

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX121219\
 Data File : VX013982.D
 Acq On : 12 Dec 2019 17:55
 Operator : JC/SP
 Sample : K6252-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D3-20191209

Quant Time: Dec 13 00:53:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

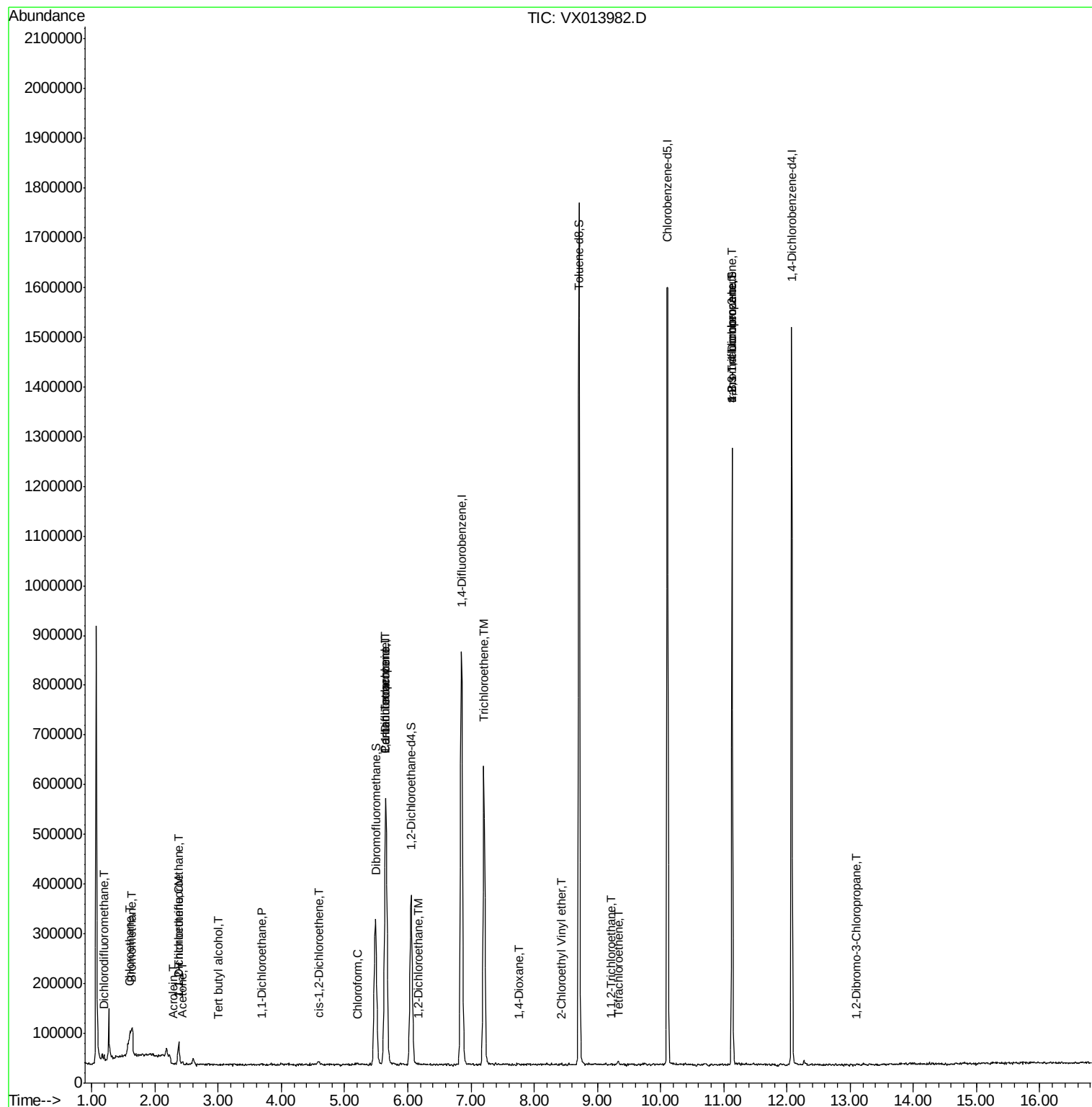
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	562552	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	865686	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	764662	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	313295	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	314737	48.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.40%	
35) Dibromofluoromethane	5.49	113	254396	47.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.06%	
50) Toluene-d8	8.71	98	1022452	49.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.08%	
62) 4-Bromofluorobenzene	11.13	95	325266	43.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.52%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.19	85	4520	0.722	ug/l	94
5) Bromomethane	1.63	94	1420	0.267	ug/l #	62
6) Chloroethane	1.60	64	18609	4.135	ug/l #	50
9) 1,1,2-Trichlorotrifluoroet	2.37	101	17166	3.201	ug/l	89
11) Tert butyl alcohol	3.01	59	591	0.367	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	2178	0.407	ug/l	91
13) Acrolein	2.28	56	307	6.282	ug/l #	15
16) Acetone	2.43	43	5904	1.831	ug/l #	77
24) 1,1-Dichloroethane	3.68	63	2906	0.284	ug/l #	75
27) cis-1,2-Dichloroethene	4.58	96	4734	0.707	ug/l	80
30) Chloroform	5.20	83	3621	0.349	ug/l #	62
36) 1,1-Dichloropropene	5.65	75	36139	4.599	ug/l #	54
38) Carbon Tetrachloride	5.65	117	49544	6.837	ug/l #	16
42) 1,2-Dichloroethane	6.17	62	2024	0.248	ug/l	93
44) Trichloroethene	7.20	130	247277	37.646	ug/l	97
49) 1,4-Dioxane	7.75	88	2366	14.989	ug/l #	74
55) 1,1,2-Trichloroethane	9.21	97	1464	0.244	ug/l #	77
58) 2-Chloroethyl Vinyl ether	8.43	63	886	0.235	ug/l	98
64) Tetrachloroethene	9.34	164	1708	0.300	ug/l	87
76) 1,2,3-Trichloropropane	11.13	75	159050	22.571	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	159050	61.751	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.09	75	514	0.310	ug/l	73

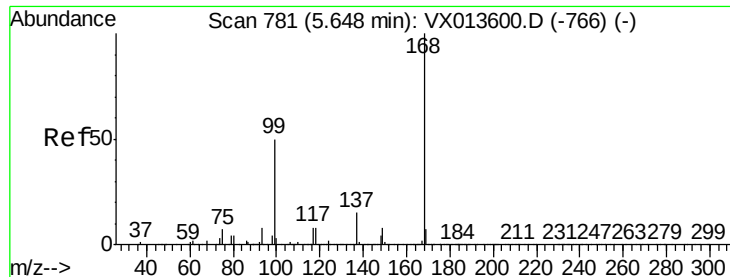
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121219\
Data File : VX013982.D
Acq On : 12 Dec 2019 17:55
Operator : JC/SP
Sample : K6252-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D3-20191209

Quant Time: Dec 13 00:53:55 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

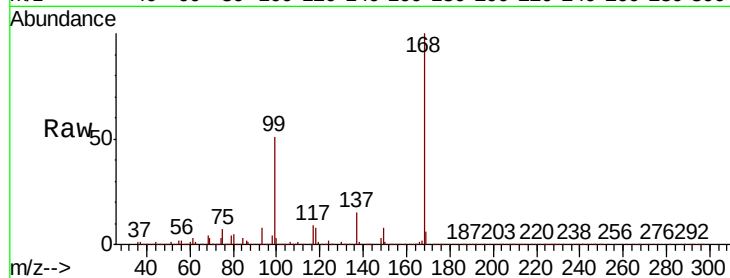
RE132D3-20191209

Tot Ion:168 Resp: 562552

Ion Ratio Lower Upper

168 100

99 50.8 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

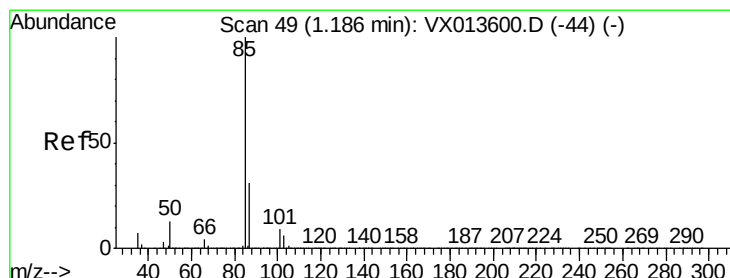
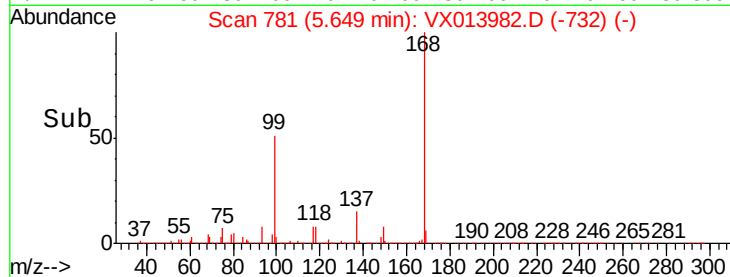
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.722 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013982.D

