

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071918\
 Data File : VN049953.D
 Acq On : 20 Jul 2018 7:59
 Operator : MD\SY
 Sample : J4016-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SB4-U-23-13

Quant Time: Jul 20 08:22:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 01:58:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	571481	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	947945	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	797055	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	285064	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	411512	52.39	ug/l	0.00
Spiked Amount			Recovery	=	104.78%	
35) Dibromofluoromethane	7.59	113	361107	45.38	ug/l	0.00
Spiked Amount			Recovery	=	90.76%	
50) Toluene-d8	10.09	98	1287046	44.39	ug/l	0.00
Spiked Amount			Recovery	=	88.78%	
62) 4-Bromofluorobenzene	12.40	95	349914	35.04	ug/l	0.00
Spiked Amount			Recovery	=	70.08%	

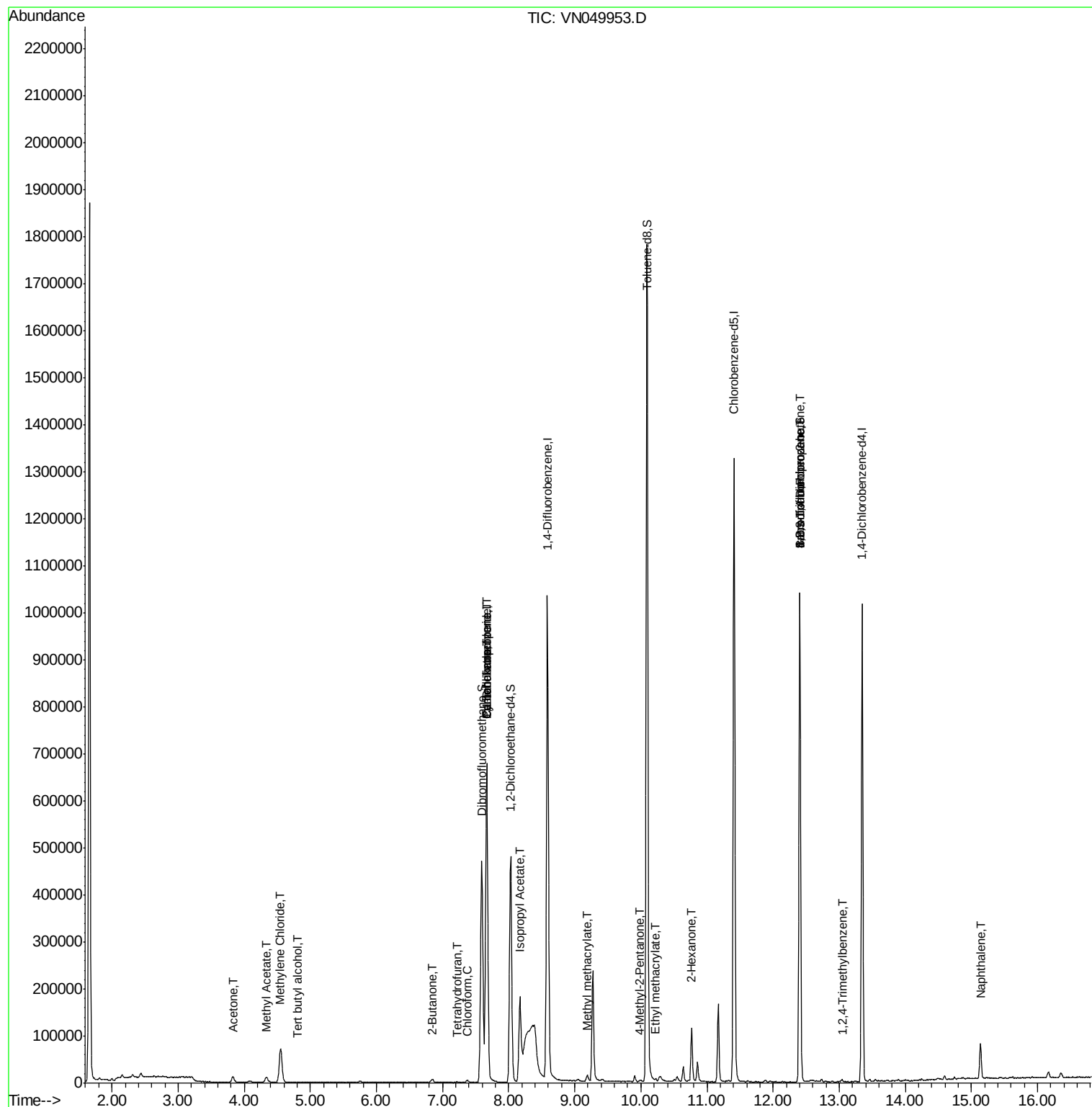
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	148	Below Cal		92
11) Tert butyl alcohol	4.79	59	229	0.41 ug/l #		72
16) Acetone	3.83	43	21483	10.56 ug/l		96
18) Methyl Acetate	4.34	43	23365	2.88 ug/l		98
20) Methylene Chloride	4.55	84	53748	6.95 ug/l		99
25) 2-Butanone	6.85	43	4943	1.70 ug/l		95
29) Tetrahydrofuran	7.22	42	733	0.40 ug/l #		43
30) Chloroform	7.37	83	4851	0.37 ug/l		93
31) Cyclohexane	7.67	56	11185	1.07 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	39711	3.77 ug/l #		49
38) Carbon Tetrachloride	7.67	117	51811	4.59 ug/l #		17
43) Isopropyl Acetate	8.17	43	221961	17.55 ug/l		97
48) Methyl methacrylate	9.18	41	8251	1.30 ug/l #		21
51) 4-Methyl-2-Pentanone	9.99	43	2458	0.35 ug/l		89
56) Ethyl methacrylate	10.23	69	2092	2.35 ug/l		90
59) 2-Hexanone	10.77	43	15846	3.34 ug/l #		61
71) Bromoform	12.40	173	3049	0.55 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	171333	32.04 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	171333	100.19 ug/l #		13
84) 1,2,4-Trimethylbenzene	13.04	105	3639	0.21 ug/l		91
95) Naphthalene	15.14	128	64063	8.81 ug/l		98

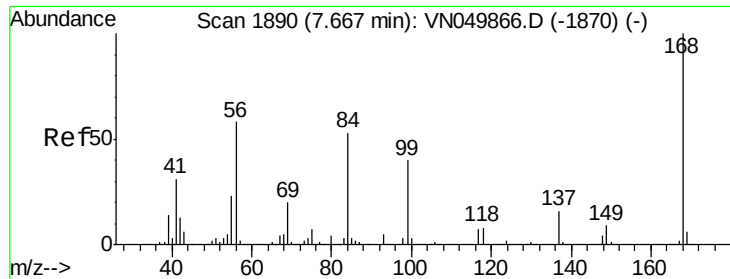
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049953.D

Acq: 20 Jul 2018 7:59

Instrument :

MSVOA_N

ClientSampleId :

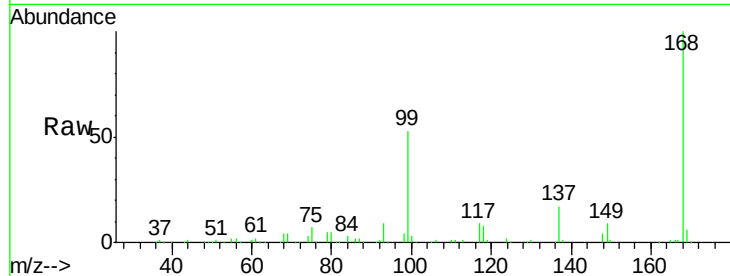
SB4-U-23-13

Tot Ion:168 Resp: 571481

Ion Ratio Lower Upper

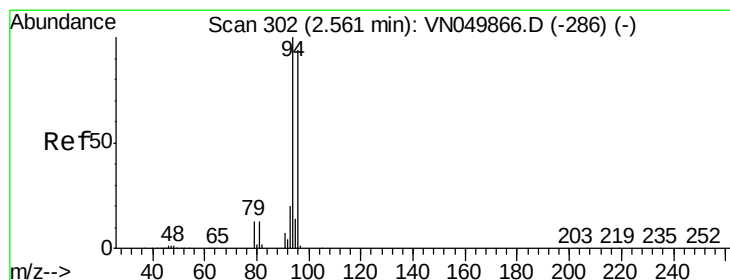
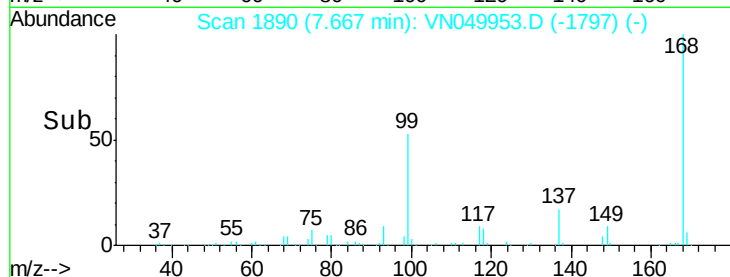
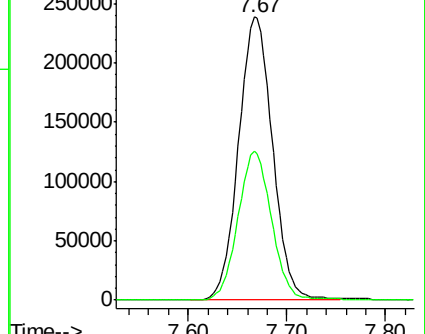
168 100

99 52.7 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 302

Delta R.T. -0.00 min

Lab File: VN049953.D

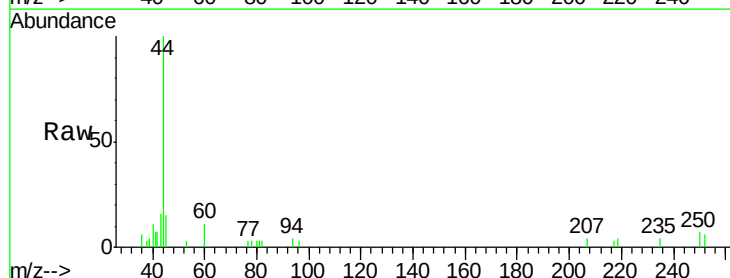
Acq: 20 Jul 2018 7:59

Tgt Ion: 94 Resp: 148

Ion Ratio Lower Upper

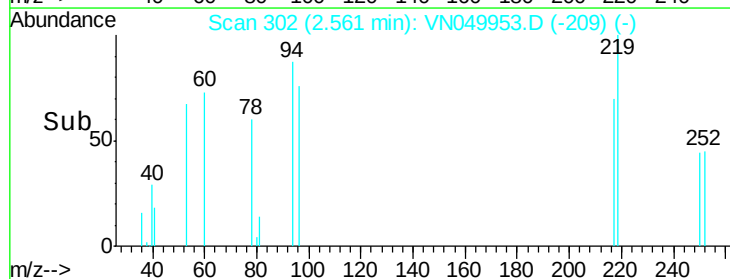
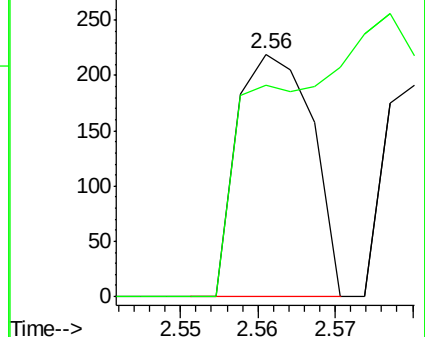
94 100

