

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072018\
 Data File : VN049977.D
 Acq On : 20 Jul 2018 21:33
 Operator : MD\SY
 Sample : J3828-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EO-02-071818-A

Quant Time: Jul 20 23:51:12 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	545386	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	937003	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	788886	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	300174	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	400613	53.44	ug/l	0.00
Spiked Amount			Recovery	=	106.88%	
35) Dibromofluoromethane	7.59	113	354107	45.02	ug/l	0.00
Spiked Amount			Recovery	=	90.04%	
50) Toluene-d8	10.09	98	1252706	43.71	ug/l	0.00
Spiked Amount			Recovery	=	87.42%	
62) 4-Bromofluorobenzene	12.40	95	347022	35.16	ug/l	0.00
Spiked Amount			Recovery	=	70.32%	

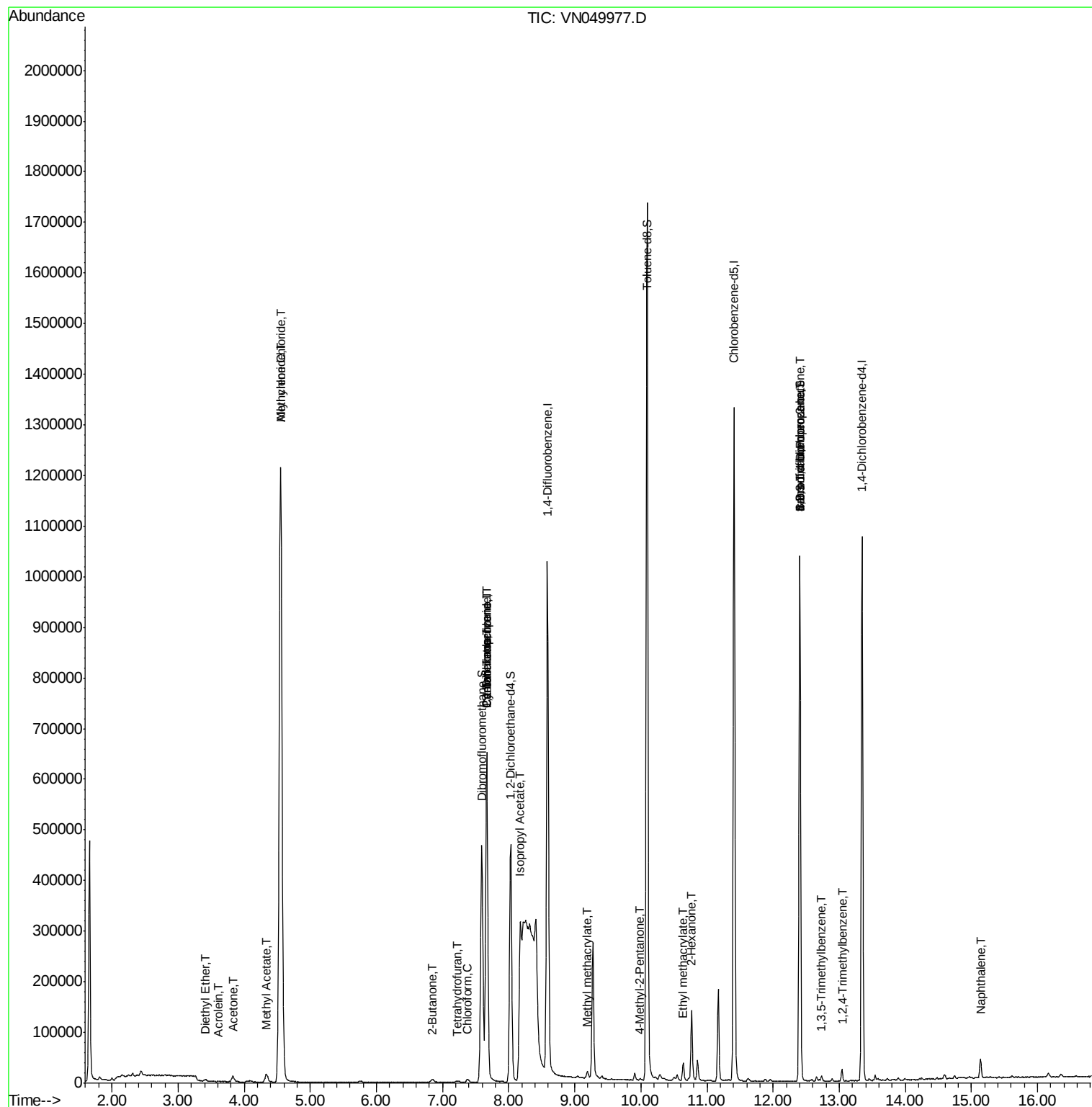
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	200	Below Cal		85
8) Diethyl Ether	3.41	74	1780	0.47 ug/l		59
13) Acrolein	3.61	56	167	0.49 ug/l #		59
14) Allyl chloride	4.55	41	33220	3.56 ug/l #		25
16) Acetone	3.83	43	19858	10.23 ug/l		97
18) Methyl Acetate	4.34	43	29722	4.12 ug/l		98
20) Methylene Chloride	4.55	84	940406	127.42 ug/l		99
25) 2-Butanone	6.86	43	3939	1.42 ug/l #		89
29) Tetrahydrofuran	7.22	42	1871	1.07 ug/l #		75
30) Chloroform	7.37	83	6102	0.49 ug/l		89
31) Cyclohexane	7.67	56	10441	1.05 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	38495	3.69 ug/l #		49
38) Carbon Tetrachloride	7.67	117	49669	4.45 ug/l #		17
43) Isopropyl Acetate	8.18	43	346036	27.69 ug/l #		89
48) Methyl methacrylate	9.18	41	8263	1.32 ug/l #		22
51) 4-Methyl-2-Pentanone	9.98	43	1842	0.26 ug/l		91
56) Ethyl methacrylate	10.64	69	751	2.23 ug/l #		1
59) 2-Hexanone	10.77	43	19911	4.24 ug/l #		57
71) Bromoform	12.41	173	3178	0.58 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	170963	30.36 ug/l #		100
80) 1,3,5-Trimethylbenzene	12.73	105	4632	0.25 ug/l		89
81) trans-1,4-Dichloro-2-buten	12.40	75	170963	94.94 ug/l #		13
84) 1,2,4-Trimethylbenzene	13.04	105	13383	0.72 ug/l		95
95) Naphthalene	15.14	128	33937	6.66 ug/l		97

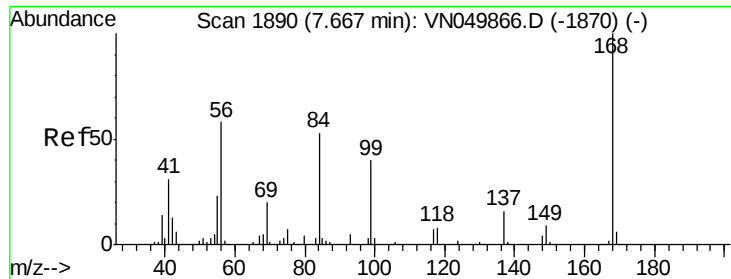
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 19 01:58:39 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049977.D

Acq: 20 Jul 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

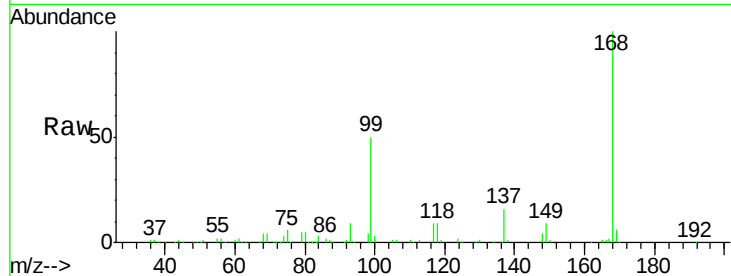
EO-02-071818-A

Tot Ion:168 Resp: 545386

Ion Ratio Lower Upper

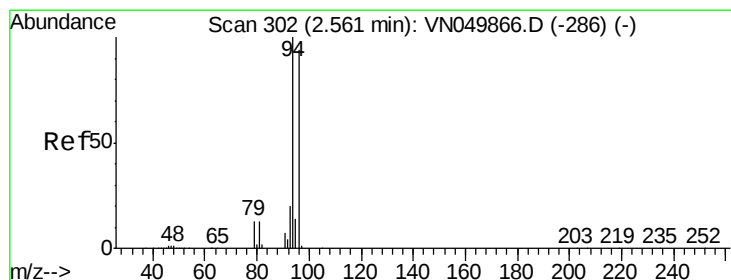
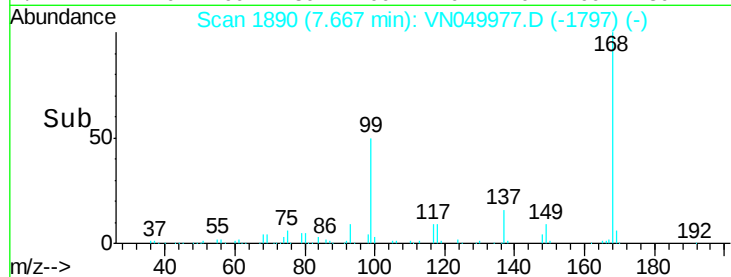
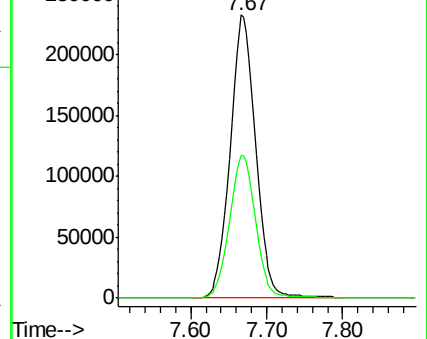
168 100

99 50.4 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 300

Delta R.T. -0.01 min

Lab File: VN049977.D

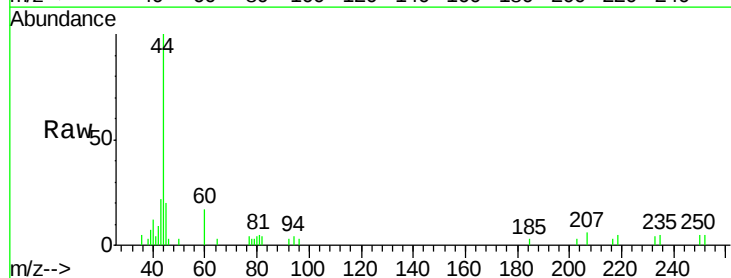
Acq: 20 Jul 2018 21:33

Tgt Ion: 94 Resp: 200

Ion Ratio Lower Upper

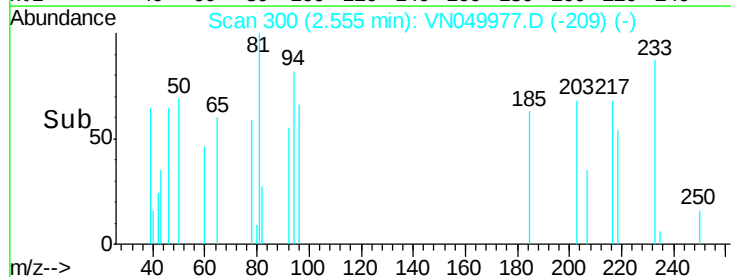
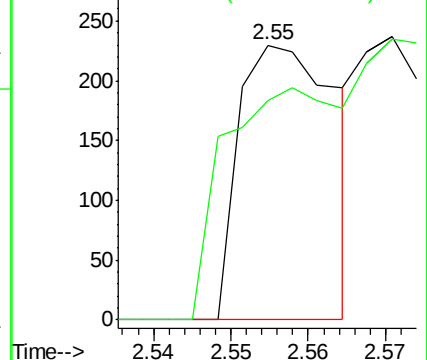
94 100

