

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091318\
 Data File : VX004516.D
 Acq On : 13 Sep 2018 15:14
 Operator : JC/MD
 Sample : J4883-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 292

Quant Time: Sep 14 03:53:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	253599	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	382199	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	352925	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	197036	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	171408	52.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.84%	
35) Dibromofluoromethane	5.51	113	157607	45.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.12%	
50) Toluene-d8	8.72	98	552143	47.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.16%	
62) 4-Bromofluorobenzene	11.14	95	186691	44.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.18%	

Target Compounds

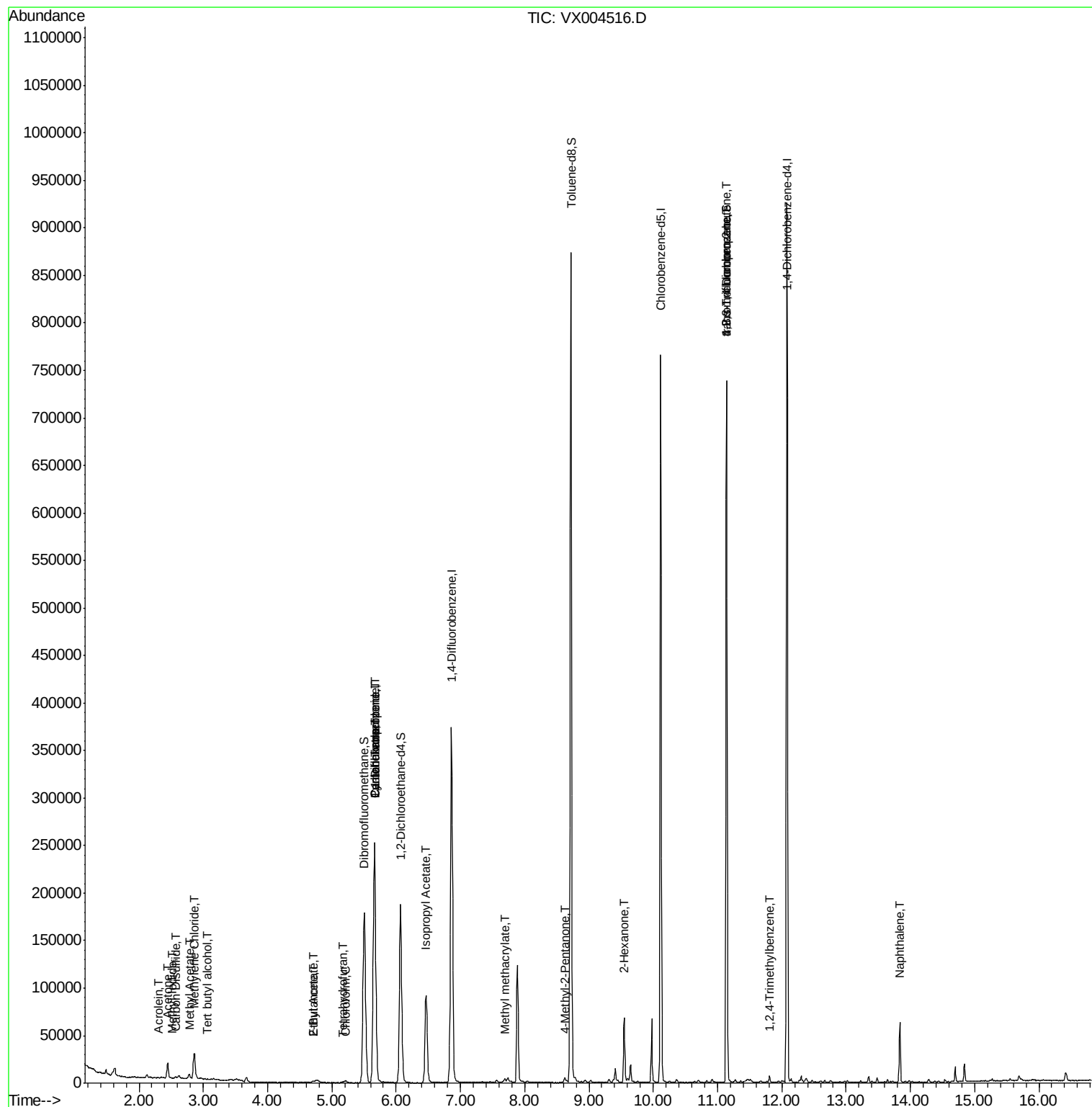
						Qvalue
5) Bromomethane	1.65	94	1048	Below Cal	#	58
10) Methyl Iodide	2.51	142	412	4.37	ug/l #	80
11) Tert butyl alcohol	3.07	59	349	0.45	ug/l	96
13) Acrolein	2.30	56	188	0.61	ug/l #	16
16) Acetone	2.45	43	15871	9.94	ug/l	97
17) Carbon Disulfide	2.57	76	1658	0.22	ug/l #	79
18) Methyl Acetate	2.78	43	5128	1.15	ug/l	99
20) Methylene Chloride	2.86	84	13581	4.15	ug/l	95
25) 2-Butanone	4.71	43	3206	1.26	ug/l #	82
29) Tetrahydrofuran	5.17	42	600	0.39	ug/l	97
30) Chloroform	5.21	83	2089	0.39	ug/l	92
31) Cyclohexane	5.66	56	4283	0.91	ug/l #	10
36) 1,1-Dichloropropene	5.67	75	16863	3.63	ug/l #	49
37) Ethyl Acetate	4.71	43	3206	0.61	ug/l #	67
38) Carbon Tetrachloride	5.66	117	22757	5.02	ug/l #	15
43) Isopropyl Acetate	6.46	43	120357	17.17	ug/l	99
48) Methyl methacrylate	7.69	41	5011	1.44	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	1737	0.35	ug/l #	52
59) 2-Hexanone	9.55	43	6858	1.81	ug/l #	58
76) 1,2,3-Trichloropropane	11.14	75	87165	21.99	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	87165	70.09	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	3091	0.28	ug/l	97
95) Naphthalene	13.83	128	40682	3.02	ug/l	99

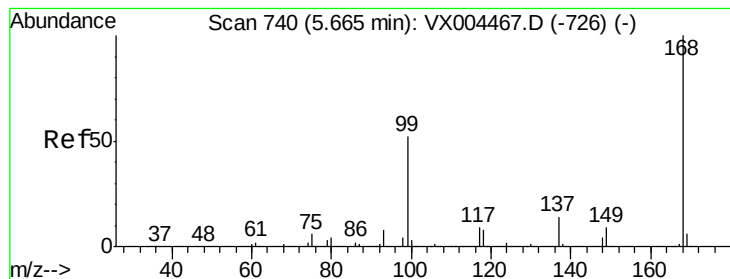
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 14 03:53:55 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004516.D

Acq: 13 Sep 2018 15:14

Instrument :

MSVOA_X

ClientSampleId :

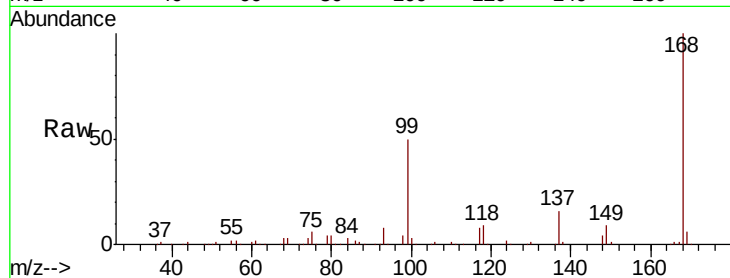
292

Tot Ion:168 Resp: 253599

Ion Ratio Lower Upper

168 100

99 50.0 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

100000

80000

60000

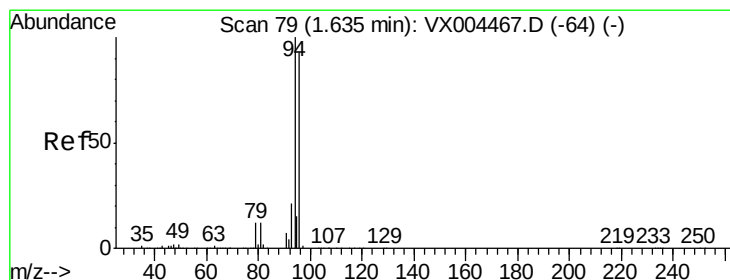
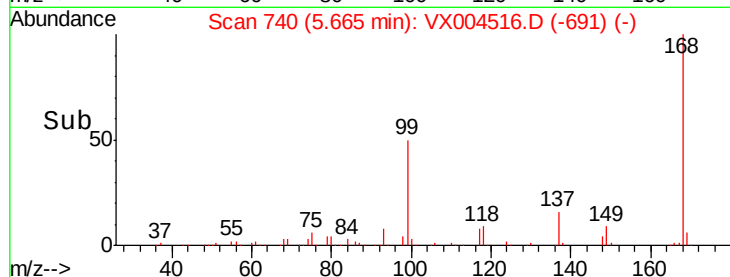
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004516.D