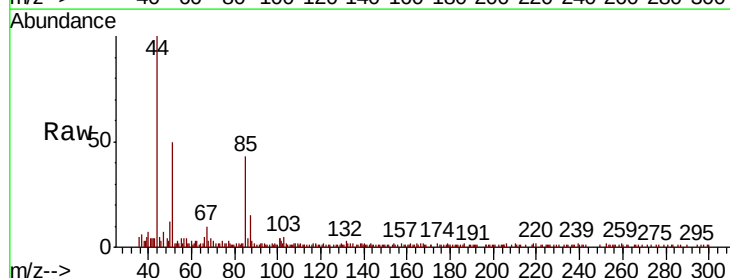
Acq: 12 Dec 2019 17:55

Tgt Ion: 85 Resp: 4520

Ion Ratio Lower Upper

85 100

87 28.4 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

4000

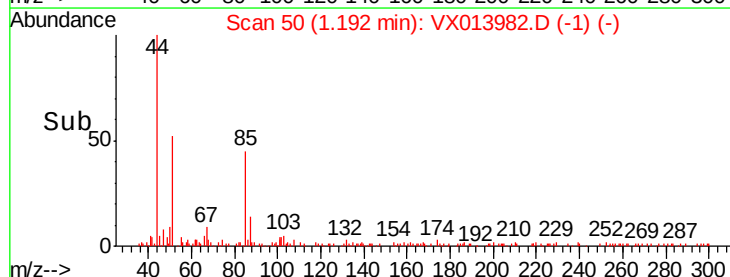
3000

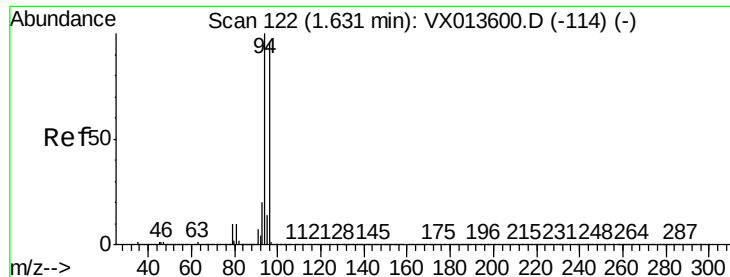
2000

1000

0

Time-->





#5

Bromomethane

Concen: 0.267 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

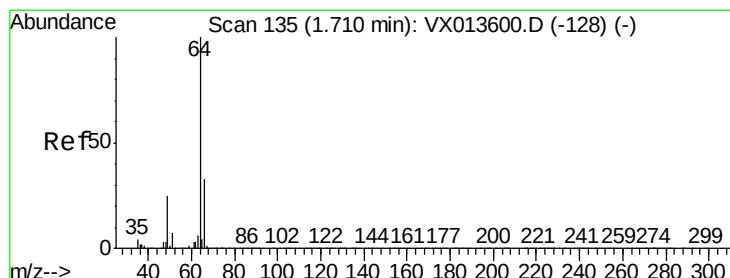
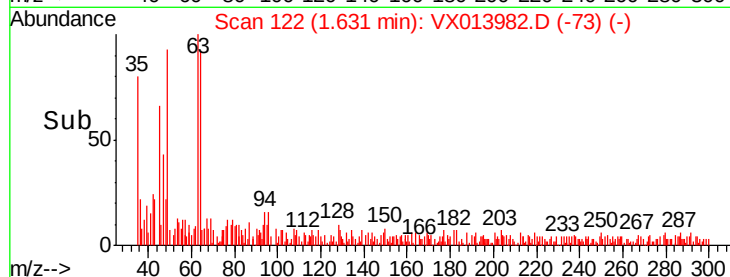
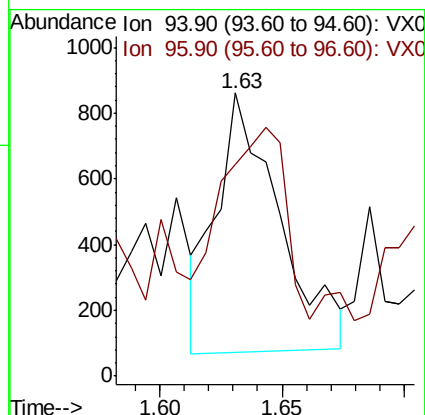
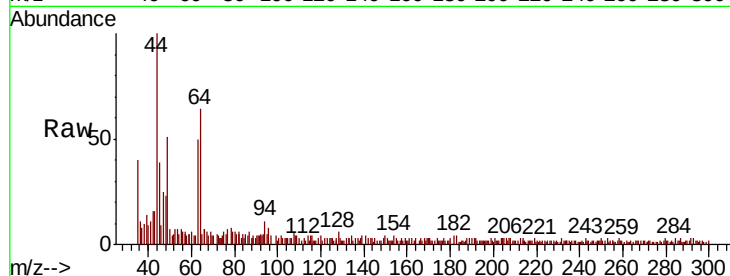
RE132D3-20191209

Tot Ion: 94 Resp: 1420

Ion Ratio Lower Upper

94 100

96 59.3 77.0 115.4#



#6

Chloroethane

Concen: 4.135 ug/l

RT: 1.60 min Scan# 117

Delta R.T. -0.11 min

Lab File: VX013982.D

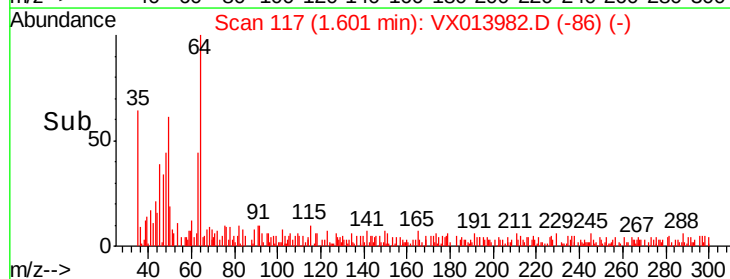
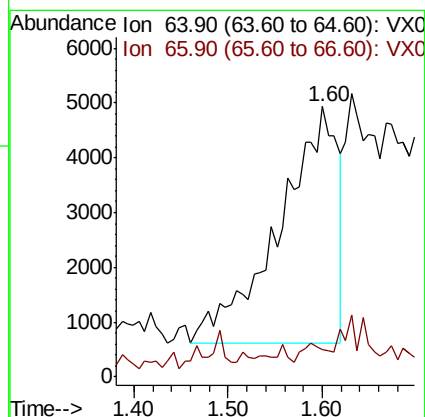
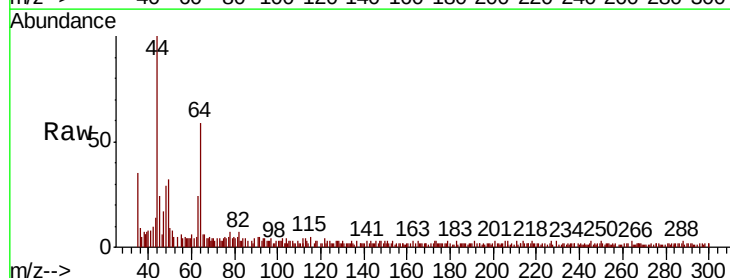
Acq: 12 Dec 2019 17:55

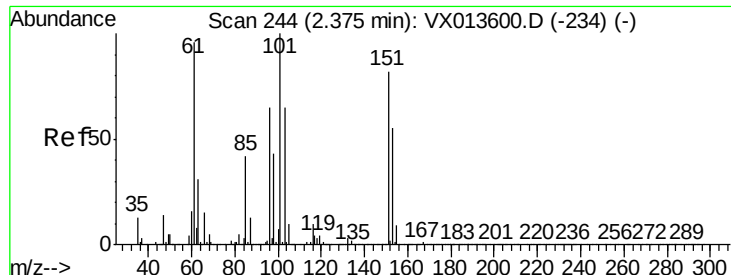
Tgt Ion: 64 Resp: 18609

Ion Ratio Lower Upper

64 100

66 4.8 26.7 40.1#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.201 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.01 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20191209

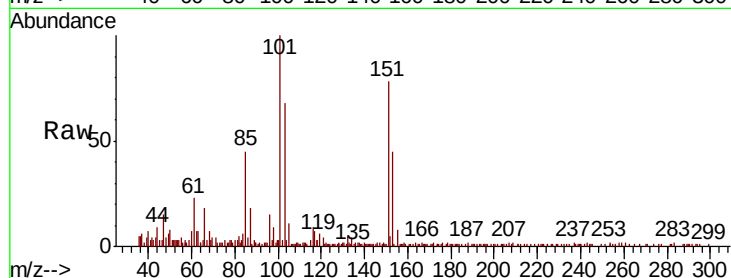
Tot Ion:101 Resp: 17166

Ion Ratio Lower Upper

101 100

85 46.3 33.9 50.9

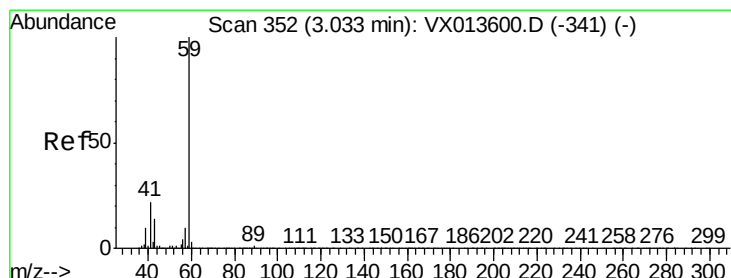
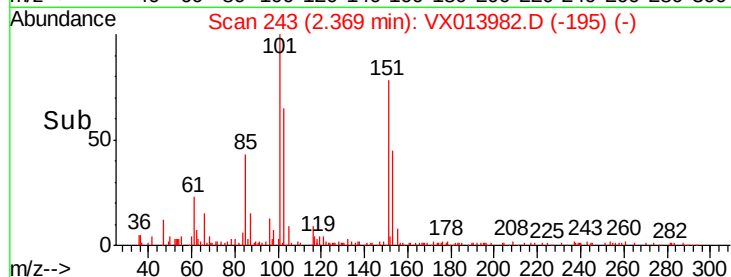
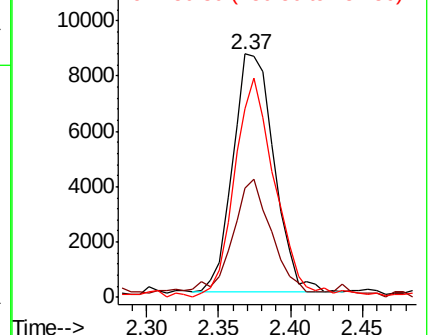
151 92.1 64.2 96.2



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: 0.367 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX013982.D

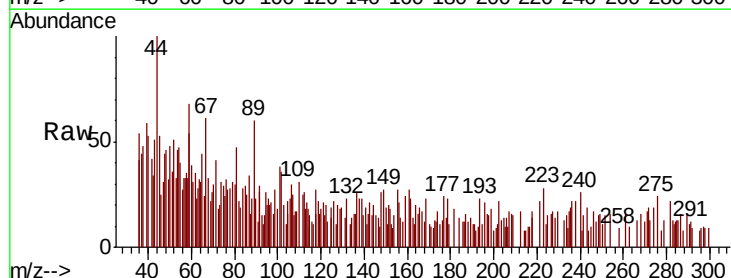
Acq: 12 Dec 2019 17:55

Tgt Ion: 59 Resp: 591

Ion Ratio Lower Upper

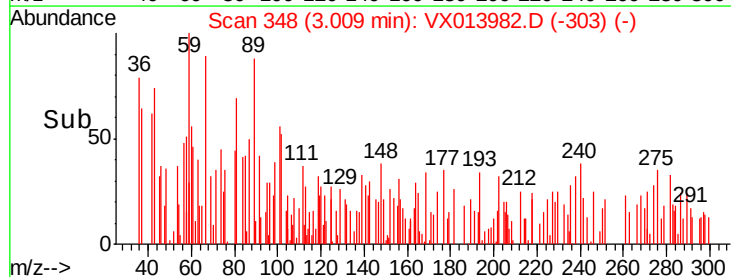
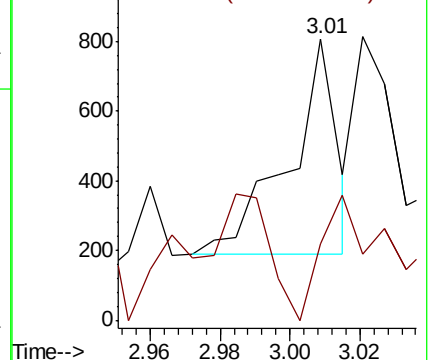
59 100