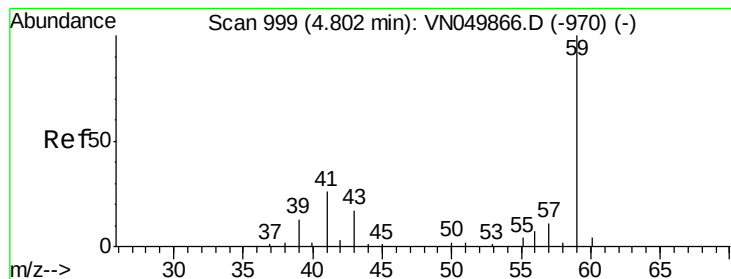
96 87.2 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



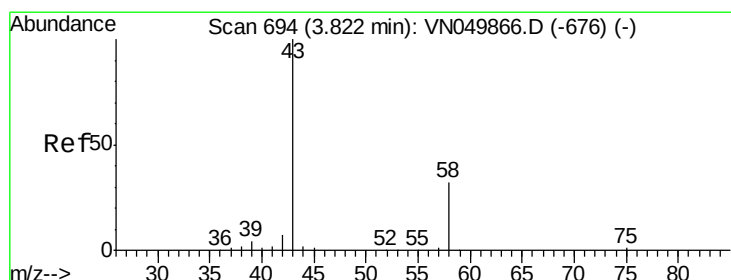
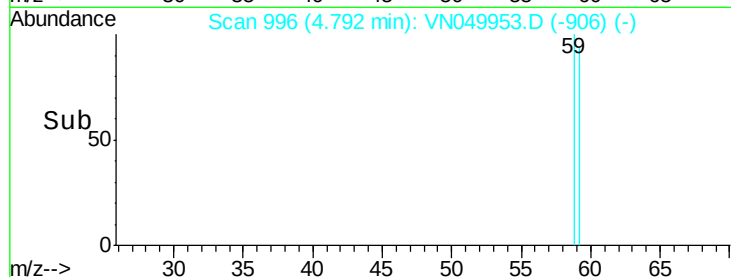
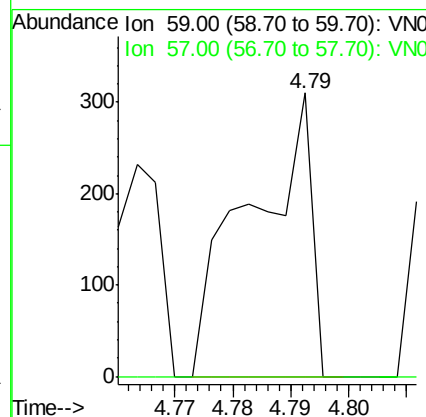
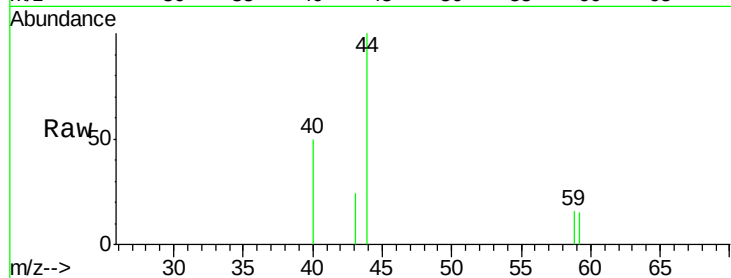


#11

Tert butyl alcohol
 Concen: 0.41 ug/l
 RT: 4.79 min Scan# 996
 Delta R.T. -0.01 min
 Lab File: VN049953.D
 Acq: 20 Jul 2018 7:59

Instrument :
 MSVOA_N
 ClientSampled :
 SB4-U-23-13

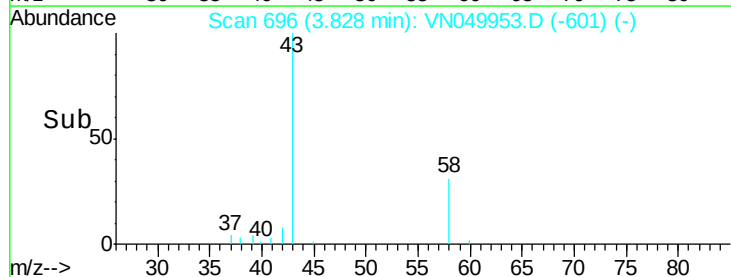
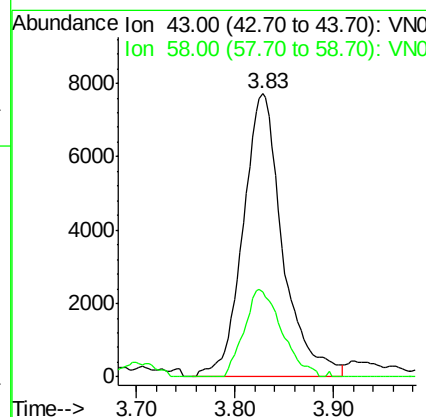
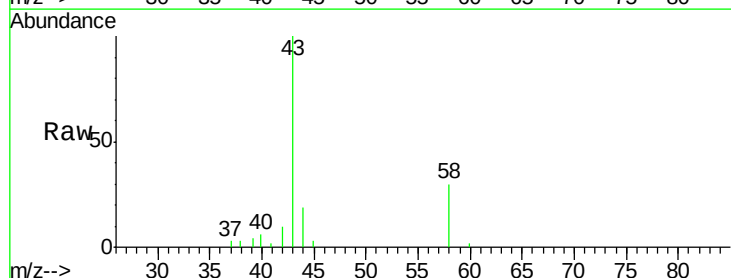
Tot Ion: 59 Resp: 229
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

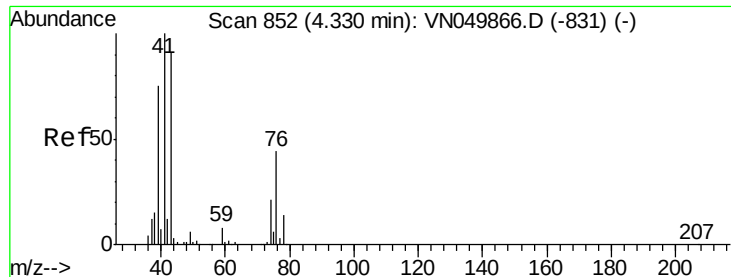


#16

Acetone
 Concen: 10.56 ug/l
 RT: 3.83 min Scan# 696
 Delta R.T. 0.01 min
 Lab File: VN049953.D
 Acq: 20 Jul 2018 7:59

Tgt Ion: 43 Resp: 21483
 Ion Ratio Lower Upper
 43 100
 58 29.9 25.9 38.9

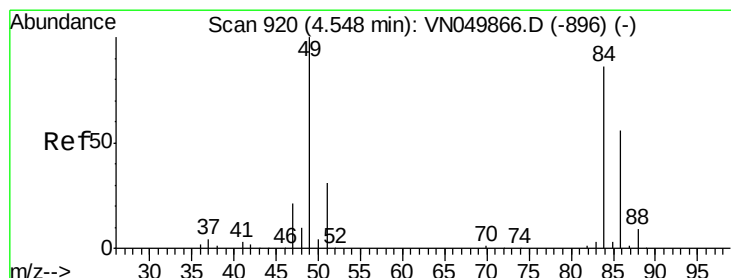
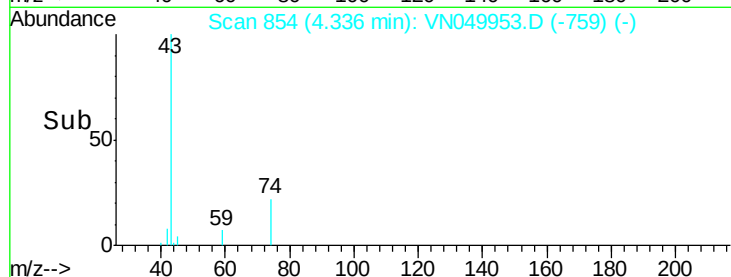
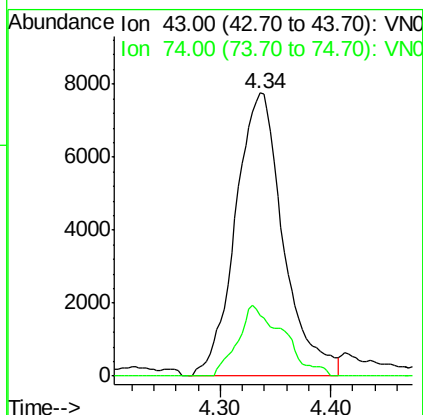
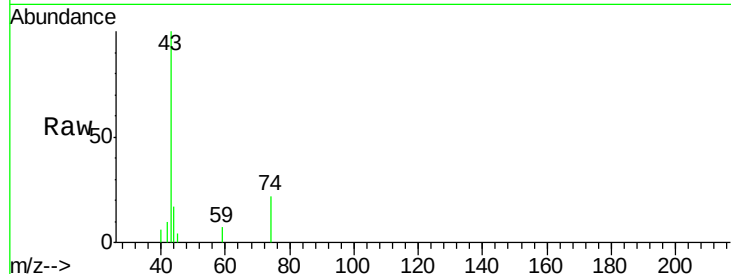




#18
Methvl Acetate
Concen: 2.88 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049953.D
Acq: 20 Jul 2018 7:59

