

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052324\
 Data File : VX041636.D
 Acq On : 23 May 2024 18:05
 Operator : JC/MD
 Sample : P2601-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 24 06:46:36 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)

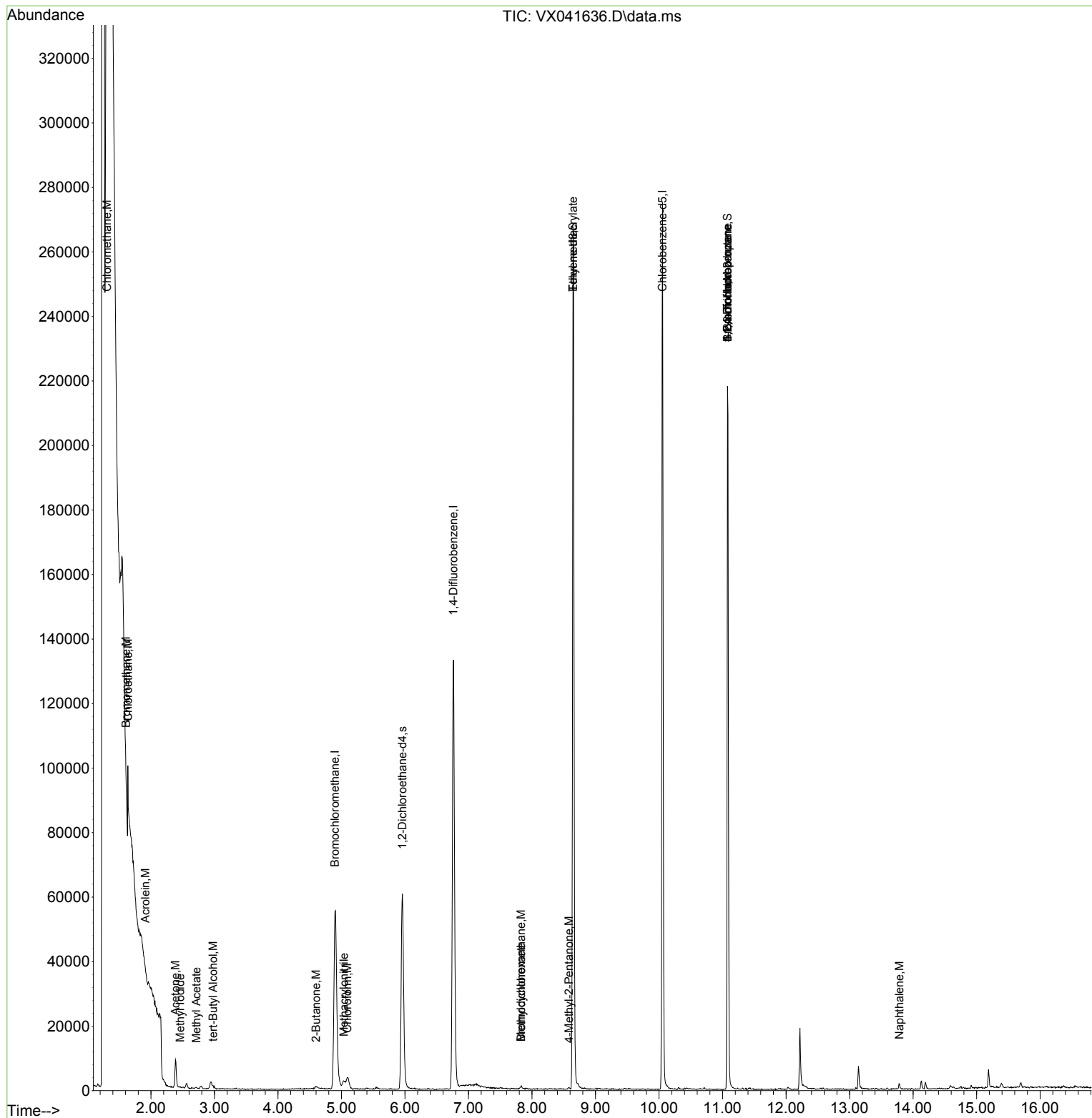
Internal Standards						
1) Bromochloromethane	4.897	128	26344	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	140306	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	128218	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	60933	29.371	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.900%
60) 4-Bromofluorobenzene	11.079	95	56990	28.473	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.900%
63) Toluene-d8	8.647	98	161906	29.458	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.307	50	4132	2.738	ug/l #	50
5) Bromomethane	1.605	94	817	0.809	ug/l	85
6) Chloroethane	1.636	64	17081	21.267	ug/l #	45
11) Methyl Iodide	2.459	142	442	0.275	ug/l #	74
12) Methyl Acetate	2.715	43	670	0.330	ug/l #	50
13) Acrolein	1.910	56	82	0.332	ug/l	99
15) Acetone	2.386	58	2585	10.810	ug/l	98
23) tert-Butyl Alcohol	2.977	59	214	0.565	ug/l #	100
25) Chloroform	5.093	83	4412	1.468	ug/l	88
30) 2-Butanone	4.599	43	1427	1.158	ug/l #	76
35) Methacrylonitrile	5.038	41	1431	1.152	ug/l #	49
38) Methylcyclohexane	7.830	83	775	0.329	ug/l #	18
41) Bromodichloromethane	7.830	83	775	0.379	ug/l #	93
51) Ethyl methacrylate	8.647	69	552	0.226	ug/l	91
56) Bromoform	11.079	173	277	0.200	ug/l #	36
58) 4-Methyl-2-Pentanone	8.580	43	1108	0.473	ug/l #	44
72) 1,2,3-Trichloropropane	11.079	75	29333	13.437	ug/l	38
77) t-1,4-Dichloro-2-butene	11.079	75	29333	42.750	ug/l #	1
91) Naphthalene	13.786	128	1739	0.228	ug/l #	87

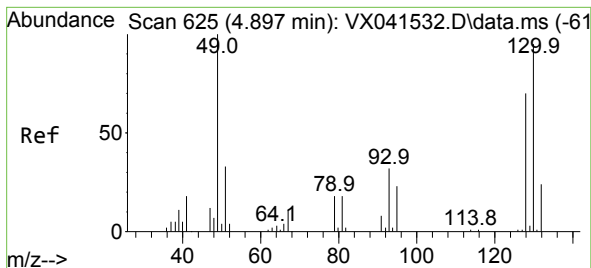
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.897 min Scan# 61

Delta R.T. 0.000 min

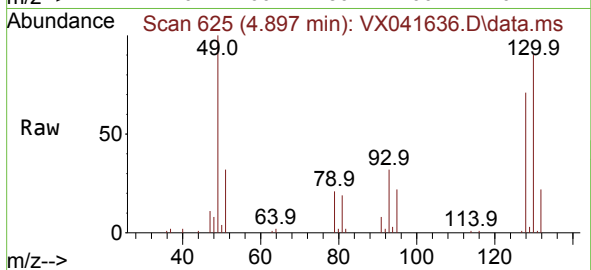
Lab File: VX041636.D

Acq: 23 May 2024 18:05

Instrument :

MSVOA_X

ClientSampleId :



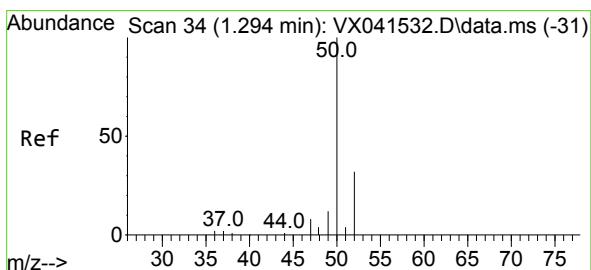
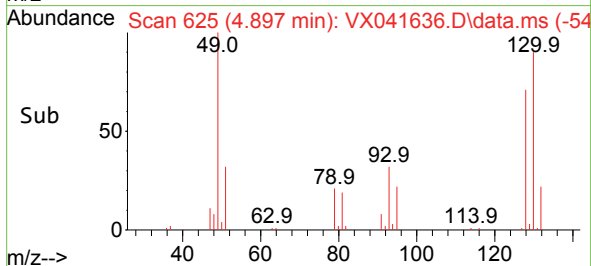
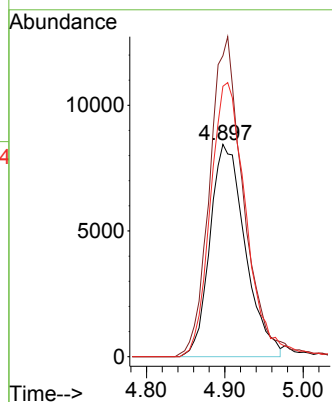
Tgt Ion:128 Resp: 26344

