

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX112119\
 Data File : VX013514.D
 Acq On : 21 Nov 2019 19:30
 Operator : JC/SP
 Sample : K5962-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 45BR-20191120

Quant Time: Nov 22 01:12:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	681224	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1108103	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	987448	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	442989	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	408585	50.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.26%	
35) Dibromofluoromethane	5.49	113	337101	48.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.00%	
50) Toluene-d8	8.71	98	1323881	50.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.06%	
62) 4-Bromofluorobenzene	11.14	95	438340	46.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.70%	

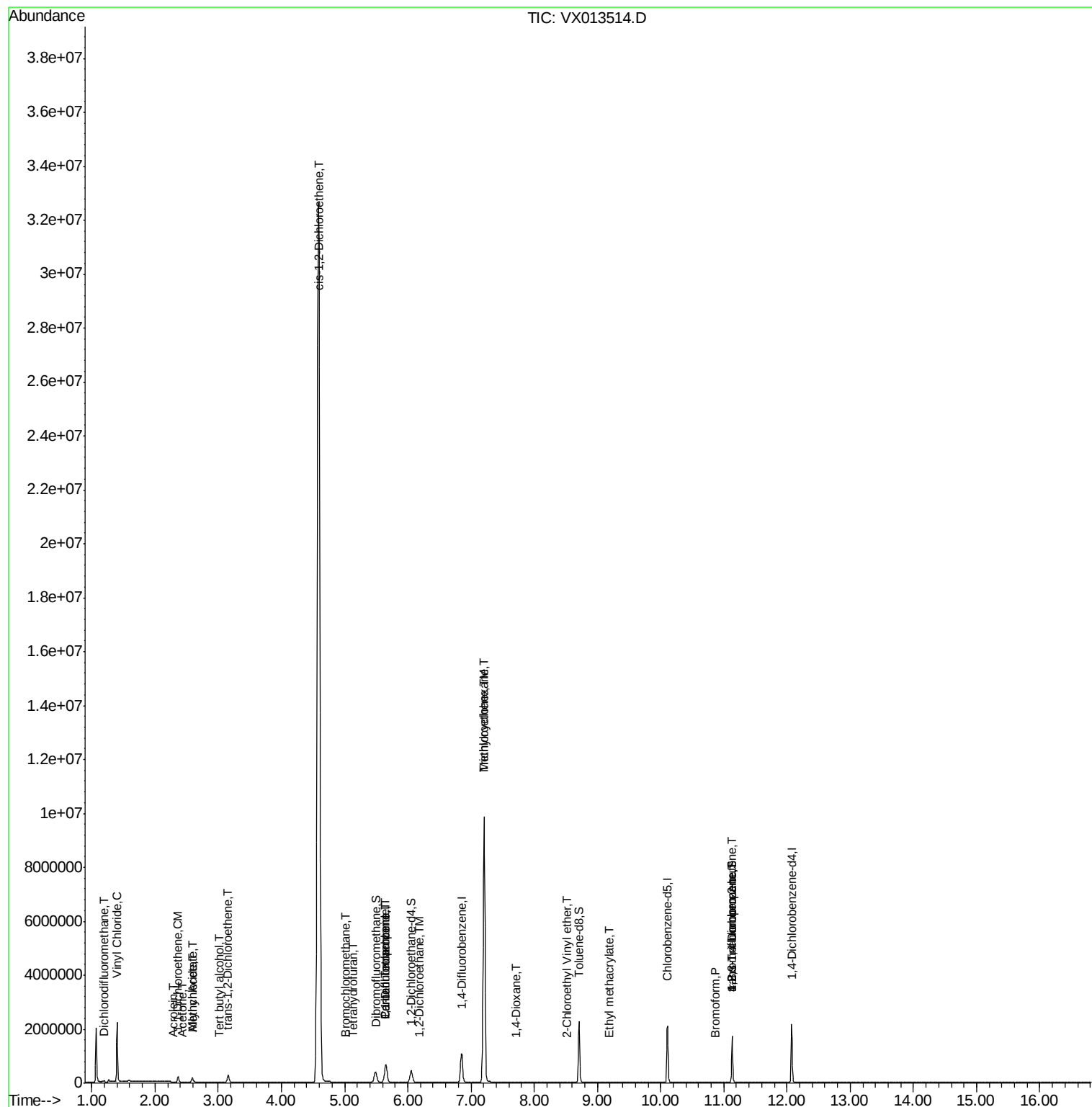
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	26424	3.367	ug/l	94
4) Vinyl Chloride	1.40	62	1326079	136.845	ug/l	99
11) Tert butyl alcohol	3.01	59	1770	0.832	ug/l	99
12) 1,1-Dichloroethene	2.36	96	69314	11.092	ug/l	95
13) Acrolein	2.30	56	295	0.256	ug/l	89
14) Allyl chloride	2.59	41	18820	1.658	ug/l #	74
16) Acetone	2.43	43	5894	1.464	ug/l #	84
18) Methyl Acetate	2.59	43	45203	4.067	ug/l #	53
21) trans-1,2-Dichloroethene	3.15	96	121083	17.797	ug/l	97
27) cis-1,2-Dichloroethene	4.59	96	21515007	2822.893	ug/l	85
28) Bromochloromethane	5.01	49	759	0.218	ug/l #	50
29) Tetrahydrofuran	5.13	42	9694	2.664	ug/l	94
36) 1,1-Dichloropropene	5.65	75	43602	4.587	ug/l #	52
38) Carbon Tetrachloride	5.65	117	59771	6.430	ug/l #	16
39) Methylcyclohexane	7.21	83	40936	3.456	ug/l #	1
42) 1,2-Dichloroethane	6.18	62	2170	0.203	ug/l #	51
44) Trichloroethene	7.21	130	3876843	475.629	ug/l	100
49) 1,4-Dioxane	7.72	88	128	0.612	ug/l #	1
56) Ethyl methacrylate	9.19	69	232	1.580	ug/l #	9
58) 2-Chloroethyl Vinyl ether	8.51	63	1149	0.221	ug/l	95
71) Bromoform	10.86	173	166	3.225	ug/l #	27
76) 1,2,3-Trichloropropane	11.14	75	214140	23.799	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.14	75	214140	61.259	ug/l #	9

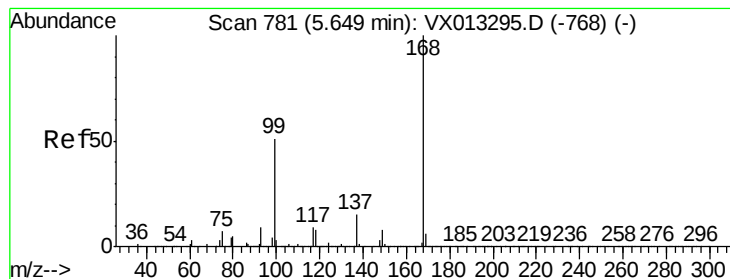
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 02 07:06:38 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: VX013514.D

Acq: 21 Nov 2019 19:30

Instrument :

MSVOA_X

ClientSampleId :

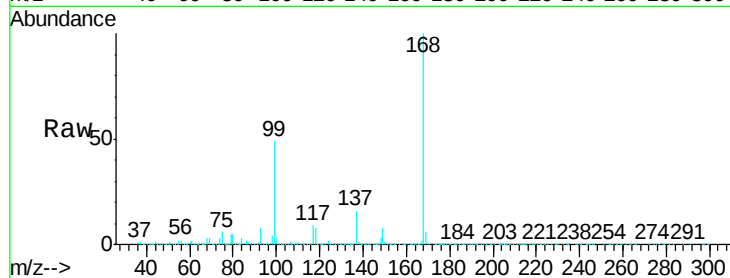
45BR-20191120

Tgt Ion:168 Resp: 681224

Ion Ratio Lower Upper

168 100

99 48.6 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

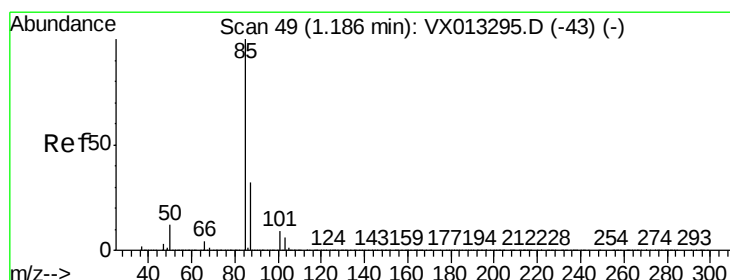
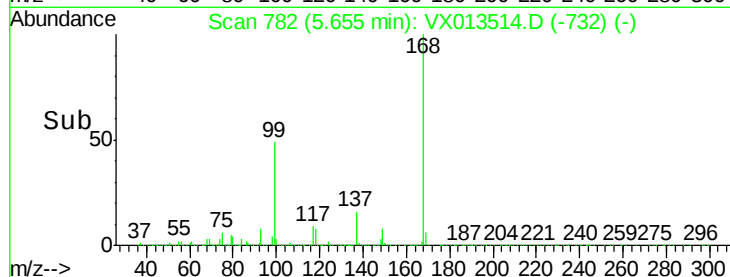
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 3.367 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013514.D

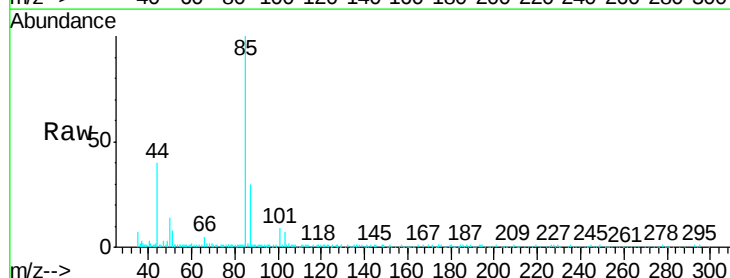
Acq: 21 Nov 2019 19:30

Tgt Ion: 85 Resp: 26424

Ion Ratio Lower Upper

85 100

87 28.3 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

25000

20000

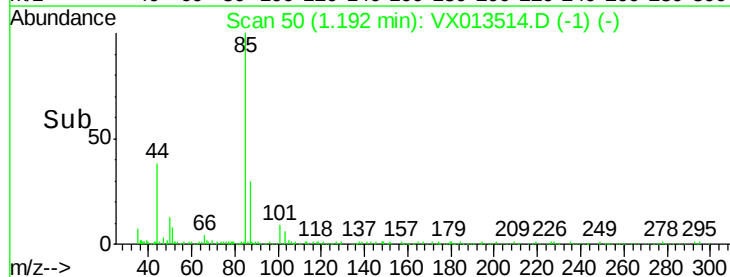
15000

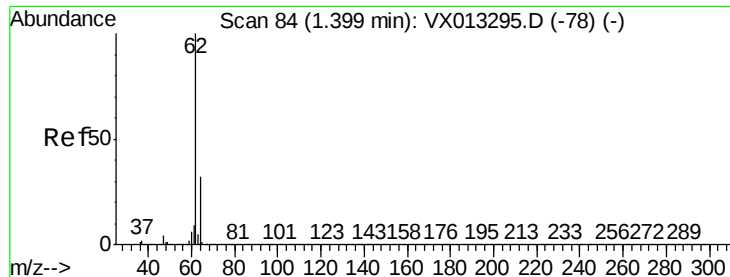
10000

5000

0

Time--> 1.10 1.15 1.20 1.25





#4

Vinyl Chloride

Concen: 136.845 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013514.D

Acq: 21 Nov 2019 19:30

Instrument :

