

Data File : VX013949.D
Acq On : 11 Dec 2019 17:08
Operator : JC/SP
Sample : K6184-14DL 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

Quant Time: Dec 12 04:02:44 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	577636	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	884955	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	793184	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	343155	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	325864	48.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.20%	
35) Dibromofluoromethane	5.49	113	264587	48.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.72%	
50) Toluene-d8	8.71	98	1054483	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	
62) 4-Bromofluorobenzene	11.14	95	346384	45.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.12%	

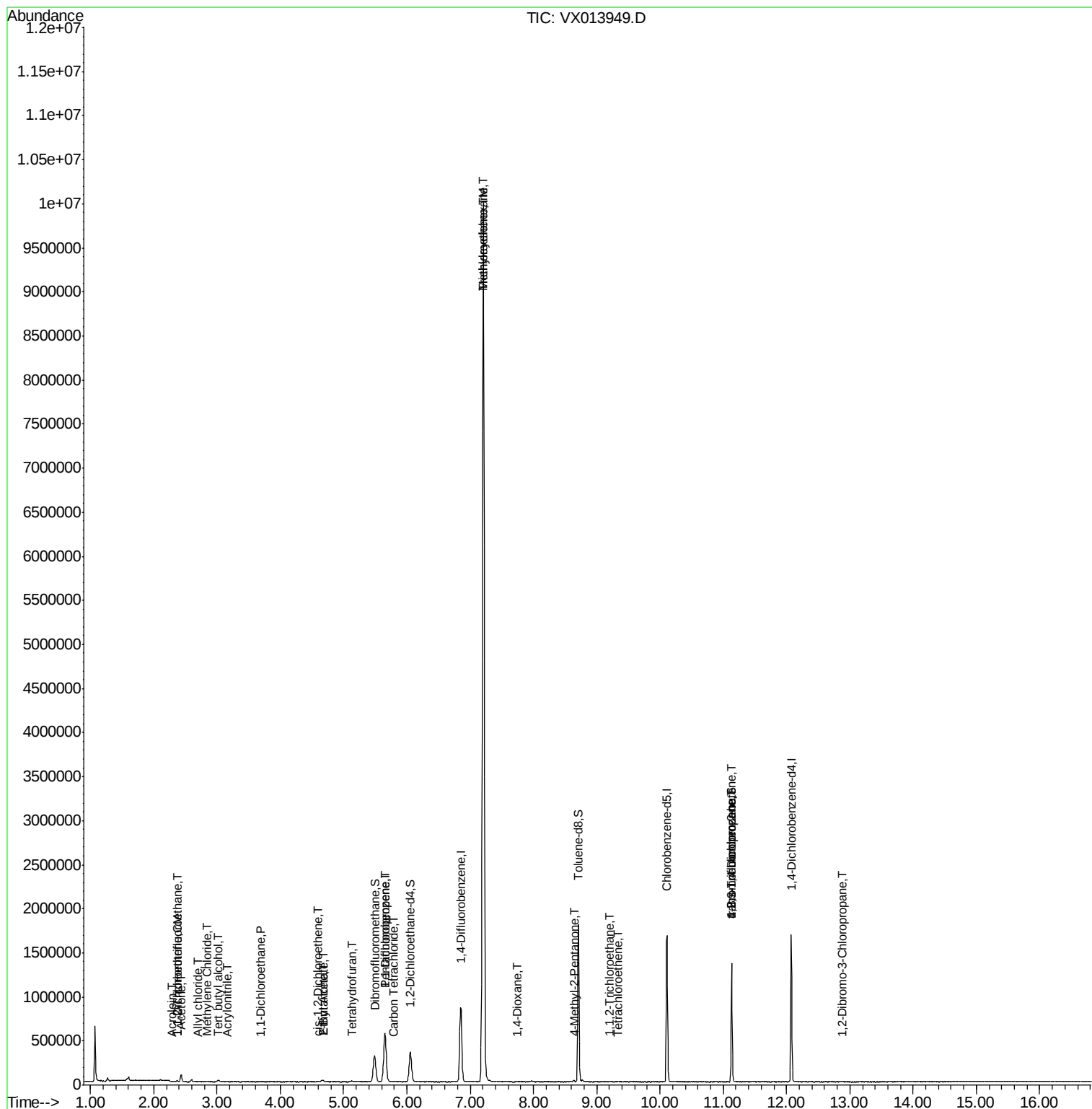
Target Compounds			Qvalue			
9) 1,1,2-Trichlorotrifluoroet	2.37	101	2679	0.486	ug/l #	56
11) Tert butyl alcohol	3.02	59	15735	9.507	ug/l	98
12) 1,1-Dichloroethene	2.37	96	3646	0.663	ug/l	88
13) Acrolein	2.28	56	158	6.143	ug/l #	1
14) Allyl chloride	2.70	41	2159	0.216	ug/l #	46
15) Acrylonitrile	3.15	53	751	0.220	ug/l #	37
16) Acetone	2.43	43	87718	26.498	ug/l	100
20) Methylene Chloride	2.84	84	4896	0.770	ug/l #	88
24) 1,1-Dichloroethane	3.69	63	2103	0.200	ug/l #	82
25) 2-Butanone	4.67	43	36006	7.319	ug/l #	85
27) cis-1,2-Dichloroethene	4.60	96	5083	0.739	ug/l	89
29) Tetrahydrofuran	5.13	42	12419	4.095	ug/l #	78
36) 1,1-Dichloropropene	5.65	75	39776	4.951	ug/l #	51
37) Ethyl Acetate	4.67	43	36006	3.995	ug/l #	71
38) Carbon Tetrachloride	5.78	117	2375	0.321	ug/l #	50
39) Methylcyclohexane	7.21	83	42471	4.277	ug/l #	1
44) Trichloroethene	7.21	130	3896728	580.326	ug/l	98
49) 1,4-Dioxane	7.75	88	354	2.194	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	10190	1.092	ug/l	91
55) 1,1,2-Trichloroethane	9.21	97	3050	0.498	ug/l	92
64) Tetrachloroethene	9.34	164	1716	0.290	ug/l #	71
76) 1,2,3-Trichloropropane	11.14	75	168023	21.770	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	168023	59.558	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.87	75	469	0.258	ug/l	71

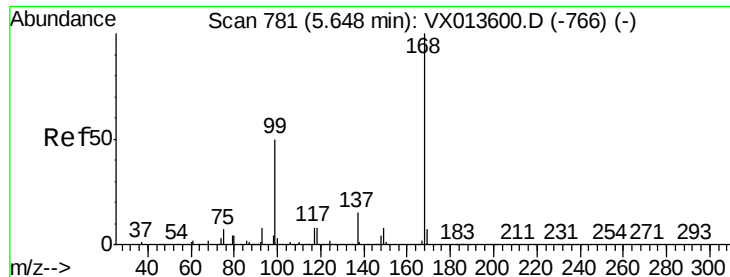
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

Instrument :

MSVOA_X

ClientSampleId :

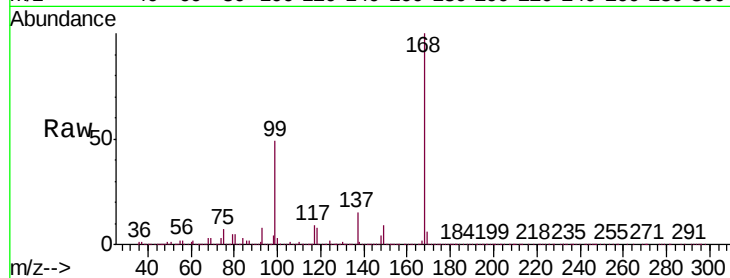
RE122D2-20191203DL

Tgt Ion:168 Resp: 577636

Ion Ratio Lower Upper

168 100

99 49.3 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

250000

200000

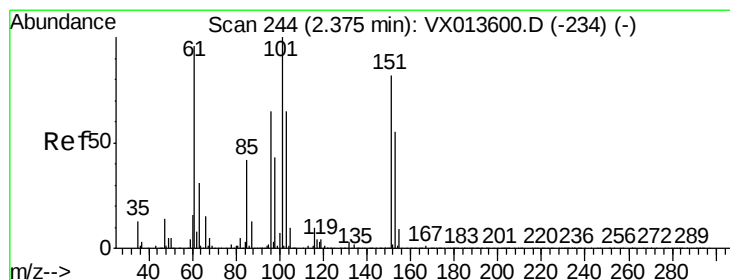
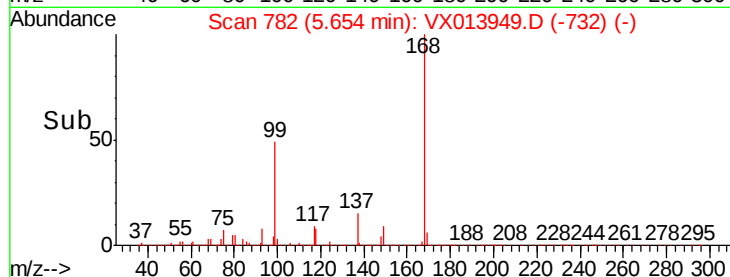
150000

100000

50000

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.486 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.00 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

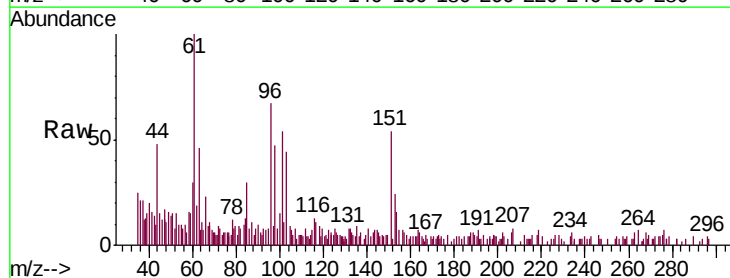
Tgt Ion:101 Resp: 2679

Ion Ratio Lower Upper

101 100

85 77.5 33.9 50.9#

151 114.3 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

2.37

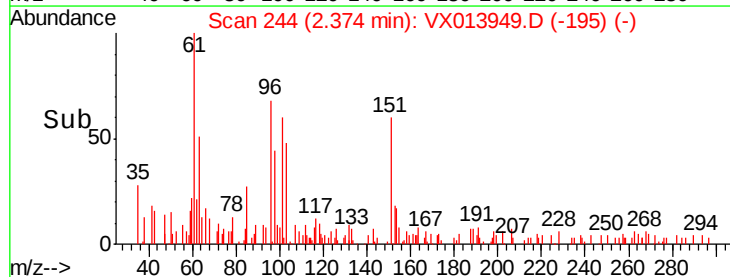
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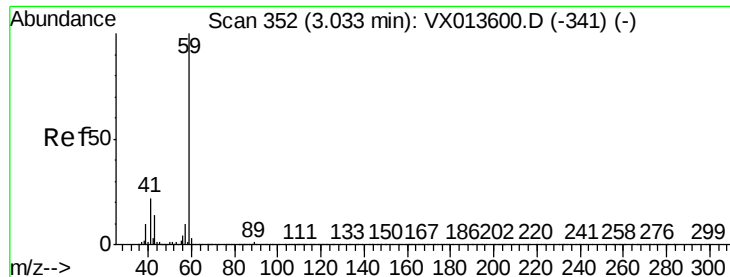
1000

