

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX0137857.D
 Acq On : 09 Dec 2019 17:44
 Operator : JC/SP
 Sample : K6185-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 10 03:27:35 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	617205	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	944438	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	832330	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	359532	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	341498	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	
35) Dibromofluoromethane	5.49	113	285004	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
50) Toluene-d8	8.71	98	1105028	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
62) 4-Bromofluorobenzene	11.13	95	365683	44.58	ug/l	0.00
Spiked Amount			Recovery	=	89.16%	

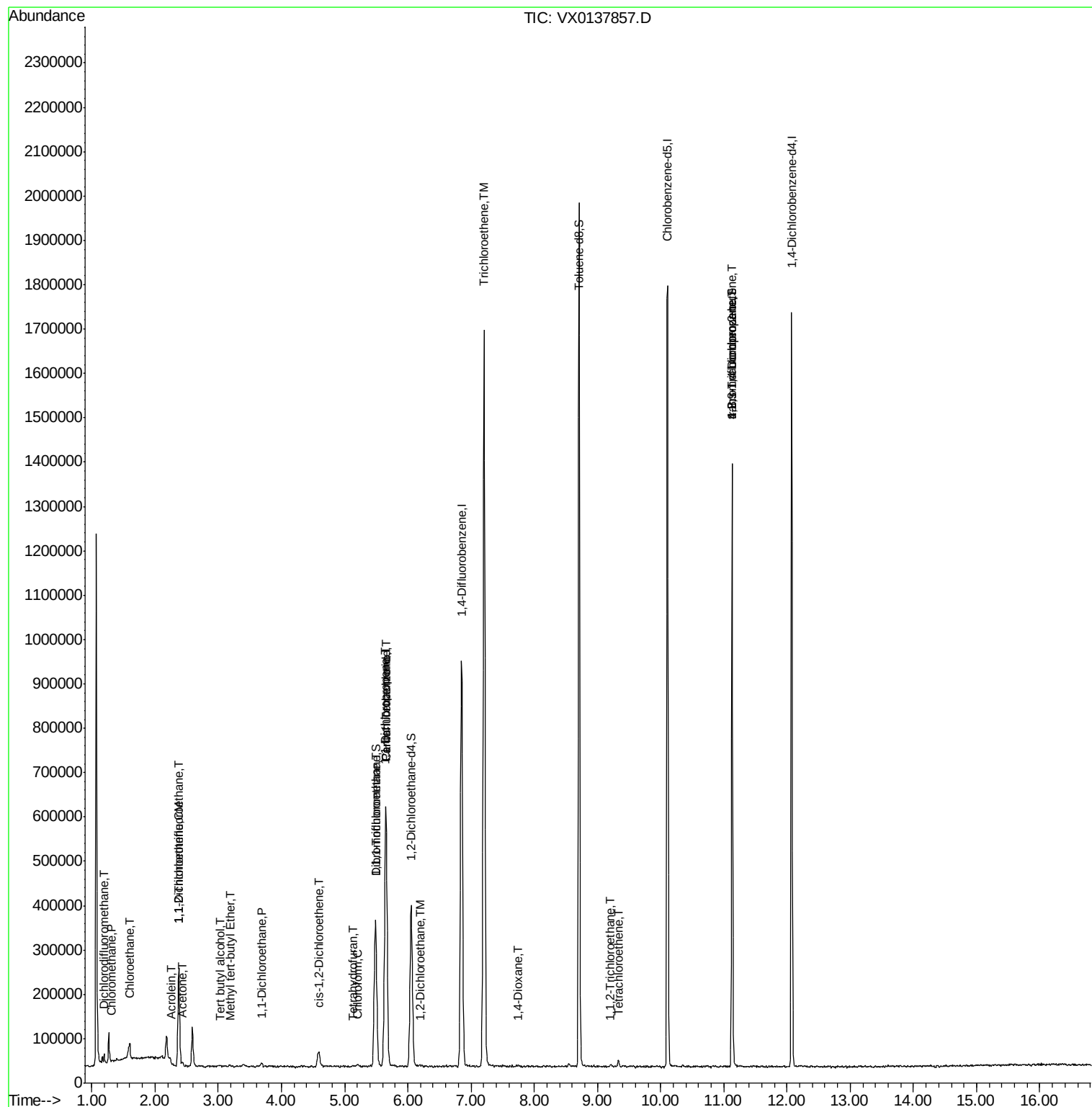
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	7791	1.134	ug/l	89
3) Chloromethane	1.32	50	2005	0.260	ug/l #	62
6) Chloroethane	1.61	64	1118	0.226	ug/l #	41
9) 1,1,2-Trichlorotrifluoroet	2.37	101	80223	13.633	ug/l	99
11) Tert butyl alcohol	3.03	59	5243	2.965	ug/l #	90
12) 1,1-Dichloroethene	2.37	96	15282	2.602	ug/l	95
13) Acrolein	2.26	56	175	6.148	ug/l #	1
16) Acetone	2.43	43	8206	2.320	ug/l	100
19) Methyl tert-butyl Ether	3.19	73	4035	0.207	ug/l	96
24) 1,1-Dichloroethane	3.69	63	9098	0.811	ug/l #	84
27) cis-1,2-Dichloroethene	4.59	96	24564	3.343	ug/l	86
29) Tetrahydrofuran	5.12	42	737	0.227	ug/l #	34
30) Chloroform	5.20	83	6563	0.577	ug/l	93
32) 1,1,1-Trichloroethane	5.49	97	3515	0.370	ug/l #	35
36) 1,1-Dichloropropene	5.64	75	41815	4.877	ug/l #	53
38) Carbon Tetrachloride	5.65	117	51806	6.553	ug/l #	18
42) 1,2-Dichloroethane	6.18	62	4364	0.490	ug/l #	72
44) Trichloroethene	7.21	130	659847	92.079	ug/l	96
49) 1,4-Dioxane	7.74	88	4350	25.261	ug/l #	70
55) 1,1,2-Trichloroethane	9.21	97	2083	0.319	ug/l #	82
64) Tetrachloroethene	9.33	164	3151	0.508	ug/l #	86
76) 1,2,3-Trichloropropane	11.13	75	181919	22.497	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	181919	61.547	ug/l #	11

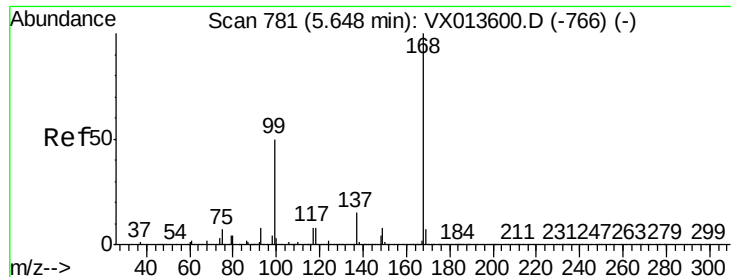
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 782

Delta R.T. 0.01 min

Lab File: VX0137857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

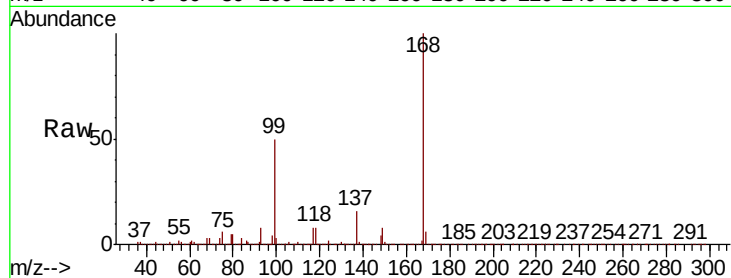
ClientSampled :

Tot Ion:168 Resp: 617205

Ion Ratio Lower Upper

168 100

99 49.6 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

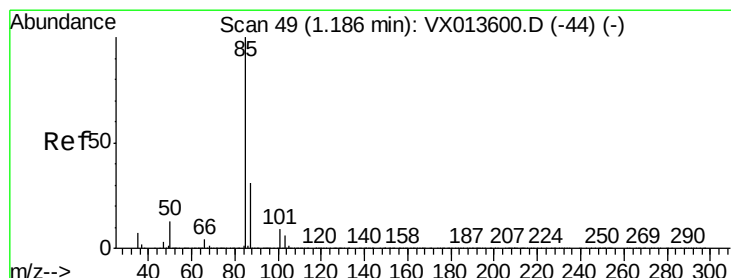
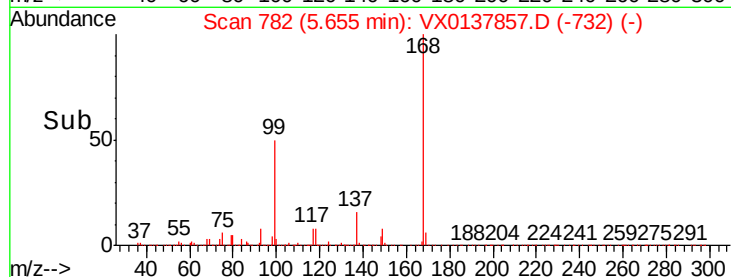
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 1.134 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX0137857.D