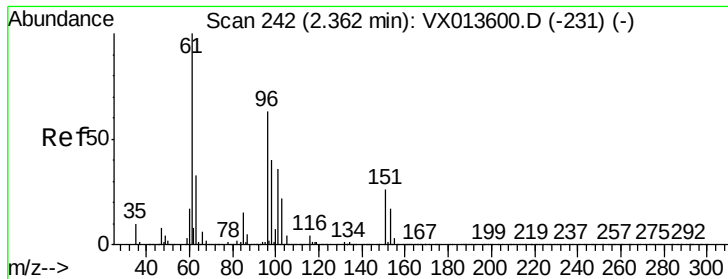
57 72.8 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.407 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20191209

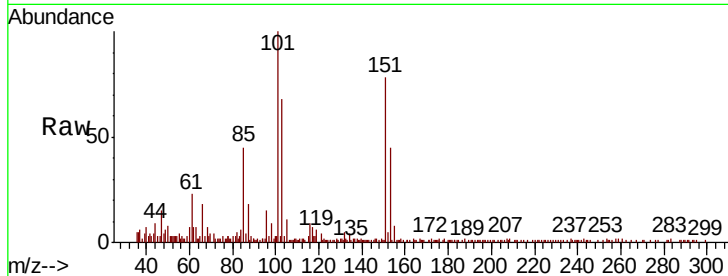
Tot Ion: 96 Resp: 2178

Ion Ratio Lower Upper

96 100

61 148.9 126.6 190.0

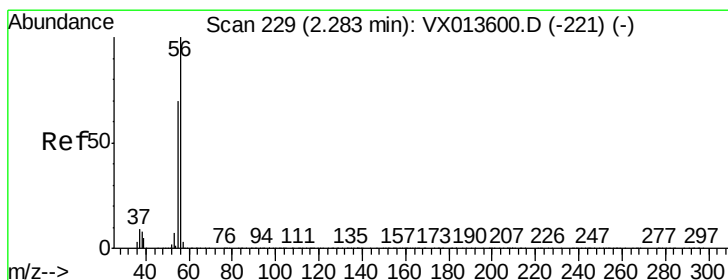
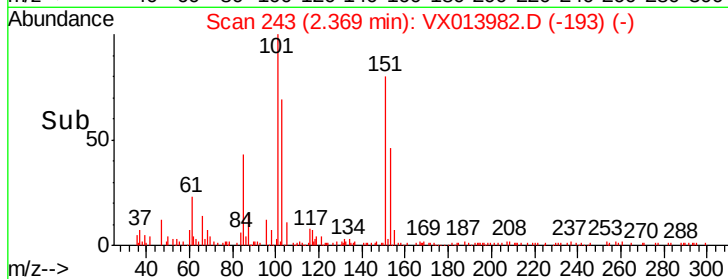
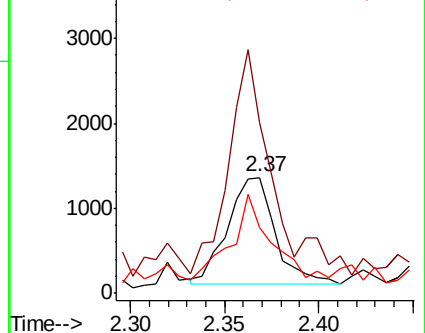
98 51.8 50.6 76.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 6.282 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX013982.D

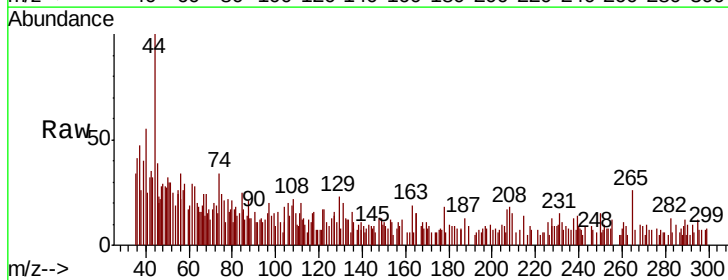
Acq: 12 Dec 2019 17:55

Tgt Ion: 56 Resp: 307

Ion Ratio Lower Upper

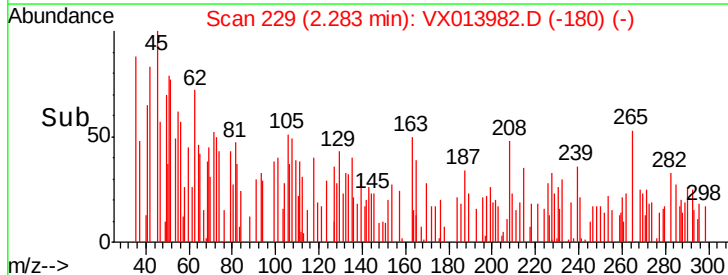
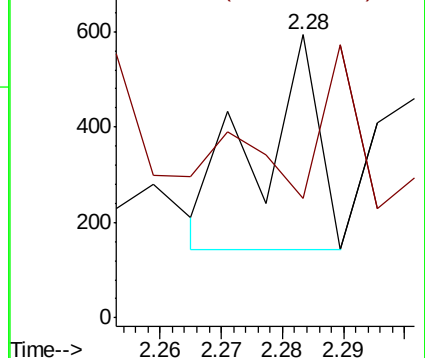
56 100

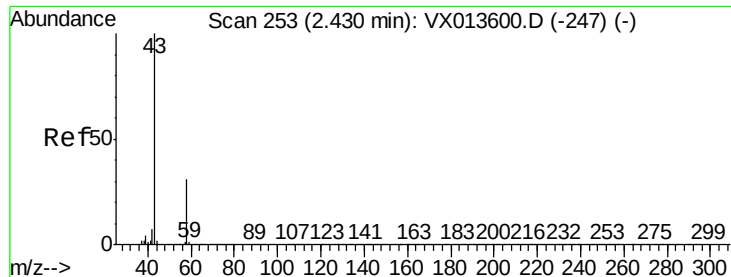
55 0.0 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.831 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

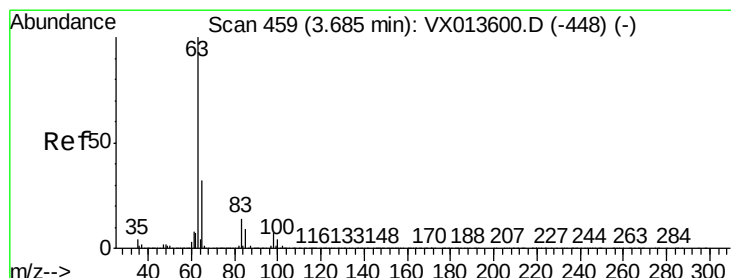
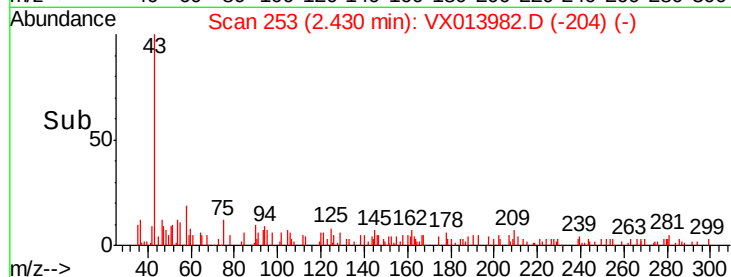
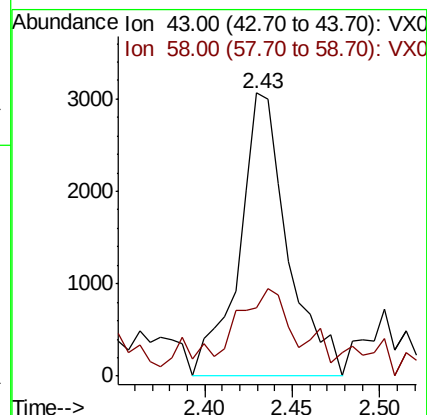
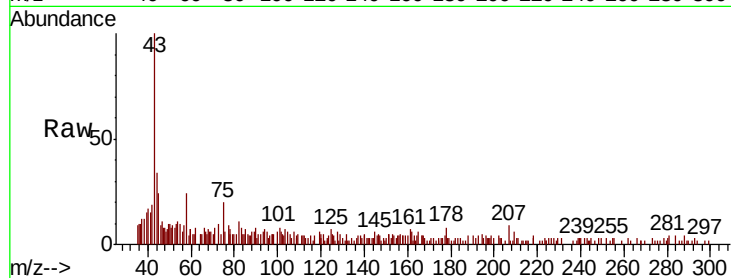
RE132D3-20191209

Tot Ion: 43 Resp: 5904

Ion Ratio Lower Upper

43 100

58 18.2 24.6 36.8#



#24

1,1-Dichloroethane

Concen: 0.284 ug/l

RT: 3.68 min Scan# 458

Delta R.T. -0.01 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

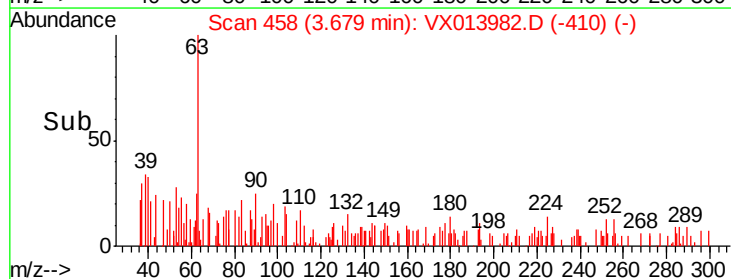
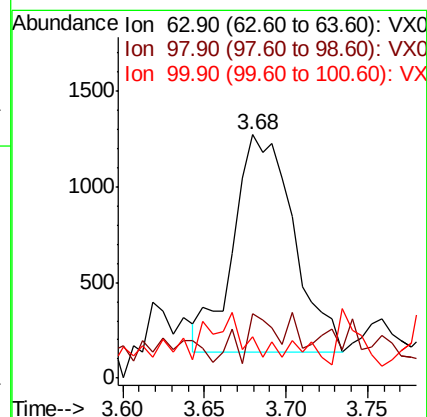
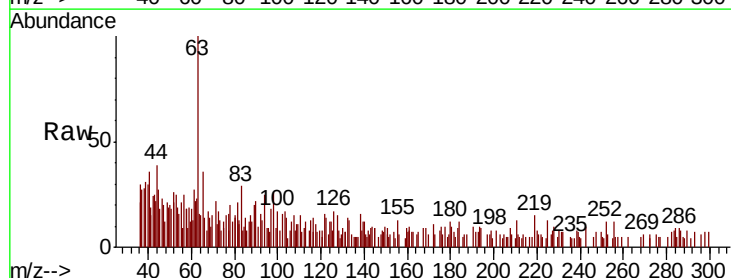
Tgt Ion: 63 Resp: 2906

