Butyl Alcohol	2.983	59	675	1.075	ug/l #	100
30) 2-Butanone	4.574	43	39588	20.030	ug/l #	97
49) cis-1,3-Dichloropropene	8.714	75	9399	2.549	ug/l #	1
56) Bromoform	11.079	173	479	0.300	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	10375	2.879	ug/l	95
62) Toluene	8.714	91	1464504	164.511	ug/l	97
67) m/p-Xylenes	10.305	106	923	0.255	ug/l	88
77) t-1,4-Dichloro-2-butene	11.079	75	35624	26.509	ug/l #	11
79) tert-butylbenzene	12.012	119	21744	2.883	ug/l	65
80) 1,2,4-Trimethylbenzene	11.756	105	3331	0.441	ug/l	60
82) p-Isopropyltoluene	12.012	119	21744	2.821	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	1893	0.492	ug/l	92
89) 1,2,4-Trichlorobenzene	13.591	180	485	0.215	ug/l	90
91) Naphthalene	13.780	128	3557	0.403	ug/l	98

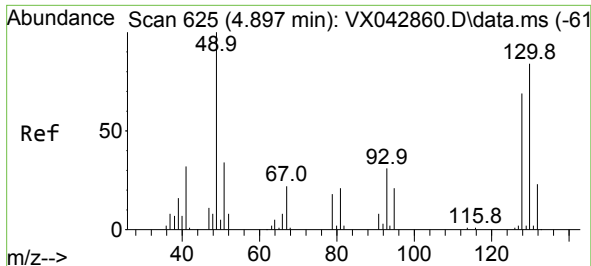
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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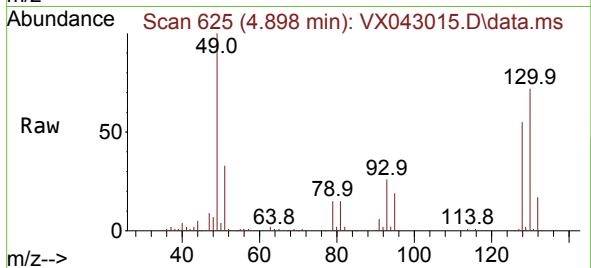
Quant Time: Aug 14 04:33:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Aug 13 13:22:56 2024
Response via : Initial Calibration



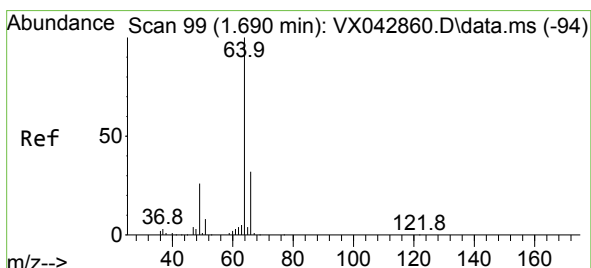
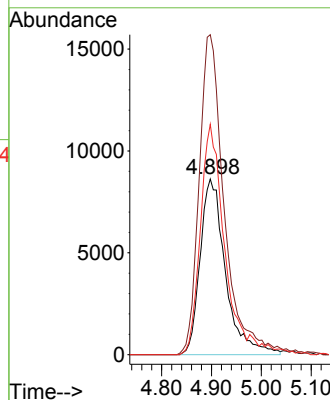
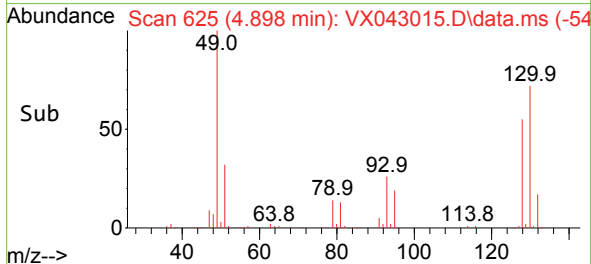


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

Instrument :
MSVOA_X
ClientSampleId :

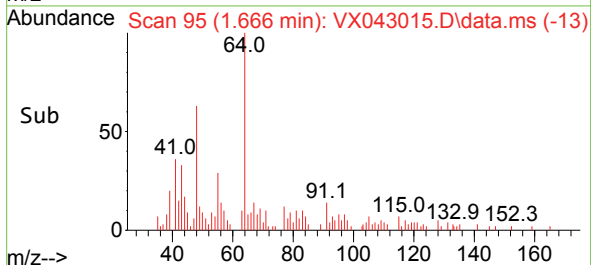
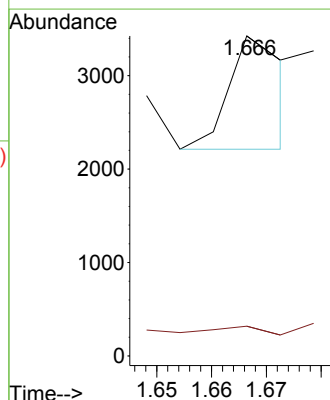
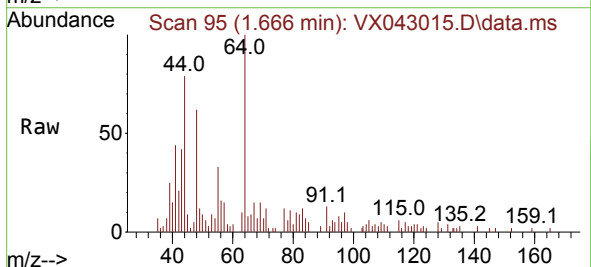


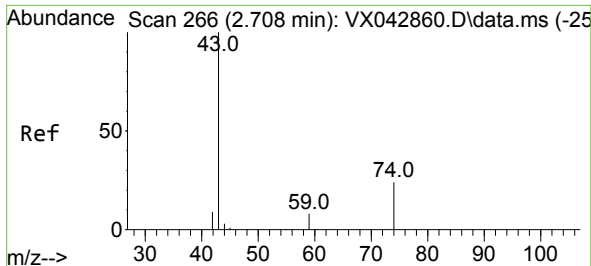
Tgt Ion:128 Resp: 30506
Ion Ratio Lower Upper
128 100
49 176.8 0.0 400.5
130 119.6 0.0 333.0



#6
Chloroethane
Concen: 1.327 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

Tgt Ion: 64 Resp: 860
Ion Ratio Lower Upper
64 100
66 7.7 25.9 38.9#

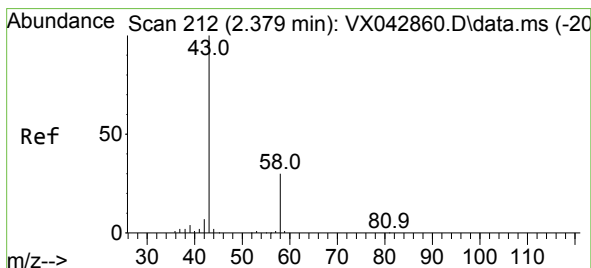
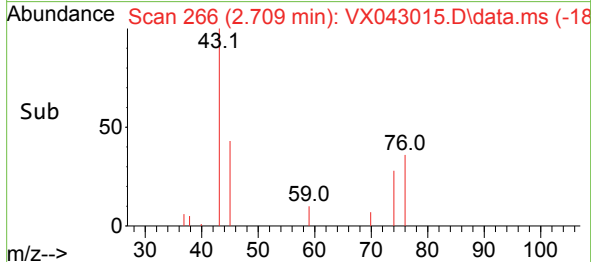
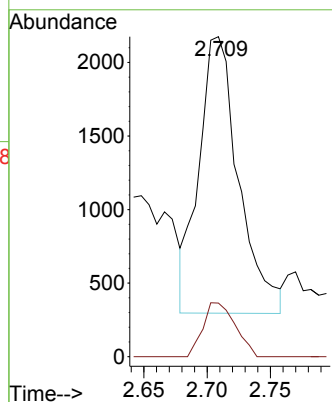
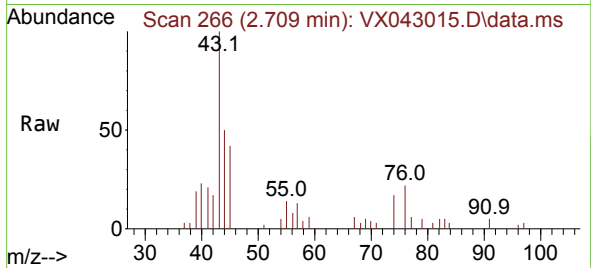