500

0

Time-->

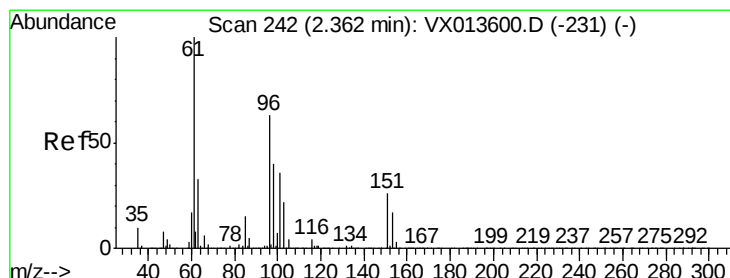
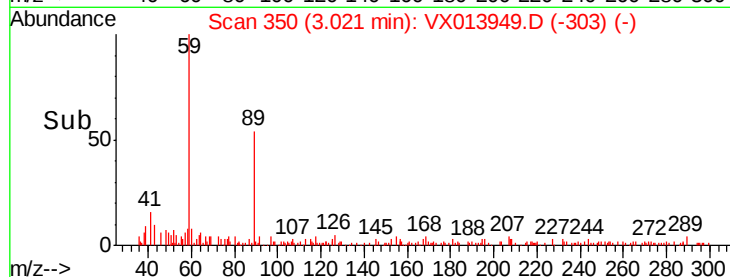
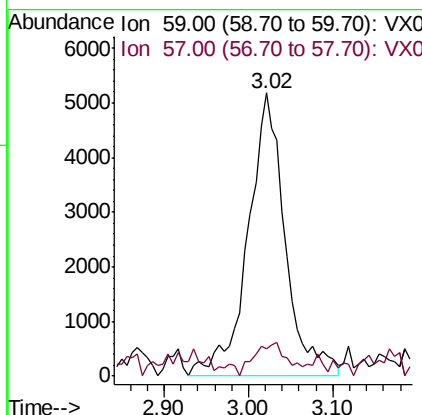
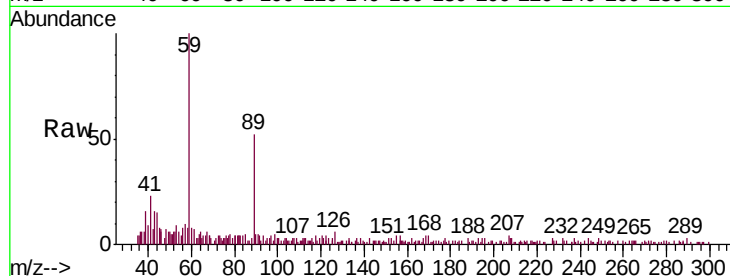




#11
Tert butyl alcohol
Concen: 9.507 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX013949.D
Acq: 11 Dec 2019 17:08

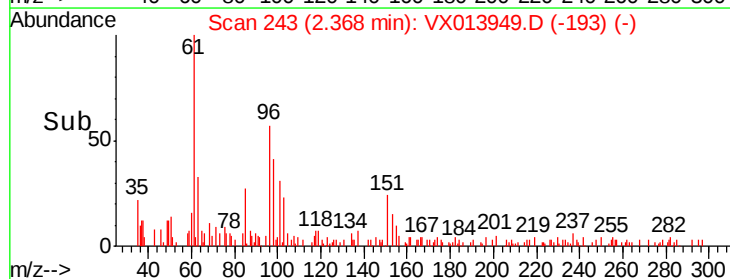
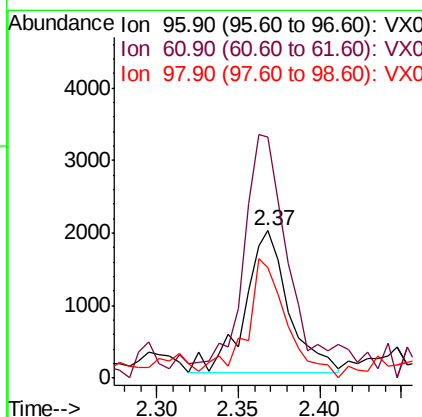
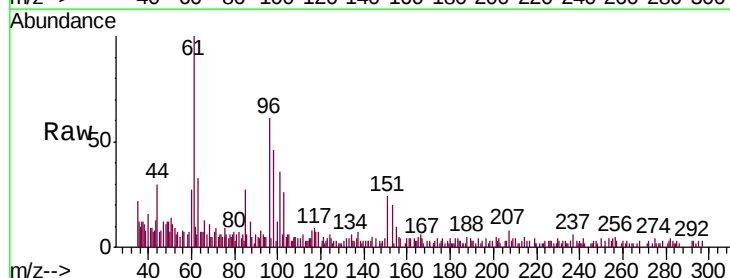
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

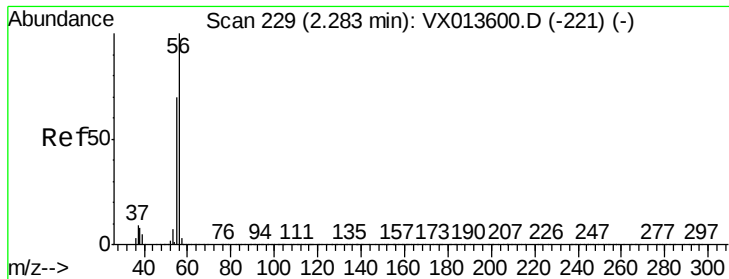
Tgt Ion: 59 Resp: 15735
Ion Ratio Lower Upper
59 100
57 10.5 7.8 11.6



#12
1,1-Dichloroethene
Concen: 0.663 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX013949.D
Acq: 11 Dec 2019 17:08

Tgt Ion: 96 Resp: 3646
Ion Ratio Lower Upper
96 100
61 173.6 126.6 190.0
98 73.8 50.6 76.0

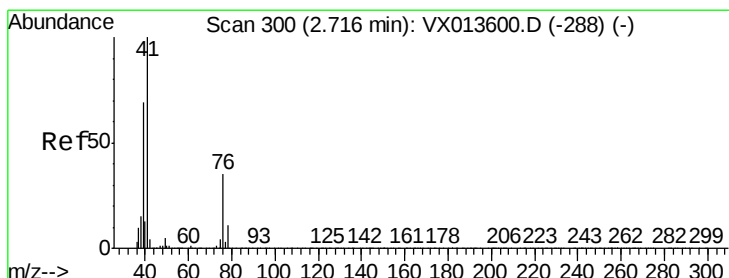
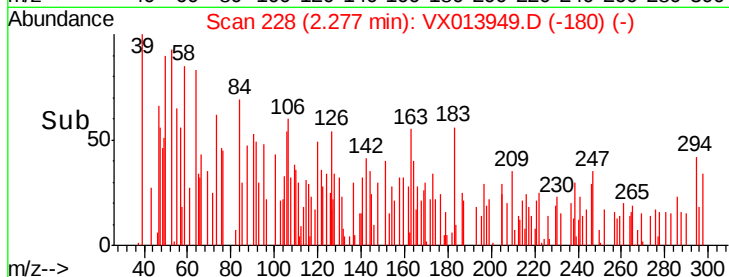
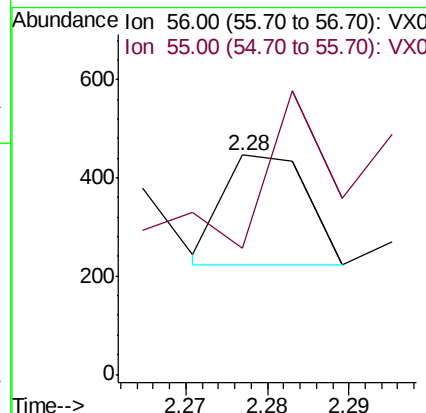
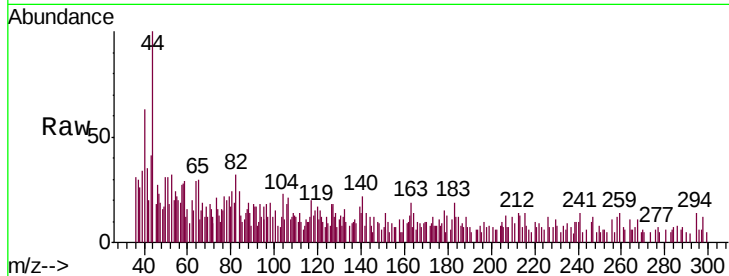




#13
Acrolein
Concen: 6.143 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX013949.D
Acq: 11 Dec 2019 17:08

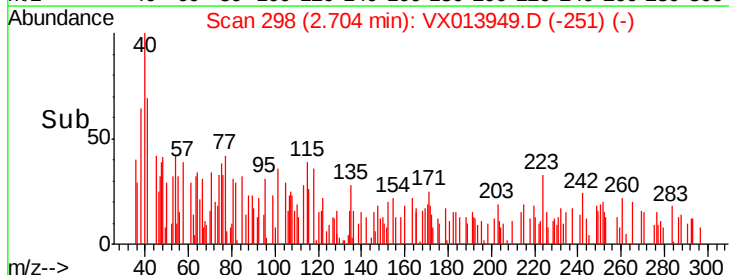
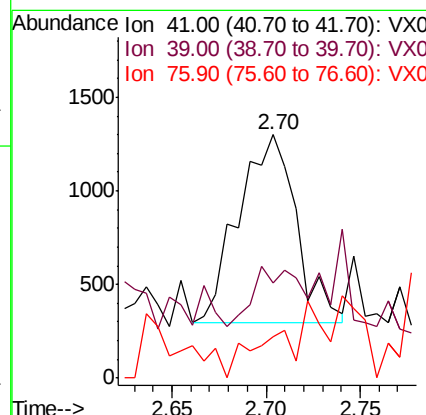
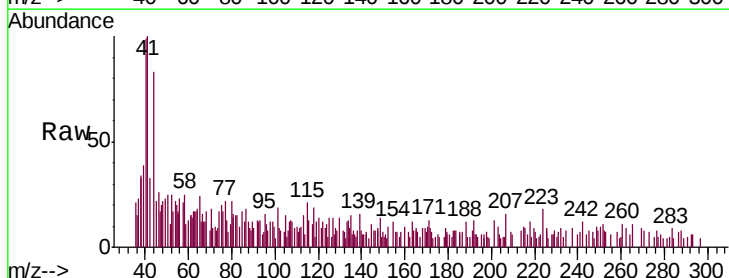
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

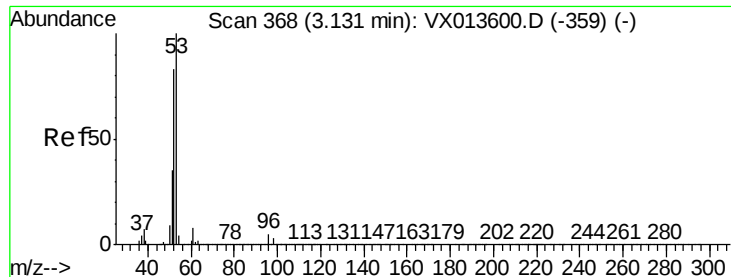
Tgt Ion: 56 Resp: 158
Ion Ratio Lower Upper
56 100
55 286.1 56.2 84.4#



#14
Allyl chloride
Concen: 0.216 ug/l
RT: 2.70 min Scan# 298
Delta R.T. -0.01 min
Lab File: VX013949.D
Acq: 11 Dec 2019 17:08

Tgt Ion: 41 Resp: 2159
Ion Ratio Lower Upper
41 100
39 24.2 51.7 77.5#
76 0.0 25.9 38.9#





