

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052267.D
 Acq On : 12 Nov 2018 17:25
 Operator : MD\SY
 Sample : PB114678ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#11

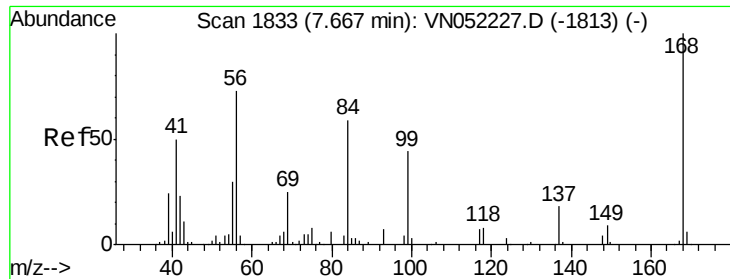
Quant Time: Nov 13 00:16:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	327450	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	549946	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	474555	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	167290	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	218813	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
35) Dibromofluoromethane	7.59	113	170729	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	
50) Toluene-d8	10.09	98	691388	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
62) 4-Bromofluorobenzene	12.40	95	200765	44.53	ug/l	0.00
Spiked Amount			Recovery	=	89.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.63	56	63	34.252	ug/l #	72
16) Acetone	3.82	43	4254	Below Cal		99
20) Methylene Chloride	4.56	84	5232	1.282	ug/l	87
25) 2-Butanone	6.85	43	456	0.239	ug/l #	52
29) Tetrahydrofuran	7.21	42	324	0.261	ug/l #	40
31) Cyclohexane	7.67	56	8820	0.593	ug/l #	2
36) 1,1-Dichloropropene	7.66	75	28284	5.095	ug/l #	47
38) Carbon Tetrachloride	7.67	117	34350	6.829	ug/l #	16
43) Isopropyl Acetate	8.17	43	25152	3.456	ug/l #	92
45) 1,2-Dichloropropane	9.27	63	956	0.215	ug/l #	44
48) Methyl methacrylate	9.18	41	6445	1.681	ug/l #	15
51) 4-Methyl-2-Pentanone	10.02	43	6282	1.563	ug/l #	40
54) cis-1,3-Dichloropropene	9.90	75	38592	6.270	ug/l #	70
56) Ethyl methacrylate	10.55	69	1028	0.220	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	8056	1.299	ug/l #	43
59) 2-Hexanone	10.76	43	135196	47.921	ug/l #	55
71) Bromoform	12.40	173	2200	1.083	ug/l #	1
74) N-amyl acetate	11.88	43	15708	3.164	ug/l #	57
76) 1,2,3-Trichloropropane	12.40	75	111157	37.556	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7388	0.679	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	111157	128.194	ug/l #	8

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

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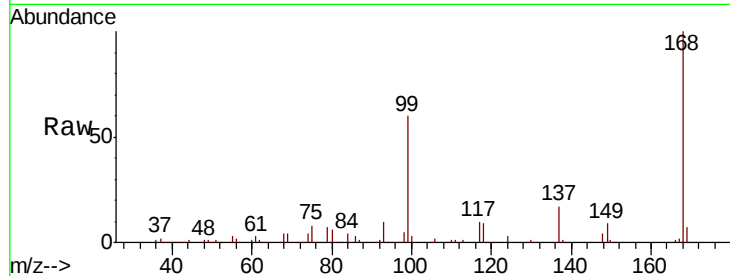
PB114678ZHE#11

Tot Ion:168 Resp: 327450

Ion Ratio Lower Upper

168 100

99 60.4 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

150000

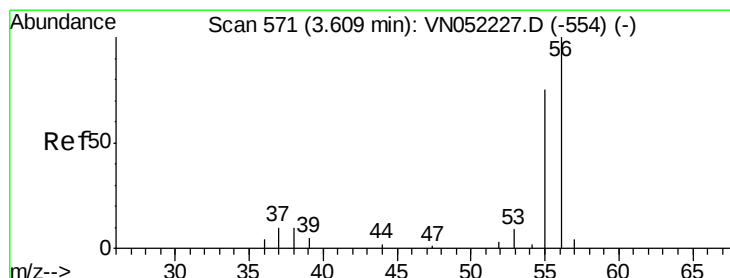
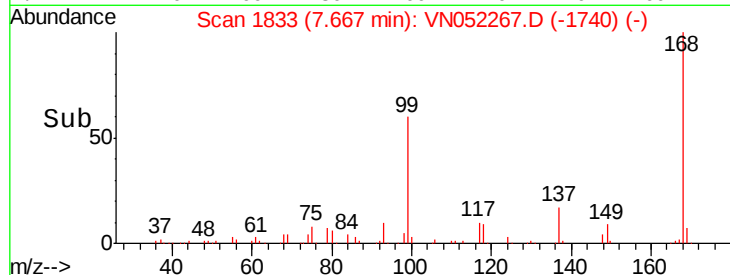
100000

50000

0

7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 34.252 ug/l

RT: 3.63 min Scan# 577

Delta R.T. 0.02 min

Lab File: VN052267.D

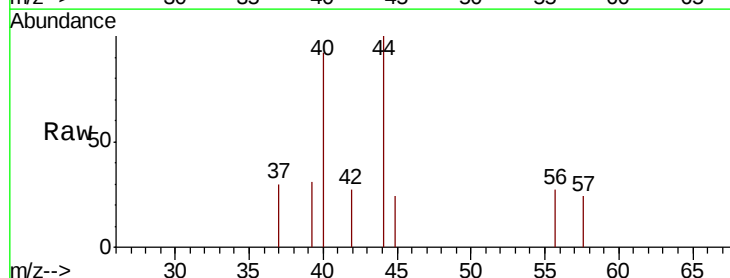
Acq: 12 Nov 2018 17:25

Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

56 100

55 50.8 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.63

200

150

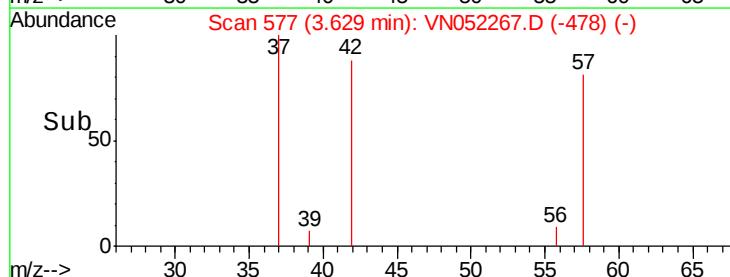
100

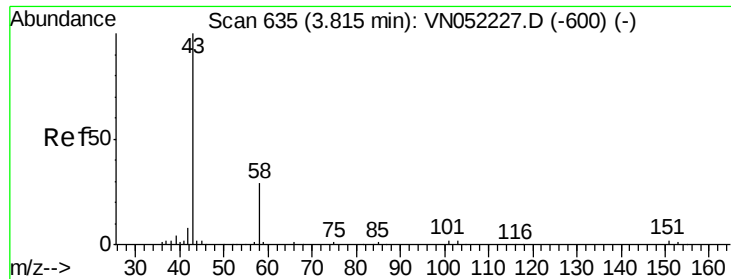
50

0

3.62 3.63 3.64

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

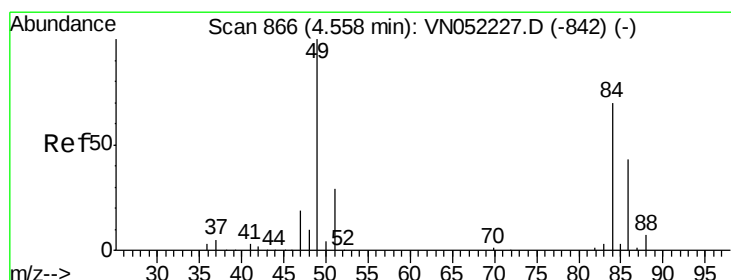
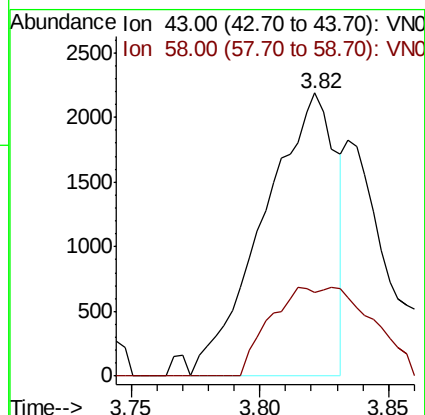
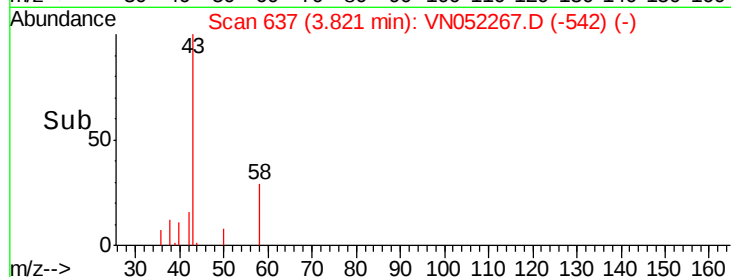
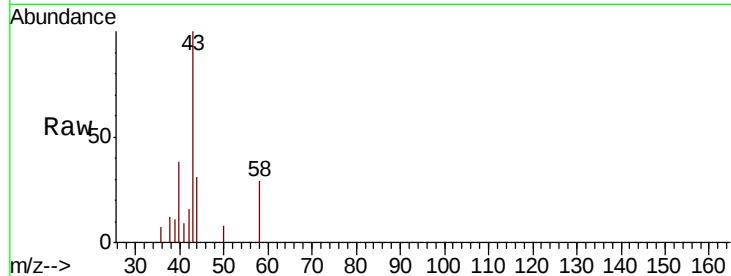
PB114678ZHE#11

Tot Ion: 43 Resp: 4254

Ion Ratio Lower Upper

43 100

58 29.5 23.0 34.6



#20

Methylene Chloride

Concen: 1.282 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.00 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