MSVOA_X

ClientSampled :

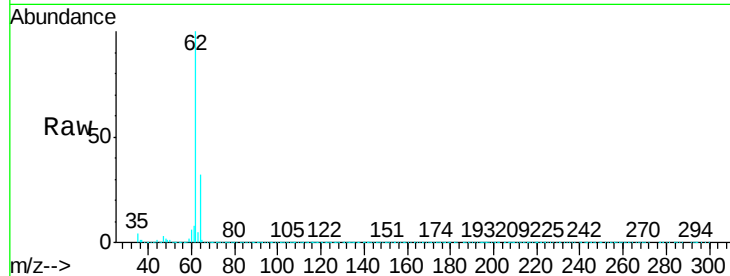
45BR-20191120

Tgt Ion: 62 Resp: 1326079

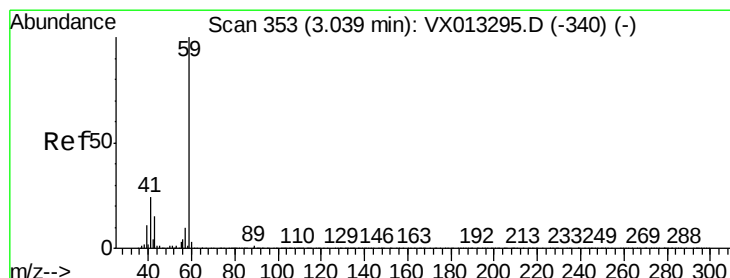
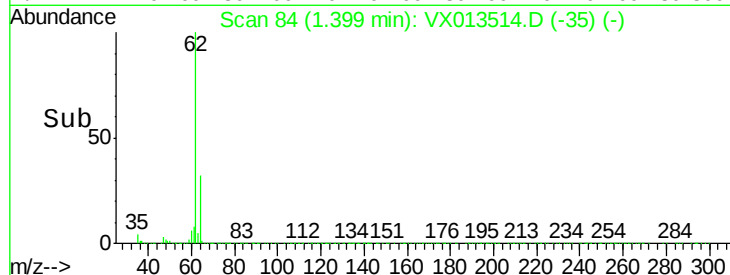
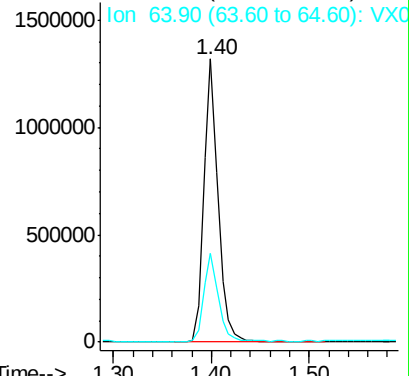
Ion Ratio Lower Upper

62 100

64 31.3 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VX0



#11

Tert butyl alcohol

Concen: 0.832 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.03 min

Lab File: VX013514.D

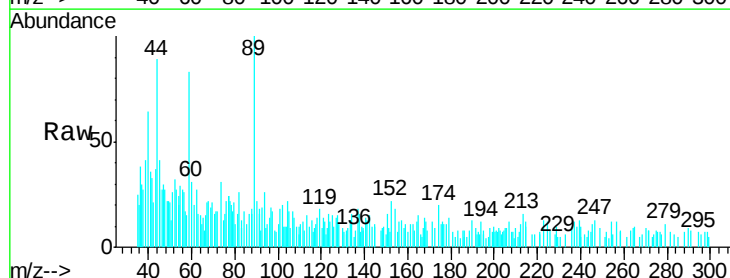
Acq: 21 Nov 2019 19:30

Tgt Ion: 59 Resp: 1770

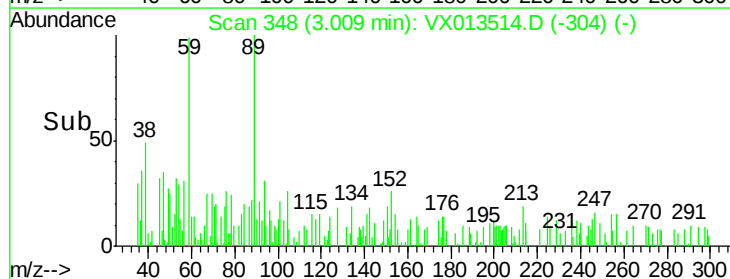
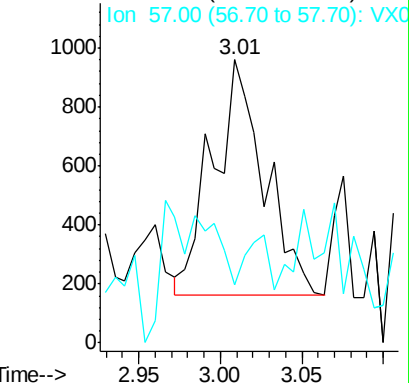
Ion Ratio Lower Upper

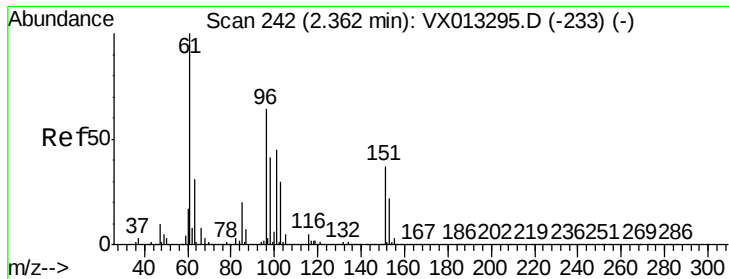
59 100

57 9.5 8.0 12.0



Abundance Ion 59.00 (58.70 to 59.70): VX0





#12

1,1-Dichloroethene

Concen: 11.092 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.00 min

Lab File: VX013514.D

Acq: 21 Nov 2019 19:30

Instrument :

MSVOA_X

ClientSampleId :

45BR-20191120

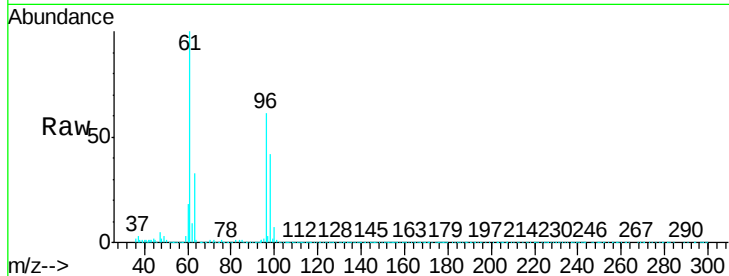
Tgt Ion: 96 Resp: 69314

Ion Ratio Lower Upper

96 100

61 162.6 125.0 187.6

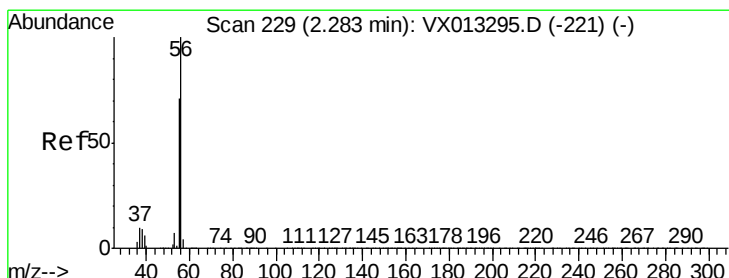
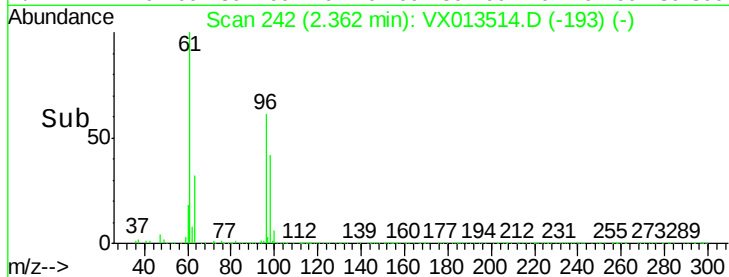
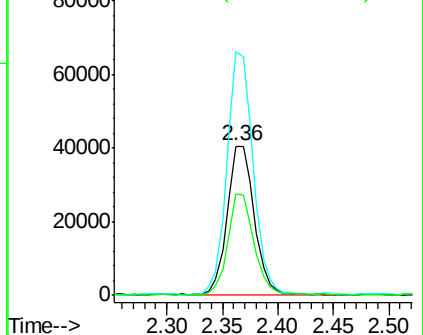
98 67.3 50.7 76.1



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: 0.256 ug/l

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX013514.D

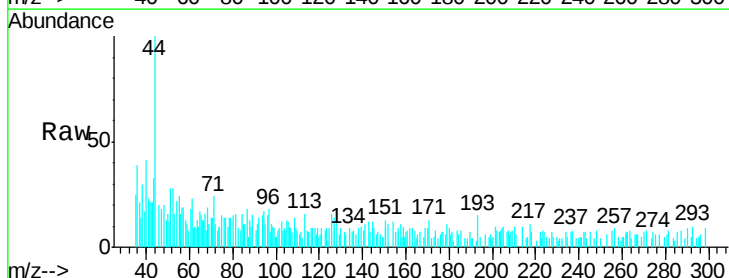
Acq: 21 Nov 2019 19:30

Tgt Ion: 56 Resp: 295

Ion Ratio Lower Upper

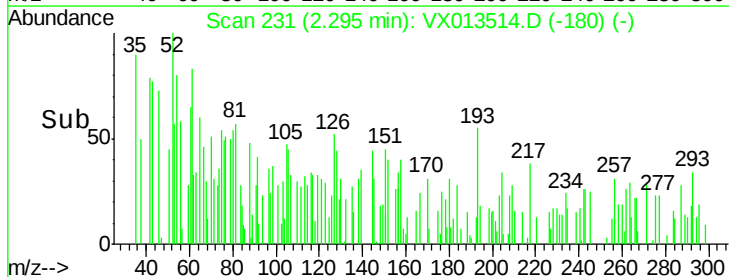
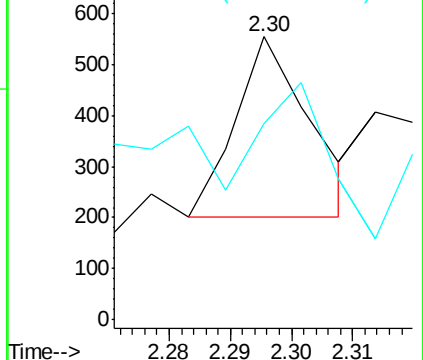
56 100

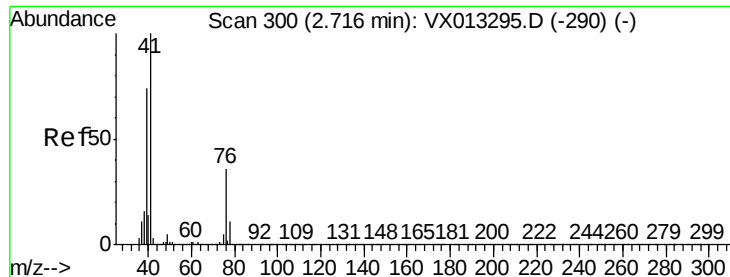
55 80.7 57.4 86.0



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#14

Allyl chloride

Concen: 1.658 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX013514.D

Acq: 21 Nov 2019 19:30

Instrument :