#15

Acrylonitrile

Concen: 0.220 ug/l

RT: 3.15 min Scan# 372

Delta R.T. 0.02 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203DL

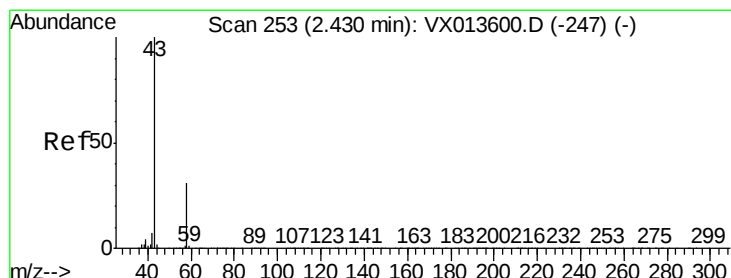
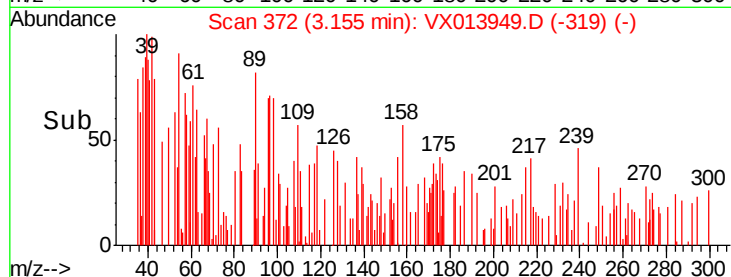
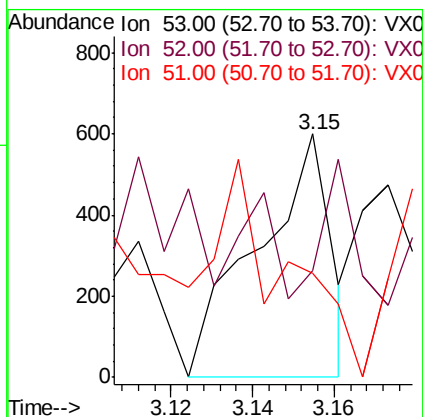
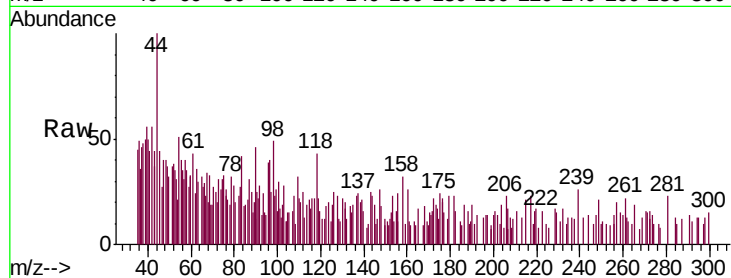
Tgt Ion: 53 Resp: 751

Ion Ratio Lower Upper

53 100

52 25.2 66.2 99.2#

51 0.0 29.0 43.6#



#16

Acetone

Concen: 26.498 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013949.D

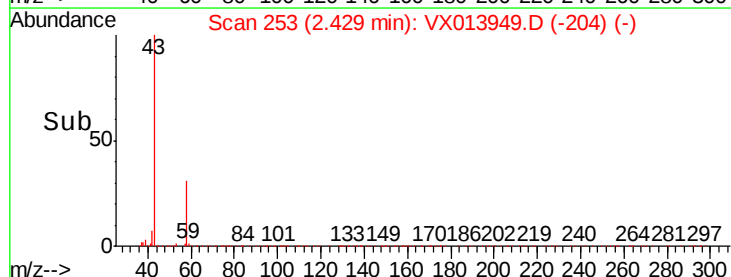
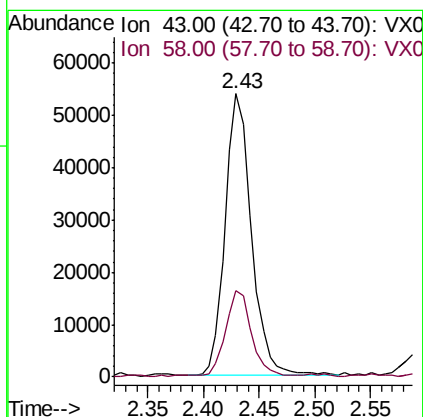
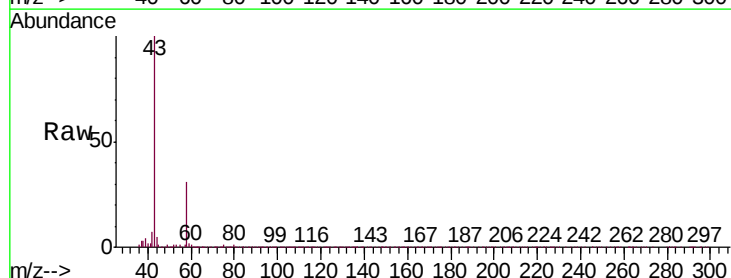
Acq: 11 Dec 2019 17:08

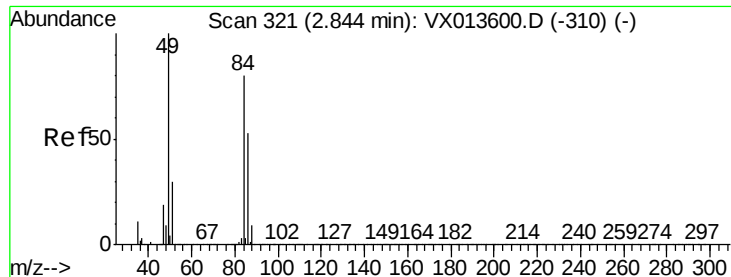
Tgt Ion: 43 Resp: 87718

Ion Ratio Lower Upper

43 100

58 30.5 24.6 36.8

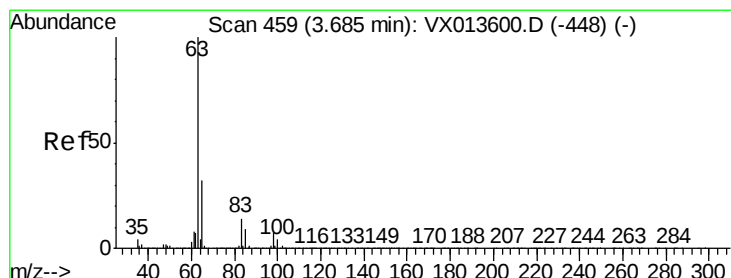
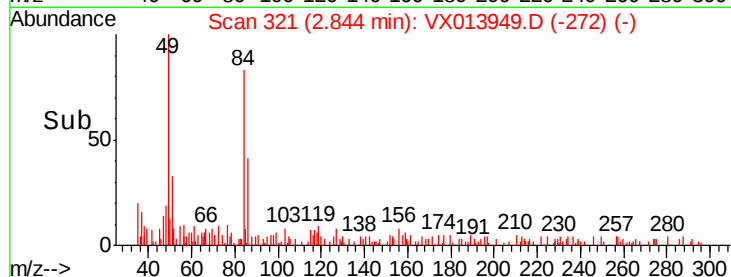
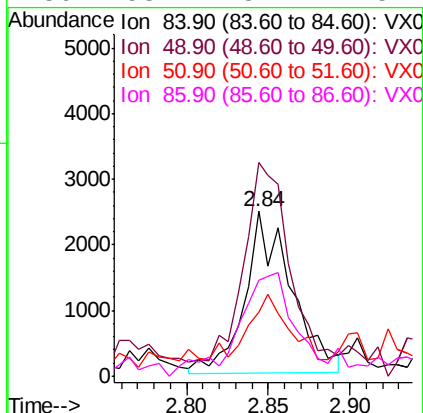
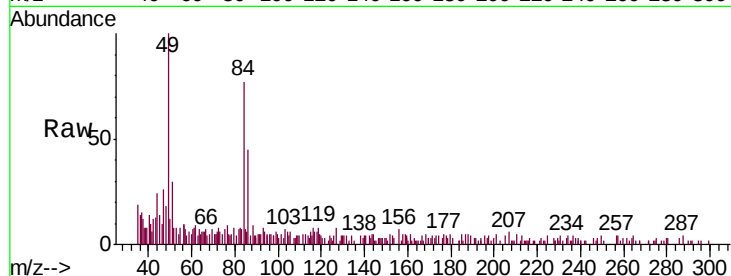




#20
Methylene Chloride
Concen: 0.770 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX013949.D
Acq: 11 Dec 2019 17:08

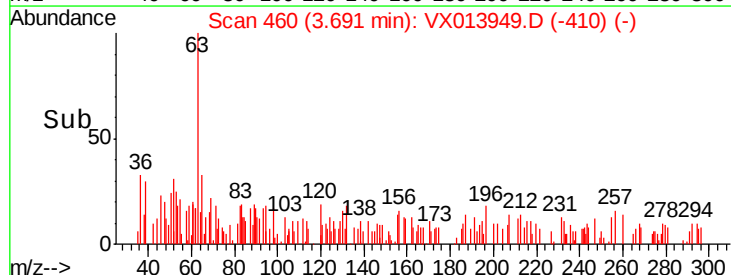
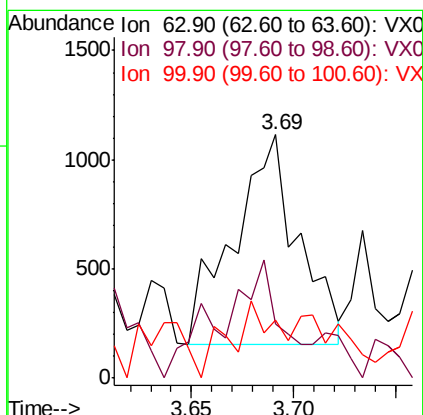
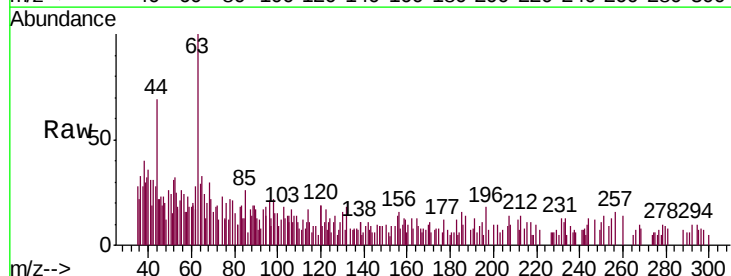
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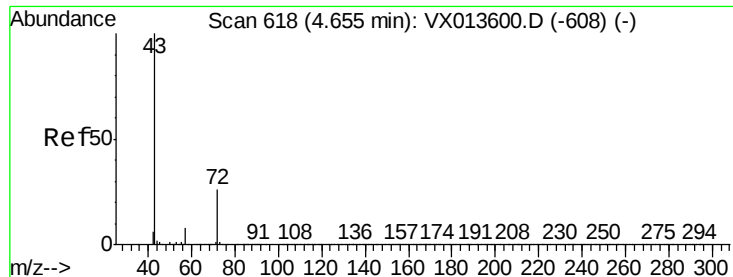
Tgt Ion:	84	Resp:	4896
Ion	Ratio	Lower	Upper
84	100		
49	135.3	99.7	149.5
51	27.4	29.9	44.9#
86	53.2	52.2	78.4



#24
1,1-Dichloroethane
Concen: 0.200 ug/l
RT: 3.69 min Scan# 460
Delta R.T. 0.01 min
Lab File: VX013949.D
Acq: 11 Dec 2019 17:08

Tgt Ion:	63	Resp:	2103
Ion	Ratio	Lower	Upper
63	100		
98	10.1	3.5	10.4
100	15.1	2.1	6.3#





#25

2-Butanone

Concen: 7.319 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

Instrument :

MSVOA_X

ClientSampleId :

