

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111519\
 Data File : VX013442.D
 Acq On : 15 Nov 2019 13:39
 Operator : JC/SP
 Sample : K5884-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0164

Quant Time: Nov 15 23:01:22 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

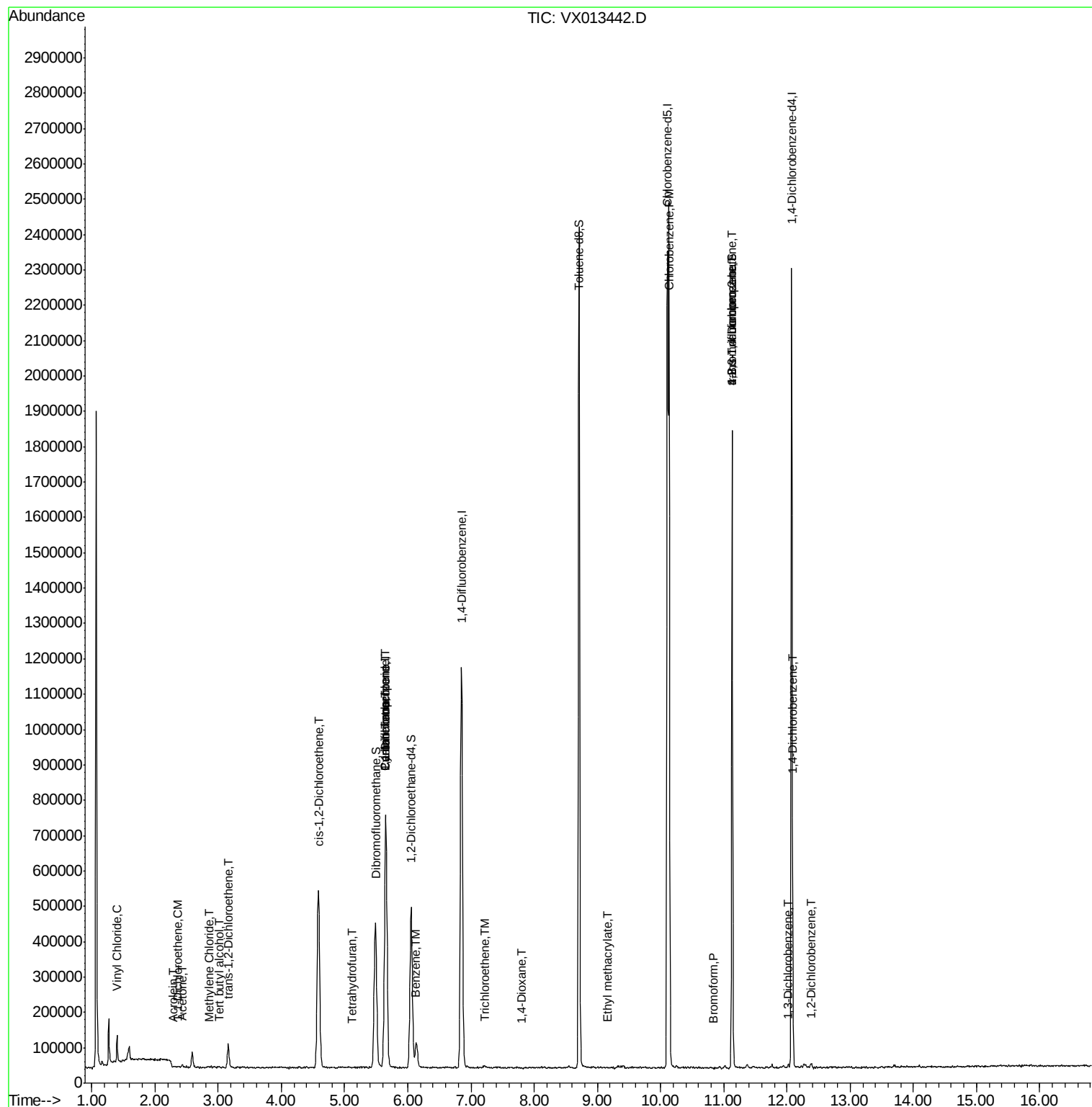
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	733446	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1186027	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1046763	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	469143	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	428592	49.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.64%	
35) Dibromofluoromethane	5.48	113	353871	47.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.14%	
50) Toluene-d8	8.71	98	1392827	49.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.34%	
62) 4-Bromofluorobenzene	11.14	95	466434	46.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.16%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.40	62	44461	4.261	ug/l	99
6) Chloroethane	1.81	64	1361	Below Cal	#	43
11) Tert butyl alcohol	3.02	59	4487	1.959	ug/l #	25
12) 1,1-Dichloroethene	2.36	96	2353	0.350	ug/l #	74
13) Acrolein	2.28	56	274	0.221	ug/l	94
16) Acetone	2.43	43	7941	1.832	ug/l	98
20) Methylene Chloride	2.86	84	2013	0.251	ug/l #	43
21) trans-1,2-Dichloroethene	3.15	96	28812	3.933	ug/l	96
27) cis-1,2-Dichloroethene	4.58	96	334534	40.768	ug/l	89
29) Tetrahydrofuran	5.12	42	1669	0.426	ug/l #	41
31) Cyclohexane	5.65	56	13330	1.122	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	49065	4.822	ug/l #	45
38) Carbon Tetrachloride	5.65	117	62549	6.287	ug/l #	16
40) Benzene	6.13	78	90743	2.863	ug/l	99
44) Trichloroethene	7.21	130	3719	0.426	ug/l	85
49) 1,4-Dioxane	7.80	88	470	2.100	ug/l	89
56) Ethyl methacrylate	9.17	69	211	1.578	ug/l #	22
65) Chlorobenzene	10.14	112	1086429	51.265	ug/l	99
71) Bromoform	10.83	173	464	3.263	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	227750	23.901	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.14	75	227750	61.520	ug/l #	9
87) 1,3-Dichlorobenzene	12.02	146	3857	0.261	ug/l	87
88) 1,4-Dichlorobenzene	12.09	146	43532	2.891	ug/l	91
91) 1,2-Dichlorobenzene	12.39	146	3221	0.218	ug/l	83

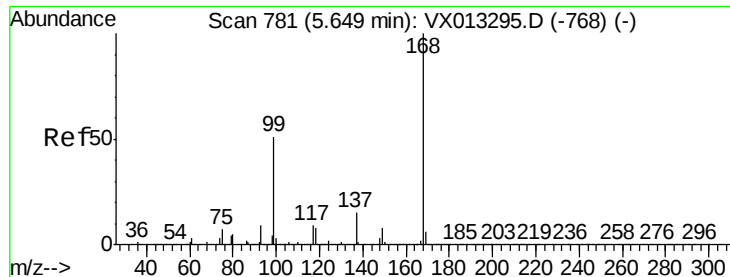
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX111519\
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Quant Time: Nov 15 23:01:22 2019
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: VX013442.D

Acq: 15 Nov 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

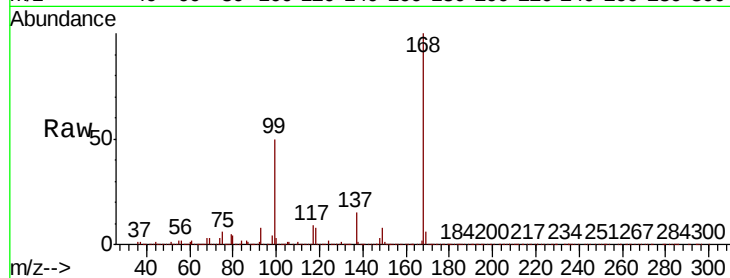
S36-0164

Tot Ion:168 Resp: 733446

Ion Ratio Lower Upper

168 100

99 49.7 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

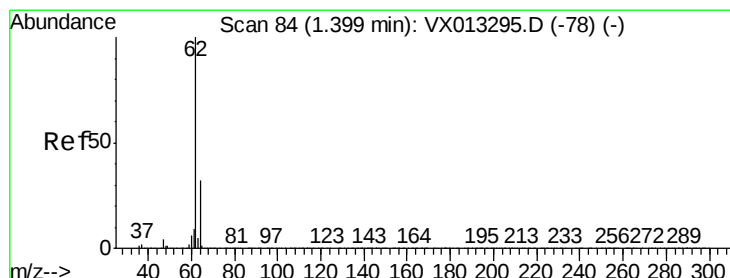
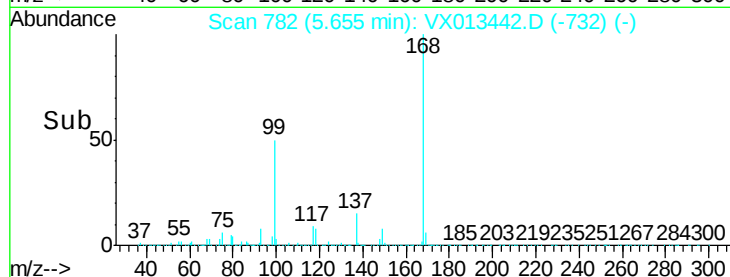
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 4.261 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013442.D

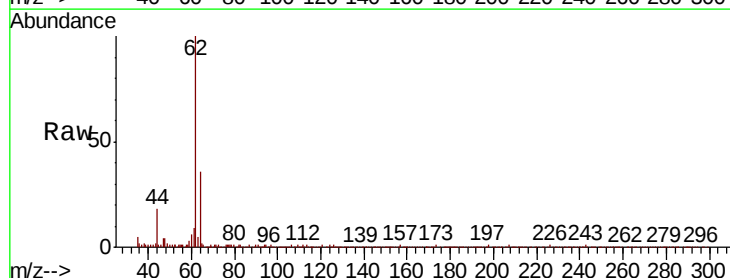
Acq: 15 Nov 2019 13:39

Tgt Ion: 62 Resp: 44461

Ion Ratio Lower Upper

62 100

64 31.4 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

50000

40000

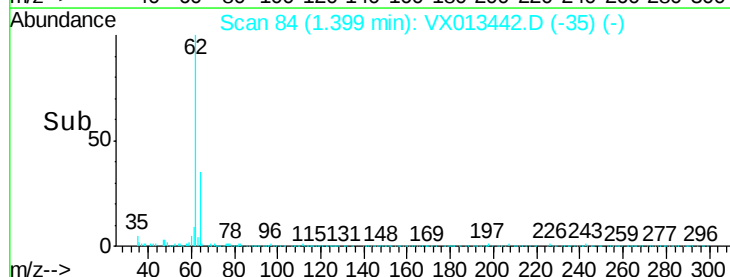
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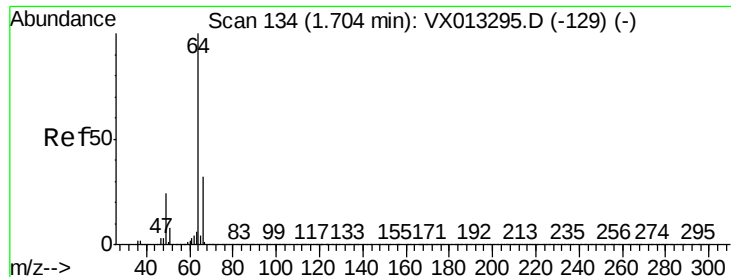
20000

10000

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.81 min Scan# 151

Delta R.T. 0.10 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

Instrument :

MSVOA_X

ClientSampled :

