

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081624\
 Data File : VX043065.D
 Acq On : 16 Aug 2024 10:56
 Operator : JC/MD
 Sample : P3606-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 16 23:52:46 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

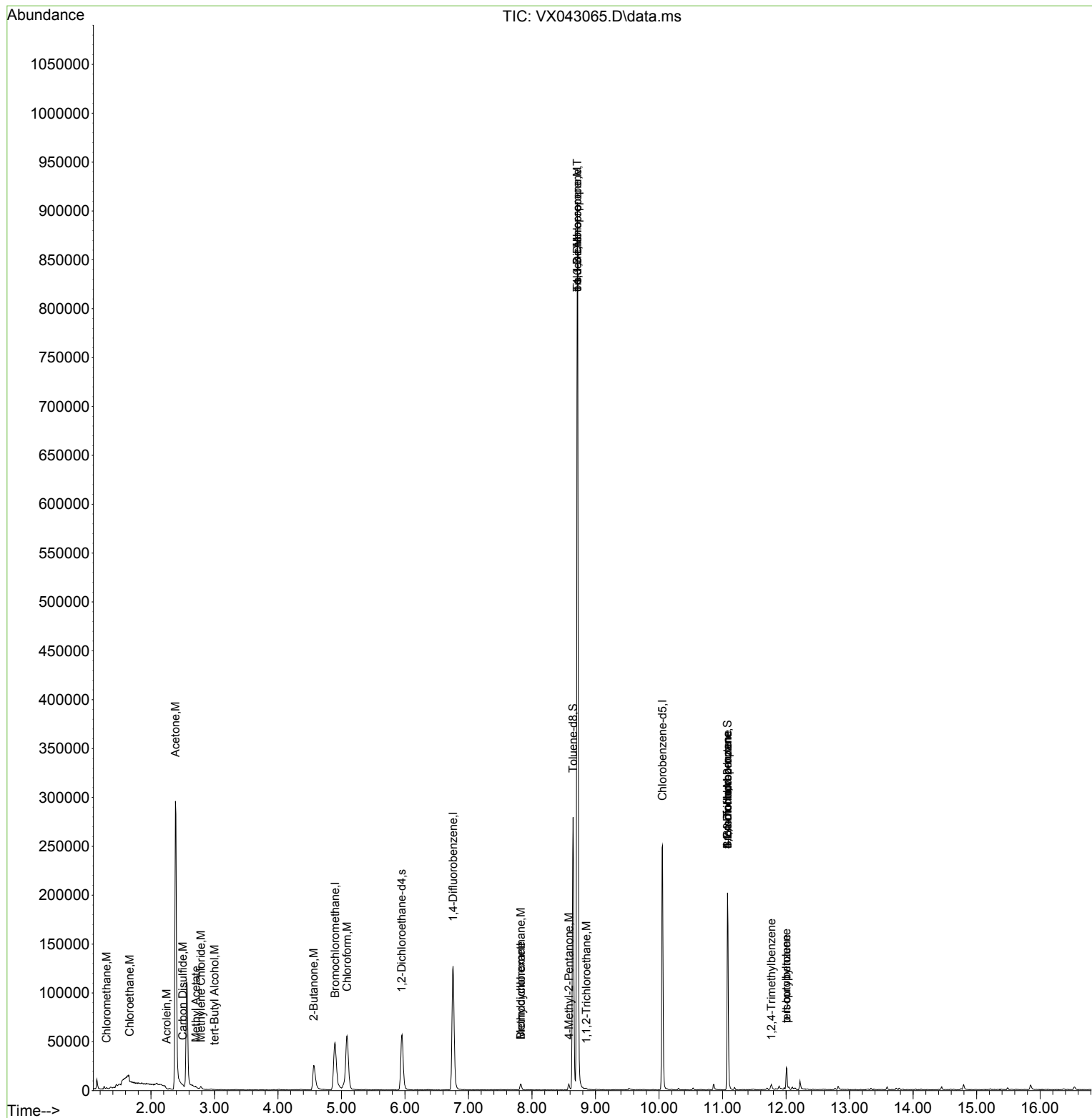
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.897	128	22752	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	135362	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	119385	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	52875	28.709	ug/l	-0.01
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.700%
60) 4-Bromofluorobenzene	11.079	95	55648	27.457	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	91.533%
63) Toluene-d8	8.647	98	164991	30.085	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.267%
Target Compounds						
					Qvalue	
3) Chloromethane	1.301	50	1008	0.517	ug/l	95
6) Chloroethane	1.666	64	454	0.939	ug/l #	58
12) Methyl Acetate	2.709	43	1660	0.586	ug/l #	88
13) Acrolein	2.245	56	178	0.382	ug/l	92
15) Acetone	2.386	58	111167	370.512	ug/l	81
16) Carbon Disulfide	2.502	76	1297	0.280	ug/l #	87
18) Methylene Chloride	2.788	84	1269	0.699	ug/l #	89
23) tert-Butyl Alcohol	3.001	59	213	0.455	ug/l #	100
25) Chloroform	5.086	83	64055	21.383	ug/l	97
30) 2-Butanone	4.562	43	48033	32.267	ug/l	99
38) Methylcyclohexane	7.824	83	4367	1.531	ug/l #	19
41) Bromodichloromethane	7.824	83	4527	1.974	ug/l	99
48) t-1,3-Dichloropropene	8.714	75	3707	1.457	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	3707	1.335	ug/l #	1
50) 1,1,2-Trichloroethane	8.854	97	901	0.569	ug/l #	21
56) Bromoform	11.079	173	401	0.334	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	4172	1.511	ug/l	96
62) Toluene	8.714	91	591773	86.775	ug/l	98
72) 1,2,3-Trichloropropane	11.079	75	27760	12.588	ug/l	33
77) t-1,4-Dichloro-2-butene	11.079	75	27760	26.965	ug/l #	11
79) tert-butylbenzene	12.006	119	10418	1.803	ug/l	64
80) 1,2,4-Trimethylbenzene	11.768	105	1591	0.275	ug/l	57
82) p-Isopropyltoluene	12.006	119	10418	1.764	ug/l	99

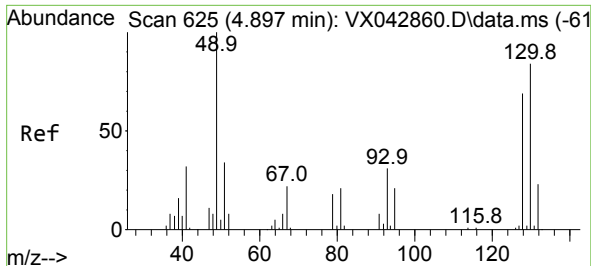
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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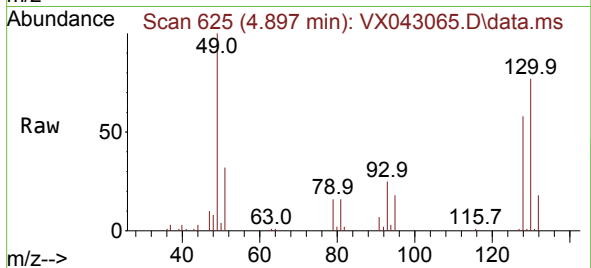
Quant Time: Aug 16 23:52:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Aug 13 13:22:56 2024
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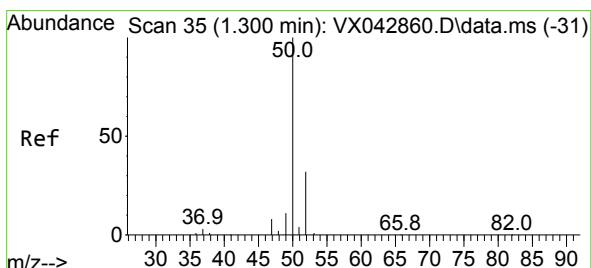
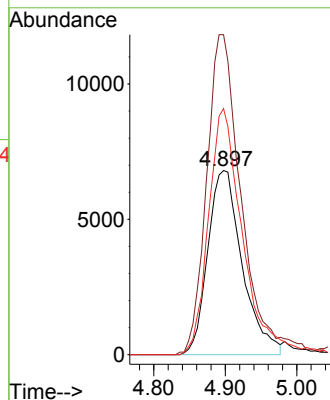
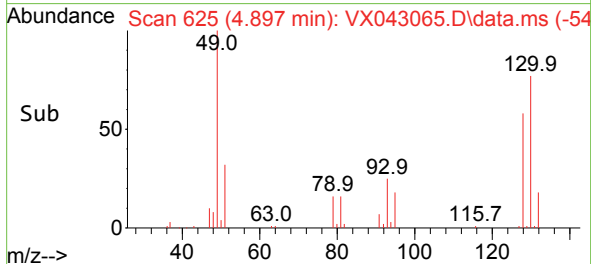


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.001 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

Instrument :
MSVOA_X
ClientSampleId :