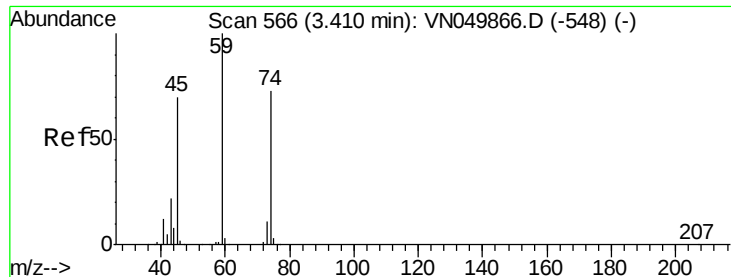
96 80.0 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#8

Diethyl Ether

Concen: 0.47 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN049977.D

Acq: 20 Jul 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

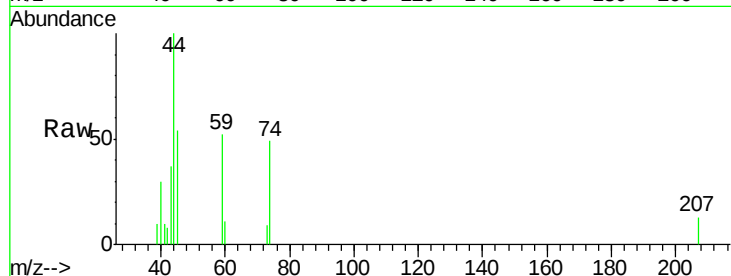
EO-02-071818-A

Tot Ion: 74 Resp: 1780

Ion Ratio Lower Upper

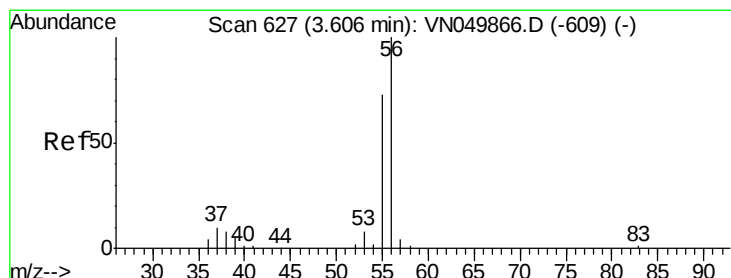
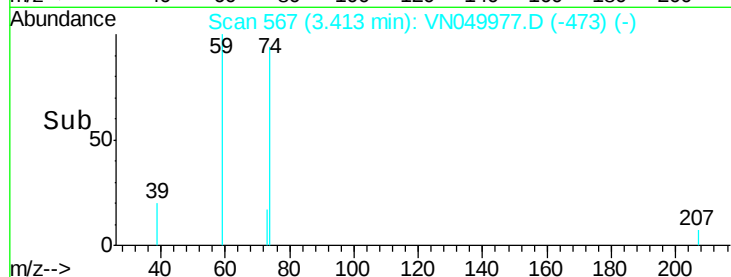
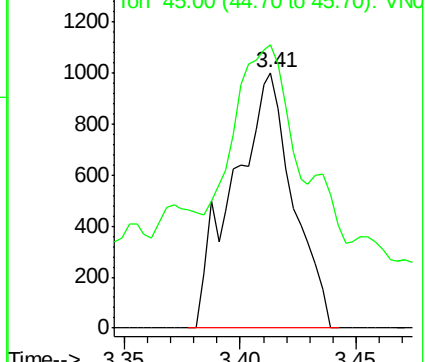
74 100

45 56.7 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VN049977.D (-473) (-)

Ion 45.00 (44.70 to 45.70): VN049977.D (-473) (-)



#13

Acrolein

Concen: 0.49 ug/l

RT: 3.61 min Scan# 627

Delta R.T. 0.00 min

Lab File: VN049977.D

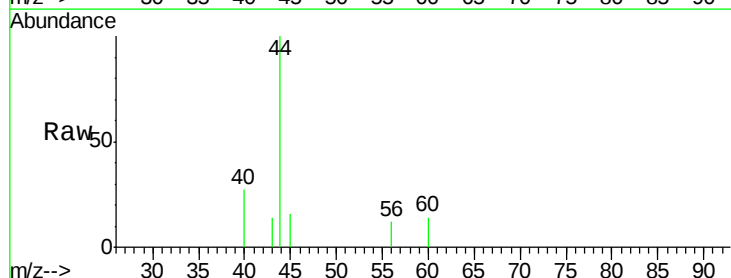
Acq: 20 Jul 2018 21:33

Tgt Ion: 56 Resp: 167

Ion Ratio Lower Upper

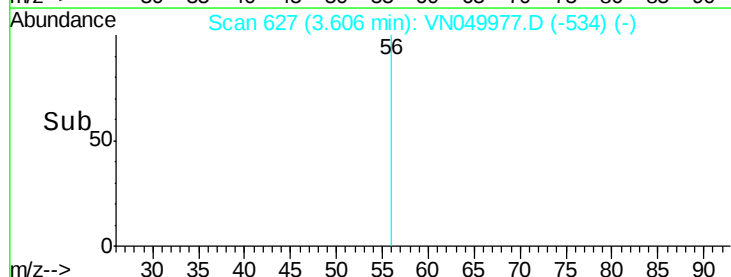
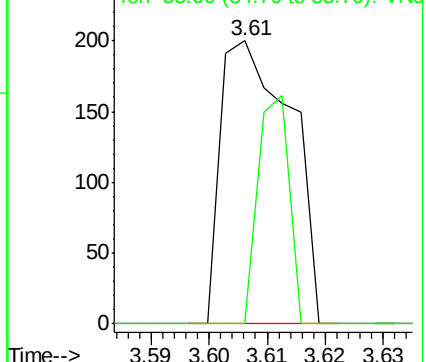
56 100

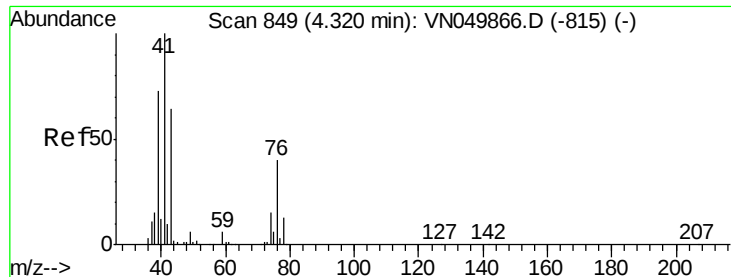
55 35.9 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VN049977.D (-534) (-)

Ion 55.00 (54.70 to 55.70): VN049977.D (-534) (-)





#14

Allvl chloride

Concen: 3.56 ug/l

RT: 4.55 min Scan# 920

Delta R.T. 0.23 min

Lab File: VN049977.D

Acq: 20 Jul 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

EO-02-071818-A

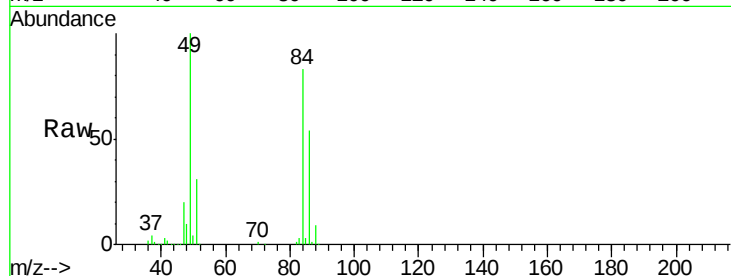
Tot Ion: 41 Resp: 33220

Ion Ratio Lower Upper

41 100

39 0.5 53.2 79.8#

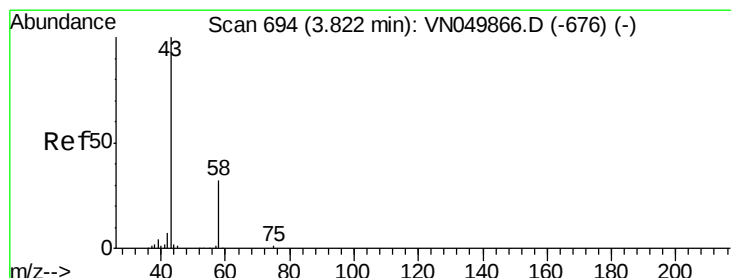
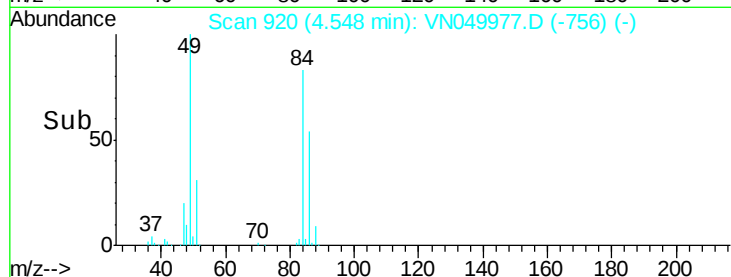
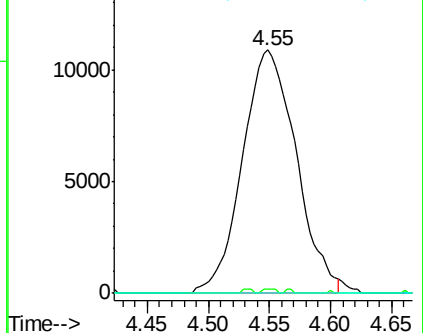
76 0.0 29.0 43.6#



Abundance Ion 41.00 (40.70 to 41.70): VN049977.D (-920) (-)

Ion 39.00 (38.70 to 39.70): VN049977.D (-920) (-)

Ion 75.90 (75.60 to 76.60): VN049977.D (-920) (-)



#16

Acetone

Concen: 10.23 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049977.D

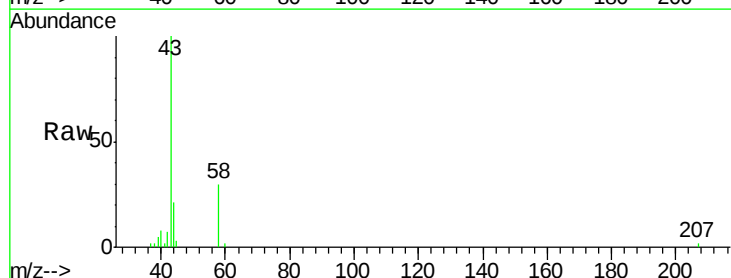
Acq: 20 Jul 2018 21:33

Tgt Ion: 43 Resp: 19858

Ion Ratio Lower Upper

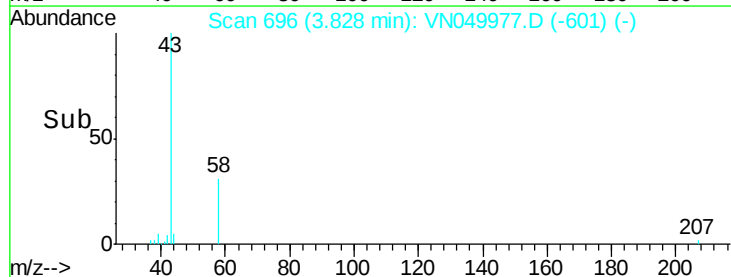
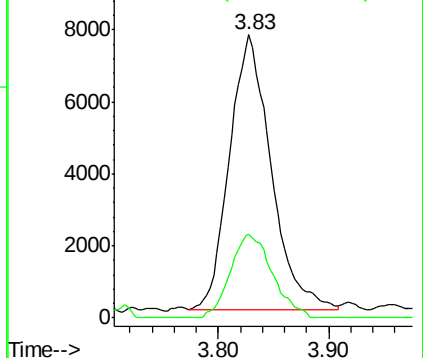
43 100

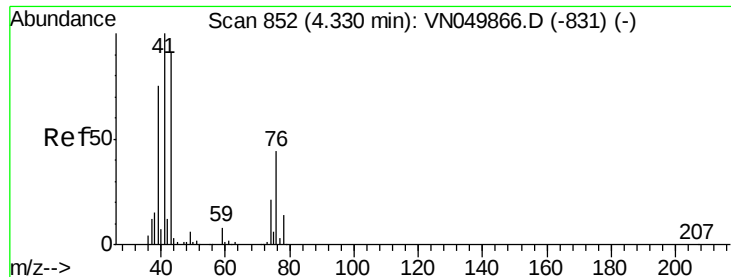
58 30.6 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN049977.D (-696) (-)