Ion Ratio Lower Upper

128 100

49 144.6 0.0 361.5

130 131.5 0.0 324.3



#3

Chloromethane

Concen: 2.738 ug/l

RT: 1.307 min Scan# 36

Delta R.T. 0.012 min

Lab File: VX041636.D

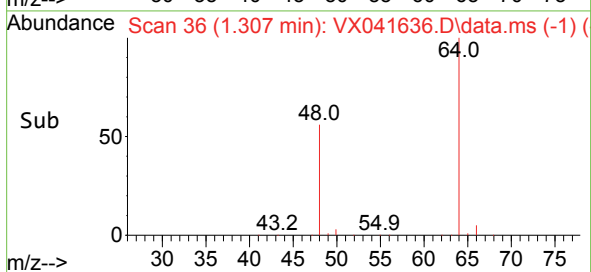
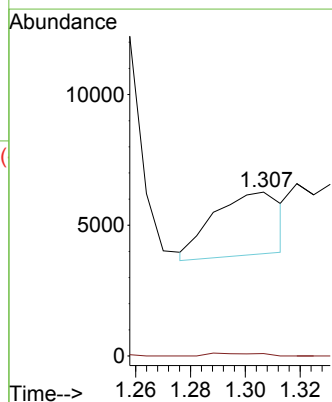
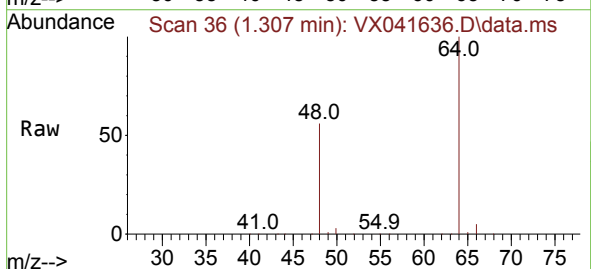
Acq: 23 May 2024 18:05

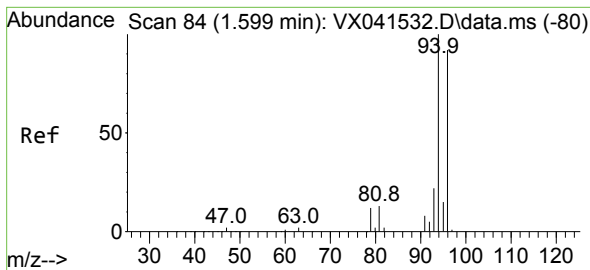
Tgt Ion: 50 Resp: 4132

Ion Ratio Lower Upper

50 100

52 4.0 25.8 38.8#





#5

Bromomethane

Concen: 0.809 ug/l

RT: 1.605 min Scan# 81

Delta R.T. 0.006 min

Lab File: VX041636.D

Acq: 23 May 2024 18:05

Instrument :

MSVOA_X

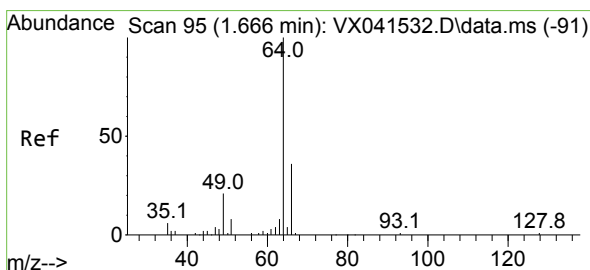
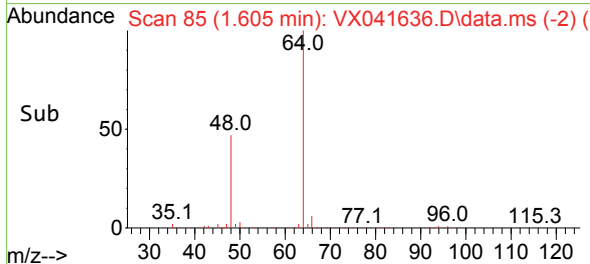
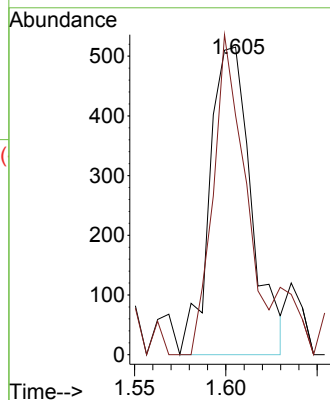
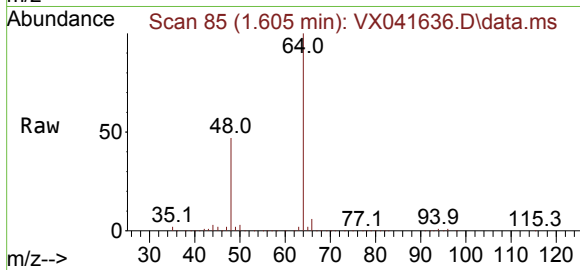
ClientSampleId :

Tgt Ion: 94 Resp: 817

Ion Ratio Lower Upper

94 100

96 77.9 73.9 110.9



#6

Chloroethane

Concen: 21.267 ug/l

RT: 1.636 min Scan# 90

Delta R.T. -0.030 min

Lab File: VX041636.D

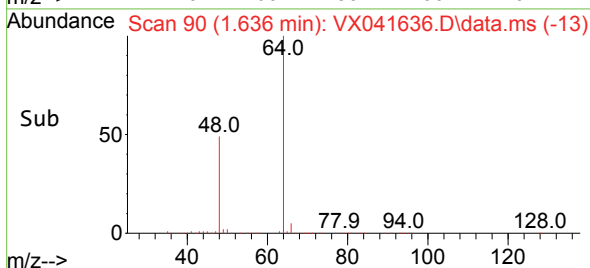
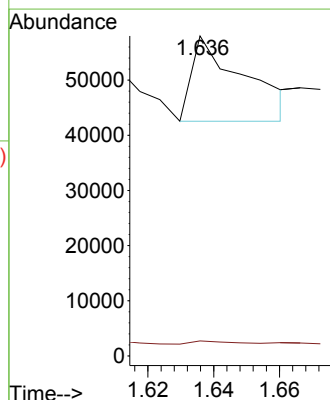
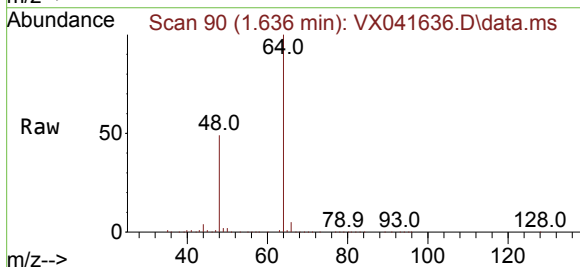
Acq: 23 May 2024 18:05

