

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121120\
 Data File : VX019898.D
 Acq On : 12 Dec 2020 00:22
 Operator : JC/MD
 Sample : L4996-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D1-20201207

Quant Time: Dec 12 02:09:36 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	5.62	168	304608	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	505654	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	473100	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	205995	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	196626	49.11	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	98.22%
35) Dibromofluoromethane	5.46	113	159944	48.94	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.88%
50) Toluene-d8	8.70	98	614421	49.25	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.50%
62) 4-Bromofluorobenzene	11.12	95	221135	46.57	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	93.14%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.18	85	1199	0.430 ug/l	91
5) Bromomethane	1.63	94	296	0.258 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.37	101	17449	6.321 ug/l	99
11) Tert butyl alcohol	3.00	59	567	Below Cal #	73
12) 1,1-Dichloroethene	2.36	96	3557	1.275 ug/l	96
16) Acetone	2.42	43	1047	0.696 ug/l	92
19) Methyl tert-butyl Ether	3.17	73	17664	1.738 ug/l	95
20) Methylene Chloride	2.83	84	414	Below Cal #	72
22) Diisopropyl ether	3.82	45	6952	0.729 ug/l #	79
23) Vinyl Acetate	3.83	43	3582	0.441 ug/l #	68
24) 1,1-Dichloroethane	3.67	63	4319	0.752 ug/l	99
27) cis-1,2-Dichloroethene	4.57	96	7468	1.961 ug/l	97
28) Bromochloromethane	5.18	49	906	0.331 ug/l #	9
30) Chloroform	5.17	83	12657	2.142 ug/l	92
31) Cyclohexane	5.62	56	5961	1.197 ug/l #	1
36) 1,1-Dichloropropene	5.62	75	22753	4.980 ug/l #	48
38) Carbon Tetrachloride	5.62	117	30307	6.773 ug/l #	17
39) Methylcyclohexane	7.18	83	4961	0.924 ug/l #	1
42) 1,2-Dichloroethane	6.16	62	1459	0.306 ug/l	77
44) Trichloroethene	7.18	130	428602	117.035 ug/l	98
49) 1,4-Dioxane	7.71	88	1054	11.795 ug/l #	91
60) Dibromochloromethane	9.32	129	10312	2.885 ug/l #	11
64) Tetrachloroethene	9.32	164	11167	3.520 ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	105192	22.768 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	105192	65.819 ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.00 min

Lab File: VX019898.D

Acq: 12 Dec 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

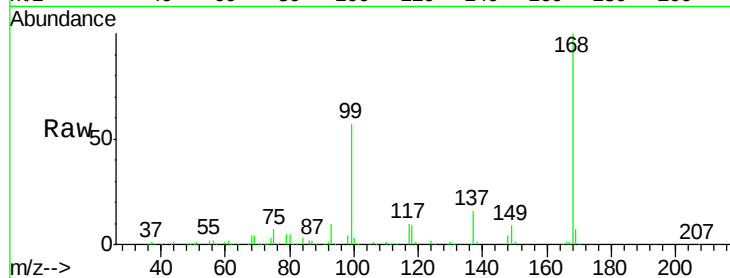
RE132D1-20201207

Tgt Ion:168 Resp: 304608

Ion Ratio Lower Upper

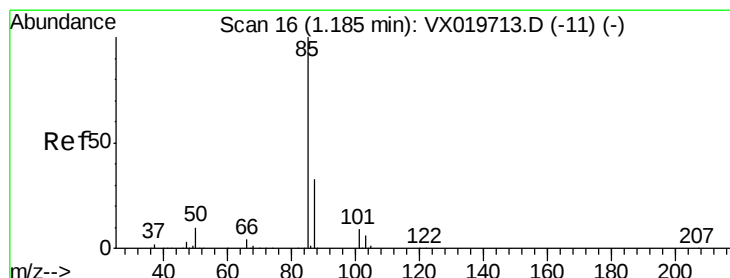
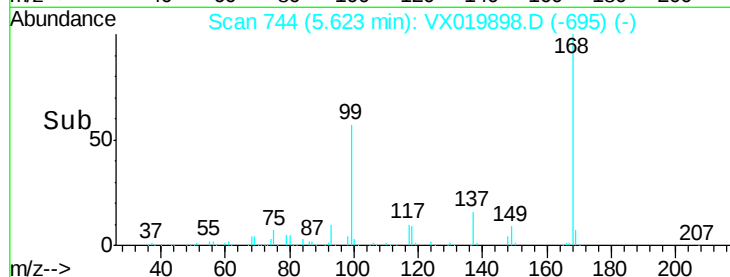
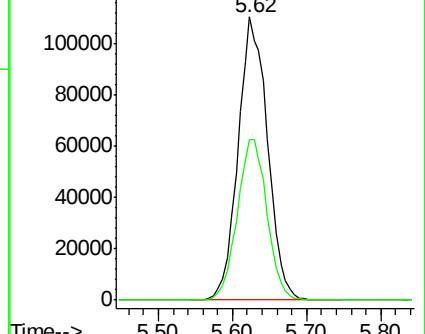
168 100

99 56.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.430 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX019898.D

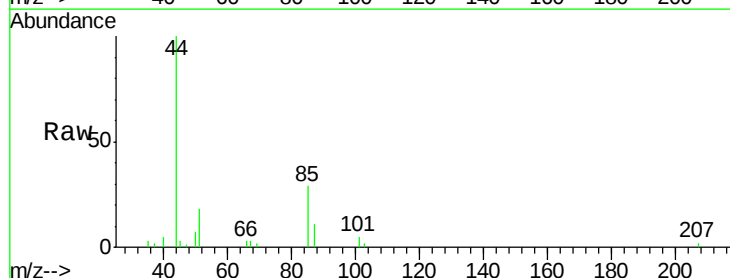
Acq: 12 Dec 2020 00:22

Tgt Ion: 85 Resp: 1199

Ion Ratio Lower Upper

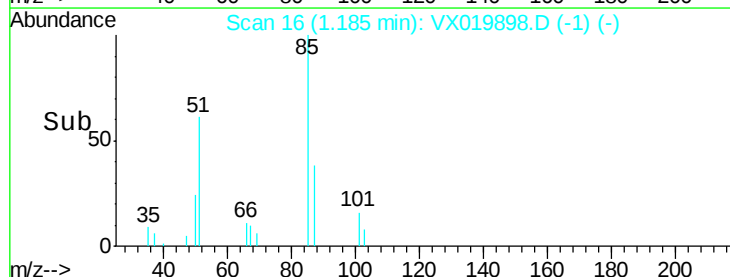
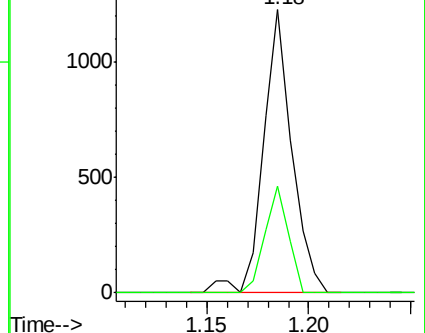
85 100

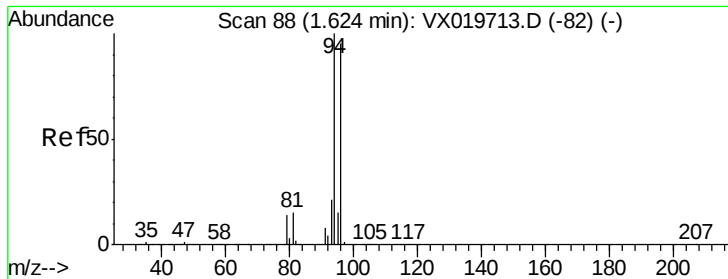
87 37.8 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: 0.258 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019898.D

Acq: 12 Dec 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

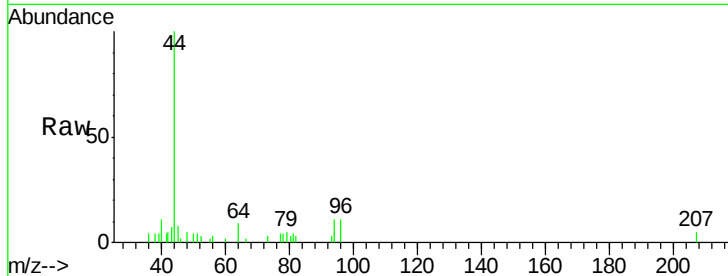
RE132D1-20201207

Tgt Ion: 94 Resp: 296

Ion Ratio Lower Upper

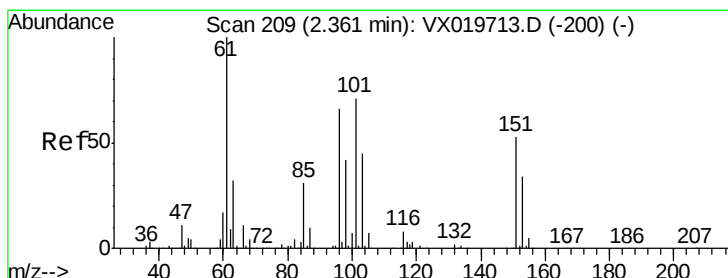
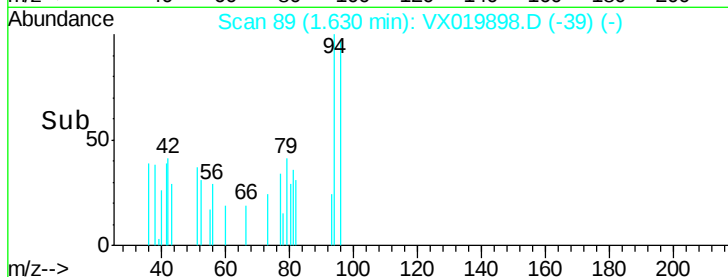
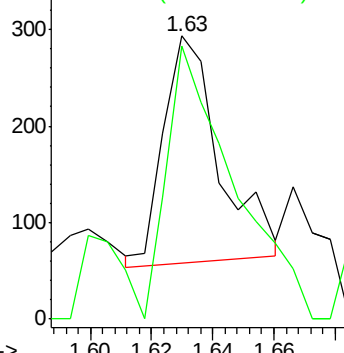
94 100

96 102.2 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.321 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX019898.D

Acq: 12 Dec 2020 00:22

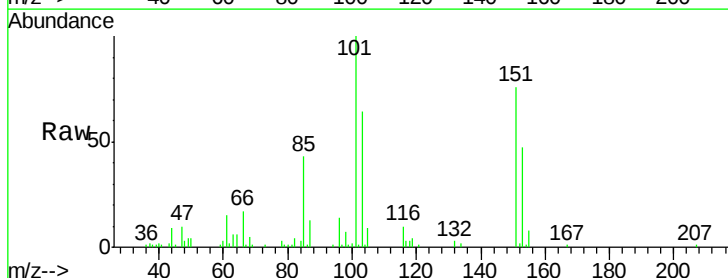
Tgt Ion: 101 Resp: 17449

Ion Ratio Lower Upper

101 100

85 42.7 34.9 52.3

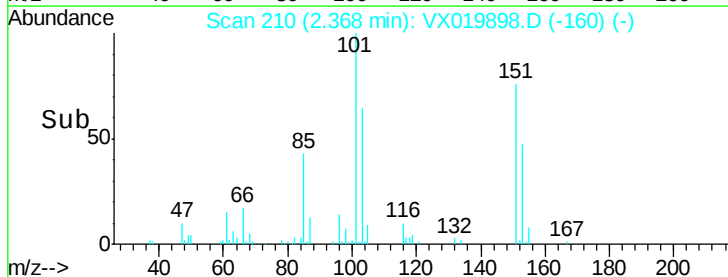
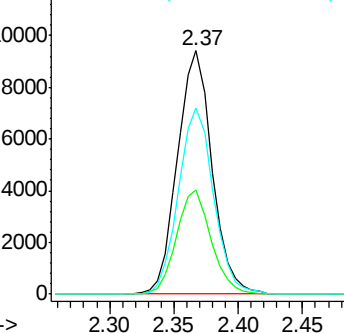
151 77.7 61.4 92.2

