

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081324\
 Data File : VX043018.D
 Acq On : 13 Aug 2024 16:29
 Operator : JC/MD
 Sample : P3546-02DL 4X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 14 04:34:53 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)

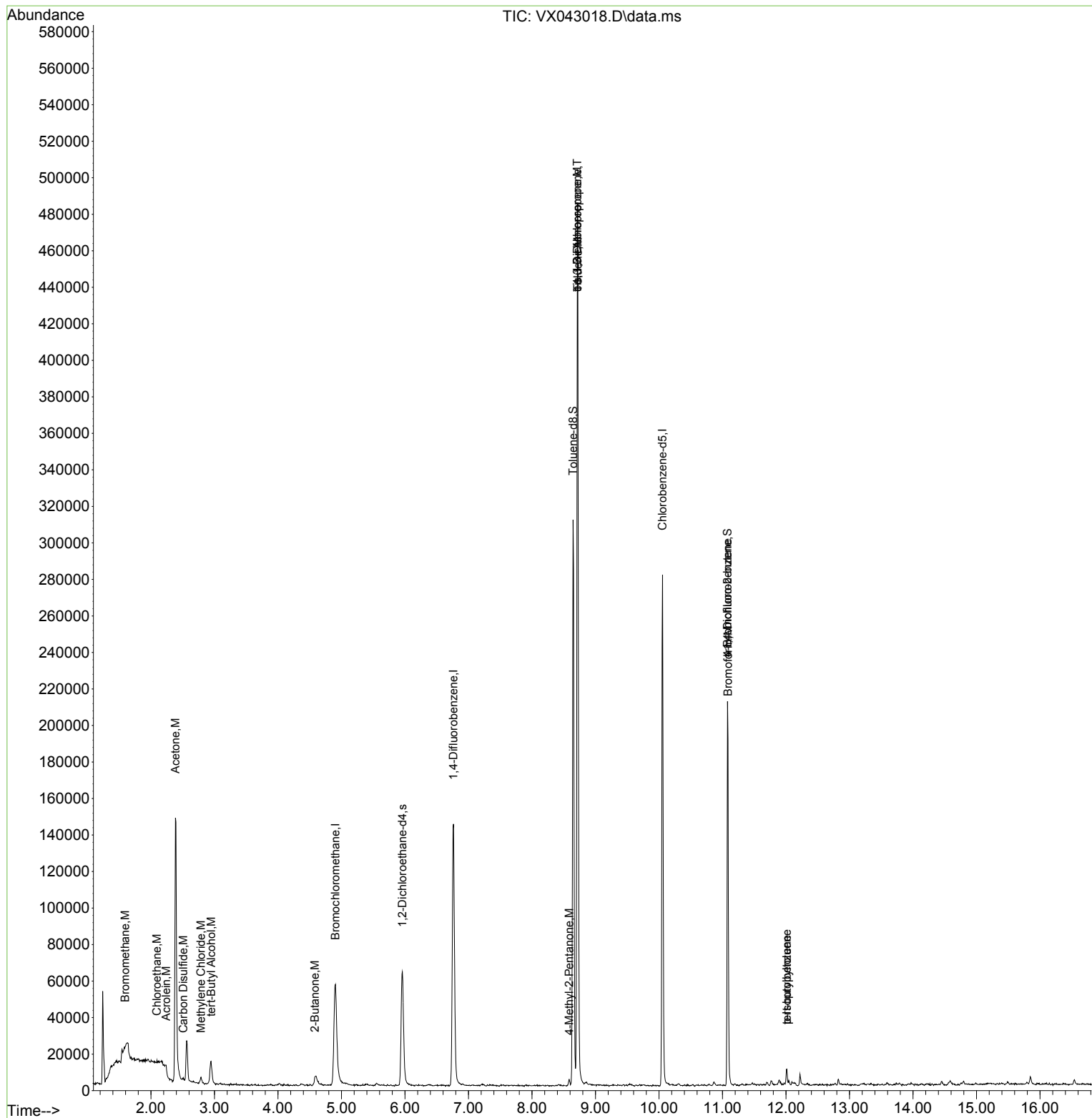
Internal Standards						
1) Bromochloromethane	4.904	128	26382	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	152268	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	130423	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	57336	26.848	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	89.500%#
60) 4-Bromofluorobenzene	11.079	95	61229	27.654	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.167%
63) Toluene-d8	8.647	98	184886	30.859	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.867%
Target Compounds						
					Qvalue	
5) Bromomethane	1.593	94	169	0.306	ug/l #	2
6) Chloroethane	2.093	64	409	0.730	ug/l	89
13) Acrolein	2.240	56	258	0.478	ug/l	99
15) Acetone	2.386	58	55493	159.506	ug/l	76
16) Carbon Disulfide	2.508	76	2118	0.394	ug/l #	85
18) Methylene Chloride	2.788	84	1819	0.864	ug/l	89
23) tert-Butyl Alcohol	2.947	59	7999	14.731	ug/l #	100
30) 2-Butanone	4.581	43	2735	1.633	ug/l #	94
48) t-1,3-Dichloropropene	8.714	75	2042	0.713	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	2042	0.654	ug/l #	1
56) Bromoform	11.085	173	399	0.295	ug/l #	1
58) 4-Methyl-2-Pentanone	8.586	43	2606	0.864	ug/l	93
62) Toluene	8.720	91	325579	43.701	ug/l	98
77) t-1,4-Dichloro-2-butene	11.079	75	28166	25.044	ug/l #	11
79) tert-butylbenzene	12.012	119	4376	0.693	ug/l	67
82) p-Isopropyltoluene	12.012	119	4376	0.678	ug/l	95

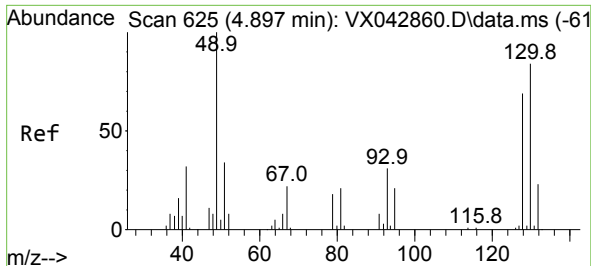
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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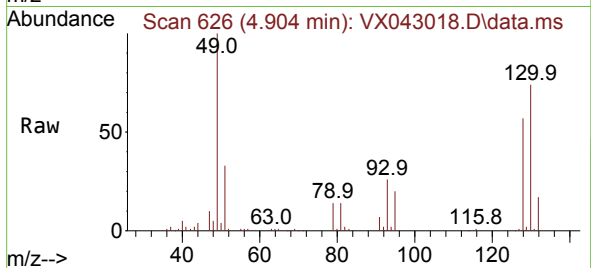
Quant Time: Aug 14 04:34:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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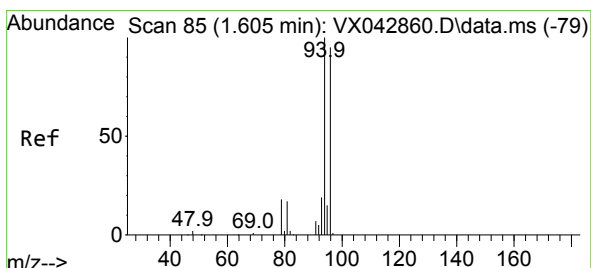
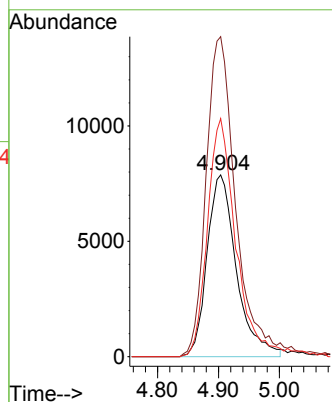
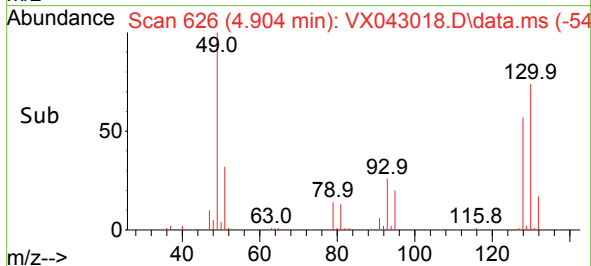


