

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101518\
 Data File : VX005351.D
 Acq On : 15 Oct 2018 18:35
 Operator : JC/MD
 Sample : J5198-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 16 03:38:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	256090	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	377415	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	345218	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	168706	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	152100	53.51	ug/l	0.00
Spiked Amount			Recovery	=	107.02%	
35) Dibromofluoromethane	5.51	113	123086	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
50) Toluene-d8	8.71	98	457560	53.32	ug/l	0.00
Spiked Amount			Recovery	=	106.64%	
62) 4-Bromofluorobenzene	11.14	95	148147	45.95	ug/l	0.00
Spiked Amount			Recovery	=	91.90%	

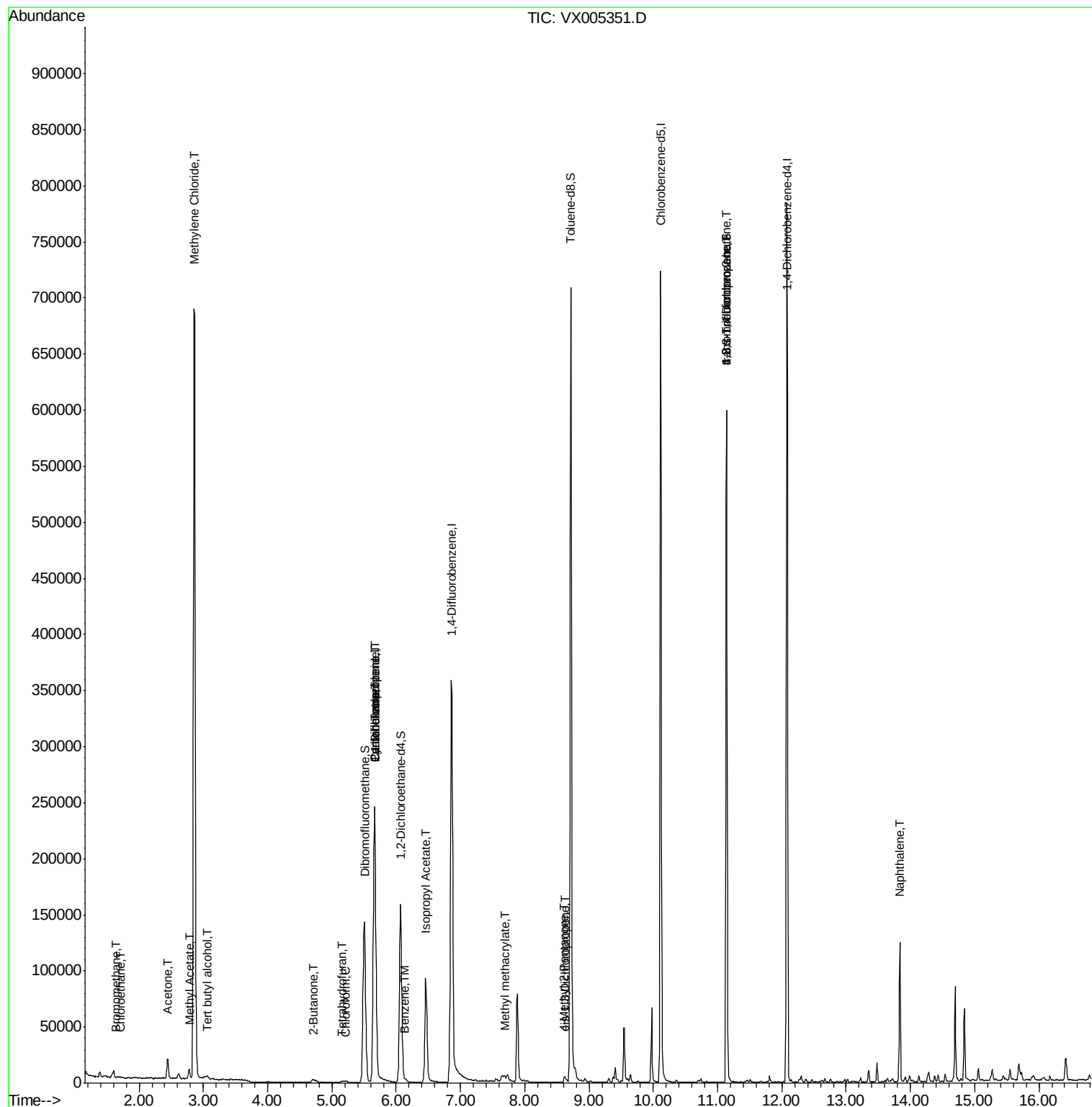
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	214	0.712	ug/l #	3
6) Chloroethane	1.72	64	384	0.534	ug/l #	73
11) Tert butyl alcohol	3.06	59	4523	5.641	ug/l	98
13) Acrolein	2.31	56	75	Below Cal	#	16
16) Acetone	2.45	43	20264	12.331	ug/l	94
18) Methyl Acetate	2.78	43	10465	2.238	ug/l	96
20) Methylene Chloride	2.86	84	319452	135.655	ug/l	97
25) 2-Butanone	4.71	43	5083	2.114	ug/l	99
29) Tetrahydrofuran	5.15	42	630	0.411	ug/l #	38
30) Chloroform	5.22	83	1534	0.349	ug/l #	79
31) Cyclohexane	5.67	56	4497	1.151	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16531	4.523	ug/l #	50
38) Carbon Tetrachloride	5.67	117	22614	6.157	ug/l #	16
40) Benzene	6.14	78	2270	0.207	ug/l	99
43) Isopropyl Acetate	6.46	43	118992	19.003	ug/l	93
44) Trichloroethene	7.22	130	228	Below Cal		88
48) Methyl methacrylate	7.70	41	5138	1.582	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	1651	0.381	ug/l #	34
54) cis-1,3-Dichloropropene	8.63	75	828	0.215	ug/l #	72
76) 1,2,3-Trichloropropane	11.14	75	73370	22.421	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	73370	68.125	ug/l #	10
95) Naphthalene	13.83	128	75966	6.529	ug/l	99

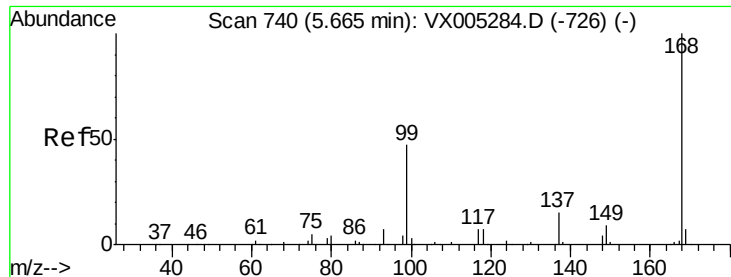
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX005351.D

Acq: 15 Oct 2018 18:35

Instrument :

MSVOA_X

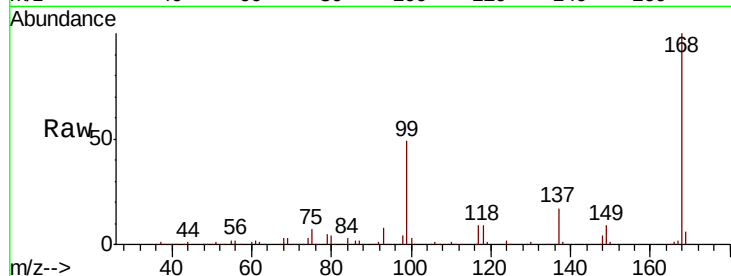
ClientSampleId :

Tot Ion:168 Resp: 256090

Ion Ratio Lower Upper

168 100

99 48.5 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

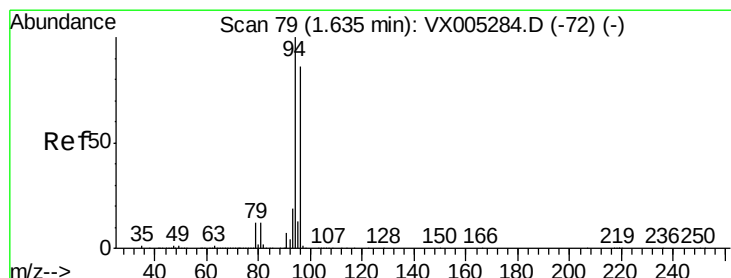
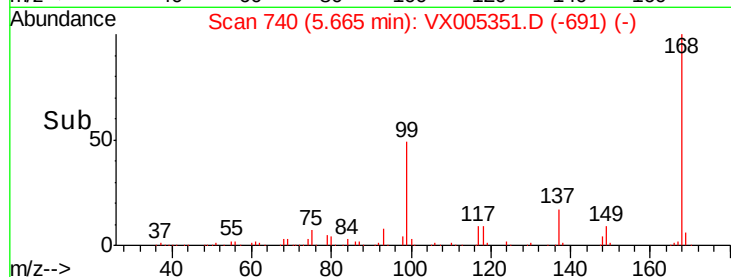
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.712 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005351.D

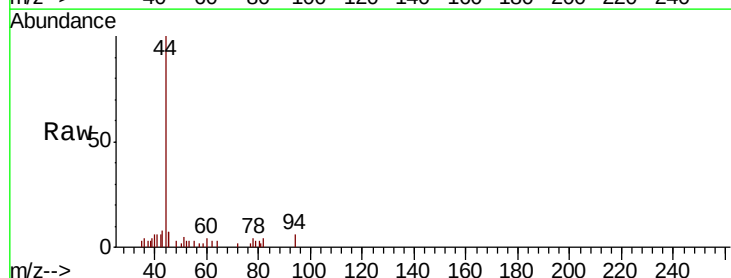
Acq: 15 Oct 2018 18:35

Tgt Ion: 94 Resp: 214

Ion Ratio Lower Upper

94 100

96 0.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

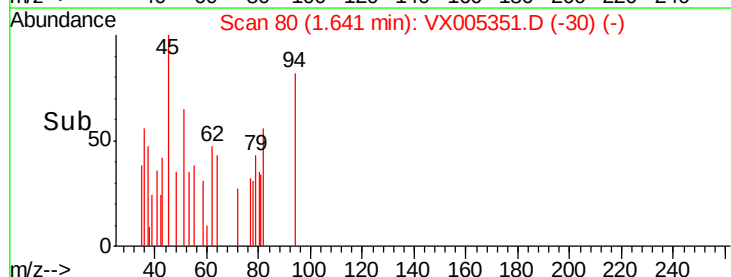
150

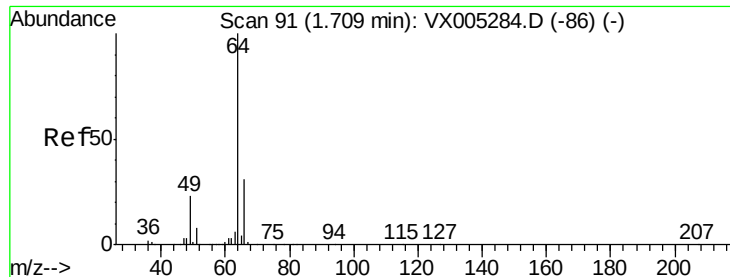
100

50

0

Time--> 1.62 1.64 1.66





#6

Chloroethane

Concen: 0.534 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005351.D

Acq: 15 Oct 2018 18:35

Instrument :