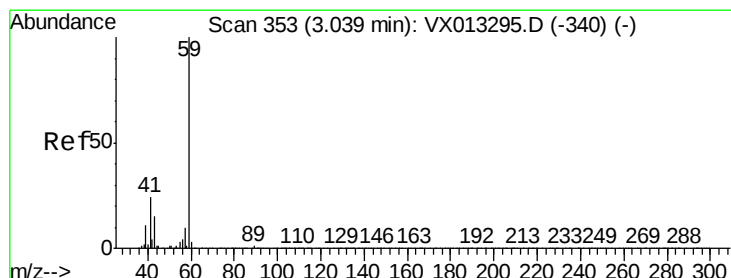
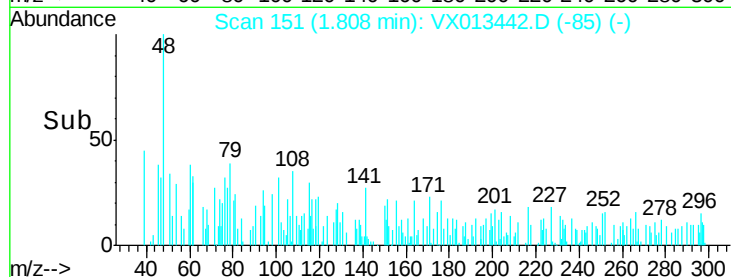
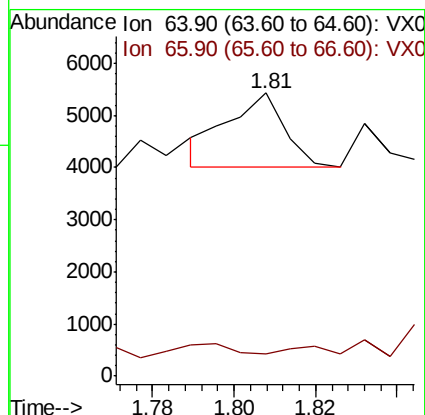
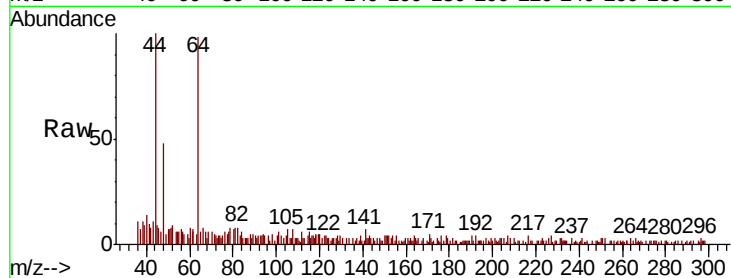
S36-0164

Tot Ion: 64 Resp: 1361

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#11

Tert butyl alcohol

Concen: 1.959 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.02 min

Lab File: VX013442.D

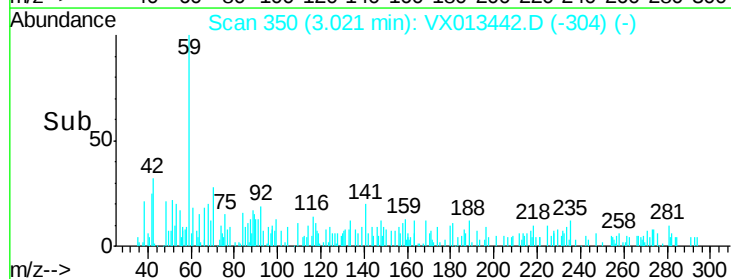
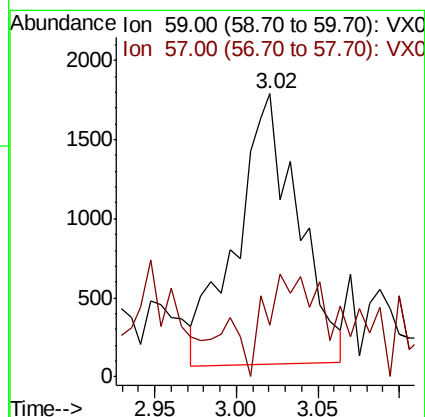
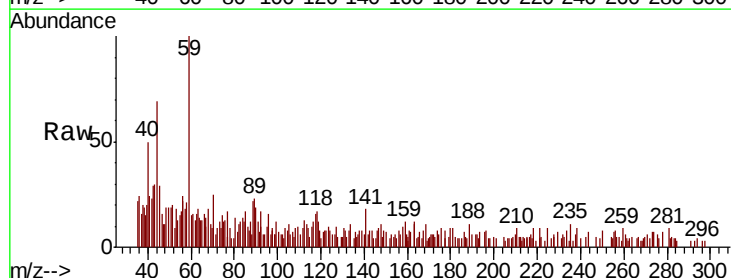
Acq: 15 Nov 2019 13:39

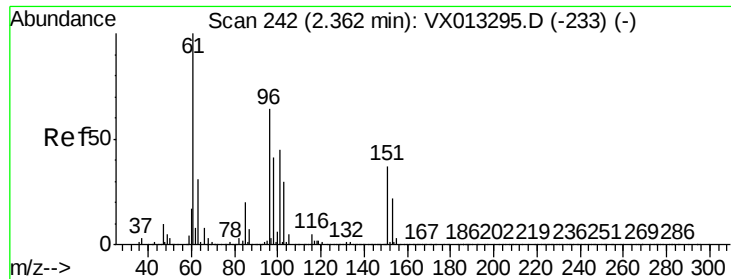
Tgt Ion: 59 Resp: 4487

Ion Ratio Lower Upper

59 100

57 37.8 8.0 12.0#





#12

1,1-Dichloroethene

Concen: 0.350 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.00 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

S36-0164

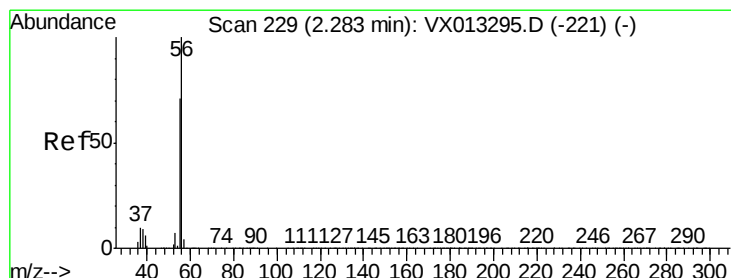
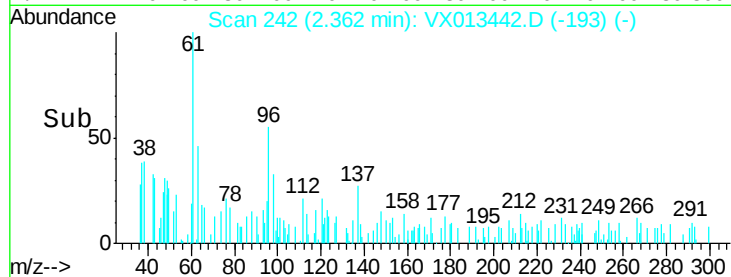
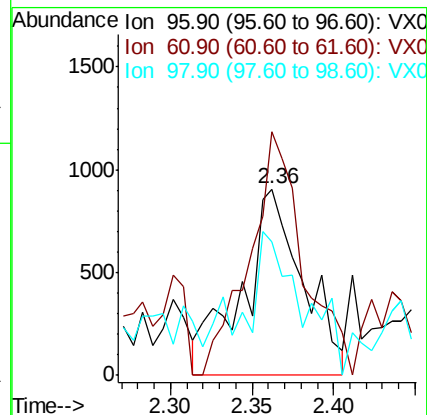
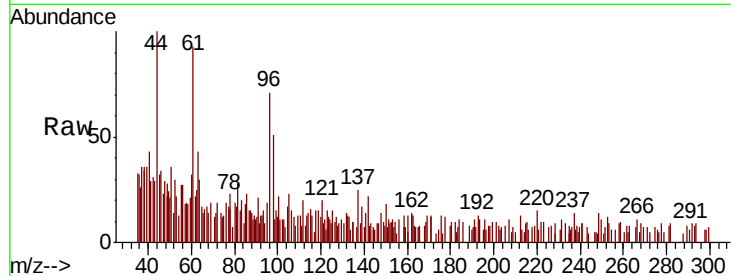
Tot Ion: 96 Resp: 2353

Ion Ratio Lower Upper

96 100

61 112.8 125.0 187.6#

98 69.2 50.7 76.1



#13

Acrolein

Concen: 0.221 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX013442.D

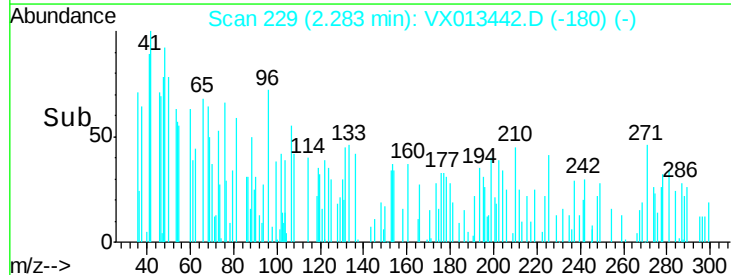
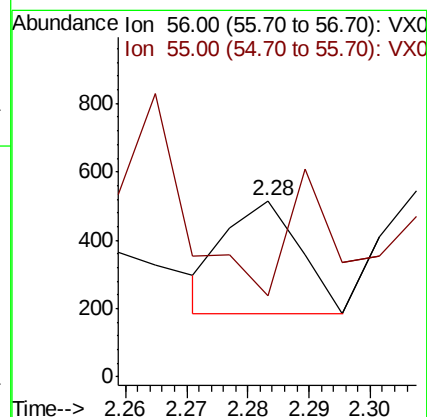
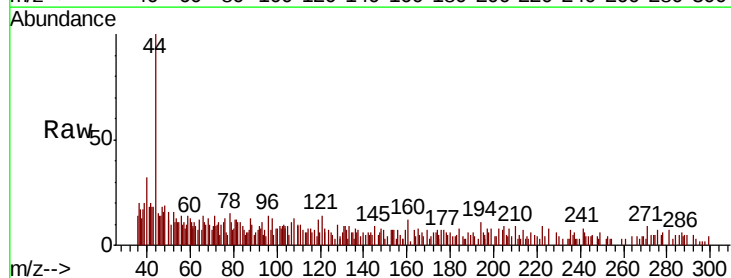
Acq: 15 Nov 2019 13:39

