

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX063023\
 Data File : VX036386.D
 Acq On : 30 Jun 2023 11:52
 Operator : JC/MD
 Sample : 03491-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-062923

Quant Time: Jul 01 01:19:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X062323W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 23 15:03:28 2023
 Response via : Initial Calibration

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

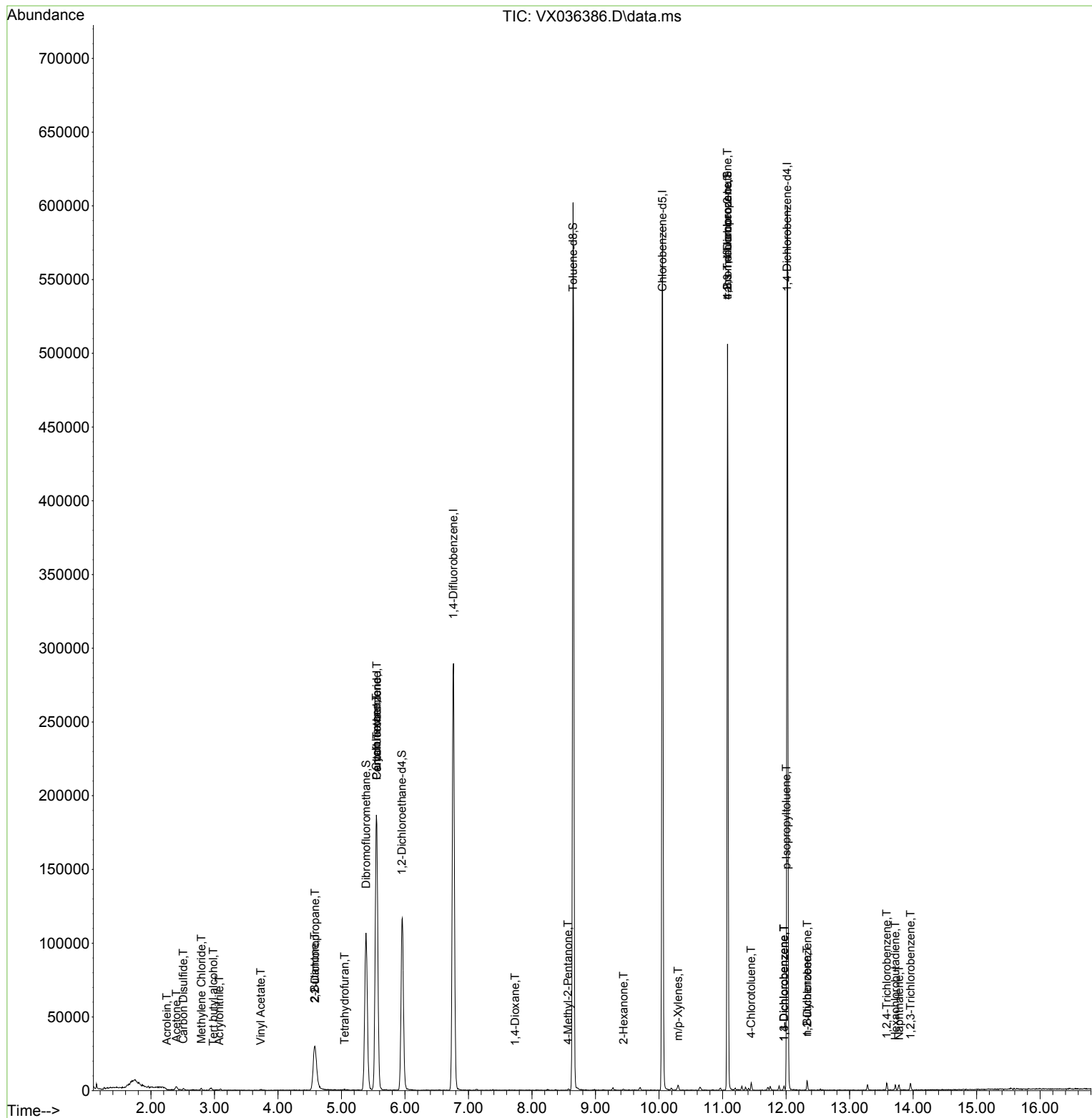
Internal Standards						
1) Pentafluorobenzene	5.556	168	179155	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.763	114	300160	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	265251	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	122265	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	112103	43.653	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	87.300%		
35) Dibromofluoromethane	5.385	113	93687	47.336	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.680%		
50) Toluene-d8	8.647	98	352781	47.723	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	95.440%		
62) 4-Bromofluorobenzene	11.079	95	126557	48.605	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.220%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	2.983	59	225	0.481	ug/l	# 78
13) Acrolein	2.252	56	193	0.301	ug/l	# 82
15) Acrylonitrile	3.075	53	284	0.240	ug/l	# 84
16) Acetone	2.398	43	3491	3.180	ug/l	98
17) Carbon Disulfide	2.508	76	1384	0.277	ug/l	96
20) Methylene Chloride	2.794	84	589	0.249	ug/l	# 73
23) Vinyl Acetate	3.727	43	972	0.202	ug/l	# 73
25) 2-Butanone	4.574	43	2666	1.690	ug/l	96
26) 2,2-Dichloropropane	4.587	77	2633	0.950	ug/l	# 54
29) Tetrahydrofuran	5.050	42	346	0.345	ug/l	# 50
31) Cyclohexane	5.550	56	4229	1.285	ug/l	# 7
38) Carbon Tetrachloride	5.556	117	18217	6.761	ug/l	# 14
49) 1,4-Dioxane	7.732	88	20	0.377	ug/l	# 12
51) 4-Methyl-2-Pentanone	8.567	43	684	0.221	ug/l	94
59) 2-Hexanone	9.439	43	624	0.276	ug/l	80
68) m/p-Xylenes	10.299	106	956	0.248	ug/l	87
76) 1,2,3-Trichloropropane	11.079	75	64995	24.922	ug/l	# 39
81) trans-1,4-Dichloro-2-b...	11.079	75	64995	81.239	ug/l	# 5
82) 4-Chlorotoluene	11.451	91	1715	0.230	ug/l	98
86) p-Isopropyltoluene	12.006	119	1879	0.236	ug/l	# 78
87) 1,3-Dichlorobenzene	11.969	146	1095	0.263	ug/l	94
88) 1,4-Dichlorobenzene	11.969	146	1095	0.258	ug/l	95
89) n-Butylbenzene	12.329	91	1915	0.271	ug/l	96
91) 1,2-Dichlorobenzene	12.335	146	887	0.216	ug/l	95
93) 1,2,4-Trichlorobenzene	13.585	180	1314	0.520	ug/l	90
94) Hexachlorobutadiene	13.719	225	631	0.610	ug/l	83
95) Naphthalene	13.780	128	2928	0.351	ug/l	# 93
96) 1,2,3-Trichlorobenzene	13.963	180	1425	0.578	ug/l	81

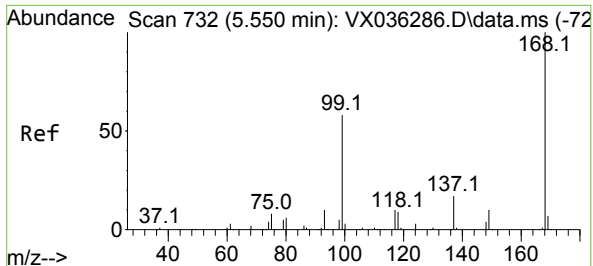
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X062323W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 23 15:03:28 2023
Response via : Initial Calibration

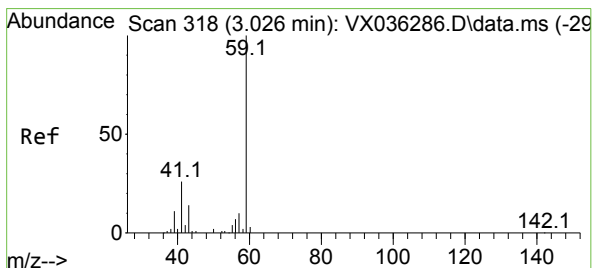
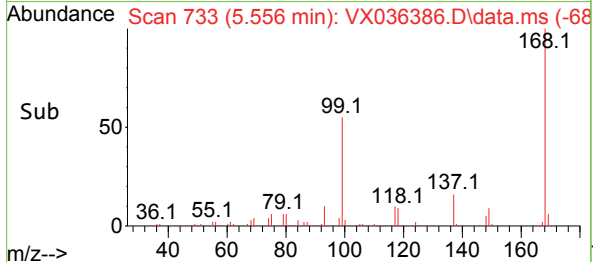
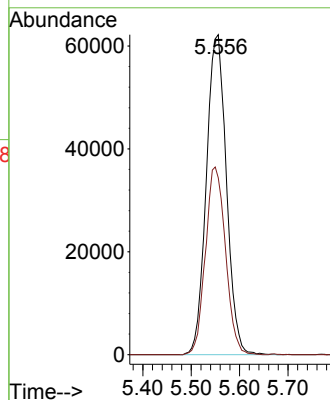
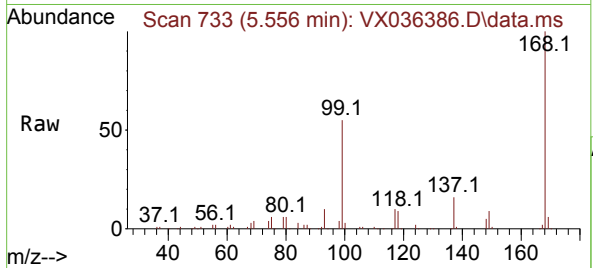




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.007 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

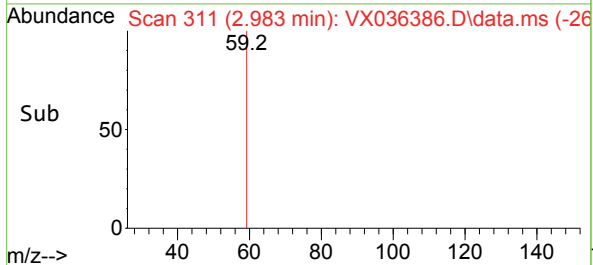
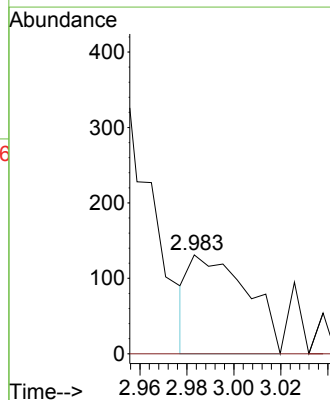
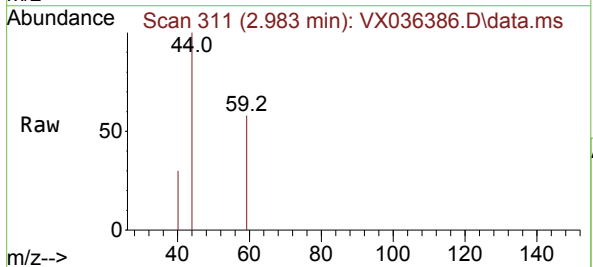
Instrument :
MSVOA_X
ClientSampleId :
TB-01-062923

