

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\
 Data File : VX005566.D
 Acq On : 25 Oct 2018 03:11
 Operator : JC/MD
 Sample : J5200-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OR-02-102318-A

Quant Time: Oct 25 05:57:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 13:13:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	202251	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	306673	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	285901	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132830	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	133083	53.90	ug/l	0.00
Spiked Amount			Recovery	=	107.80%	
35) Dibromofluoromethane	5.50	113	101349	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
50) Toluene-d8	8.71	98	379194	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
62) 4-Bromofluorobenzene	11.14	95	123546	43.85	ug/l	0.00
Spiked Amount			Recovery	=	87.70%	

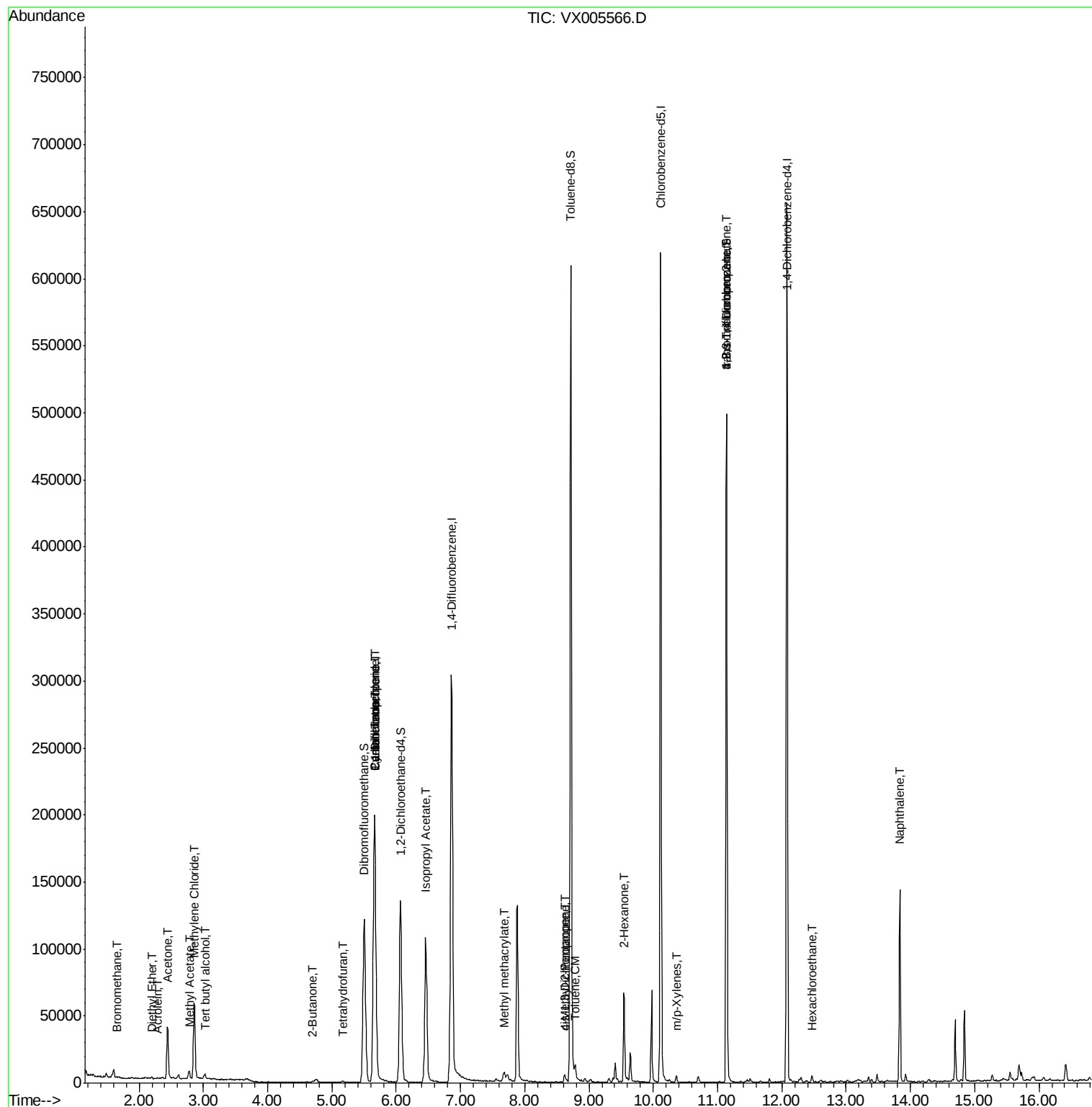
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	345	0.222	ug/l	93
8) Diethyl Ether	2.19	74	346	0.250	ug/l	90
11) Tert butyl alcohol	3.02	59	2273	3.421	ug/l #	77
13) Acrolein	2.29	56	131	0.387	ug/l #	1
16) Acetone	2.44	43	41335	31.685	ug/l	94
18) Methyl Acetate	2.78	43	7338	0.840	ug/l	96
20) Methylene Chloride	2.85	84	25055	11.467	ug/l	95
25) 2-Butanone	4.70	43	1975	0.994	ug/l	93
29) Tetrahydrofuran	5.17	42	1134	0.877	ug/l #	43
31) Cyclohexane	5.66	56	4006	1.204	ug/l #	16
36) 1,1-Dichloropropene	5.67	75	14540	4.886	ug/l #	50
38) Carbon Tetrachloride	5.67	117	18564	5.922	ug/l #	16
43) Isopropyl Acetate	6.46	43	138665	24.366	ug/l	93
48) Methyl methacrylate	7.68	41	5416	1.954	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	1825	0.477	ug/l #	50
52) Toluene	8.79	92	2131	0.411	ug/l	99
54) cis-1,3-Dichloropropene	8.62	75	726	0.217	ug/l #	73
59) 2-Hexanone	9.54	43	8180	2.713	ug/l #	54
68) m/p-Xylenes	10.36	106	1090	0.280	ug/l	88
76) 1,2,3-Trichloropropane	11.14	75	62920	23.256	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	62920	73.052	ug/l #	10
90) Hexachloroethane	12.47	117	272	0.214	ug/l #	3
95) Naphthalene	13.83	128	87653	9.662	ug/l	98

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

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QLast Update : Wed Oct 24 13:13:34 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

Instrument :

MSVOA_X

ClientSampleId :

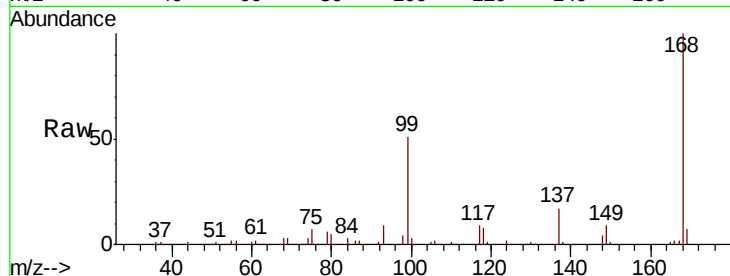
OR-02-102318-A

Tot Ion:168 Resp: 202251

Ion Ratio Lower Upper

168 100

99 51.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

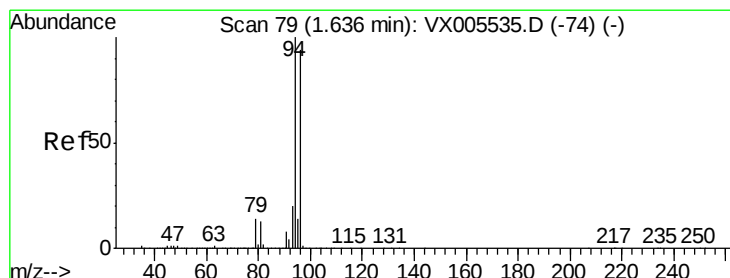
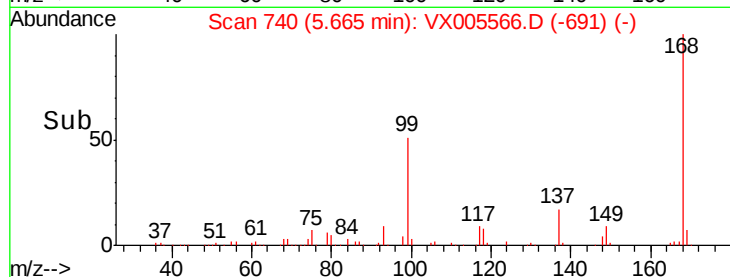
40000

20000

0

5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.222 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005566.D

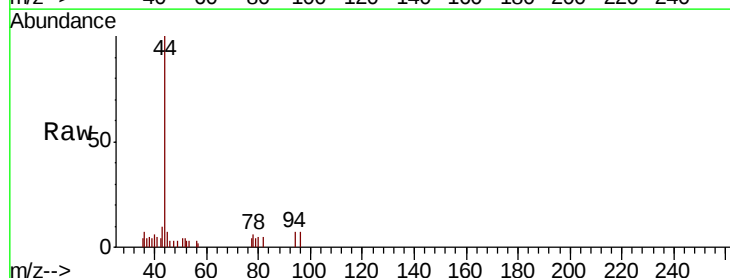
Acq: 25 Oct 2018 03:11

Tgt Ion: 94 Resp: 345

Ion Ratio Lower Upper

94 100

96 99.4 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

150

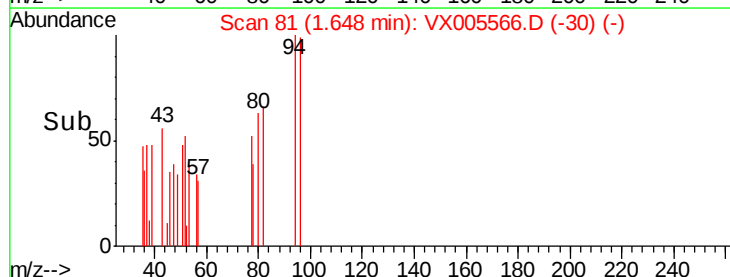
100

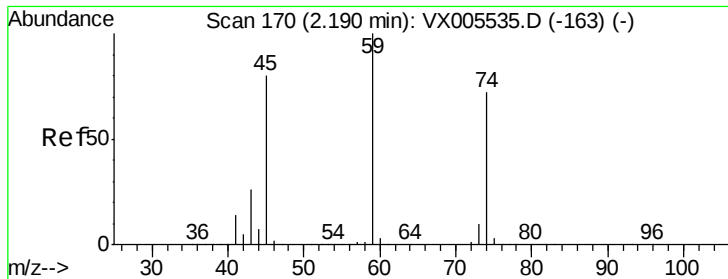
50

0

1.60 1.65 1.70

Time-->





#8

Diethyl Ether

Concen: 0.250 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

Instrument :

MSVOA_X

ClientSampleId :