Ion 58.00 (57.70 to 58.70): VN049977.D (-696) (-)

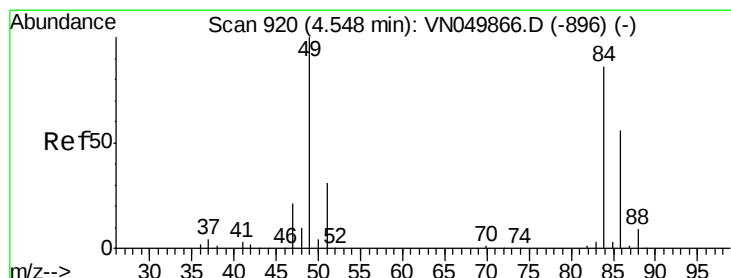
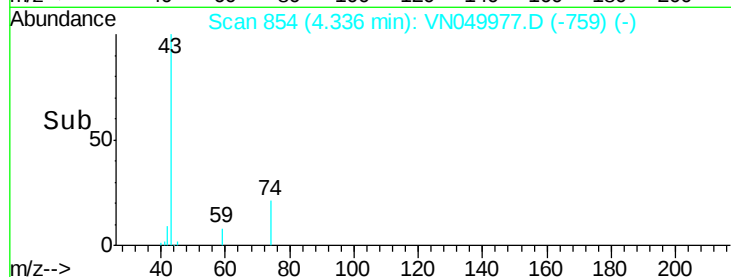
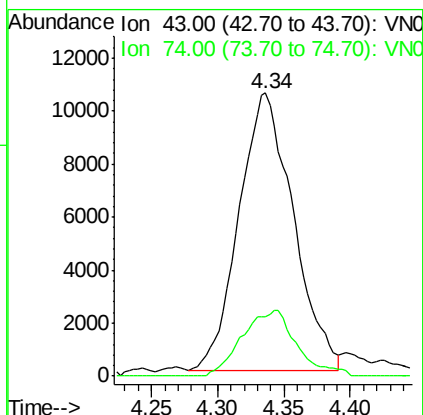
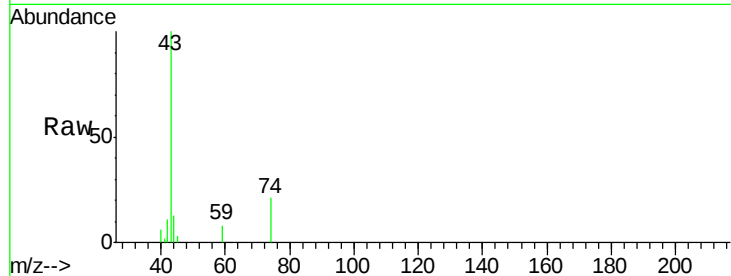




#18
Methvl Acetate
Concen: 4.12 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049977.D
Acq: 20 Jul 2018 21:33

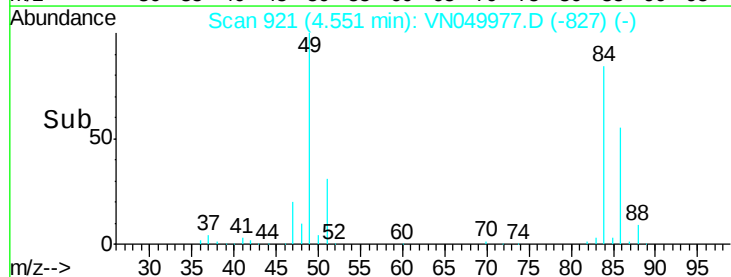
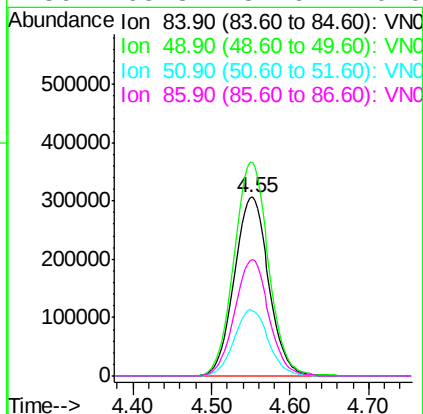
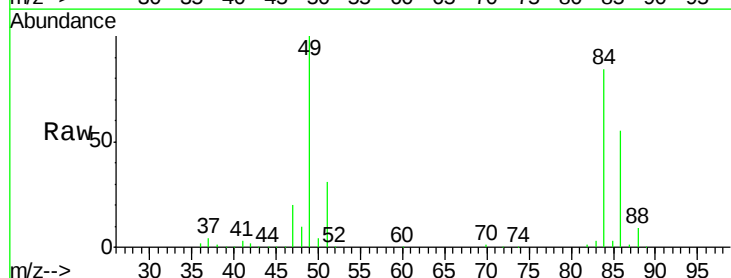
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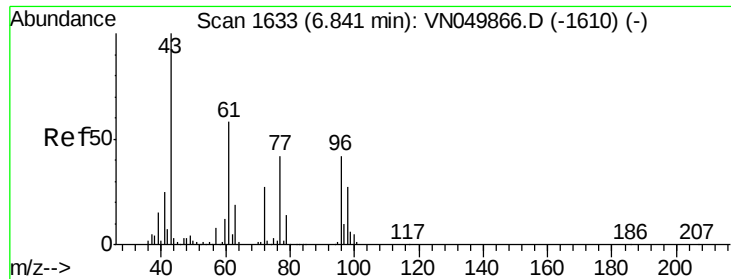
Tot Ion: 43 Resp: 29722
Ion Ratio Lower Upper
43 100
74 23.9 19.8 29.8



#20
Methylene Chloride
Concen: 127.42 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049977.D
Acq: 20 Jul 2018 21:33

Tgt Ion: 84 Resp: 940406
Ion Ratio Lower Upper
84 100
49 119.6 95.4 143.2
51 36.7 28.4 42.6
86 65.3 52.6 79.0





#25

2-Butanone

Concen: 1.42 ug/l

RT: 6.86 min Scan# 1638

Delta R.T. 0.02 min

Lab File: VN049977.D

Acq: 20 Jul 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

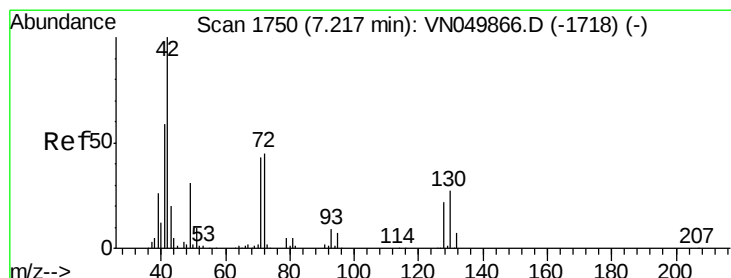
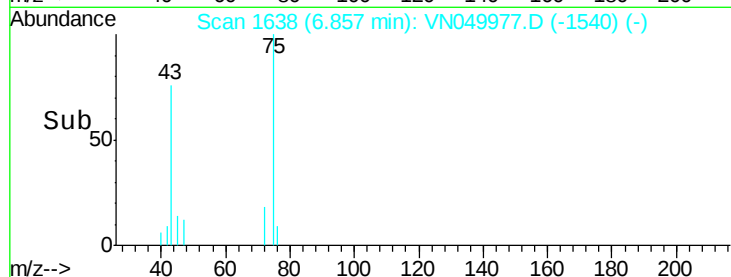
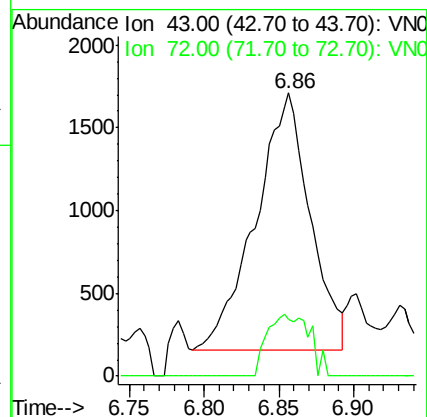
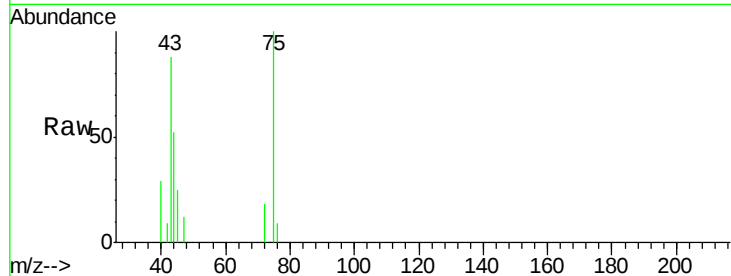
EO-02-071818-A

Tot Ion: 43 Resp: 3939

Ion Ratio Lower Upper

43 100

72 22.1 22.1 33.1#



#29

Tetrahydrofuran

Concen: 1.07 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN049977.D

Acq: 20 Jul 2018 21:33

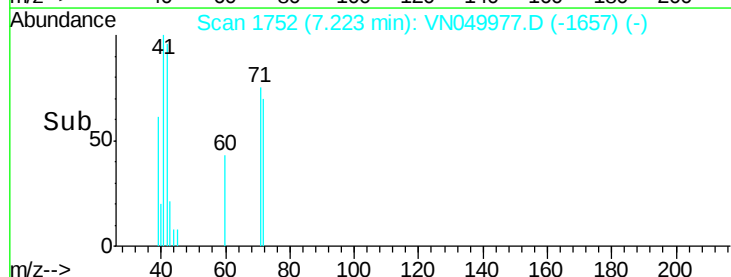
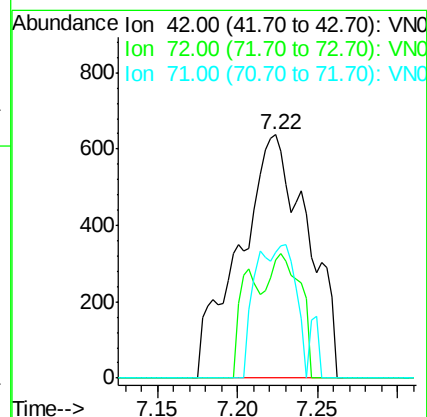
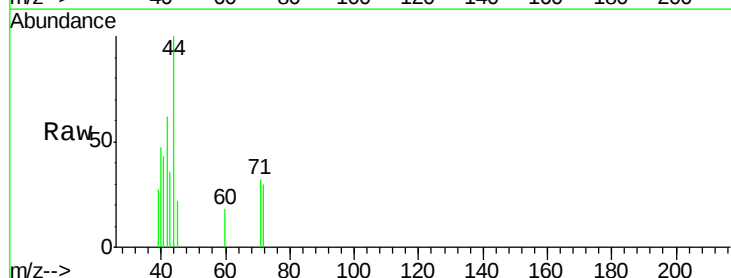
Tgt Ion: 42 Resp: 1871