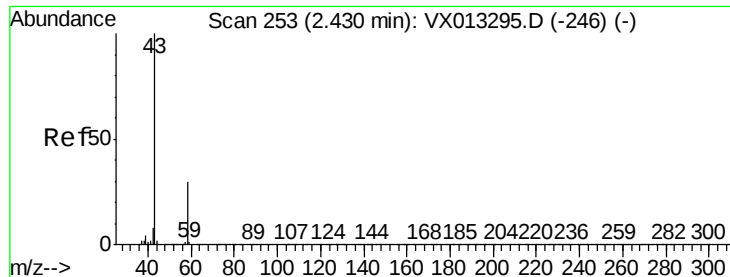
Tgt Ion: 56 Resp: 274

Ion Ratio Lower Upper

56 100

55 77.0 57.4 86.0

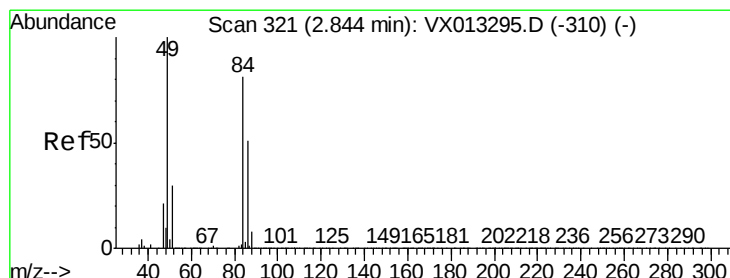
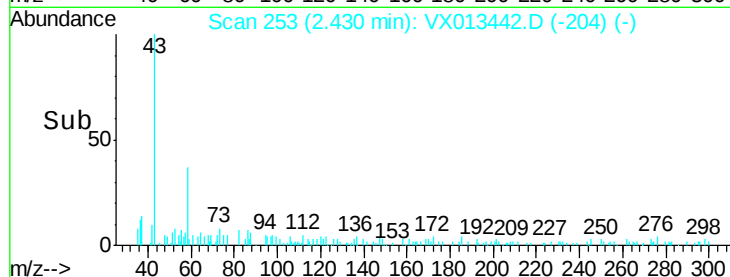
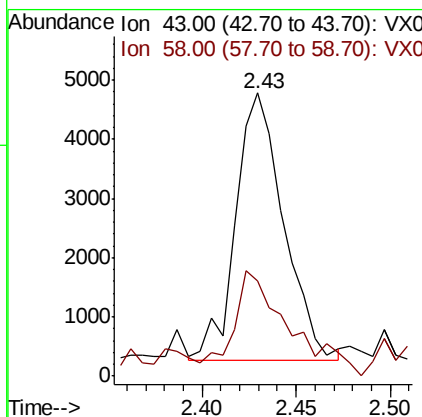
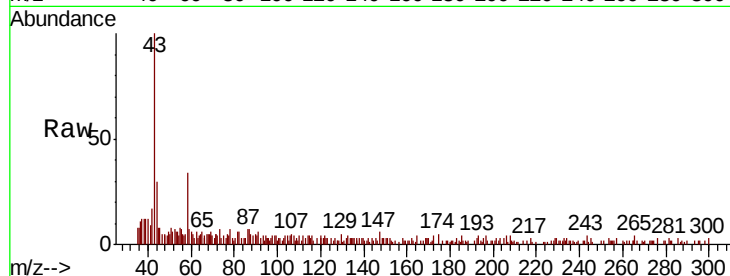




#16
Acetone
Concen: 1.832 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.00 min
Lab File: VX013442.D
Acq: 15 Nov 2019 13:39

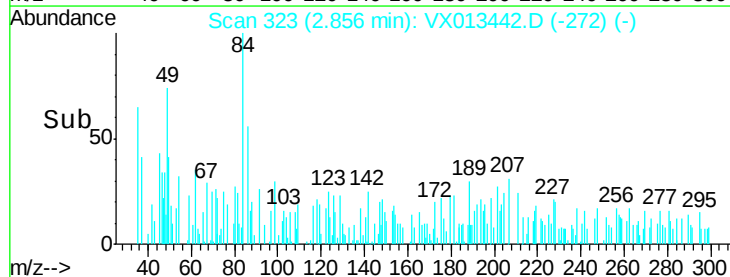
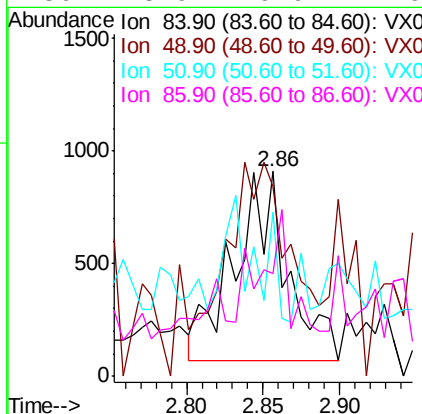
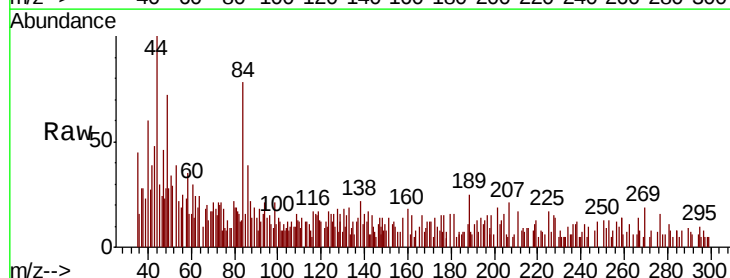
Instrument :
MSVOA_X
ClientSampled :
S36-0164

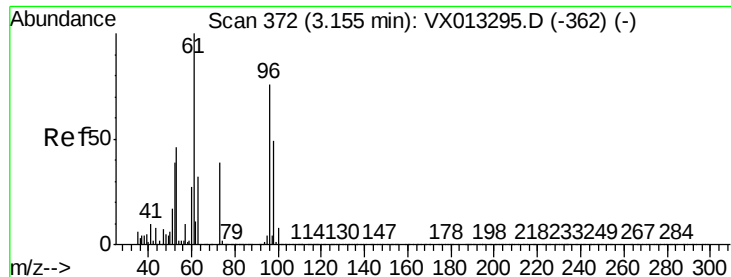
Tot Ion: 43 Resp: 7941
Ion Ratio Lower Upper
43 100
58 29.4 24.3 36.5



#20
Methylene Chloride
Concen: 0.251 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX013442.D
Acq: 15 Nov 2019 13:39

Tgt Ion: 84 Resp: 2013
Ion Ratio Lower Upper
84 100
49 39.3 98.2 147.4#
51 44.9 29.9 44.9
86 23.9 49.9 74.9#





#21

trans-1,2-Dichloroethene

Concen: 3.933 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

Instrument :

MSVOA_X

ClientSampled :

S36-0164

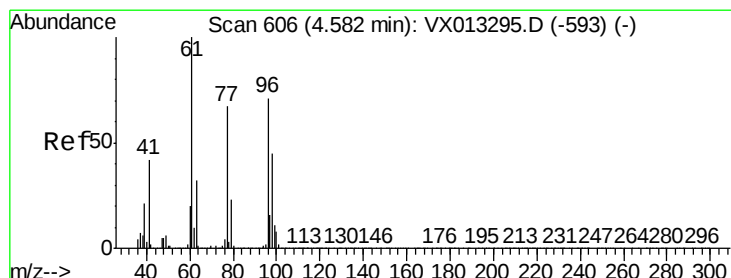
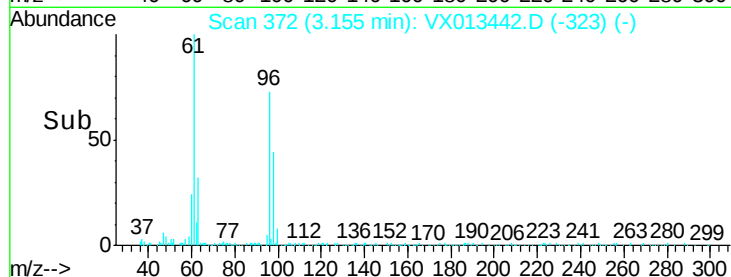
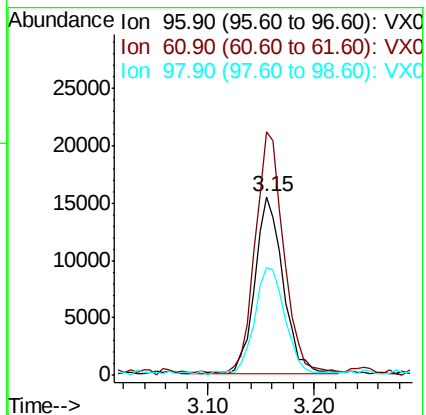
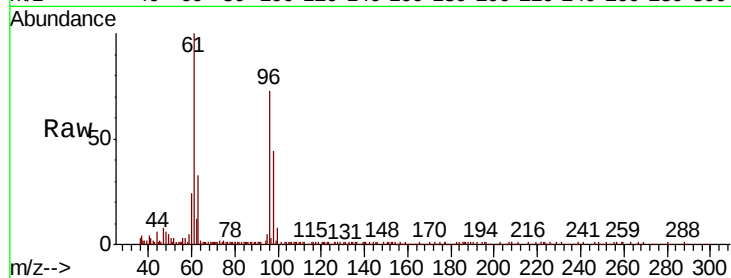
Tot Ion: 96 Resp: 28812

Ion Ratio Lower Upper

96 100

61 136.1 105.8 158.6

98 59.8 51.8 77.6



#27

cis-1,2-Dichloroethene

Concen: 40.768 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.00 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

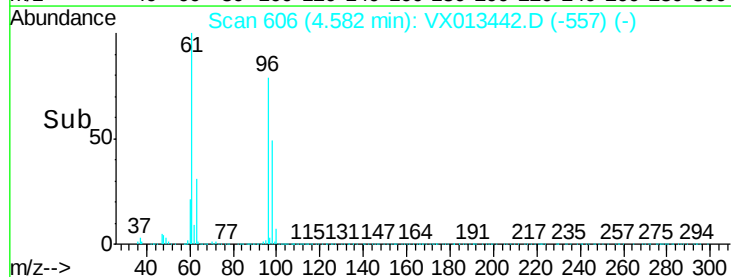
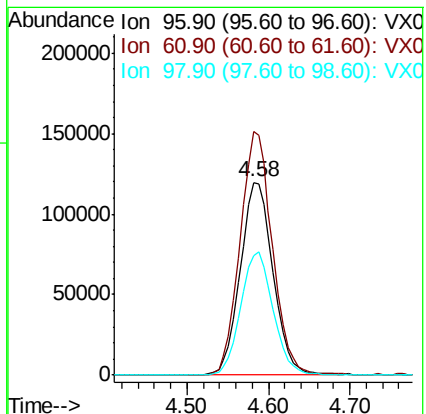
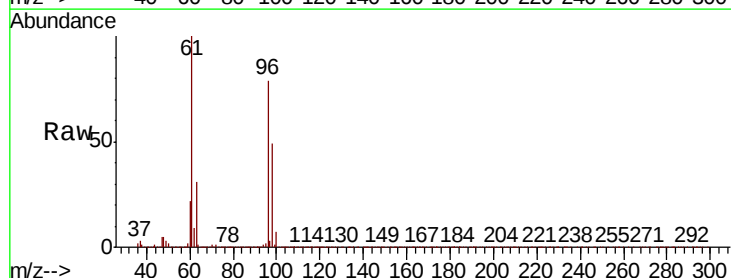
Tgt Ion: 96 Resp: 334534

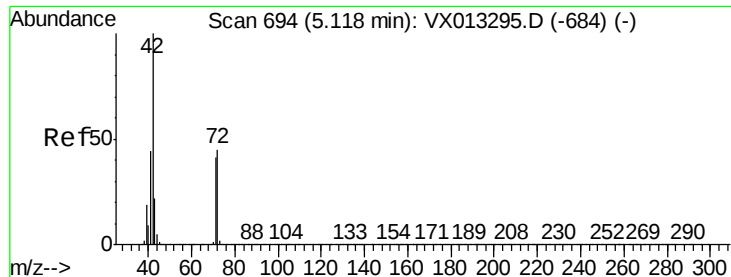
Ion Ratio Lower Upper

96 100

61 124.8 0.0 288.0

98 62.9 0.0 129.6





#29

Tetrahydrofuran

Concen: 0.426 ug/l

RT: 5.12 min Scan# 694

Delta R.T. -0.00 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

Instrument :

MSVOA_X

ClientSampled :