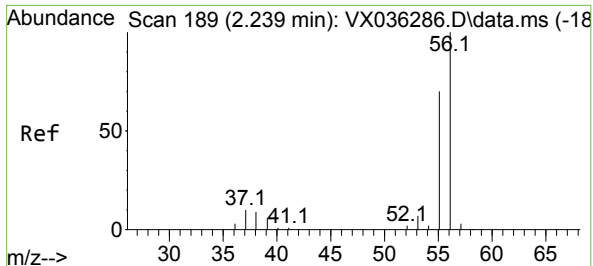
Tgt Ion:168 Resp: 179155
Ion Ratio Lower Upper
168 100
99 55.3 56.6 85.0#



#11
Tert butyl alcohol
Concen: 0.481 ug/l
RT: 2.983 min Scan# 311
Delta R.T. -0.030 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

Tgt Ion: 59 Resp: 225
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#





#13

Acrolein

Concen: 0.301 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.013 min

Lab File: VX036386.D

Acq: 30 Jun 2023 11:52

Instrument :

MSVOA_X

ClientSampleId :

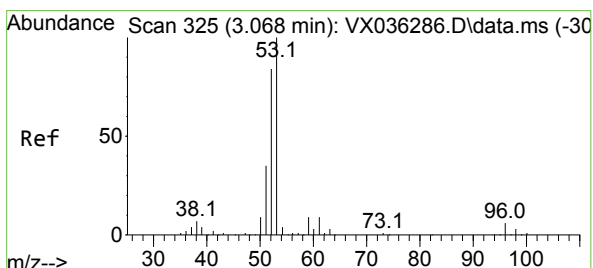
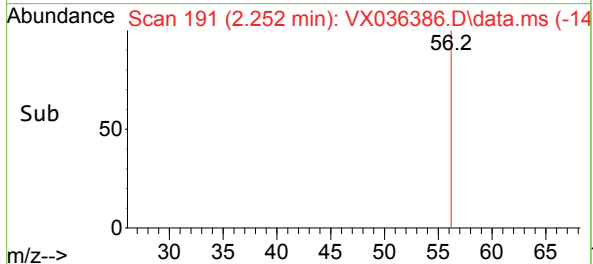
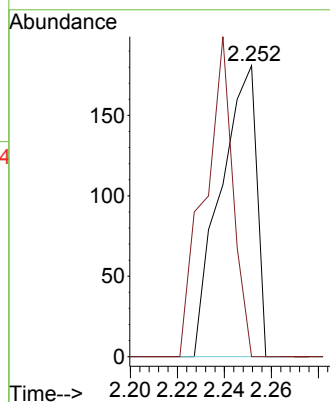
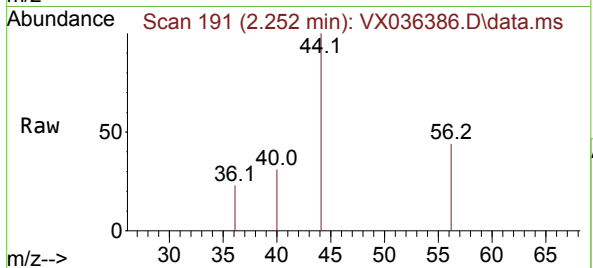
TB-01-062923

Tgt Ion: 56 Resp: 193

Ion Ratio Lower Upper

56 100

55 86.5 57.1 85.7#



#15

Acrylonitrile

Concen: 0.240 ug/l

RT: 3.075 min Scan# 326

Delta R.T. 0.001 min

Lab File: VX036386.D

Acq: 30 Jun 2023 11:52

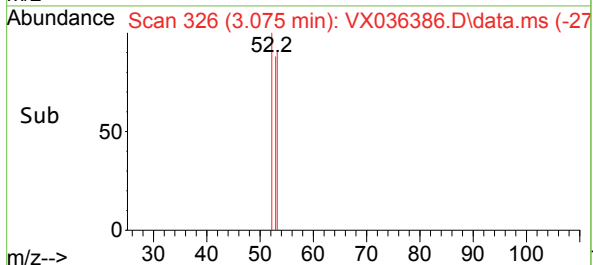
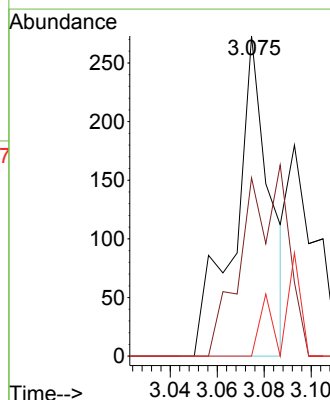
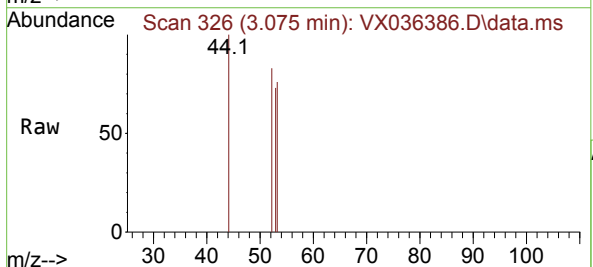
Tgt Ion: 53 Resp: 284

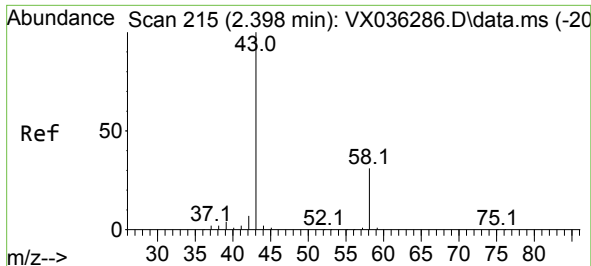
Ion Ratio Lower Upper

53 100

52 75.0 66.0 99.0

51 18.3 29.8 44.6#





#16

Acetone

Concen: 3.180 ug/l

RT: 2.398 min Scan# 215

Delta R.T. -0.006 min

Lab File: VX036386.D

Acq: 30 Jun 2023 11:52

Instrument :

MSVOA_X

ClientSampleId :

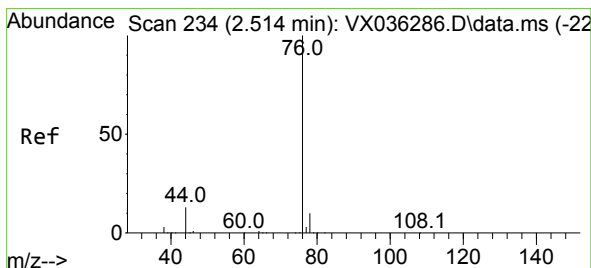
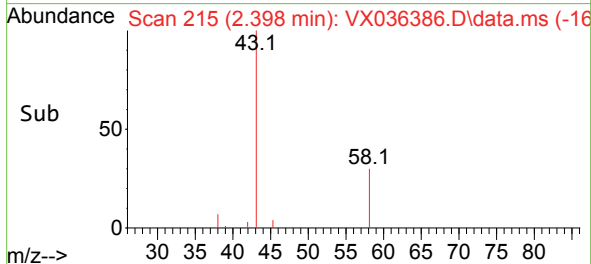
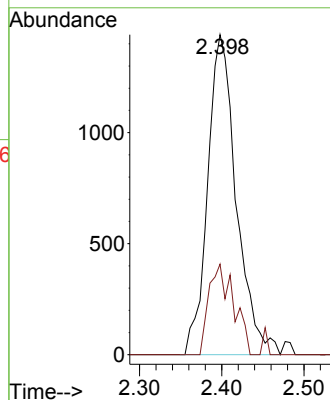
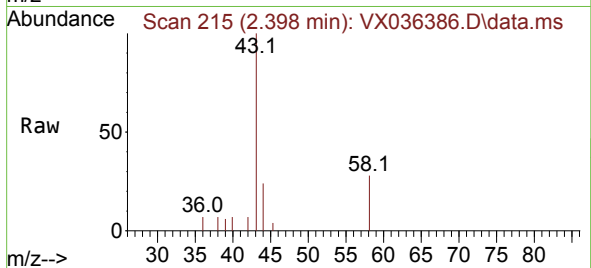
TB-01-062923

Tgt Ion: 43 Resp: 3491

Ion Ratio Lower Upper

43 100

58 28.3 21.9 32.9



#17

Carbon Disulfide

Concen: 0.277 ug/l

RT: 2.508 min Scan# 233

Delta R.T. -0.005 min

Lab File: VX036386.D

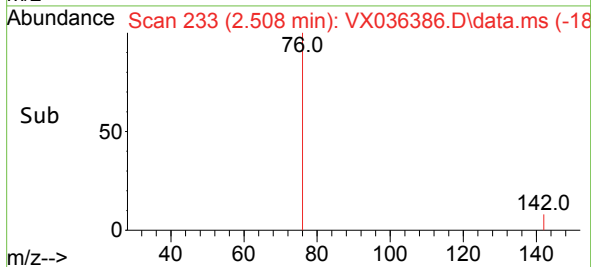
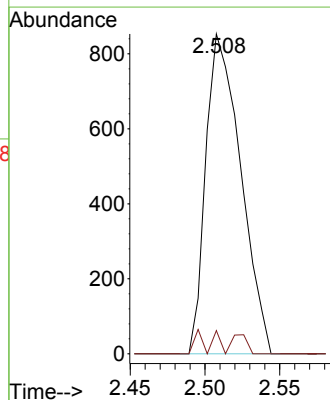
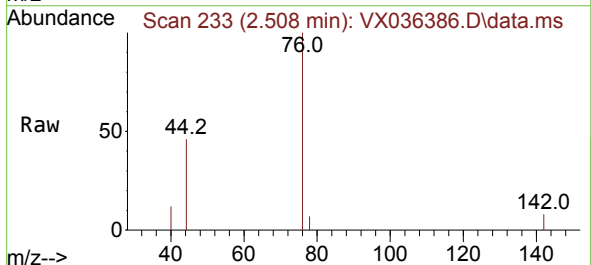
Acq: 30 Jun 2023 11:52

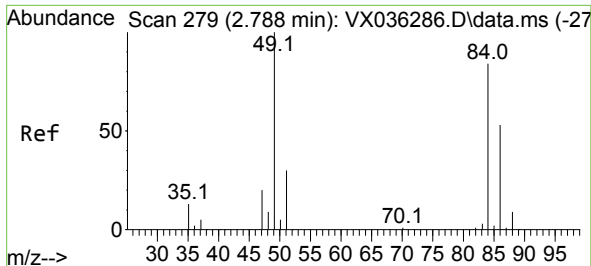
Tgt Ion: 76 Resp: 1384

Ion Ratio Lower Upper

76 100

78 7.3 7.0 10.6





#20

Methylene Chloride

Concen: 0.249 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX036386.D

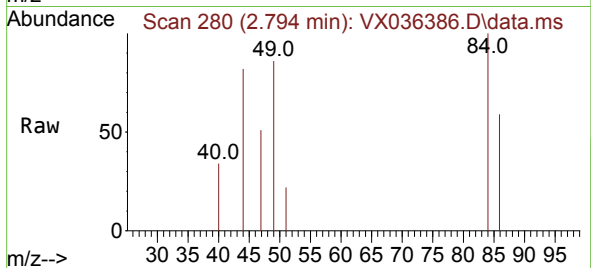
Acq: 30 Jun 2023 11:52

Instrument :