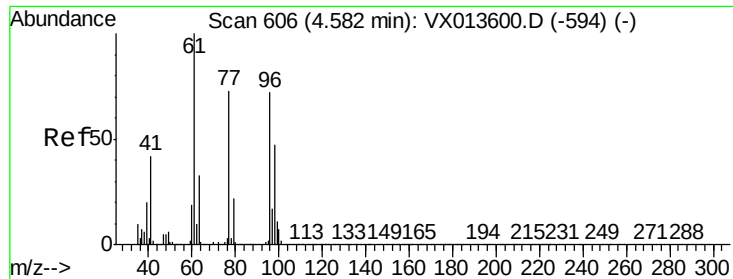
Ion Ratio Lower Upper

63 100

98 16.7 3.5 10.4#

100 10.5 2.1 6.3#



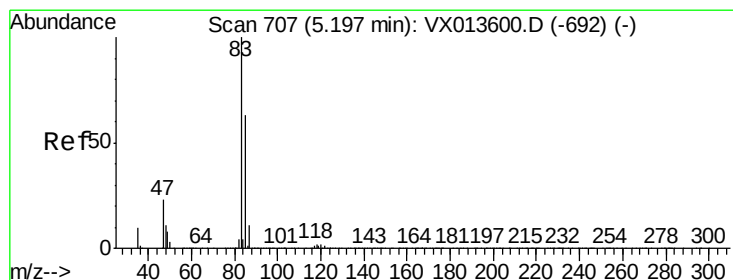
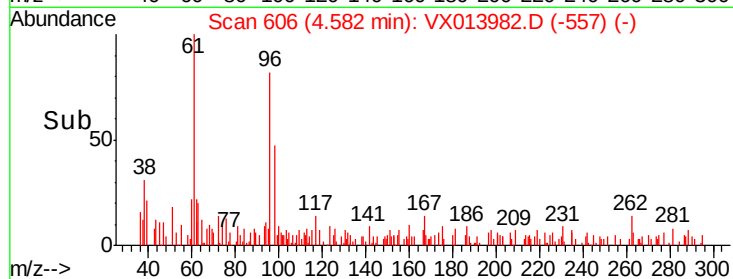
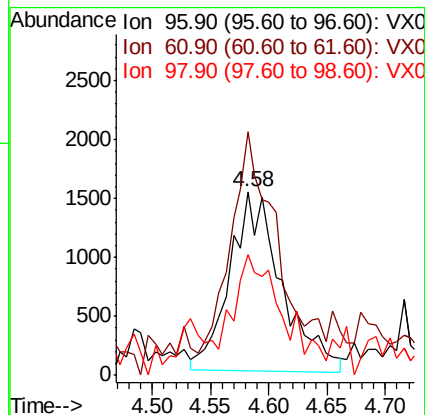
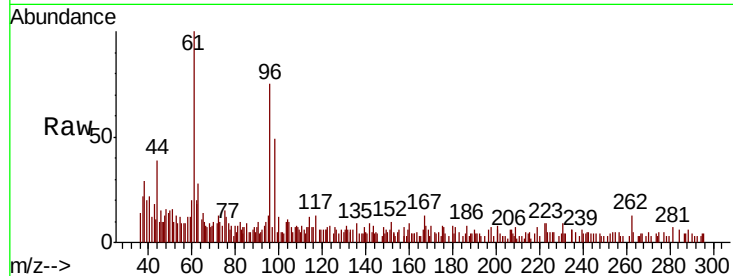


#27

cis-1,2-Dichloroethene
Concen: 0.707 ug/l
RT: 4.58 min Scan# 606
Delta R.T. 0.00 min
Lab File: VX013982.D
Acq: 12 Dec 2019 17:55

Instrument :
MSVOA_X
ClientSampleId :
RE132D3-20191209

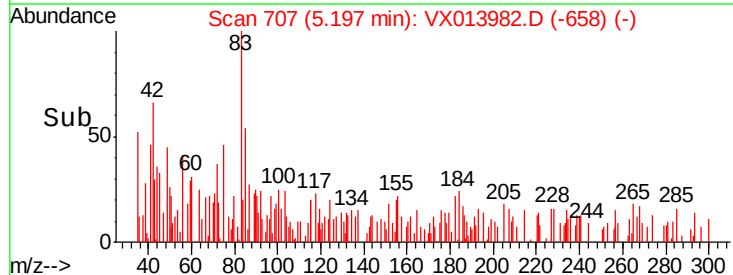
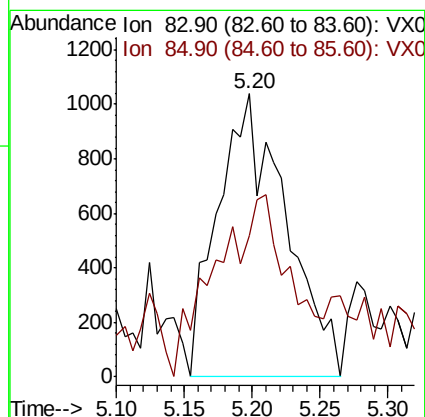
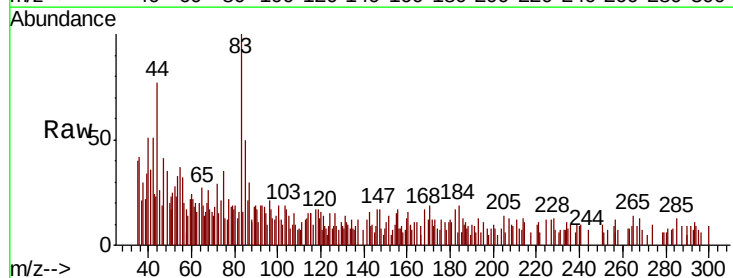
Tot Ion: 96 Resp: 4734
Ion Ratio Lower Upper
96 100
61 117.1 0.0 286.4
98 50.5 0.0 127.4

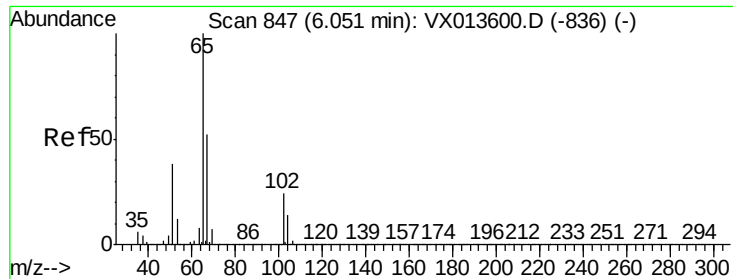


#30

Chloroform
Concen: 0.349 ug/l
RT: 5.20 min Scan# 707
Delta R.T. 0.00 min
Lab File: VX013982.D
Acq: 12 Dec 2019 17:55

Tgt Ion: 83 Resp: 3621
Ion Ratio Lower Upper
83 100
85 33.1 50.2 75.4#

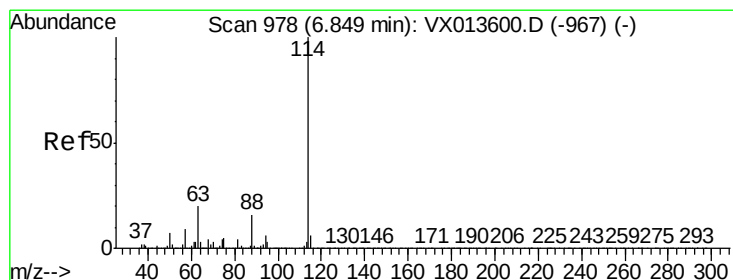
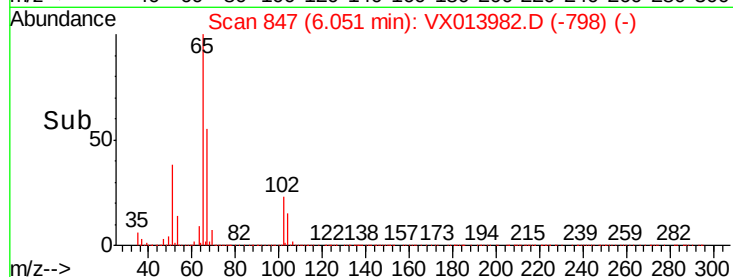
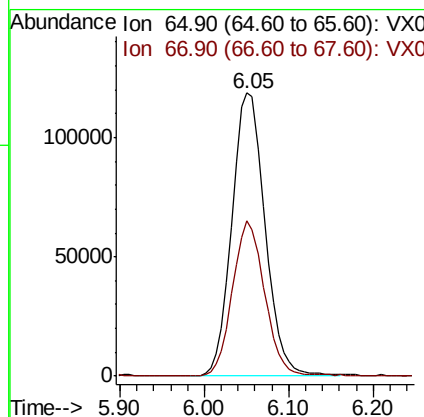
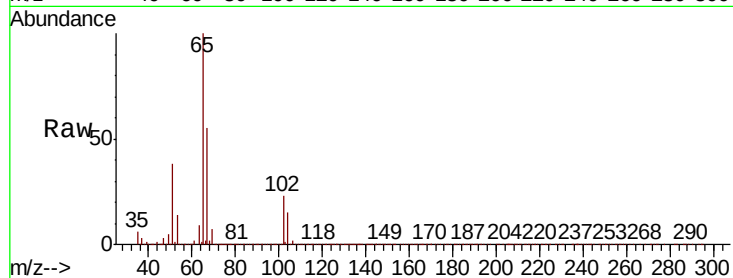




#33
 1,2-Dichloroethane-d4
 Concen: 48.199 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX013982.D
 Acq: 12 Dec 2019 17:55

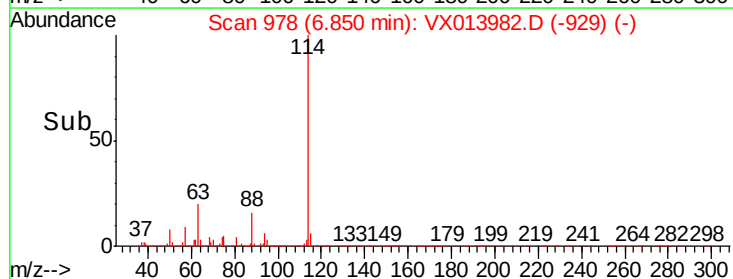
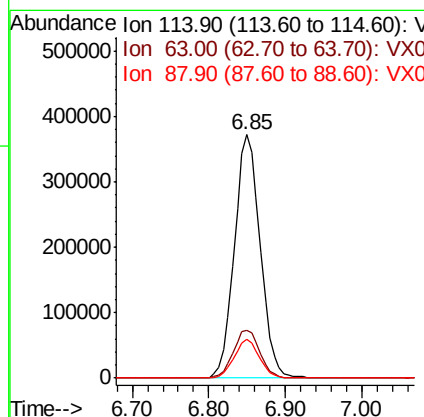
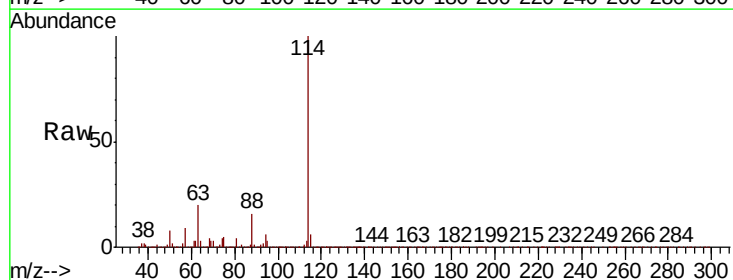
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D3-20191209