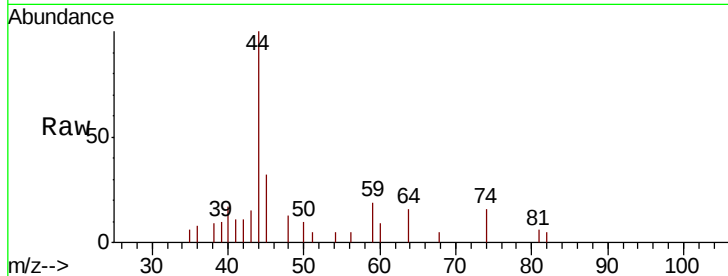
OR-02-102318-A

Tot Ion: 74 Resp: 346

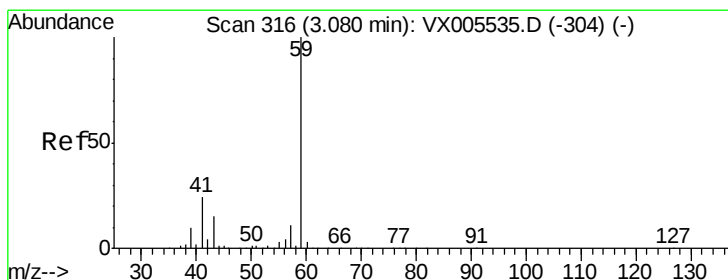
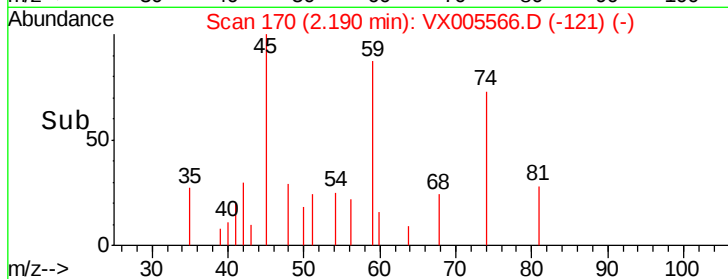
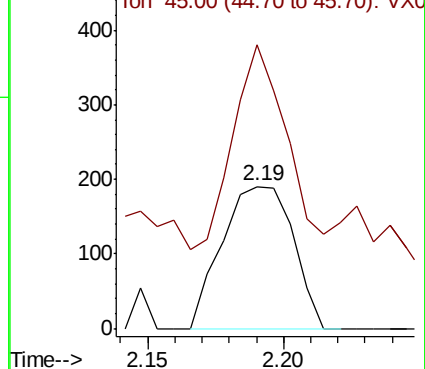
Ion Ratio Lower Upper

74 100

45 106.4 48.3 144.8



Abundance Ion 74.00 (73.70 to 74.70): VX0



#11

Tert butyl alcohol

Concen: 3.421 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005566.D

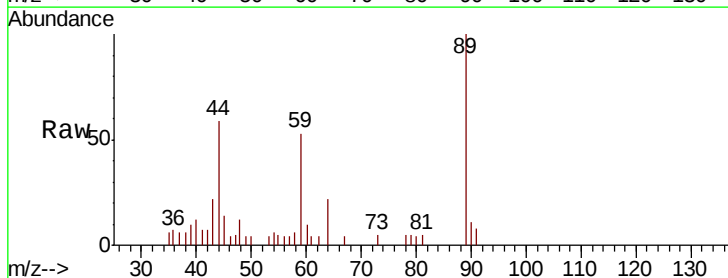
Acq: 25 Oct 2018 03:11

Tgt Ion: 59 Resp: 2273

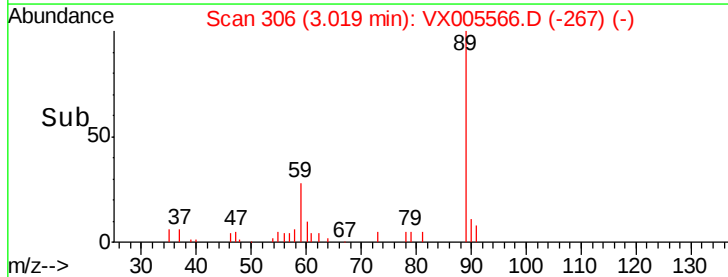
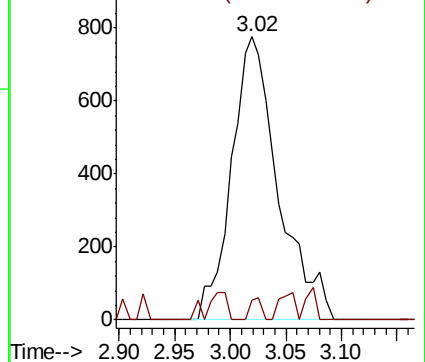
Ion Ratio Lower Upper

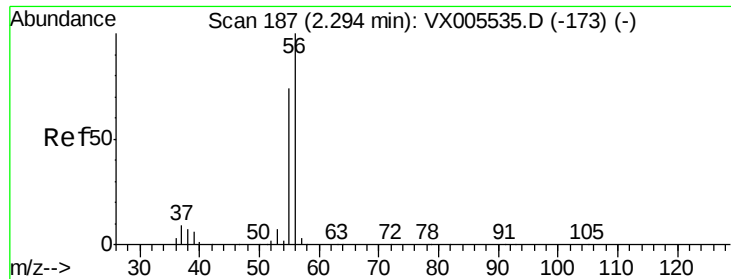
59 100

57 1.9 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0





#13

Acrolein

Concen: 0.387 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

Instrument :

MSVOA_X

ClientSampleId :

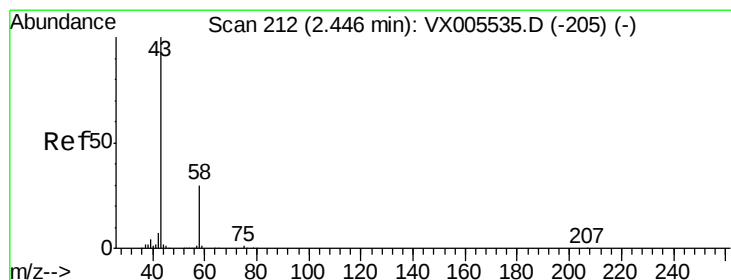
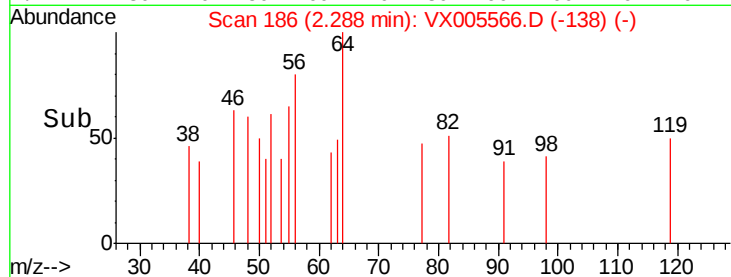
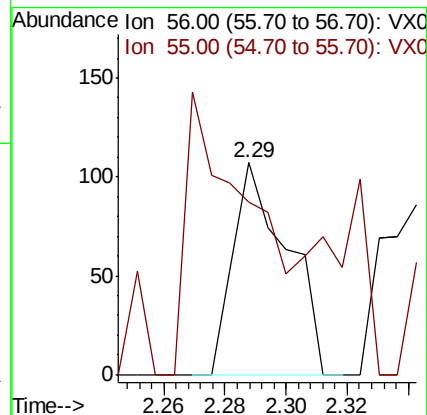
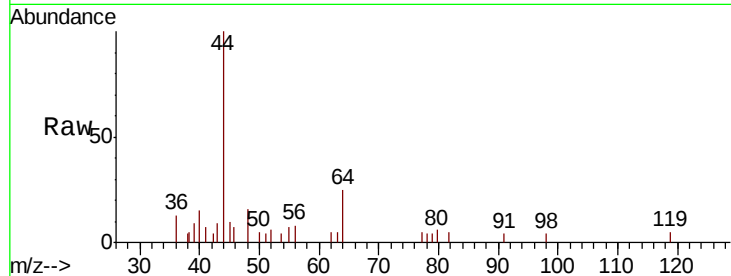
OR-02-102318-A

Tot Ion: 56 Resp: 131

Ion Ratio Lower Upper

56 100

55 173.3 54.7 82.1#



#16

Acetone

Concen: 31.685 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005566.D

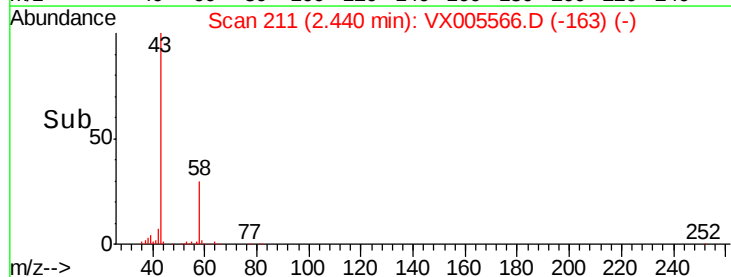
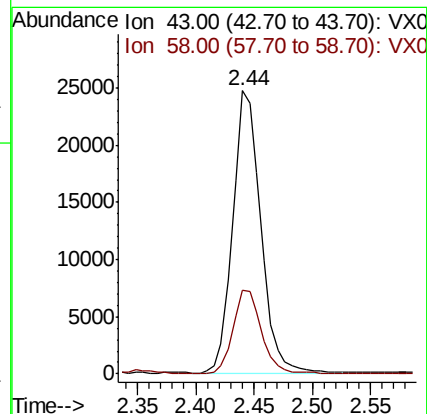
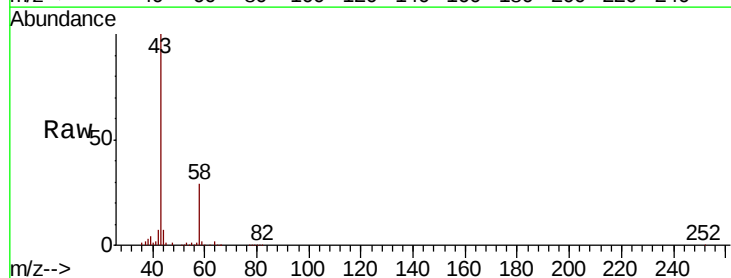
Acq: 25 Oct 2018 03:11