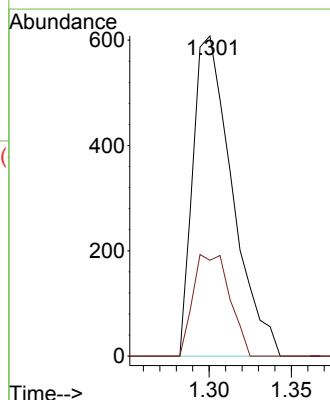
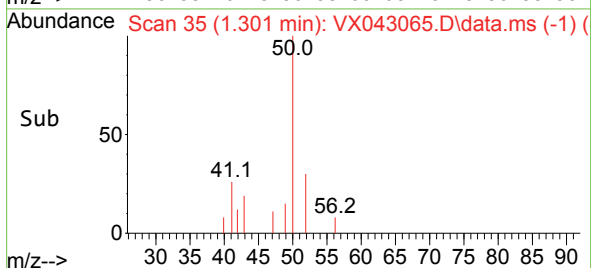
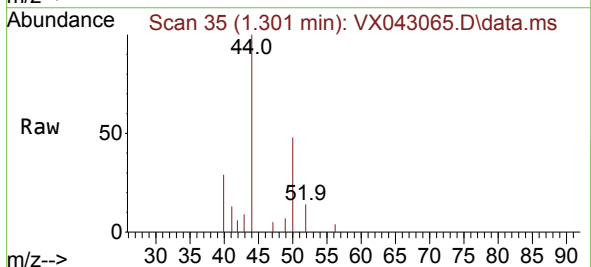


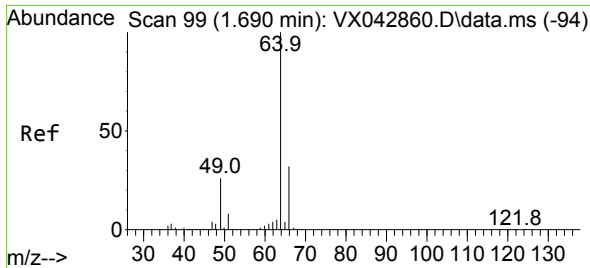
Tgt Ion:128 Resp: 22752
Ion Ratio Lower Upper
128 100
49 169.7 0.0 400.5
130 131.2 0.0 333.0



#3
Chloromethane
Concen: 0.517 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.006 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

Tgt Ion: 50 Resp: 1008
Ion Ratio Lower Upper
50 100
52 29.9 26.0 39.0

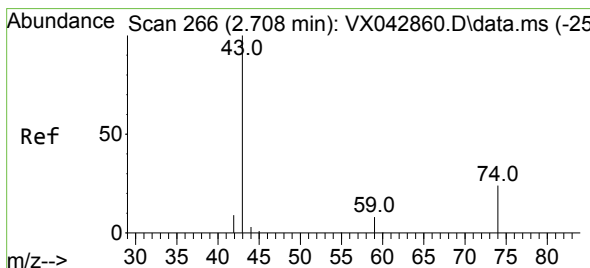
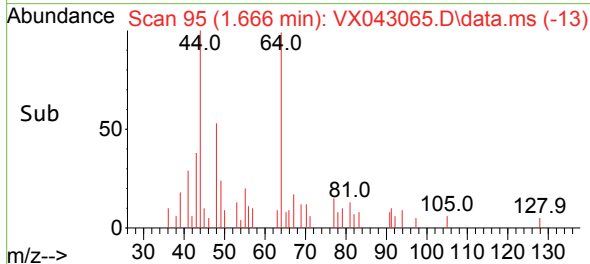
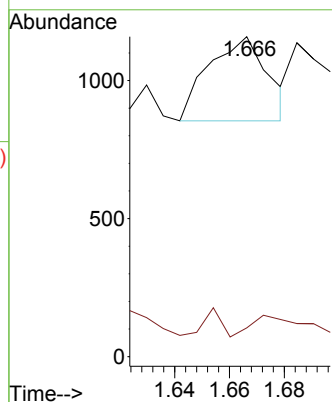
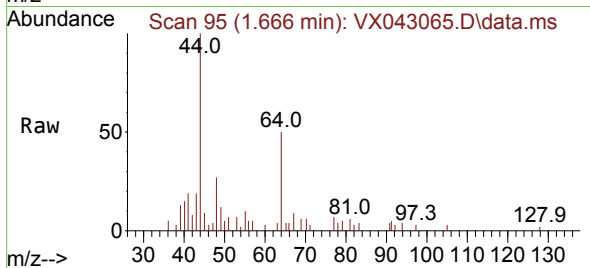




#6
Chloroethane
Concen: 0.939 ug/l
RT: 1.666 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

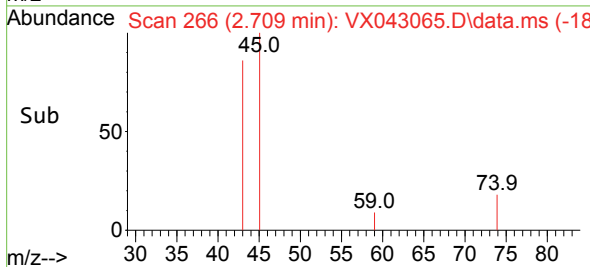
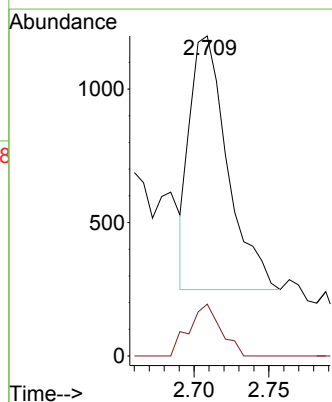
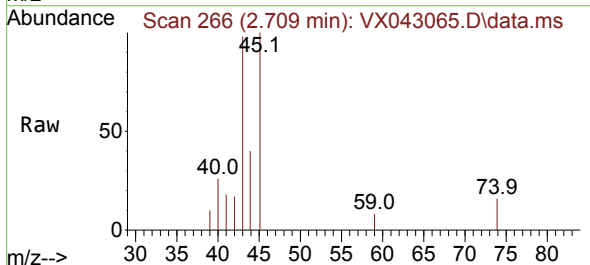
Instrument :
MSVOA_X
ClientSampleId :

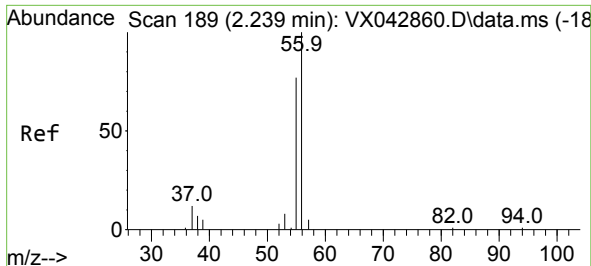
Tgt Ion: 64 Resp: 454
Ion Ratio Lower Upper
64 100
66 8.9 25.9 38.9#



#12
Methyl Acetate
Concen: 0.586 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

Tgt Ion: 43 Resp: 1660
Ion Ratio Lower Upper
43 100
74 18.3 19.4 29.2#





#13

Acrolein

Concen: 0.382 ug/l

RT: 2.245 min Scan# 190

Delta R.T. 0.006 min

Lab File: VX043065.D

Acq: 16 Aug 2024 10:56

Instrument :

MSVOA_X

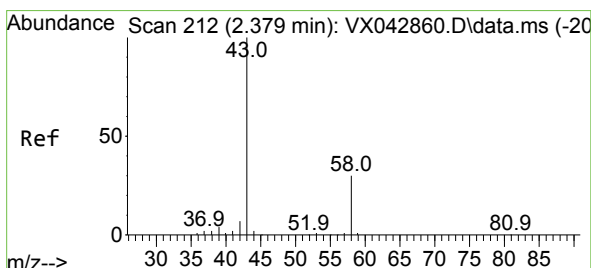
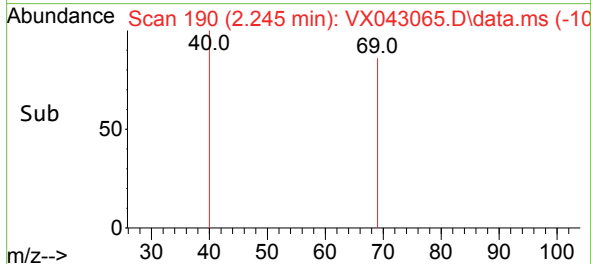
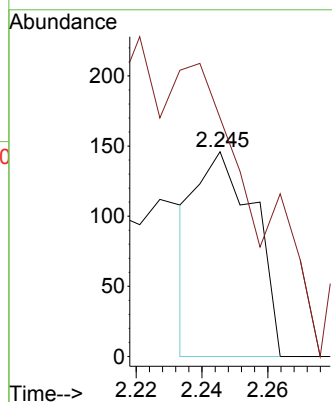
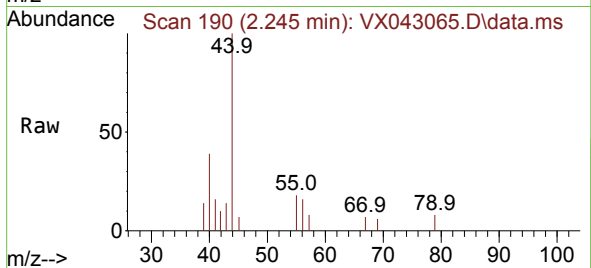
ClientSampleId :

