

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX013857.D
 Acq On : 09 Dec 2019 17:44
 Operator : JC/SP
 Sample : K6185-14RE
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D-20191205RE

Quant Time: Dec 12 08:11:16 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

33) 1,2-Dichloroethane-d4	6.06	65	341498	47.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.34%	
35) Dibromofluoromethane	5.49	113	285004	48.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.62%	
50) Toluene-d8	8.71	98	1105028	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	
62) 4-Bromofluorobenzene	11.13	95	365683	44.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.16%	

Target Compounds

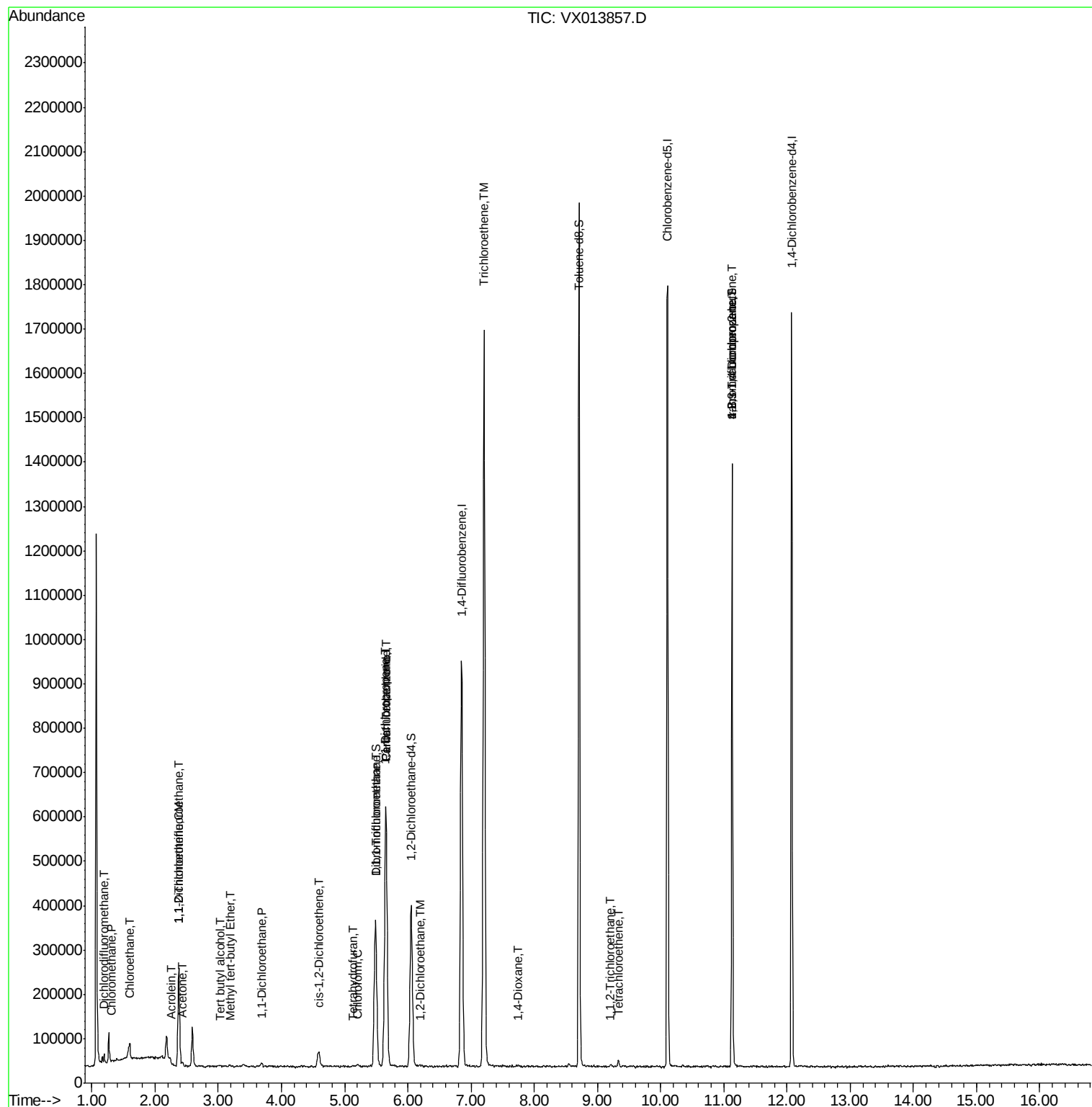
						Qvalue
2) Dichlorodifluoromethane	1.19	85	7791	1.134	ug/l	89
3) Chloromethane	1.32	50	2005	0.260	ug/l #	62
6) Chloroethane	1.61	64	1118	0.226	ug/l #	41
9) 1,1,2-Trichlorotrifluoroet	2.37	101	80223	13.633	ug/l	99
11) Tert butyl alcohol	3.03	59	5243	2.965	ug/l #	90
12) 1,1-Dichloroethene	2.37	96	15282	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: VX013857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

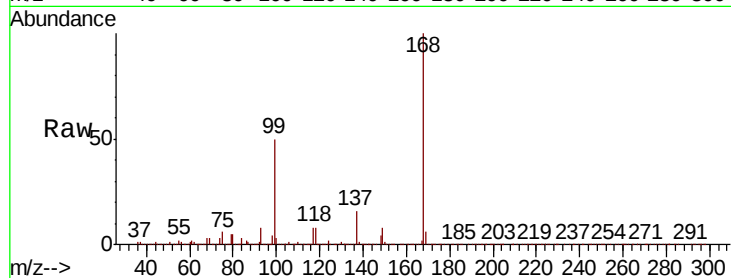
TT101D-20191205RE

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

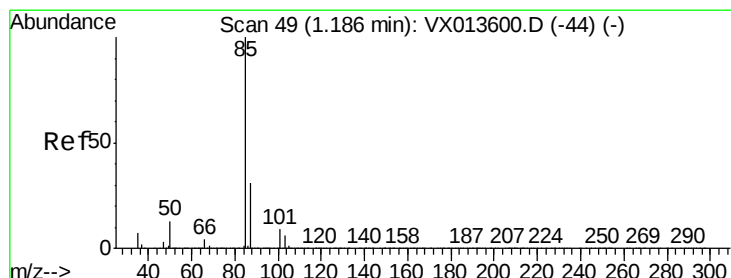
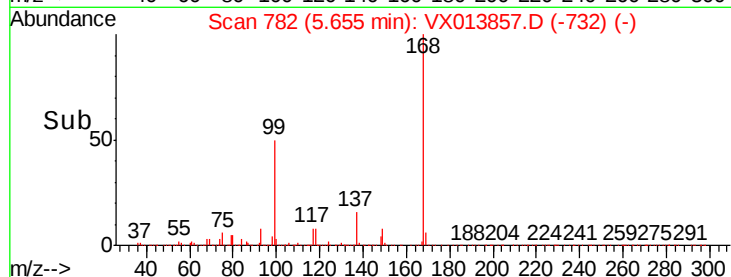
100000

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: VX013857.D

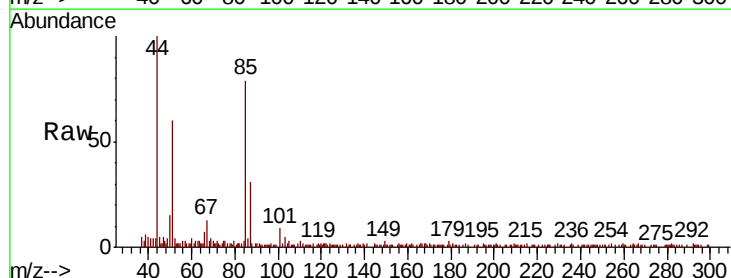
Acq: 09 Dec 2019 17:44

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

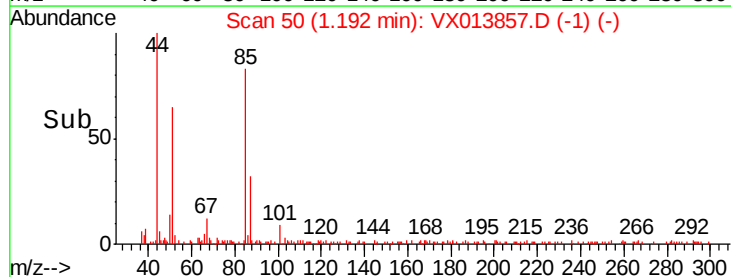
4000

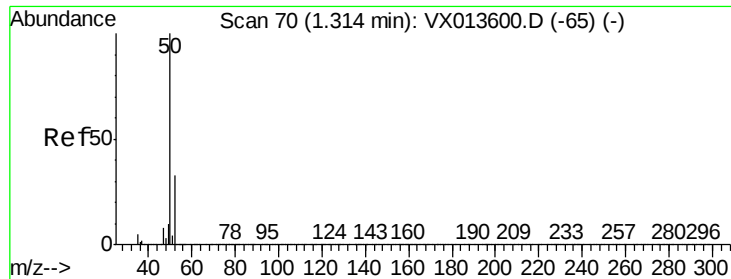
2000

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: VX013857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

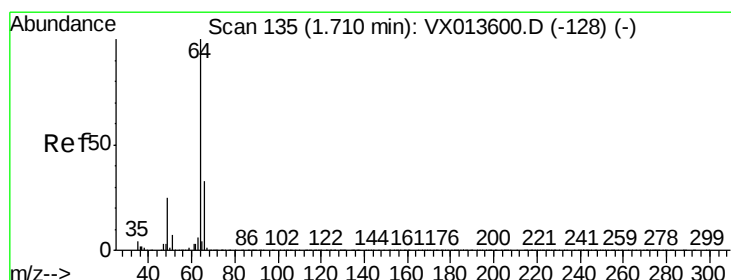
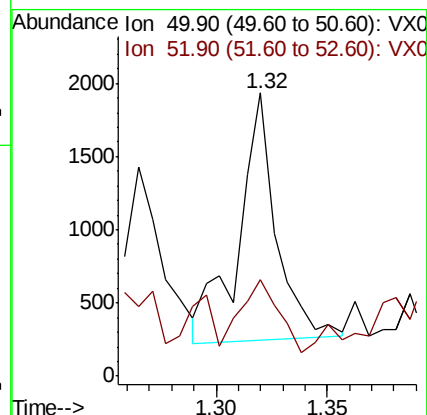
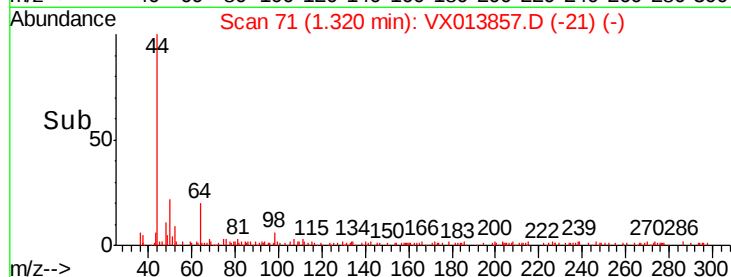
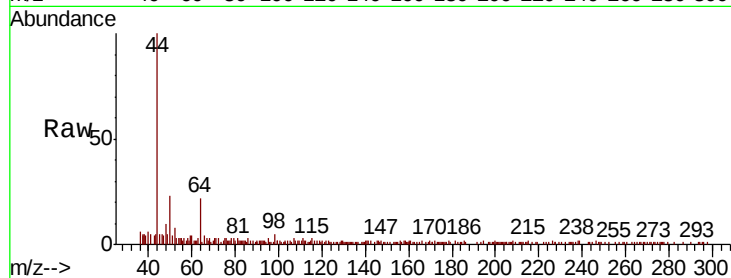
TT101D-20191205RE