#12
Methyl Acetate
Concen: 1.083 ug/l
RT: 2.709 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

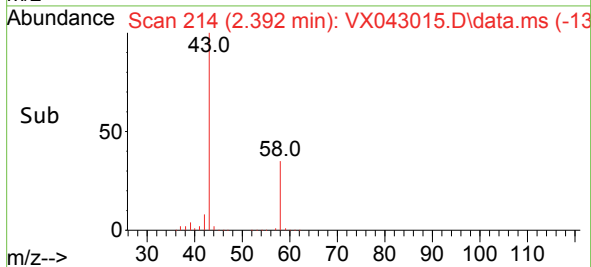
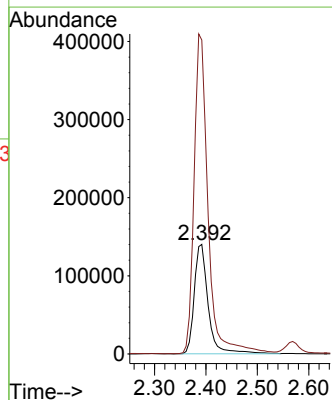
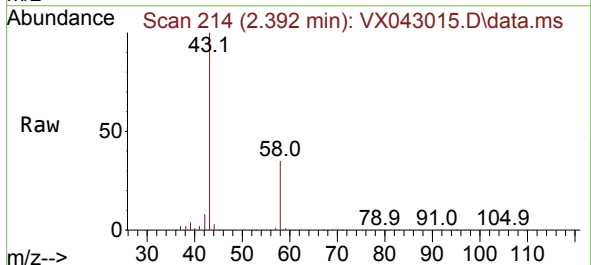
Instrument :
MSVOA_X
ClientSampleId :

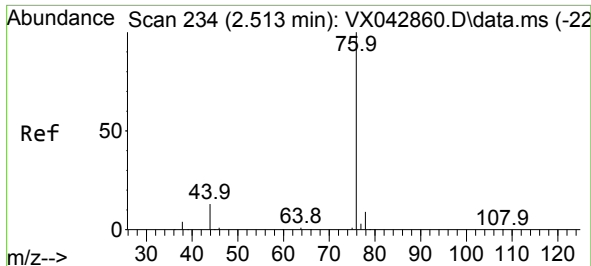
Tgt Ion: 43 Resp: 4114
Ion Ratio Lower Upper
43 100
74 23.2 19.4 29.2



#15
Acetone
Concen: 655.927 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

Tgt Ion: 58 Resp: 263873
Ion Ratio Lower Upper
58 100
43 286.3 269.9 404.9

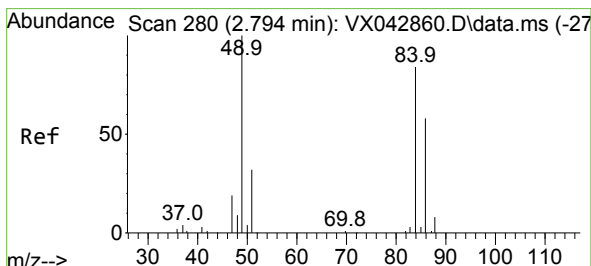
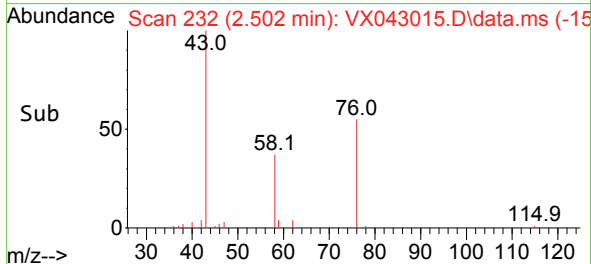
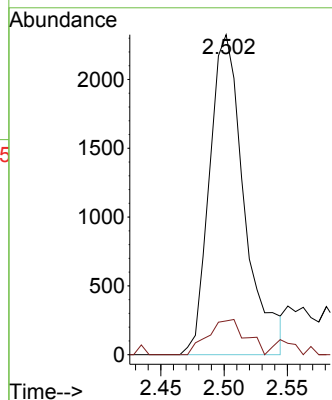
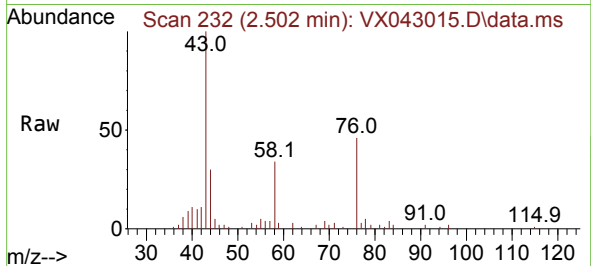




#16
Carbon Disulfide
Concen: 0.718 ug/l
RT: 2.502 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

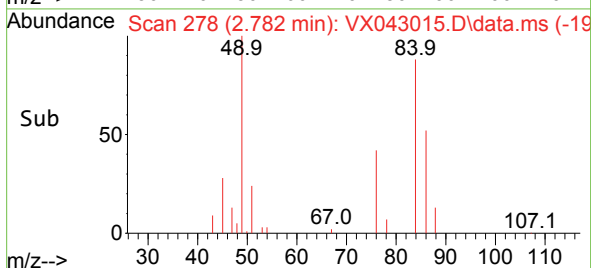
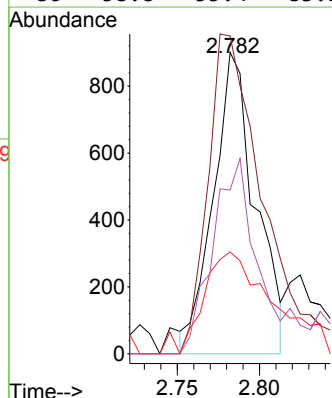
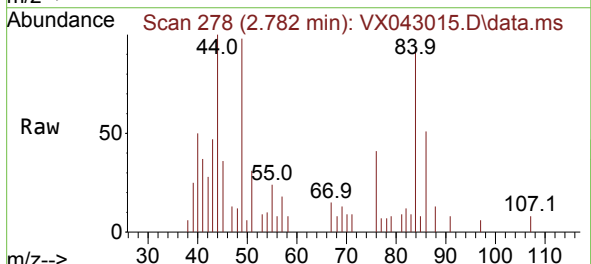
Instrument :
MSVOA_X
ClientSampleId :