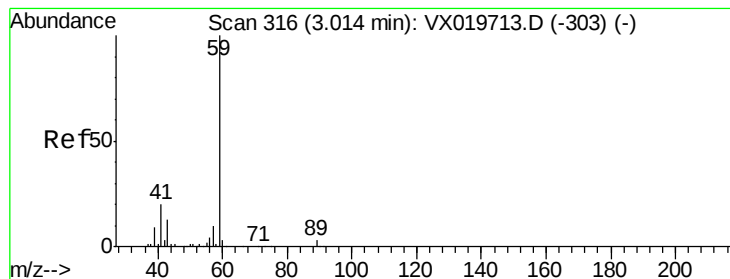


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



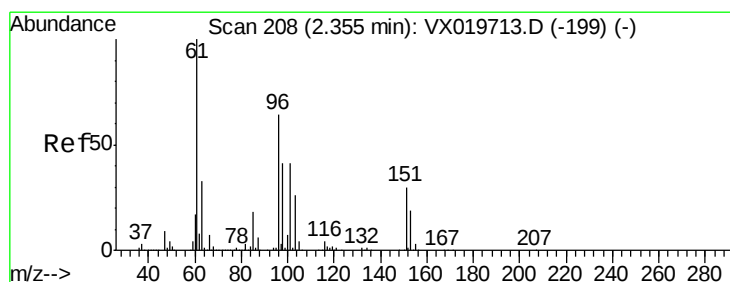
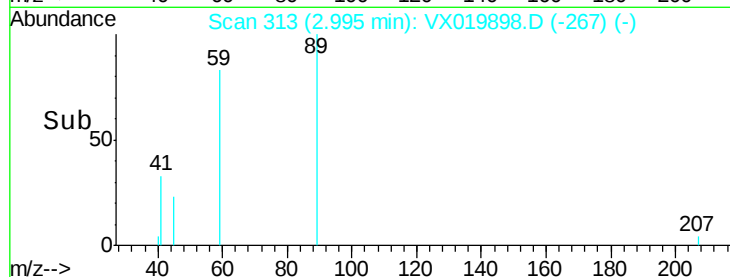
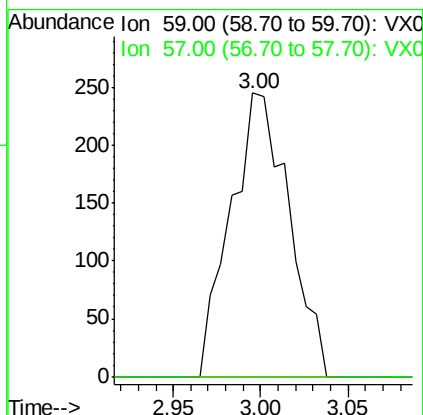
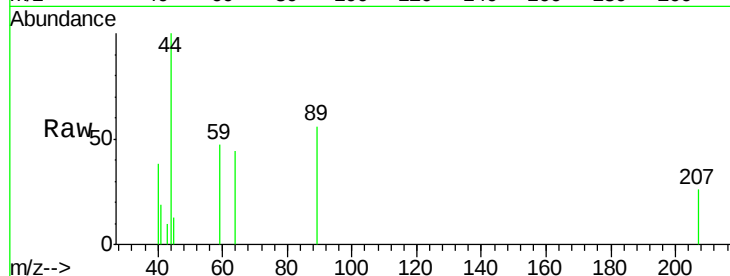


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.00 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX019898.D
 Acq: 12 Dec 2020 00:22

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D1-20201207

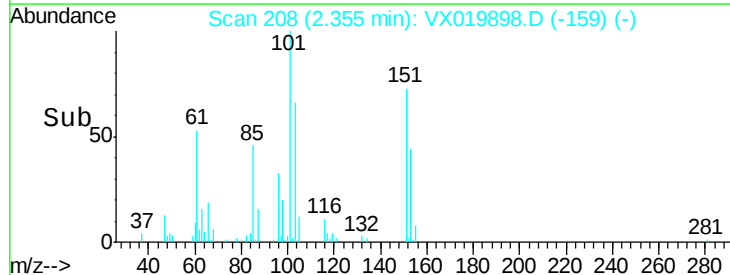
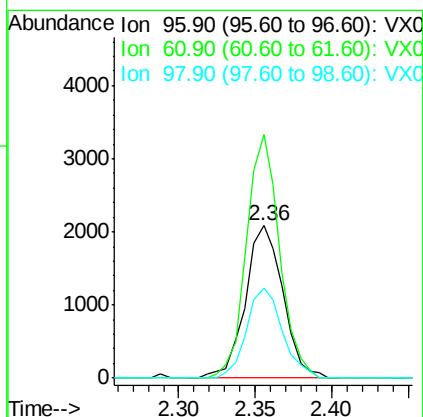
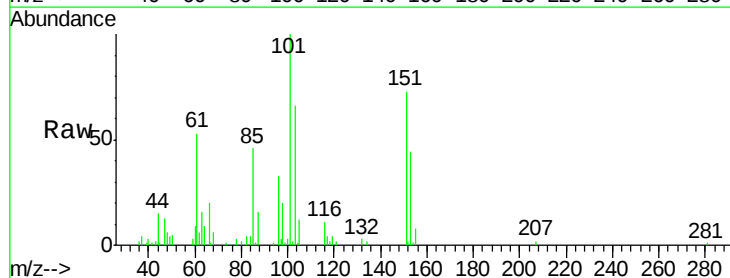
Tgt Ion: 59 Resp: 567
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

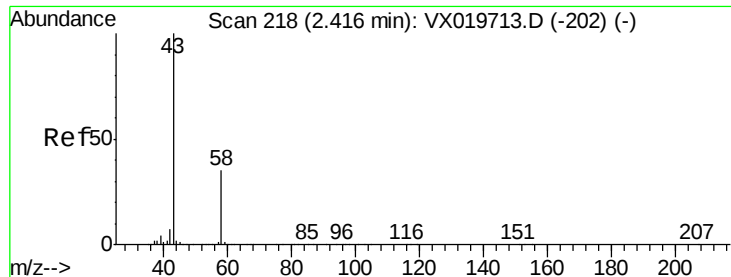


#12

1,1-Dichloroethene
 Concen: 1.275 ug/l
 RT: 2.36 min Scan# 208
 Delta R.T. 0.00 min
 Lab File: VX019898.D
 Acq: 12 Dec 2020 00:22

Tgt Ion: 96 Resp: 3557
 Ion Ratio Lower Upper
 96 100
 61 159.9 124.6 187.0
 98 59.5 50.6 76.0





#16

Acetone

Concen: 0.696 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019898.D

Acq: 12 Dec 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

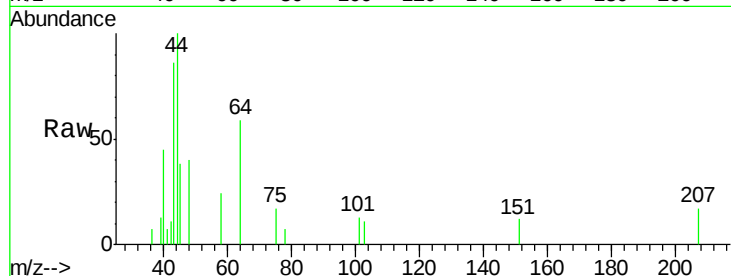
RE132D1-20201207

Tgt Ion: 43 Resp: 1047

Ion Ratio Lower Upper

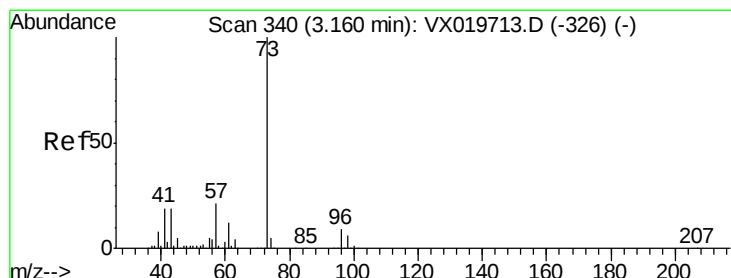
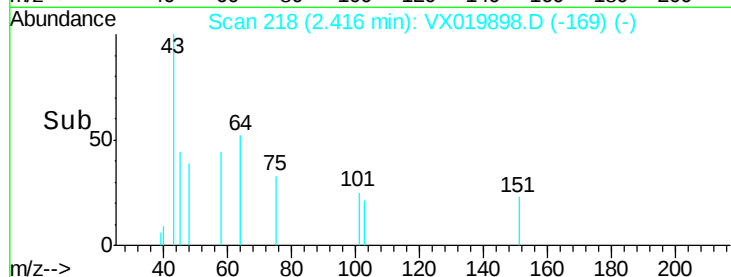
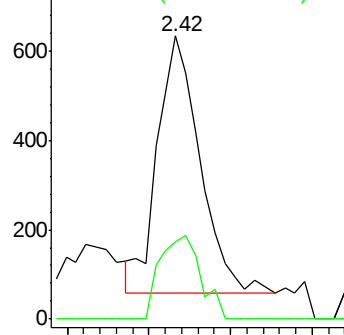
43 100

58 30.3 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#19

Methyl tert-butyl Ether

Concen: 1.738 ug/l

RT: 3.17 min Scan# 341

Delta R.T. 0.01 min

Lab File: VX019898.D

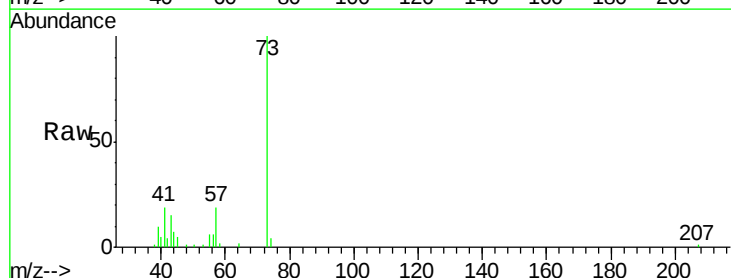
Acq: 12 Dec 2020 00:22

Tgt Ion: 73 Resp: 17664

Ion Ratio Lower Upper

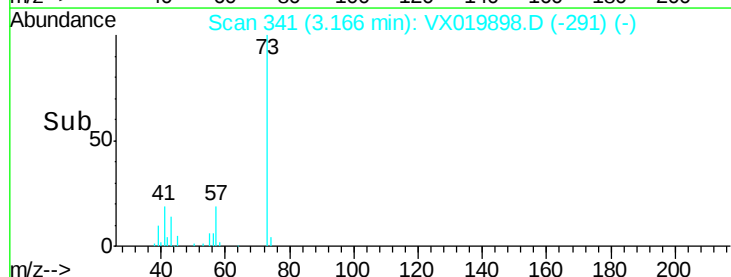
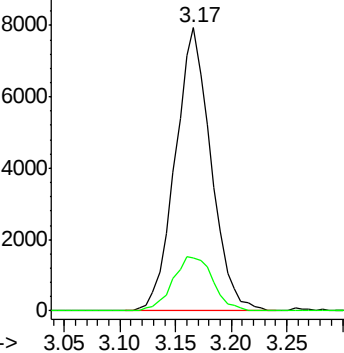
73 100