S36-0164

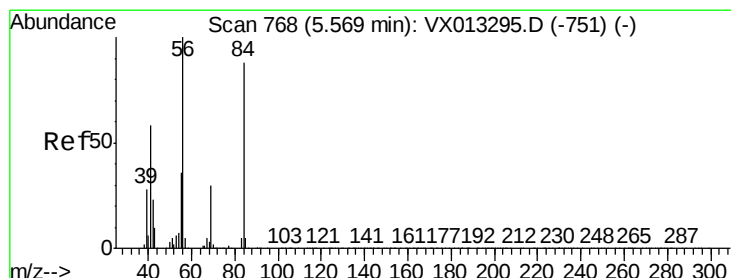
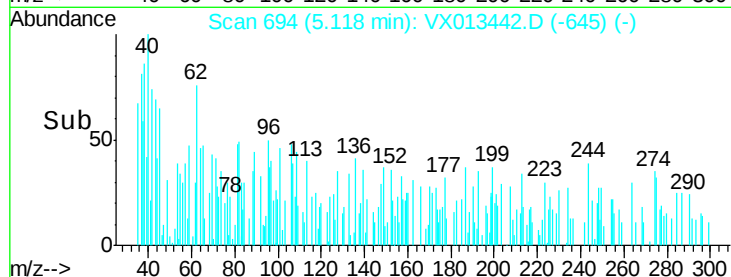
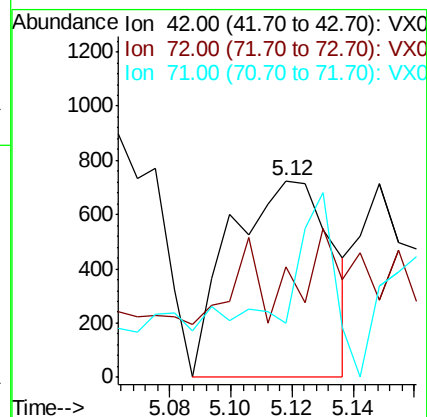
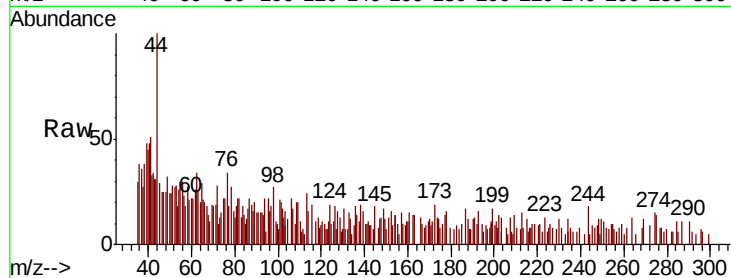
Tot Ion: 42 Resp: 1669

Ion Ratio Lower Upper

42 100

72 10.7 35.8 53.8#

71 0.0 33.4 50.0#



#31

Cyclohexane

Concen: 1.122 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

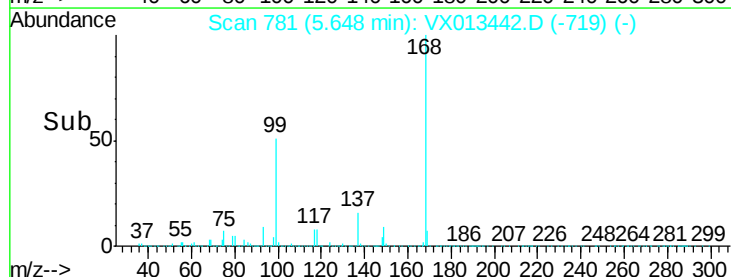
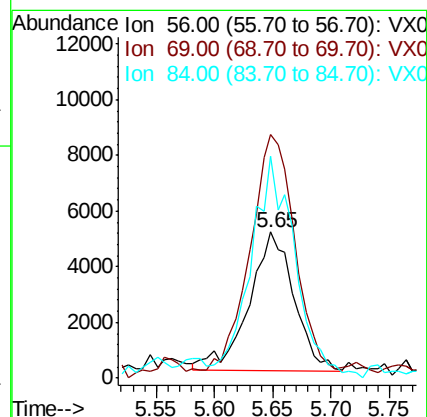
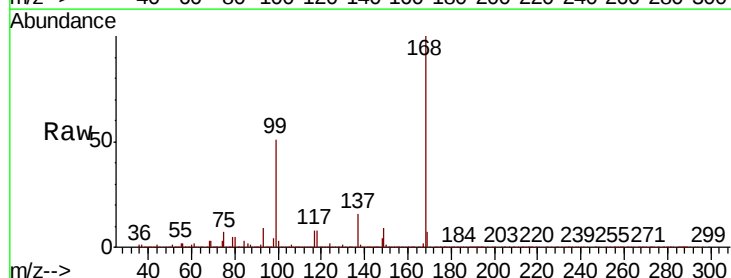
Tgt Ion: 56 Resp: 13330

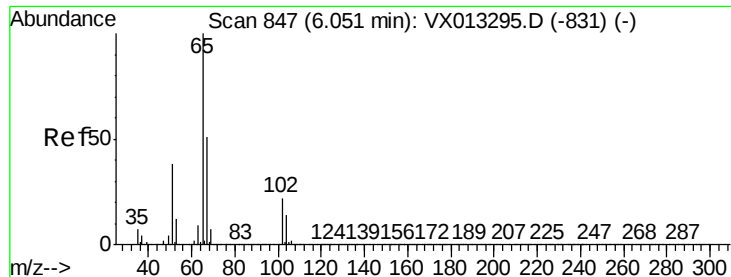
Ion Ratio Lower Upper

56 100

69 170.1 23.7 35.5#

84 156.7 70.6 105.8#





#33

1,2-Dichloroethane-d4

Concen: 49.325 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

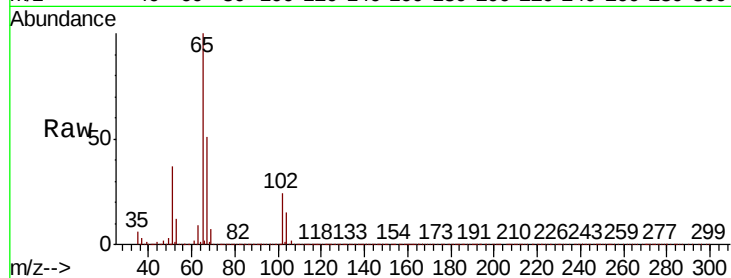
S36-0164

Tot Ion: 65 Resp: 428592

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

150000

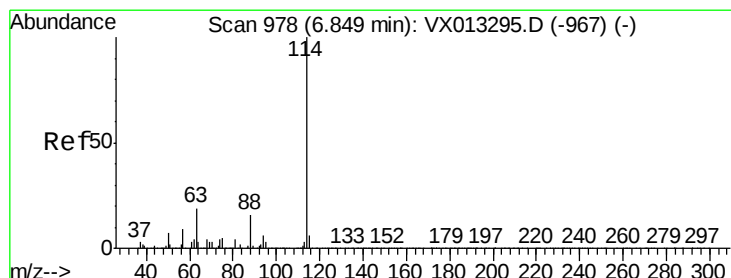
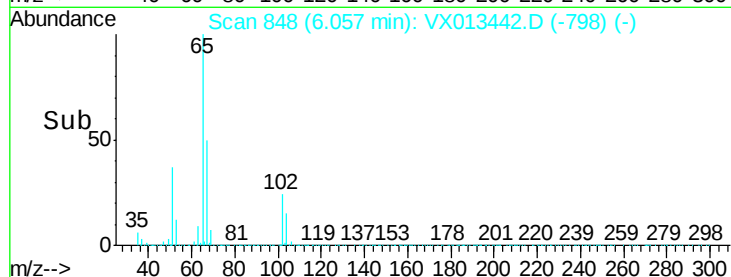
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

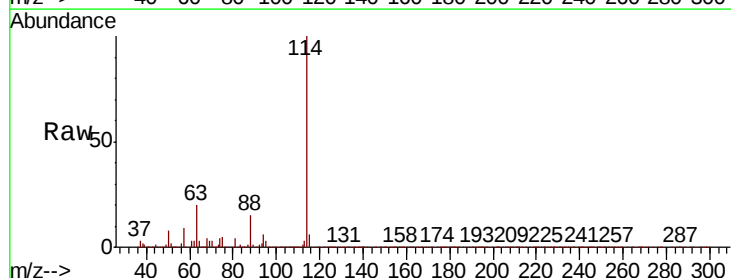
Tgt Ion: 114 Resp: 1186027

Ion Ratio Lower Upper

114 100

63 19.9 0.0 38.4

88 15.1 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

6.85

600000

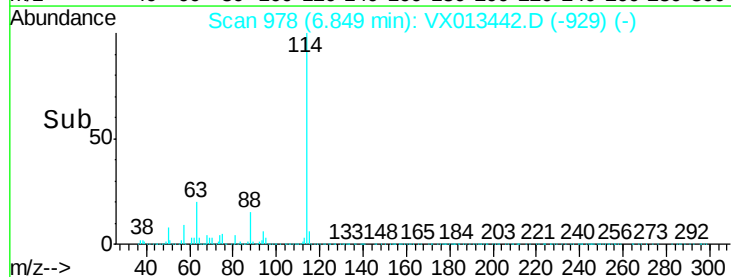
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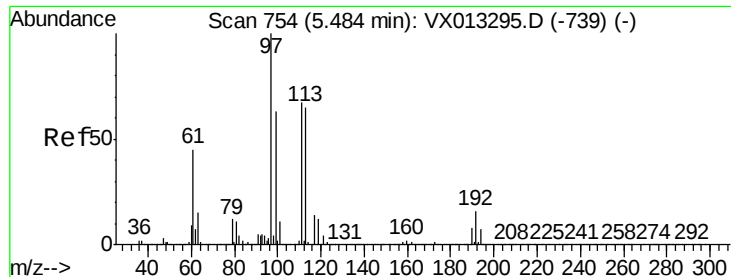
200000

0

Time-->

6.70 6.80 6.90 7.00 7.10

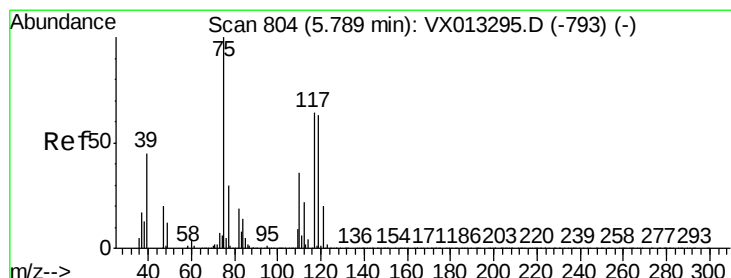
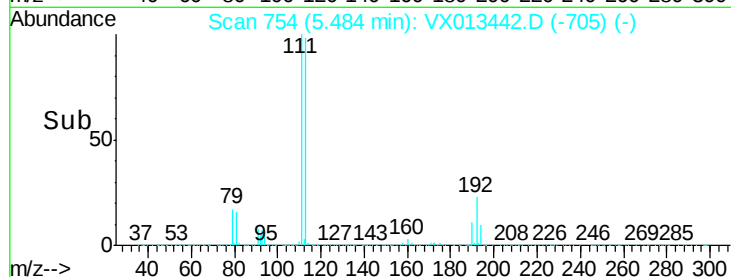
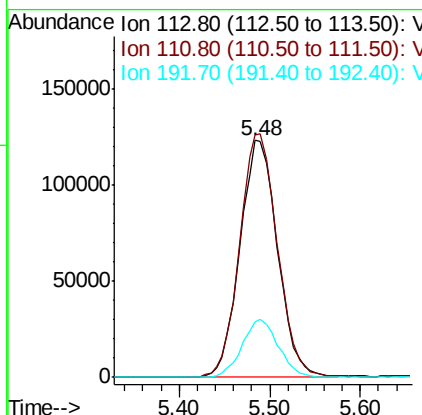
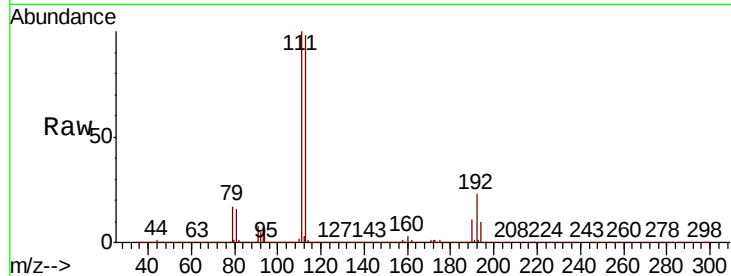