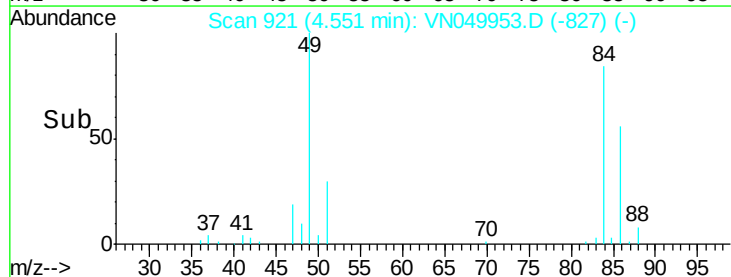
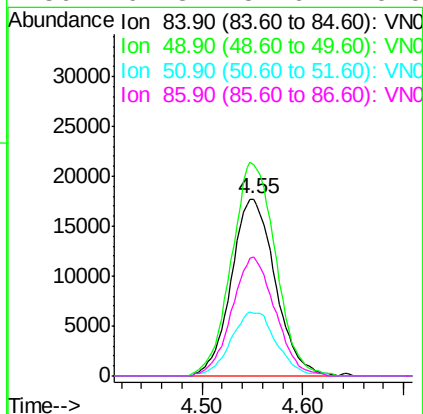
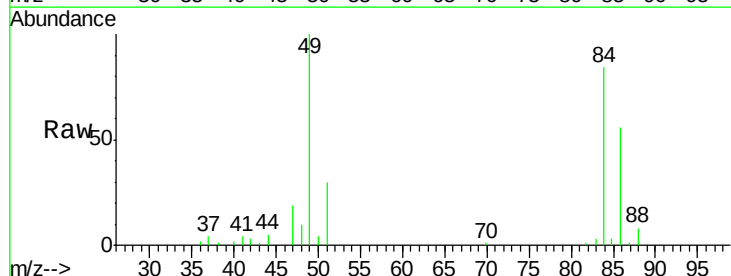
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MSVOA_N
ClientSampled :
SB4-U-23-13

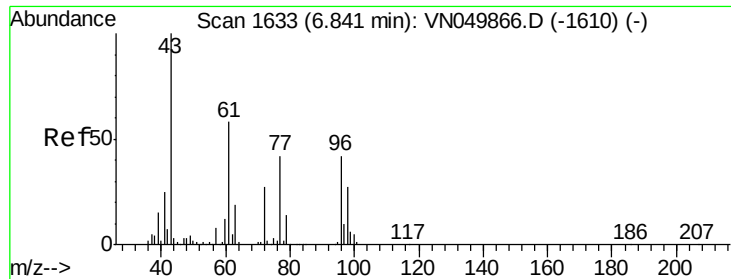
Tot Ion: 43 Resp: 23365
Ion Ratio Lower Upper
43 100
74 23.9 19.8 29.8



#20
Methylene Chloride
Concen: 6.95 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049953.D
Acq: 20 Jul 2018 7:59

Tgt Ion: 84 Resp: 53748
Ion Ratio Lower Upper
84 100
49 119.2 95.4 143.2
51 35.4 28.4 42.6
86 67.3 52.6 79.0

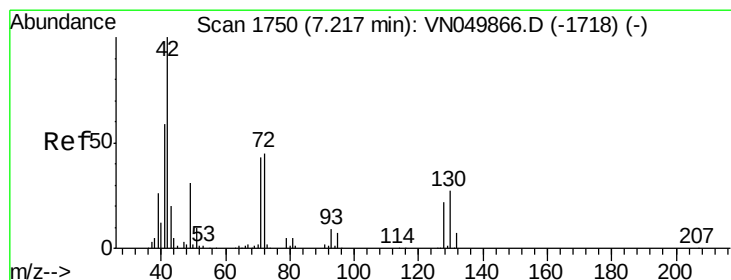
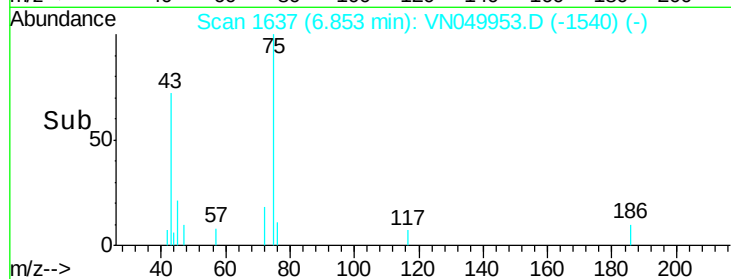
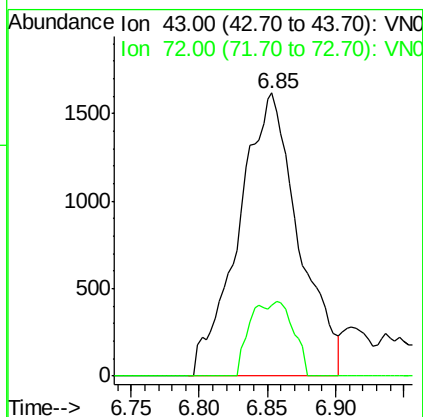
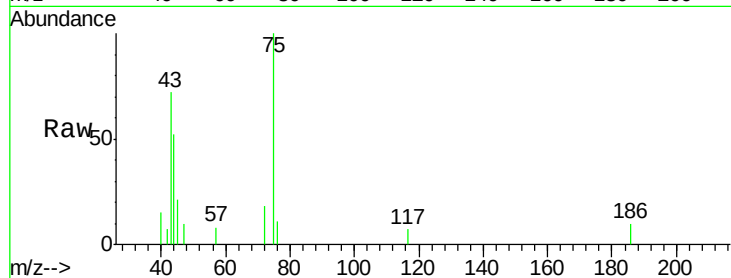




#25
2-Butanone
Concen: 1.70 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN049953.D
Acq: 20 Jul 2018 7:59

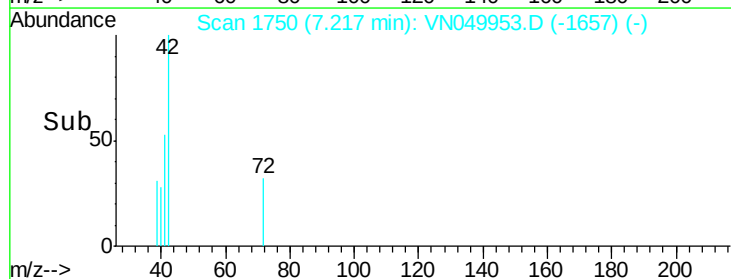
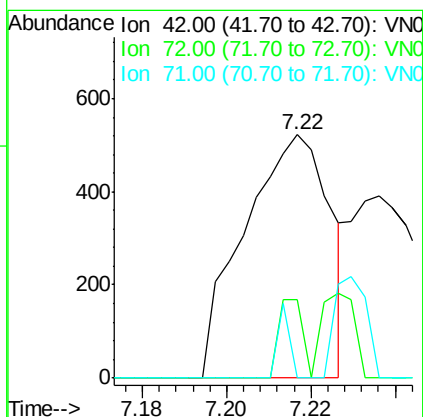
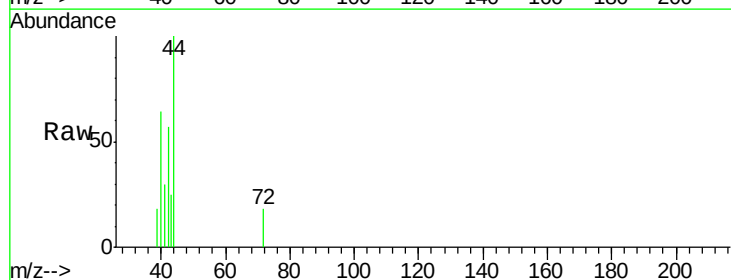
Instrument :
MSVOA_N
ClientSampleId :
SB4-U-23-13

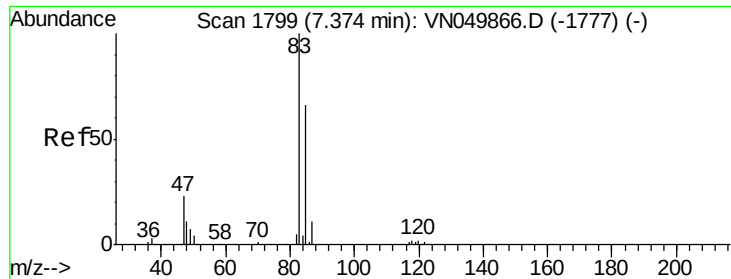
Tot Ion: 43 Resp: 4943
Ion Ratio Lower Upper
43 100
72 24.9 22.1 33.1



#29
Tetrahydrofuran
Concen: 0.40 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN049953.D
Acq: 20 Jul 2018 7:59

Tgt Ion: 42 Resp: 733
Ion Ratio Lower Upper
42 100
72 8.9 35.6 53.4#
71 4.2 34.0 51.0#

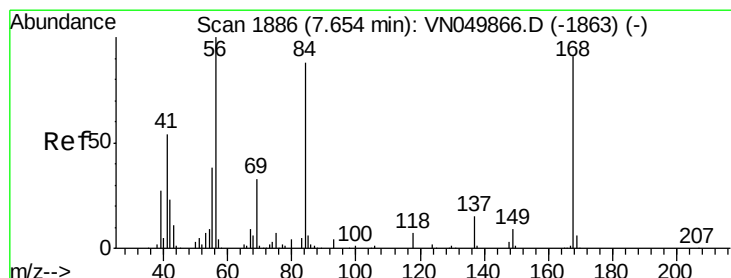
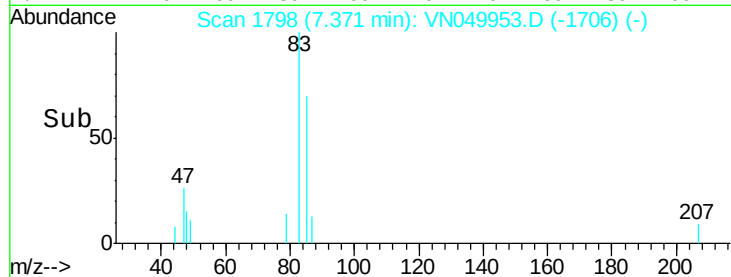
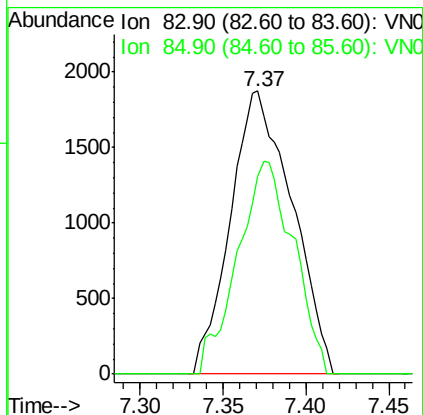
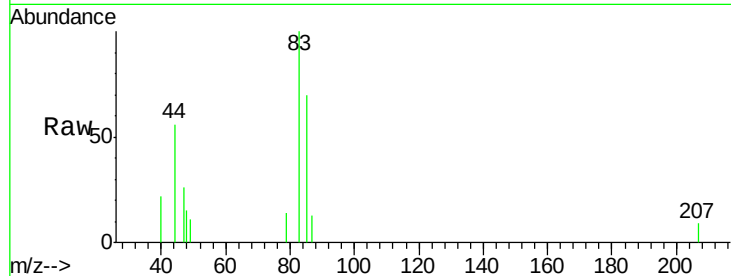