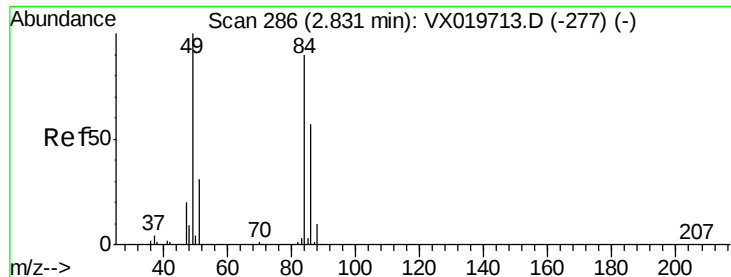
57 18.9 17.1 25.7



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

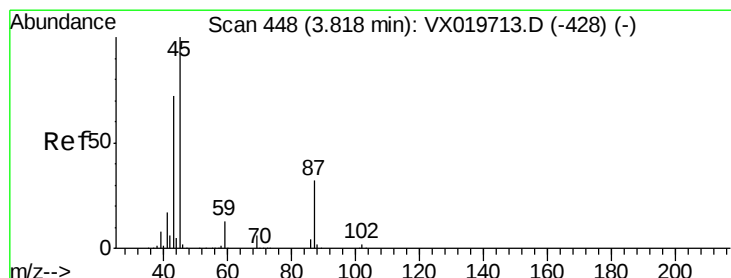
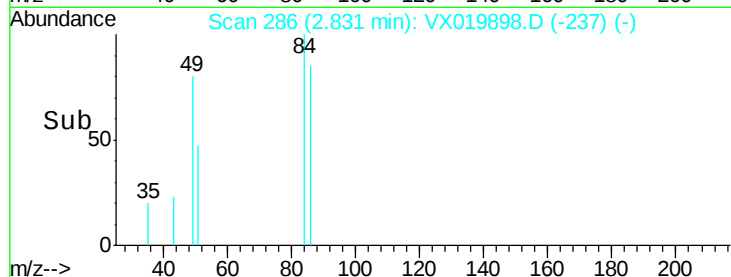
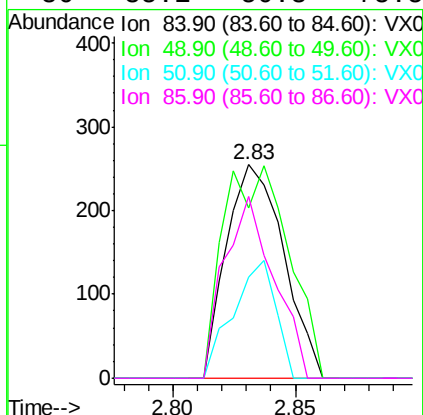
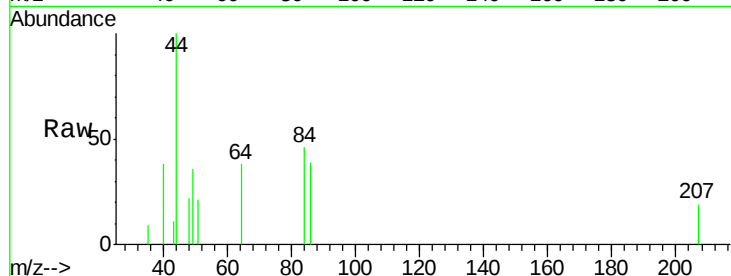




#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019898.D
Acq: 12 Dec 2020 00:22

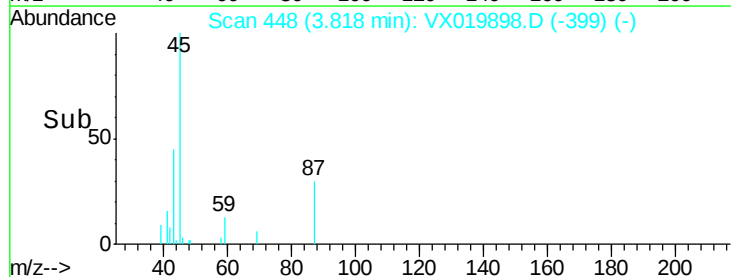
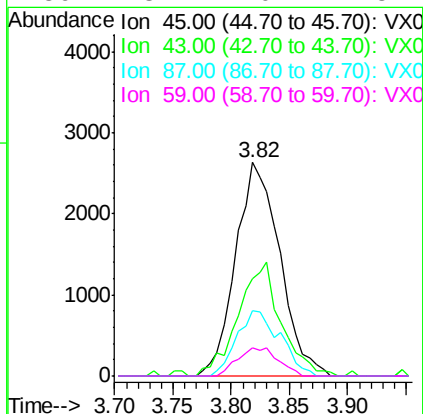
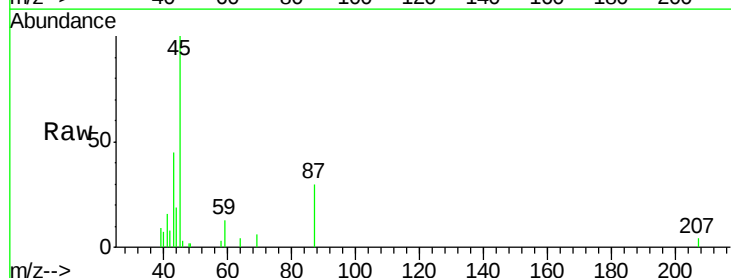
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20201207

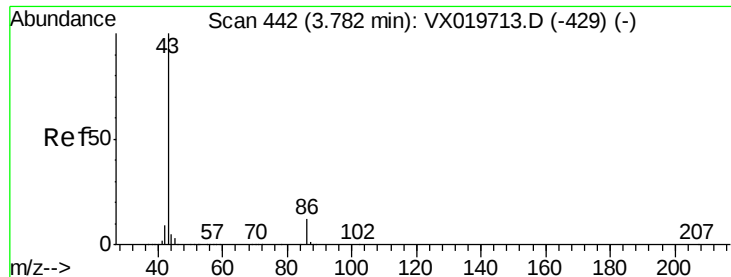
Tgt Ion: 84 Resp: 414
Ion Ratio Lower Upper
84 100
49 79.6 88.6 132.8#
51 47.1 27.0 40.6#
86 85.1 50.3 75.5#



#22
Diisopropyl ether
Concen: 0.729 ug/l
RT: 3.82 min Scan# 448
Delta R.T. 0.00 min
Lab File: VX019898.D
Acq: 12 Dec 2020 00:22

Tgt Ion: 45 Resp: 6952
Ion Ratio Lower Upper
45 100
43 45.3 58.0 87.0#
87 30.3 25.4 38.0
59 13.1 10.2 15.2





#23

Vinyl Acetate

Concen: 0.441 ug/l

RT: 3.83 min Scan# 450

Delta R.T. 0.05 min

Lab File: VX019898.D

Acq: 12 Dec 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

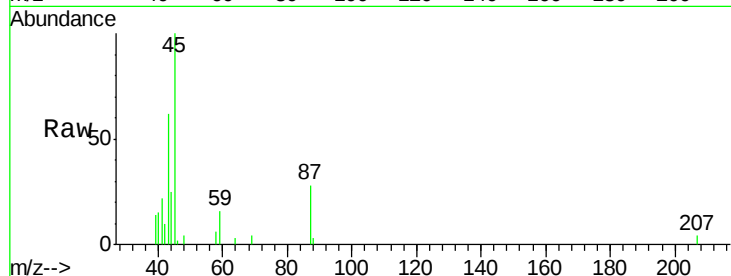
RE132D1-20201207

Tgt Ion: 43 Resp: 3582

Ion Ratio Lower Upper

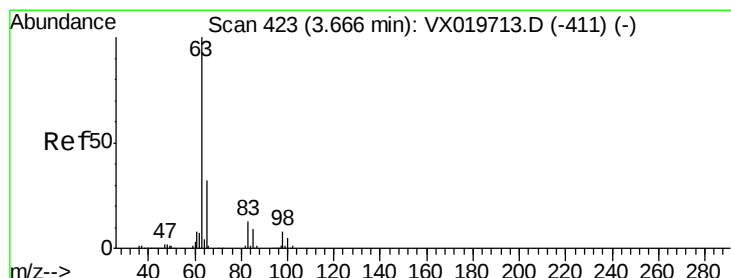
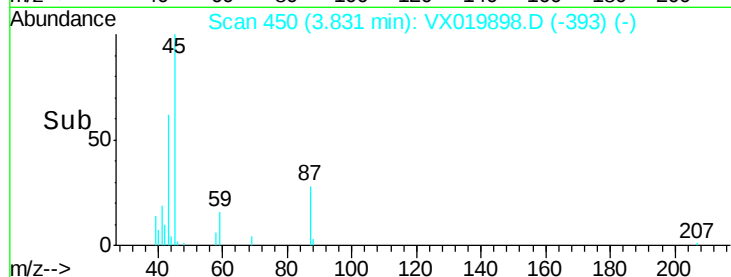
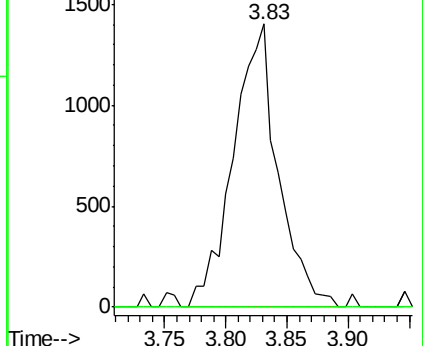
43 100

86 0.0 9.9 14.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#24

1,1-Dichloroethane

Concen: 0.752 ug/l

RT: 3.67 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX019898.D

Acq: 12 Dec 2020 00:22

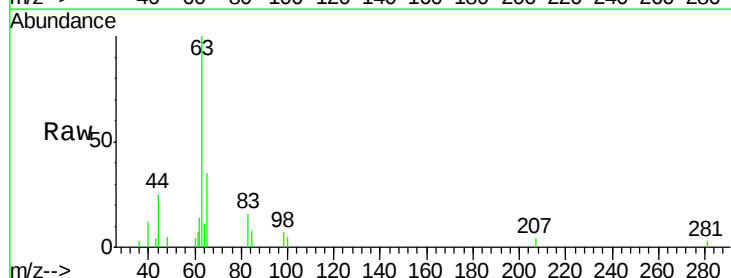
Tgt Ion: 63 Resp: 4319

Ion Ratio Lower Upper

63 100

98 7.0 3.8 11.2

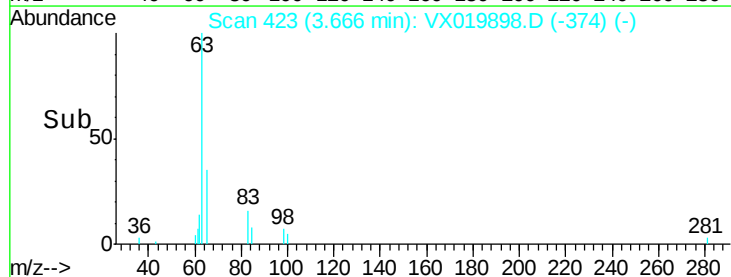
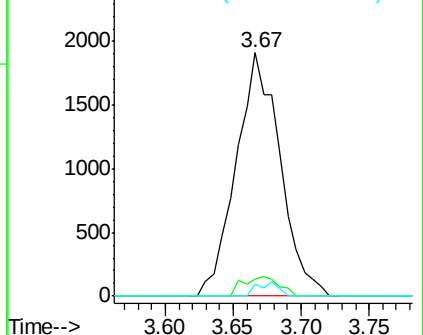
100 4.7 2.5 7.5