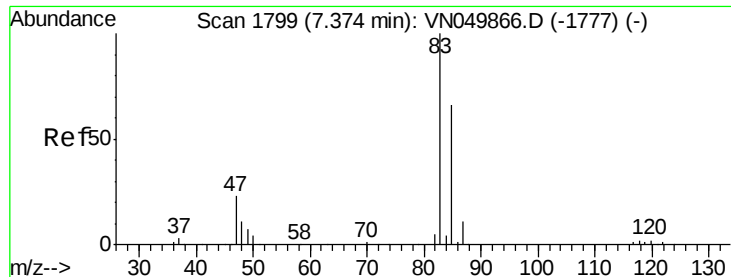
Ion Ratio Lower Upper

42 100

72 22.6 35.6 53.4#

71 32.2 34.0 51.0#

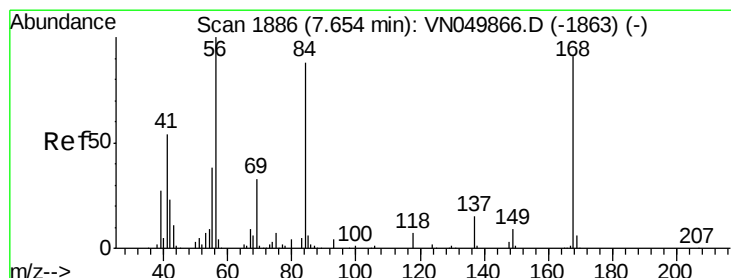
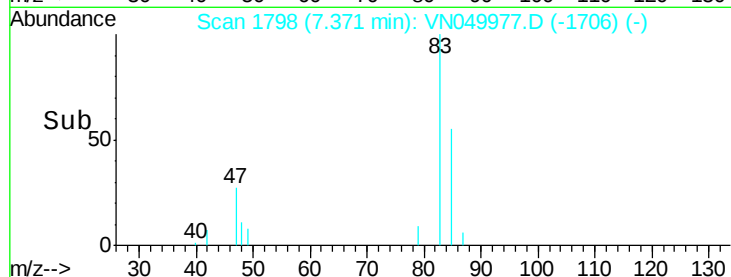
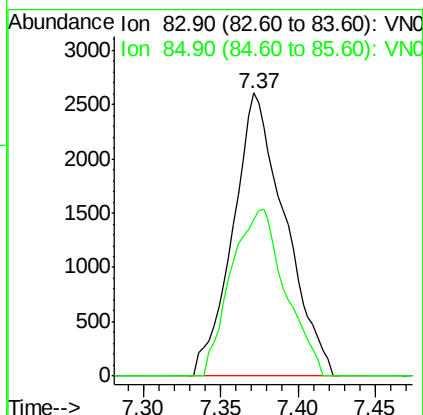
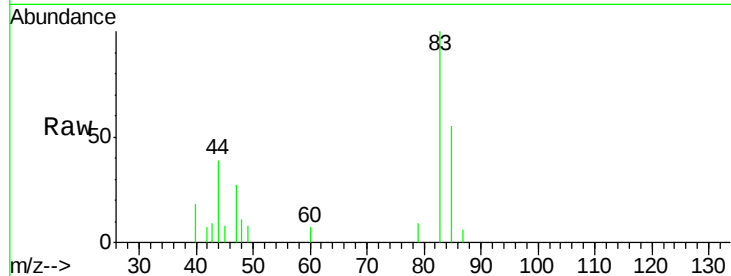




#30
Chloroform
Concen: 0.49 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN049977.D
Acq: 20 Jul 2018 21:33

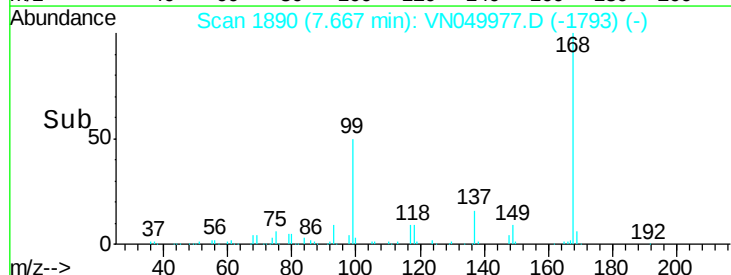
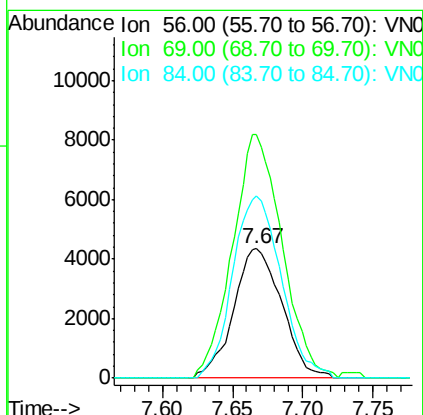
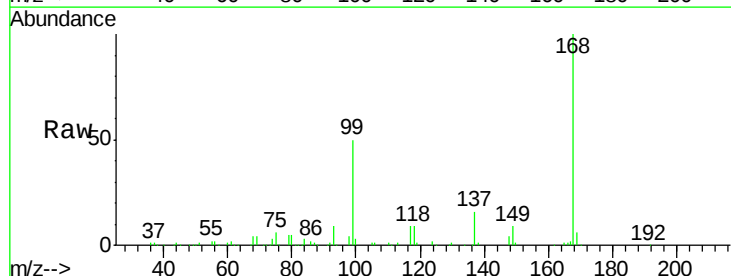
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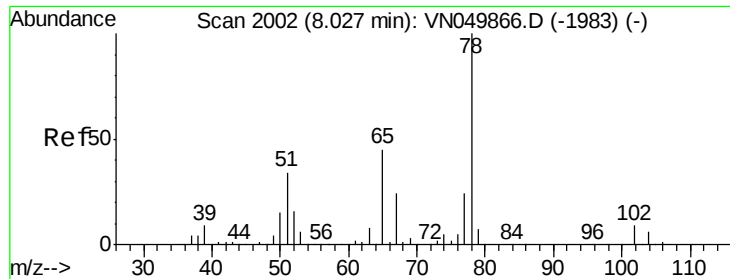
Tot Ion: 83 Resp: 6102
Ion Ratio Lower Upper
83 100
85 55.3 51.4 77.2



#31
Cyclohexane
Concen: 1.05 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049977.D
Acq: 20 Jul 2018 21:33

Tgt Ion: 56 Resp: 10441
Ion Ratio Lower Upper
56 100
69 188.2 26.6 40.0#
84 141.3 69.0 103.6#

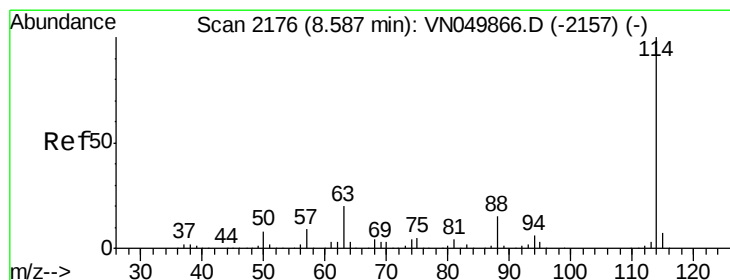
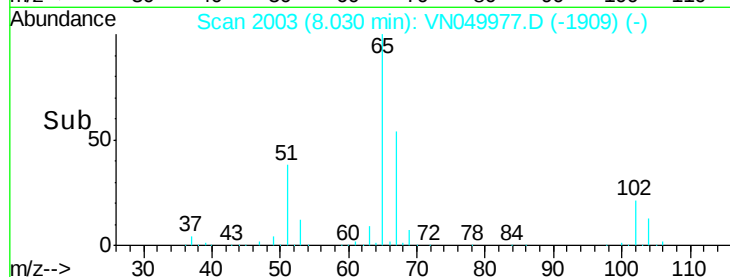
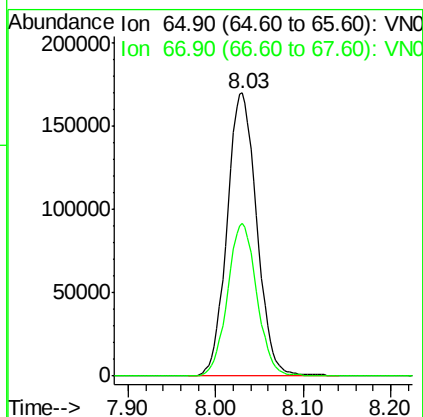
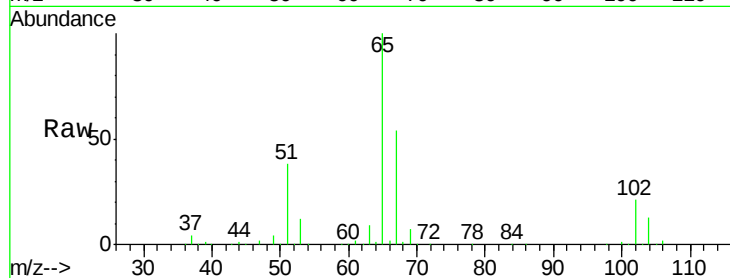




#33
 1,2-Dichloroethane-d4
 Concen: 53.44 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049977.D
 Acq: 20 Jul 2018 21:33

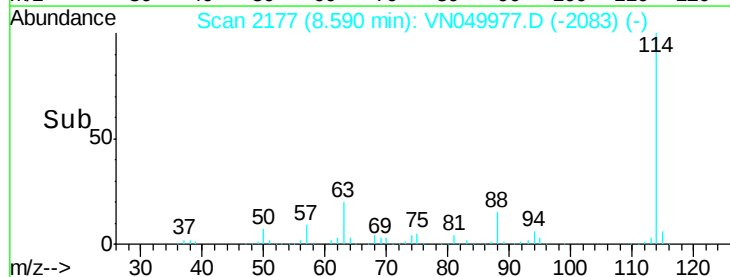
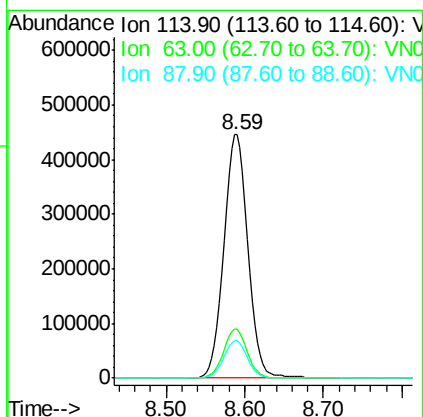
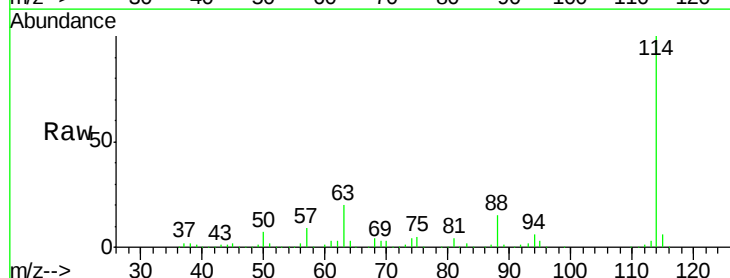
Instrument :
 MSVOA_N
 ClientSampleId :
 EO-02-071818-A

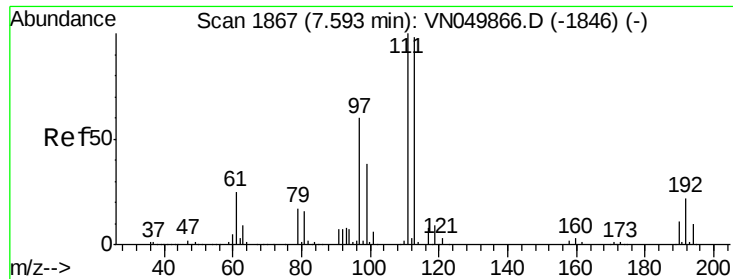
Tot Ion: 65 Resp: 400613
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049977.D
 Acq: 20 Jul 2018 21:33

Tgt Ion: 114 Resp: 937003
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.8
 88 15.2 0.0 30.6