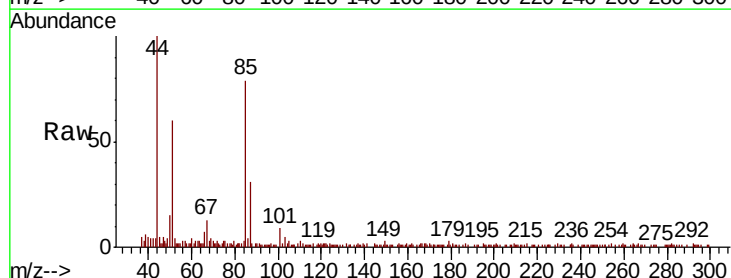
Acq: 09 Dec 2019 17:44

Tgt Ion: 85 Resp: 7791

Ion Ratio Lower Upper

85 100

87 37.4 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

8000

6000

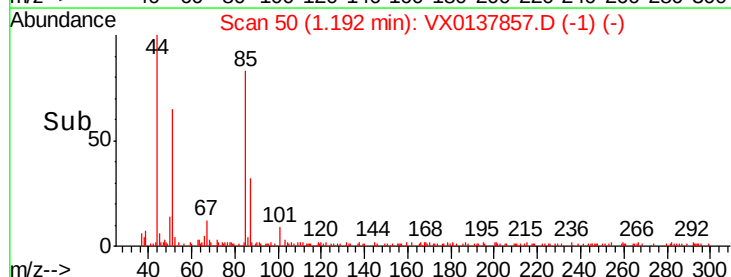
4000

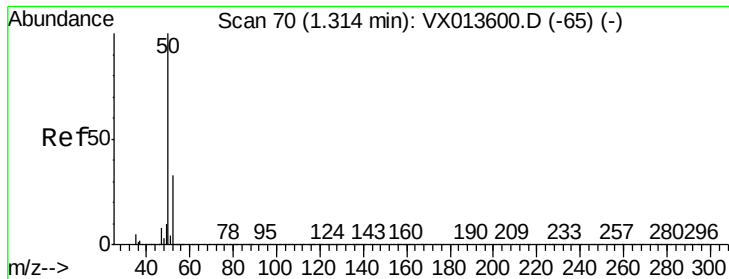
2000

0

Time-->

1.15 1.20 1.25





#3

Chloromethane

Concen: 0.260 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX0137857.D

Acq: 09 Dec 2019 17:44

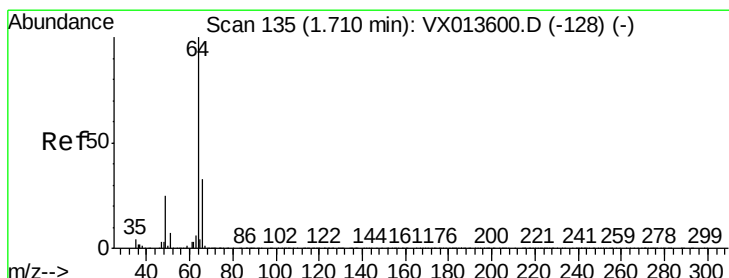
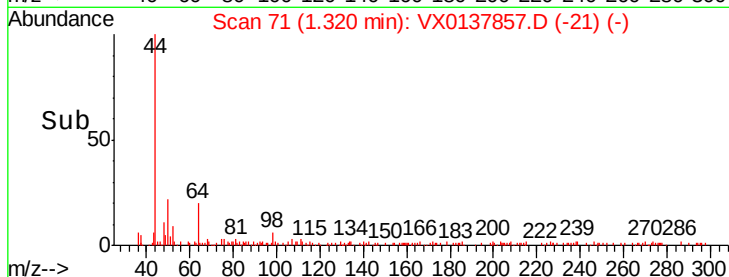
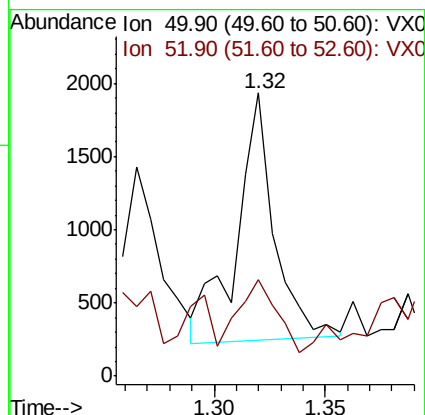
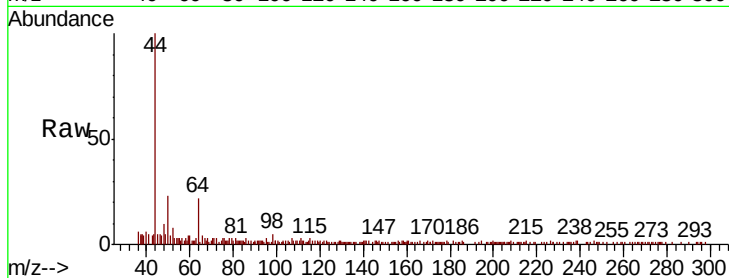
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 50 Resp: 2005

Ion Ratio Lower Upper

50 100

52 11.1 26.0 39.0#



#6

Chloroethane

Concen: 0.226 ug/l

RT: 1.61 min Scan# 118

Delta R.T. -0.10 min

Lab File: VX0137857.D

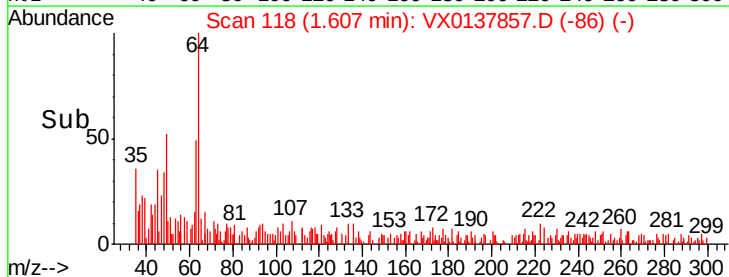
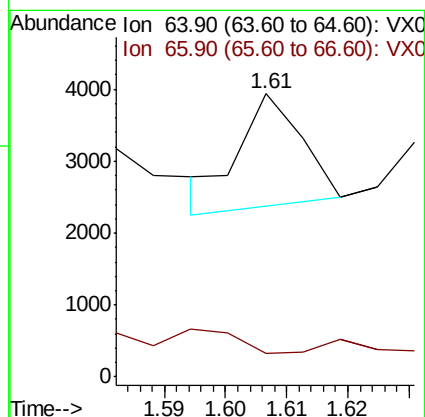
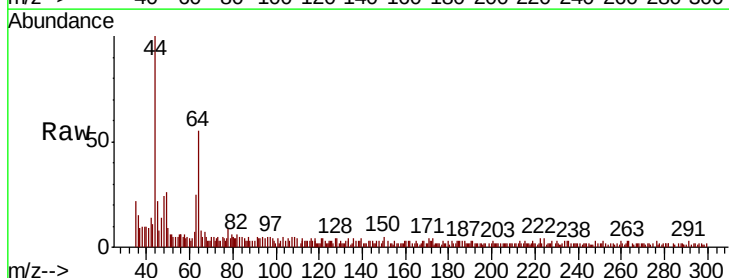
Acq: 09 Dec 2019 17:44

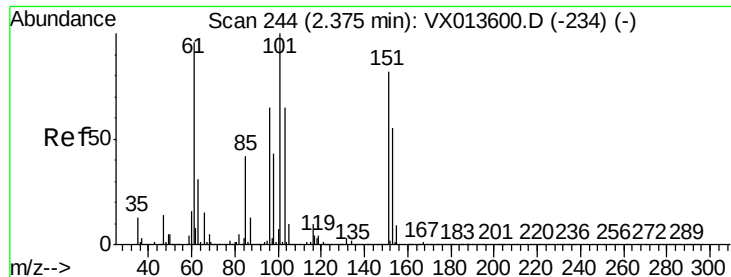
Tgt Ion: 64 Resp: 1118

Ion Ratio Lower Upper

64 100

66 0.0 26.7 40.1#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 13.633 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX0137857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampled :

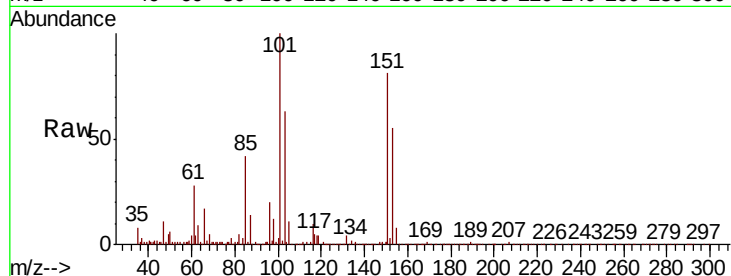
Tot Ion:101 Resp: 80223

Ion Ratio Lower Upper

101 100

85 41.6 33.9 50.9

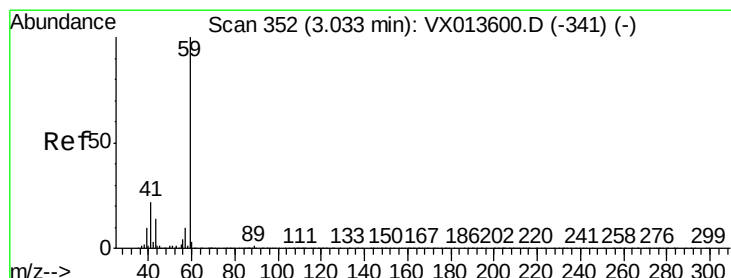
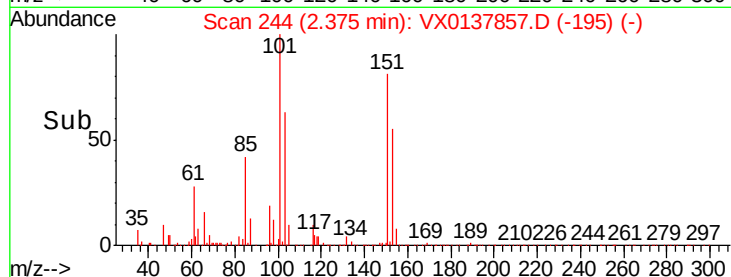
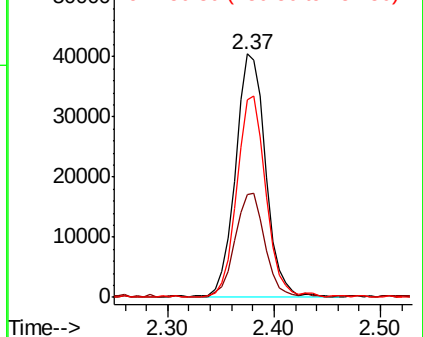
151 80.1 64.2 96.2



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: 2.965 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX0137857.D

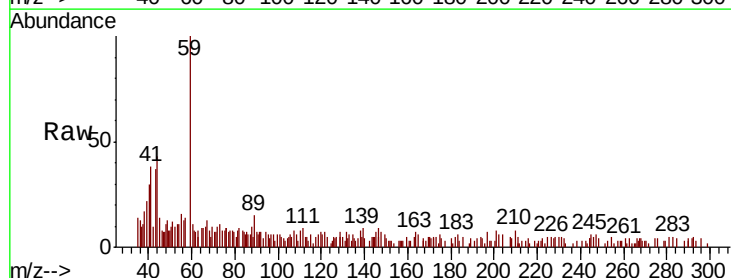
Acq: 09 Dec 2019 17:44

Tgt Ion: 59 Resp: 5243

Ion Ratio Lower Upper

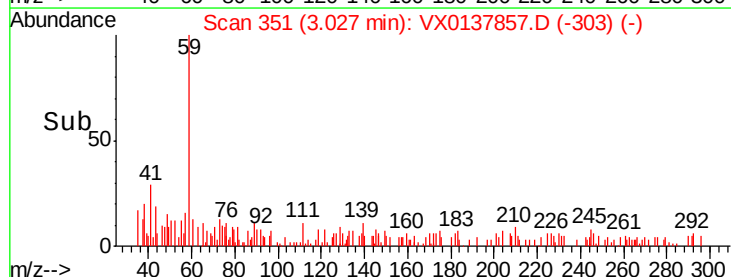
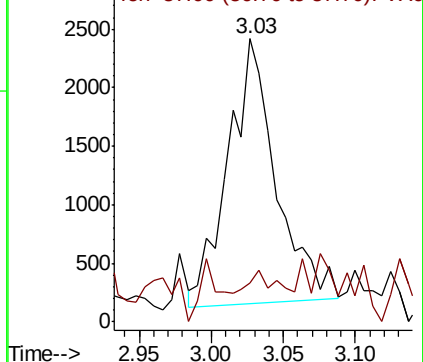
59 100

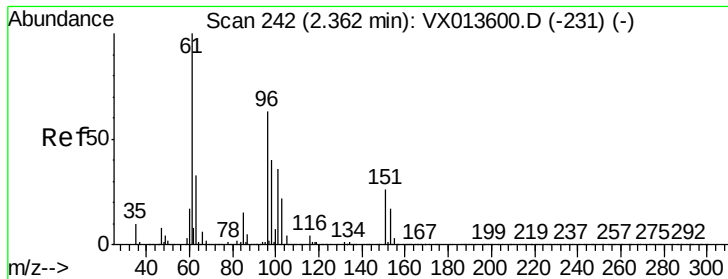
57 5.9 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 2.602 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX0137857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampled :

