

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052271.D
 Acq On : 12 Nov 2018 19:11
 Operator : MD\SY
 Sample : PB114678ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#15

Quant Time: Nov 13 00:17:06 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	325507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	555643	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	473936	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	160710	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	219984	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
35) Dibromofluoromethane	7.59	113	174418	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
50) Toluene-d8	10.09	98	689422	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
62) 4-Bromofluorobenzene	12.40	95	196773	43.20	ug/l	0.00
Spiked Amount			Recovery	=	86.40%	

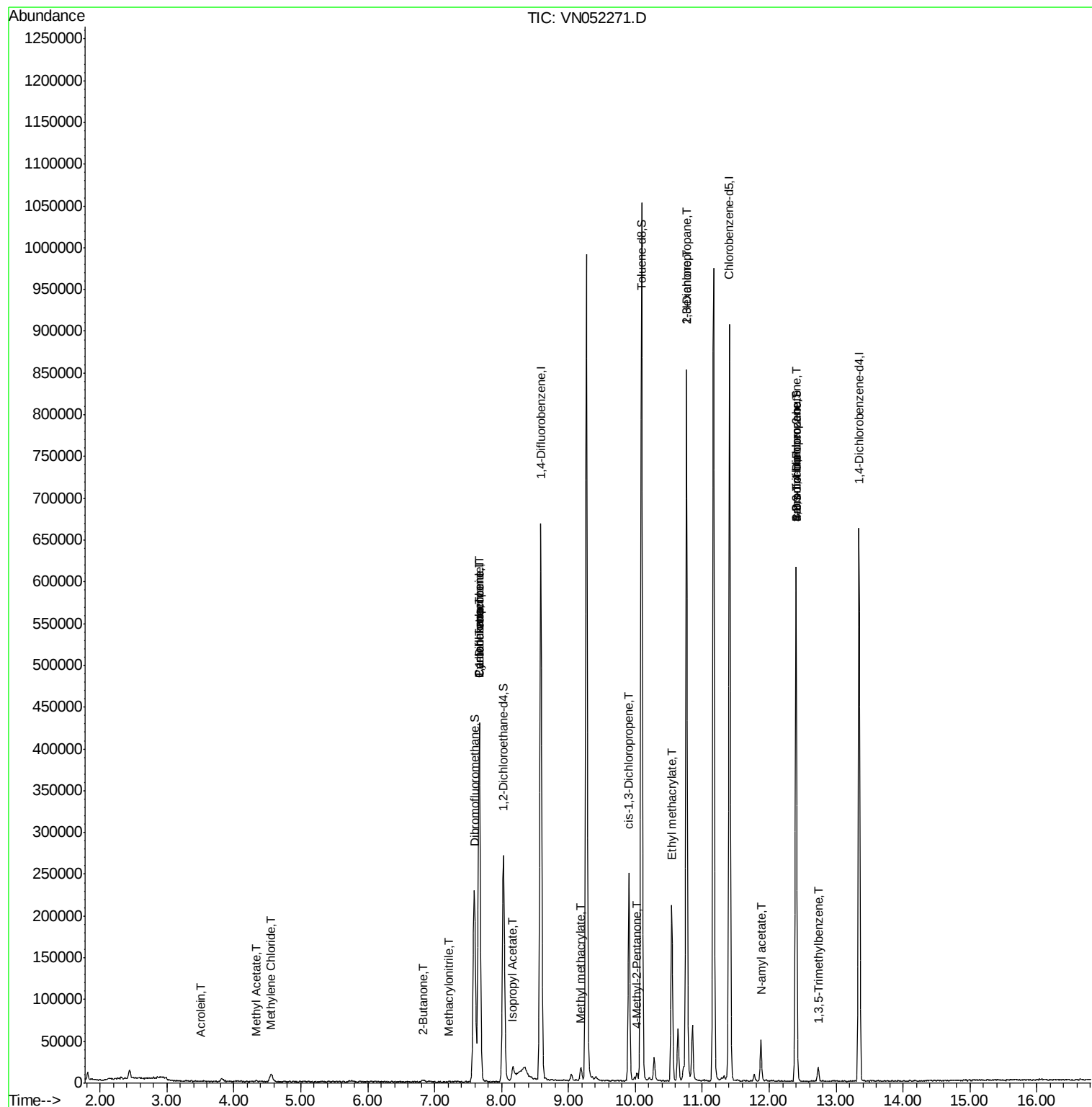
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.50	56	29	34.170	ug/l #	12
16) Acetone	3.82	43	6831	Below Cal		97
18) Methyl Acetate	4.33	43	1692	0.455	ug/l #	68
20) Methylene Chloride	4.55	84	5721	1.410	ug/l #	86
25) 2-Butanone	6.83	43	1103	0.581	ug/l #	52
31) Cyclohexane	7.67	56	9384	0.682	ug/l #	35
36) 1,1-Dichloropropene	7.67	75	30105	5.368	ug/l #	52
38) Carbon Tetrachloride	7.67	117	33478	6.587	ug/l #	17
41) Methacrylonitrile	7.21	41	509	0.208	ug/l #	30
43) Isopropyl Acetate	8.17	43	25164	3.422	ug/l #	88
48) Methyl methacrylate	9.18	41	6499	1.678	ug/l #	15
51) 4-Methyl-2-Pentanone	10.02	43	6059	1.492	ug/l #	40
54) cis-1,3-Dichloropropene	9.90	75	37965	6.105	ug/l #	72
56) Ethyl methacrylate	10.55	69	980	0.207	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7604	1.213	ug/l #	43
59) 2-Hexanone	10.76	43	134388	47.146	ug/l #	54
71) Bromoform	12.39	173	876	0.432	ug/l #	28
74) N-amyl acetate	11.88	43	15720	3.296	ug/l #	59
76) 1,2,3-Trichloropropane	12.40	75	106542	37.470	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7711	0.738	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	106542	127.903	ug/l #	8

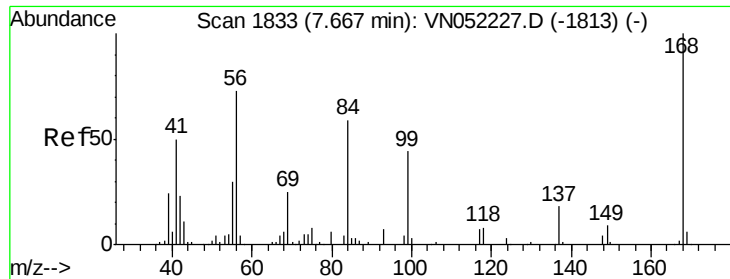
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Nov 12 00:34:27 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052271.D

Acq: 12 Nov 2018 19:11

Instrument :

MSVOA_N

ClientSampleId :