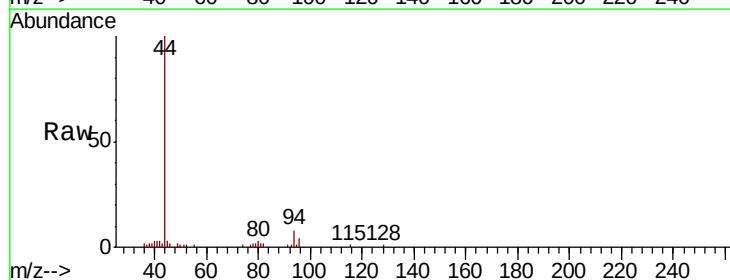
Acq: 13 Sep 2018 15:14

Tgt Ion: 94 Resp: 1048

Ion Ratio Lower Upper

94 100

96 52.7 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

300

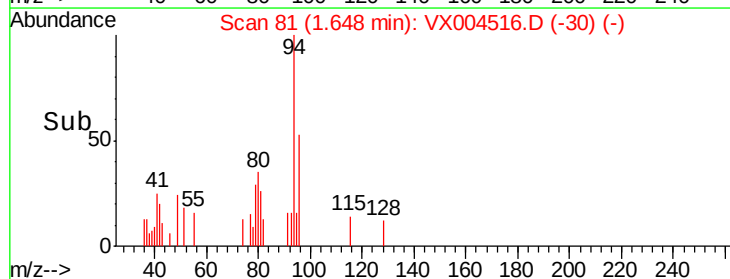
200

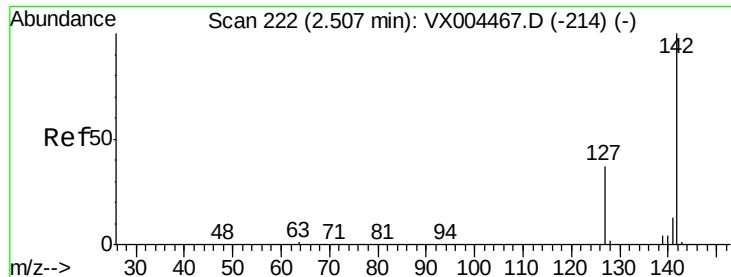
100

0

Time-->

1.55 1.60 1.65 1.70

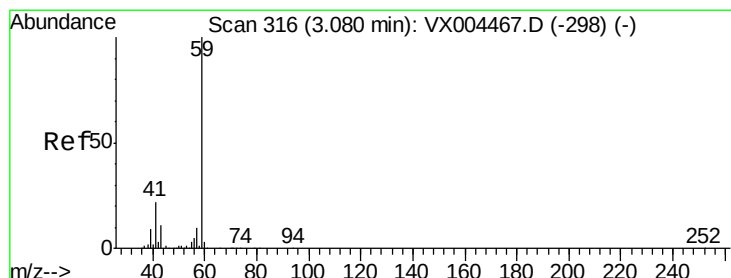
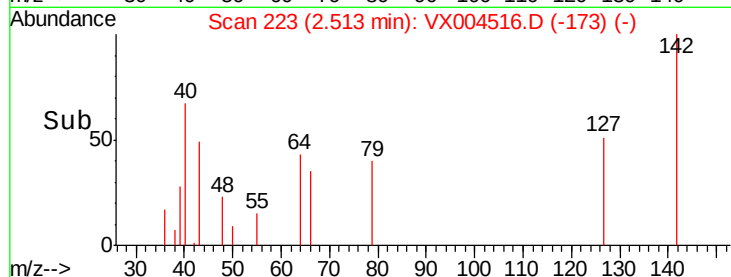
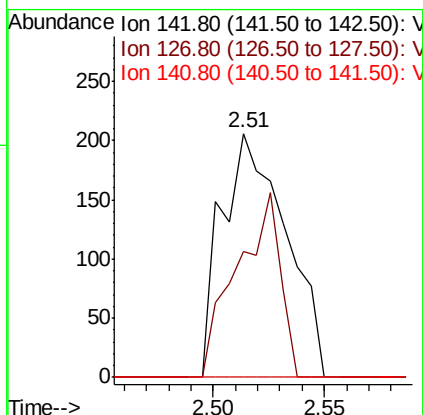
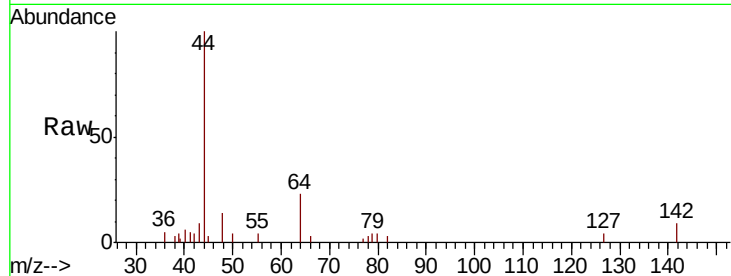




#10
Methvl Iodide
Concen: 4.37 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

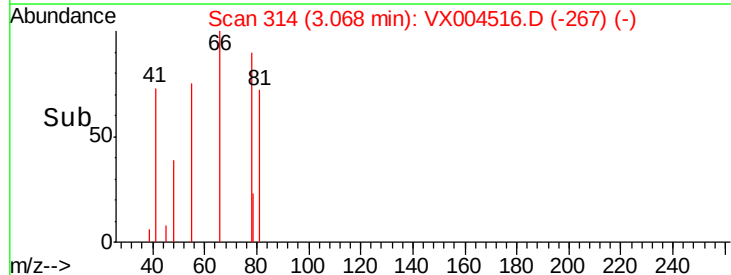
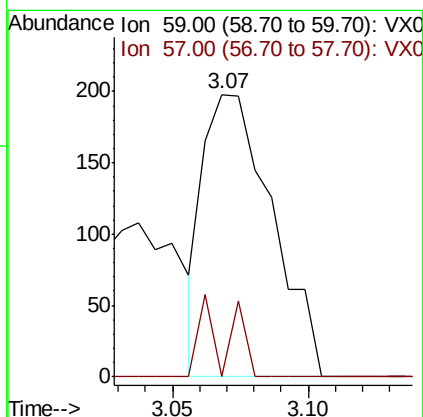
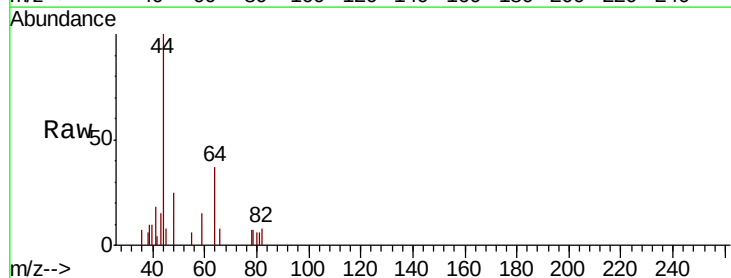
Instrument :
MSVOA_X
ClientSampled :
292

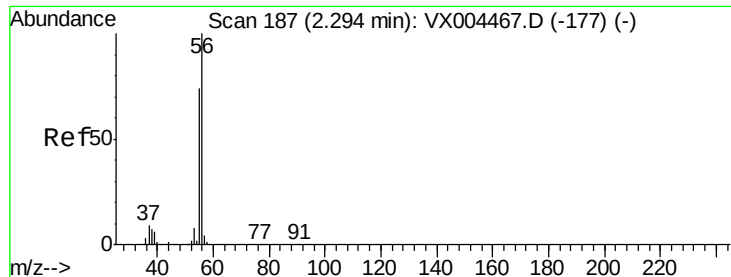
Tot Ion:142 Resp: 412
Ion Ratio Lower Upper
142 100
127 51.7 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.45 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

Tgt Ion: 59 Resp: 349
Ion Ratio Lower Upper
59 100
57 11.7 8.2 12.4





#13

Acrolein

Concen: 0.61 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX004516.D

Acq: 13 Sep 2018 15:14

Instrument :

MSVOA_X

ClientSampled :

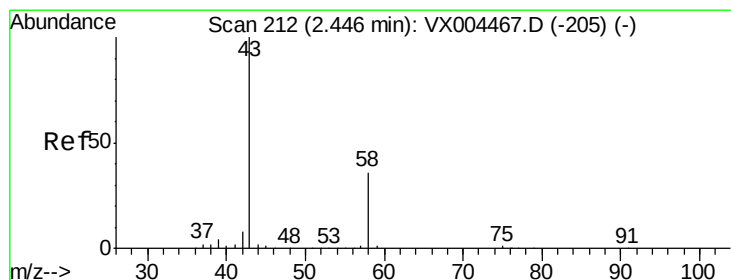
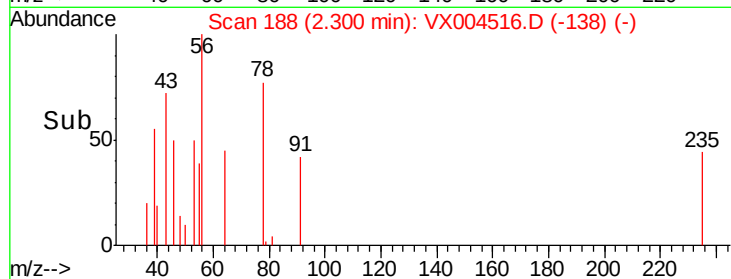
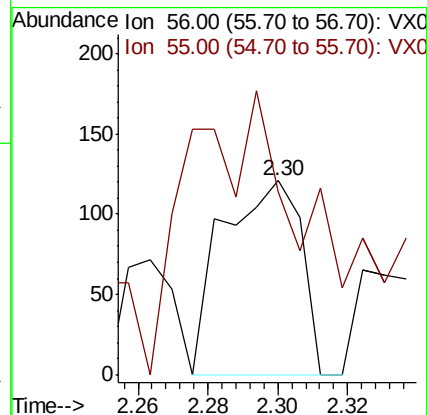
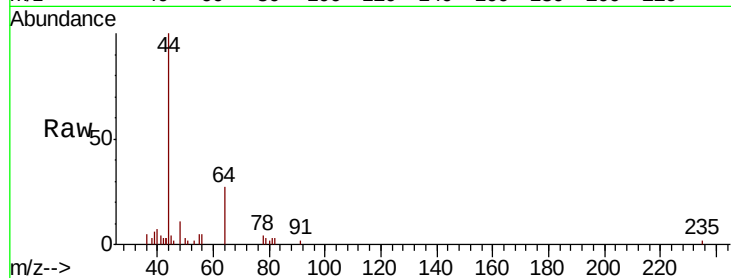
292

Tot Ion: 56 Resp: 188

Ion Ratio Lower Upper

56 100

55 0.0 54.7 82.1#



#16

Acetone

Concen: 9.94 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004516.D

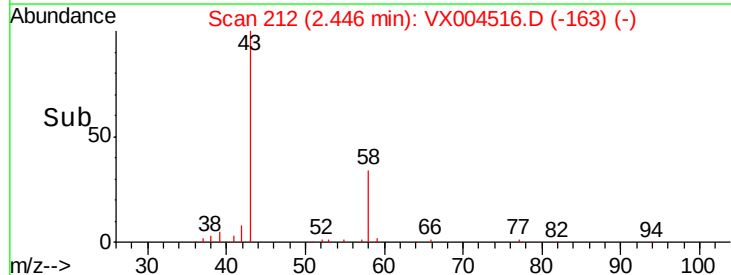
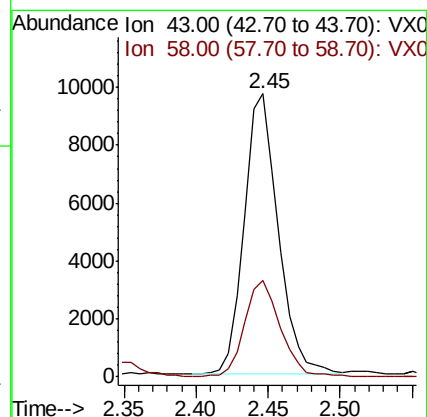
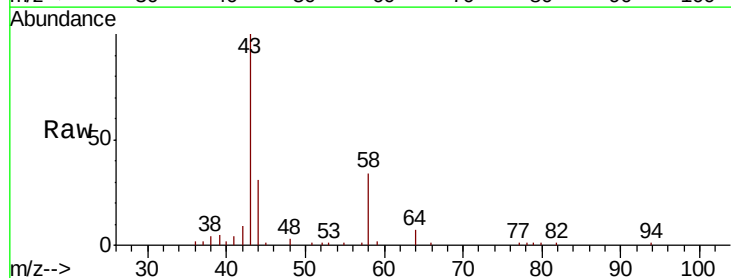
Acq: 13 Sep 2018 15:14

