

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121120\
 Data File : VX019892.D
 Acq On : 11 Dec 2020 22:02
 Operator : JC/MD
 Sample : L4996-17
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D1-20201207

Quant Time: Dec 12 00:07:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	308848	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	520005	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	483021	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	207716	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	198719	48.96	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	97.92%		
35) Dibromofluoromethane	5.46	113	159668	47.51	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.02%		
50) Toluene-d8	8.70	98	631267	49.20	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	98.40%		
62) 4-Bromofluorobenzene	11.12	95	224852	46.04	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	92.08%		

Target Compounds

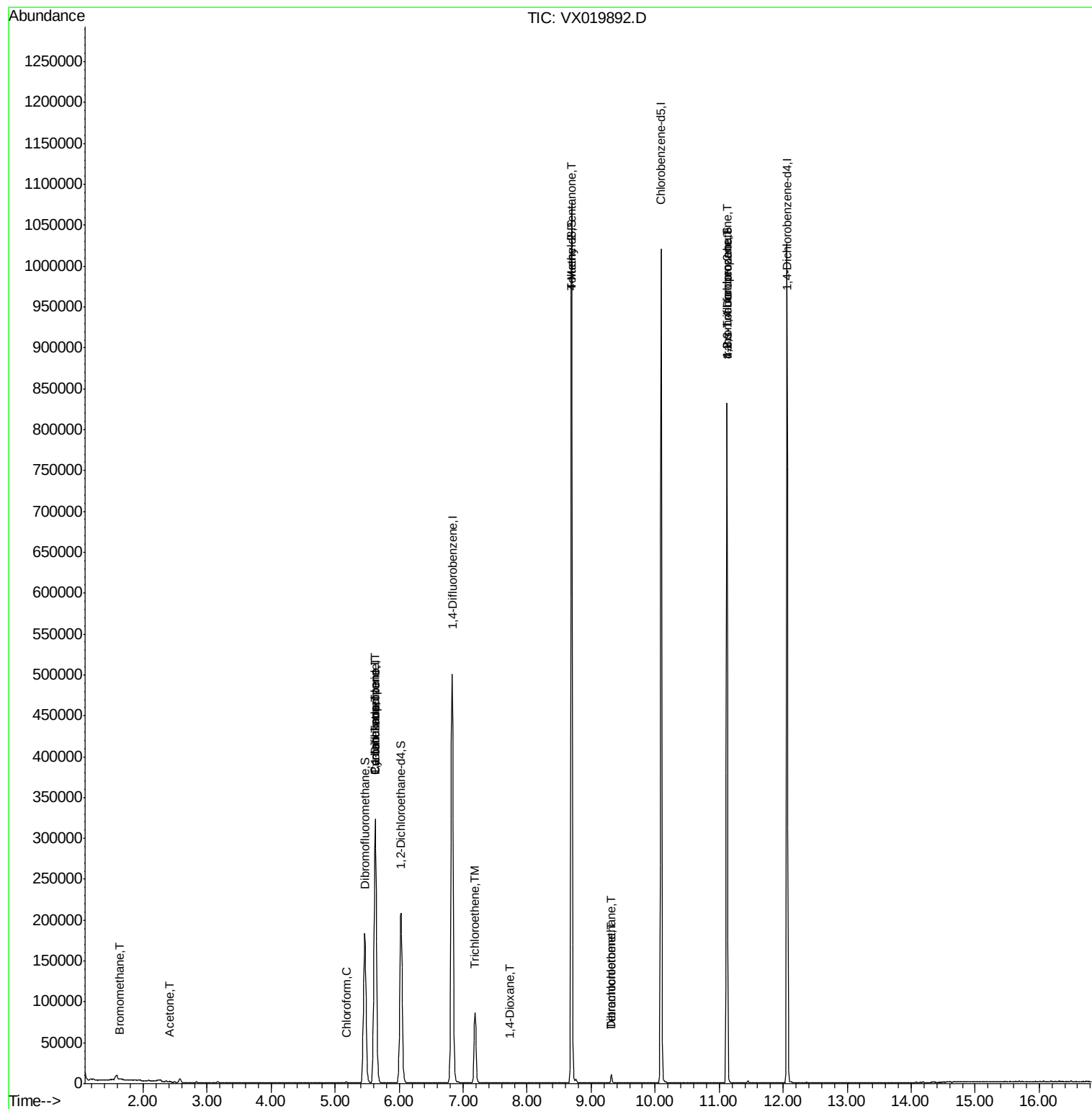
					Qvalue
5) Bromomethane	1.64	94	497	0.427 ug/l	95
11) Tert butyl alcohol	3.00	59	515	Below Cal #	73
16) Acetone	2.42	43	1363	0.893 ug/l	96
20) Methylene Chloride	2.83	84	353	Below Cal	92
30) Chloroform	5.17	83	1554	0.259 ug/l	98
31) Cyclohexane	5.63	56	5807	1.150 ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23334	4.966 ug/l #	48
38) Carbon Tetrachloride	5.63	117	30670	6.665 ug/l #	16
44) Trichloroethene	7.18	130	34303	9.108 ug/l	98
49) 1,4-Dioxane	7.73	88	199	2.165 ug/l #	62
51) 4-Methyl-2-Pentanone	8.69	43	2641	0.561 ug/l #	1
60) Dibromochloromethane	9.32	129	2036	0.554 ug/l #	11
64) Tetrachloroethene	9.32	164	2142	0.661 ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	108440	23.277 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	108440	67.289 ug/l #	12

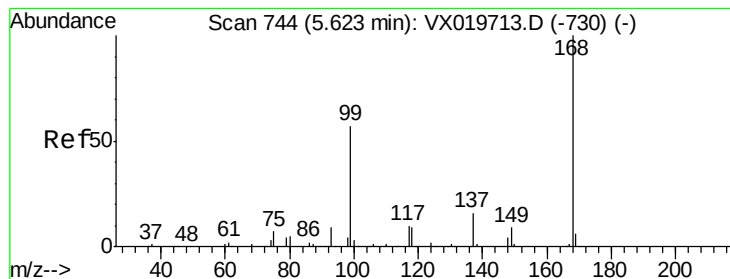
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019892.D

Acq: 11 Dec 2020 22:02

Instrument :

MSVOA_X

ClientSampleId :

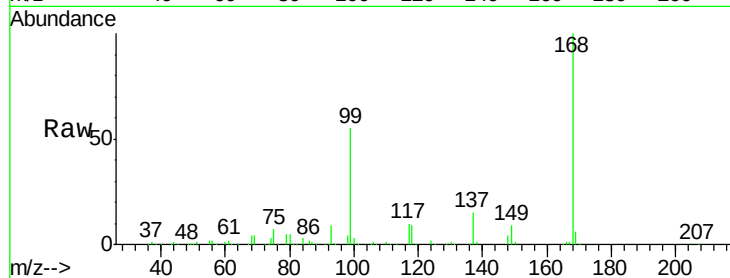
RE134D1-20201207

Tgt Ion:168 Resp: 308848

Ion Ratio Lower Upper

168 100

99 55.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

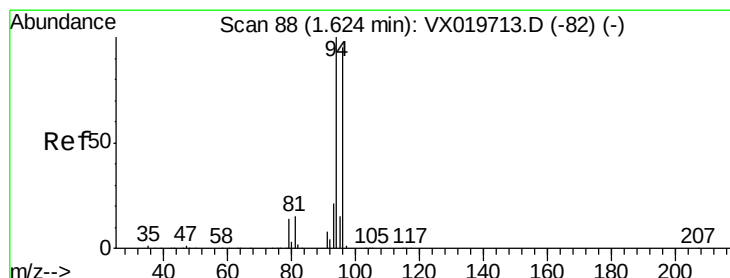
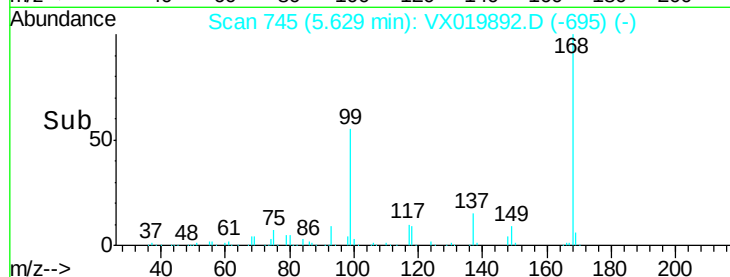
5.63