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

Instrument :
MSVOA_X
ClientSampleId :

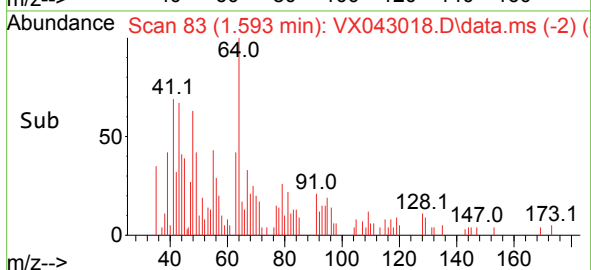
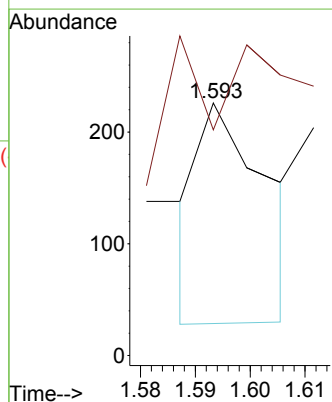
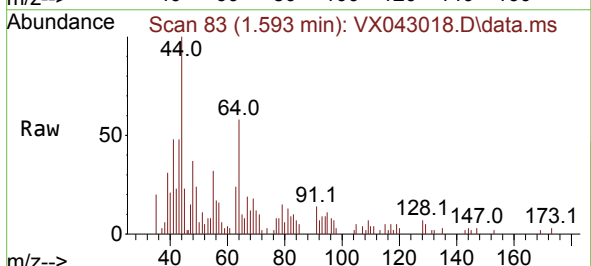


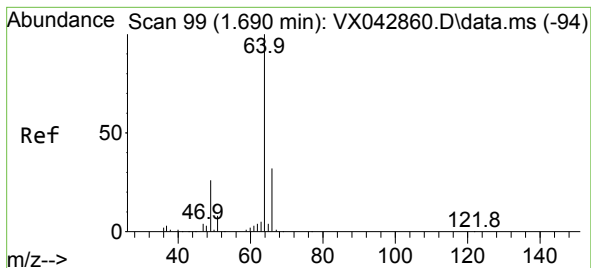
Tgt Ion:128 Resp: 26382
Ion Ratio Lower Upper
128 100
49 174.9 0.0 400.5
130 126.0 0.0 333.0



#5
Bromomethane
Concen: 0.306 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.006 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

Tgt Ion: 94 Resp: 169
Ion Ratio Lower Upper
94 100
96 0.0 76.2 114.4#





#6

Chloroethane

Concen: 0.730 ug/l

RT: 2.093 min Scan# 1

Delta R.T. 0.427 min

Lab File: VX043018.D

Acq: 13 Aug 2024 16:29

Instrument :

MSVOA_X

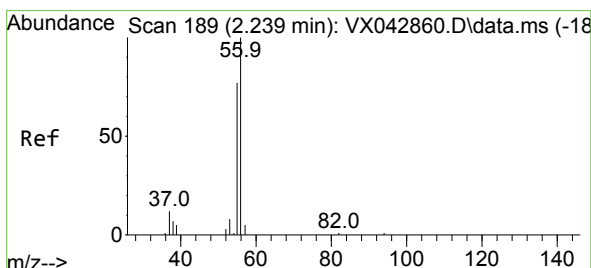
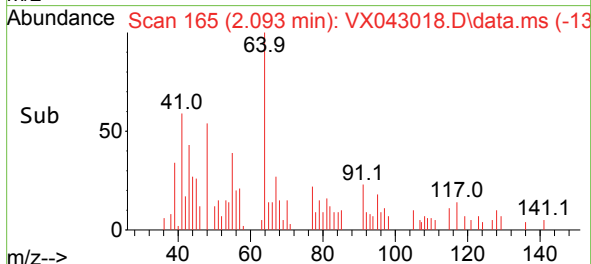
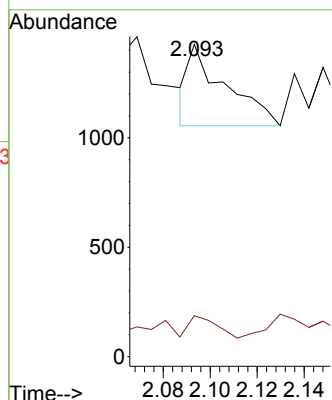
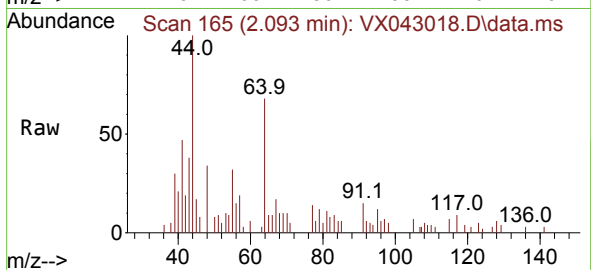
ClientSampleId :

Tgt Ion: 64 Resp: 409

Ion Ratio Lower Upper

64 100

66 26.1 25.9 38.9



#13

Acrolein

Concen: 0.478 ug/l

RT: 2.240 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX043018.D

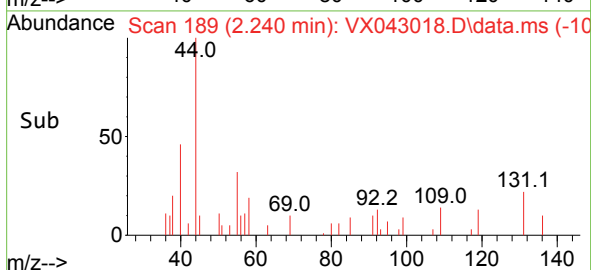
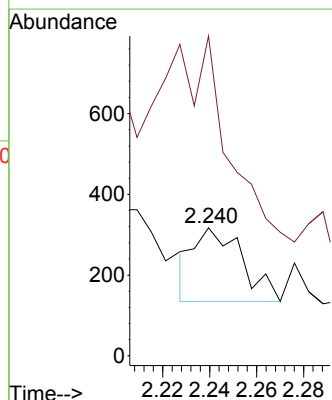
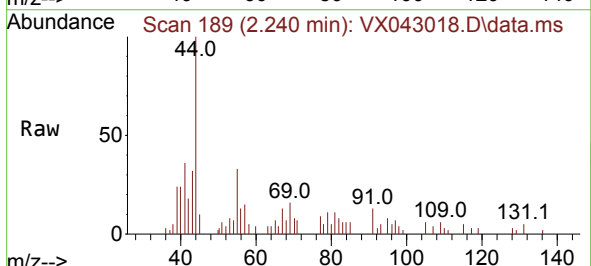
Acq: 13 Aug 2024 16:29