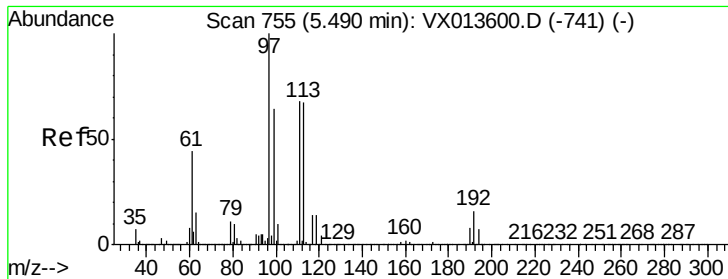
Tot Ion: 65 Resp: 314737
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013982.D
 Acq: 12 Dec 2019 17:55

Tgt Ion: 114 Resp: 865686
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.6
 88 15.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 47.535 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20191209

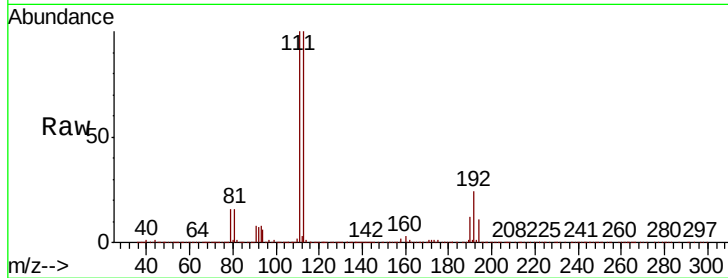
Tot Ion:113 Resp: 254396

Ion Ratio Lower Upper

113 100

111 103.8 83.6 125.4

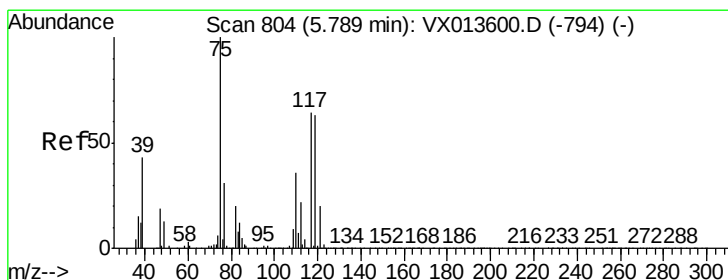
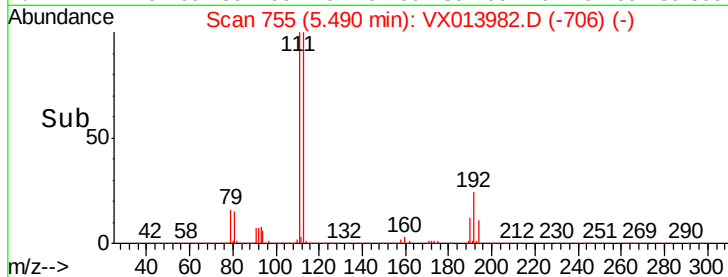
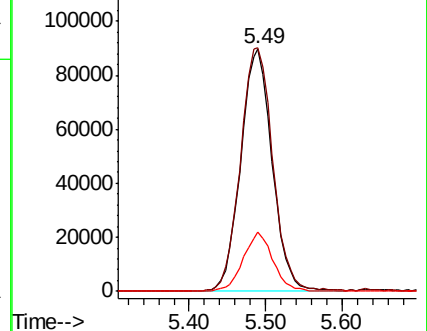
192 22.9 19.2 28.8



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: 4.599 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

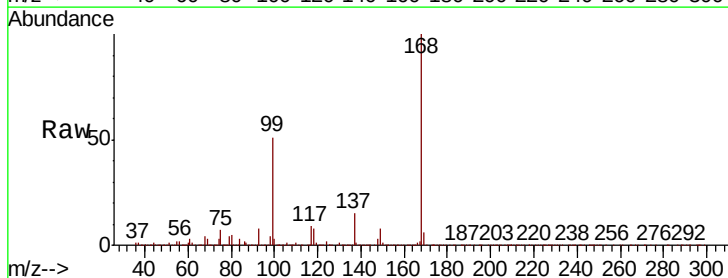
Tgt Ion: 75 Resp: 36139

Ion Ratio Lower Upper

75 100

110 12.8 18.1 54.1#

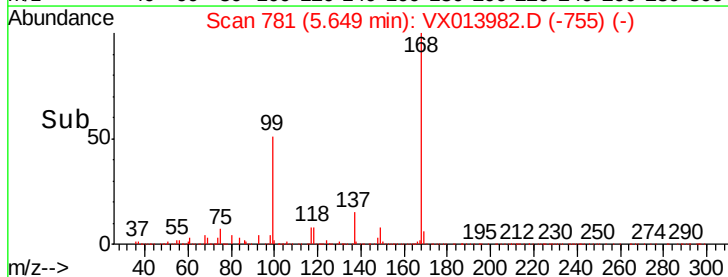
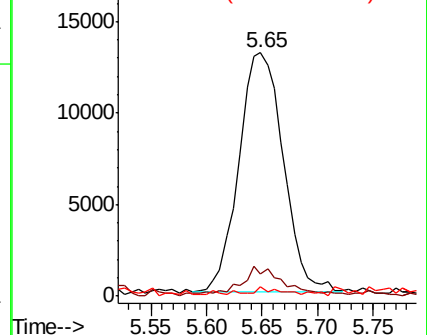
77 1.1 24.5 36.7#

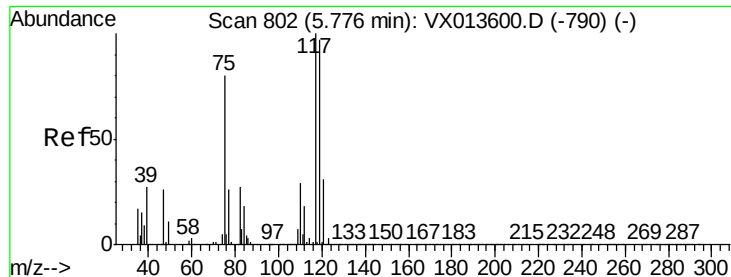


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.837 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20191209

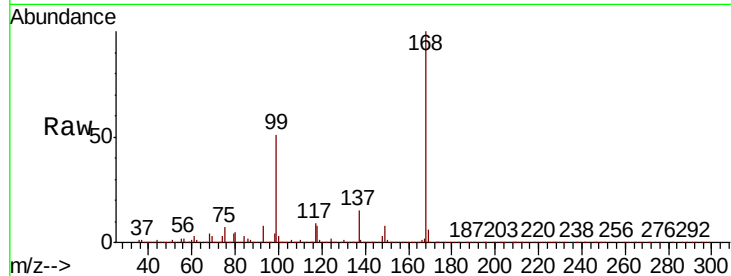
Tot Ion:117 Resp: 49544

Ion Ratio Lower Upper

117 100

119 5.7 77.5 116.3#

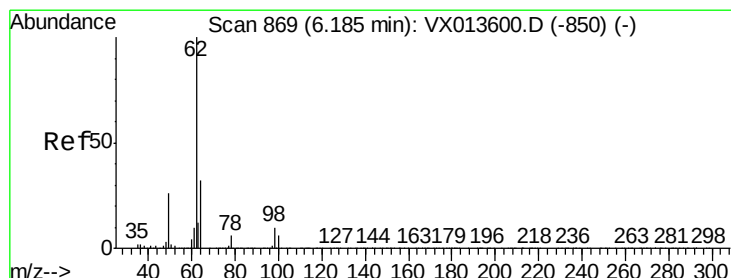
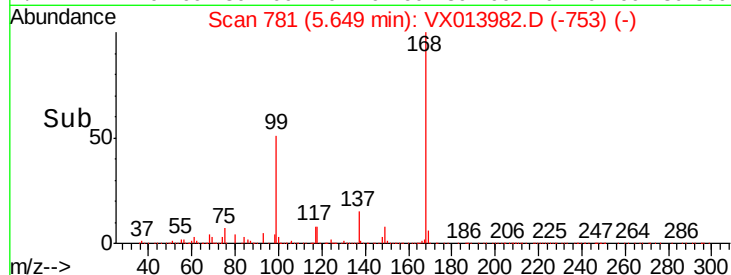
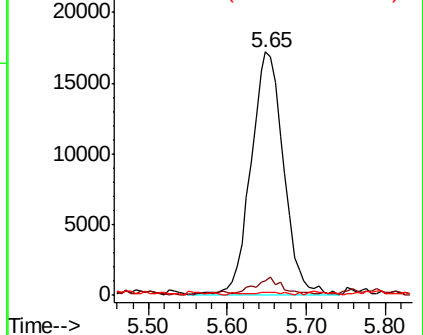
121 0.3 25.0 37.6#



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



#42

1,2-Dichloroethane

Concen: 0.248 ug/l

RT: 6.17 min Scan# 867

Delta R.T. -0.01 min

Lab File: VX013982.D

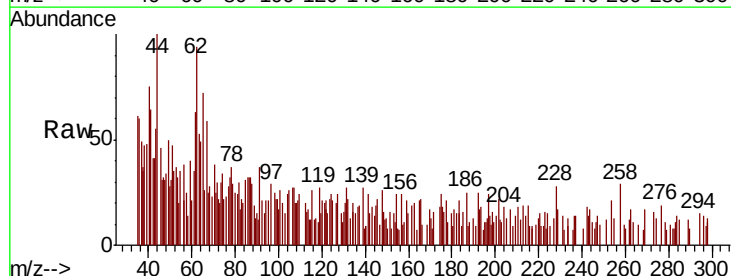
Acq: 12 Dec 2019 17:55

Tgt Ion: 62 Resp: 2024

Ion Ratio Lower Upper

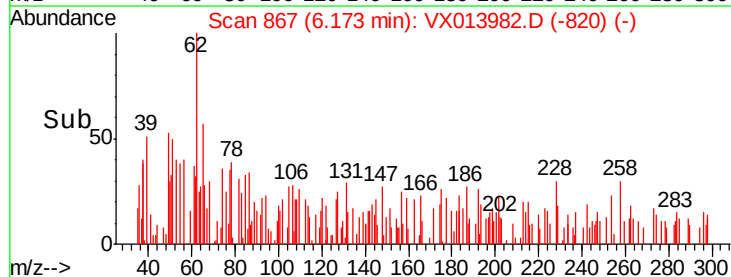
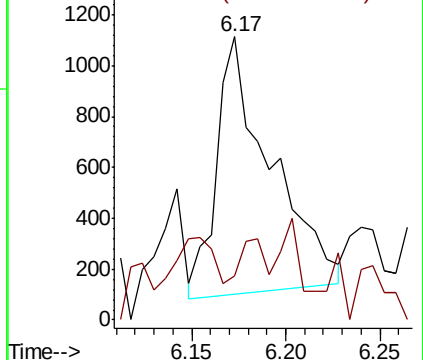
62 100