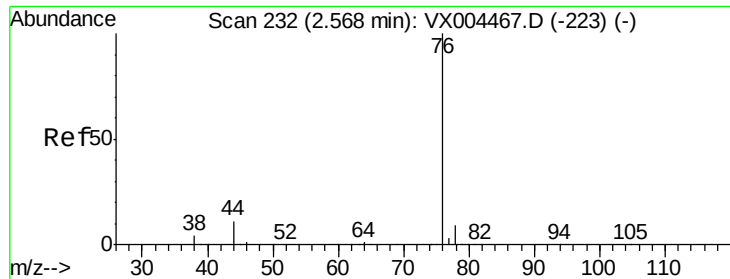
Tgt Ion: 43 Resp: 15871

Ion Ratio Lower Upper

43 100

58 34.2 26.2 39.4

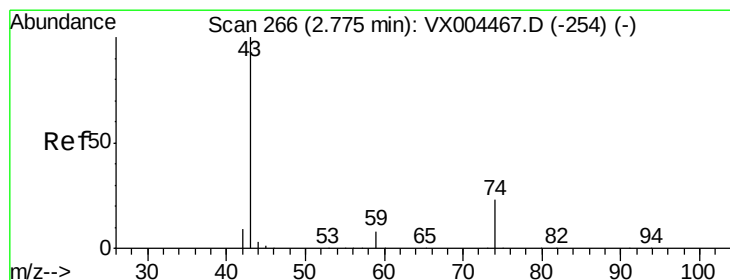
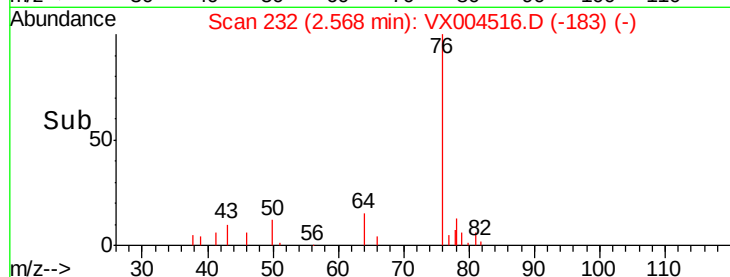
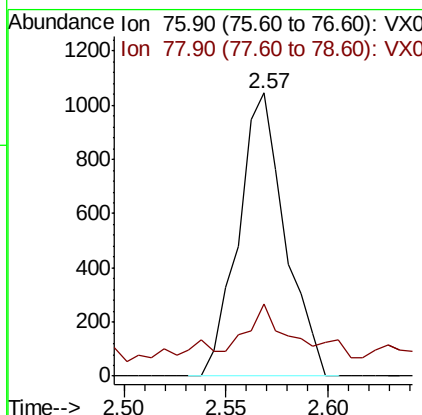
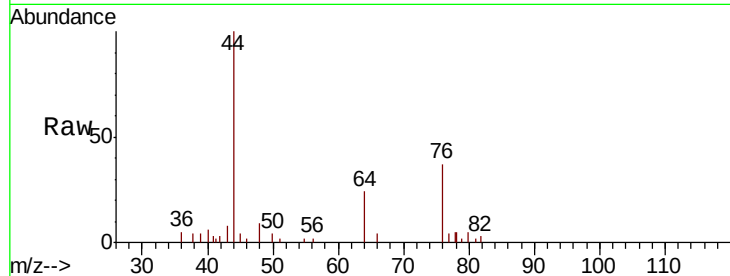




#17
Carbon Disulfide
Concen: 0.22 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

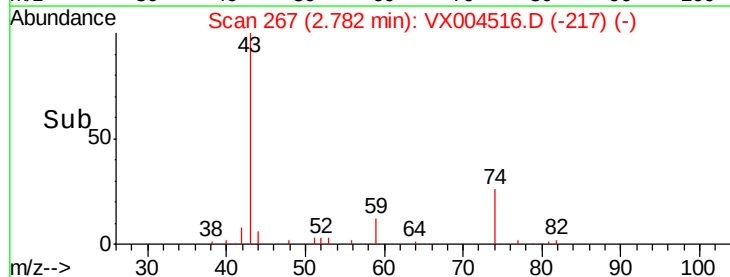
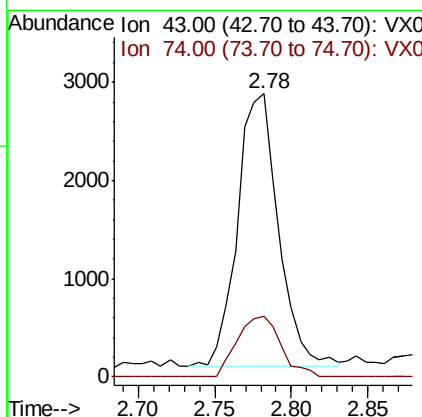
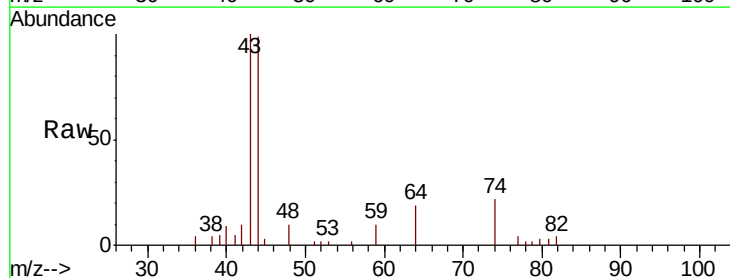
Instrument :
MSVOA_X
ClientSampleId :
292

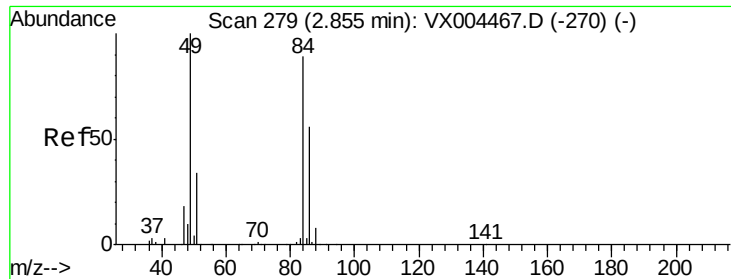
Tot Ion: 76 Resp: 1658
Ion Ratio Lower Upper
76 100
78 16.3 7.0 10.6#



#18
Methyl Acetate
Concen: 1.15 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

Tgt Ion: 43 Resp: 5128
Ion Ratio Lower Upper
43 100
74 23.9 19.4 29.2

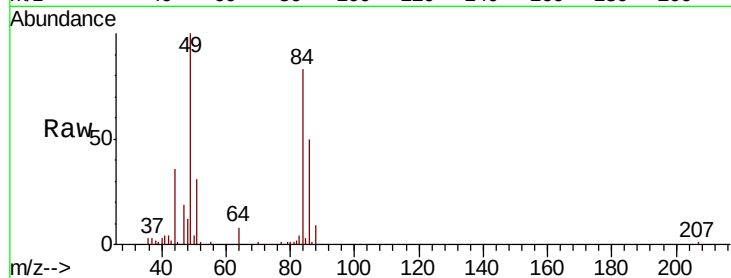




#20
Methylene Chloride
Concen: 4.15 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

Instrument :
MSVOA_X
ClientSampled :
292

Tot Ion: 84	Resp: 13581
Ion Ratio	Lower Upper
84 100	
49 119.8	101.2 151.8
51 36.5	29.5 44.3
86 60.3	52.3 78.5



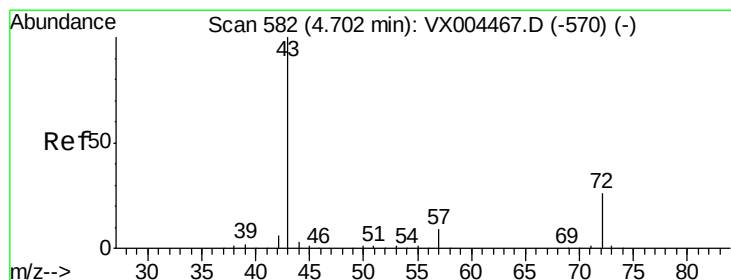
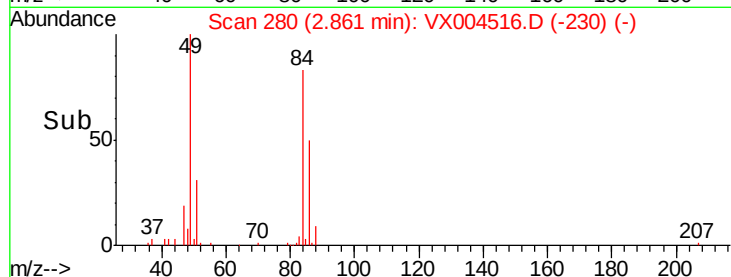
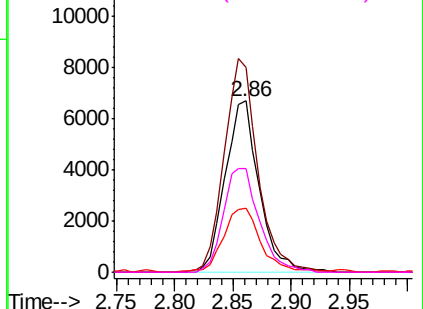
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

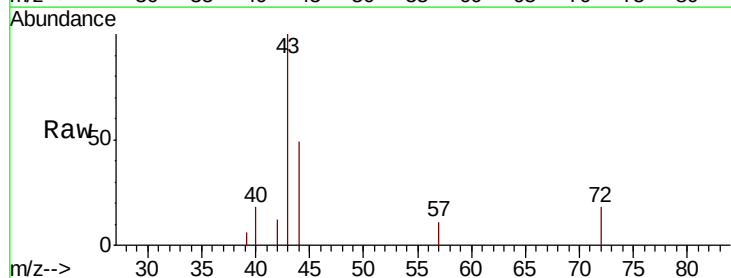
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25
2-Butanone
Concen: 1.26 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

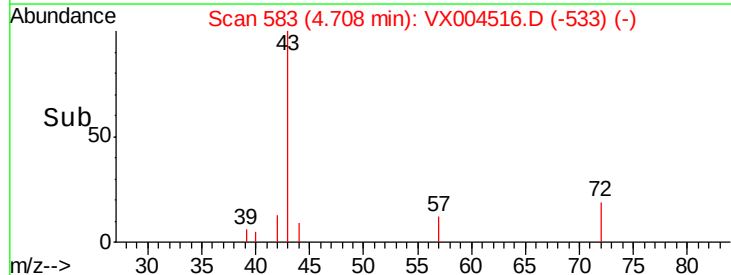
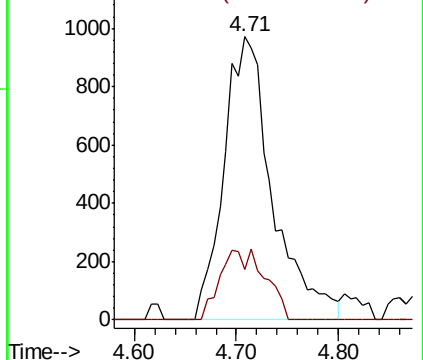
Tgt Ion: 43	Resp: 3206
Ion Ratio	Lower Upper
43 100	
72 17.9	22.0 33.0#

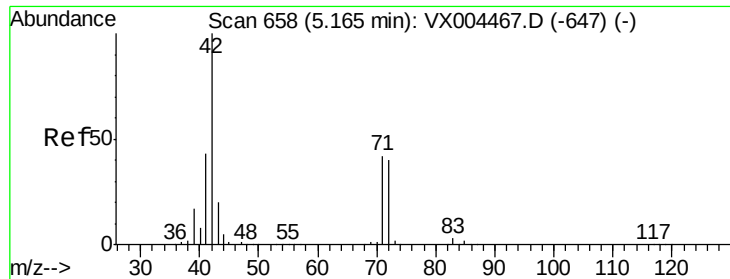


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.39 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004516.D

Acq: 13 Sep 2018 15:14

Instrument :