#30
Chloroform
Concen: 0.37 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN049953.D
Acq: 20 Jul 2018 7:59

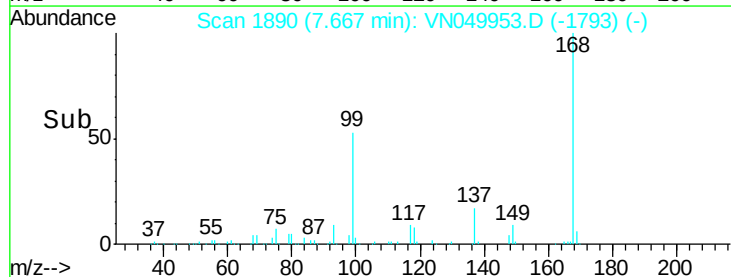
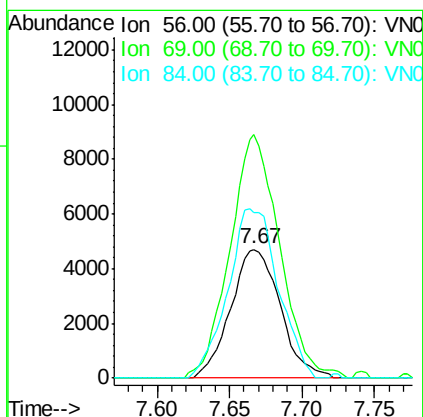
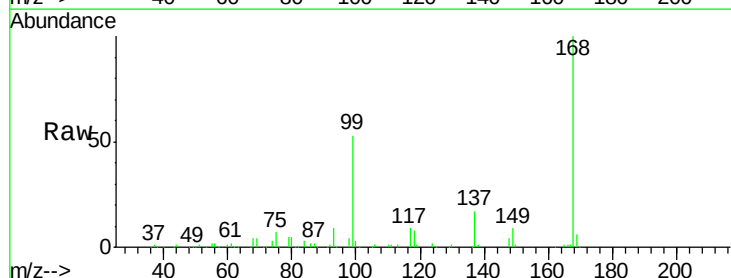
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ClientSampleId :
SB4-U-23-13

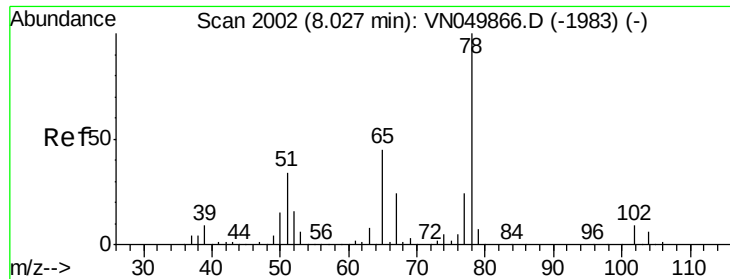
Tot Ion: 83 Resp: 4851
Ion Ratio Lower Upper
83 100
85 70.0 51.4 77.2



#31
Cyclohexane
Concen: 1.07 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049953.D
Acq: 20 Jul 2018 7:59

Tgt Ion: 56 Resp: 11185
Ion Ratio Lower Upper
56 100
69 184.5 26.6 40.0#
84 128.5 69.0 103.6#

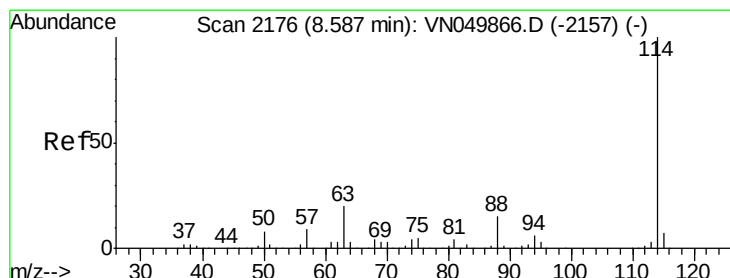
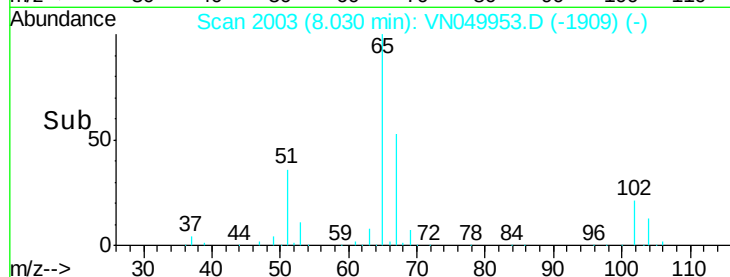
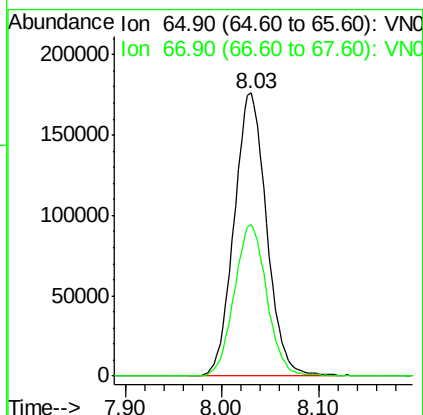
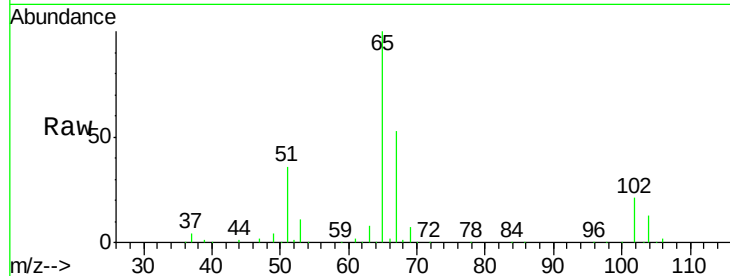




#33
 1,2-Dichloroethane-d4
 Concen: 52.39 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049953.D
 Acq: 20 Jul 2018 7:59

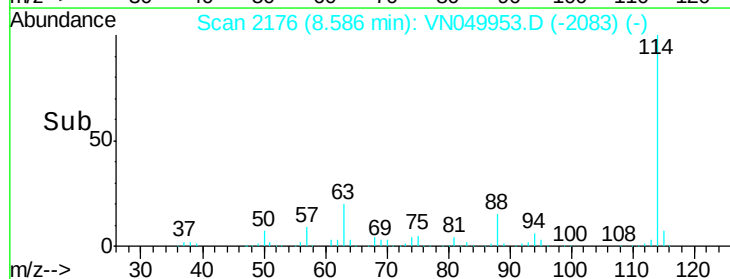
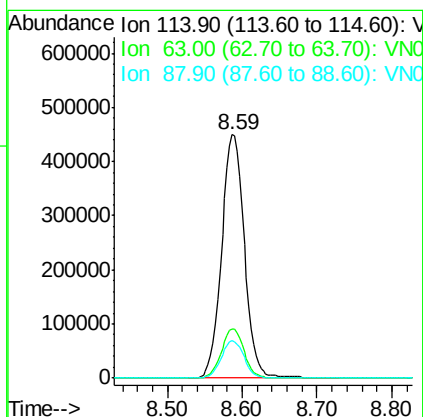
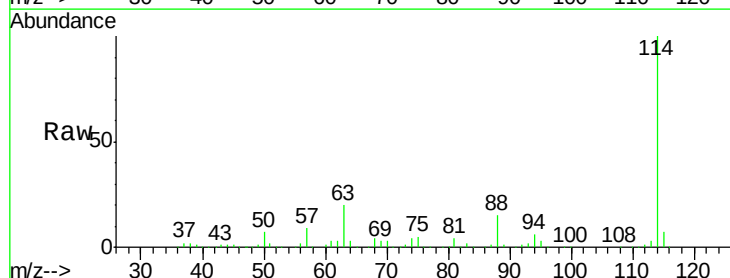
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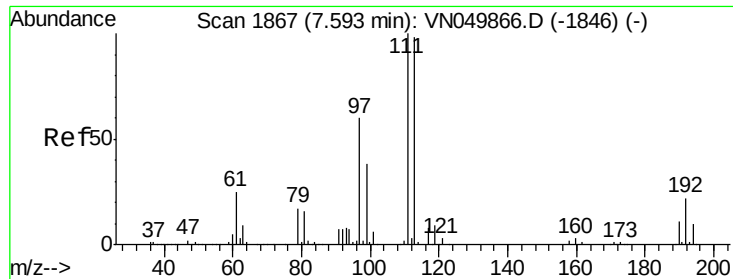
Tot Ion: 65 Resp: 411512
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049953.D
 Acq: 20 Jul 2018 7:59

Tgt Ion: 114 Resp: 947945
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.8
 88 15.4 0.0 30.6

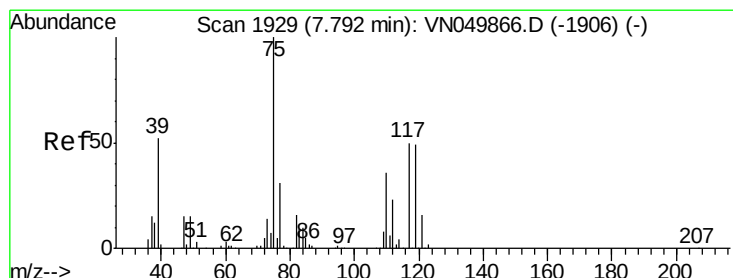
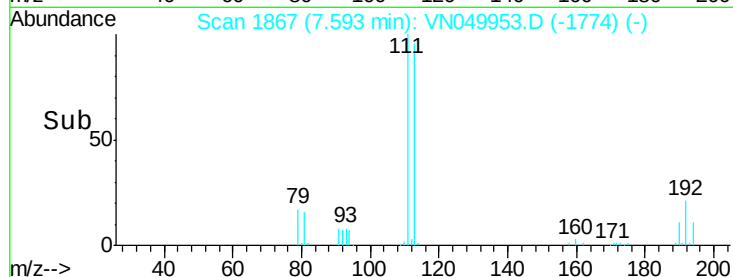
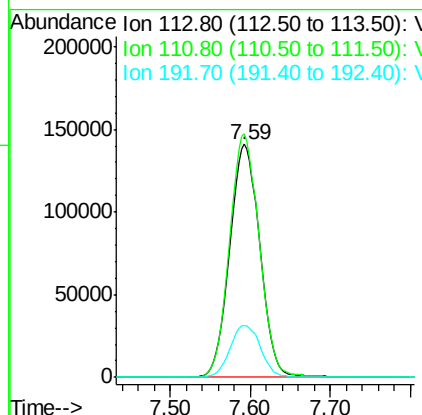
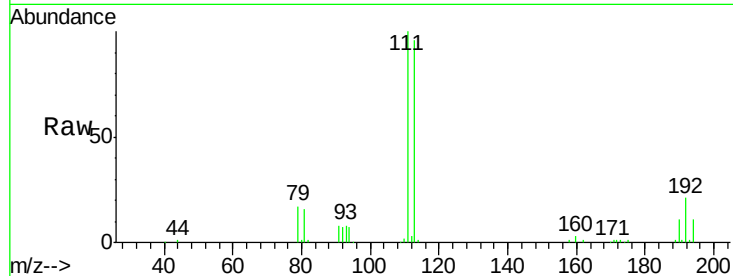