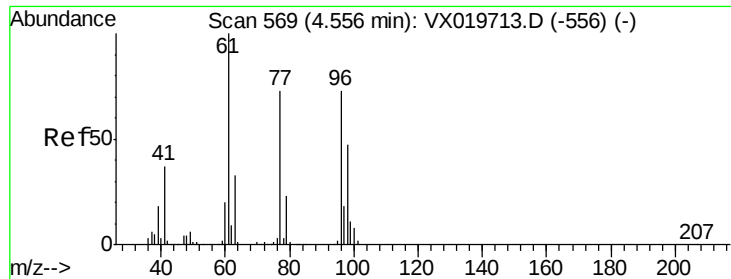


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



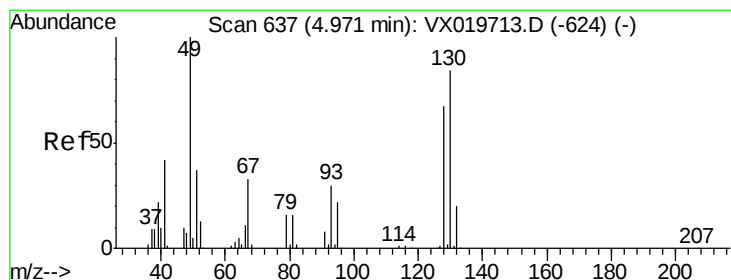
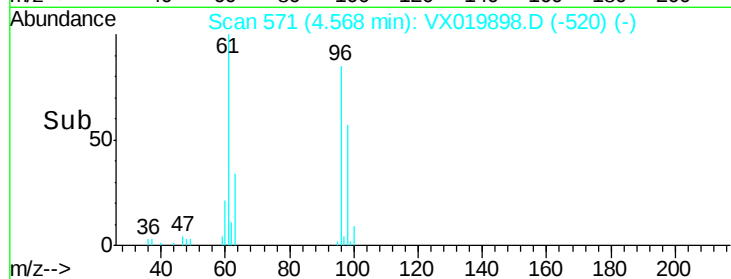
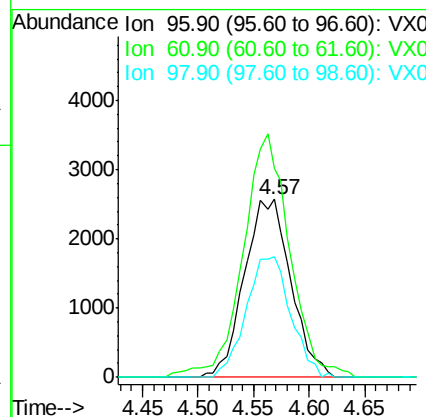
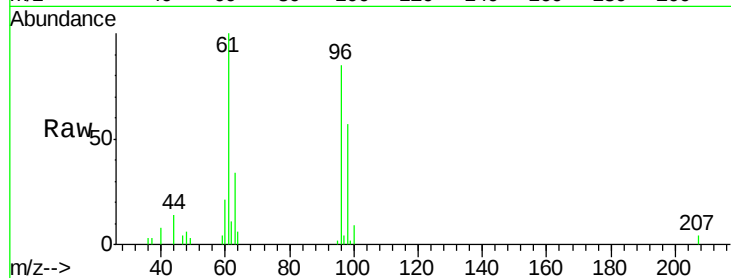


#27

cis-1,2-Dichloroethene
Concen: 1.961 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX019898.D
Acq: 12 Dec 2020 00:22

Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20201207

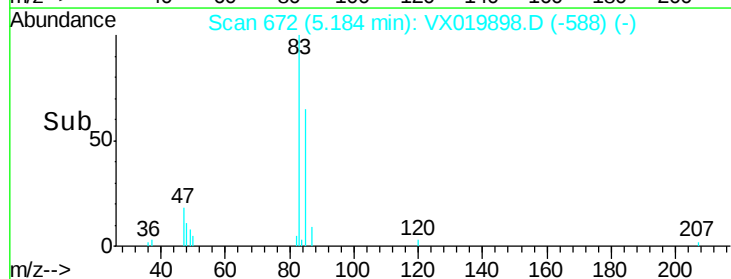
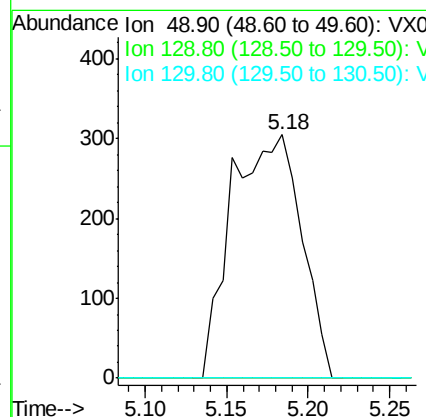
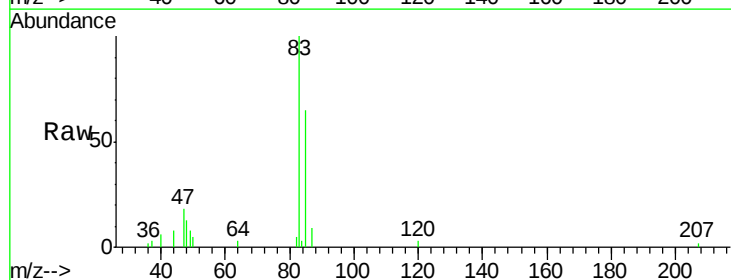
Tgt Ion: 96 Resp: 7468
Ion Ratio Lower Upper
96 100
61 137.3 0.0 285.6
98 64.9 0.0 129.6

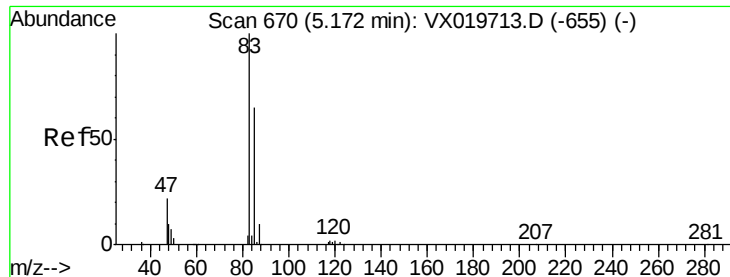


#28

Bromochloromethane
Concen: 0.331 ug/l
RT: 5.18 min Scan# 672
Delta R.T. 0.21 min
Lab File: VX019898.D
Acq: 12 Dec 2020 00:22

Tgt Ion: 49 Resp: 906
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 0.0 68.2 102.2#

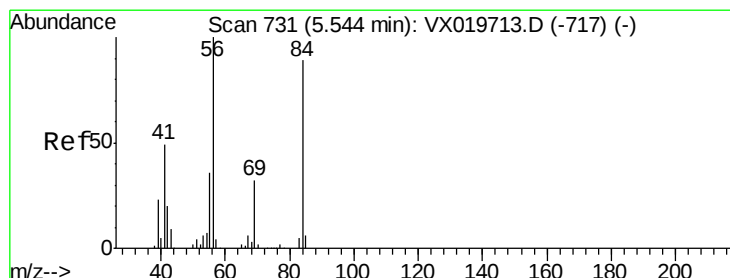
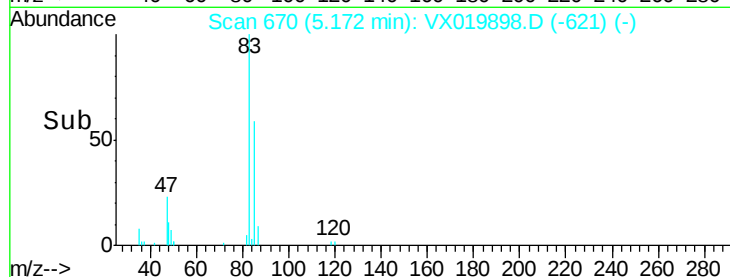
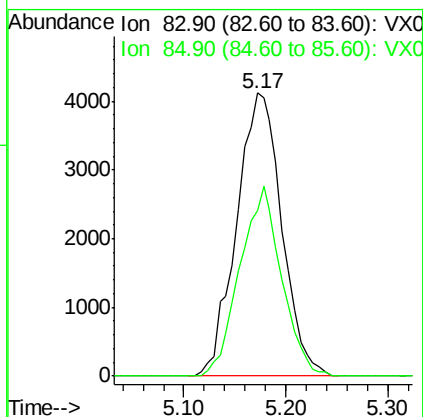
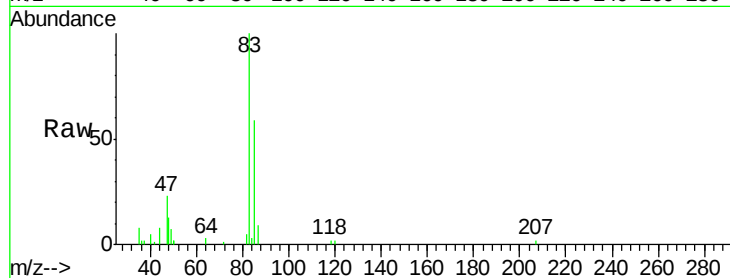




#30
Chloroform
Concen: 2.142 ug/l
RT: 5.17 min Scan# 670
Delta R.T. 0.00 min
Lab File: VX019898.D
Acq: 12 Dec 2020 00:22

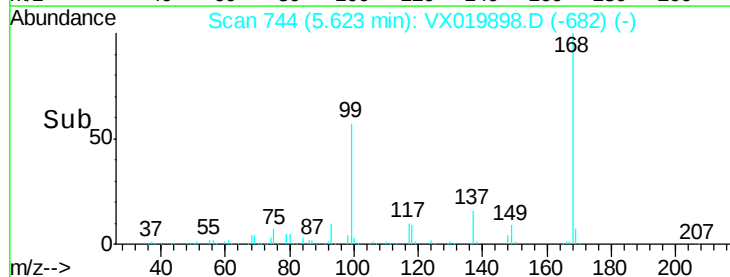
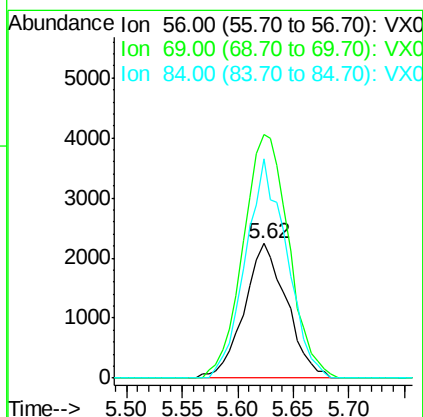
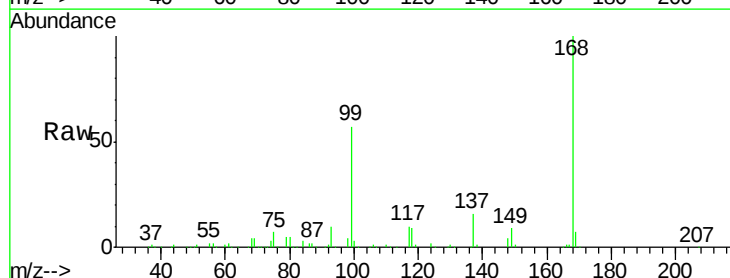
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20201207