MSVOA_X

ClientSampleId :

45BR-20191120

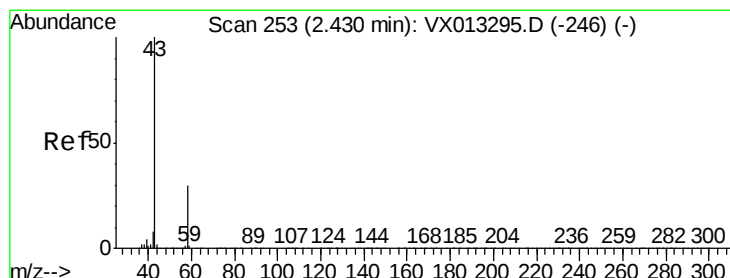
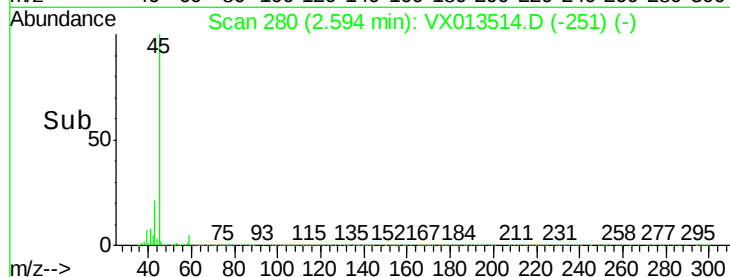
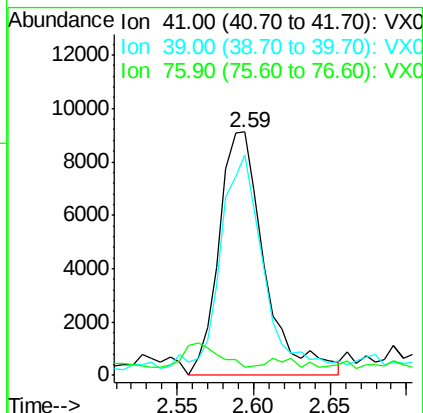
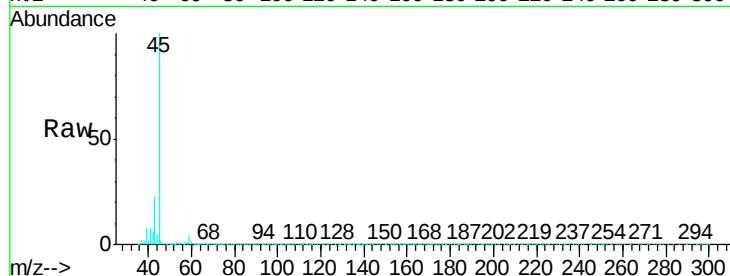
Tgt Ion: 41 Resp: 18820

Ion Ratio Lower Upper

41 100

39 80.7 55.8 83.8

76 3.5 26.4 39.6#



#16

Acetone

Concen: 1.464 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013514.D

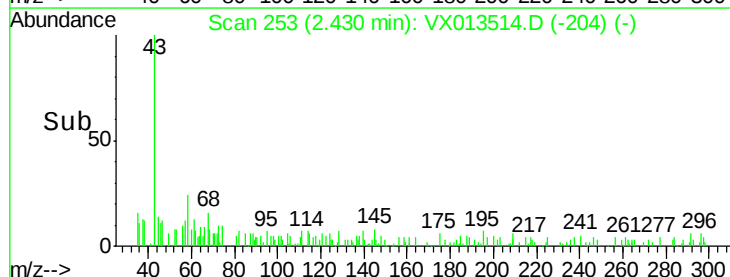
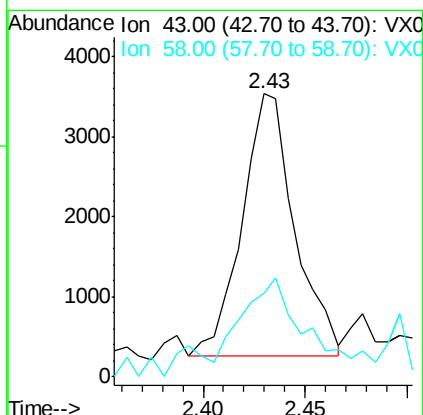
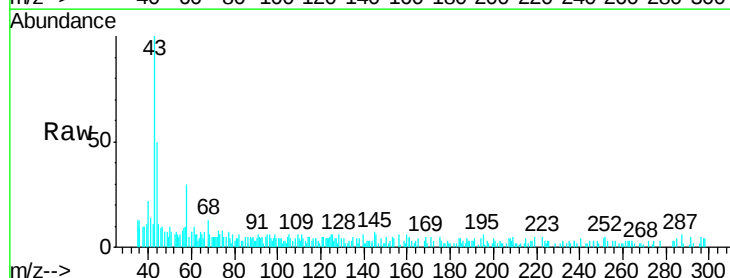
Acq: 21 Nov 2019 19:30

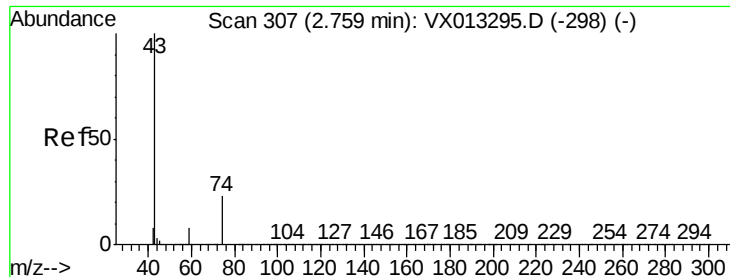
Tgt Ion: 43 Resp: 5894

Ion Ratio Lower Upper

43 100

58 21.8 24.3 36.5#

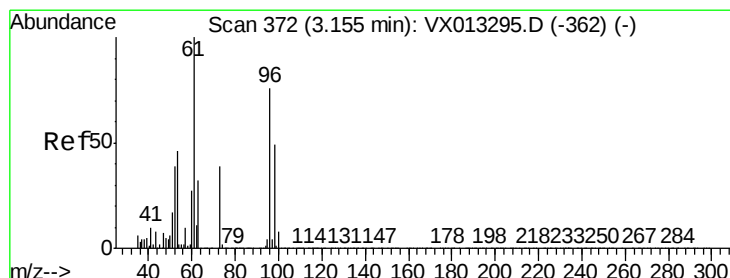
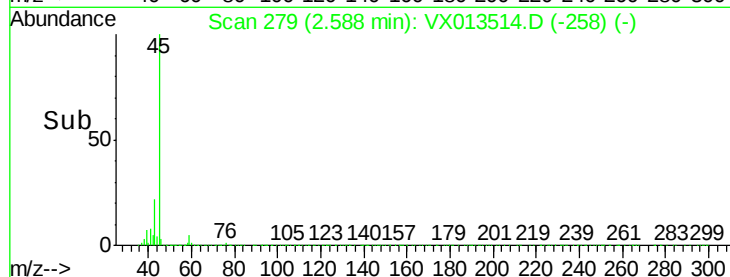
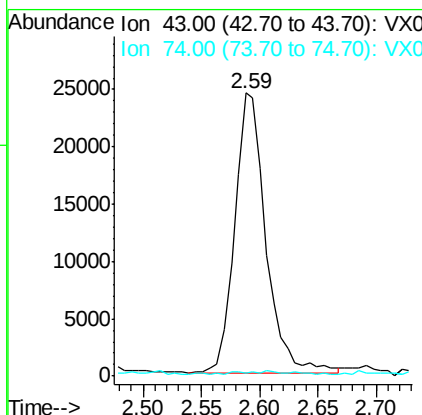
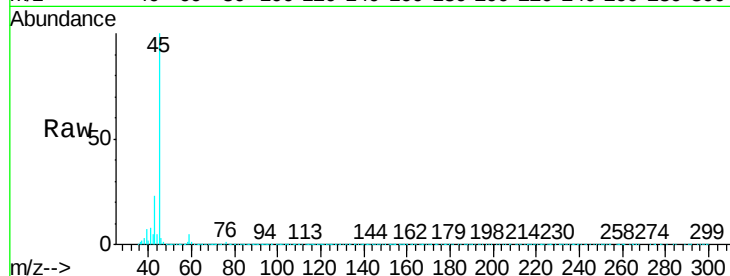




#18
Methyl Acetate
Concen: 4.067 ug/l
RT: 2.59 min Scan# 279
Delta R.T. -0.17 min
Lab File: VX013514.D
Acq: 21 Nov 2019 19:30

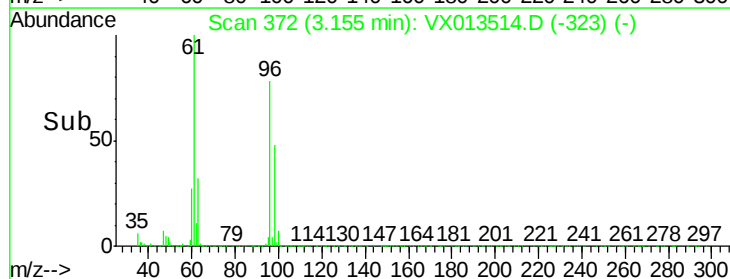
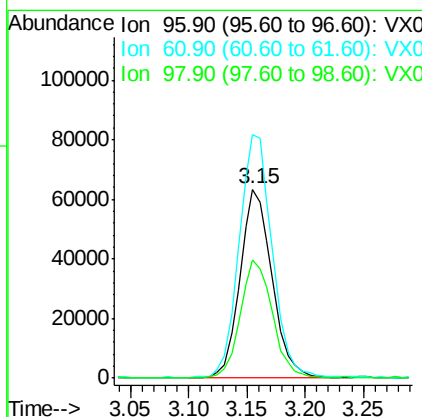
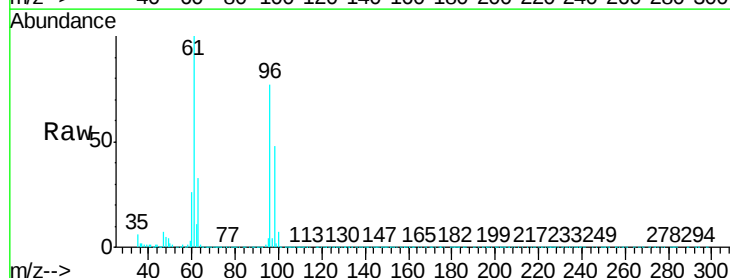
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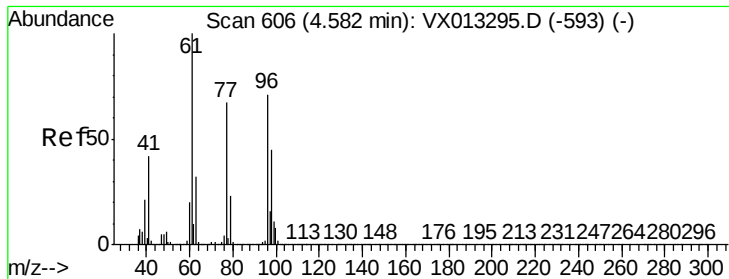
Tgt Ion: 43 Resp: 45203
Ion Ratio Lower Upper
43 100
74 0.5 19.0 28.6#