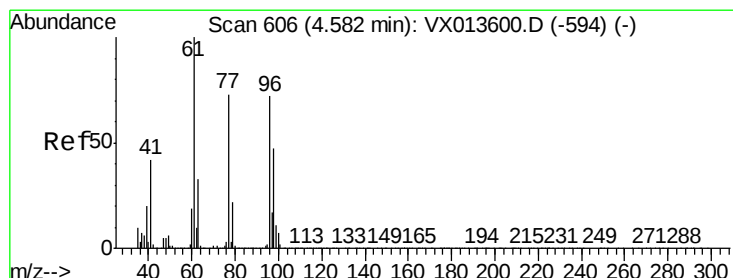
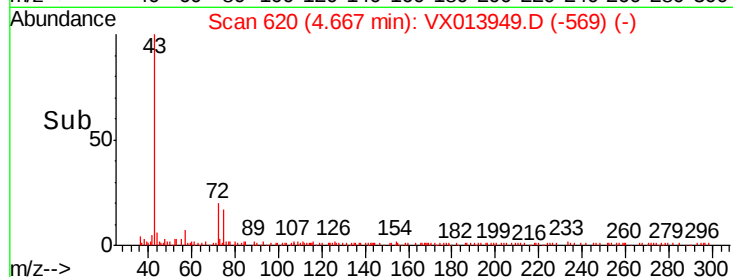
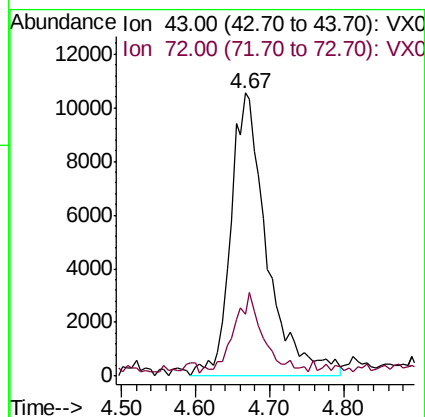
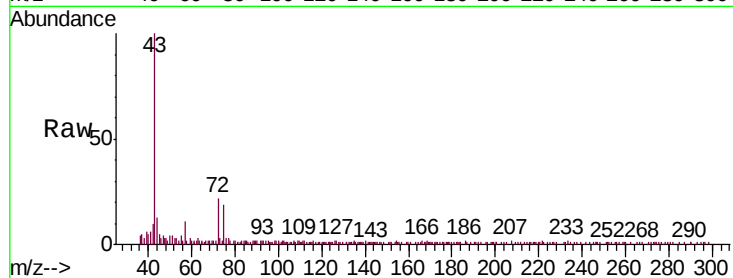
RE122D2-20191203DL

Tgt Ion: 43 Resp: 36006

Ion Ratio Lower Upper

43 100

72 18.4 20.6 31.0#



#27

cis-1,2-Dichloroethene

Concen: 0.739 ug/l

RT: 4.60 min Scan# 609

Delta R.T. 0.02 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

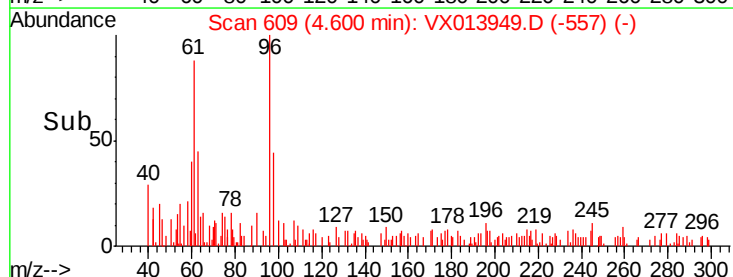
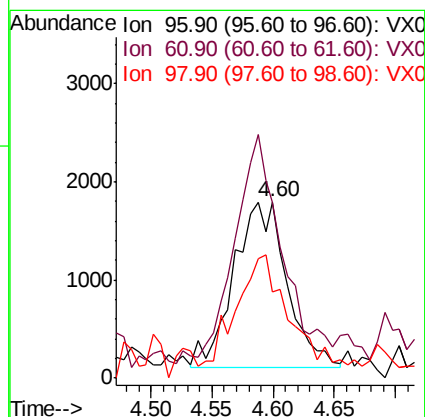
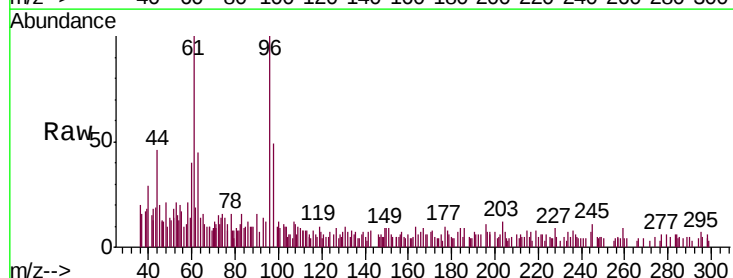
Tgt Ion: 96 Resp: 5083

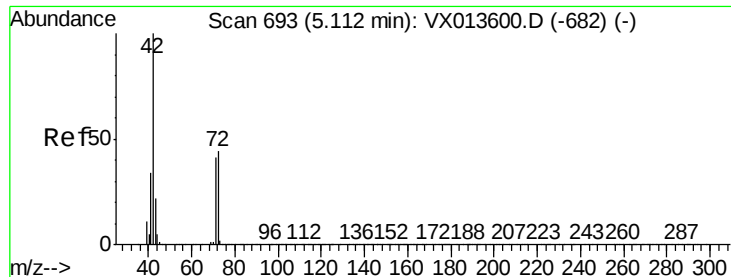
Ion Ratio Lower Upper

96 100

61 124.9 0.0 286.4

98 65.4 0.0 127.4





#29

Tetrahydrofuran

Concen: 4.095 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.02 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

Instrument :

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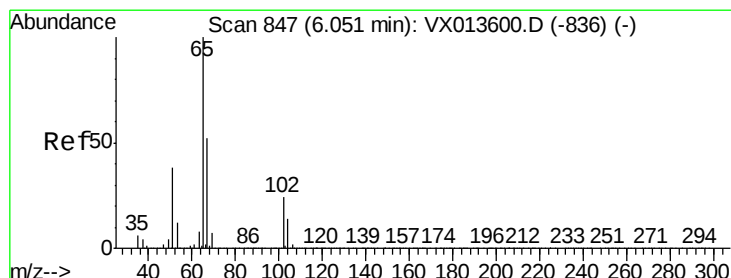
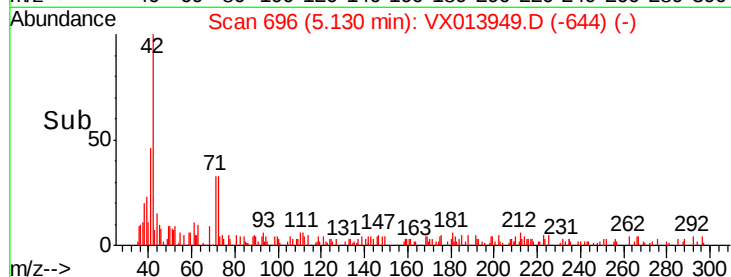
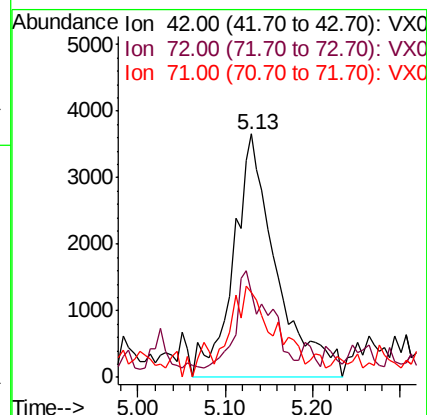
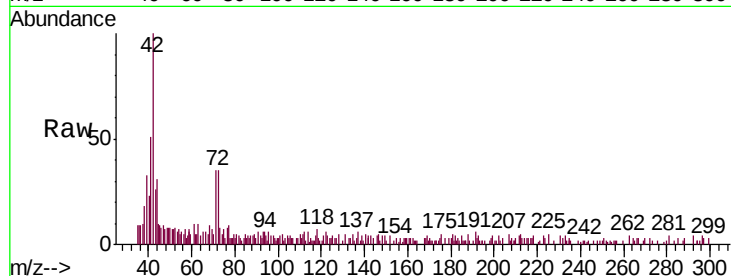
Tgt Ion: 42 Resp: 12419

Ion Ratio Lower Upper

42 100

72 29.9 36.3 54.5#

71 28.9 33.2 49.8#



#33

1,2-Dichloroethane-d4

Concen: 48.600 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013949.D

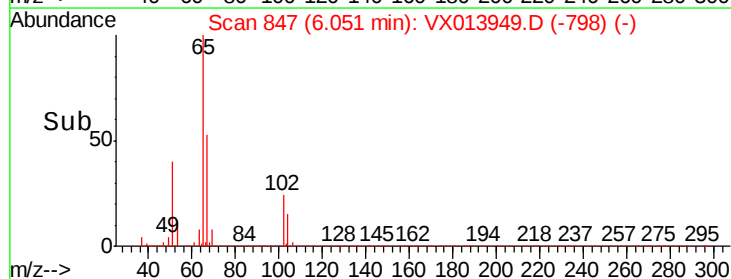
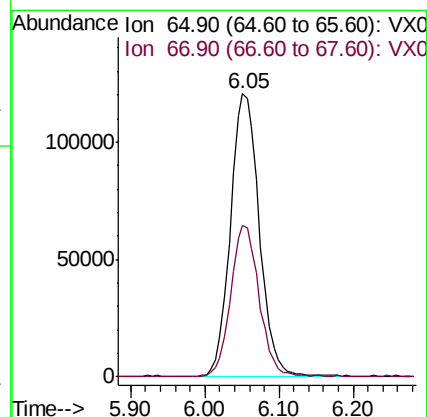
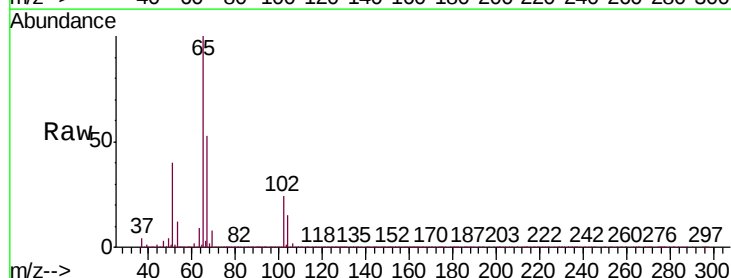
Acq: 11 Dec 2019 17:08