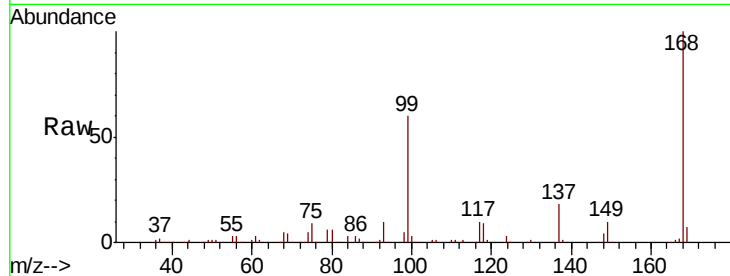
PB114678ZHE#15

Tot Ion:168 Resp: 325507

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): VNO

7.67

150000

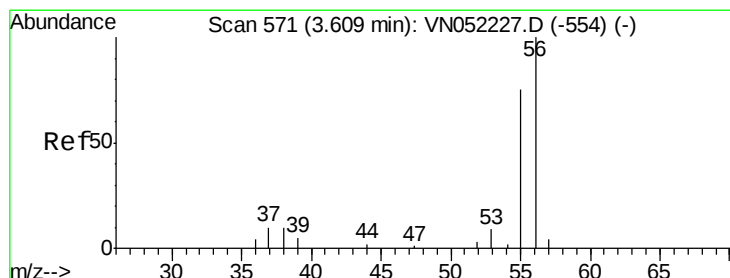
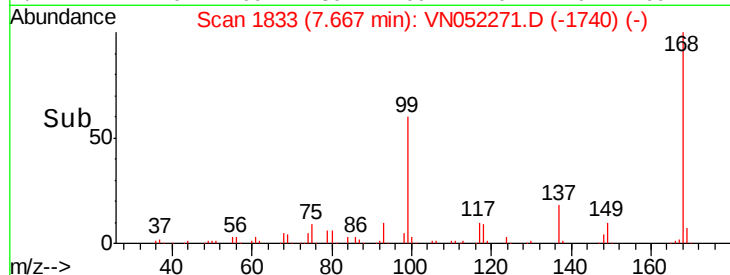
100000

50000

0

Time-->

7.60 7.70



#13

Acrolein

Concen: 34.170 ug/l

RT: 3.50 min Scan# 536

Delta R.T. -0.11 min

Lab File: VN052271.D

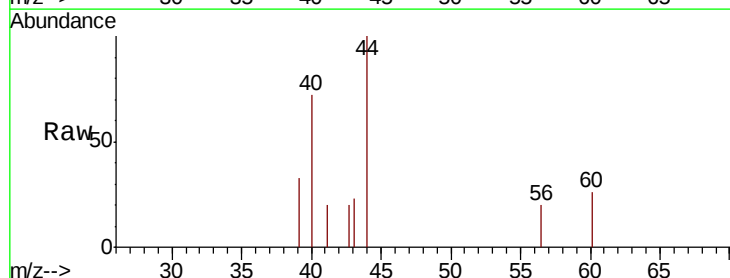
Acq: 12 Nov 2018 19:11

Tgt Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 0.0 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.50

150

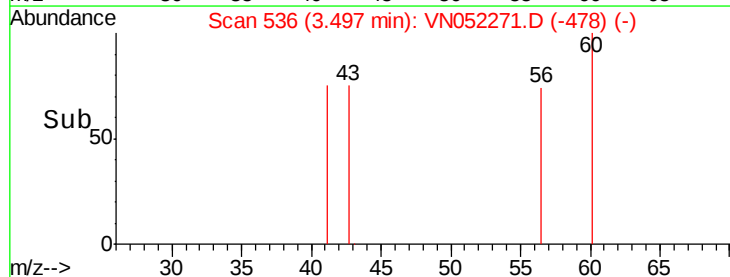
100

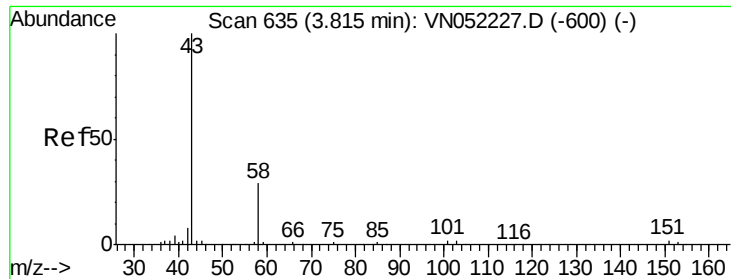
50

0

Time-->

3.48 3.49 3.50 3.50 3.50





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052271.D

Acq: 12 Nov 2018 19:11

Instrument :

MSVOA_N

ClientSampleId :

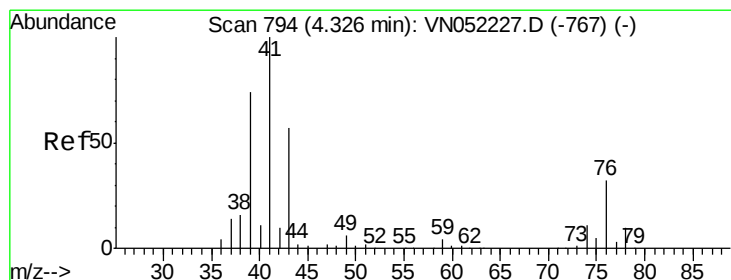
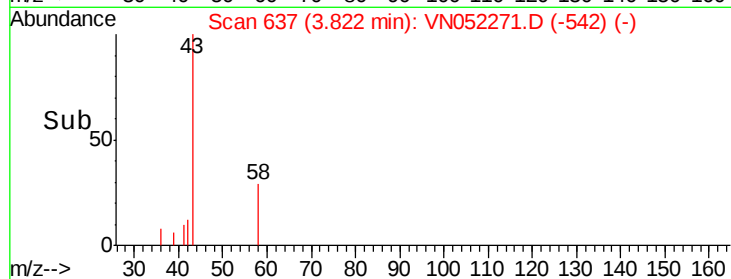
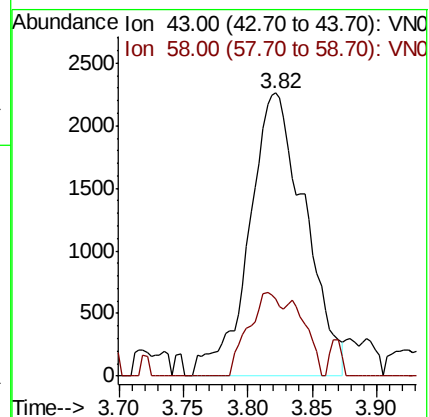
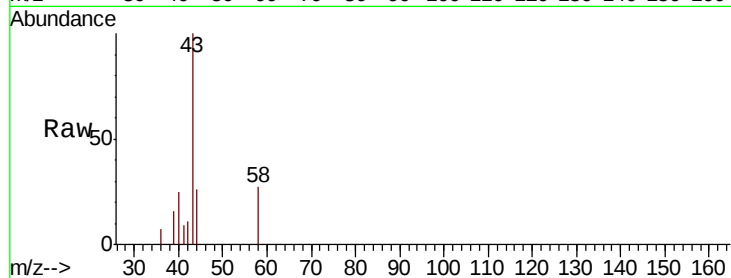
PB114678ZHE#15

Tot Ion: 43 Resp: 6831

Ion Ratio Lower Upper

43 100

58 27.4 23.0 34.6



#18

Methyl Acetate

Concen: 0.455 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052271.D

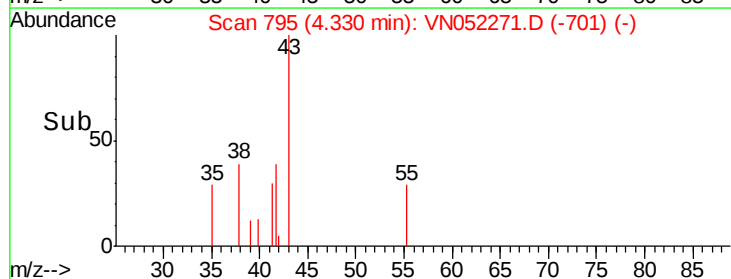
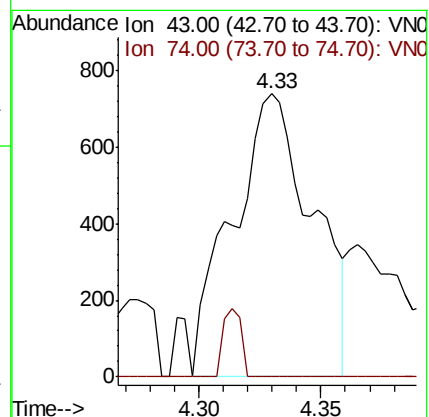
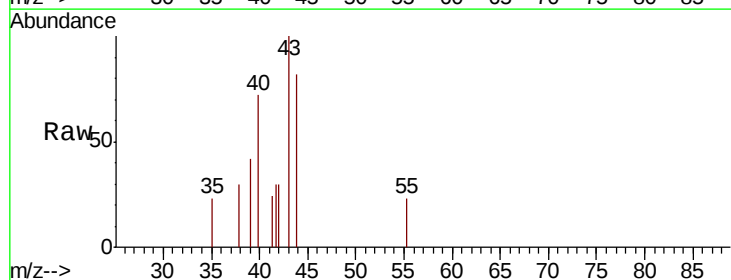
Acq: 12 Nov 2018 19:11

