

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030218\
 Data File : VX000194.D
 Acq On : 02 Mar 2018 16:27
 Operator : JC/MD
 Sample : J1766-04 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 03 04:41:57 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X021418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 15 12:46:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	96723	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	160567	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	148394	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	75230	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	62430	51.69	ug/l	0.00
Spiked Amount			Recovery	=	103.38%	
35) Dibromofluoromethane	5.52	113	48796	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	
50) Toluene-d8	8.73	98	193676	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
62) 4-Bromofluorobenzene	11.15	95	67880	43.31	ug/l	0.00
Spiked Amount			Recovery	=	86.62%	

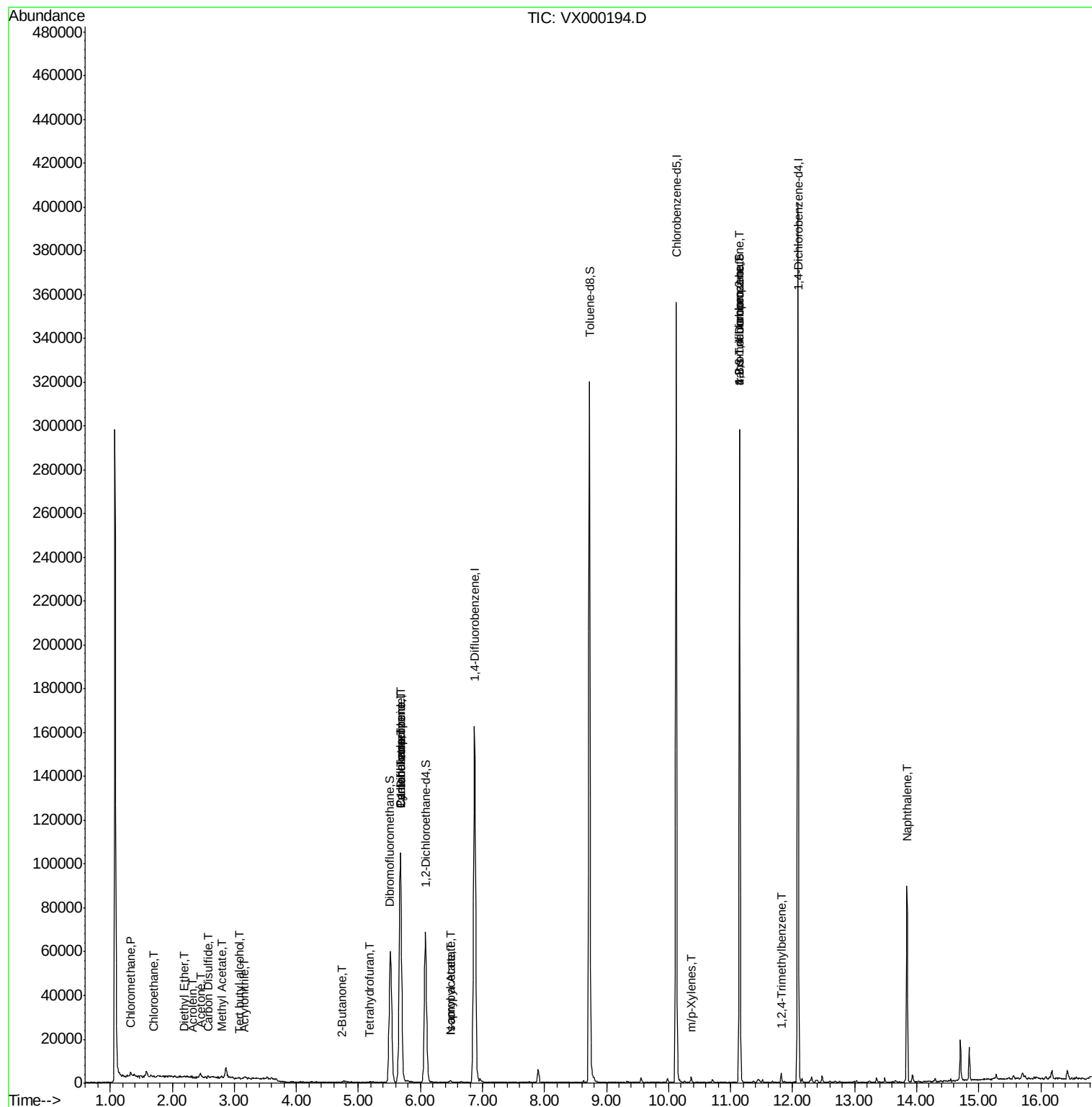
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	828	0.85	ug/l	94
5) Bromomethane	1.65	94	314	Below Cal	#	51
6) Chloroethane	1.70	64	327	0.45	ug/l	42
8) Diethyl Ether	2.19	74	204	0.30	ug/l	1
11) Tert butyl alcohol	3.08	59	216	0.46	ug/l	42
13) Acrolein	2.34	56	87	0.39	ug/l	81
15) Acrylonitrile	3.17	53	262	0.33	ug/l	75
16) Acetone	2.45	43	2185	2.79	ug/l	99
17) Carbon Disulfide	2.58	76	649	0.22	ug/l	16
18) Methyl Acetate	2.79	43	877	0.48	ug/l	82
25) 2-Butanone	4.73	43	350	0.32	ug/l	48
29) Tetrahydrofuran	5.18	42	326	0.46	ug/l	42
31) Cyclohexane	5.67	56	2543	1.68	ug/l	46
36) 1,1-Dichloropropene	5.67	75	8249	5.73	ug/l	49
38) Carbon Tetrachloride	5.68	117	10072	6.47	ug/l	18
41) Methacrylonitrile	5.08	41	21	Below Cal	#	1
43) Isopropyl Acetate	6.48	43	1176	0.41	ug/l	68
68) m/p-Xylenes	10.37	106	676	0.32	ug/l	91
74) N-amyl acetate	6.48	43	1176	0.49	ug/l	70
76) 1,2,3-Trichloropropane	11.15	75	39076	25.07	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.15	75	39076	71.41	ug/l	12
84) 1,2,4-Trimethylbenzene	11.82	105	1695	0.41	ug/l	87
95) Naphthalene	13.84	128	51854	8.35	ug/l	98

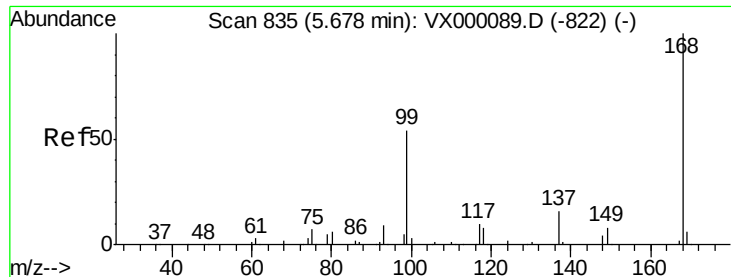
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 15 12:46:41 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.00 min

Lab File: VX000194.D

Acq: 02 Mar 2018 16:27

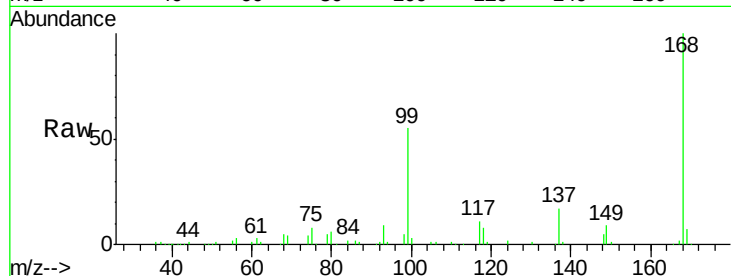
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 96723

Ion Ratio Lower Upper

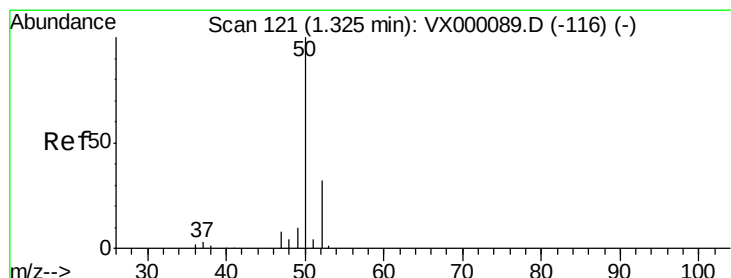
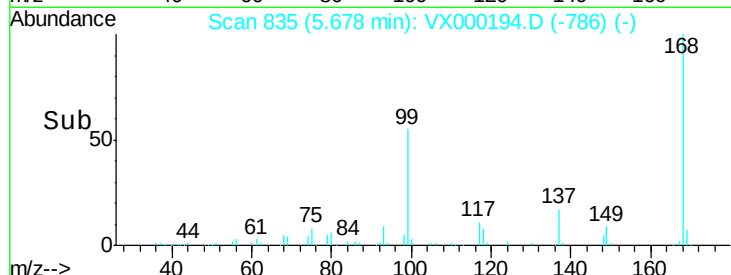
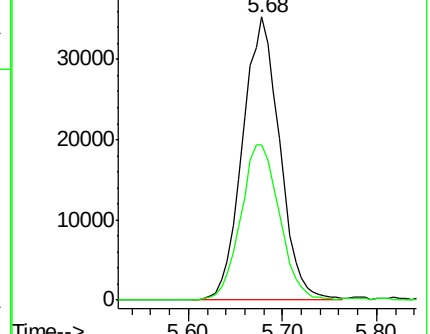
168 100

99 54.9 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.85 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX000194.D

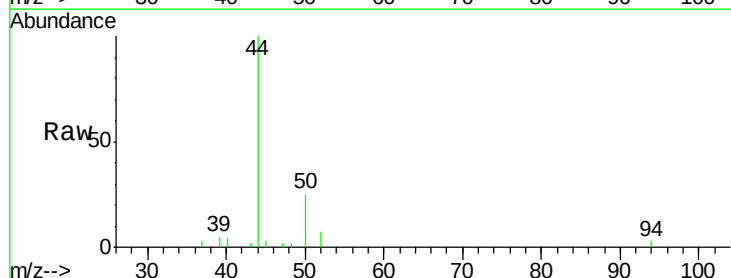
Acq: 02 Mar 2018 16:27

Tgt Ion: 50 Resp: 828

Ion Ratio Lower Upper

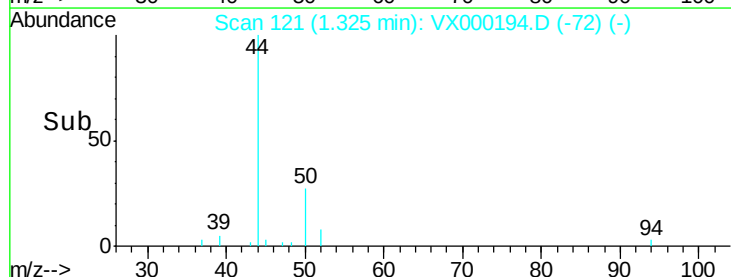
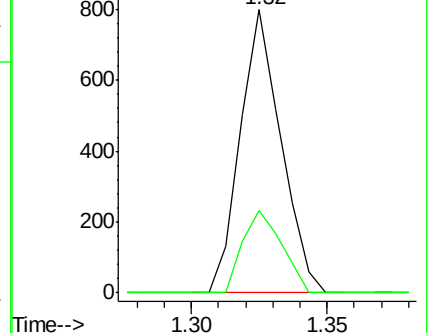
50 100