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.427 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019892.D

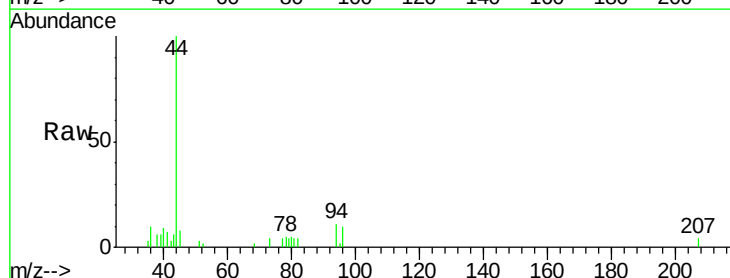
Acq: 11 Dec 2020 22:02

Tgt Ion: 94 Resp: 497

Ion Ratio Lower Upper

94 100

96 90.8 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

250

200

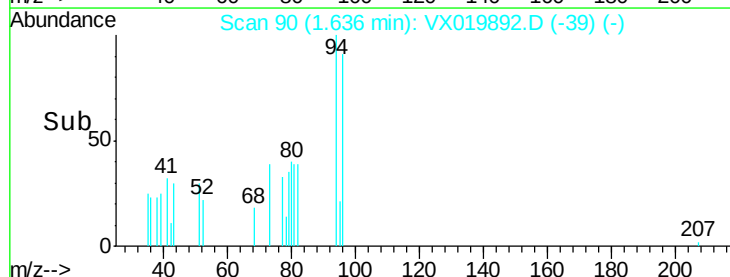
150

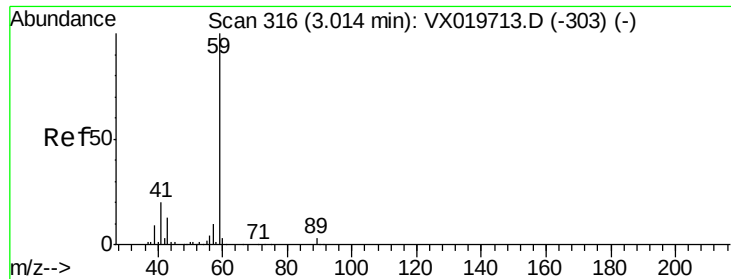
100

50

0

Time-->

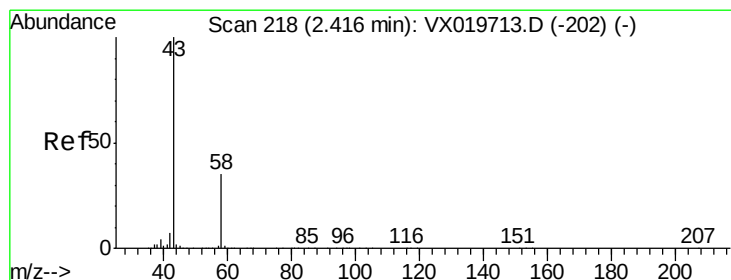
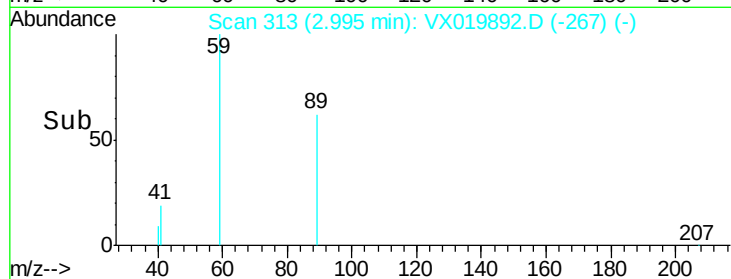
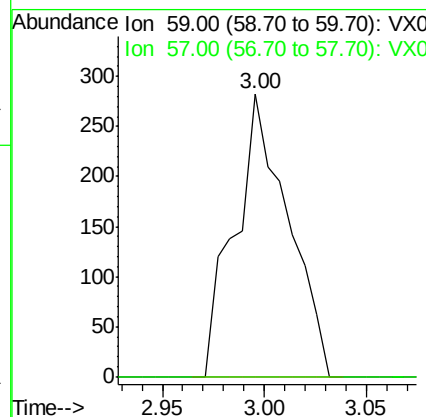
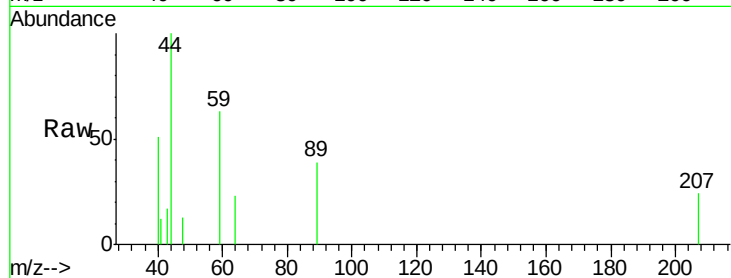




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019892.D
Acq: 11 Dec 2020 22:02

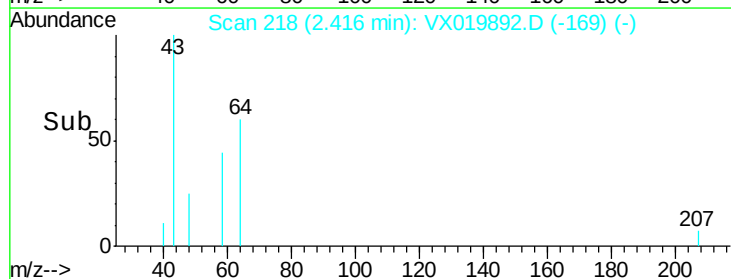
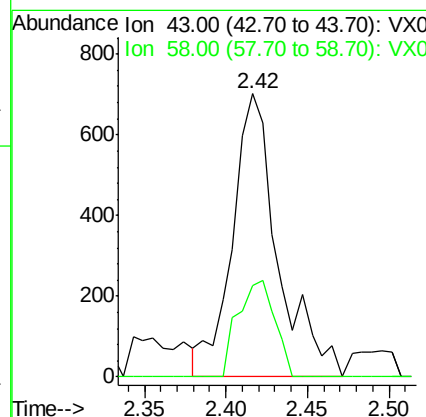
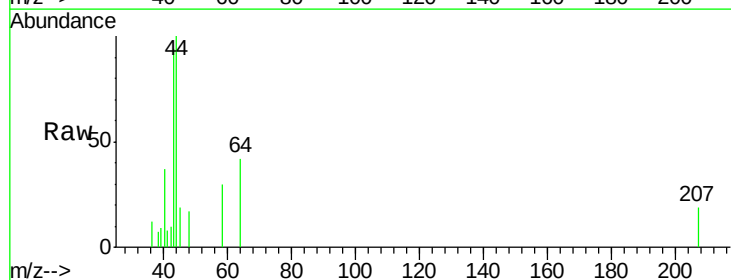
Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20201207

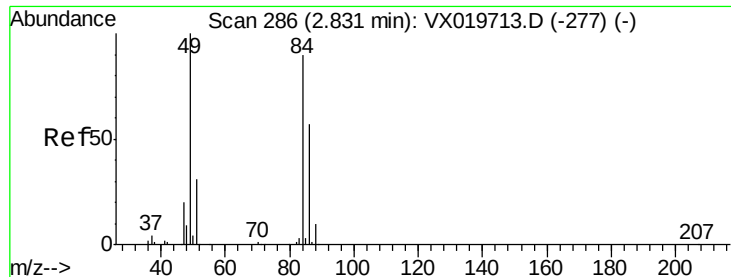
Tgt Ion: 59 Resp: 515
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#16
Acetone
Concen: 0.893 ug/l
RT: 2.42 min Scan# 218
Delta R.T. 0.00 min
Lab File: VX019892.D
Acq: 11 Dec 2020 22:02