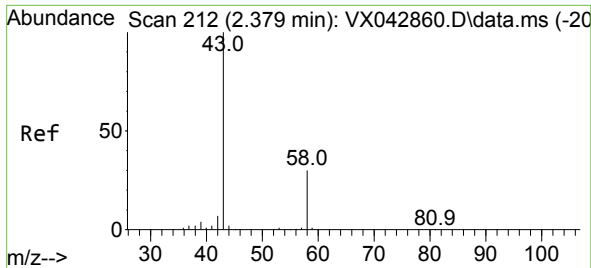
Tgt Ion: 56 Resp: 258

Ion Ratio Lower Upper

56 100

55 75.2 60.6 90.8





#15

Acetone

Concen: 159.506 ug/l

RT: 2.386 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX043018.D

Acq: 13 Aug 2024 16:29

Instrument :

MSVOA_X

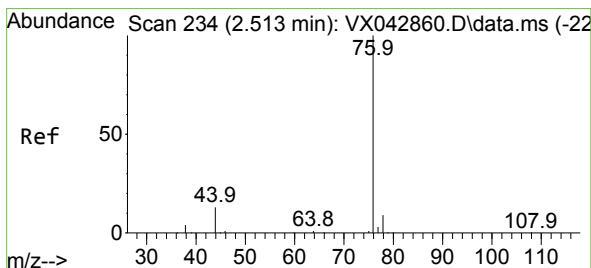
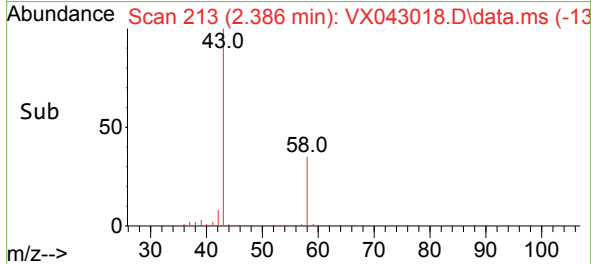
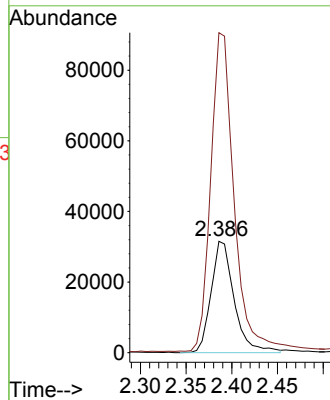
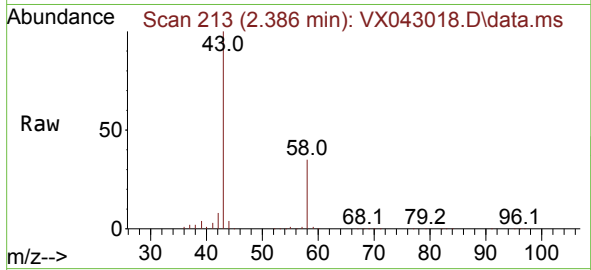
ClientSampleId :

Tgt Ion: 58 Resp: 55493

Ion Ratio Lower Upper

58 100

43 285.8 269.9 404.9



#16

Carbon Disulfide

Concen: 0.394 ug/l

RT: 2.508 min Scan# 233

Delta R.T. 0.006 min

Lab File: VX043018.D

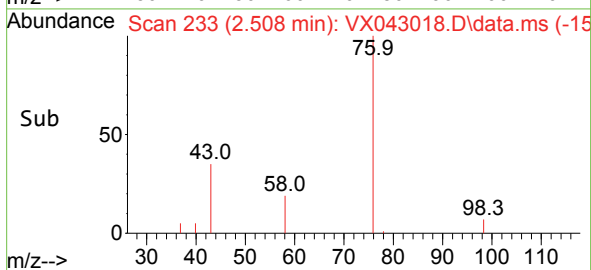
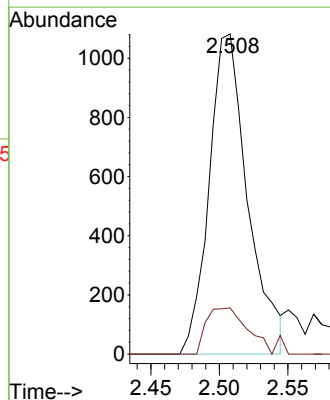
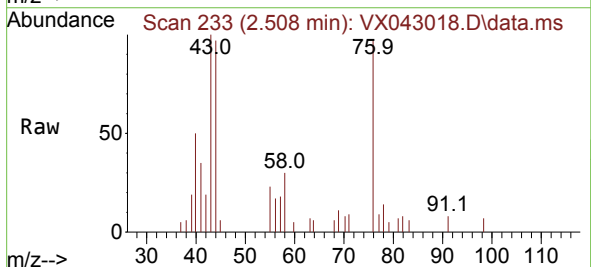
Acq: 13 Aug 2024 16:29