#35
Dibromofluoromethane
Concen: 47.570 ug/l
RT: 5.48 min Scan# 754
Delta R.T. -0.00 min
Lab File: VX013442.D
Acq: 15 Nov 2019 13:39

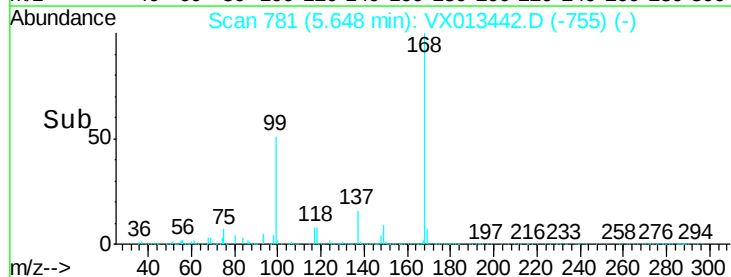
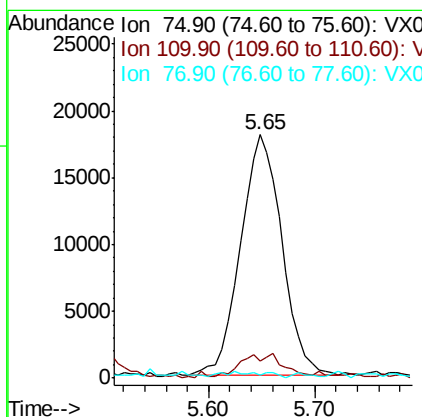
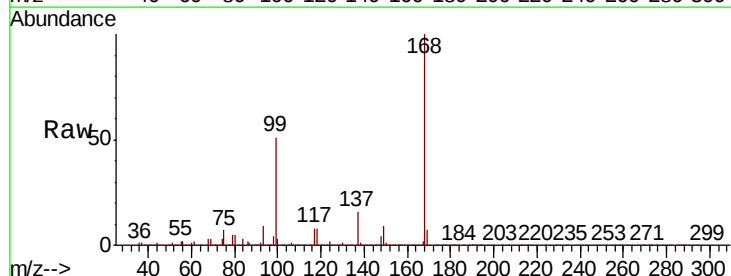
Instrument :
MSVOA_X
ClientSampleId :
S36-0164

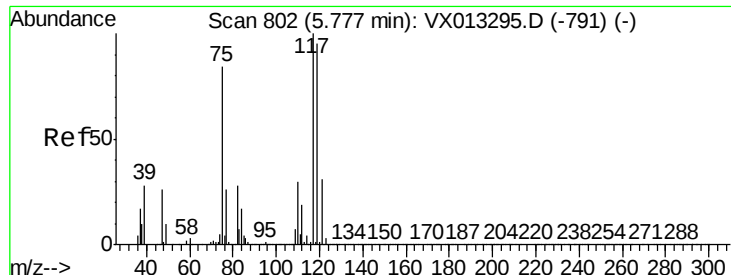
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.9	122.9
192	23.6	19.1	28.7



#36
1,1-Dichloropropene
Concen: 4.822 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.14 min
Lab File: VX013442.D
Acq: 15 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.6	18.1	54.1#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.287 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

S36-0164

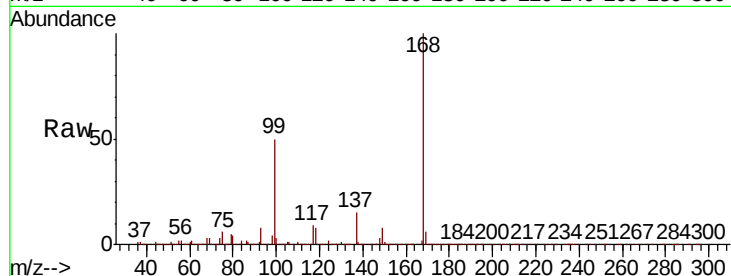
Tot Ion:117 Resp: 62549

Ion Ratio Lower Upper

117 100

119 4.3 76.1 114.1#

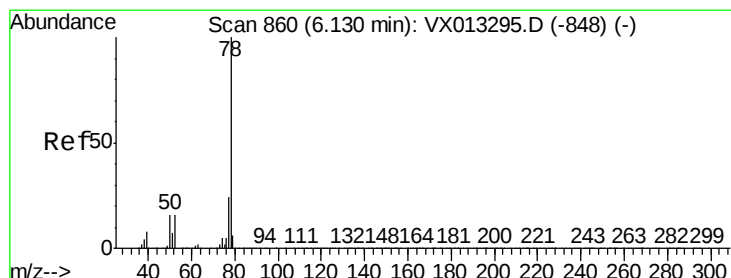
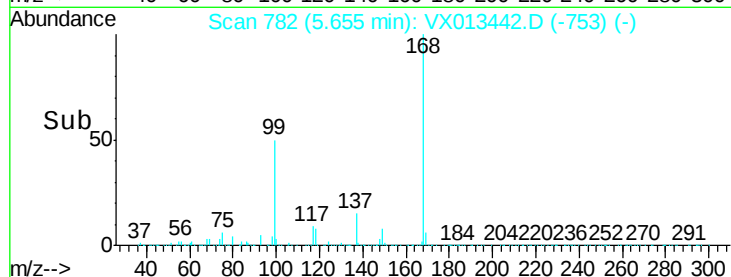
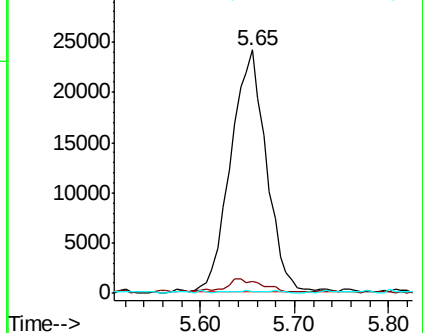
121 0.1 24.6 37.0#



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



#40

Benzene

Concen: 2.863 ug/l

RT: 6.13 min Scan# 860

Delta R.T. -0.00 min

Lab File: VX013442.D

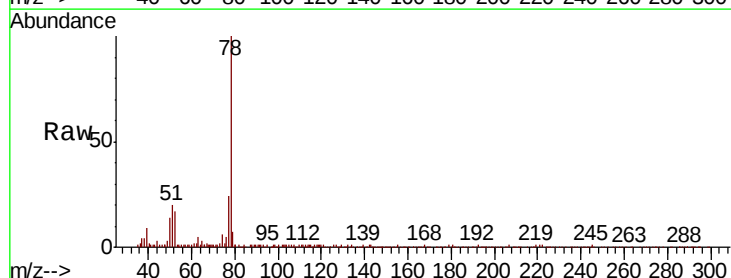
Acq: 15 Nov 2019 13:39

Tgt Ion: 78 Resp: 90743

Ion Ratio Lower Upper

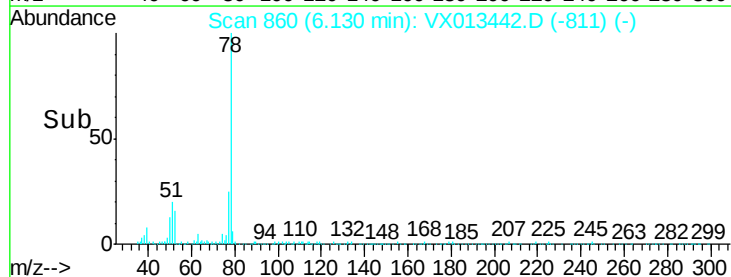
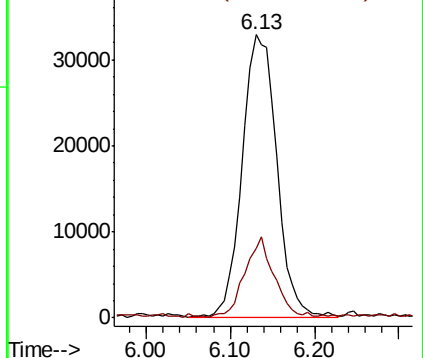
78 100

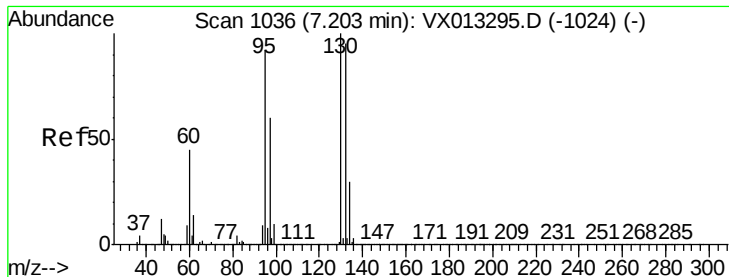
77 23.7 19.5 29.3



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 0.426 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

Instrument :

MSVOA_X

ClientSampled :

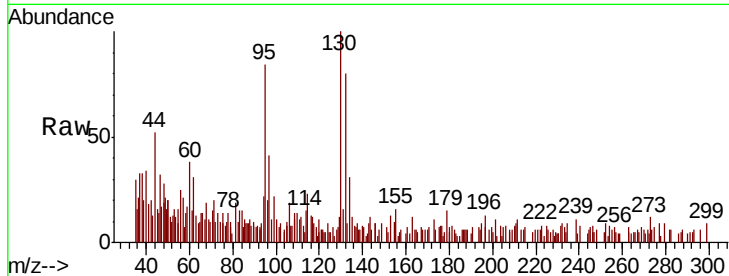
S36-0164

Tot Ion:130 Resp: 3719

Ion Ratio Lower Upper

130 100

95 78.5 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

1500

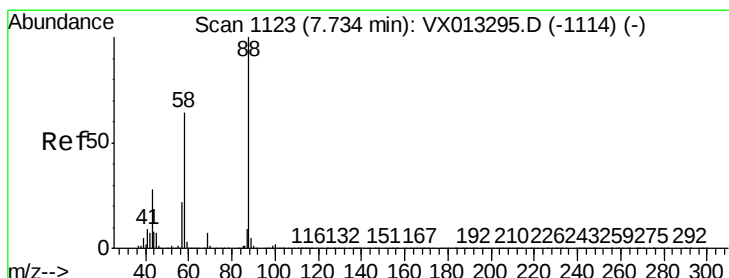
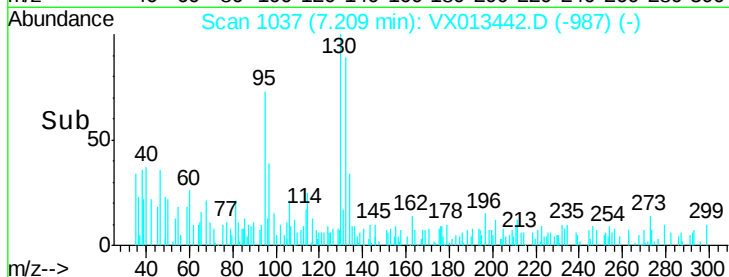
1000