Tgt Ion: 43 Resp: 1363
Ion Ratio Lower Upper
43 100
58 32.5 27.8 41.8



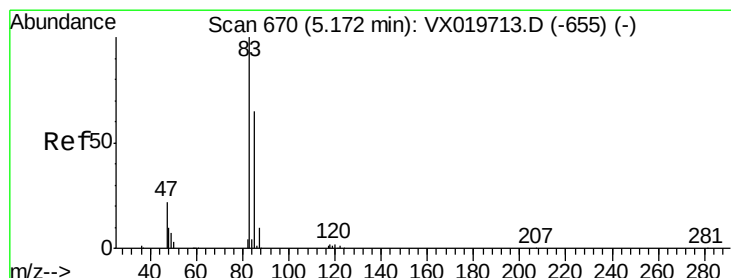
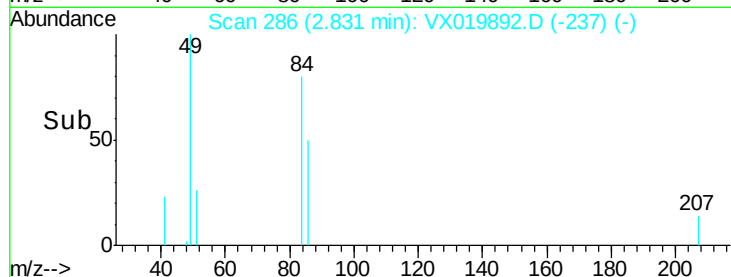
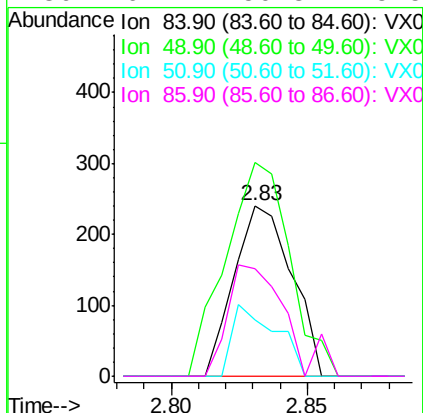
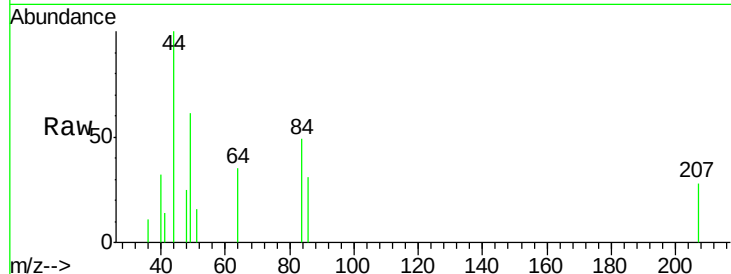


#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019892.D
Acq: 11 Dec 2020 22:02

Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20201207

Tgt Ion: 84 Resp: 353

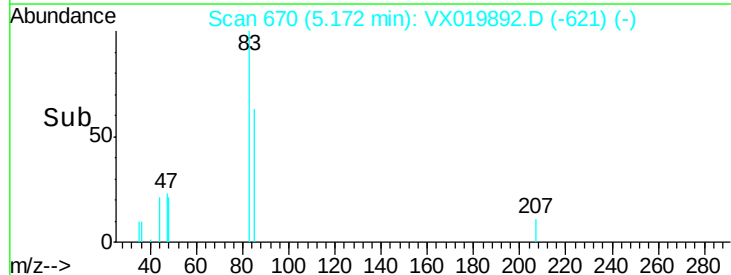
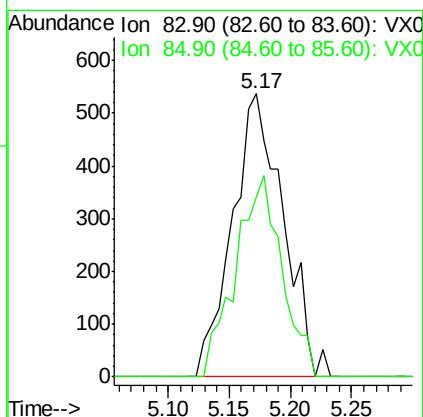
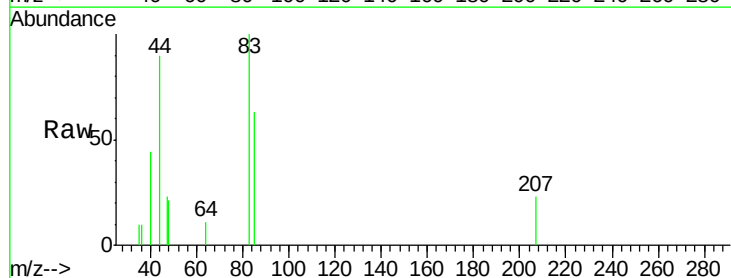
Ion	Ratio	Lower	Upper
84	100		
49	124.9	88.6	132.8
51	32.8	27.0	40.6
86	62.7	50.3	75.5

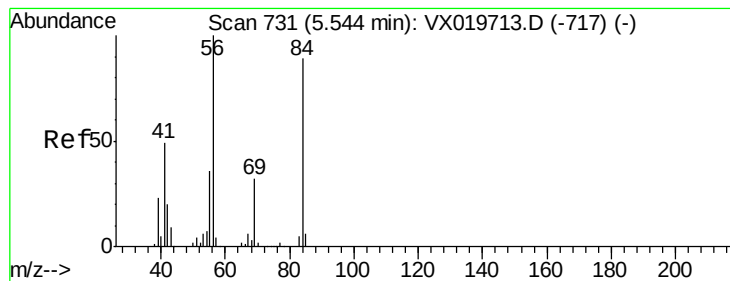


#30
Chloroform
Concen: 0.259 ug/l
RT: 5.17 min Scan# 670
Delta R.T. 0.00 min
Lab File: VX019892.D
Acq: 11 Dec 2020 22:02

Tgt Ion: 83 Resp: 1554

Ion	Ratio	Lower	Upper
83	100		
85	63.3	52.0	78.0





#31

Cyclohexane

Concen: 1.150 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019892.D

Acq: 11 Dec 2020 22:02

Instrument :

MSVOA_X

ClientSampleId :

RE134D1-20201207

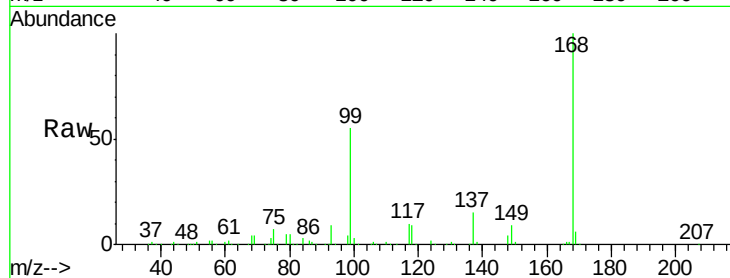
Tgt Ion: 56 Resp: 5807

Ion Ratio Lower Upper

56 100

69 214.3 25.3 37.9#

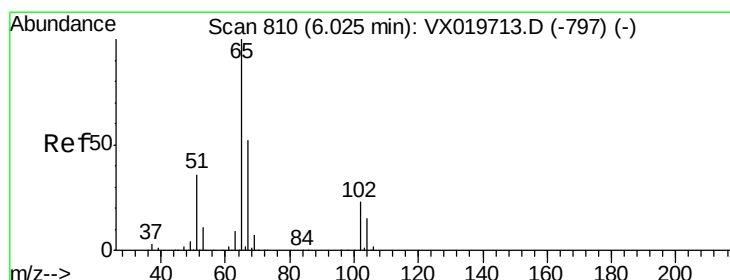
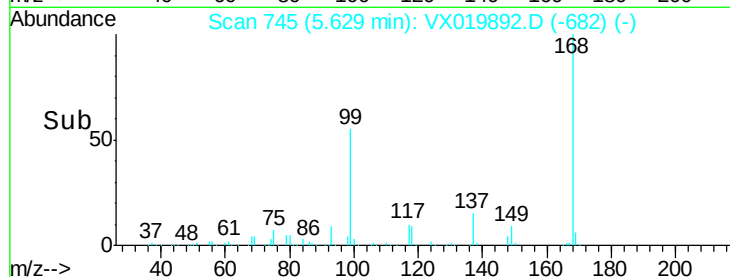
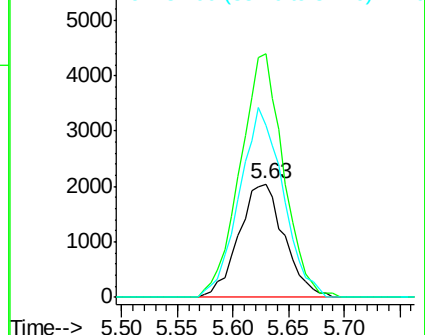
84 151.3 71.4 107.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.956 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019892.D