#35
 Dibromofluoromethane
 Concen: 45.38 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049953.D
 Acq: 20 Jul 2018 7:59

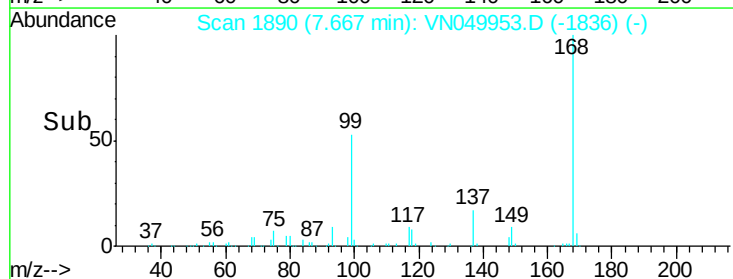
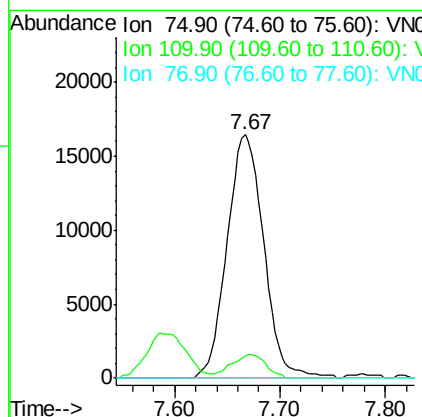
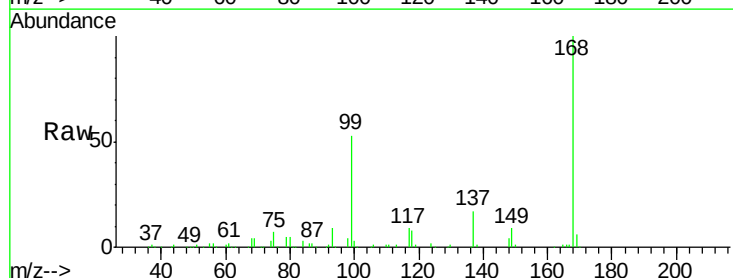
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 SB4-U-23-13

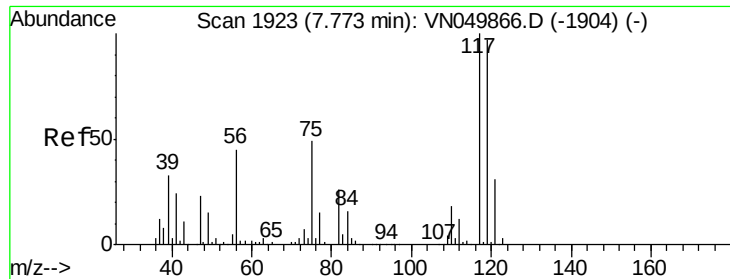
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.8	122.8
192	22.6	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.77 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049953.D
 Acq: 20 Jul 2018 7:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.1	54.4#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 4.59 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049953.D

Acq: 20 Jul 2018 7:59

Instrument :

MSVOA_N

ClientSampled :

SB4-U-23-13

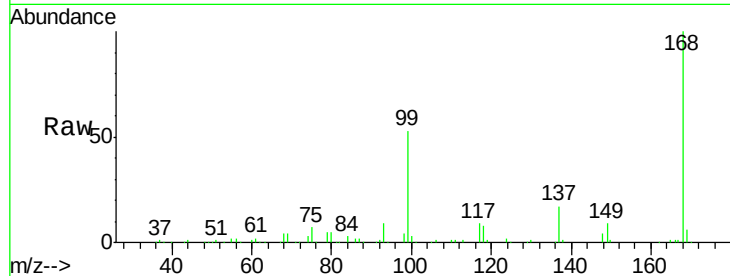
Tot Ion:117 Resp: 51811

Ion Ratio Lower Upper

117 100

119 6.4 77.2 115.8#

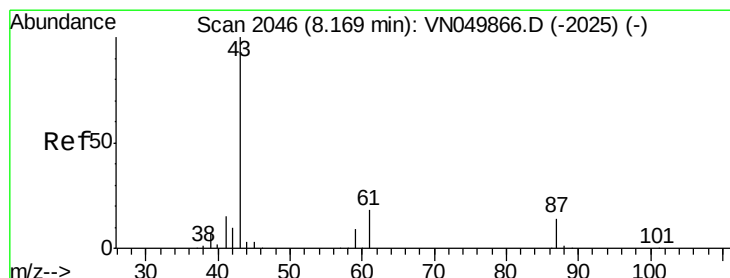
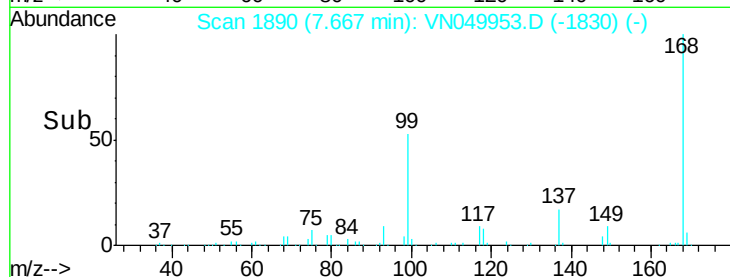
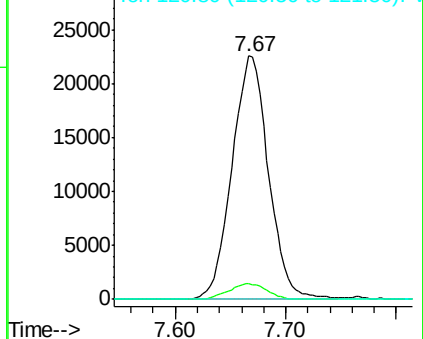
121 0.0 25.0 37.6#



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: 17.55 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VN049953.D

Acq: 20 Jul 2018 7:59

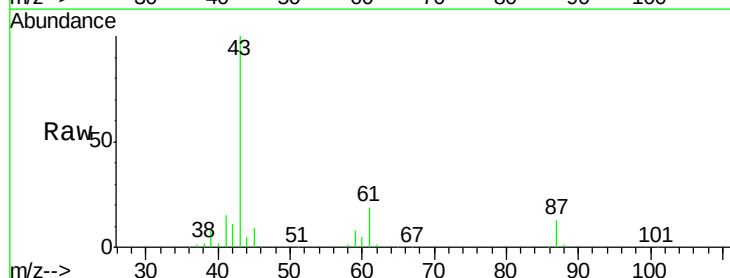
Tgt Ion: 43 Resp: 221961

Ion Ratio Lower Upper

43 100

61 17.0 14.9 22.3

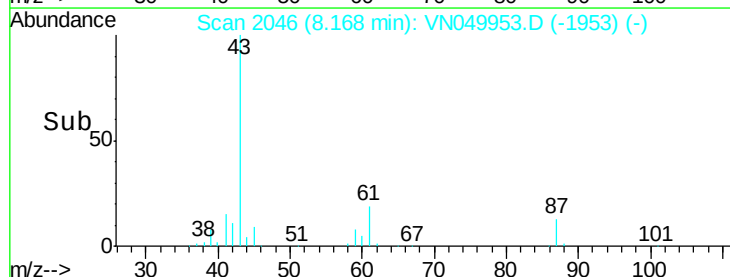
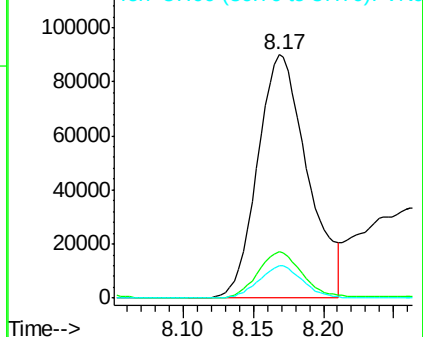
87 11.7 10.0 15.0

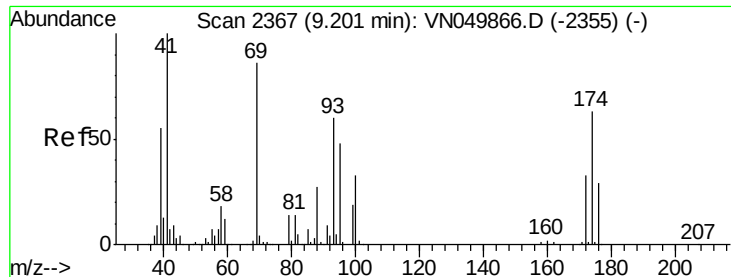


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

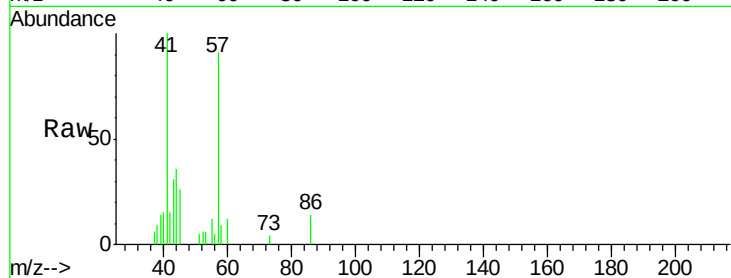




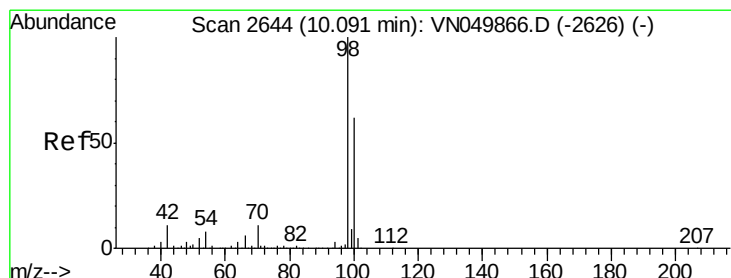
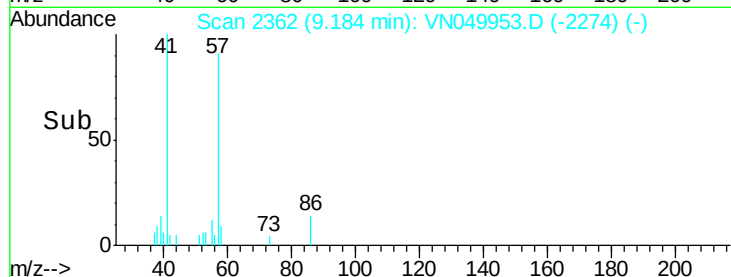
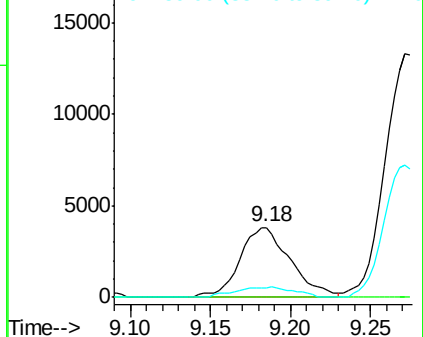
#48
Methvl methacrylate
Concen: 1.30 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN049953.D
Acq: 20 Jul 2018 7:59