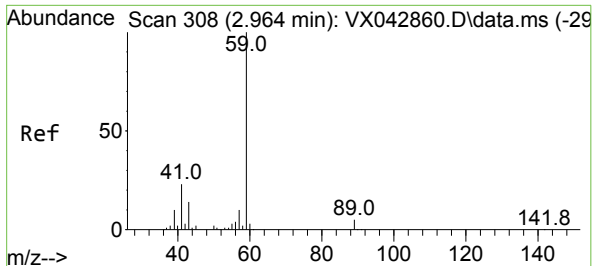
Tgt Ion: 76 Resp: 4459
Ion Ratio Lower Upper
76 100
78 10.5 7.1 10.7



#18
Methylene Chloride
Concen: 0.659 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

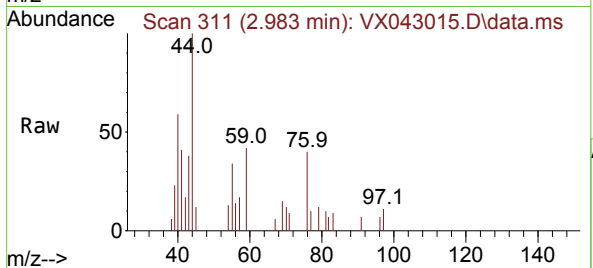
Tgt Ion: 84 Resp: 1605
Ion Ratio Lower Upper
84 100
49 113.9 95.0 142.6
51 36.6 30.1 45.1
86 58.8 55.4 83.2



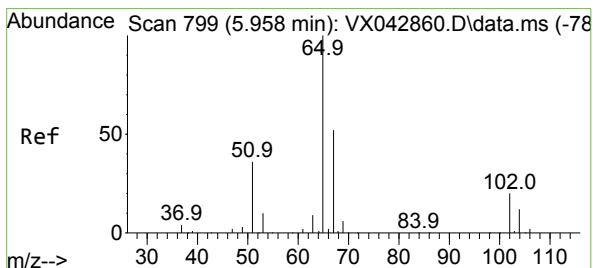
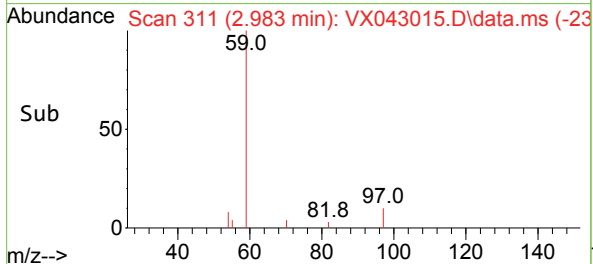
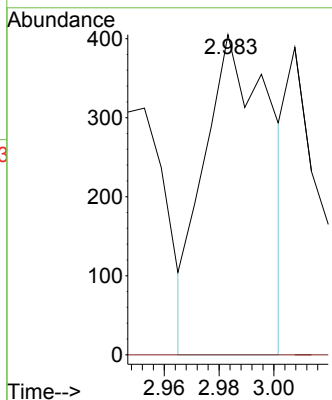


#23
tert-Butyl Alcohol
Concen: 1.075 ug/l
RT: 2.983 min Scan# 311
Delta R.T. -0.012 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

Instrument :
MSVOA_X
ClientSampleId :

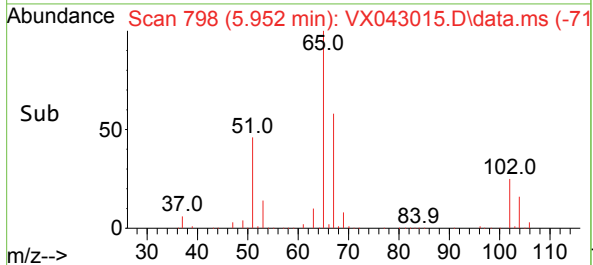
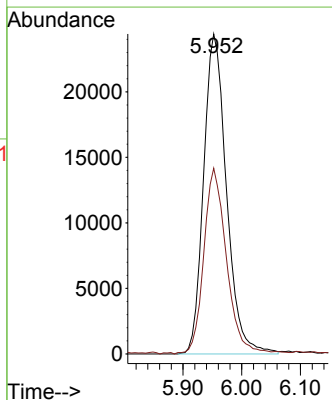
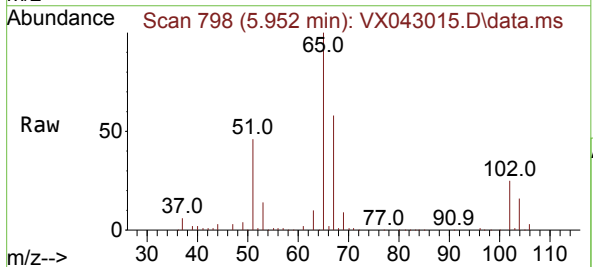


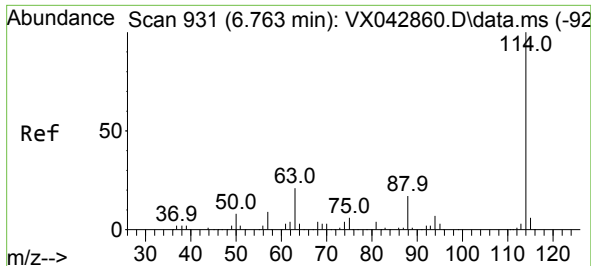
Tgt Ion: 59 Resp: 675
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 26.764 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

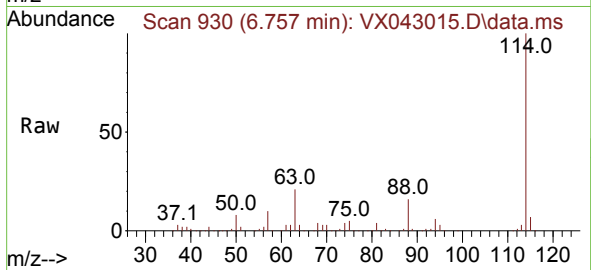
Tgt Ion: 65 Resp: 66091
Ion Ratio Lower Upper
65 100
67 57.4 40.6 60.8



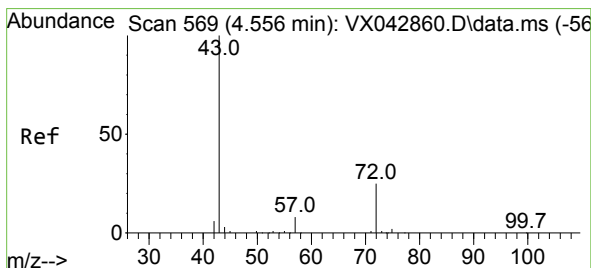
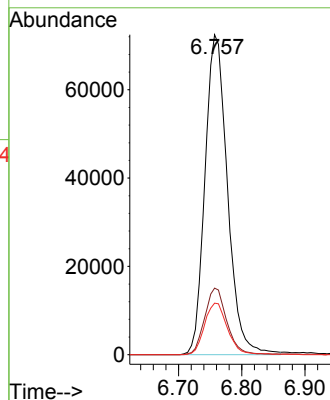
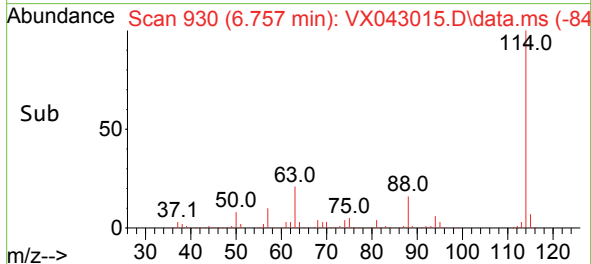