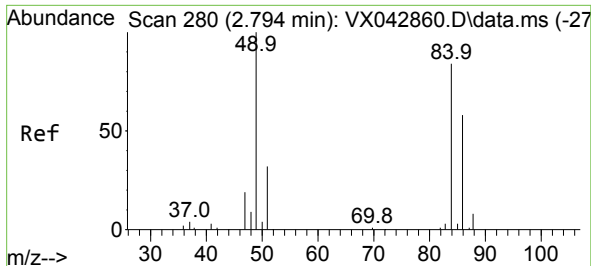
Tgt Ion: 76 Resp: 2118

Ion Ratio Lower Upper

76 100

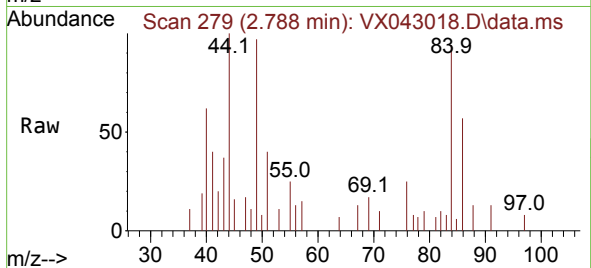
78 14.4 7.1 10.7#



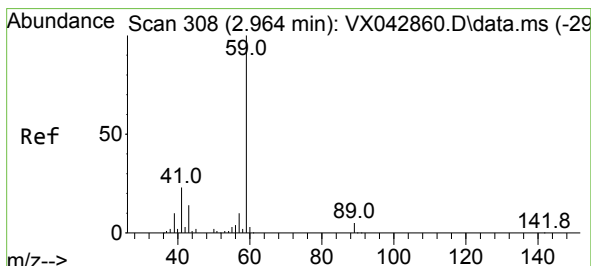
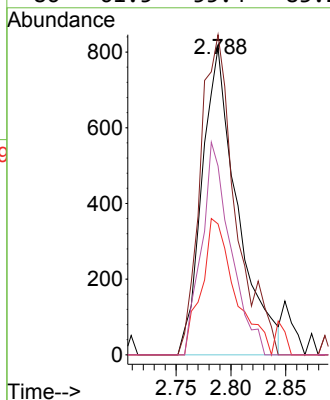
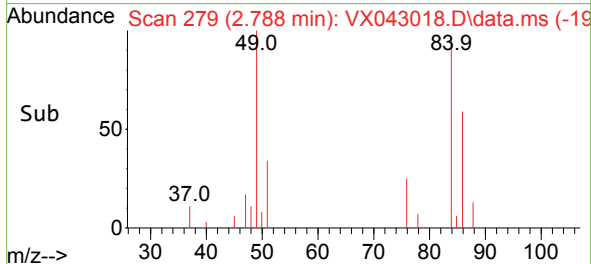


#18
Methylene Chloride
Concen: 0.864 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

Instrument :
MSVOA_X
ClientSampleId :

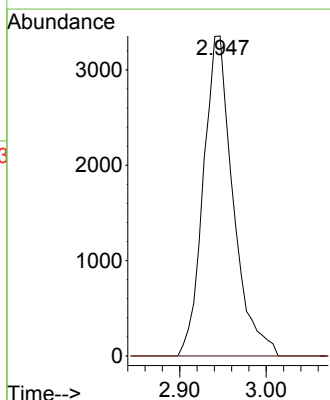
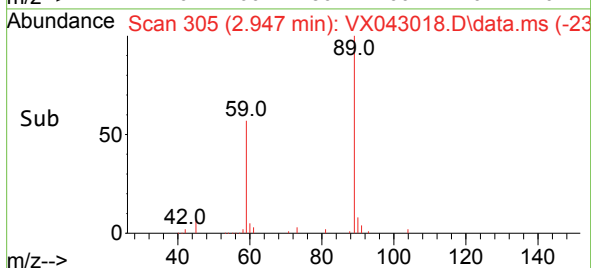
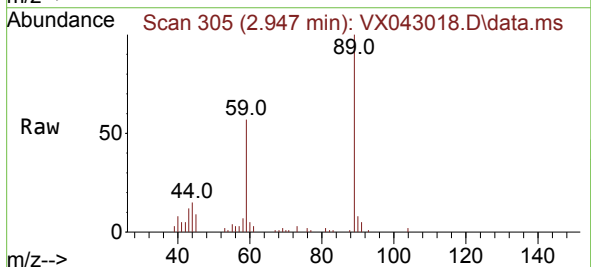


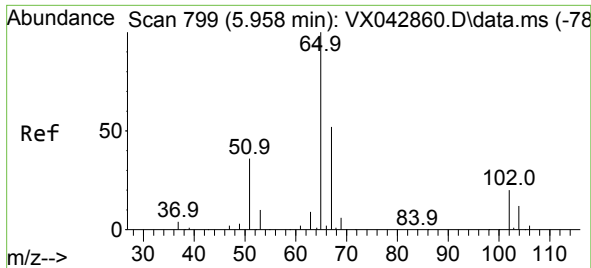
Tgt Ion:	84	Resp:	1819
Ion	Ratio	Lower	Upper
84	100		
49	104.2	95.0	142.6
51	42.6	30.1	45.1
86	61.5	55.4	83.2



#23
tert-Butyl Alcohol
Concen: 14.731 ug/l
RT: 2.947 min Scan# 305
Delta R.T. -0.049 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

Tgt Ion:	59	Resp:	7999
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1#





#27

1,2-Dichloroethane-d4

Concen: 26.848 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX043018.D

Acq: 13 Aug 2024 16:29

Instrument :

MSVOA_X

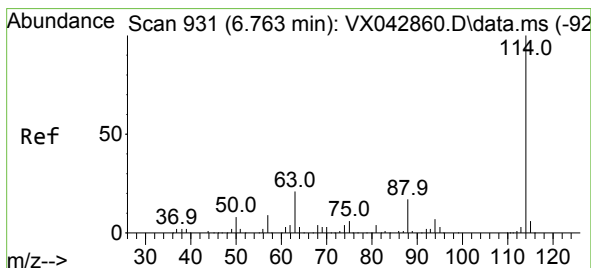
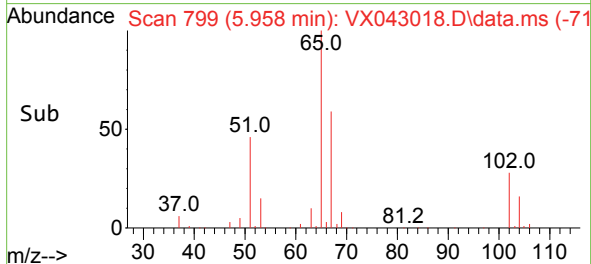
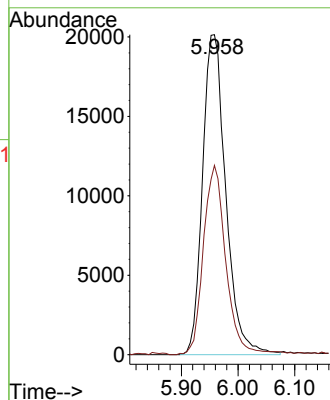
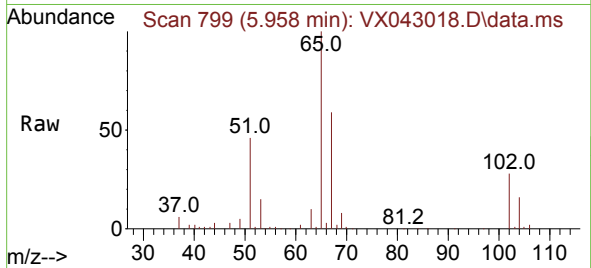
ClientSampleId :