Tgt Ion: 56 Resp: 178

Ion Ratio Lower Upper

56 100

55 82.6 60.6 90.8



#15

Acetone

Concen: 370.512 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX043065.D

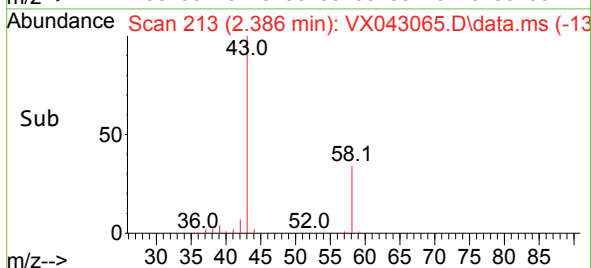
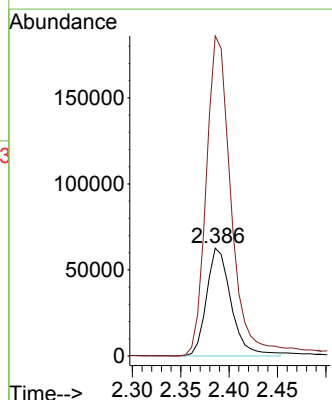
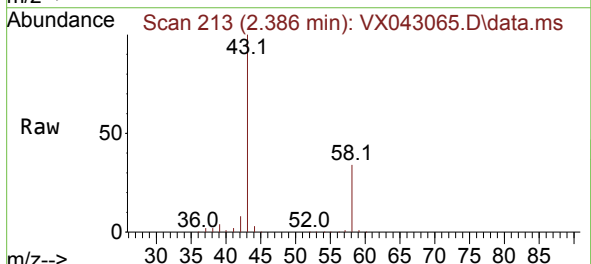
Acq: 16 Aug 2024 10:56

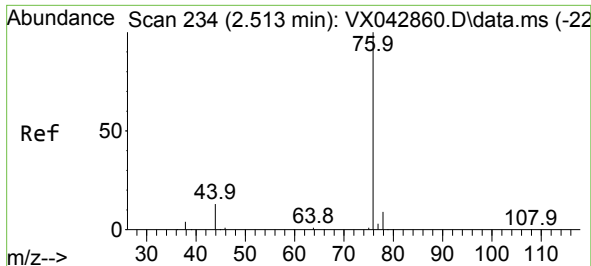
Tgt Ion: 58 Resp: 111167

Ion Ratio Lower Upper

58 100

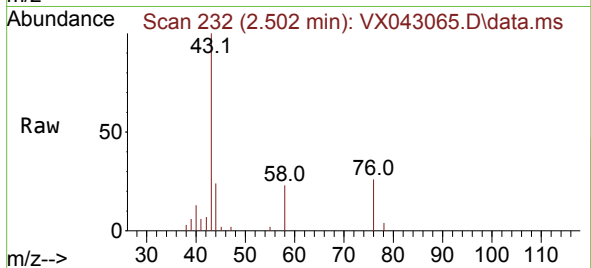
43 296.3 269.9 404.9



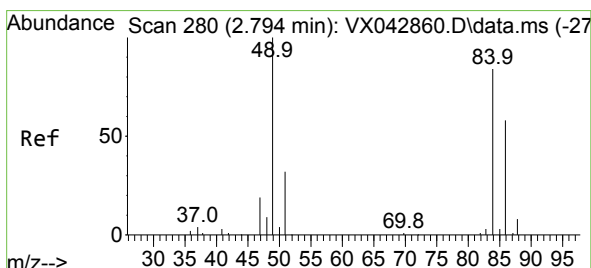
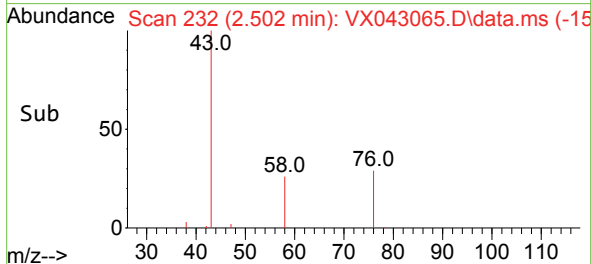
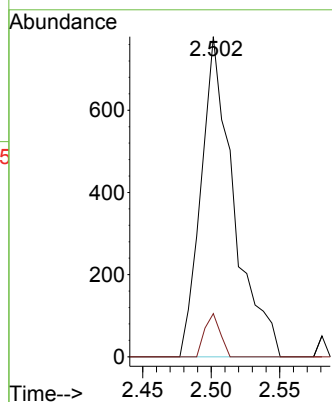


#16
Carbon Disulfide
Concen: 0.280 ug/l
RT: 2.502 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

Instrument :
MSVOA_X
ClientSampleId :

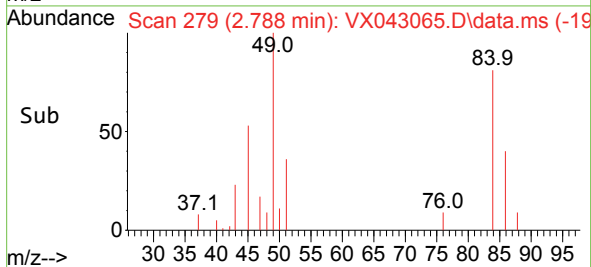
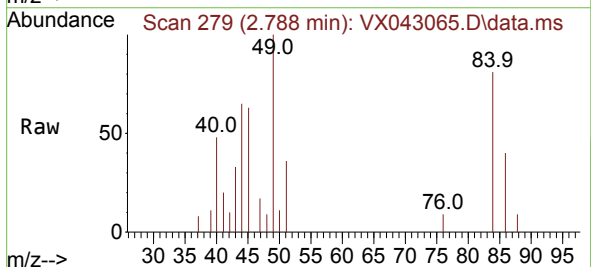
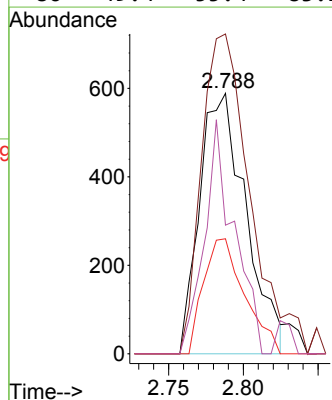


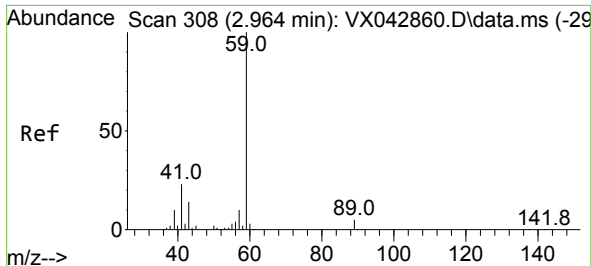
Tgt Ion: 76 Resp: 1297
Ion Ratio Lower Upper
76 100
78 13.5 7.1 10.7#



#18
Methylene Chloride
Concen: 0.699 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

Tgt Ion: 84 Resp: 1269
Ion Ratio Lower Upper
84 100
49 122.8 95.0 142.6
51 44.1 30.1 45.1
86 49.4 55.4 83.2#

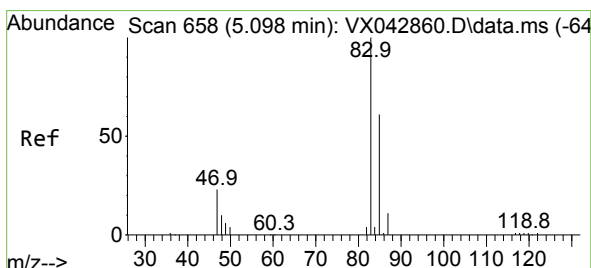
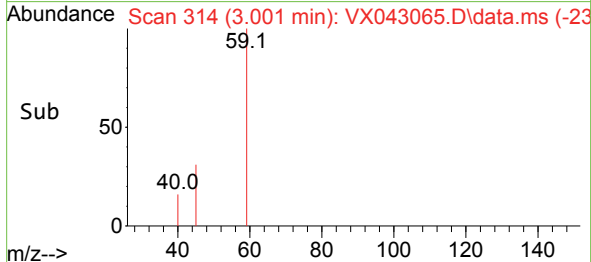
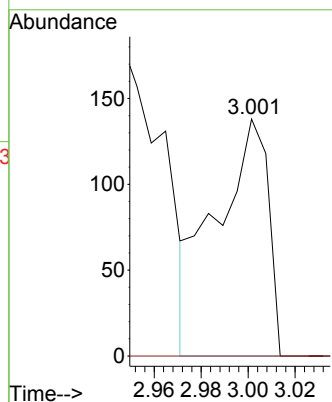
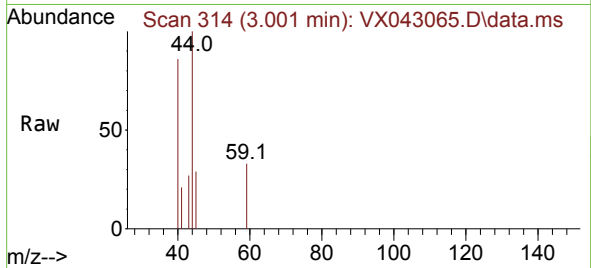