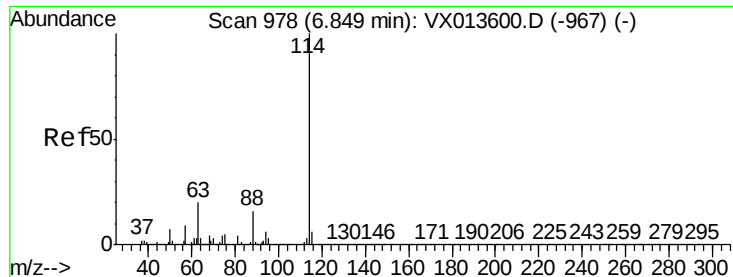
Tgt Ion: 65 Resp: 325864

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.4

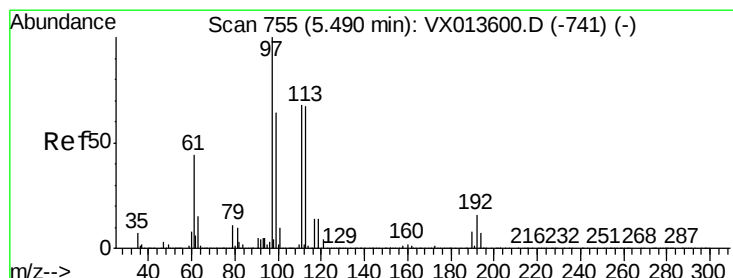
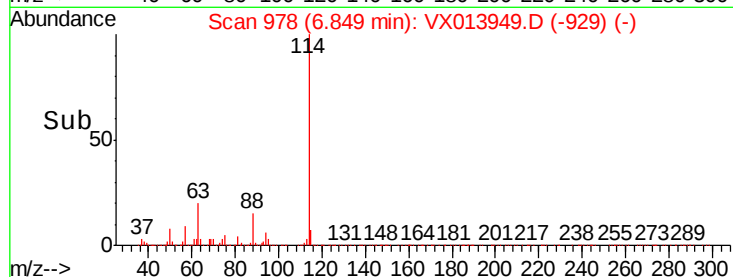
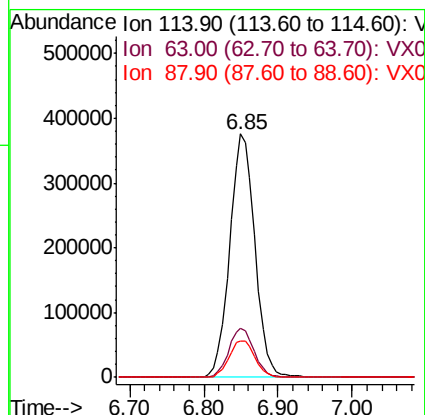
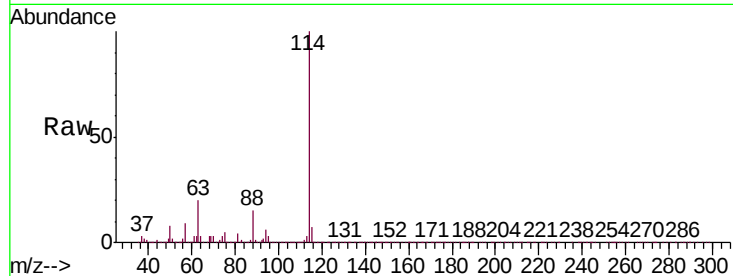




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX013949.D
Acq: 11 Dec 2019 17:08

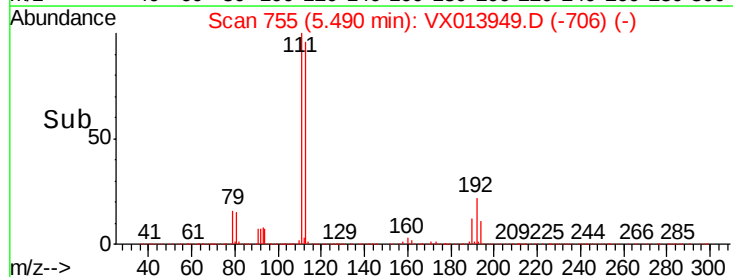
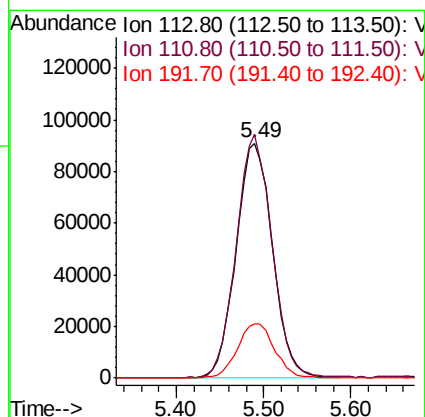
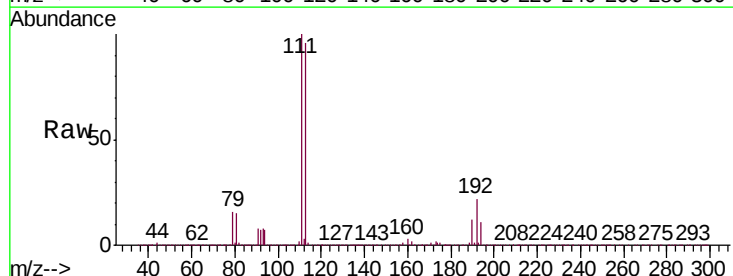
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

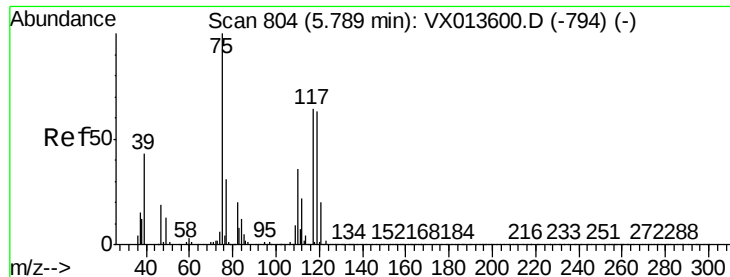
Tgt Ion:	114	Resp:	884955
Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.6
88	15.0	0.0	31.4



#35
Dibromofluoromethane
Concen: 48.363 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX013949.D
Acq: 11 Dec 2019 17:08

Tgt Ion:	113	Resp:	264587
Ion	Ratio	Lower	Upper
113	100		
111	101.6	83.6	125.4
192	23.7	19.2	28.8

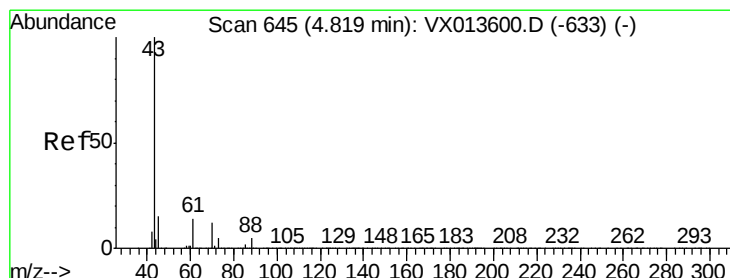
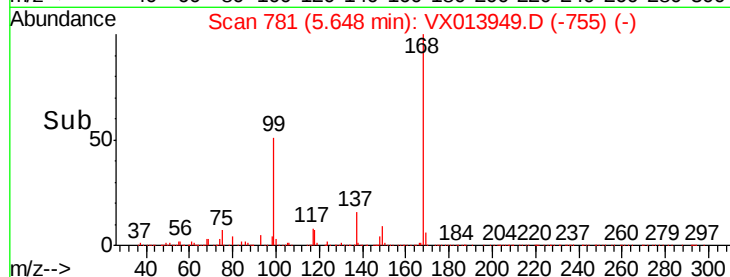
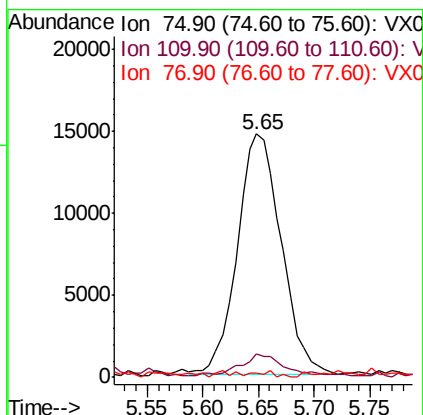
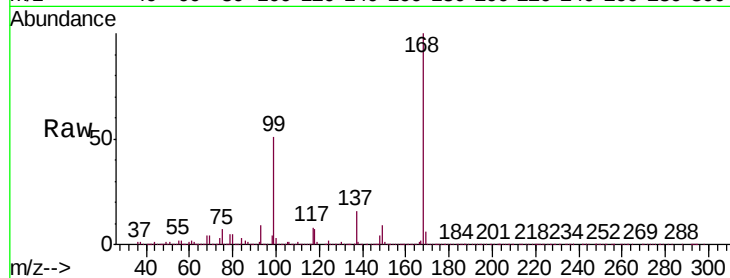




#36
 1,1-Dichloropropene
 Concen: 4.951 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013949.D
 Acq: 11 Dec 2019 17:08

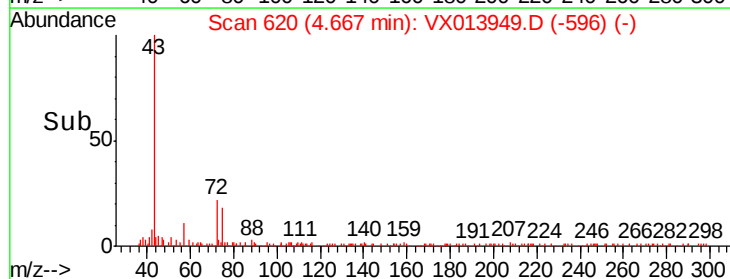
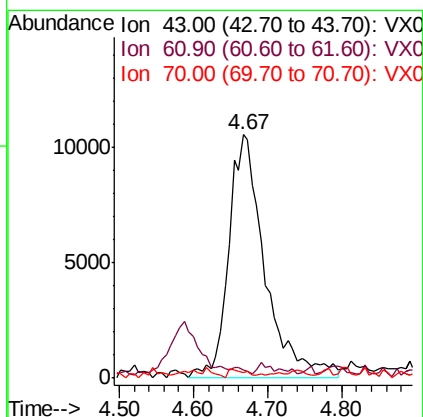
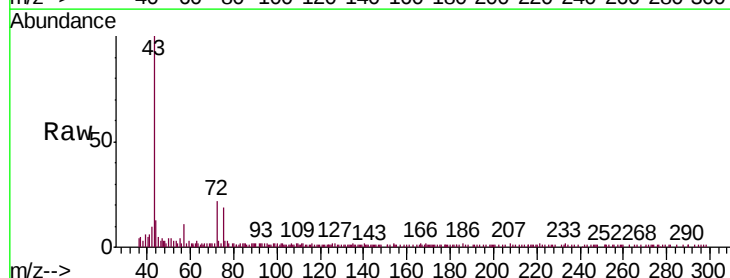
Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D2-20191203DL

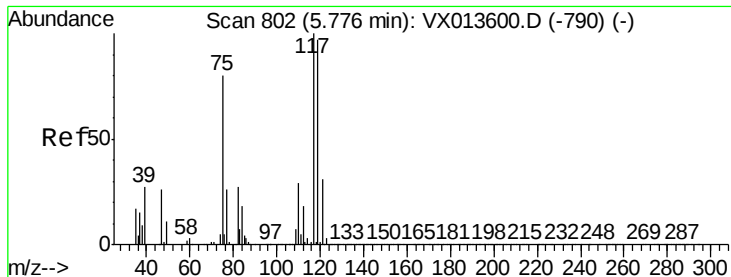
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.1#
77	1.2	24.5	36.7#



#37
 Ethyl Acetate
 Concen: 3.995 ug/l
 RT: 4.67 min Scan# 620
 Delta R.T. -0.15 min
 Lab File: VX013949.D
 Acq: 11 Dec 2019 17:08