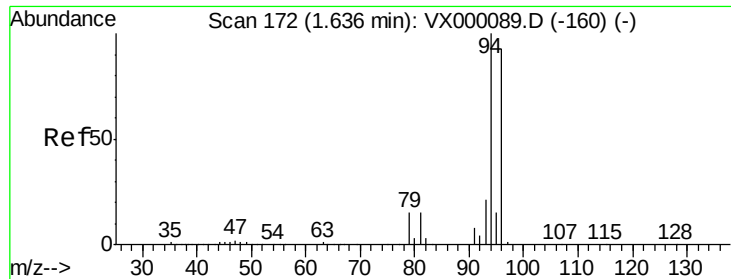
52 29.1 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX000194.D

Acq: 02 Mar 2018 16:27

Instrument :

MSVOA_X

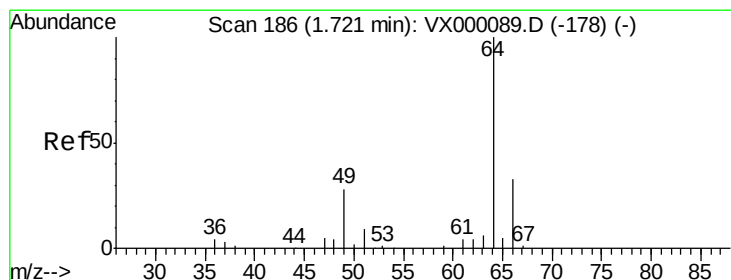
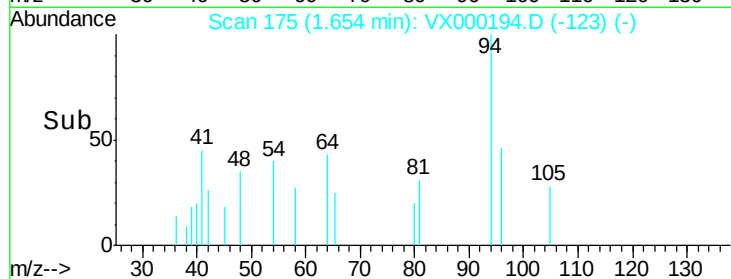
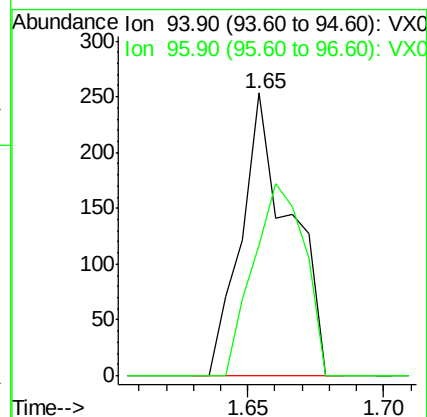
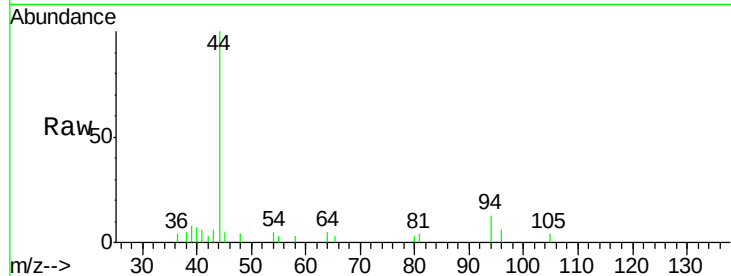
ClientSampled :

Tot Ion: 94 Resp: 314

Ion Ratio Lower Upper

94 100

96 46.2 74.6 112.0#



#6

Chloroethane

Concen: 0.45 ug/l

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX000194.D

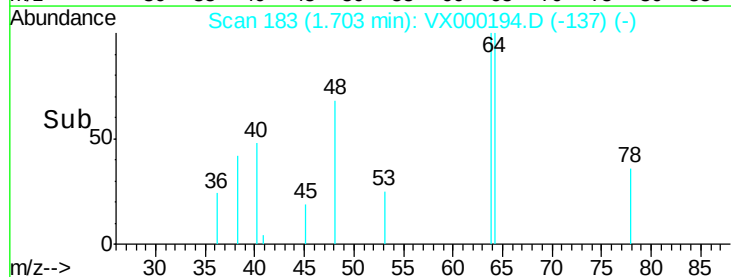
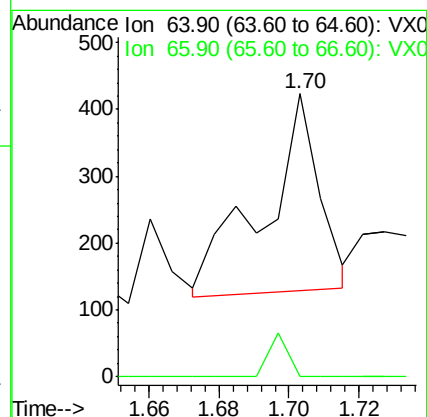
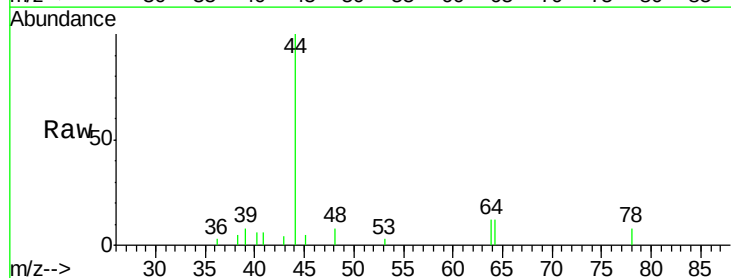
Acq: 02 Mar 2018 16:27

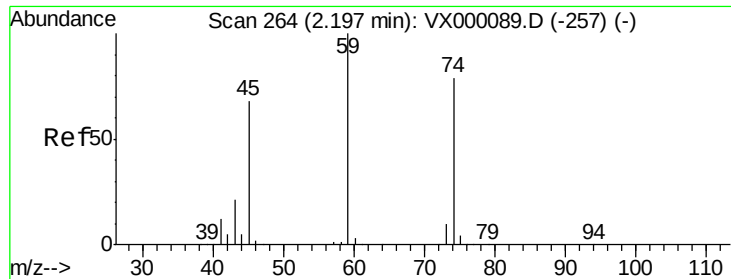
Tgt Ion: 64 Resp: 327

Ion Ratio Lower Upper

64 100

66 0.0 26.0 39.0#





#8

Diethyl Ether

Concen: 0.30 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX000194.D

Acq: 02 Mar 2018 16:27

Instrument :

MSVOA_X

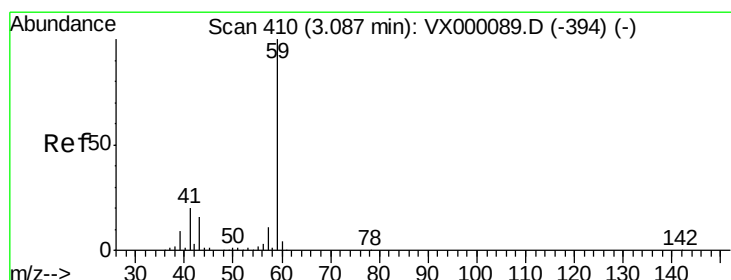
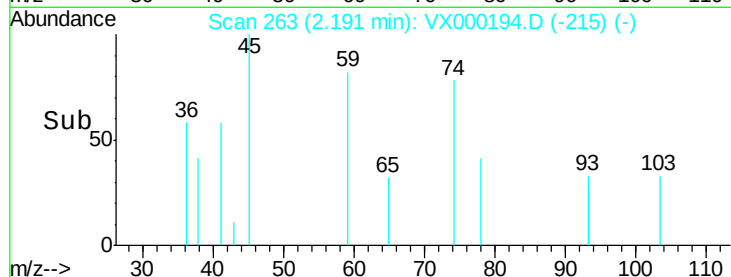
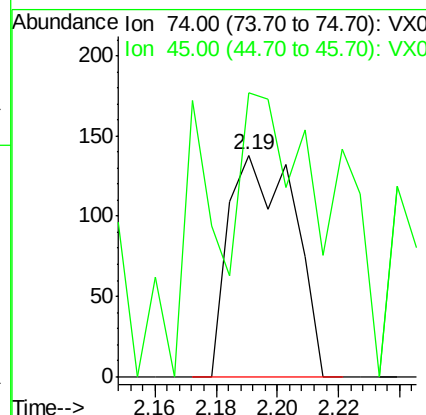
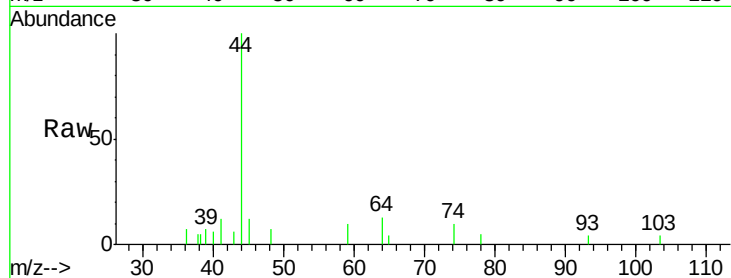
ClientSampled :

Tot Ion: 74 Resp: 204

Ion Ratio Lower Upper

74 100

45 241.2 44.7 134.1#



#11

Tert butyl alcohol

Concen: 0.46 ug/l

RT: 3.08 min Scan# 409

Delta R.T. -0.01 min

Lab File: VX000194.D

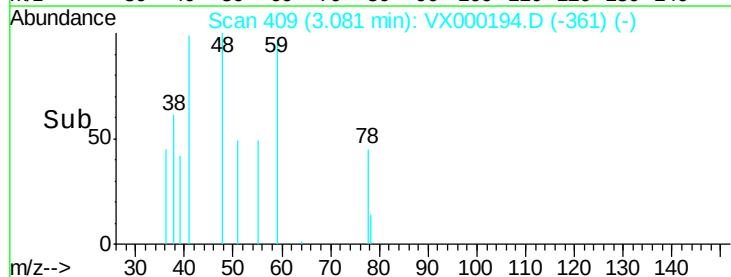
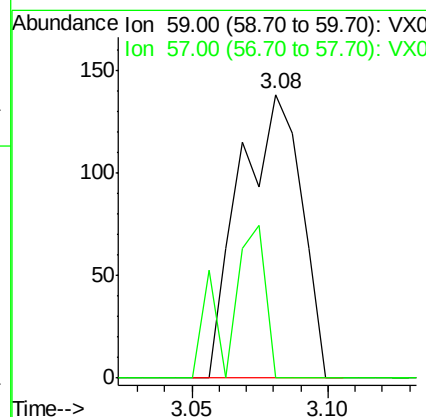
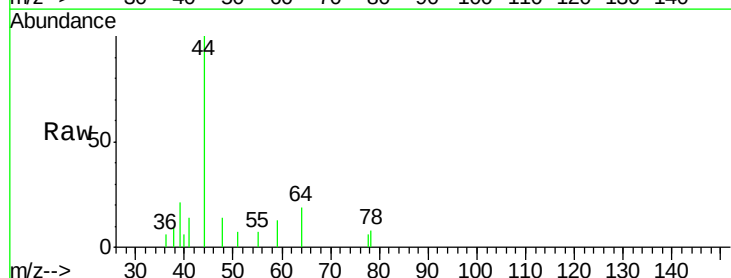
Acq: 02 Mar 2018 16:27