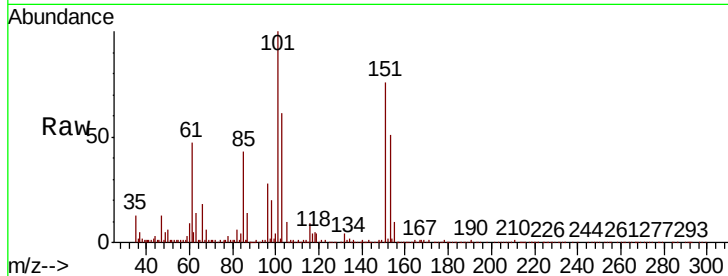
Tot Ion: 96 Resp: 15282

Ion Ratio Lower Upper

96 100

61 163.2 126.6 190.0

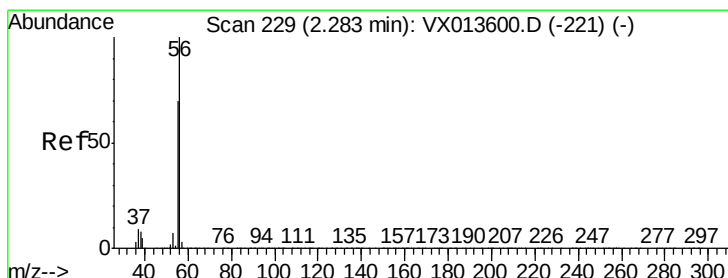
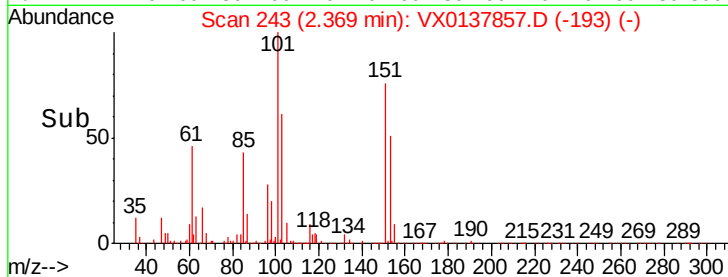
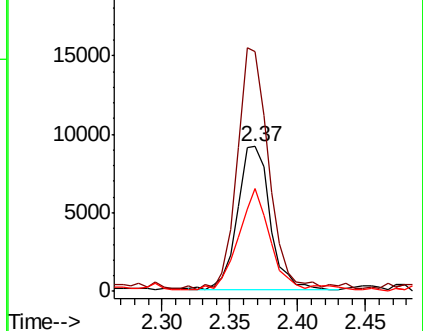
98 71.0 50.6 76.0



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: 6.148 ug/l

RT: 2.26 min Scan# 226

Delta R.T. -0.02 min

Lab File: VX0137857.D

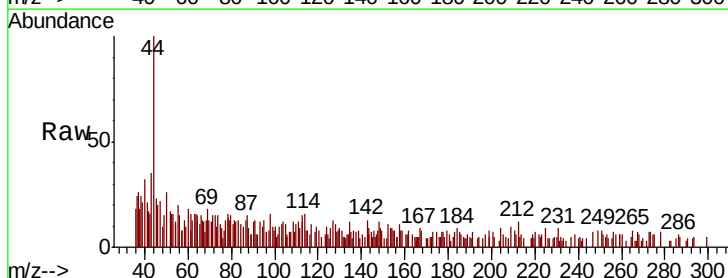
Acq: 09 Dec 2019 17:44

Tgt Ion: 56 Resp: 175

Ion Ratio Lower Upper

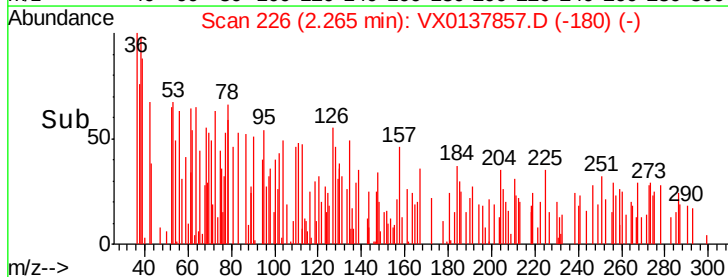
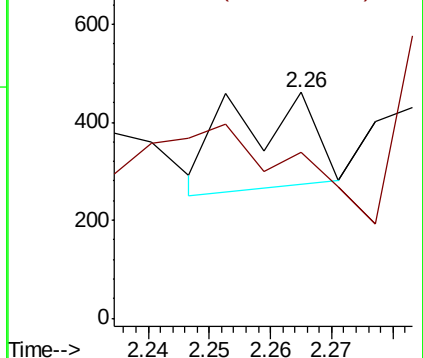
56 100

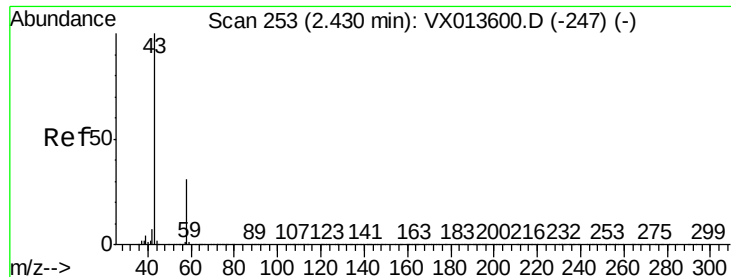
55 184.0 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.320 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX0137857.D

Acq: 09 Dec 2019 17:44

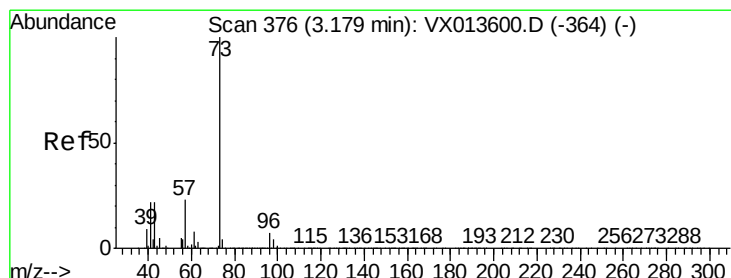
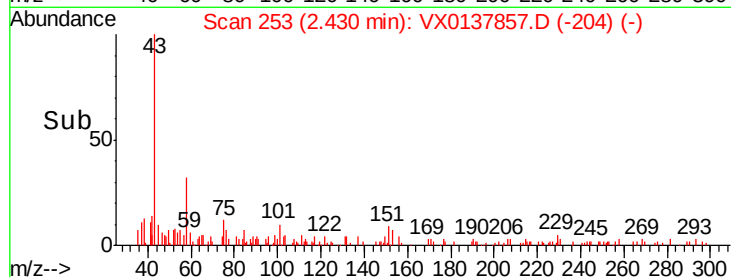
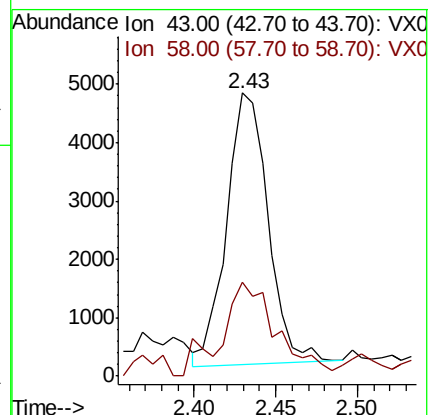
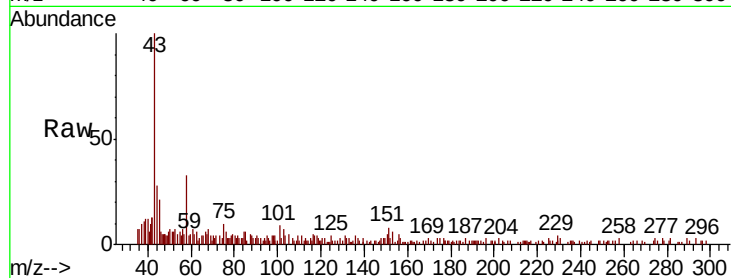
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 8206

Ion Ratio Lower Upper

43 100

58 30.6 24.6 36.8



#19

Methyl tert-butyl Ether

Concen: 0.207 ug/l

RT: 3.19 min Scan# 377

Delta R.T. 0.01 min

Lab File: VX0137857.D

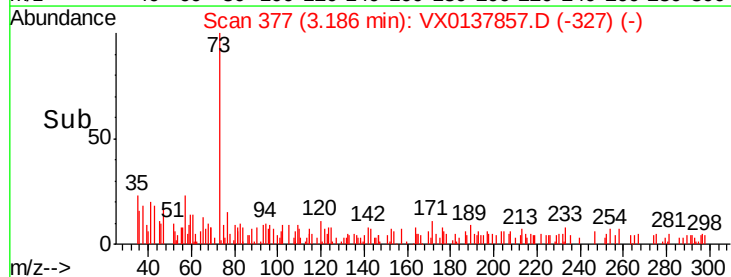
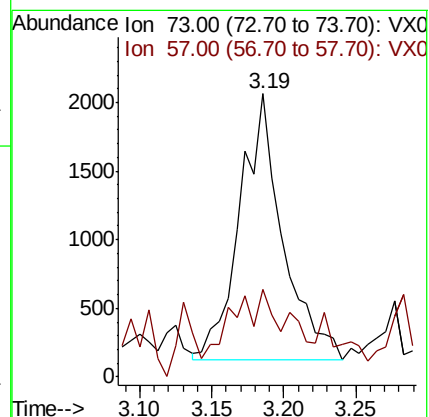
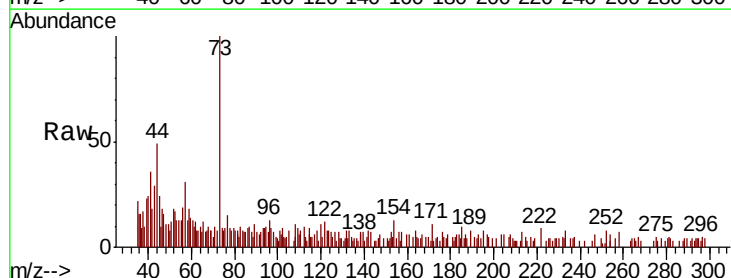
Acq: 09 Dec 2019 17:44

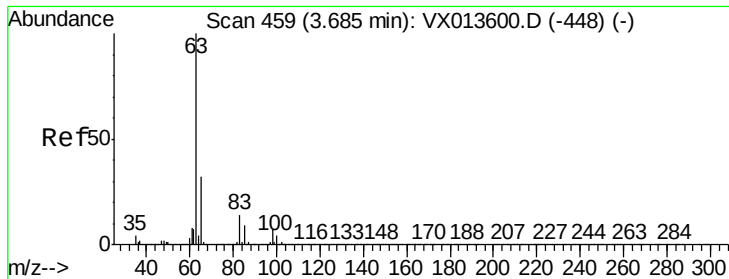
Tgt Ion: 73 Resp: 4035

Ion Ratio Lower Upper

73 100

57 20.8 18.3 27.5





#24

1,1-Dichloroethane

Concen: 0.811 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX0137857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