MSVOA_X

ClientSampled :

292

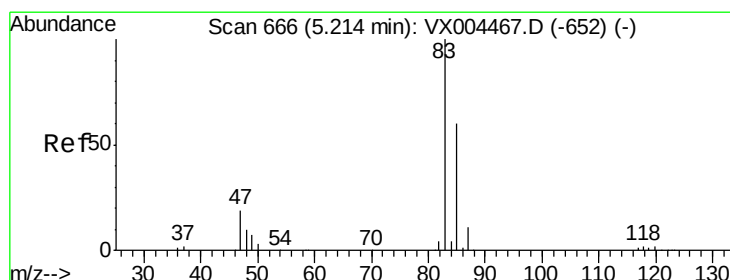
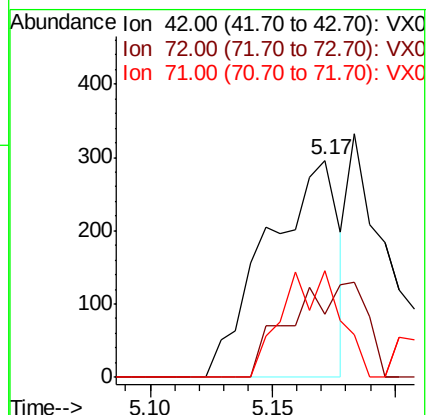
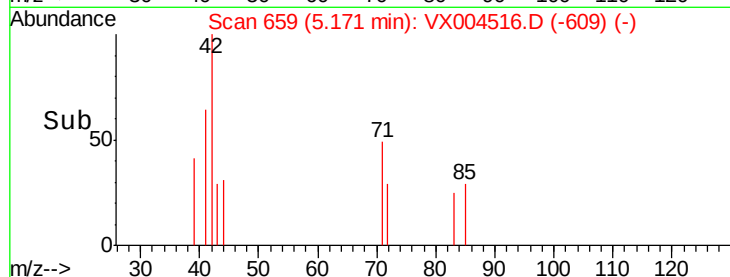
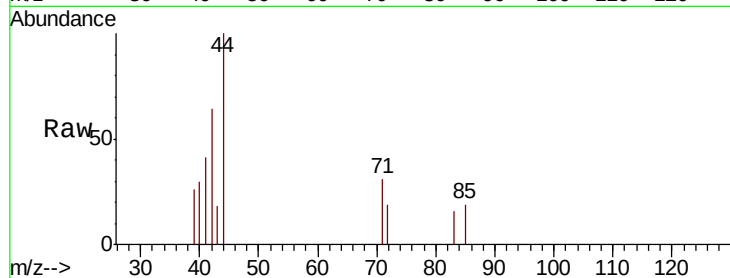
Tot Ion: 42 Resp: 600

Ion Ratio Lower Upper

42 100

72 46.3 37.4 56.0

71 39.3 34.5 51.7



#30

Chloroform

Concen: 0.39 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

Lab File: VX004516.D

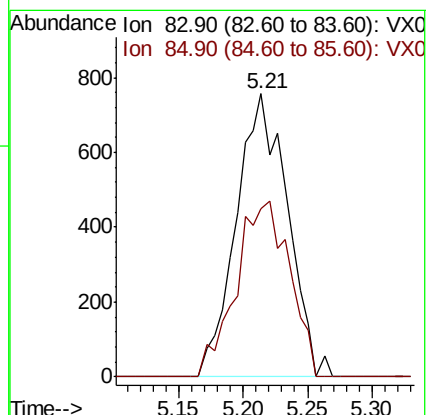
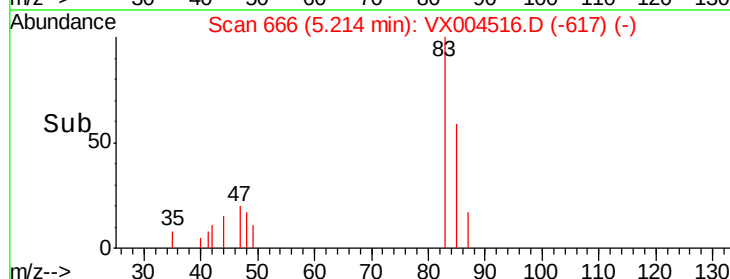
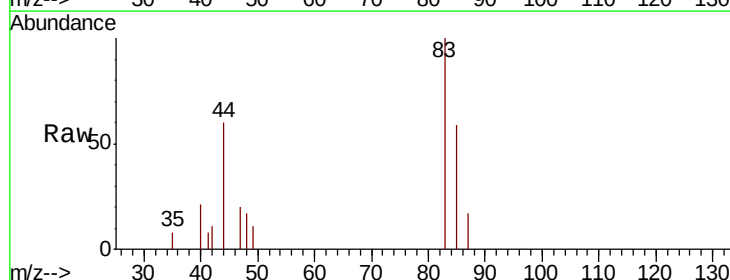
Acq: 13 Sep 2018 15:14

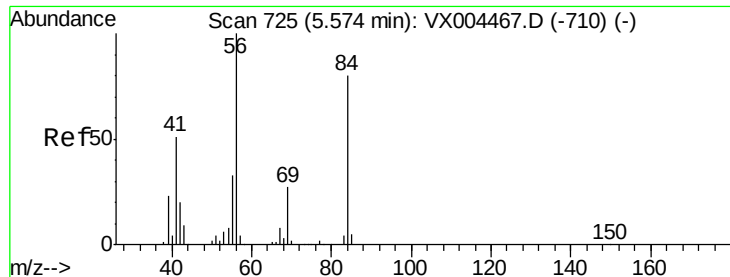
Tgt Ion: 83 Resp: 2089

Ion Ratio Lower Upper

83 100

85 59.3 52.6 79.0

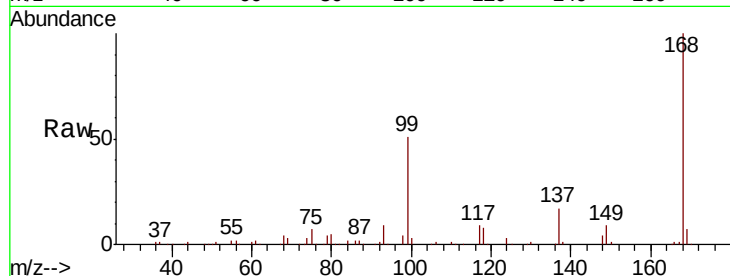




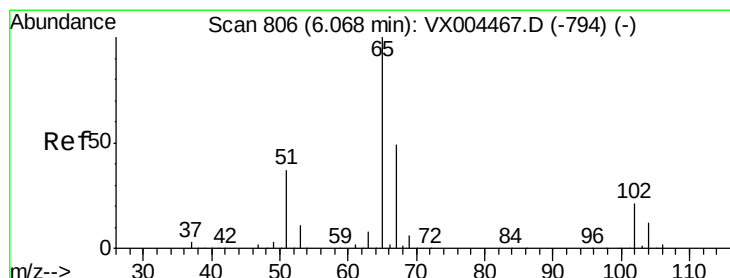
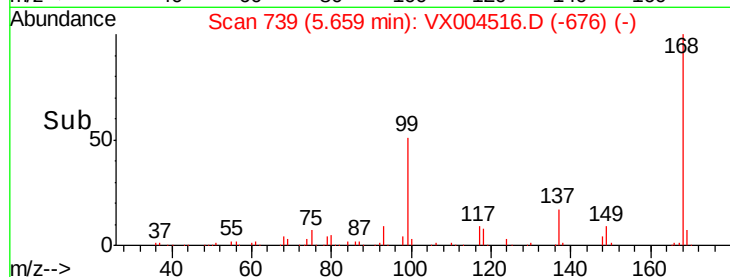
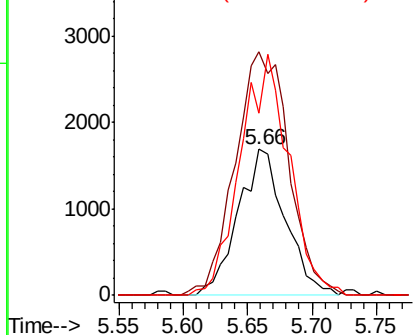
#31
Cyclohexane
Concen: 0.91 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

Instrument :
MSVOA_X
ClientSampleId :
292

Tot Ion: 56 Resp: 4283
Ion Ratio Lower Upper
56 100
69 164.1 25.4 38.2#
84 124.6 71.4 107.2#

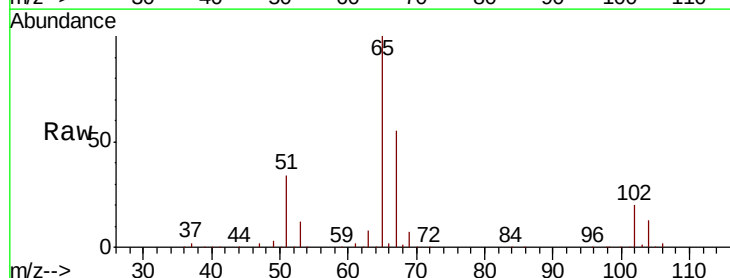


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

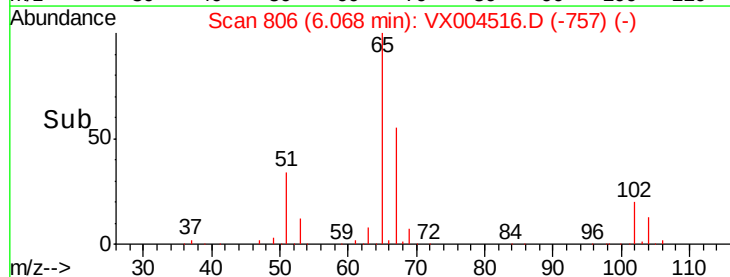
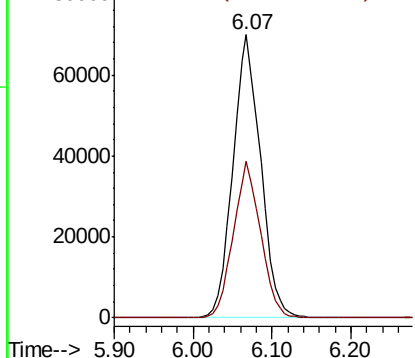


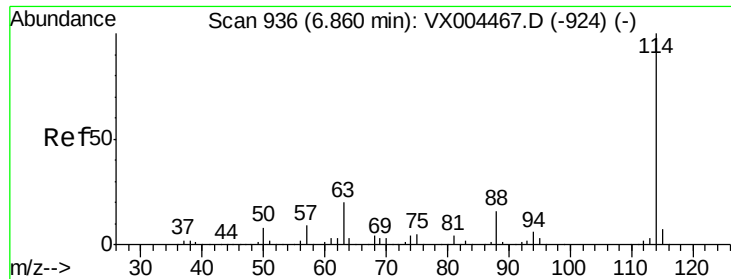
#33
1,2-Dichloroethane-d4
Concen: 52.42 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

Tgt Ion: 65 Resp: 171408
Ion Ratio Lower Upper
65 100
67 54.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