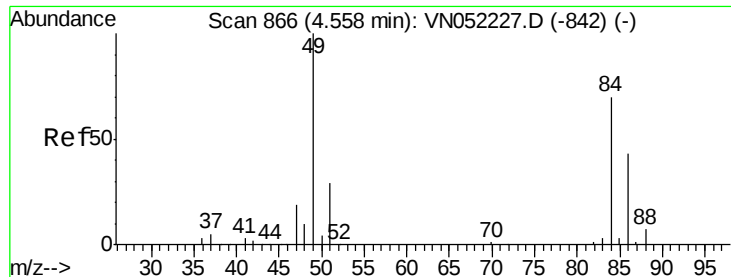
Tgt Ion: 43 Resp: 1692

Ion Ratio Lower Upper

43 100

74 5.6 16.2 24.2#

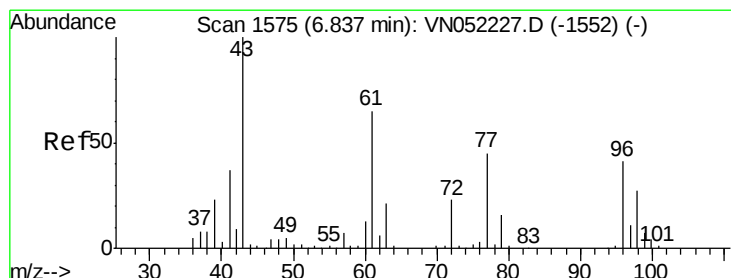
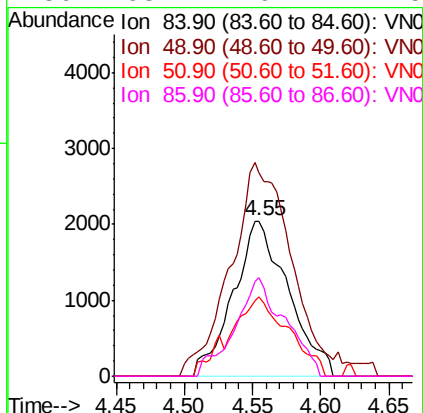
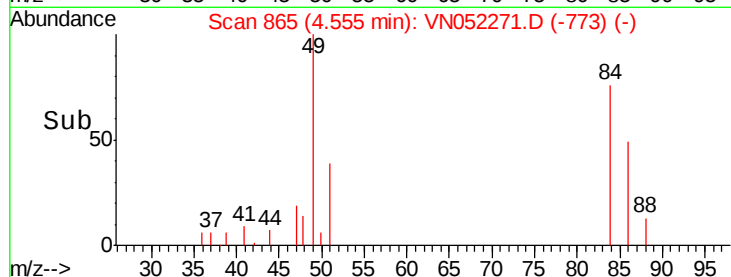
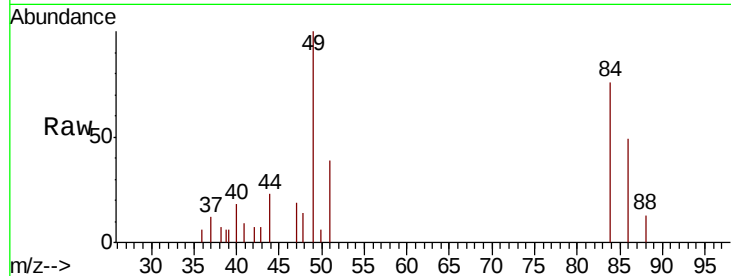




#20
Methvlene Chloride
Concen: 1.410 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052271.D
Acq: 12 Nov 2018 19:11

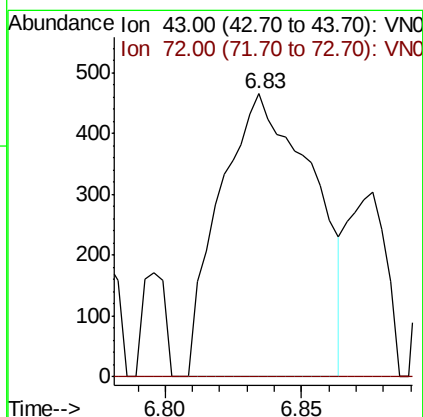
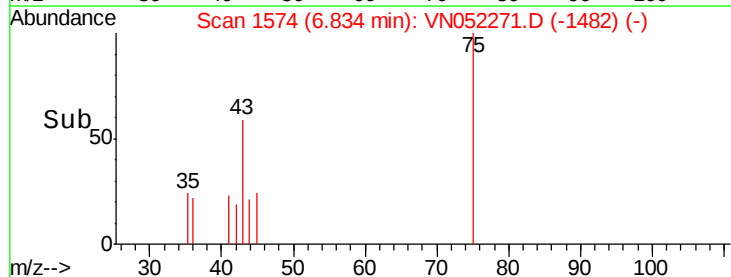
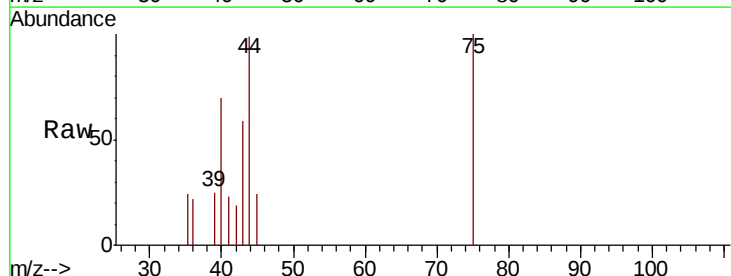
Instrument :
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PB114678ZHE#15

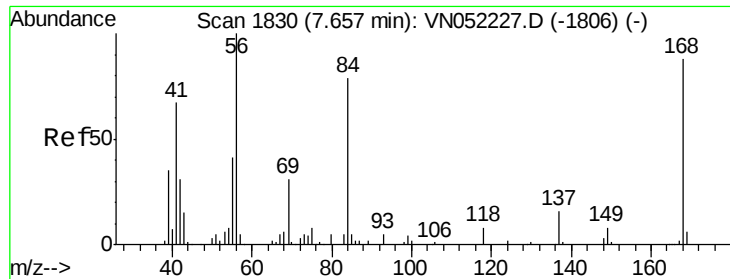
Tot Ion: 84 Resp: 5721
Ion Ratio Lower Upper
84 100
49 119.7 114.8 172.2
51 51.1 33.1 49.7#
86 63.7 49.7 74.5



#25
2-Butanone
Concen: 0.581 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VN052271.D
Acq: 12 Nov 2018 19:11