MSVOA_X

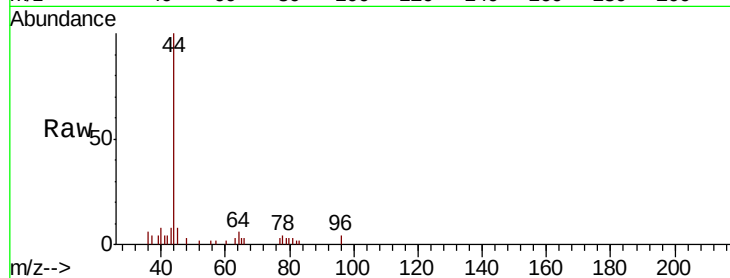
ClientSampled :

Tot Ion: 64 Resp: 384

Ion Ratio Lower Upper

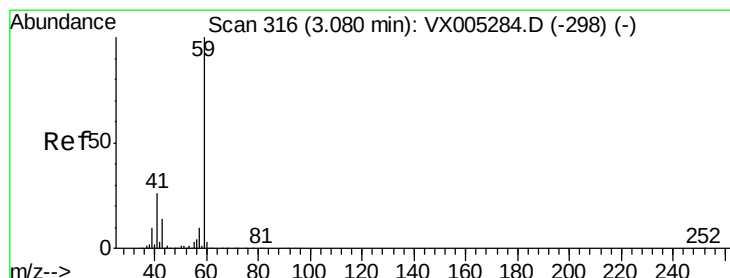
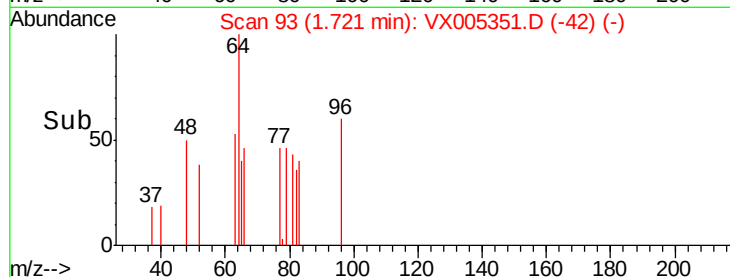
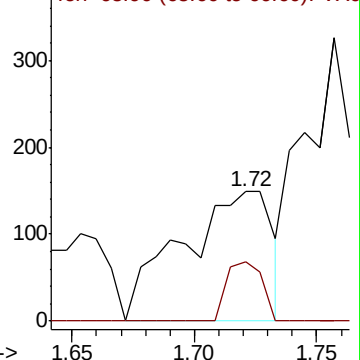
64 100

66 45.6 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 5.641 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX005351.D

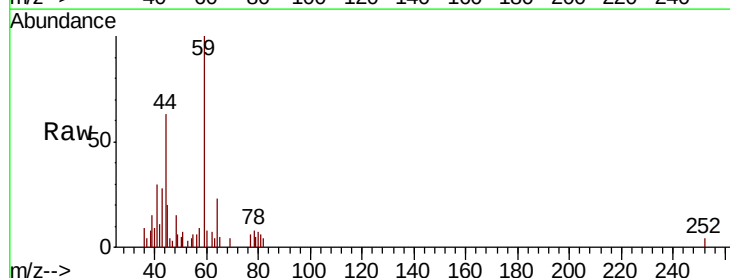
Acq: 15 Oct 2018 18:35

Tgt Ion: 59 Resp: 4523

Ion Ratio Lower Upper

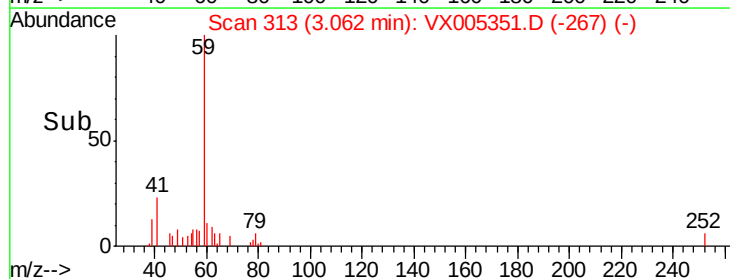
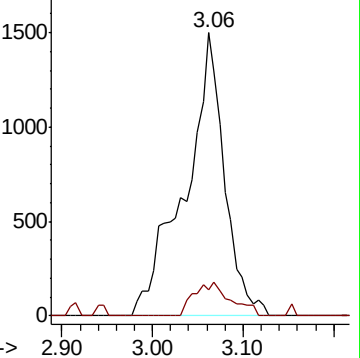
59 100

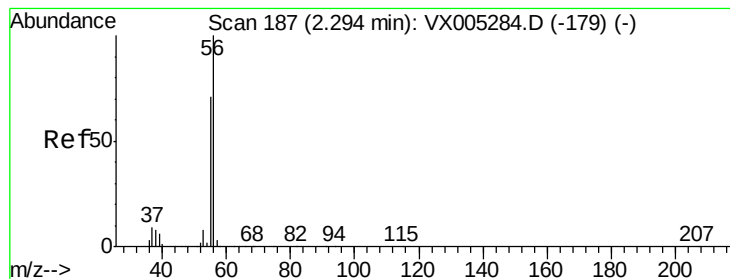
57 11.0 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX005351.D

Acq: 15 Oct 2018 18:35

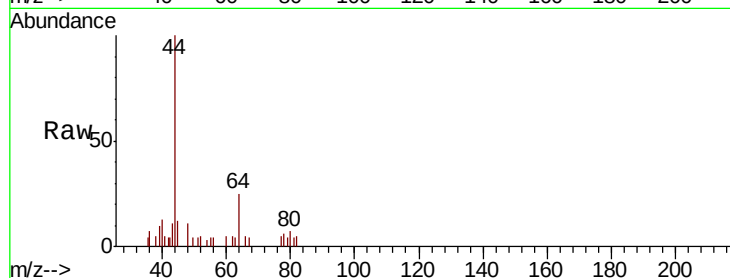
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 75

Ion Ratio Lower Upper

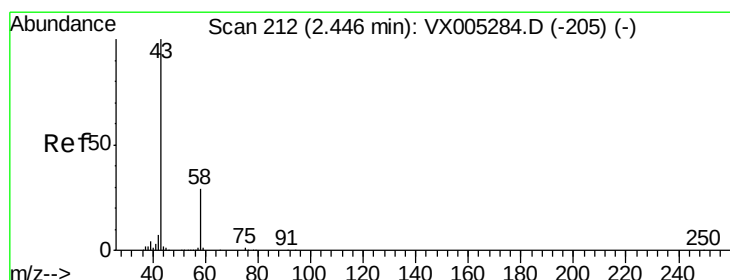
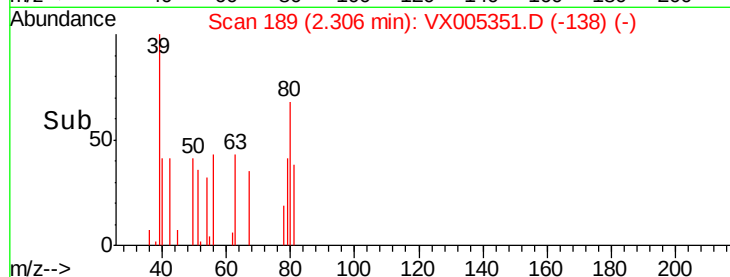
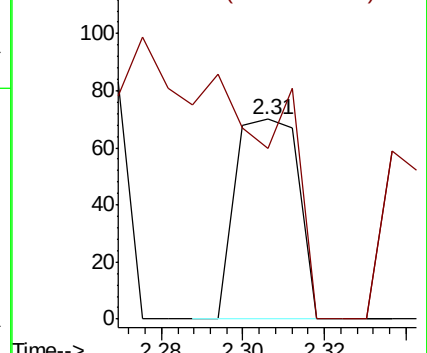
56 100

55 0.0 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 12.331 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005351.D

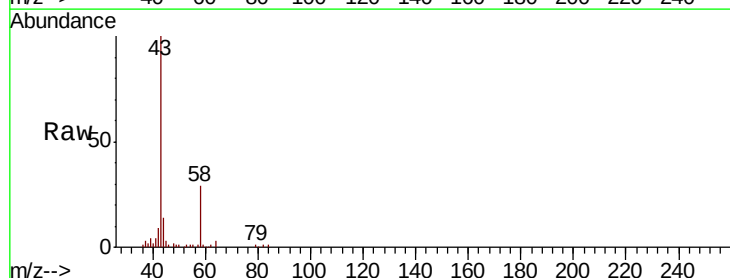
Acq: 15 Oct 2018 18:35

Tgt Ion: 43 Resp: 20264

Ion Ratio Lower Upper

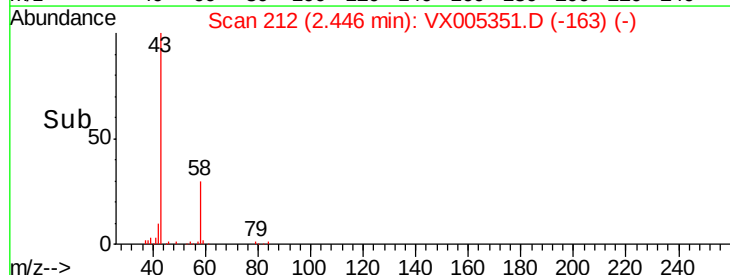
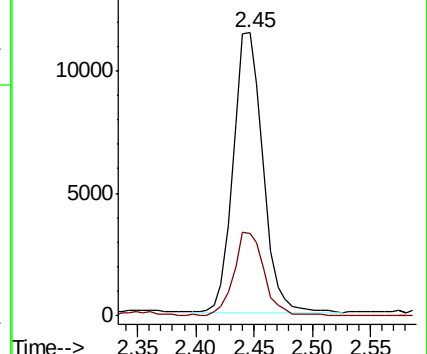
43 100

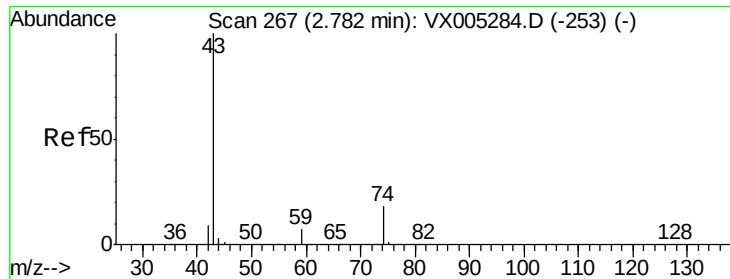
58 29.5 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