MSVOA_X

ClientSampleId :

TB-01-062923



Tgt Ion: 84 Resp: 589

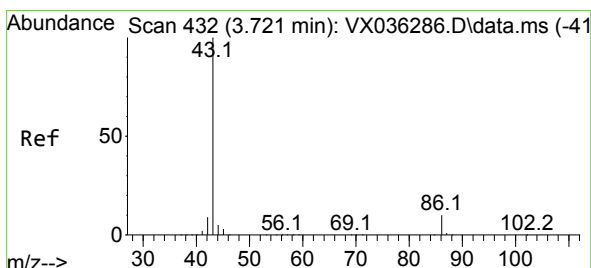
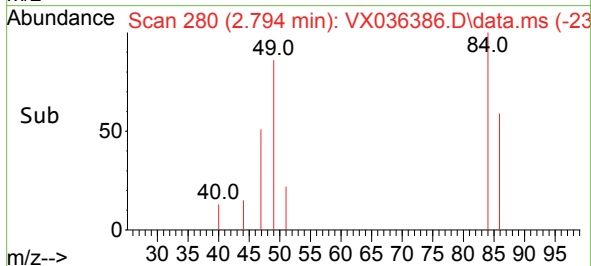
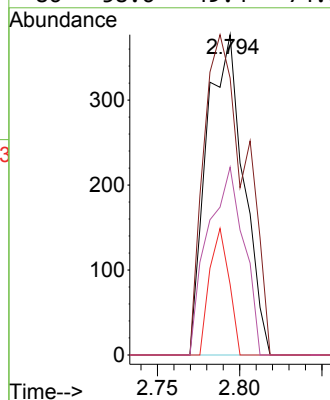
Ion Ratio Lower Upper

84 100

49 86.5 103.6 155.4#

51 22.0 33.8 50.6#

86 58.6 49.4 74.0



#23

Vinyl Acetate

Concen: 0.202 ug/l

RT: 3.727 min Scan# 433

Delta R.T. 0.006 min

Lab File: VX036386.D

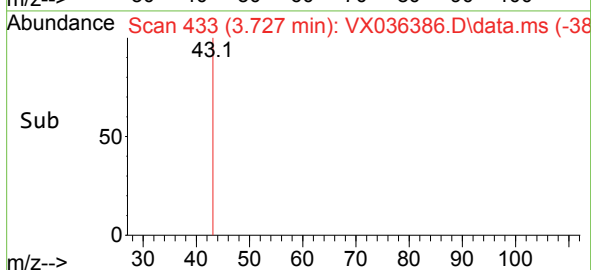
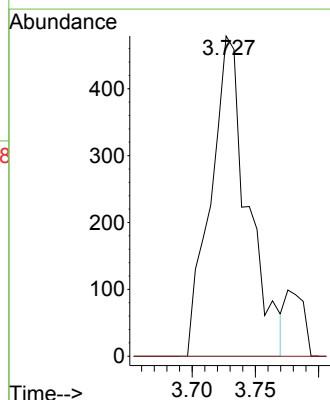
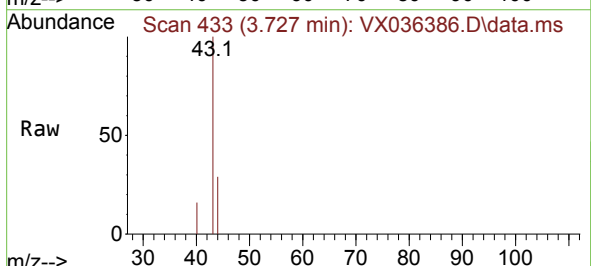
Acq: 30 Jun 2023 11:52

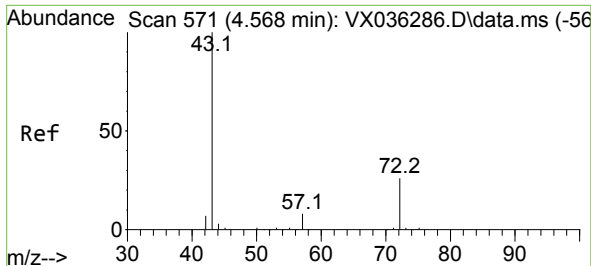
Tgt Ion: 43 Resp: 972

Ion Ratio Lower Upper

43 100

86 0.0 7.8 11.8#





#25

2-Butanone

Concen: 1.690 ug/l

RT: 4.574 min Scan# 571

Delta R.T. 0.006 min

Lab File: VX036386.D

Acq: 30 Jun 2023 11:52

Instrument :

MSVOA_X

ClientSampleId :

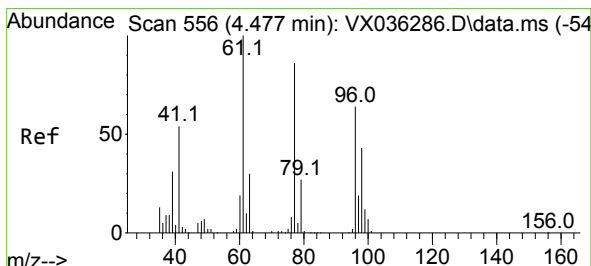
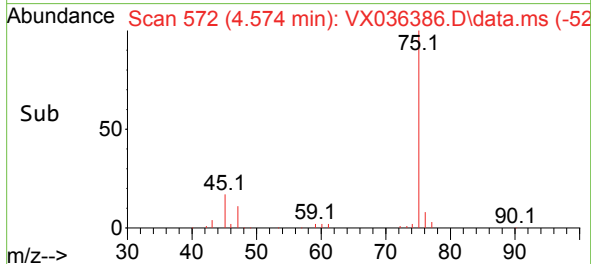
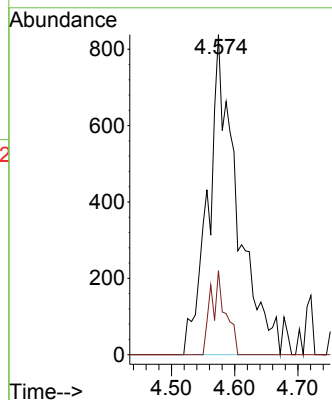
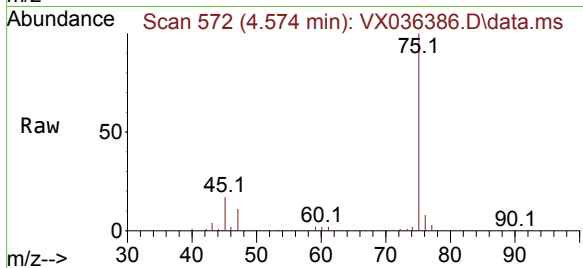
TB-01-062923

Tgt Ion: 43 Resp: 2666

Ion Ratio Lower Upper

43 100

72 26.3 19.4 29.2



#26

2,2-Dichloropropane

Concen: 0.950 ug/l

RT: 4.587 min Scan# 574

Delta R.T. 0.109 min

Lab File: VX036386.D

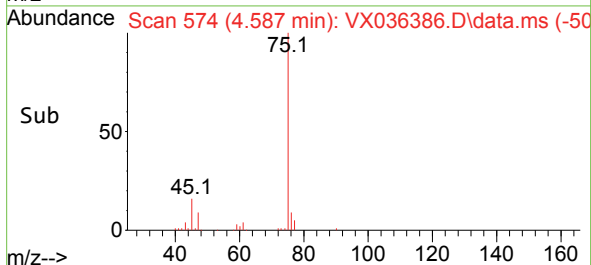
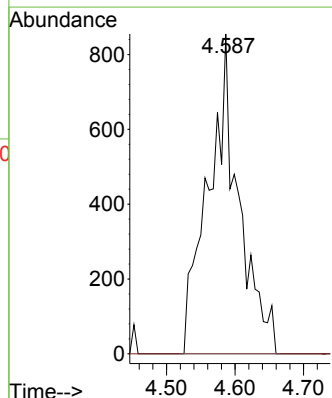
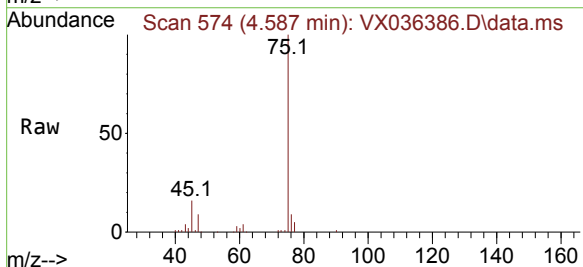
Acq: 30 Jun 2023 11:52

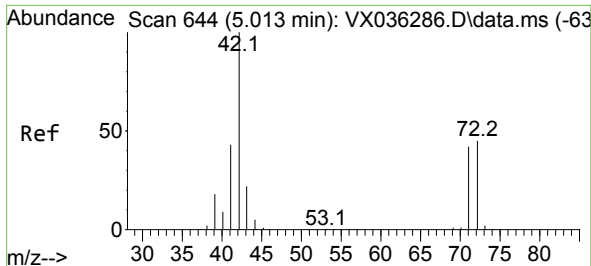
Tgt Ion: 77 Resp: 2633

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.3#





#29

Tetrahydrofuran

Concen: 0.345 ug/l

RT: 5.050 min Scan# 61

Delta R.T. 0.031 min

Lab File: VX036386.D

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Instrument :

MSVOA_X

ClientSampleId :

TB-01-062923

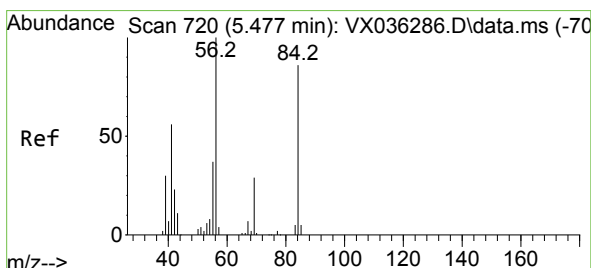
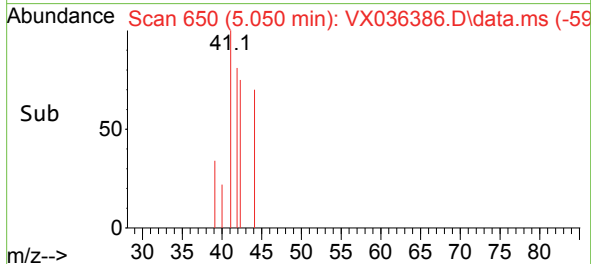
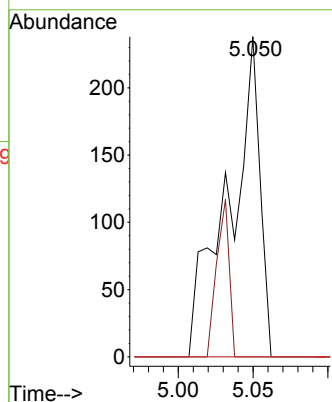
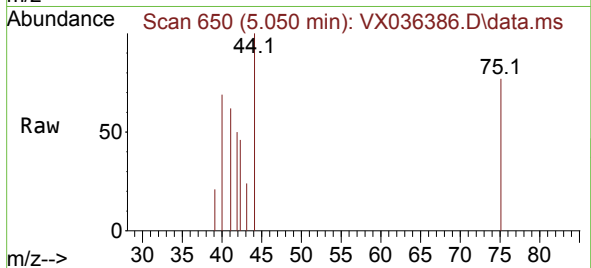
Tgt Ion: 42 Resp: 346