Tgt Ion: 65 Resp: 57336

Ion Ratio Lower Upper

65 100

67 57.5 40.6 60.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.006 min

Lab File: VX043018.D

Acq: 13 Aug 2024 16:29

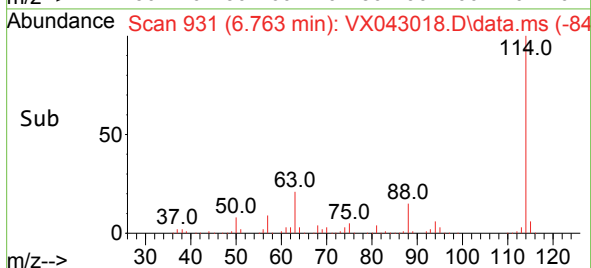
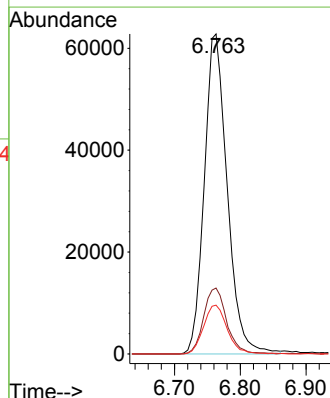
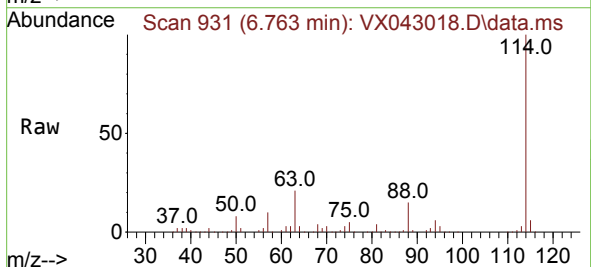
Tgt Ion:114 Resp: 152268

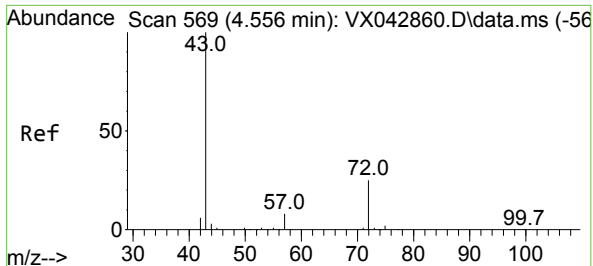
Ion Ratio Lower Upper

114 100

63 20.7 16.0 24.0

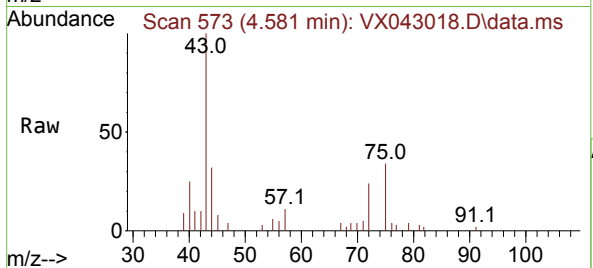
88 15.7 12.5 18.7



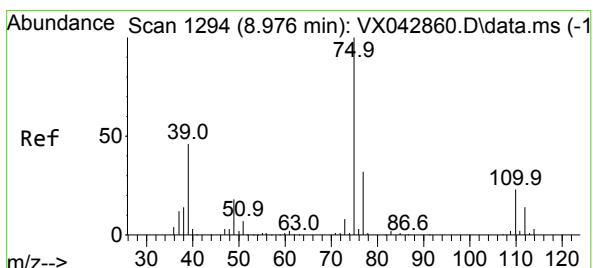
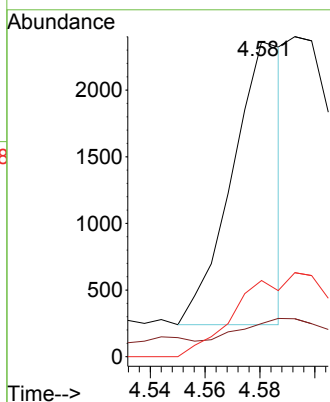
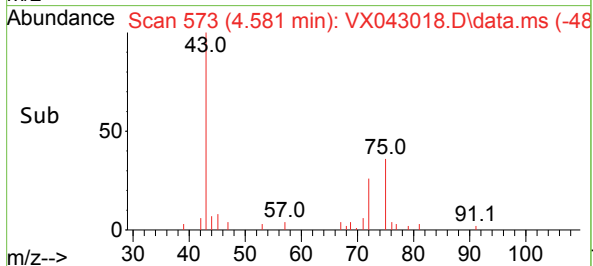


#30
2-Butanone
Concen: 1.633 ug/l
RT: 4.581 min Scan# 51
Delta R.T. 0.012 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

Instrument :
MSVOA_X
ClientSampleId :

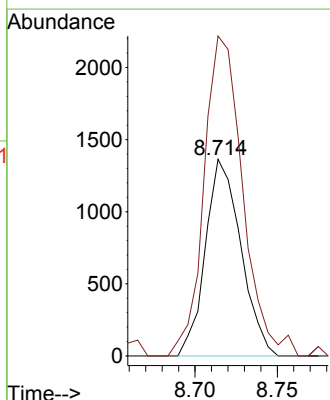
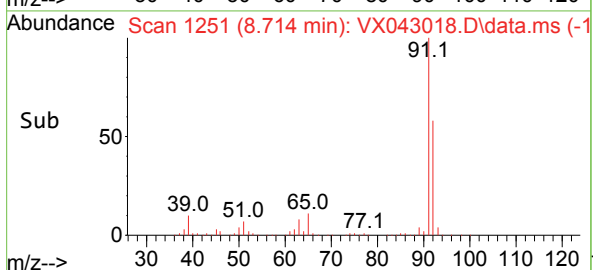
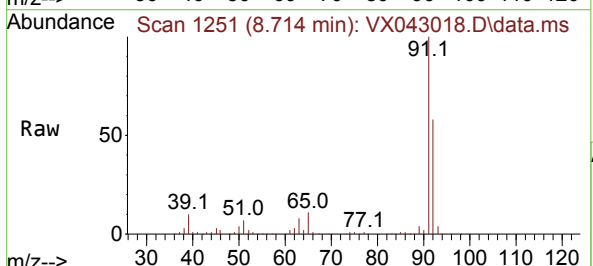


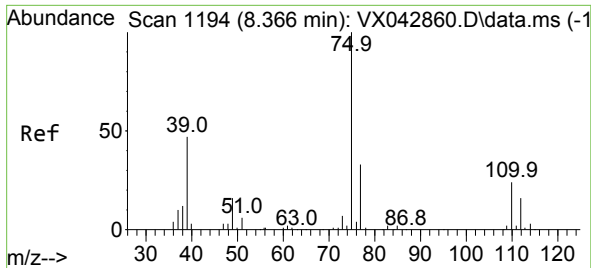
Tgt Ion: 43 Resp: 2735
Ion Ratio Lower Upper
43 100
57 14.9 6.6 10.0#
72 27.1 21.0 31.4



#48
t-1,3-Dichloropropene
Concen: 0.713 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.268 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