Instrument :
MSVOA_N
ClientSampled :
SB4-U-23-13

Tot Ion: 41 Resp: 8251
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 17.2 44.7 67.1#

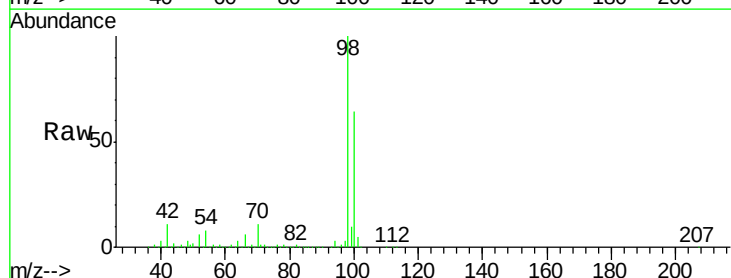


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

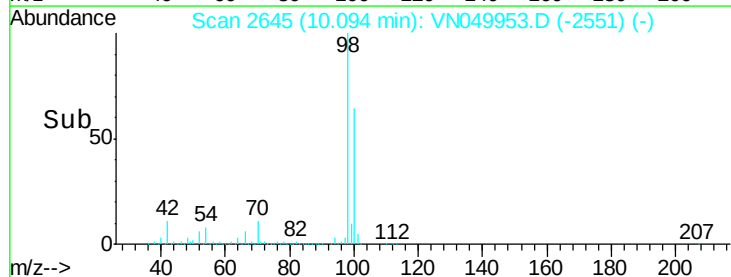
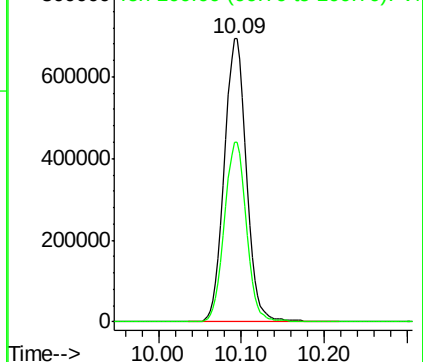


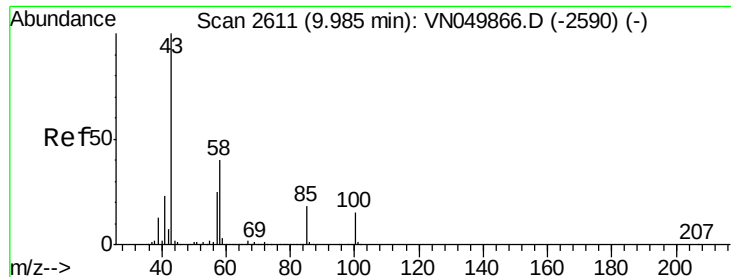
#50
Toluene-d8
Concen: 44.39 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049953.D
Acq: 20 Jul 2018 7:59

Tgt Ion: 98 Resp: 1287046
Ion Ratio Lower Upper
98 100
100 63.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.35 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN049953.D

Acq: 20 Jul 2018 7:59

Instrument :

MSVOA_N

ClientSampled :

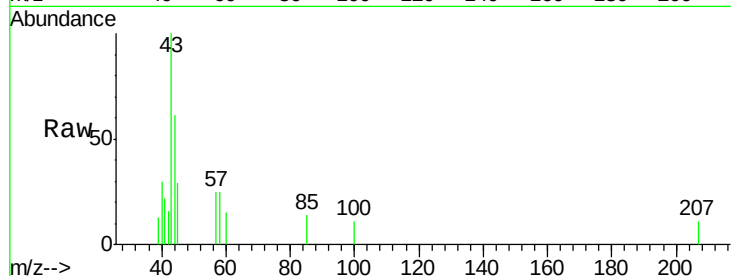
SB4-U-23-13

Tot Ion: 43 Resp: 2458

Ion Ratio Lower Upper

43 100

58 33.1 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-2590) (-)

Ion 58.00 (57.70 to 58.70): VN049866.D (-2590) (-)

9.99

1500

1000

500

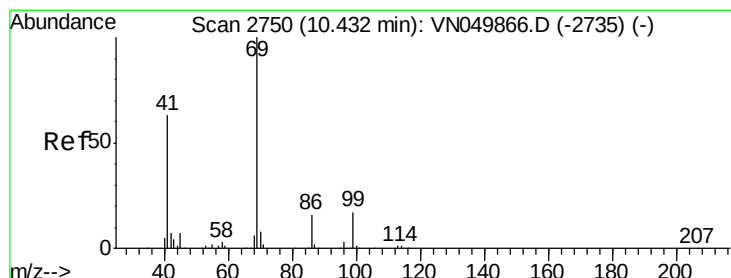
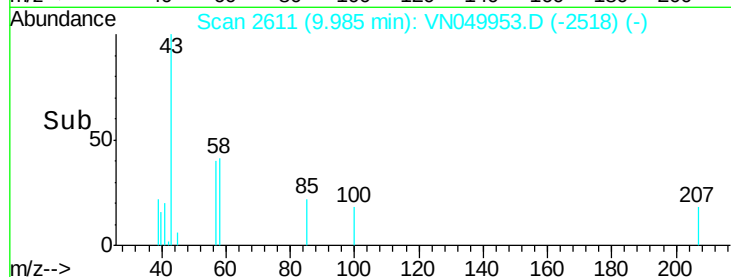
0

9.95

10.00

10.05

Time-->



#56

Ethyl methacrylate

Concen: 2.35 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.21 min

Lab File: VN049953.D

Acq: 20 Jul 2018 7:59

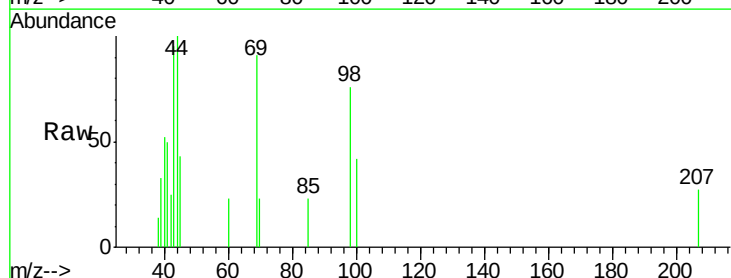
Tgt Ion: 69 Resp: 2092

Ion Ratio Lower Upper

69 100

41 73.5 51.6 77.4

39 36.5 25.8 38.8



Abundance Ion 69.00 (68.70 to 69.70): VN049866.D (-2735) (-)

Ion 41.00 (40.70 to 41.70): VN049866.D (-2735) (-)

Ion 39.00 (38.70 to 39.70): VN049866.D (-2735) (-)

10.23

1500

1000

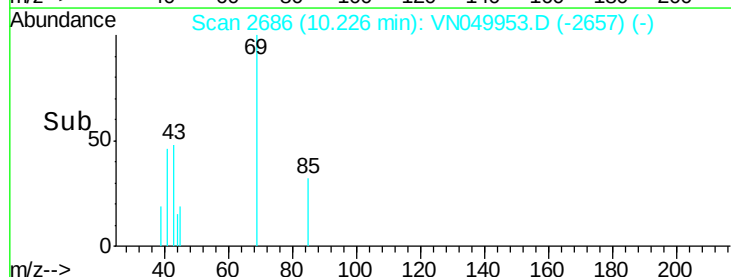
500

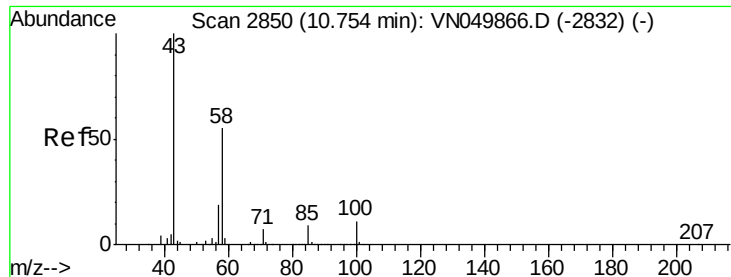
0

10.20

10.25

Time-->





#59

2-Hexanone

Concen: 3.34 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049953.D

Acq: 20 Jul 2018 7:59

Instrument :

MSVOA_N

ClientSampled :

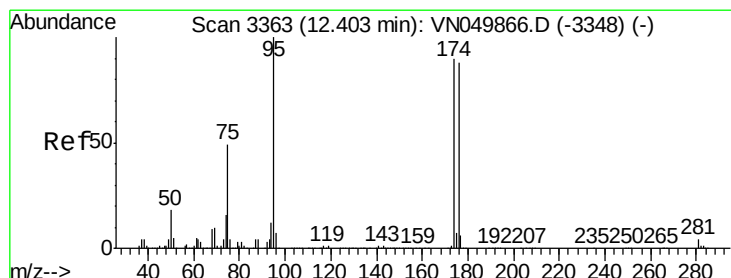
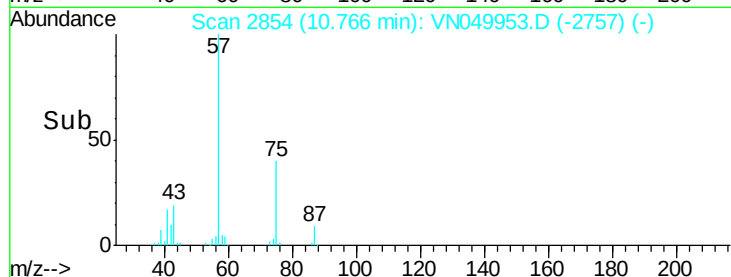
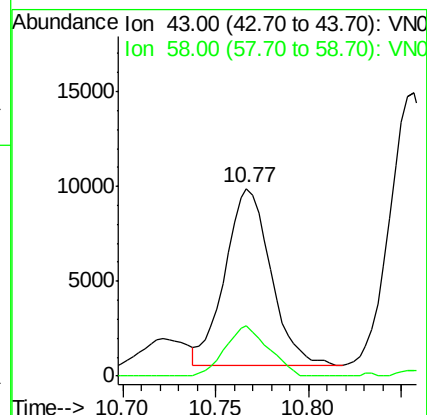
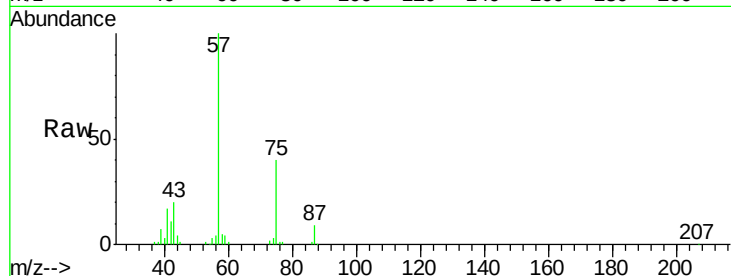
SB4-U-23-13