Tgt Ion: 84 Resp: 5232

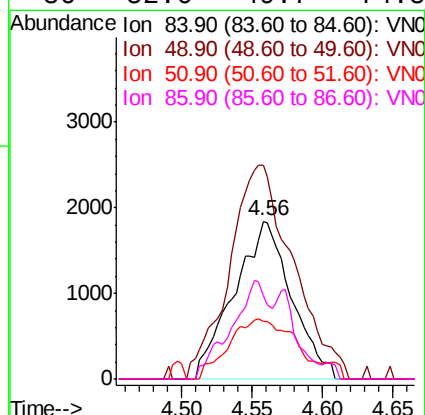
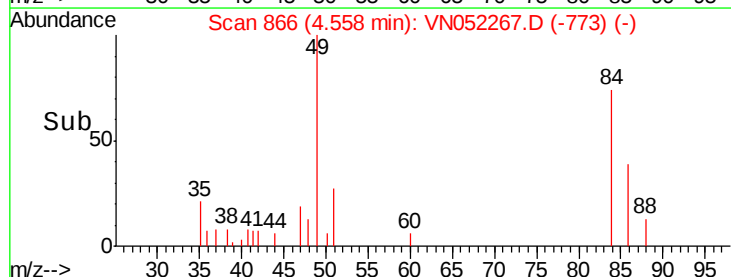
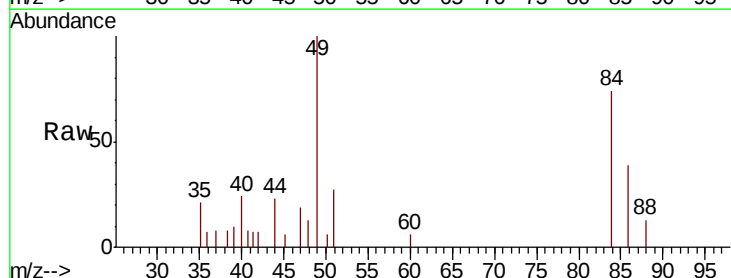
Ion Ratio Lower Upper

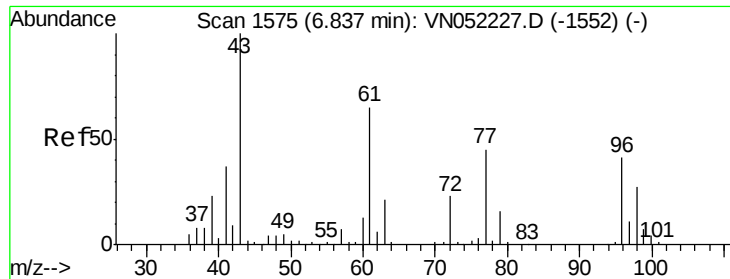
84 100

49 125.2 114.8 172.2

51 36.7 33.1 49.7

86 52.6 49.7 74.5

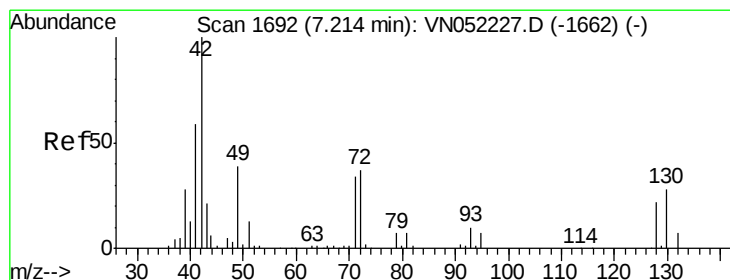
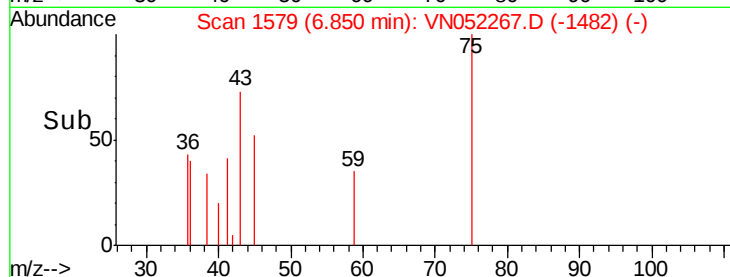
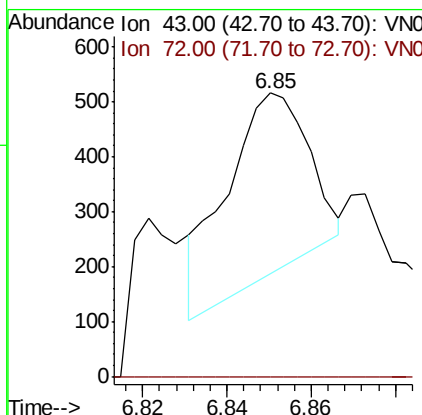
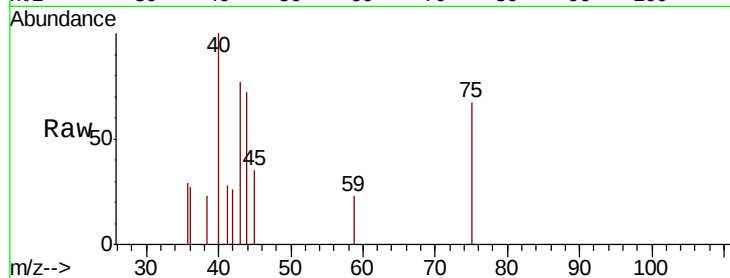




#25
 2-Butanone
 Concen: 0.239 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VN052267.D
 Acq: 12 Nov 2018 17:25

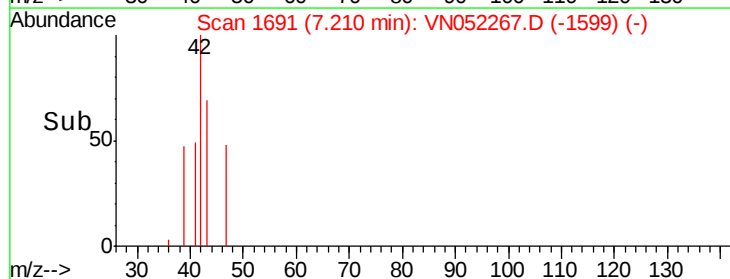
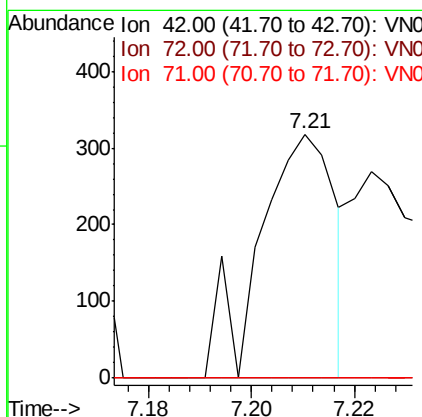
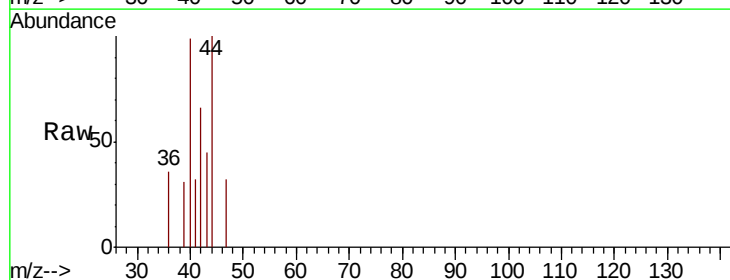
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#11

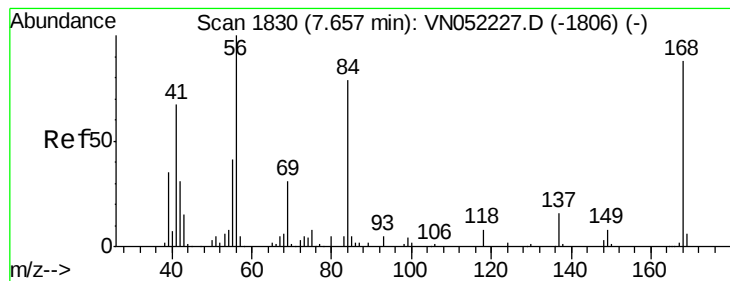
Tot Ion: 43 Resp: 456
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.6 27.8#



#29
 Tetrahydrofuran
 Concen: 0.261 ug/l
 RT: 7.21 min Scan# 1691
 Delta R.T. -0.00 min
 Lab File: VN052267.D
 Acq: 12 Nov 2018 17:25

Tgt Ion: 42 Resp: 324
 Ion Ratio Lower Upper
 42 100
 72 0.0 28.6 43.0#
 71 0.0 27.1 40.7#