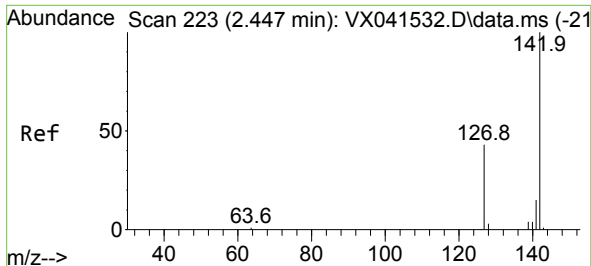
Tgt Ion: 64 Resp: 17081

Ion Ratio Lower Upper

64 100

66 3.7 28.6 42.8#





#11

Methyl Iodide

Concen: 0.275 ug/l

RT: 2.459 min Scan# 21

Delta R.T. 0.012 min

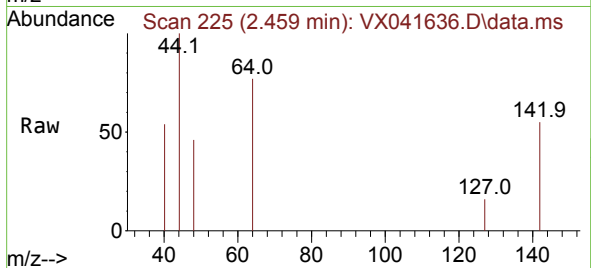
Lab File: VX041636.D

Acq: 23 May 2024 18:05

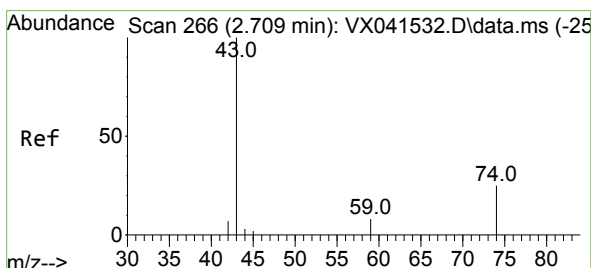
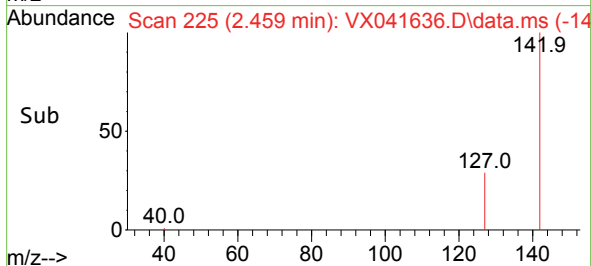
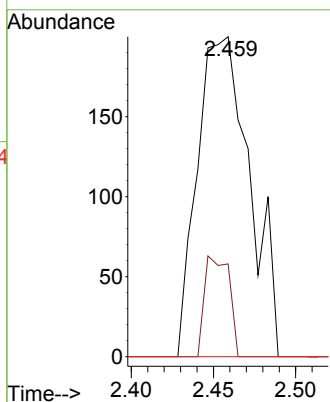
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	142	Resp:	442
Ion	Ratio	Lower	Upper
142	100		
127	29.0	21.4	64.2
141	0.0	7.6	22.8#



#12

Methyl Acetate

Concen: 0.330 ug/l

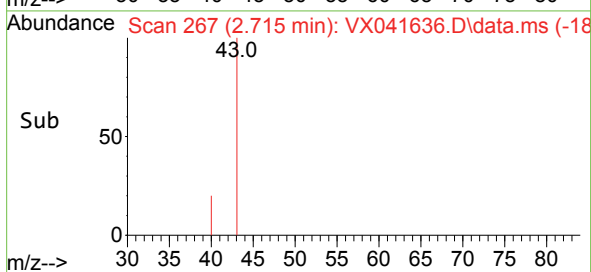
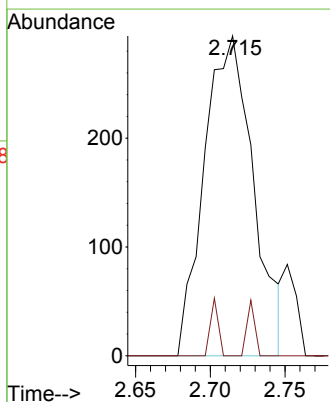
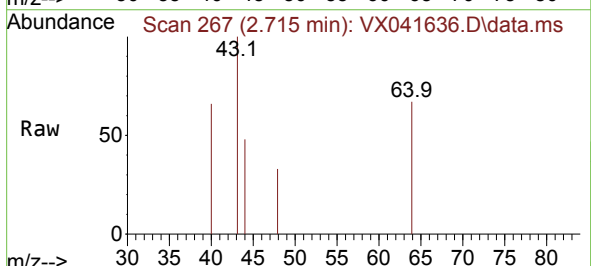
RT: 2.715 min Scan# 267

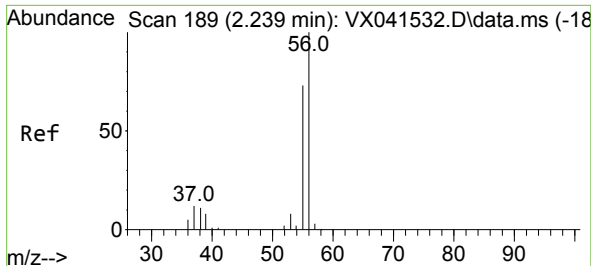
Delta R.T. 0.006 min

Lab File: VX041636.D

Acq: 23 May 2024 18:05

Tgt Ion:	43	Resp:	670
Ion	Ratio	Lower	Upper
43	100		
74	0.0	19.9	29.9#





#13

Acrolein

Concen: 0.332 ug/l

RT: 1.910 min Scan# 11

Delta R.T. -0.329 min

Lab File: VX041636.D

Acq: 23 May 2024 18:05

Instrument :

MSVOA_X

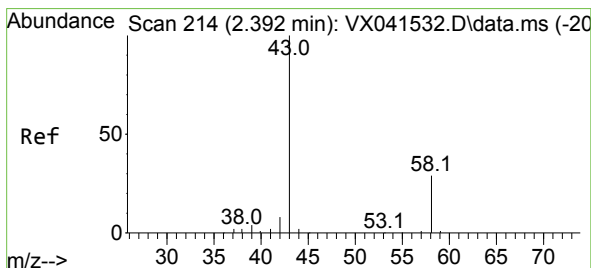
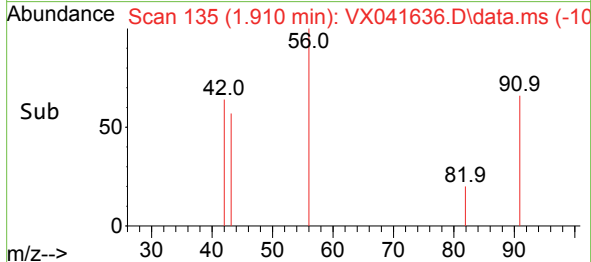
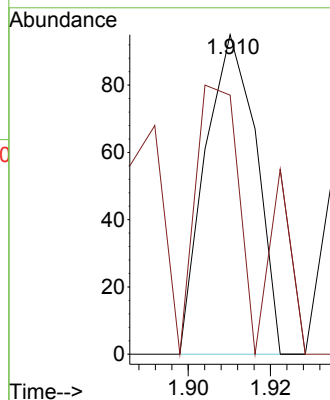
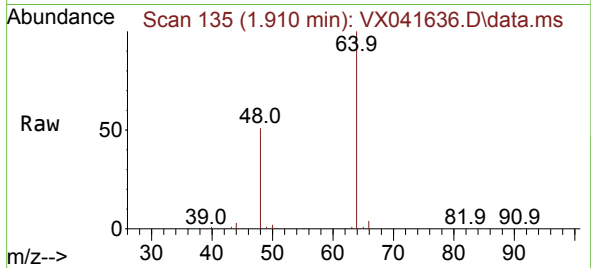
ClientSampleId :

Tgt Ion: 56 Resp: 82

Ion Ratio Lower Upper

56 100

55 69.5 55.1 82.7



#15

Acetone

Concen: 10.810 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX041636.D

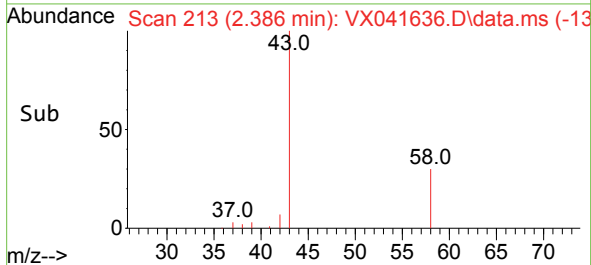
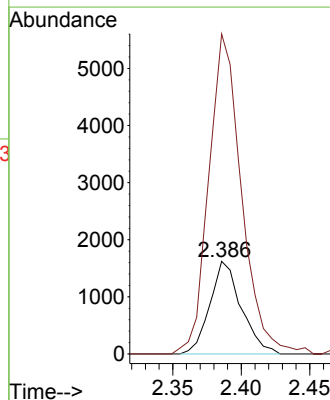
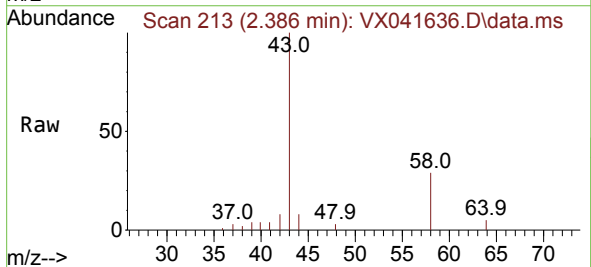
Acq: 23 May 2024 18:05