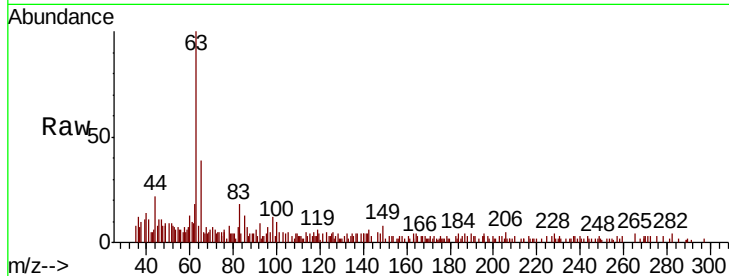
Tot Ion: 63 Resp: 9098

Ion Ratio Lower Upper

63 100

98 12.8 3.5 10.4#

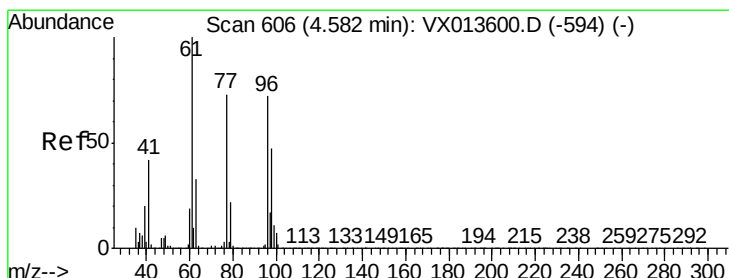
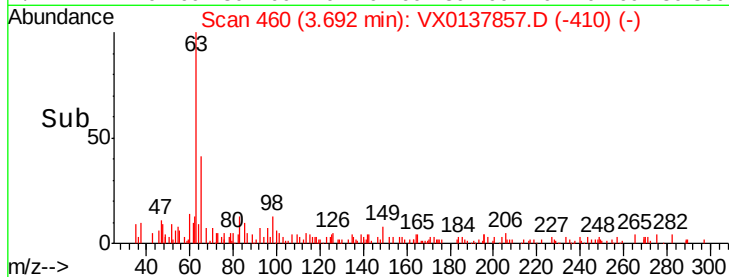
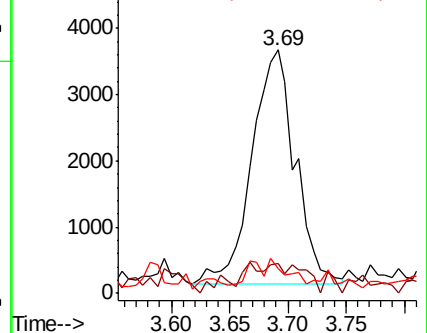
100 8.5 2.1 6.3#



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: 3.343 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX0137857.D

Acq: 09 Dec 2019 17:44

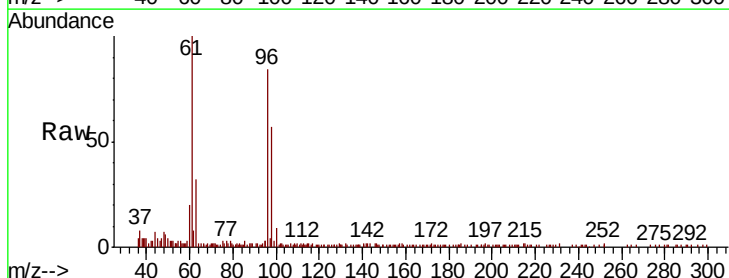
Tgt Ion: 96 Resp: 24564

Ion Ratio Lower Upper

96 100

61 119.2 0.0 286.4

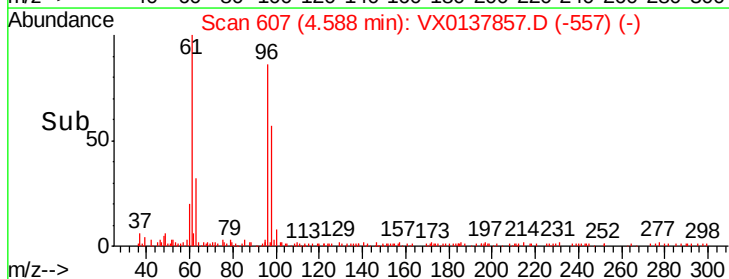
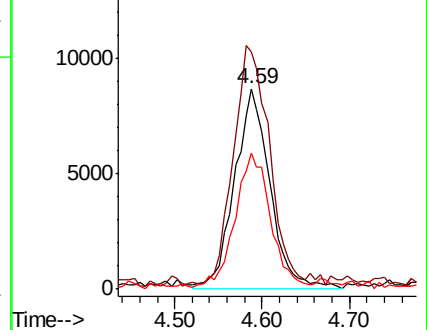
98 65.9 0.0 127.4

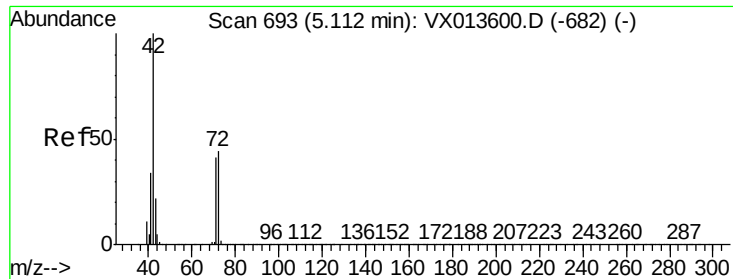


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 0.227 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX0137857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampled :

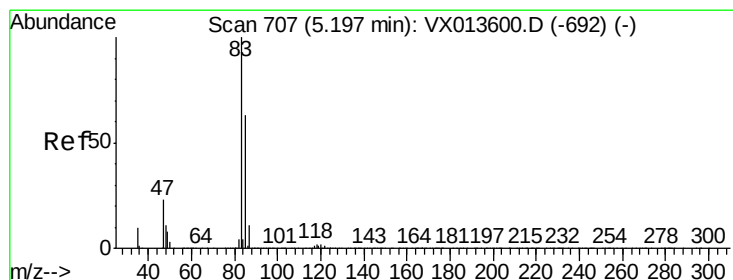
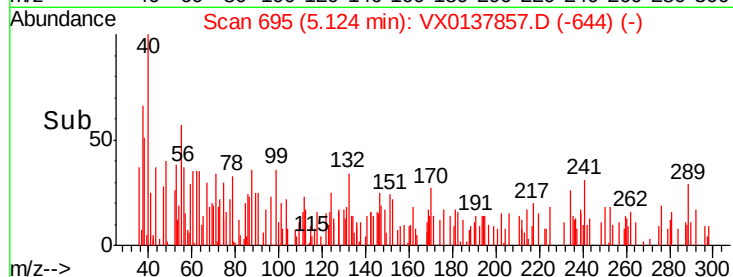
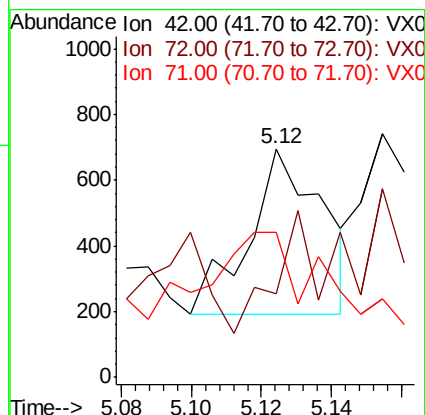
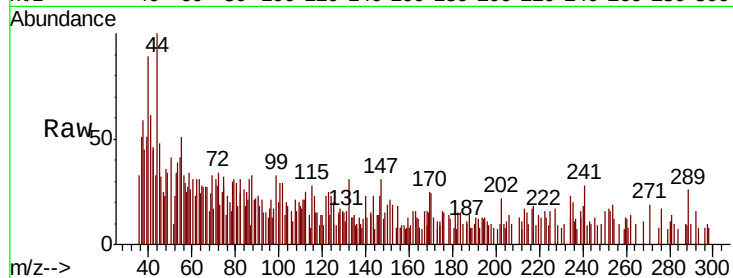
Tot Ion: 42 Resp: 737

Ion Ratio Lower Upper

42 100

72 36.9 36.3 54.5

71 120.1 33.2 49.8#



#30

Chloroform

Concen: 0.577 ug/l

RT: 5.20 min Scan# 707

Delta R.T. 0.00 min

Lab File: VX0137857.D

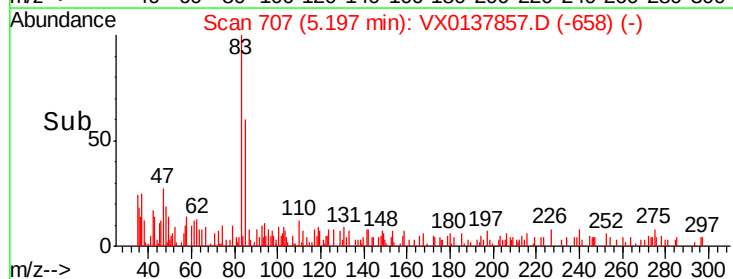
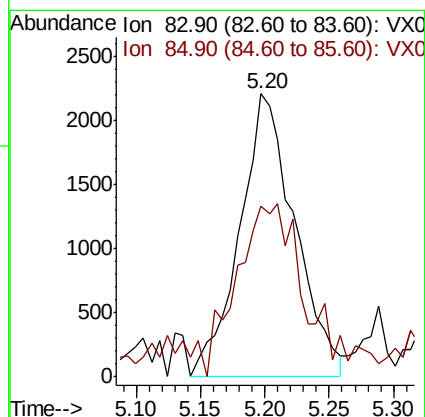
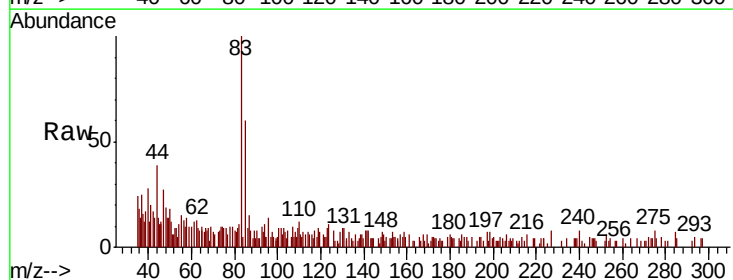
Acq: 09 Dec 2019 17:44

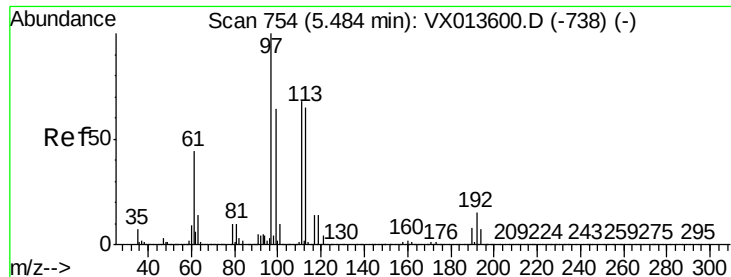
Tgt Ion: 83 Resp: 6563

Ion Ratio Lower Upper

83 100

85 57.4 50.2 75.4





#32

1,1,1-Trichloroethane

Concen: 0.370 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX0137857.D

Acq: 09 Dec 2019 17:44

Instrument :
MSVOA_X
ClientSampleId :