#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.757 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VX043015.D
 Acq: 13 Aug 2024 15:19

Instrument :
 MSVOA_X
 ClientSampleId :

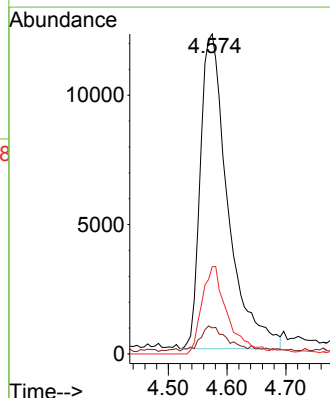
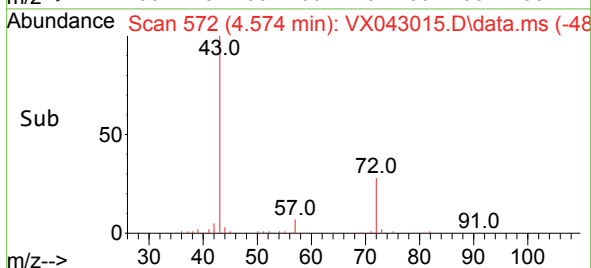
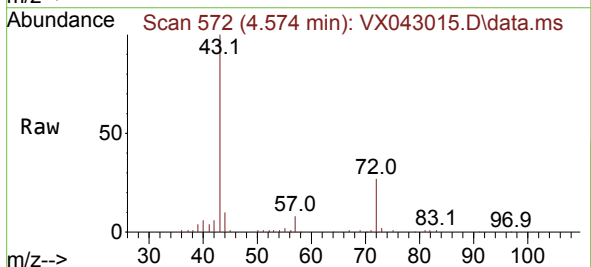


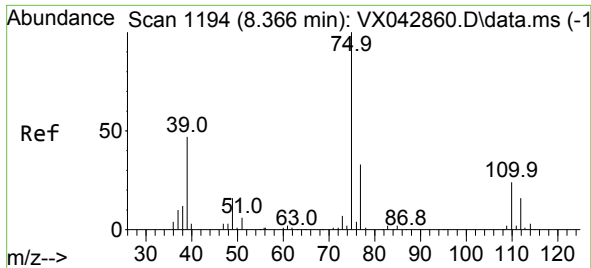
Tgt Ion:114 Resp: 179719
 Ion Ratio Lower Upper
 114 100
 63 20.4 16.0 24.0
 88 16.3 12.5 18.7



#30
 2-Butanone
 Concen: 20.030 ug/l
 RT: 4.574 min Scan# 572
 Delta R.T. 0.006 min
 Lab File: VX043015.D
 Acq: 13 Aug 2024 15:19

Tgt Ion: 43 Resp: 39588
 Ion Ratio Lower Upper
 43 100
 57 5.3 6.6 10.0#
 72 25.5 21.0 31.4

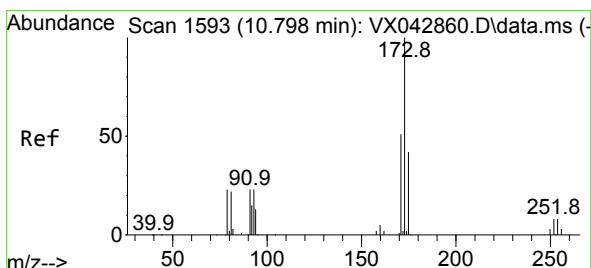
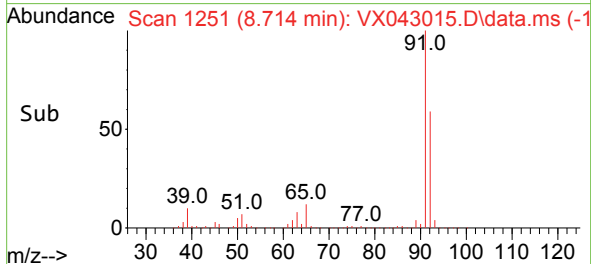
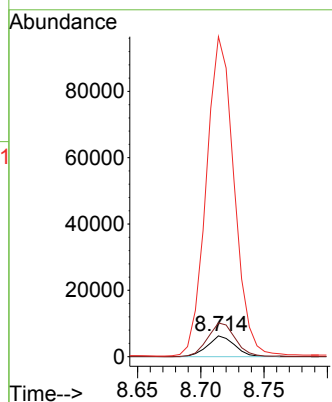
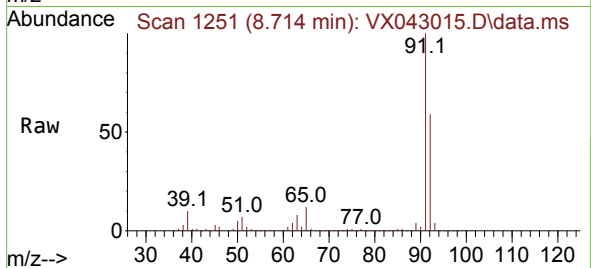




#49
 cis-1,3-Dichloropropene
 Concen: 2.549 ug/l
 RT: 8.714 min Scan# 1194
 Delta R.T. 0.348 min
 Lab File: VX043015.D
 Acq: 13 Aug 2024 15:19

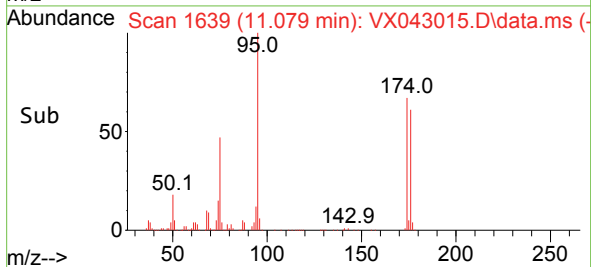
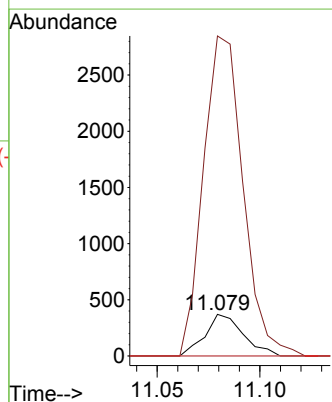
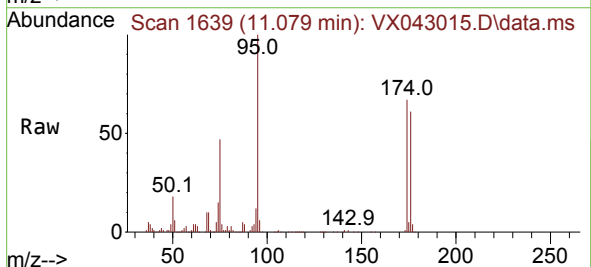
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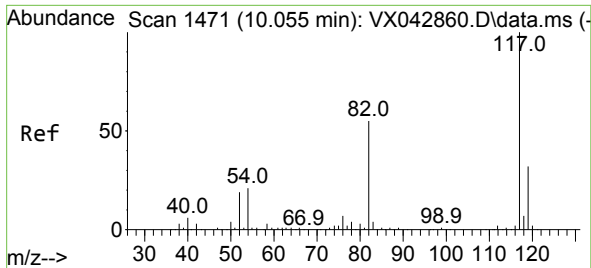
Tgt Ion: 75 Resp: 9399
 Ion Ratio Lower Upper
 75 100
 77 161.2 26.8 40.2#
 39 1530.8 37.5 56.3#