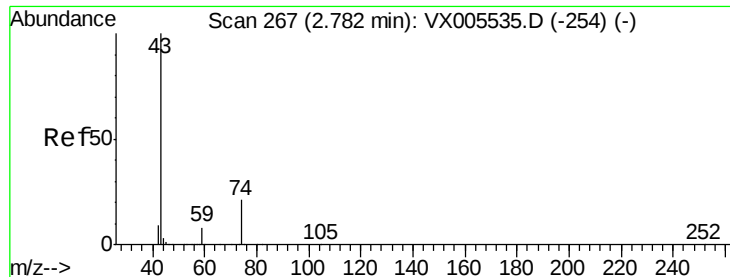
Tgt Ion: 43 Resp: 41335

Ion Ratio Lower Upper

43 100

58 29.5 26.2 39.4

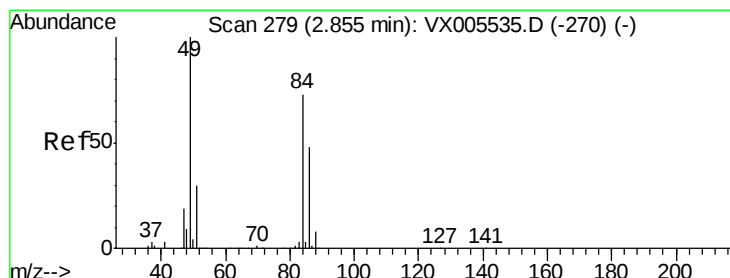
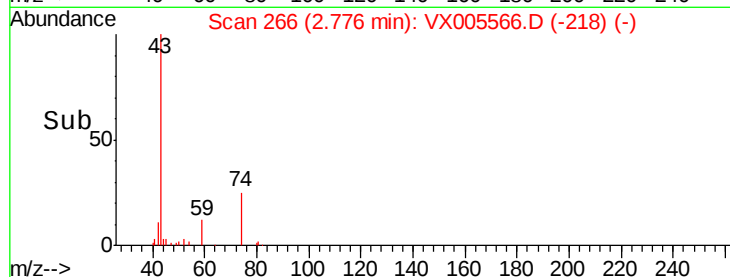
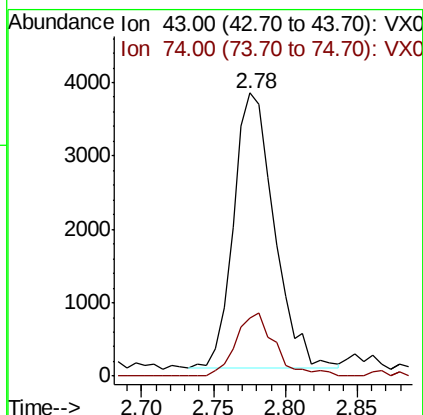
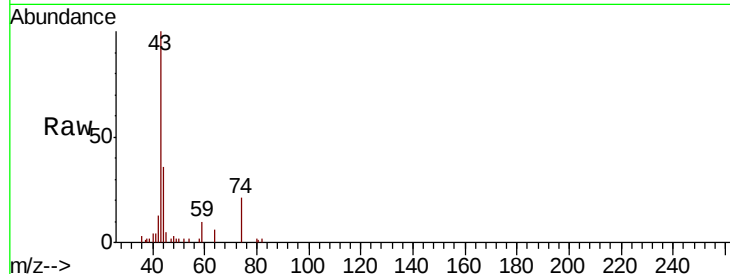




#18
Methyl Acetate
Concen: 0.840 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005566.D
Acq: 25 Oct 2018 03:11

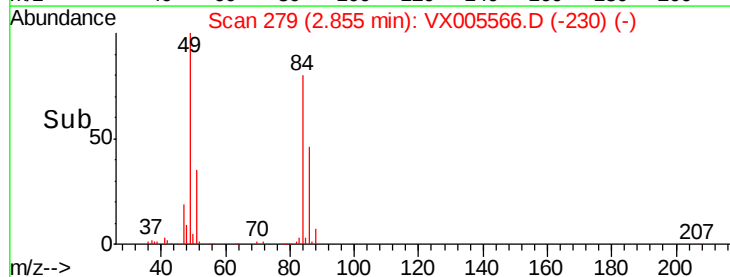
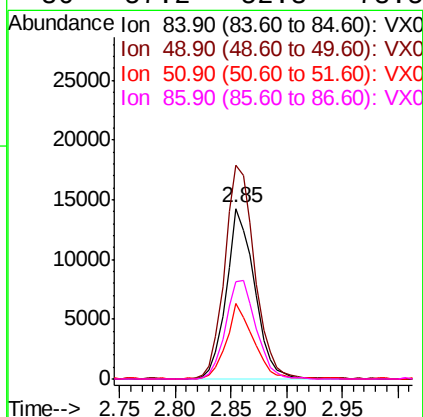
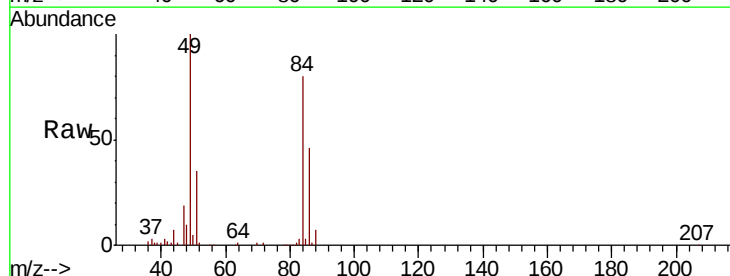
Instrument :
MSVOA_X
ClientSampleId :
OR-02-102318-A

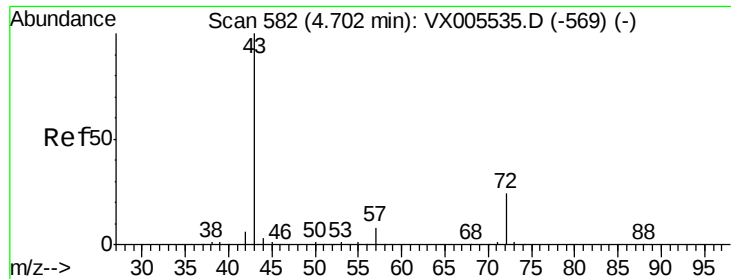
Tot Ion: 43 Resp: 7338
Ion Ratio Lower Upper
43 100
74 22.1 19.4 29.2



#20
Methylene Chloride
Concen: 11.467 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX005566.D
Acq: 25 Oct 2018 03:11

Tgt Ion: 84 Resp: 25055
Ion Ratio Lower Upper
84 100
49 125.4 101.2 151.8
51 43.7 29.5 44.3
86 57.2 52.3 78.5





#25

2-Butanone

Concen: 0.994 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

Instrument :

MSVOA_X

ClientSampleId :

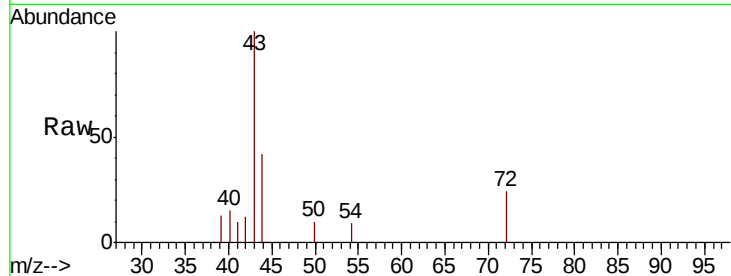
OR-02-102318-A

Tot Ion: 43 Resp: 1975

Ion Ratio Lower Upper

43 100

72 23.7 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

600

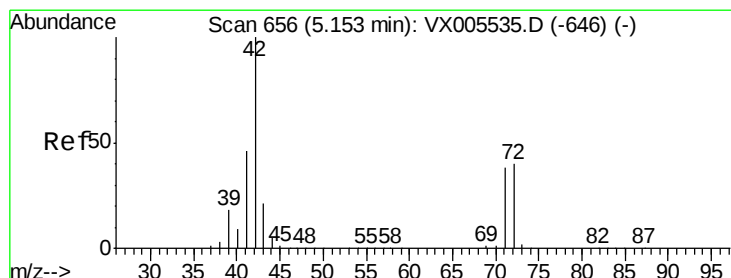
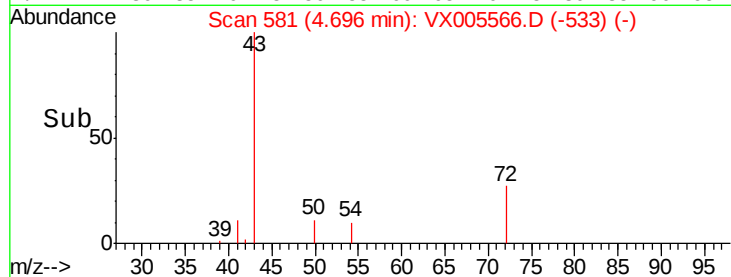
400

200

0

4.60 4.70 4.80

Time-->



#29

Tetrahydrofuran

Concen: 0.877 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

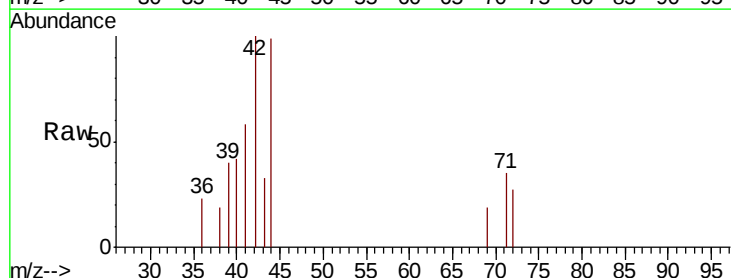
Tgt Ion: 42 Resp: 1134

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

71 16.0 34.5 51.7#



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

400

300

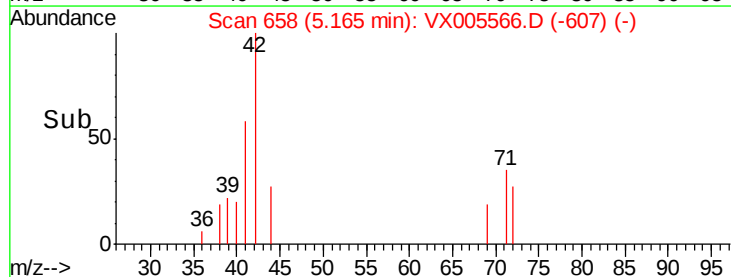
200

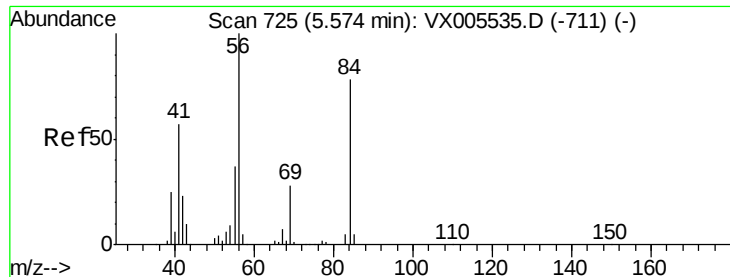
100

0

5.05 5.10 5.15 5.20 5.25

Time-->

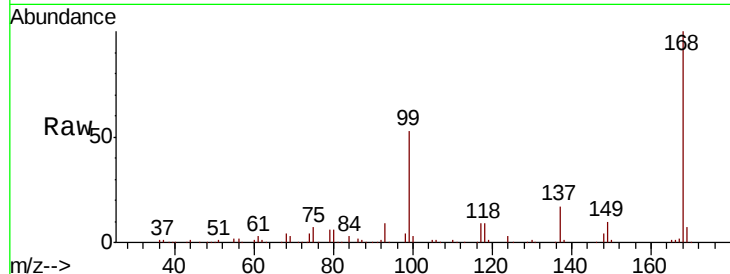




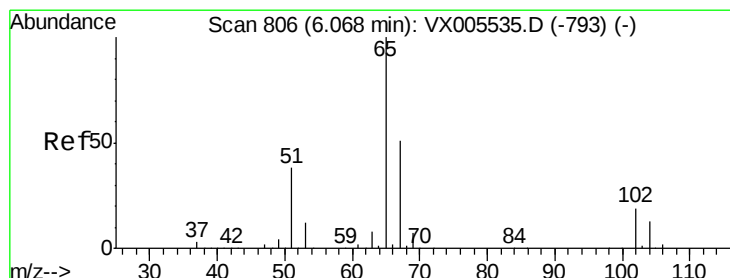
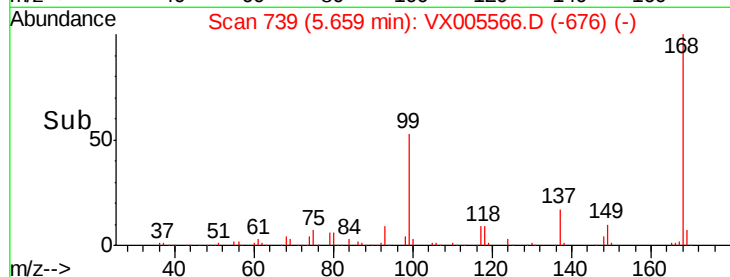
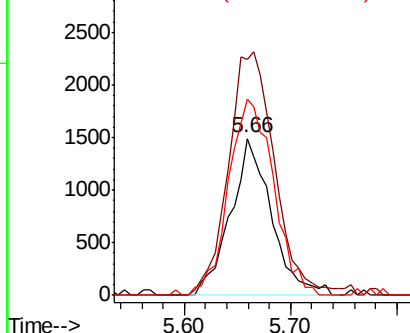
#31
Cyclohexane
Concen: 1.204 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005566.D
Acq: 25 Oct 2018 03:11