Tot Ion: 43 Resp: 15846

Ion Ratio Lower Upper

43 100

58 27.0 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 35.04 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049953.D

Acq: 20 Jul 2018 7:59

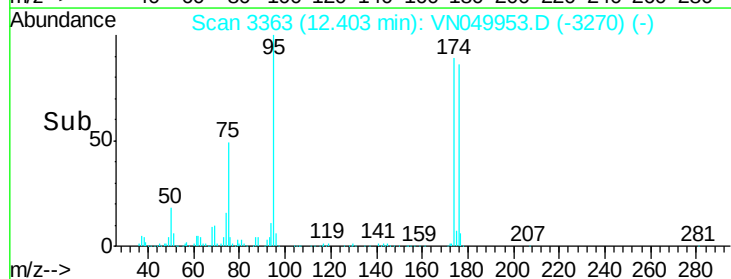
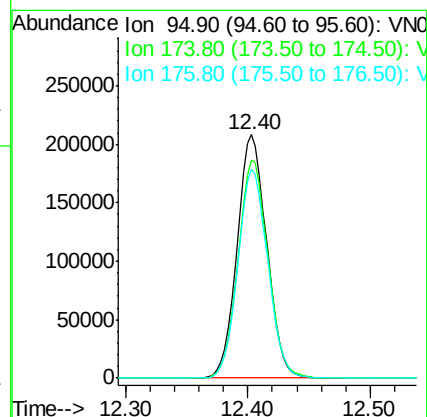
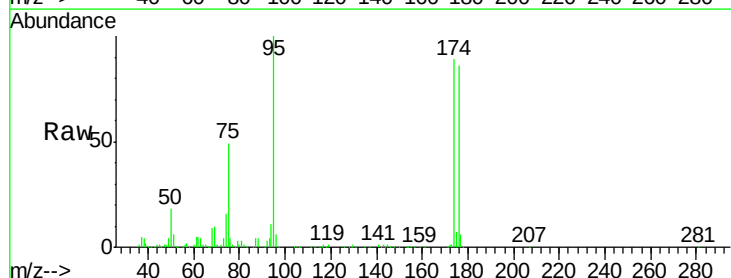
Tgt Ion: 95 Resp: 349914

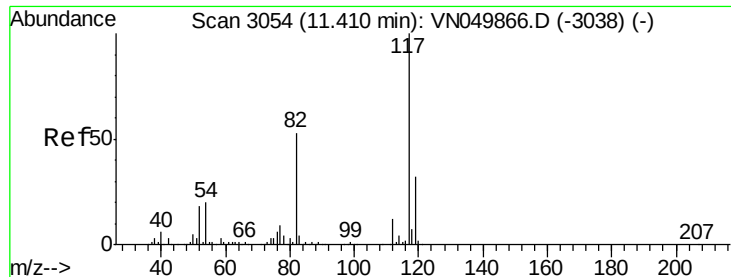
Ion Ratio Lower Upper

95 100

174 90.5 0.0 179.6

176 86.5 0.0 174.0

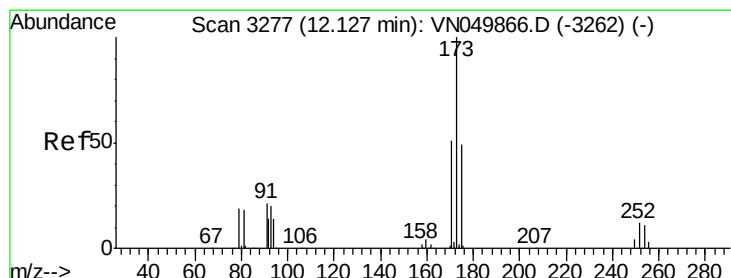
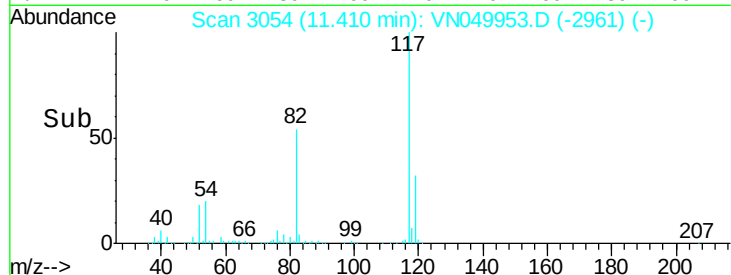
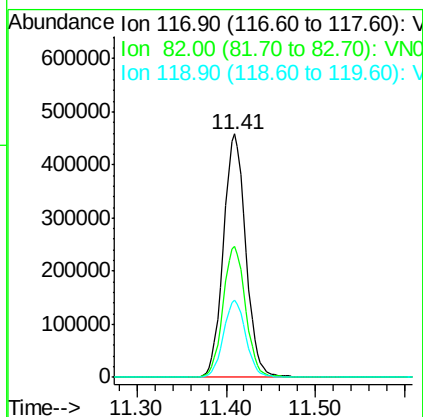
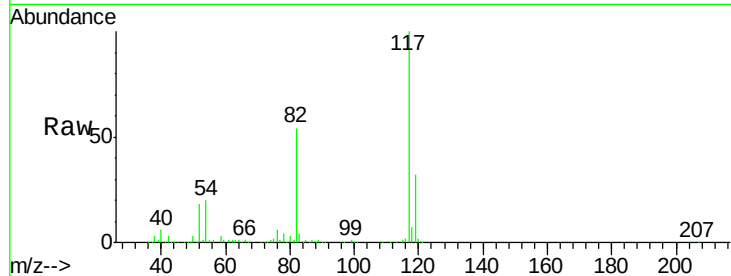




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049953.D
Acq: 20 Jul 2018 7:59

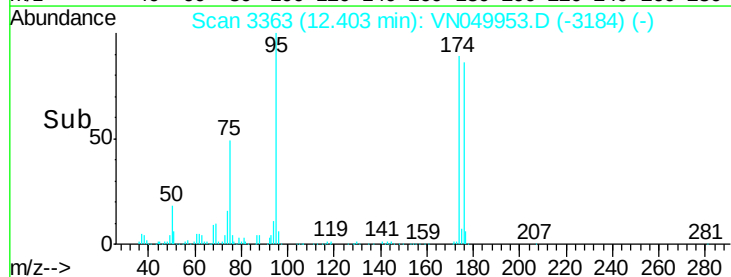
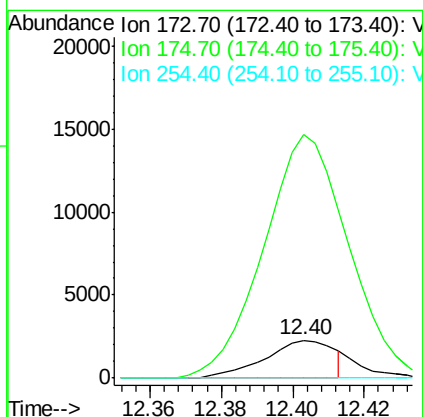
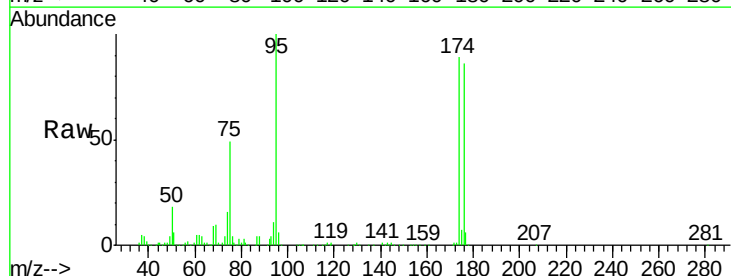
Instrument :
MSVOA_N
ClientSampled :
SB4-U-23-13

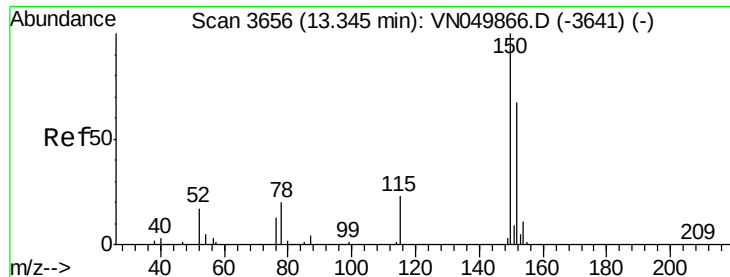
Tot Ion:117 Resp: 797055
Ion Ratio Lower Upper
117 100
82 53.6 41.9 62.9
119 31.7 25.4 38.2



#71
Bromoform
Concen: 0.55 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049953.D
Acq: 20 Jul 2018 7:59

Tgt Ion:173 Resp: 3049
Ion Ratio Lower Upper
173 100
175 651.5 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049953.D

Acq: 20 Jul 2018 7:59

Instrument :

MSVOA_N

ClientSampleId :