#21
trans-1,2-Dichloroethene
Concen: 17.797 ug/l
RT: 3.15 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX013514.D
Acq: 21 Nov 2019 19:30

Tgt Ion: 96 Resp: 121083
Ion Ratio Lower Upper
96 100
61 128.8 105.8 158.6
98 62.4 51.8 77.6



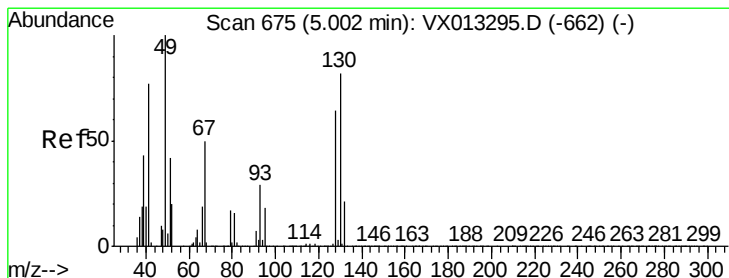
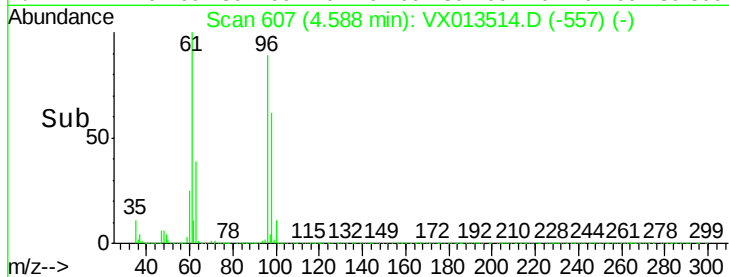
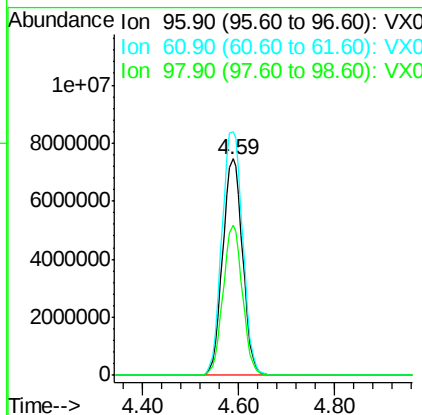
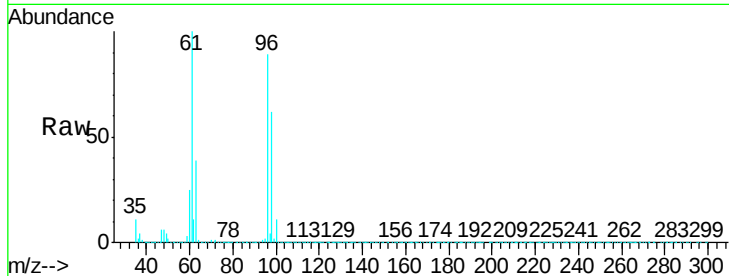


#27

cis-1,2-Dichloroethene
 Concen: 2822.893 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX013514.D
 Acq: 21 Nov 2019 19:30

Instrument :
 MSVOA_X
 ClientSampleId :
 45BR-20191120

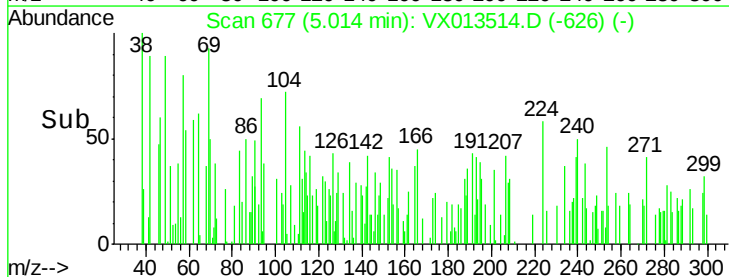
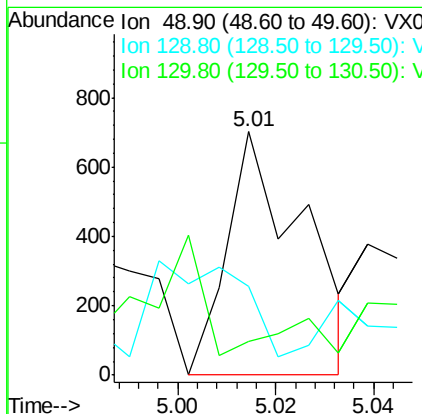
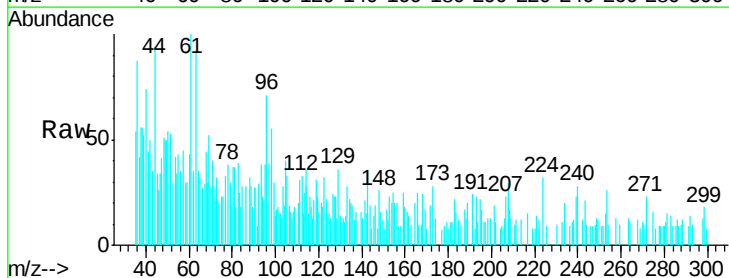
Tgt Ion: 96 Resp:21515007
 Ion Ratio Lower Upper
 96 100
 61 118.0 0.0 288.0
 98 67.2 0.0 129.6

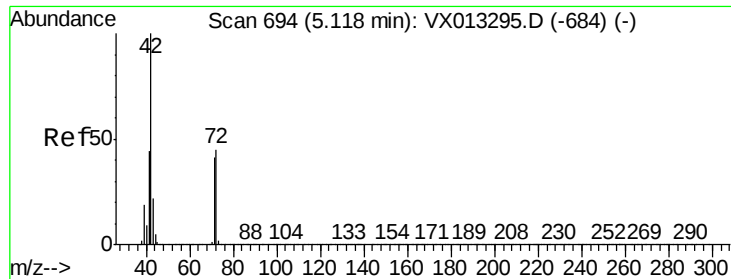


#28

Bromochloromethane
 Concen: 0.218 ug/l
 RT: 5.01 min Scan# 677
 Delta R.T. 0.01 min
 Lab File: VX013514.D
 Acq: 21 Nov 2019 19:30

Tgt Ion: 49 Resp: 759
 Ion Ratio Lower Upper
 49 100
 129 73.0 0.0 5.2#
 130 40.1 63.8 95.6#





#29

Tetrahydrofuran

Concen: 2.664 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.01 min

Lab File: VX013514.D

Acq: 21 Nov 2019 19:30

Instrument :

MSVOA_X

ClientSampleId :

45BR-20191120

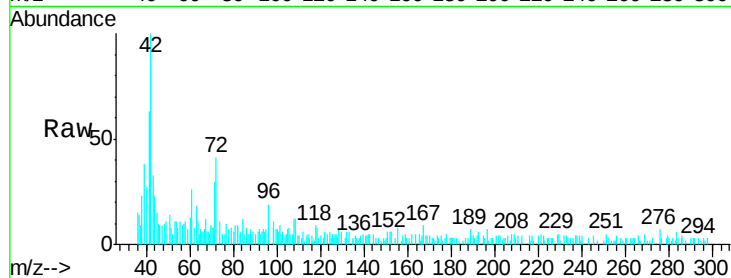
Tgt Ion: 42 Resp: 9694

Ion Ratio Lower Upper

42 100

72 51.3 35.8 53.8

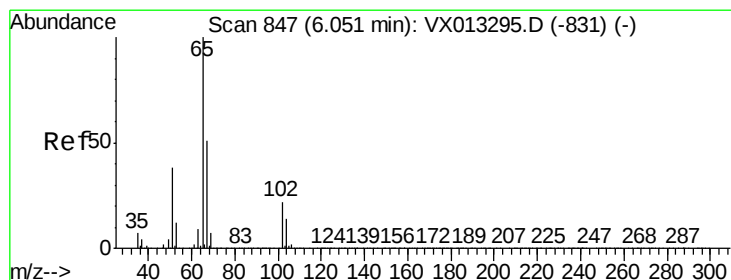
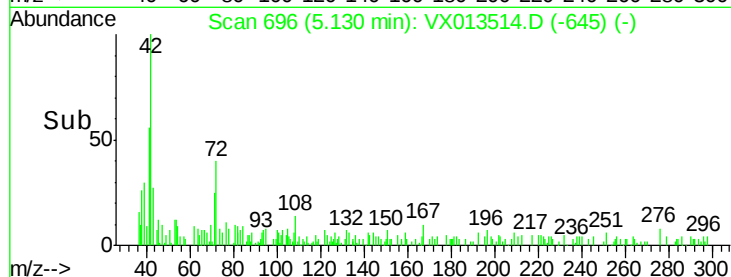
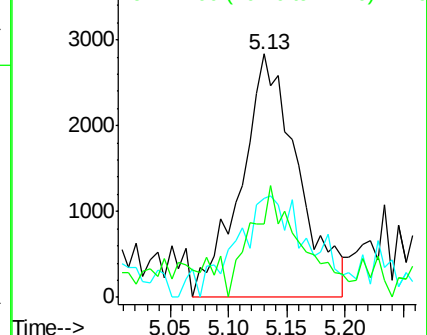
71 40.4 33.4 50.0



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.627 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013514.D

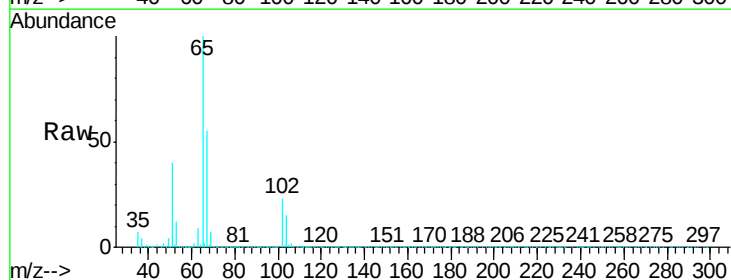
Acq: 21 Nov 2019 19:30

Tgt Ion: 65 Resp: 408585

Ion Ratio Lower Upper

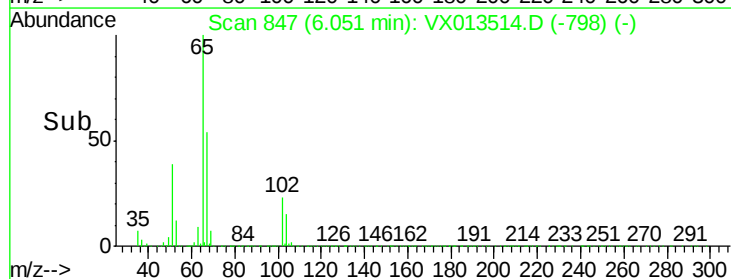
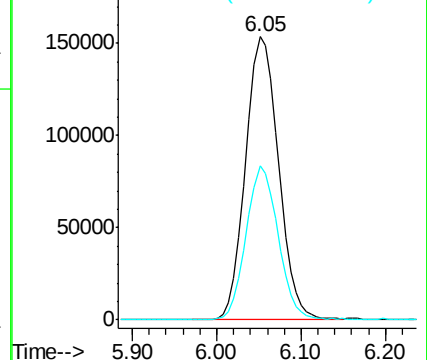
65 100