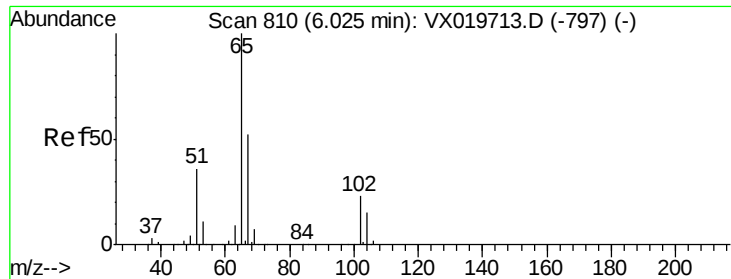
Tgt Ion: 83 Resp: 12657
Ion Ratio Lower Upper
83 100
85 58.6 52.0 78.0



#31
Cyclohexane
Concen: 1.197 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019898.D
Acq: 12 Dec 2020 00:22

Tgt Ion: 56 Resp: 5961
Ion Ratio Lower Upper
56 100
69 180.9 25.3 37.9#
84 162.8 71.4 107.0#

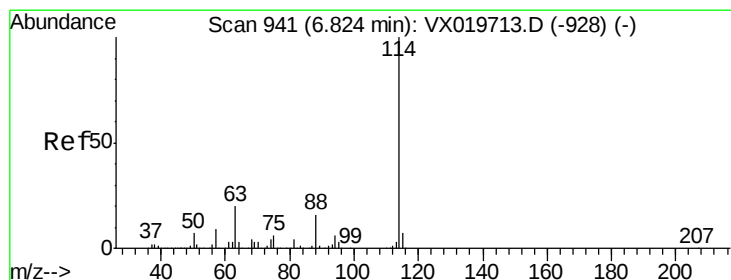
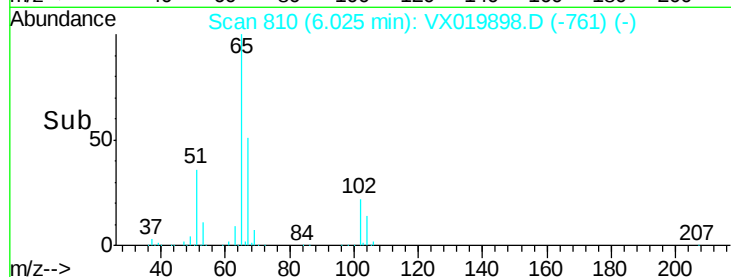
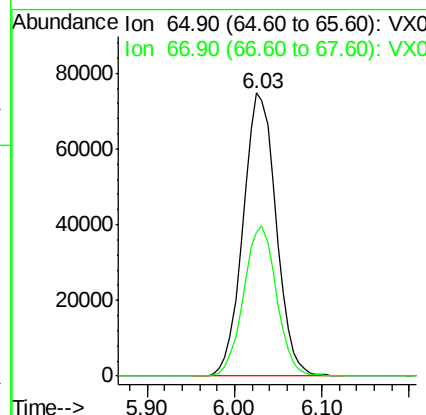
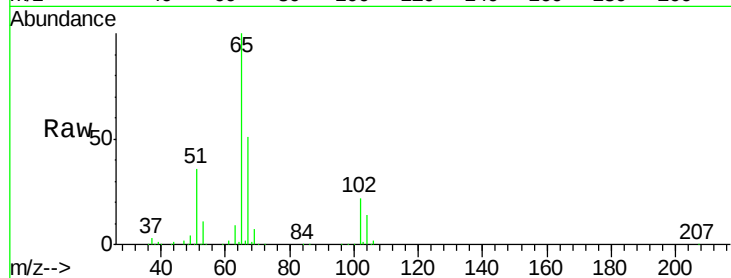




#33
 1,2-Dichloroethane-d4
 Concen: 49.114 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VX019898.D
 Acq: 12 Dec 2020 00:22

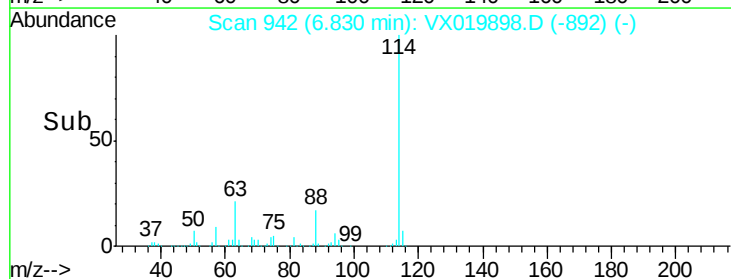
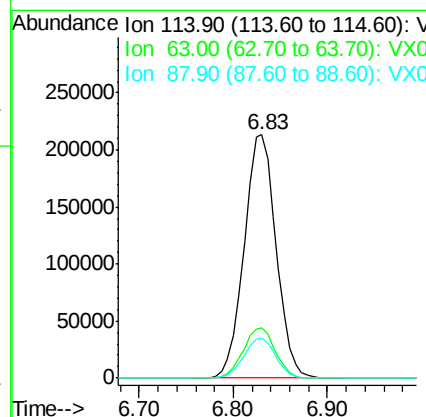
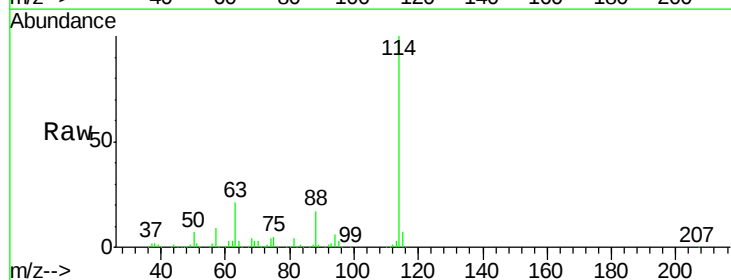
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D1-20201207

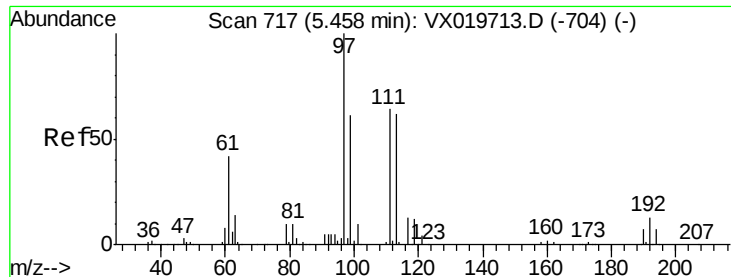
Tgt Ion: 65 Resp: 196626
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019898.D
 Acq: 12 Dec 2020 00:22

Tgt Ion: 114 Resp: 505654
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.8
 88 16.6 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.943 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019898.D

Acq: 12 Dec 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

RE132D1-20201207

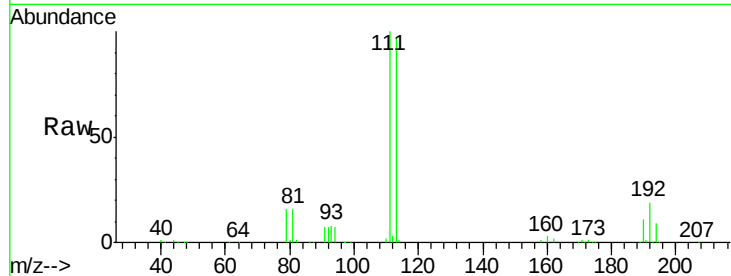
Tgt Ion:113 Resp: 159944

Ion Ratio Lower Upper

113 100

111 101.4 81.9 122.9

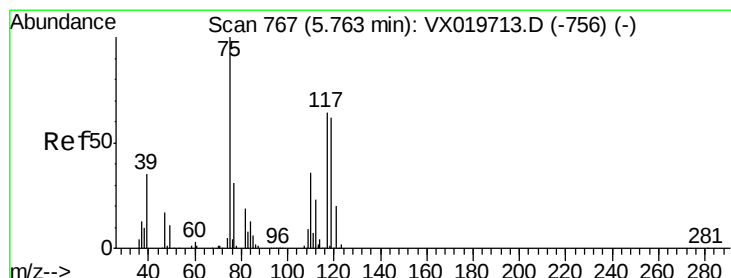
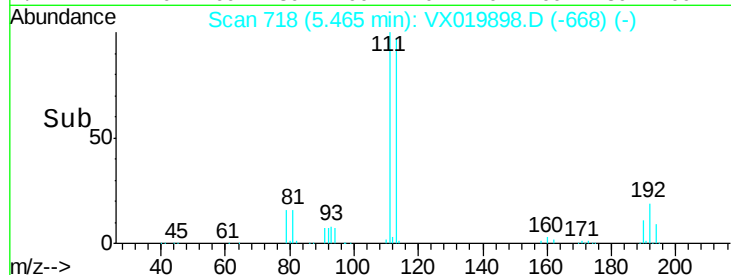
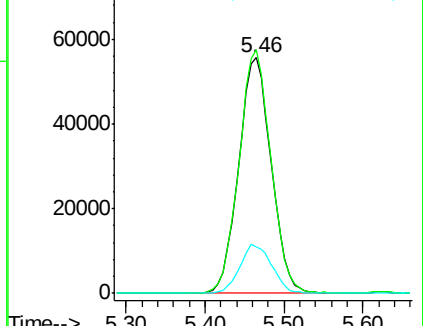
192 20.3 16.7 25.1



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: 4.980 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019898.D

Acq: 12 Dec 2020 00:22

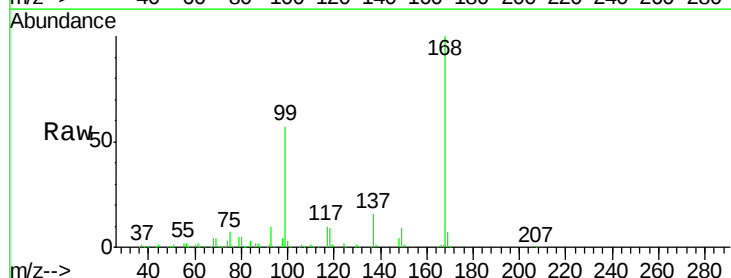
Tgt Ion: 75 Resp: 22753

Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.4#

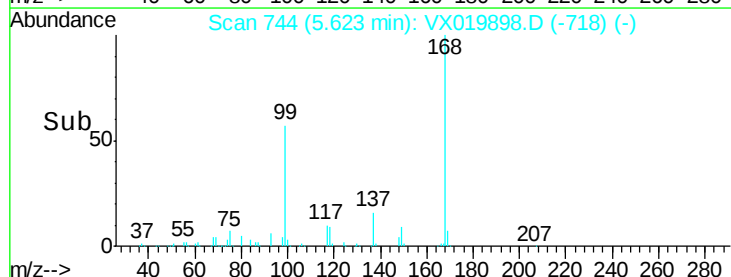
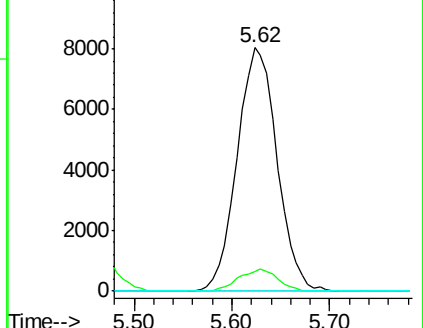
77 0.0 25.3 37.9#