SB4-U-23-13

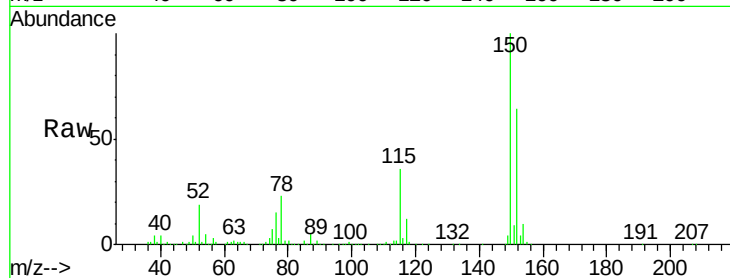
Tot Ion:152 Resp: 285064

Ion Ratio Lower Upper

152 100

115 57.3 28.1 84.2

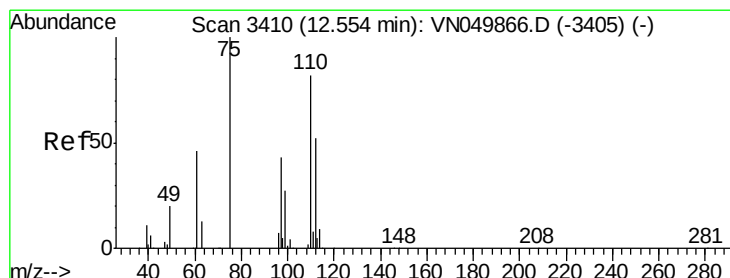
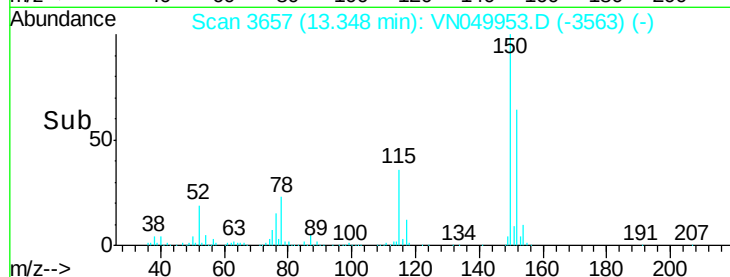
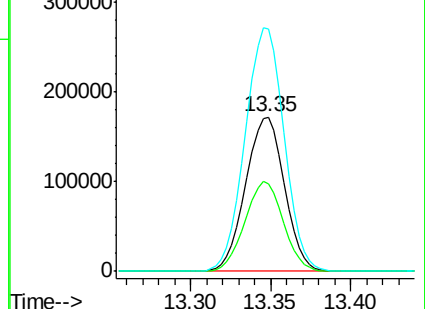
150 158.0 0.0 347.6



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: 32.04 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049953.D

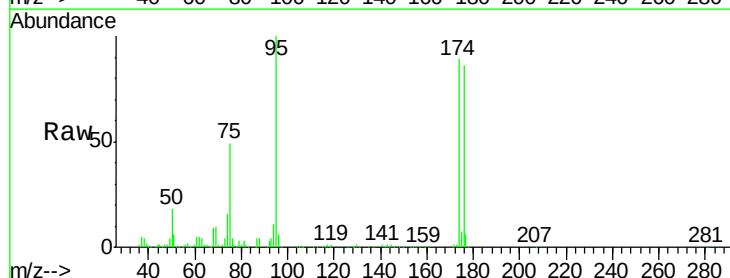
Acq: 20 Jul 2018 7:59

Tgt Ion: 75 Resp: 171333

Ion Ratio Lower Upper

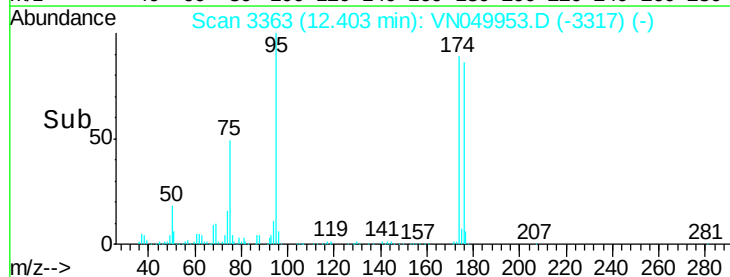
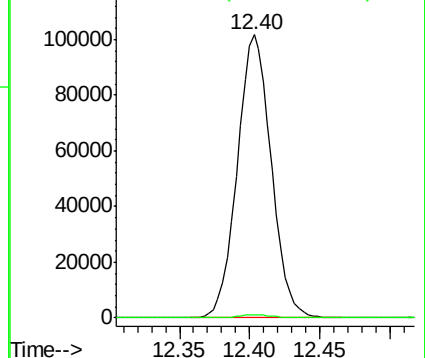
75 100

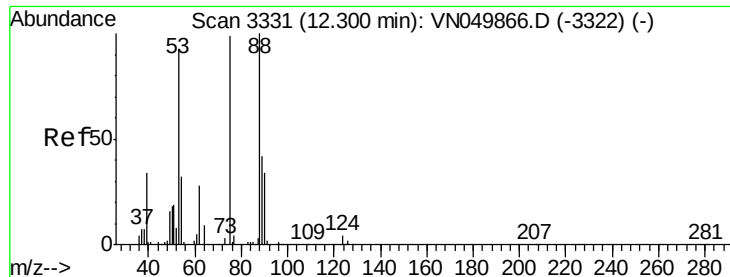
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 100.19 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049953.D

Acq: 20 Jul 2018 7:59

Instrument :

MSVOA_N

ClientSampled :

SB4-U-23-13

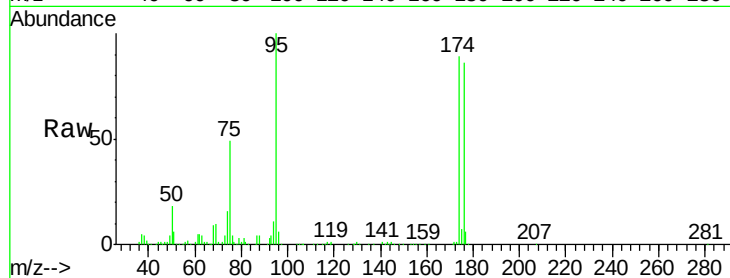
Tot Ion: 75 Resp: 171333

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

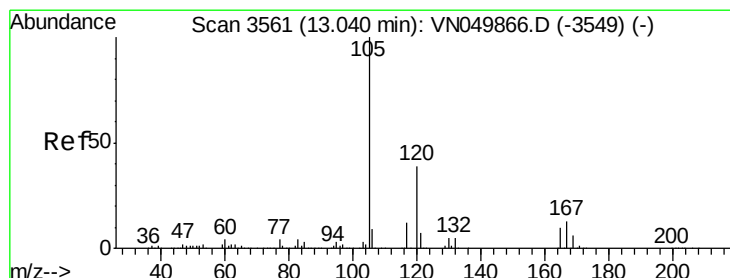
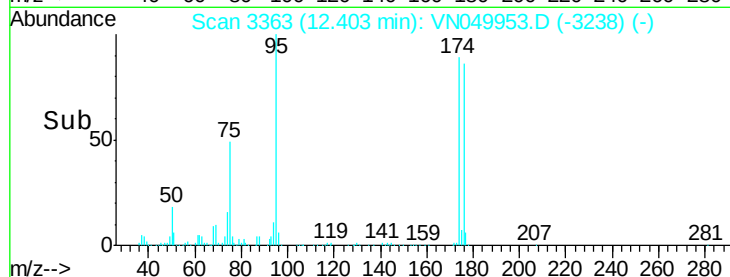
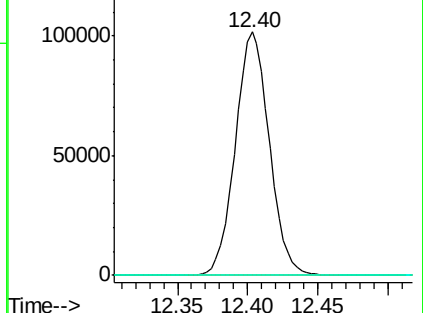
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN049953.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049953.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049953.D (-3363) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.21 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. -0.00 min

Lab File: VN049953.D

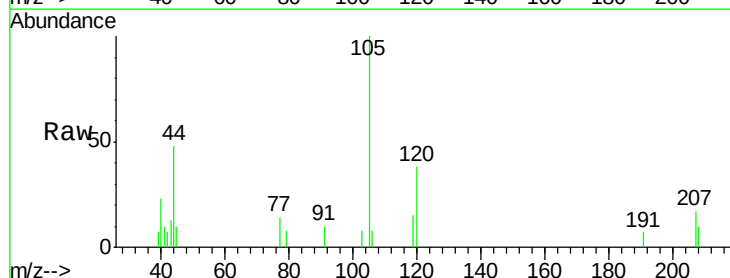
Acq: 20 Jul 2018 7:59

Tgt Ion: 105 Resp: 3639

Ion Ratio Lower Upper

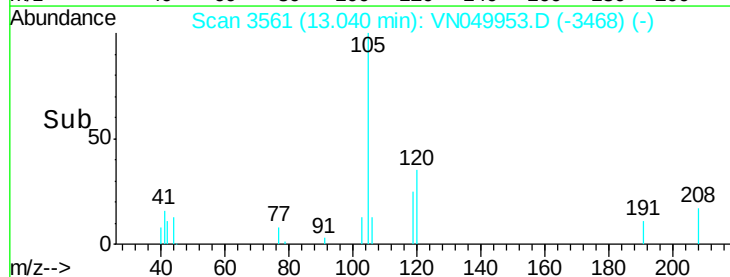
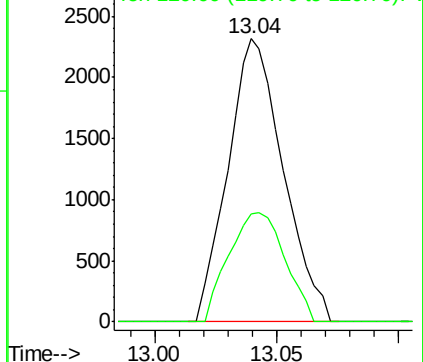
105 100

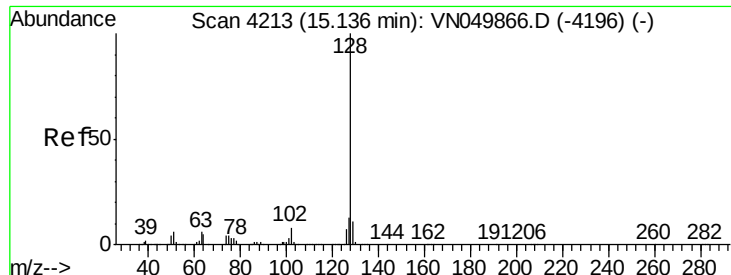
120 39.2 22.7 68.1



Abundance Ion 105.00 (104.70 to 105.70): VN049953.D (-3561) (-)

Ion 120.00 (119.70 to 120.70): VN049953.D (-3561) (-)

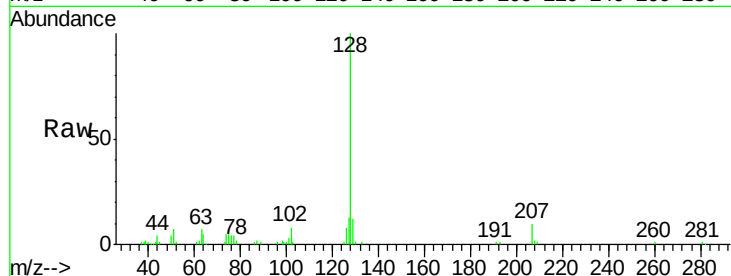




#95
Naphthalene
Concen: 8.81 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN049953.D
Acq: 20 Jul 2018 7:59

Instrument :
MSVOA_N
ClientSampleId :
SB4-U-23-13

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.4	15.6
129	10.7	8.6	13.0



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