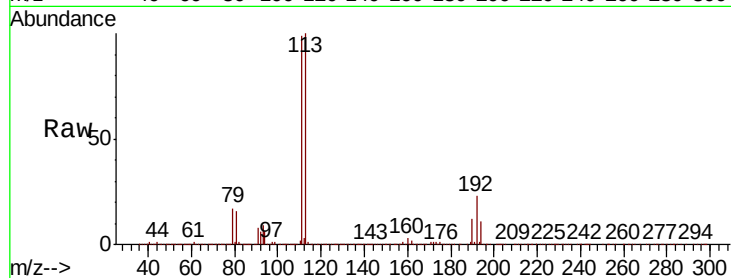
Tot Ion: 97 Resp: 3515

Ion Ratio Lower Upper

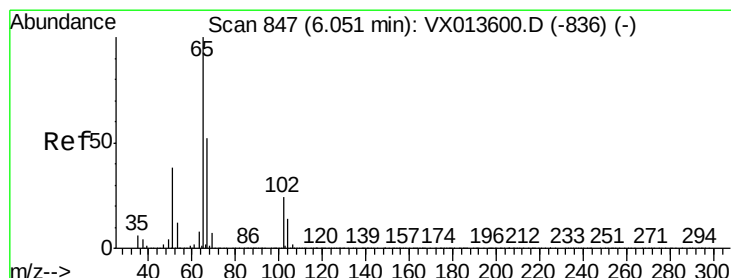
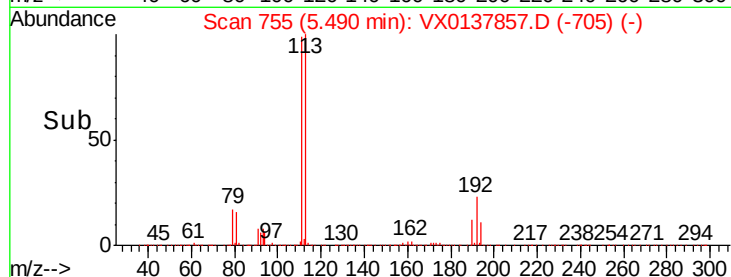
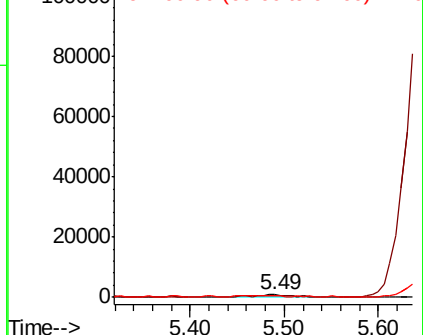
97 100

99 0.0 51.6 77.4#

61 17.8 36.1 54.1#



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.666 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX0137857.D

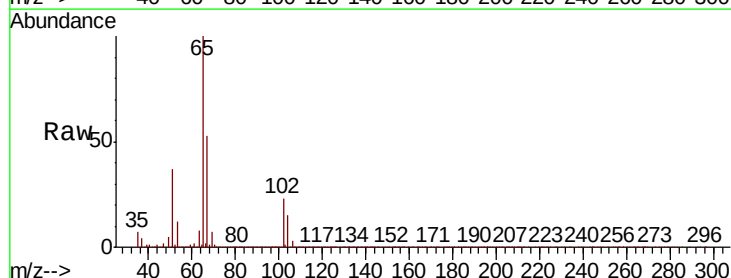
Acq: 09 Dec 2019 17:44

Tgt Ion: 65 Resp: 341498

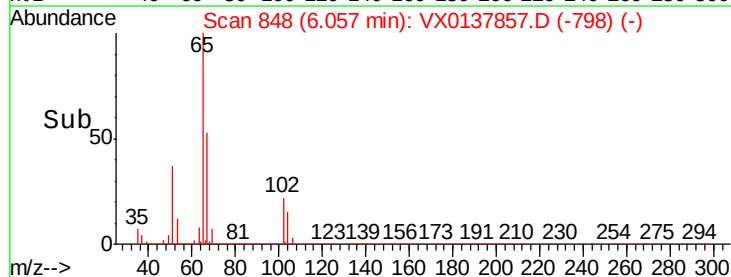
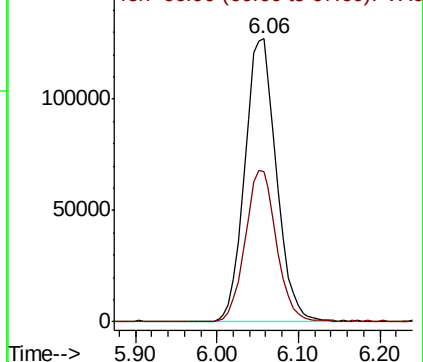
Ion Ratio Lower Upper

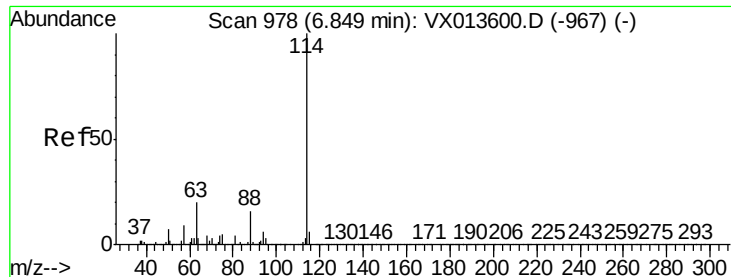
65 100

67 52.7 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX0137857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

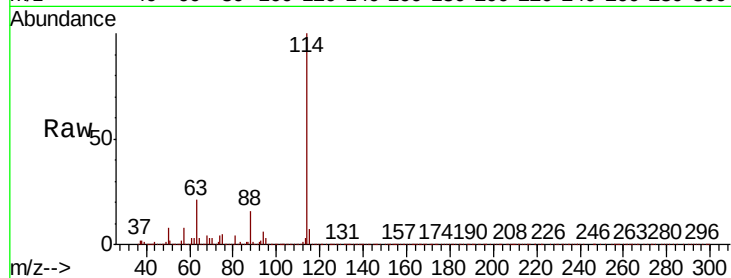
Tot Ion:114 Resp: 944438

Ion Ratio Lower Upper

114 100

63 21.1 0.0 39.6

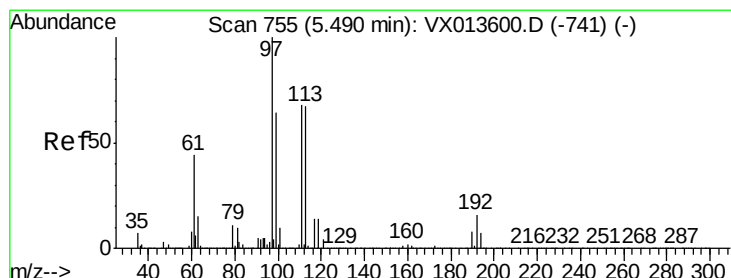
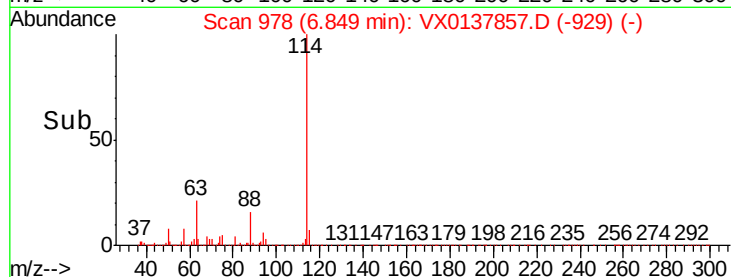
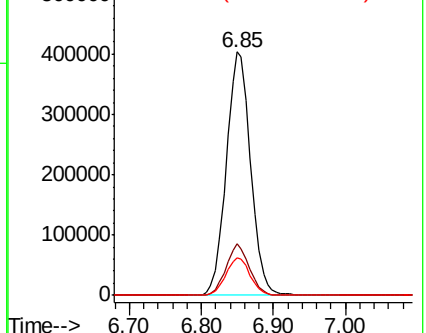
88 15.5 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.814 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX0137857.D

Acq: 09 Dec 2019 17:44

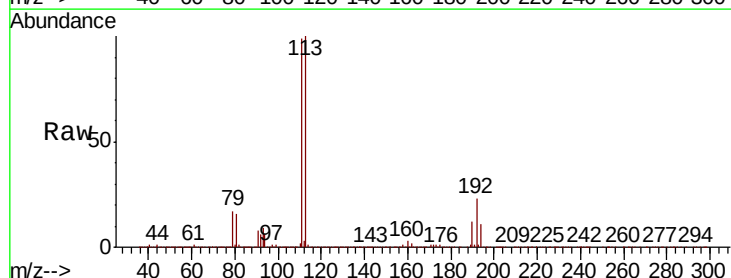
Tgt Ion:113 Resp: 285004

Ion Ratio Lower Upper

113 100

111 101.2 83.6 125.4

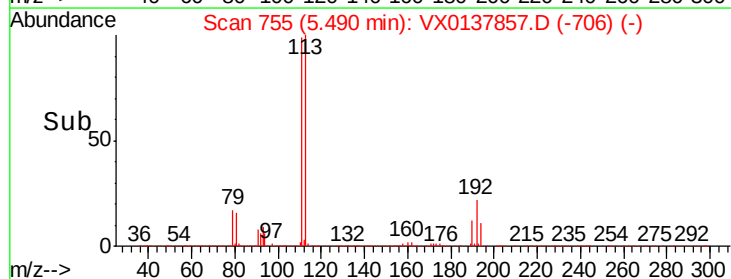
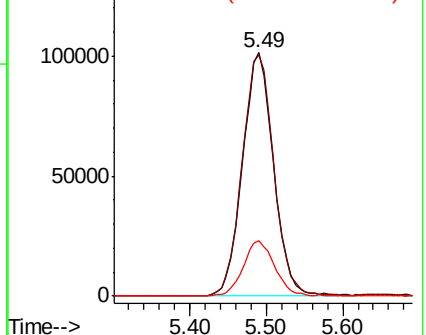
192 23.1 19.2 28.8

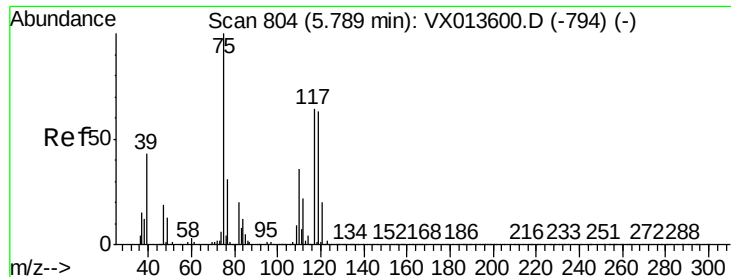


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

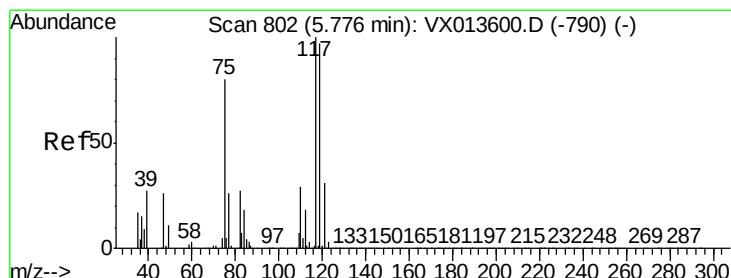
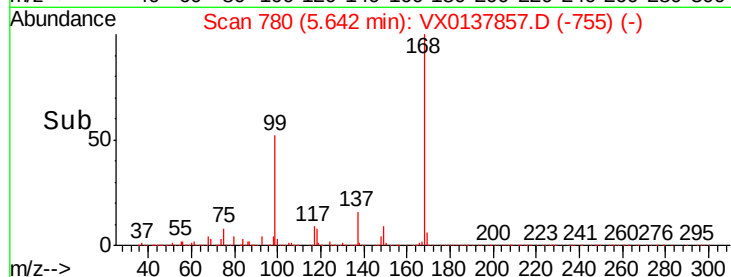
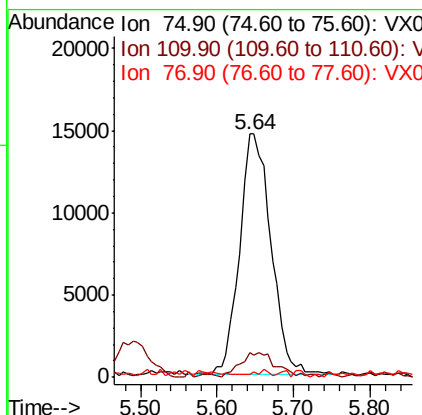
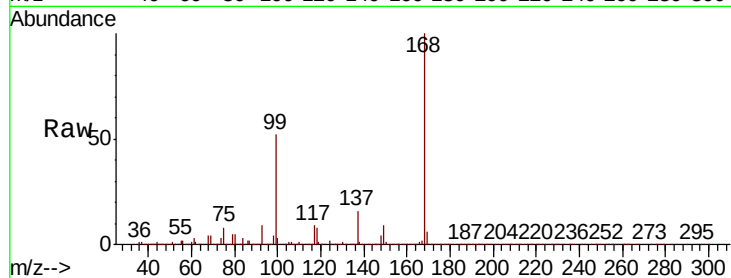