Ion Ratio Lower Upper

42 100

72 19.7 34.2 51.4#

71 0.0 32.2 48.2#



#31

Cyclohexane

Concen: 1.285 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.080 min

Lab File: VX036386.D

Acq: 30 Jun 2023 11:52

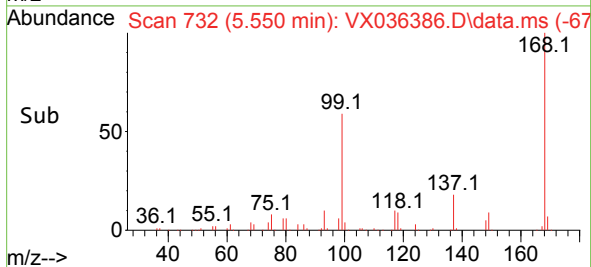
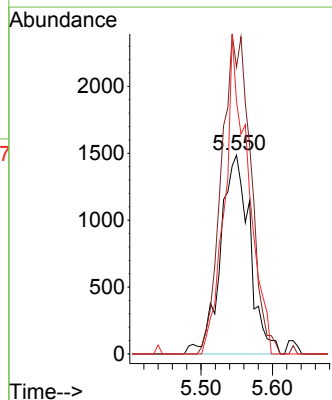
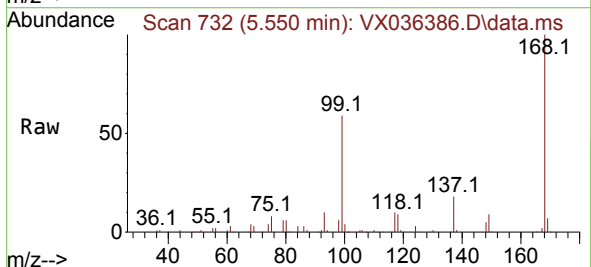
Tgt Ion: 56 Resp: 4229

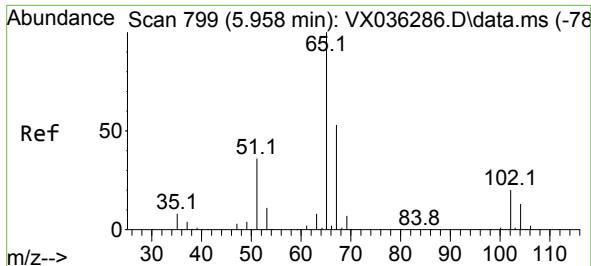
Ion Ratio Lower Upper

56 100

69 144.3 23.4 35.2#

84 127.1 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 43.653 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX036386.D

Acq: 30 Jun 2023 11:52

Instrument :

MSVOA_X

ClientSampleId :

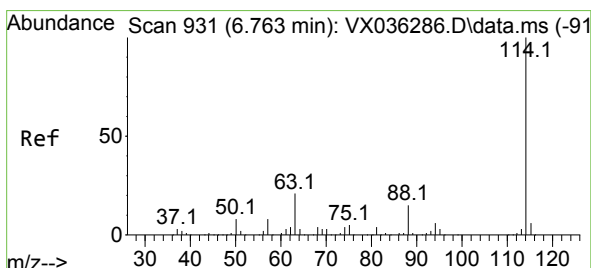
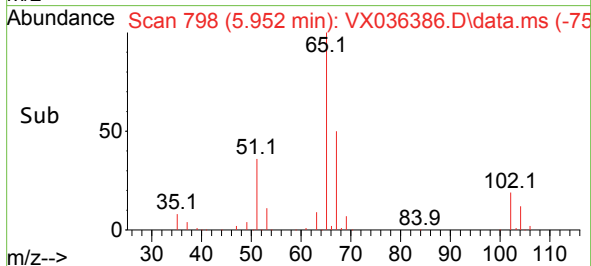
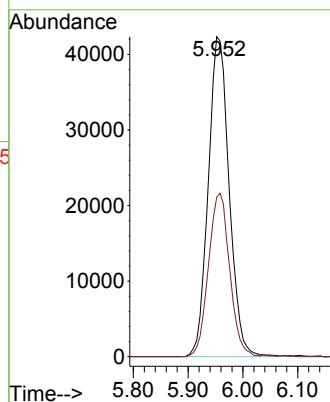
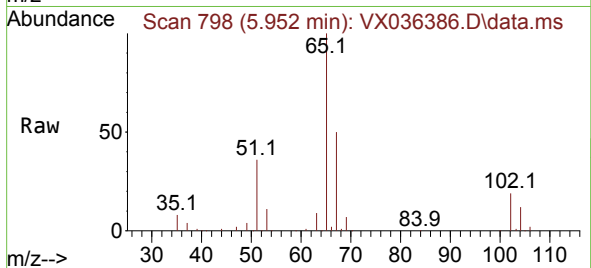
TB-01-062923

Tgt Ion: 65 Resp: 112103

Ion Ratio Lower Upper

65 100

67 51.7 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX036386.D

Acq: 30 Jun 2023 11:52

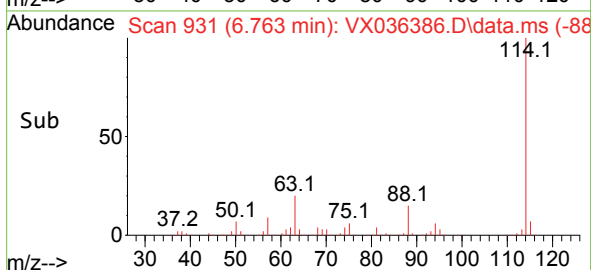
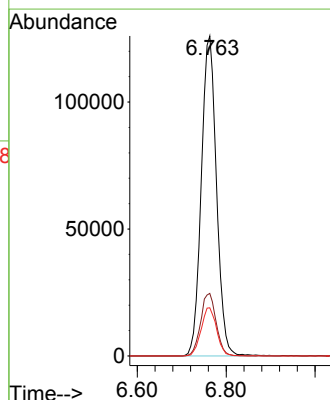
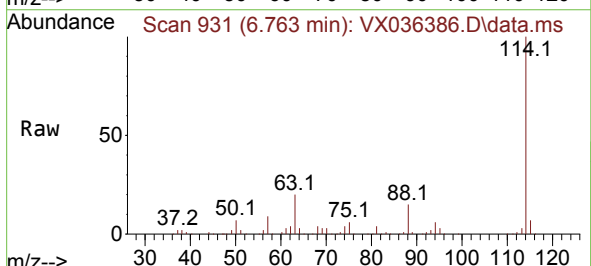
Tgt Ion:114 Resp: 300160

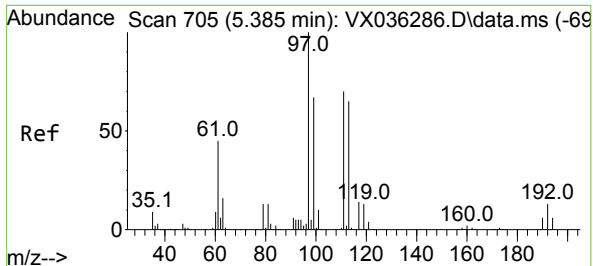
Ion Ratio Lower Upper

114 100

63 19.6 0.0 45.0

88 15.0 0.0 36.6

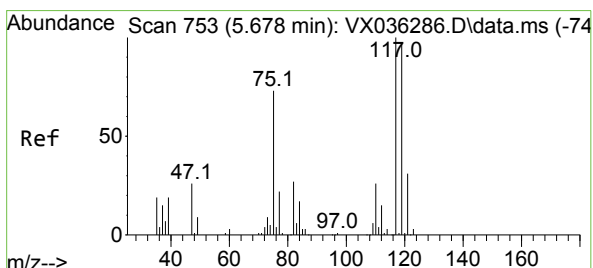
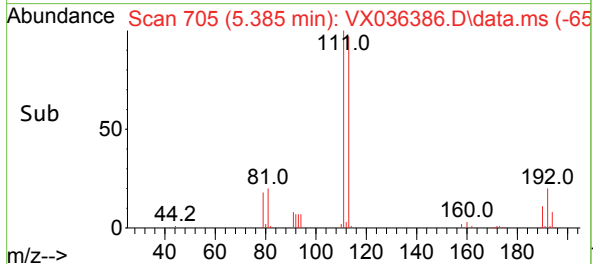
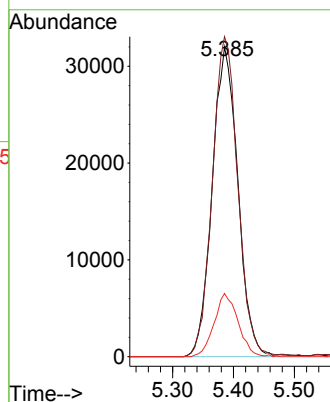
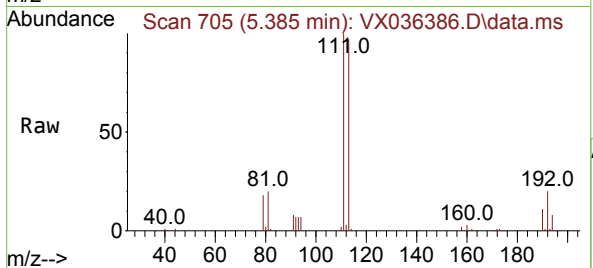




#35
Dibromofluoromethane
Concen: 47.336 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

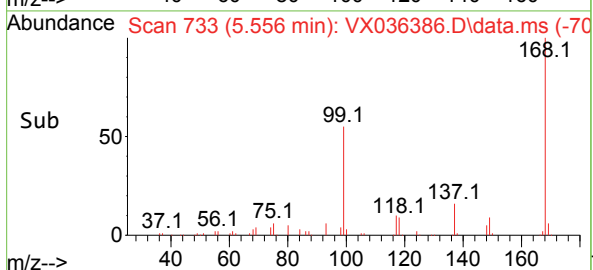
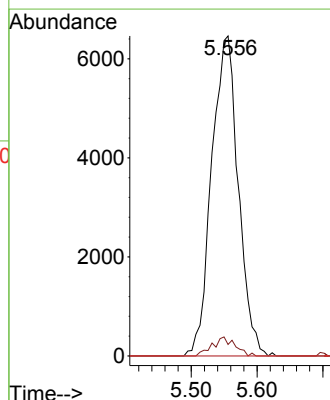
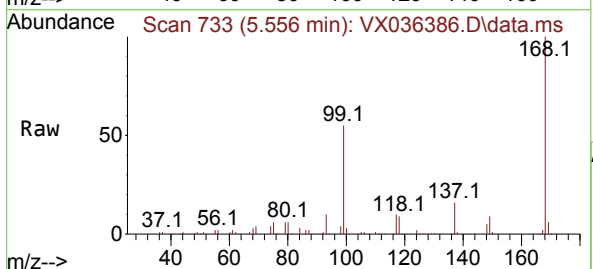
Instrument :
MSVOA_X
ClientSampleId :
TB-01-062923