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.4#
70	1.9	8.6	12.8#





#38

Carbon Tetrachloride

Concen: 0.321 ug/l

RT: 5.78 min Scan# 803

Delta R.T. 0.01 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203DL

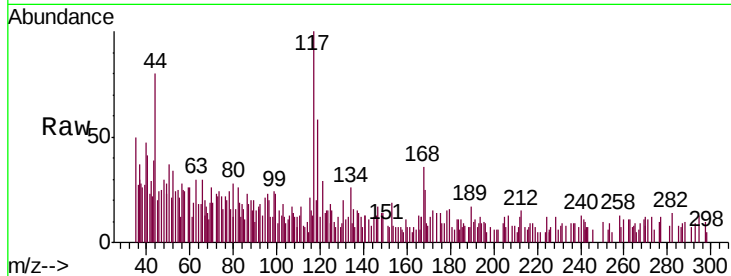
Tgt Ion: 117 Resp: 2375

Ion Ratio Lower Upper

117 100

119 32.1 77.5 116.3#

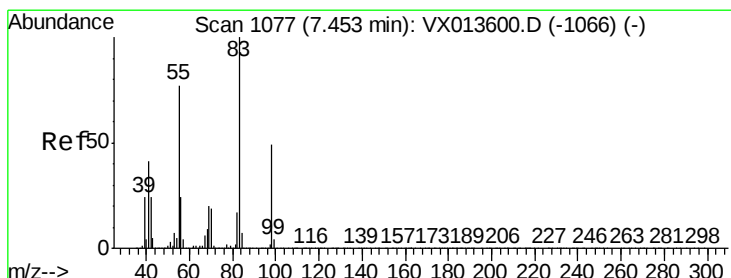
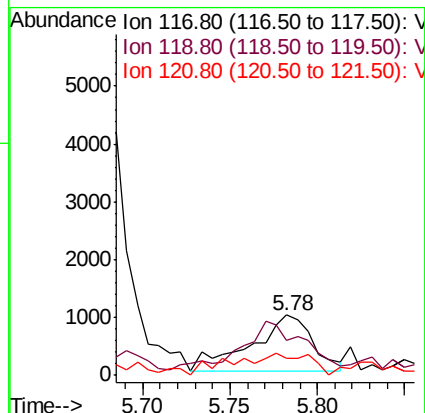
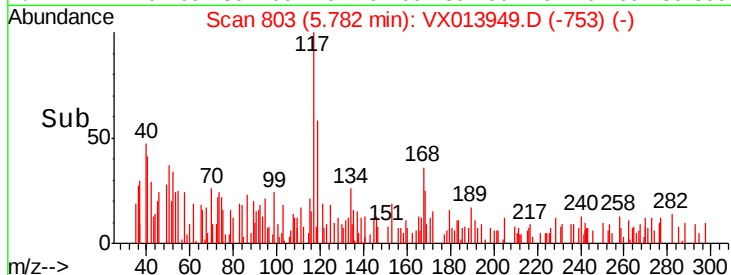
121 31.0 25.0 37.6



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



#39

Methylcyclohexane

Concen: 4.277 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.24 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

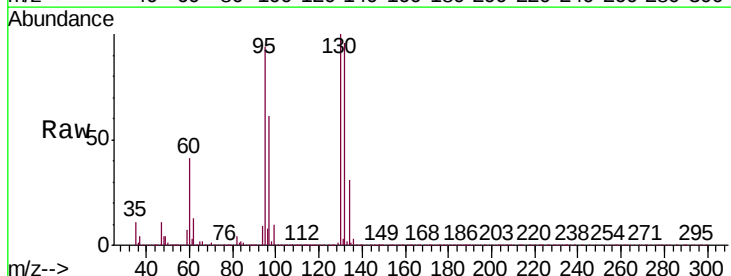
Tgt Ion: 83 Resp: 42471

Ion Ratio Lower Upper

83 100

55 0.0 61.9 92.9#

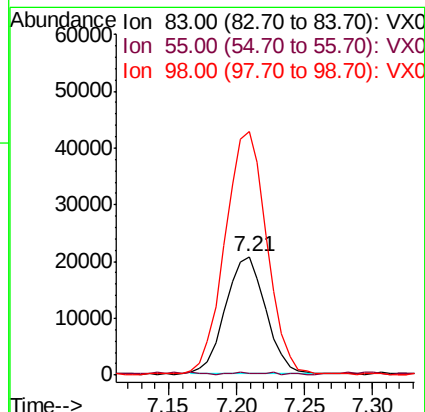
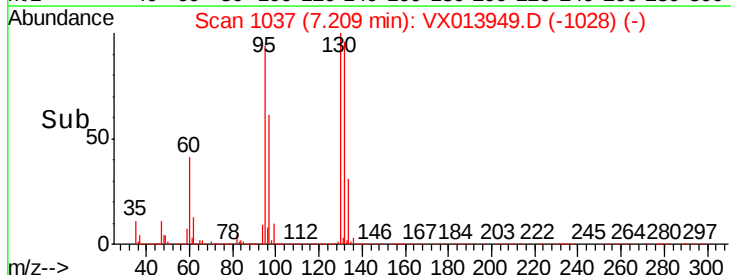
98 203.7 39.4 59.0#

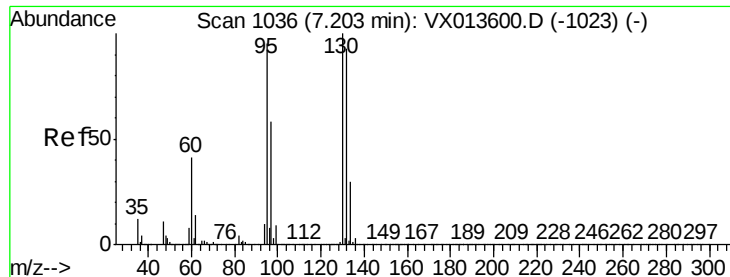


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 580.326 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

Instrument :

MSVOA_X

ClientSampleId :

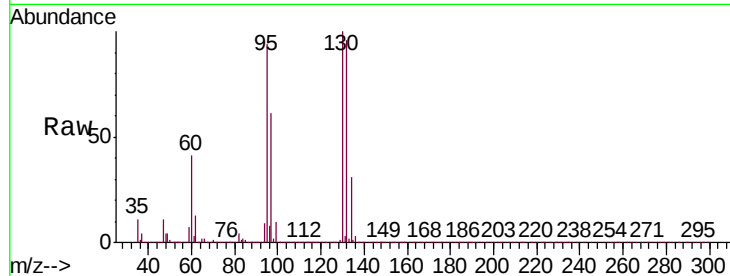
RE122D2-20191203DL

Tgt Ion:130 Resp: 3896728

Ion Ratio Lower Upper

130 100

95 93.5 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

2000000

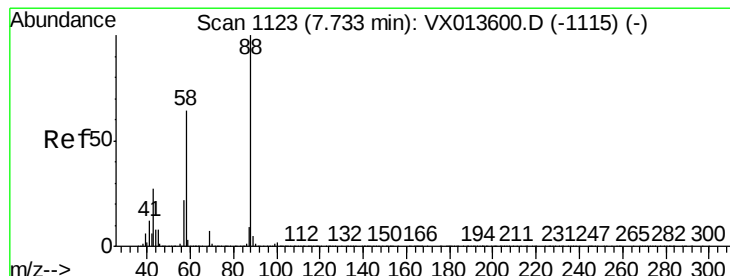
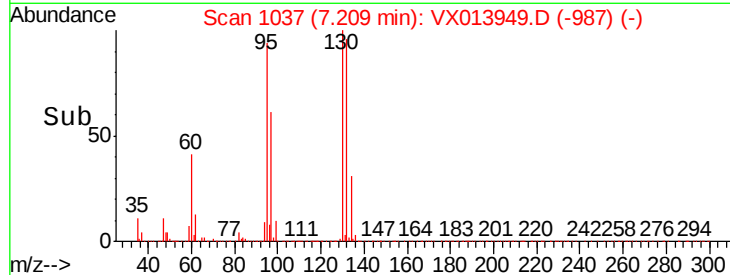
1500000

1000000

500000

0

Time-->



#49

1,4-Dioxane

Concen: 2.194 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

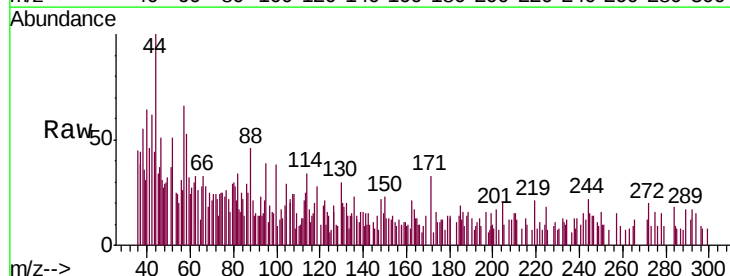
Tgt Ion: 88 Resp: 354

Ion Ratio Lower Upper

88 100

43 132.8 25.8 38.6#

58 288.7 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

800

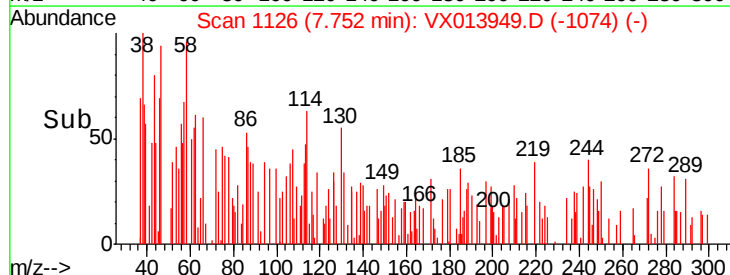
600

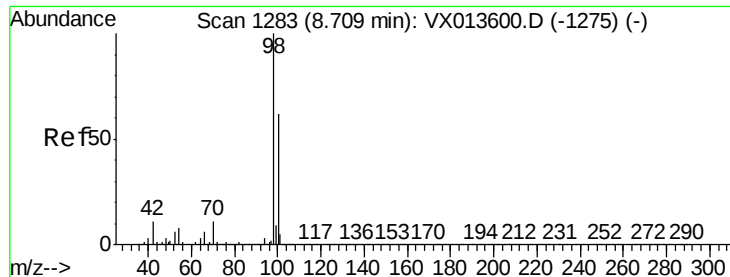
400

200

0

Time-->





#50

Toluene-d8

Concen: 49.471 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

Instrument :

MSVOA_X

ClientSampleId :

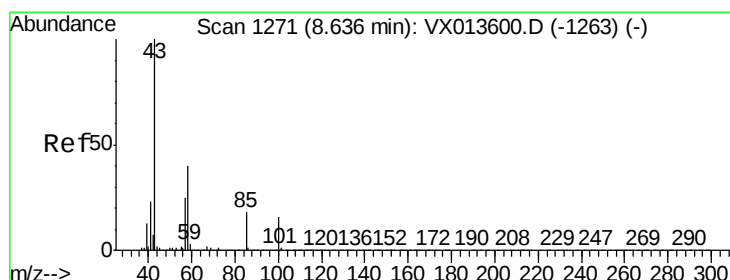
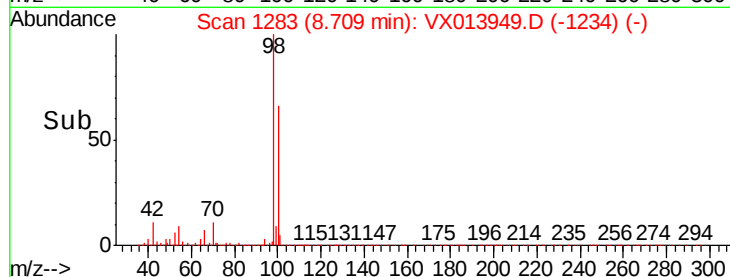
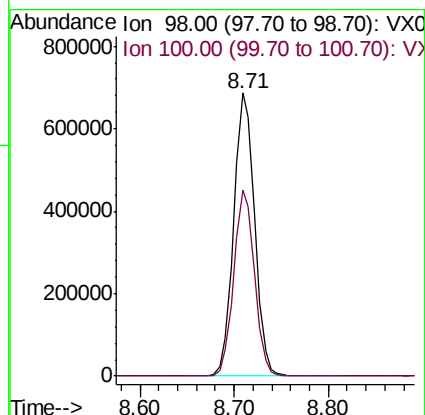
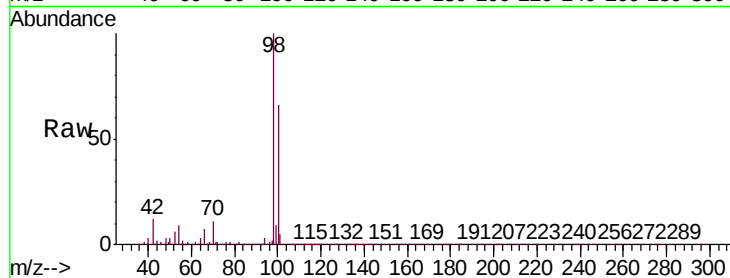
RE122D2-20191203DL