#36
 1,1-Dichloropropene
 Concen: 4.877 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX0137857.D
 Acq: 09 Dec 2019 17:44

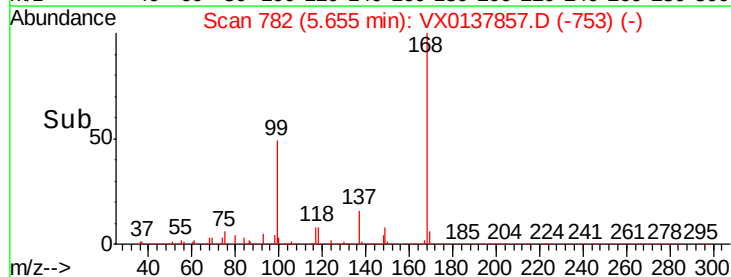
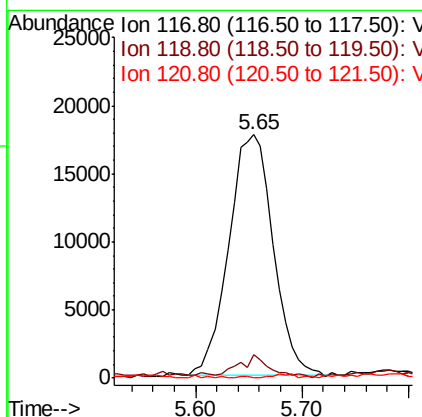
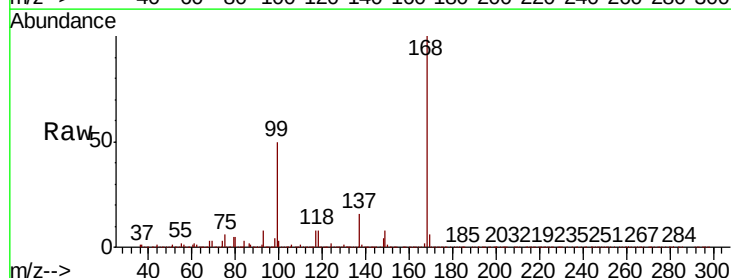
Instrument :
 MSVOA_X
 ClientSampleId :

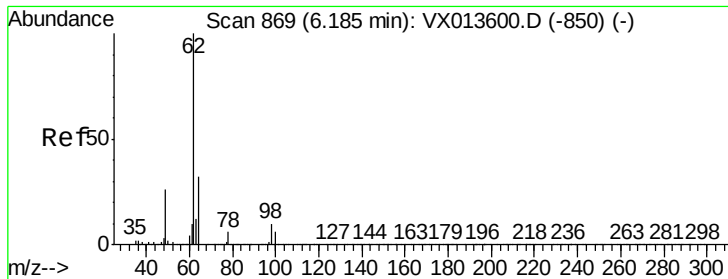
Tot Ion	Ratio	Lower	Upper
75	100		
110	12.0	18.1	54.1#
77	0.8	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.553 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX0137857.D
 Acq: 09 Dec 2019 17:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	8.6	77.5	116.3#
121	0.1	25.0	37.6#





#42

1,2-Dichloroethane

Concen: 0.490 ug/l

RT: 6.18 min Scan# 869

Delta R.T. 0.00 min

Lab File: VX0137857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

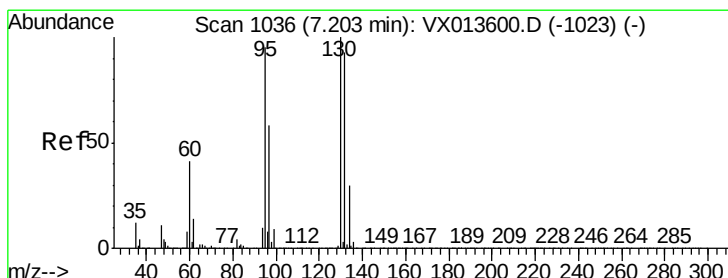
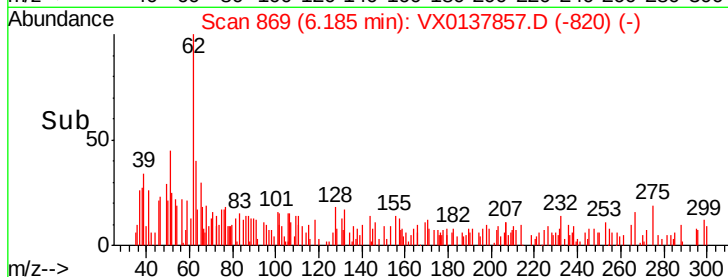
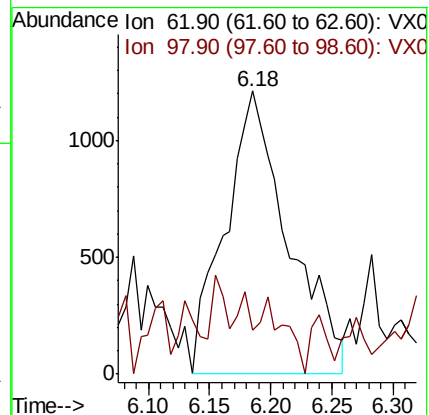
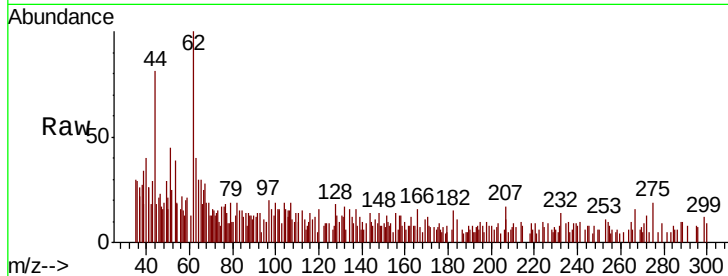
ClientSampled :

Tot Ion: 62 Resp: 4364

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8



#44

Trichloroethene

Concen: 92.079 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX0137857.D

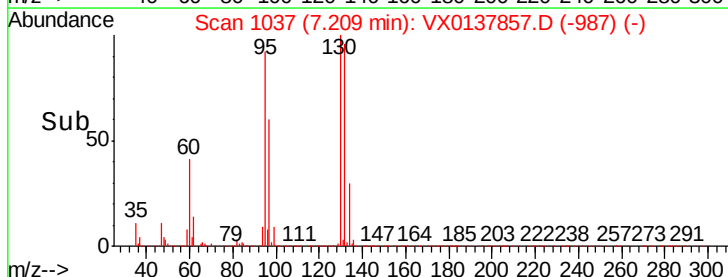
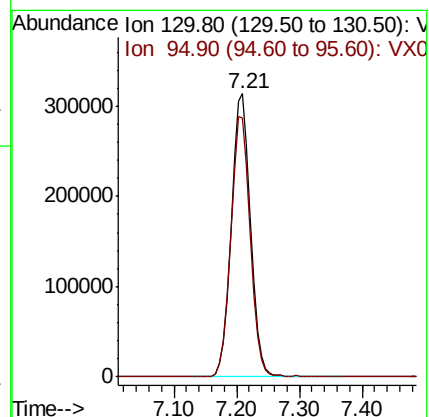
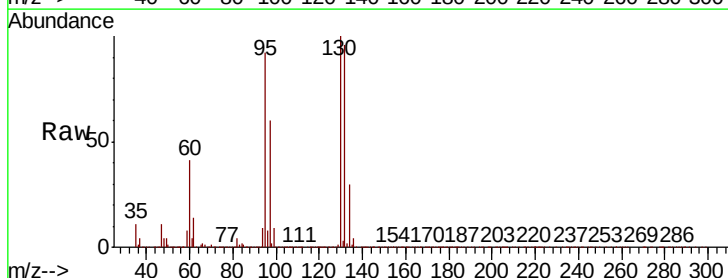
Acq: 09 Dec 2019 17:44

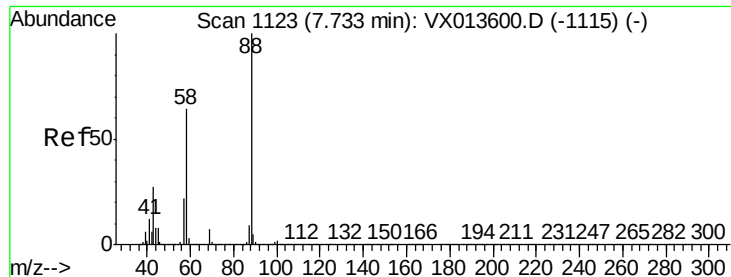
Tgt Ion:130 Resp: 659847

Ion Ratio Lower Upper

130 100

95 91.7 0.0 190.8

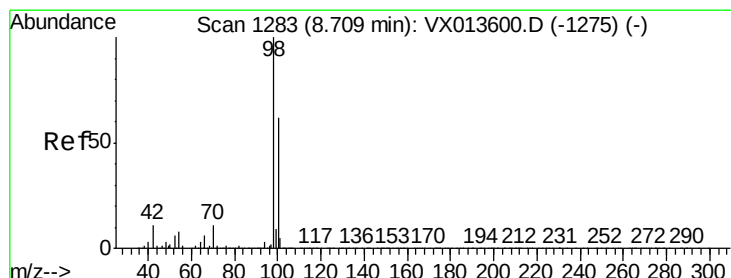
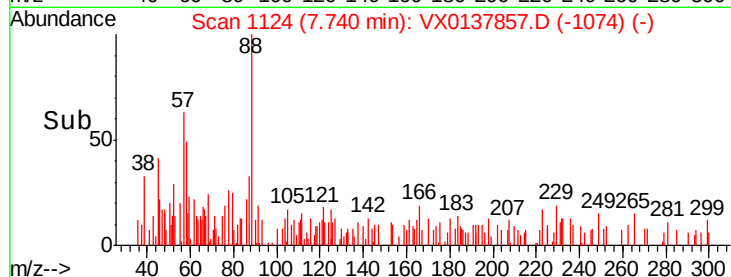
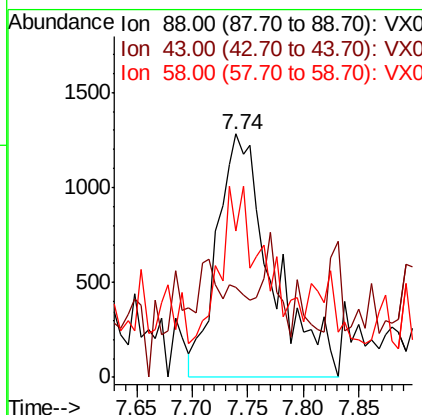
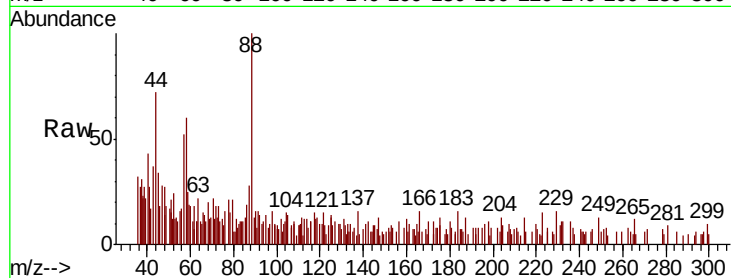




