

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082622\
 Data File : VX030855.D
 Acq On : 27 Aug 2022 08:13
 Operator : JC/MD
 Sample : N4281-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D1-20220819

Quant Time: Aug 27 22:21:40 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X082522W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 26 02:03:28 2022
 Response via : Initial Calibration

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

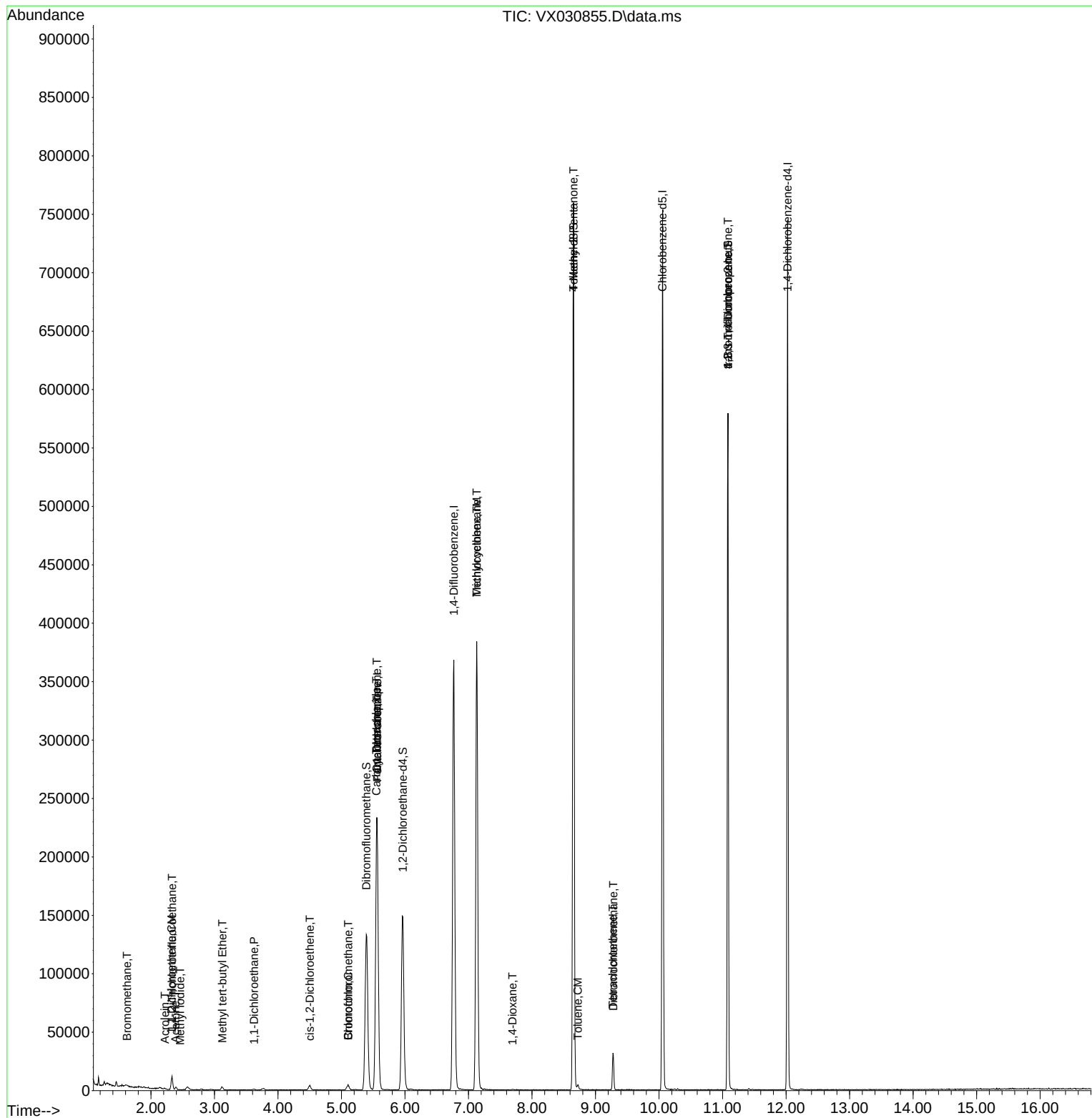
Internal Standards						
1) Pentafluorobenzene	5.562	168	221959	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	375436	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	336763	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	146672	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	144927	55.510	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 111.020%	
35) Dibromofluoromethane	5.391	113	118879	51.522	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.040%	
50) Toluene-d8	8.653	98	451242	56.122	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 112.240%	
62) 4-Bromofluorobenzene	11.085	95	152311	50.882	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 101.760%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.294	50	374	Below Cal	#	42
4) Vinyl Chloride	1.593	62	19	Below Cal	#	43
5) Bromomethane	1.624	94	311	0.301	ug/l #	67
6) Chloroethane	1.709	64	55	Below Cal	#	41
9) 1,1,2-Trichlorotrifluo...	2.331	101	4022	1.861	ug/l	89
10) Methyl Iodide	2.459	142	122	4.092	ug/l #	45
12) 1,1-Dichloroethene	2.325	96	668	0.332	ug/l #	91
13) Acrolein	2.221	56	20	10.091	ug/l #	14
16) Acetone	2.386	43	2395	1.985	ug/l #	80
17) Carbon Disulfide	2.514	76	206	Below Cal	#	74
19) Methyl tert-butyl Ether	3.123	73	2436	0.350	ug/l	97
20) Methylene Chloride	2.788	84	386	Below Cal	#	75
24) 1,1-Dichloroethane	3.623	63	1086	0.256	ug/l #	82
27) cis-1,2-Dichloroethene	4.501	96	2452	0.918	ug/l	92
28) Bromochloromethane	5.105	49	387	0.212	ug/l #	12
30) Chloroform	5.105	83	5075	1.138	ug/l	89
31) Cyclohexane	5.556	56	4663	1.397	ug/l #	1
36) 1,1-Dichloropropene	5.556	75	17493	5.567	ug/l #	48
38) Carbon Tetrachloride	5.550	117	23853	7.197	ug/l #	17
39) Methylcyclohexane	7.129	83	1912	0.508	ug/l #	1
44) Trichloroethene	7.129	130	146510	53.947	ug/l	97
49) 1,4-Dioxane	7.690	88	265	3.842	ug/l #	19
51) 4-Methyl-2-Pentanone	8.653	43	1886	0.499	ug/l #	1
52) Toluene	8.720	92	1215	0.207	ug/l	89
60) Dibromochloromethane	9.281	129	5818	2.140	ug/l #	11
64) Tetrachloroethene	9.275	164	5981	2.255	ug/l	90
76) 1,2,3-Trichloropropane	11.085	75	75898	23.619	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.085	75	75898	76.206	ug/l #	13

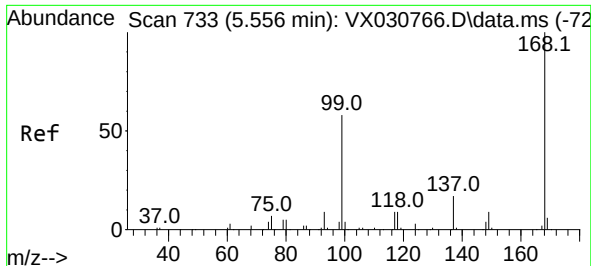
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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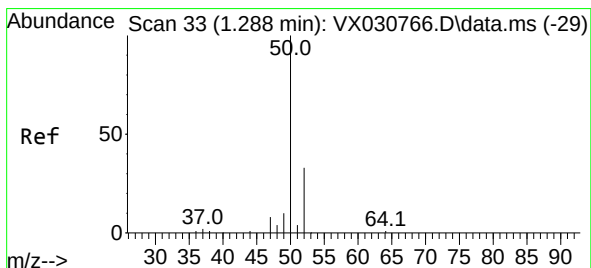
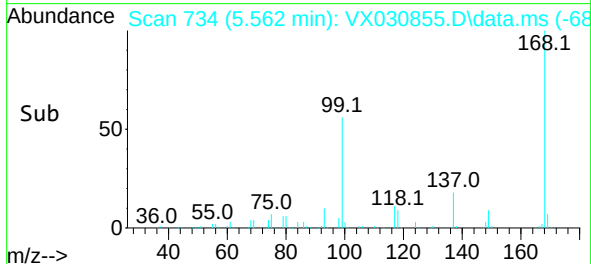
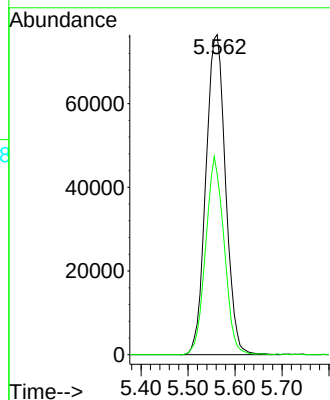
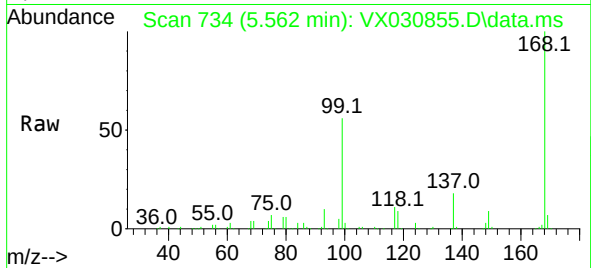




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

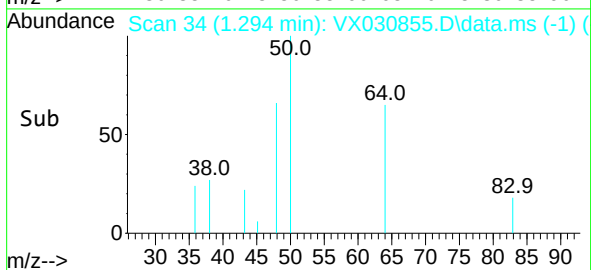
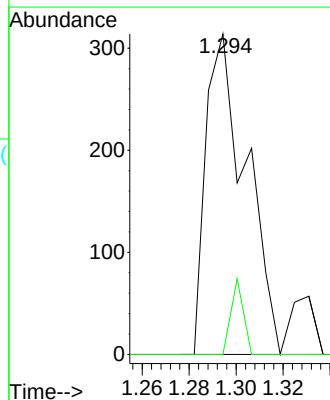
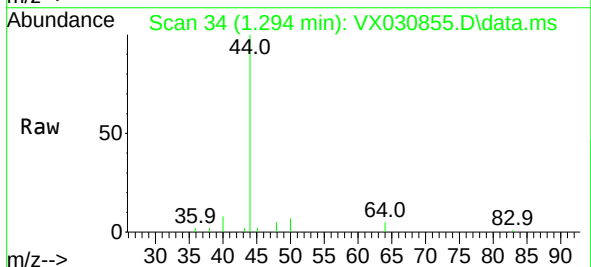
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20220819