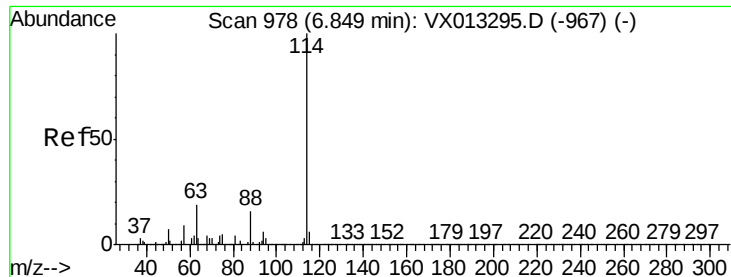
67 52.5 0.0 104.2



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: VX013514.D

Acq: 21 Nov 2019 19:30

Instrument :

MSVOA_X

ClientSampleId :

45BR-20191120

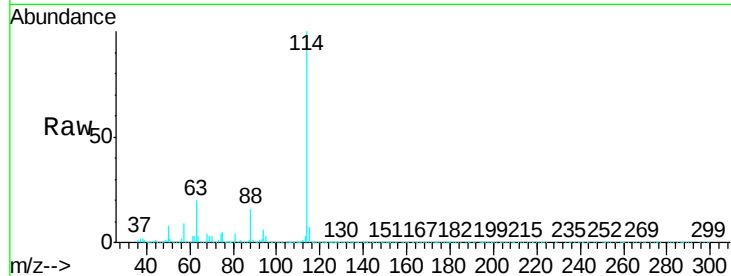
Tgt Ion:114 Resp: 1108103

Ion Ratio Lower Upper

114 100

63 20.1 0.0 38.4

88 15.6 0.0 32.2



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

600000

500000

400000

300000

200000

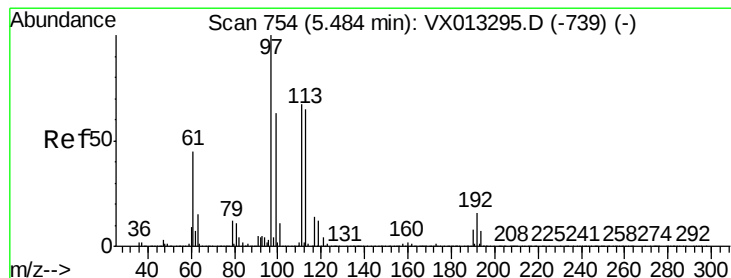
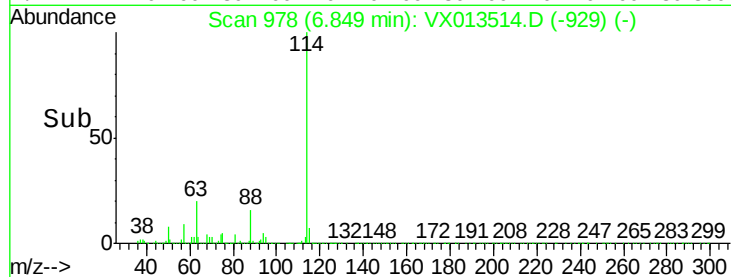
100000

0

6.85

6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 48.503 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013514.D

Acq: 21 Nov 2019 19:30

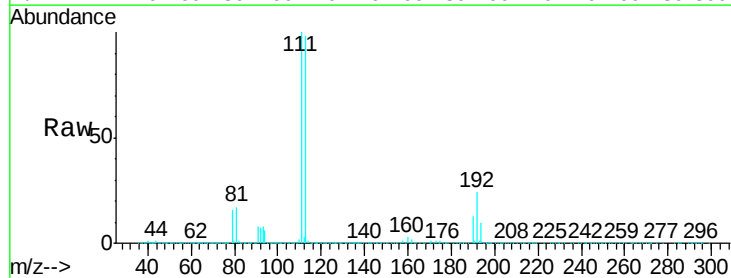
Tgt Ion:113 Resp: 337101

Ion Ratio Lower Upper

113 100

111 101.7 81.9 122.9

192 23.3 19.1 28.7



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

150000

100000

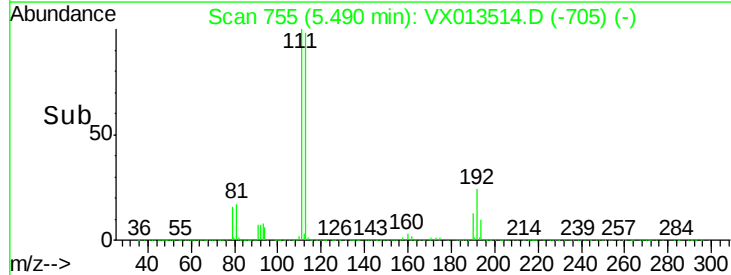
50000

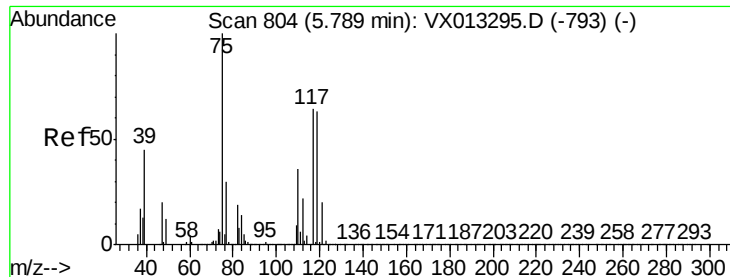
0

5.49

5.40 5.50 5.60

Time-->

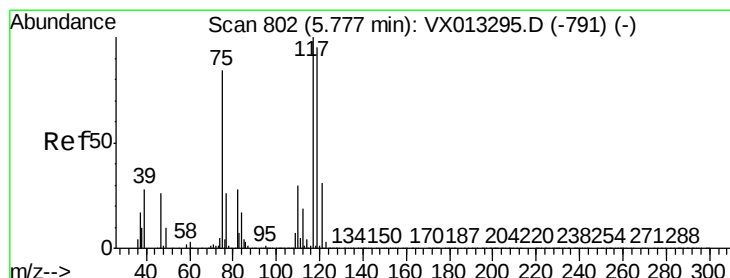
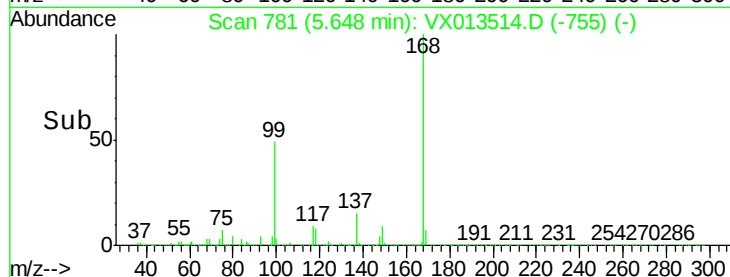
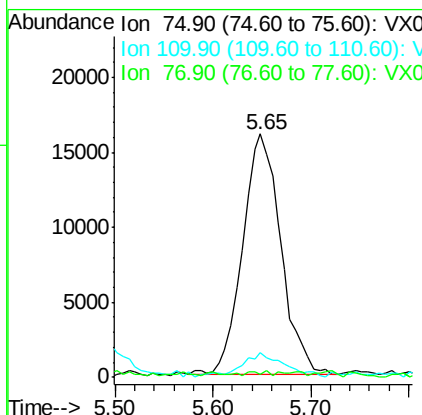
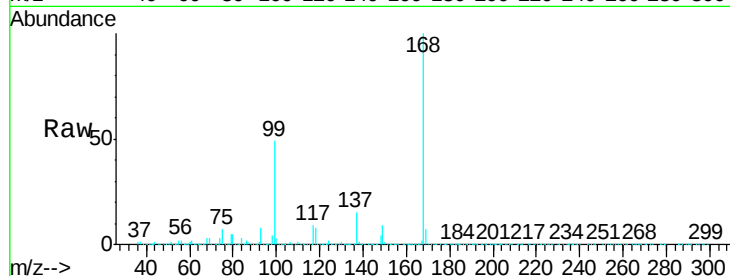




#36
 1,1-Dichloropropene
 Concen: 4.587 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013514.D
 Acq: 21 Nov 2019 19:30

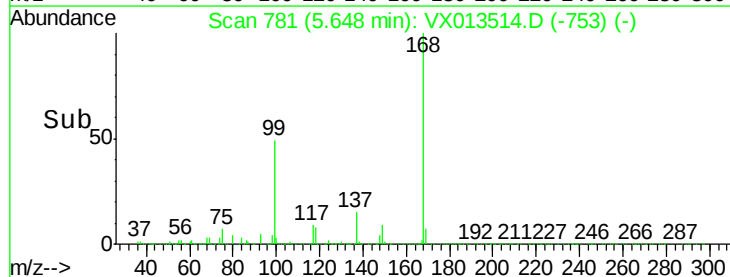
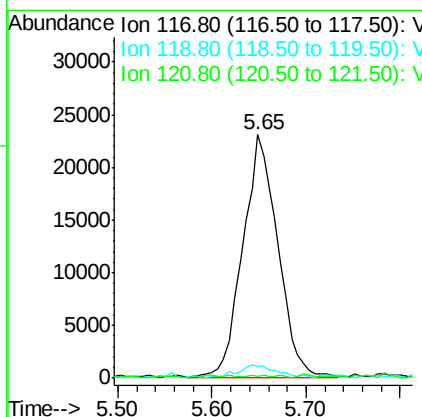
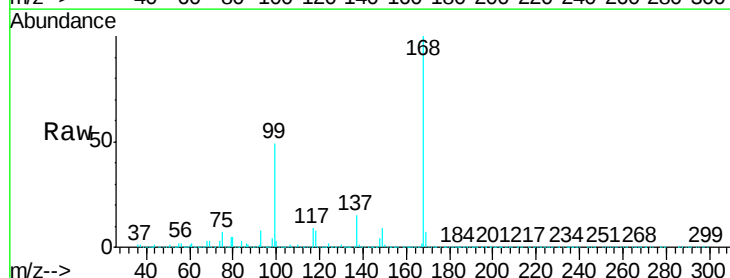
Instrument :
 MSVOA_X
 ClientSampleId :
 45BR-20191120

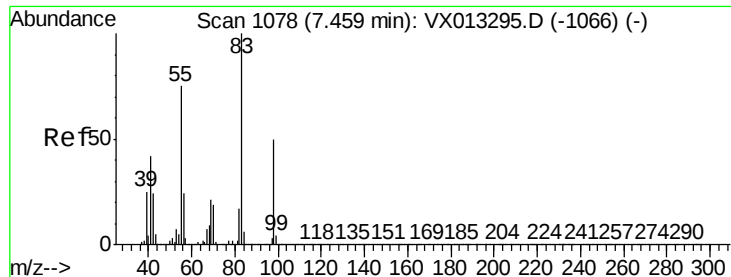
Tgt Ion: 75 Resp: 43602
 Ion Ratio Lower Upper
 75 100
 110 11.7 18.1 54.1#
 77 0.4 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.430 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX013514.D
 Acq: 21 Nov 2019 19:30

Tgt Ion: 117 Resp: 59771
 Ion Ratio Lower Upper
 117 100
 119 4.2 76.1 114.1#
 121 0.2 24.6 37.0#