Tgt Ion: 43 Resp: 1103
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#

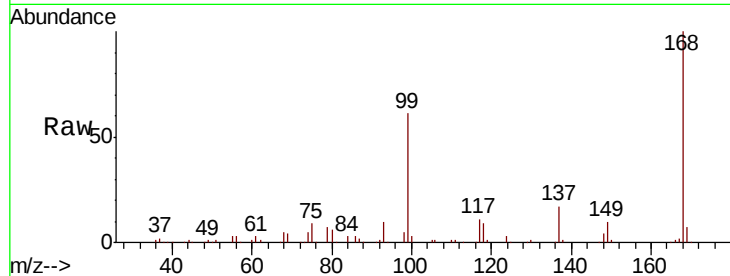




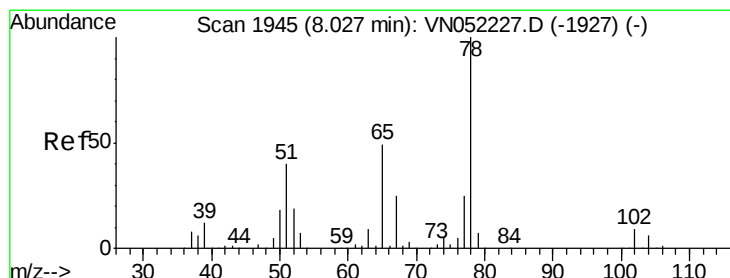
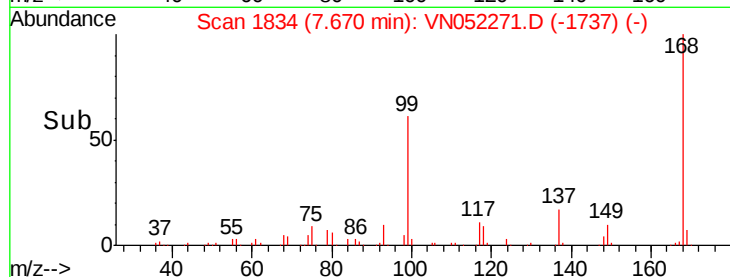
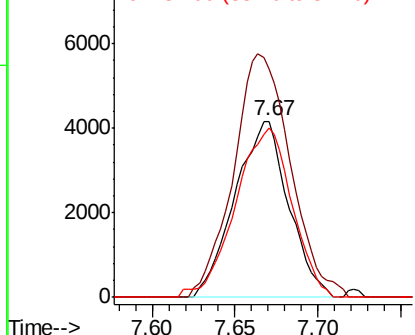
#31
Cyclohexane
Concen: 0.682 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN052271.D
Acq: 12 Nov 2018 19:11

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#15

Tot Ion: 56 Resp: 9384
Ion Ratio Lower Upper
56 100
69 130.1 24.8 37.2#
84 96.5 63.1 94.7#

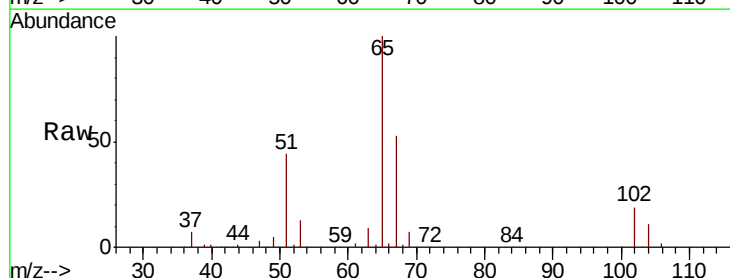


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

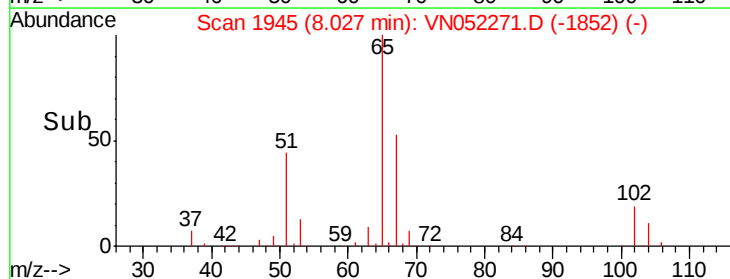
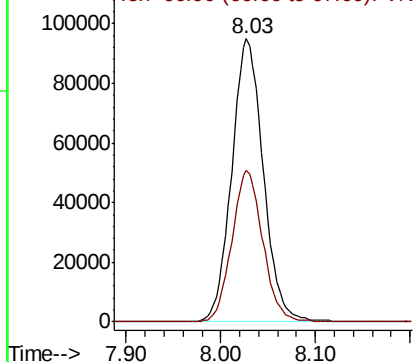


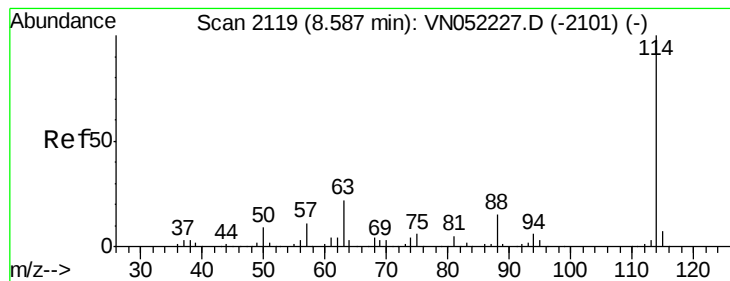
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052271.D
Acq: 12 Nov 2018 19:11

Tgt Ion: 65 Resp: 219984
Ion Ratio Lower Upper
65 100
67 52.4 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: VN052271.D

Acq: 12 Nov 2018 19:11

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#15

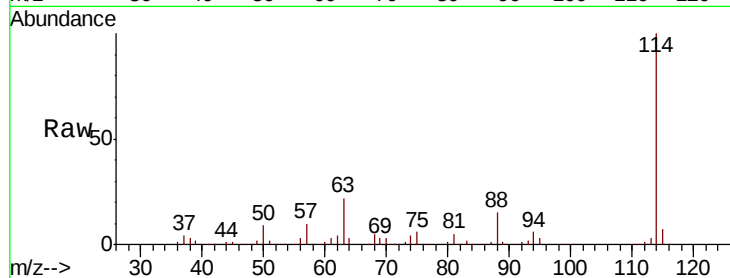
Tot Ion:114 Resp: 555643

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.4

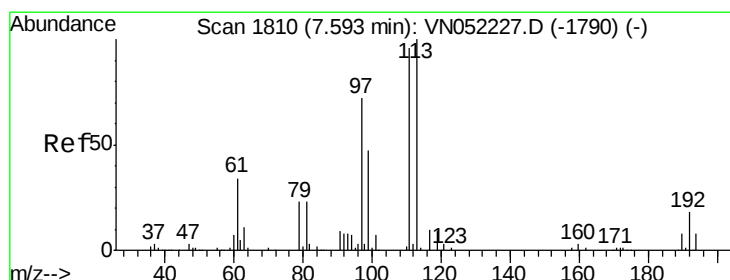
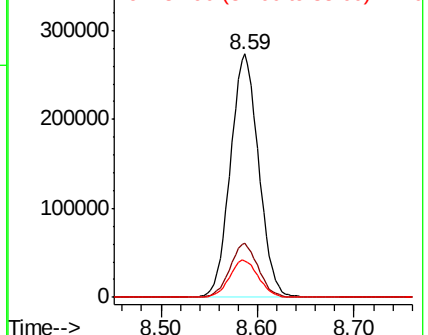
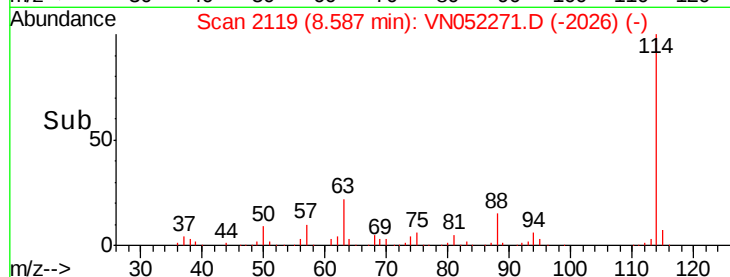
88 15.0 0.0 30.2