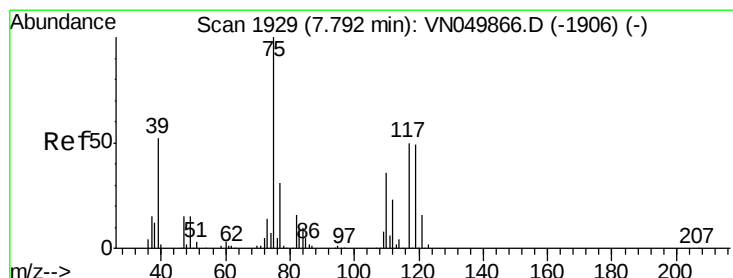
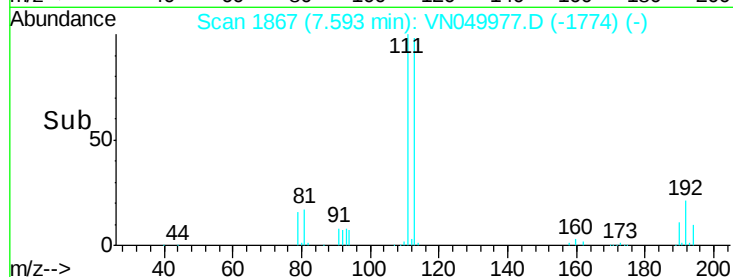
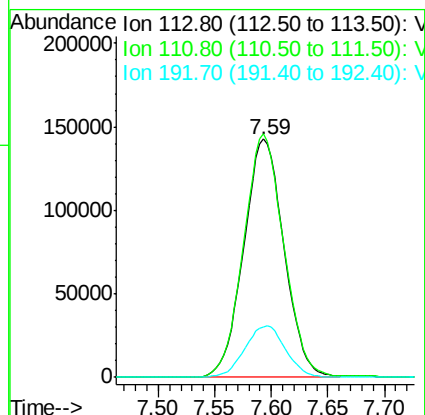
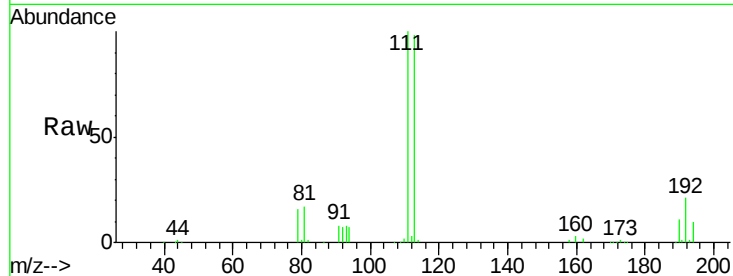




#35
 Dibromofluoromethane
 Concen: 45.02 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049977.D
 Acq: 20 Jul 2018 21:33

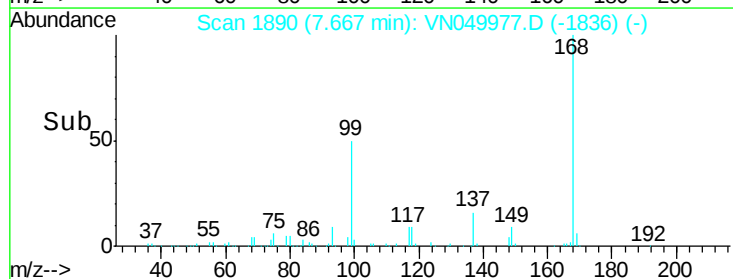
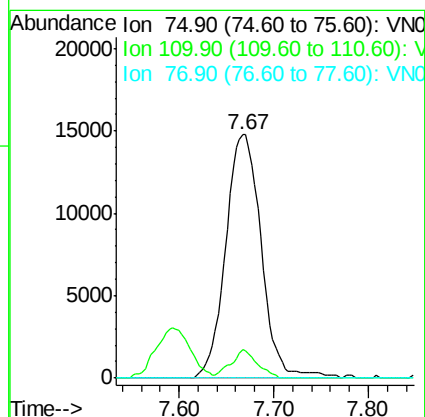
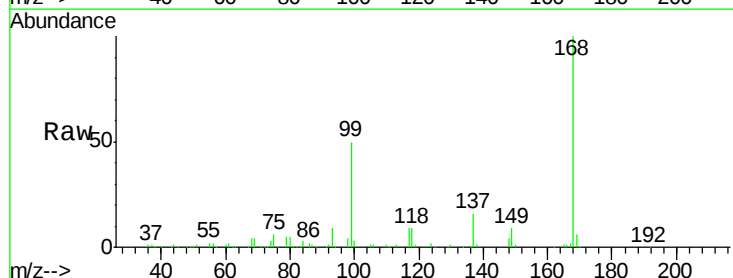
Instrument :
 MSVOA_N
 ClientSampleId :
 EO-02-071818-A

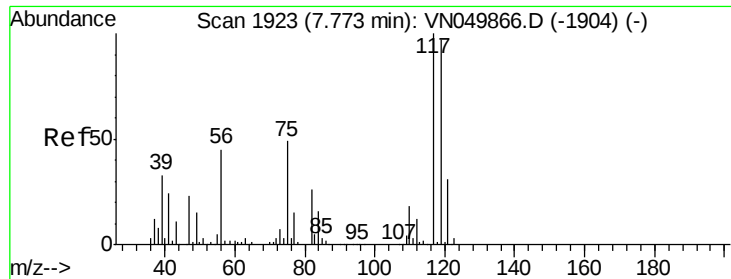
Tot Ion:113 Resp: 354107
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.8 122.8
 192 21.8 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.69 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049977.D
 Acq: 20 Jul 2018 21:33

Tgt Ion: 75 Resp: 38495
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.1 54.4#
 77 0.0 24.9 37.3#

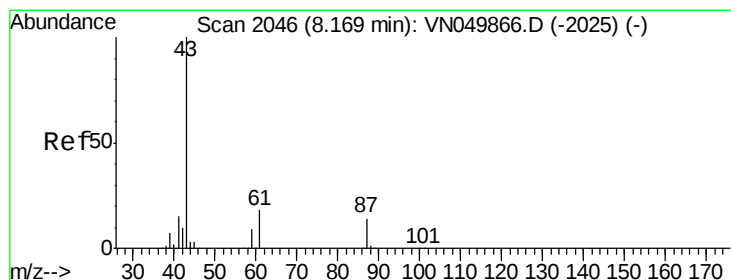
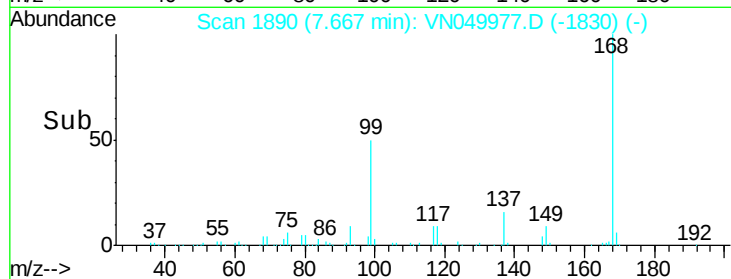
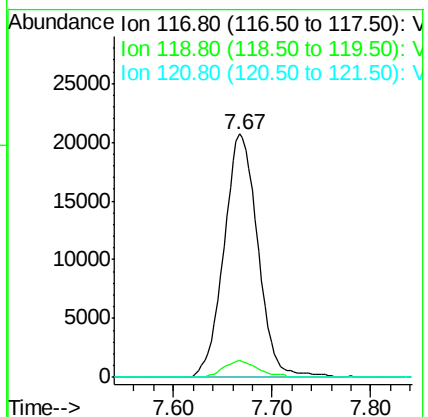
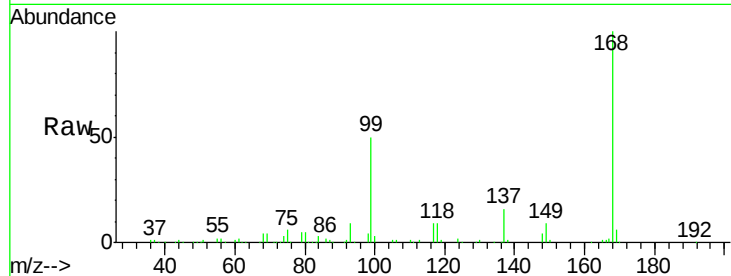




#38
Carbon Tetrachloride
Concen: 4.45 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049977.D
Acq: 20 Jul 2018 21:33

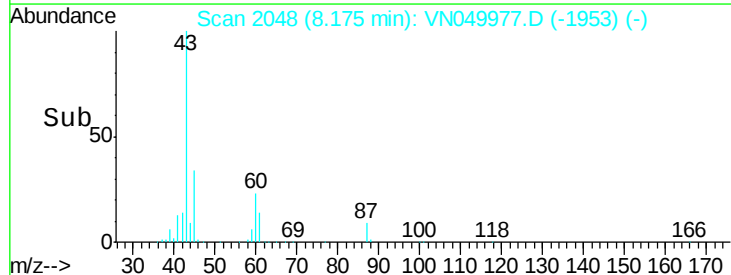
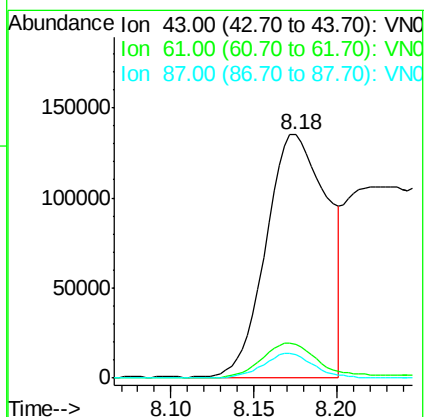
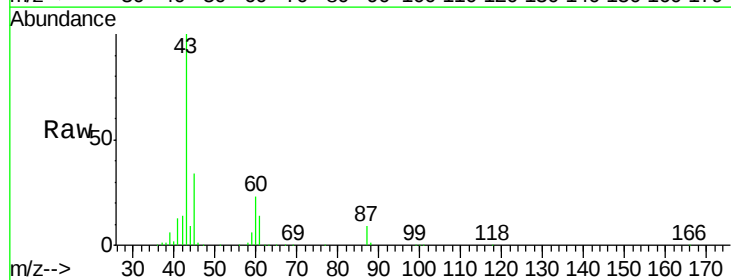
Instrument :
MSVOA_N
ClientSampleId :
EO-02-071818-A

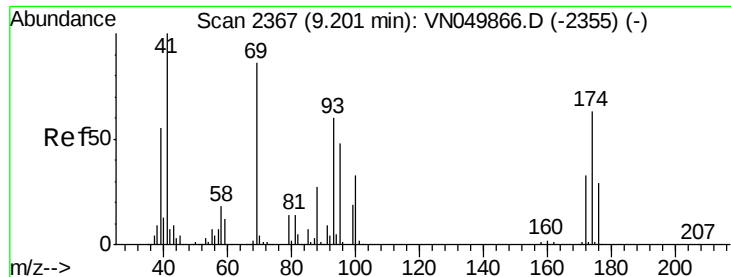
Tot Ion:117 Resp: 49669
Ion Ratio Lower Upper
117 100
119 6.9 77.2 115.8#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 27.69 ug/l
RT: 8.18 min Scan# 2048
Delta R.T. 0.01 min
Lab File: VN049977.D
Acq: 20 Jul 2018 21:33

Tgt Ion: 43 Resp: 346036
Ion Ratio Lower Upper
43 100
61 13.5 14.9 22.3#
87 8.4 10.0 15.0#