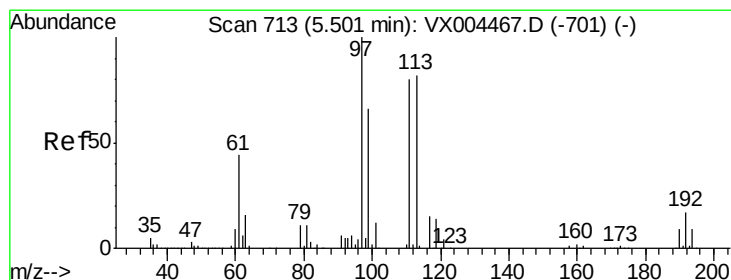
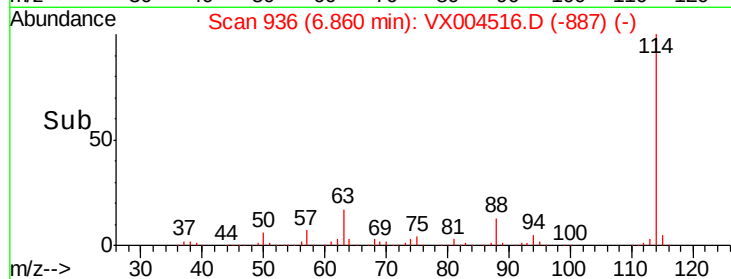
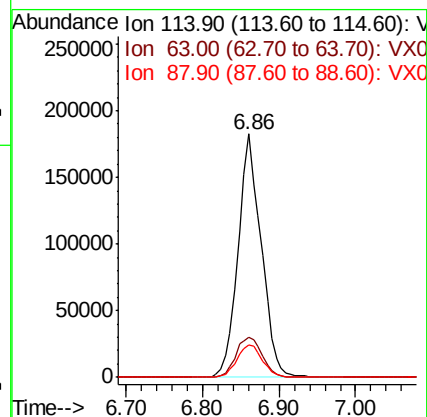
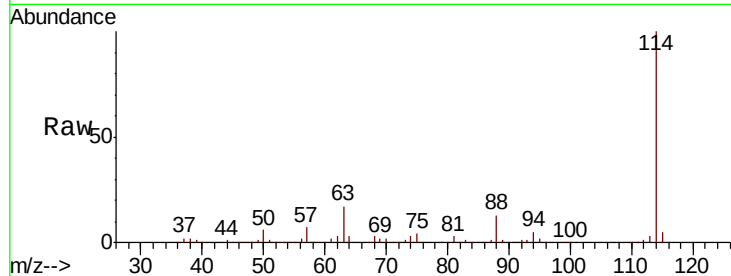




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

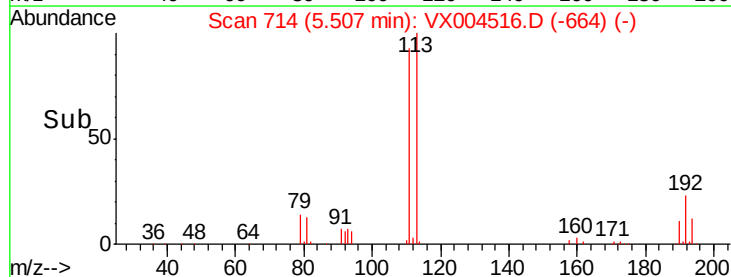
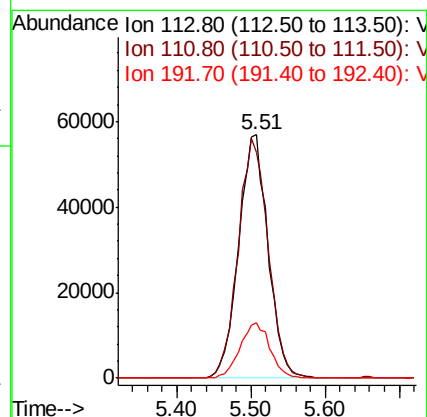
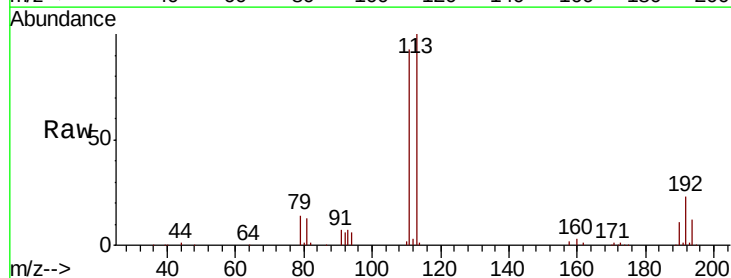
Instrument :
MSVOA_X
ClientSampleId :
292

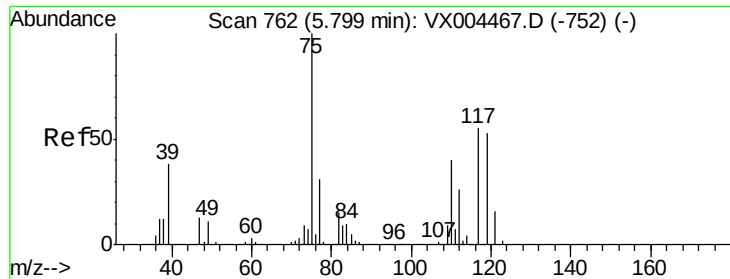
Tot Ion	Ratio	Lower	Upper
114	100		
63	16.6	0.0	39.0
88	13.3	0.0	30.4



#35
Dibromofluoromethane
Concen: 45.06 ug/l
RT: 5.51 min Scan# 714
Delta R.T. 0.01 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.1	82.4	123.6
192	23.0	19.4	29.2

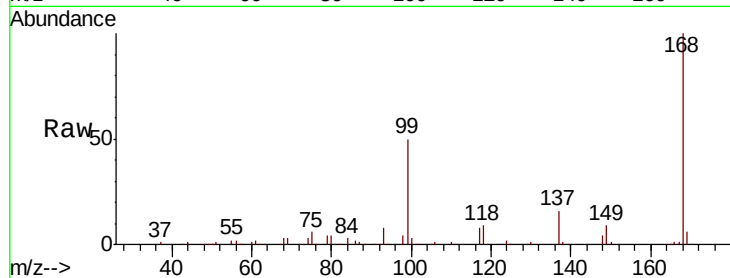




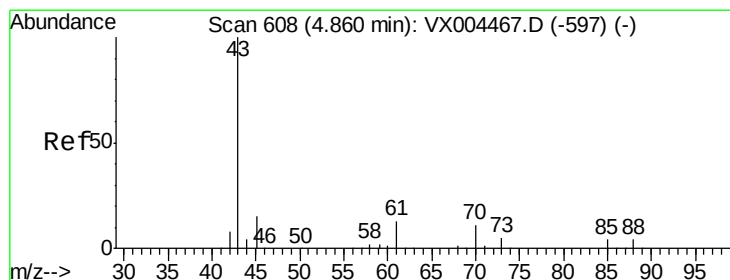
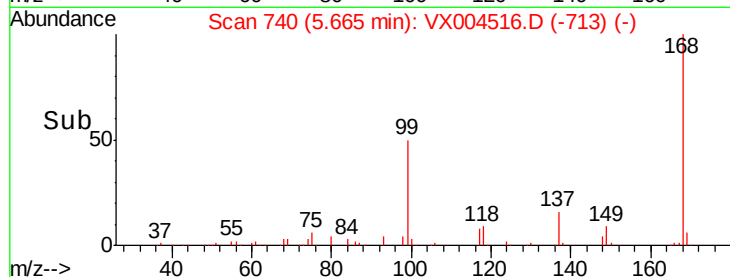
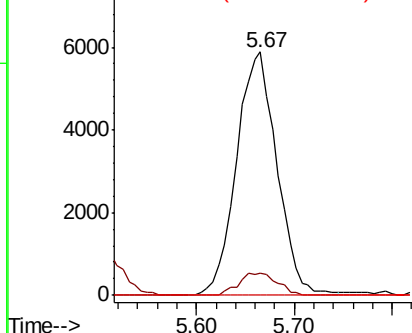
#36
 1,1-Dichloropropene
 Concen: 3.63 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004516.D
 Acq: 13 Sep 2018 15:14

Instrument :
 MSVOA_X
 ClientSampleId :
 292

Tot Ion: 75 Resp: 16863
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.0 54.0#
 77 0.0 24.6 36.8#

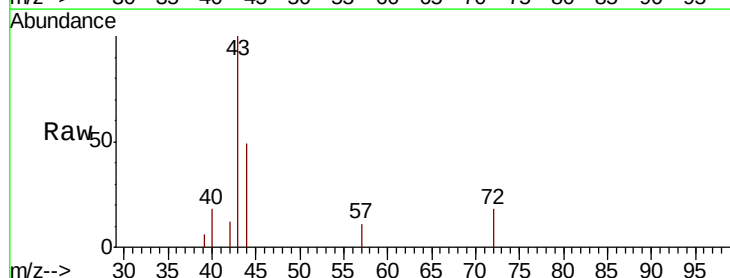


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

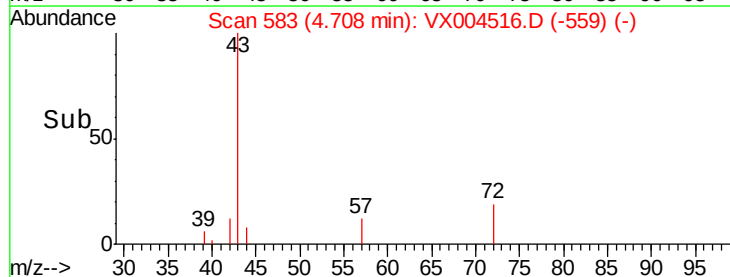
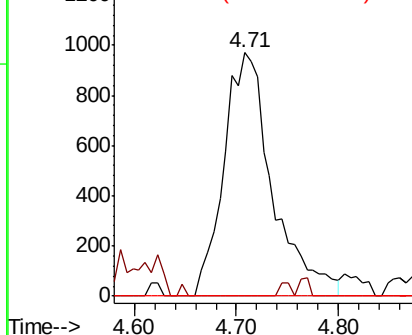


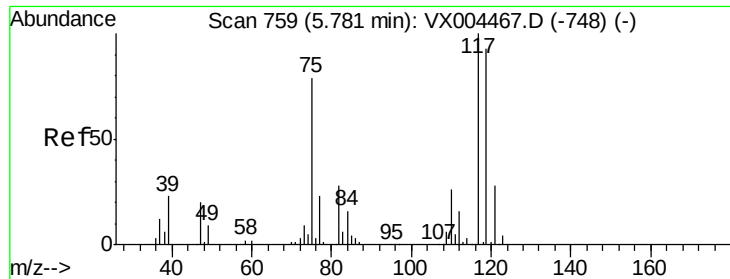
#37
 Ethyl Acetate
 Concen: 0.61 ug/l
 RT: 4.71 min Scan# 583
 Delta R.T. -0.15 min
 Lab File: VX004516.D
 Acq: 13 Sep 2018 15:14

Tgt Ion: 43 Resp: 3206
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.5 17.3#
 70 0.0 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 70.00 (69.70 to 70.70): VX0