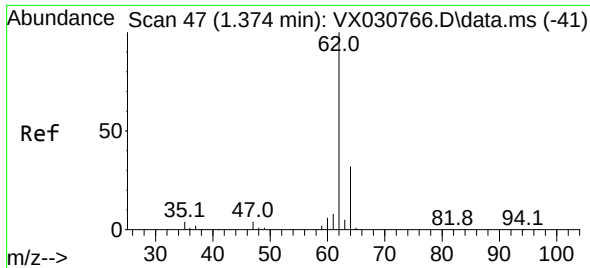
Tgt Ion:168 Resp: 221959
Ion Ratio Lower Upper
168 100
99 56.4 44.0 66.0



#3
Chloromethane
Concen: Below Cal
RT: 1.294 min Scan# 34
Delta R.T. 0.006 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Tgt Ion: 50 Resp: 374
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5

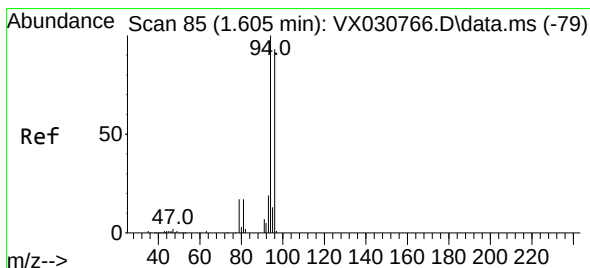
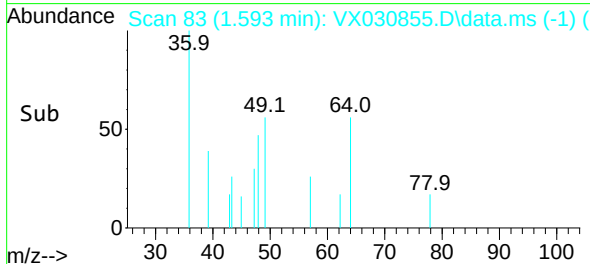
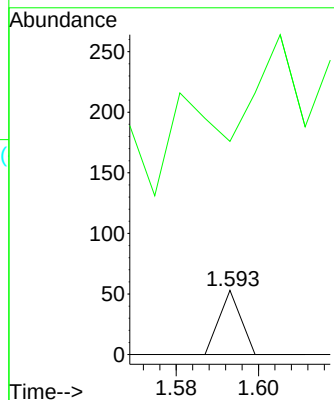
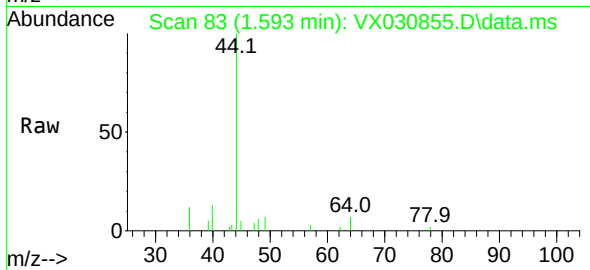




#4
 Vinyl Chloride
 Concen: Below Cal
 RT: 1.593 min Scan# 81
 Delta R.T. 0.219 min
 Lab File: VX030855.D
 Acq: 27 Aug 2022 08:13

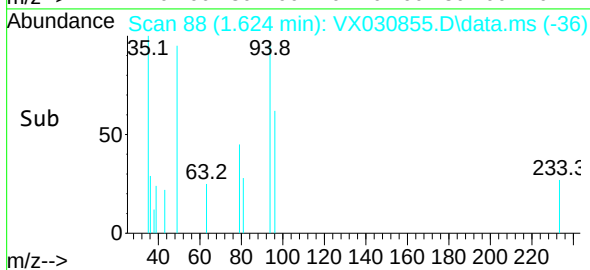
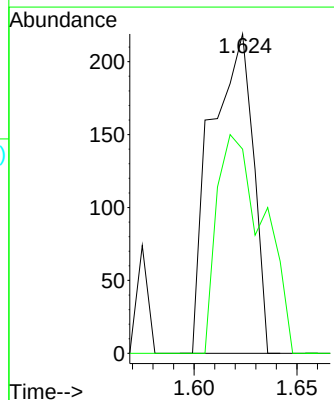
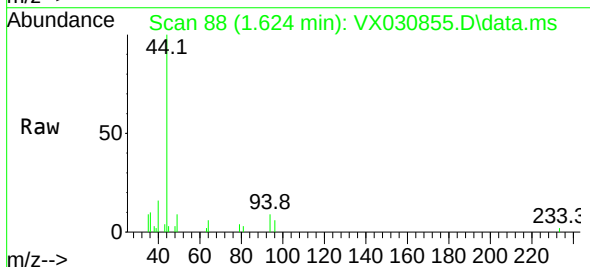
Instrument :
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 ClientSampleId :
 RE132D1-20220819

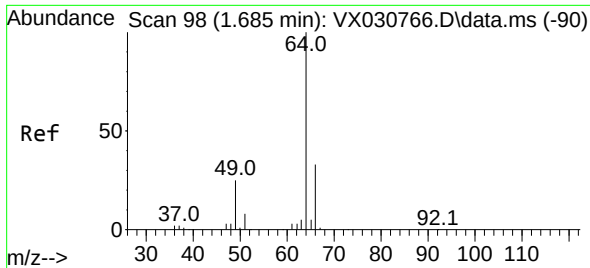
Tgt Ion: 62 Resp: 19
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.2 37.8#



#5
 Bromomethane
 Concen: 0.301 ug/l
 RT: 1.624 min Scan# 88
 Delta R.T. 0.018 min
 Lab File: VX030855.D
 Acq: 27 Aug 2022 08:13

Tgt Ion: 94 Resp: 311
 Ion Ratio Lower Upper
 94 100
 96 63.9 76.9 115.3#

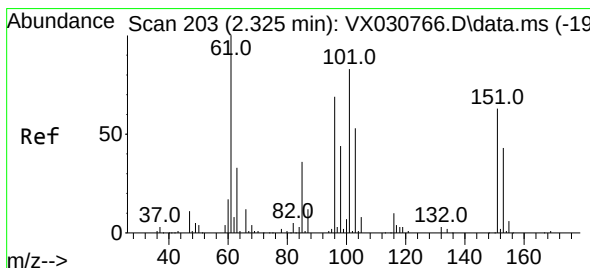
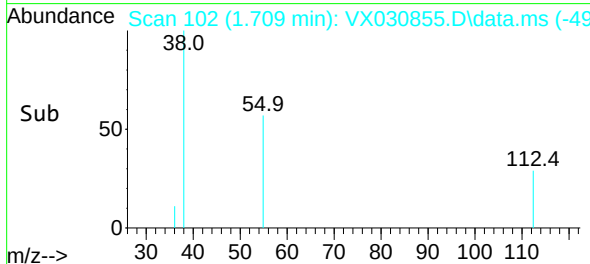
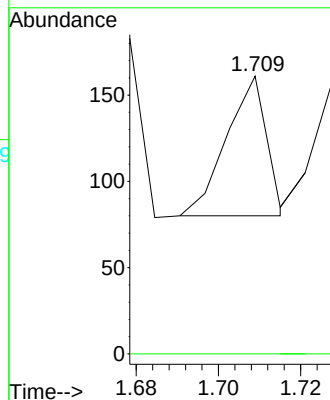
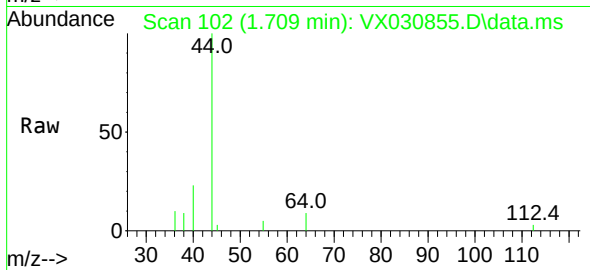




#6
Chloroethane
Concen: Below Cal
RT: 1.709 min Scan# 102
Delta R.T. 0.024 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

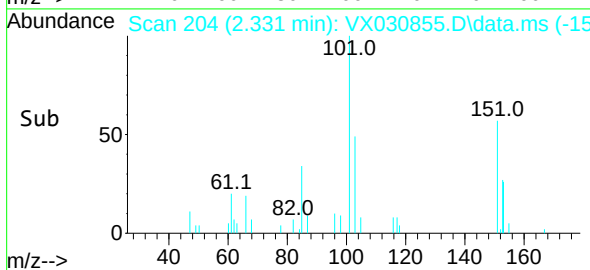
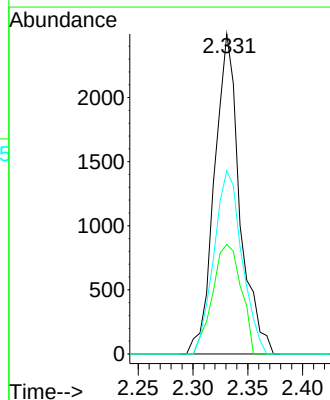
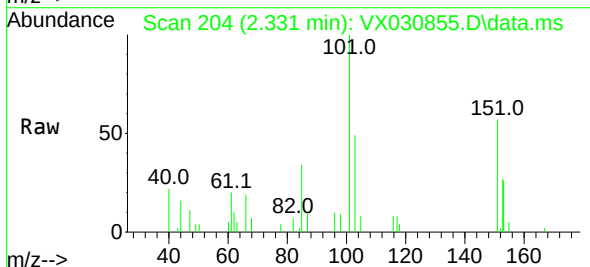
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20220819

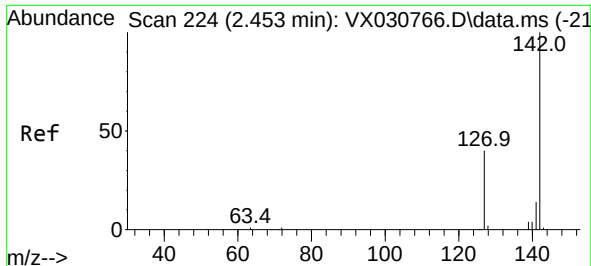
Tgt Ion: 64 Resp: 55
Ion Ratio Lower Upper
64 100
66 0.0 27.2 40.8#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.861 ug/l
RT: 2.331 min Scan# 204
Delta R.T. 0.006 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Tgt Ion: 101 Resp: 4022
Ion Ratio Lower Upper
101 100
85 38.4 34.0 51.0
151 63.1 59.4 89.0