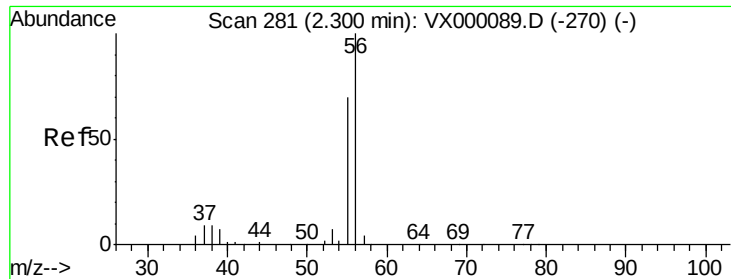
Tgt Ion: 59 Resp: 216

Ion Ratio Lower Upper

59 100

57 31.9 8.3 12.5#





#13

Acrolein

Concen: 0.39 ug/l

RT: 2.34 min Scan# 287

Delta R.T. 0.04 min

Lab File: VX000194.D

Acq: 02 Mar 2018 16:27

Instrument :

MSVOA_X

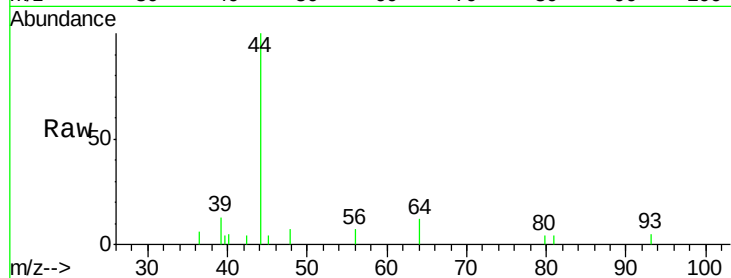
ClientSampled :

Tot Ion: 56 Resp: 87

Ion Ratio Lower Upper

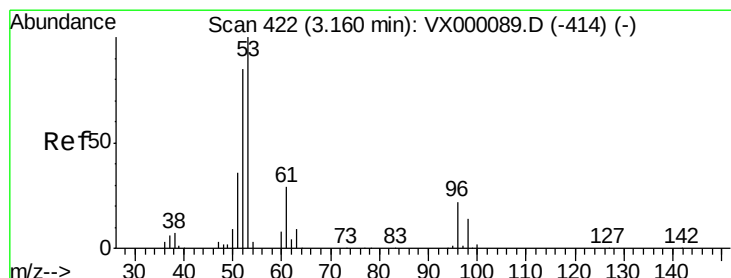
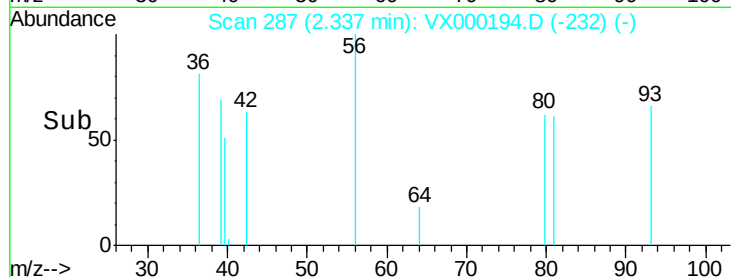
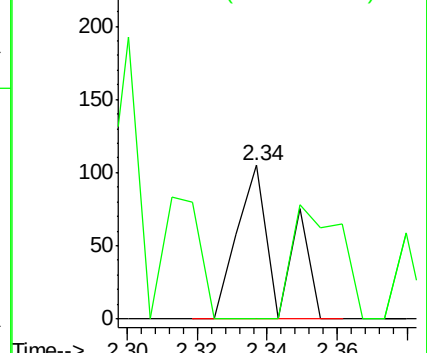
56 100

55 86.2 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.33 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX000194.D

Acq: 02 Mar 2018 16:27

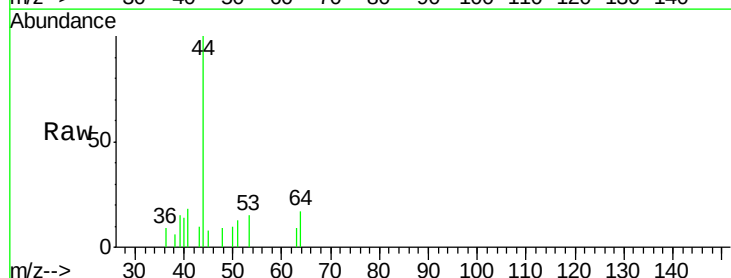
Tgt Ion: 53 Resp: 262

Ion Ratio Lower Upper

53 100

52 53.8 66.5 99.7#

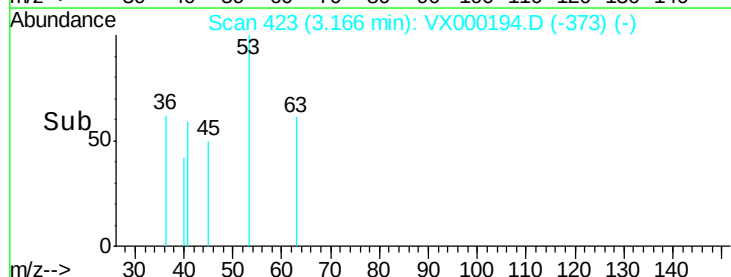
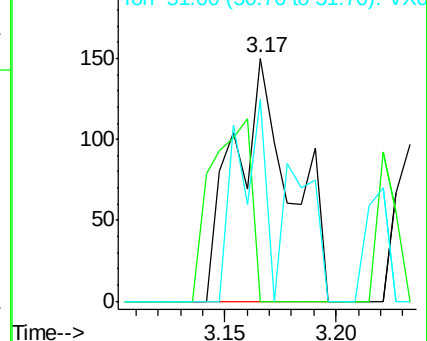
51 41.2 29.0 43.6

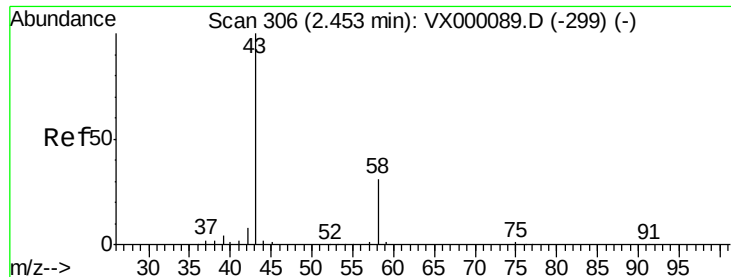


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 2.79 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX000194.D

Acq: 02 Mar 2018 16:27

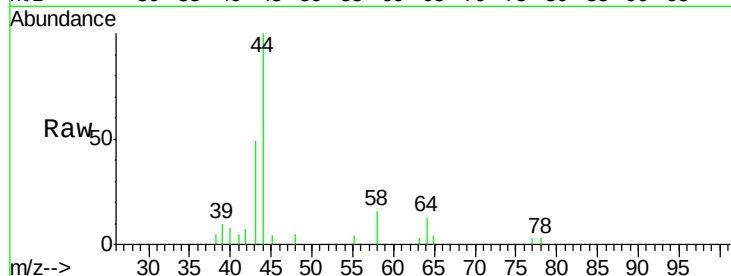
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 2185

Ion Ratio Lower Upper

43 100

58 31.7 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

1000

800

600

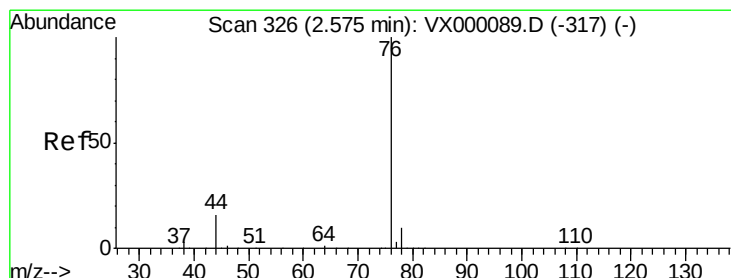
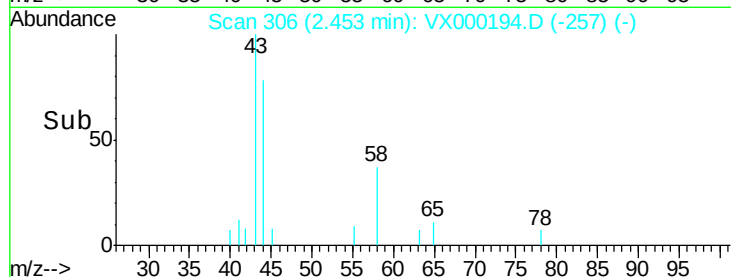
400