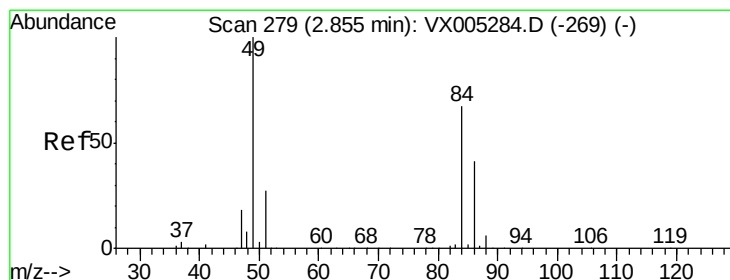
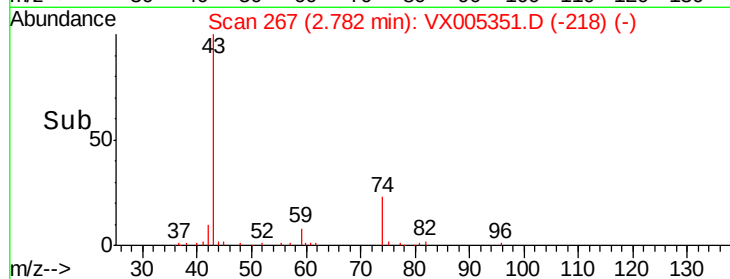
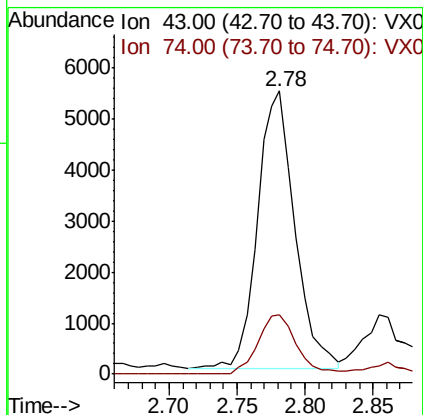
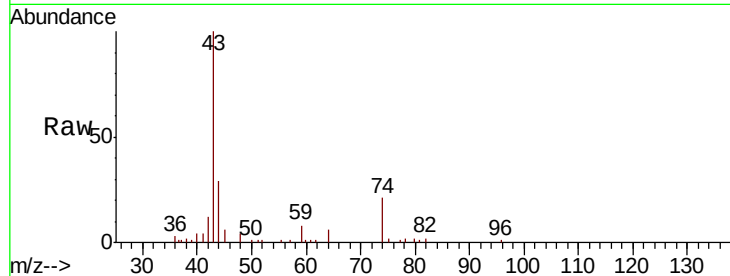




#18
Methvl Acetate
Concen: 2.238 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX005351.D
Acq: 15 Oct 2018 18:35

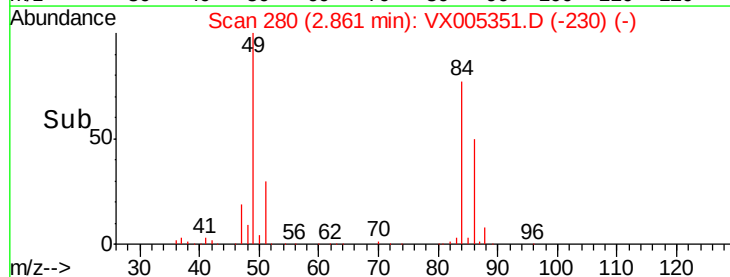
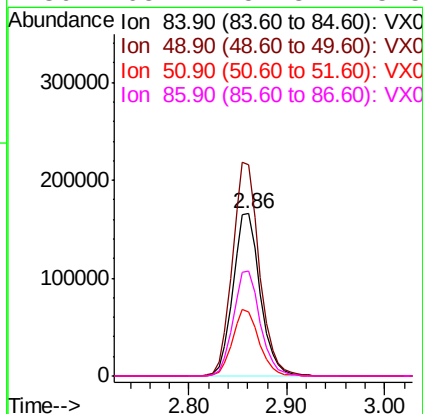
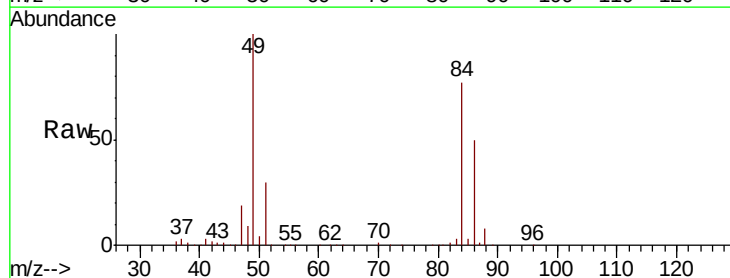
Instrument :
MSVOA_X
ClientSampleId :

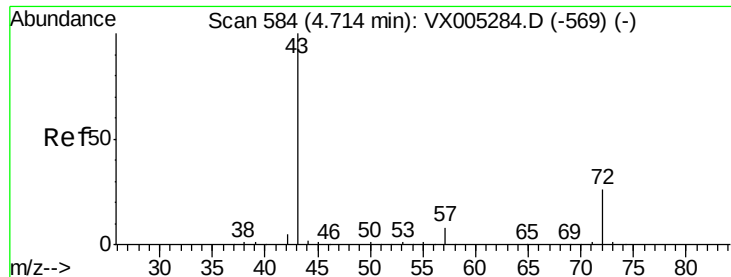
Tot Ion: 43 Resp: 10465
Ion Ratio Lower Upper
43 100
74 22.1 19.4 29.2



#20
Methylene Chloride
Concen: 135.655 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005351.D
Acq: 15 Oct 2018 18:35

Tgt Ion: 84 Resp: 319452
Ion Ratio Lower Upper
84 100
49 130.1 101.2 151.8
51 39.5 29.5 44.3
86 65.2 52.3 78.5





#25

2-Butanone

Concen: 2.114 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.01 min

Lab File: VX005351.D

Acq: 15 Oct 2018 18:35

Instrument :

MSVOA_X

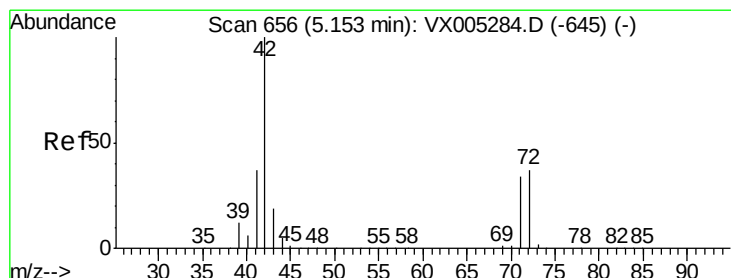
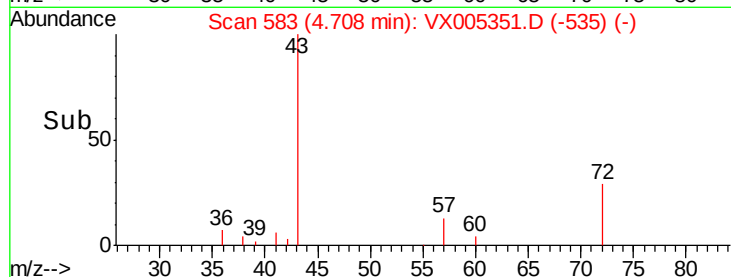
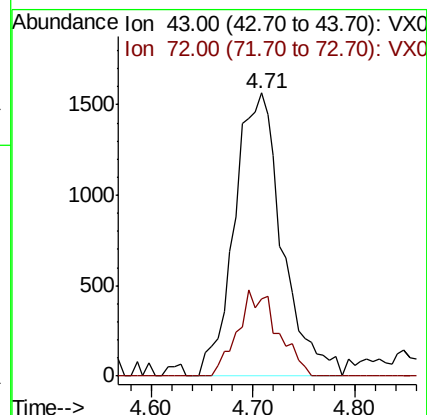
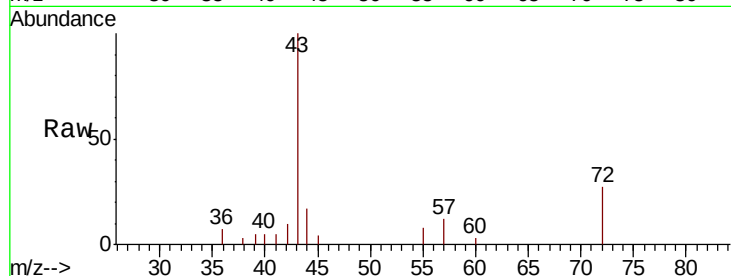
ClientSampleId :

Tot Ion: 43 Resp: 5083

Ion Ratio Lower Upper

43 100

72 27.2 22.0 33.0



#29

Tetrahydrofuran

Concen: 0.411 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX005351.D

Acq: 15 Oct 2018 18:35

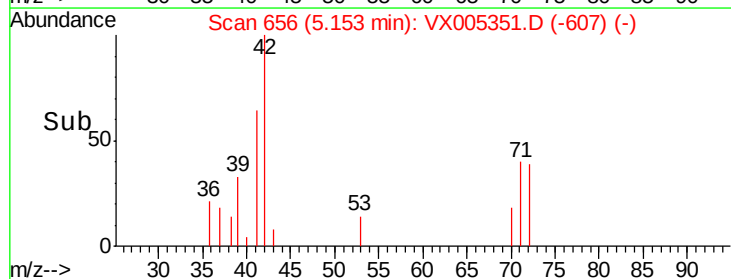
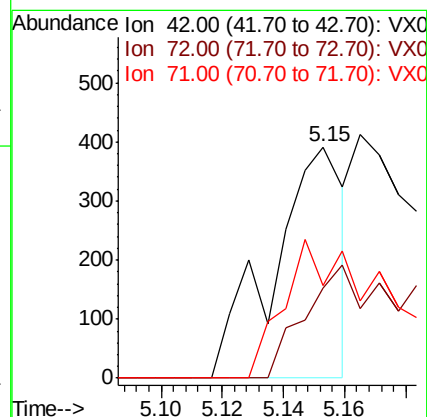
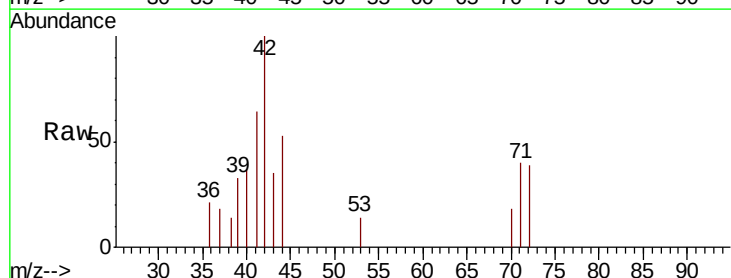
Tgt Ion: 42 Resp: 630