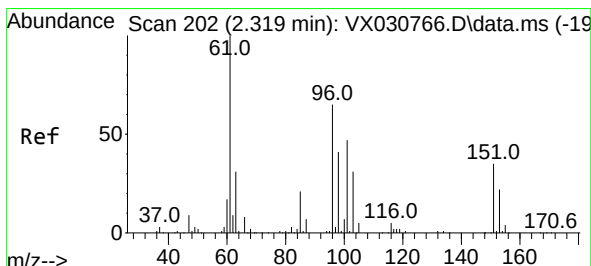
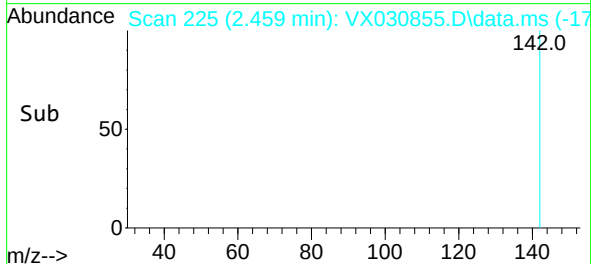
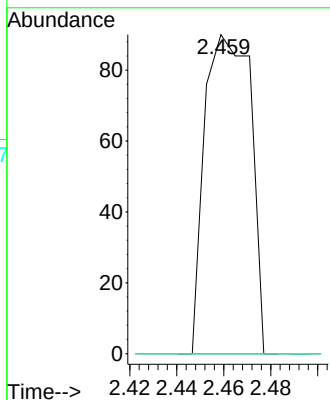
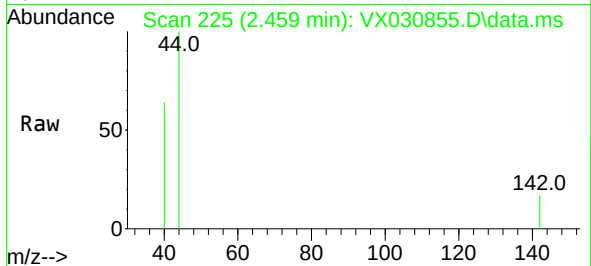




#10
Methyl Iodide
Concen: 4.092 ug/l
RT: 2.459 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

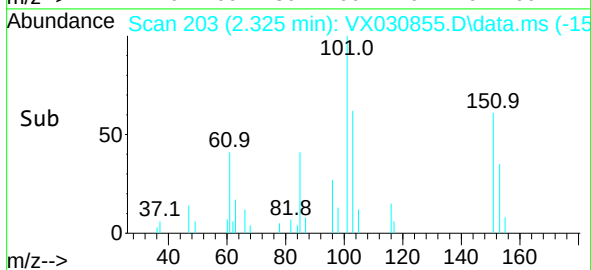
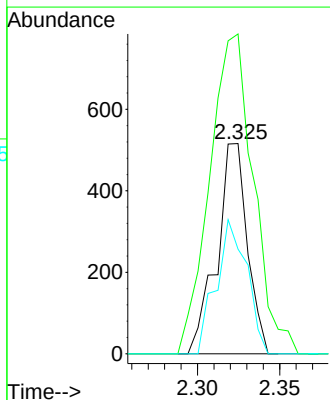
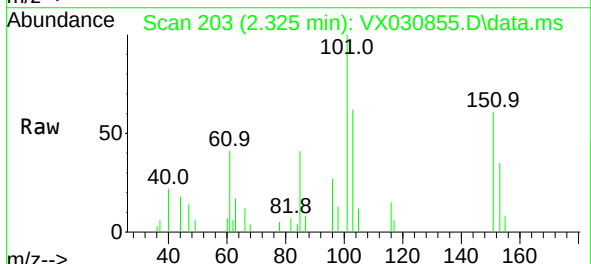
Instrument :
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ClientSampleId :
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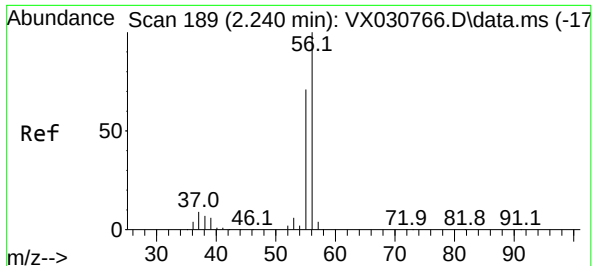
Tgt Ion:142 Resp: 122
Ion Ratio Lower Upper
142 100
127 0.0 30.2 45.2#
141 0.0 11.3 16.9#



#12
1,1-Dichloroethene
Concen: 0.332 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.006 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Tgt Ion: 96 Resp: 668
Ion Ratio Lower Upper
96 100
61 152.1 117.4 176.0
98 49.8 52.2 78.4#

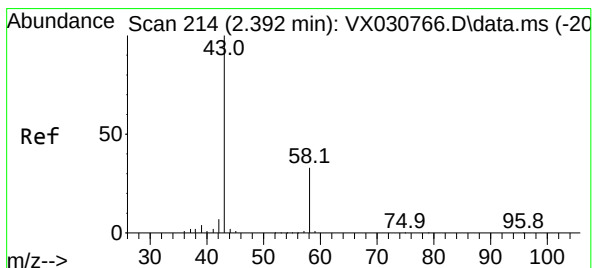
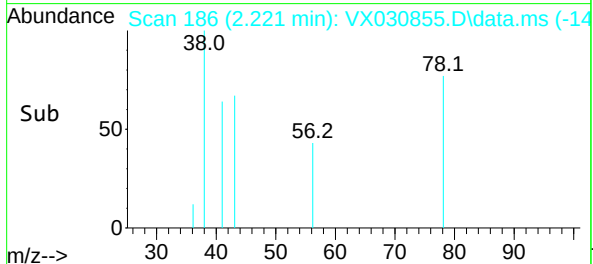
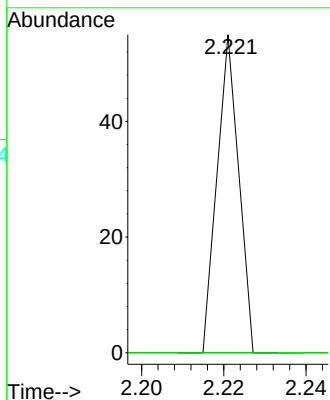
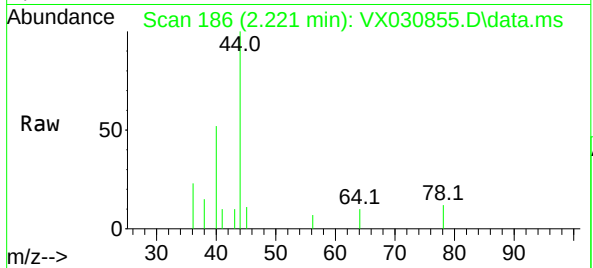




#13
Acrolein
Concen: 10.091 ug/l
RT: 2.221 min Scan# 11
Delta R.T. -0.019 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

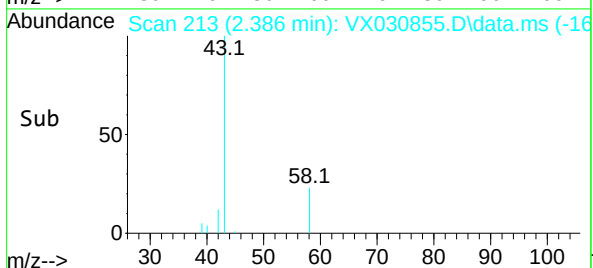
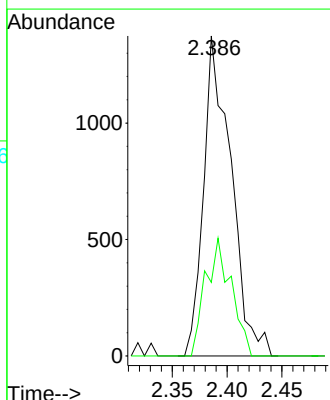
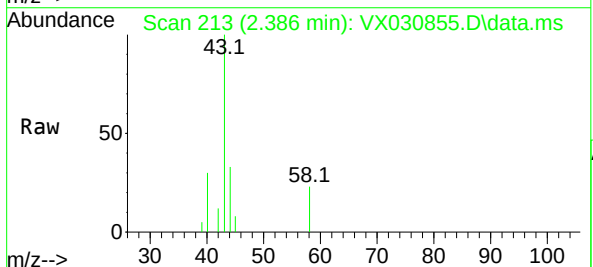
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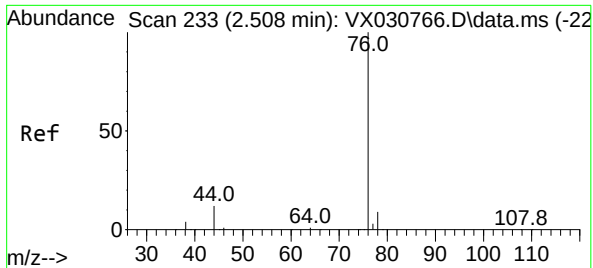
Tgt Ion: 56 Resp: 20
Ion Ratio Lower Upper
56 100
55 0.0 56.6 84.8#



#16
Acetone
Concen: 1.985 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Tgt Ion: 43 Resp: 2395
Ion Ratio Lower Upper
43 100
58 23.0 27.7 41.5#

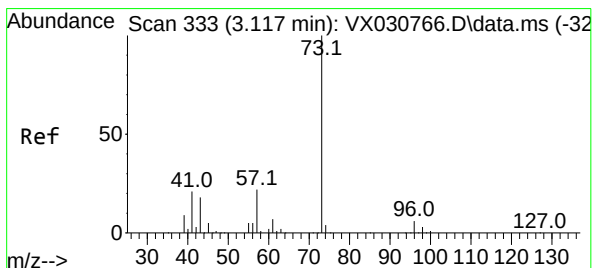
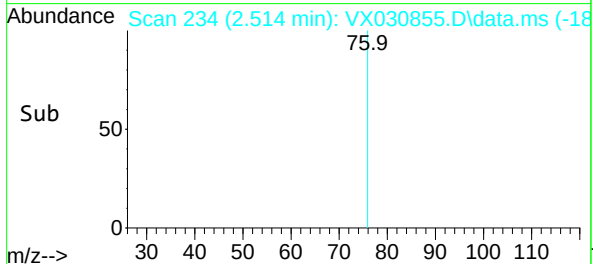
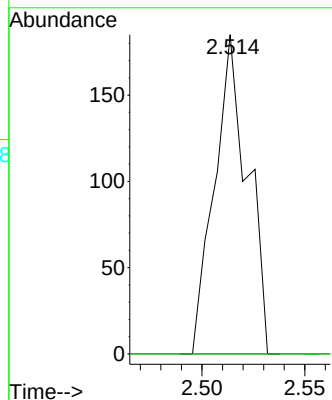
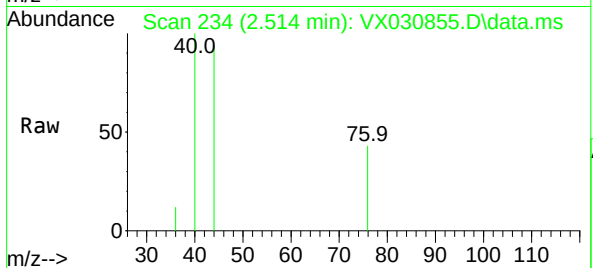




#17
Carbon Disulfide
Concen: Below Cal
RT: 2.514 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