Tgt Ion: 75 Resp: 2042
Ion Ratio Lower Upper
75 100
77 157.2 25.6 38.4#

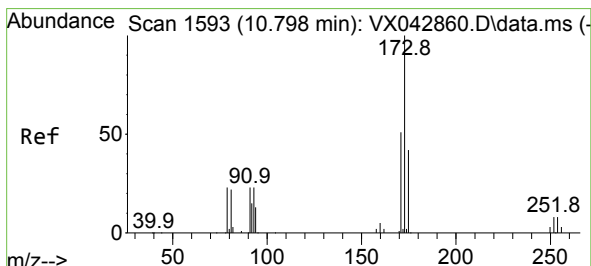
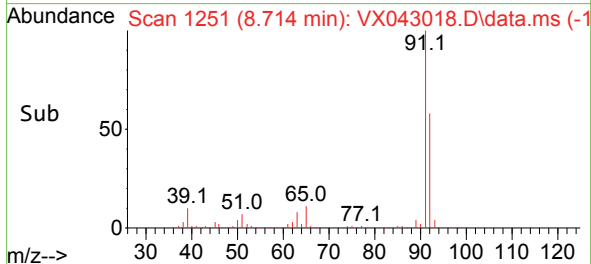
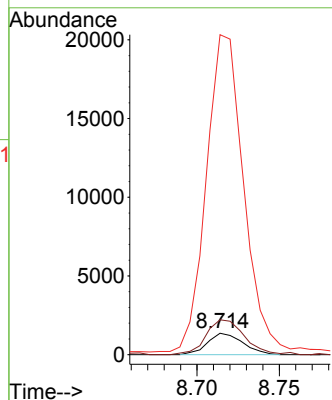
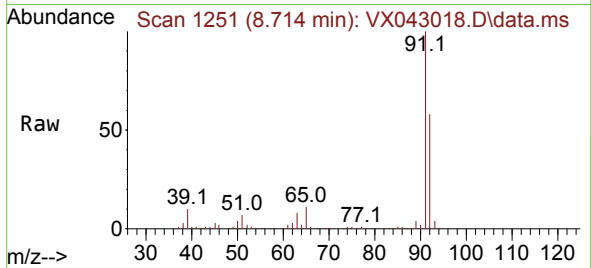




#49
 cis-1,3-Dichloropropene
 Concen: 0.654 ug/l
 RT: 8.714 min Scan# 11
 Delta R.T. 0.348 min
 Lab File: VX043018.D
 Acq: 13 Aug 2024 16:29

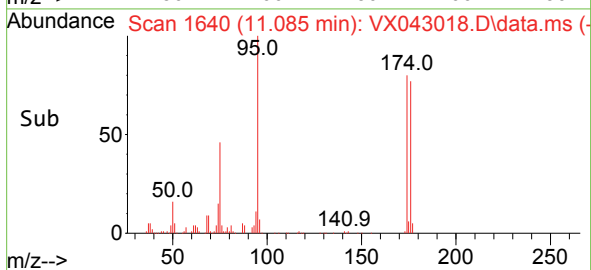
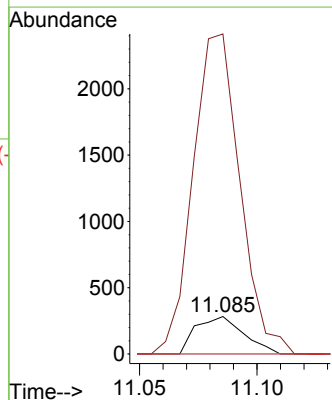
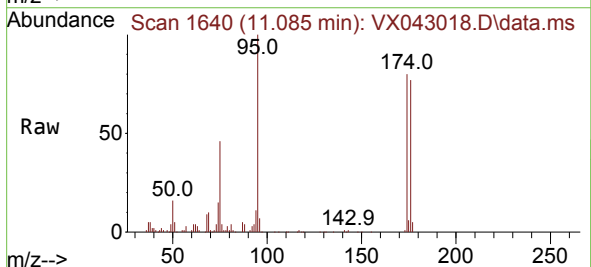
Instrument :
 MSVOA_X
 ClientSampleId :

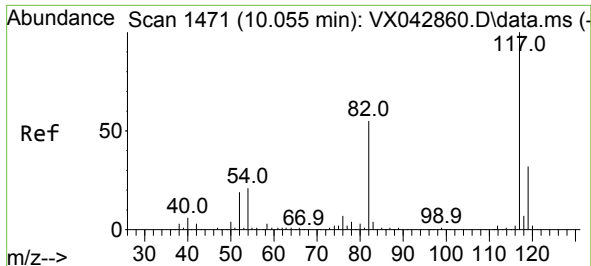
Tgt Ion: 75 Resp: 2042
 Ion Ratio Lower Upper
 75 100
 77 157.2 26.8 40.2#
 39 1455.7 37.5 56.3#



#56
 Bromoform
 Concen: 0.295 ug/l
 RT: 11.085 min Scan# 1640
 Delta R.T. 0.287 min
 Lab File: VX043018.D
 Acq: 13 Aug 2024 16:29

Tgt Ion: 173 Resp: 399
 Ion Ratio Lower Upper
 173 100
 175 841.1 37.1 55.7#
 254 0.0 6.6 10.0#

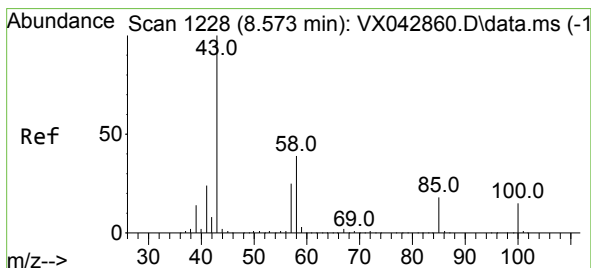
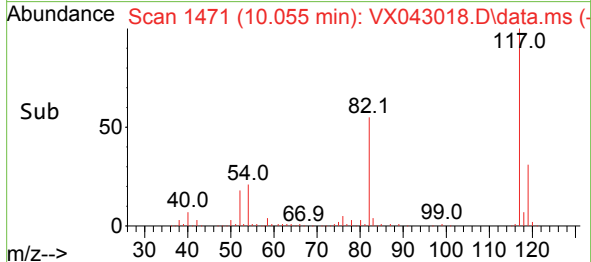
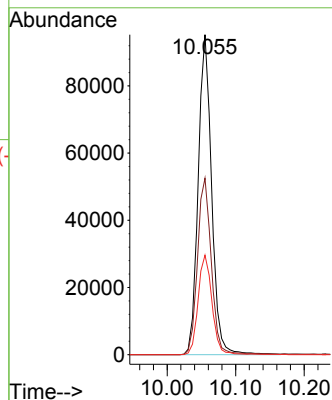
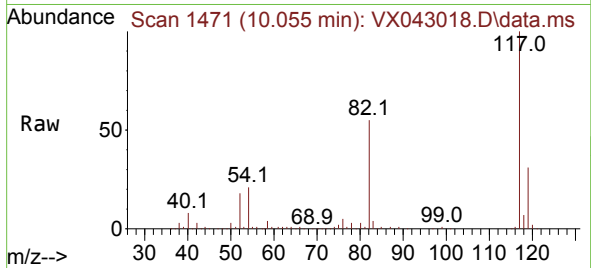