200

0

Time-->

2.40 2.45 2.50 2.55



#17

Carbon Disulfide

Concen: 0.22 ug/l

RT: 2.58 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX000194.D

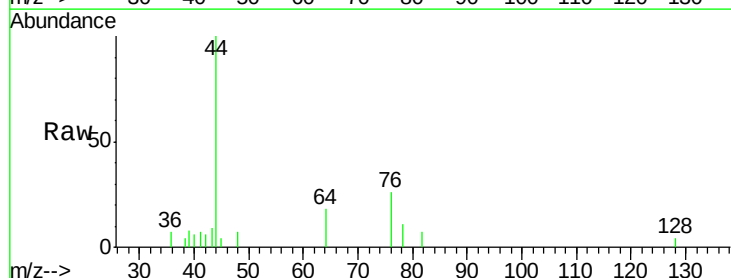
Acq: 02 Mar 2018 16:27

Tgt Ion: 76 Resp: 649

Ion Ratio Lower Upper

76 100

78 40.8 7.8 11.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.58

400

300

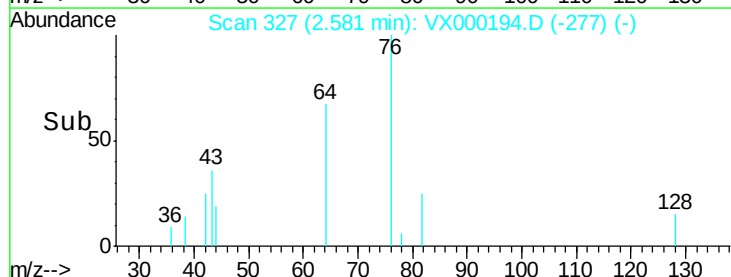
200

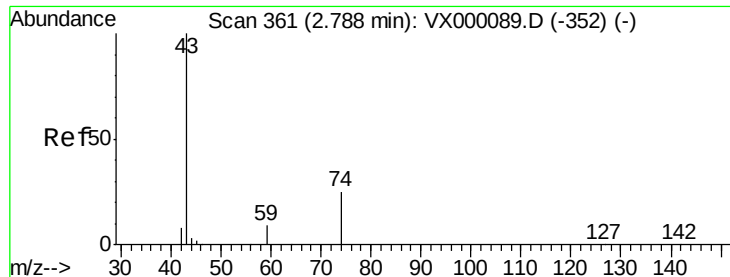
100

0

Time-->

2.55 2.60

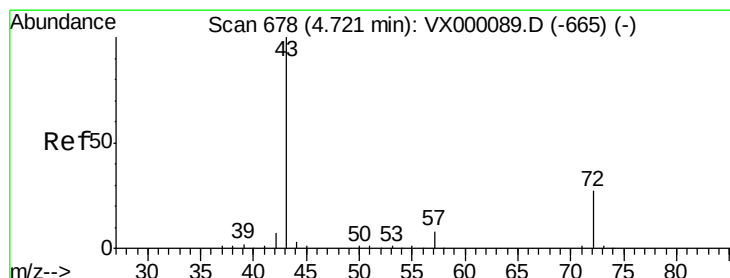
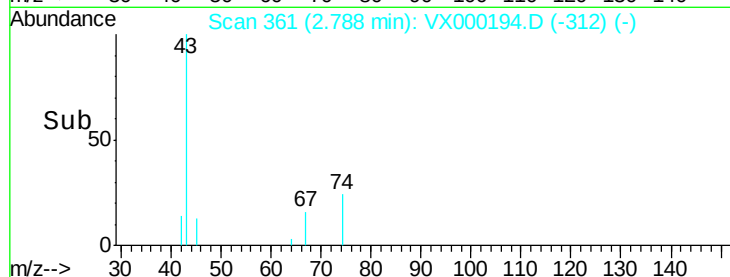
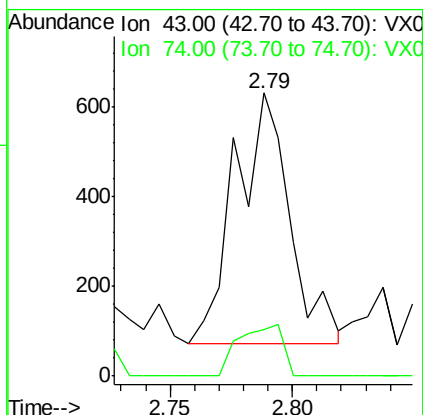
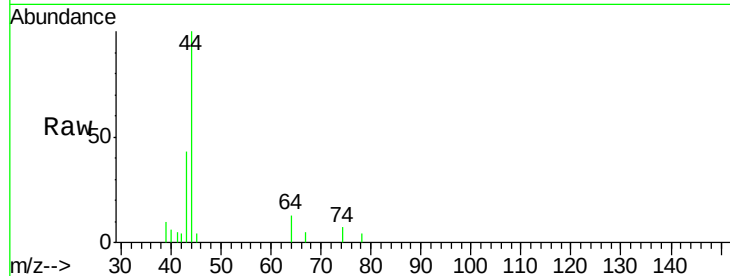




#18
Methvl Acetate
Concen: 0.48 ug/l
RT: 2.79 min Scan# 361
Delta R.T. 0.00 min
Lab File: VX000194.D
Acq: 02 Mar 2018 16:27

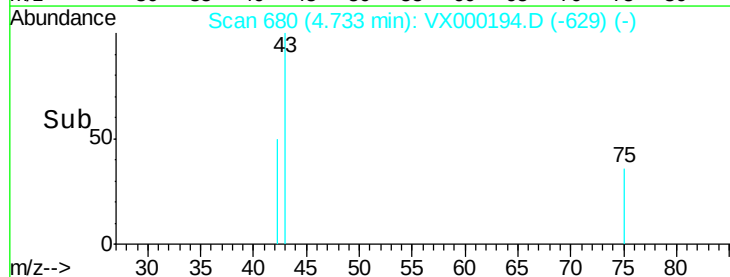
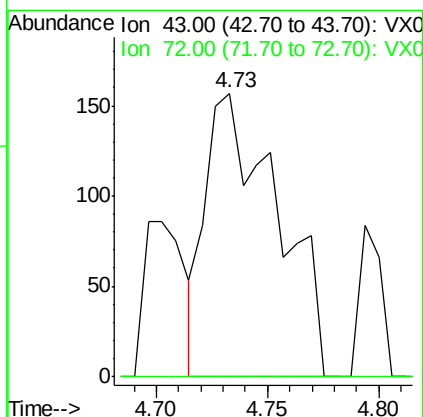
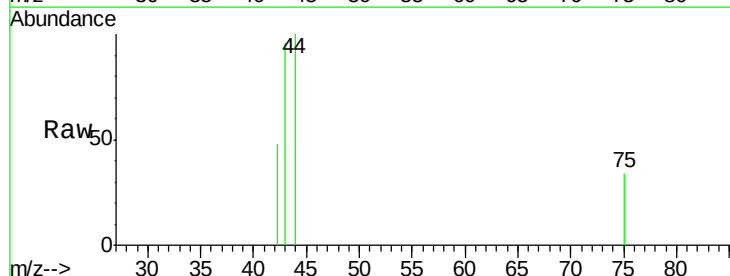
Instrument :
MSVOA_X
ClientSampled :

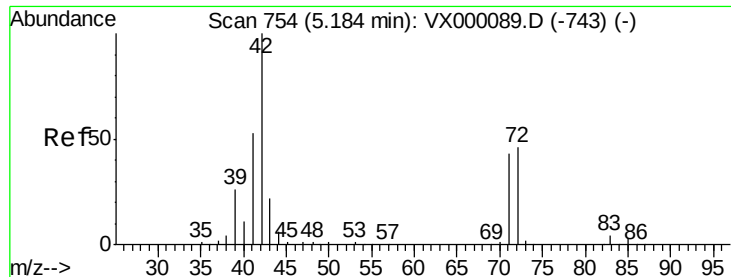
Tot Ion: 43 Resp: 877
Ion Ratio Lower Upper
43 100
74 16.3 20.2 30.4#



#25
2-Butanone
Concen: 0.32 ug/l
RT: 4.73 min Scan# 680
Delta R.T. 0.01 min
Lab File: VX000194.D
Acq: 02 Mar 2018 16:27

Tgt Ion: 43 Resp: 350
Ion Ratio Lower Upper
43 100
72 0.0 21.3 31.9#

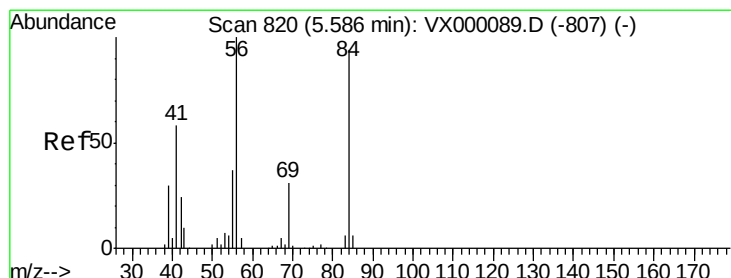
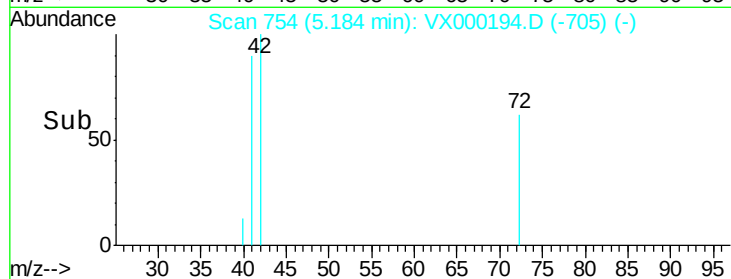
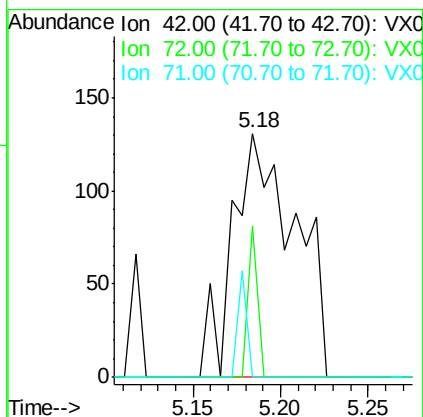
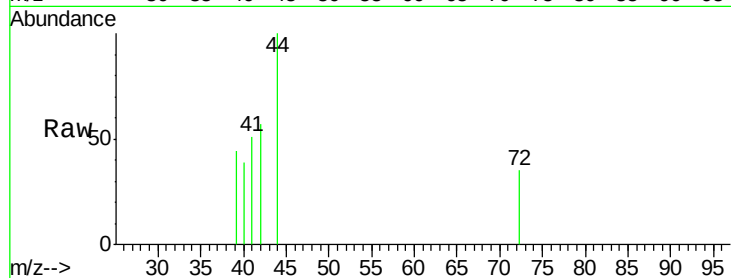




#29
Tetrahydrofuran
Concen: 0.46 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.00 min
Lab File: VX000194.D
Acq: 02 Mar 2018 16:27

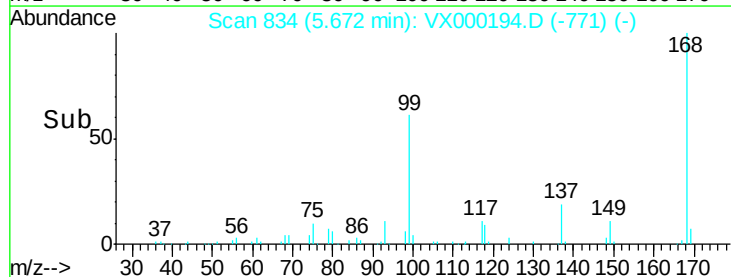
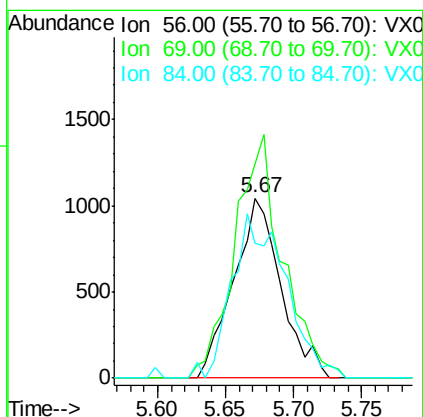
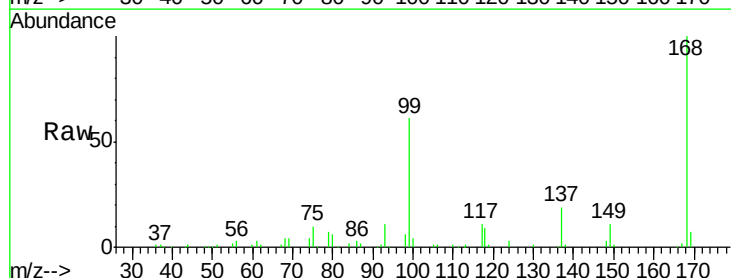
Instrument :
MSVOA_X
ClientSampleId :

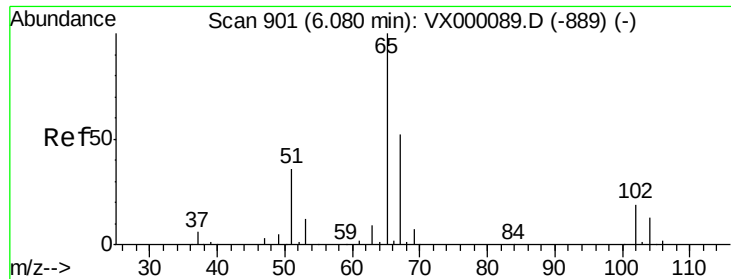
Tot Ion: 42 Resp: 326
Ion Ratio Lower Upper
42 100
72 9.2 38.6 58.0#
71 6.4 36.2 54.4#



#31
Cyclohexane
Concen: 1.68 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX000194.D
Acq: 02 Mar 2018 16:27

Tgt Ion: 56 Resp: 2543
Ion Ratio Lower Upper
56 100
69 119.3 24.9 37.3#
84 75.1 75.0 112.4