#39

Methylcyclohexane

Concen: 3.456 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.25 min

Lab File: VX013514.D

Acq: 21 Nov 2019 19:30

Instrument :

MSVOA_X

ClientSampleId :

45BR-20191120

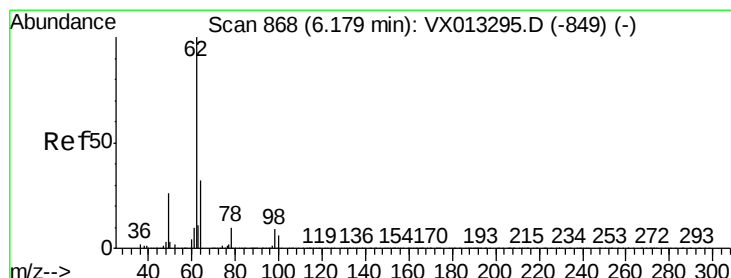
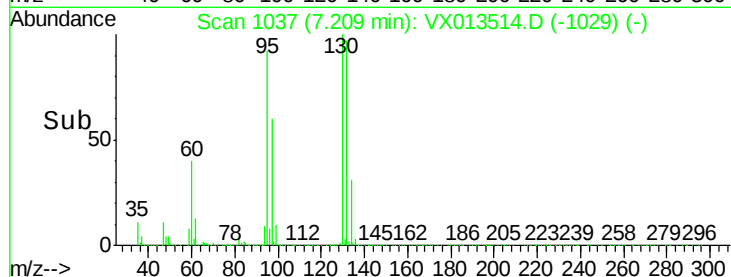
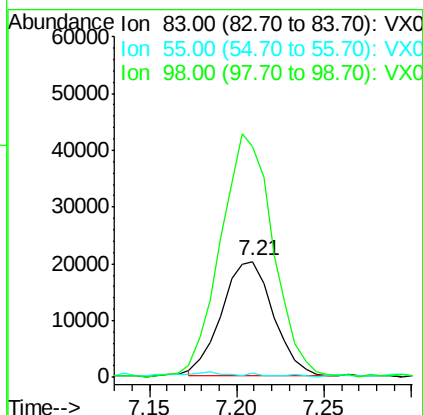
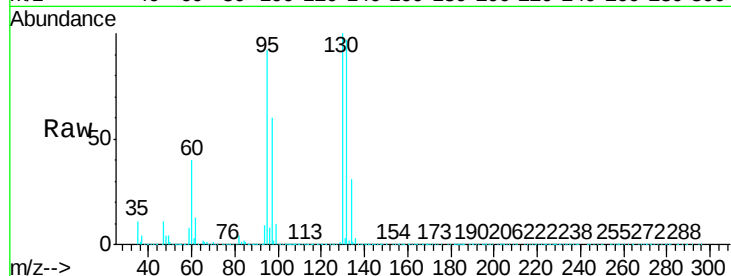
Tgt Ion: 83 Resp: 40936

Ion Ratio Lower Upper

83 100

55 1.1 60.3 90.5#

98 200.8 40.3 60.5#



#42

1,2-Dichloroethane

Concen: 0.203 ug/l

RT: 6.18 min Scan# 869

Delta R.T. 0.01 min

Lab File: VX013514.D

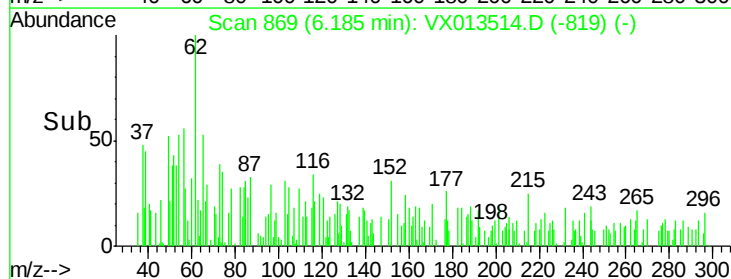
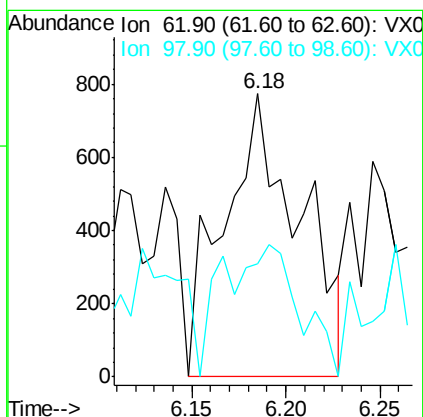
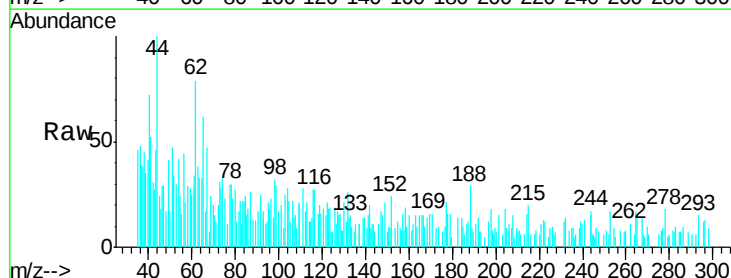
Acq: 21 Nov 2019 19:30

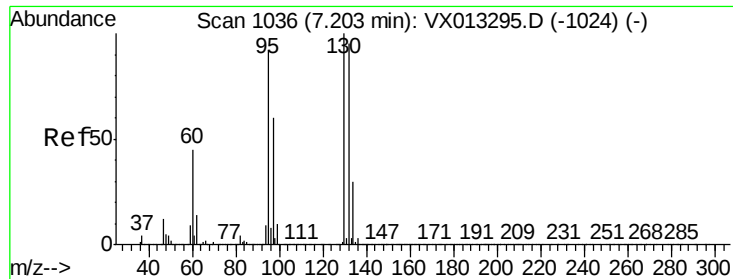
Tgt Ion: 62 Resp: 2170

Ion Ratio Lower Upper

62 100

98 27.7 0.0 19.4#





#44

Trichloroethene

Concen: 475.629 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013514.D

Acq: 21 Nov 2019 19:30

Instrument :

MSVOA_X

ClientSampleId :

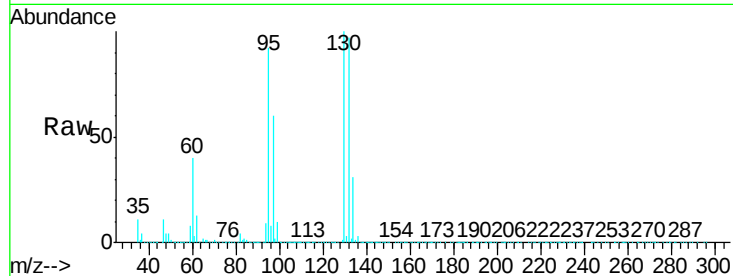
45BR-20191120

Tgt Ion:130 Resp: 3876843

Ion Ratio Lower Upper

130 100

95 92.0 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

2000000

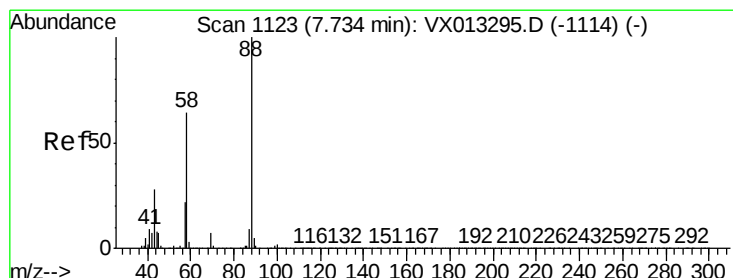
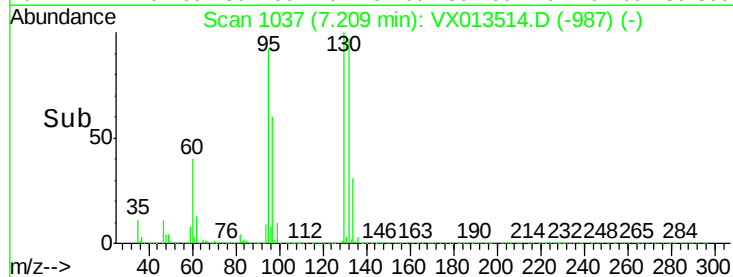
1500000

1000000

500000

0

Time-->



#49

1,4-Dioxane

Concen: 0.612 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX013514.D

Acq: 21 Nov 2019 19:30

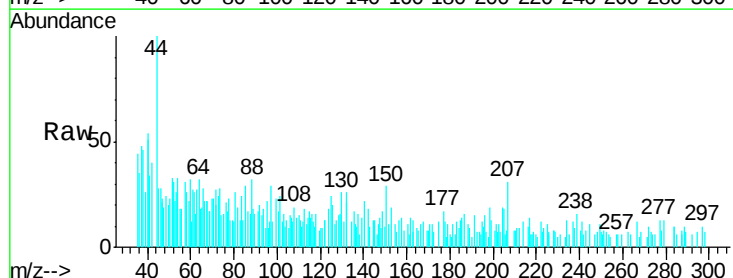
Tgt Ion: 88 Resp: 128

Ion Ratio Lower Upper

88 100

43 0.0 26.6 39.8#

58 289.8 55.0 82.6#



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

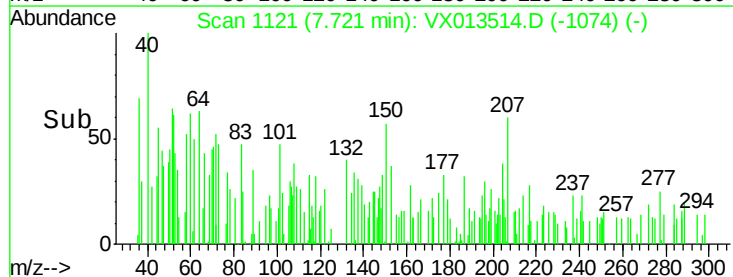
600

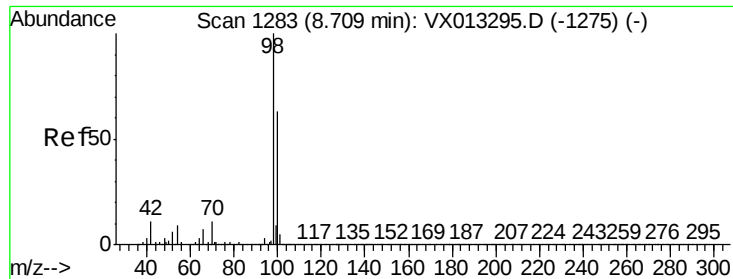
400

200

0

Time-->





#50

Toluene-d8

Concen: 50.527 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013514.D

Acq: 21 Nov 2019 19:30

Instrument :

MSVOA_X

ClientSampleId :