#23
tert-Butyl Alcohol
Concen: 0.455 ug/l
RT: 3.001 min Scan# 314
Delta R.T. 0.006 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

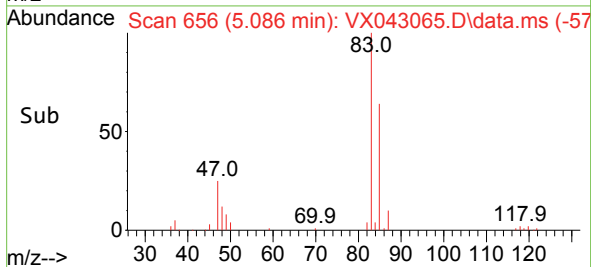
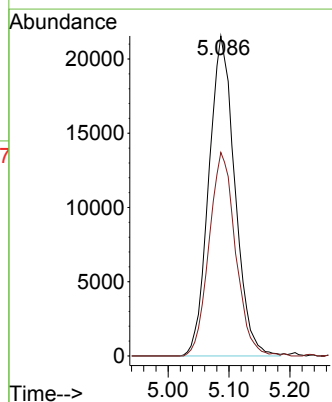
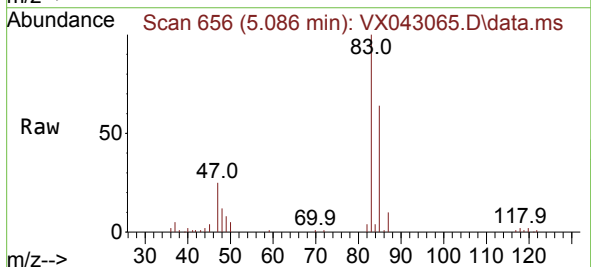
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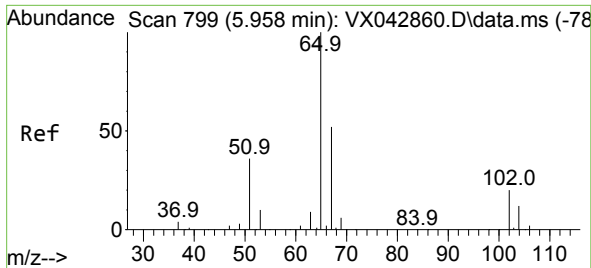
Tgt Ion: 59 Resp: 213
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#25
Chloroform
Concen: 21.383 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.006 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

Tgt Ion: 83 Resp: 64055
Ion Ratio Lower Upper
83 100
85 63.6 49.2 73.8





#27

1,2-Dichloroethane-d4

Concen: 28.709 ug/l

RT: 5.946 min Scan# 799

Delta R.T. -0.012 min

Lab File: VX043065.D

Acq: 16 Aug 2024 10:56

Instrument :

MSVOA_X

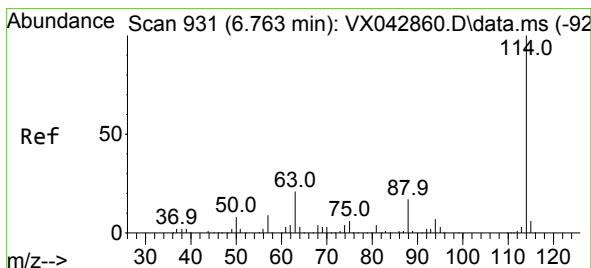
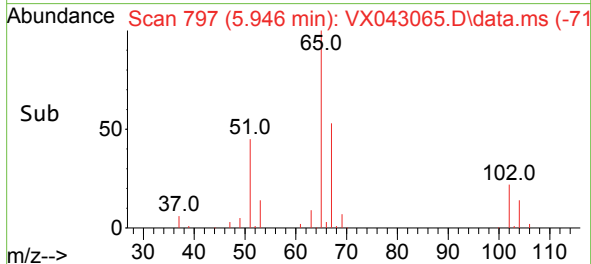
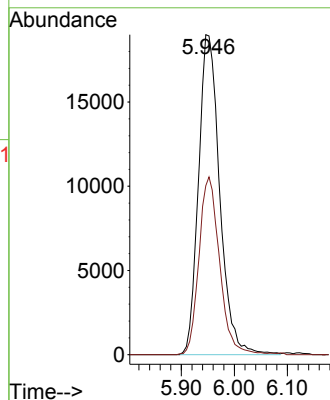
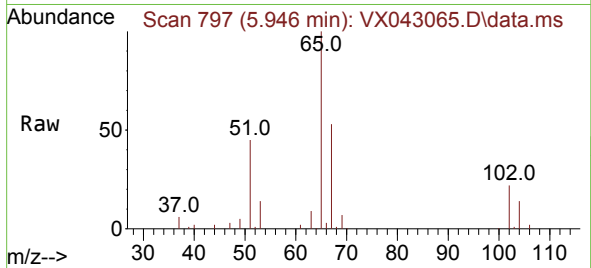
ClientSampleId :

Tgt Ion: 65 Resp: 52875

Ion Ratio Lower Upper

65 100

67 54.0 40.6 60.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX043065.D

Acq: 16 Aug 2024 10:56

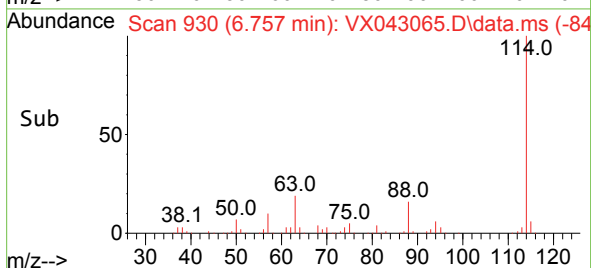
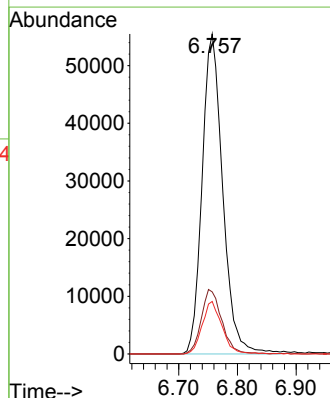
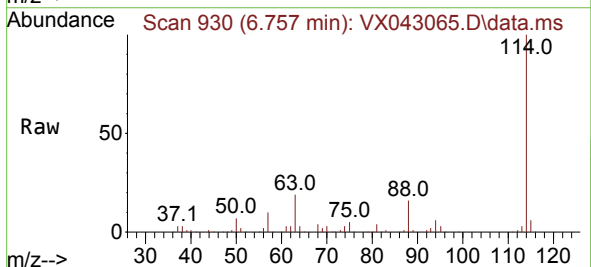
Tgt Ion:114 Resp: 135362

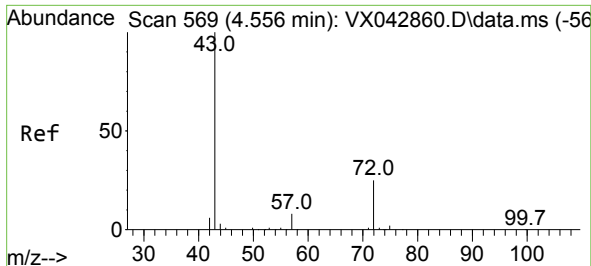
Ion Ratio Lower Upper

114 100

63 20.0 16.0 24.0

88 15.6 12.5 18.7

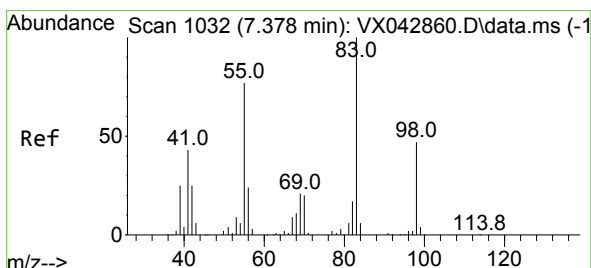
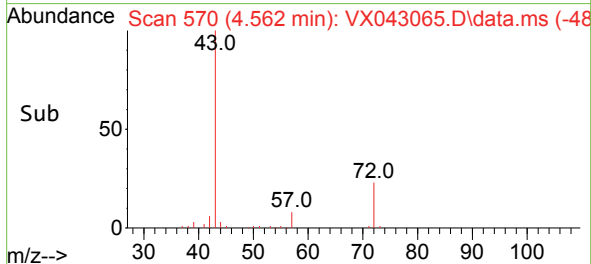
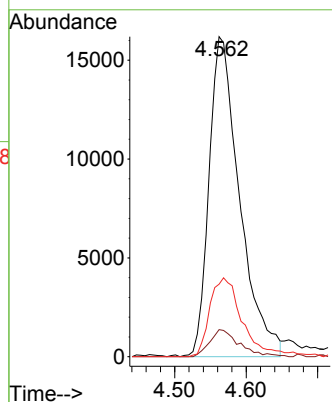
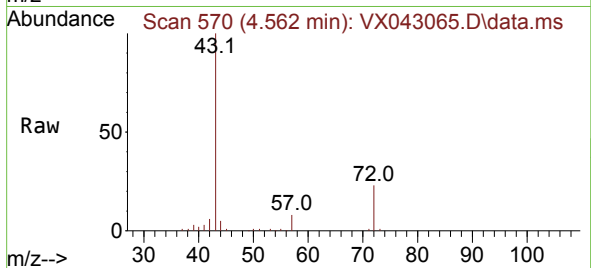