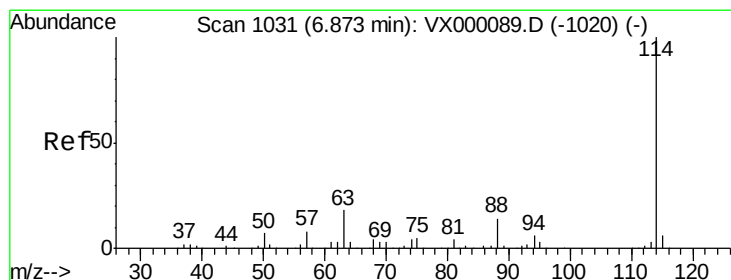
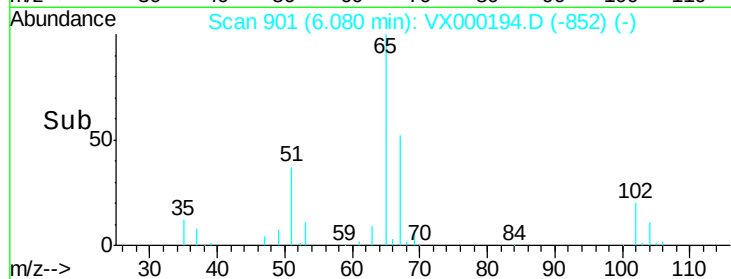
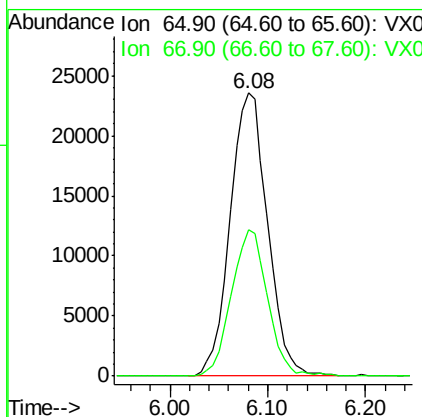
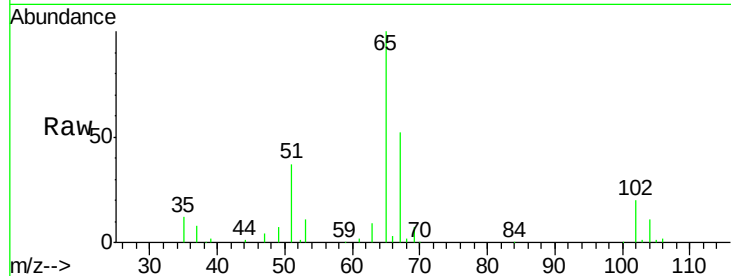




#33
 1,2-Dichloroethane-d4
 Concen: 51.69 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. 0.00 min
 Lab File: VX000194.D
 Acq: 02 Mar 2018 16:27

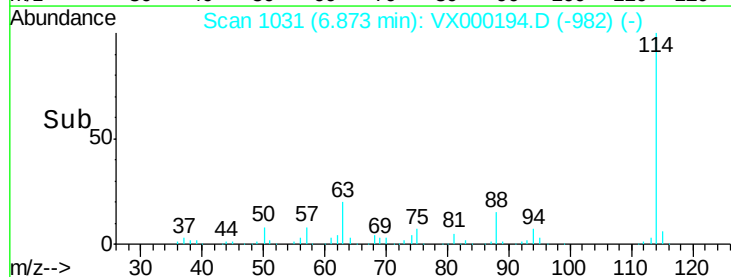
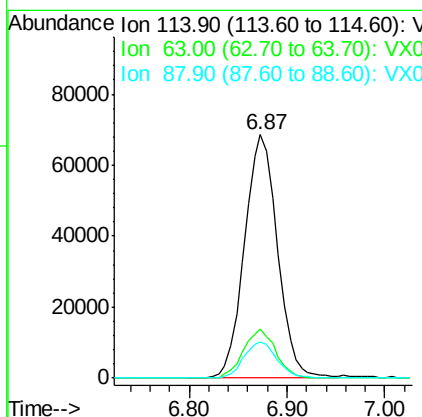
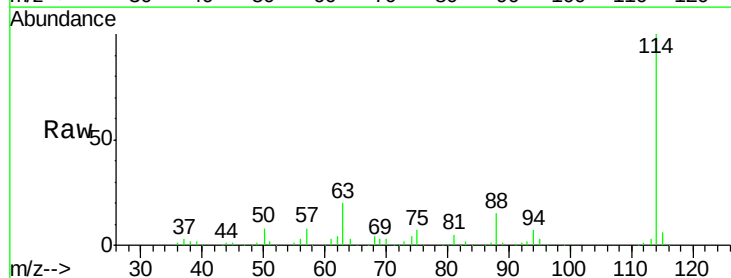
Instrument :
 MSVOA_X
 ClientSampled :

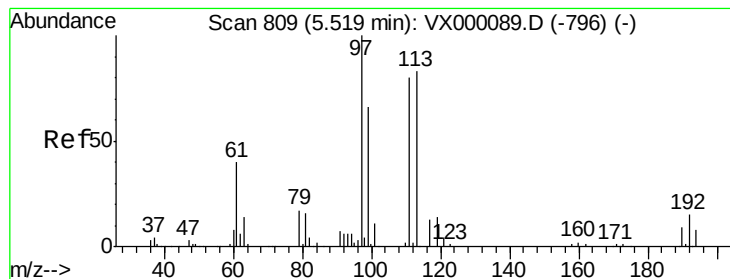
Tot Ion: 65 Resp: 62430
 Ion Ratio Lower Upper
 65 100
 67 49.6 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.00 min
 Lab File: VX000194.D
 Acq: 02 Mar 2018 16:27

Tgt Ion: 114 Resp: 160567
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 36.4
 88 14.8 0.0 29.0





#35

Dibromofluoromethane

Concen: 48.15 ug/l

RT: 5.52 min Scan# 809

Delta R.T. 0.00 min

Lab File: VX000194.D

Acq: 02 Mar 2018 16:27

Instrument :

MSVOA_X

ClientSampleId :

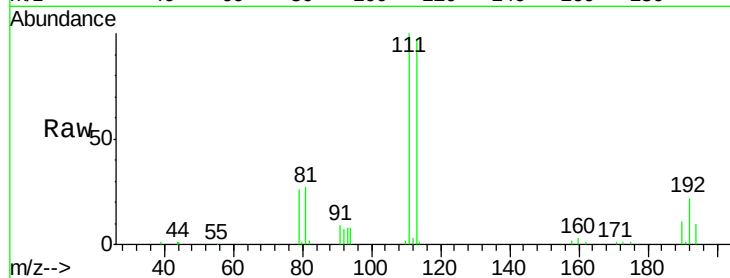
Tot Ion:113 Resp: 48796

Ion Ratio Lower Upper

113 100

111 101.2 81.0 121.6

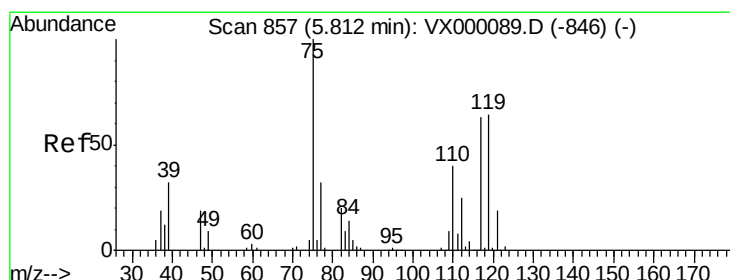
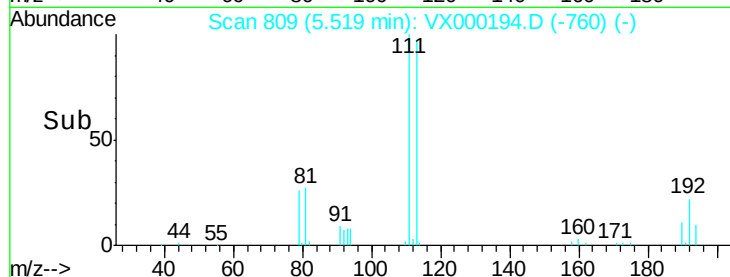
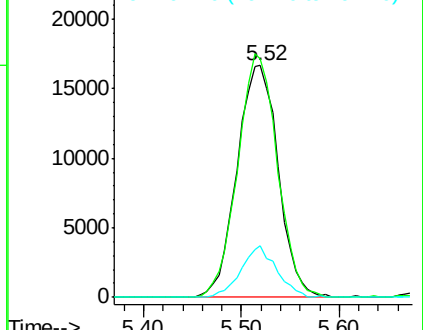
192 19.2 15.7 23.5



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: 5.73 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.14 min

Lab File: VX000194.D

Acq: 02 Mar 2018 16:27

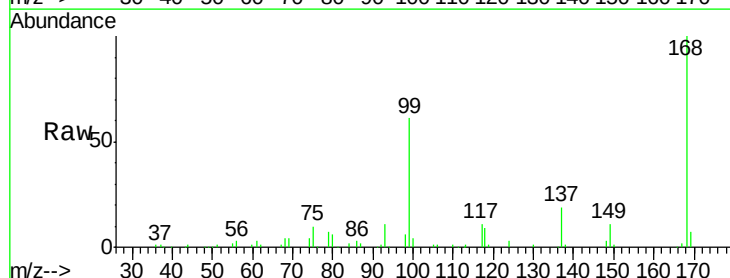
Tgt Ion: 75 Resp: 8249

Ion Ratio Lower Upper

75 100

110 10.9 19.5 58.5#

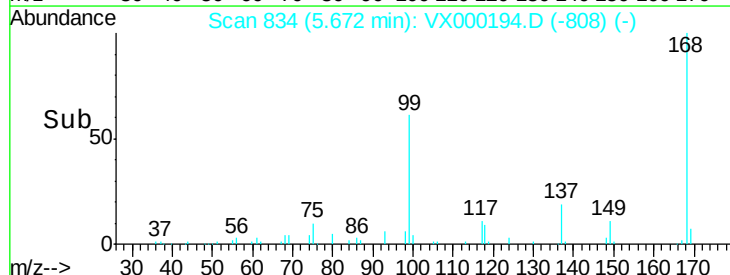
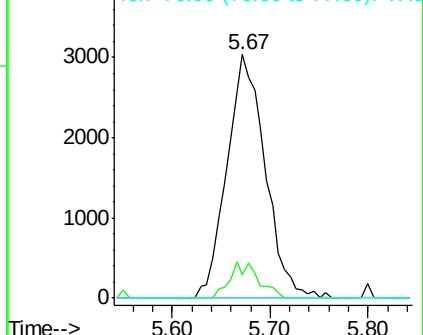
77 0.0 24.7 37.1#