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

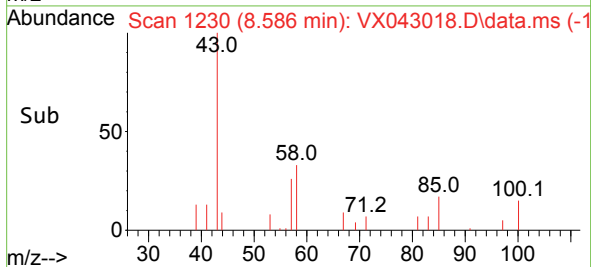
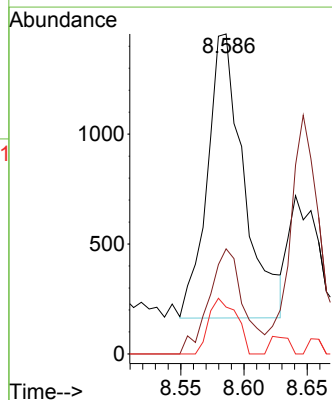
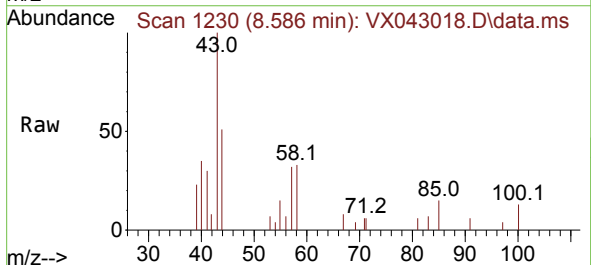
Instrument :
MSVOA_X
ClientSampleId :

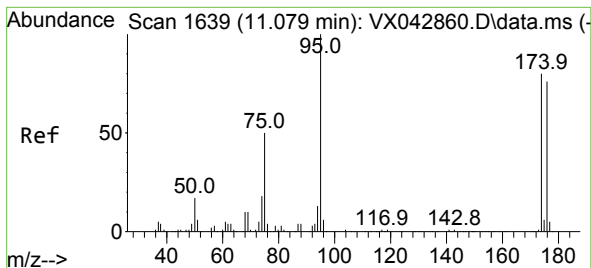
Tgt Ion:117 Resp: 130423
Ion Ratio Lower Upper
117 100
82 56.4 44.9 67.3
119 31.9 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 0.864 ug/l
RT: 8.586 min Scan# 1230
Delta R.T. 0.012 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

Tgt Ion: 43 Resp: 2606
Ion Ratio Lower Upper
43 100
58 34.9 31.4 47.0
85 14.8 14.6 21.8

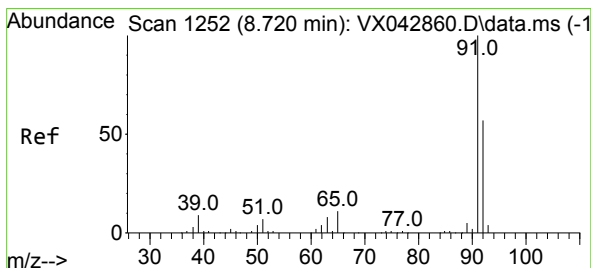
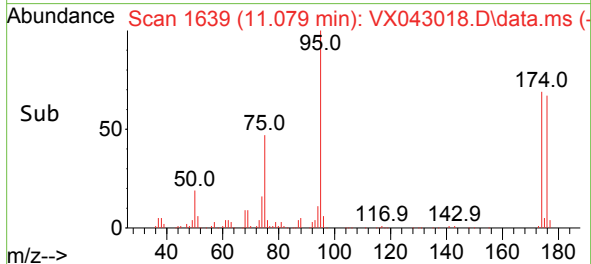
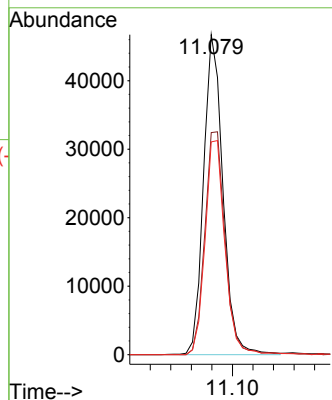
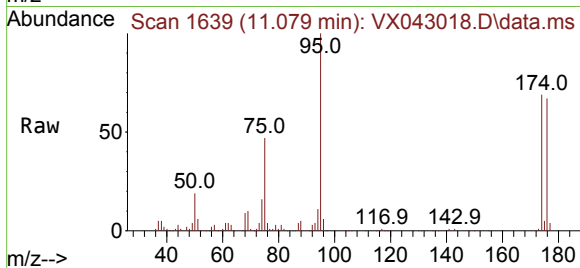




#60
4-Bromofluorobenzene
Concen: 27.654 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

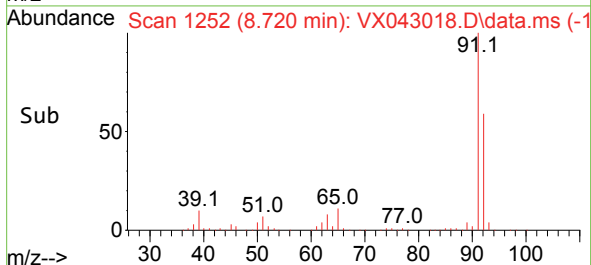
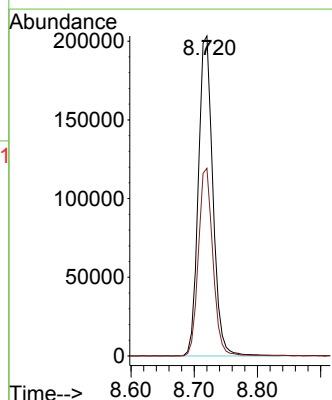
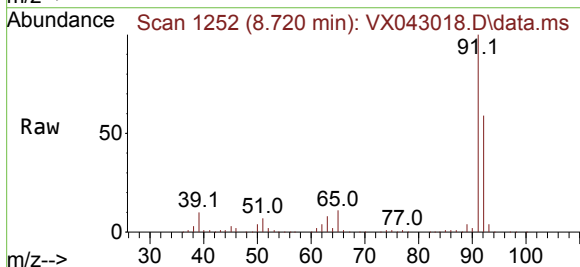
Instrument :
MSVOA_X
ClientSampleId :

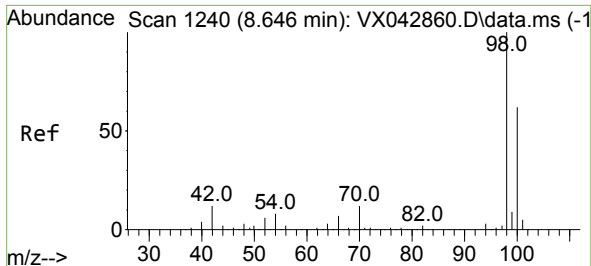
Tgt Ion: 95 Resp: 61229
Ion Ratio Lower Upper
95 100
174 72.9 65.0 97.6
176 68.5 63.4 95.0