#31

Cyclohexane

Concen: 0.593 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#11

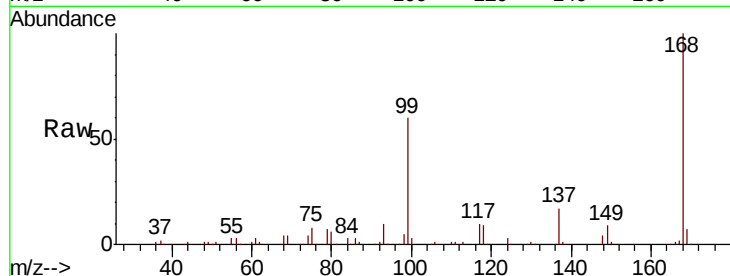
Tot Ion: 56 Resp: 8820

Ion Ratio Lower Upper

56 100

69 135.7 24.8 37.2#

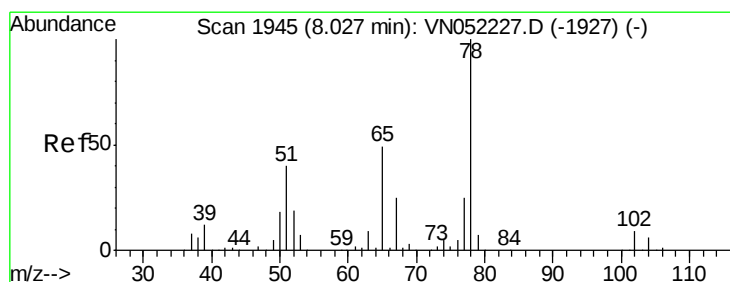
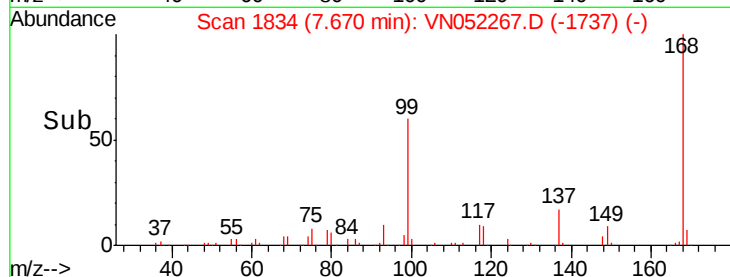
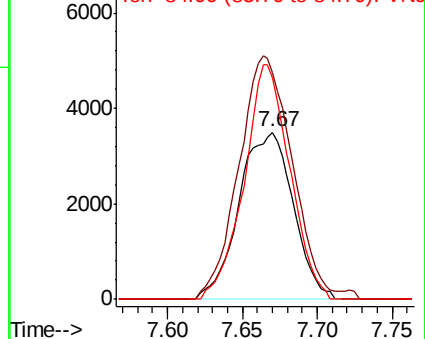
84 132.7 63.1 94.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052267.D

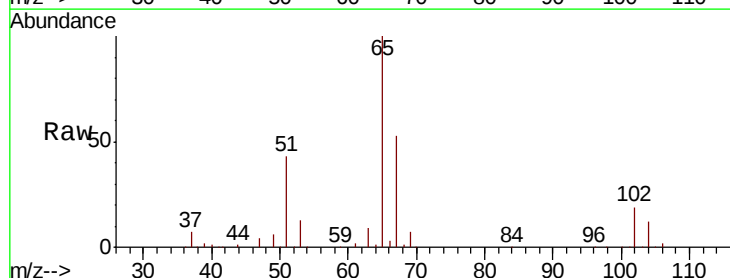
Acq: 12 Nov 2018 17:25

Tgt Ion: 65 Resp: 218813

Ion Ratio Lower Upper

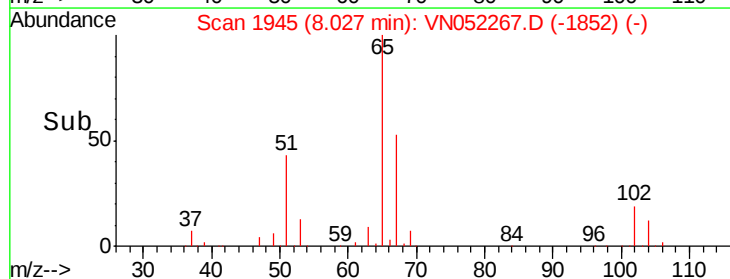
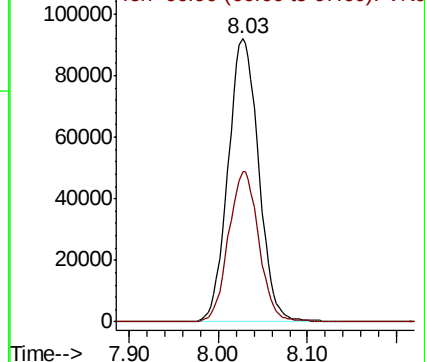
65 100

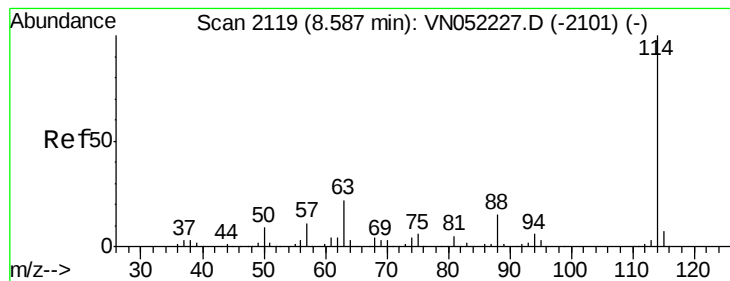
67 52.7 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

Instrument :

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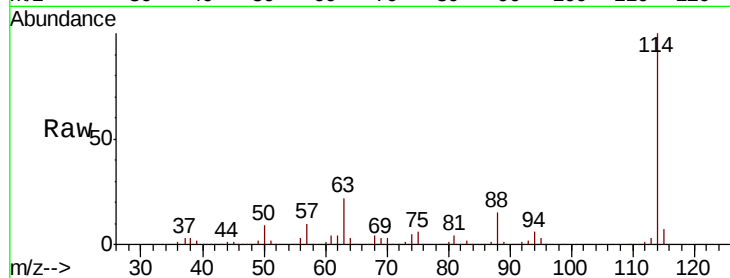
Tot Ion:114 Resp: 549946

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.4

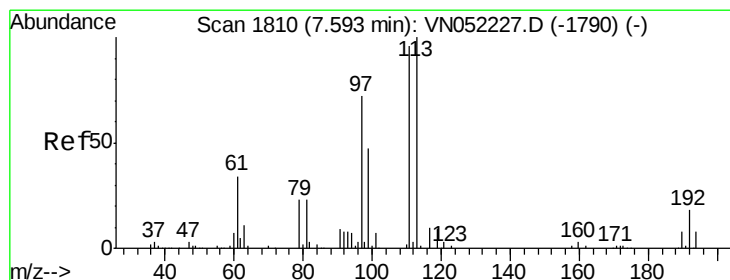
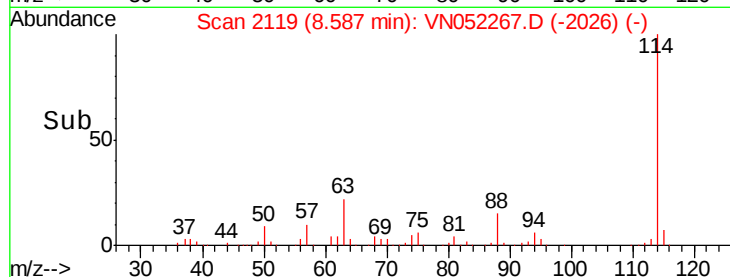
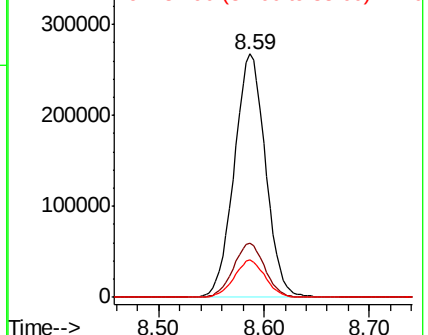
88 15.3 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

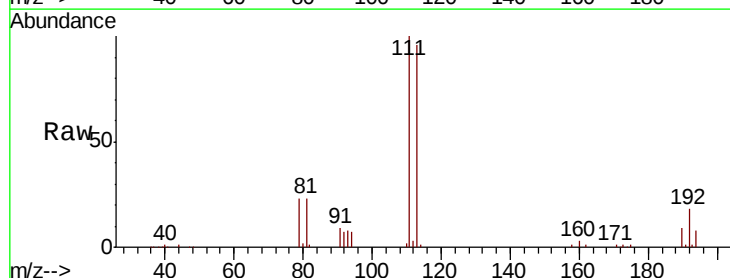
Tgt Ion:113 Resp: 170729

Ion Ratio Lower Upper

113 100

111 104.7 80.2 120.4

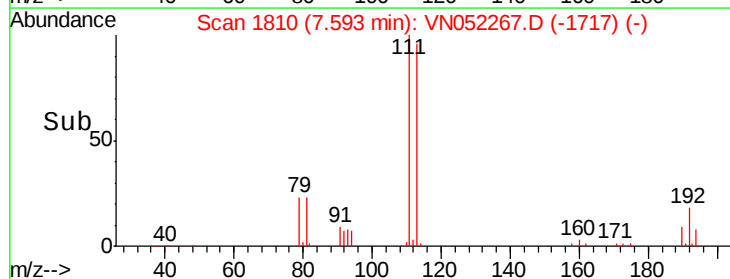
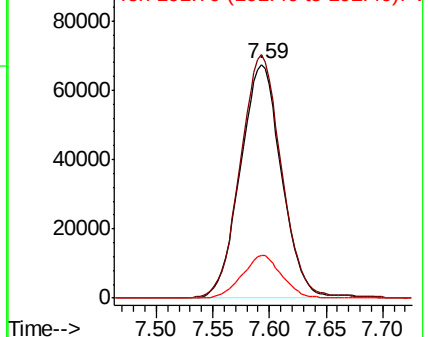
192 17.5 14.1 21.1

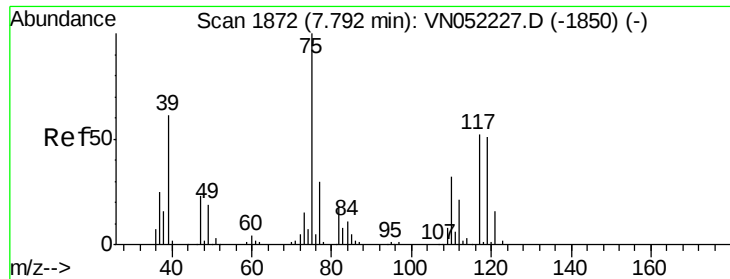


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.095 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

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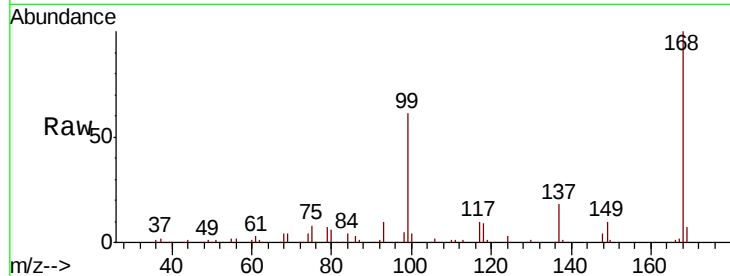
Tot Ion: 75 Resp: 28284