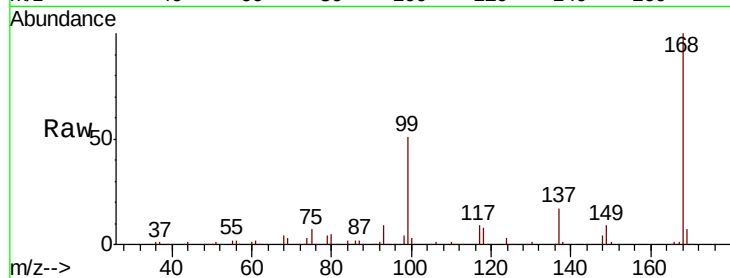




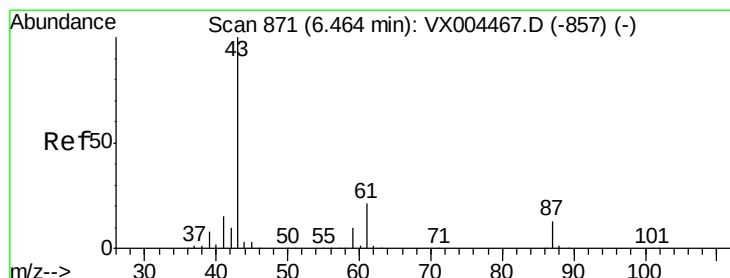
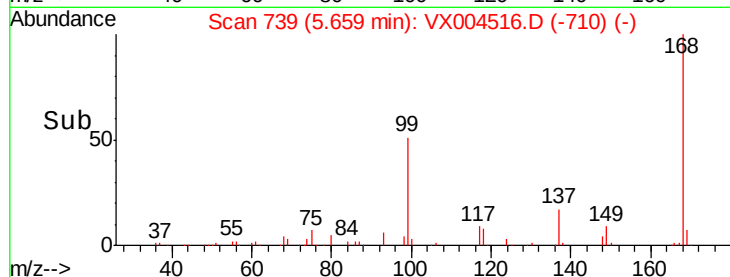
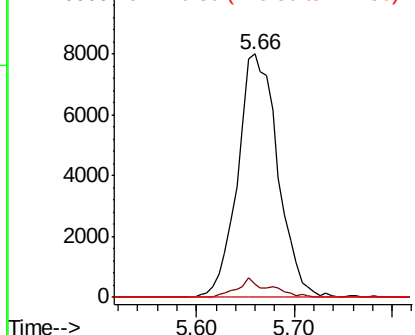
#38
Carbon Tetrachloride
Concen: 5.02 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

Instrument :
MSVOA_X
ClientSampleId :
292

Tot Ion:117 Resp: 22757
Ion Ratio Lower Upper
117 100
119 5.2 78.8 118.2#
121 0.0 24.9 37.3#

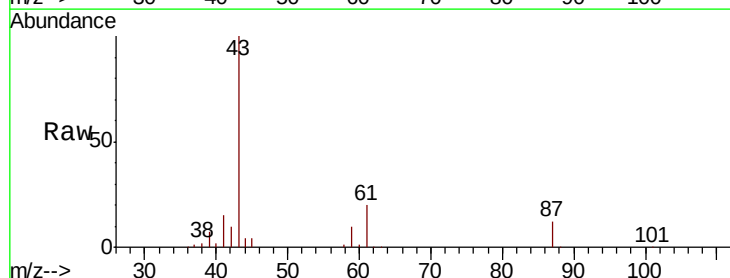


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

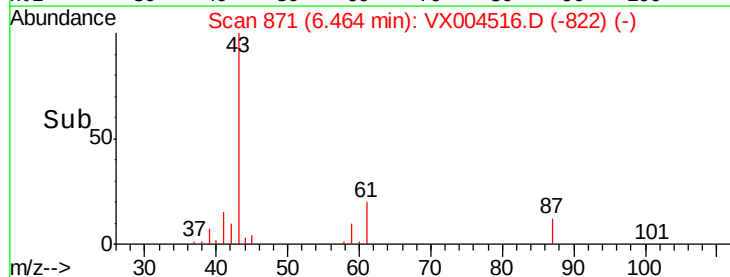
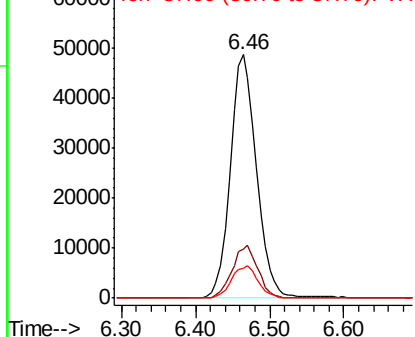


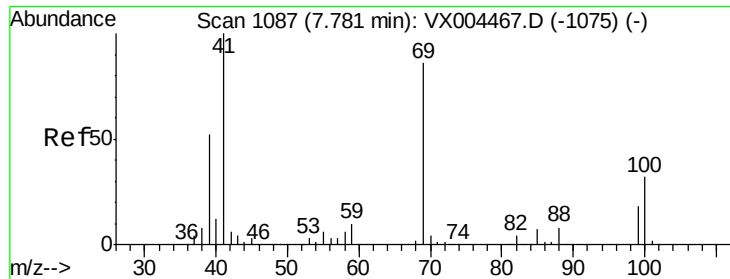
#43
Isopropyl Acetate
Concen: 17.17 ug/l
RT: 6.46 min Scan# 871
Delta R.T. 0.00 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

Tgt Ion: 43 Resp: 120357
Ion Ratio Lower Upper
43 100
61 21.2 17.0 25.4
87 13.5 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

Methvl methacrylate

Concen: 1.44 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX004516.D

Acq: 13 Sep 2018 15:14

Instrument :

MSVOA_X

ClientSampleId :

292

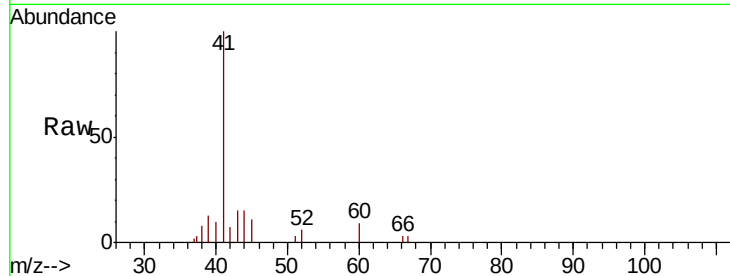
Tot Ion: 41 Resp: 5011

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

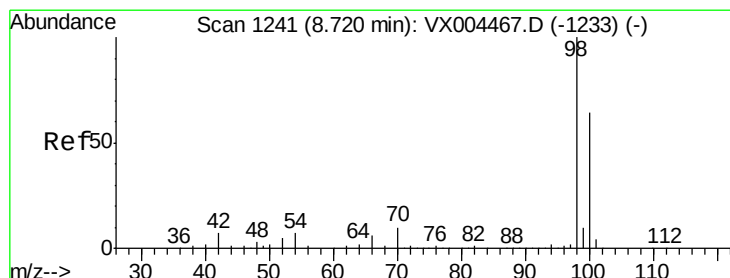
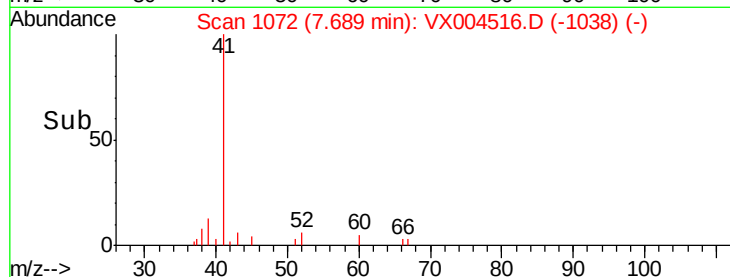
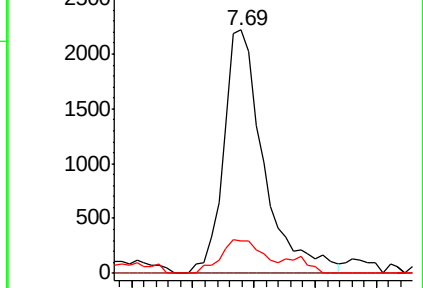
39 14.6 42.7 64.1#



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: 47.08 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX004516.D

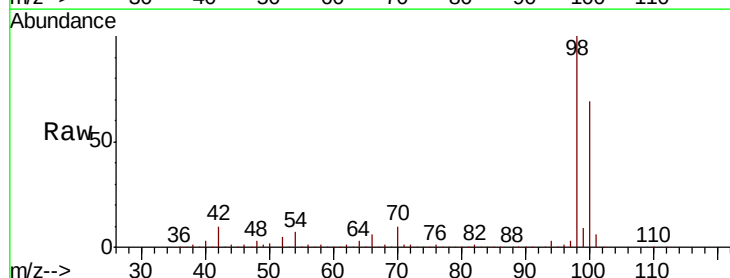
Acq: 13 Sep 2018 15:14

Tgt Ion: 98 Resp: 552143

Ion Ratio Lower Upper

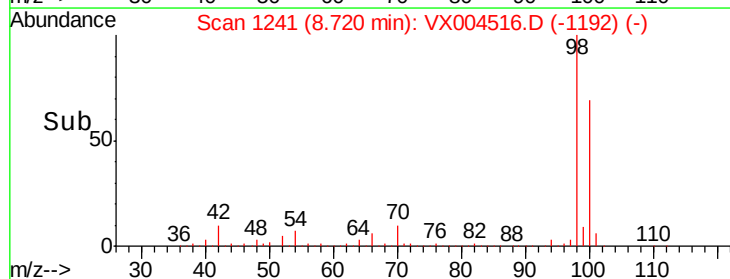
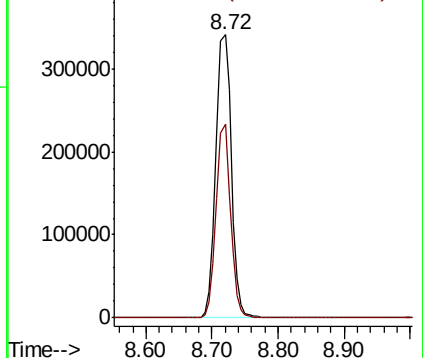
98 100

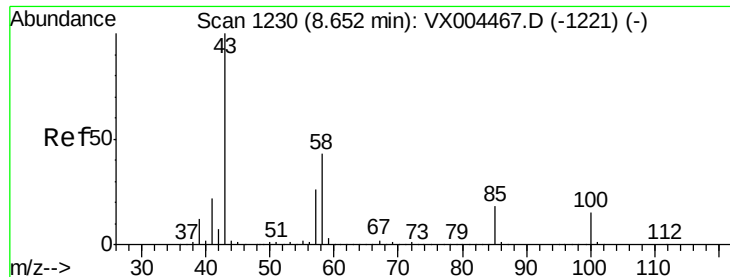
100 63.7 52.9 79.3



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: 0.35 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004516.D

Acq: 13 Sep 2018 15:14

Instrument :

MSVOA_X

ClientSampled :