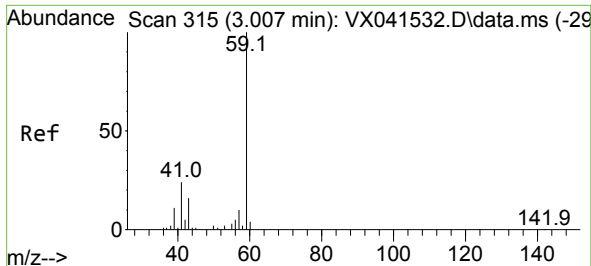
Tgt Ion: 58 Resp: 2585

Ion Ratio Lower Upper

58 100

43 339.3 274.0 411.0

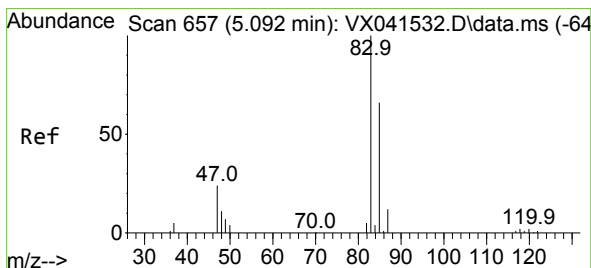
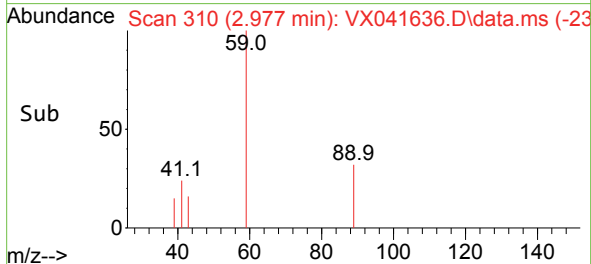
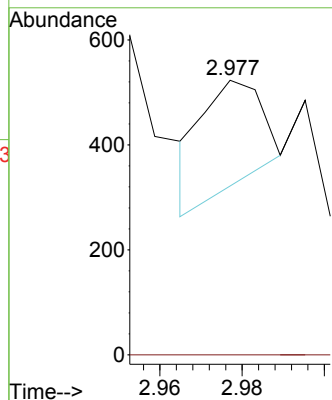
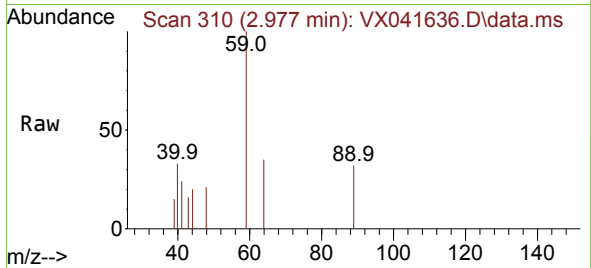




#23
tert-Butyl Alcohol
Concen: 0.565 ug/l
RT: 2.977 min Scan# 315
Delta R.T. -0.030 min
Lab File: VX041636.D
Acq: 23 May 2024 18:05

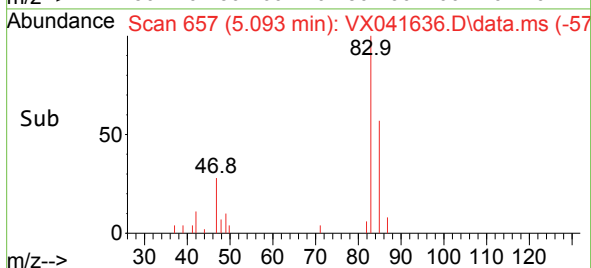
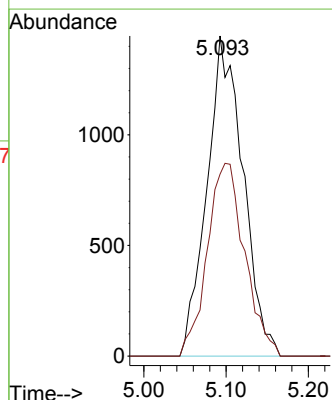
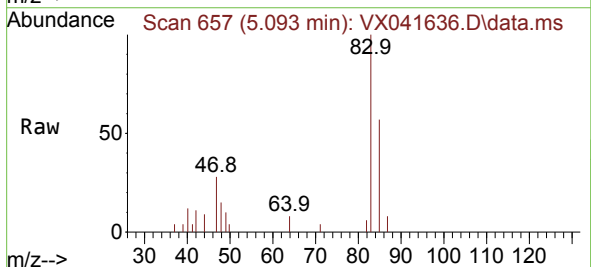
Instrument :
MSVOA_X
ClientSampleId :

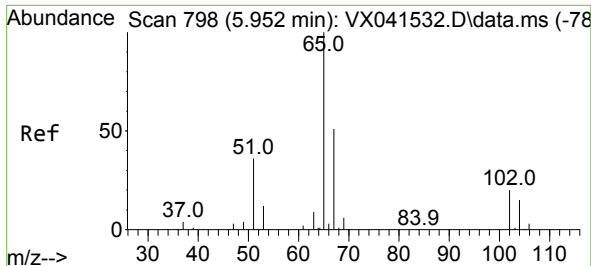
Tgt Ion: 59 Resp: 214
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 1.468 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.000 min
Lab File: VX041636.D
Acq: 23 May 2024 18:05

Tgt Ion: 83 Resp: 4412
Ion Ratio Lower Upper
83 100
85 56.8 52.9 79.3





#27

1,2-Dichloroethane-d4

Concen: 29.371 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX041636.D

Acq: 23 May 2024 18:05

Instrument :

MSVOA_X

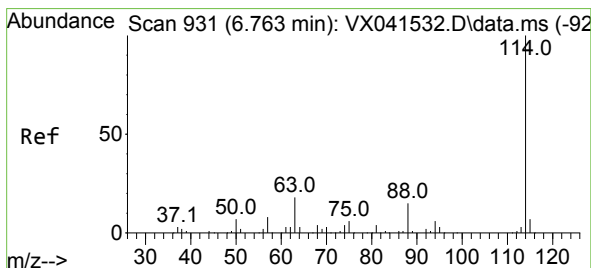
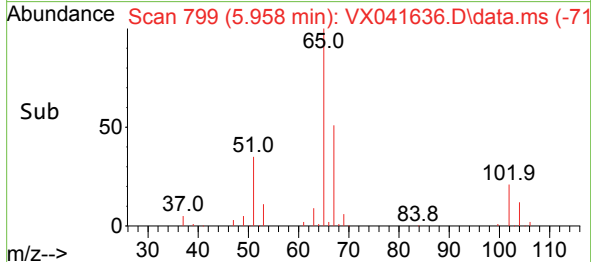
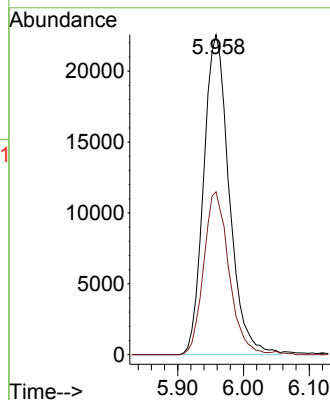
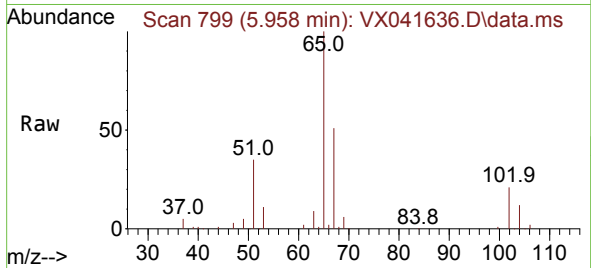
ClientSampleId :