Ion Ratio Lower Upper

75 100

110 3.8 16.4 49.4#

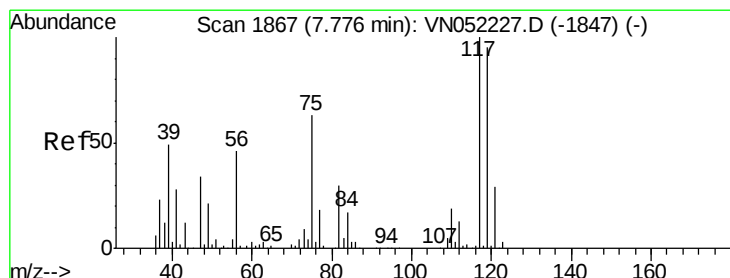
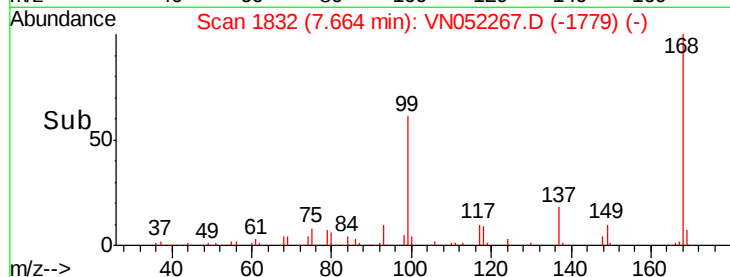
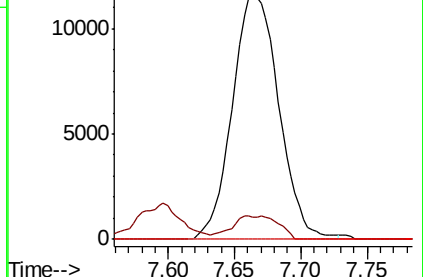
77 0.0 23.9 35.9#



Abundance Ion 74.90 (74.60 to 75.60): VN052227.D (-1850) (-)

Ion 109.90 (109.60 to 110.60): VN052227.D (-1850) (-)

Ion 76.90 (76.60 to 77.60): VN052227.D (-1850) (-)



#38

Carbon Tetrachloride

Concen: 6.829 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

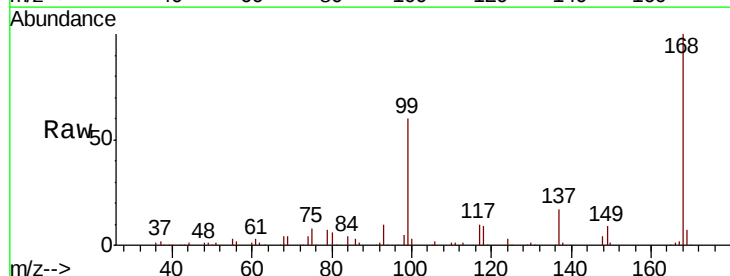
Tgt Ion: 117 Resp: 34350

Ion Ratio Lower Upper

117 100

119 4.6 75.8 113.8#

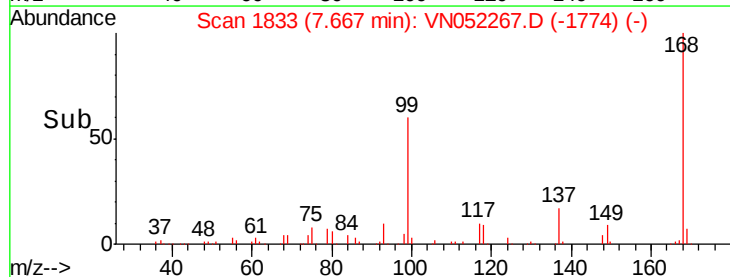
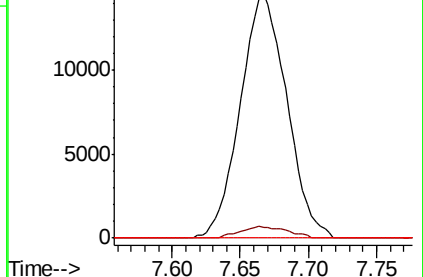
121 0.0 23.4 35.2#

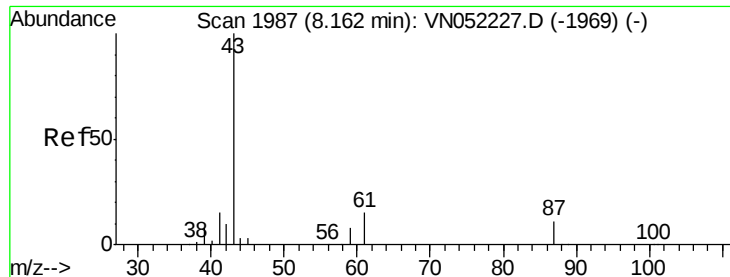


Abundance Ion 116.80 (116.50 to 117.50): VN052227.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN052227.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN052227.D (-1847) (-)





#43

Isopropyl Acetate

Concen: 3.456 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#11

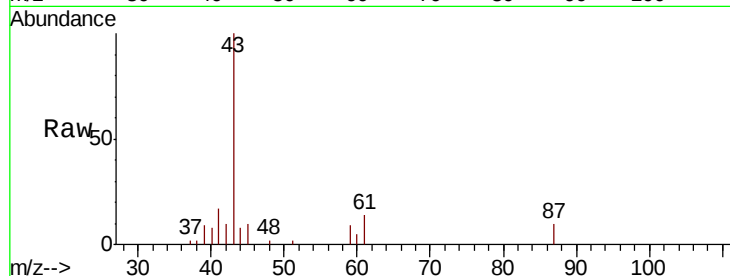
Tot Ion: 43 Resp: 25152

Ion Ratio Lower Upper

43 100

61 13.7 14.2 21.4#

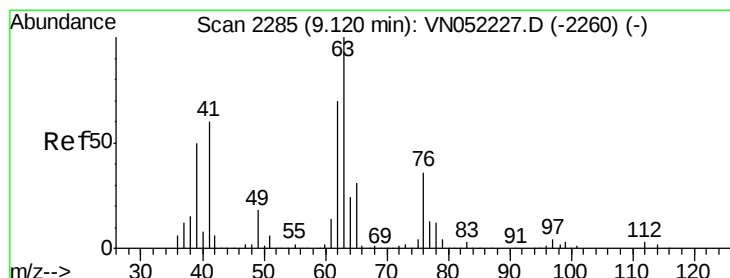
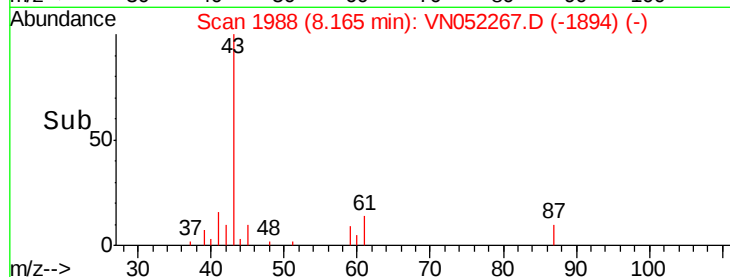
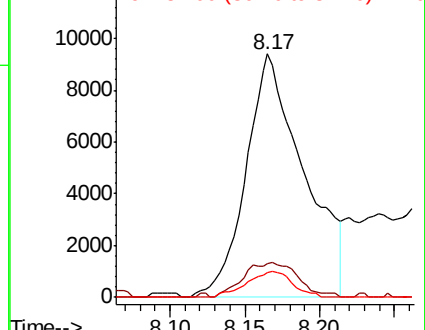
87 8.4 8.4 12.6



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



#45

1,2-Dichloropropane

Concen: 0.215 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN052267.D

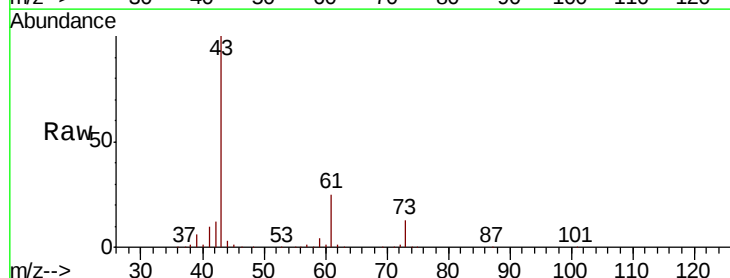
Acq: 12 Nov 2018 17:25

Tgt Ion: 63 Resp: 956

Ion Ratio Lower Upper

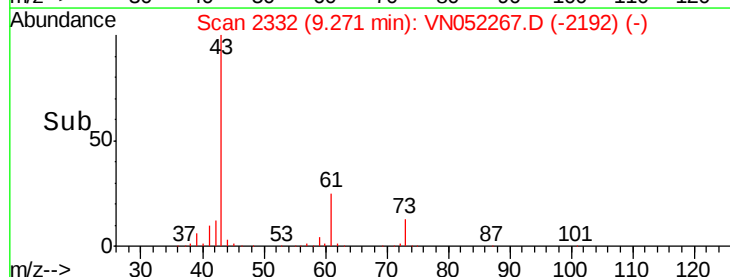
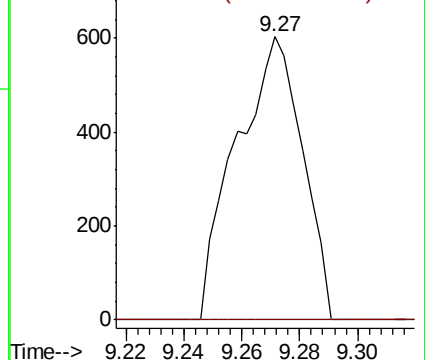
63 100