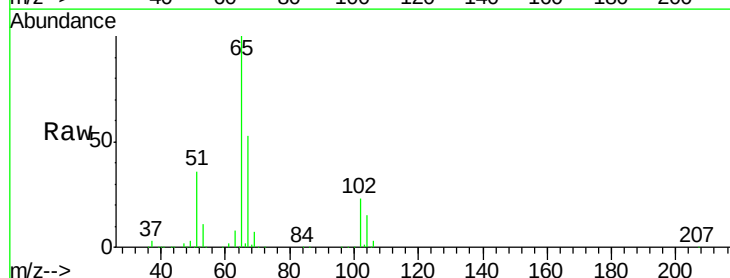
Acq: 11 Dec 2020 22:02

Tgt Ion: 65 Resp: 198719

Ion Ratio Lower Upper

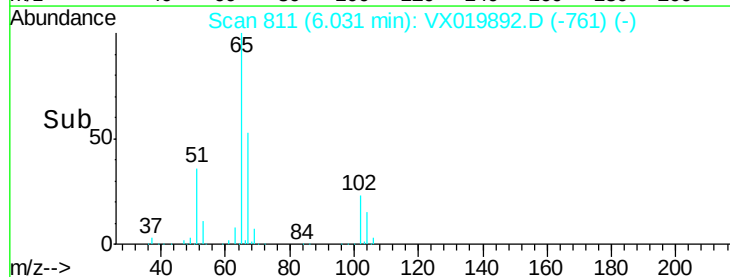
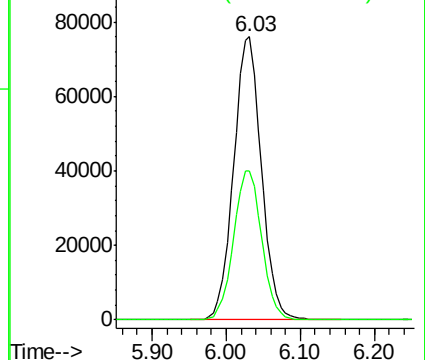
65 100

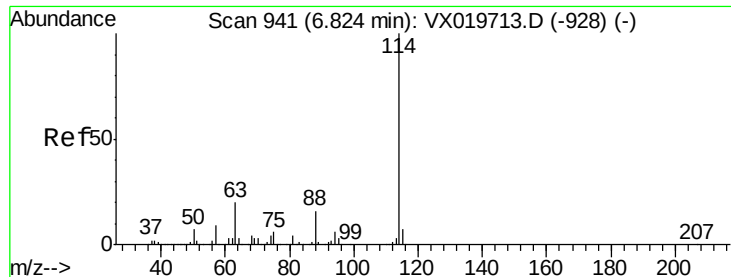
67 53.4 0.0 105.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

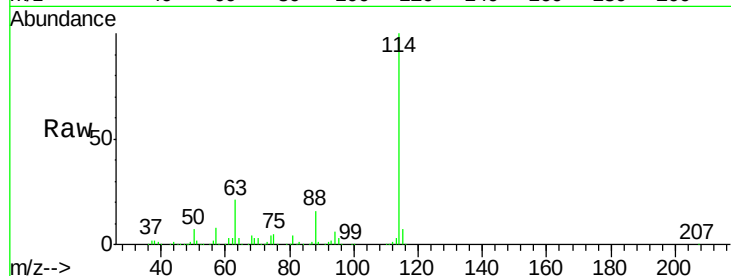




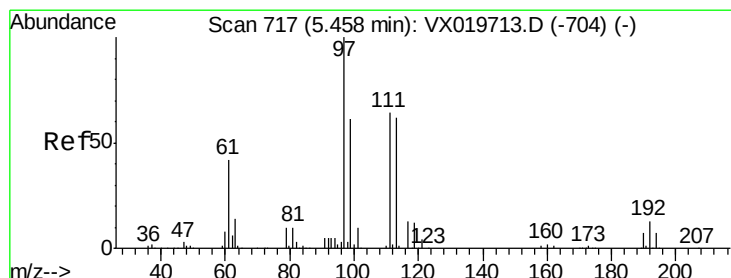
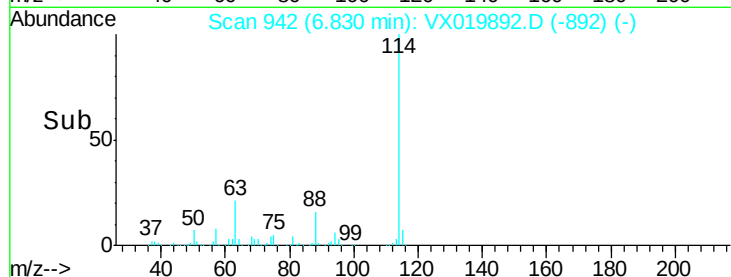
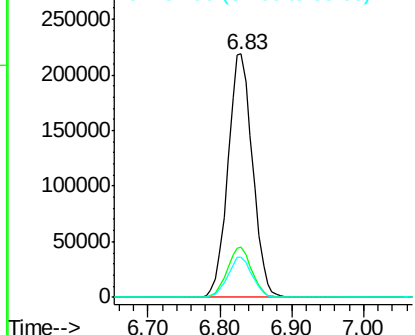
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019892.D
 Acq: 11 Dec 2020 22:02

Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D1-20201207

Tgt Ion:	114	Resp:	520005
Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	40.8
88	16.3	0.0	32.8

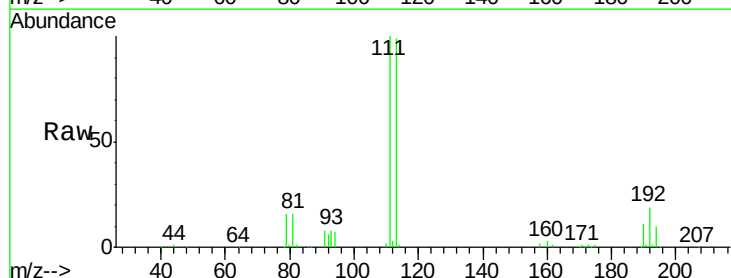


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

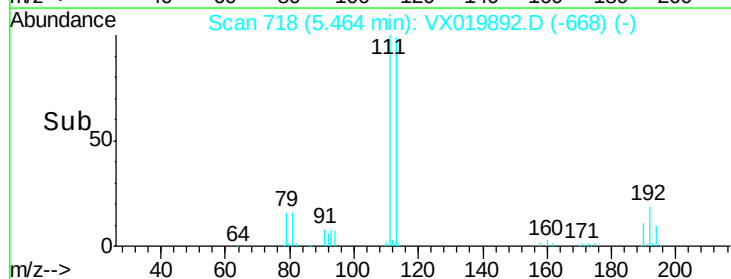
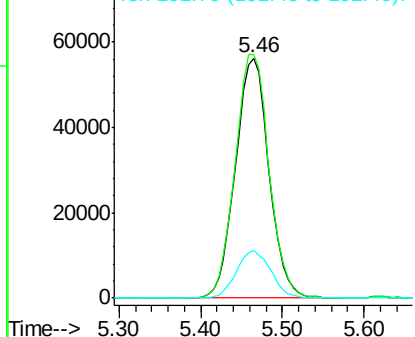


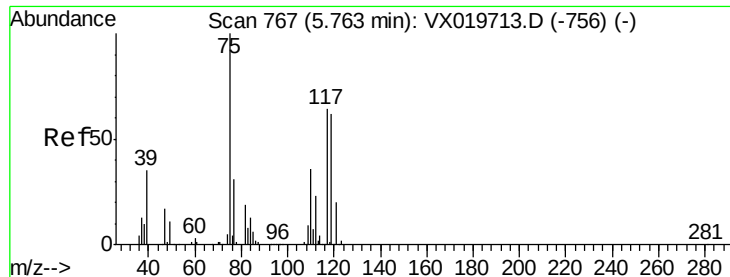
#35
 Dibromofluoromethane
 Concen: 47.510 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX019892.D
 Acq: 11 Dec 2020 22:02

Tgt Ion:	113	Resp:	159668
Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.9	122.9
192	20.4	16.7	25.1