500

0

7.15 7.20 7.25

Time-->



#49

1,4-Dioxane

Concen: 2.100 ug/l

RT: 7.80 min Scan# 1134

Delta R.T. 0.07 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

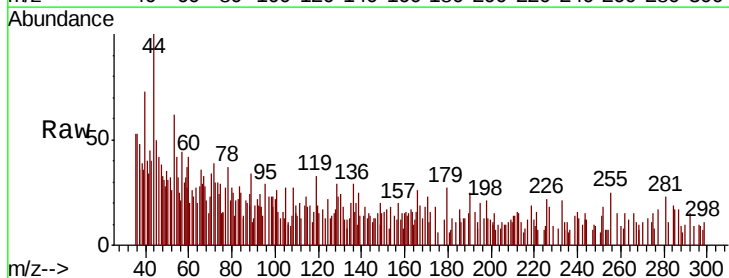
Tgt Ion: 88 Resp: 470

Ion Ratio Lower Upper

88 100

43 27.0 26.6 39.8

58 77.4 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

1000

800

600

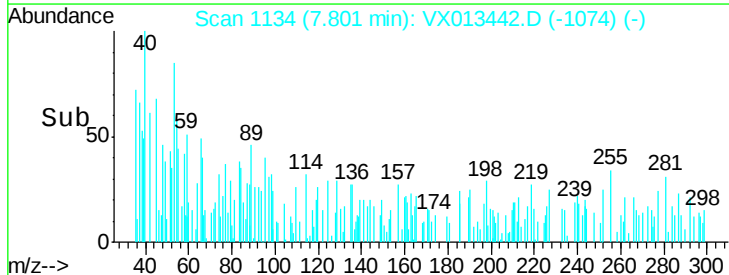
400

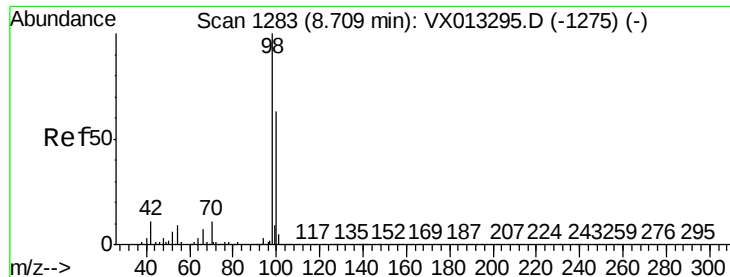
200

0

7.74 7.76 7.78 7.80 7.82

Time-->





#50

Toluene-d8

Concen: 49.666 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

Instrument :

MSVOA_X

ClientSampled :

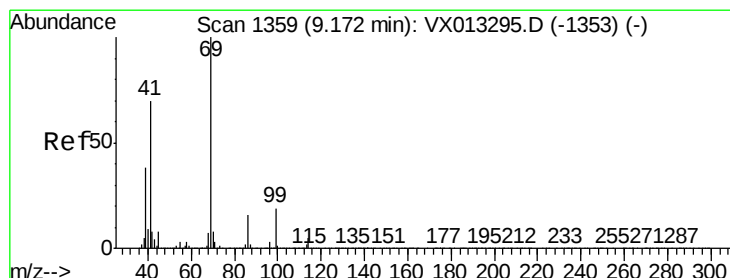
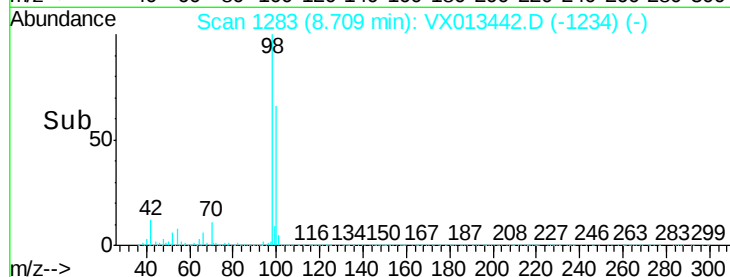
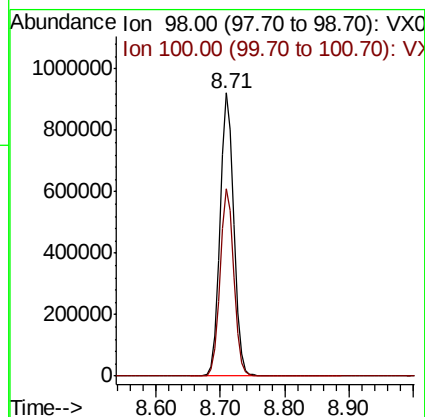
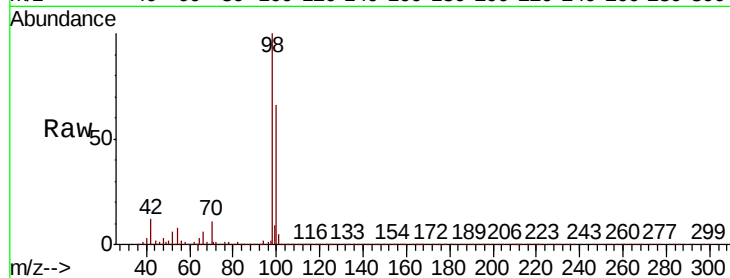
S36-0164

Tot Ion: 98 Resp: 1392827

Ion Ratio Lower Upper

98 100

100 66.2 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.578 ug/l

RT: 9.17 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

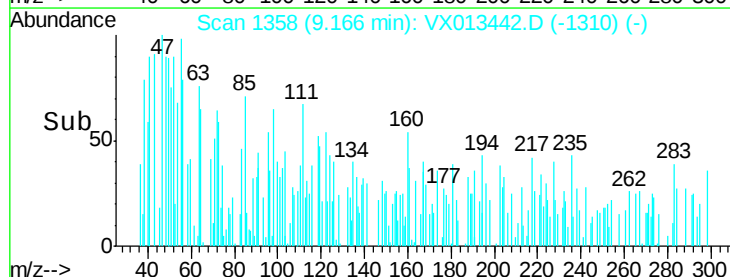
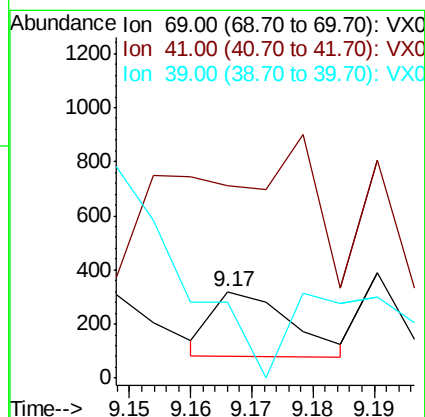
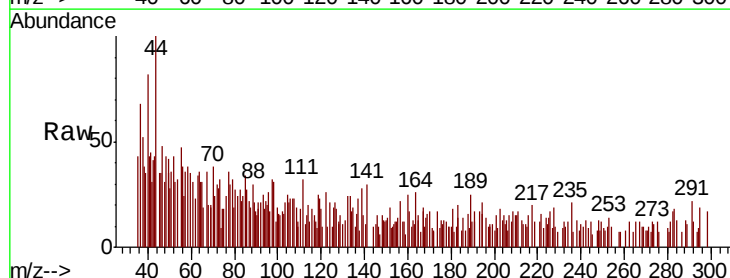
Tgt Ion: 69 Resp: 211

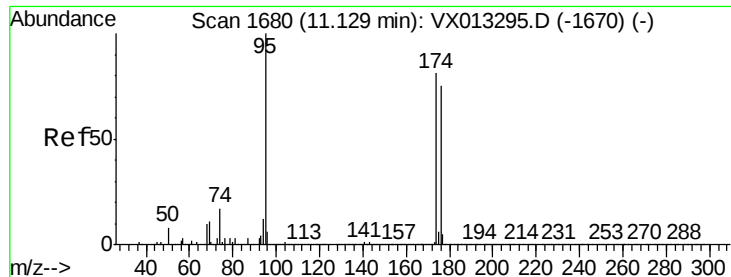
Ion Ratio Lower Upper

69 100

41 0.0 56.2 84.2#

39 0.0 31.1 46.7#





#62

4-Bromofluorobenzene

Concen: 46.085 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

S36-0164

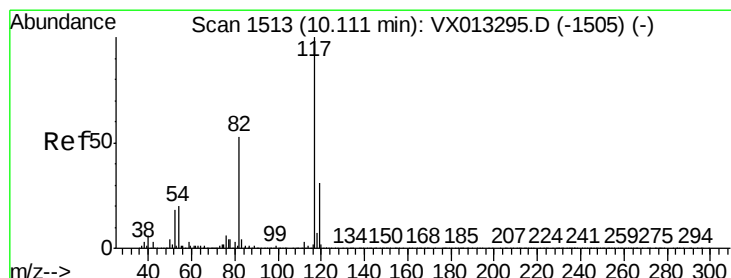
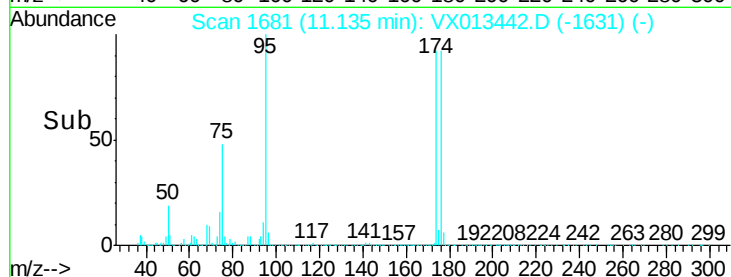
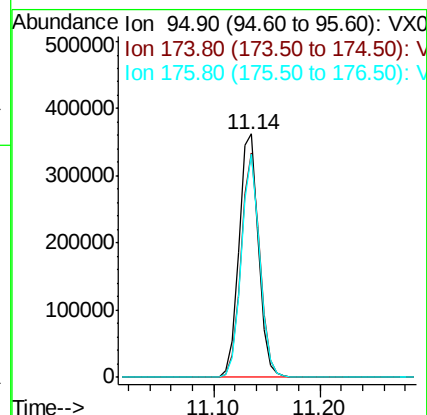
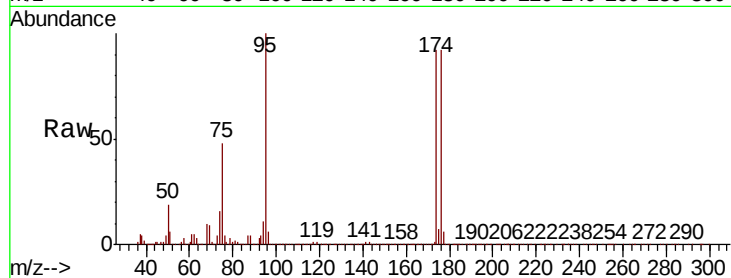
Tot Ion: 95 Resp: 466434