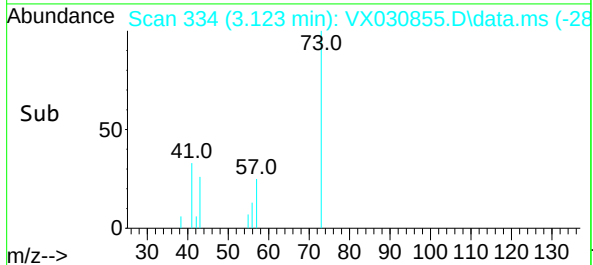
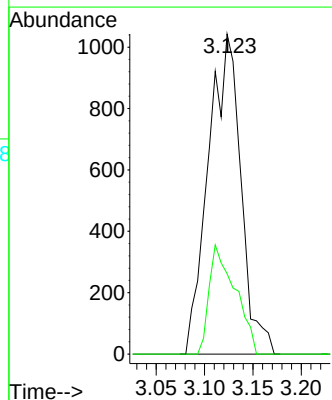
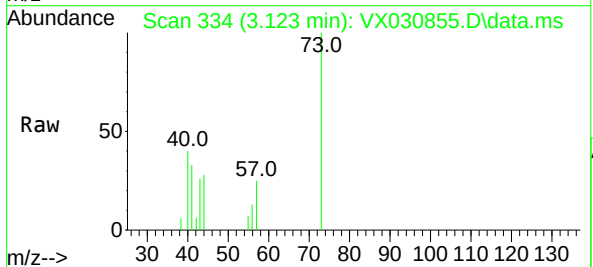
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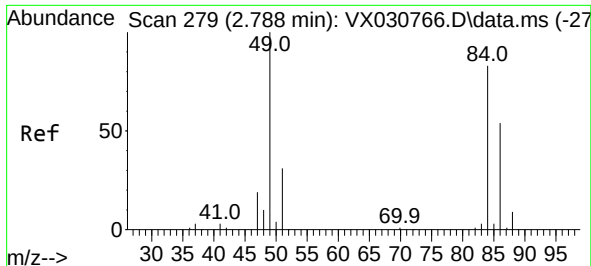
Tgt Ion: 76 Resp: 206
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.6#



#19
Methyl tert-butyl Ether
Concen: 0.350 ug/l
RT: 3.123 min Scan# 334
Delta R.T. 0.006 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

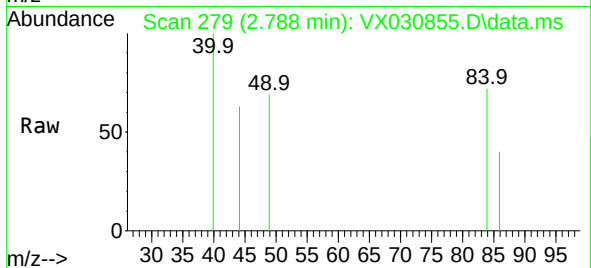
Tgt Ion: 73 Resp: 2436
Ion Ratio Lower Upper
73 100
57 25.1 19.0 28.6



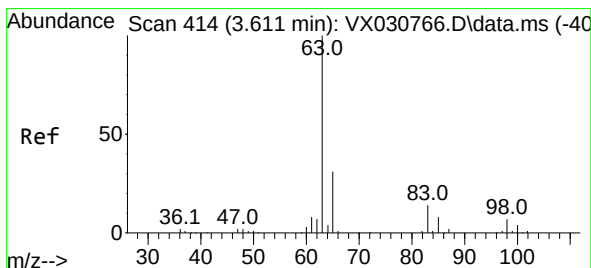
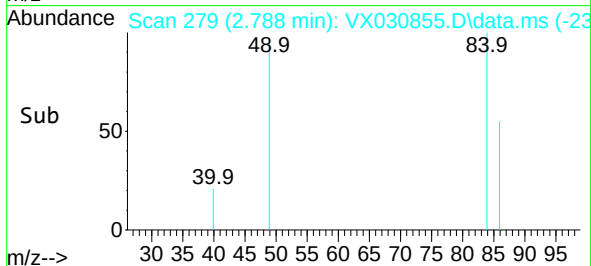
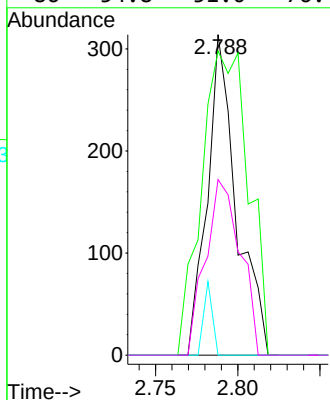


#20
Methylene Chloride
Concen: Below Cal
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20220819

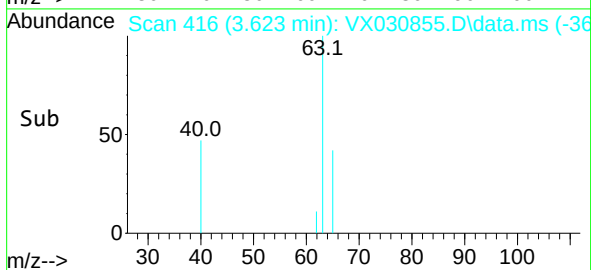
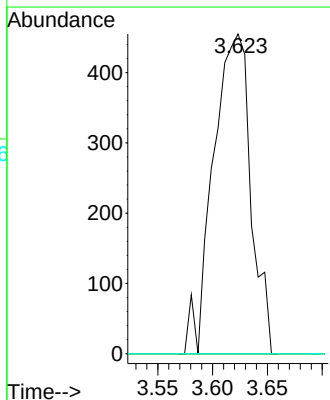
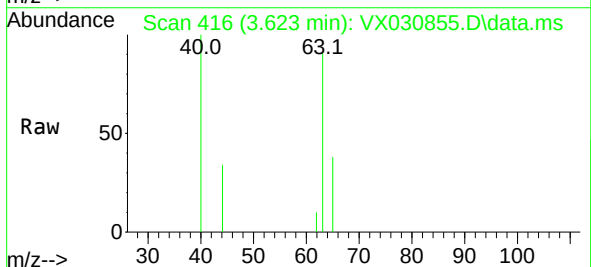


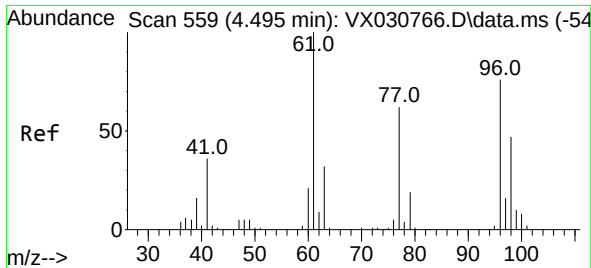
Tgt Ion:	84	Resp:	386
Ion	Ratio	Lower	Upper
84	100		
49	94.9	93.8	140.6
51	0.0	29.4	44.0#
86	54.8	51.0	76.4



#24
1,1-Dichloroethane
Concen: 0.256 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.012 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Tgt Ion:	63	Resp:	1086
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.5	10.5#
100	0.0	2.3	6.9#





#27

cis-1,2-Dichloroethene

Concen: 0.918 ug/l

RT: 4.501 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX030855.D

Acq: 27 Aug 2022 08:13

Instrument :

MSVOA_X

ClientSampleId :

RE132D1-20220819

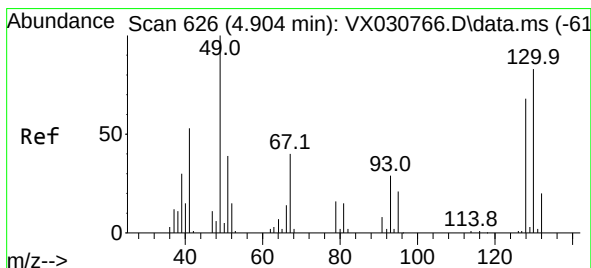
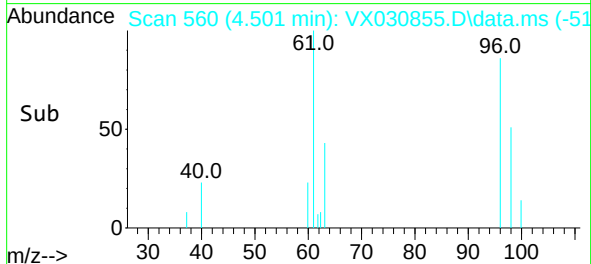
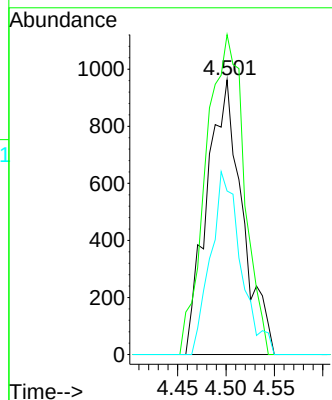
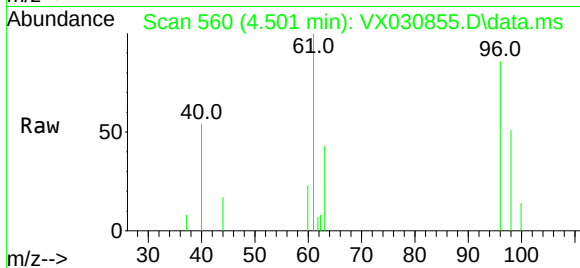
Tgt Ion: 96 Resp: 2452

Ion Ratio Lower Upper

96 100

61 125.6 0.0 270.0

98 56.9 0.0 127.8



#28

Bromochloromethane

Concen: 0.212 ug/l

RT: 5.105 min Scan# 659

Delta R.T. 0.201 min

Lab File: VX030855.D

Acq: 27 Aug 2022 08:13

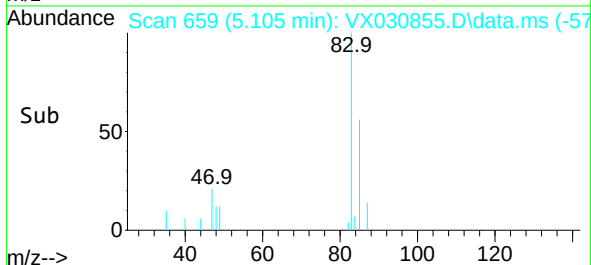
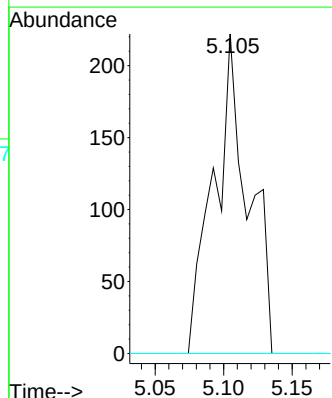
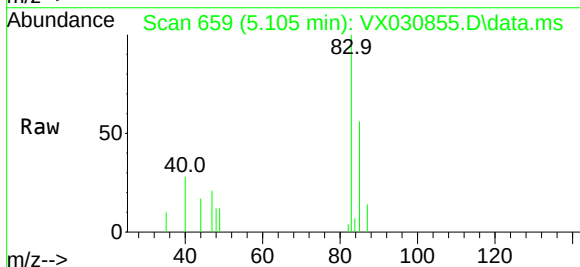
Tgt Ion: 49 Resp: 387

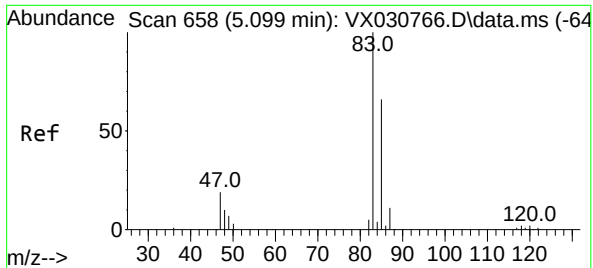
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.4