#62
Toluene
Concen: 43.701 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

Tgt Ion: 91 Resp: 325579
Ion Ratio Lower Upper
91 100
92 58.3 45.7 68.5

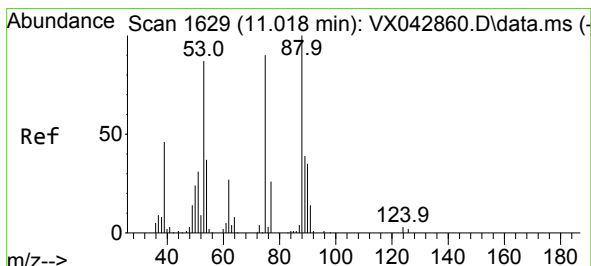
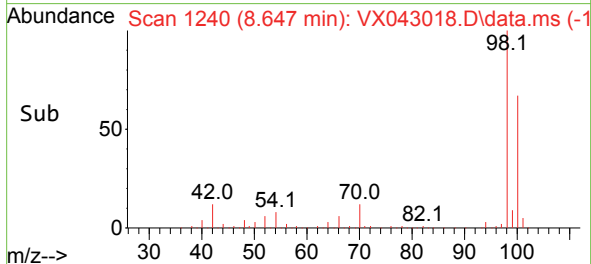
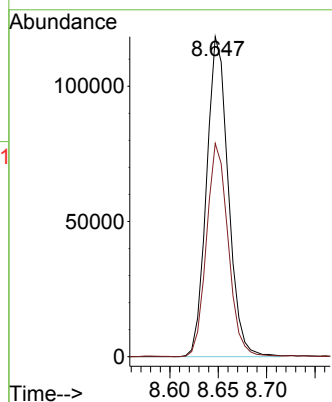
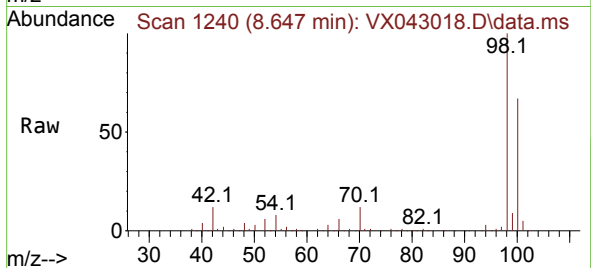




#63
Toluene-d8
Concen: 30.859 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

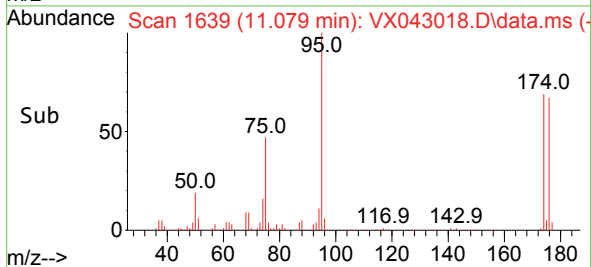
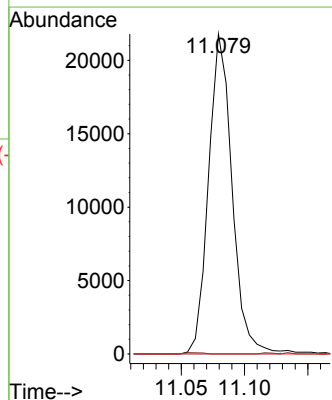
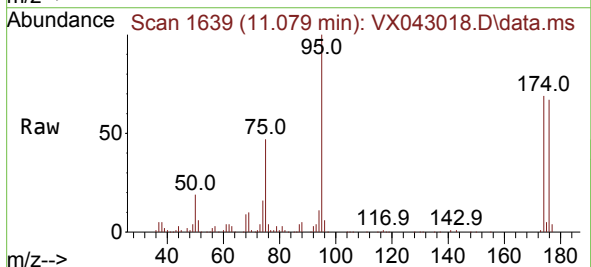
Instrument :
MSVOA_X
ClientSampleId :

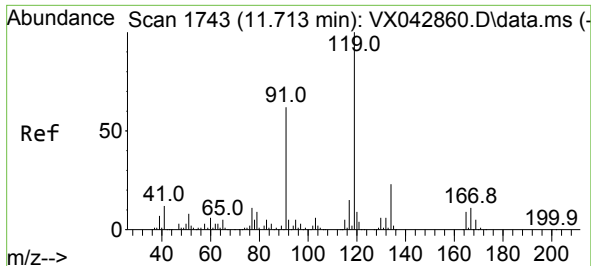
Tgt Ion: 98 Resp: 184886
Ion Ratio Lower Upper
98 100
100 66.5 50.9 76.3



#77
t-1,4-Dichloro-2-butene
Concen: 25.044 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

Tgt Ion: 75 Resp: 28166
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.5#
89 0.0 21.9 65.5#

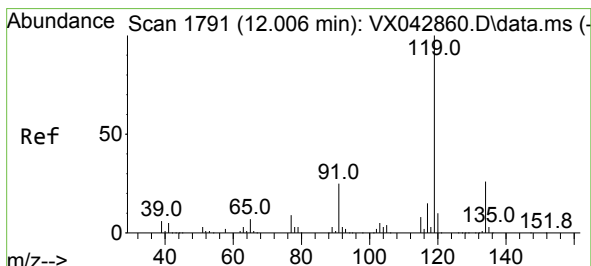
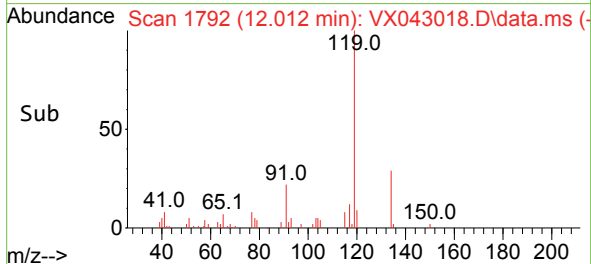
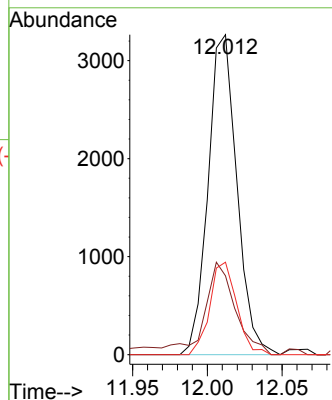
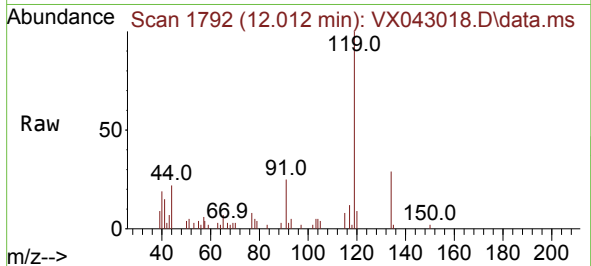




#79
tert-butylbenzene
Concen: 0.693 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.299 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion:119 Resp: 4376
Ion Ratio Lower Upper
119 100
91 28.3 0.0 118.6
134 27.0 0.0 44.4



#82
p-Isopropyltoluene
Concen: 0.678 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX043018.D
Acq: 13 Aug 2024 16:29

Tgt Ion:119 Resp: 4376
Ion Ratio Lower Upper
119 100
134 27.0 0.0 51.8
91 28.3 0.0 48.4