Instrument :
MSVOA_X
ClientSampleId :
OR-02-102318-A

Tot Ion: 56 Resp: 4006
Ion Ratio Lower Upper
56 100
69 150.3 25.4 38.2#
84 124.8 71.4 107.2#

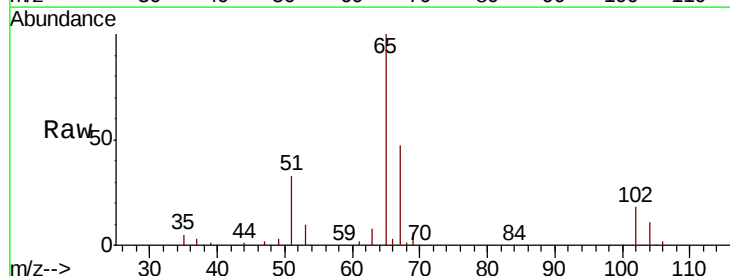


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

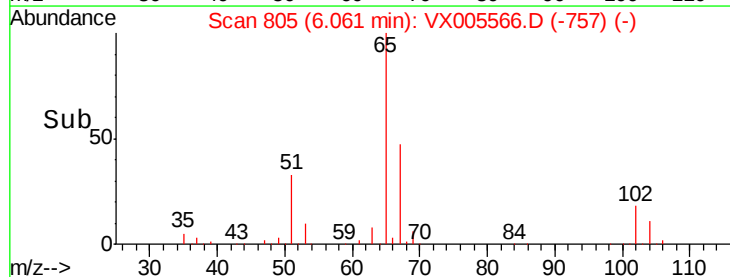
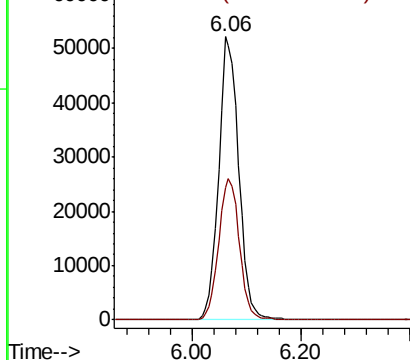


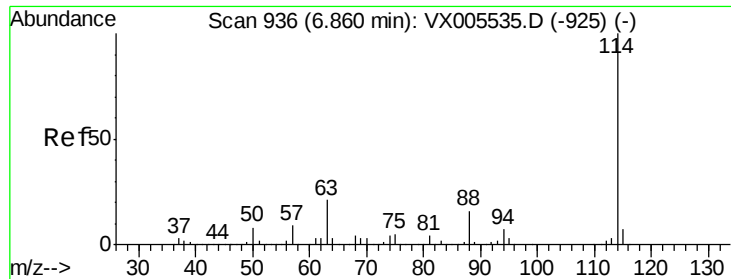
#33
1,2-Dichloroethane-d4
Concen: 53.905 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX005566.D
Acq: 25 Oct 2018 03:11

Tgt Ion: 65 Resp: 133083
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.8



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: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

Instrument :

MSVOA_X

ClientSampleId :

OR-02-102318-A

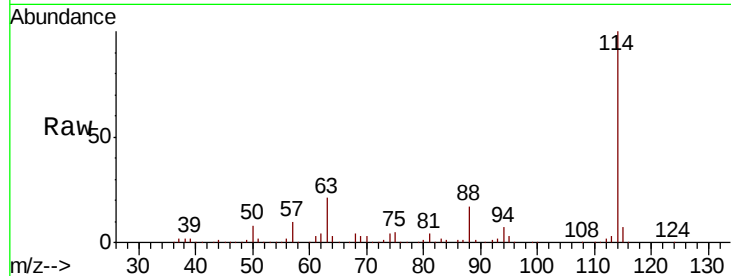
Tot Ion:114 Resp: 306673

Ion Ratio Lower Upper

114 100

63 21.0 0.0 39.0

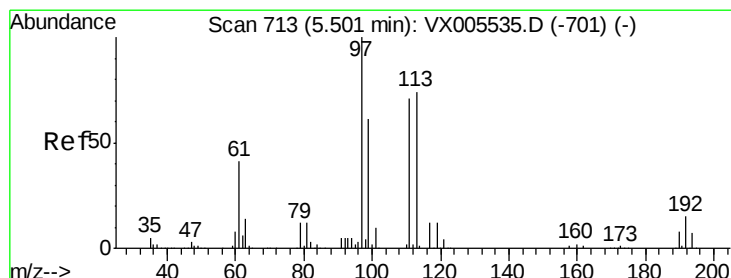
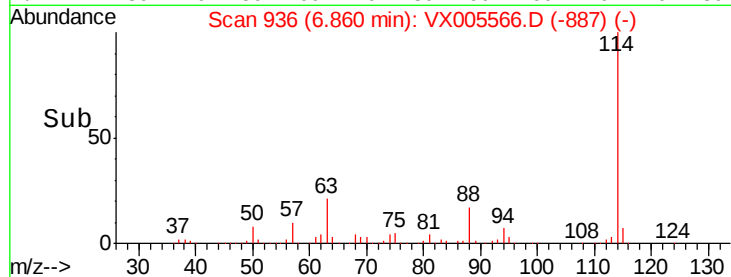
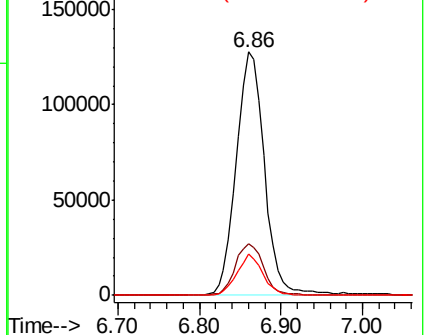
88 17.0 0.0 30.4



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: 48.807 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

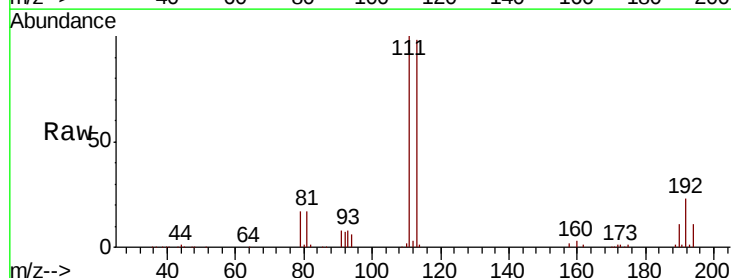
Tgt Ion:113 Resp: 101349

Ion Ratio Lower Upper

113 100

111 102.6 82.4 123.6

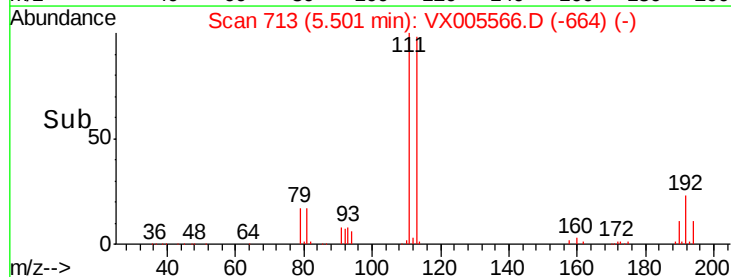
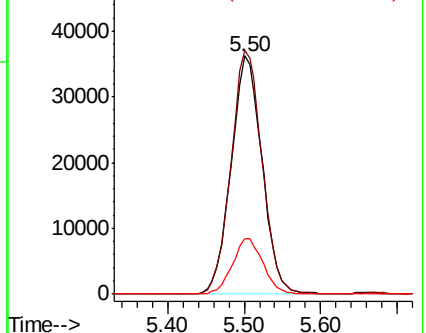
192 23.3 19.4 29.2

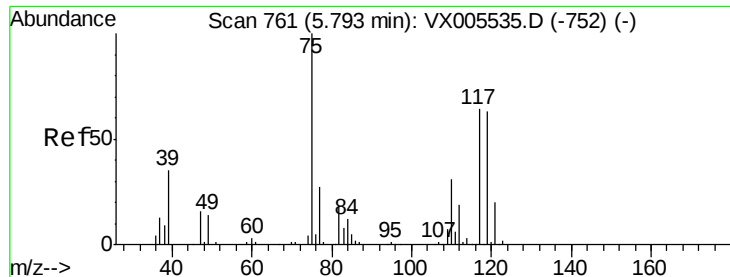


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

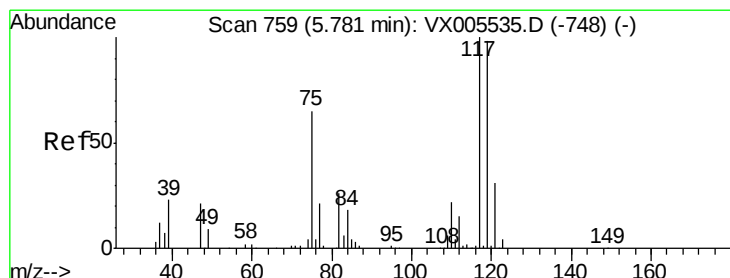
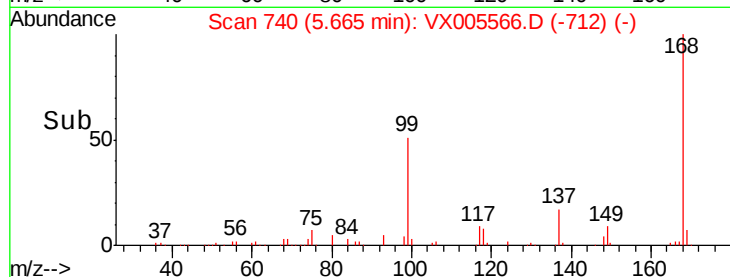
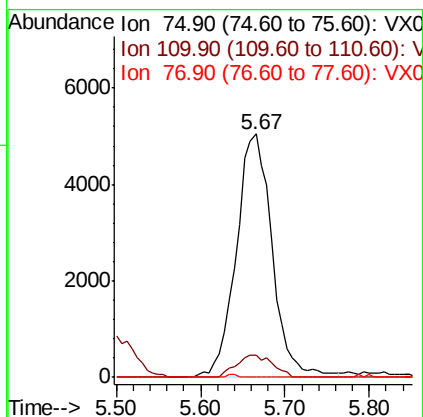
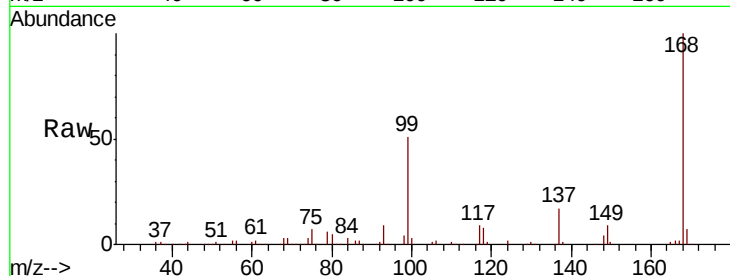