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: VX013857.D

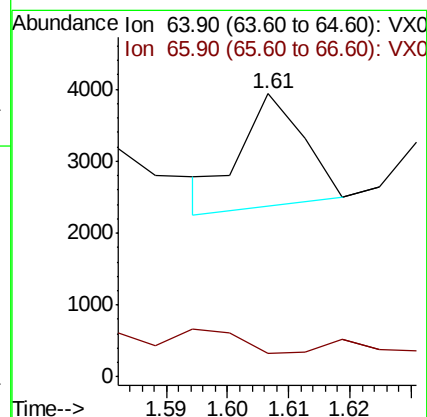
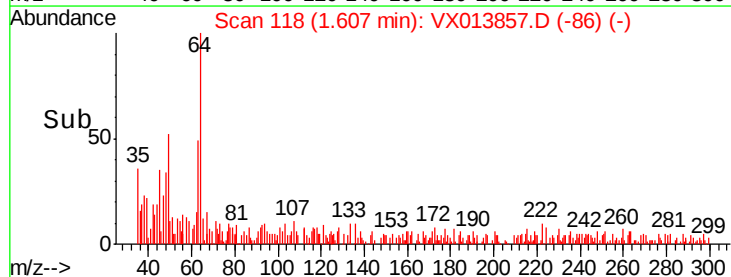
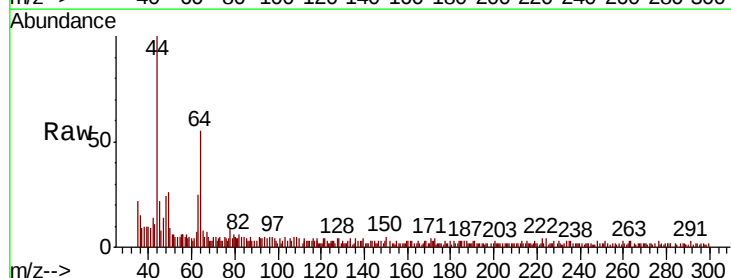
Acq: 09 Dec 2019 17:44

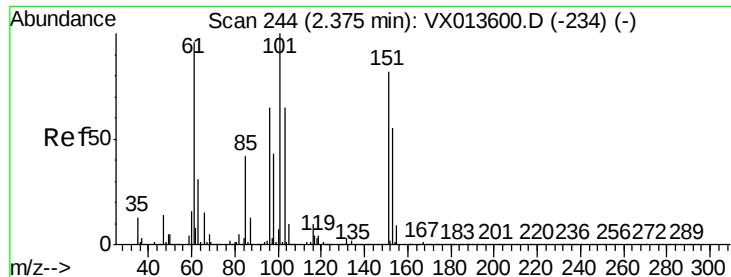
Tgt Ion: 64 Resp: 1118

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: VX013857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20191205RE

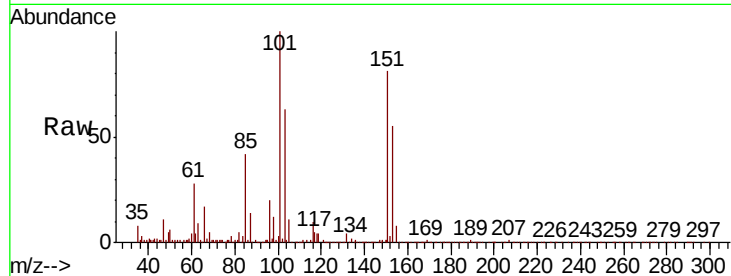
Tot Ion:101 Resp: 80223

Ion Ratio Lower Upper

101 100

85 41.6 33.9 50.9

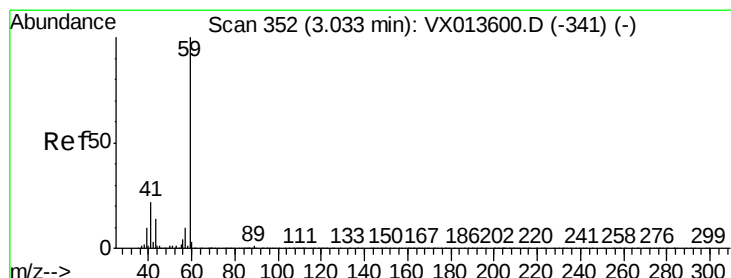
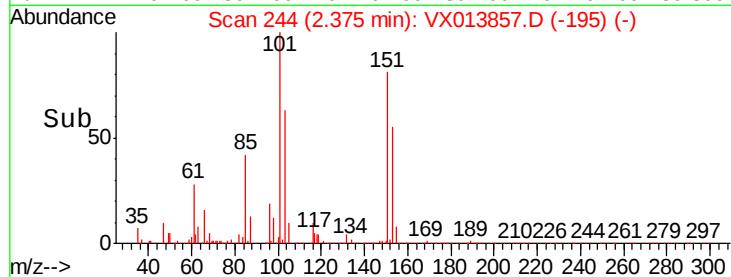
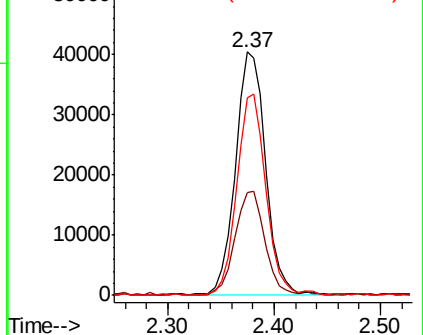
151 80.1 64.2 96.2



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: VX013857.D

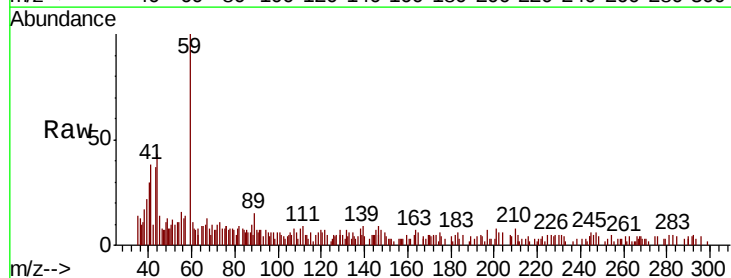
Acq: 09 Dec 2019 17:44

Tgt Ion: 59 Resp: 5243

Ion Ratio Lower Upper

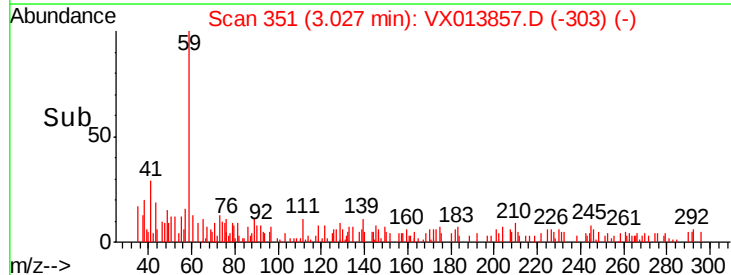
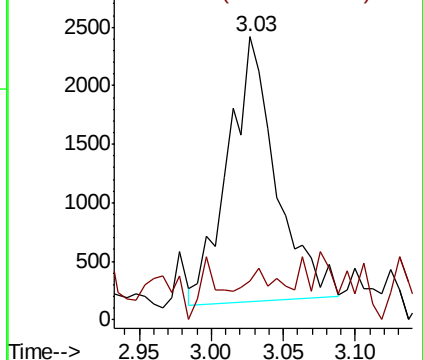
59 100

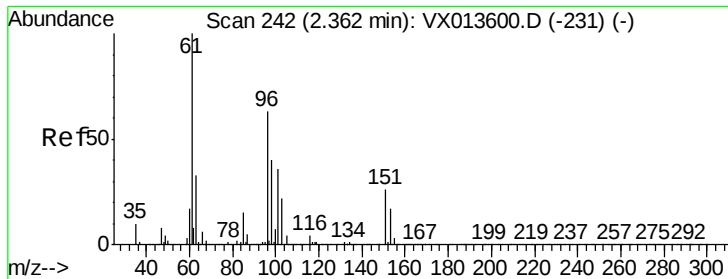
57 5.9 7.8 11.6#



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: VX013857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20191205RE

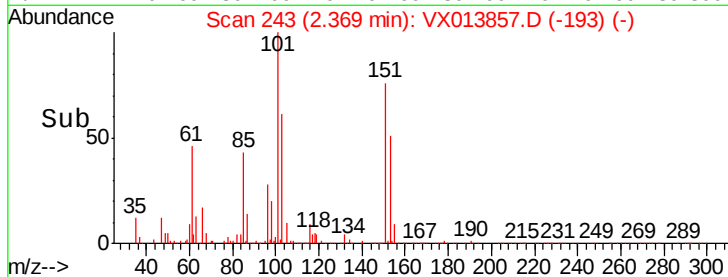
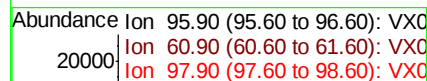
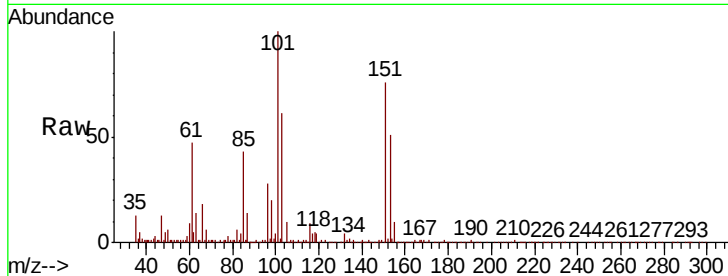
Tot Ion: 96 Resp: 15282