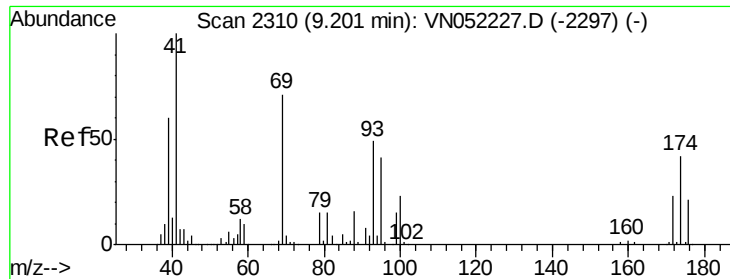
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

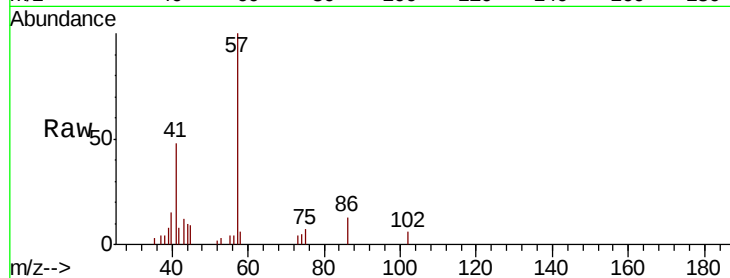




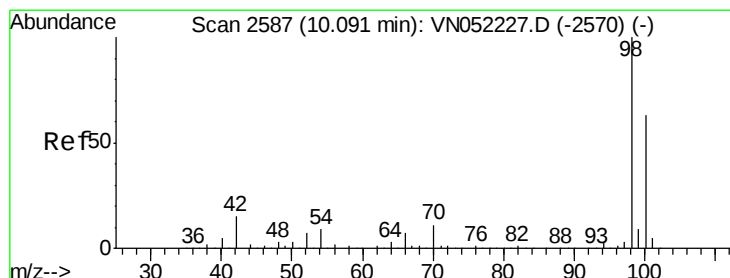
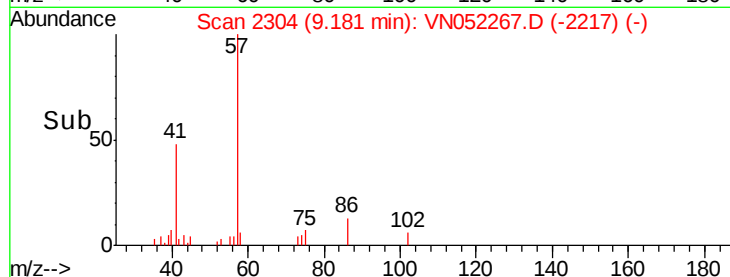
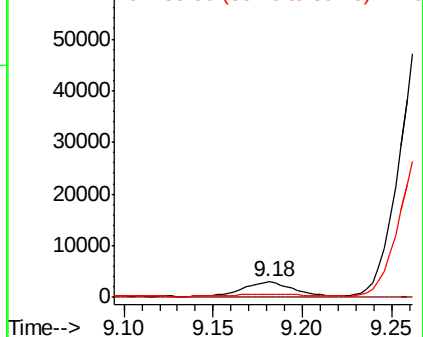
#48
Methvl methacrylate
Concen: 1.681 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052267.D
Acq: 12 Nov 2018 17:25

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#11

Tot Ion: 41 Resp: 6445
Ion Ratio Lower Upper
41 100
69 0.0 58.8 88.2#
39 0.0 50.7 76.1#

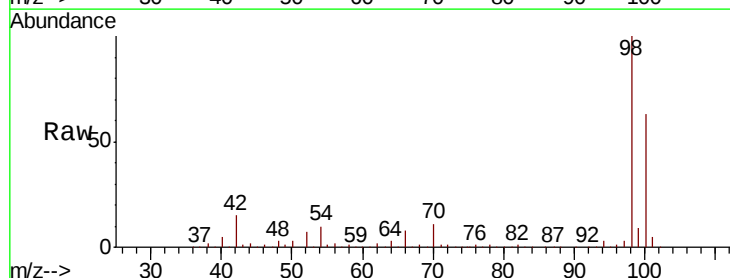


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

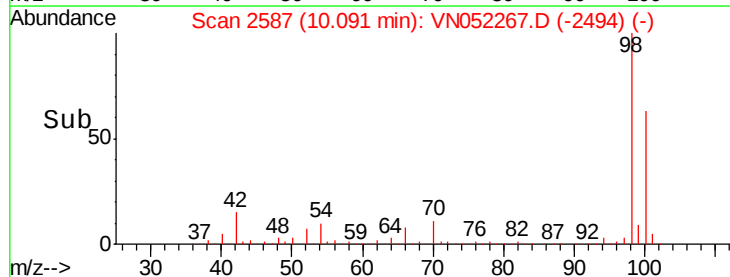
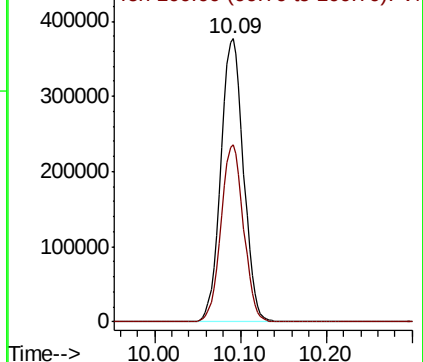


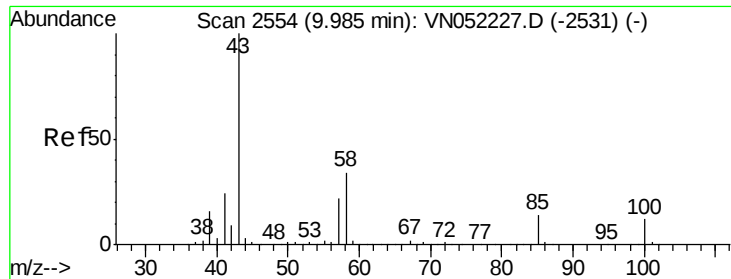
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052267.D
Acq: 12 Nov 2018 17:25

Tgt Ion: 98 Resp: 691388
Ion Ratio Lower Upper
98 100
100 62.2 50.2 75.2



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: 1.563 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

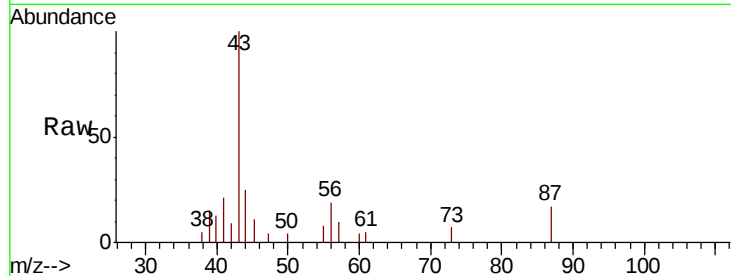
PB114678ZHE#11

Tot Ion: 43 Resp: 6282

Ion Ratio Lower Upper

43 100

58 0.0 27.4 41.0#



Abundance Ion 43.00 (42.70 to 43.70): VN052227.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN052227.D (-2531) (-)

10.02

4000

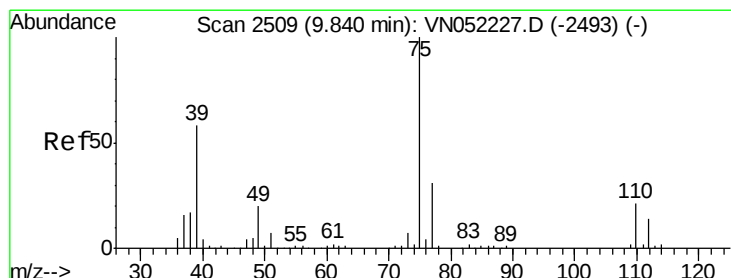
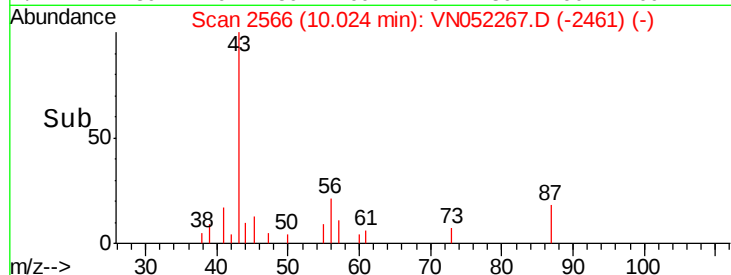
3000

2000

1000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.270 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

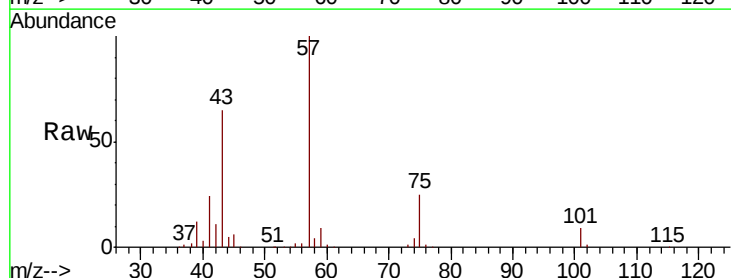
Tgt Ion: 75 Resp: 38592

Ion Ratio Lower Upper

75 100

77 0.8 25.2 37.8#

39 46.6 46.6 70.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052227.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN052227.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN052227.D (-2493) (-)