Tgt Ion: 65 Resp: 60933

Ion Ratio Lower Upper

65 100

67 50.5 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX041636.D

Acq: 23 May 2024 18:05

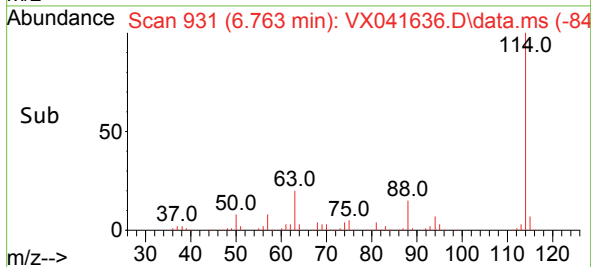
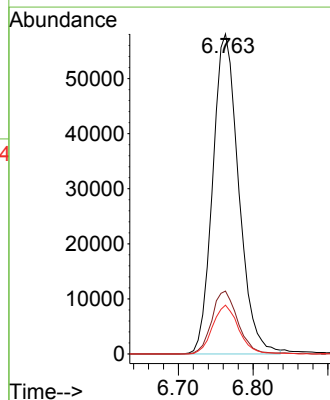
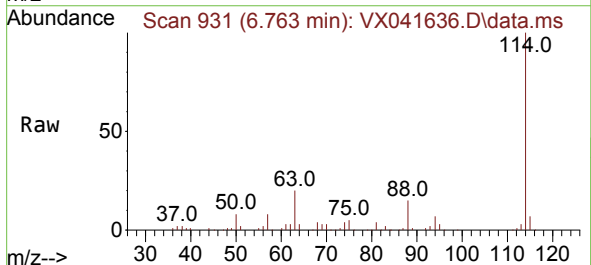
Tgt Ion: 114 Resp: 140306

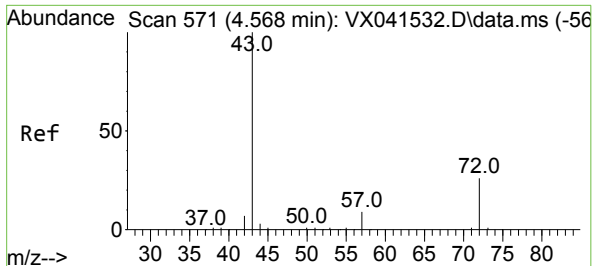
Ion Ratio Lower Upper

114 100

63 19.7 15.4 23.0

88 15.3 12.2 18.2

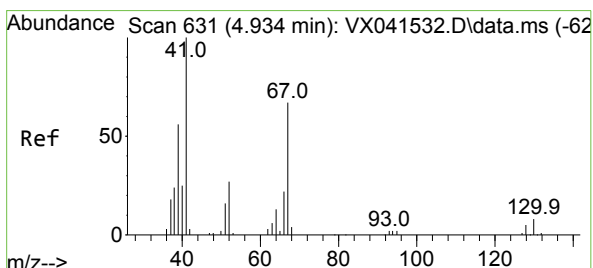
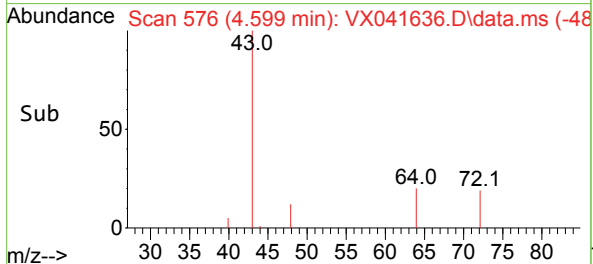
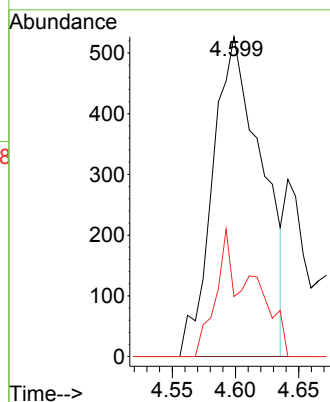
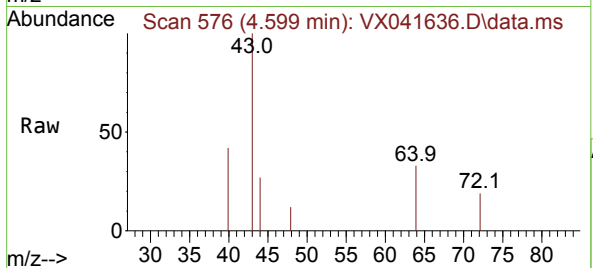




#30
2-Butanone
Concen: 1.158 ug/l
RT: 4.599 min Scan# 51
Delta R.T. 0.031 min
Lab File: VX041636.D
Acq: 23 May 2024 18:05

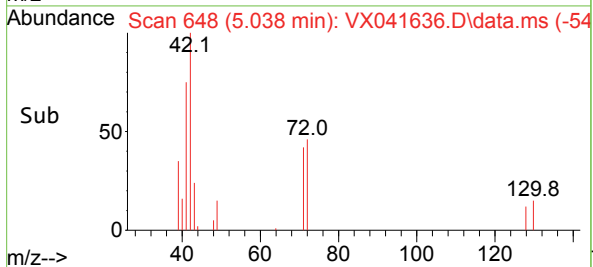
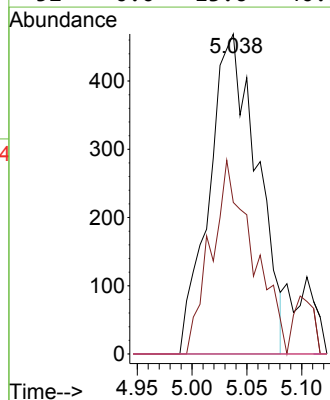
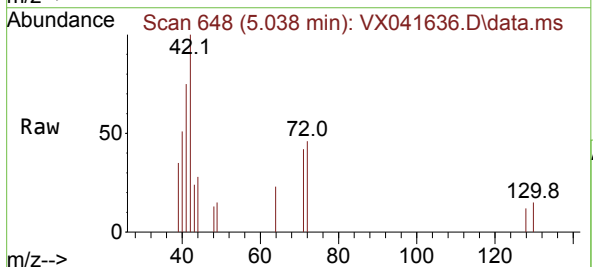
Instrument :
MSVOA_X
ClientSampleId :

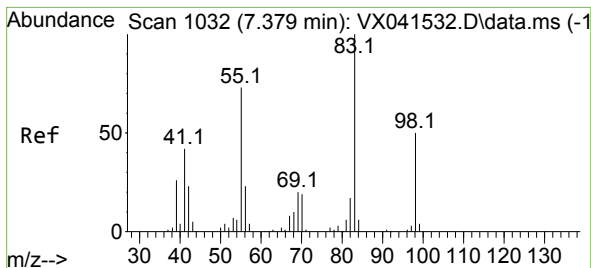
Tgt Ion: 43 Resp: 1427
Ion Ratio Lower Upper
43 100
57 0.0 6.6 10.0#
72 13.7 20.7 31.1#



#35
Methacrylonitrile
Concen: 1.152 ug/l
RT: 5.038 min Scan# 648
Delta R.T. 0.104 min
Lab File: VX041636.D
Acq: 23 May 2024 18:05

Tgt Ion: 41 Resp: 1431
Ion Ratio Lower Upper
41 100
39 47.3 28.1 84.4
67 0.0 33.7 101.1#
52 0.0 13.6 40.8#