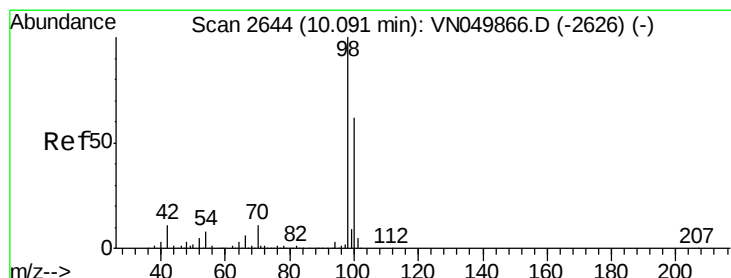
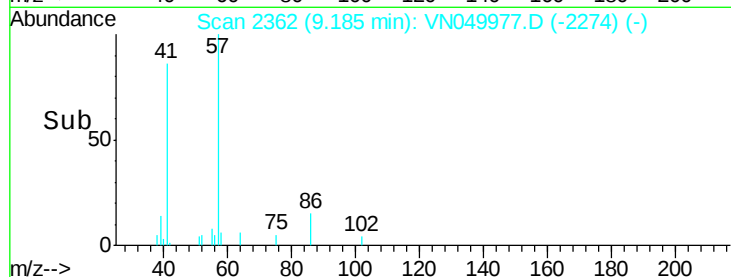
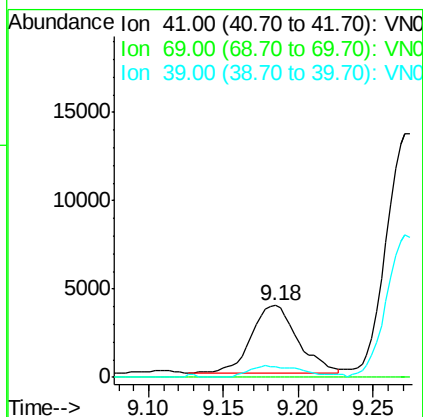
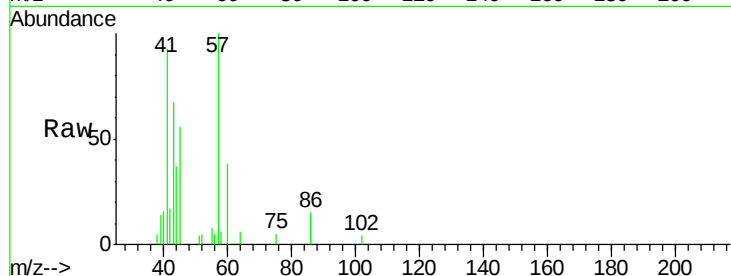




#48
Methvl methacrylate
Concen: 1.32 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN049977.D
Acq: 20 Jul 2018 21:33

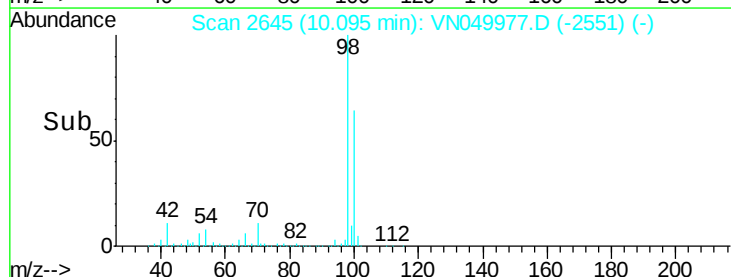
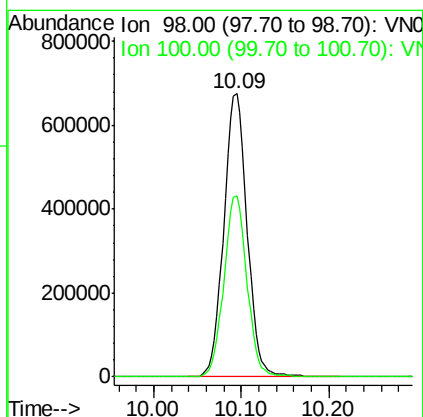
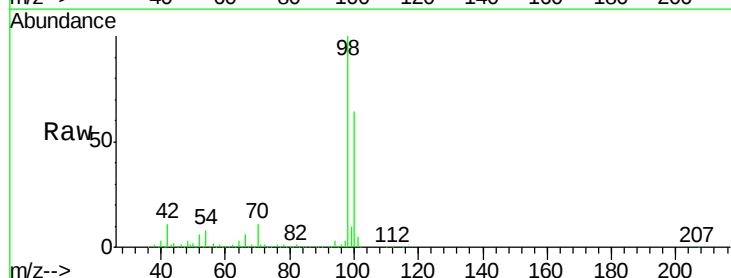
Instrument :
MSVOA_N
ClientSampleId :
EO-02-071818-A

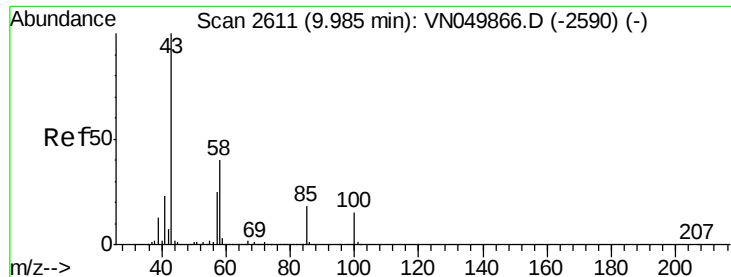
Tot Ion: 41 Resp: 8263
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 18.9 44.7 67.1#



#50
Toluene-d8
Concen: 43.71 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049977.D
Acq: 20 Jul 2018 21:33

Tgt Ion: 98 Resp: 1252706
Ion Ratio Lower Upper
98 100
100 63.4 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.26 ug/l

RT: 9.98 min Scan# 2609

Delta R.T. -0.01 min

Lab File: VN049977.D

Acq: 20 Jul 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

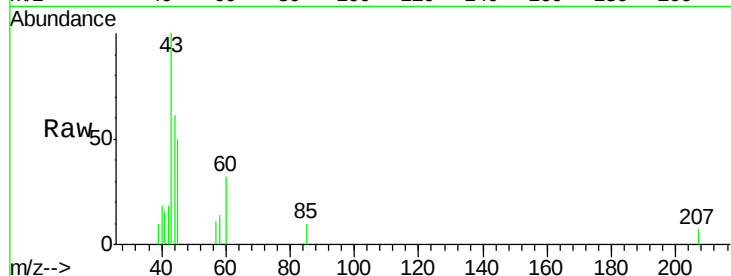
EO-02-071818-A

Tot Ion: 43 Resp: 1842

Ion Ratio Lower Upper

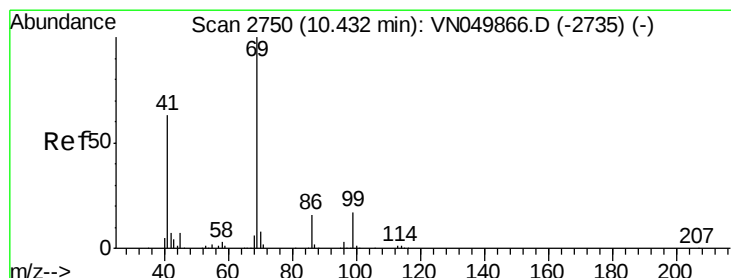
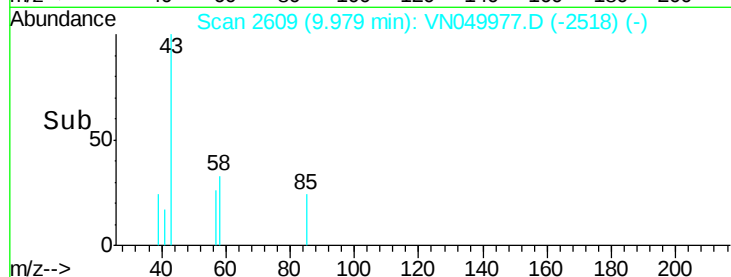
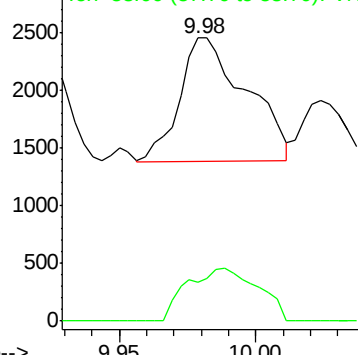
43 100

58 45.1 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#56

Ethyl methacrylate

Concen: 2.23 ug/l

RT: 10.64 min Scan# 2816

Delta R.T. 0.21 min

Lab File: VN049977.D

Acq: 20 Jul 2018 21:33

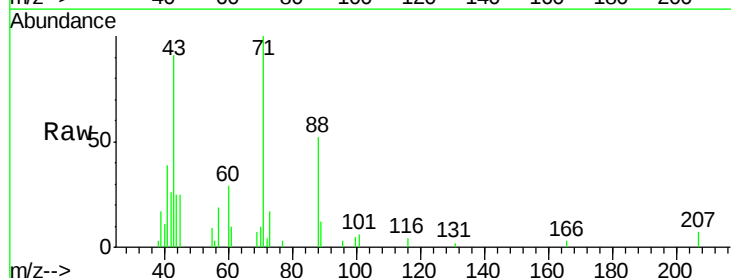
Tgt Ion: 69 Resp: 751

Ion Ratio Lower Upper

69 100

41 567.1 51.6 77.4#

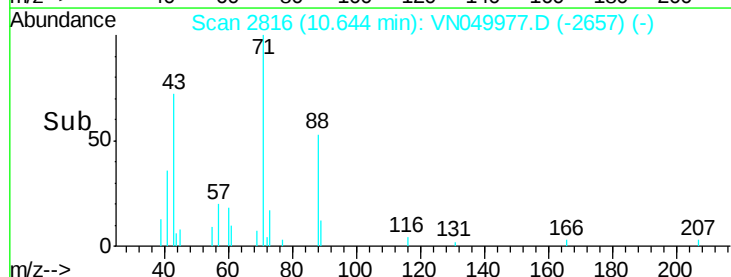
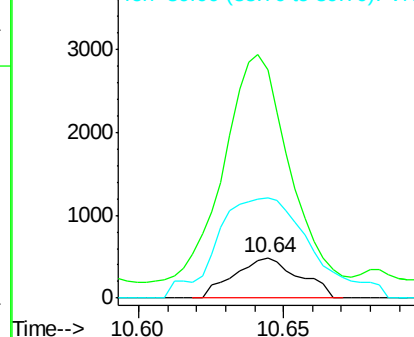
39 365.5 25.8 38.8#

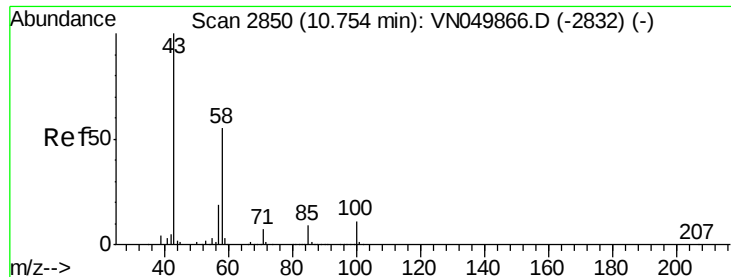


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#59

2-Hexanone

Concen: 4.24 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049977.D

Acq: 20 Jul 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

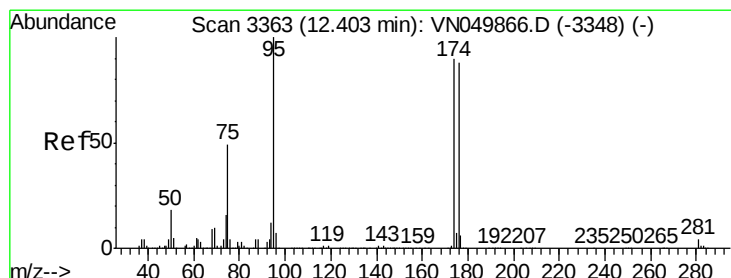
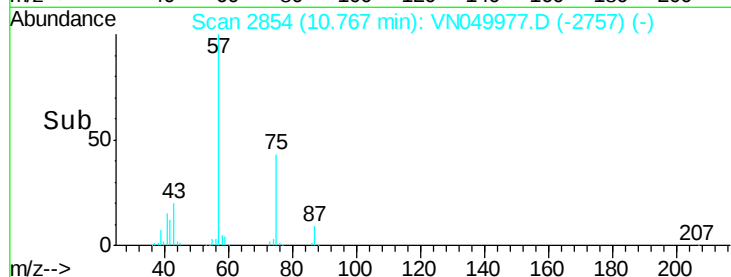
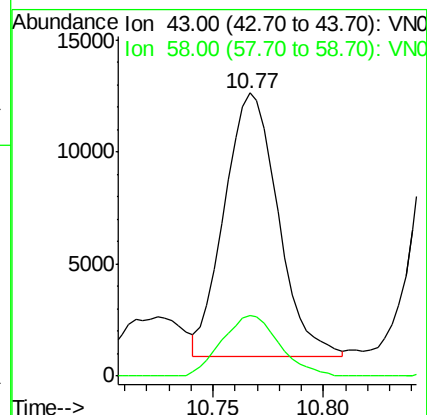
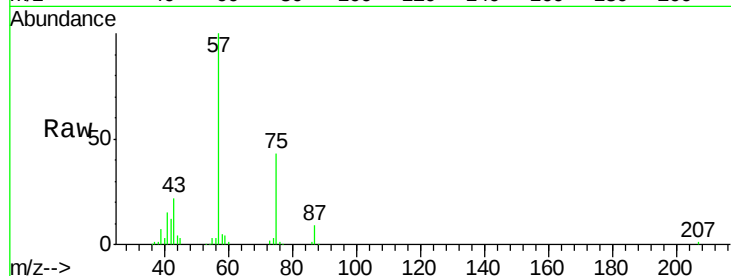
EO-02-071818-A