9.90

30000

25000

20000

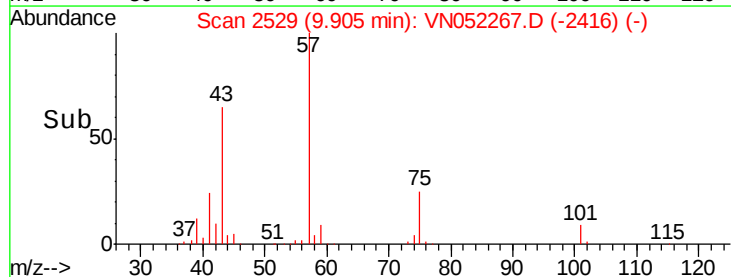
15000

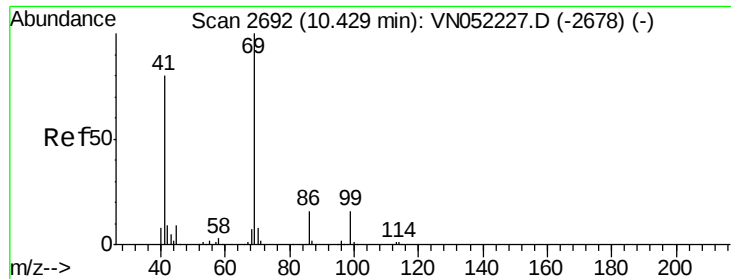
10000

5000

0

Time-->





#56

Ethyl methacrylate

Concen: 0.220 ug/l

RT: 10.55 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#11

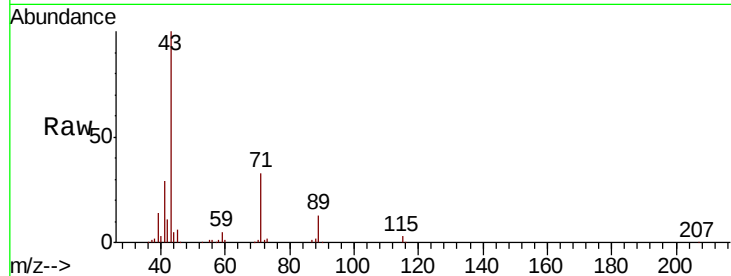
Tot Ion: 69 Resp: 1028

Ion Ratio Lower Upper

69 100

41 4316.8 64.0 96.0#

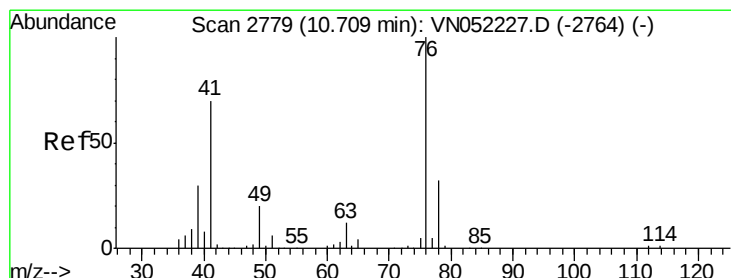
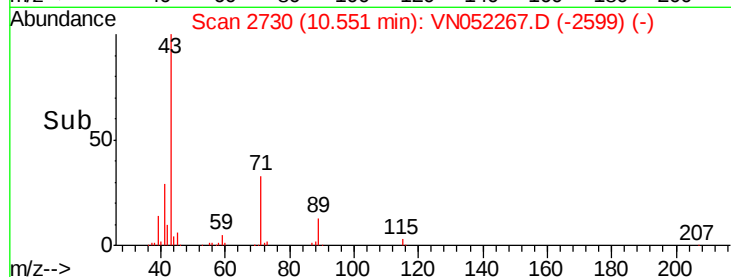
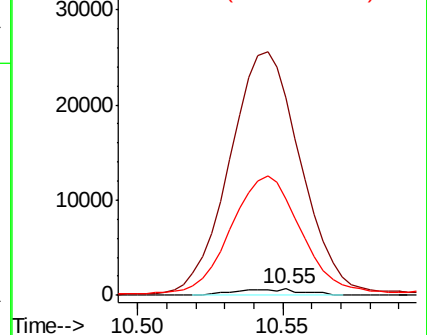
39 2019.7 37.8 56.8#



Abundance Ion 69.00 (68.70 to 69.70): VNC

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC



#57

1,3-Dichloropropane

Concen: 1.299 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN052267.D

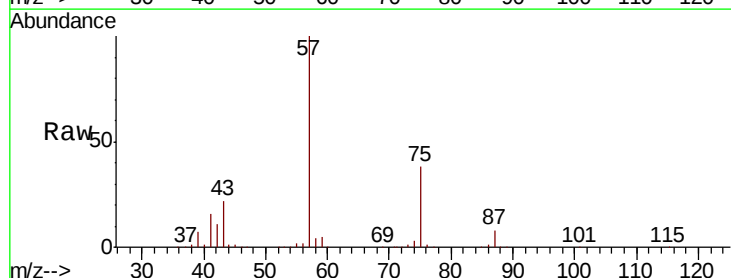
Acq: 12 Nov 2018 17:25

Tgt Ion: 76 Resp: 8056

Ion Ratio Lower Upper

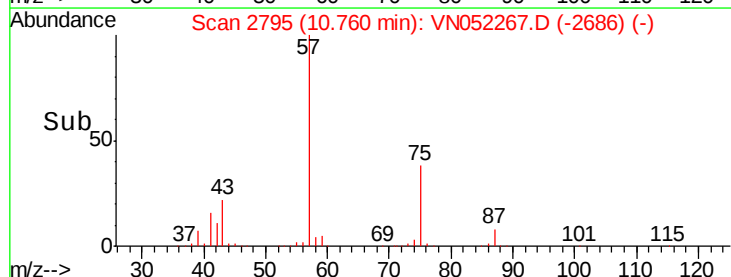
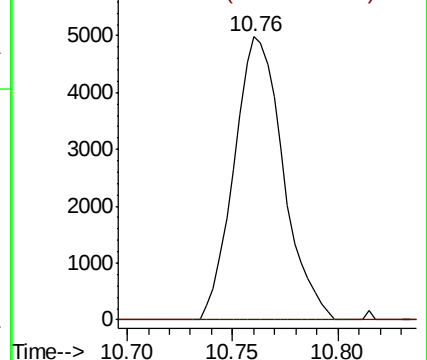
76 100

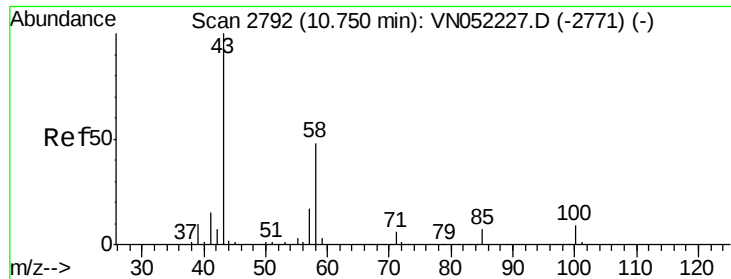
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

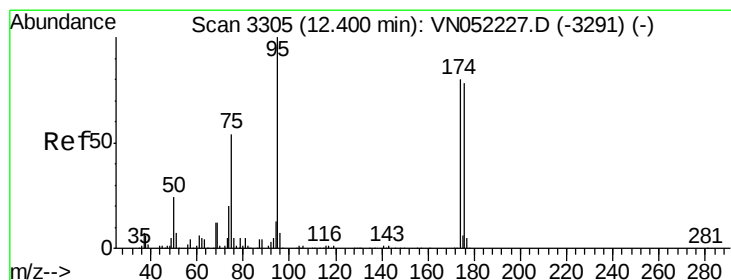
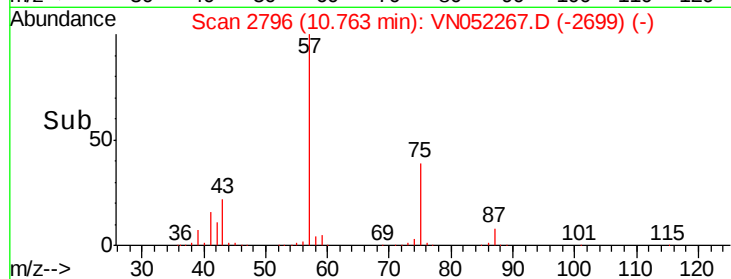
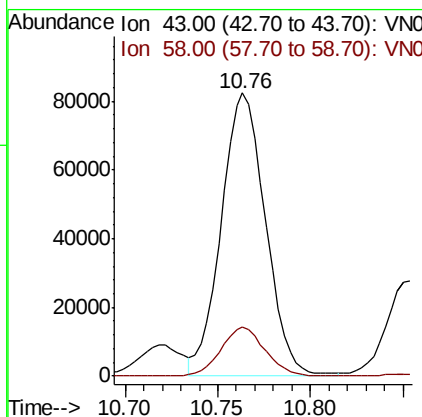
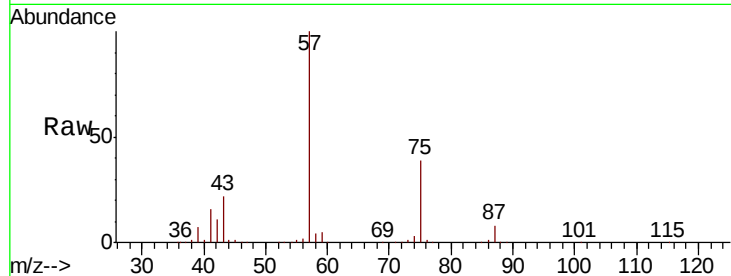




#59
2-Hexanone
Concen: 47.921 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052267.D
Acq: 12 Nov 2018 17:25