#36
 1,1-Dichloropropene
 Concen: 4.886 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005566.D
 Acq: 25 Oct 2018 03:11

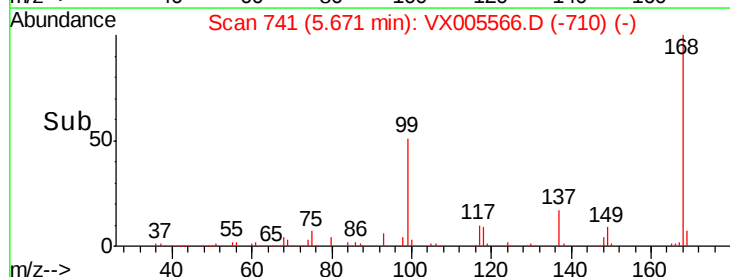
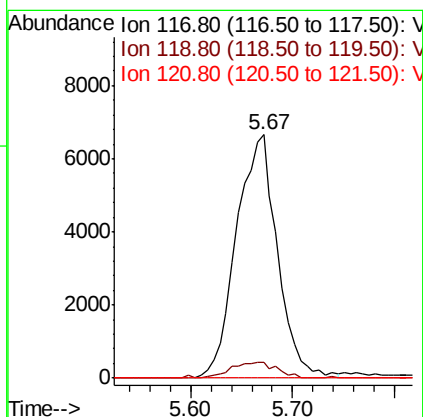
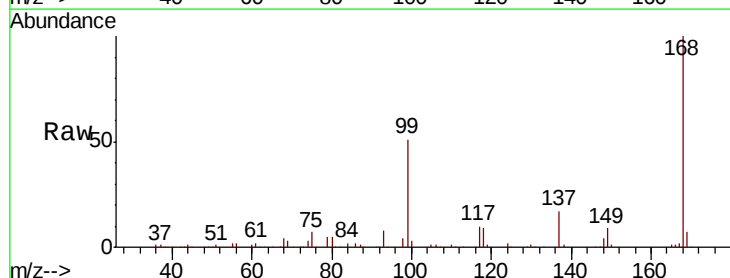
Instrument :
 MSVOA_X
 ClientSampleId :
 OR-02-102318-A

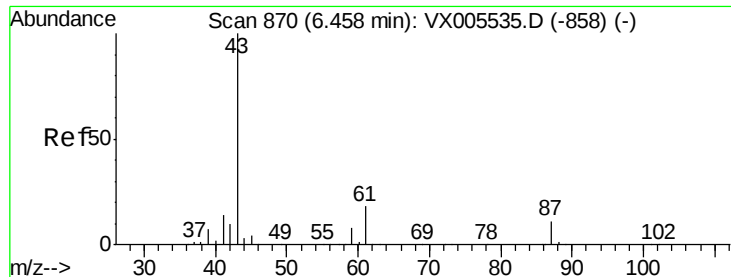
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.0	54.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.922 ug/l
 RT: 5.67 min Scan# 741
 Delta R.T. -0.11 min
 Lab File: VX005566.D
 Acq: 25 Oct 2018 03:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.6	78.8	118.2#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 24.366 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.00 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

Instrument :

MSVOA_X

ClientSampleId :

OR-02-102318-A

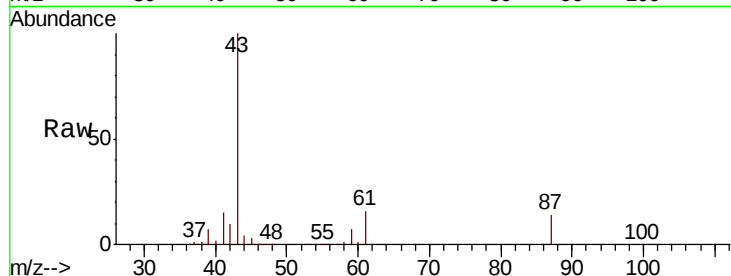
Tot Ion: 43 Resp: 138665

Ion Ratio Lower Upper

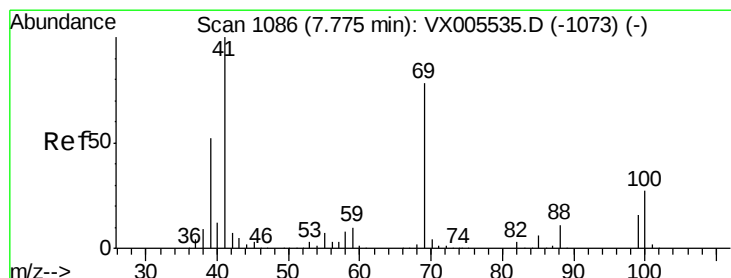
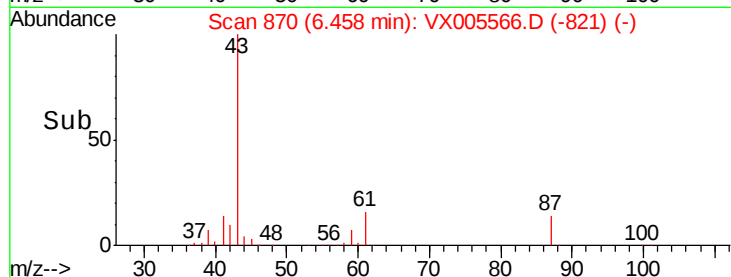
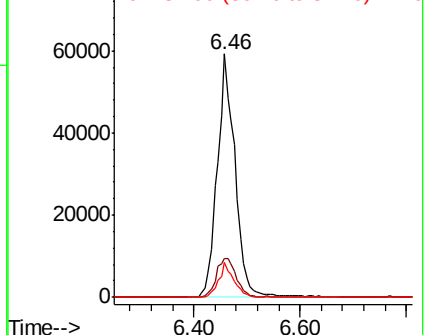
43 100

61 17.9 17.0 25.4

87 11.9 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.954 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

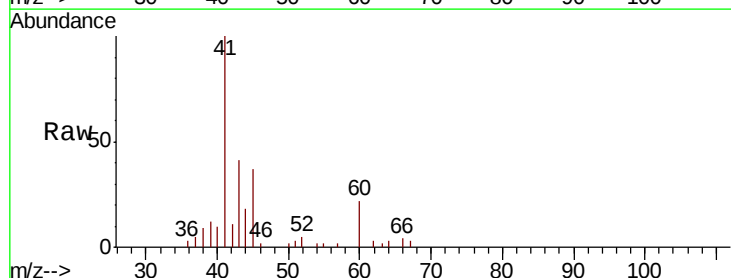
Tgt Ion: 41 Resp: 5416

Ion Ratio Lower Upper

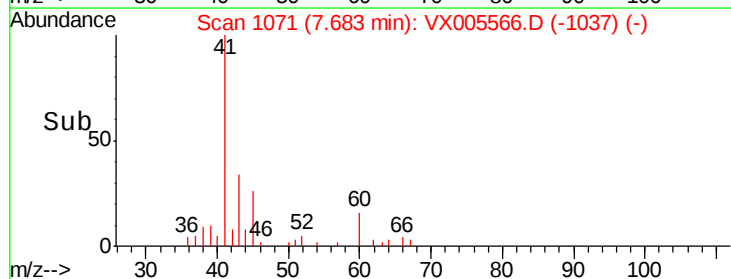
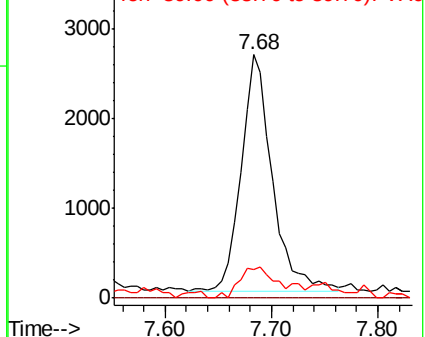
41 100

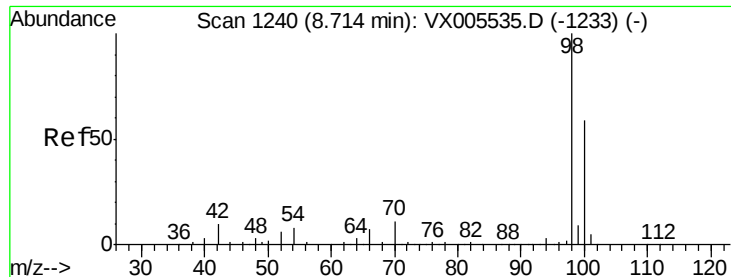
69 0.0 70.2 105.4#

39 14.4 42.7 64.1#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 50.821 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

Instrument :

MSVOA_X

ClientSampleId :