#49
1,4-Dioxane
Concen: 25.261 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VX0137857.D
Acq: 09 Dec 2019 17:44

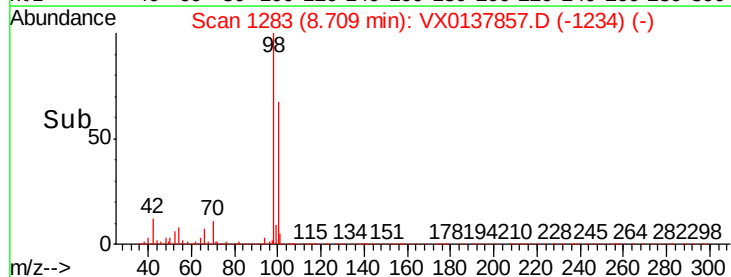
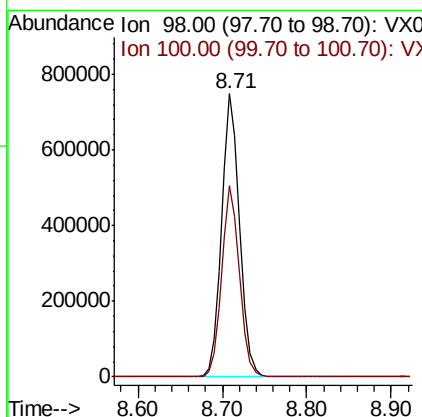
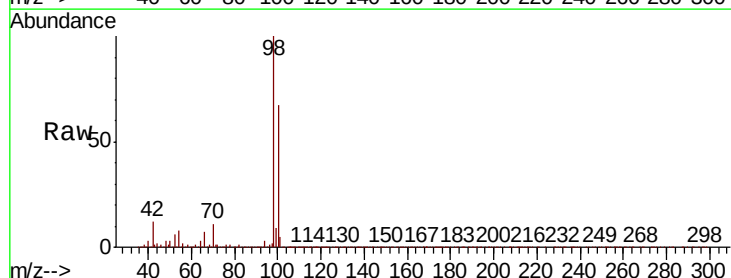
Instrument :
MSVOA_X
ClientSampleId :

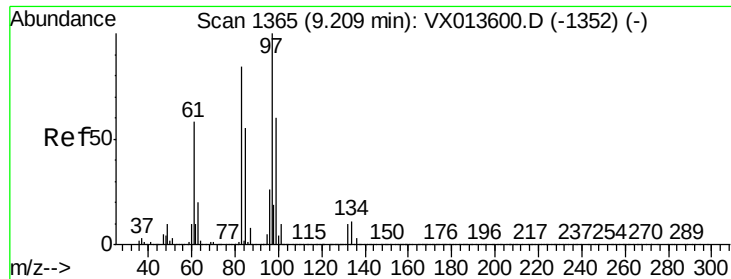
Tot Ion: 88 Resp: 4350
Ion Ratio Lower Upper
88 100
43 0.0 25.8 38.6#
58 54.4 54.6 82.0#



#50
Toluene-d8
Concen: 48.577 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX0137857.D
Acq: 09 Dec 2019 17:44

Tgt Ion: 98 Resp: 1105028
Ion Ratio Lower Upper
98 100
100 66.5 53.1 79.7

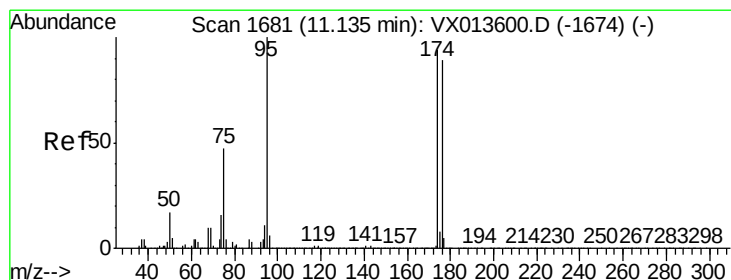
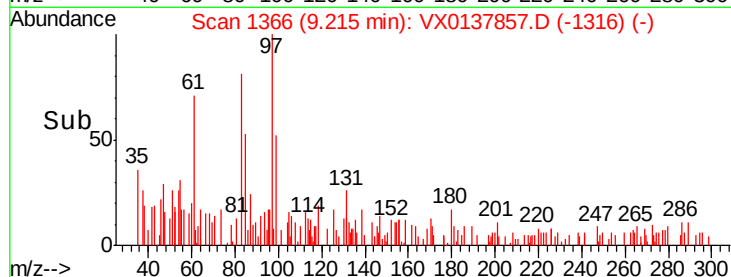
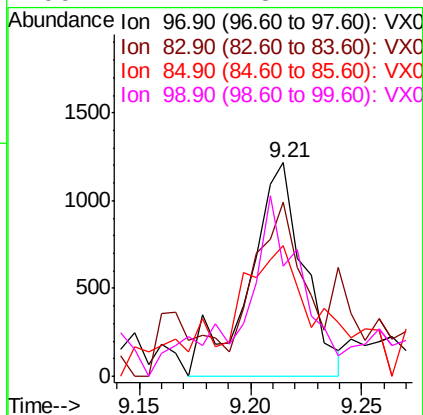
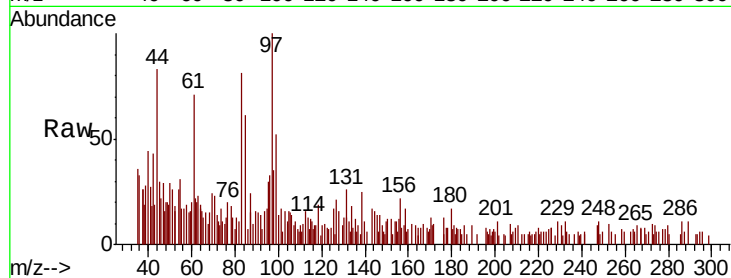




#55
 1,1,2-Trichloroethane
 Concen: 0.319 ug/l
 RT: 9.21 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VX0137857.D
 Acq: 09 Dec 2019 17:44

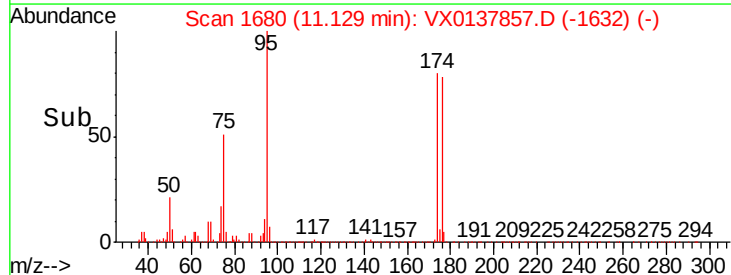
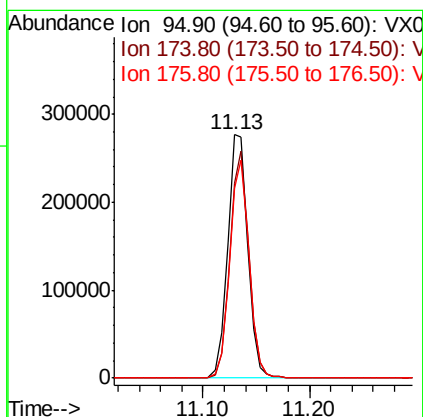
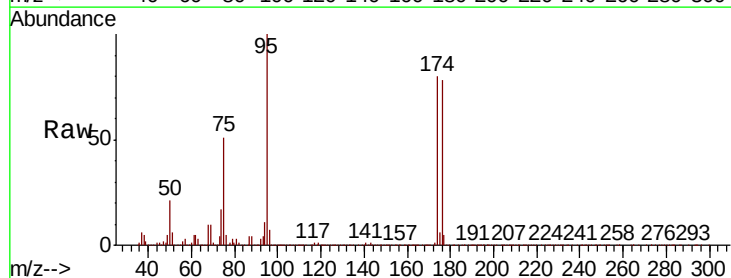
Instrument :
 MSVOA_X
 ClientSampleId :

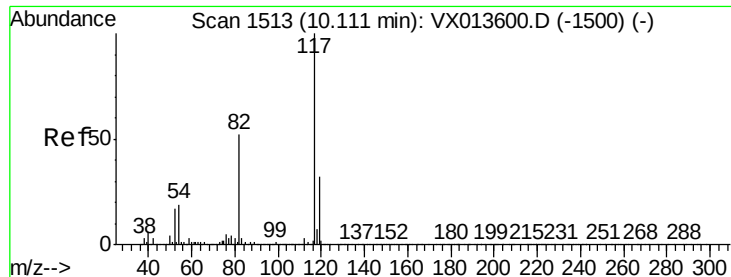
Tot Ion:	97	Resp:	2083
Ion	Ratio	Lower	Upper
97	100		
83	64.8	67.3	100.9#
85	50.1	43.6	65.4
99	42.2	48.2	72.4#



#62
 4-Bromofluorobenzene
 Concen: 44.579 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.01 min
 Lab File: VX0137857.D
 Acq: 09 Dec 2019 17:44

Tgt Ion:	95	Resp:	365683
Ion	Ratio	Lower	Upper
95	100		
174	88.6	0.0	180.0
176	86.6	0.0	173.6