Tot Ion: 43 Resp: 19911

Ion Ratio Lower Upper

43 100

58 24.7 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 35.16 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049977.D

Acq: 20 Jul 2018 21:33

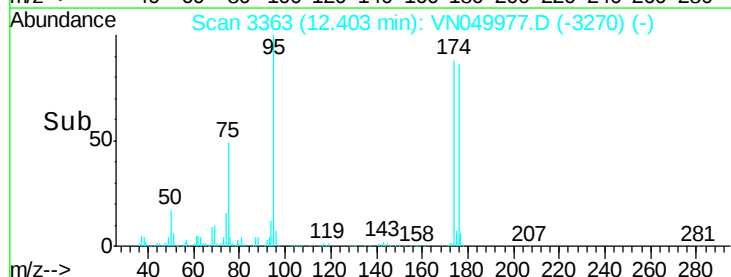
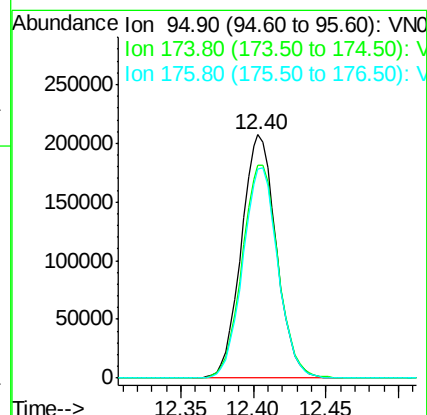
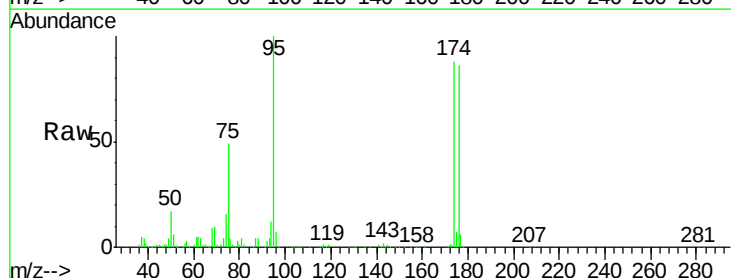
Tgt Ion: 95 Resp: 347022

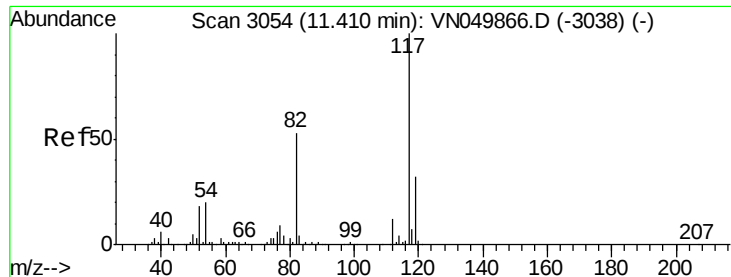
Ion Ratio Lower Upper

95 100

174 90.4 0.0 179.6

176 86.7 0.0 174.0

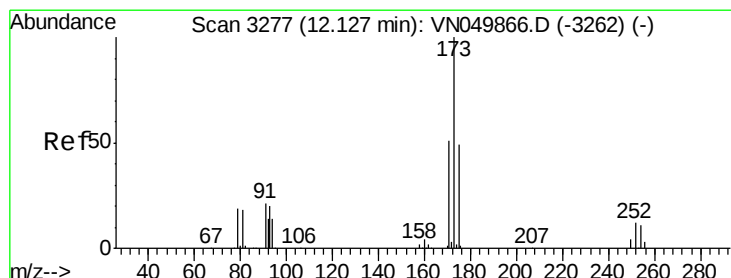
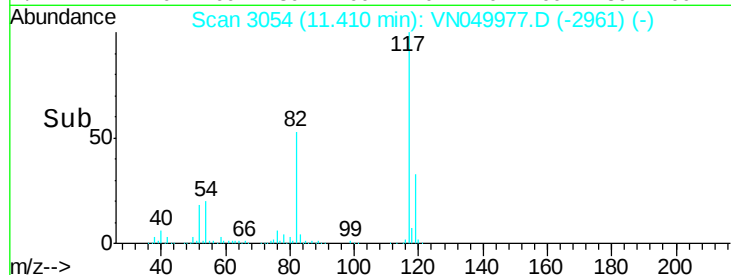
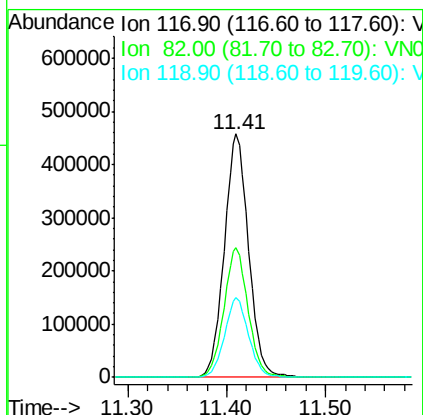
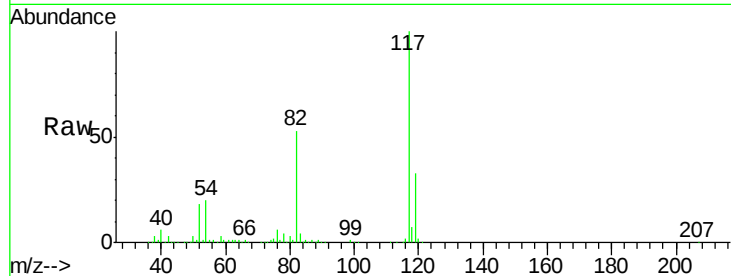




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049977.D
Acq: 20 Jul 2018 21:33

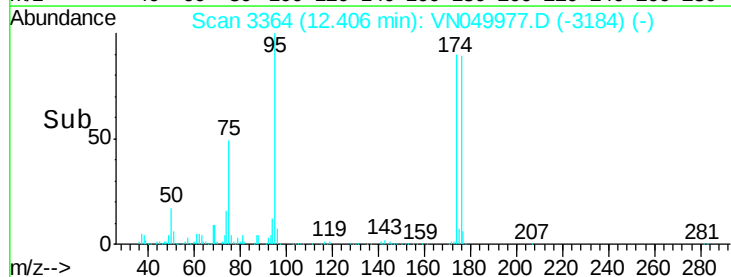
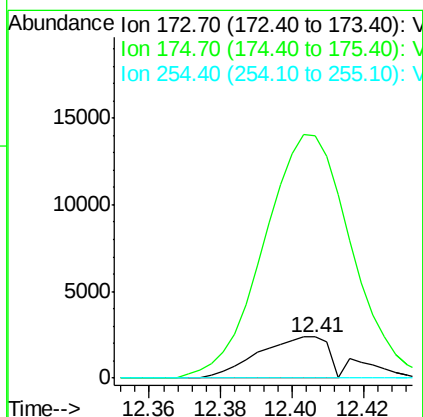
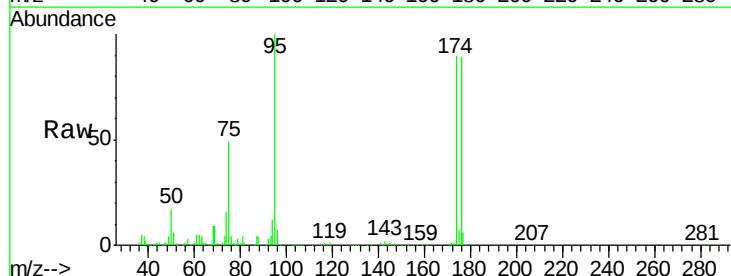
Instrument :
MSVOA_N
ClientSampleId :
EO-02-071818-A

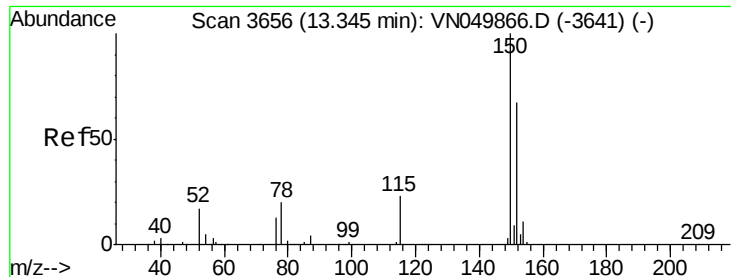
Tot Ion:117 Resp: 788886
Ion Ratio Lower Upper
117 100
82 53.4 41.9 62.9
119 32.7 25.4 38.2



#71
Bromoform
Concen: 0.58 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.28 min
Lab File: VN049977.D
Acq: 20 Jul 2018 21:33

Tgt Ion:173 Resp: 3178
Ion Ratio Lower Upper
173 100
175 612.1 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# 3656

Delta R.T. 0.00 min

Lab File: VN049977.D

Acq: 20 Jul 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

EO-02-071818-A

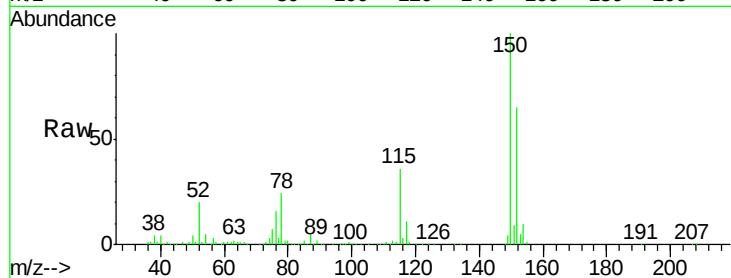
Tot Ion:152 Resp: 300174

Ion Ratio Lower Upper

152 100

115 56.4 28.1 84.2

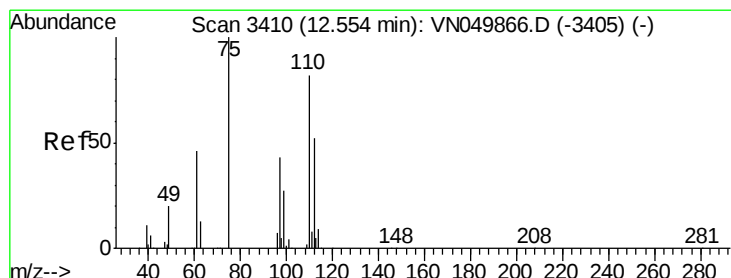
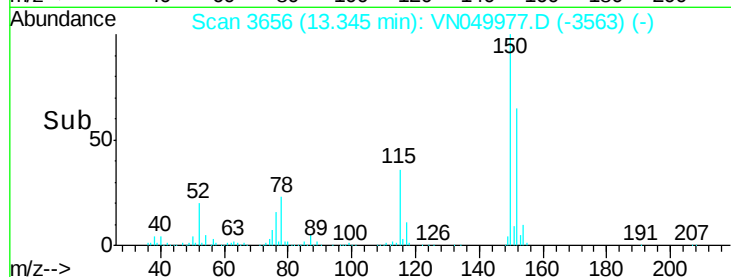
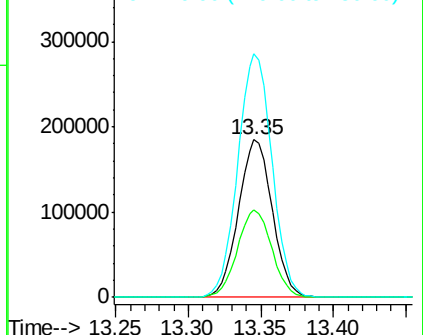
150 155.9 0.0 347.6