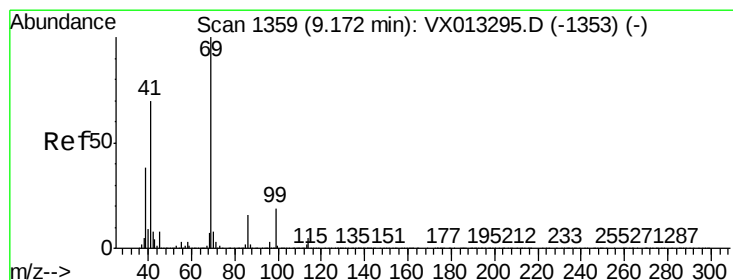
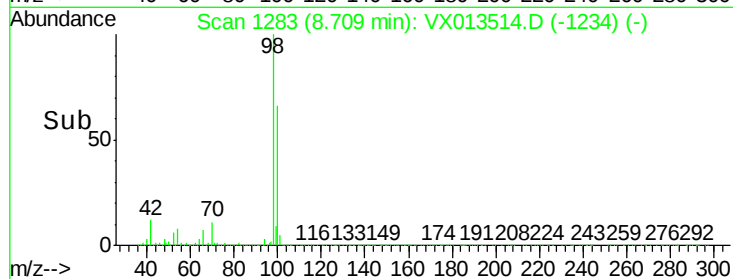
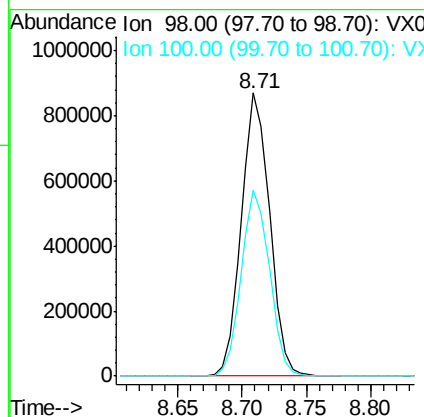
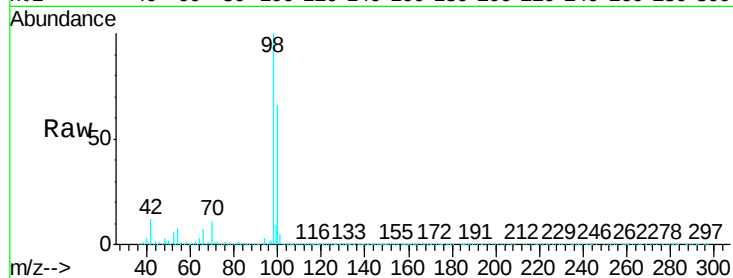
45BR-20191120

Tgt Ion: 98 Resp: 1323881

Ion Ratio Lower Upper

98 100

100 65.8 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.580 ug/l

RT: 9.19 min Scan# 1362

Delta R.T. 0.02 min

Lab File: VX013514.D

Acq: 21 Nov 2019 19:30

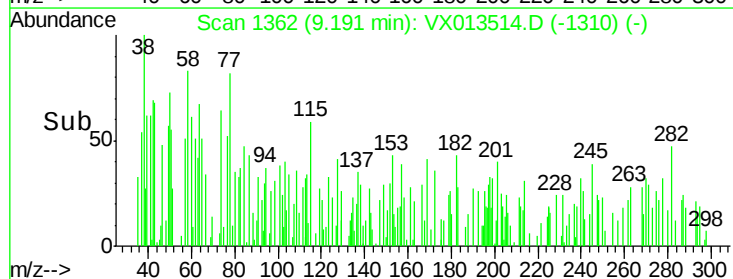
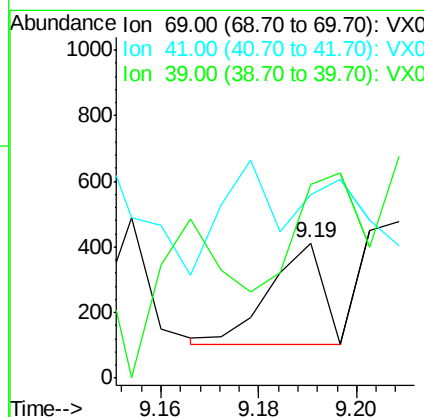
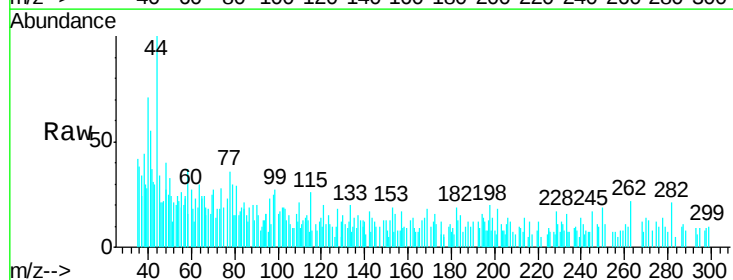
Tgt Ion: 69 Resp: 232

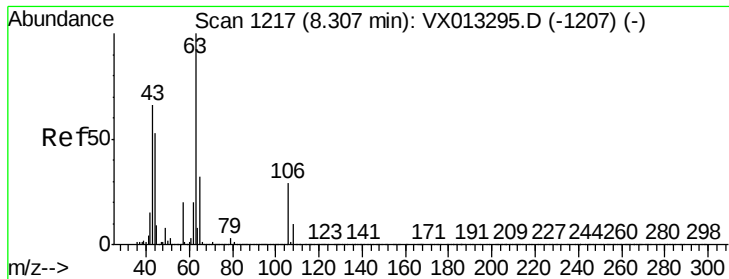
Ion Ratio Lower Upper

69 100

41 110.8 56.2 84.2#

39 139.7 31.1 46.7#

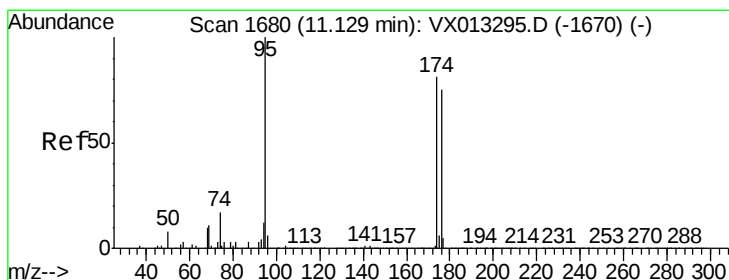
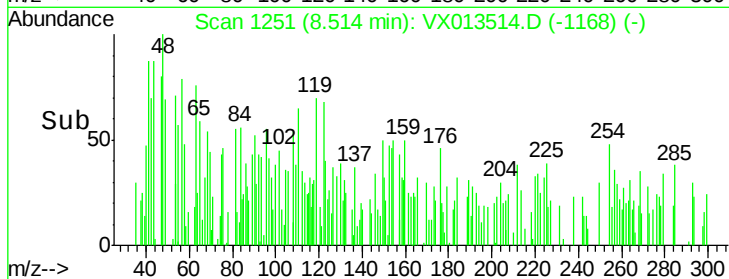
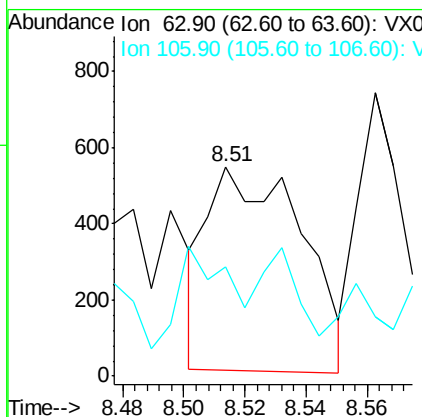
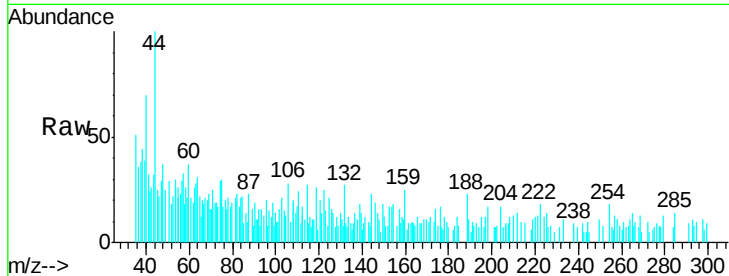




#58
 2-Chloroethyl Vinyl ether
 Concen: 0.221 ug/l
 RT: 8.51 min Scan# 1251
 Delta R.T. 0.21 min
 Lab File: VX013514.D
 Acq: 21 Nov 2019 19:30

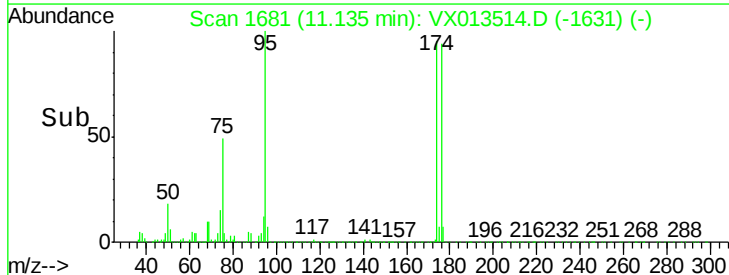
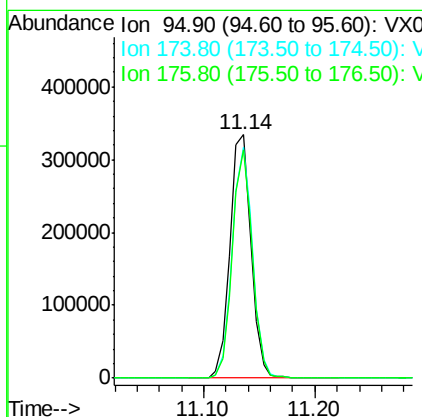
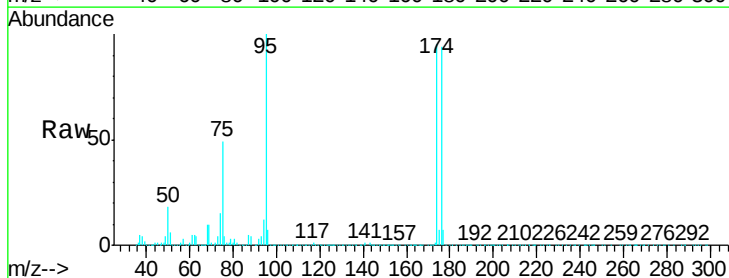
Instrument :
 MSVOA_X
 ClientSampleId :
 45BR-20191120

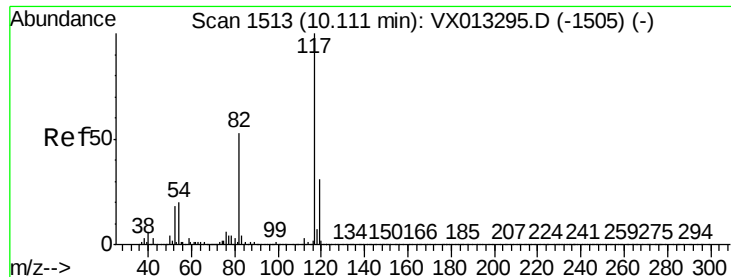
Tgt Ion: 63 Resp: 1149
 Ion Ratio Lower Upper
 63 100
 106 26.7 23.4 35.2



#62
 4-Bromofluorobenzene
 Concen: 46.355 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. 0.01 min
 Lab File: VX013514.D
 Acq: 21 Nov 2019 19:30

Tgt Ion: 95 Resp: 438340
 Ion Ratio Lower Upper
 95 100
 174 91.1 0.0 179.8
 176 88.9 0.0 173.0