#56
 Bromoform
 Concen: 0.300 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.280 min
 Lab File: VX043015.D
 Acq: 13 Aug 2024 15:19

Tgt Ion: 173 Resp: 479
 Ion Ratio Lower Upper
 173 100
 175 798.7 37.1 55.7#
 254 0.0 6.6 10.0#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX043015.D

Acq: 13 Aug 2024 15:19

Instrument :

MSVOA_X

ClientSampleId :

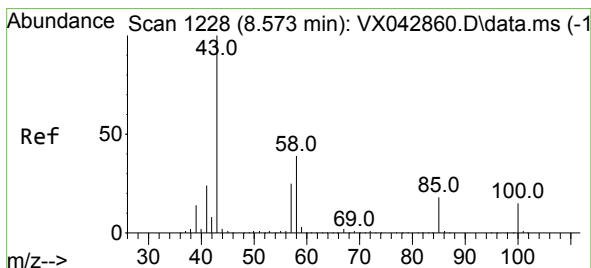
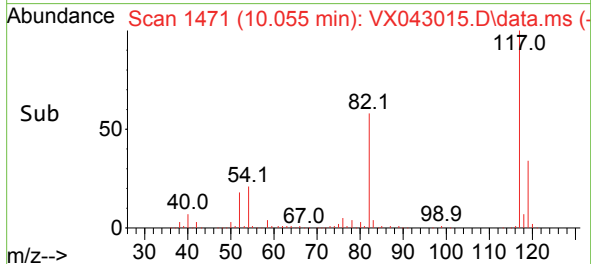
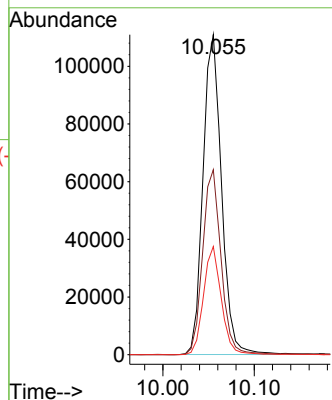
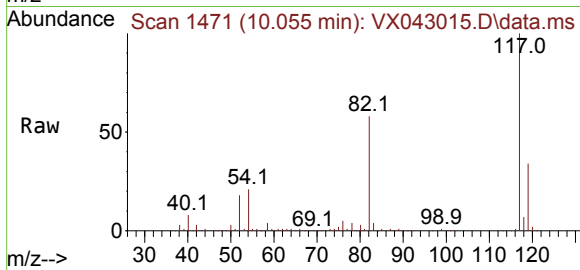
Tgt Ion:117 Resp: 155841

Ion Ratio Lower Upper

117 100

82 57.6 44.9 67.3

119 32.4 25.4 38.2



#58

4-Methyl-2-Pentanone

Concen: 2.879 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX043015.D

Acq: 13 Aug 2024 15:19

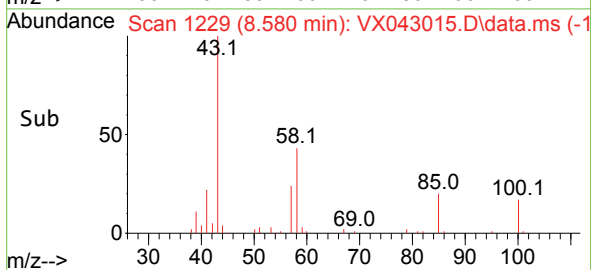
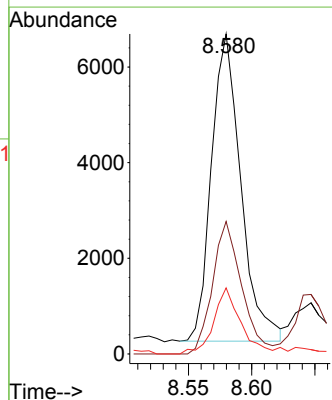
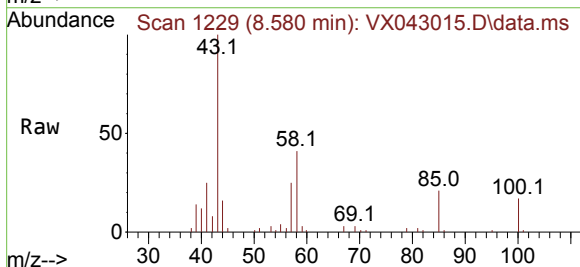
Tgt Ion: 43 Resp: 10375

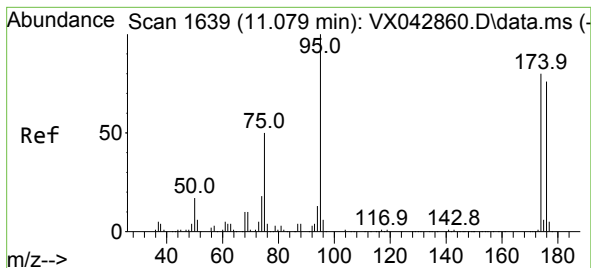
Ion Ratio Lower Upper

43 100

58 42.7 31.4 47.0

85 19.6 14.6 21.8





#60

4-Bromofluorobenzene

Concen: 27.905 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX043015.D

Acq: 13 Aug 2024 15:19

Instrument :

MSVOA_X

ClientSampleId :

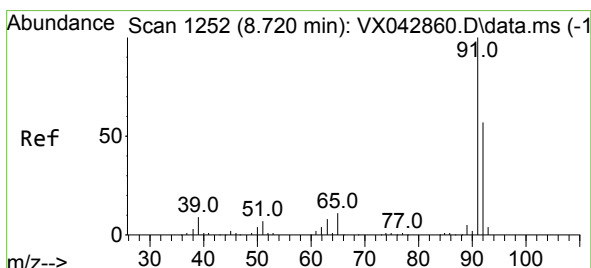
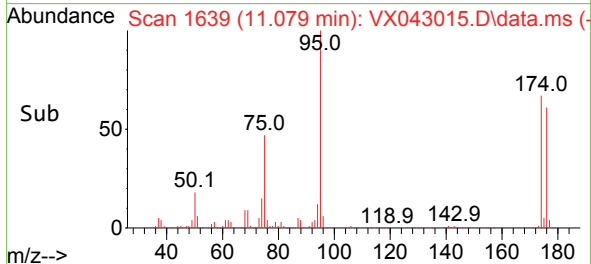
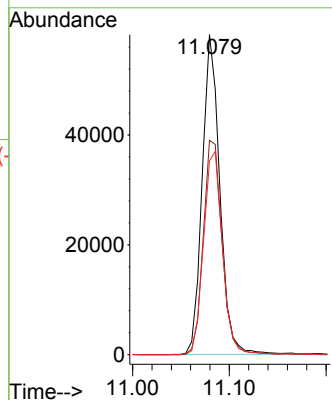
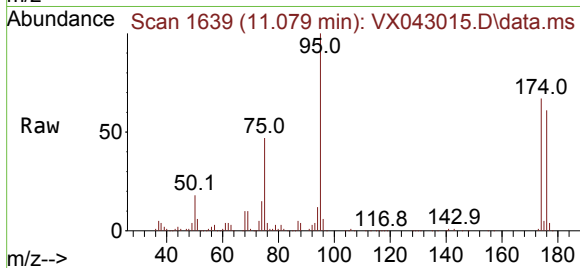
Tgt Ion: 95 Resp: 73824