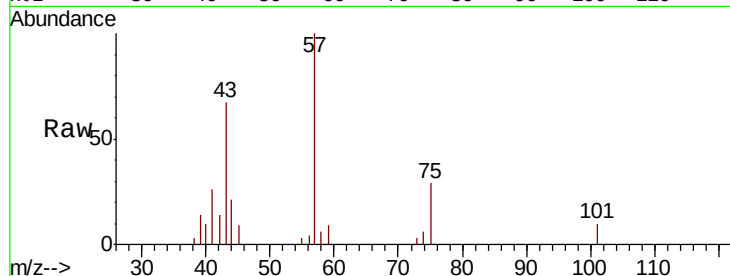
292

Tot Ion: 43 Resp: 1737

Ion Ratio Lower Upper

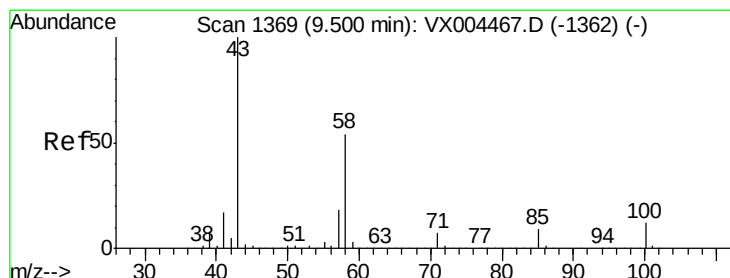
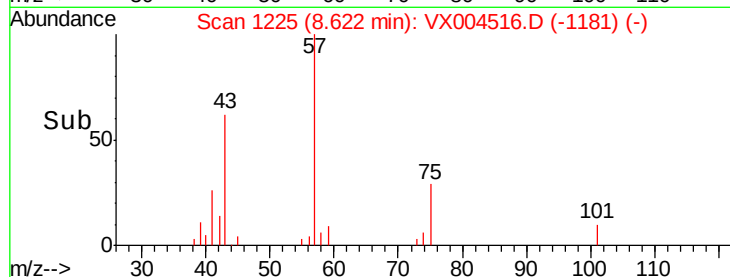
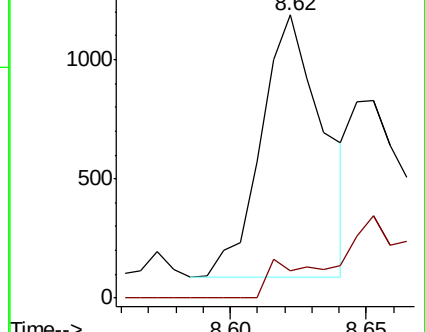
43 100

58 11.2 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#59

2-Hexanone

Concen: 1.81 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX004516.D

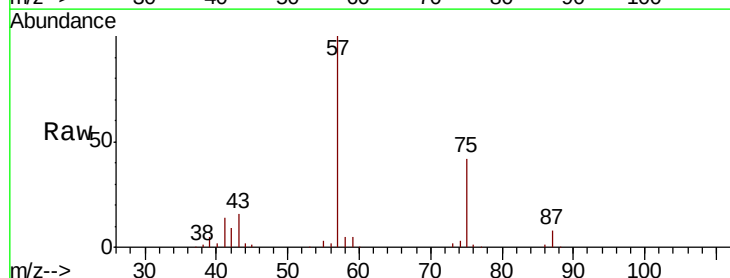
Acq: 13 Sep 2018 15:14

Tgt Ion: 43 Resp: 6858

Ion Ratio Lower Upper

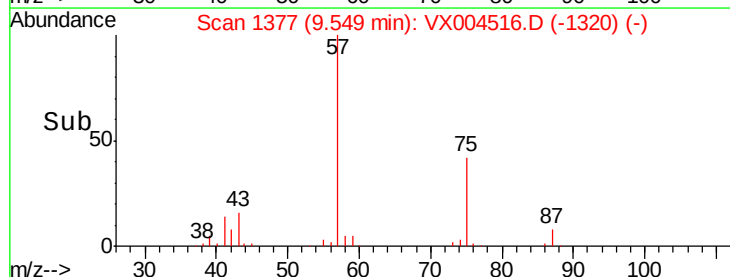
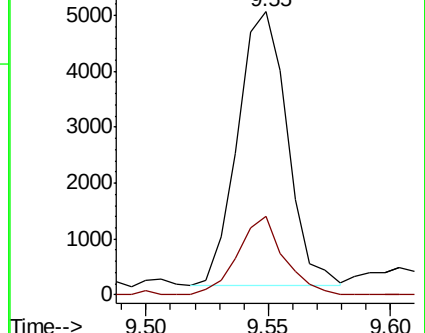
43 100

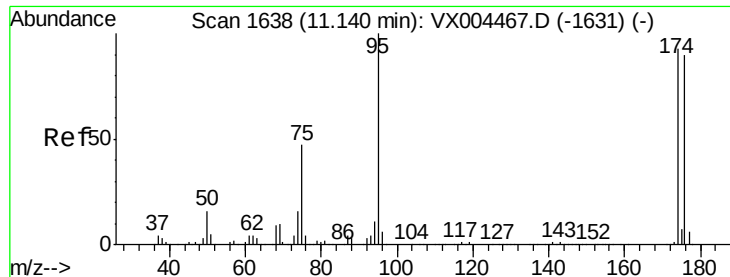
58 27.0 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

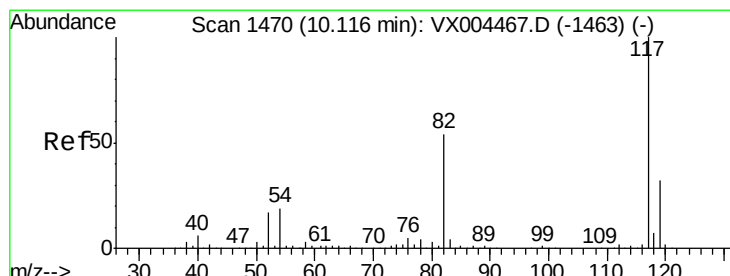
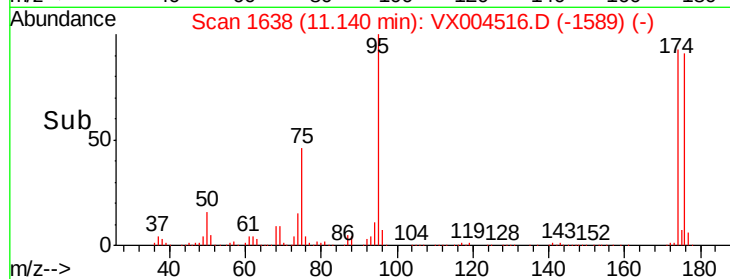
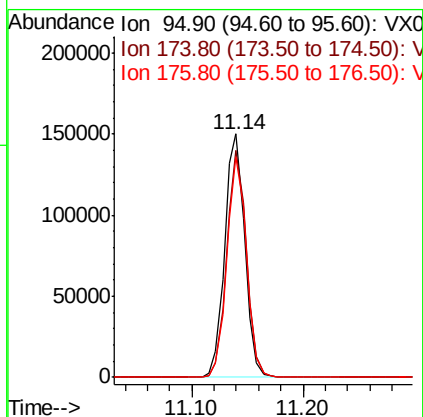
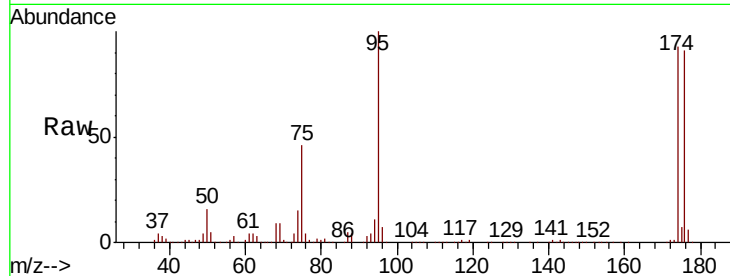




#62
4-Bromofluorobenzene
Concen: 44.59 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

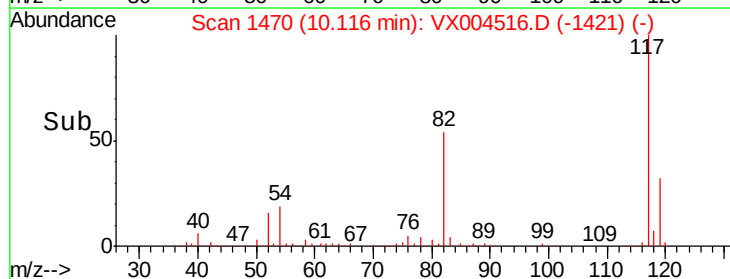
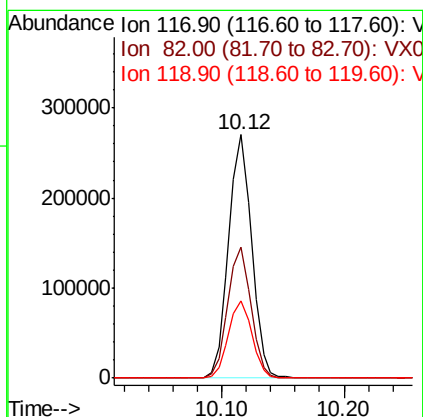
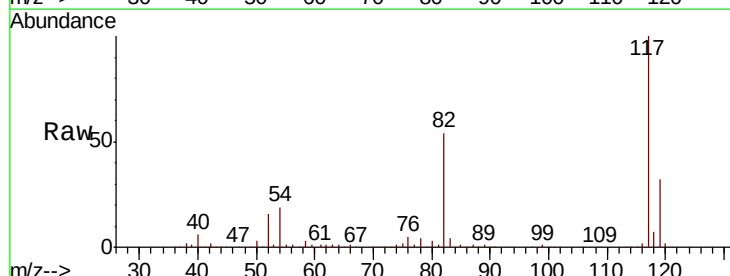
Instrument :
MSVOA_X
ClientSampleId :
292

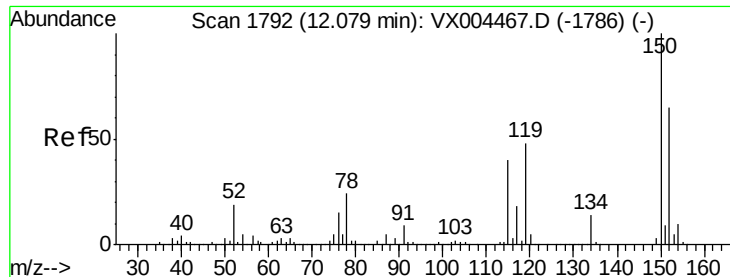
Tot Ion: 95 Resp: 186691
Ion Ratio Lower Upper
95 100
174 91.6 0.0 185.2
176 88.7 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004516.D
Acq: 13 Sep 2018 15:14

Tgt Ion: 117 Resp: 352925
Ion Ratio Lower Upper
117 100
82 53.6 47.8 71.6
119 32.0 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004516.D

Acq: 13 Sep 2018 15:14

Instrument :

MSVOA_X

ClientSampleId :