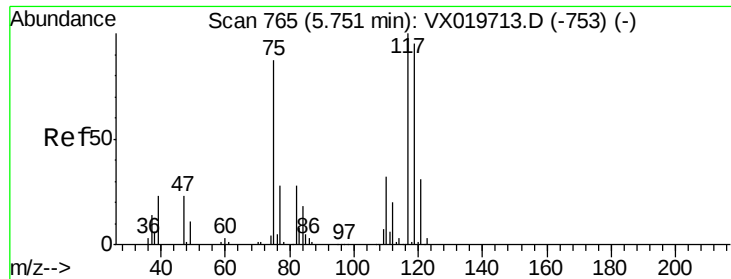


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

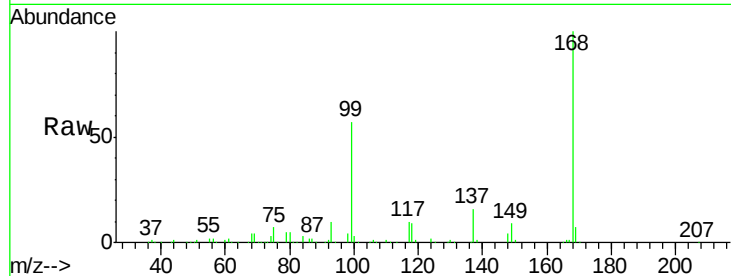




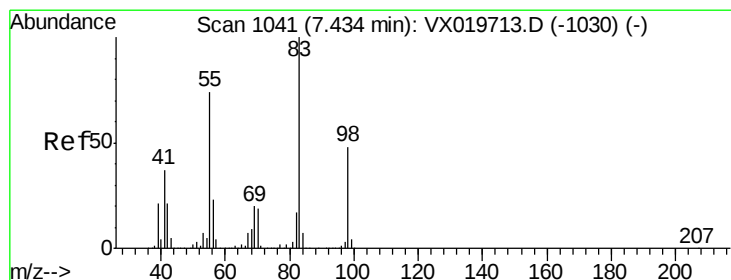
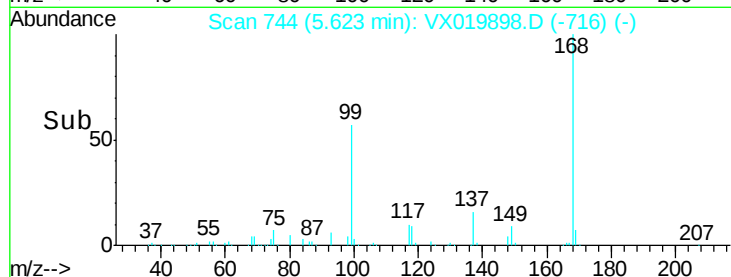
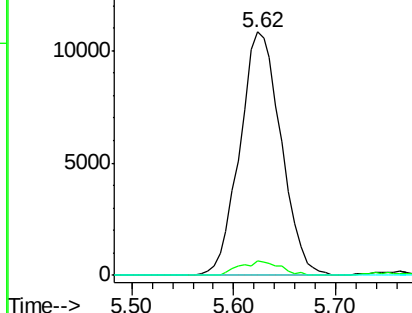
#38
Carbon Tetrachloride
Concen: 6.773 ug/l
RT: 5.62 min Scan# 744
Delta R.T. -0.13 min
Lab File: VX019898.D
Acq: 12 Dec 2020 00:22

Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20201207

Tgt Ion: 117 Resp: 30307
Ion Ratio Lower Upper
117 100
119 6.0 76.2 114.2#
121 0.0 24.8 37.2#

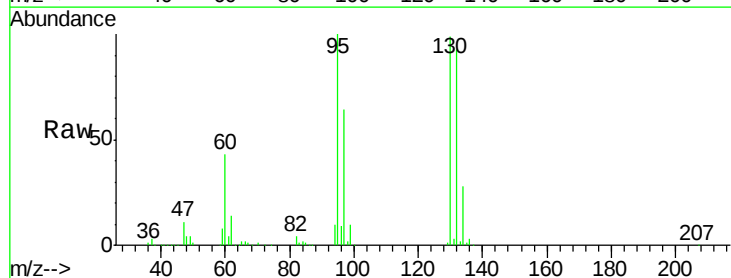


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

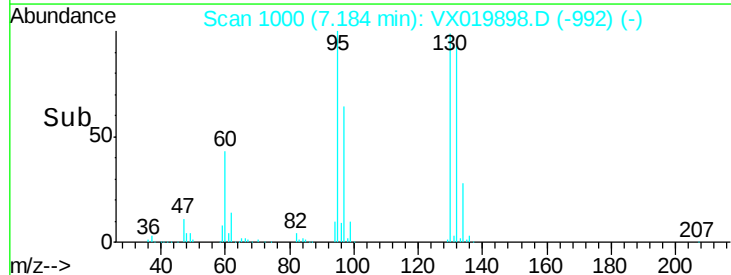
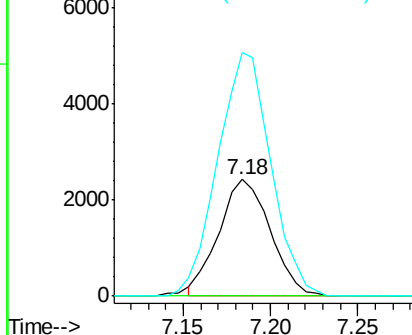


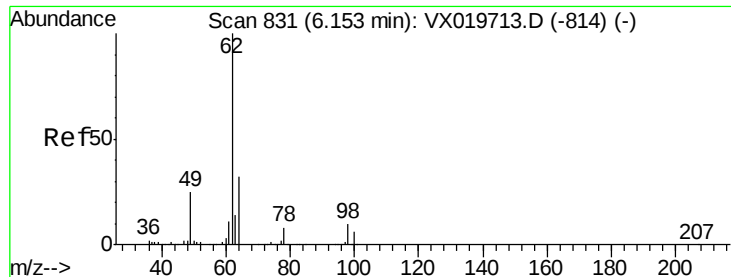
#39
Methylcyclohexane
Concen: 0.924 ug/l
RT: 7.18 min Scan# 1000
Delta R.T. -0.25 min
Lab File: VX019898.D
Acq: 12 Dec 2020 00:22

Tgt Ion: 83 Resp: 4961
Ion Ratio Lower Upper
83 100
55 0.0 58.9 88.3#
98 208.6 38.1 57.1#



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0





#42

1,2-Dichloroethane

Concen: 0.306 ug/l

RT: 6.16 min Scan# 832

Delta R.T. 0.01 min

Lab File: VX019898.D

Acq: 12 Dec 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

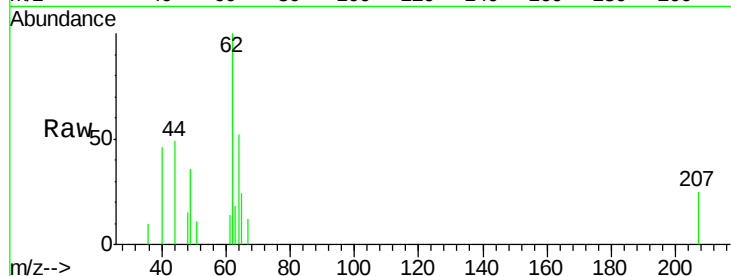
RE132D1-20201207

Tgt Ion: 62 Resp: 1459

Ion Ratio Lower Upper

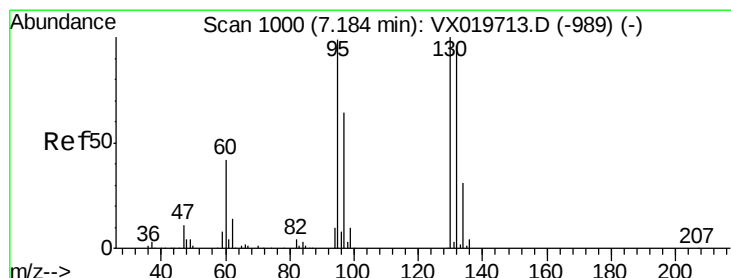
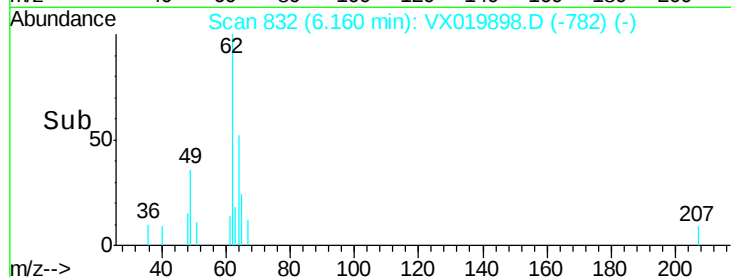
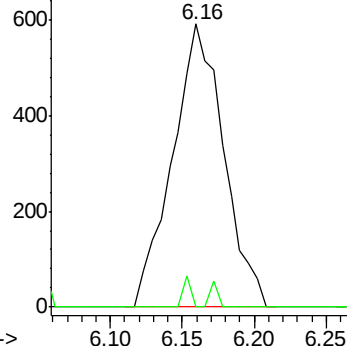
62 100

98 1.6 0.0 20.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#44

Trichloroethene

Concen: 117.035 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VX019898.D

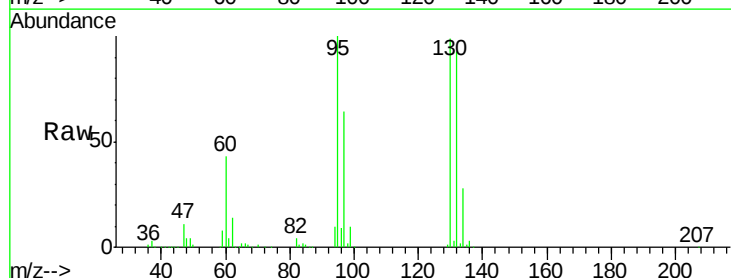
Acq: 12 Dec 2020 00:22

Tgt Ion: 130 Resp: 428602

Ion Ratio Lower Upper

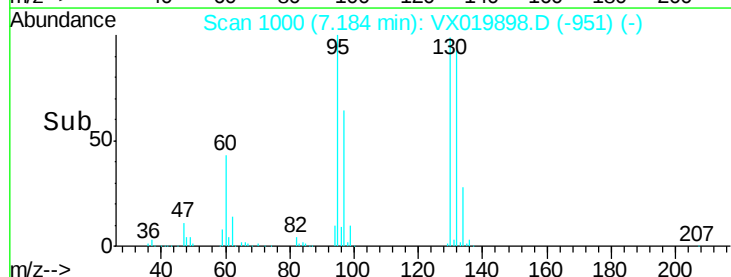
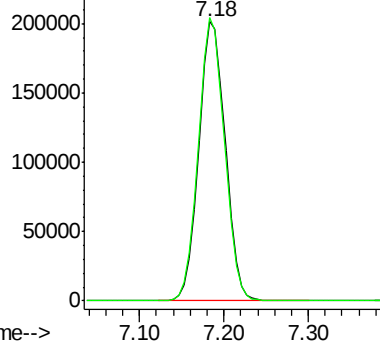
130 100

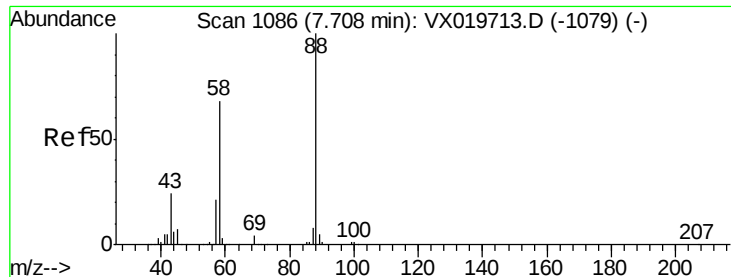
95 101.4 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