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

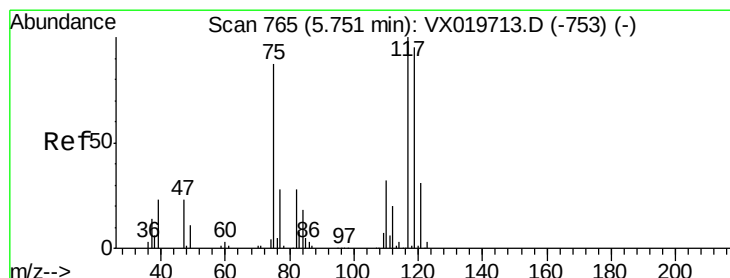
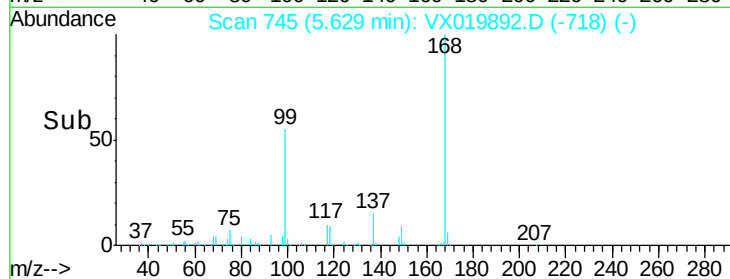
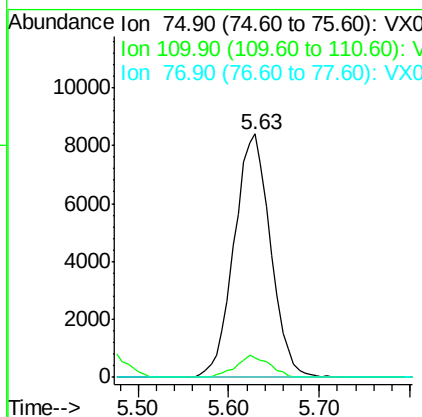
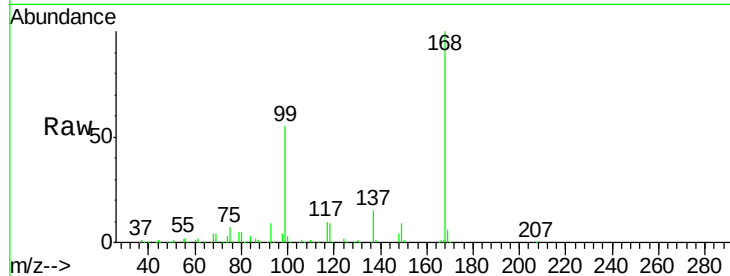




#36
 1,1-Dichloropropene
 Concen: 4.966 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019892.D
 Acq: 11 Dec 2020 22:02

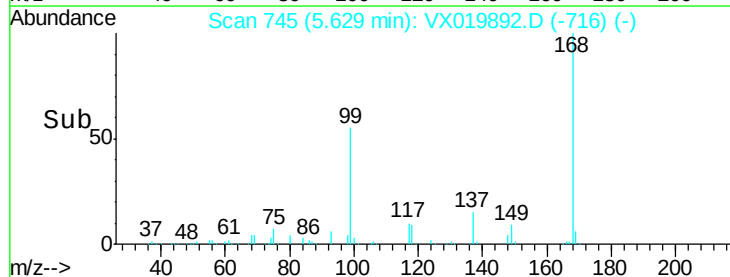
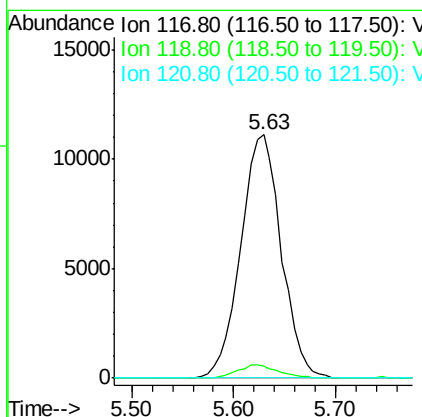
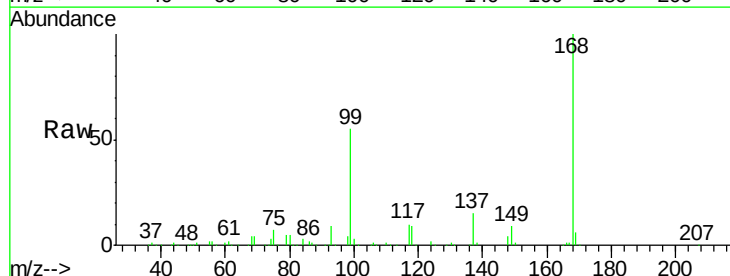
Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D1-20201207

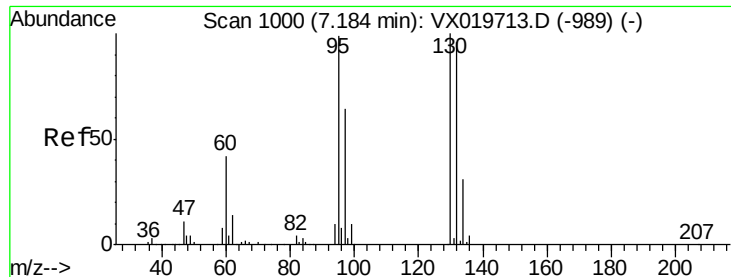
Tgt Ion: 75 Resp: 23334
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.1 54.4#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 6.665 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX019892.D
 Acq: 11 Dec 2020 22:02

Tgt Ion: 117 Resp: 30670
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.2 114.2#
 121 0.0 24.8 37.2#





#44

Trichloroethene

Concen: 9.108 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VX019892.D

Acq: 11 Dec 2020 22:02

Instrument :

MSVOA_X

ClientSampleId :

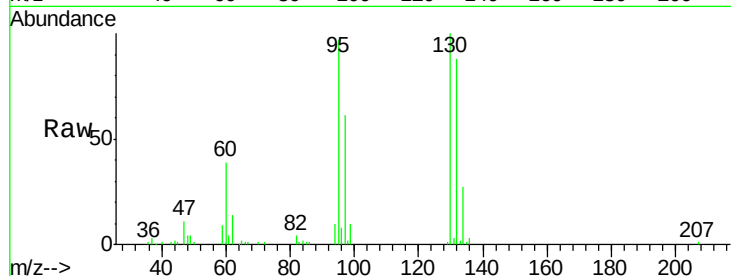
RE134D1-20201207

Tgt Ion:130 Resp: 34303

Ion Ratio Lower Upper

130 100

95 96.7 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.18

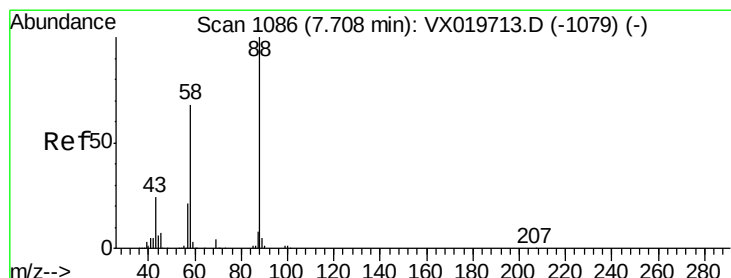
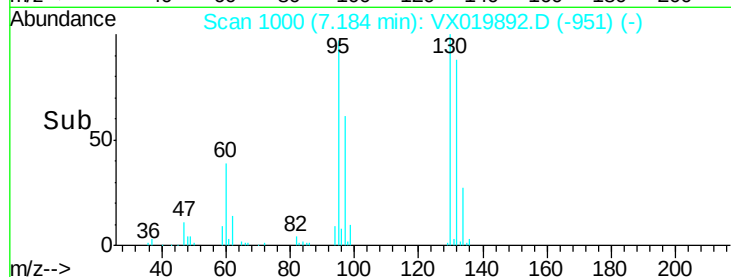
15000