Ion Ratio Lower Upper

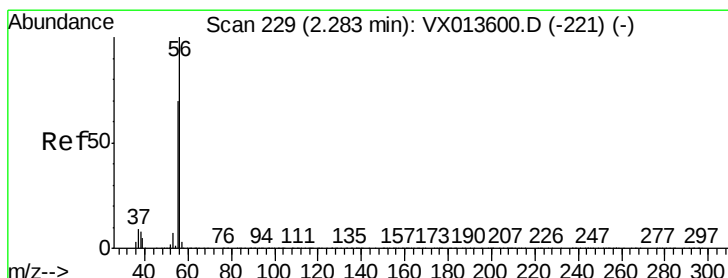
96 100

61 163.2 126.6 190.0

98 71.0 50.6 76.0



Time-->



#13

Acrolein

Concen: 6.148 ug/l

RT: 2.26 min Scan# 226

Delta R.T. -0.02 min

Lab File: VX013857.D

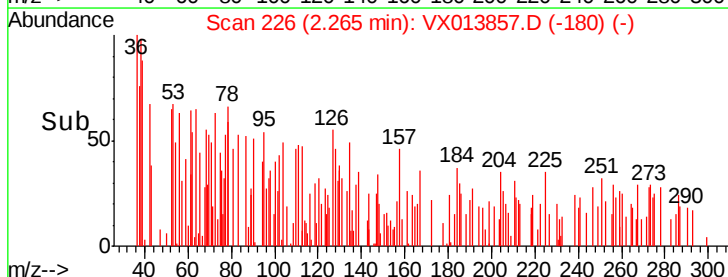
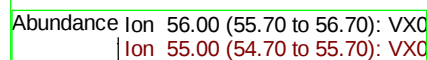
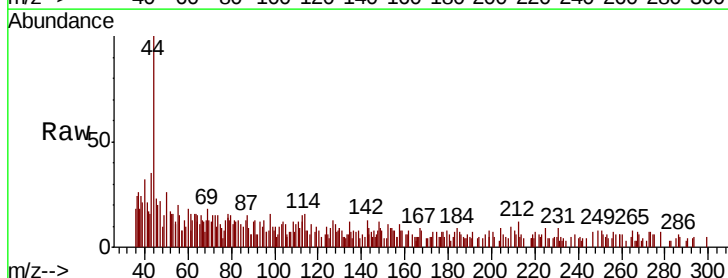
Acq: 09 Dec 2019 17:44

Tgt Ion: 56 Resp: 175

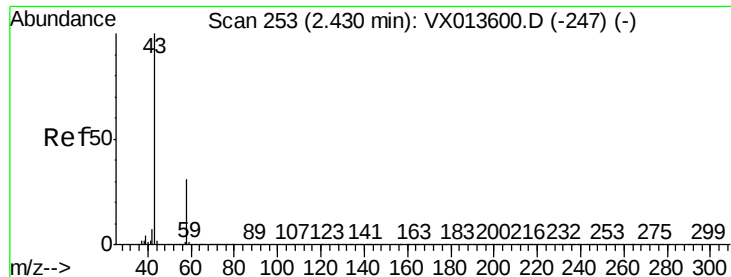
Ion Ratio Lower Upper

56 100

55 184.0 56.2 84.4#



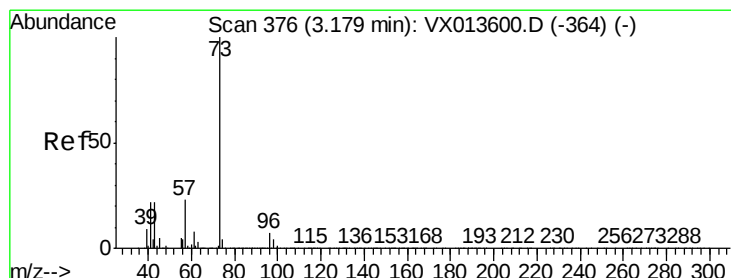
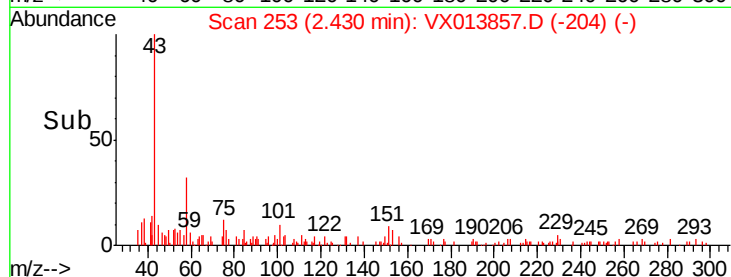
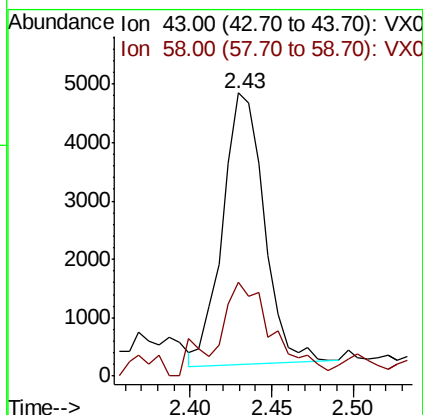
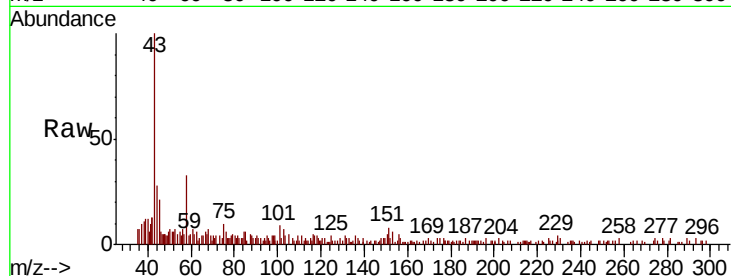
Time-->



#16
Acetone
Concen: 2.320 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013857.D
Acq: 09 Dec 2019 17:44

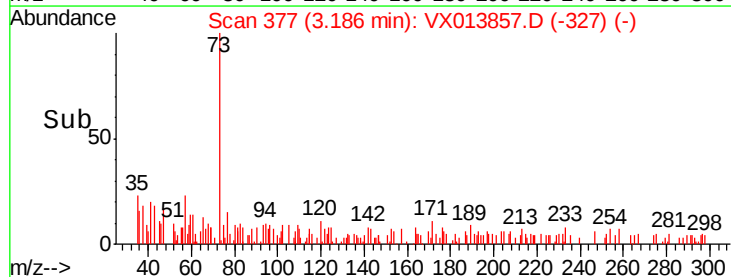
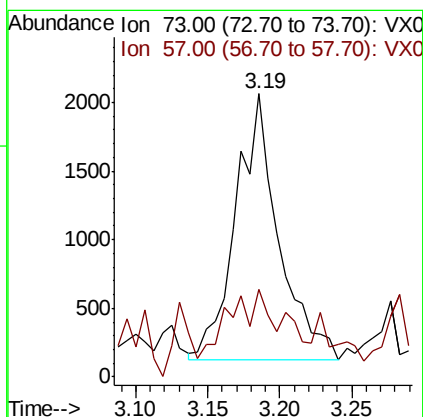
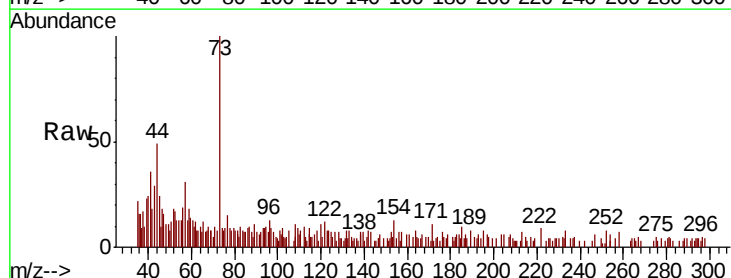
Instrument :
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ClientSampleId :
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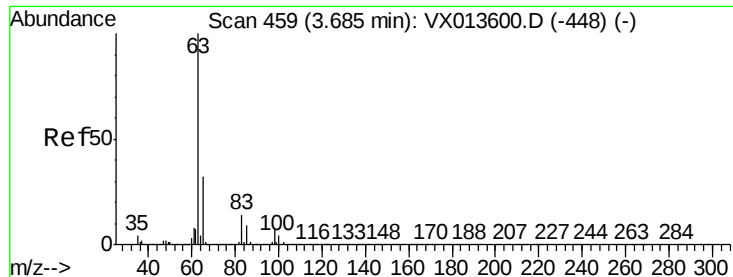
Tot Ion: 43 Resp: 8206
Ion Ratio Lower Upper
43 100
58 30.6 24.6 36.8



#19
Methyl tert-butyl Ether
Concen: 0.207 ug/l
RT: 3.19 min Scan# 377
Delta R.T. 0.01 min
Lab File: VX013857.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: VX013857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20191205RE

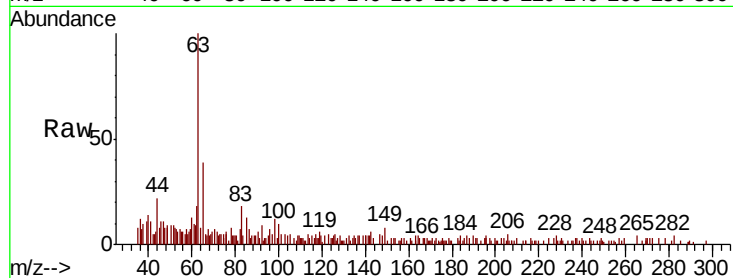
Tot Ion: 63 Resp: 9098

Ion Ratio Lower Upper

63 100

98 12.8 3.5 10.4#

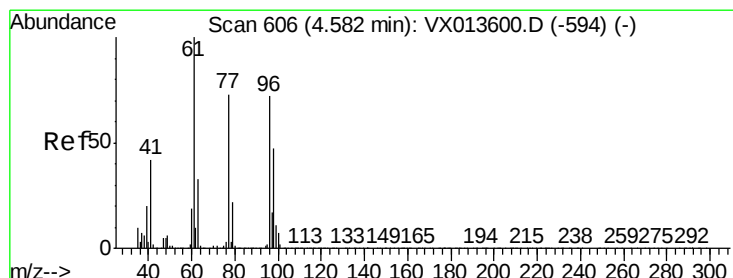
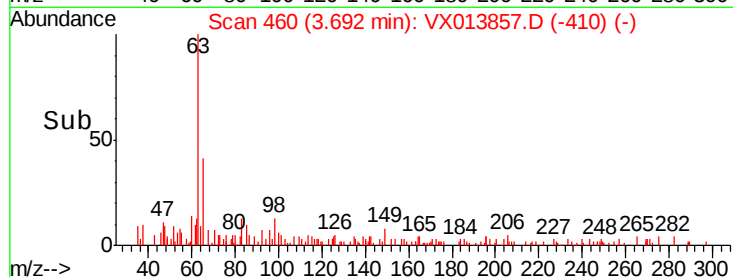
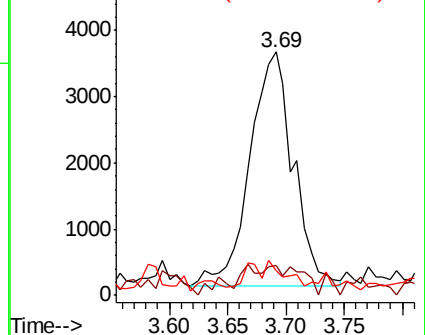
100 8.5 2.1 6.3#