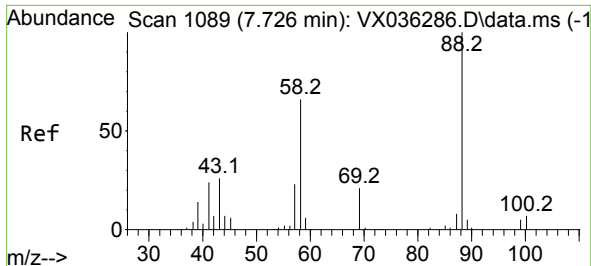
Tgt Ion:113 Resp: 93687
Ion Ratio Lower Upper
113 100
111 102.2 82.9 124.3
192 19.1 13.3 19.9



#38
Carbon Tetrachloride
Concen: 6.761 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.122 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

Tgt Ion:117 Resp: 18217
Ion Ratio Lower Upper
117 100
119 3.6 78.2 117.2#
121 0.0 24.4 36.6#

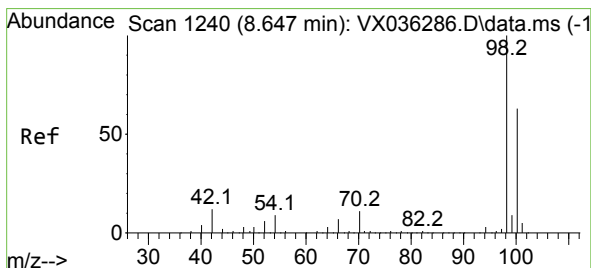
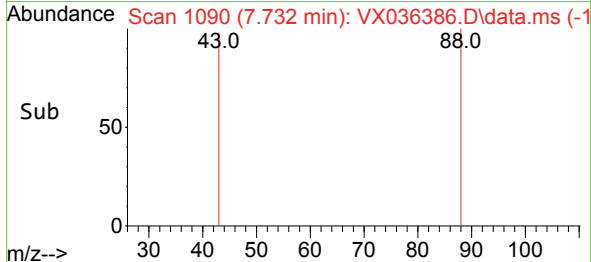
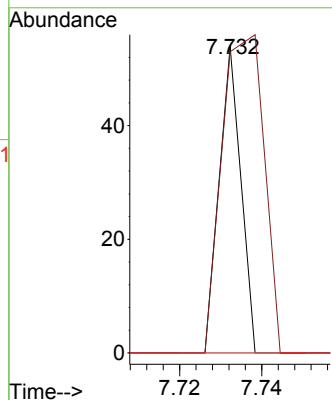
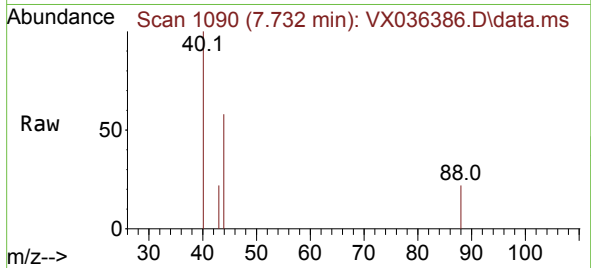




#49
1,4-Dioxane
Concen: 0.377 ug/l
RT: 7.732 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

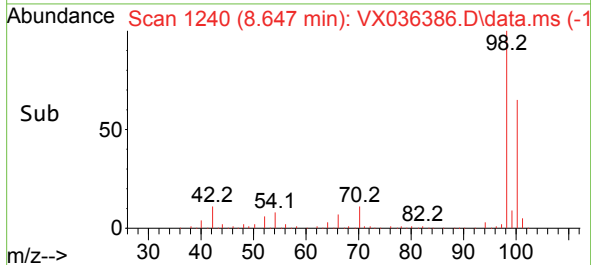
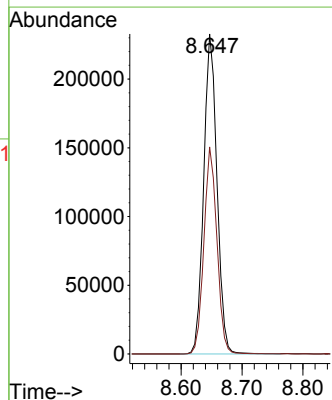
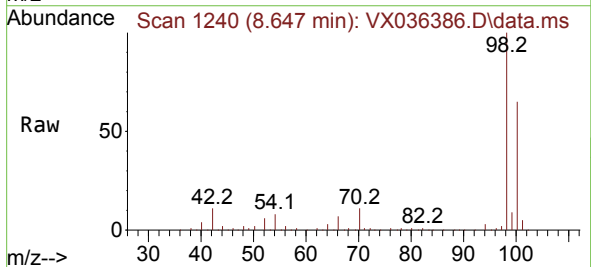
Instrument :
MSVOA_X
ClientSampleId :
TB-01-062923

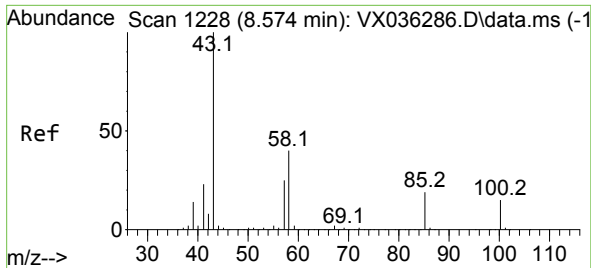
Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 200.0 0.0 0.0#
58 0.0 60.1 90.1#



#50
Toluene-d8
Concen: 47.723 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.001 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

Tgt Ion: 98 Resp: 352781
Ion Ratio Lower Upper
98 100
100 63.5 53.1 79.7

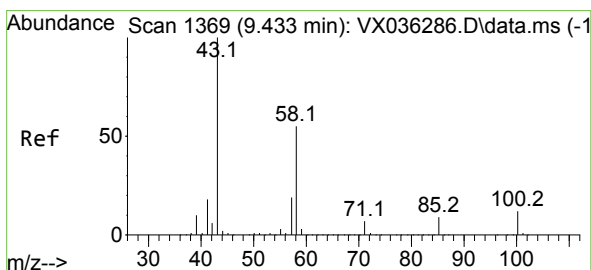
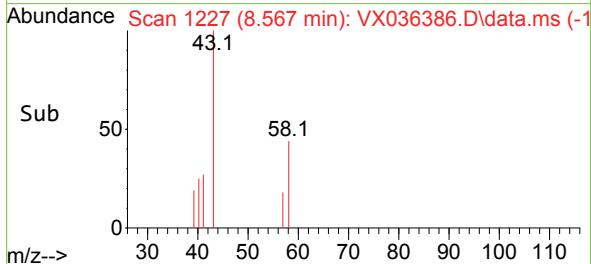
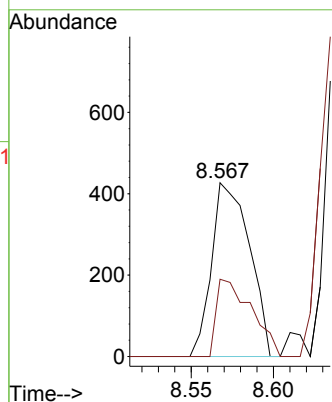
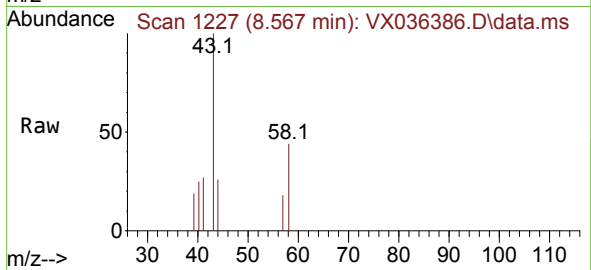




#51
4-Methyl-2-Pentanone
Concen: 0.221 ug/l
RT: 8.567 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

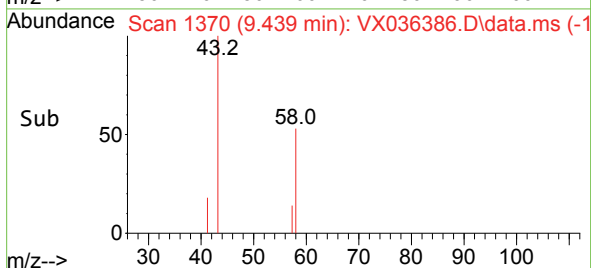
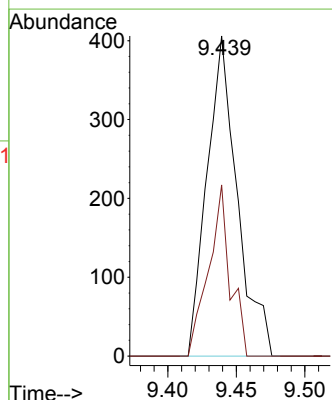
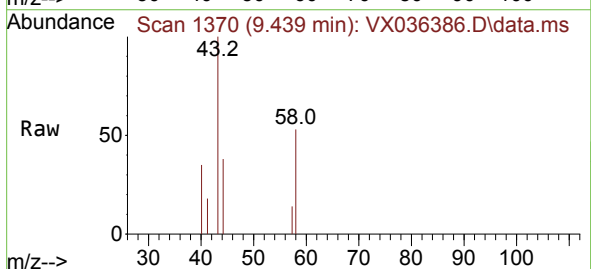
Instrument :
MSVOA_X
ClientSampleId :
TB-01-062923

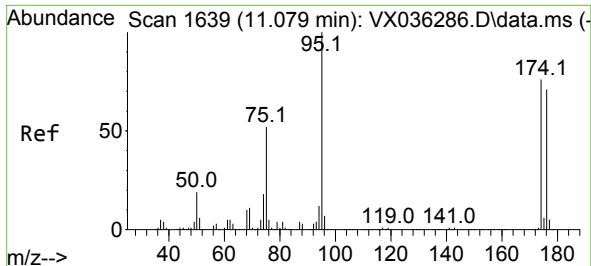
Tgt Ion: 43 Resp: 684
Ion Ratio Lower Upper
43 100
58 41.4 30.4 45.6



#59
2-Hexanone
Concen: 0.276 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.006 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

Tgt Ion: 43 Resp: 624
Ion Ratio Lower Upper
43 100
58 38.1 26.2 78.5

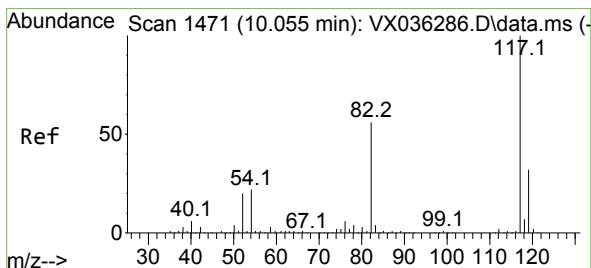
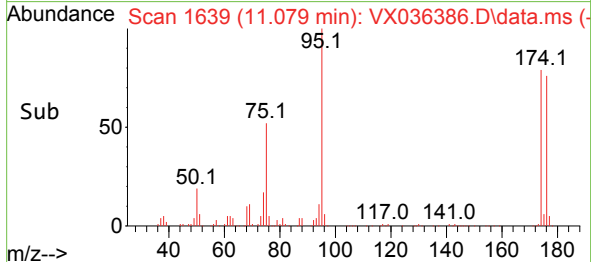
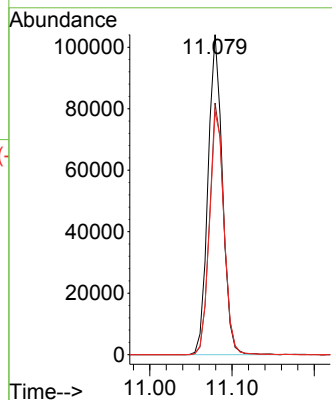
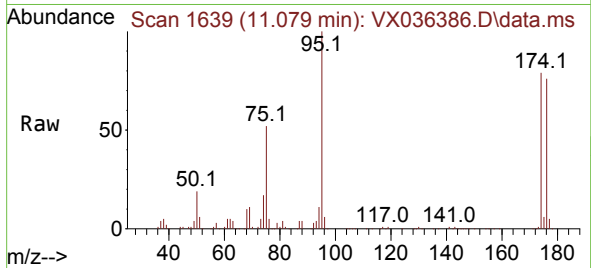