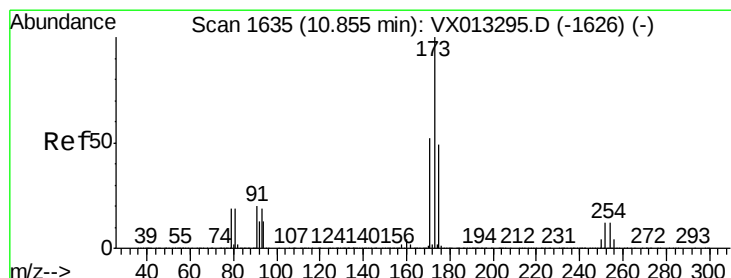
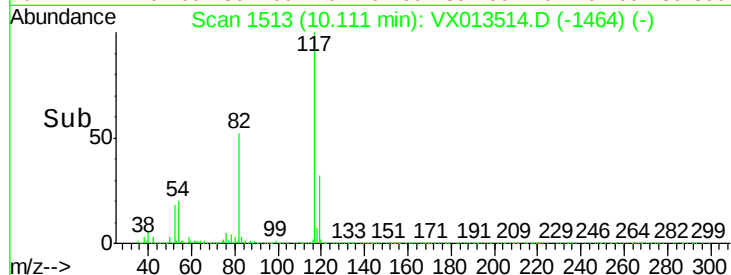
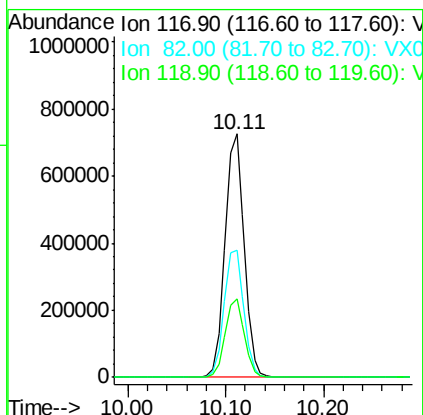
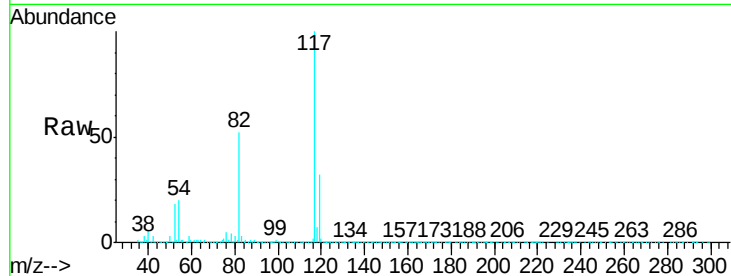




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013514.D
Acq: 21 Nov 2019 19:30

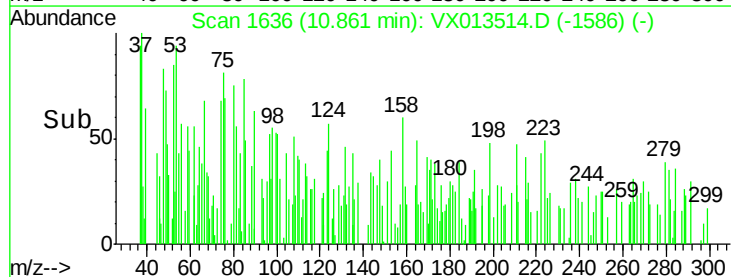
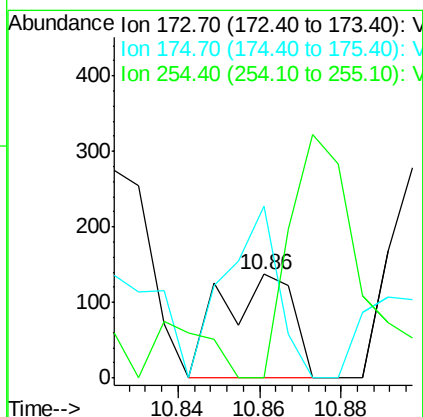
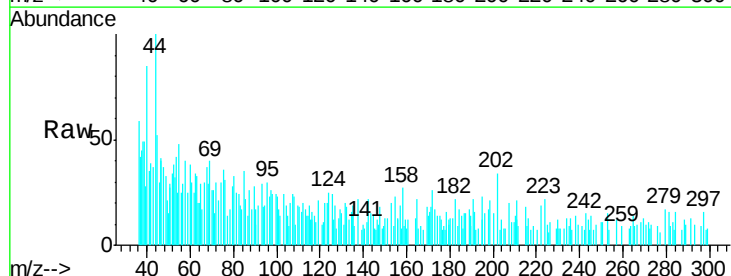
Instrument :
MSVOA_X
ClientSampleId :
45BR-20191120

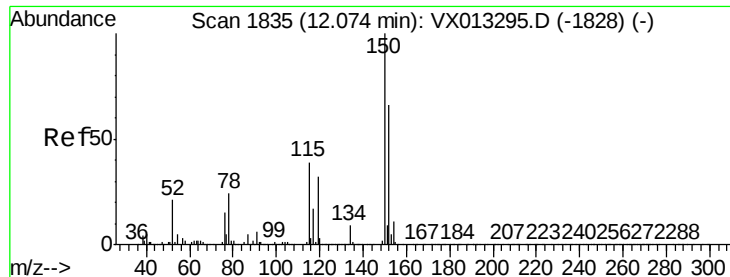
Tgt Ion:117 Resp: 987448
Ion Ratio Lower Upper
117 100
82 52.4 42.6 64.0
119 32.5 24.8 37.2



#71
Bromoform
Concen: 3.225 ug/l
RT: 10.86 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VX013514.D
Acq: 21 Nov 2019 19:30

Tgt Ion:173 Resp: 166
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.4#
254 241.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013514.D

Acq: 21 Nov 2019 19:30

Instrument :

MSVOA_X

ClientSampleId :

45BR-20191120

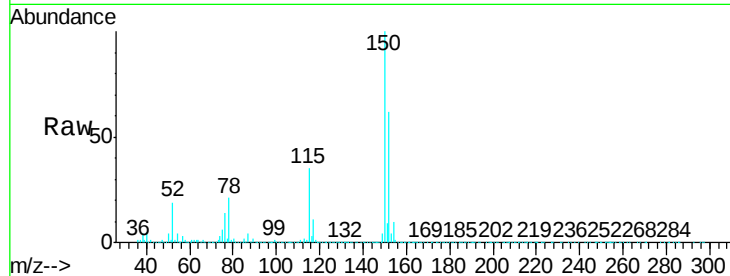
Tgt Ion: 152 Resp: 442989

Ion Ratio Lower Upper

152 100

115 55.8 39.5 118.3

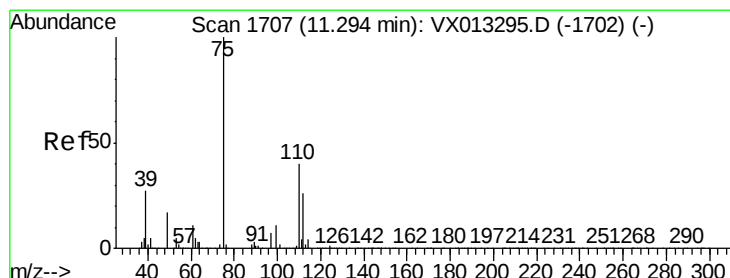
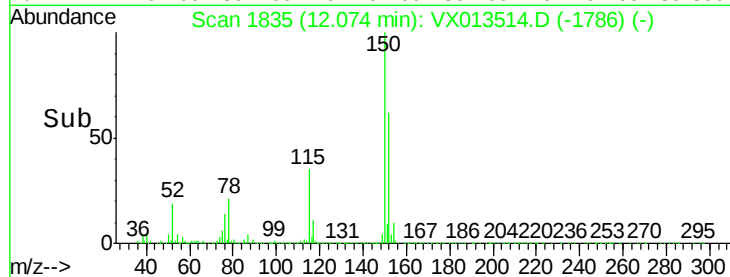
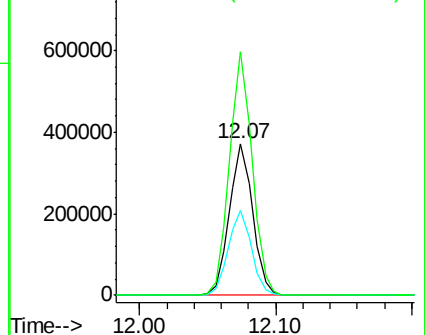
150 157.0 0.0 344.4



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: 23.799 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013514.D

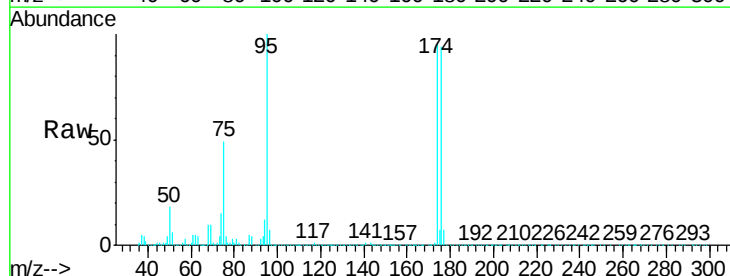
Acq: 21 Nov 2019 19:30

Tgt Ion: 75 Resp: 214140

Ion Ratio Lower Upper

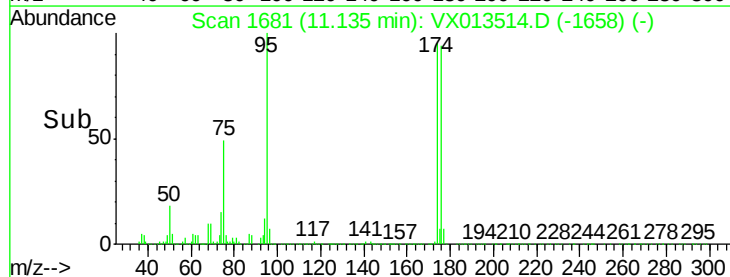
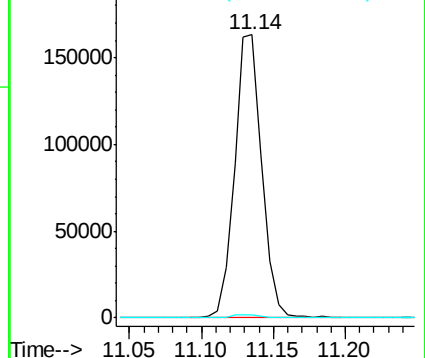
75 100

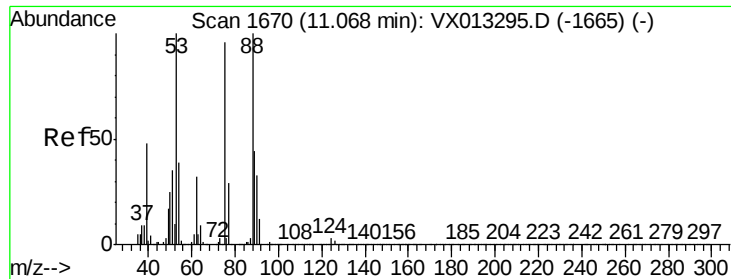
77 1.3 22.3 66.8#



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: 61.259 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013514.D

Acq: 21 Nov 2019 19:30

Instrument :

MSVOA_X

ClientSampleId :

45BR-20191120

Tgt Ion: 75 Resp: 214140

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.1 36.0 54.0#