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: VN052271.D

Acq: 12 Nov 2018 19:11

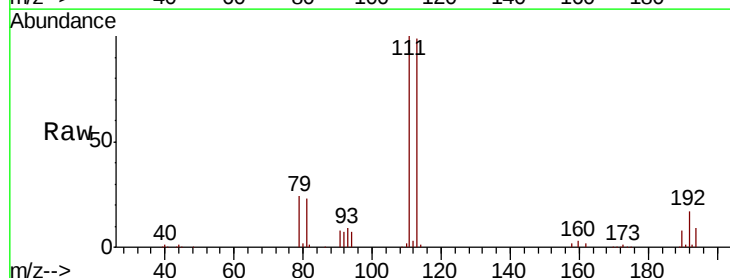
Tgt Ion:113 Resp: 174418

Ion Ratio Lower Upper

113 100

111 102.4 80.2 120.4

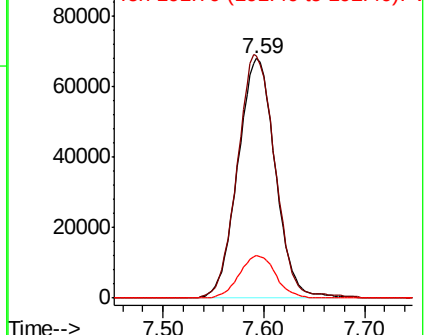
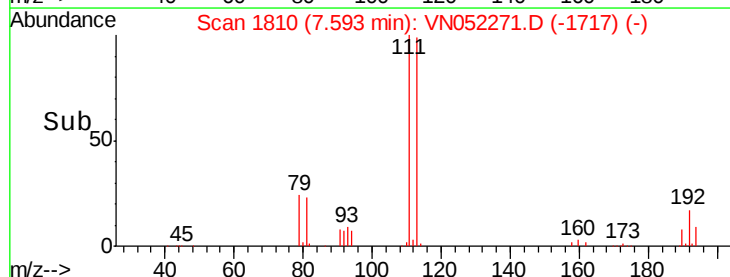
192 17.3 14.1 21.1

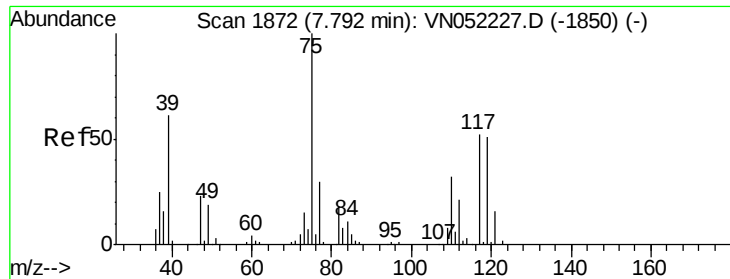


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

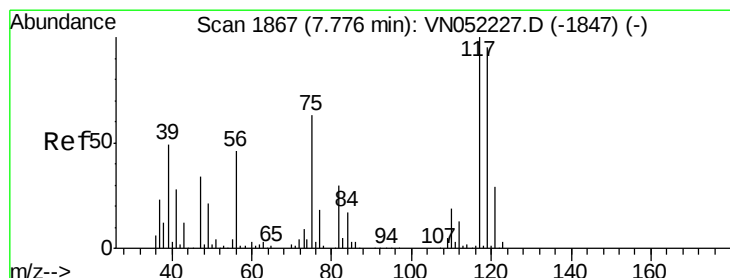
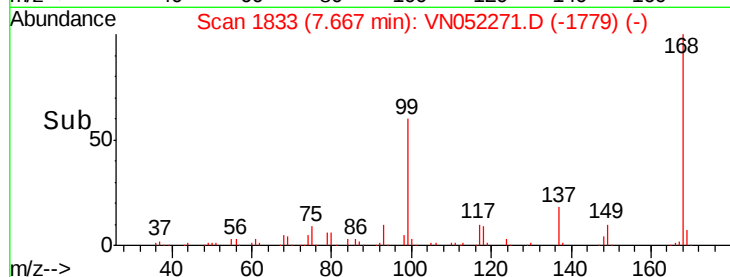
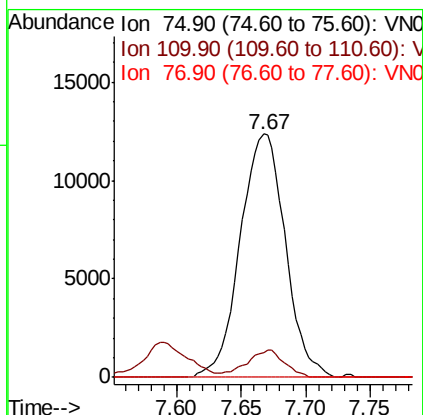
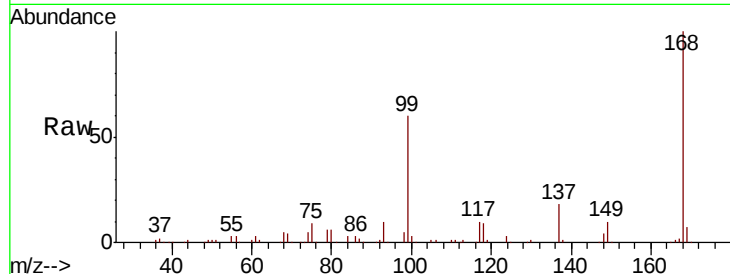




#36
 1,1-Dichloropropene
 Concen: 5.368 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052271.D
 Acq: 12 Nov 2018 19:11

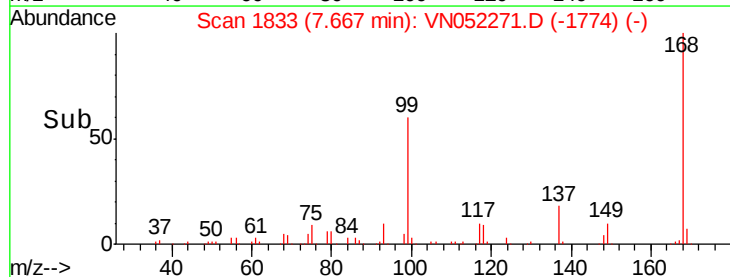
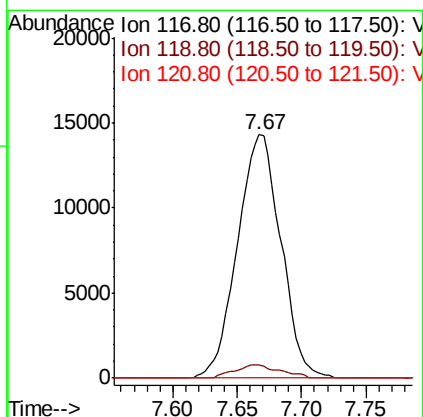
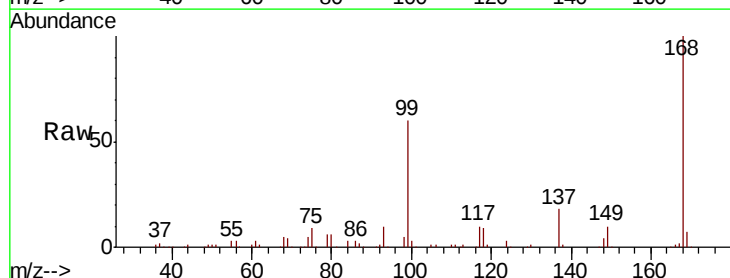
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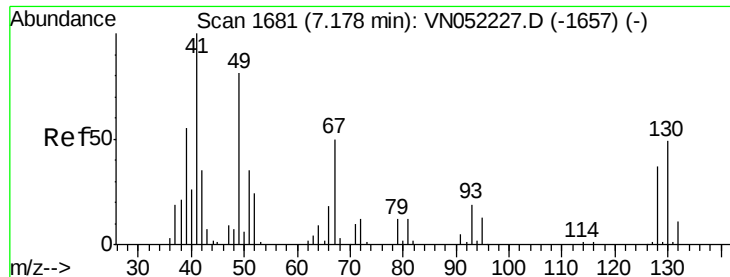
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	16.4	49.4#
77	0.0	23.9	35.9#