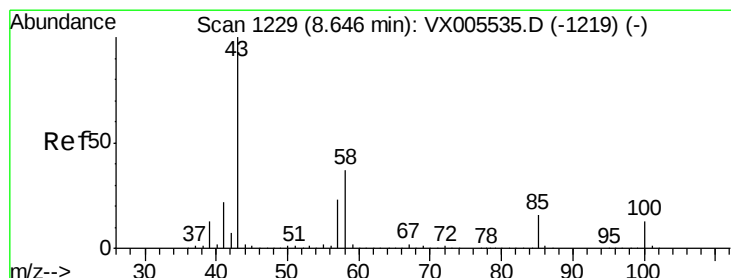
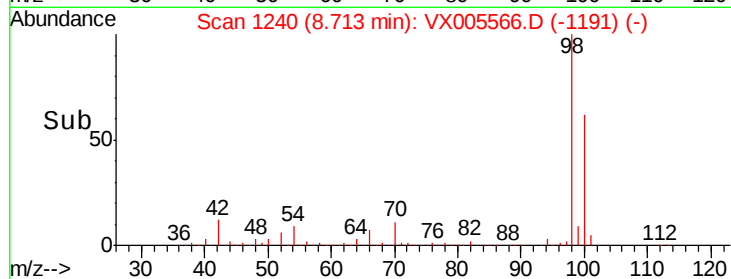
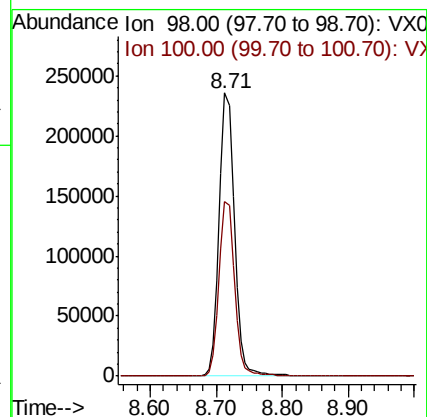
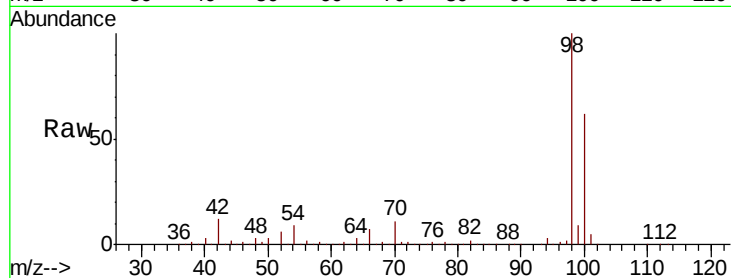
OR-02-102318-A

Tot Ion: 98 Resp: 379194

Ion Ratio Lower Upper

98 100

100 62.4 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 0.477 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX005566.D

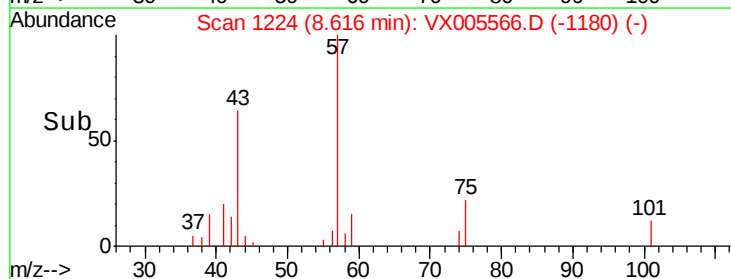
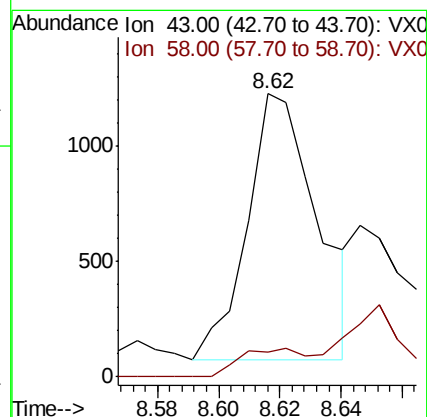
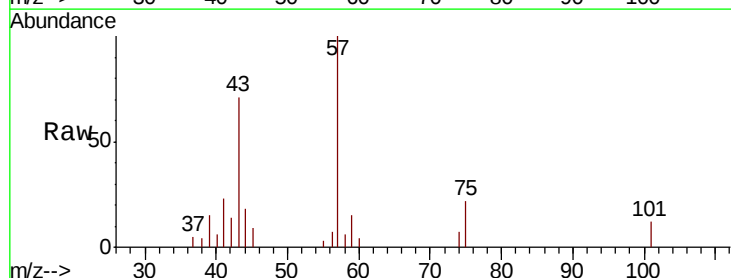
Acq: 25 Oct 2018 03:11

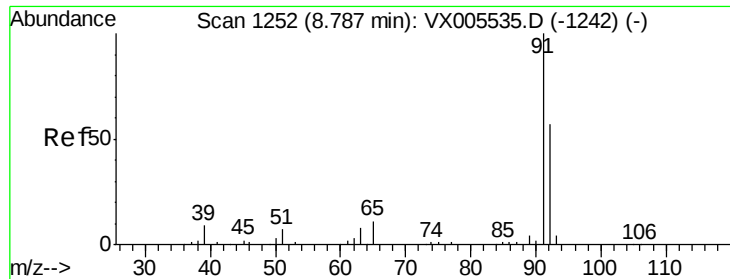
Tgt Ion: 43 Resp: 1825

Ion Ratio Lower Upper

43 100

58 9.8 33.1 49.7#





#52

Toluene

Concen: 0.411 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

Instrument :

MSVOA_X

ClientSampleId :

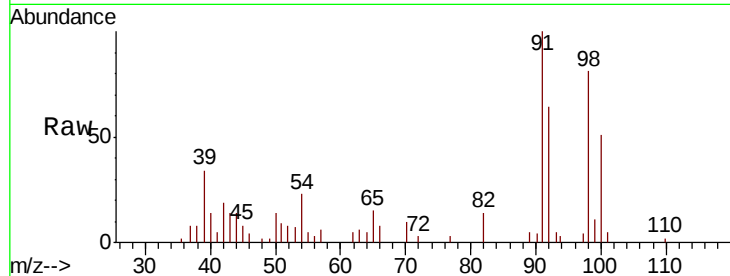
OR-02-102318-A

Tot Ion: 92 Resp: 2131

Ion Ratio Lower Upper

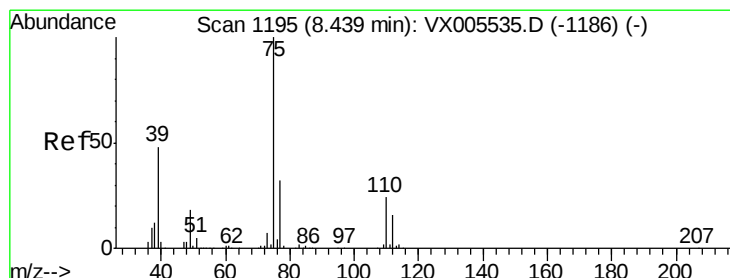
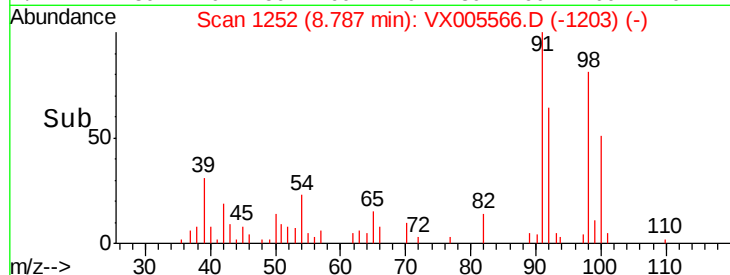
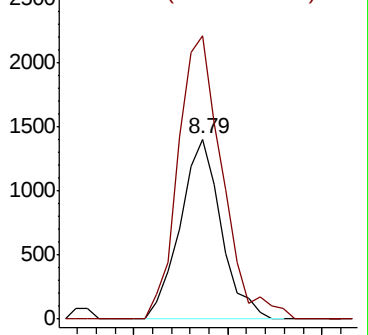
92 100

91 168.7 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 0.217 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

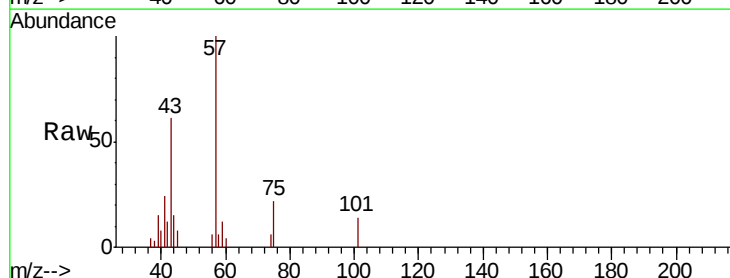
Tgt Ion: 75 Resp: 726

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

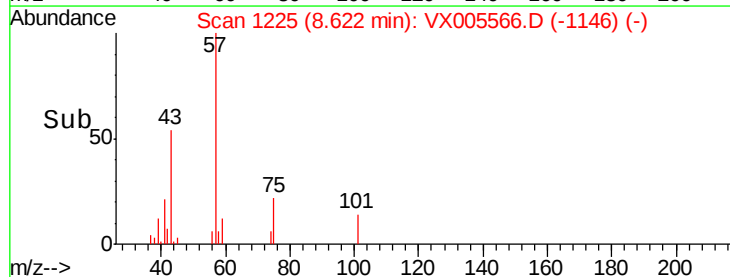
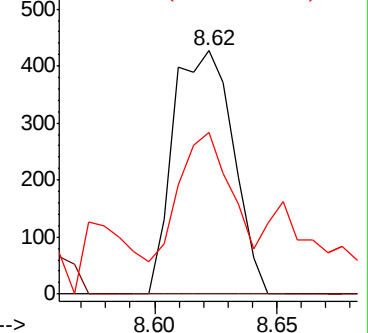
39 48.9 36.4 54.6

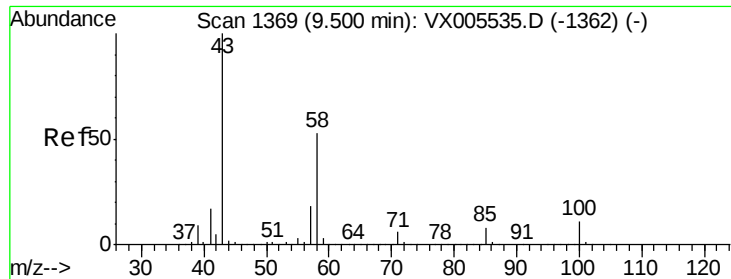


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

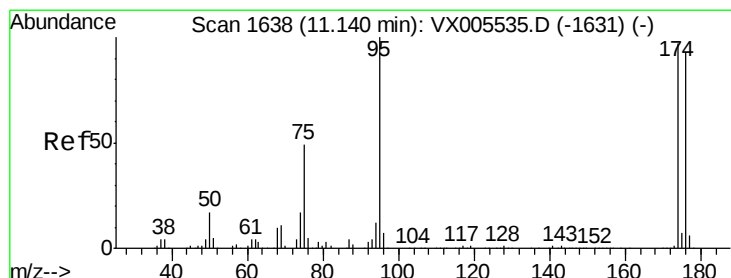
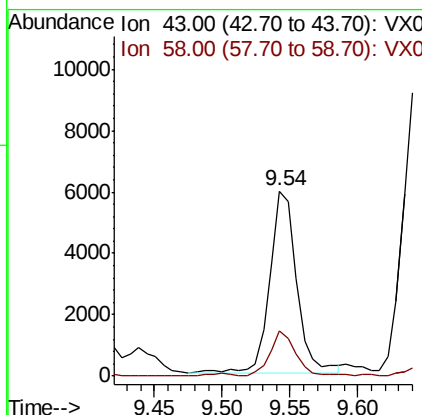
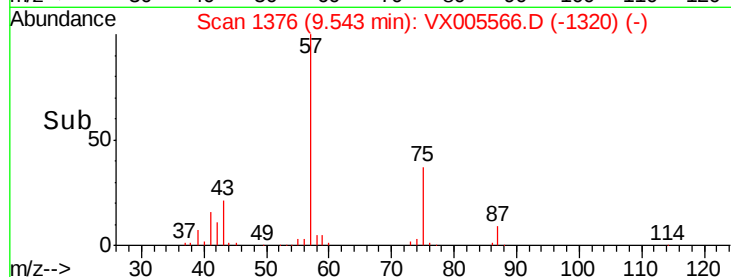
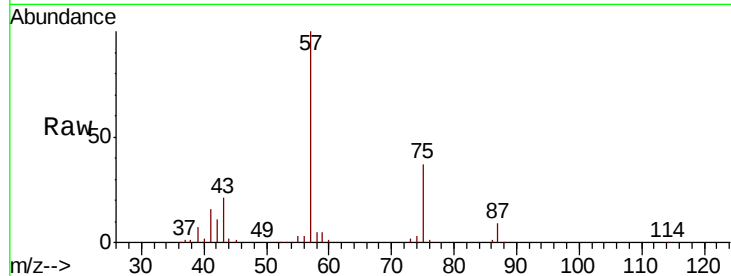