292

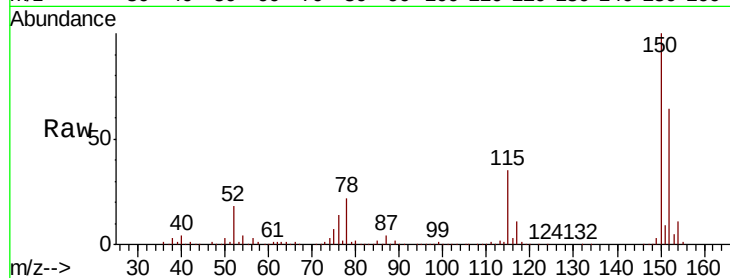
Tot Ion:152 Resp: 197036

Ion Ratio Lower Upper

152 100

115 54.8 39.0 117.0

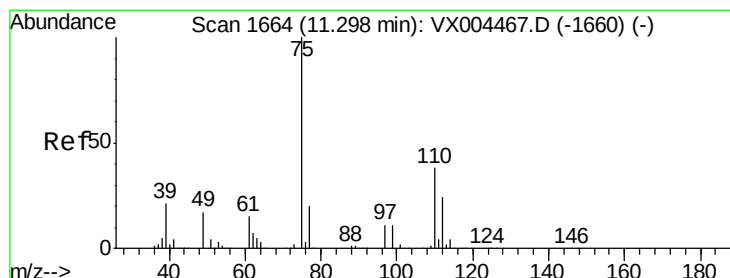
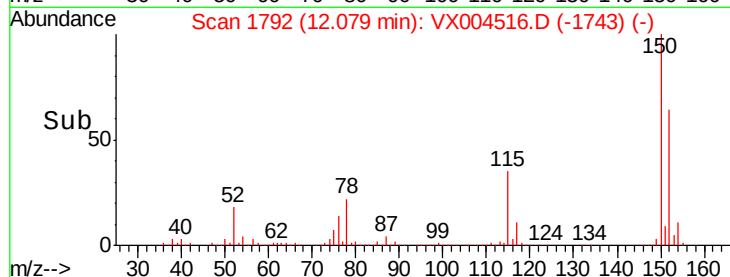
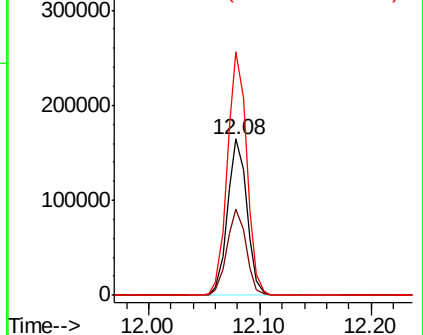
150 156.4 0.0 351.0



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: 21.99 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004516.D

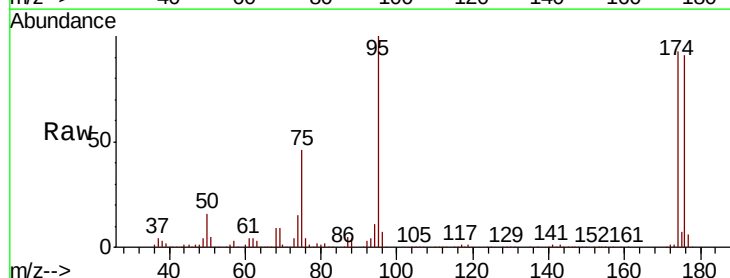
Acq: 13 Sep 2018 15:14

Tgt Ion: 75 Resp: 87165

Ion Ratio Lower Upper

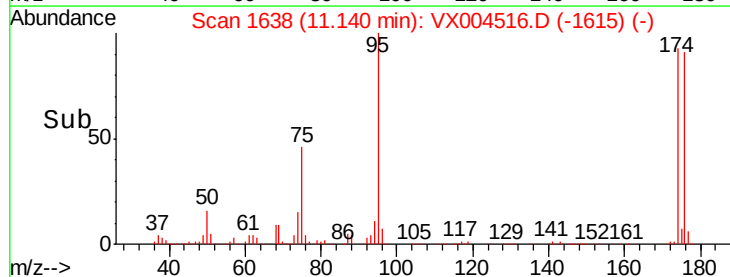
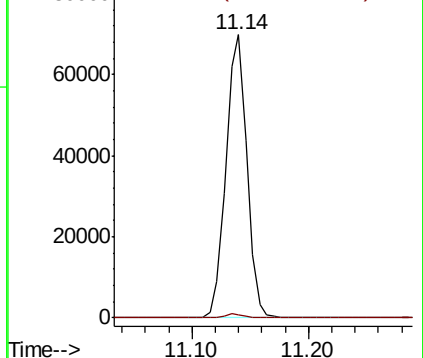
75 100

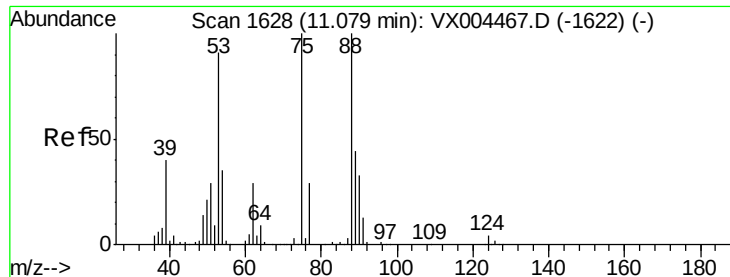
77 1.4 20.2 60.6#



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: 70.09 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004516.D

Acq: 13 Sep 2018 15:14

Instrument :

MSVOA_X

ClientSampleId :

292

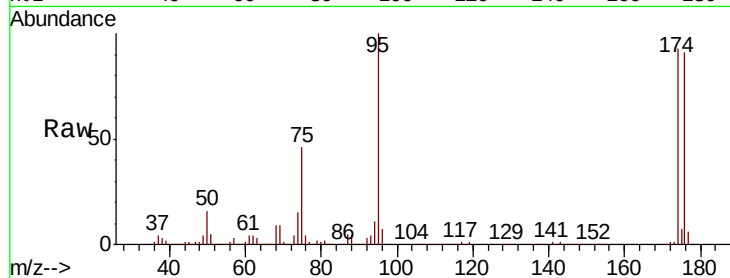
Tot Ion: 75 Resp: 87165

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

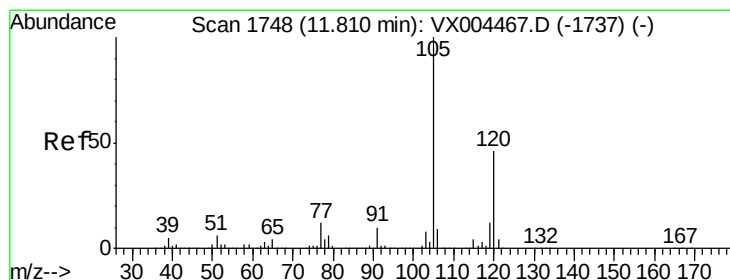
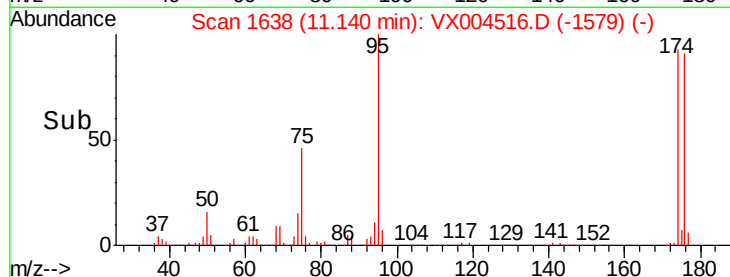
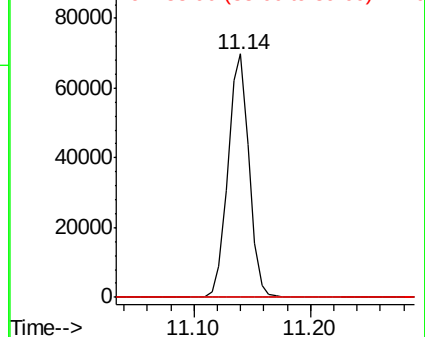
89 0.0 37.2 55.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.28 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.00 min

Lab File: VX004516.D

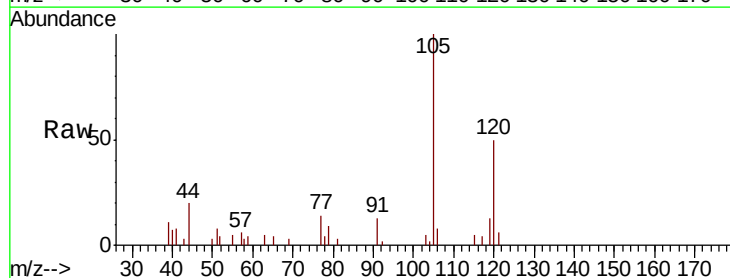
Acq: 13 Sep 2018 15:14

Tgt Ion:105 Resp: 3091

Ion Ratio Lower Upper

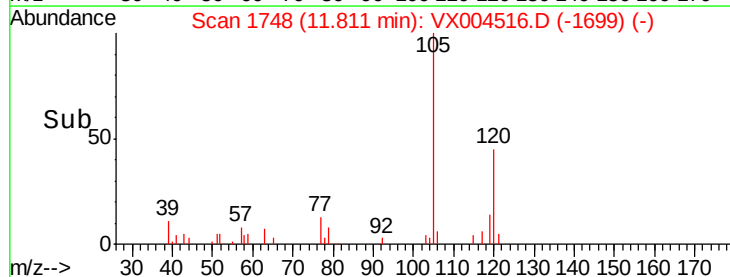
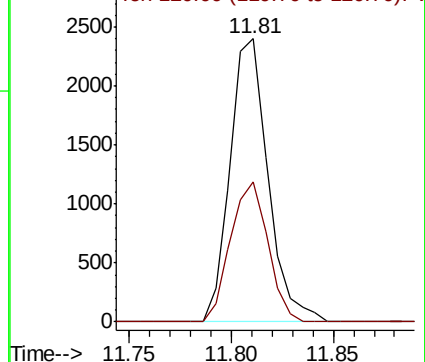
105 100

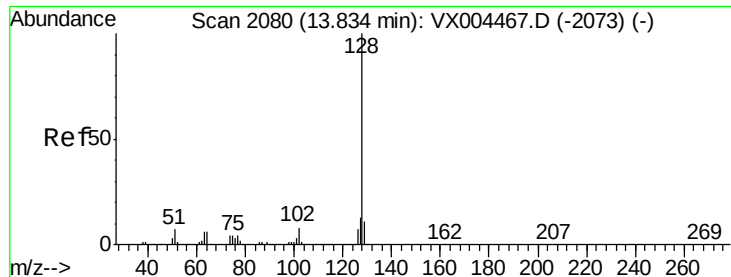
120 48.5 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 3.02 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004516.D

Acq: 13 Sep 2018 15:14

Instrument :

MSVOA_X

ClientSampleId :

292

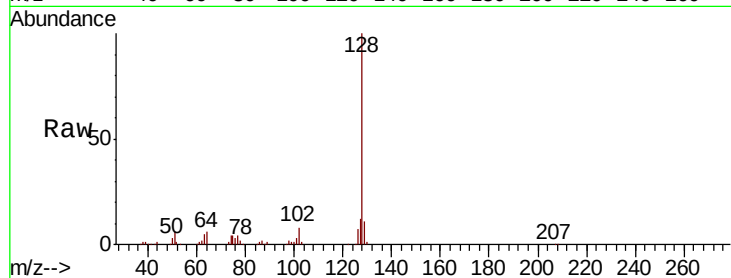
Tot Ion:128 Resp: 40682

Ion Ratio Lower Upper

128 100

127 13.1 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