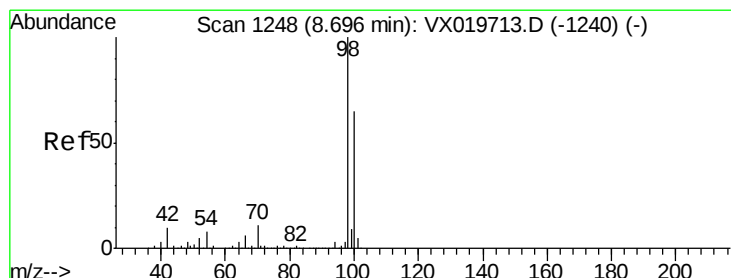
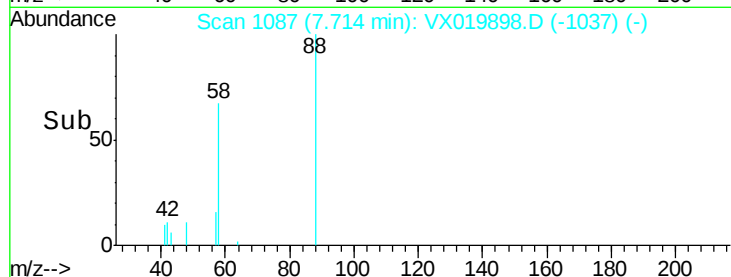
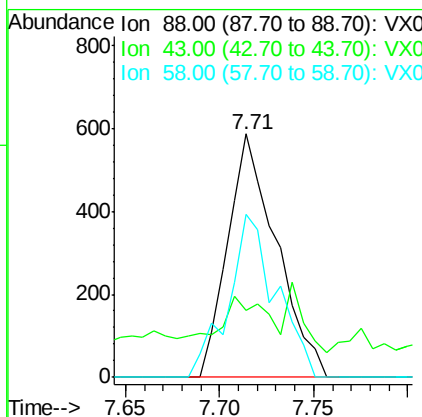
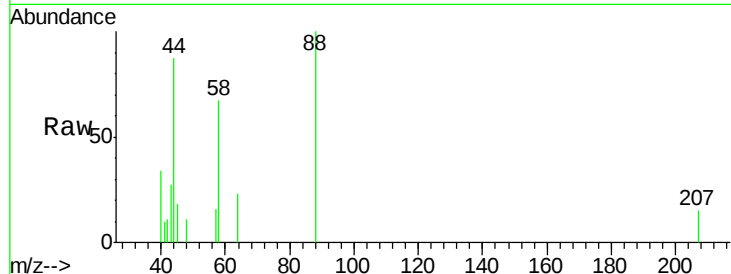




#49
1,4-Dioxane
Concen: 11.795 ug/l
RT: 7.71 min Scan# 1087
Delta R.T. 0.01 min
Lab File: VX019898.D
Acq: 12 Dec 2020 00:22

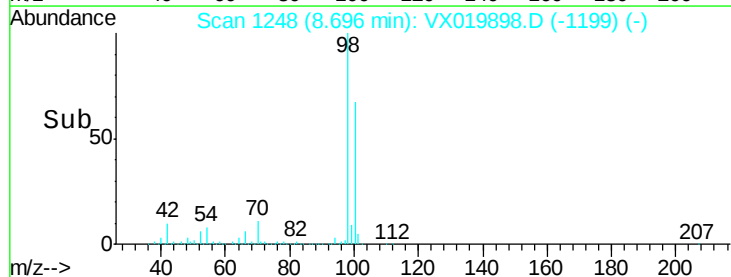
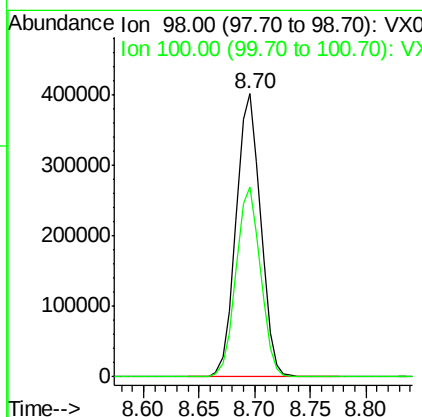
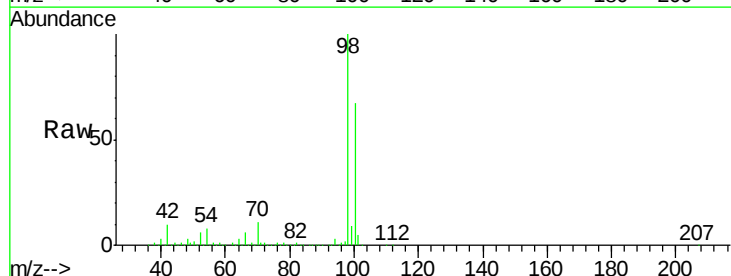
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20201207

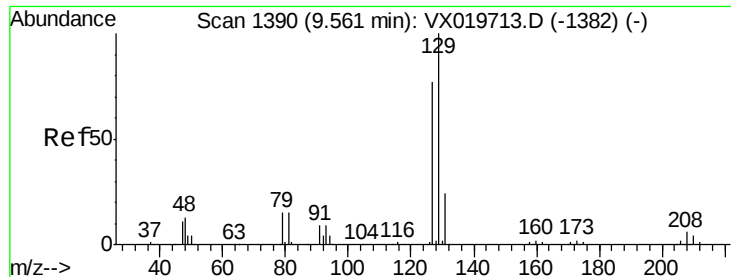
Tgt Ion: 88 Resp: 1054
Ion Ratio Lower Upper
88 100
43 17.4 23.2 34.8#
58 65.3 55.0 82.4



#50
Toluene-d8
Concen: 49.247 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019898.D
Acq: 12 Dec 2020 00:22

Tgt Ion: 98 Resp: 614421
Ion Ratio Lower Upper
98 100
100 66.6 51.9 77.9

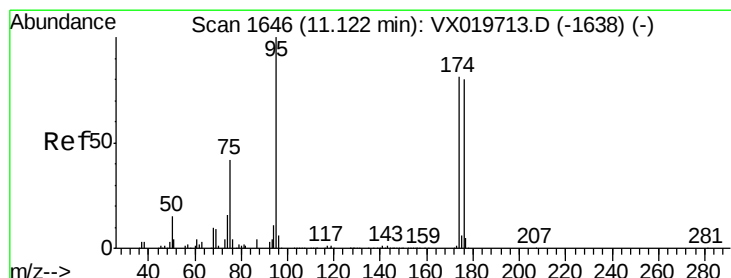
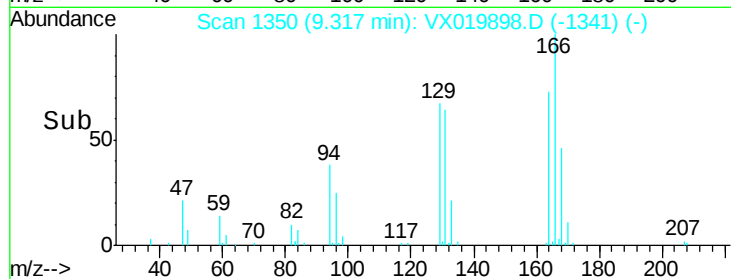
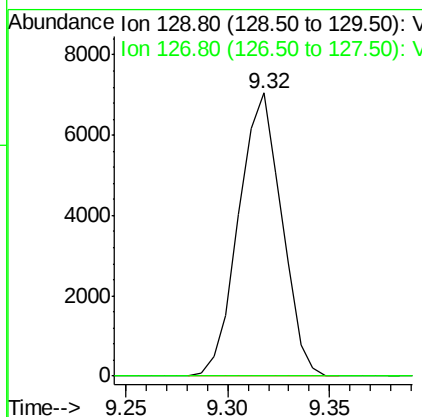
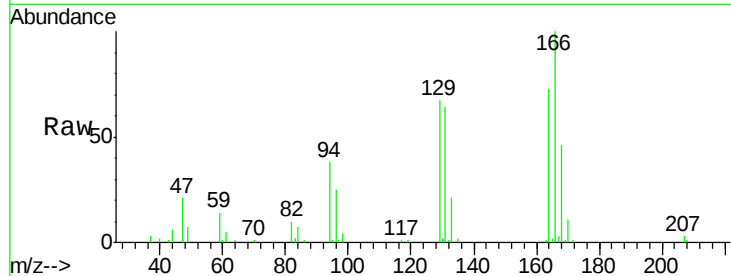




#60
 Dibromochloromethane
 Concen: 2.885 ug/l
 RT: 9.32 min Scan# 1350
 Delta R.T. -0.24 min
 Lab File: VX019898.D
 Acq: 12 Dec 2020 00:22

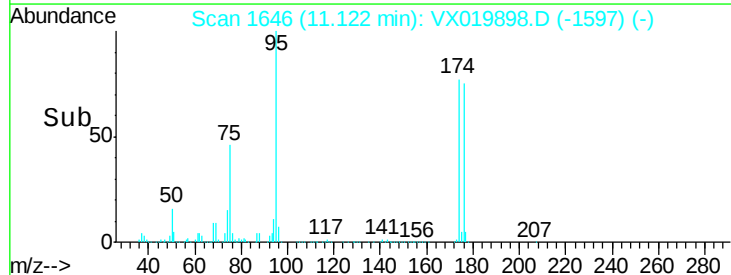
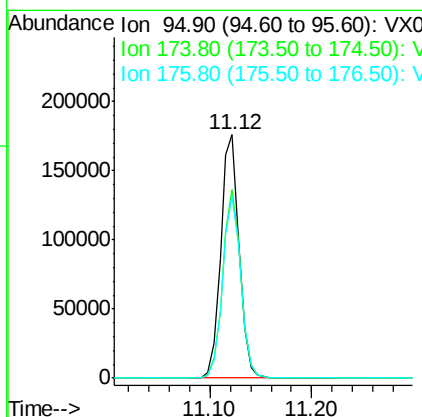
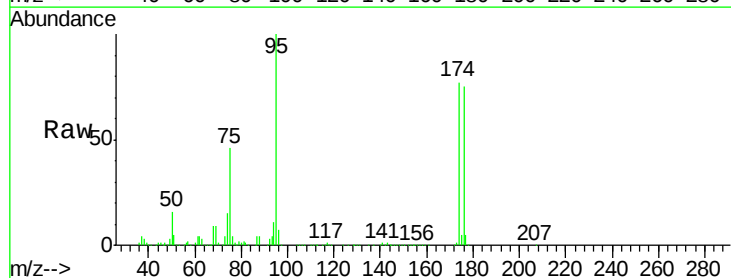
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D1-20201207

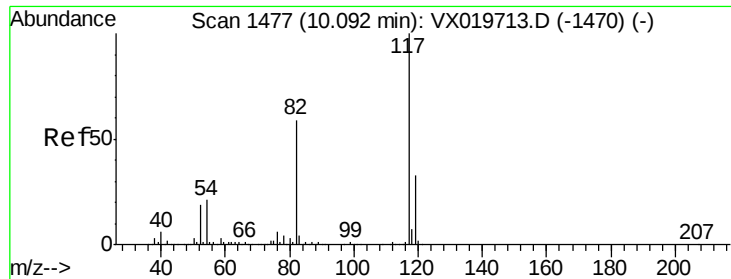
Tgt Ion:129 Resp: 10312
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.4 115.2#



#62
 4-Bromofluorobenzene
 Concen: 46.568 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.00 min
 Lab File: VX019898.D
 Acq: 12 Dec 2020 00:22