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: VX013857.D

Acq: 09 Dec 2019 17:44

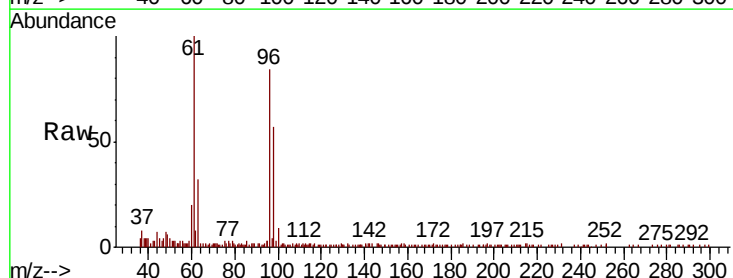
Tgt Ion: 96 Resp: 24564

Ion Ratio Lower Upper

96 100

61 119.2 0.0 286.4

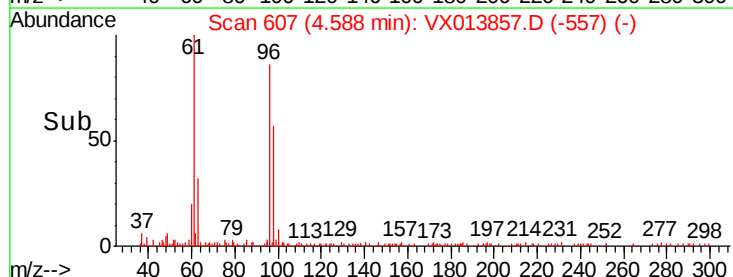
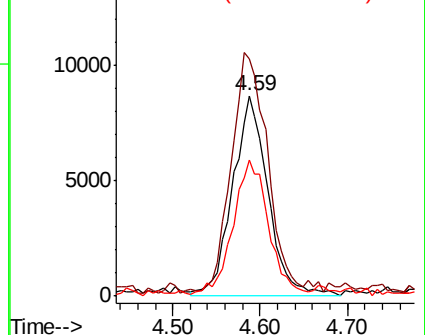
98 65.9 0.0 127.4

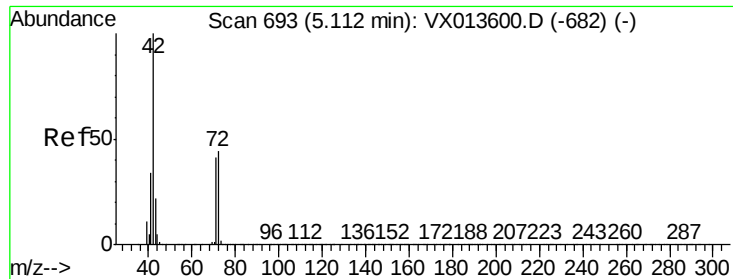


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

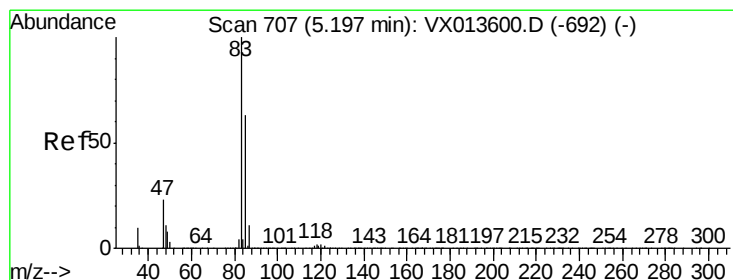
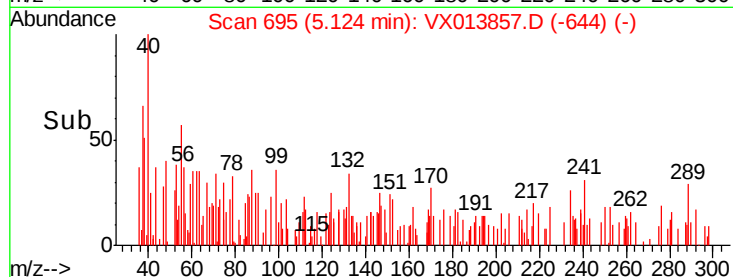
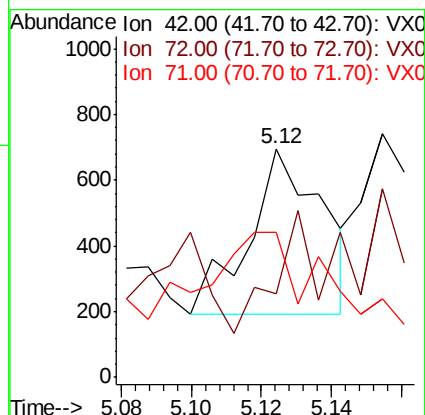
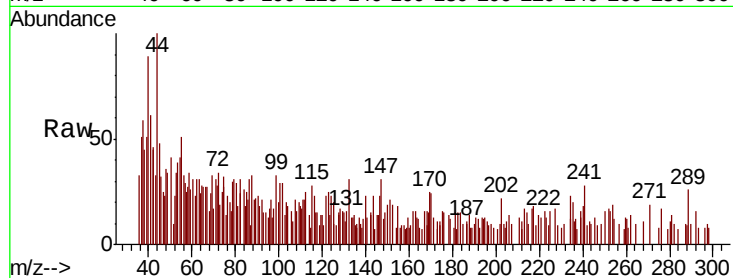




#29
Tetrahydrofuran
Concen: 0.227 ug/l
RT: 5.12 min Scan# 695
Delta R.T. 0.01 min
Lab File: VX013857.D
Acq: 09 Dec 2019 17:44

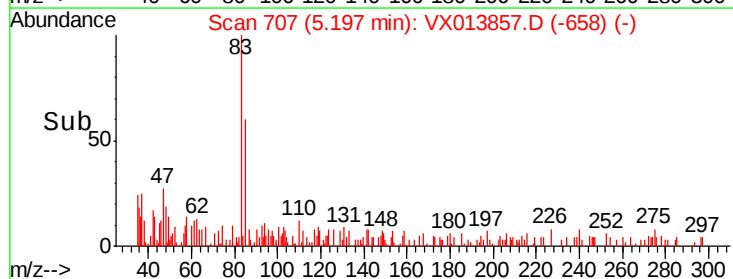
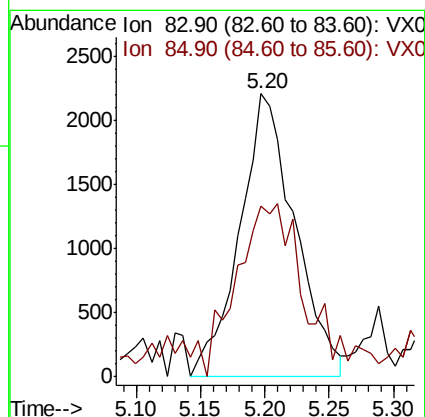
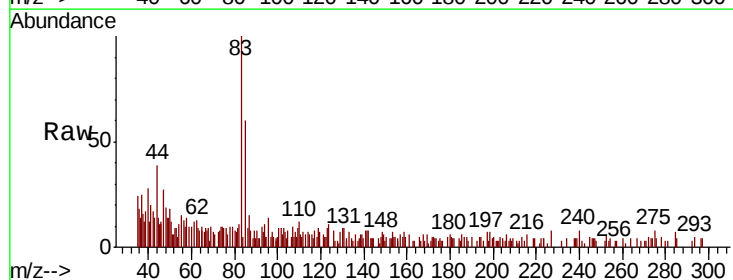
Instrument :
MSVOA_X
ClientSampleId :
TT101D-20191205RE

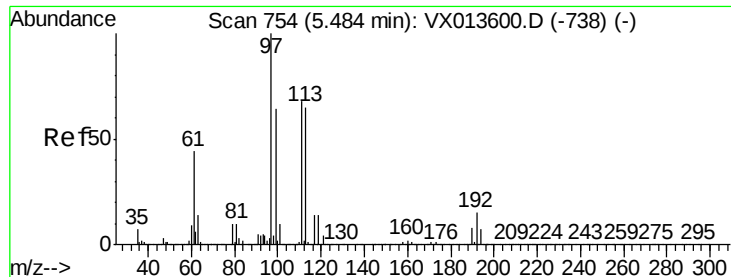
Tot Ion: 42 Resp: 737
Ion Ratio Lower Upper
42 100
72 36.9 36.3 54.5
71 120.1 33.2 49.8#



#30
Chloroform
Concen: 0.577 ug/l
RT: 5.20 min Scan# 707
Delta R.T. 0.00 min
Lab File: VX013857.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: VX013857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20191205RE

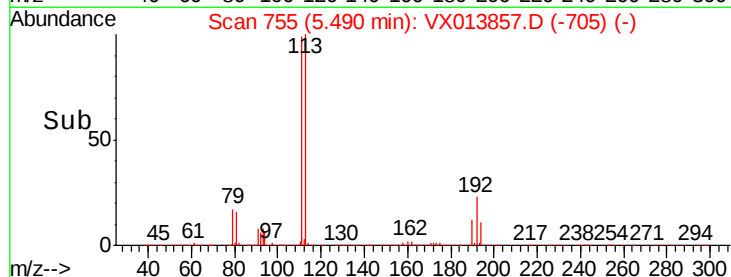
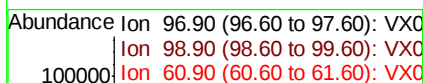
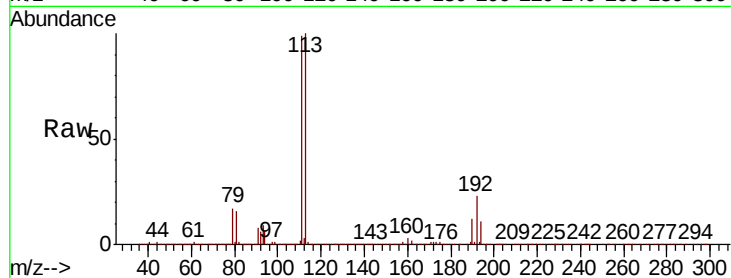
Tot Ion: 97 Resp: 3515