#38
 Carbon Tetrachloride
 Concen: 6.587 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052271.D
 Acq: 12 Nov 2018 19:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	75.8	113.8#
121	0.0	23.4	35.2#

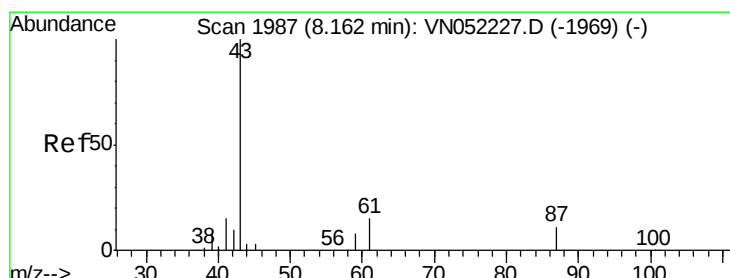
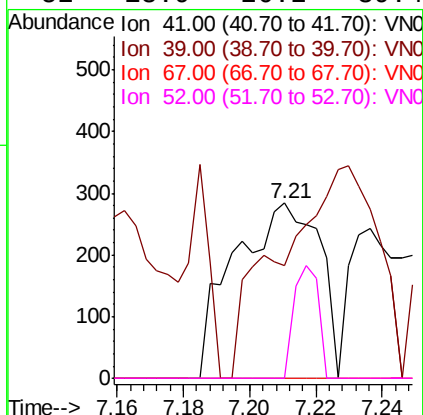
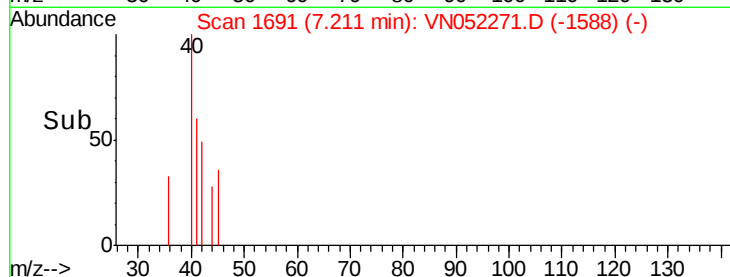
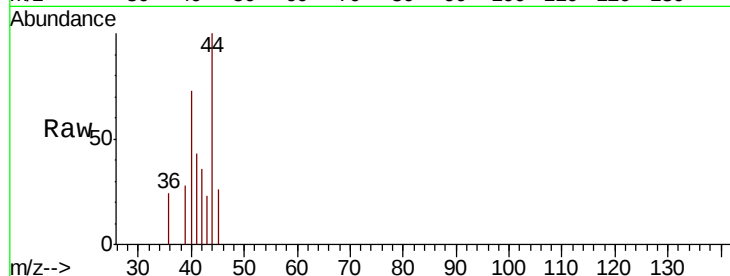




#41
Methacrylonitrile
Concen: 0.208 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.03 min
Lab File: VN052271.D
Acq: 12 Nov 2018 19:11

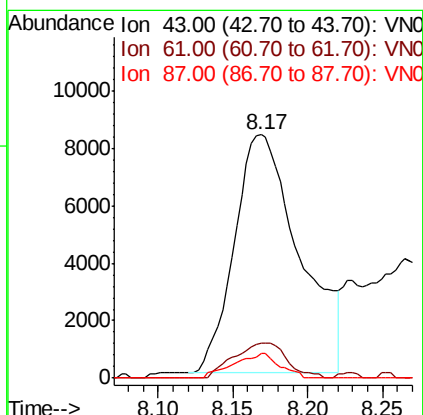
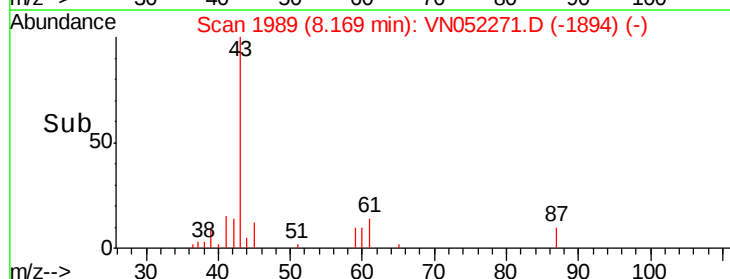
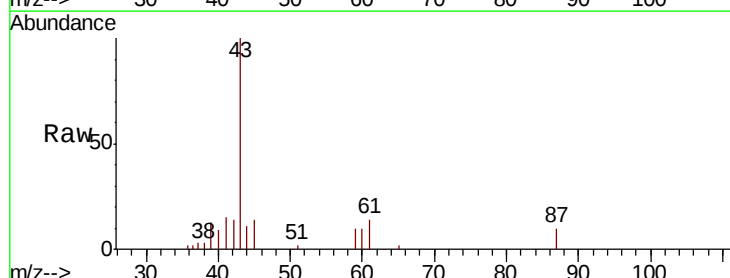
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#15

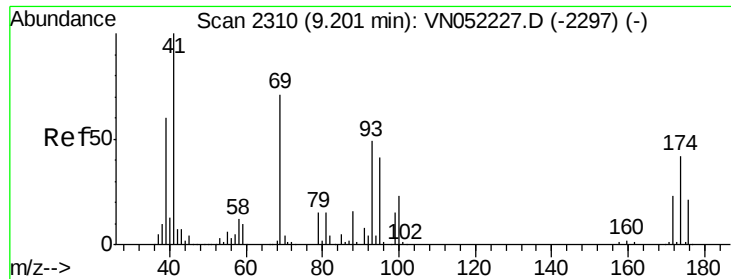
Tot Ion: 41 Resp: 509
Ion Ratio Lower Upper
41 100
39 0.0 47.8 71.6#
67 0.0 54.3 81.5#
52 18.9 26.2 39.4#



#43
Isopropyl Acetate
Concen: 3.422 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN052271.D
Acq: 12 Nov 2018 19:11

Tgt Ion: 43 Resp: 25164
Ion Ratio Lower Upper
43 100
61 12.0 14.2 21.4#
87 7.3 8.4 12.6#