#59
2-Hexanone
Concen: 2.713 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.04 min
Lab File: VX005566.D
Acq: 25 Oct 2018 03:11

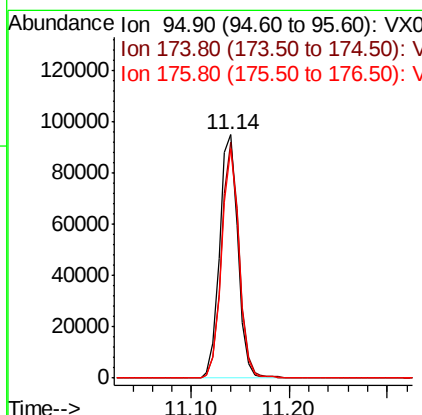
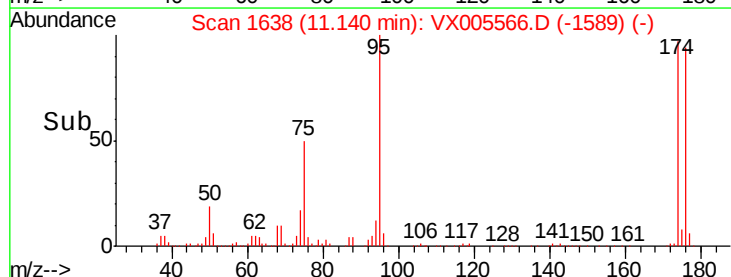
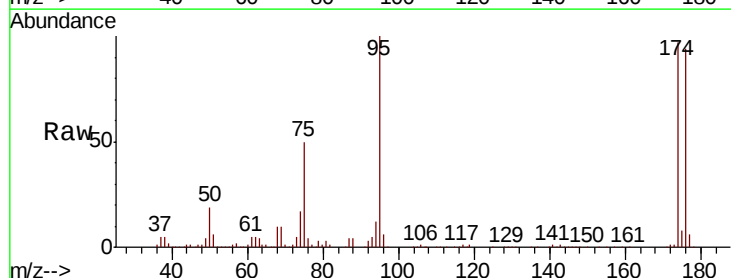
Instrument :
MSVOA_X
ClientSampleId :
OR-02-102318-A

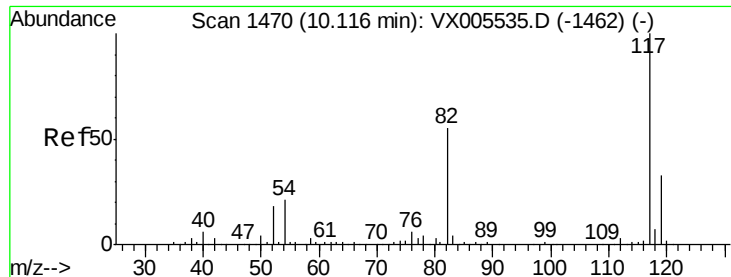
Tot Ion: 43 Resp: 8180
Ion Ratio Lower Upper
43 100
58 23.9 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 43.845 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005566.D
Acq: 25 Oct 2018 03:11

Tgt Ion: 95 Resp: 123546
Ion Ratio Lower Upper
95 100
174 93.1 0.0 185.2
176 89.8 0.0 178.6

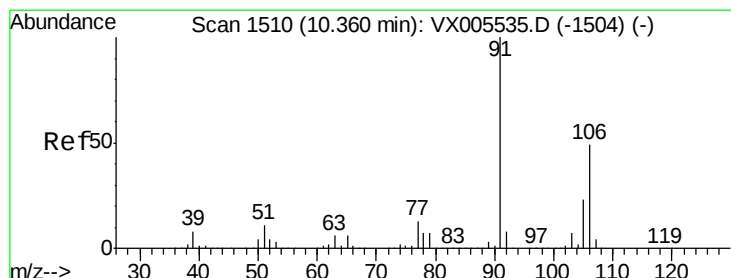
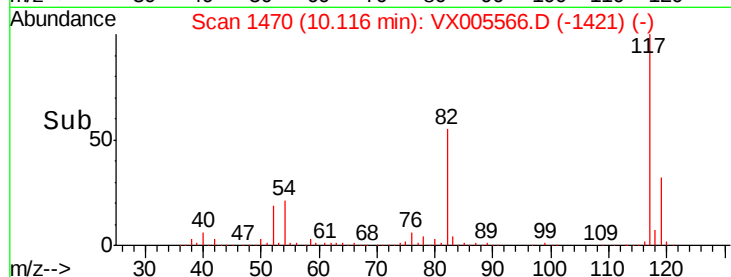
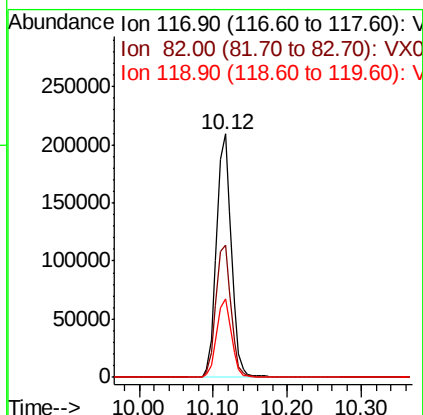
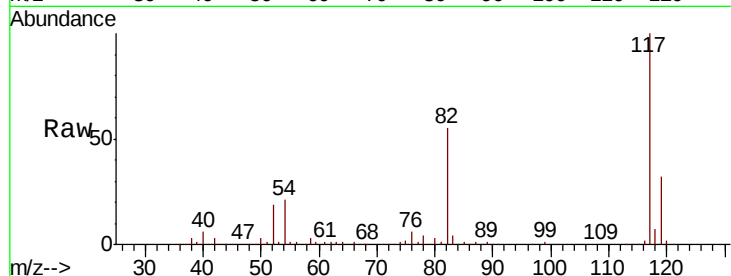




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005566.D
Acq: 25 Oct 2018 03:11

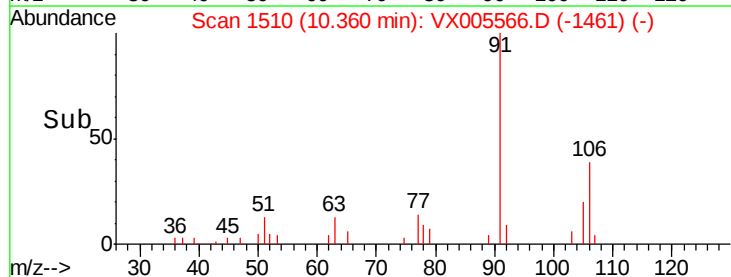
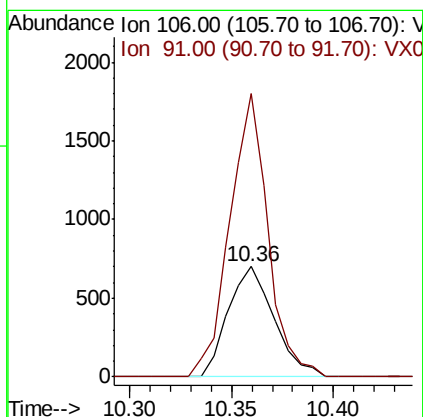
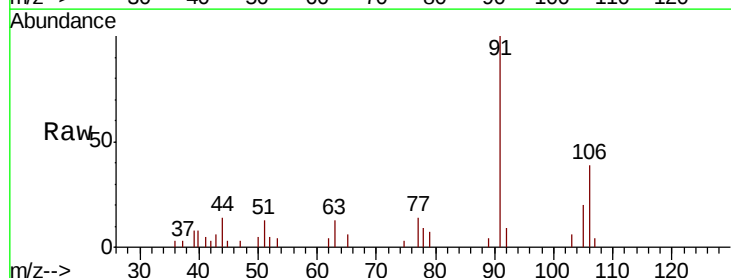
Instrument :
MSVOA_X
ClientSampleId :
OR-02-102318-A

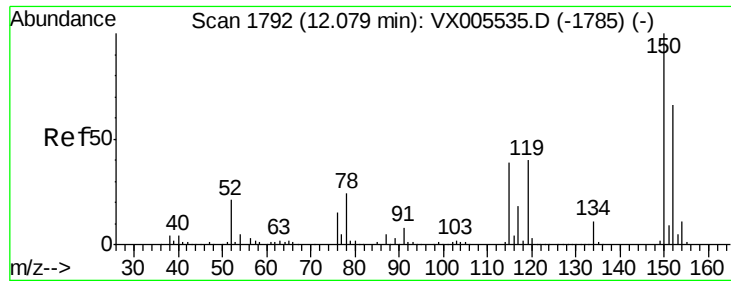
Tot Ion:117 Resp: 285901
Ion Ratio Lower Upper
117 100
82 54.5 47.8 71.6
119 32.4 29.3 43.9



#68
m/p-Xylenes
Concen: 0.280 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX005566.D
Acq: 25 Oct 2018 03:11

Tgt Ion:106 Resp: 1090
Ion Ratio Lower Upper
106 100
91 213.9 157.1 235.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

Instrument :

MSVOA_X

ClientSampleId :