#38

Methylcyclohexane

Concen: 0.329 ug/l

RT: 7.830 min Scan# 1106

Delta R.T. 0.451 min

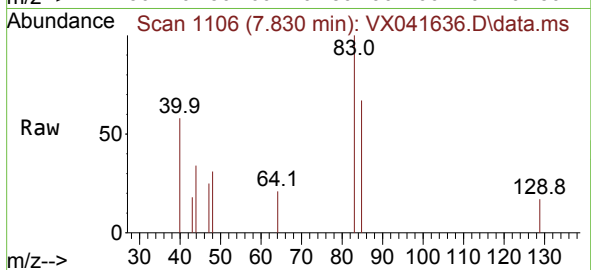
Lab File: VX041636.D

Acq: 23 May 2024 18:05

Instrument :

MSVOA_X

ClientSampleId :



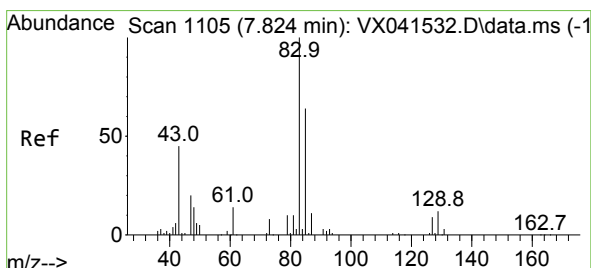
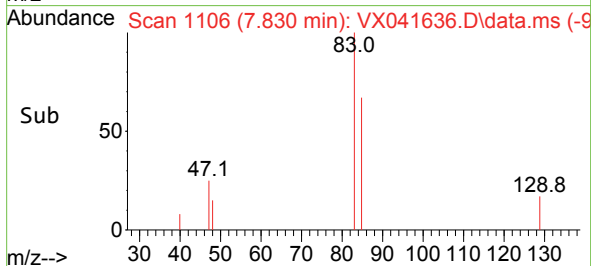
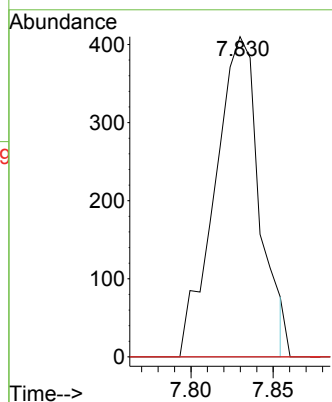
Tgt Ion: 83 Resp: 775

Ion Ratio Lower Upper

83 100

55 0.0 37.7 113.1#

98 0.0 25.1 75.3#



#41

Bromodichloromethane

Concen: 0.379 ug/l

RT: 7.830 min Scan# 1106

Delta R.T. 0.006 min

Lab File: VX041636.D

Acq: 23 May 2024 18:05

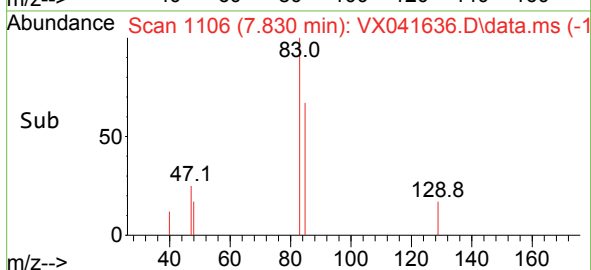
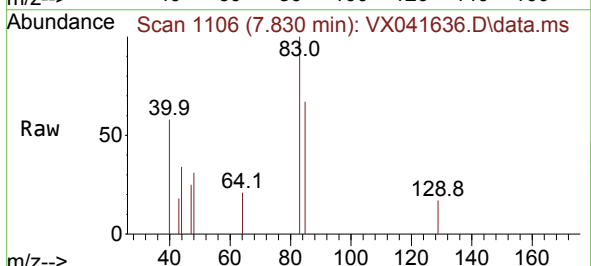
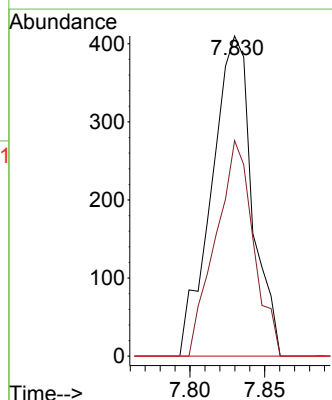
Tgt Ion: 83 Resp: 775

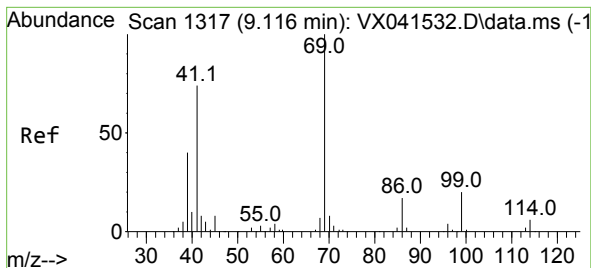
Ion Ratio Lower Upper

83 100

85 67.3 51.0 76.4

127 0.0 7.1 10.7#





#51

Ethyl methacrylate

Concen: 0.226 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.469 min

Lab File: VX041636.D

Acq: 23 May 2024 18:05

Instrument :

MSVOA_X

ClientSampleId :

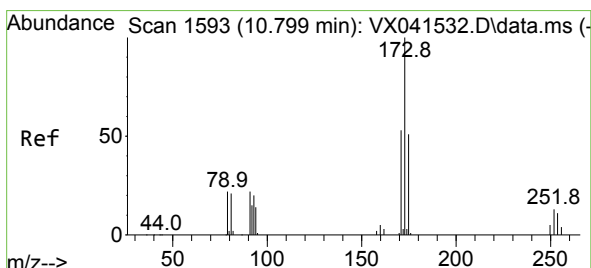
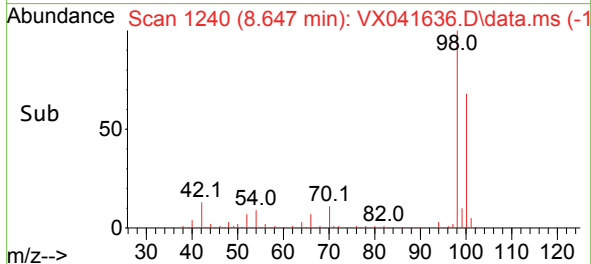
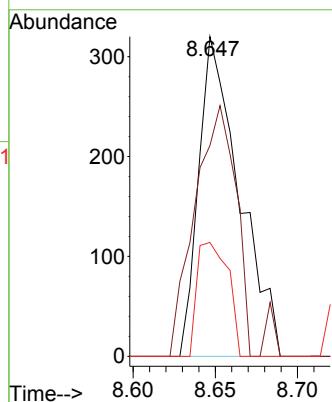
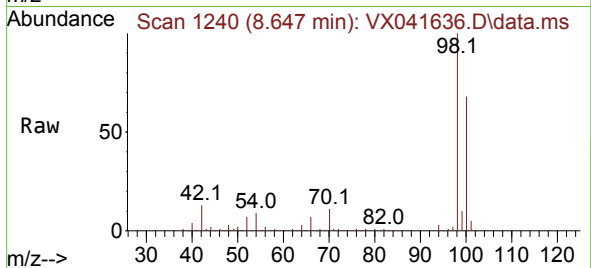
Tgt Ion: 69 Resp: 552