Ion Ratio Lower Upper

95 100

174 88.3 0.0 179.8

176 86.6 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: VX013442.D

Acq: 15 Nov 2019 13:39

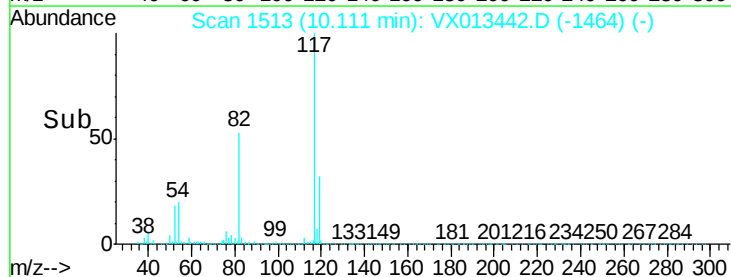
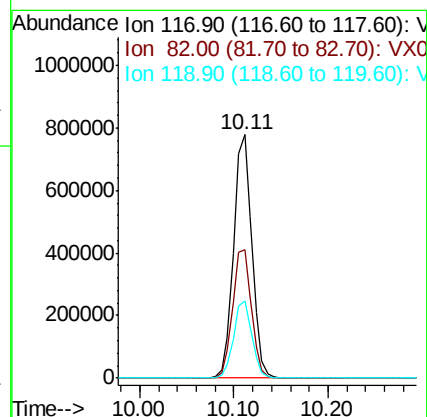
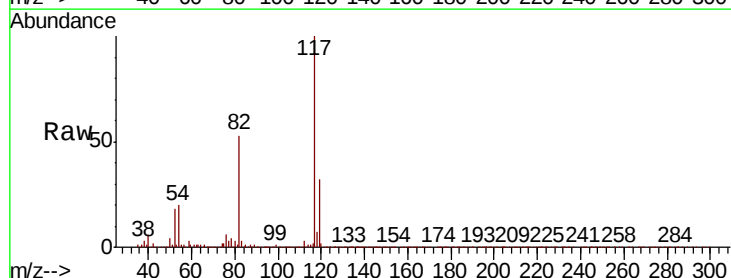
Tgt Ion: 117 Resp: 1046763

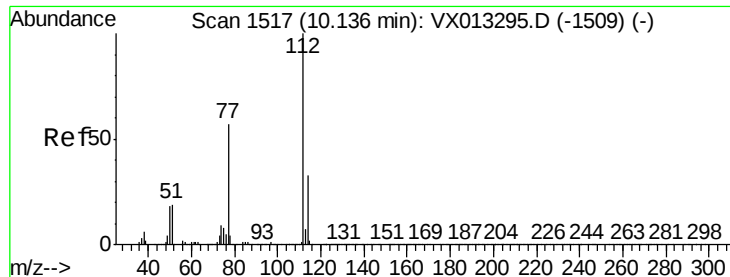
Ion Ratio Lower Upper

117 100

82 52.6 42.6 64.0

119 31.6 24.8 37.2

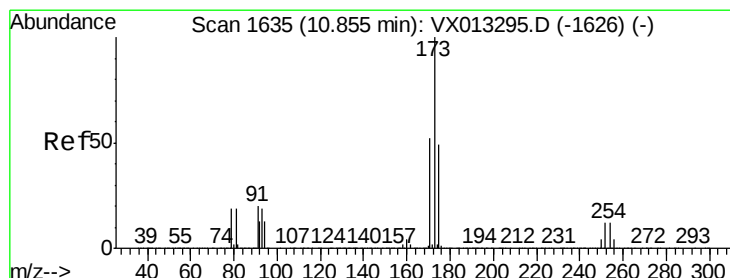
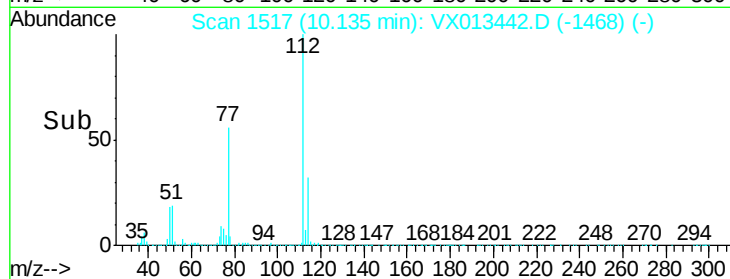
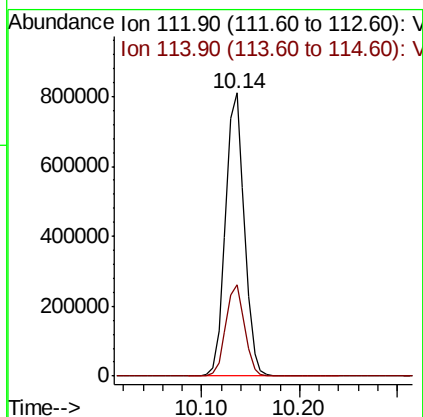
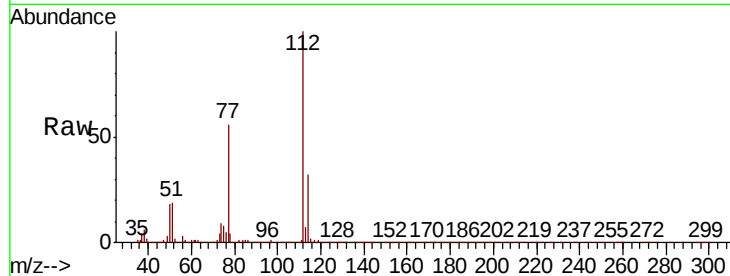




#65
Chlorobenzene
Concen: 51.265 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VX013442.D
Acq: 15 Nov 2019 13:39

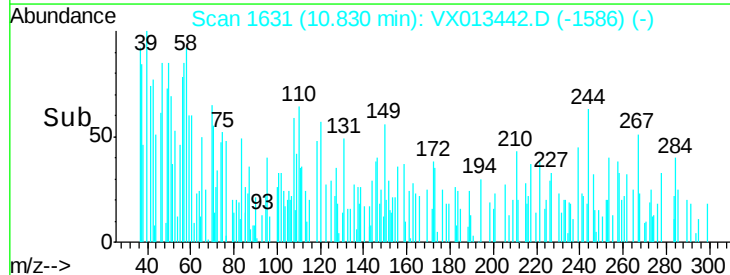
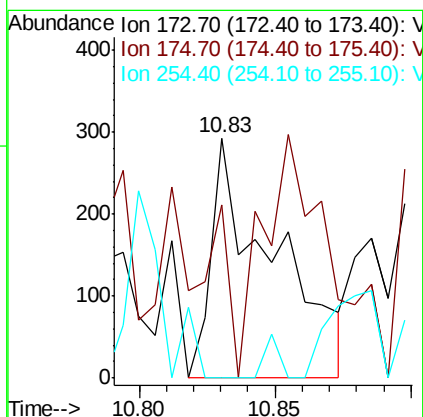
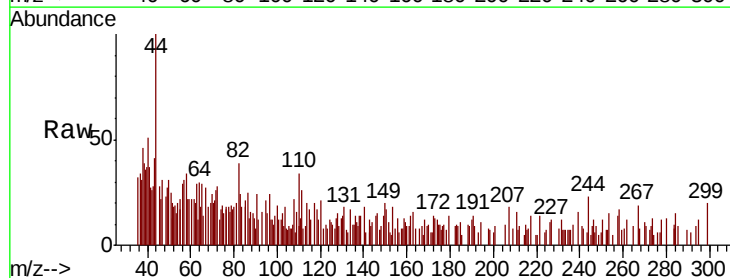
Instrument :
MSVOA_X
ClientSampled :
S36-0164

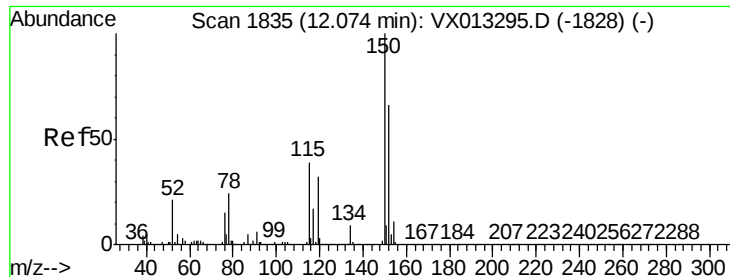
Tot Ion:112 Resp: 1086429
Ion Ratio Lower Upper
112 100
114 32.4 26.4 39.6



#71
Bromoform
Concen: 3.263 ug/l
RT: 10.83 min Scan# 1631
Delta R.T. -0.02 min
Lab File: VX013442.D
Acq: 15 Nov 2019 13:39

Tgt Ion:173 Resp: 464
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.4#
254 4.3 0.2 0.2#



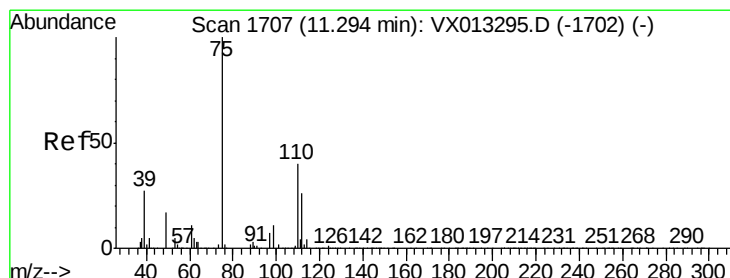
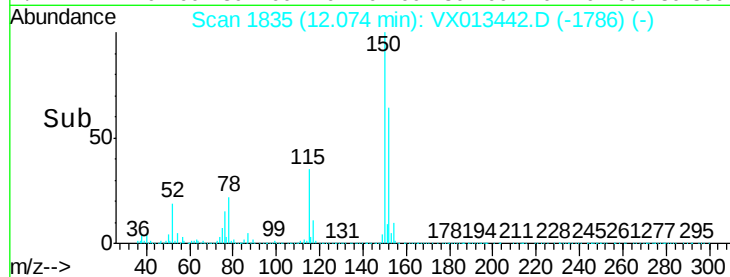
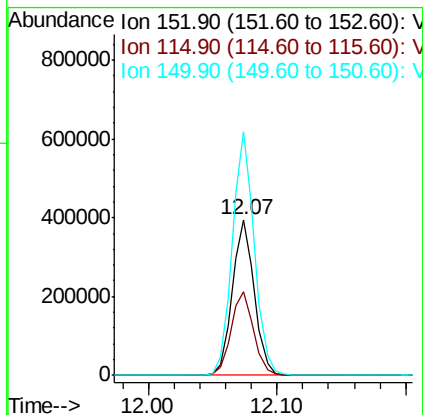
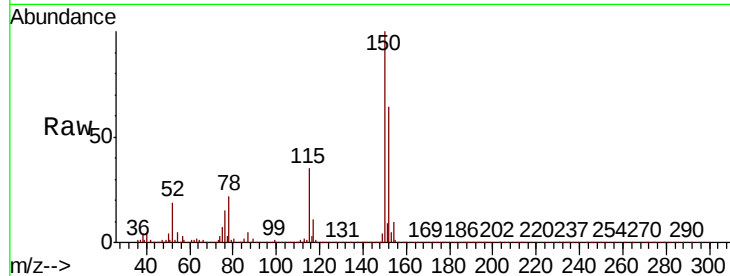


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013442.D
Acq: 15 Nov 2019 13:39