Tgt Ion: 95 Resp: 221135
 Ion Ratio Lower Upper
 95 100
 174 75.8 0.0 154.6
 176 74.0 0.0 155.8

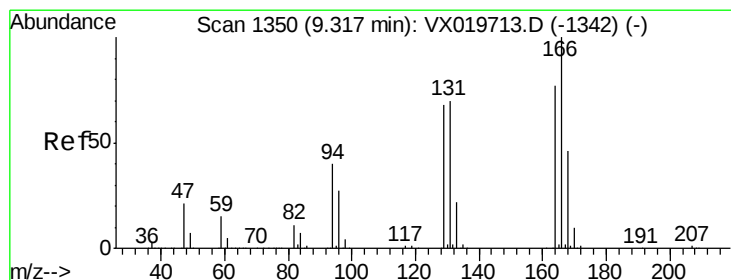
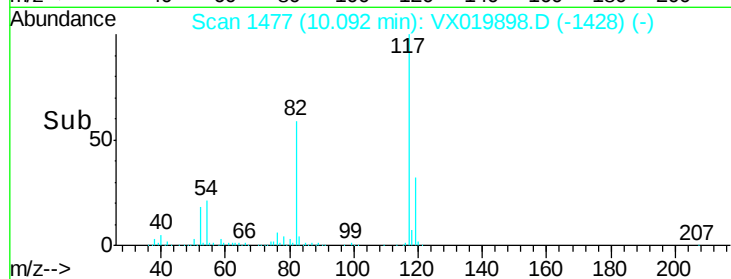
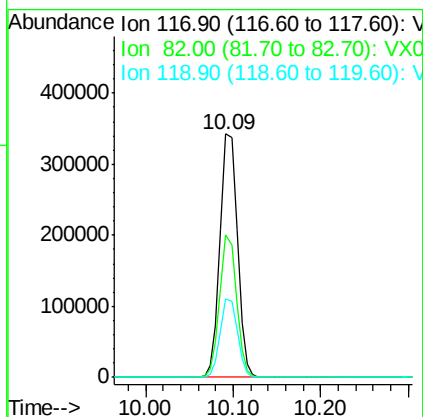
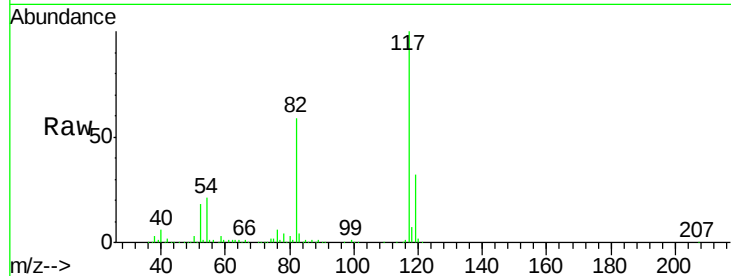




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VX019898.D
Acq: 12 Dec 2020 00:22

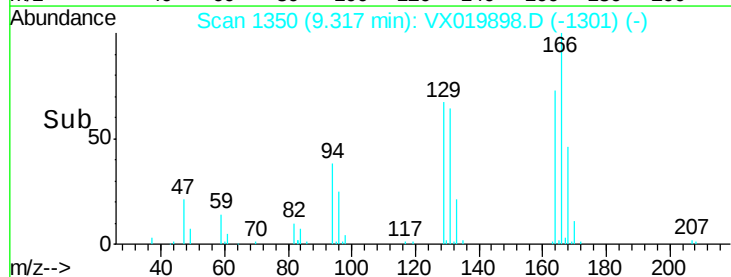
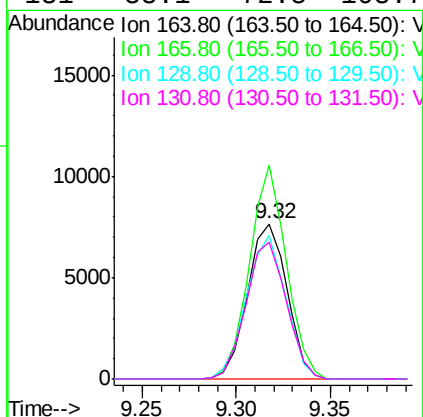
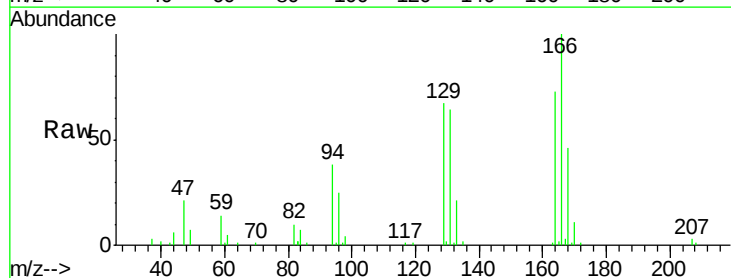
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20201207

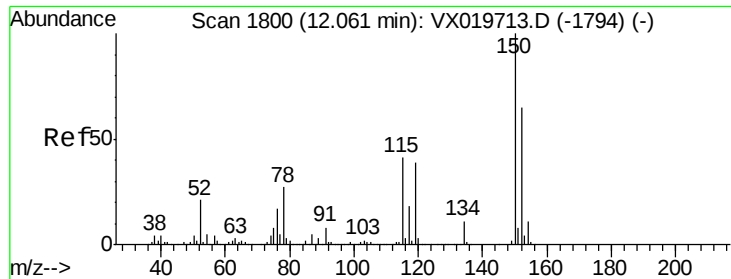
Tgt Ion:117 Resp: 473100
Ion Ratio Lower Upper
117 100
82 58.7 47.4 71.2
119 32.2 26.6 39.8



#64
Tetrachloroethene
Concen: 3.520 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX019898.D
Acq: 12 Dec 2020 00:22

Tgt Ion:164 Resp: 11167
Ion Ratio Lower Upper
164 100
166 137.3 103.4 155.2
129 91.9 70.8 106.2
131 88.1 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: VX019898.D

Acq: 12 Dec 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

RE132D1-20201207

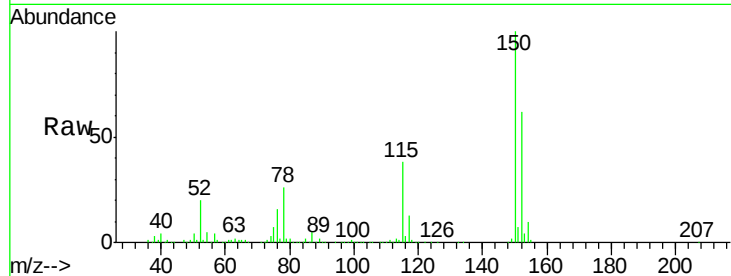
Tgt Ion:152 Resp: 205995

Ion Ratio Lower Upper

152 100

115 59.7 41.1 123.3

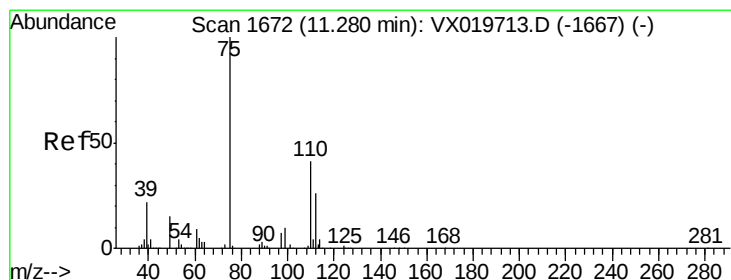
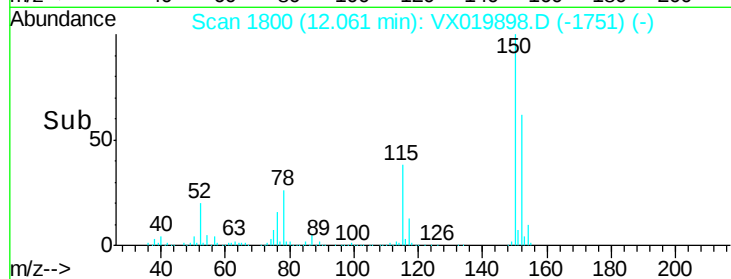
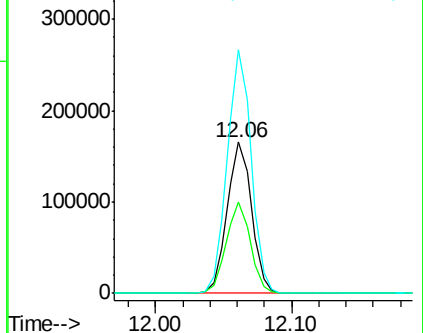
150 158.6 0.0 349.0



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: 22.768 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019898.D

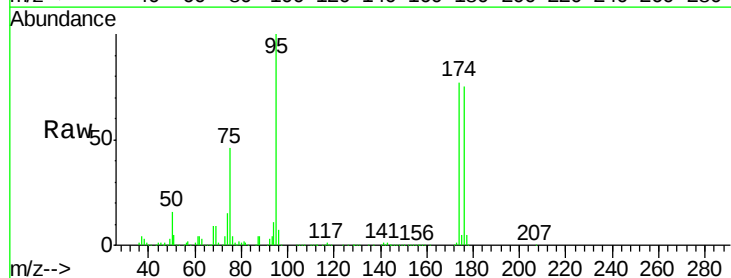
Acq: 12 Dec 2020 00:22

Tgt Ion: 75 Resp: 105192

Ion Ratio Lower Upper

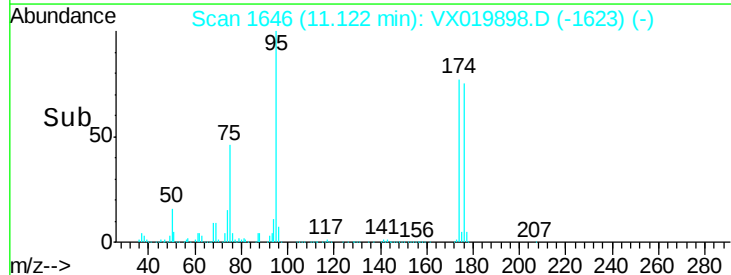
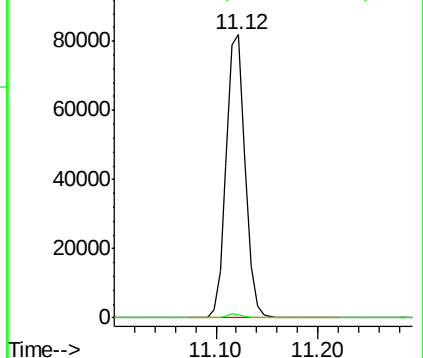
75 100

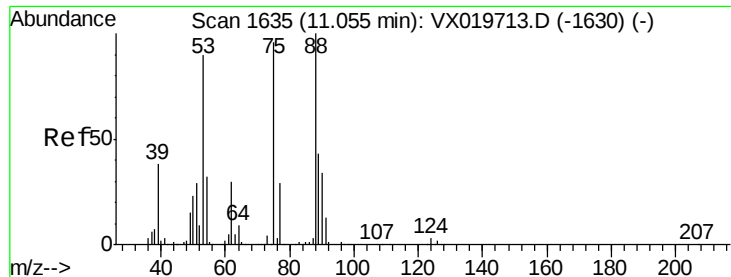
77 1.4 19.1 57.5#



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: 65.819 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019898.D

Acq: 12 Dec 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

RE132D1-20201207

Tgt Ion: 75 Resp: 105192

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