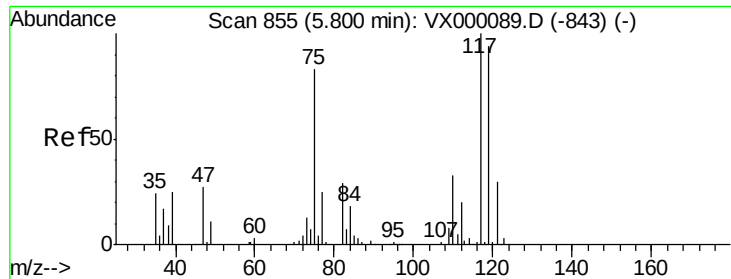


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

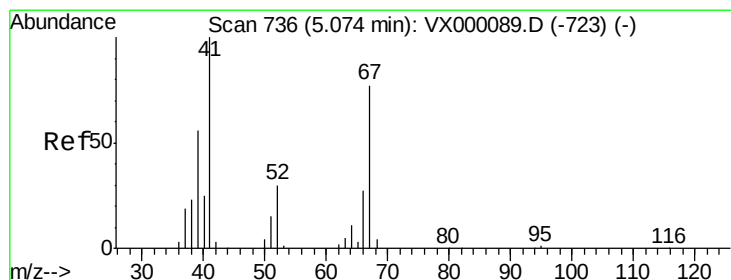
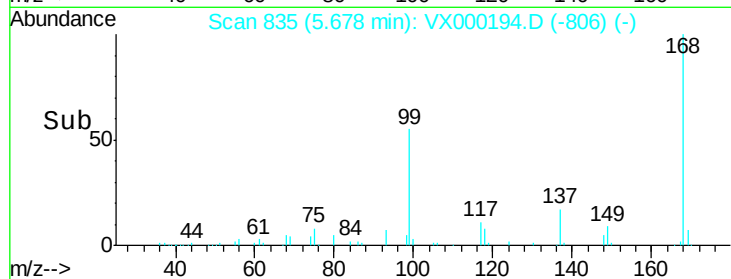
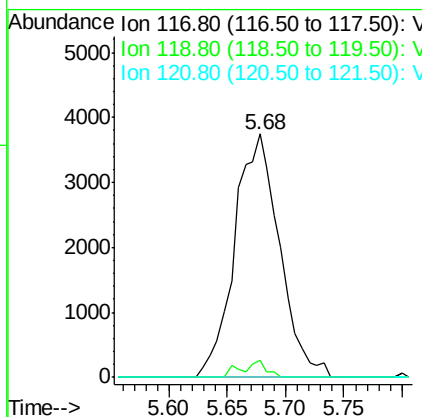
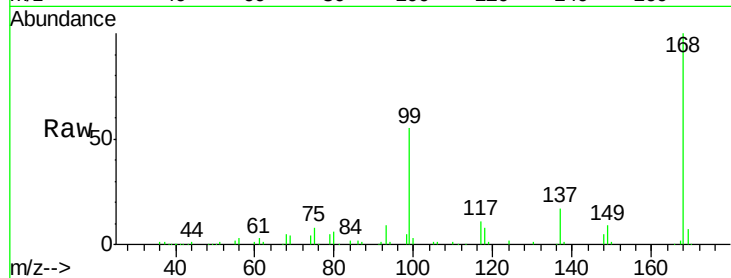




#38
Carbon Tetrachloride
Concen: 6.47 ua/l
RT: 5.68 min Scan# 835
Delta R.T. -0.12 min
Lab File: VX000194.D
Acq: 02 Mar 2018 16:27

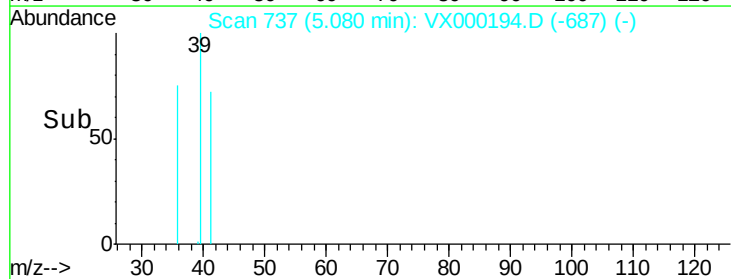
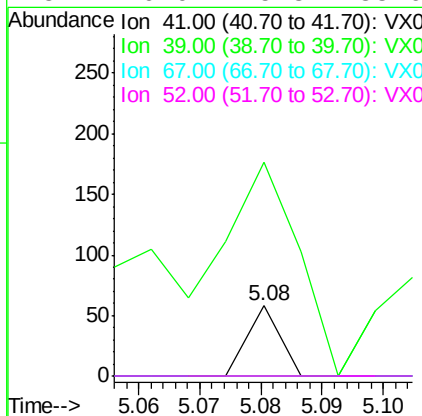
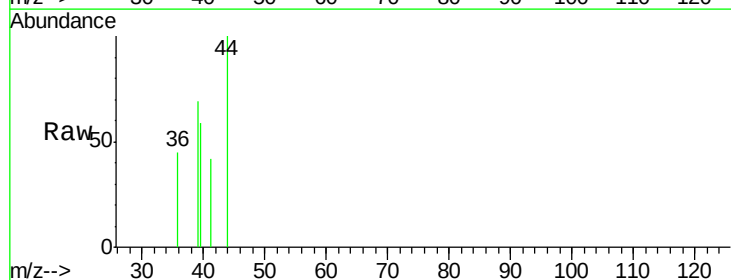
Instrument :
MSVOA_X
ClientSampleId :

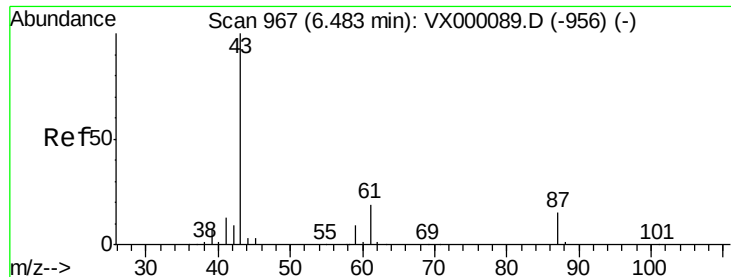
Tot Ion:117 Resp: 10072
Ion Ratio Lower Upper
117 100
119 7.1 75.3 112.9#
121 0.0 23.7 35.5#



#41
Methacrylonitrile
Concen: Below Cal
RT: 5.08 min Scan# 737
Delta R.T. 0.01 min
Lab File: VX000194.D
Acq: 02 Mar 2018 16:27

Tgt Ion: 41 Resp: 21
Ion Ratio Lower Upper
41 100
39 1400.0 45.1 67.7#
67 0.0 61.0 91.4#
52 0.0 25.8 38.6#





#43

Isopropyl Acetate

Concen: 0.41 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.00 min

Lab File: VX000194.D

Acq: 02 Mar 2018 16:27

Instrument :

MSVOA_X

ClientSampleId :

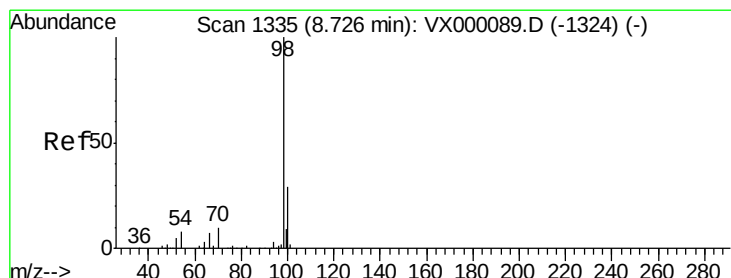
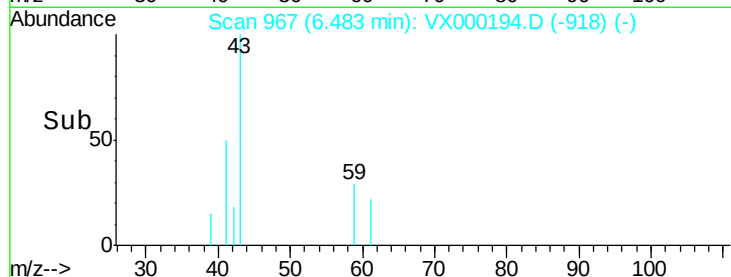
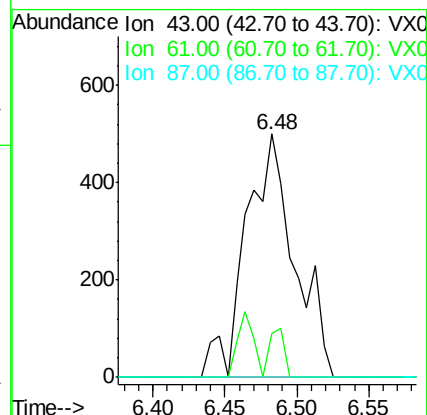
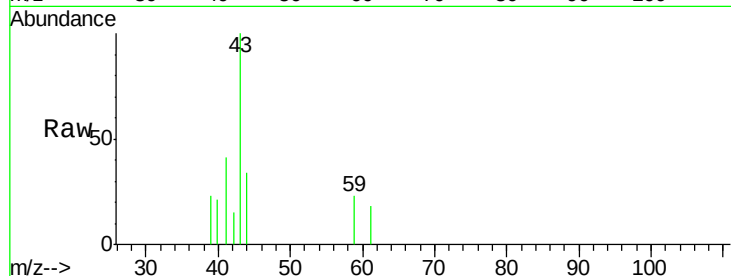
Tot Ion: 43 Resp: 1176

Ion Ratio Lower Upper

43 100

61 6.0 15.6 23.4#

87 0.0 11.7 17.5#



#50

Toluene-d8

Concen: 48.45 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VX000194.D

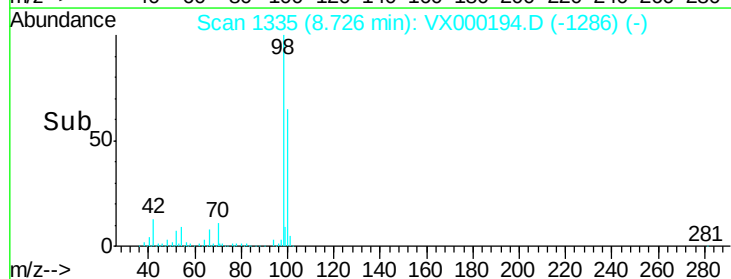
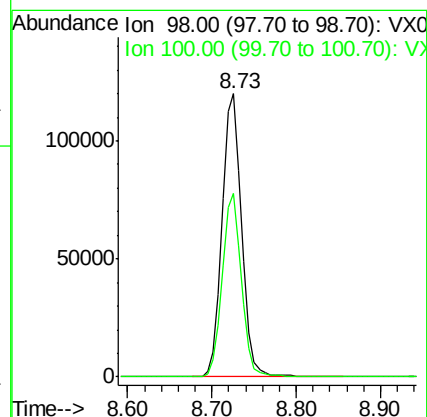
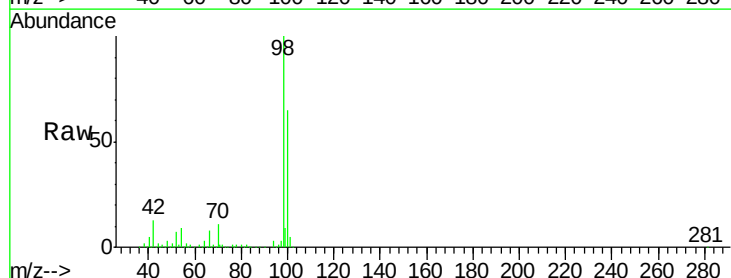
Acq: 02 Mar 2018 16:27