#30
2-Butanone
Concen: 32.267 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.006 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

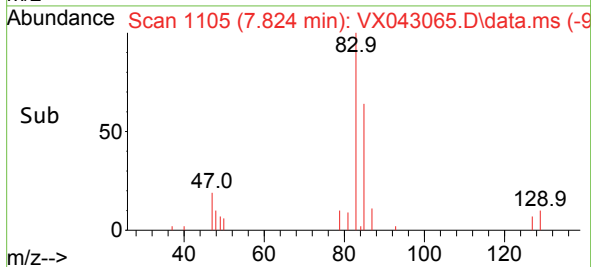
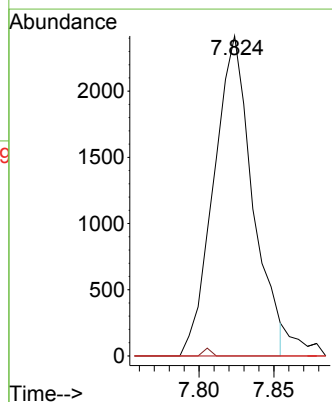
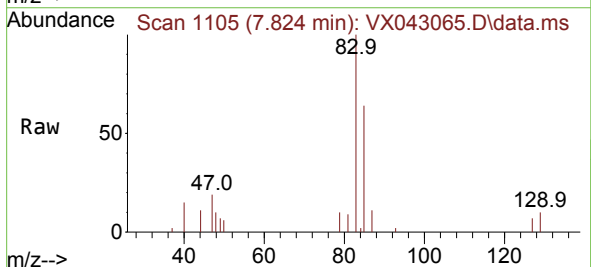
Instrument :
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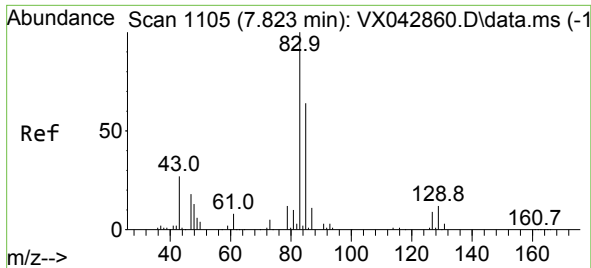
Tgt Ion: 43 Resp: 48033
Ion Ratio Lower Upper
43 100
57 7.9 6.6 10.0
72 25.8 21.0 31.4



#38
Methylcyclohexane
Concen: 1.531 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.445 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

Tgt Ion: 83 Resp: 4367
Ion Ratio Lower Upper
83 100
55 0.9 38.0 113.9#
98 0.0 23.4 70.2#

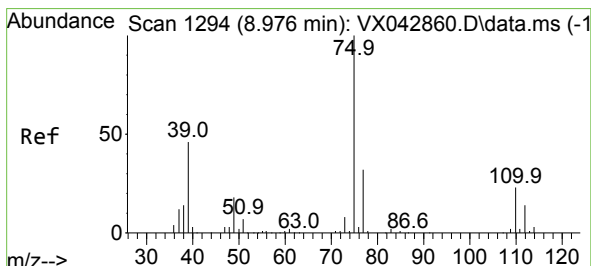
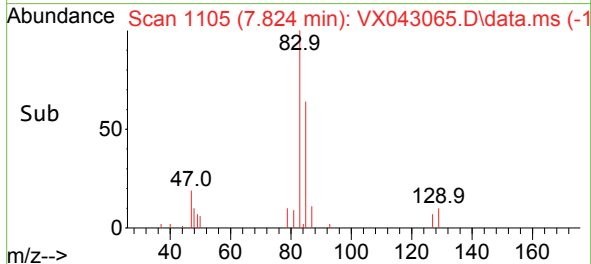
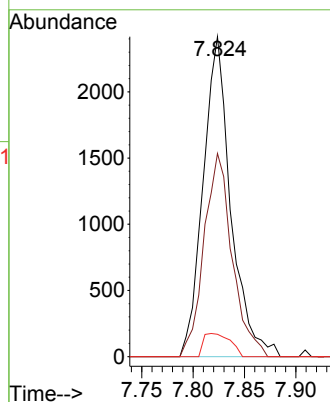
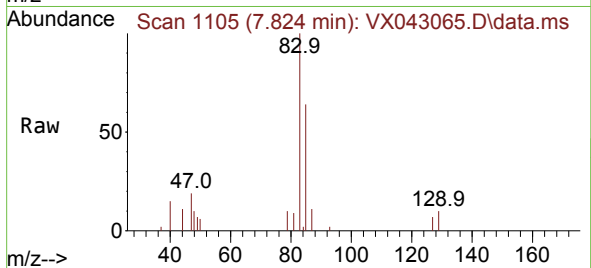




#41
Bromodichloromethane
Concen: 1.974 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. -0.000 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

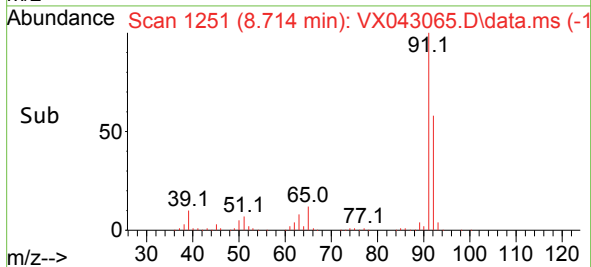
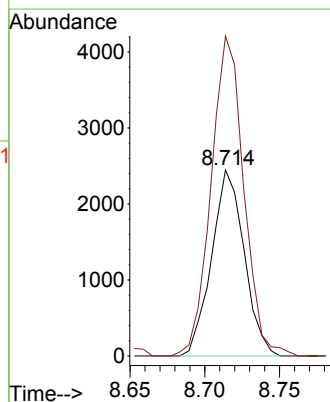
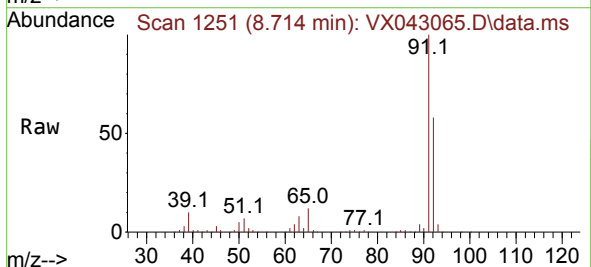
Instrument :
MSVOA_X
ClientSampleId :

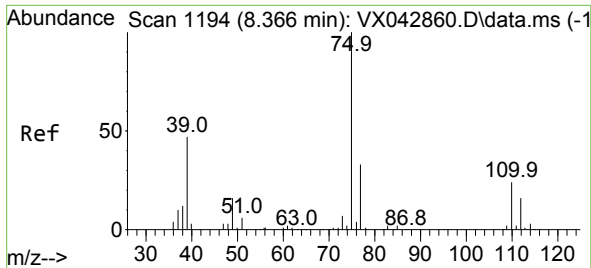
Tgt Ion: 83 Resp: 4527
Ion Ratio Lower Upper
83 100
85 63.5 50.8 76.2
127 7.0 6.9 10.3



#48
t-1,3-Dichloropropene
Concen: 1.457 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.268 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

Tgt Ion: 75 Resp: 3707
Ion Ratio Lower Upper
75 100
77 169.8 25.6 38.4#

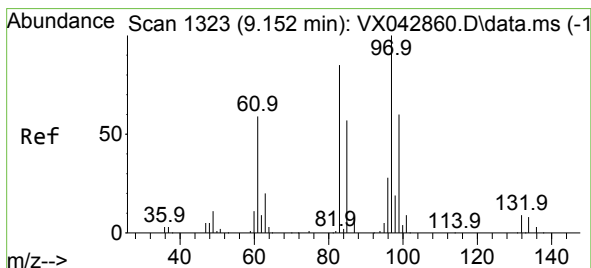
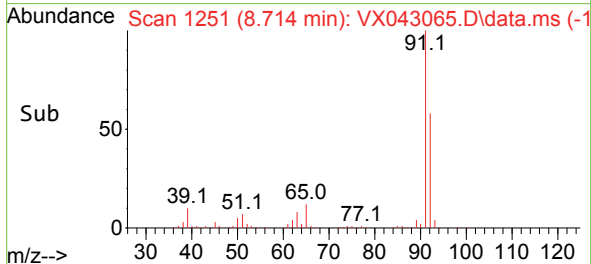
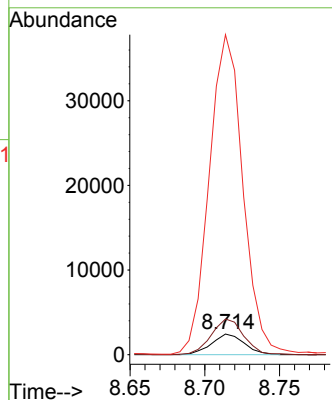
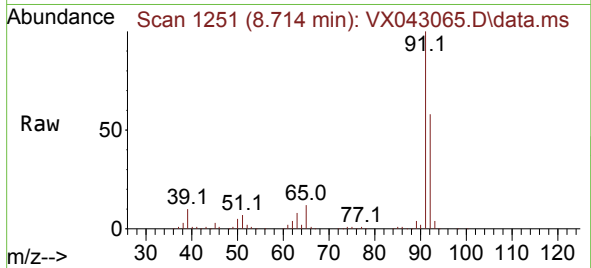