10000

5000

0

Time--> 7.10 7.15 7.20 7.25 7.30



#49

1,4-Dioxane

Concen: 2.165 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VX019892.D

Acq: 11 Dec 2020 22:02

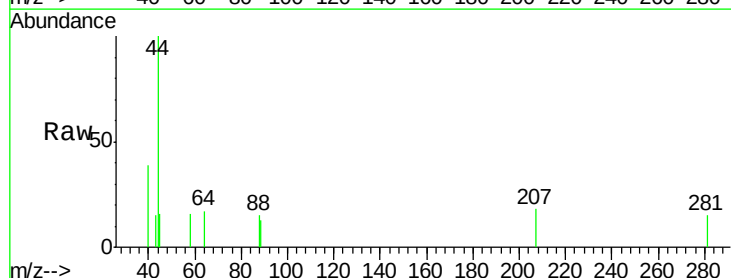
Tgt Ion: 88 Resp: 199

Ion Ratio Lower Upper

88 100

43 12.1 23.2 34.8#

58 36.2 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

7.73

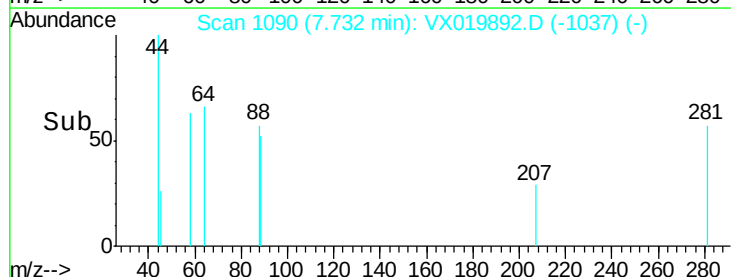
150

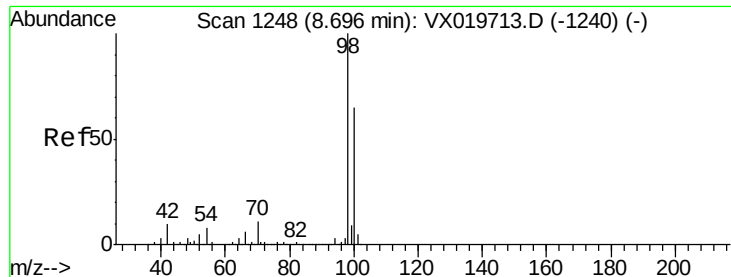
100

50

0

Time--> 7.68 7.70 7.72 7.74 7.76

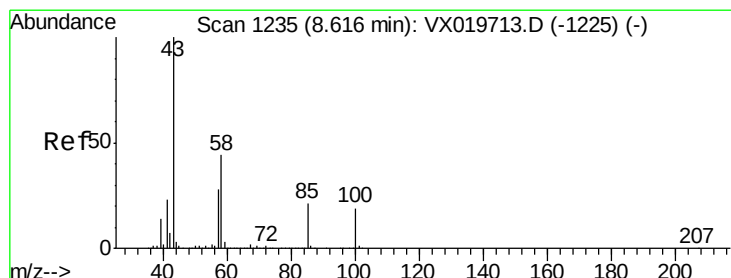
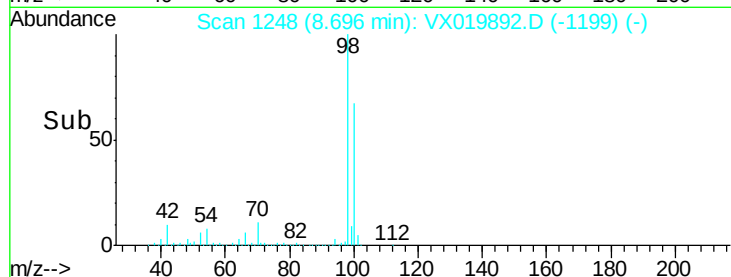
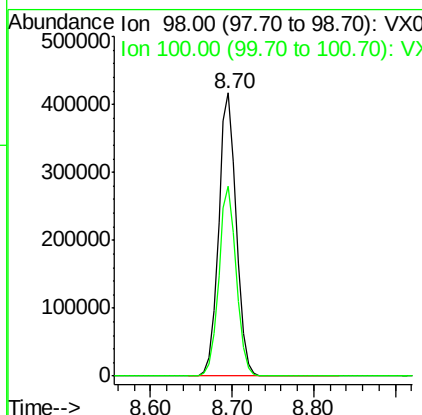
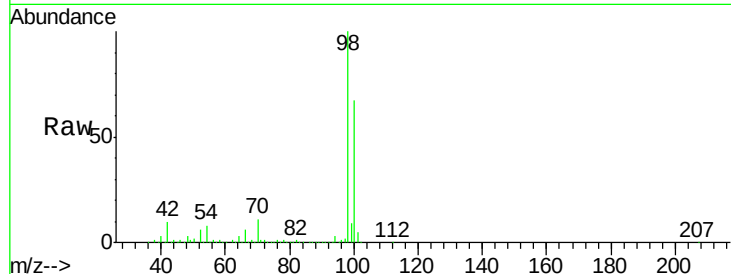




#50
Toluene-d8
Concen: 49.201 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019892.D
Acq: 11 Dec 2020 22:02

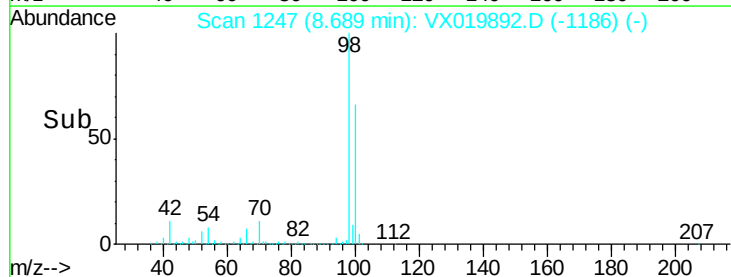
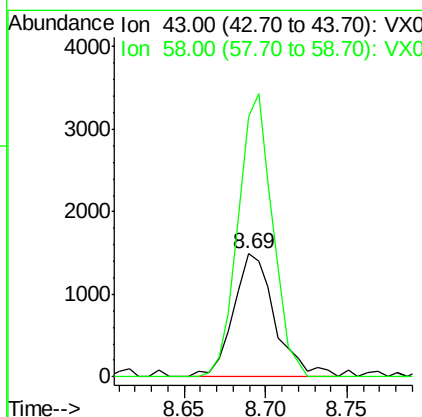
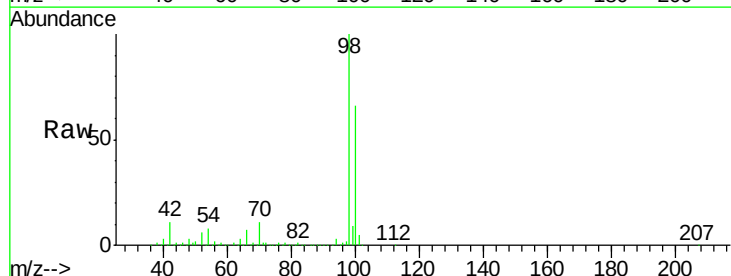
Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20201207

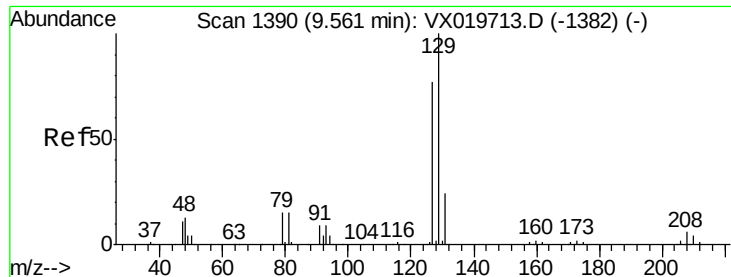
Tgt Ion: 98 Resp: 631267
Ion Ratio Lower Upper
98 100
100 66.3 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 0.561 ug/l
RT: 8.69 min Scan# 1247
Delta R.T. 0.07 min
Lab File: VX019892.D
Acq: 11 Dec 2020 22:02