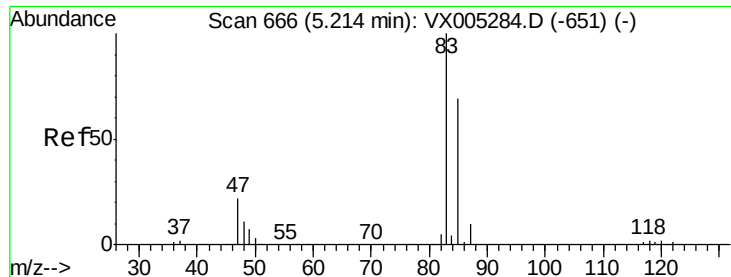
Ion Ratio Lower Upper

42 100

72 76.8 37.4 56.0#

71 94.4 34.5 51.7#

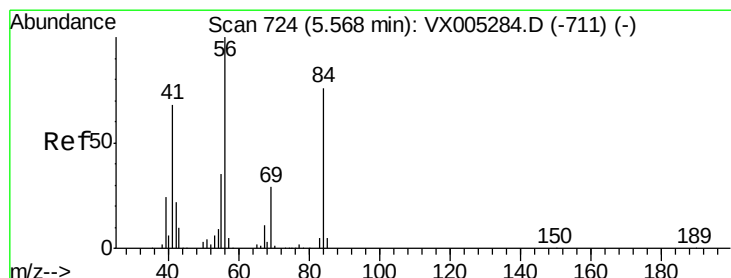
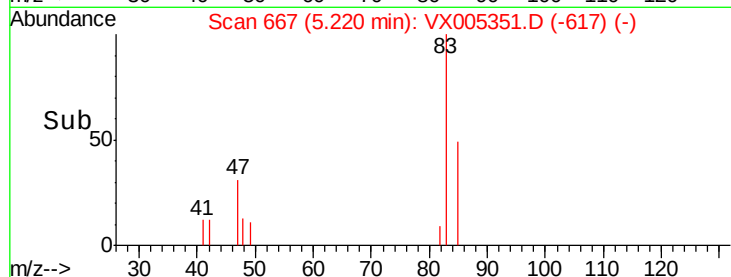
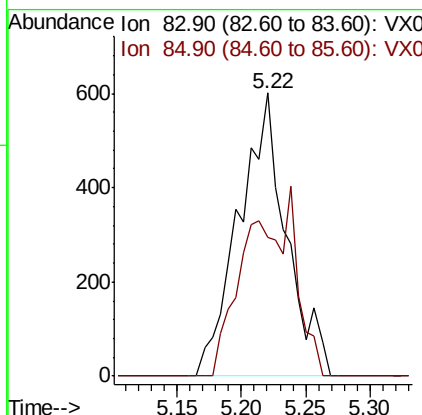
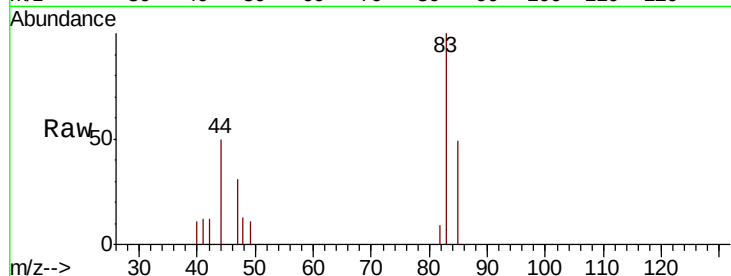




#30
Chloroform
Concen: 0.349 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX005351.D
Acq: 15 Oct 2018 18:35

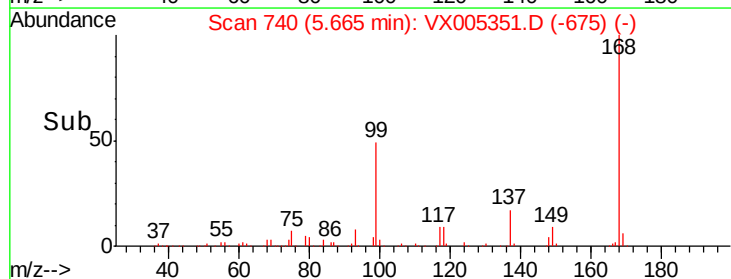
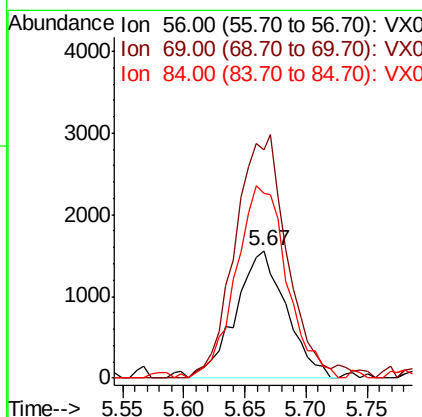
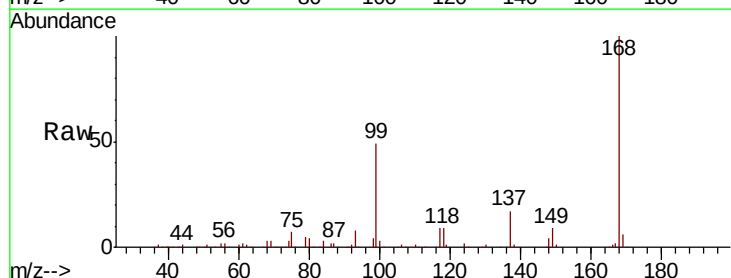
Instrument :
MSVOA_X
ClientSampleId :

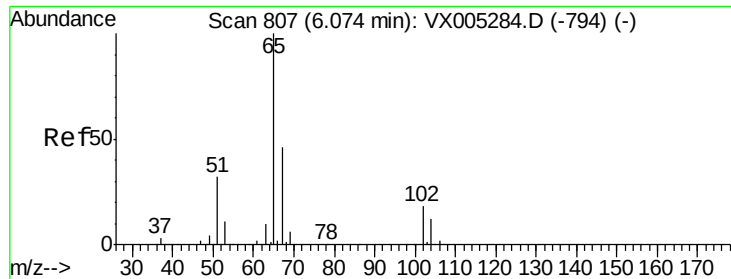
Tot Ion: 83 Resp: 1534
Ion Ratio Lower Upper
83 100
85 49.1 52.6 79.0#



#31
Cyclohexane
Concen: 1.151 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.10 min
Lab File: VX005351.D
Acq: 15 Oct 2018 18:35

Tgt Ion: 56 Resp: 4497
Ion Ratio Lower Upper
56 100
69 178.9 25.4 38.2#
84 144.1 71.4 107.2#

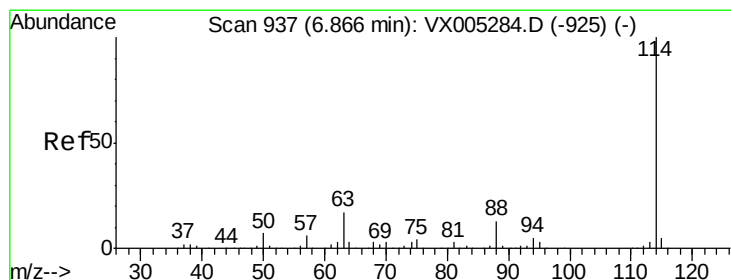
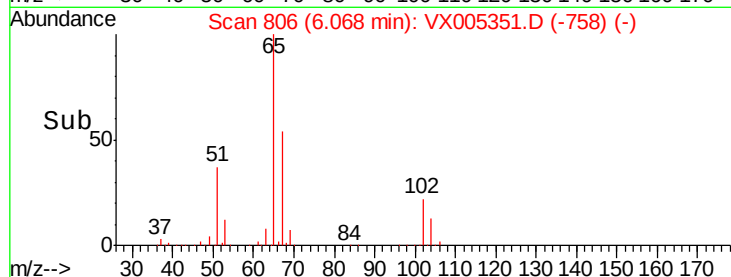
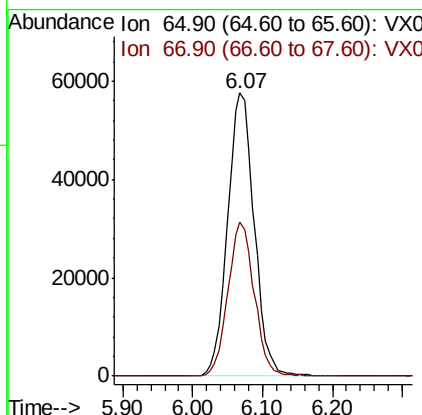
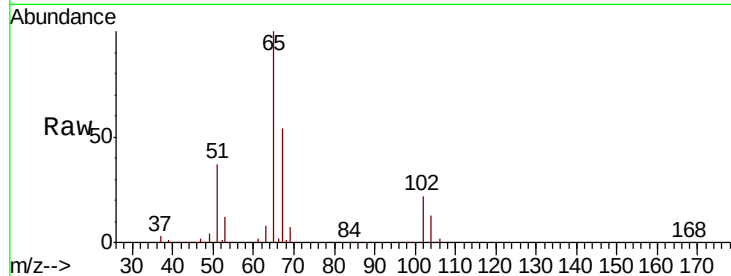




#33
 1,2-Dichloroethane-d4
 Concen: 53.515 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX005351.D
 Acq: 15 Oct 2018 18:35

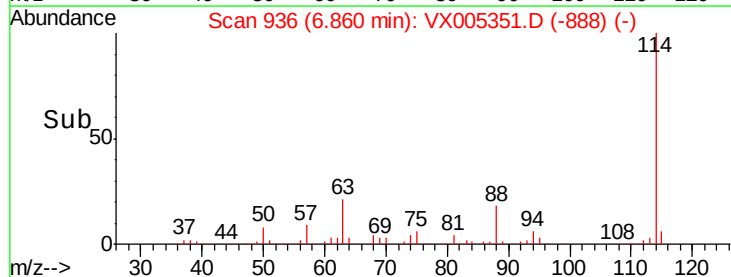
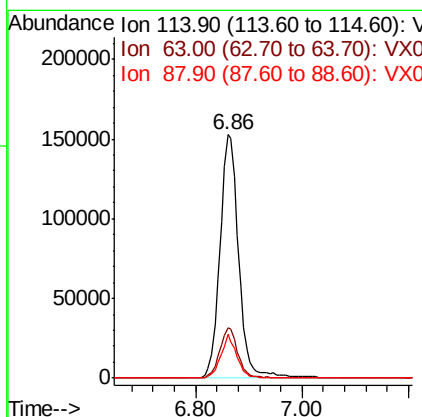
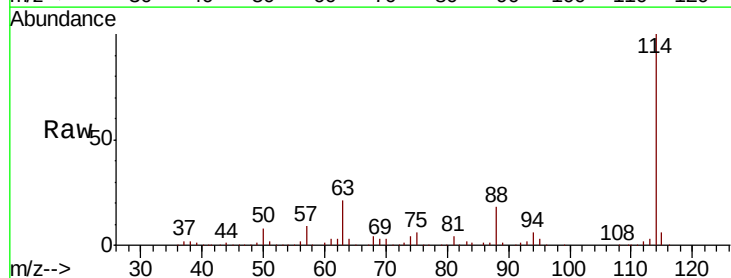
Instrument :
 MSVOA_X
 ClientSampleId :