#49
 cis-1,3-Dichloropropene
 Concen: 1.335 ug/l
 RT: 8.714 min Scan# 1194
 Delta R.T. 0.347 min
 Lab File: VX043065.D
 Acq: 16 Aug 2024 10:56

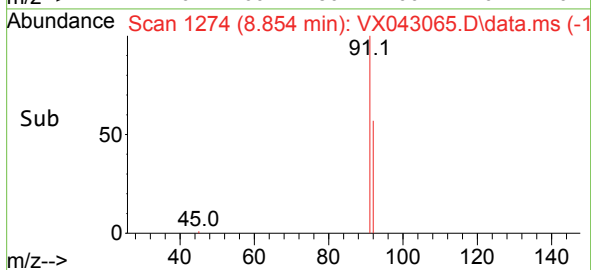
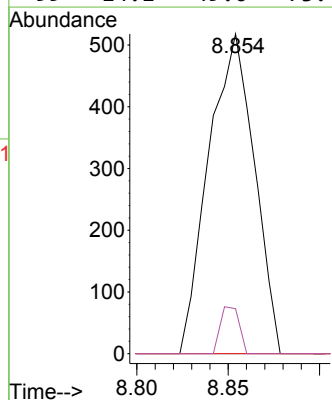
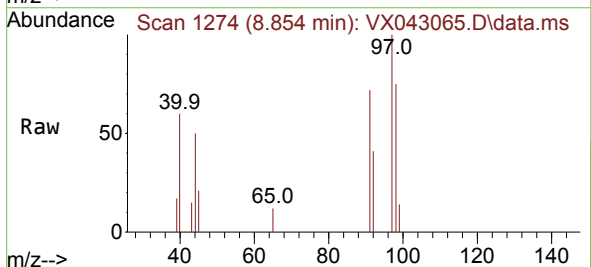
Instrument :
 MSVOA_X
 ClientSampleId :

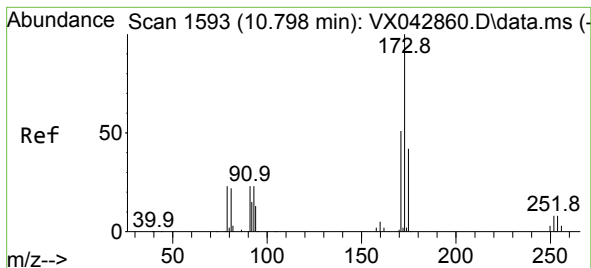
Tgt Ion: 75 Resp: 3707
 Ion Ratio Lower Upper
 75 100
 77 169.8 26.8 40.2#
 39 1530.2 37.5 56.3#



#50
 1,1,2-Trichloroethane
 Concen: 0.569 ug/l
 RT: 8.854 min Scan# 1274
 Delta R.T. -0.299 min
 Lab File: VX043065.D
 Acq: 16 Aug 2024 10:56

Tgt Ion: 97 Resp: 901
 Ion Ratio Lower Upper
 97 100
 83 0.0 68.2 102.2#
 85 0.0 45.4 68.0#
 99 14.1 49.0 73.4#





#56

Bromoform

Concen: 0.334 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.280 min

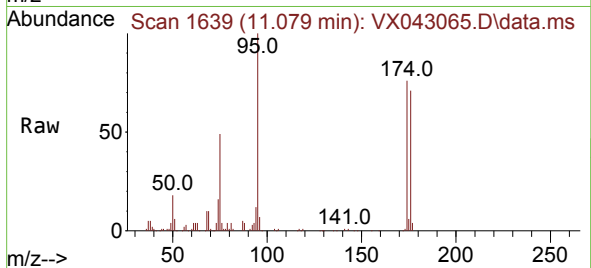
Lab File: VX043065.D

Acq: 16 Aug 2024 10:56

Instrument :

MSVOA_X

ClientSampleId :



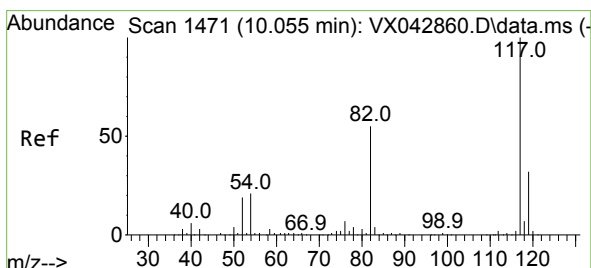
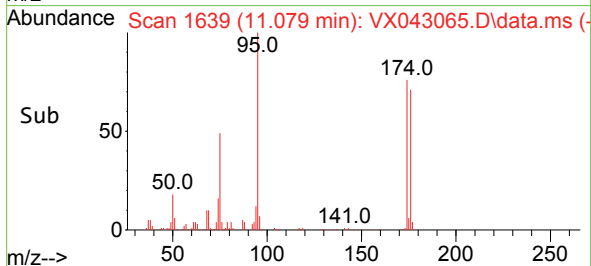
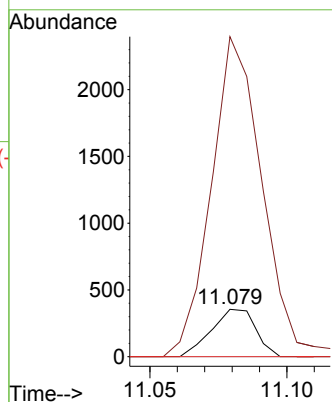
Tgt Ion:173 Resp: 401

Ion Ratio Lower Upper

173 100

175 766.3 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: VX043065.D

Acq: 16 Aug 2024 10:56

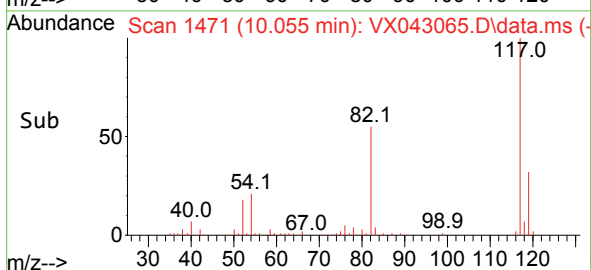
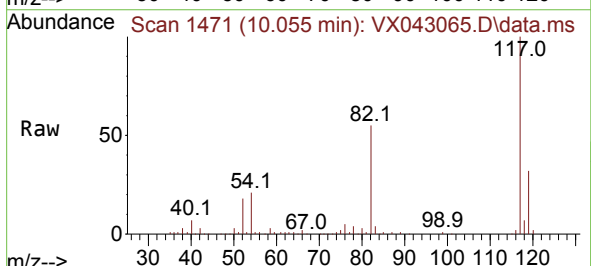
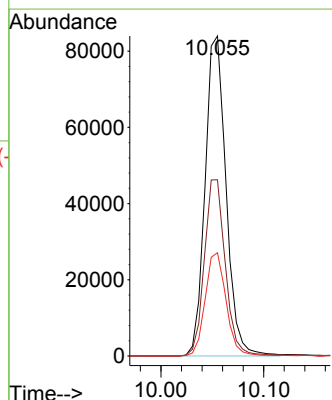
Tgt Ion:117 Resp: 119385

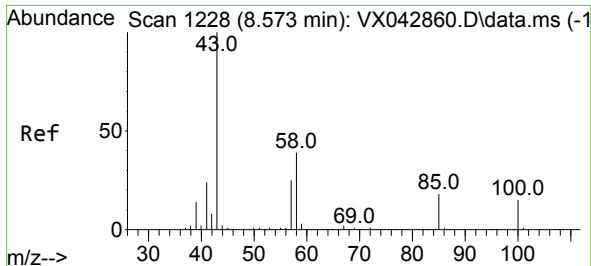
Ion Ratio Lower Upper

117 100

82 55.0 44.9 67.3

119 32.2 25.4 38.2

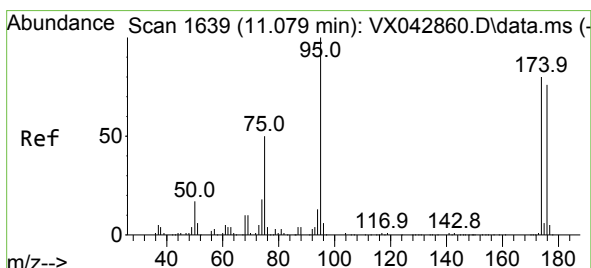
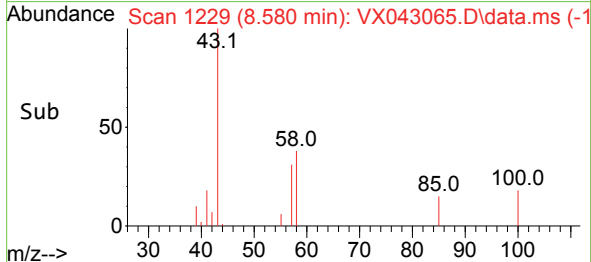
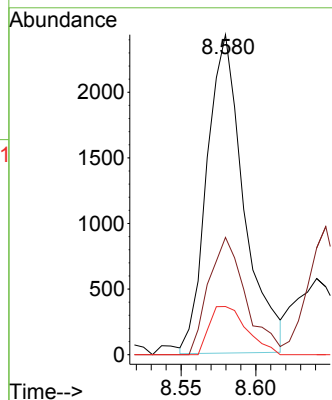
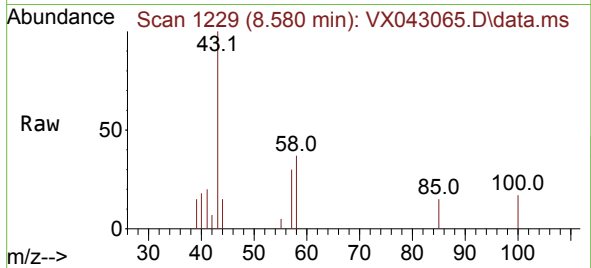