Tgt Ion: 43 Resp: 2641
Ion Ratio Lower Upper
43 100
58 190.8 35.4 53.0#

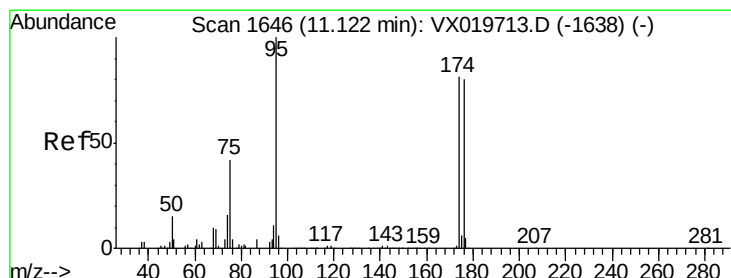
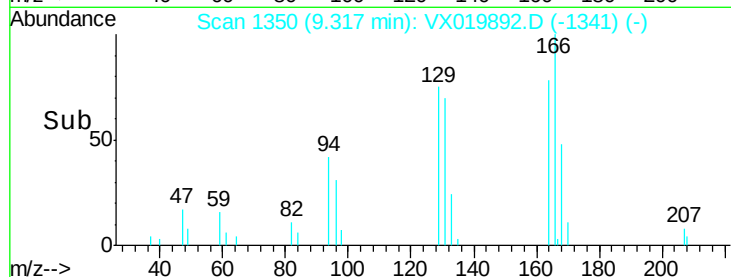
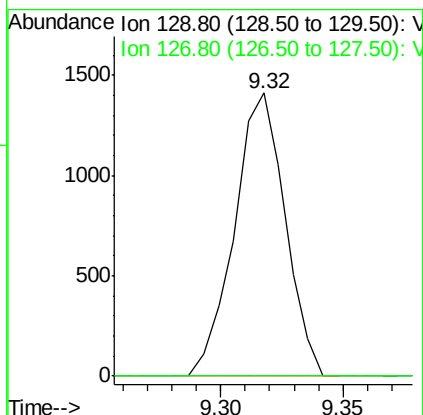
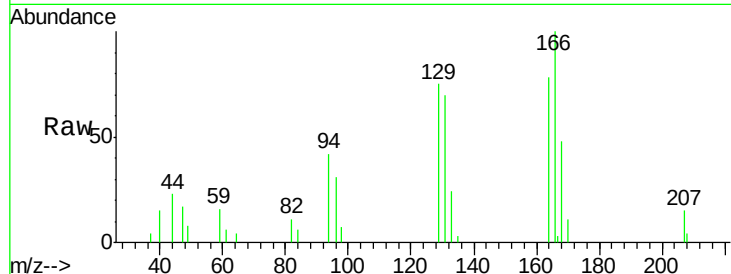




#60
Dibromochloromethane
Concen: 0.554 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.24 min
Lab File: VX019892.D
Acq: 11 Dec 2020 22:02

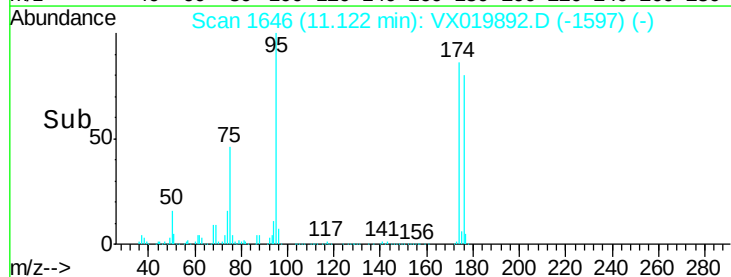
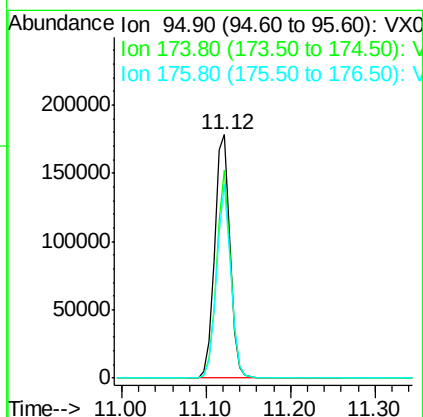
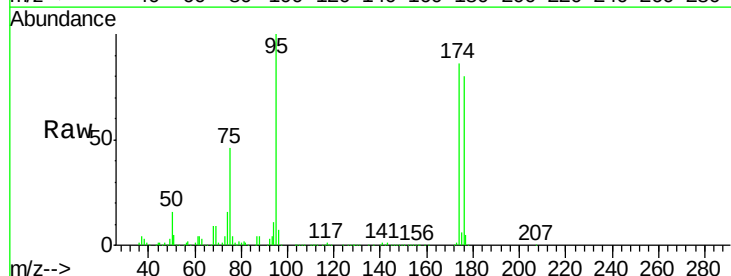
Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20201207

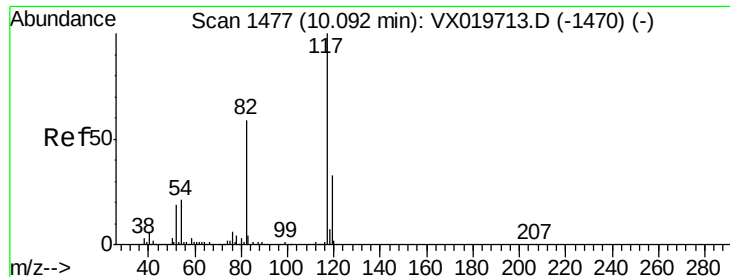
Tgt Ion: 129 Resp: 2036
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 46.044 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019892.D
Acq: 11 Dec 2020 22:02

Tgt Ion: 95 Resp: 224852
Ion Ratio Lower Upper
95 100
174 78.7 0.0 154.6
176 74.0 0.0 155.8

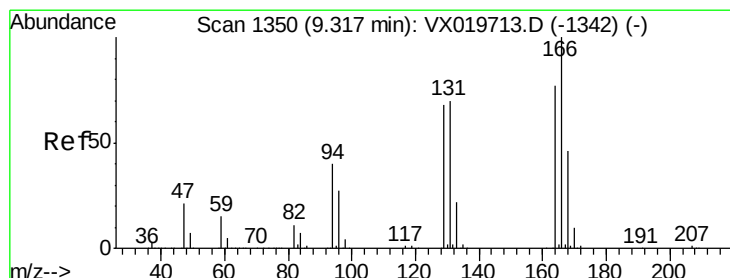
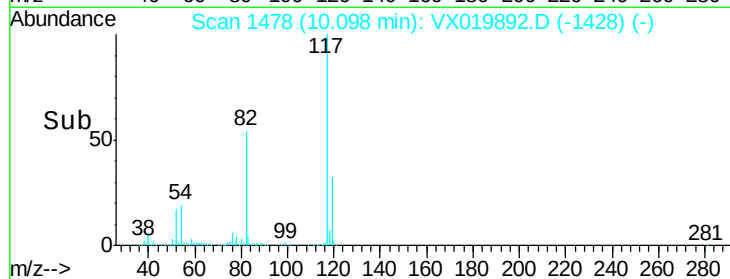
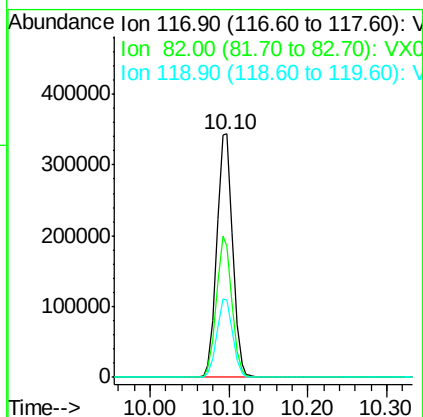
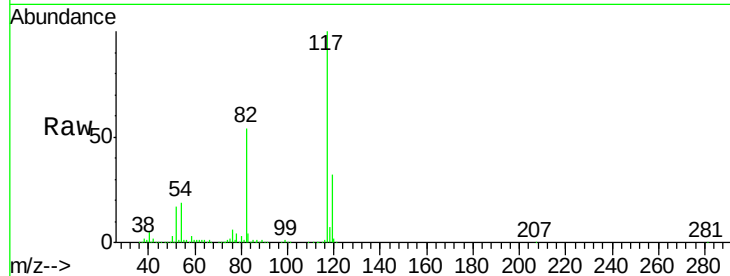




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX019892.D
Acq: 11 Dec 2020 22:02