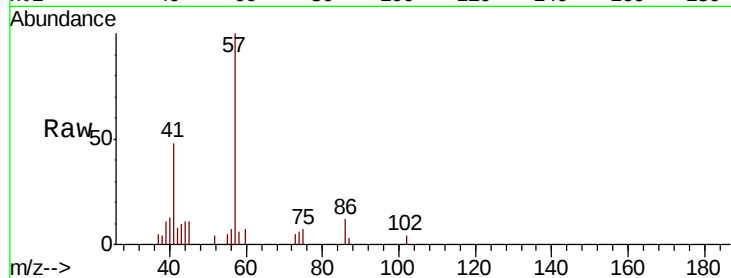




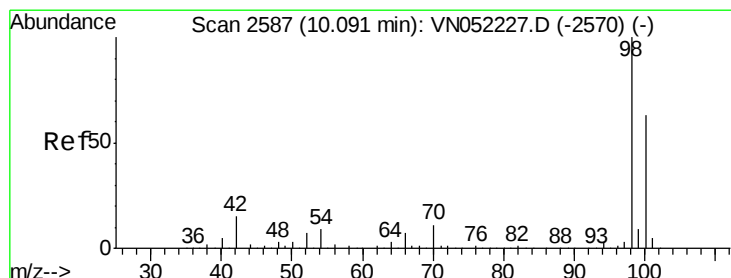
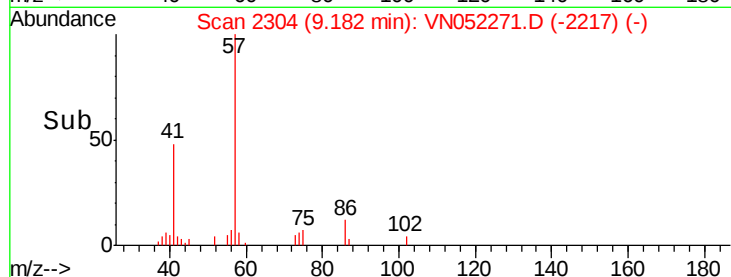
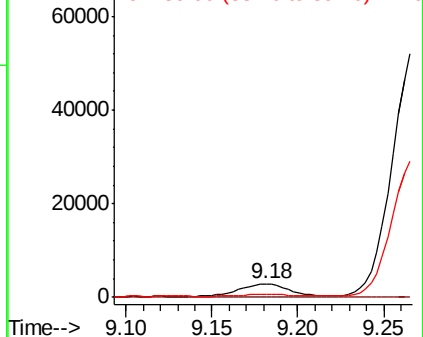
#48
Methvl methacrylate
Concen: 1.678 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052271.D
Acq: 12 Nov 2018 19:11

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#15

Tot Ion: 41 Resp: 6499
Ion Ratio Lower Upper
41 100
69 0.0 58.8 88.2#
39 0.0 50.7 76.1#

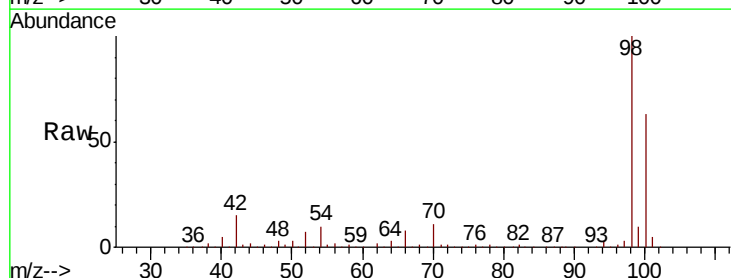


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

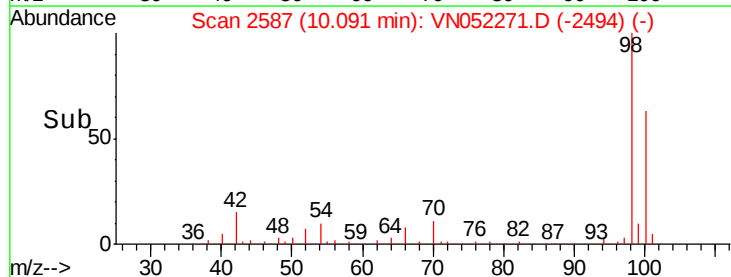
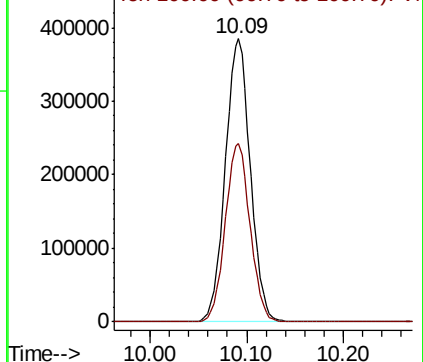


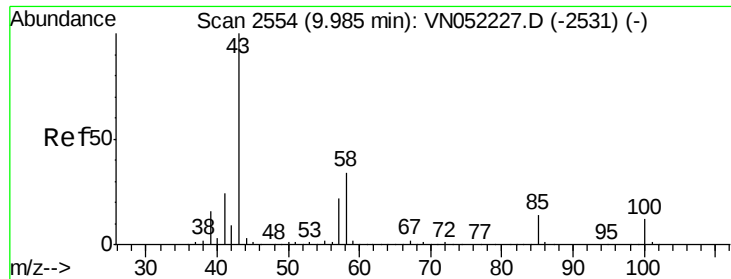
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052271.D
Acq: 12 Nov 2018 19:11

Tgt Ion: 98 Resp: 689422
Ion Ratio Lower Upper
98 100
100 62.7 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: 1.492 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052271.D

Acq: 12 Nov 2018 19:11

Instrument :

MSVOA_N

ClientSampleId :

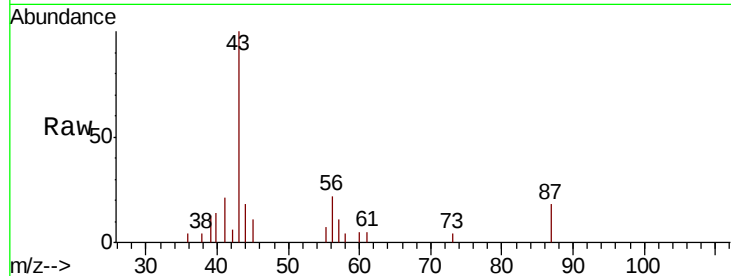
PB114678ZHE#15

Tot Ion: 43 Resp: 6059

Ion Ratio Lower Upper

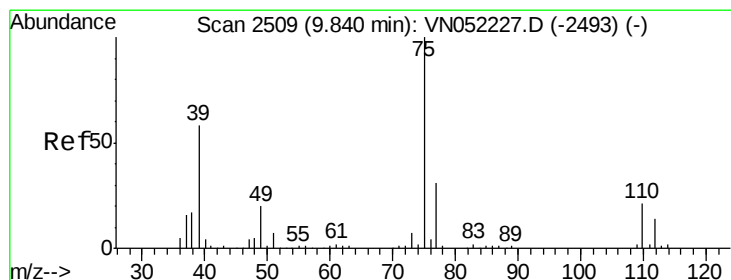
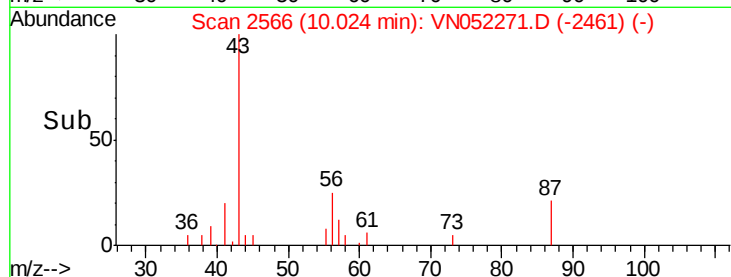
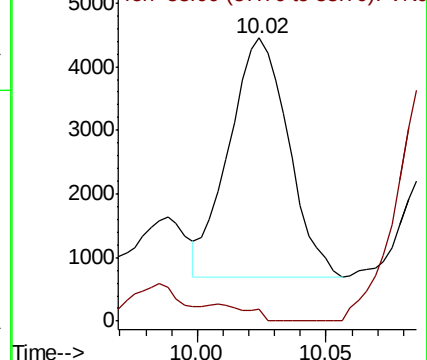
43 100