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: 30.36 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049977.D

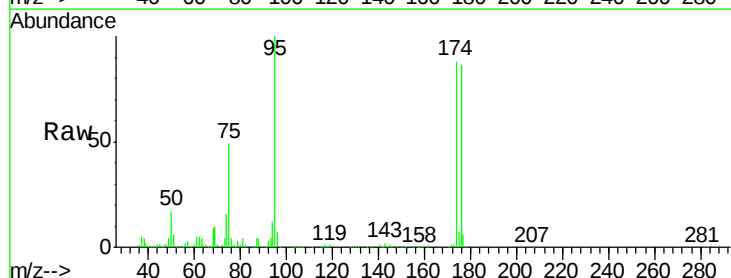
Acq: 20 Jul 2018 21:33

Tgt Ion: 75 Resp: 170963

Ion Ratio Lower Upper

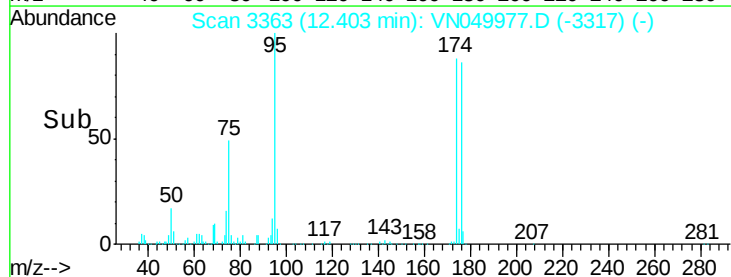
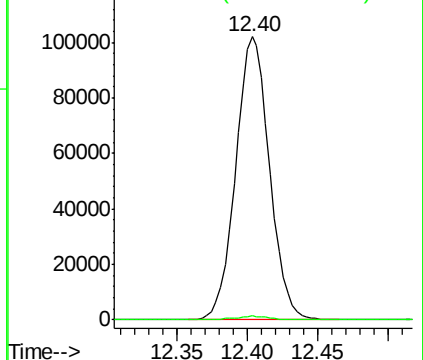
75 100

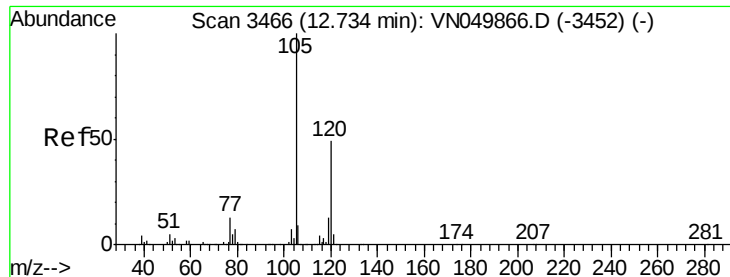
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.25 ug/l

RT: 12.73 min Scan# 3465

Delta R.T. -0.00 min

Lab File: VN049977.D

Acq: 20 Jul 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

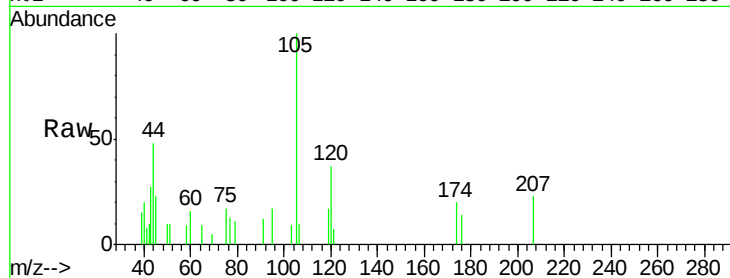
EO-02-071818-A

Tot Ion:105 Resp: 4632

Ion Ratio Lower Upper

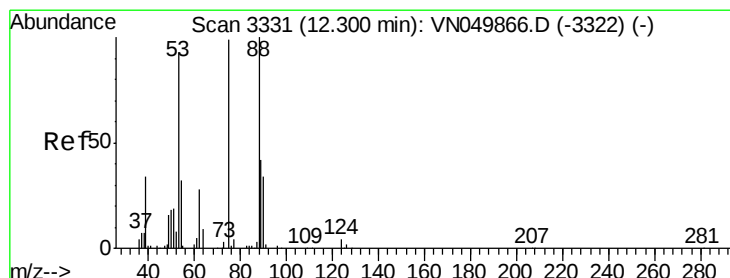
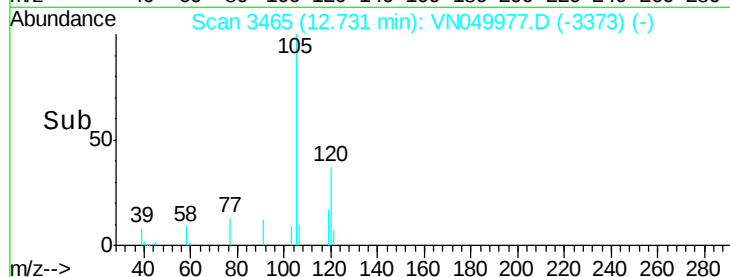
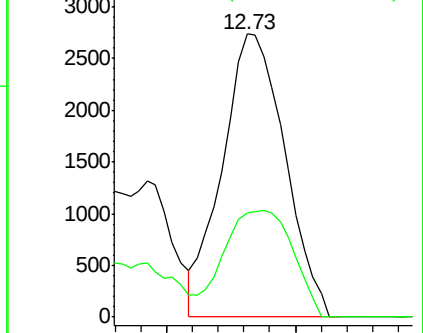
105 100

120 41.1 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 94.94 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049977.D

Acq: 20 Jul 2018 21:33

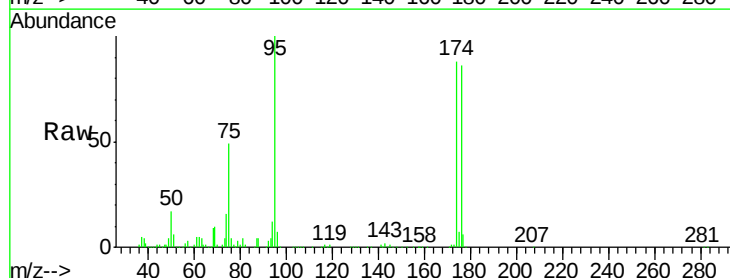
Tgt Ion: 75 Resp: 170963

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

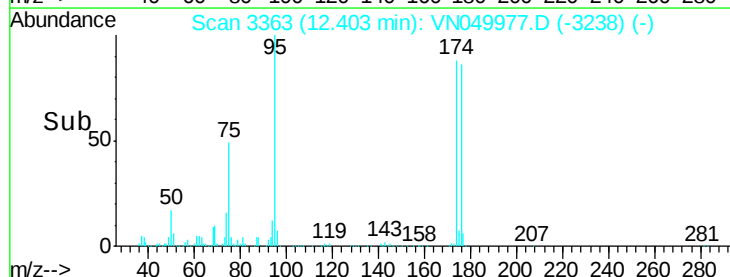
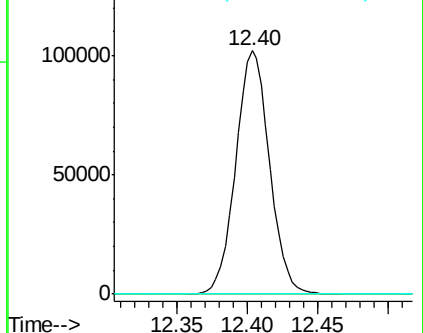
89 0.0 35.9 53.9#

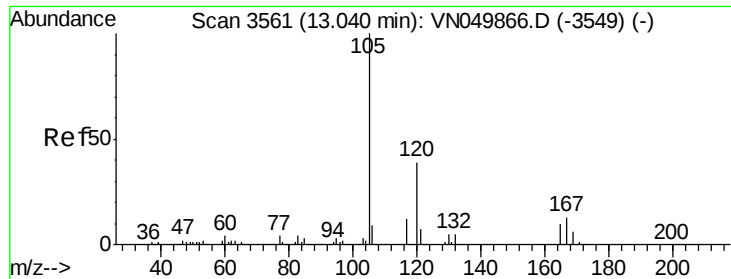


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

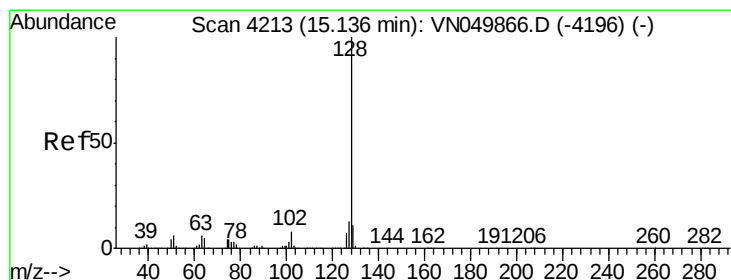
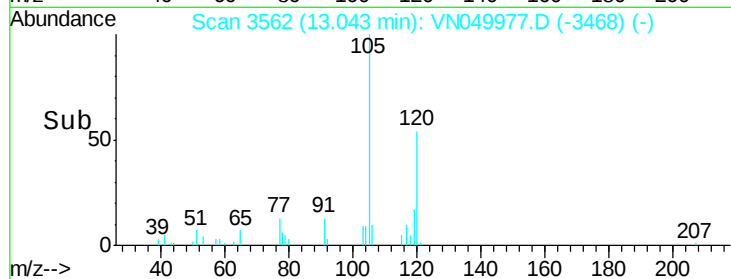
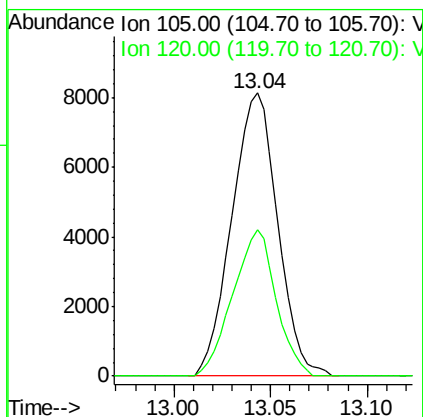
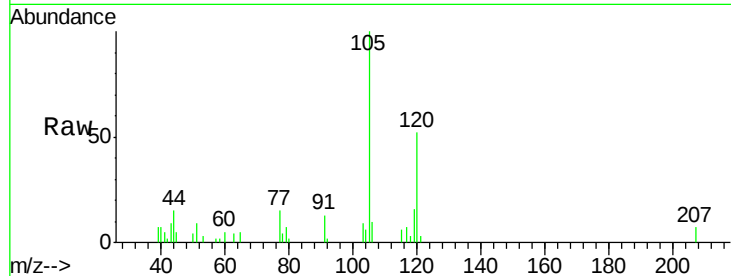




#84
 1,2,4-Trimethylbenzene
 Concen: 0.72 ug/l
 RT: 13.04 min Scan# 3562
 Delta R.T. 0.00 min
 Lab File: VN049977.D
 Acq: 20 Jul 2018 21:33

Instrument :
 MSVOA_N
 ClientSampleId :
 EO-02-071818-A

Tot Ion:105 Resp: 13383
 Ion Ratio Lower Upper
 105 100
 120 48.8 22.7 68.1



#95
 Naphthalene
 Concen: 6.66 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN049977.D
 Acq: 20 Jul 2018 21:33

Tgt Ion:128 Resp: 33937
 Ion Ratio Lower Upper
 128 100
 127 13.9 10.4 15.6
 129 9.6 8.6 13.0