Ion Ratio Lower Upper

95 100

174 71.8 65.0 97.6

176 67.5 63.4 95.0



#62

Toluene

Concen: 164.511 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.006 min

Lab File: VX043015.D

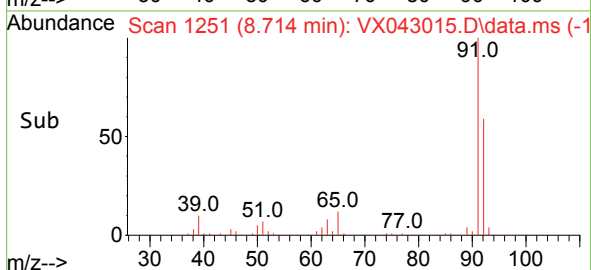
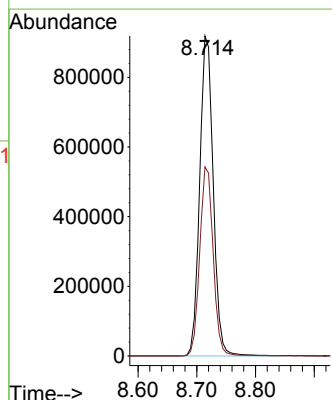
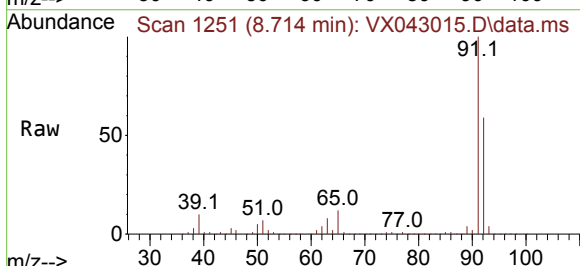
Acq: 13 Aug 2024 15:19

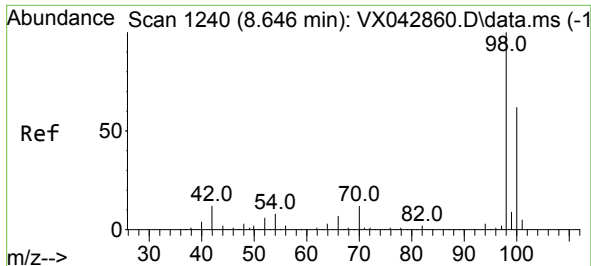
Tgt Ion: 91 Resp: 1464504

Ion Ratio Lower Upper

91 100

92 59.0 45.7 68.5

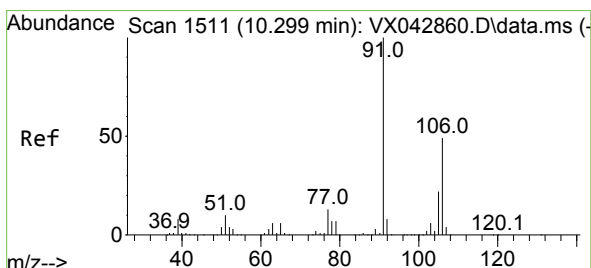
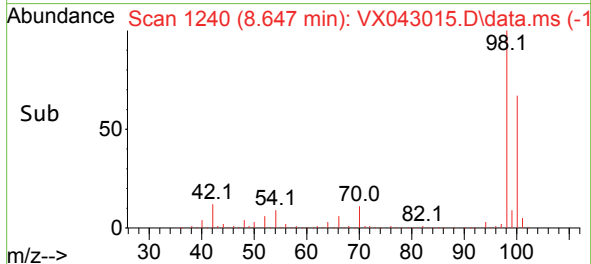
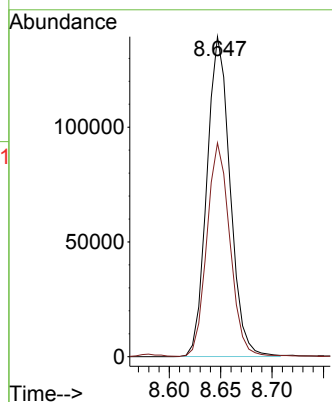
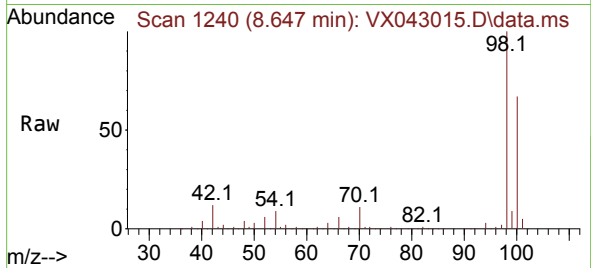




#63
Toluene-d8
Concen: 30.573 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

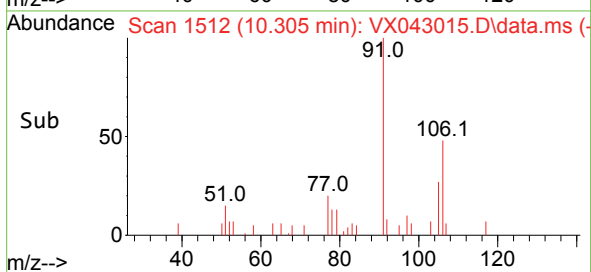
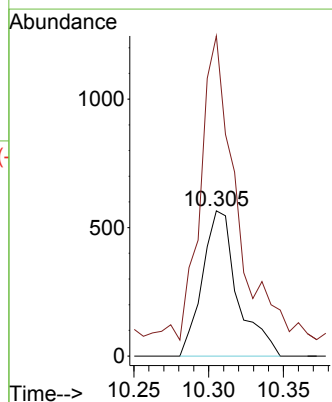
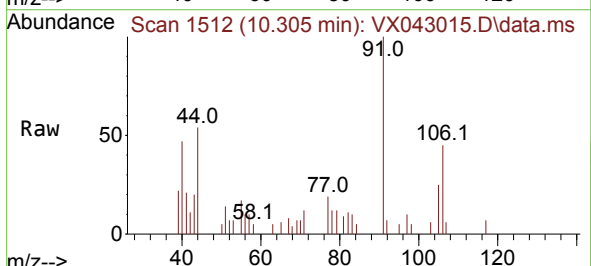
Instrument :
MSVOA_X
ClientSampleId :

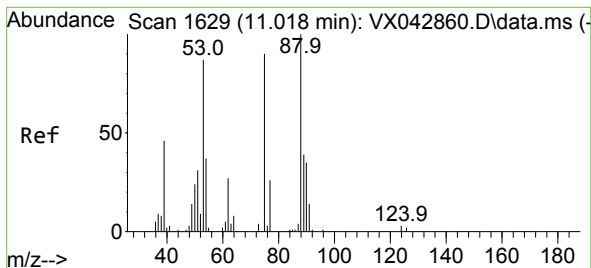
Tgt Ion: 98 Resp: 218870
Ion Ratio Lower Upper
98 100
100 66.7 50.9 76.3



#67
m/p-Xylenes
Concen: 0.255 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