Ion Ratio Lower Upper

69 100

41 65.9 37.1 111.3

39 35.6 20.2 60.6



#56

Bromoform

Concen: 0.200 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.281 min

Lab File: VX041636.D

Acq: 23 May 2024 18:05

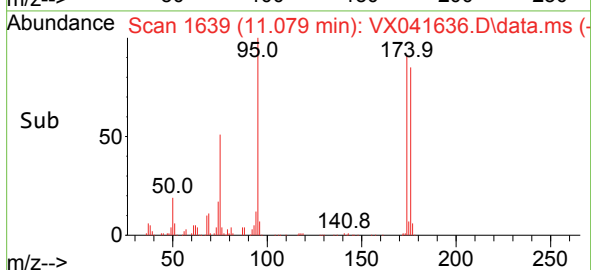
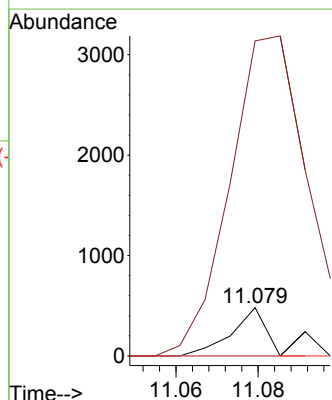
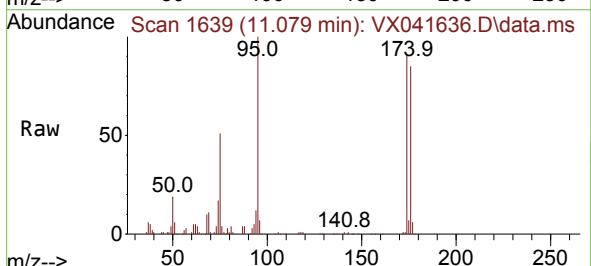
Tgt Ion: 173 Resp: 277

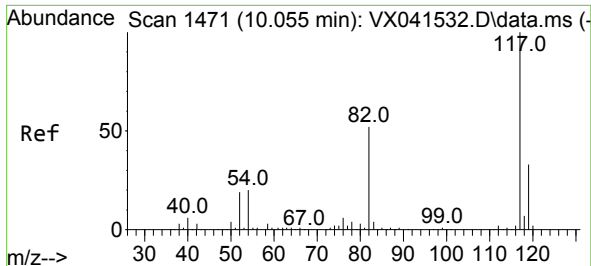
Ion Ratio Lower Upper

173 100

175 0.0 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

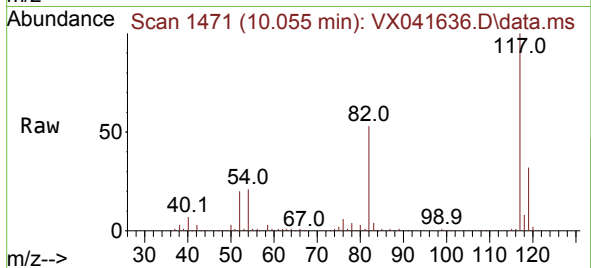
Lab File: VX041636.D

Acq: 23 May 2024 18:05

Instrument :

MSVOA_X

ClientSampleId :



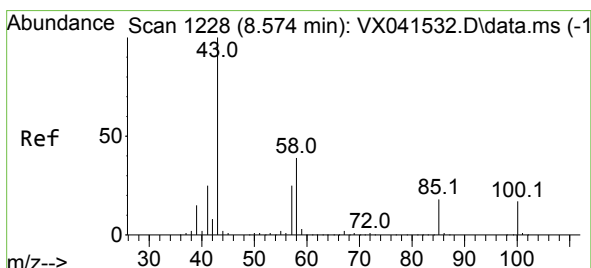
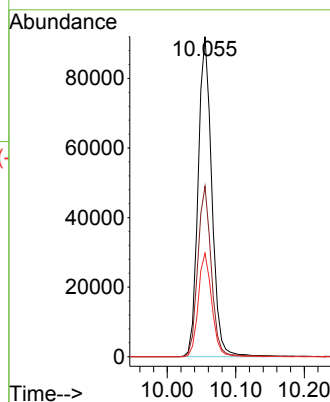
Tgt Ion:117 Resp: 128218

Ion Ratio Lower Upper

117 100

82 52.2 41.7 62.5

119 31.7 25.7 38.5



#58

4-Methyl-2-Pentanone

Concen: 0.473 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX041636.D

Acq: 23 May 2024 18:05

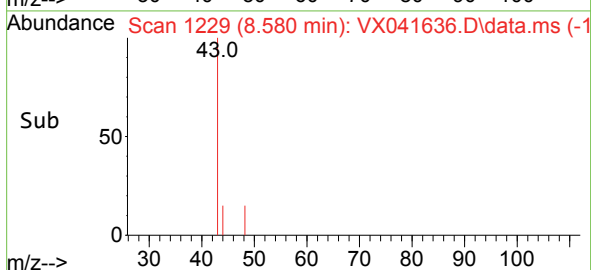
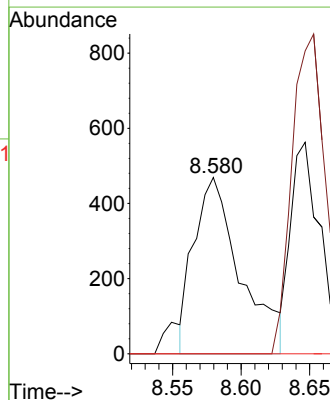
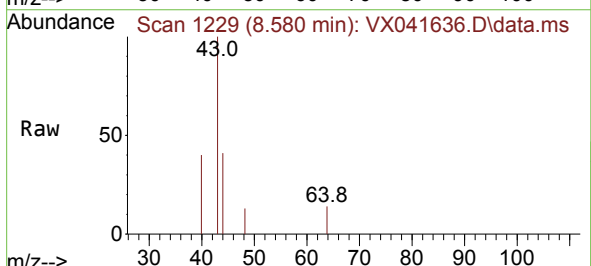
Tgt Ion: 43 Resp: 1108

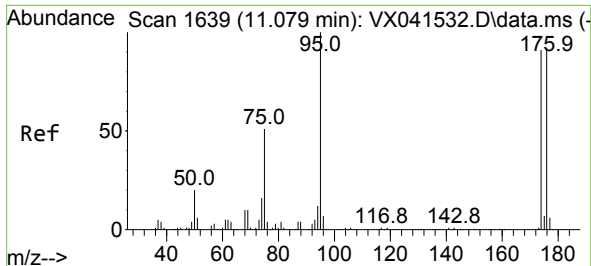
Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.4#

85 0.0 14.6 21.8#

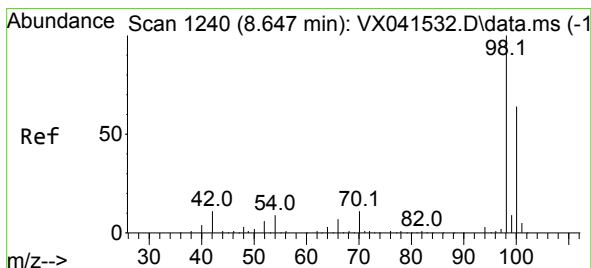
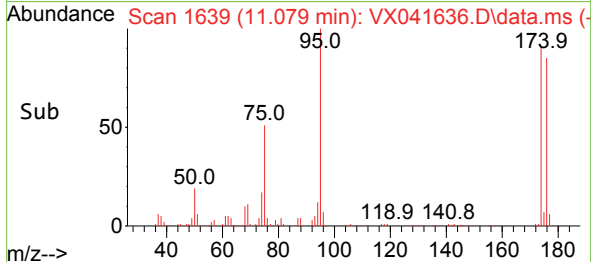
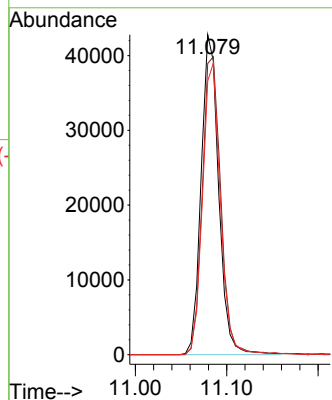
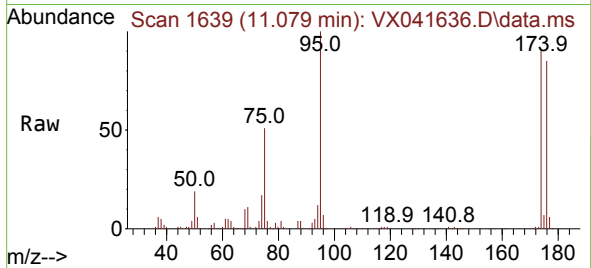




#60
4-Bromofluorobenzene
Concen: 28.473 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX041636.D
Acq: 23 May 2024 18:05