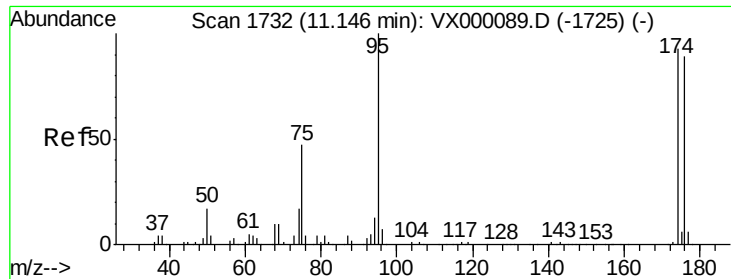
Tgt Ion: 98 Resp: 193676

Ion Ratio Lower Upper

98 100

100 63.7 52.2 78.2

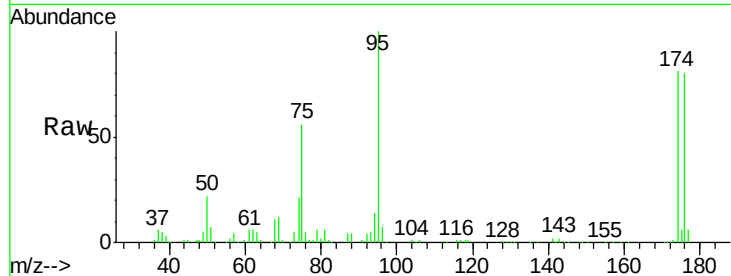




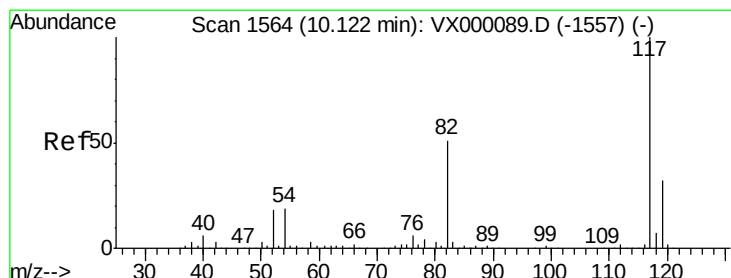
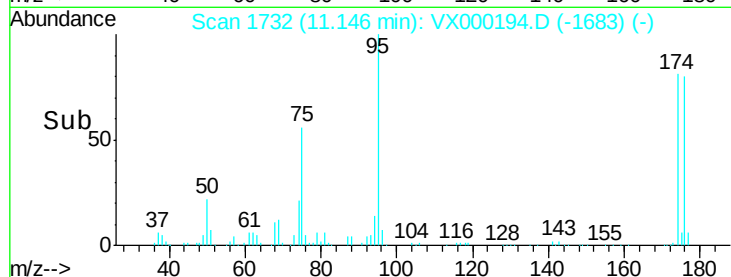
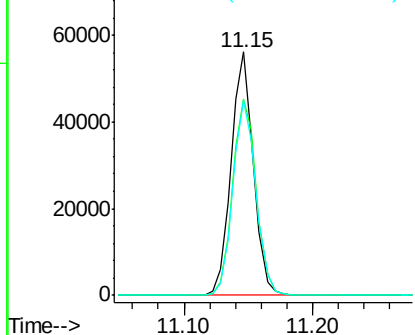
#62
4-Bromofluorobenzene
Concen: 43.31 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VX000194.D
Acq: 02 Mar 2018 16:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 67880
Ion Ratio Lower Upper
95 100
174 85.5 0.0 187.8
176 82.7 0.0 181.2

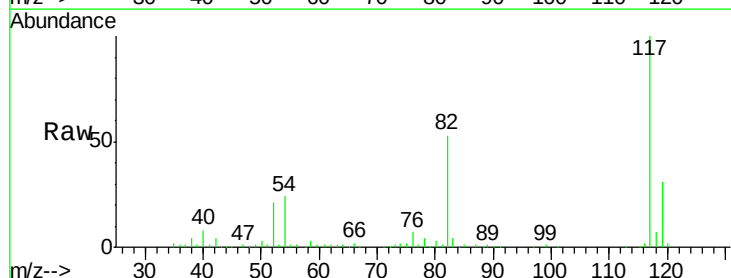


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

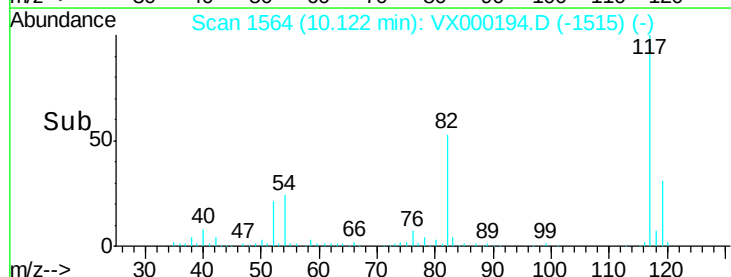
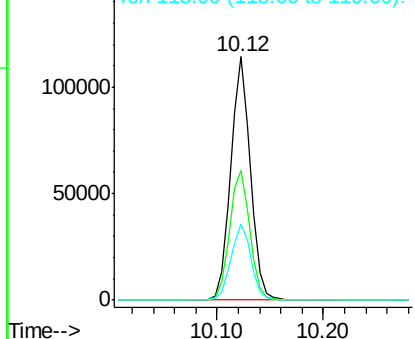


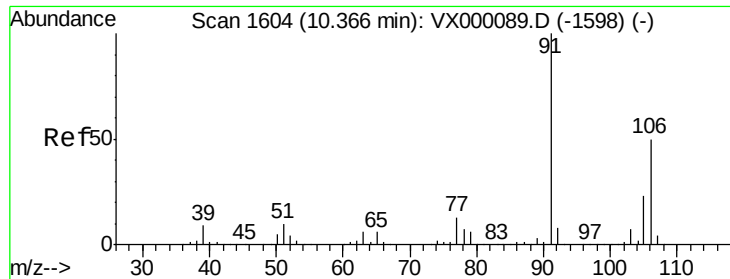
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX000194.D
Acq: 02 Mar 2018 16:27

Tgt Ion: 117 Resp: 148394
Ion Ratio Lower Upper
117 100
82 53.2 41.0 61.6
119 31.3 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V





#68

m/p-Xvlenes

Concen: 0.32 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VX000194.D

Acq: 02 Mar 2018 16:27

Instrument :

MSVOA_X

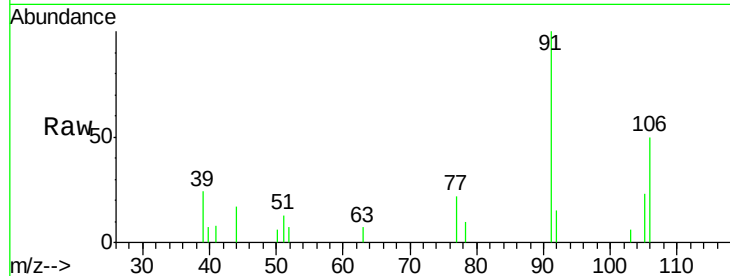
ClientSampleId :

Tot Ion:106 Resp: 676

Ion Ratio Lower Upper

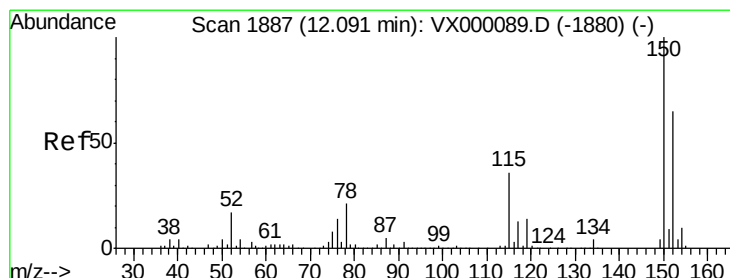
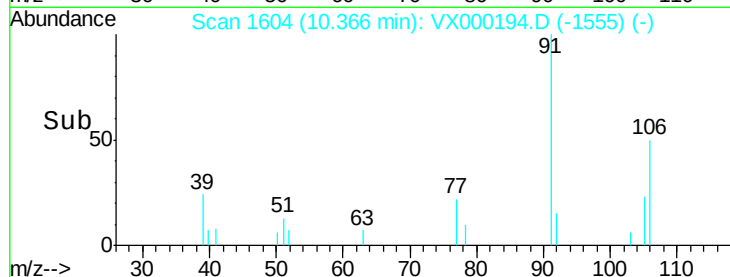
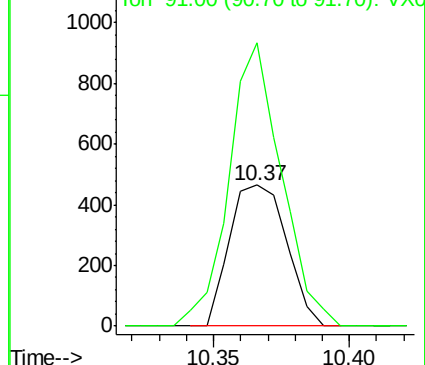
106 100

91 184.9 159.1 238.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.01 min

Lab File: VX000194.D

Acq: 02 Mar 2018 16:27

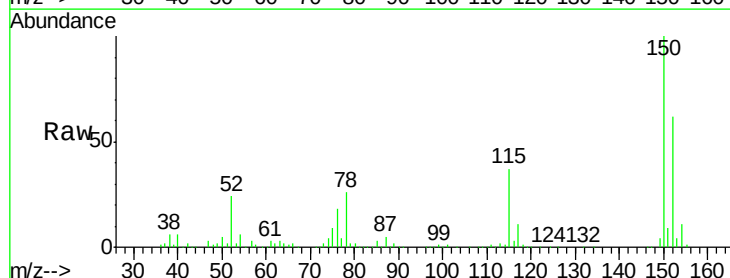
Tgt Ion:152 Resp: 75230

Ion Ratio Lower Upper

152 100

115 59.1 39.1 117.2

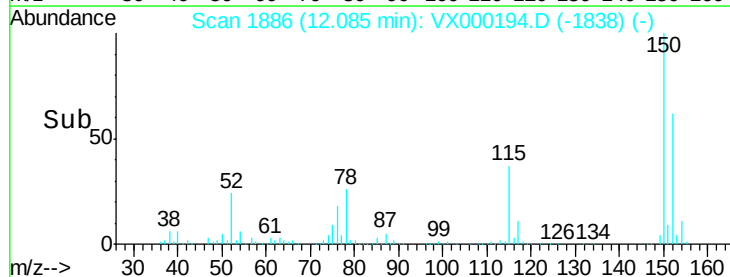
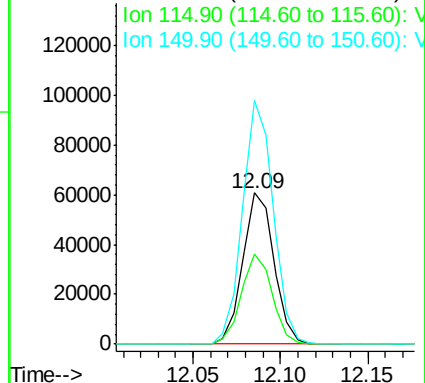
150 158.9 0.0 348.2

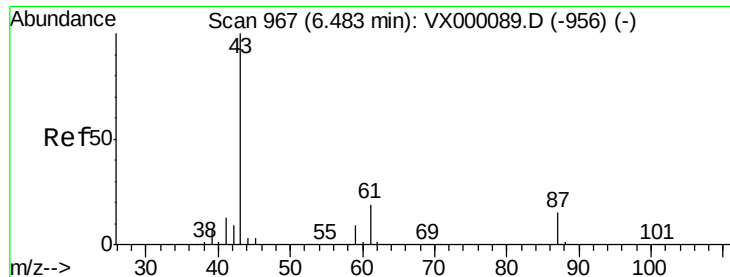


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.49 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.00 min