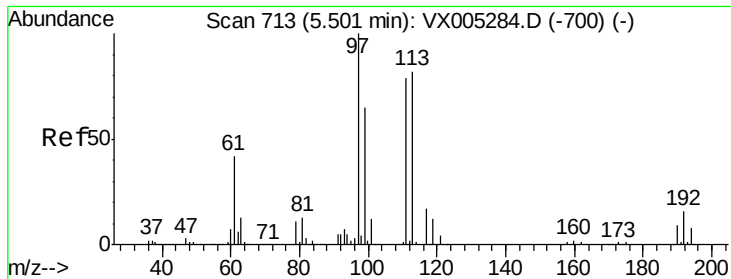
Tot Ion: 65 Resp: 152100
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005351.D
 Acq: 15 Oct 2018 18:35

Tgt Ion: 114 Resp: 377415
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 39.0
 88 18.1 0.0 30.4

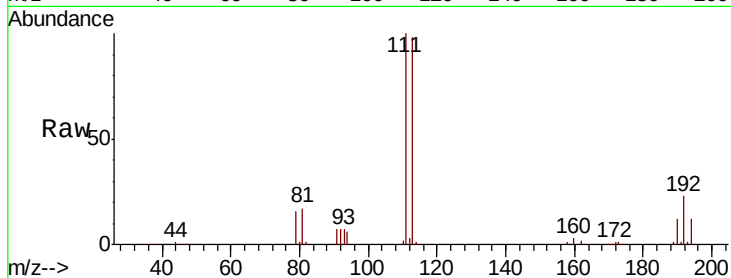




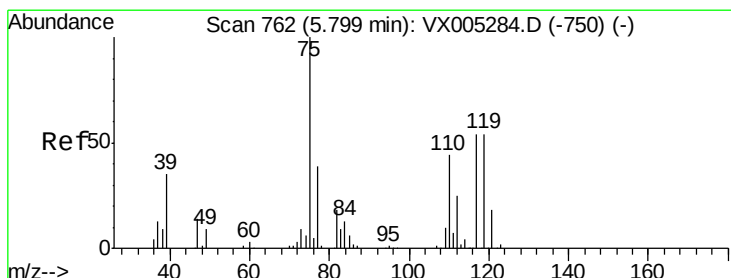
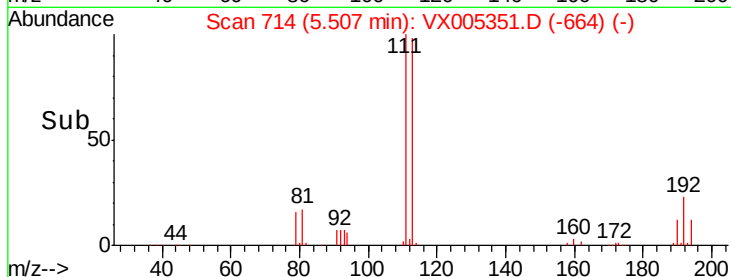
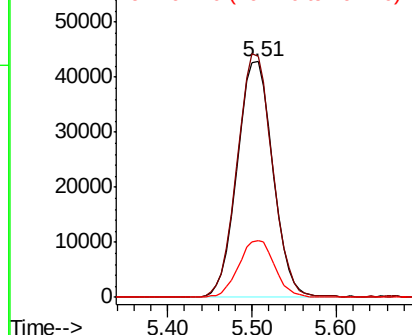
#35
 Dibromofluoromethane
 Concen: 49.240 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005351.D
 Acq: 15 Oct 2018 18:35

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:113 Resp: 123086
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.4 123.6
 192 24.3 19.4 29.2

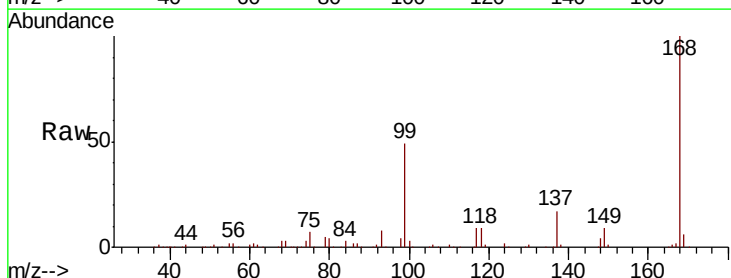


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

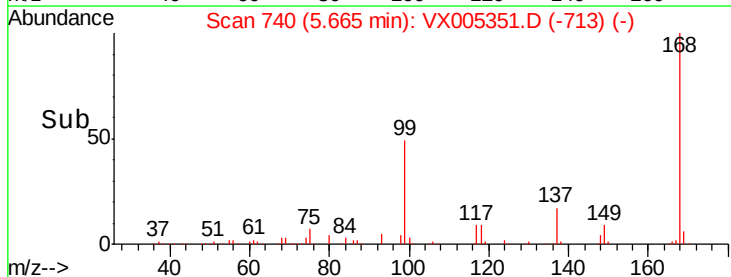
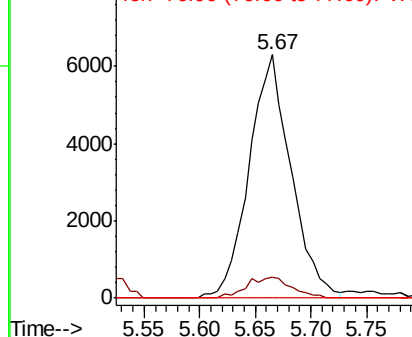


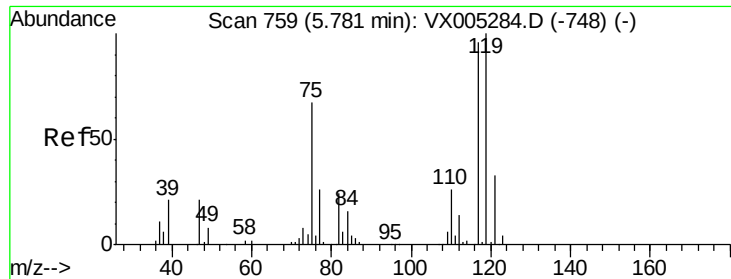
#36
 1,1-Dichloropropene
 Concen: 4.523 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005351.D
 Acq: 15 Oct 2018 18:35

Tgt Ion: 75 Resp: 16531
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.0 54.0#
 77 0.0 24.6 36.8#



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: 6.157 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005351.D

Acq: 15 Oct 2018 18:35

Instrument :

MSVOA_X

ClientSampled :

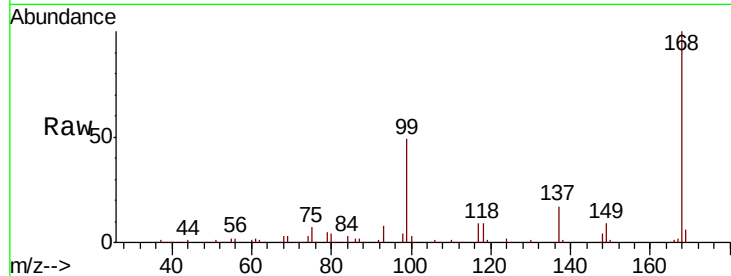
Tot Ion:117 Resp: 22614

Ion Ratio Lower Upper

117 100

119 6.4 78.8 118.2#

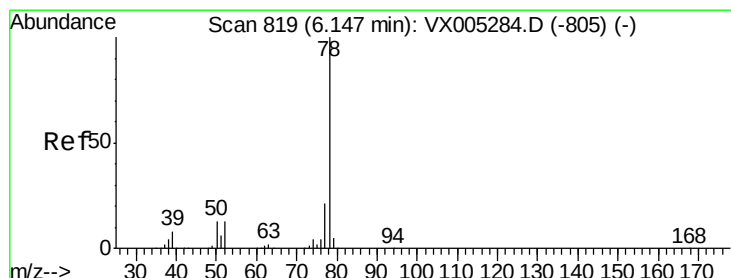
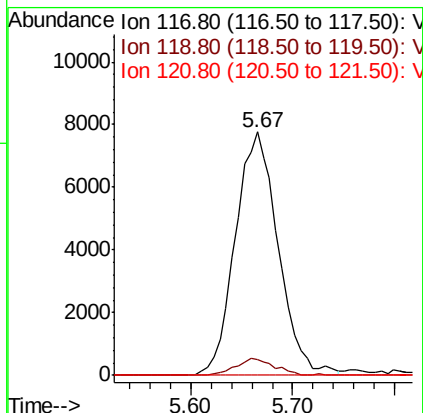
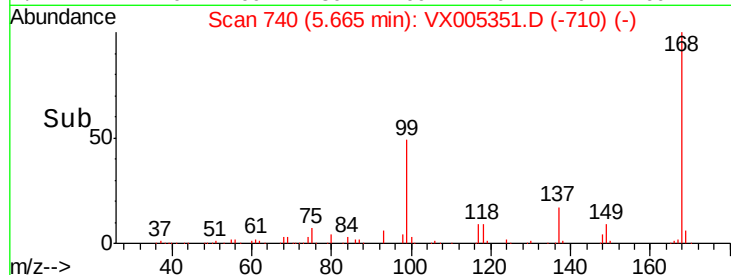
121 0.0 24.9 37.3#



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: 0.207 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.01 min

Lab File: VX005351.D

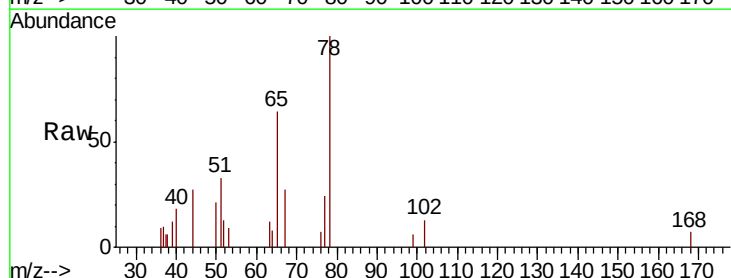
Acq: 15 Oct 2018 18:35

Tgt Ion: 78 Resp: 2270

Ion Ratio Lower Upper

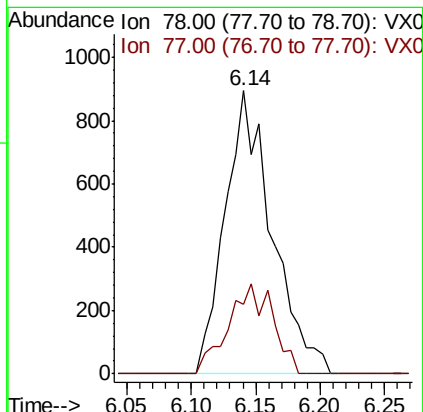
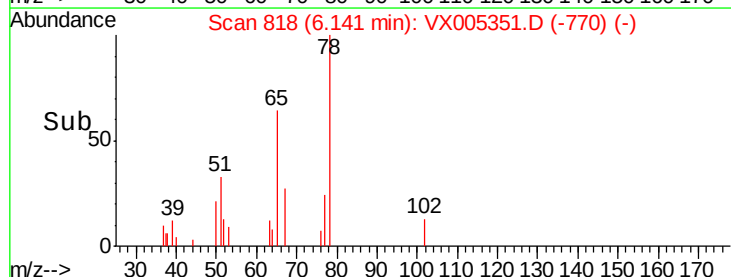
78 100