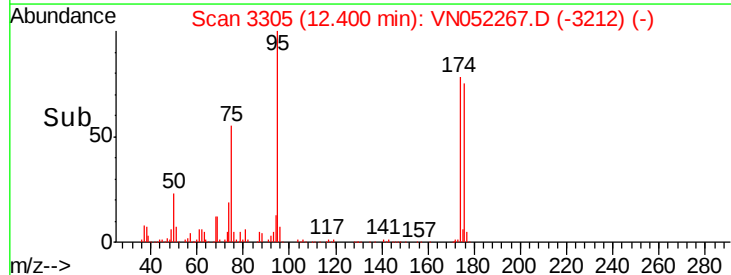
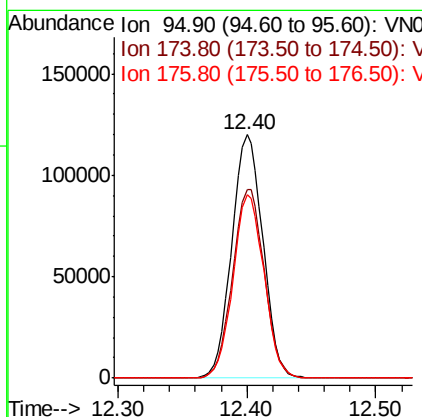
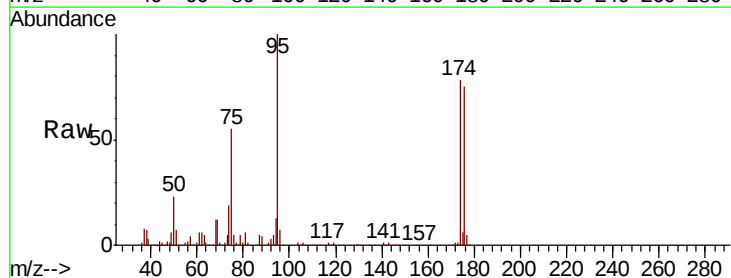
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#11

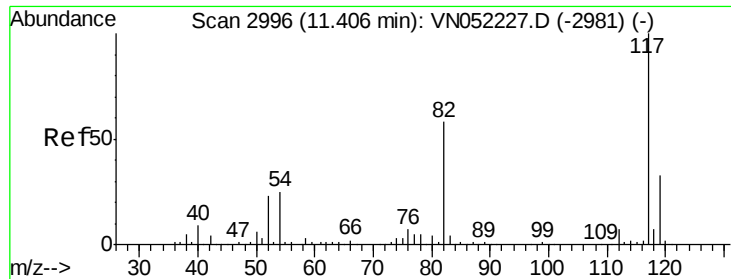
Tot Ion: 43 Resp: 135196
Ion Ratio Lower Upper
43 100
58 17.5 24.1 72.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052267.D
Acq: 12 Nov 2018 17:25

Tgt Ion: 95 Resp: 200765
Ion Ratio Lower Upper
95 100
174 78.9 0.0 159.4
176 75.0 0.0 157.8

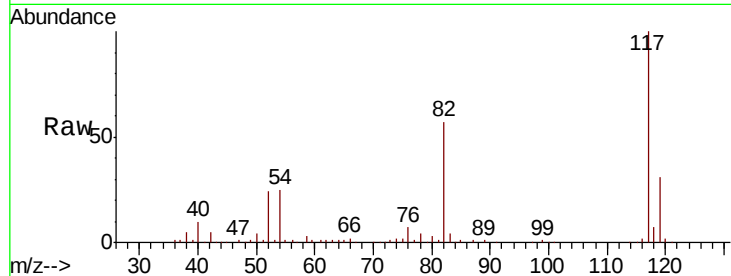




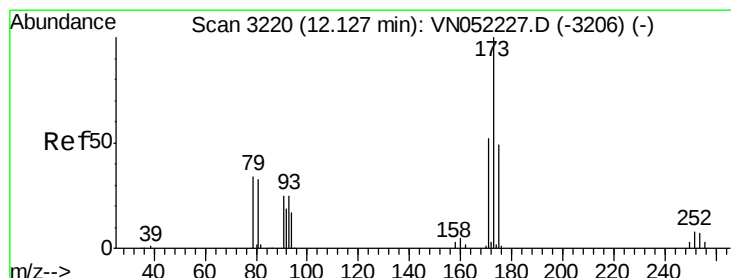
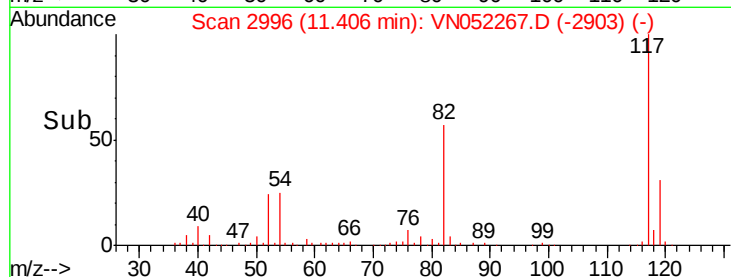
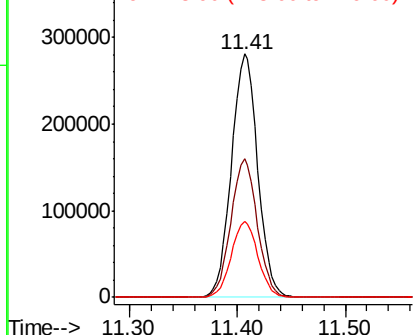
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052267.D
Acq: 12 Nov 2018 17:25

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#11

Tot Ion:117 Resp: 474555
Ion Ratio Lower Upper
117 100
82 57.0 46.2 69.2
119 31.2 26.2 39.4

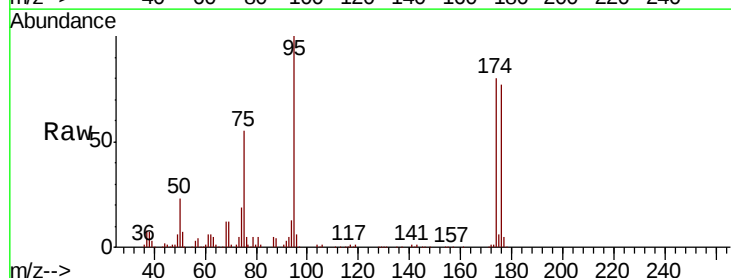


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

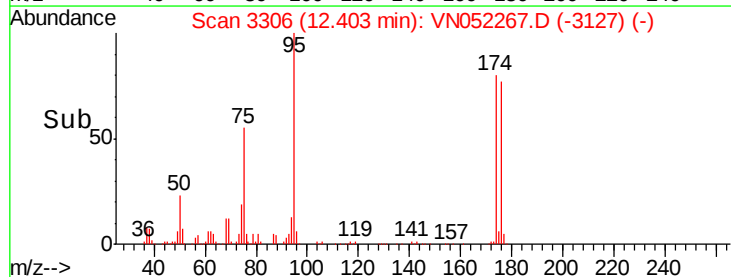
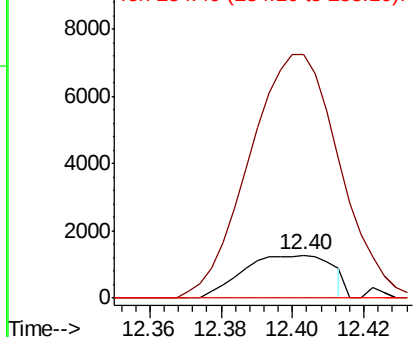


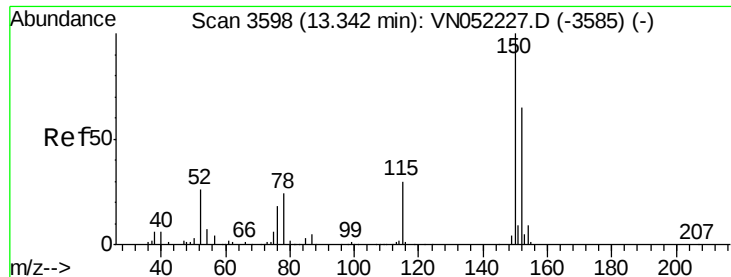
#71
Bromoform
Concen: 1.083 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052267.D
Acq: 12 Nov 2018 17:25

Tgt Ion:173 Resp: 2200
Ion Ratio Lower Upper
173 100
175 513.0 24.5 73.5#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#11

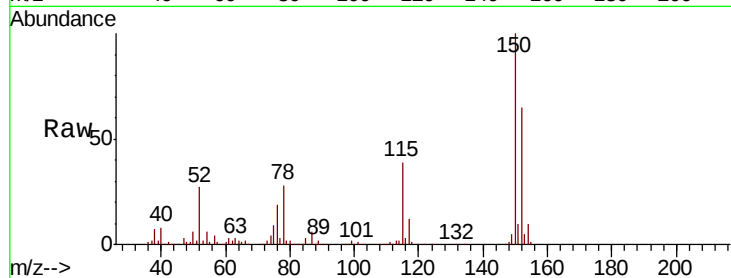
Tot Ion:152 Resp: 167290

Ion Ratio Lower Upper

152 100

115 61.6 29.8 89.5

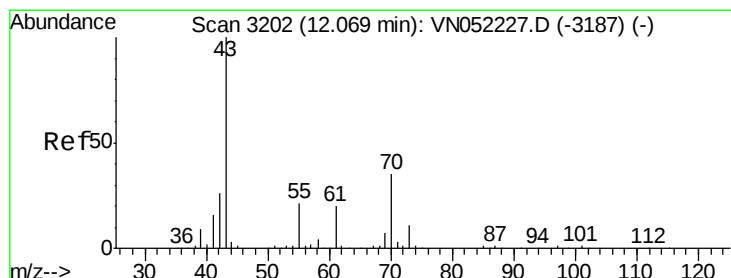
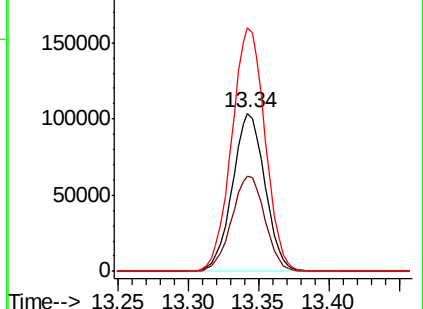
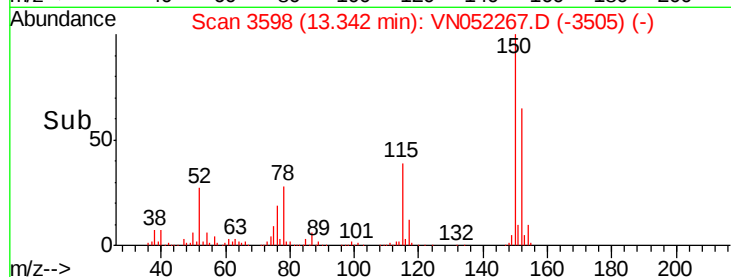
150 158.1 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 3.164 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