Ion Ratio Lower Upper

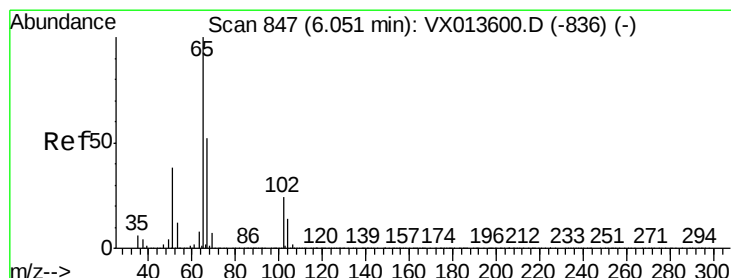
97 100

99 0.0 51.6 77.4#

61 17.8 36.1 54.1#



Time-->



#33

1,2-Dichloroethane-d4

Concen: 47.666 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013857.D

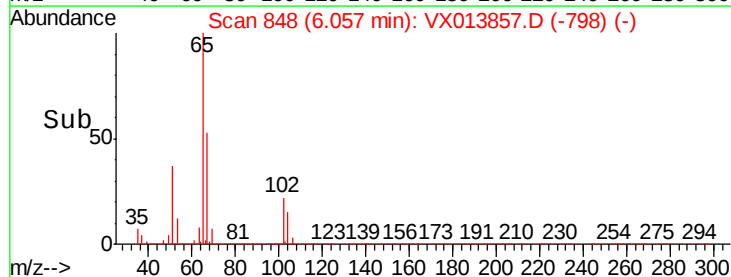
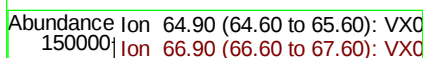
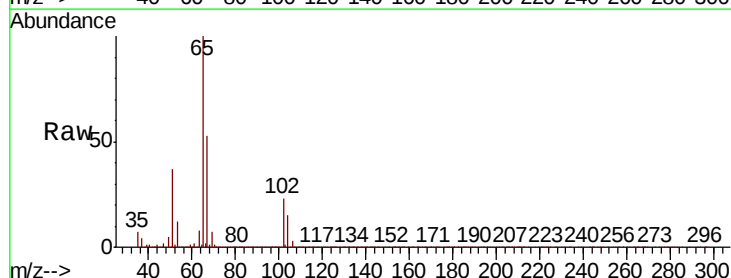
Acq: 09 Dec 2019 17:44

Tgt Ion: 65 Resp: 341498

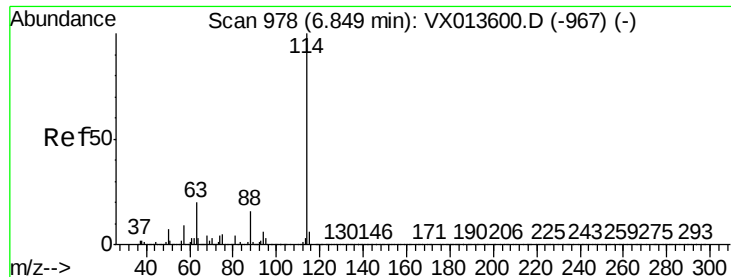
Ion Ratio Lower Upper

65 100

67 52.7 0.0 104.4



Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20191205RE

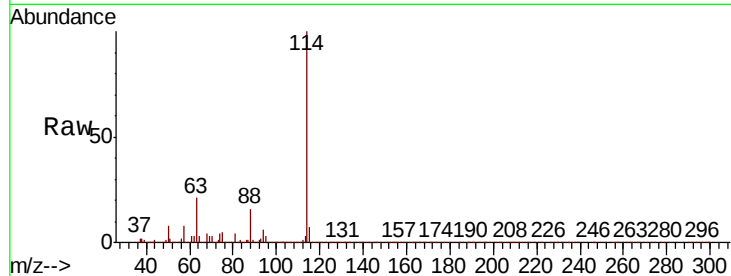
Tot Ion:114 Resp: 944438

Ion Ratio Lower Upper

114 100

63 21.1 0.0 39.6

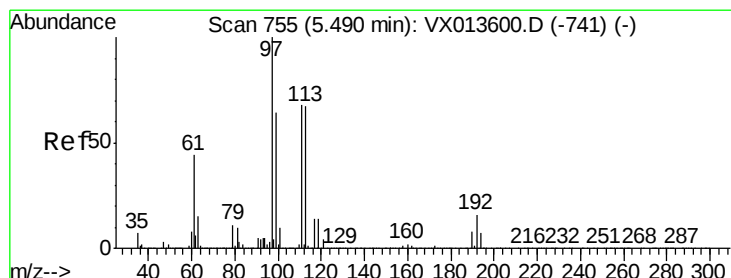
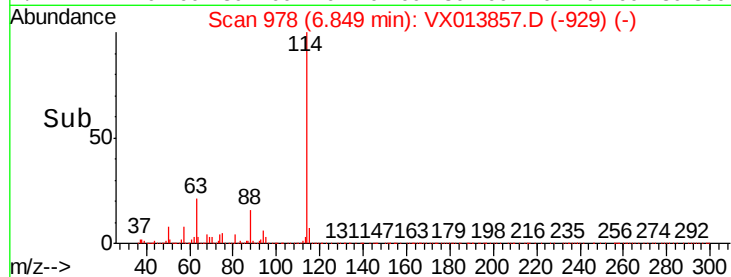
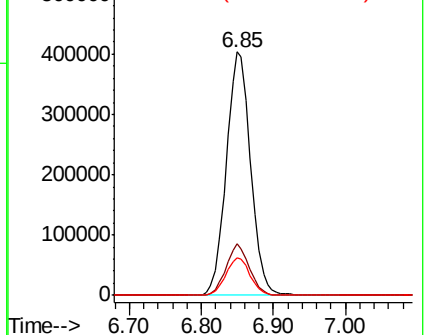
88 15.5 0.0 31.4



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: VX013857.D

Acq: 09 Dec 2019 17:44

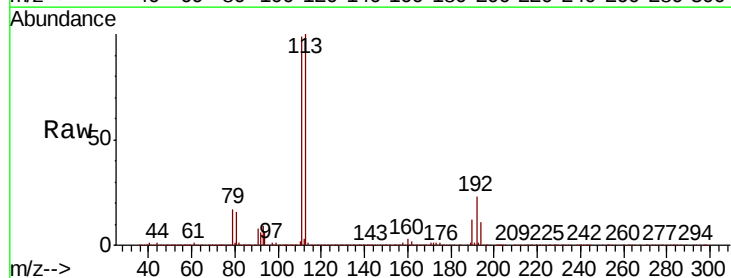
Tgt Ion:113 Resp: 285004

Ion Ratio Lower Upper

113 100

111 101.2 83.6 125.4

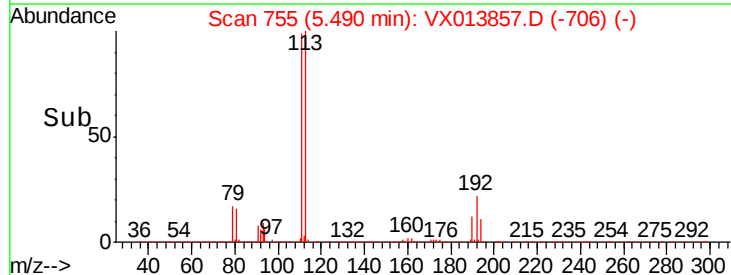
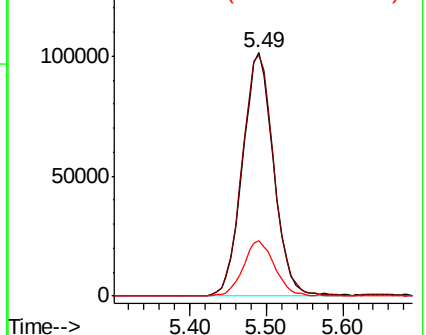
192 23.1 19.2 28.8

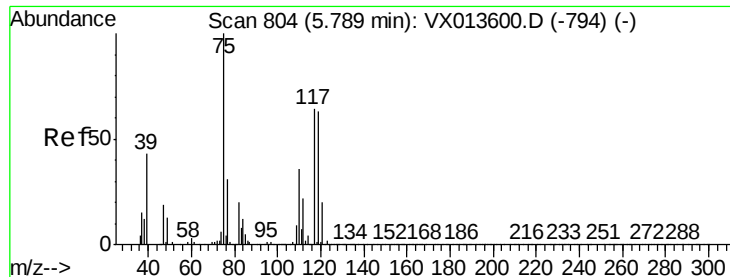


Abundance Ion 112.80 (112.50 to 113.50): V

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: VX013857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20191205RE

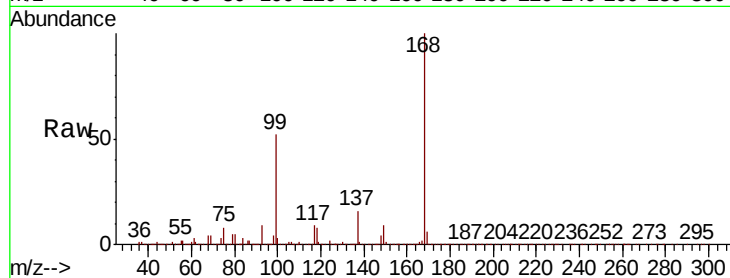
Tot Ion: 75 Resp: 41815

Ion Ratio Lower Upper

75 100

110 12.0 18.1 54.1#

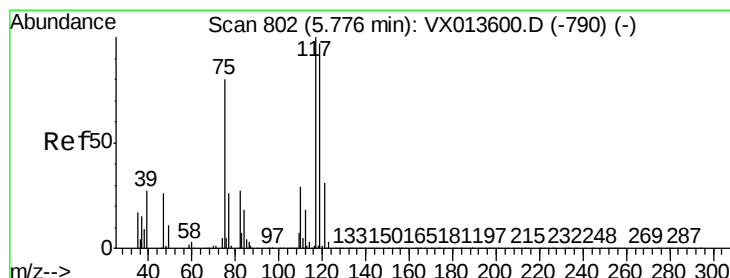
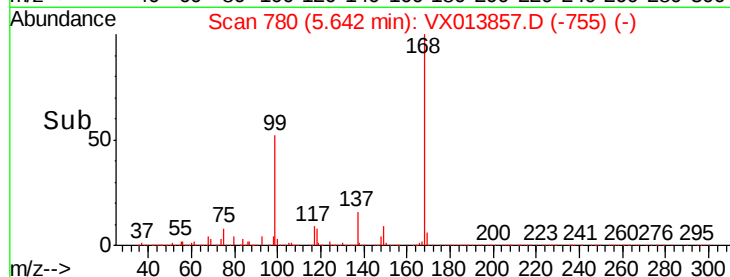
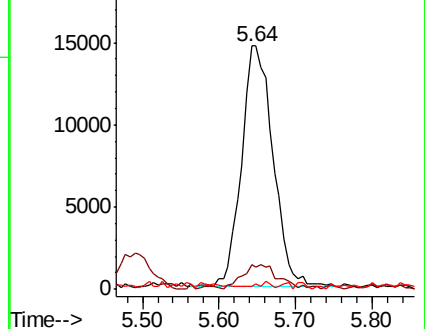
77 0.8 24.5 36.7#