Instrument :
MSVOA_X
ClientSampled :
S36-0164

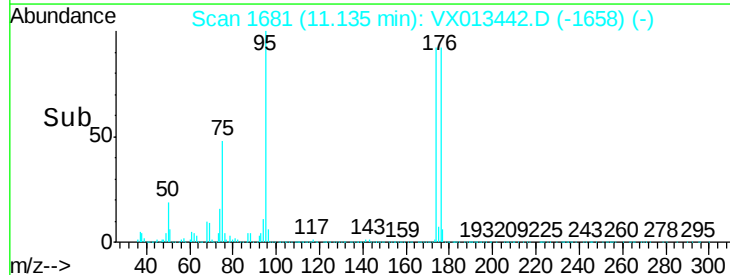
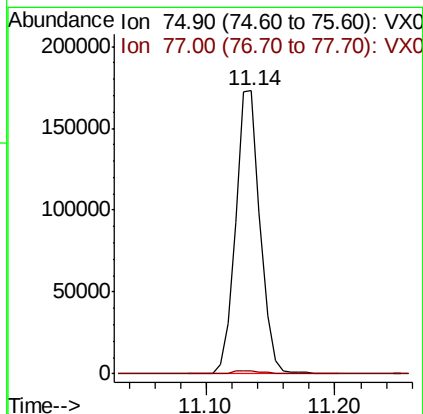
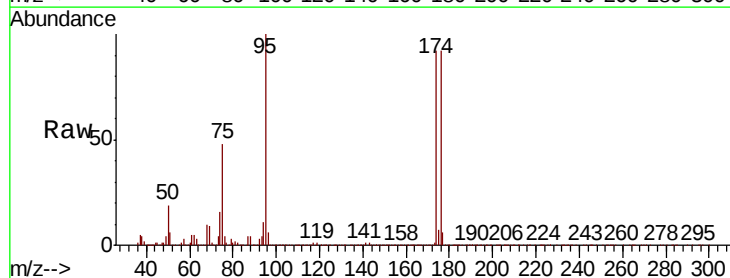
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.2	39.5	118.3
150	156.6	0.0	344.4

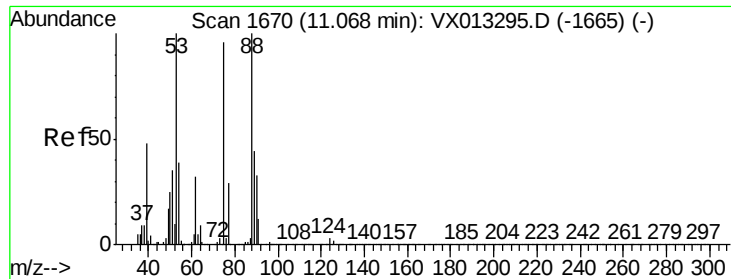


#76

1,2,3-Trichloropropane
Concen: 23.901 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.16 min
Lab File: VX013442.D
Acq: 15 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	22.3	66.8#

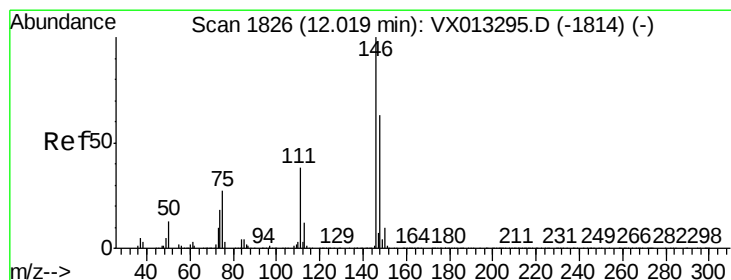
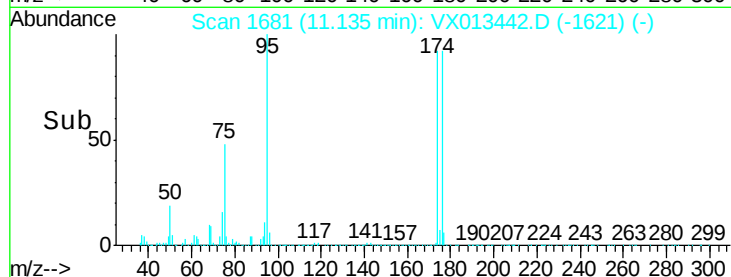
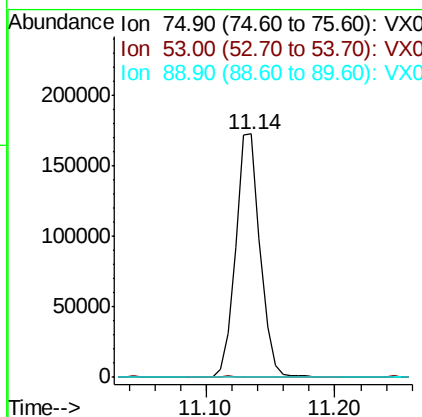
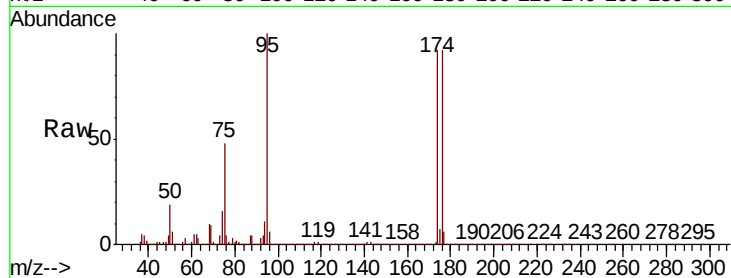




#81
trans-1,4-Dichloro-2-butene
Concen: 61.520 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.07 min
Lab File: VX013442.D
Acq: 15 Nov 2019 13:39

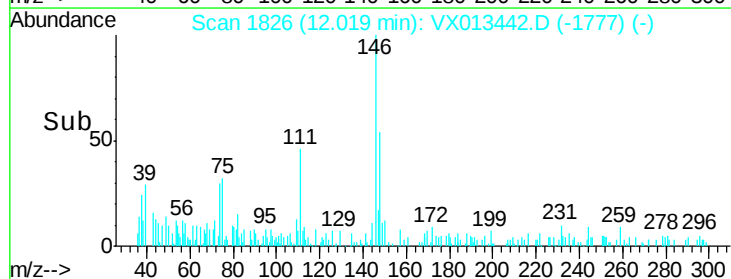
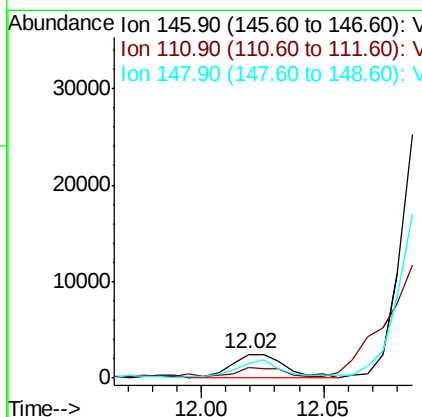
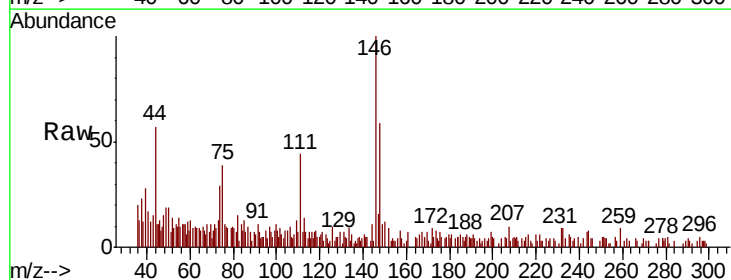
Instrument :
MSVOA_X
ClientSampleId :
S36-0164

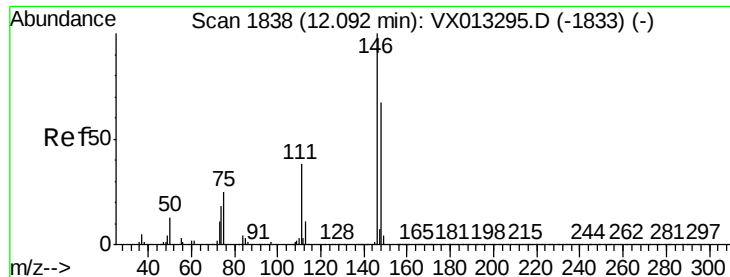
Tot Ion: 75 Resp: 227750
Ion Ratio Lower Upper
75 100
53 0.0 81.0 121.6#
89 0.1 36.0 54.0#



#87
1,3-Dichlorobenzene
Concen: 0.261 ug/l
RT: 12.02 min Scan# 1826
Delta R.T. -0.00 min
Lab File: VX013442.D
Acq: 15 Nov 2019 13:39

Tgt Ion: 146 Resp: 3857
Ion Ratio Lower Upper
146 100
111 26.1 18.9 56.5
148 56.8 31.9 95.7





#88

1,4-Dichlorobenzene

Concen: 2.891 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

S36-0164

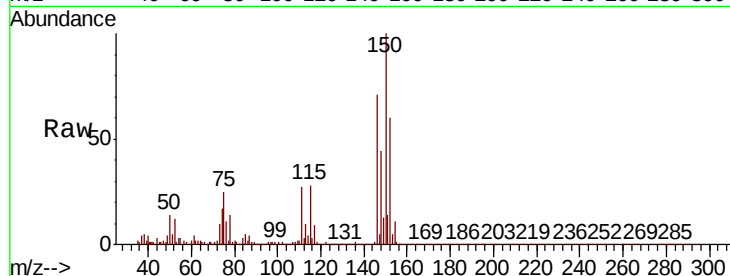
Tot Ion:146 Resp: 43532

Ion Ratio Lower Upper

146 100

111 48.8 18.8 56.4

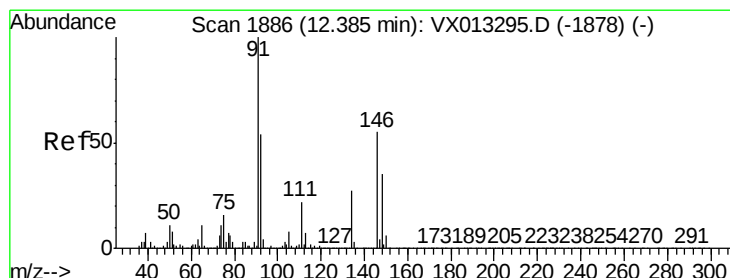
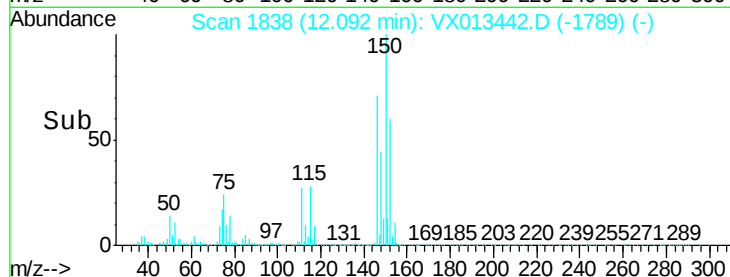
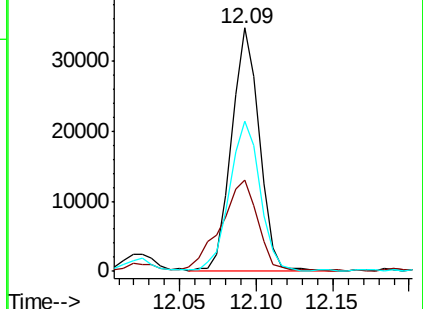
148 67.8 32.4 97.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 0.218 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX013442.D

Acq: 15 Nov 2019 13:39

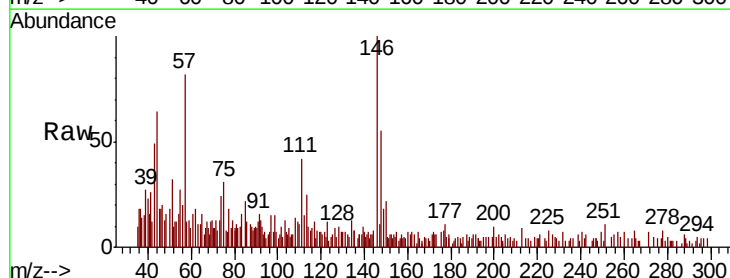
Tgt Ion:146 Resp: 3221

Ion Ratio Lower Upper

146 100

111 56.6 20.1 60.2

148 72.7 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