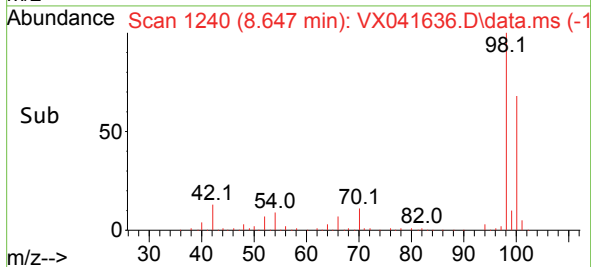
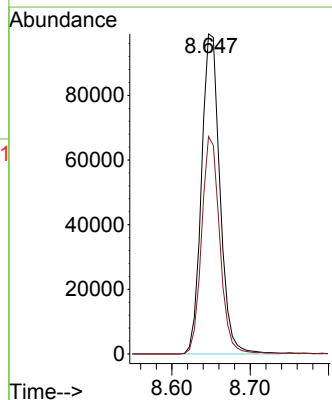
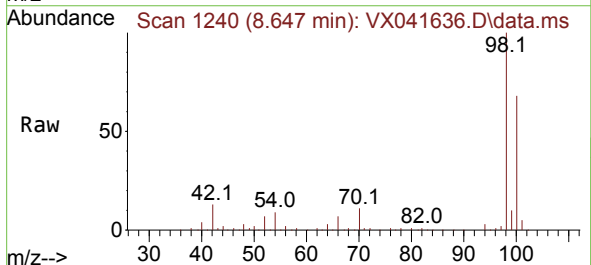
Instrument :
MSVOA_X
ClientSampleId :

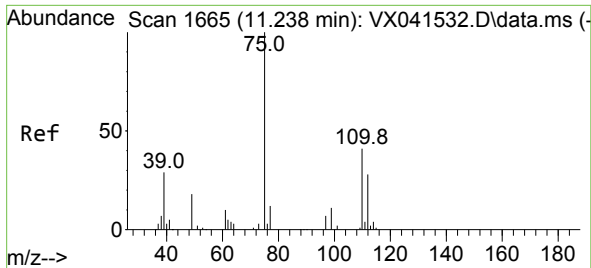
Tgt Ion: 95 Resp: 56990
Ion Ratio Lower Upper
95 100
174 97.6 76.6 115.0
176 92.4 75.4 113.0



#63
Toluene-d8
Concen: 29.458 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX041636.D
Acq: 23 May 2024 18:05

Tgt Ion: 98 Resp: 161906
Ion Ratio Lower Upper
98 100
100 66.8 53.1 79.7

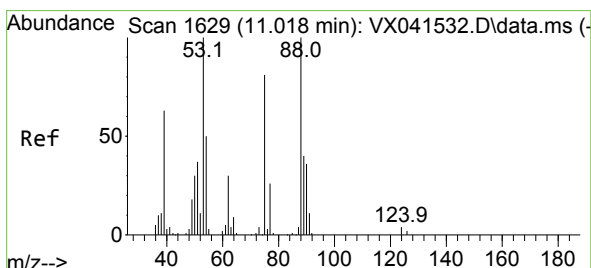
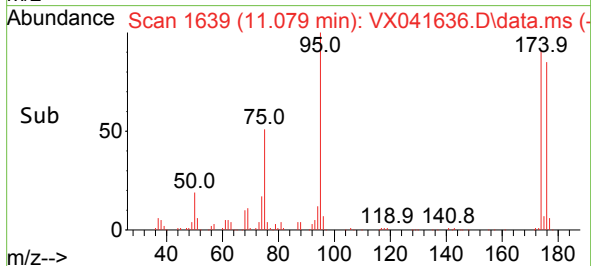
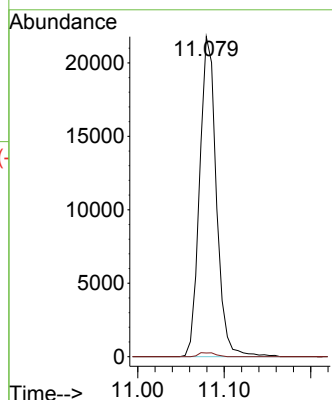
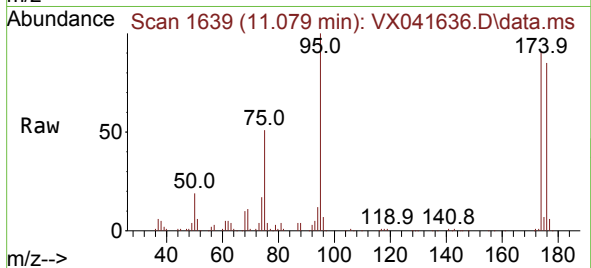




#72
1,2,3-Trichloropropane
Concen: 13.437 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX041636.D
Acq: 23 May 2024 18:05

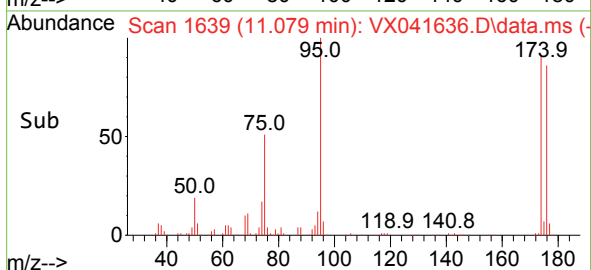
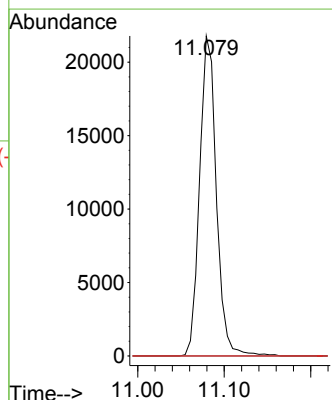
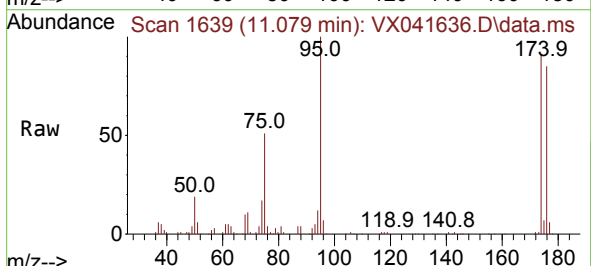
Instrument :
MSVOA_X
ClientSampleId :

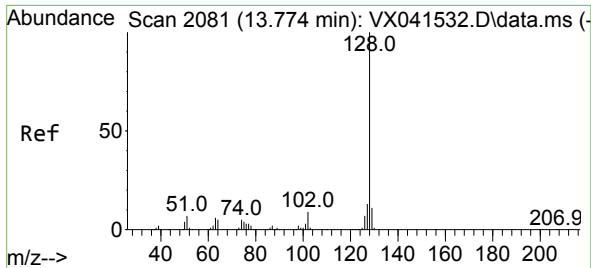
Tgt Ion: 75 Resp: 29333
Ion Ratio Lower Upper
75 100
77 1.3 0.0 78.8



#77
t-1,4-Dichloro-2-butene
Concen: 42.750 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX041636.D
Acq: 23 May 2024 18:05

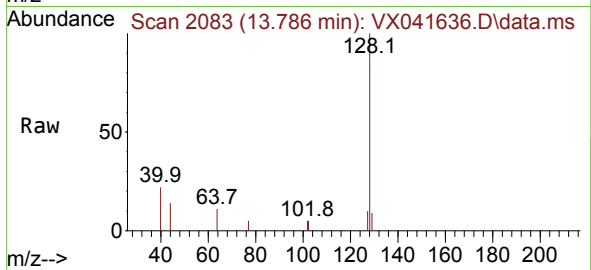
Tgt Ion: 75 Resp: 29333
Ion Ratio Lower Upper
75 100
53 0.0 61.8 185.3#
89 0.0 24.9 74.7#





#91
Naphthalene
Concen: 0.228 ug/l
RT: 13.786 min Scan# 2083
Delta R.T. 0.012 min
Lab File: VX041636.D
Acq: 23 May 2024 18:05

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:128 Resp: 1739
Ion Ratio Lower Upper
128 100
127 11.0 10.6 16.0
129 2.6 8.8 13.2#