#62
4-Bromofluorobenzene
Concen: 48.605 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

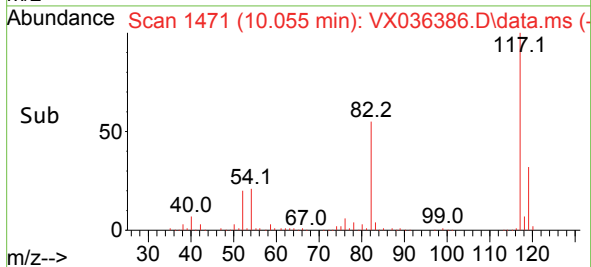
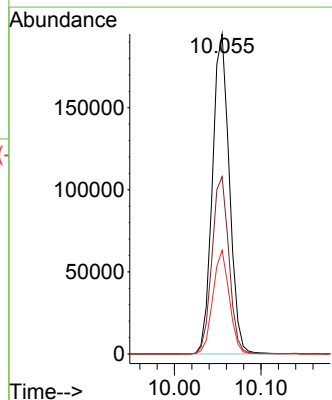
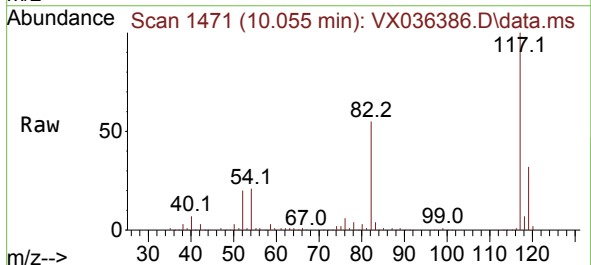
Instrument :
MSVOA_X
ClientSampleId :
TB-01-062923

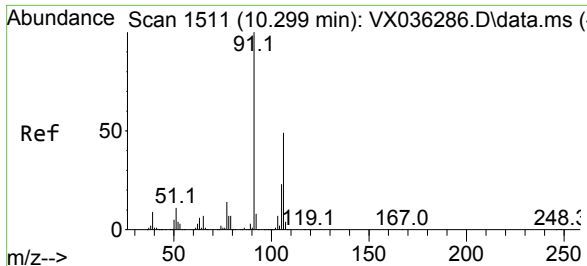
Tgt Ion: 95 Resp: 126557
Ion Ratio Lower Upper
95 100
174 78.0 0.0 135.6
176 77.2 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

Tgt Ion: 117 Resp: 265251
Ion Ratio Lower Upper
117 100
82 55.4 46.2 69.4
119 32.4 25.5 38.3

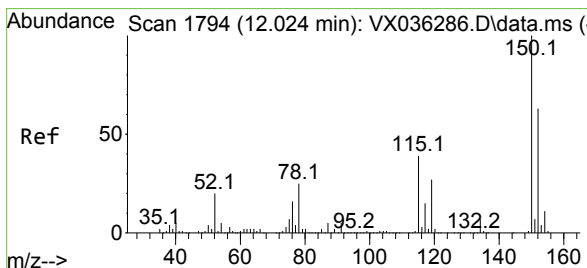
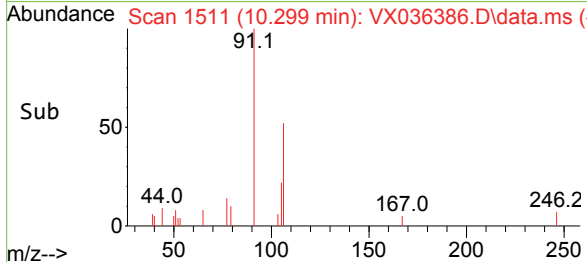
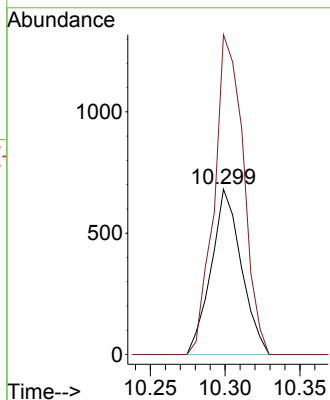
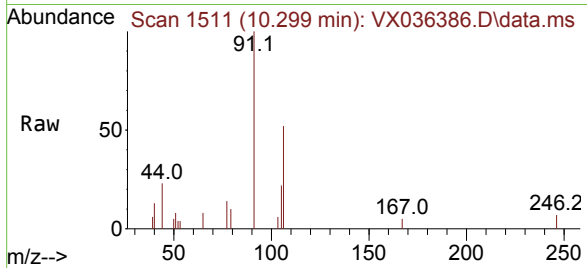




#68
m/p-Xylenes
Concen: 0.248 ug/l
RT: 10.299 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

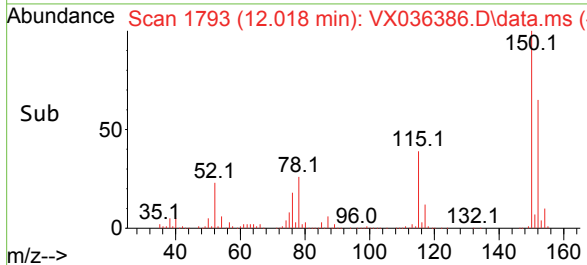
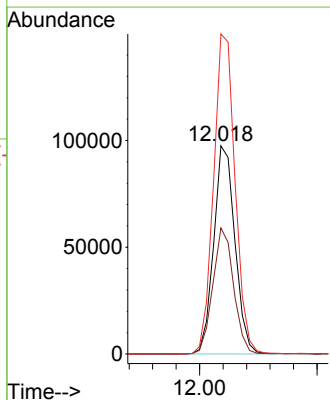
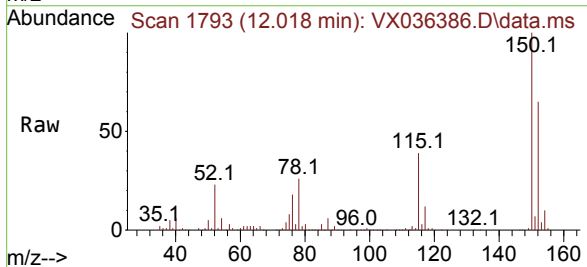
Instrument :
MSVOA_X
ClientSampleId :
TB-01-062923

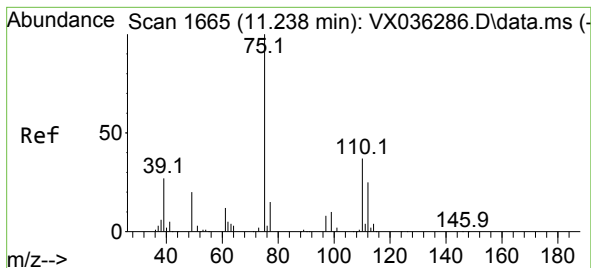
Tgt Ion:106 Resp: 956
Ion Ratio Lower Upper
106 100
91 187.3 165.5 248.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

Tgt Ion:152 Resp: 122265
Ion Ratio Lower Upper
152 100
115 59.3 43.3 129.9
150 156.1 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 24.922 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX036386.D

Acq: 30 Jun 2023 11:52

Instrument :

MSVOA_X

ClientSampleId :

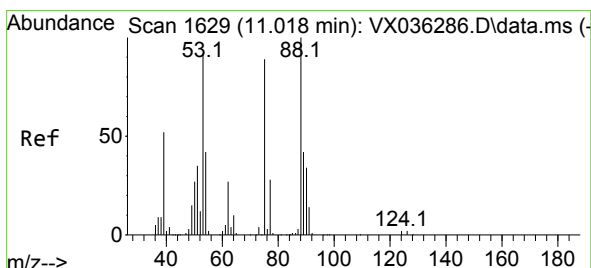
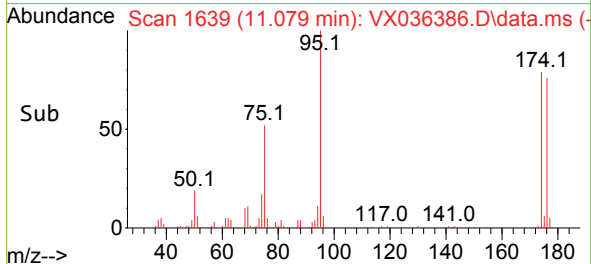
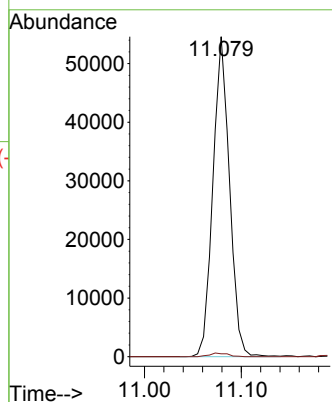
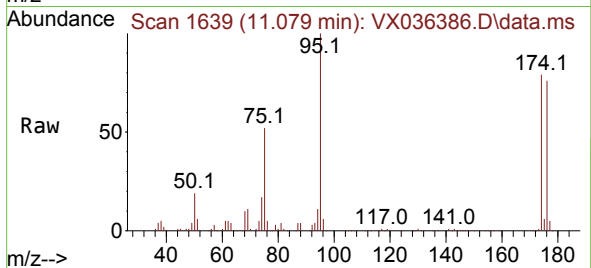
TB-01-062923

Tgt Ion: 75 Resp: 64995

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 81.239 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX036386.D

Acq: 30 Jun 2023 11:52

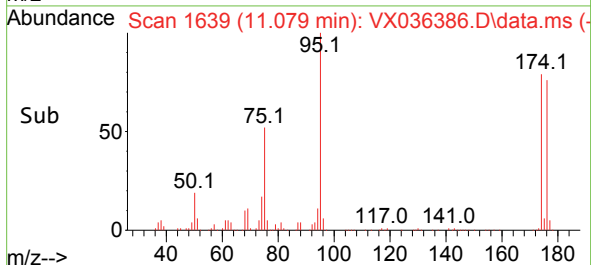
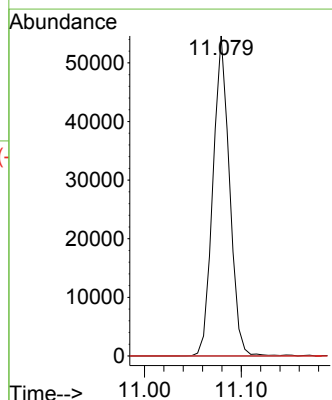
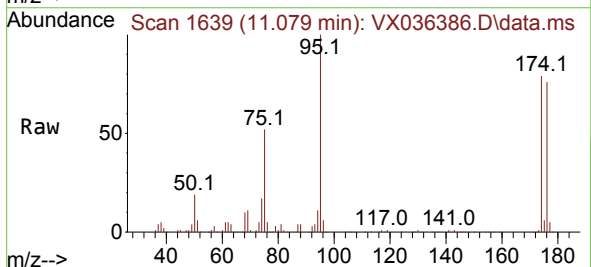
Tgt Ion: 75 Resp: 64995