Tgt Ion:106 Resp: 923
Ion Ratio Lower Upper
106 100
91 188.4 165.3 247.9

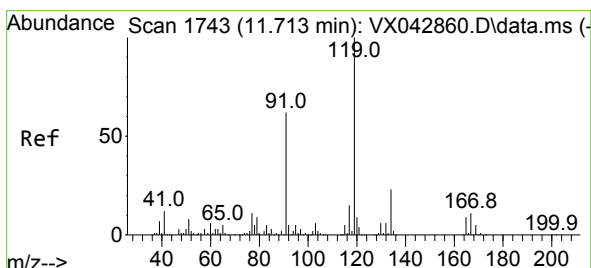
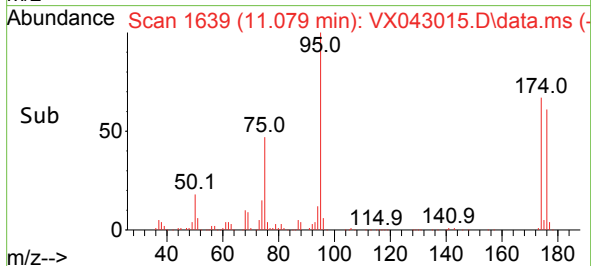
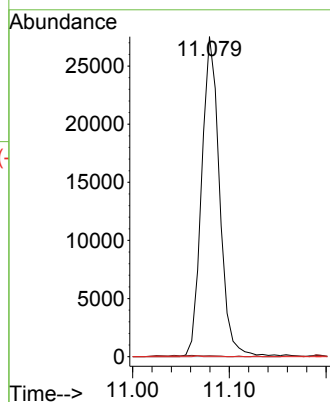
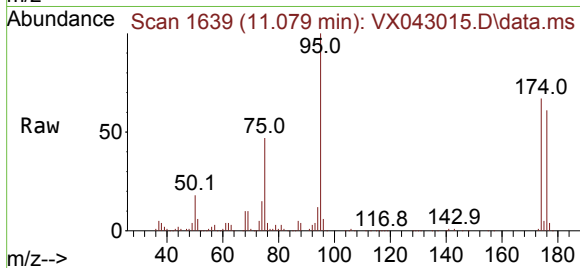




#77
 t-1,4-Dichloro-2-butene
 Concen: 26.509 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX043015.D
 Acq: 13 Aug 2024 15:19

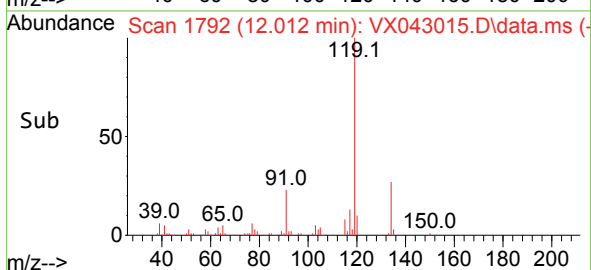
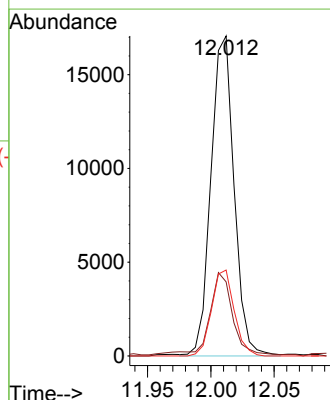
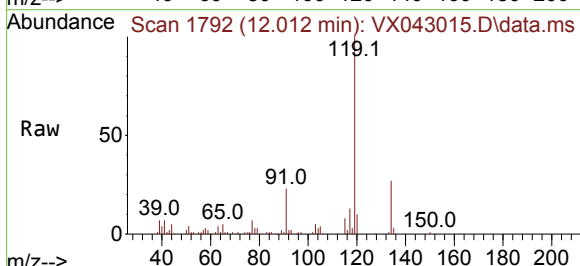
Instrument :
 MSVOA_X
 ClientSampleId :

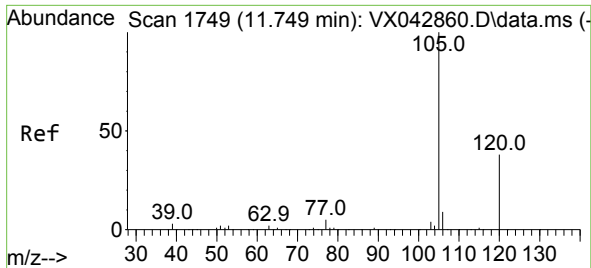
Tgt Ion: 75 Resp: 35624
 Ion Ratio Lower Upper
 75 100
 53 0.3 48.5 145.5#
 89 0.0 21.9 65.5#



#79
 tert-butylbenzene
 Concen: 2.883 ug/l
 RT: 12.012 min Scan# 1792
 Delta R.T. 0.299 min
 Lab File: VX043015.D
 Acq: 13 Aug 2024 15:19

Tgt Ion: 119 Resp: 21744
 Ion Ratio Lower Upper
 119 100
 91 25.2 0.0 118.6
 134 26.2 0.0 44.4

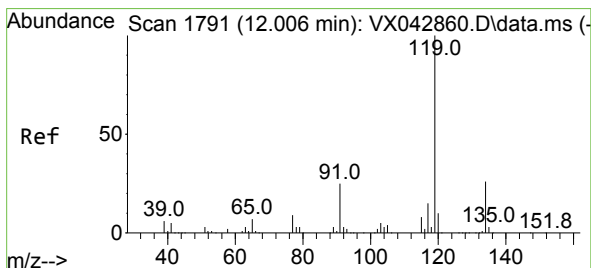
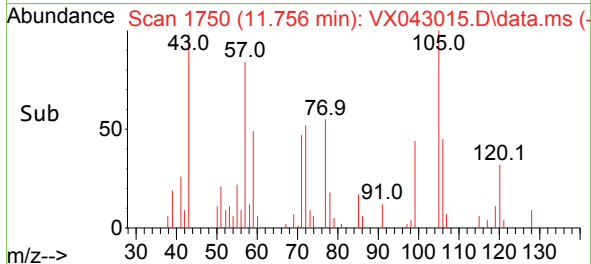
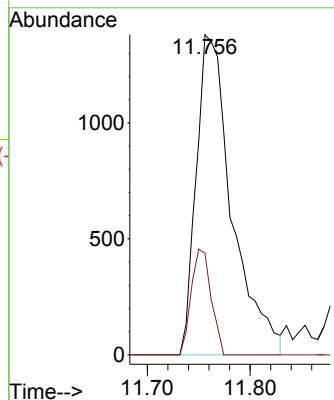
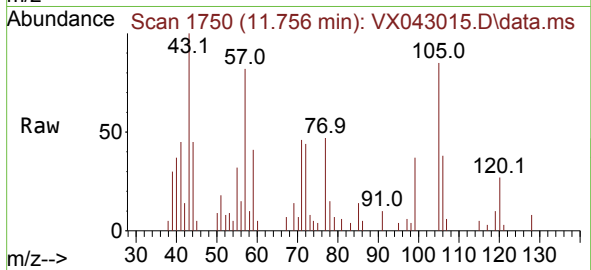




#80
1,2,4-Trimethylbenzene
Concen: 0.441 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