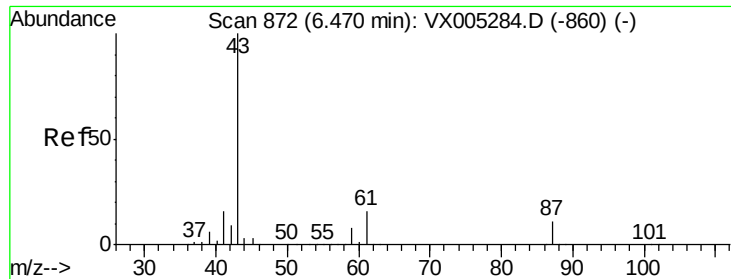
77 24.4 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#43

Isopropyl Acetate

Concen: 19.003 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.01 min

Lab File: VX005351.D

Acq: 15 Oct 2018 18:35

Instrument :

MSVOA_X

ClientSampleId :

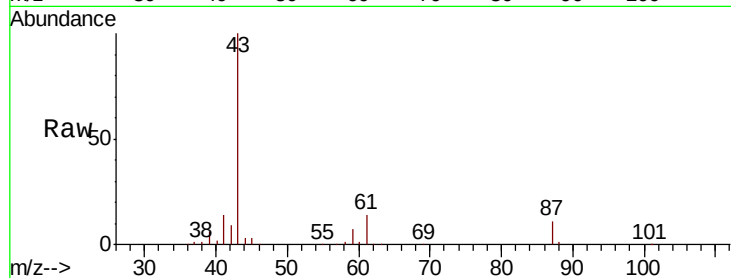
Tot Ion: 43 Resp: 118992

Ion Ratio Lower Upper

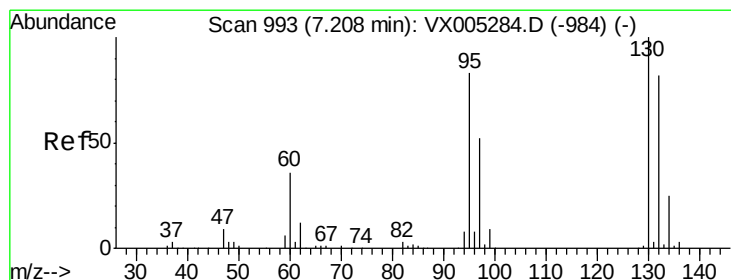
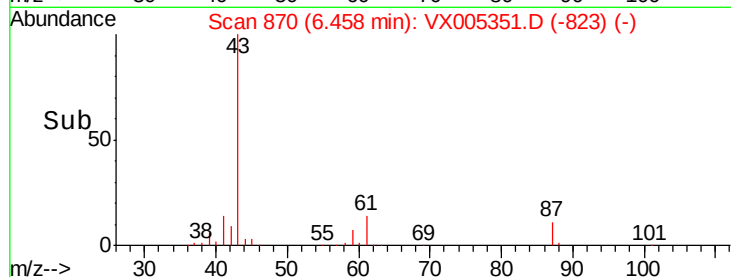
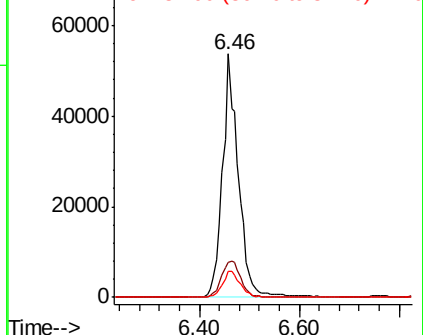
43 100

61 17.9 17.0 25.4

87 11.8 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



#44

Trichloroethene

Concen: Below Cal

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX005351.D

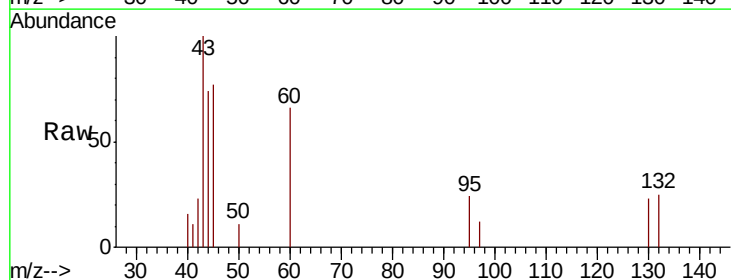
Acq: 15 Oct 2018 18:35

Tgt Ion:130 Resp: 228

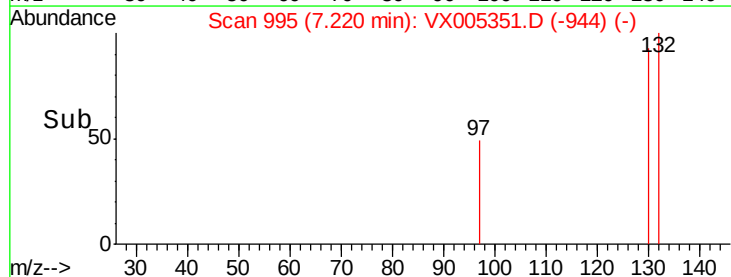
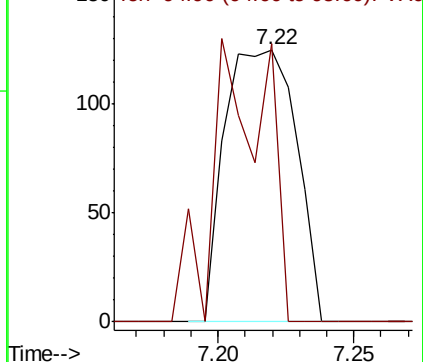
Ion Ratio Lower Upper

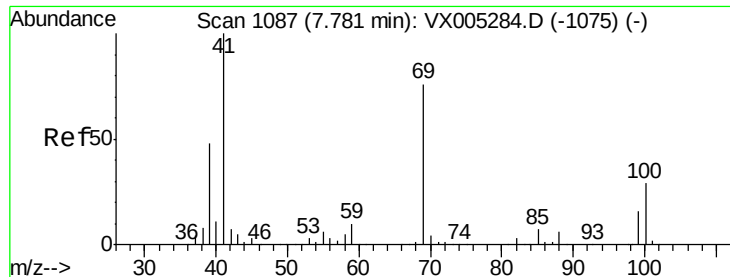
130 100

95 102.4 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0

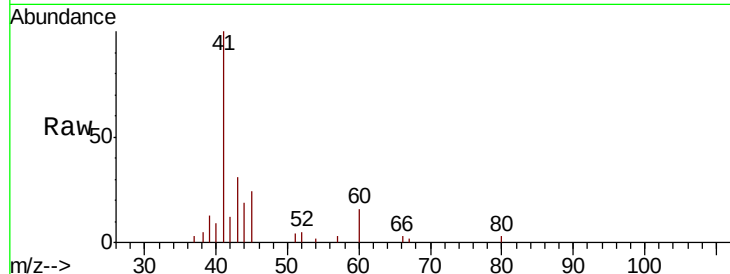




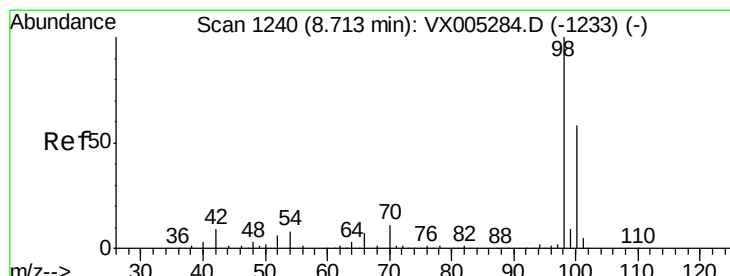
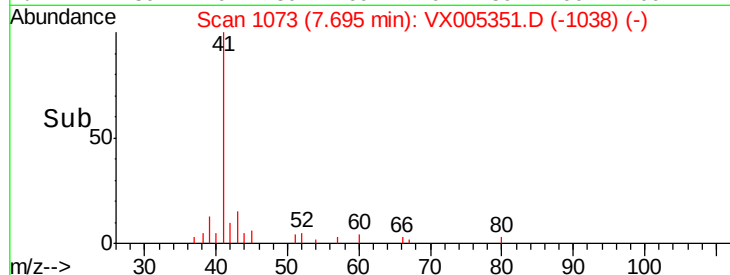
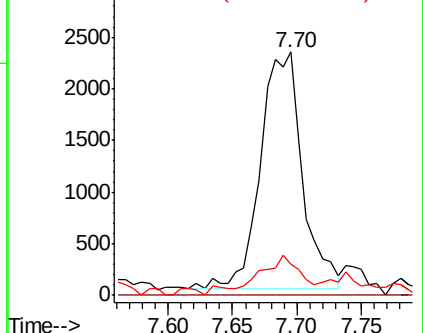
#48
Methvl methacrylate
Concen: 1.582 ug/l
RT: 7.70 min Scan# 1073
Delta R.T. -0.09 min
Lab File: VX005351.D
Acq: 15 Oct 2018 18:35

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 41 Resp: 5138
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 13.2 42.7 64.1#

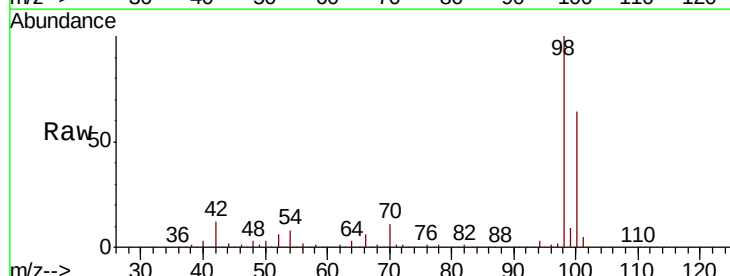


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

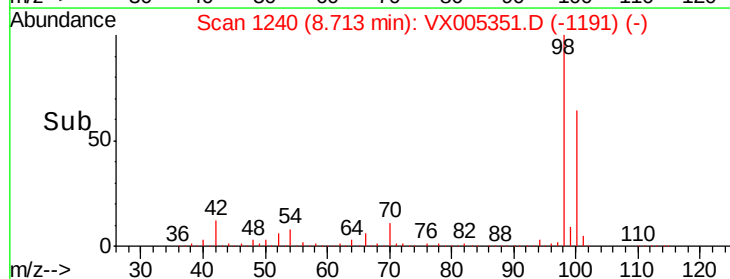
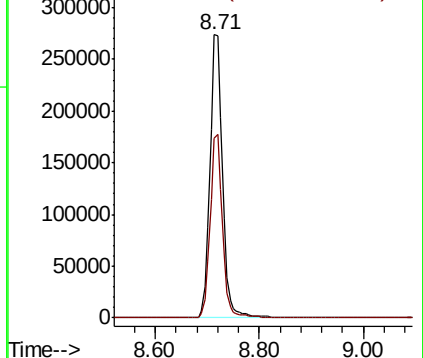