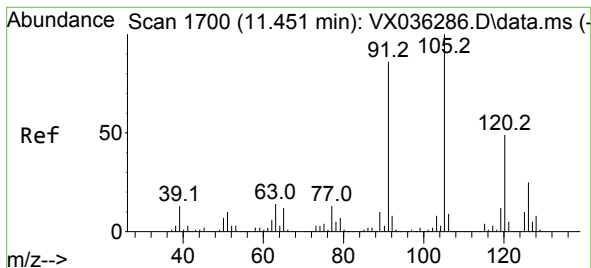
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

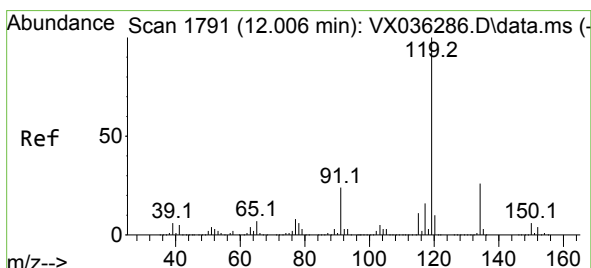
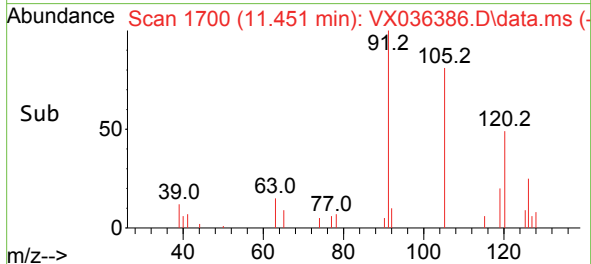
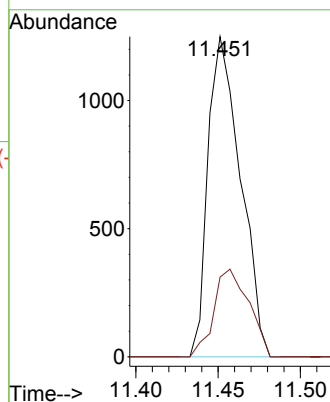
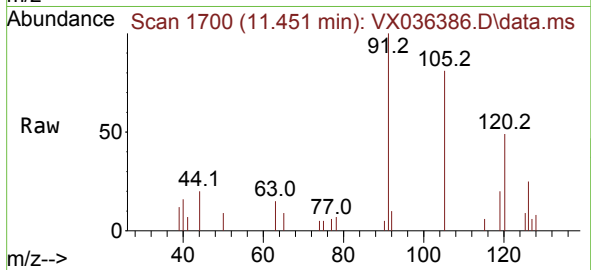




#82
4-Chlorotoluene
Concen: 0.230 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

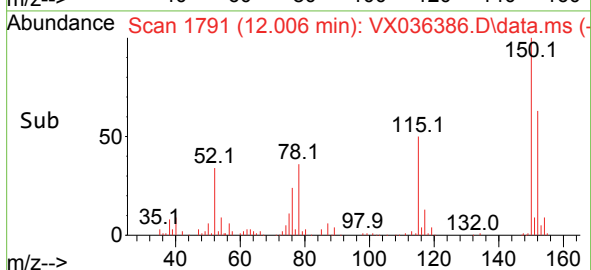
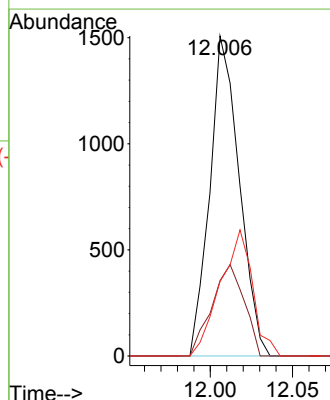
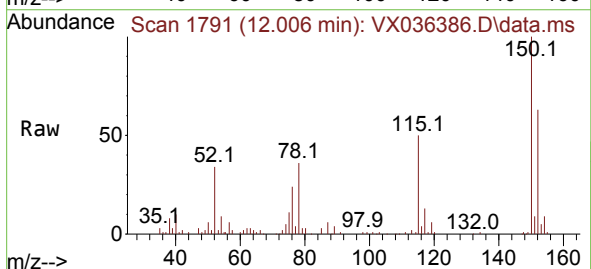
Instrument :
MSVOA_X
ClientSampleId :
TB-01-062923

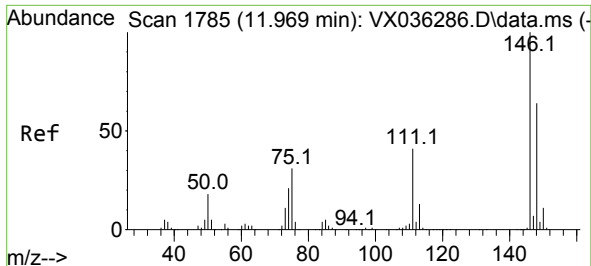
Tgt Ion: 91 Resp: 1715
Ion Ratio Lower Upper
91 100
126 29.4 14.2 42.6



#86
p-Isopropyltoluene
Concen: 0.236 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

Tgt Ion: 119 Resp: 1879
Ion Ratio Lower Upper
119 100
134 31.2 12.8 38.3
91 43.1 13.1 39.3#





#87

1,3-Dichlorobenzene

Concen: 0.263 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX036386.D

Acq: 30 Jun 2023 11:52

Instrument :

MSVOA_X

ClientSampleId :

TB-01-062923

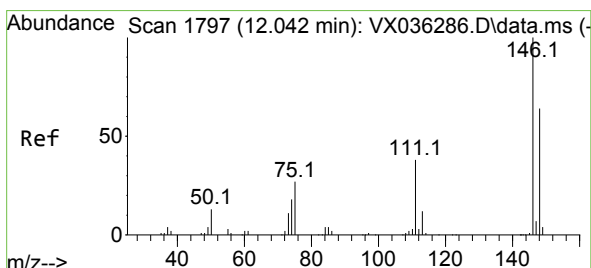
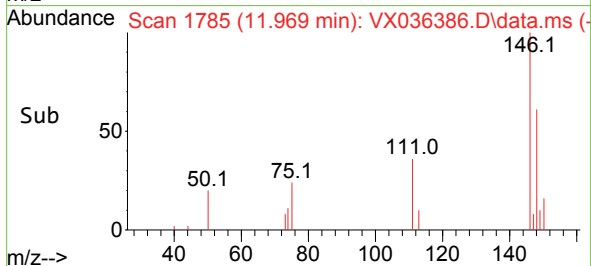
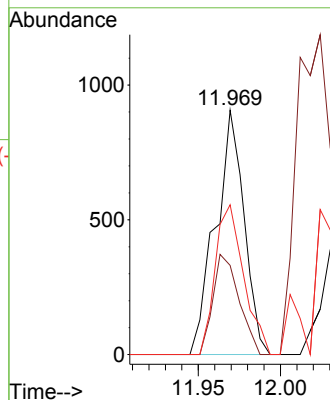
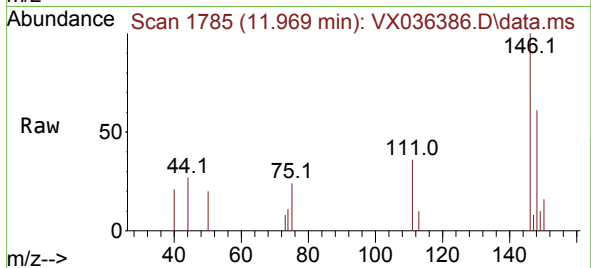
Tgt Ion:146 Resp: 1095

Ion Ratio Lower Upper

146 100

111 37.4 22.1 66.1

148 61.3 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 0.258 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.073 min

Lab File: VX036386.D

Acq: 30 Jun 2023 11:52

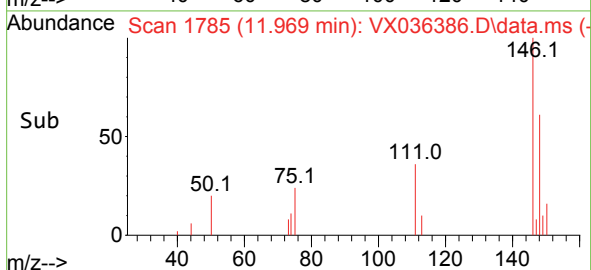
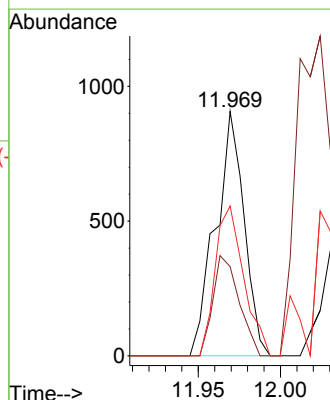
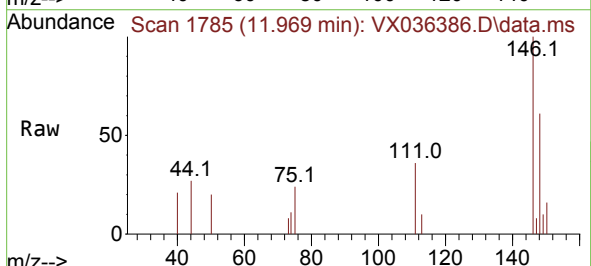
Tgt Ion:146 Resp: 1095

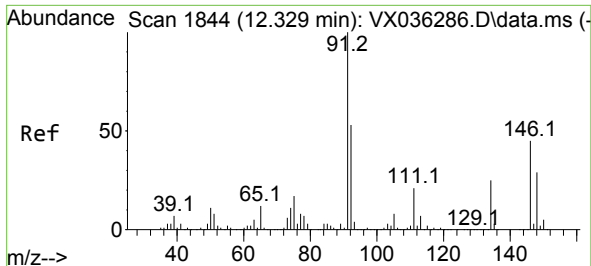
Ion Ratio Lower Upper

146 100

111 37.4 21.3 63.7

148 61.3 31.8 95.4

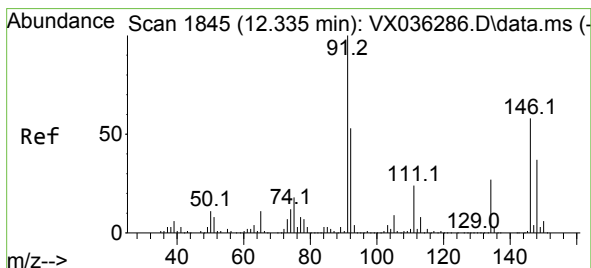
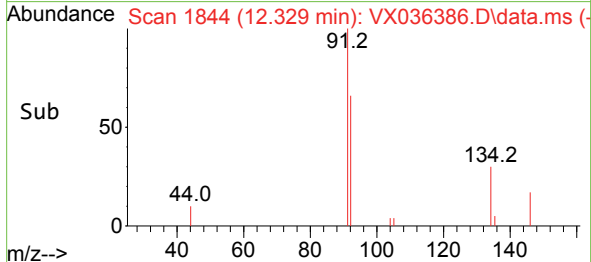
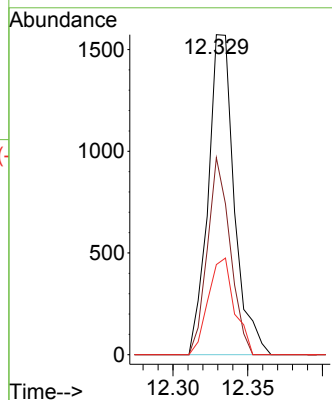
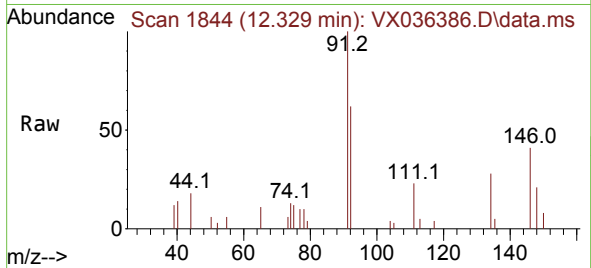