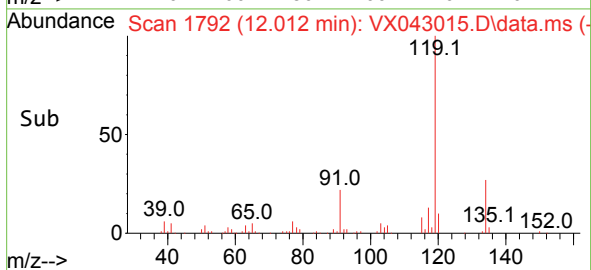
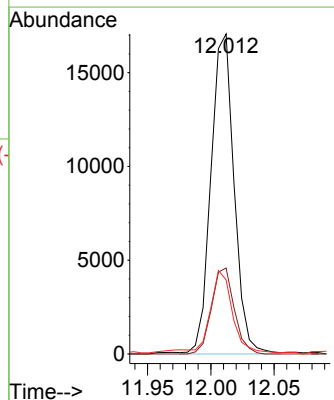
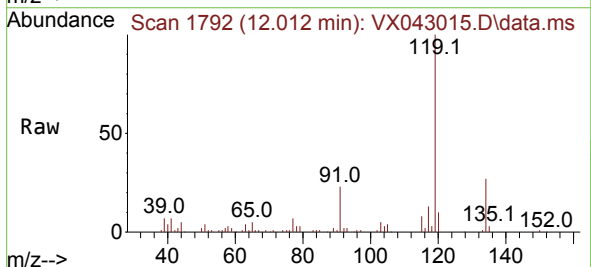
Instrument :
MSVOA_X
ClientSampleId :

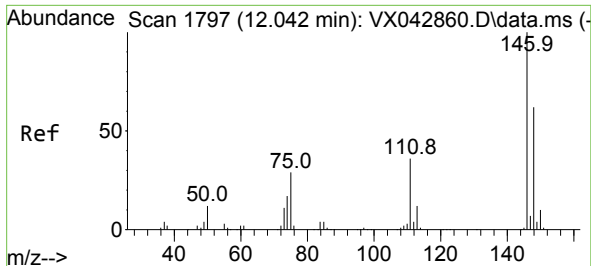
Tgt Ion:105 Resp: 3331
Ion Ratio Lower Upper
105 100
120 18.4 0.0 87.8



#82
p-Isopropyltoluene
Concen: 2.821 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

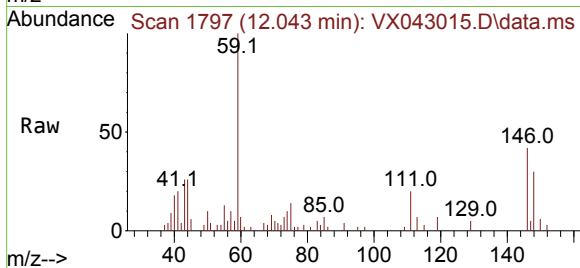
Tgt Ion:119 Resp: 21744
Ion Ratio Lower Upper
119 100
134 26.2 0.0 51.8
91 24.6 0.0 48.4



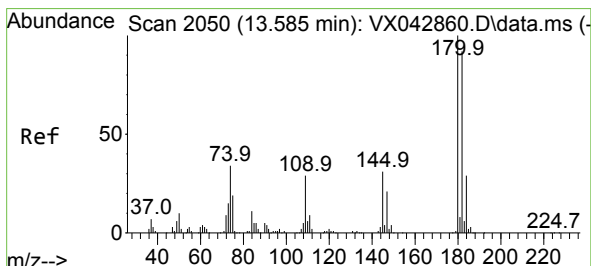
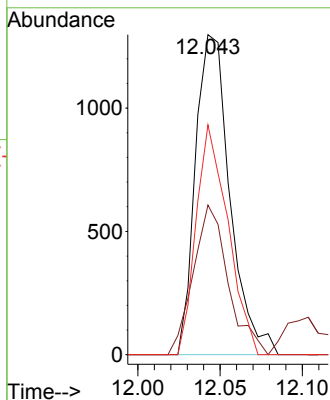
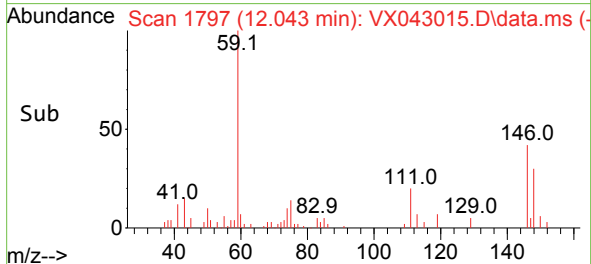


#84
1,4-Dichlorobenzene
Concen: 0.492 ug/l
RT: 12.043 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

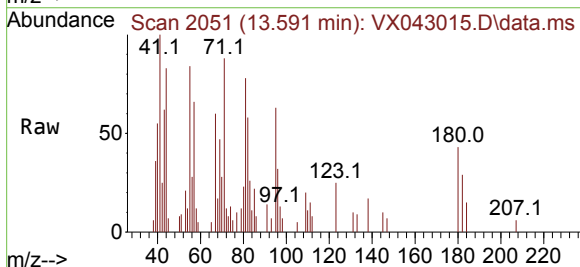
Instrument :
MSVOA_X
ClientSampleId :



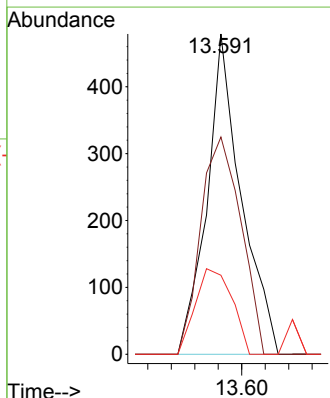
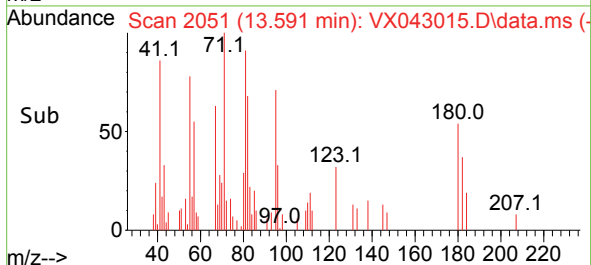
Tgt Ion:146 Resp: 1893
Ion Ratio Lower Upper
146 100
111 47.3 19.4 58.4
148 66.2 31.4 94.2

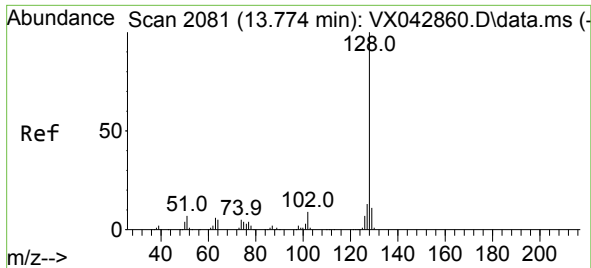


#89
1,2,4-Trichlorobenzene
Concen: 0.215 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19



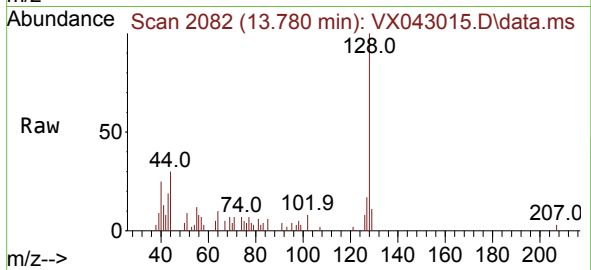
Tgt Ion:180 Resp: 485
Ion Ratio Lower Upper
180 100
182 79.6 73.1 109.7
145 28.7 24.6 37.0





#91
Naphthalene
Concen: 0.403 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX043015.D
Acq: 13 Aug 2024 15:19

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:	128	Resp:	3557
Ion	Ratio	Lower	Upper
128	100		
127	14.3	10.2	15.4
129	11.0	8.8	13.2