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: 6.553 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013857.D

Acq: 09 Dec 2019 17:44

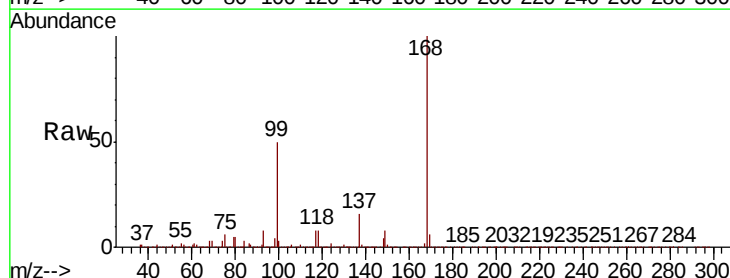
Tgt Ion: 117 Resp: 51806

Ion Ratio Lower Upper

117 100

119 8.6 77.5 116.3#

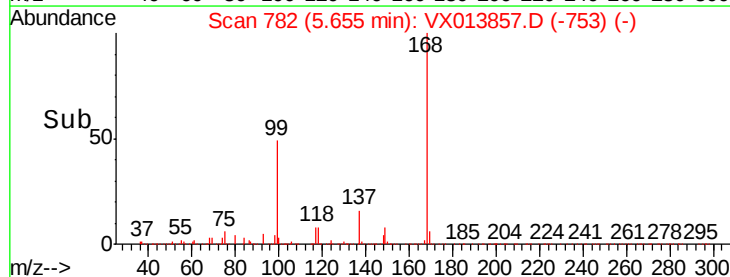
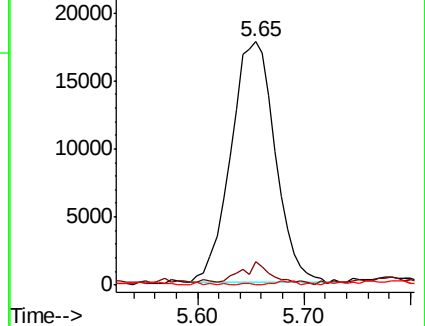
121 0.1 25.0 37.6#

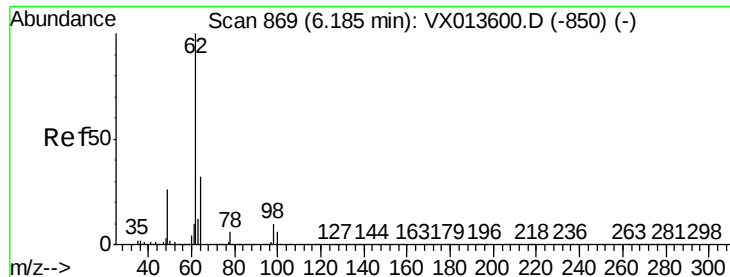


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#42

1,2-Dichloroethane

Concen: 0.490 ug/l

RT: 6.18 min Scan# 869

Delta R.T. 0.00 min

Lab File: VX013857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

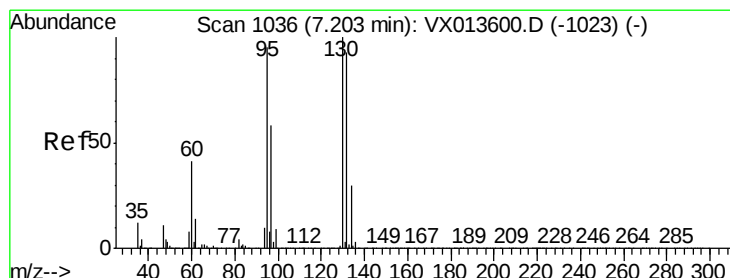
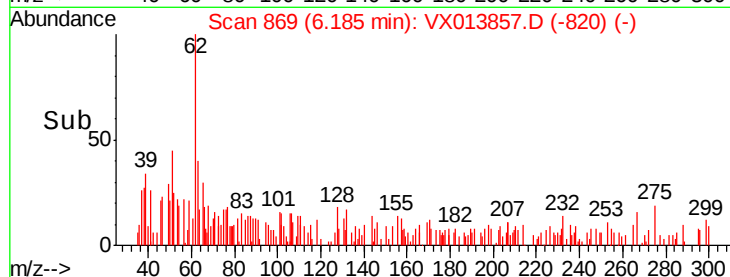
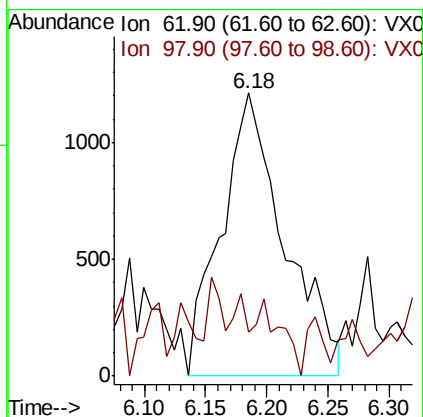
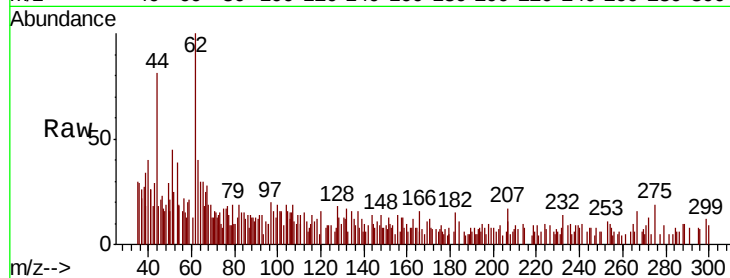
TT101D-20191205RE

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: VX013857.D

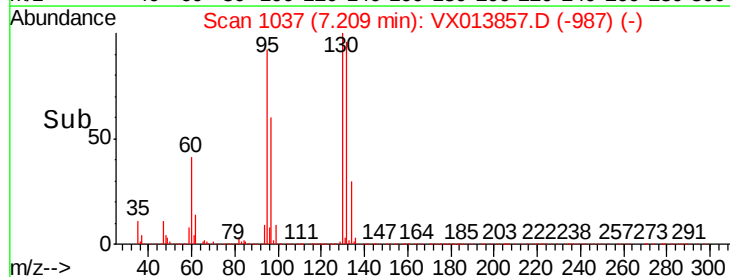
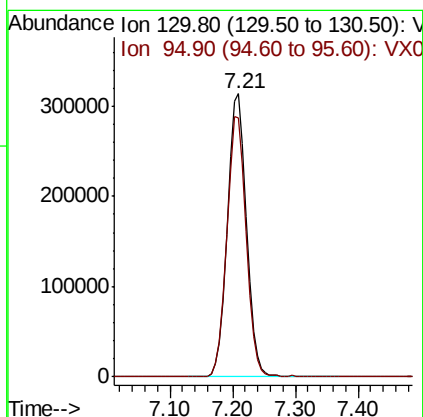
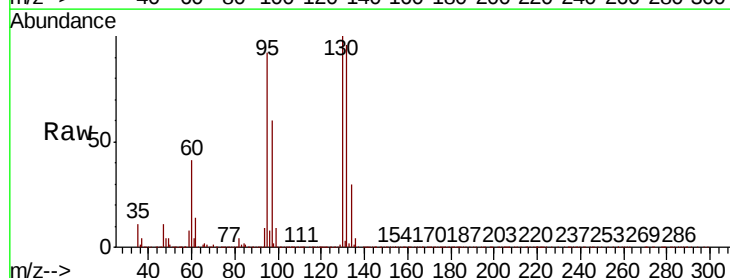
Acq: 09 Dec 2019 17:44

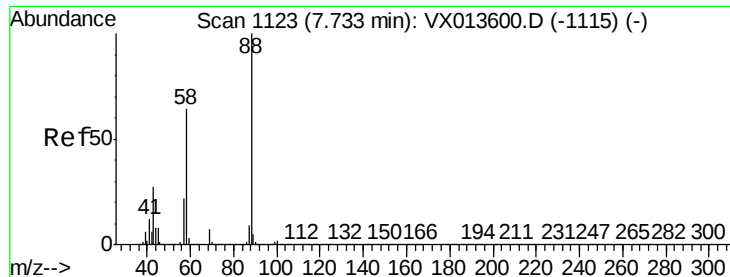
Tgt Ion:130 Resp: 659847

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: VX013857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20191205RE

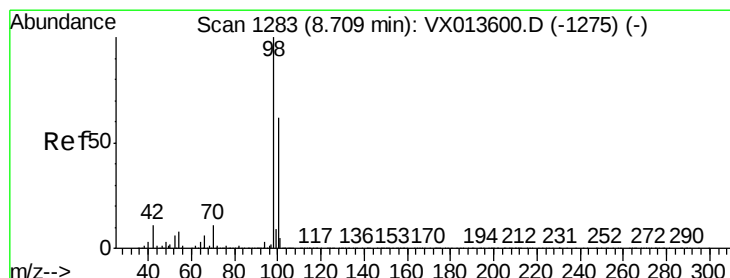
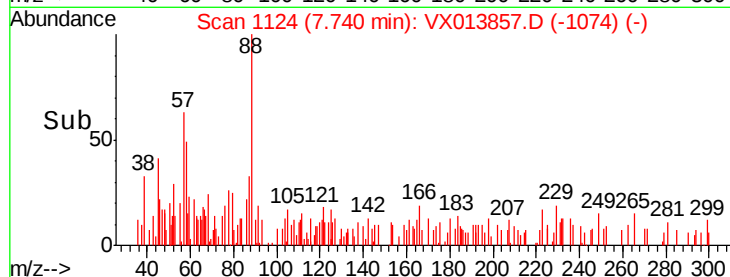
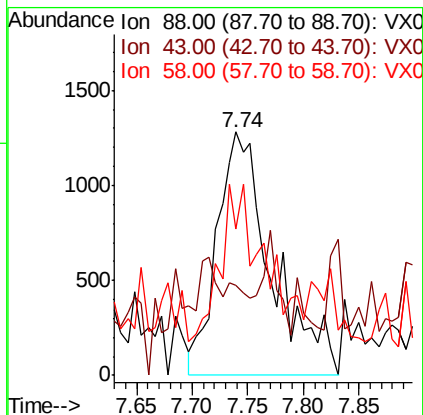
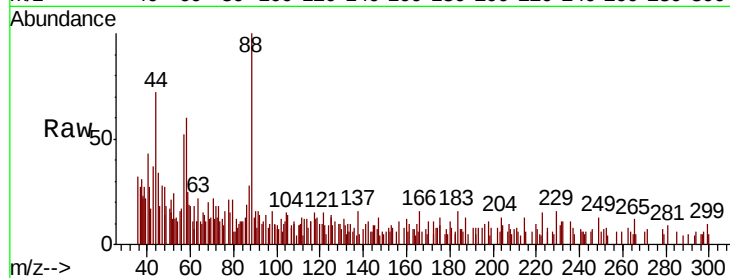
Tot Ion: 88 Resp: 4350