#89
n-Butylbenzene
Concen: 0.271 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. 0.000 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

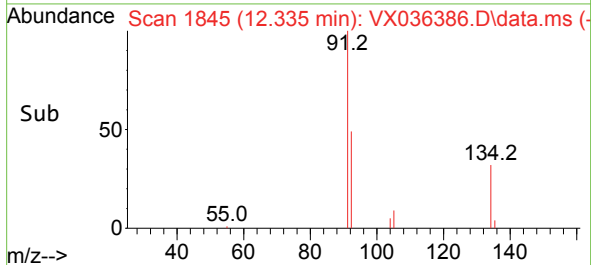
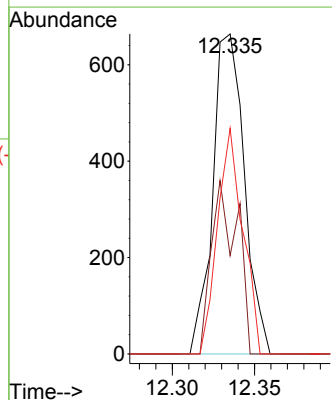
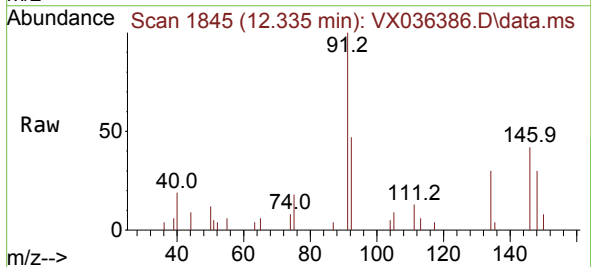
Instrument :
MSVOA_X
ClientSampleId :
TB-01-062923

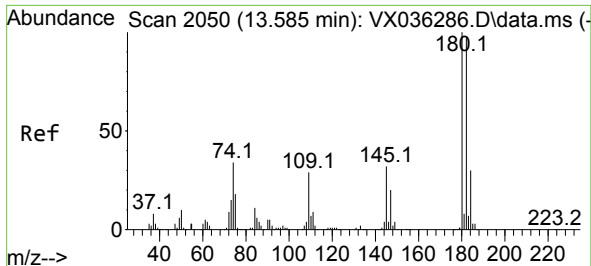
Tgt Ion: 91	Resp:	1915
Ion	Ratio	Lower Upper
91	100	
92	53.6	27.4 82.0
134	30.3	12.6 37.8



#91
1,2-Dichlorobenzene
Concen: 0.216 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

Tgt Ion: 146	Resp:	887
Ion	Ratio	Lower Upper
146	100	
111	44.4	22.4 67.0
148	56.5	31.6 95.0

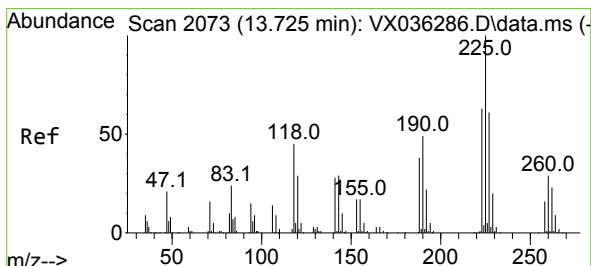
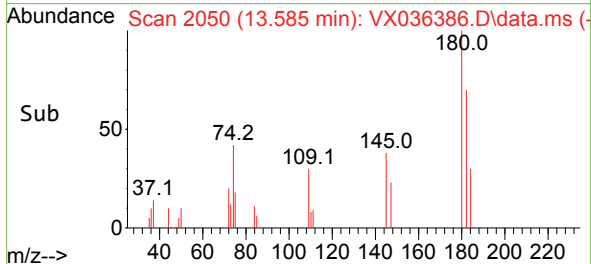
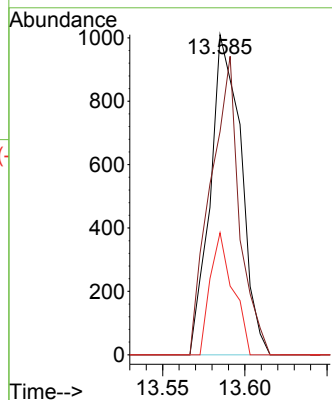
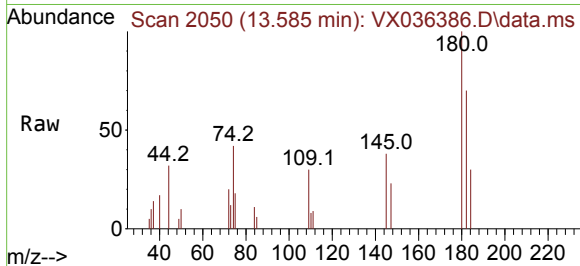




#93
1,2,4-Trichlorobenzene
Concen: 0.520 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

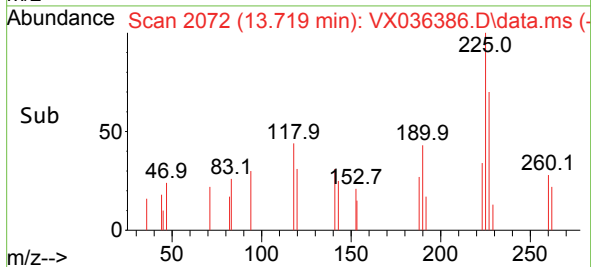
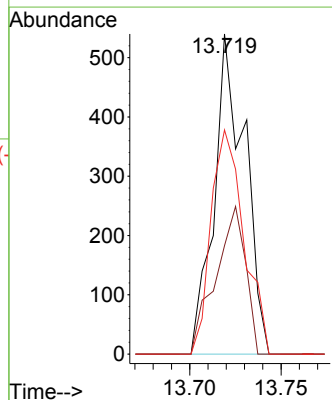
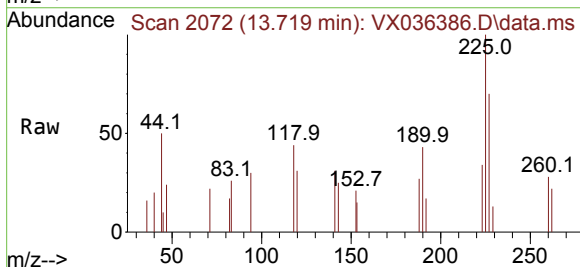
Instrument :
MSVOA_X
ClientSampleId :
TB-01-062923

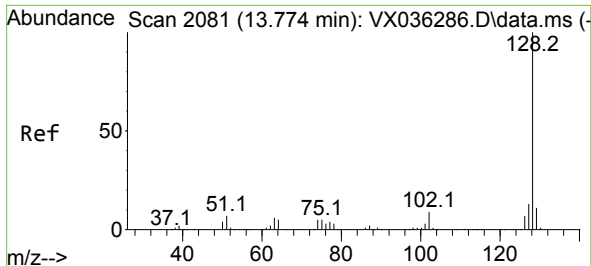
Tgt Ion:180	Resp:	1314
Ion	Ratio	Lower Upper
180	100	
182	87.5	48.3 144.8
145	28.2	18.0 54.0



#94
Hexachlorobutadiene
Concen: 0.610 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

Tgt Ion:225	Resp:	631
Ion	Ratio	Lower Upper
225	100	
223	44.8	31.1 93.2
227	75.0	32.5 97.5

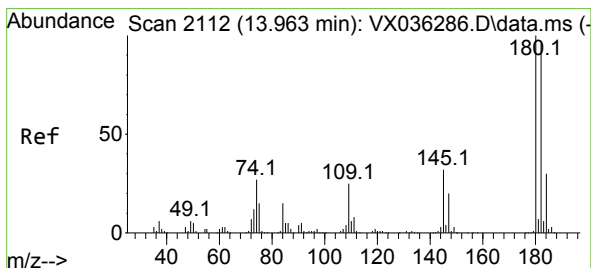
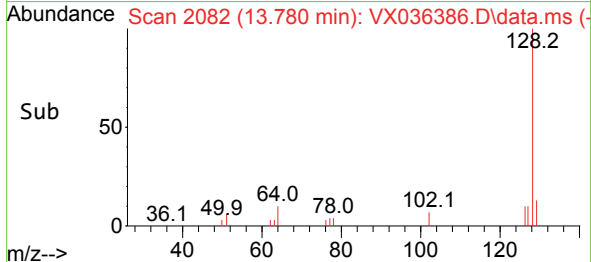
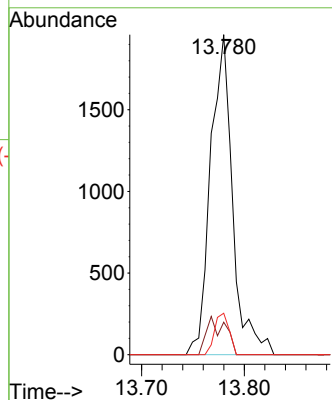
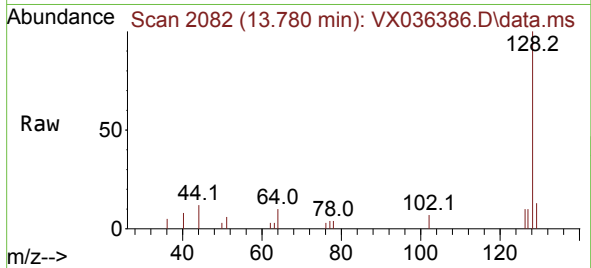




#95
Naphthalene
Concen: 0.351 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

Instrument :
MSVOA_X
ClientSampleId :
TB-01-062923

Tgt Ion:128 Resp: 2928
Ion Ratio Lower Upper
128 100
127 10.0 10.3 15.5#
129 8.5 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 0.578 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX036386.D
Acq: 30 Jun 2023 11:52

Tgt Ion:180 Resp: 1425
Ion Ratio Lower Upper
180 100
182 74.3 46.9 140.6
145 25.6 17.8 53.5