Lab File: VX000194.D

Acq: 02 Mar 2018 16:27

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 1176

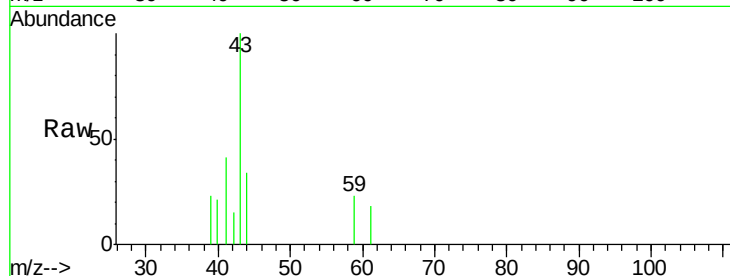
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.1 0.1#

61 6.0 15.6 23.4#

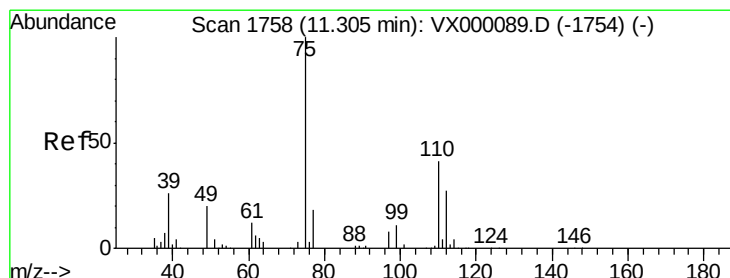
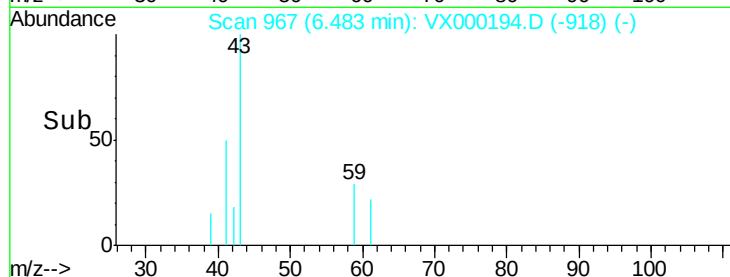
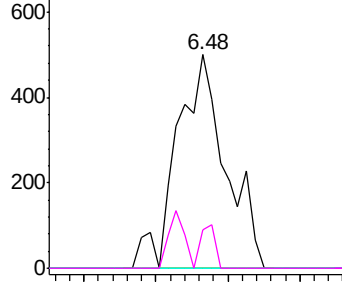


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 25.07 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000194.D

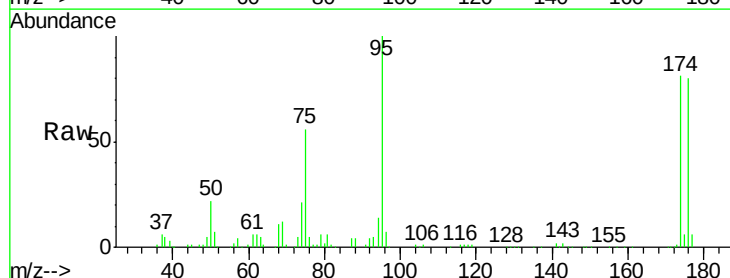
Acq: 02 Mar 2018 16:27

Tgt Ion: 75 Resp: 39076

Ion Ratio Lower Upper

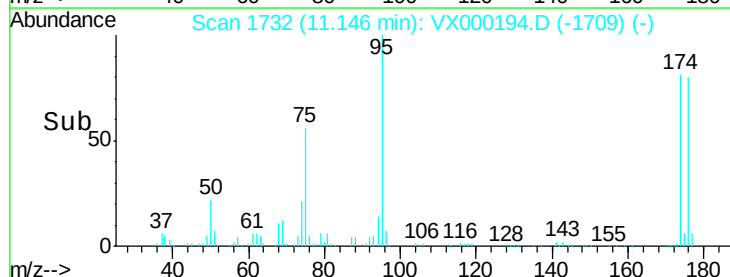
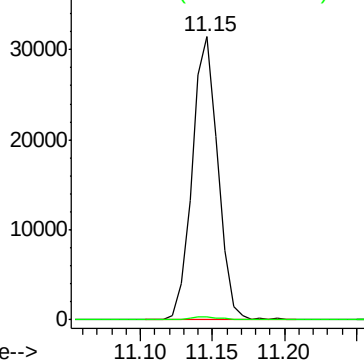
75 100

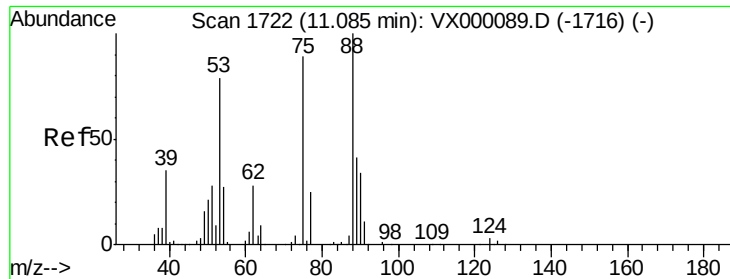
77 1.2 22.8 68.3#



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: 71.41 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000194.D

Acq: 02 Mar 2018 16:27

Instrument :

MSVOA_X

ClientSampleId :

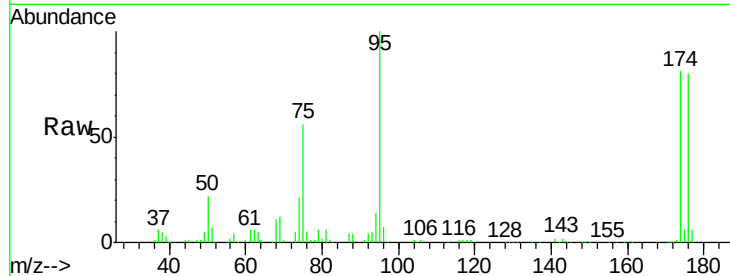
Tot Ion: 75 Resp: 39076

Ion Ratio Lower Upper

75 100

53 0.0 72.3 108.5#

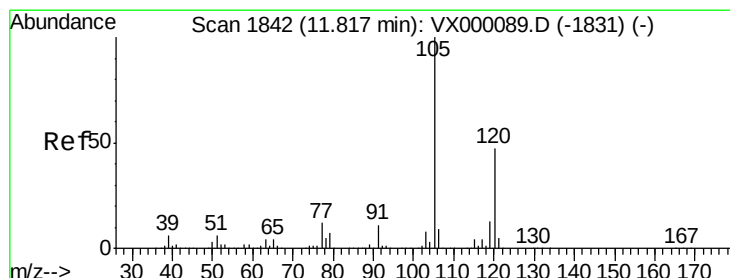
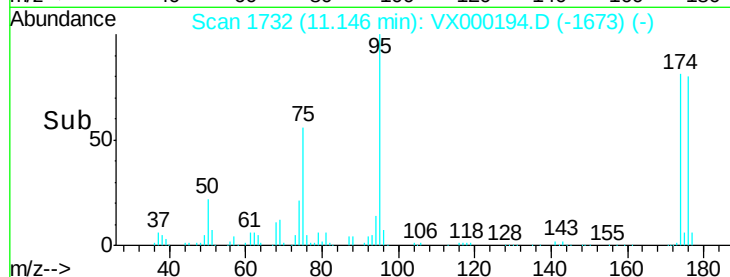
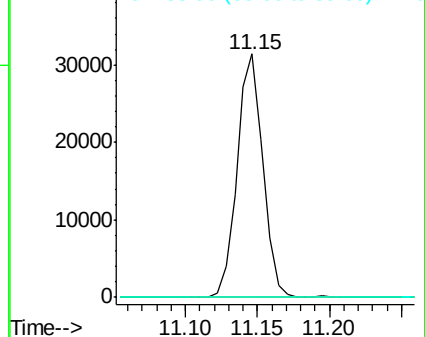
89 0.0 40.6 60.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.41 ug/l

RT: 11.82 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VX000194.D

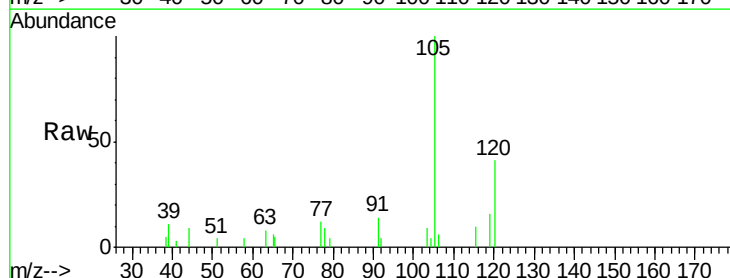
Acq: 02 Mar 2018 16:27

Tgt Ion: 105 Resp: 1695

Ion Ratio Lower Upper

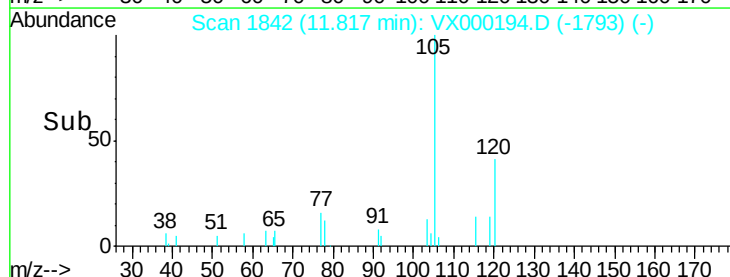
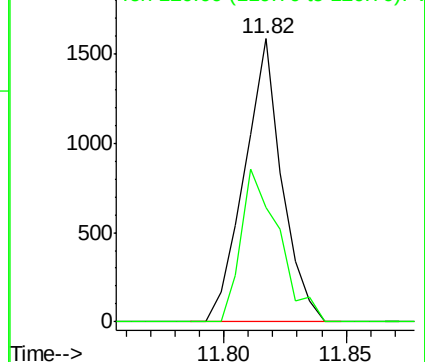
105 100

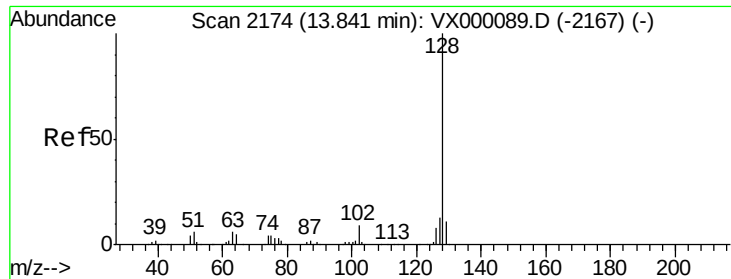
120 54.6 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

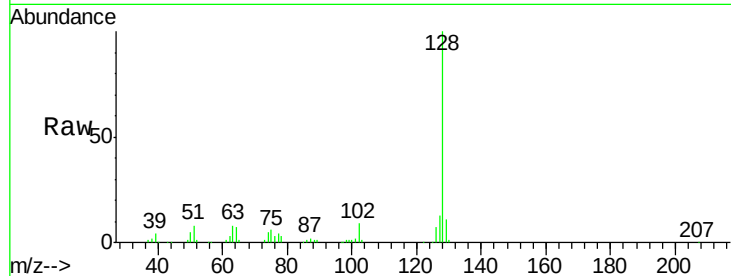




#95
Naphthalene
Concen: 8.35 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.00 min
Lab File: VX000194.D
Acq: 02 Mar 2018 16:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.4	15.6
129	11.0	8.7	13.1



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