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: VX013857.D

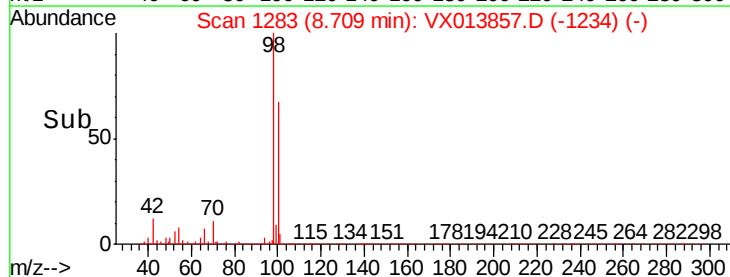
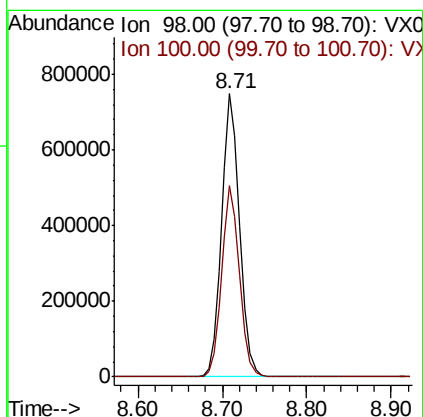
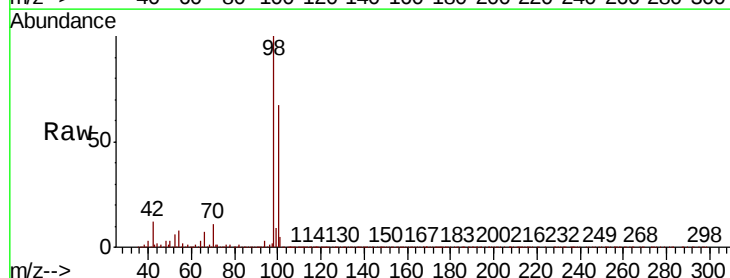
Acq: 09 Dec 2019 17:44

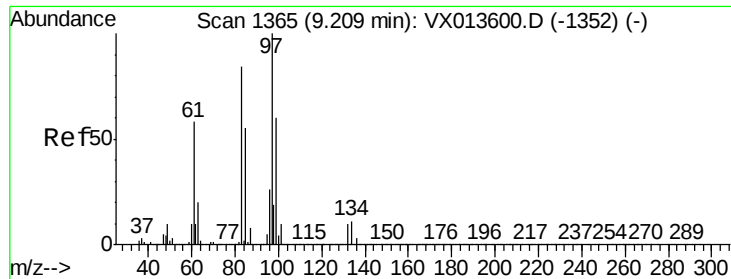
Tgt Ion: 98 Resp: 1105028

Ion Ratio Lower Upper

98 100

100 66.5 53.1 79.7

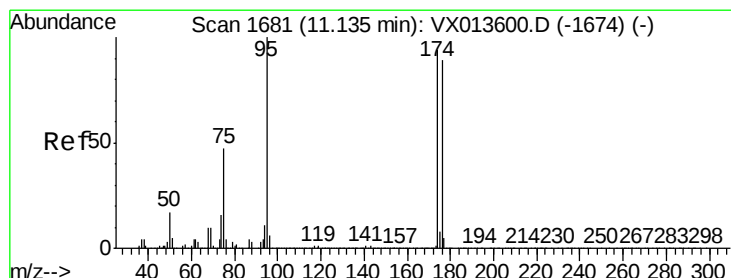
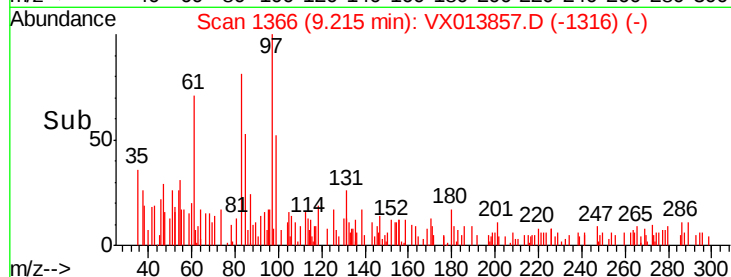
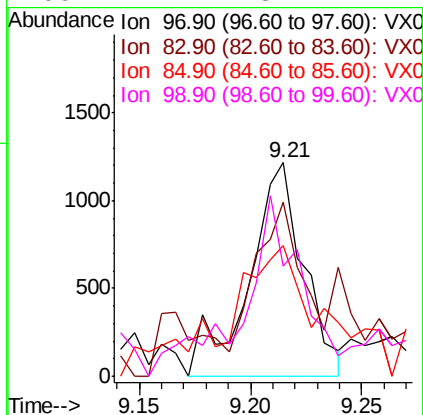
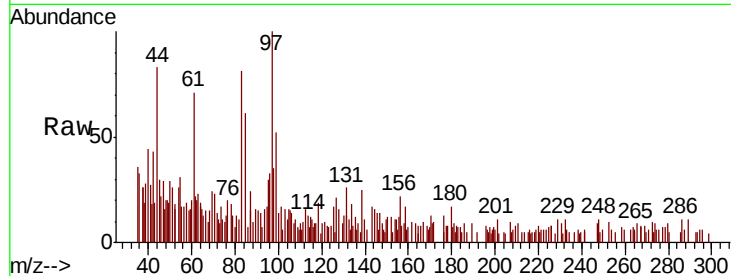




#55
 1,1,2-Trichloroethane
 Concen: 0.319 ug/l
 RT: 9.21 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VX013857.D
 Acq: 09 Dec 2019 17:44

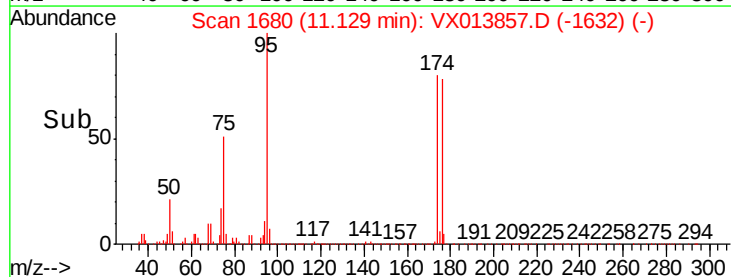
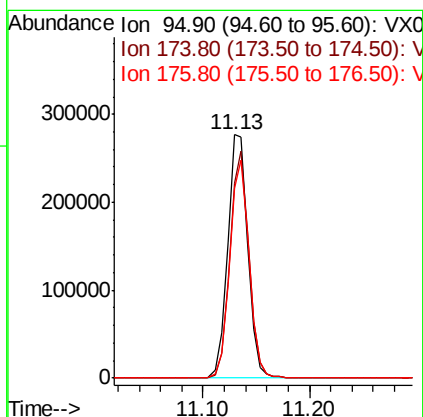
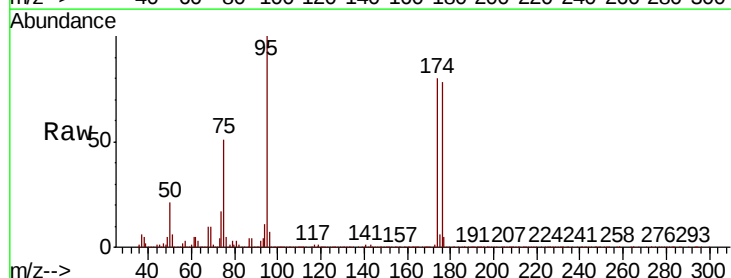
Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D-20191205RE

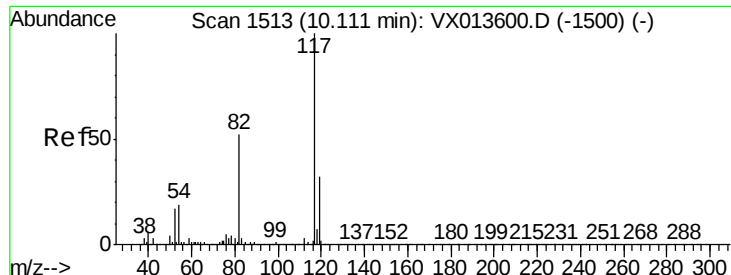
Tot Ion: 97 Resp: 2083
 Ion Ratio Lower Upper
 97 100
 83 64.8 67.3 100.9#
 85 50.1 43.6 65.4
 99 42.2 48.2 72.4#



#62
 4-Bromofluorobenzene
 Concen: 44.579 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.01 min
 Lab File: VX013857.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