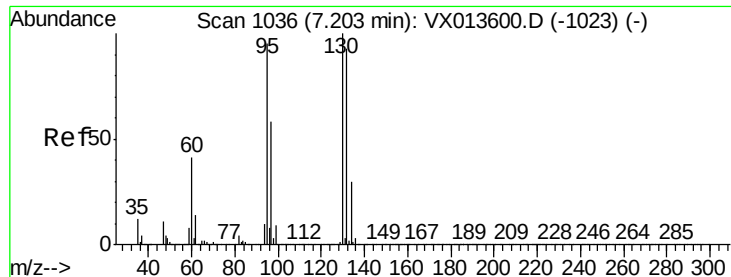
98 7.6 0.0 20.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 37.646 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

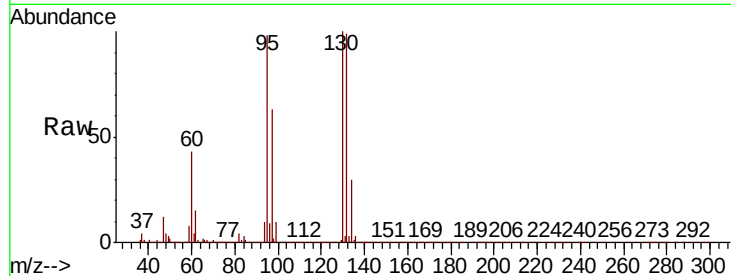
RE132D3-20191209

Tot Ion:130 Resp: 247277

Ion Ratio Lower Upper

130 100

95 98.0 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

120000

100000

80000

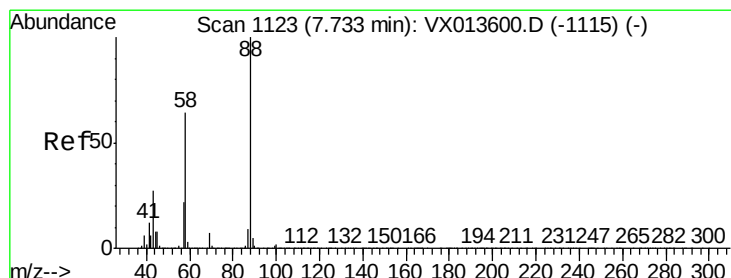
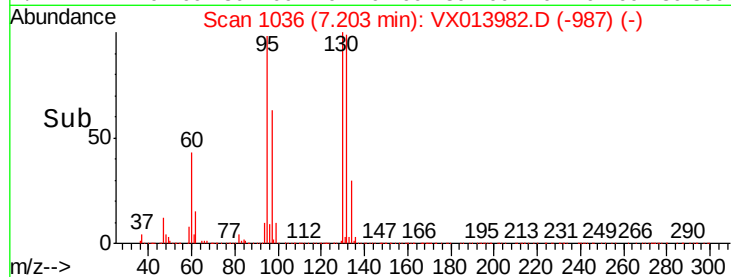
60000

40000

20000

0

Time-->



#49

1,4-Dioxane

Concen: 14.989 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

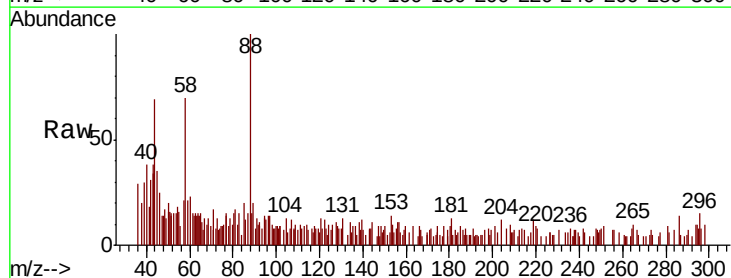
Tgt Ion: 88 Resp: 2366

Ion Ratio Lower Upper

88 100

43 27.3 25.8 38.6

58 95.7 54.6 82.0#



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

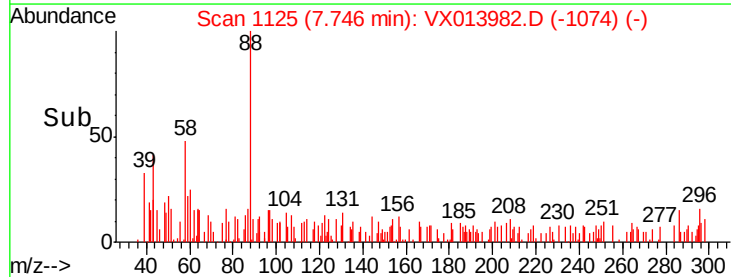
1500

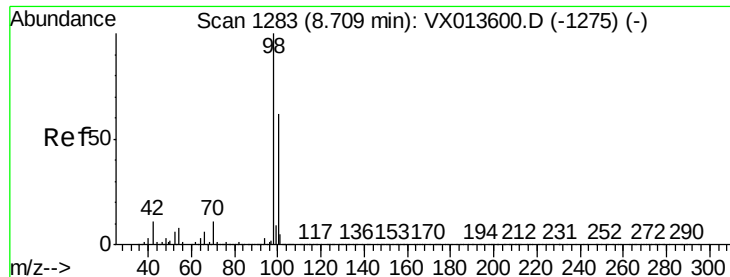
1000

500

0

Time-->





#50

Toluene-d8

Concen: 49.036 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

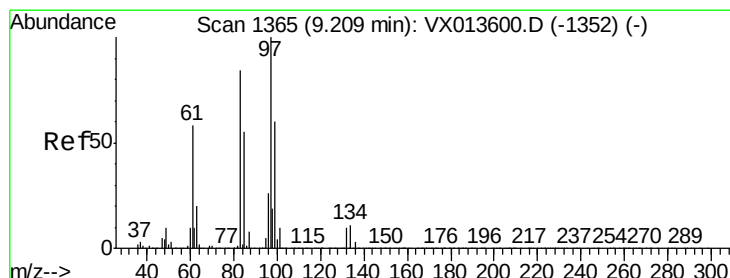
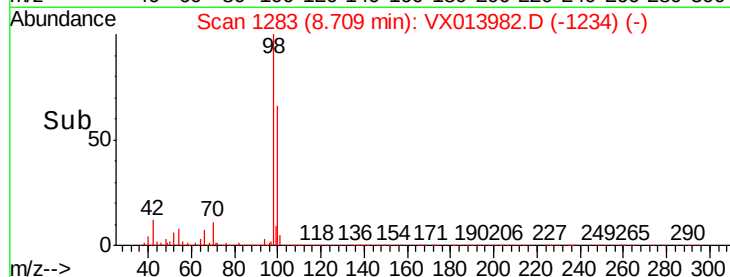
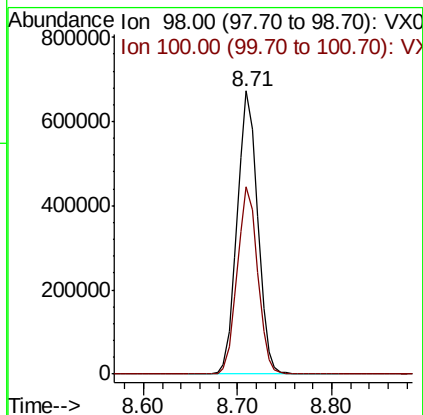
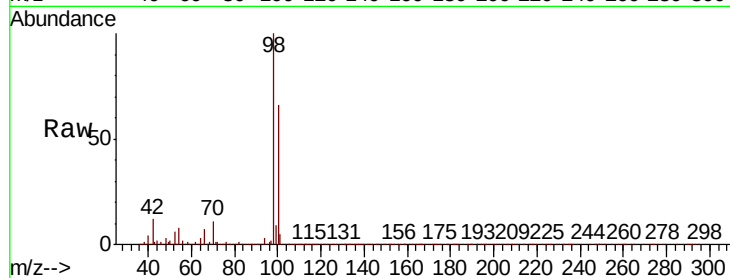
RE132D3-20191209

Tot Ion: 98 Resp: 1022452

Ion Ratio Lower Upper

98 100

100 65.7 53.1 79.7



#55

1,1,2-Trichloroethane

Concen: 0.244 ug/l

RT: 9.21 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

Tgt Ion: 97 Resp: 1464

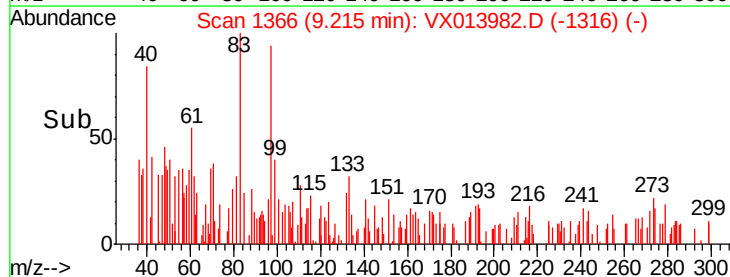
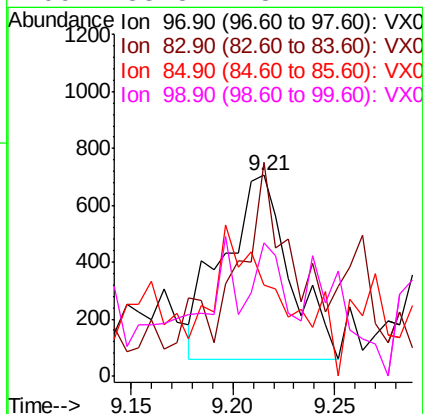
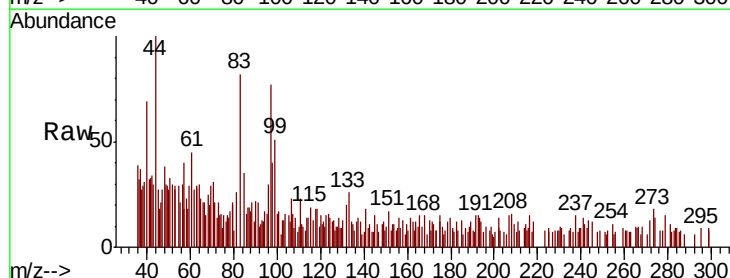
Ion Ratio Lower Upper