130 0.0 62.8 94.2#





#30

Chloroform

Concen: 1.138 ug/l

RT: 5.105 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX030855.D

Acq: 27 Aug 2022 08:13

Instrument :

MSVOA_X

ClientSampleId :

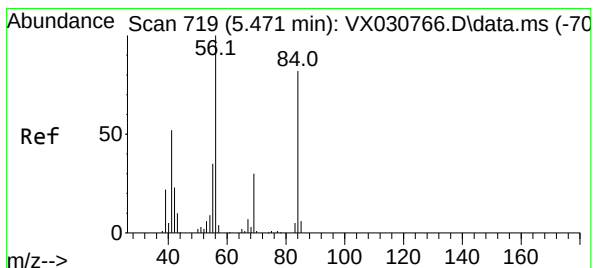
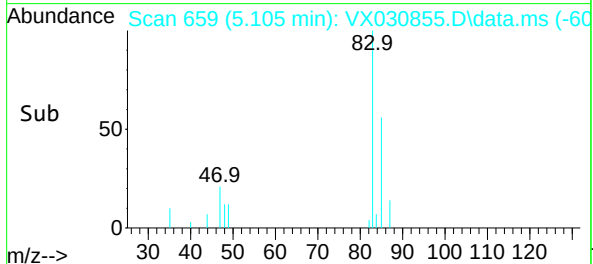
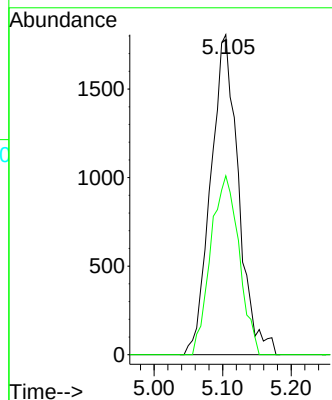
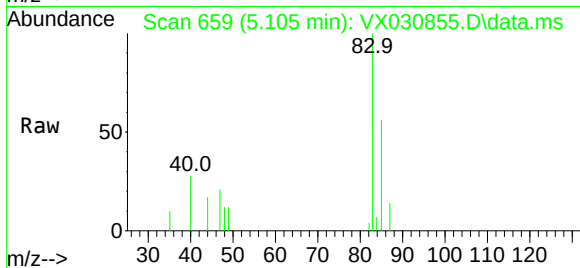
RE132D1-20220819

Tgt Ion: 83 Resp: 5075

Ion Ratio Lower Upper

83 100

85 55.9 51.5 77.3



#31

Cyclohexane

Concen: 1.397 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.085 min

Lab File: VX030855.D

Acq: 27 Aug 2022 08:13

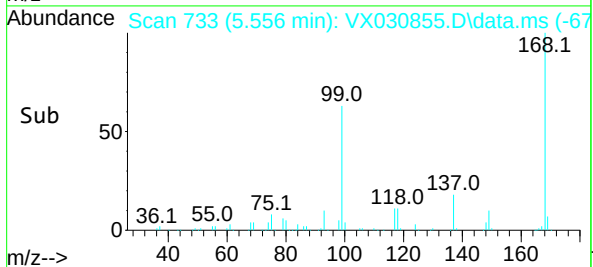
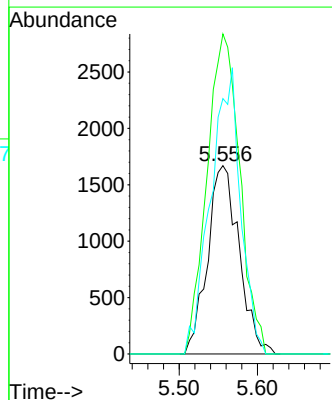
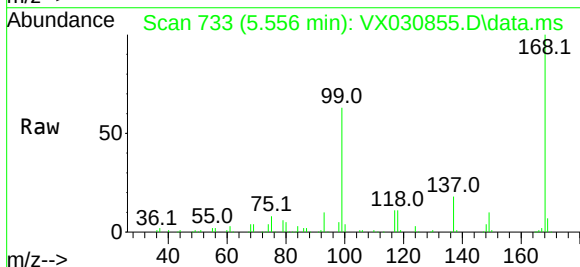
Tgt Ion: 56 Resp: 4663

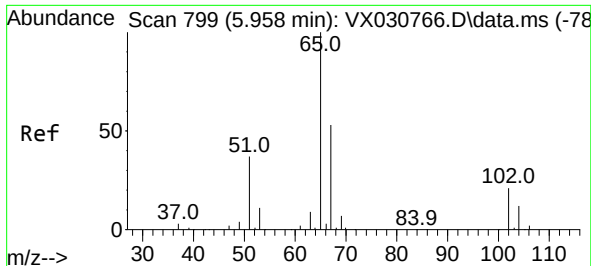
Ion Ratio Lower Upper

56 100

69 169.9 25.4 38.0#

84 135.6 68.9 103.3#





#33

1,2-Dichloroethane-d4

Concen: 55.510 ug/l

RT: 5.964 min Scan# 80

Delta R.T. 0.006 min

Lab File: VX030855.D

Acq: 27 Aug 2022 08:13

Instrument :

MSVOA_X

ClientSampleId :

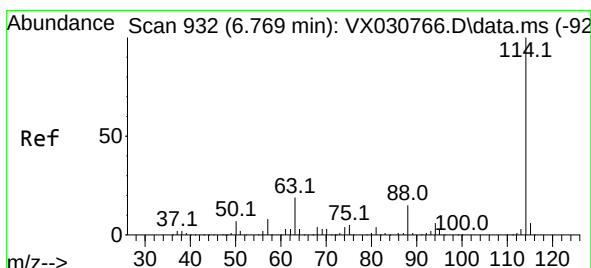
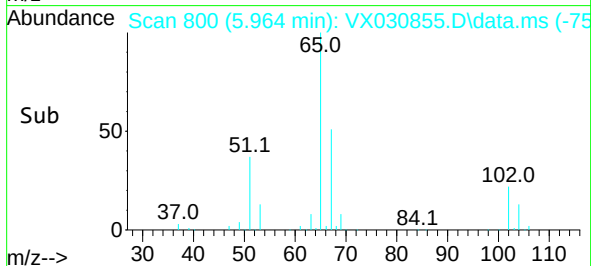
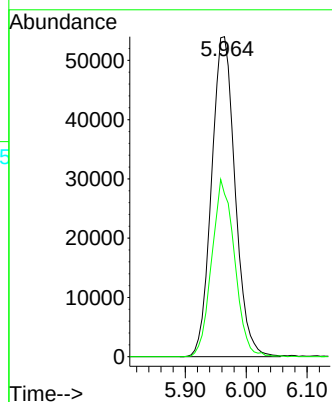
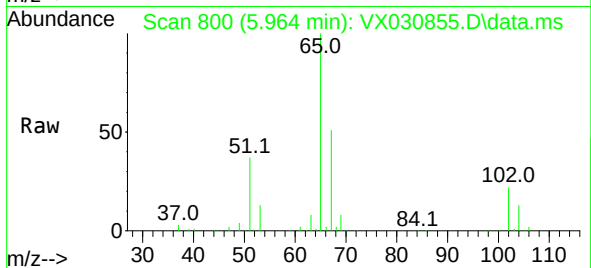
RE132D1-20220819

Tgt Ion: 65 Resp: 144927

Ion Ratio Lower Upper

65 100

67 53.7 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.000 min

Lab File: VX030855.D

Acq: 27 Aug 2022 08:13

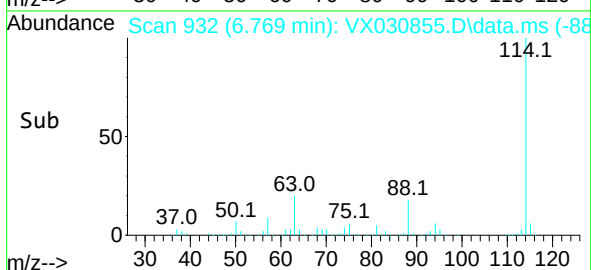
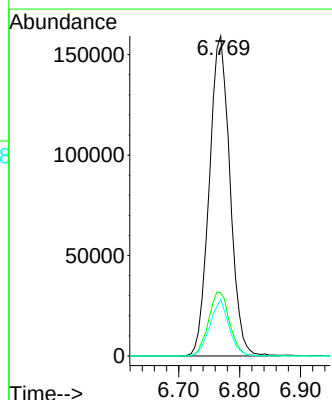
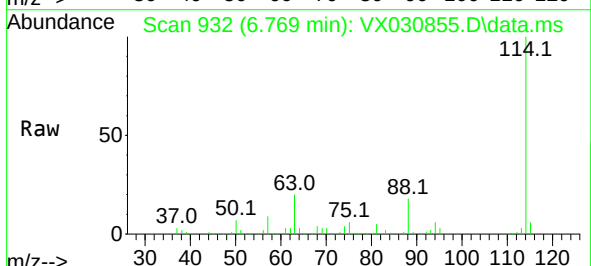
Tgt Ion: 114 Resp: 375436

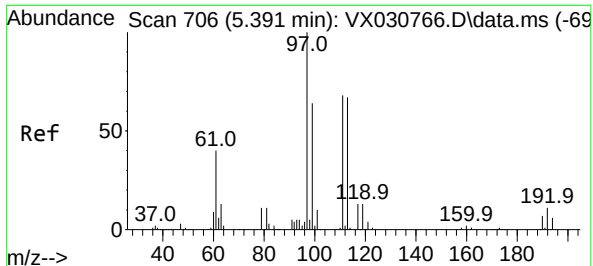
Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.4

88 17.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 51.522 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

Lab File: VX030855.D

Acq: 27 Aug 2022 08:13

Instrument :

MSVOA_X

ClientSampleId :

RE132D1-20220819

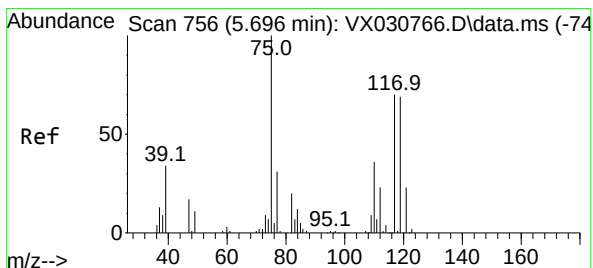
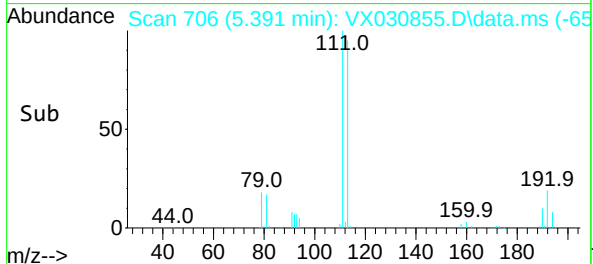
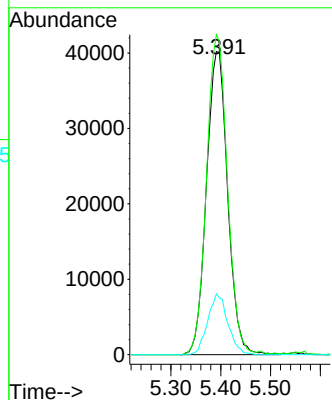
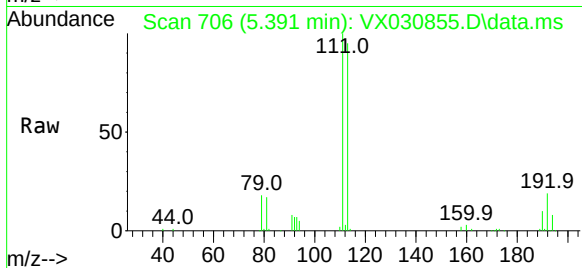
Tgt Ion:113 Resp: 118879