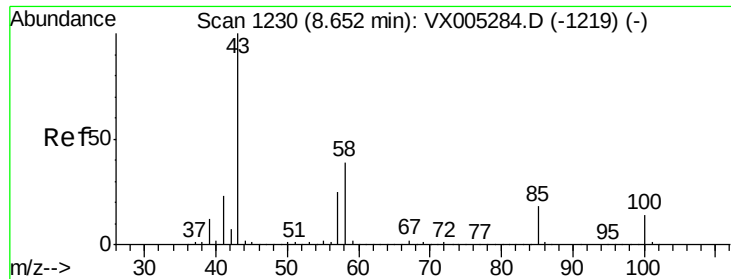
#50
Toluene-d8
Concen: 53.318 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005351.D
Acq: 15 Oct 2018 18:35

Tgt Ion: 98 Resp: 457560
Ion Ratio Lower Upper
98 100
100 63.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.381 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005351.D

Acq: 15 Oct 2018 18:35

Instrument :

MSVOA_X

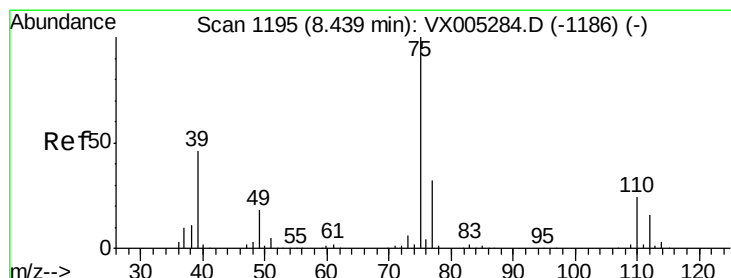
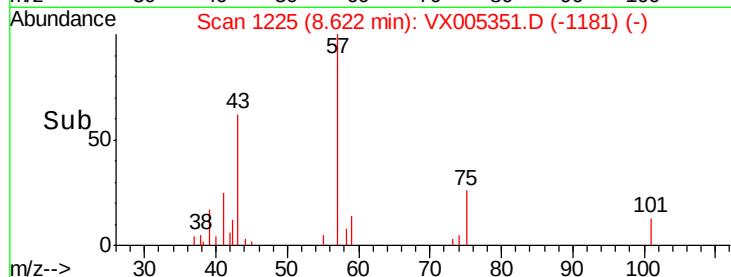
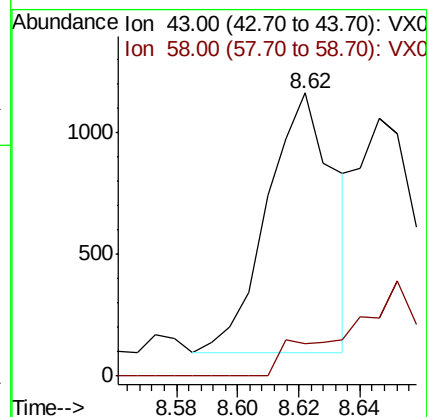
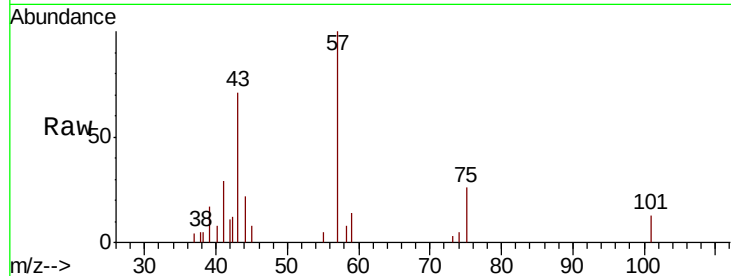
ClientSampled :

Tot Ion: 43 Resp: 1651

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



#54

cis-1,3-Dichloropropene

Concen: 0.215 ug/l

RT: 8.63 min Scan# 1226

Delta R.T. 0.19 min

Lab File: VX005351.D

Acq: 15 Oct 2018 18:35

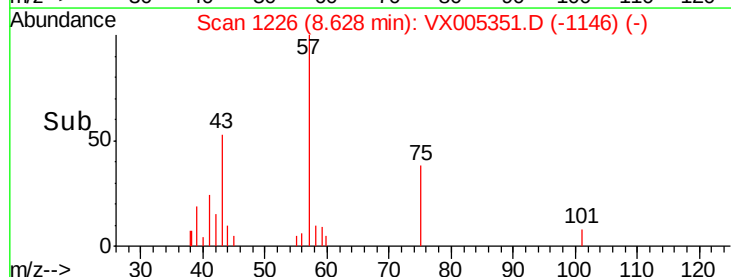
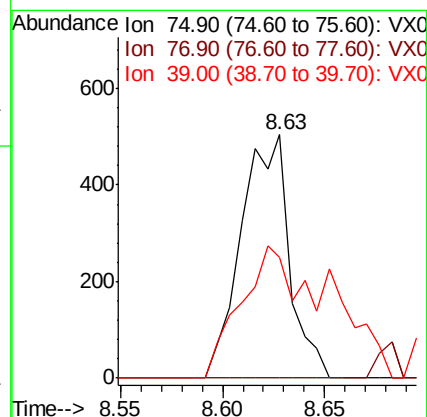
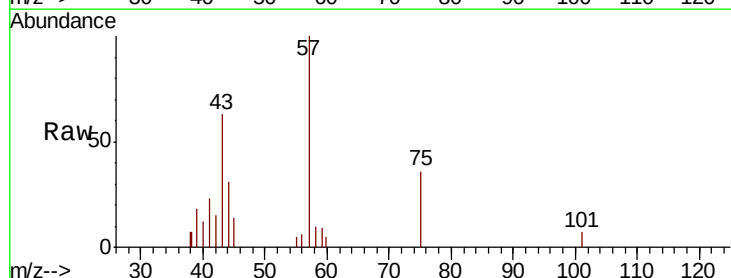
Tgt Ion: 75 Resp: 828

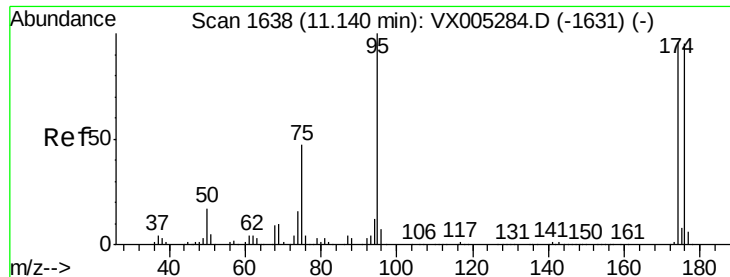
Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

39 49.4 36.4 54.6

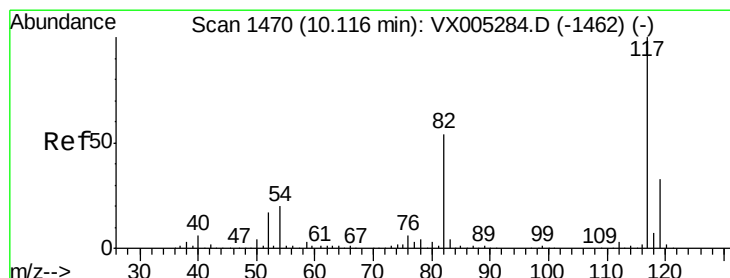
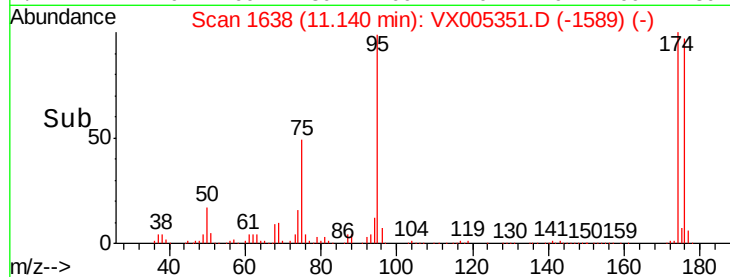
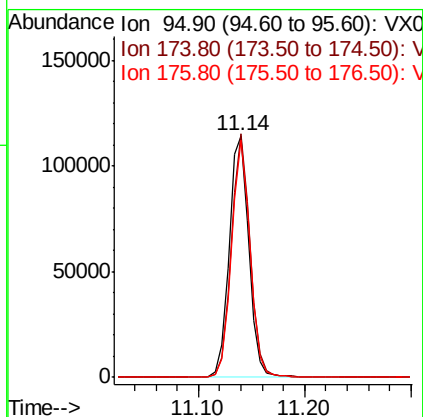
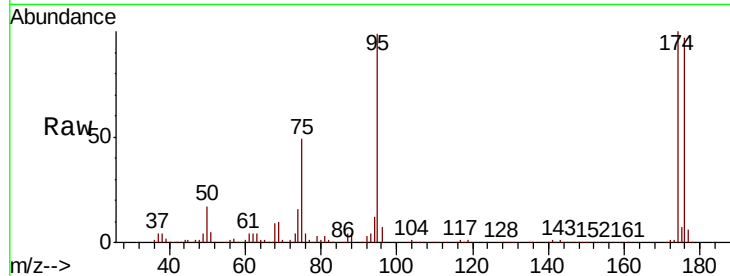




#62
4-Bromofluorobenzene
Concen: 45.954 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005351.D
Acq: 15 Oct 2018 18:35

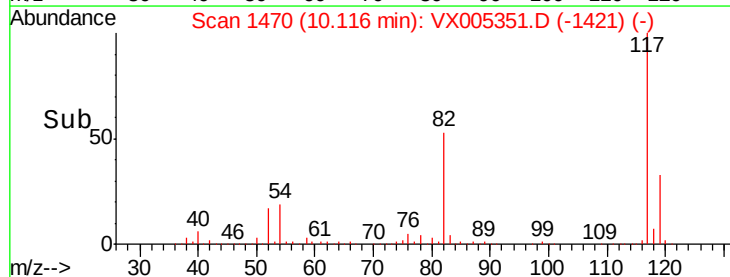
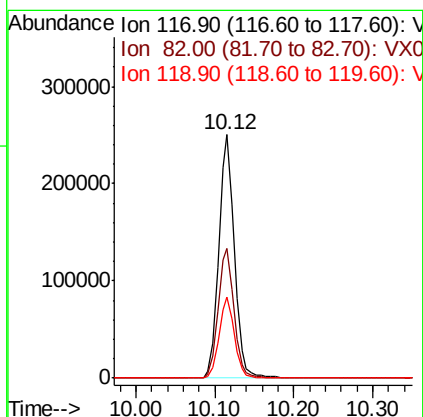
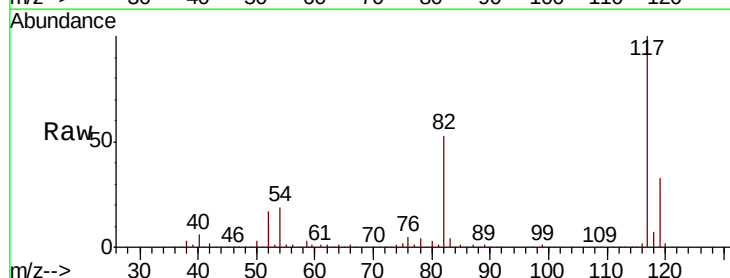
Instrument :
MSVOA_X
ClientSampleId :