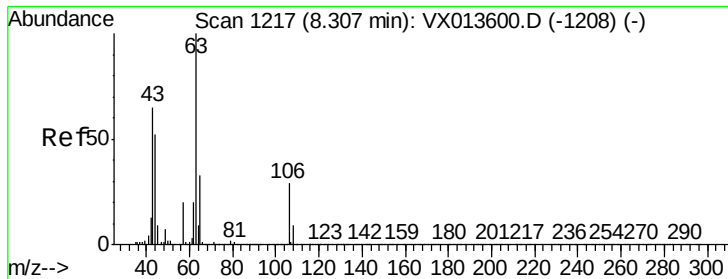
97 100

83 73.6 67.3 100.9

85 29.4 43.6 65.4#

99 38.8 48.2 72.4#

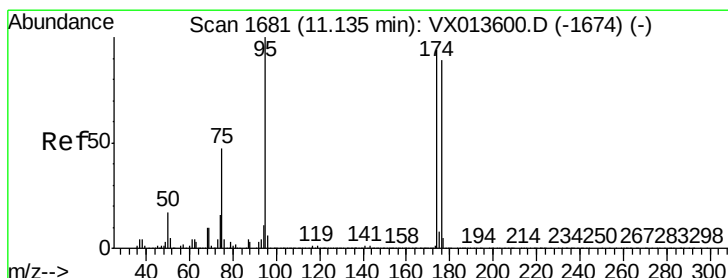
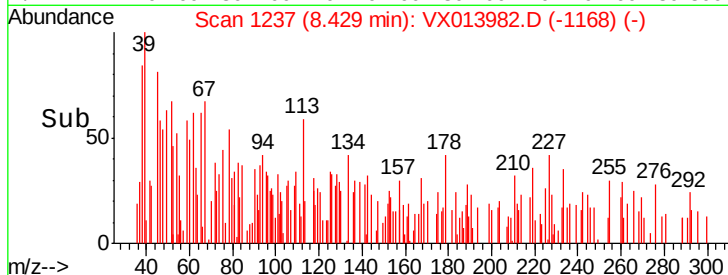
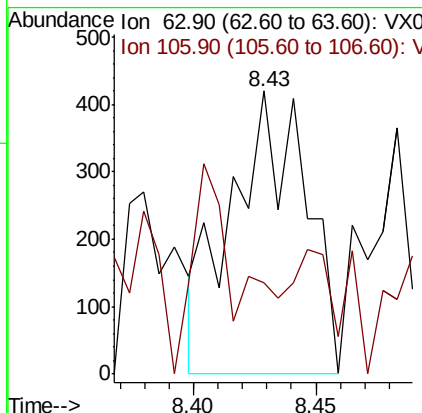
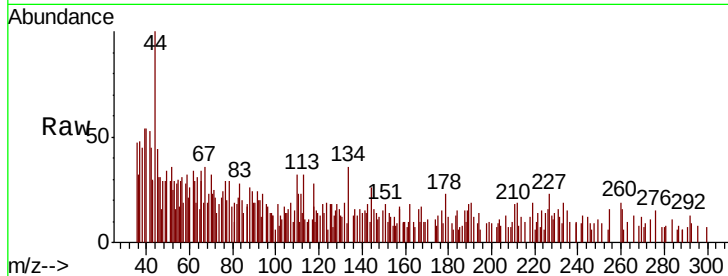




#58
 2-Chloroethyl Vinyl ether
 Concen: 0.235 ug/l
 RT: 8.43 min Scan# 1237
 Delta R.T. 0.12 min
 Lab File: VX013982.D
 Acq: 12 Dec 2019 17:55

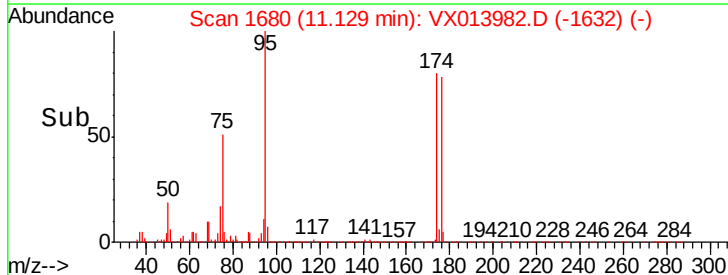
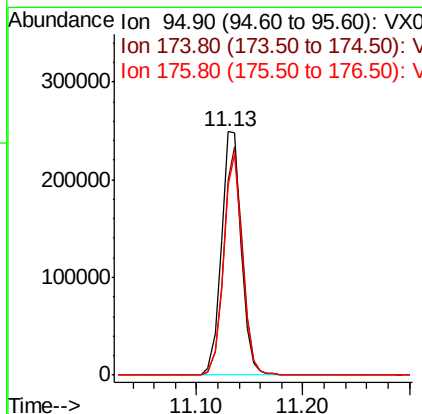
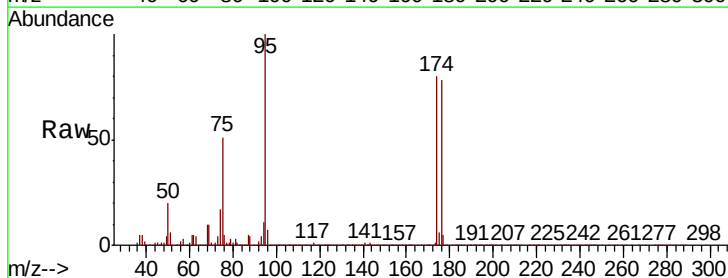
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D3-20191209

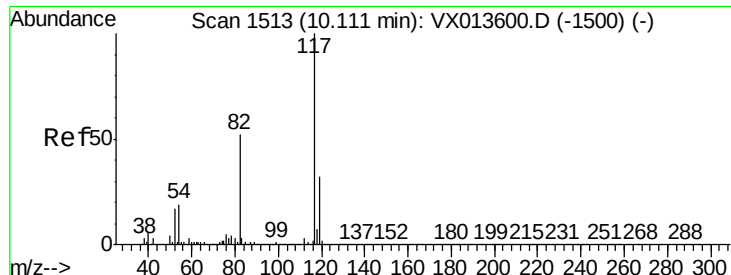
Tot Ion: 63 Resp: 886
 Ion Ratio Lower Upper
 63 100
 106 30.4 23.4 35.0



#62
 4-Bromofluorobenzene
 Concen: 43.259 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.01 min
 Lab File: VX013982.D
 Acq: 12 Dec 2019 17:55

Tgt Ion: 95 Resp: 325266
 Ion Ratio Lower Upper
 95 100
 174 88.8 0.0 180.0
 176 85.2 0.0 173.6

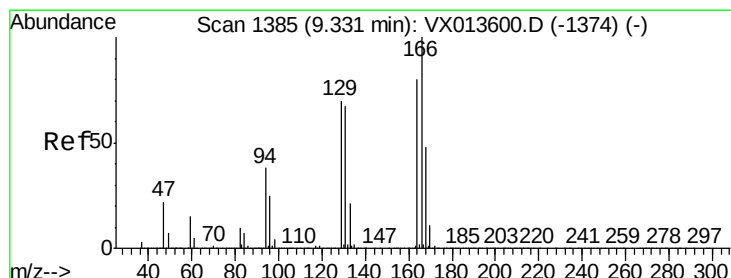
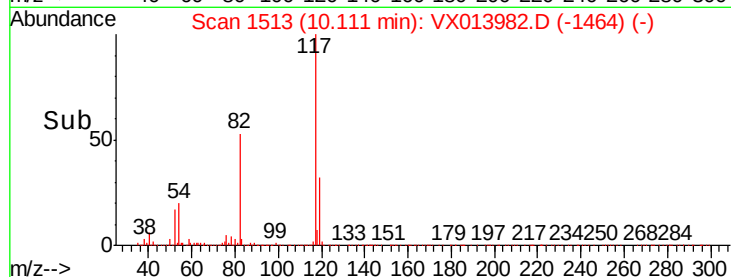
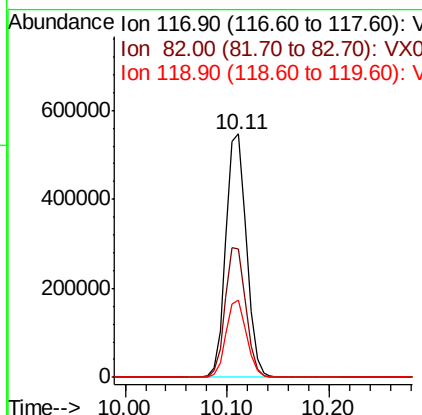
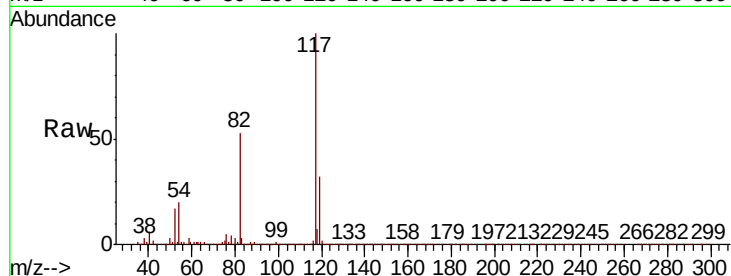




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013982.D
Acq: 12 Dec 2019 17:55

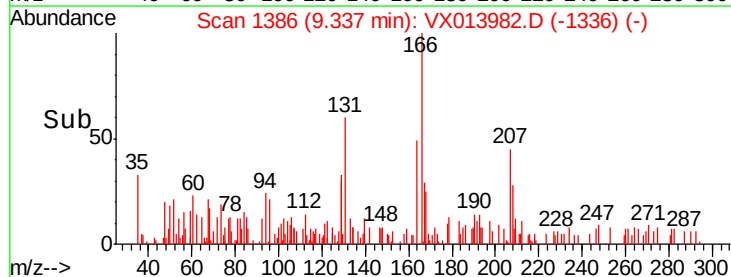
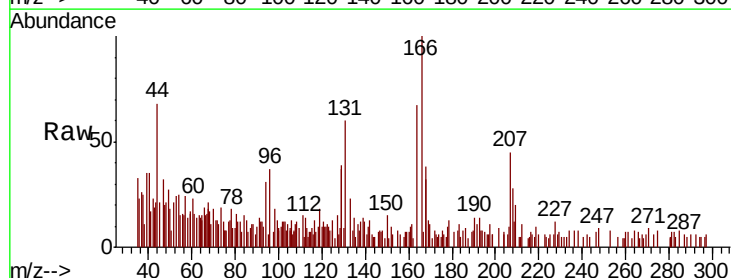
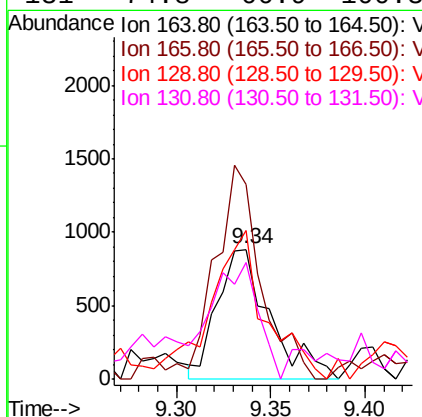
Instrument :
MSVOA_X
ClientSampleId :
RE132D3-20191209