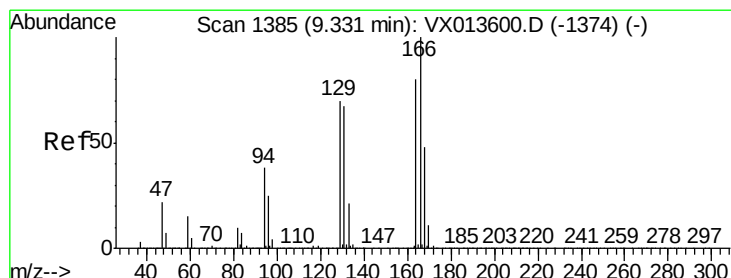
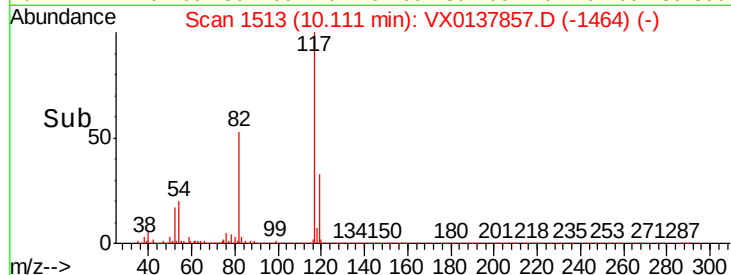
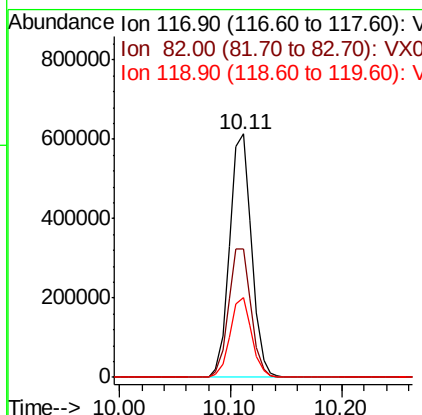
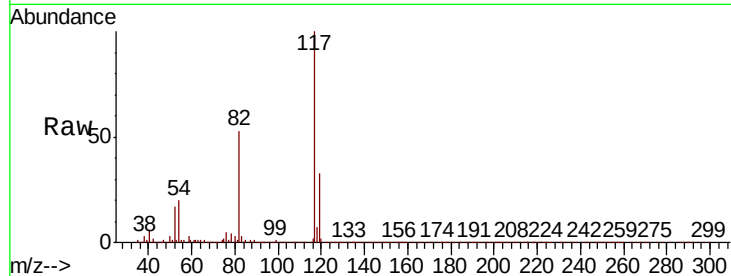




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX0137857.D
Acq: 09 Dec 2019 17:44

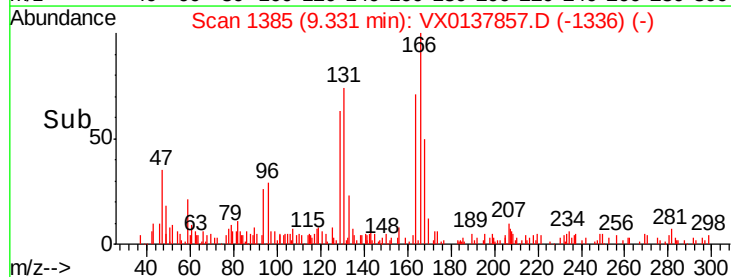
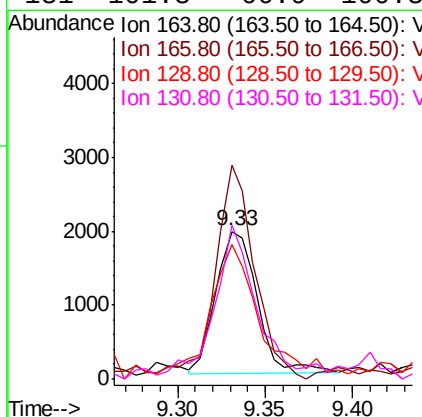
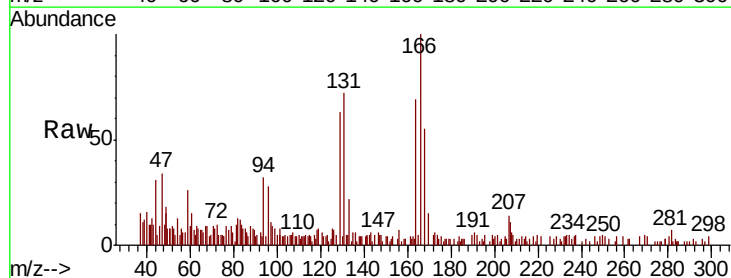
Instrument :
MSVOA_X
ClientSampled :

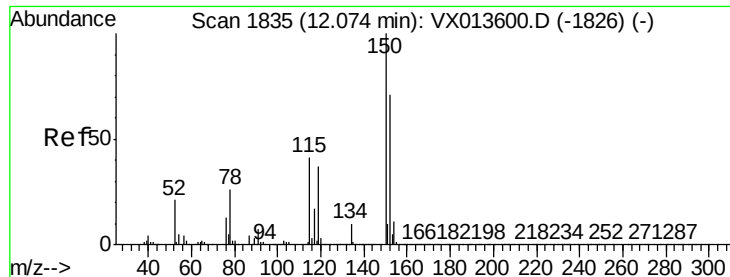
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	41.8	62.8
119	32.9	25.8	38.8



#64
Tetrachloroethene
Concen: 0.508 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX0137857.D
Acq: 09 Dec 2019 17:44

Tgt Ion	Ratio	Lower	Upper
164	100		
166	146.2	99.7	149.5
129	90.4	70.1	105.1
131	101.3	66.9	100.3#



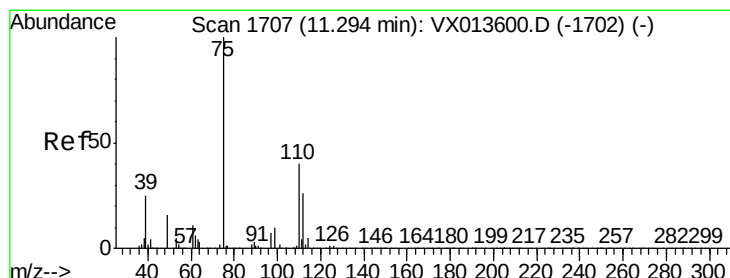
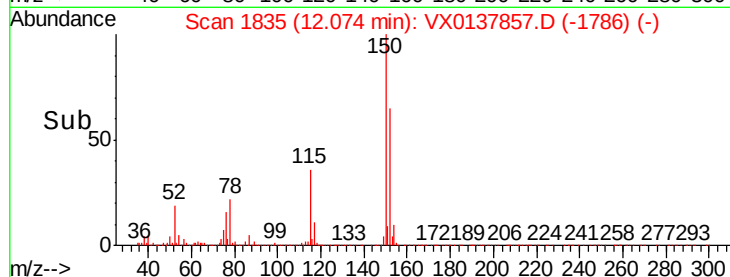
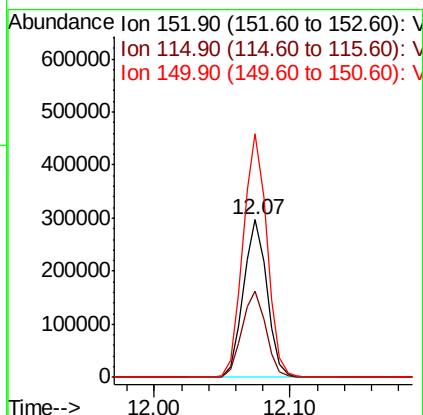
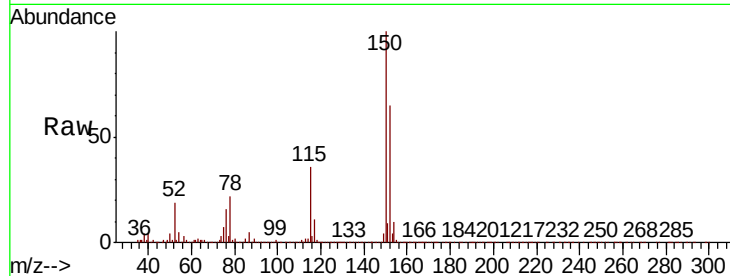


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX0137857.D
Acq: 09 Dec 2019 17:44

Instrument :
MSVOA_X
ClientSampleId :

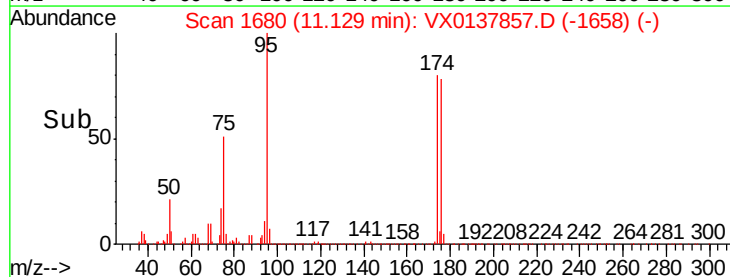
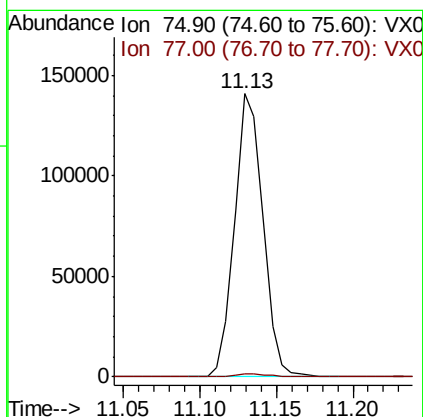
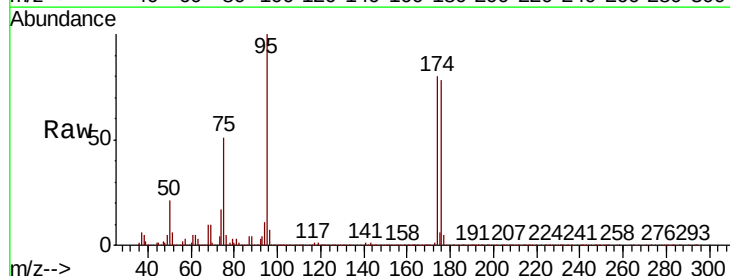
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.5	38.4	115.1
150	156.6	0.0	346.8

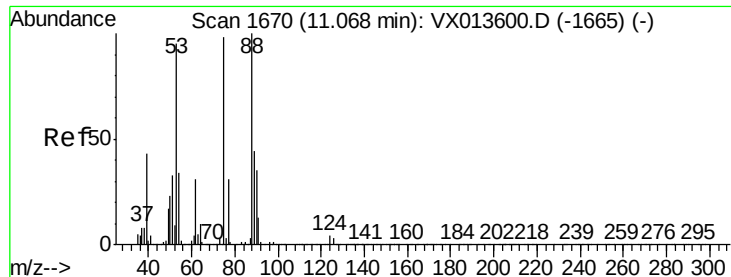


#76

1,2,3-Trichloropropane
Concen: 22.497 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX0137857.D
Acq: 09 Dec 2019 17:44

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	19.1	57.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 61.547 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX0137857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

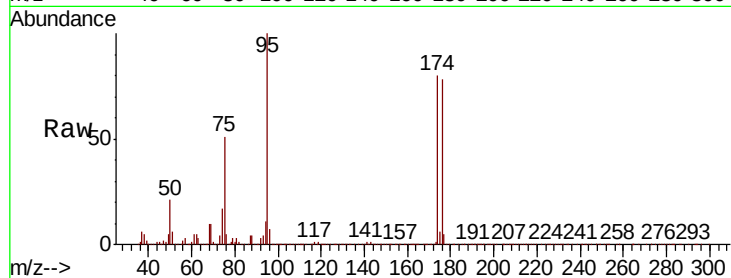
Tot Ion: 75 Resp: 181919

Ion Ratio Lower Upper

75 100

53 0.5 78.2 117.2#

89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