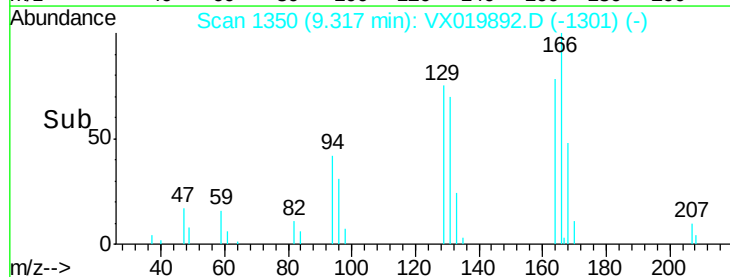
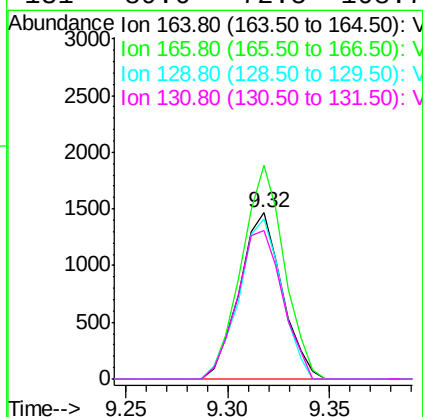
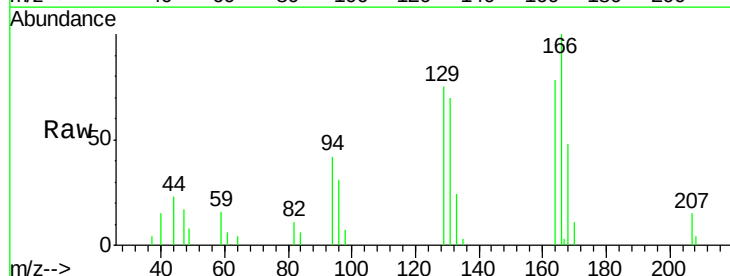
Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20201207

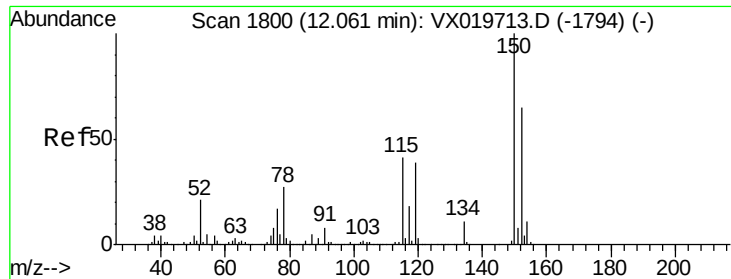
Tgt Ion:117 Resp: 483021
Ion Ratio Lower Upper
117 100
82 53.9 47.4 71.2
119 31.5 26.6 39.8



#64
Tetrachloroethene
Concen: 0.661 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX019892.D
Acq: 11 Dec 2020 22:02

Tgt Ion:164 Resp: 2142
Ion Ratio Lower Upper
164 100
166 128.4 103.4 155.2
129 96.2 70.8 106.2
131 89.6 72.5 108.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019892.D

Acq: 11 Dec 2020 22:02

Instrument :

MSVOA_X

ClientSampleId :

RE134D1-20201207

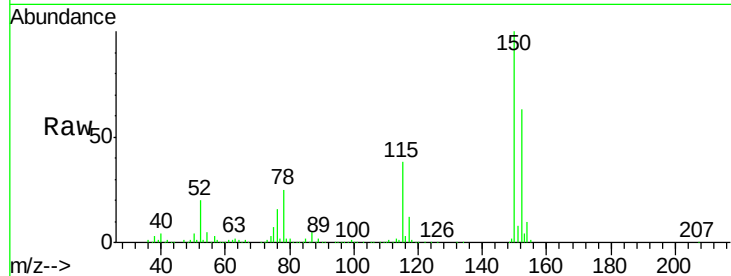
Tgt Ion:152 Resp: 207716

Ion Ratio Lower Upper

152 100

115 59.7 41.1 123.3

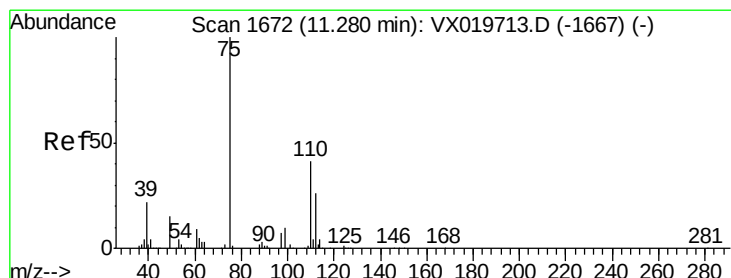
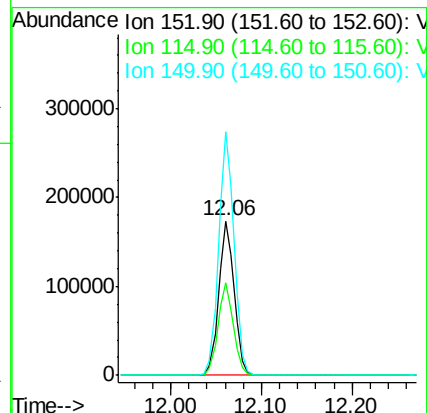
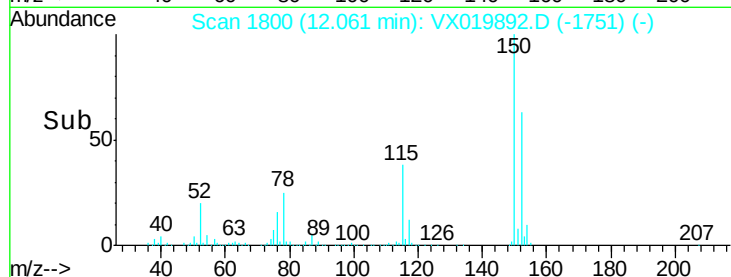
150 158.1 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.277 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019892.D

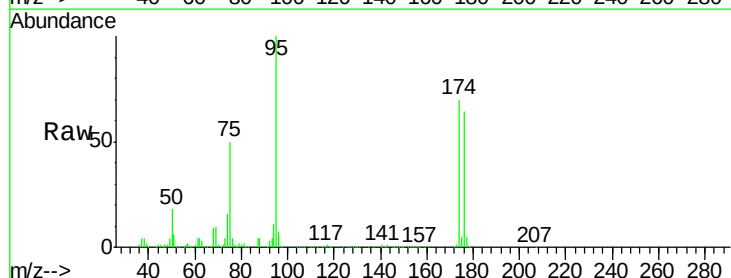
Acq: 11 Dec 2020 22:02

Tgt Ion: 75 Resp: 108440

Ion Ratio Lower Upper

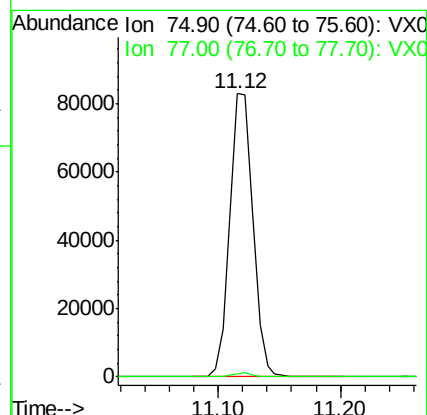
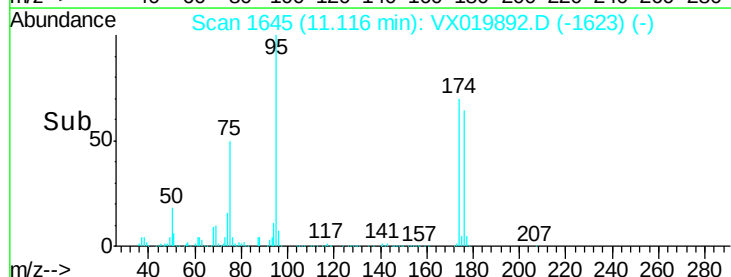
75 100

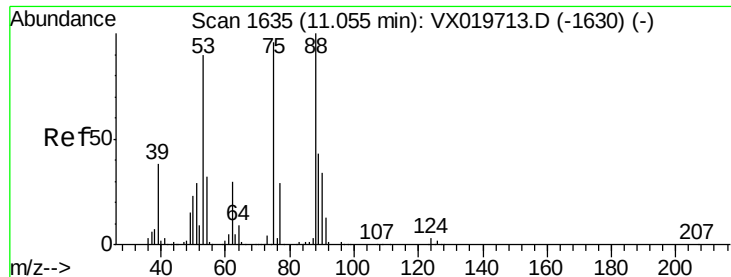
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.289 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019892.D

Acq: 11 Dec 2020 22:02

Instrument :

MSVOA_X

ClientSampleId :

RE134D1-20201207

Tgt Ion: 75 Resp: 108440

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