Ion Ratio Lower Upper

113 100

111 103.9 83.2 124.8

192 19.0 14.8 22.2



#36

1,1-Dichloropropene

Concen: 5.567 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX030855.D

Acq: 27 Aug 2022 08:13

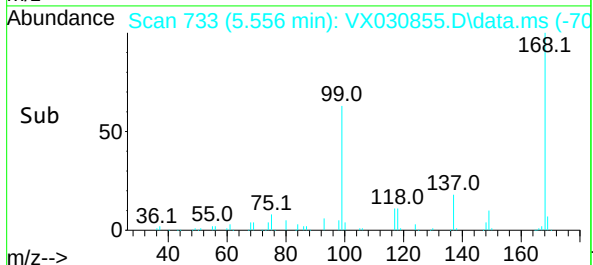
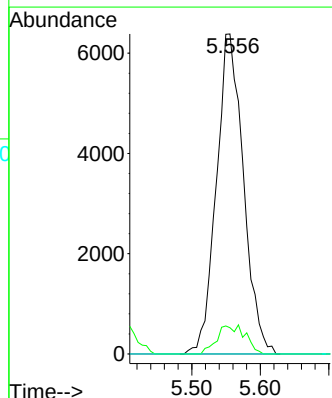
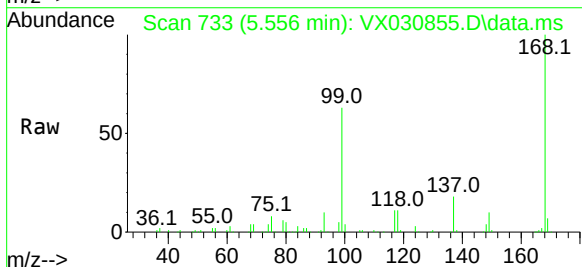
Tgt Ion: 75 Resp: 17493

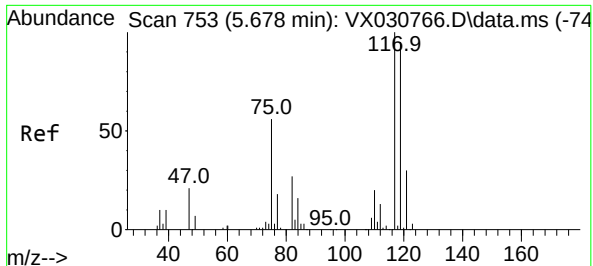
Ion Ratio Lower Upper

75 100

110 9.4 19.3 57.9#

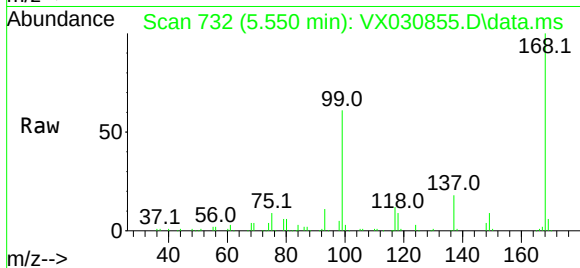
77 0.0 24.4 36.6#



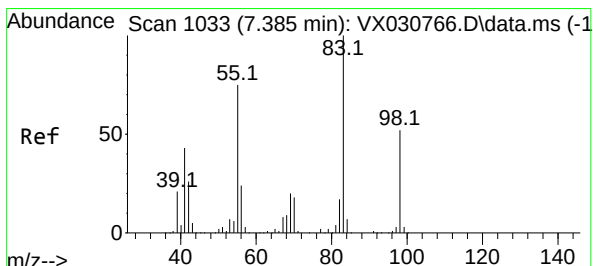
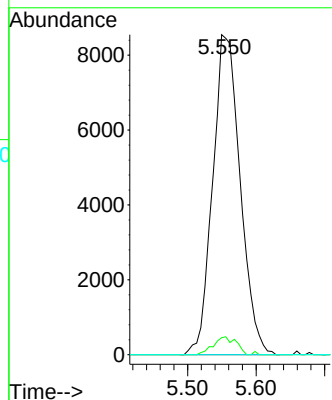
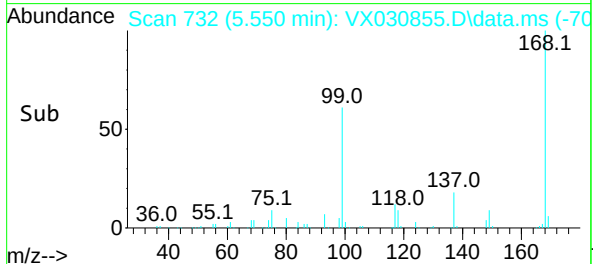


#38
Carbon Tetrachloride
Concen: 7.197 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20220819

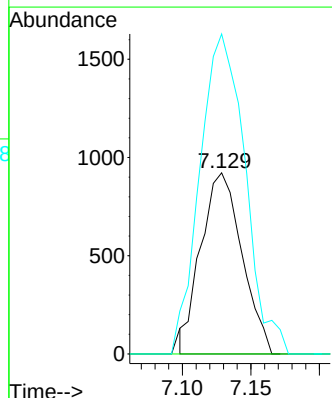
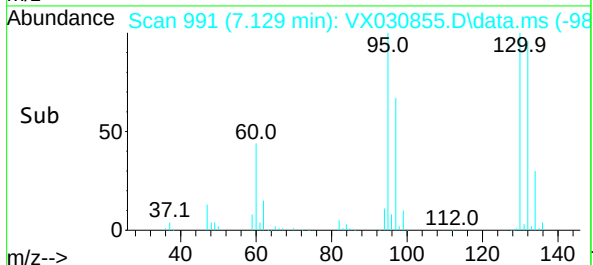
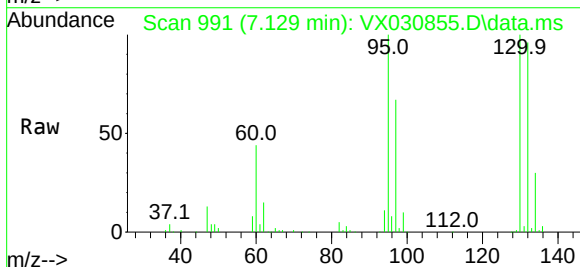


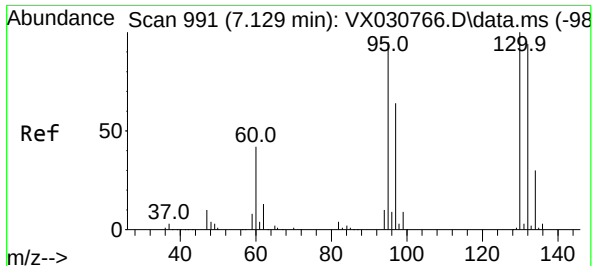
Tgt Ion:117 Resp: 23853
Ion Ratio Lower Upper
117 100
119 5.3 74.1 111.1#
121 0.0 25.8 38.8#



#39
Methylcyclohexane
Concen: 0.508 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.256 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Tgt Ion: 83 Resp: 1912
Ion Ratio Lower Upper
83 100
55 0.0 57.7 86.5#
98 152.9 36.5 54.7#

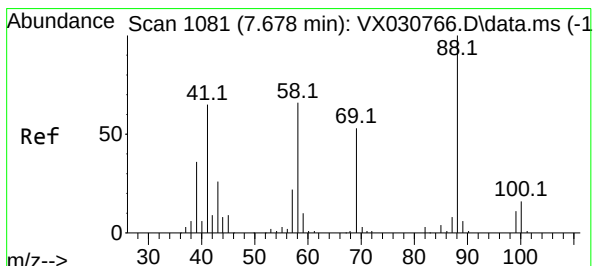
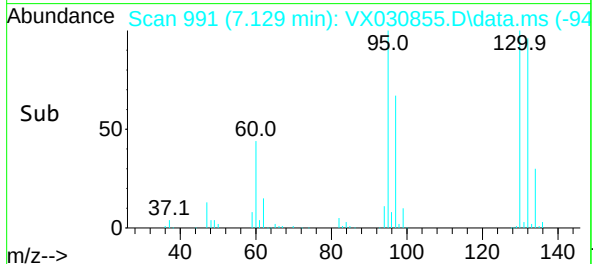
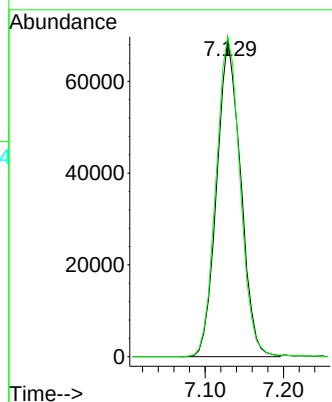
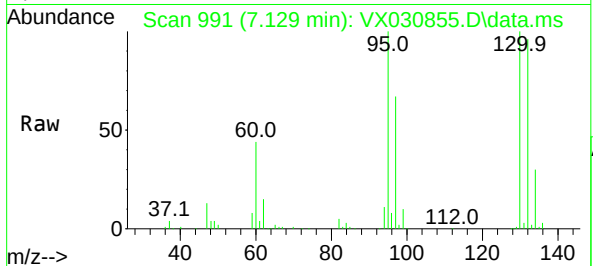




#44
Trichloroethene
Concen: 53.947 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.000 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

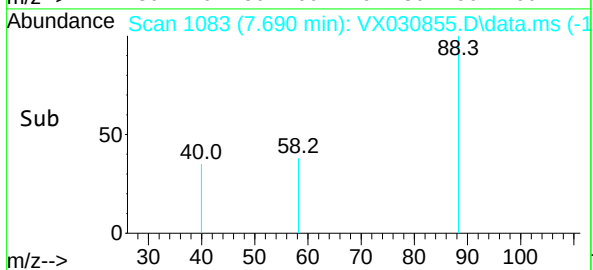
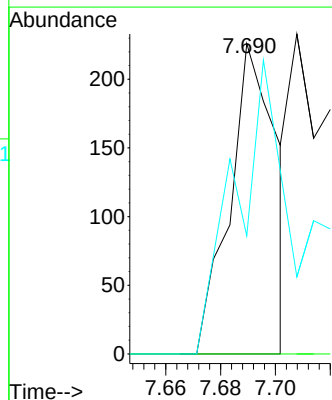
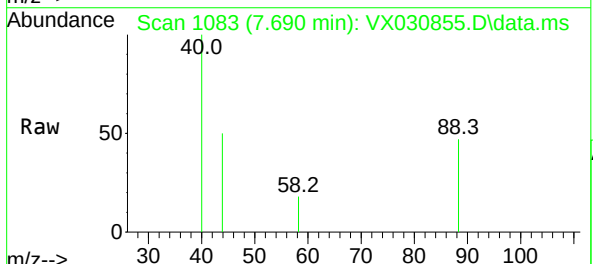
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20220819