Tgt Ion: 98 Resp: 1054483

Ion Ratio Lower Upper

98 100

100 65.0 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 1.092 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX013949.D

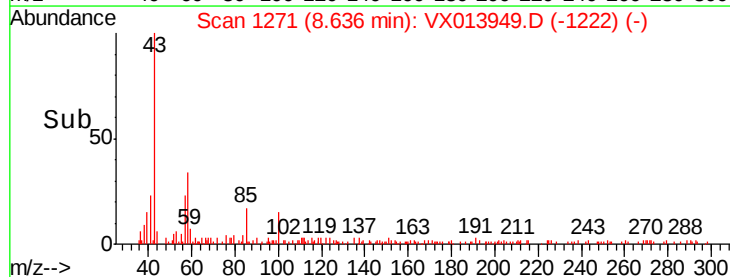
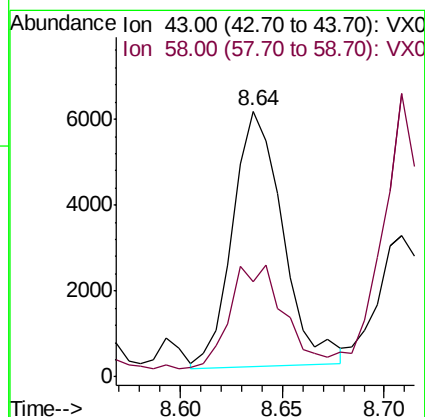
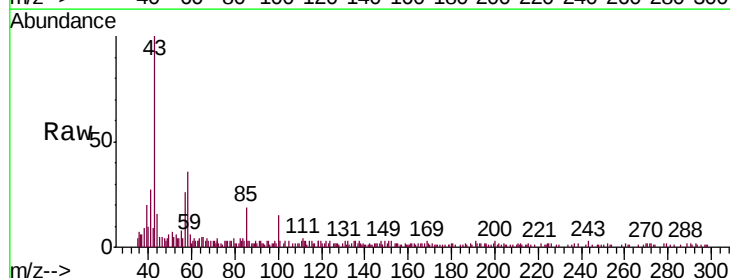
Acq: 11 Dec 2019 17:08

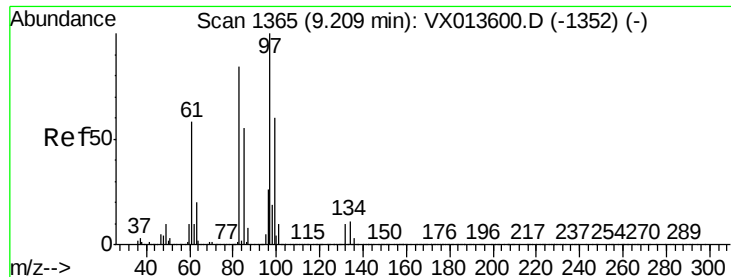
Tgt Ion: 43 Resp: 10190

Ion Ratio Lower Upper

43 100

58 45.7 32.1 48.1





#55

1,1,2-Trichloroethane

Concen: 0.498 ug/l

RT: 9.21 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203DL

Tgt Ion: 97 Resp: 3050

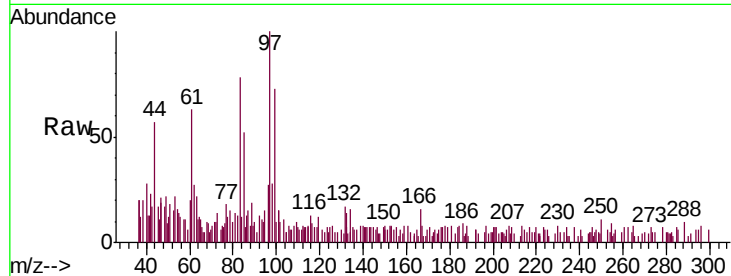
Ion Ratio Lower Upper

97 100

83 72.7 67.3 100.9

85 52.8 43.6 65.4

99 65.1 48.2 72.4

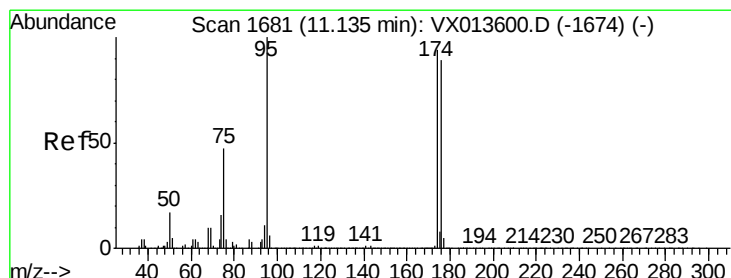
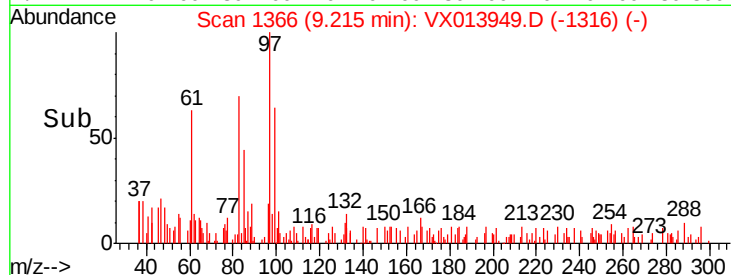
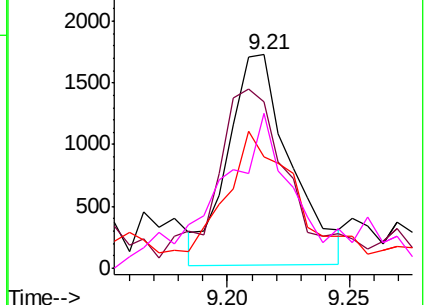


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#62

4-Bromofluorobenzene

Concen: 45.065 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

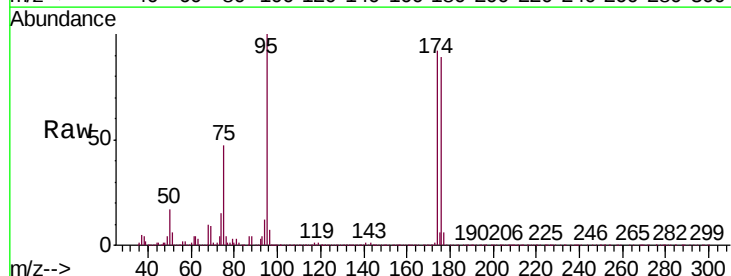
Tgt Ion: 95 Resp: 346384

Ion Ratio Lower Upper

95 100

174 88.8 0.0 180.0

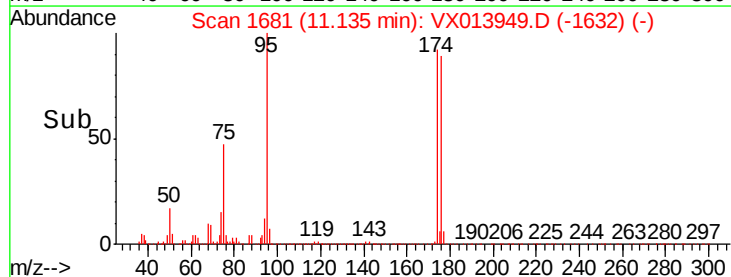
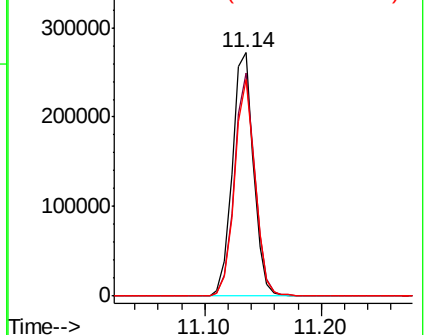
176 85.9 0.0 173.6

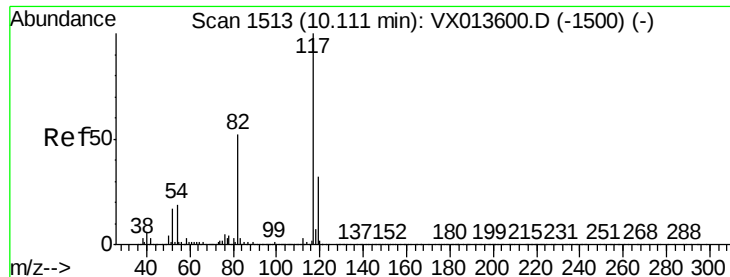


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

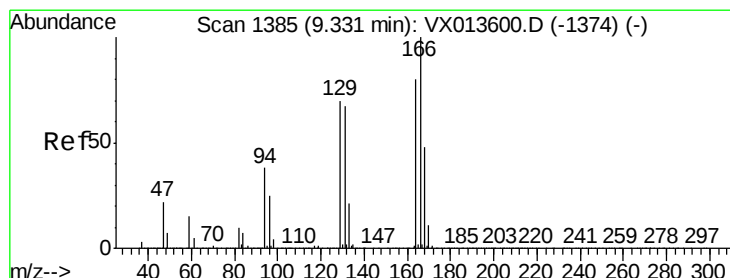
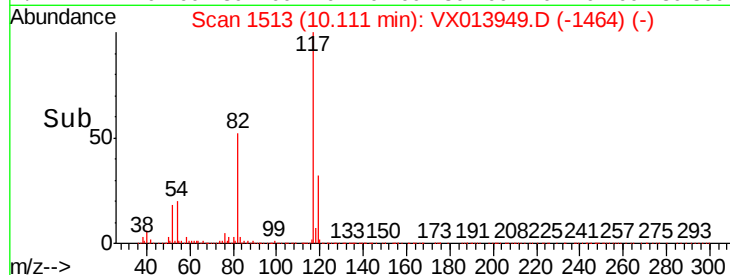
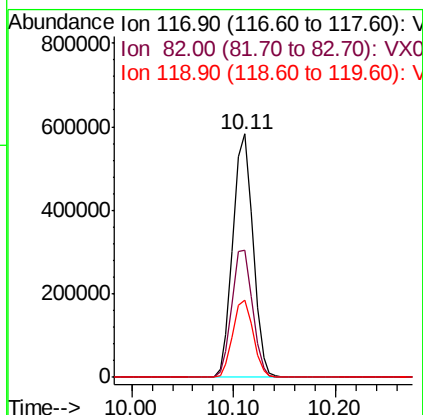
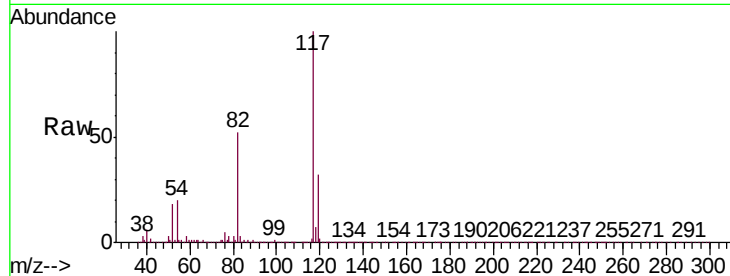




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013949.D
Acq: 11 Dec 2019 17:08