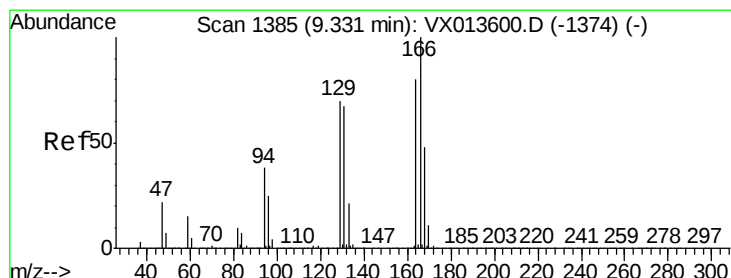
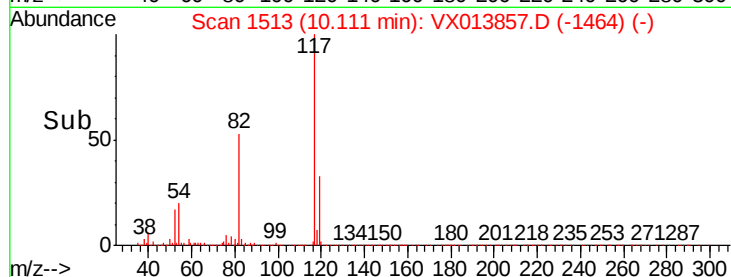
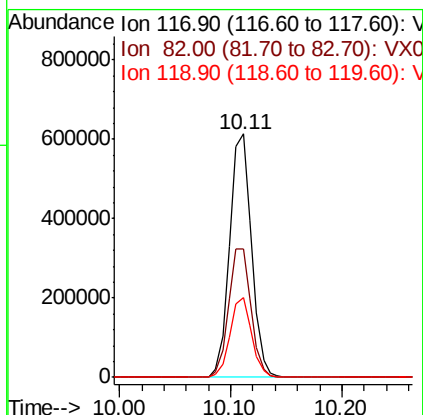
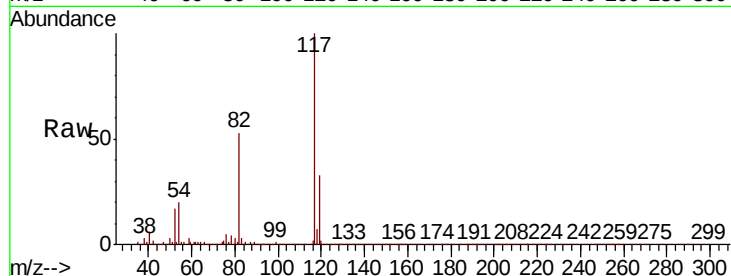




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013857.D
Acq: 09 Dec 2019 17:44

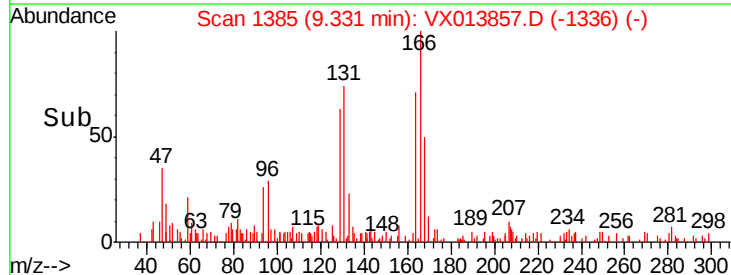
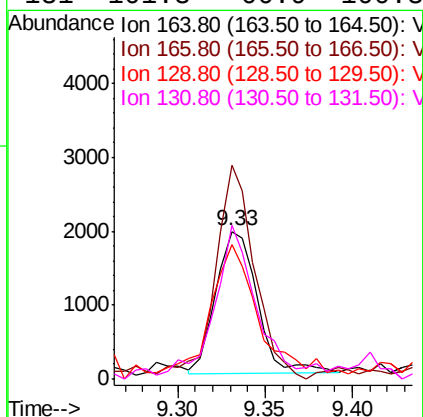
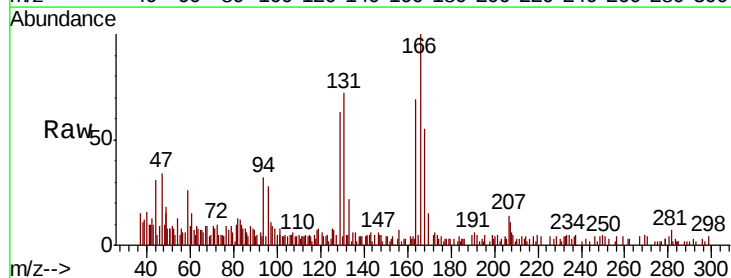
Instrument :
MSVOA_X
ClientSampleId :
TT101D-20191205RE

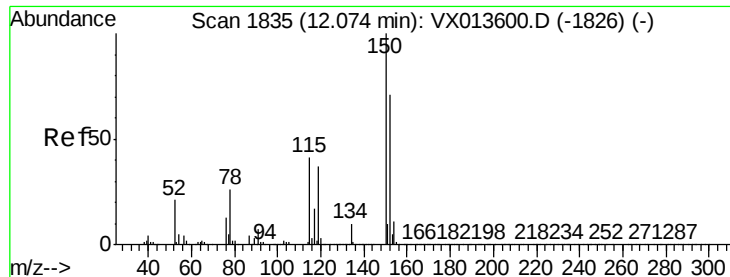
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	41.8	62.8
119	32.9	25.8	38.8



#64
Tetrachloroethene
Concen: 0.508 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013857.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: VX013857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20191205RE

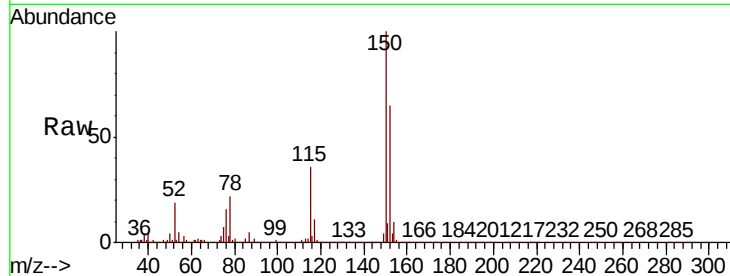
Tot Ion:152 Resp: 359532

Ion Ratio Lower Upper

152 100

115 55.5 38.4 115.1

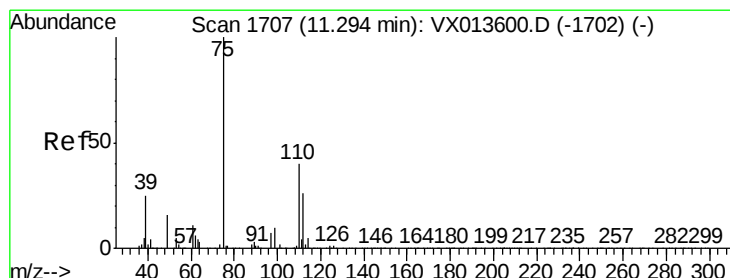
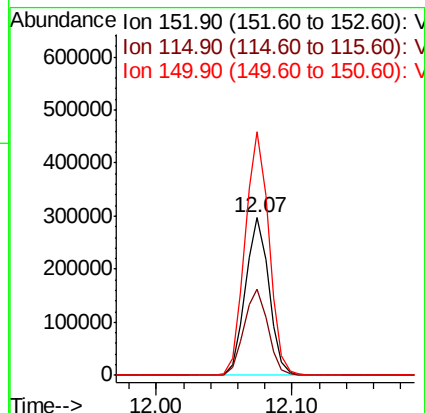
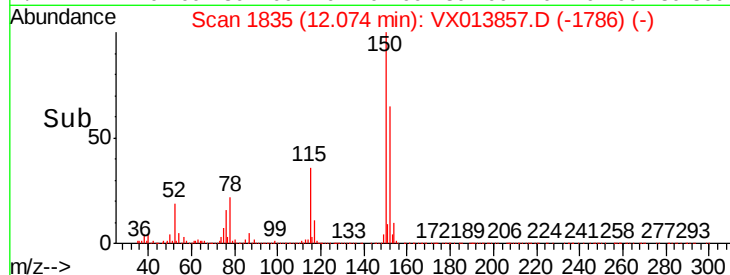
150 156.6 0.0 346.8



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: 22.497 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013857.D

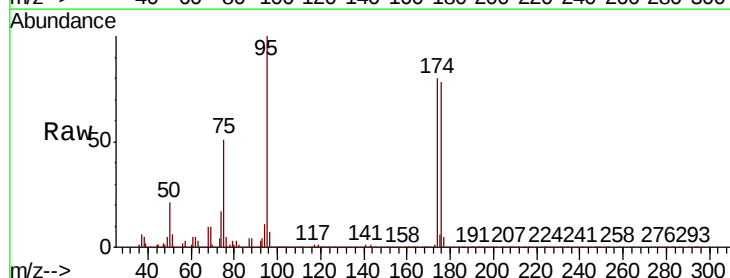
Acq: 09 Dec 2019 17:44

Tgt Ion: 75 Resp: 181919

Ion Ratio Lower Upper

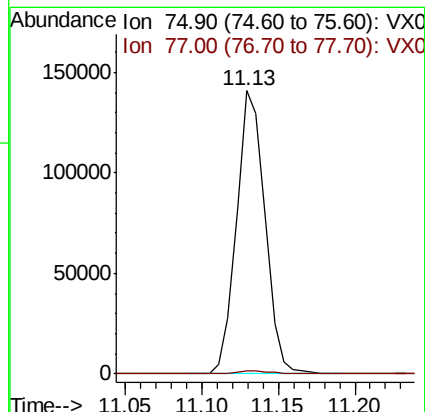
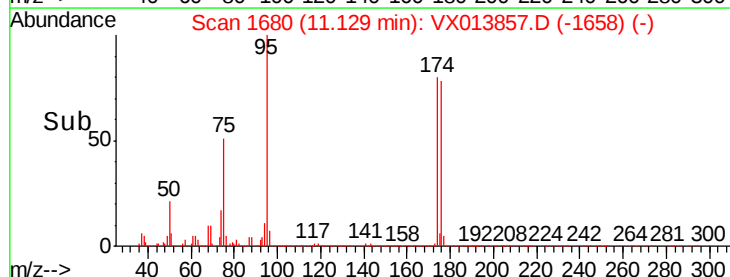
75 100

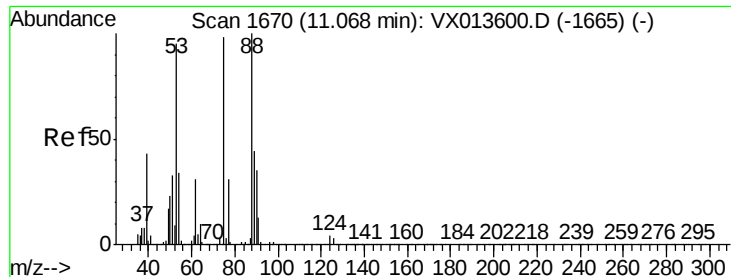
77 1.4 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 61.547 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013857.D

Acq: 09 Dec 2019 17:44

Instrument :

MSVOA_X

ClientSampleId :

TT101D-20191205RE

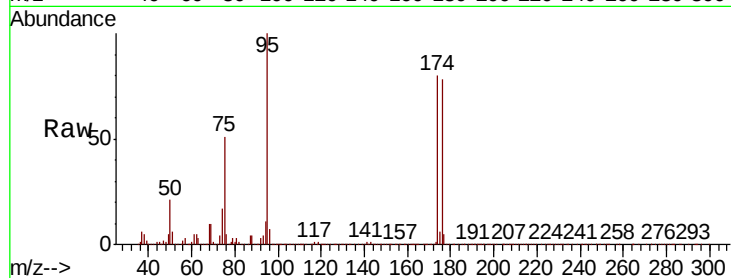
Tot Ion: 75 Resp: 181919

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