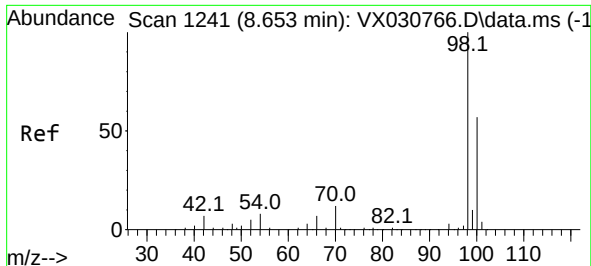
Tgt Ion:130 Resp: 146510
Ion Ratio Lower Upper
130 100
95 100.3 0.0 194.8



#49
1,4-Dioxane
Concen: 3.842 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.012 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Tgt Ion: 88 Resp: 265
Ion Ratio Lower Upper
88 100
43 0.0 23.8 35.8#
58 141.5 53.8 80.6#

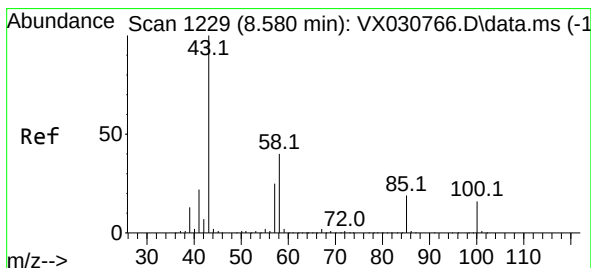
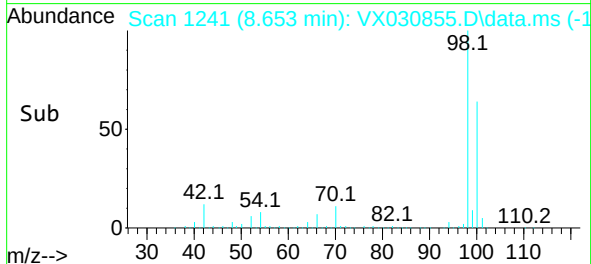
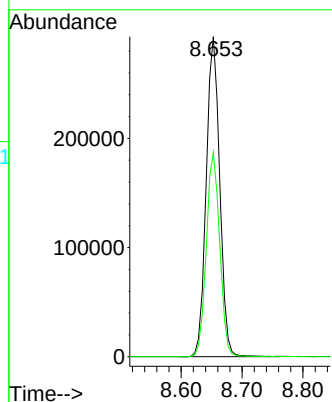
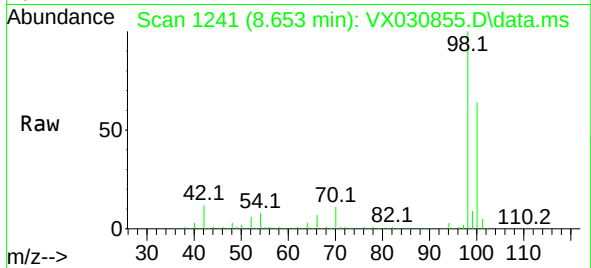




#50
Toluene-d8
Concen: 56.122 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

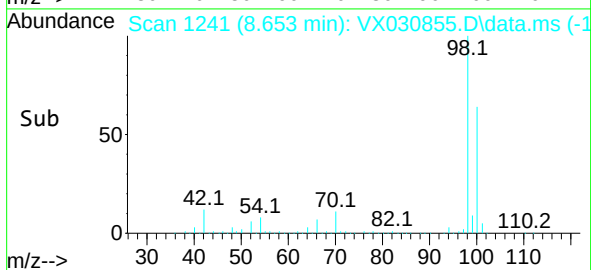
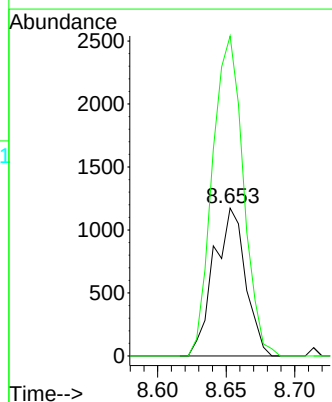
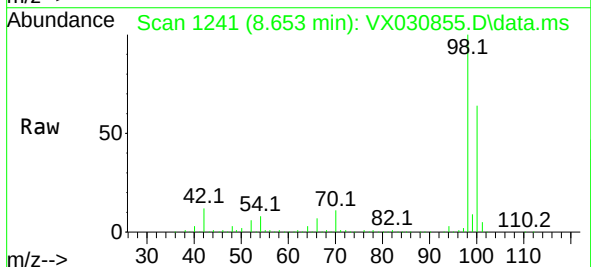
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20220819

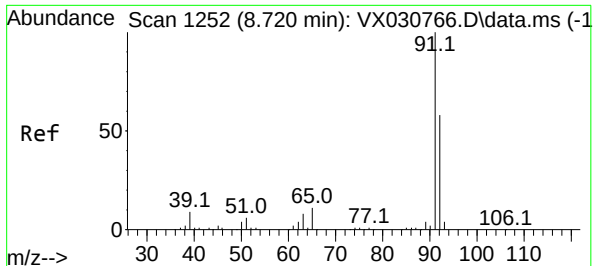
Tgt Ion: 98 Resp: 451242
Ion Ratio Lower Upper
98 100
100 63.4 52.3 78.5



#51
4-Methyl-2-Pentanone
Concen: 0.499 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.073 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Tgt Ion: 43 Resp: 1886
Ion Ratio Lower Upper
43 100
58 210.9 31.4 47.2#

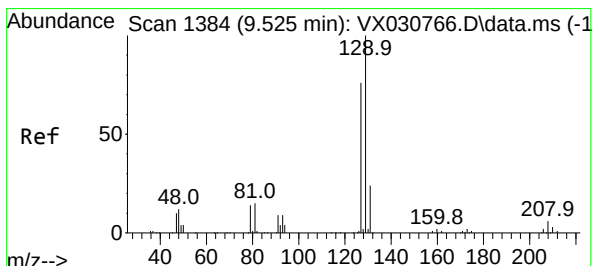
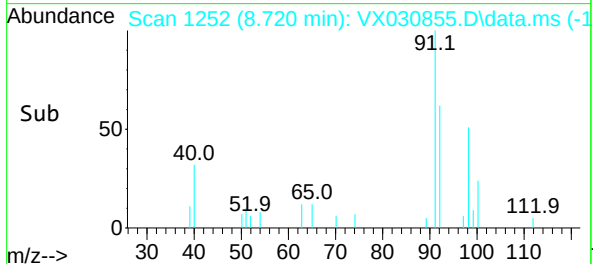
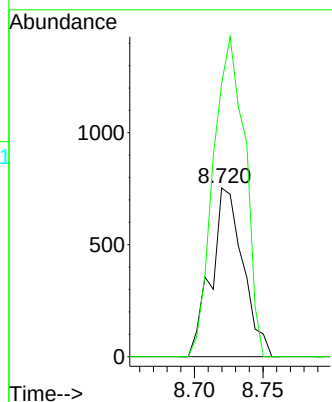
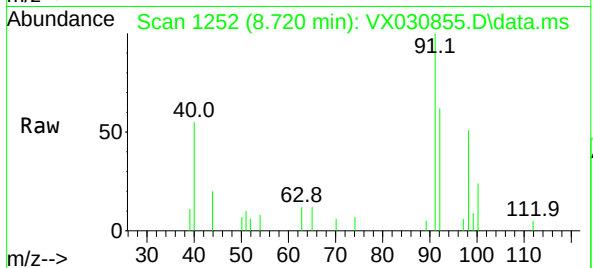




#52
Toluene
Concen: 0.207 ug/l
RT: 8.720 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

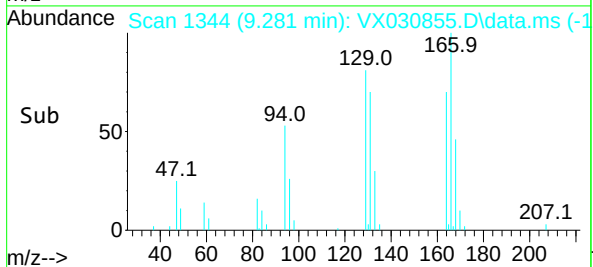
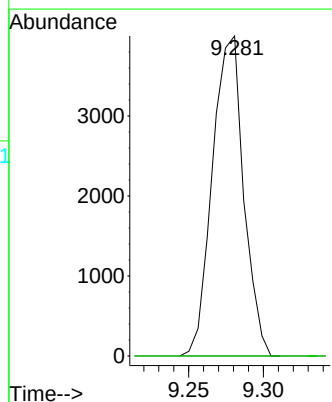
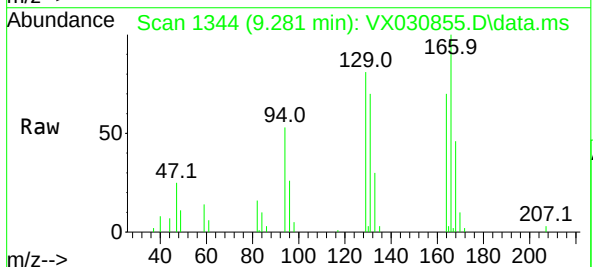
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20220819

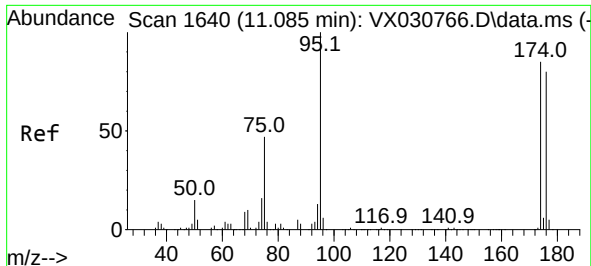
Tgt Ion: 92 Resp: 1215
Ion Ratio Lower Upper
92 100
91 189.5 139.2 208.8



#60
Dibromochloromethane
Concen: 2.140 ug/l
RT: 9.281 min Scan# 1344
Delta R.T. -0.244 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Tgt Ion: 129 Resp: 5818
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#