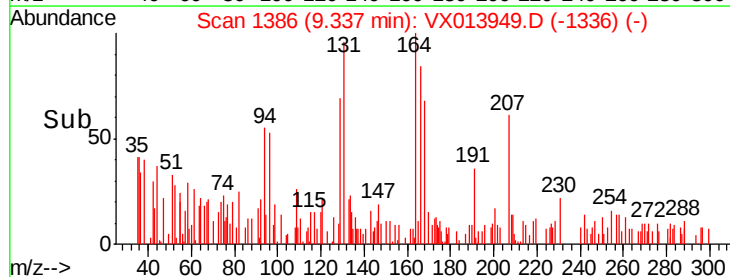
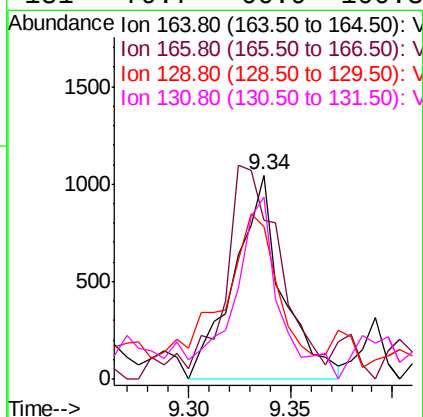
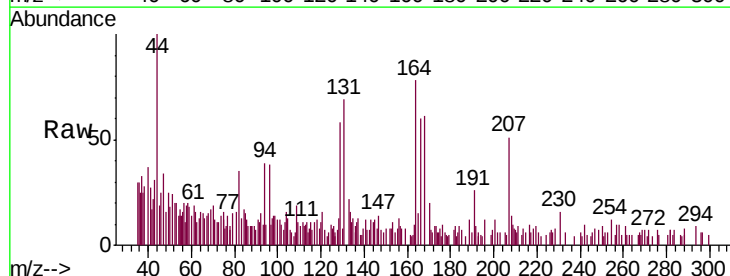
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

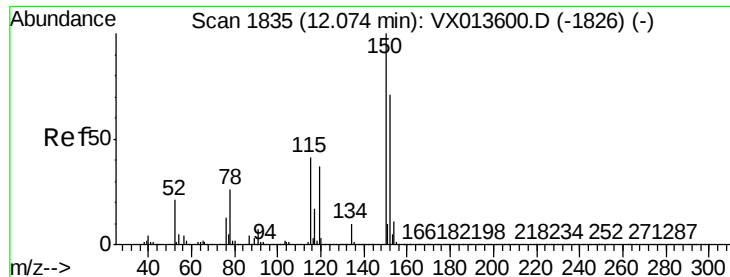
Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.1	41.8	62.8
119	31.9	25.8	38.8



#64
Tetrachloroethene
Concen: 0.290 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX013949.D
Acq: 11 Dec 2019 17:08

Tgt Ion	Ratio	Lower	Upper
164	100		
166	72.9	99.7	149.5#
129	59.5	70.1	105.1#
131	79.7	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: VX013949.D

Acq: 11 Dec 2019 17:08

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203DL

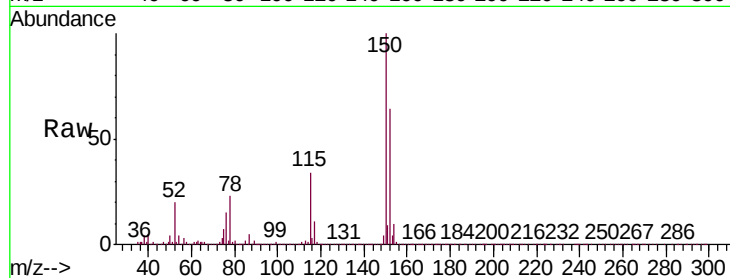
Tgt Ion: 152 Resp: 343155

Ion Ratio Lower Upper

152 100

115 55.5 38.4 115.1

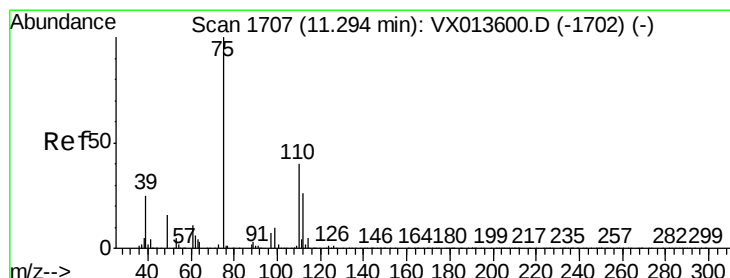
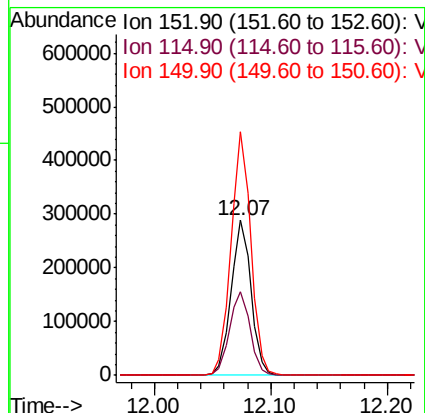
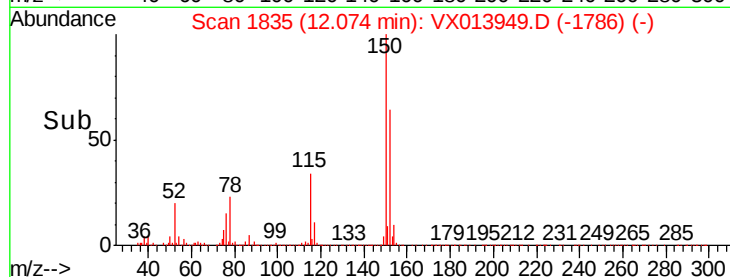
150 156.5 0.0 346.8



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: 21.770 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013949.D

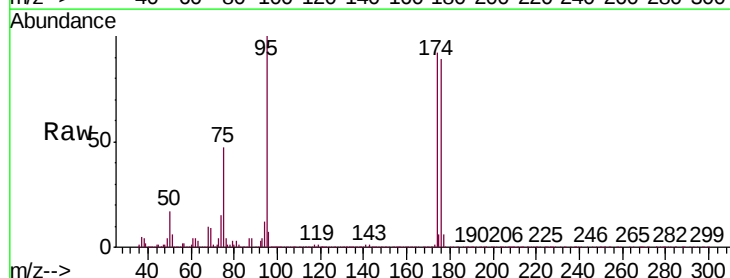
Acq: 11 Dec 2019 17:08

Tgt Ion: 75 Resp: 168023

Ion Ratio Lower Upper

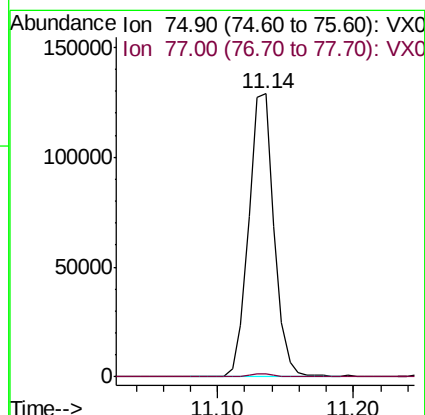
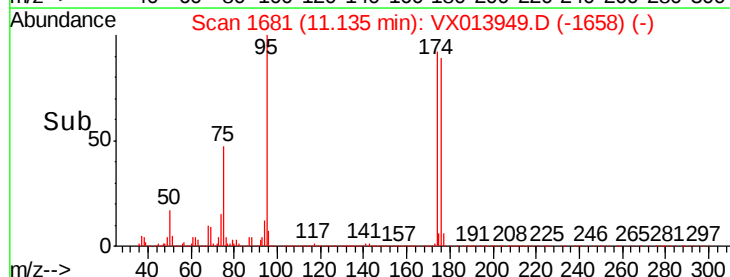
75 100

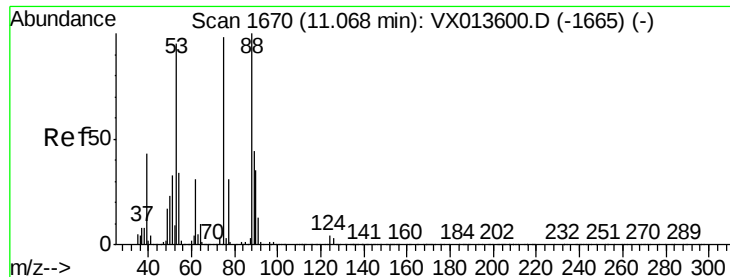
77 1.5 19.1 57.5#



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: 59.558 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203DL

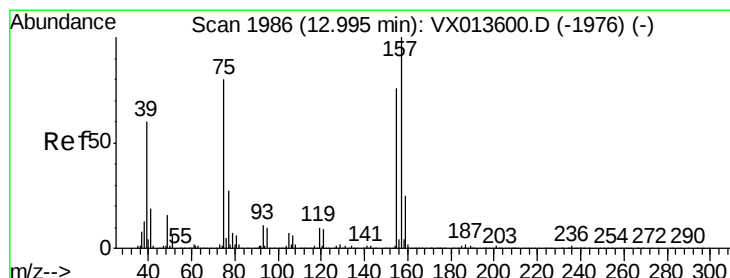
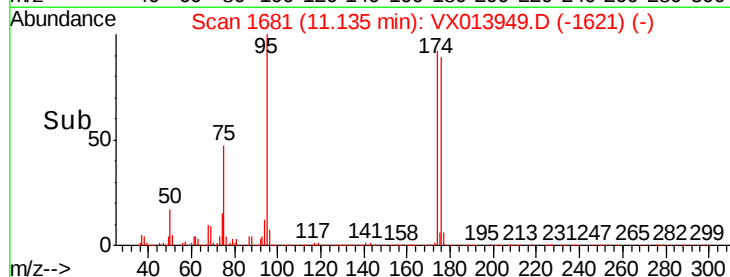
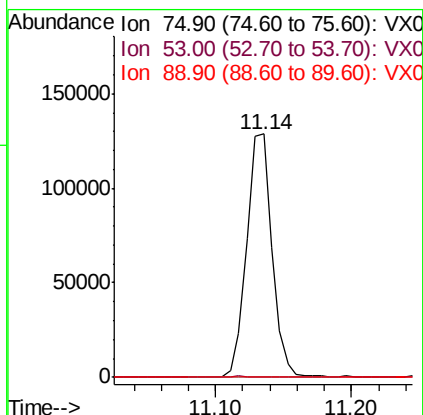
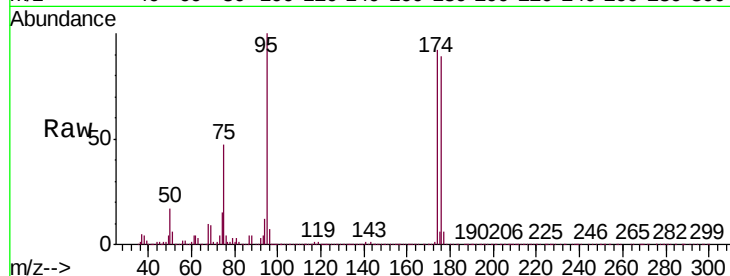
Tgt Ion: 75 Resp: 168023

Ion Ratio Lower Upper

75 100

53 0.6 78.2 117.2#

89 0.0 35.4 53.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.258 ug/l

RT: 12.87 min Scan# 1966

Delta R.T. -0.12 min

Lab File: VX013949.D

Acq: 11 Dec 2019 17:08

Tgt Ion: 75 Resp: 469

Ion Ratio Lower Upper

75 100

155 71.9 47.6 142.8

157 86.8 62.1 186.2