Tgt Ion: 43 Resp: 15708

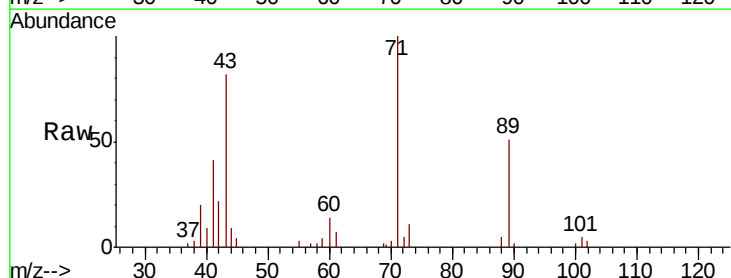
Ion Ratio Lower Upper

43 100

70 1.5 28.2 42.2#

55 4.4 17.4 26.2#

61 9.5 16.3 24.5#

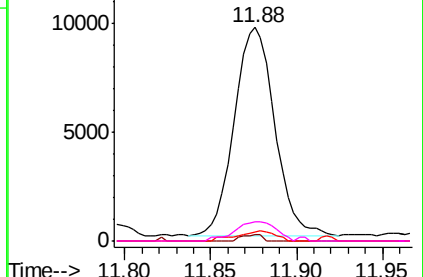
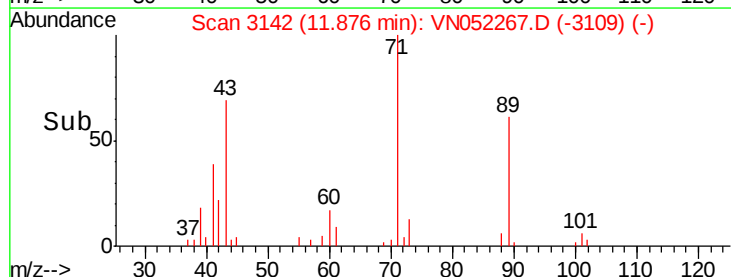


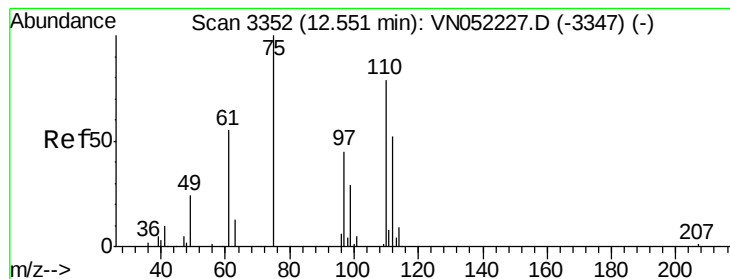
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 37.556 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

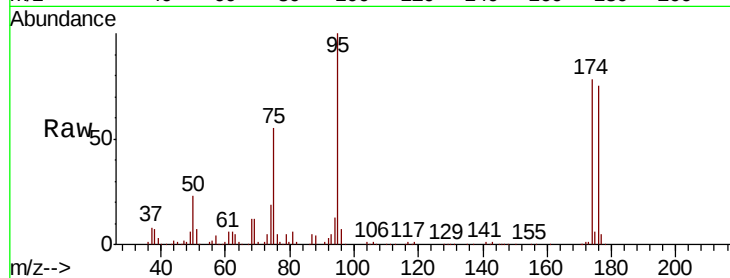
PB114678ZHE#11

Tot Ion: 75 Resp: 111157

Ion Ratio Lower Upper

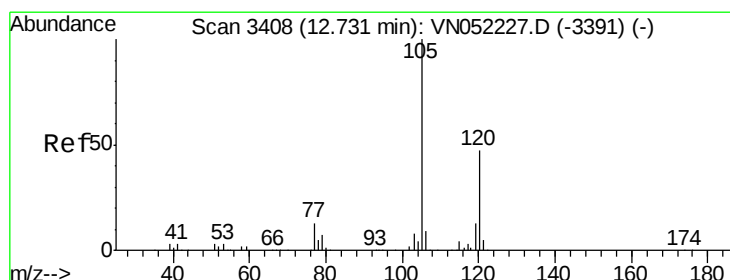
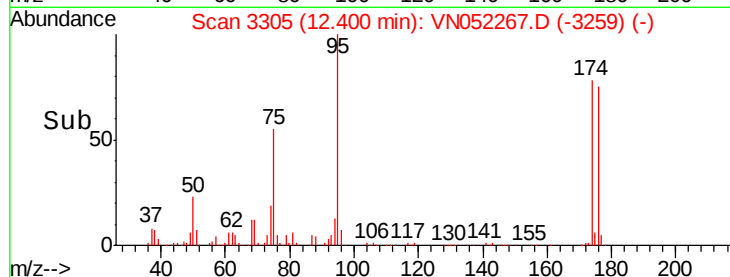
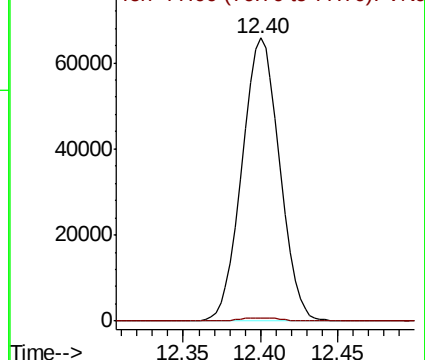
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.679 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052267.D

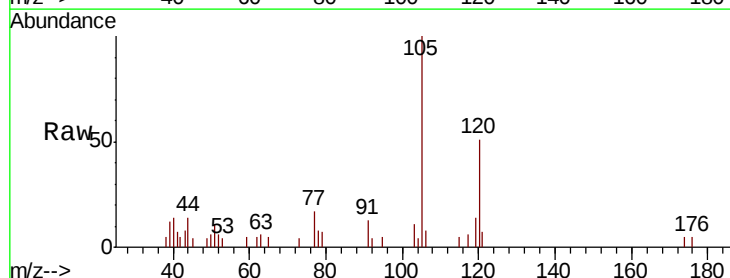
Acq: 12 Nov 2018 17:25

Tgt Ion: 105 Resp: 7388

Ion Ratio Lower Upper

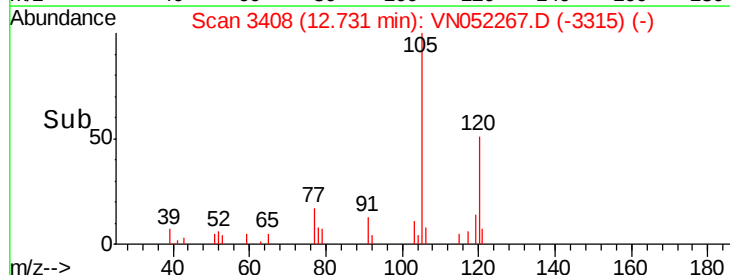
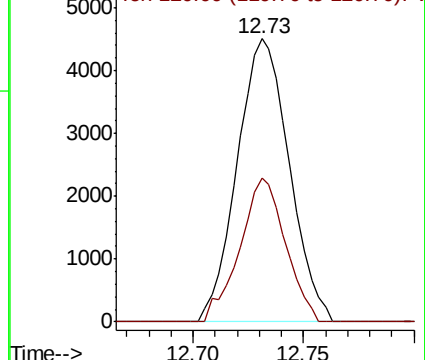
105 100

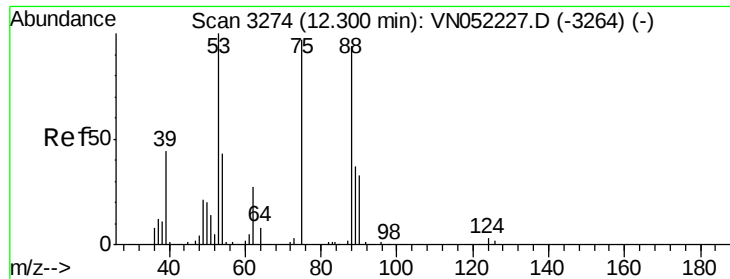
120 44.5 23.9 71.8



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: 128.194 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052267.D

Acq: 12 Nov 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#11

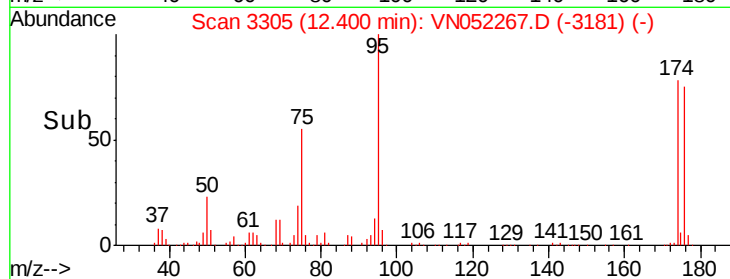
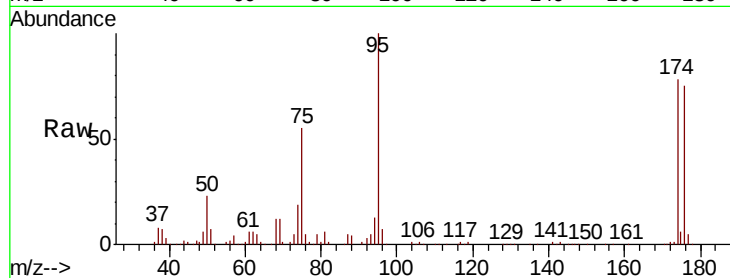
Tot Ion: 75 Resp: 111157

Ion Ratio Lower Upper

75 100

53 0.0 84.0 126.0#

89 0.0 33.7 50.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