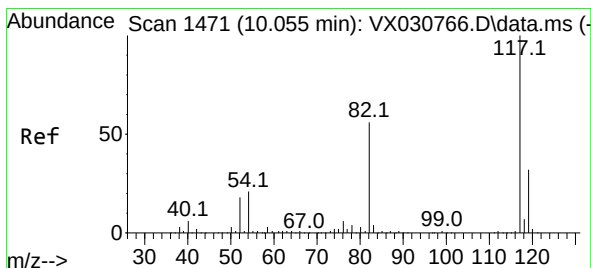
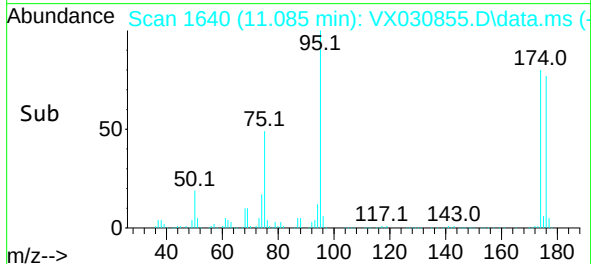
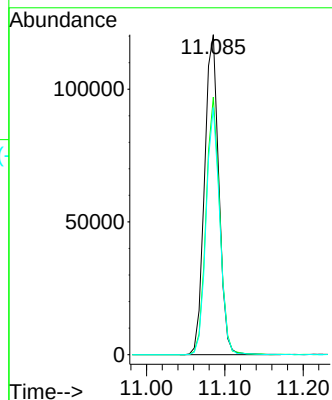
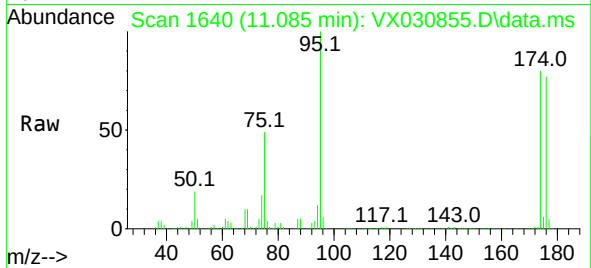




#62
4-Bromofluorobenzene
Concen: 50.882 ug/l
RT: 11.085 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

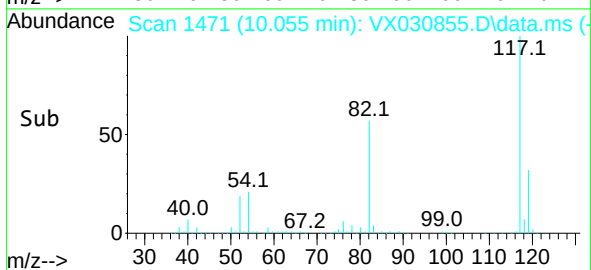
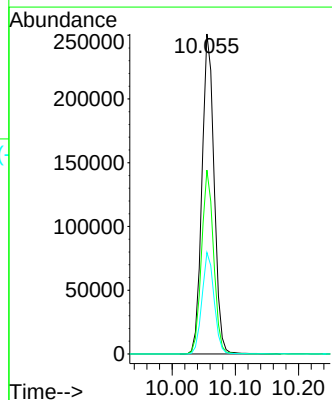
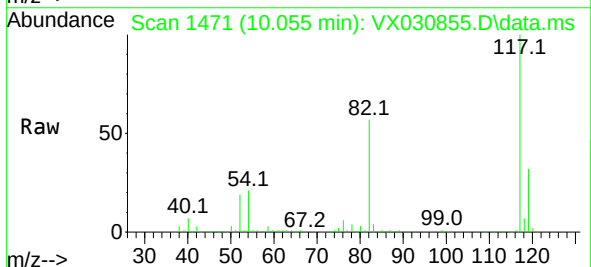
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20220819

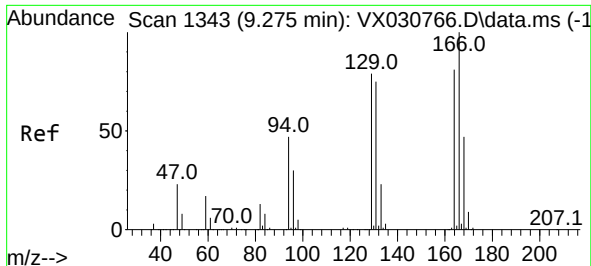
Tgt Ion: 95 Resp: 152311
Ion Ratio Lower Upper
95 100
174 77.3 0.0 149.0
176 73.8 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Tgt Ion: 117 Resp: 336763
Ion Ratio Lower Upper
117 100
82 57.4 42.7 64.1
119 31.7 25.4 38.2

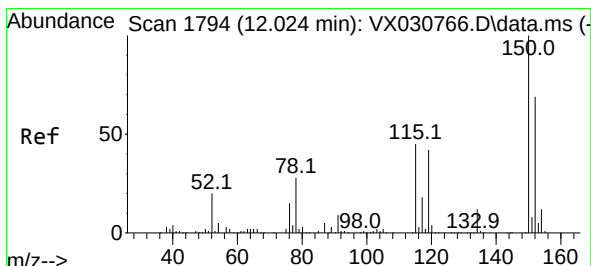
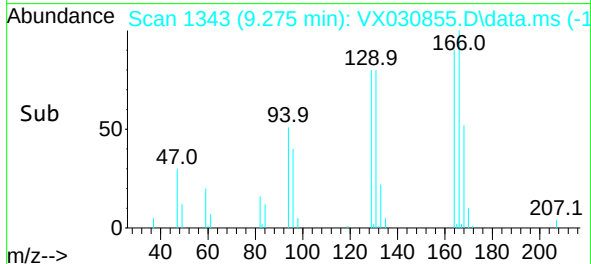
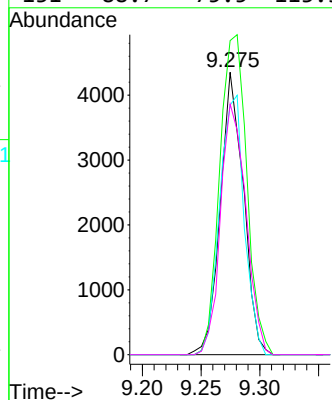
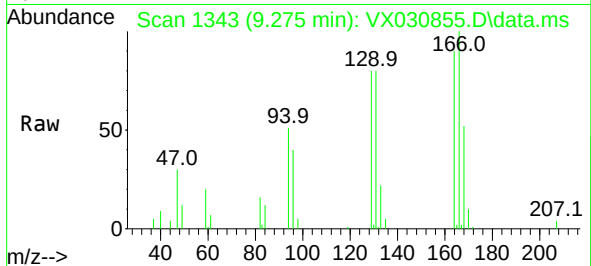




#64
Tetrachloroethene
Concen: 2.255 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

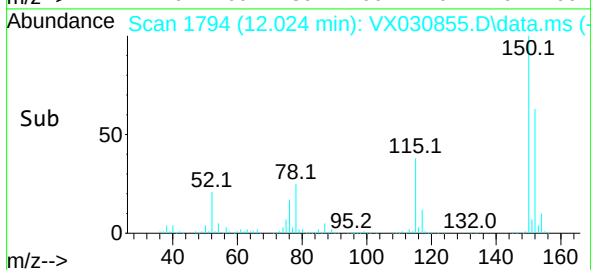
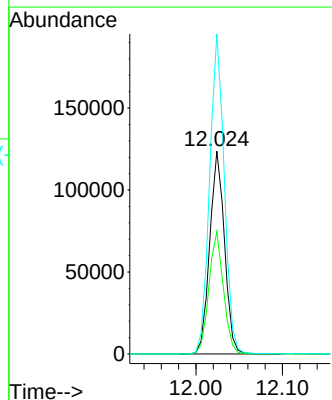
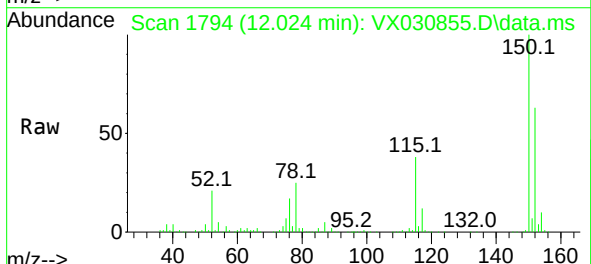
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20220819

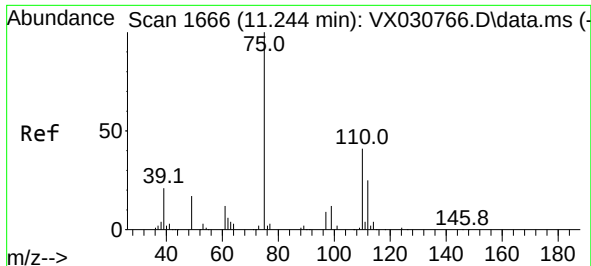
Tgt Ion:164	Resp:	5981
Ion	Ratio	Lower Upper
164	100	
166	111.2	98.2 147.4
129	88.4	80.8 121.2
131	88.7	75.5 113.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Tgt Ion:152	Resp:	146672
Ion	Ratio	Lower Upper
152	100	
115	59.3	40.5 121.5
150	156.4	0.0 347.0

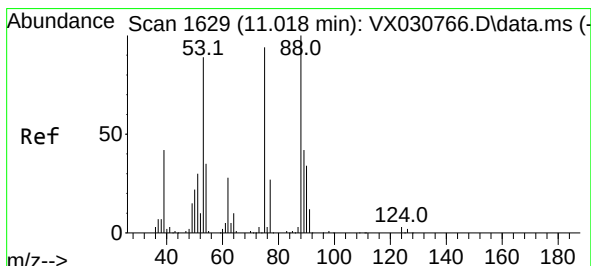
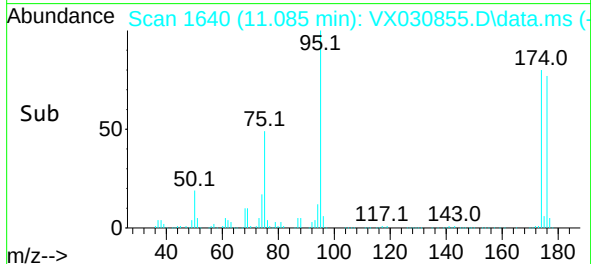
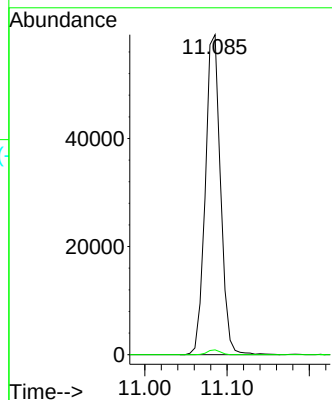
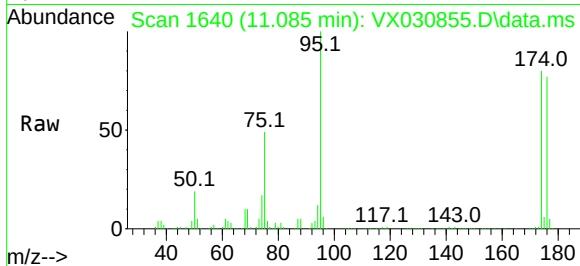




#76
1,2,3-Trichloropropane
Concen: 23.619 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. -0.159 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20220819

Tgt Ion: 75 Resp: 75898
Ion Ratio Lower Upper
75 100
77 1.3 19.8 59.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.206 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.067 min
Lab File: VX030855.D
Acq: 27 Aug 2022 08:13

Tgt Ion: 75 Resp: 75898
Ion Ratio Lower Upper
75 100
53 0.1 74.2 111.4#
89 0.0 34.8 52.2#