#58
4-Methyl-2-Pentanone
Concen: 1.511 ug/l
RT: 8.580 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

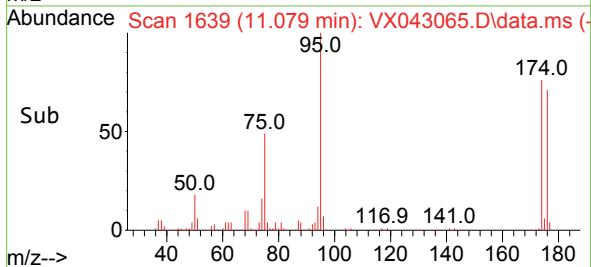
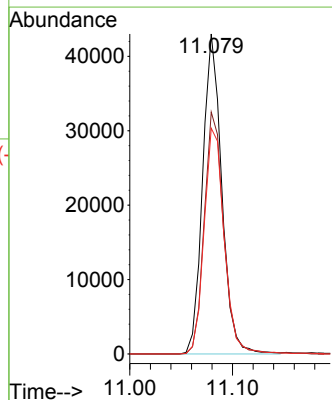
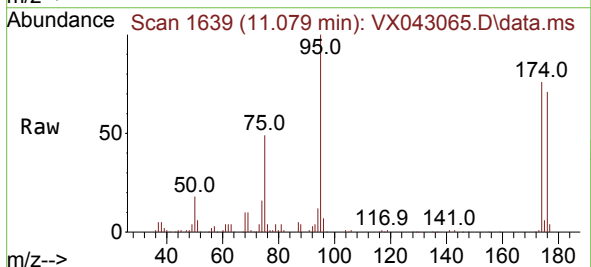
Instrument :
MSVOA_X
ClientSampleId :

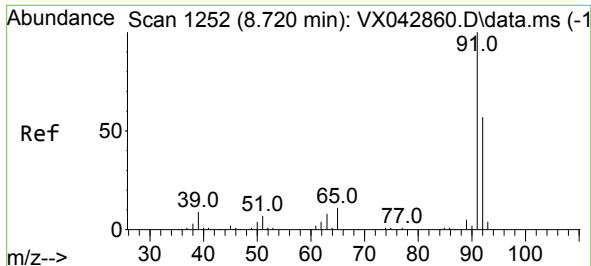
Tgt Ion: 43 Resp: 4172
Ion Ratio Lower Upper
43 100
58 37.1 31.4 47.0
85 15.4 14.6 21.8



#60
4-Bromofluorobenzene
Concen: 27.457 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

Tgt Ion: 95 Resp: 55648
Ion Ratio Lower Upper
95 100
174 76.7 65.0 97.6
176 74.2 63.4 95.0

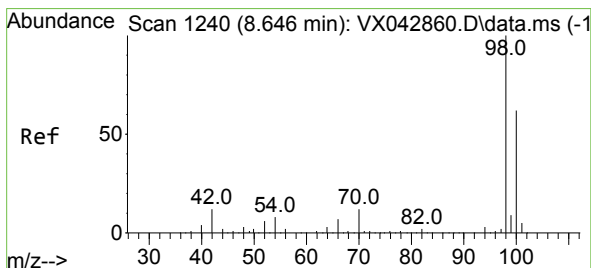
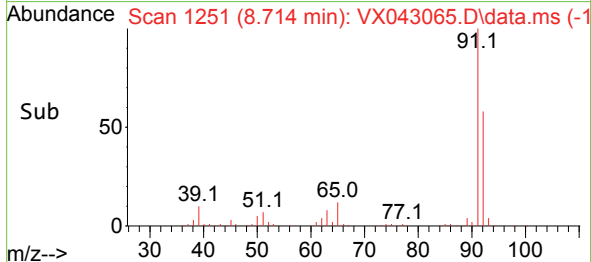
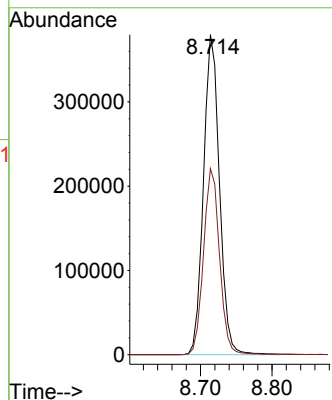
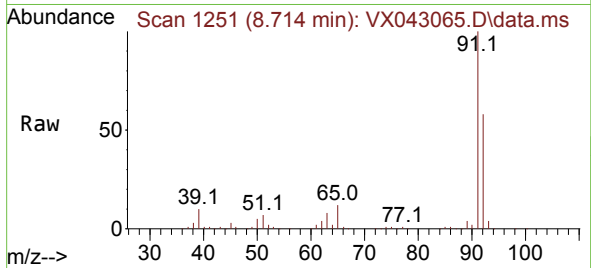




#62
Toluene
Concen: 86.775 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

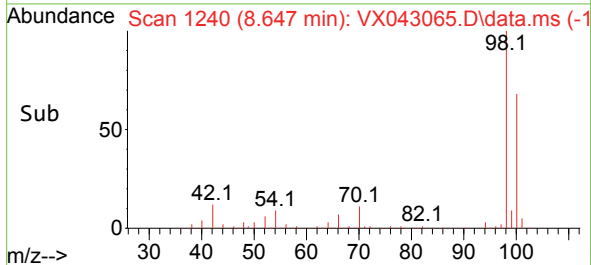
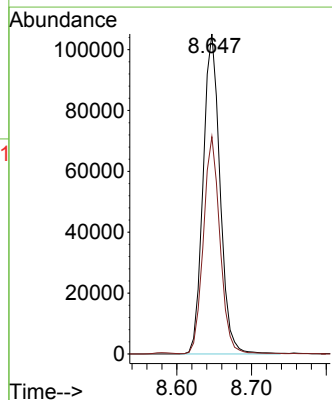
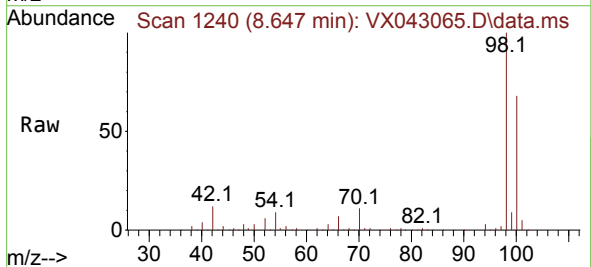
Instrument :
MSVOA_X
ClientSampleId :

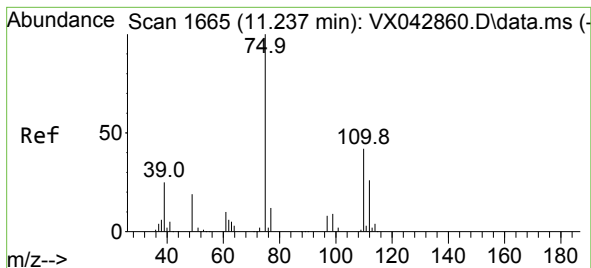
Tgt Ion: 91 Resp: 591773
Ion Ratio Lower Upper
91 100
92 58.3 45.7 68.5



#63
Toluene-d8
Concen: 30.085 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

Tgt Ion: 98 Resp: 164991
Ion Ratio Lower Upper
98 100
100 66.2 50.9 76.3





#72

1,2,3-Trichloropropane

Concen: 12.588 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX043065.D

Acq: 16 Aug 2024 10:56

Instrument :