OR-02-102318-A

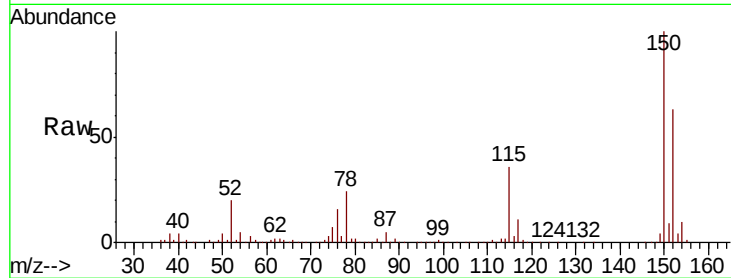
Tot Ion:152 Resp: 132830

Ion Ratio Lower Upper

152 100

115 56.1 39.0 117.0

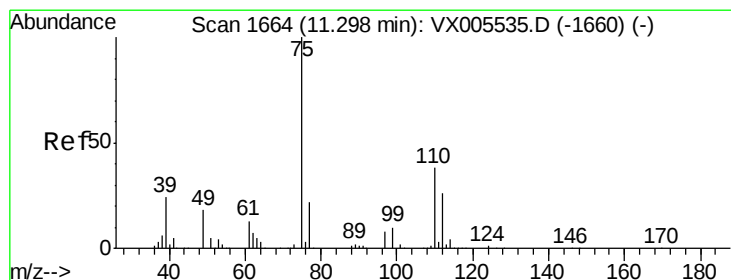
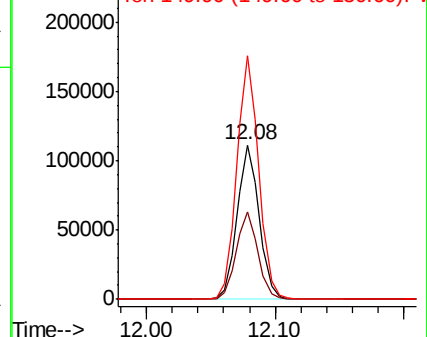
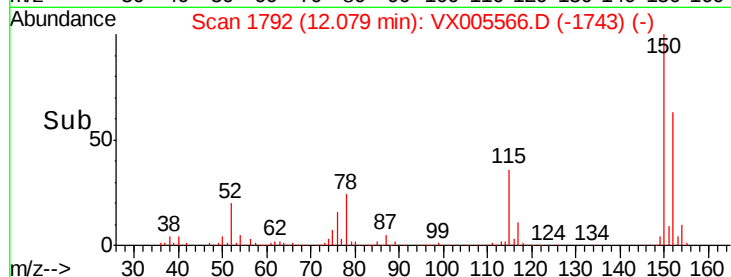
150 157.3 0.0 351.0



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: 23.256 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005566.D

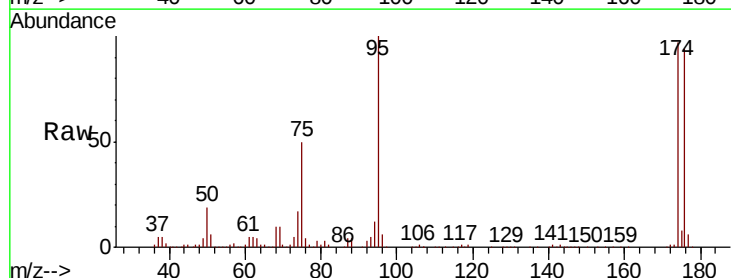
Acq: 25 Oct 2018 03:11

Tgt Ion: 75 Resp: 62920

Ion Ratio Lower Upper

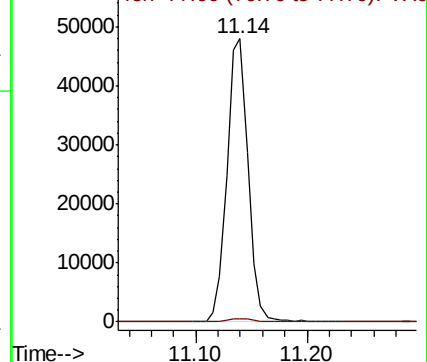
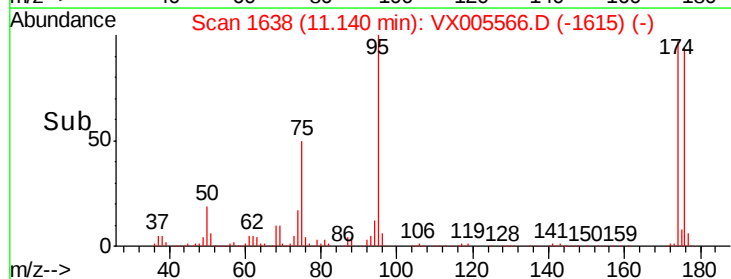
75 100

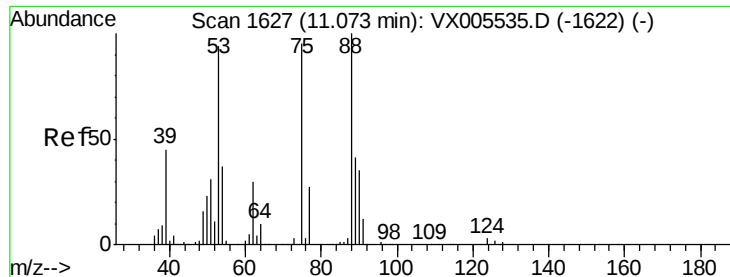
77 1.5 20.2 60.6#



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: 73.052 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

Instrument :

MSVOA_X

ClientSampleId :

OR-02-102318-A

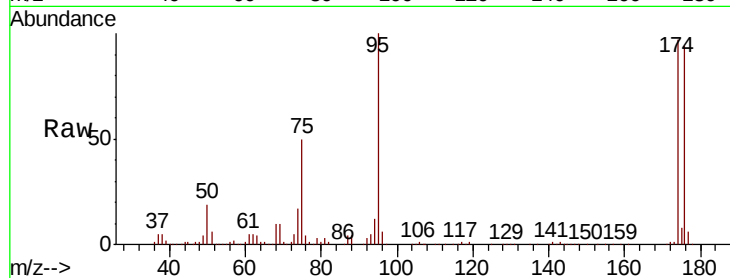
Tot Ion: 75 Resp: 62920

Ion Ratio Lower Upper

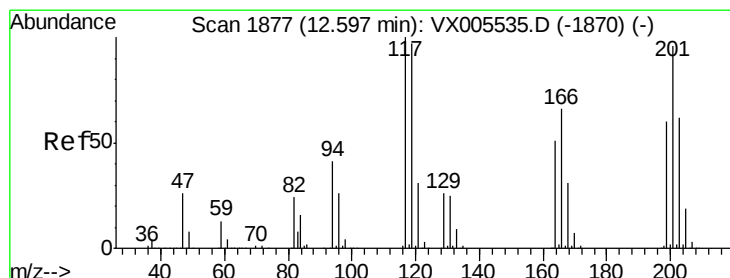
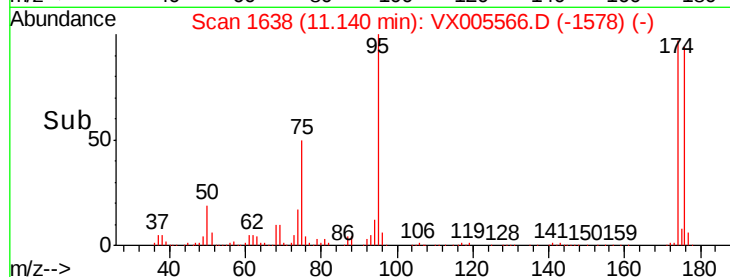
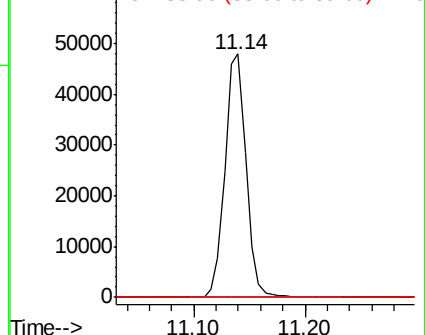
75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#



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



#90

Hexachloroethane

Concen: 0.214 ug/l

RT: 12.47 min Scan# 1856

Delta R.T. -0.13 min

Lab File: VX005566.D

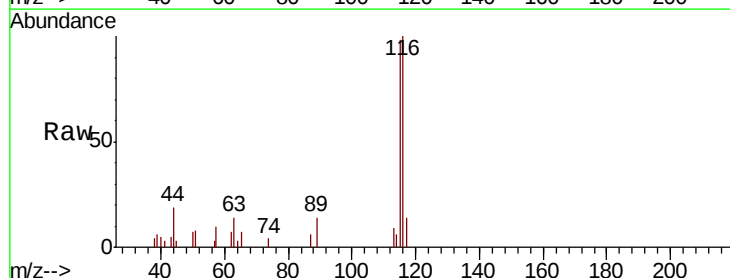
Acq: 25 Oct 2018 03:11

Tgt Ion: 117 Resp: 272

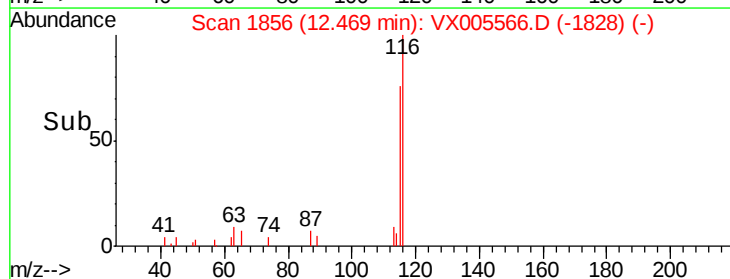
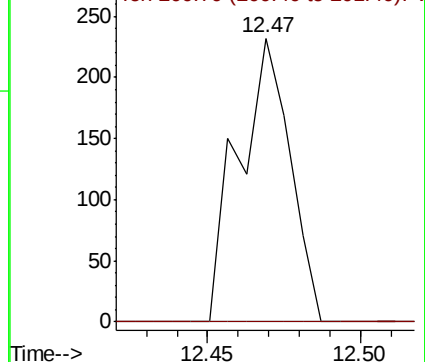
Ion Ratio Lower Upper

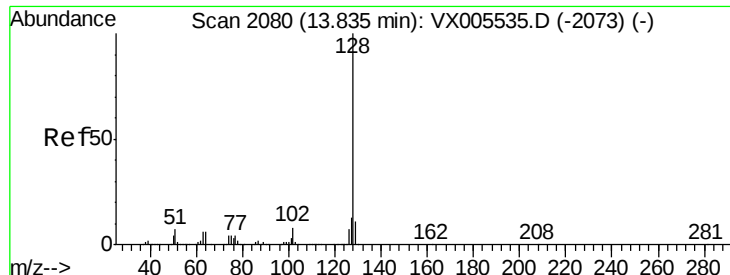
117 100

201 0.0 46.9 140.6#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V





#95

Naphthalene

Concen: 9.662 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005566.D

Acq: 25 Oct 2018 03:11

Instrument :

MSVOA_X

ClientSampleId :

OR-02-102318-A

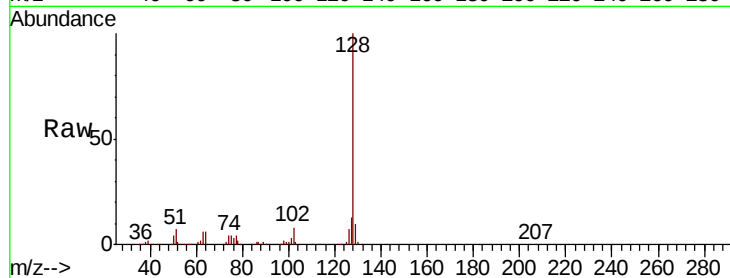
Tot Ion:128 Resp: 87653

Ion Ratio Lower Upper

128 100

127 13.7 10.2 15.2

129 10.9 8.6 12.8



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