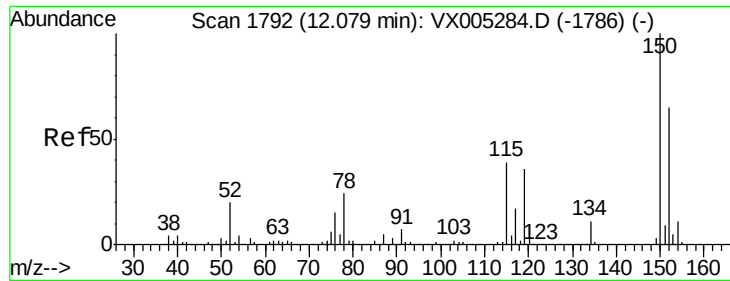
Tot Ion: 95 Resp: 148147
Ion Ratio Lower Upper
95 100
174 96.6 0.0 185.2
176 93.3 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005351.D
Acq: 15 Oct 2018 18:35

Tgt Ion: 117 Resp: 345218
Ion Ratio Lower Upper
117 100
82 53.2 47.8 71.6
119 33.1 29.3 43.9

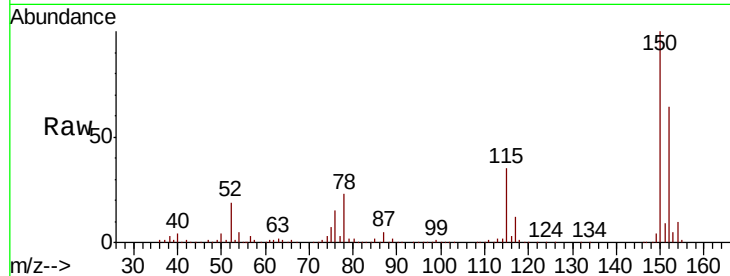




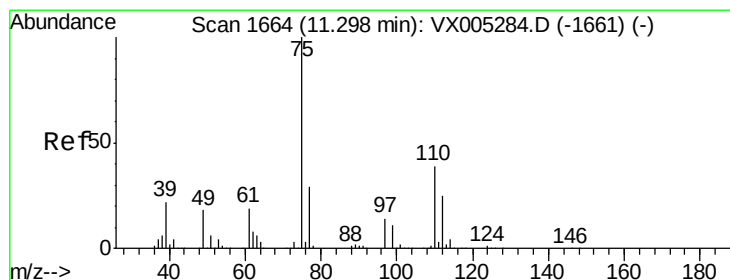
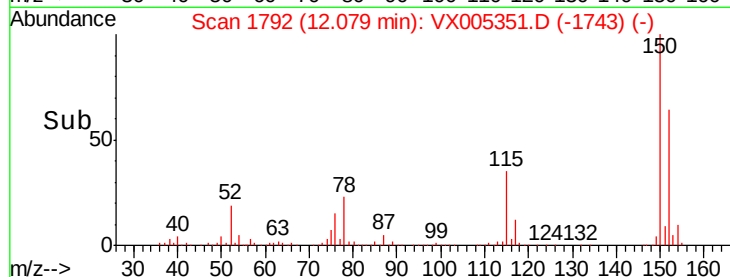
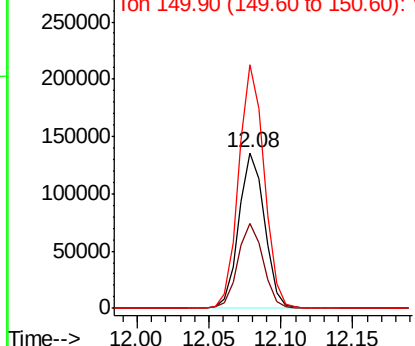
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX005351.D
 Acq: 15 Oct 2018 18:35

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:152 Resp: 168706
 Ion Ratio Lower Upper
 152 100
 115 54.1 39.0 117.0
 150 155.1 0.0 351.0

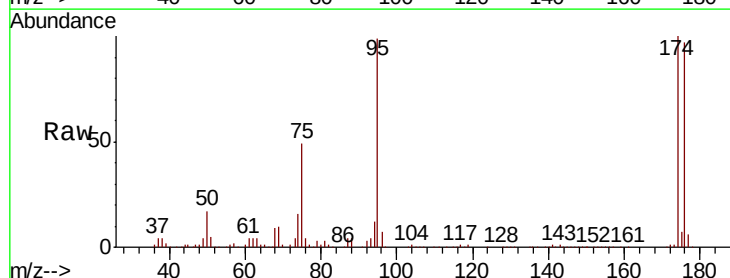


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

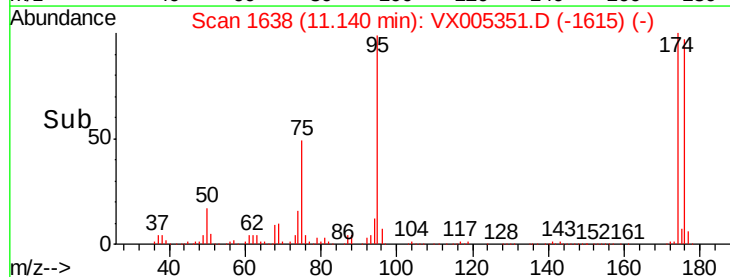
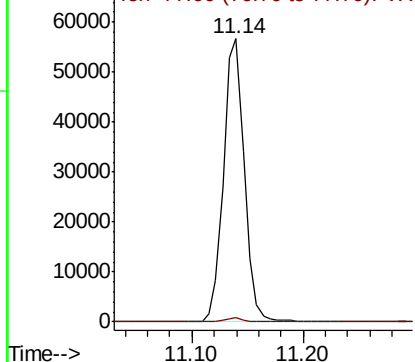


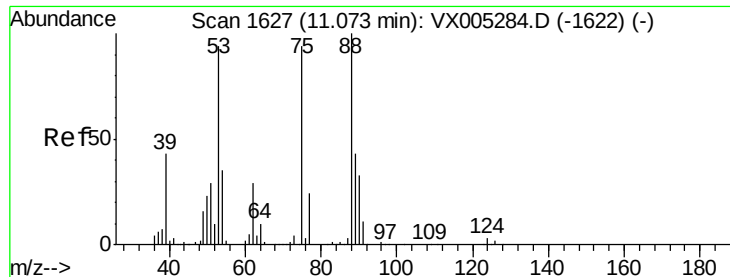
#76
 1,2,3-Trichloropropane
 Concen: 22.421 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005351.D
 Acq: 15 Oct 2018 18:35

Tgt Ion: 75 Resp: 73370
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 77.00 (76.70 to 77.70): VX0

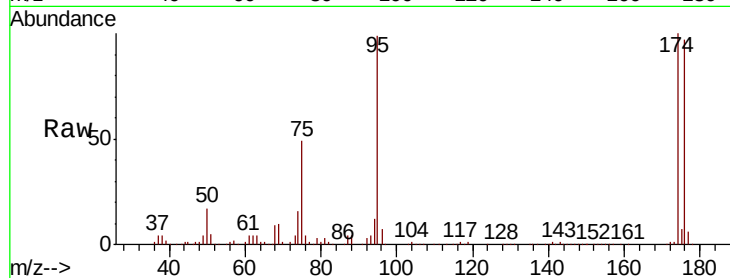




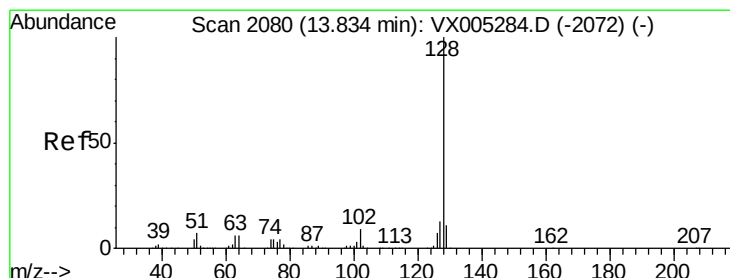
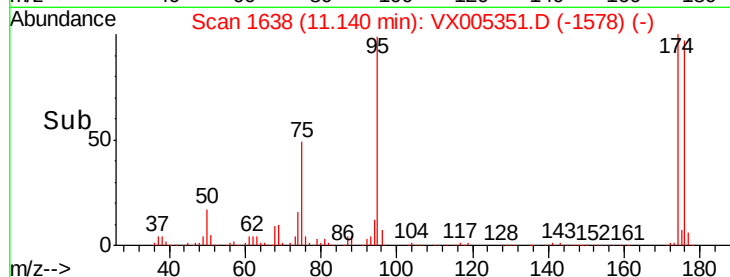
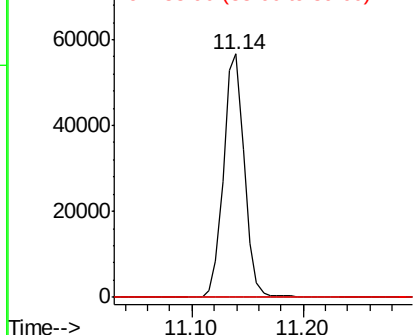
#81
trans-1,4-Dichloro-2-butene
Concen: 68.125 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.07 min
Lab File: VX005351.D
Acq: 15 Oct 2018 18:35

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 73370
Ion Ratio Lower Upper
75 100
53 0.2 80.1 120.1#
89 0.0 37.2 55.8#

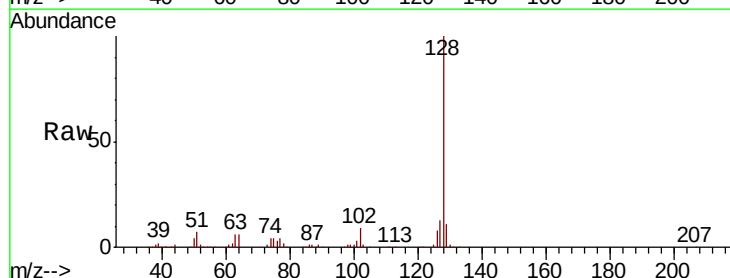


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95
Naphthalene
Concen: 6.529 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX005351.D
Acq: 15 Oct 2018 18:35

Tgt Ion:128 Resp: 75966
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.2
129 11.4 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