MSVOA_X

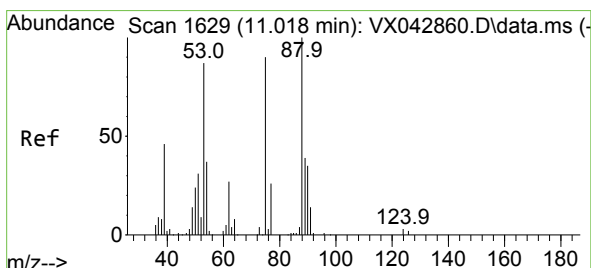
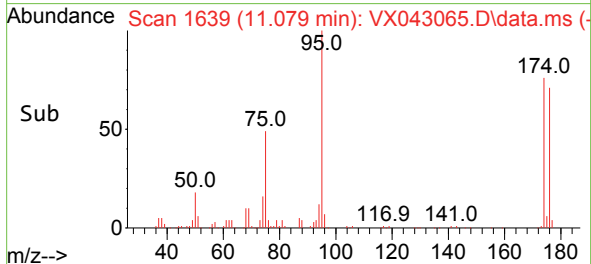
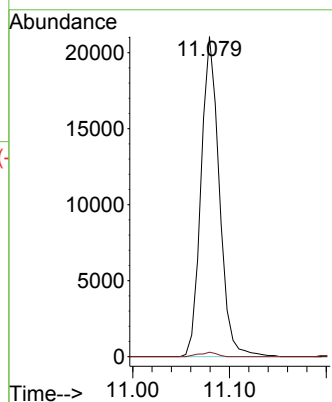
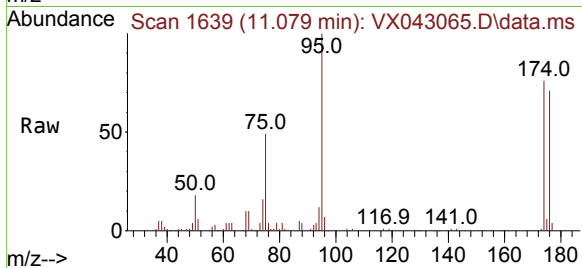
ClientSampleId :

Tgt Ion: 75 Resp: 27760

Ion Ratio Lower Upper

75 100

77 1.3 0.0 89.6



#77

t-1,4-Dichloro-2-butene

Concen: 26.965 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX043065.D

Acq: 16 Aug 2024 10:56

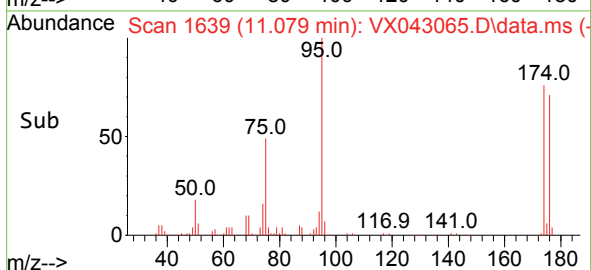
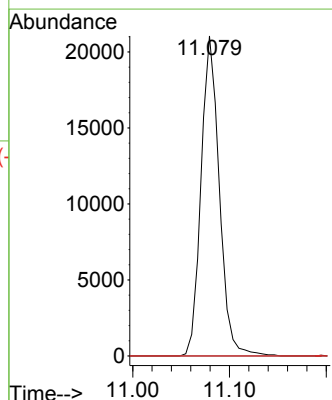
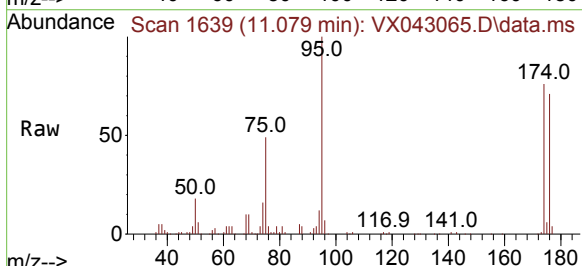
Tgt Ion: 75 Resp: 27760

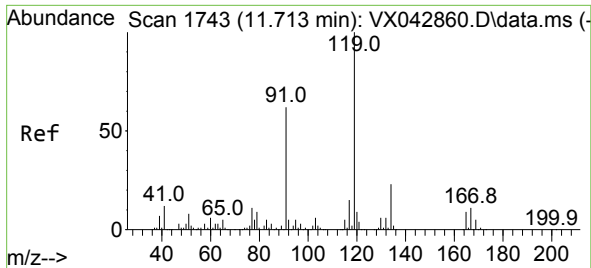
Ion Ratio Lower Upper

75 100

53 0.0 48.5 145.5#

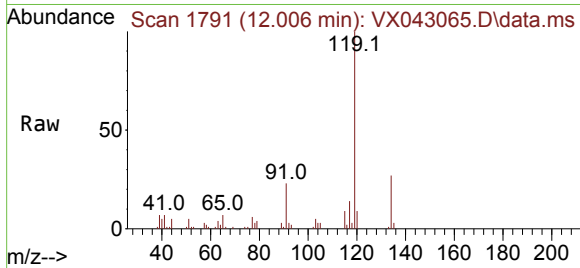
89 0.0 21.9 65.5#



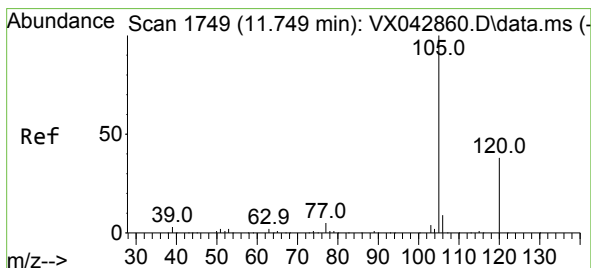
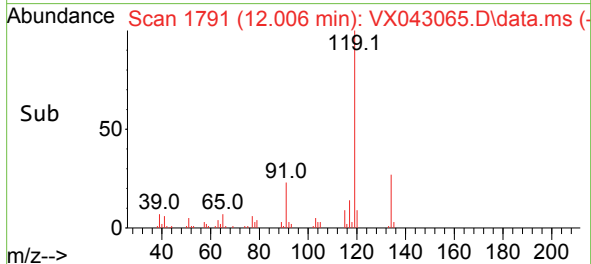
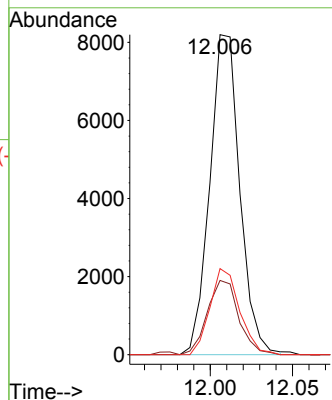


#79
tert-butylbenzene
Concen: 1.803 ug/l
RT: 12.006 min Scan# 11
Delta R.T. 0.293 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

Instrument :
MSVOA_X
ClientSampleId :

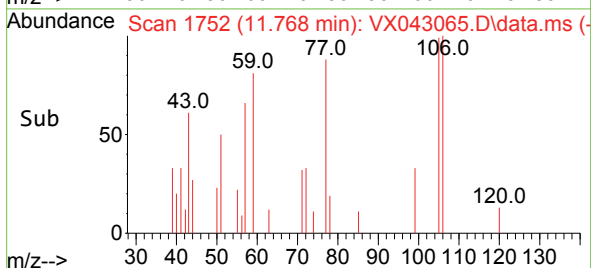
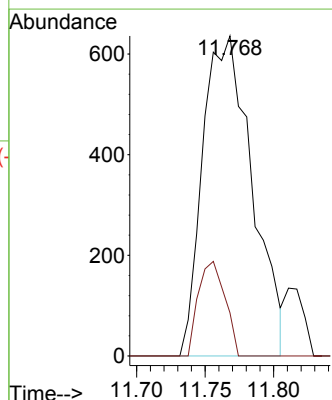
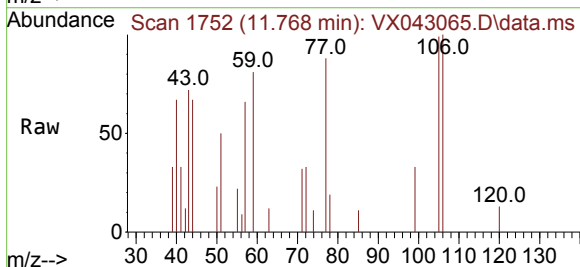


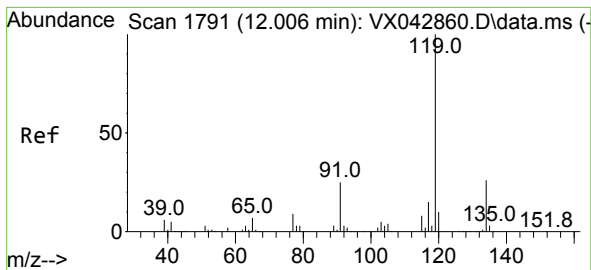
Tgt Ion	Ratio	Lower	Upper
119	100		
91	24.2	0.0	118.6
134	26.6	0.0	44.4



#80
1,2,4-Trimethylbenzene
Concen: 0.275 ug/l
RT: 11.768 min Scan# 1752
Delta R.T. 0.018 min
Lab File: VX043065.D
Acq: 16 Aug 2024 10:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	16.0	0.0	87.8





#82
 p-Isopropyltoluene
 Concen: 1.764 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX043065.D
 Acq: 16 Aug 2024 10:56

Instrument :
 MSVOA_X
 ClientSampleId :

Tgt Ion:	119	Resp:	10418
Ion	Ratio	Lower	Upper
119	100		
134	26.6	0.0	51.8
91	24.2	0.0	48.4