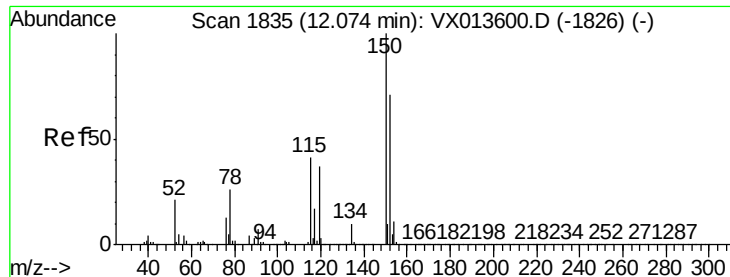
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.8	41.8	62.8
119	32.0	25.8	38.8



#64
Tetrachloroethene
Concen: 0.300 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX013982.D
Acq: 12 Dec 2019 17:55

Tgt Ion	Ratio	Lower	Upper
164	100		
166	142.6	99.7	149.5
129	98.6	70.1	105.1
131	74.8	66.9	100.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013982.D

Acq: 12 Dec 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

RE132D3-20191209

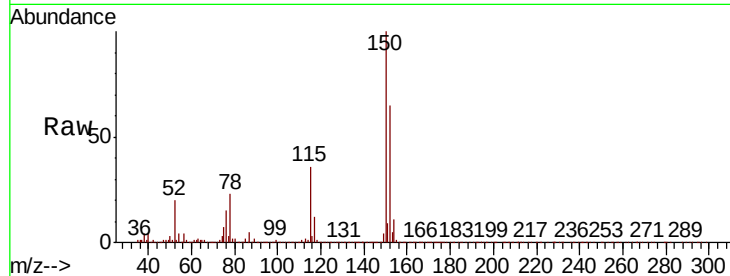
Tot Ion:152 Resp: 313295

Ion Ratio Lower Upper

152 100

115 55.4 38.4 115.1

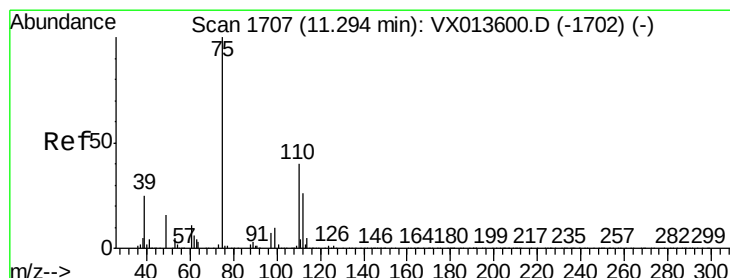
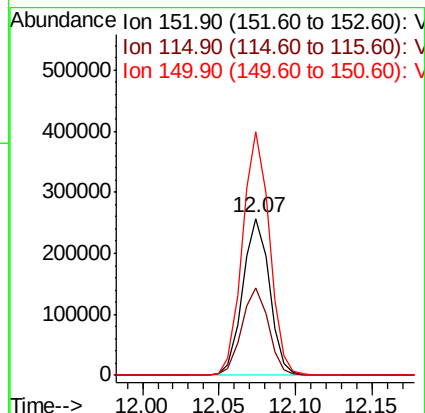
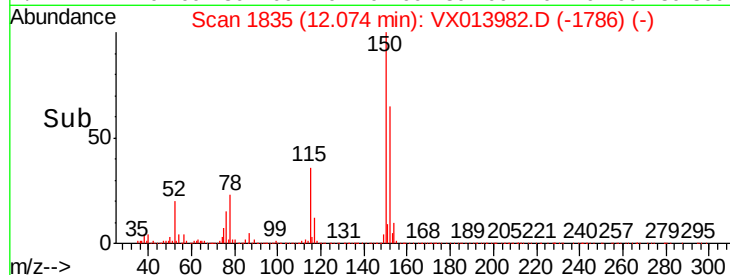
150 156.4 0.0 346.8



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: 22.571 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013982.D

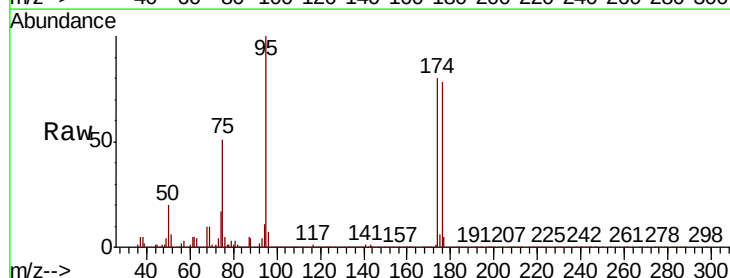
Acq: 12 Dec 2019 17:55

Tgt Ion: 75 Resp: 159050

Ion Ratio Lower Upper

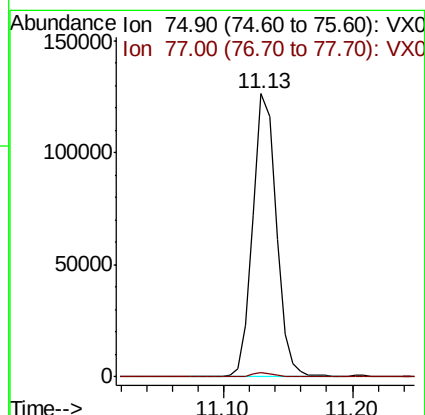
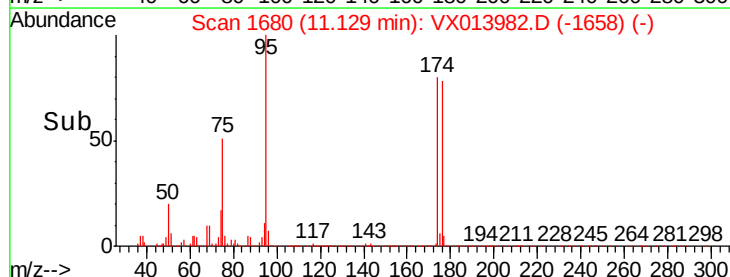
75 100

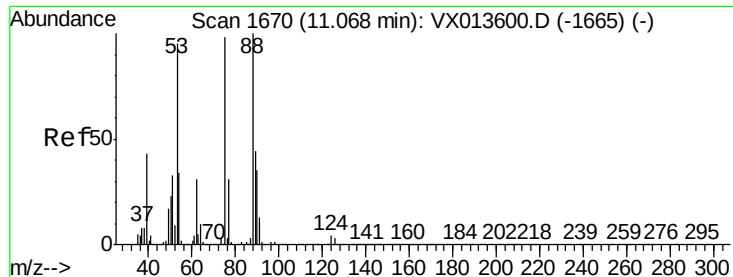
77 2.0 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

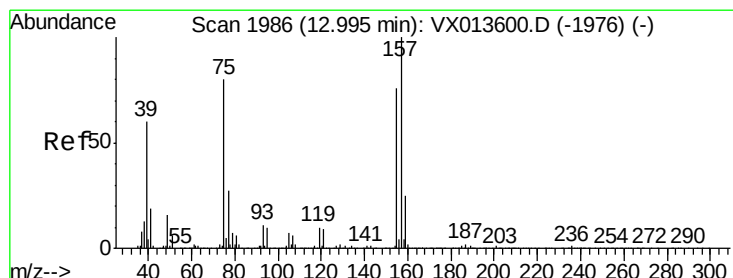
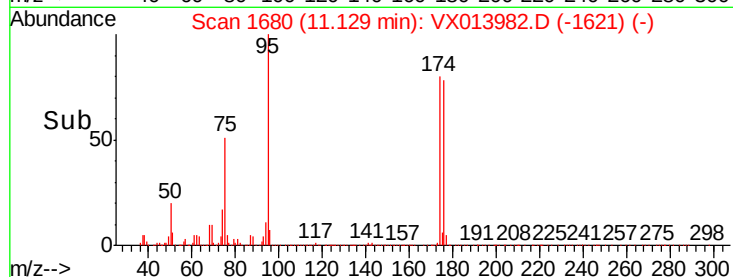
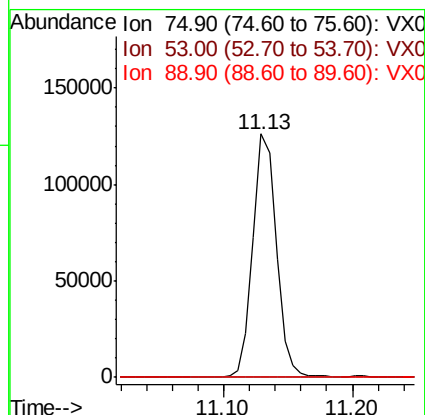
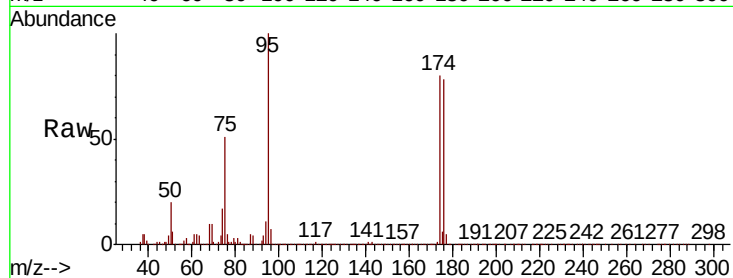




#81
trans-1,4-Dichloro-2-butene
Concen: 61.751 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX013982.D
Acq: 12 Dec 2019 17:55

Instrument :
MSVOA_X
ClientSampleId :
RE132D3-20191209

Tot Ion: 75 Resp: 159050
Ion Ratio Lower Upper
75 100
53 0.3 78.2 117.2#
89 0.0 35.4 53.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.310 ug/l
RT: 13.09 min Scan# 2001
Delta R.T. 0.09 min
Lab File: VX013982.D
Acq: 12 Dec 2019 17:55

Tgt Ion: 75 Resp: 514
Ion Ratio Lower Upper
75 100
155 87.5 47.6 142.8
157 76.7 62.1 186.2