58 0.0 27.4 41.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.105 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052271.D

Acq: 12 Nov 2018 19:11

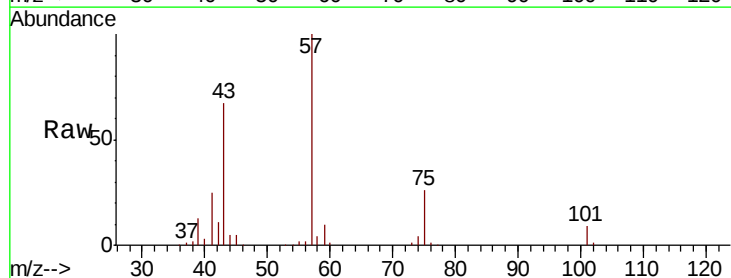
Tgt Ion: 75 Resp: 37965

Ion Ratio Lower Upper

75 100

77 0.8 25.2 37.8#

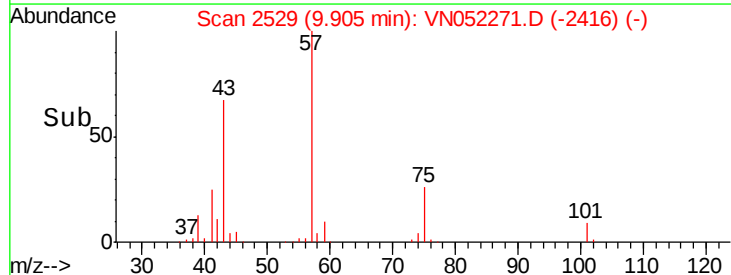
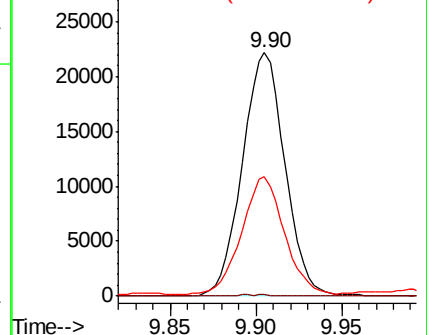
39 48.1 46.6 70.0

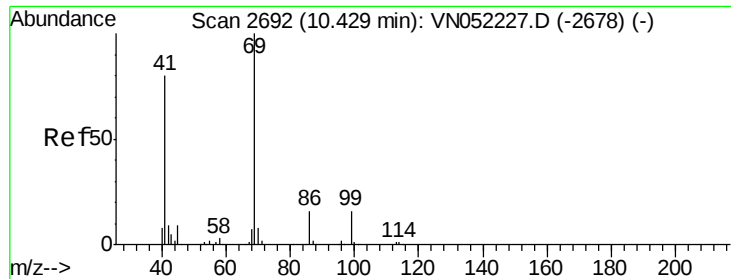


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.207 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN052271.D

Acq: 12 Nov 2018 19:11

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#15

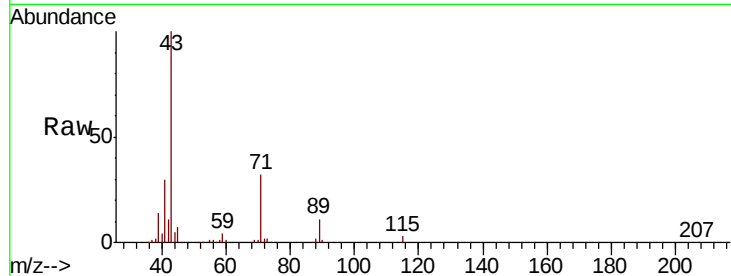
Tot Ion: 69 Resp: 980

Ion Ratio Lower Upper

69 100

41 4720.0 64.0 96.0#

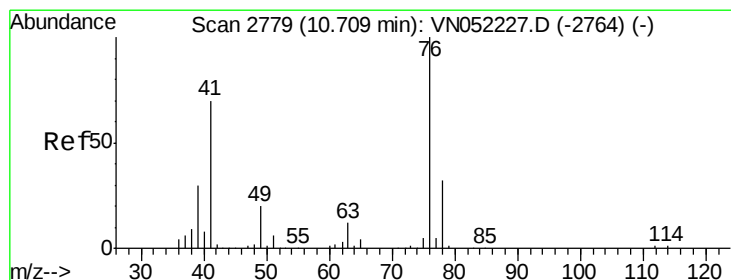
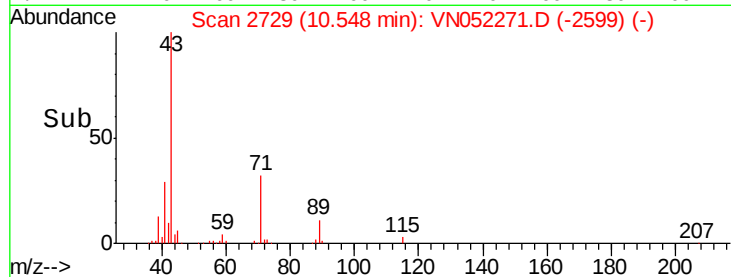
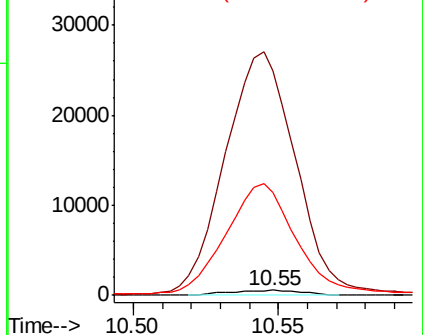
39 2059.7 37.8 56.8#



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



#57

1,3-Dichloropropane

Concen: 1.213 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052271.D

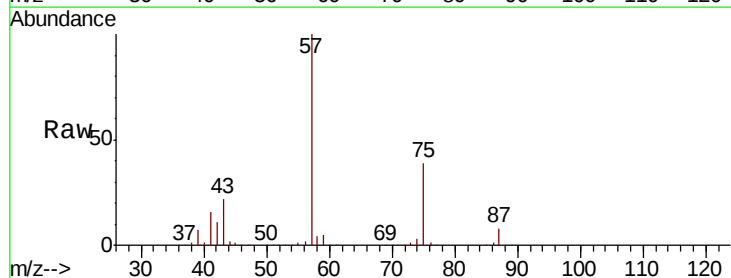
Acq: 12 Nov 2018 19:11

Tgt Ion: 76 Resp: 7604

Ion Ratio Lower Upper

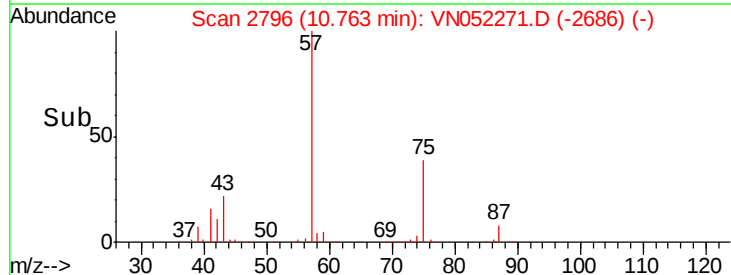
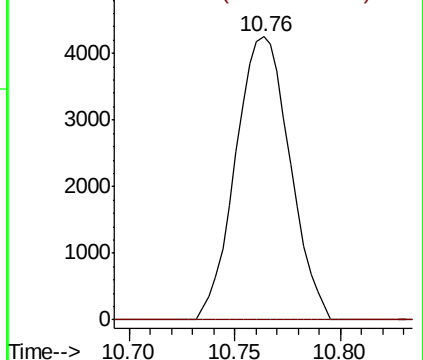
76 100

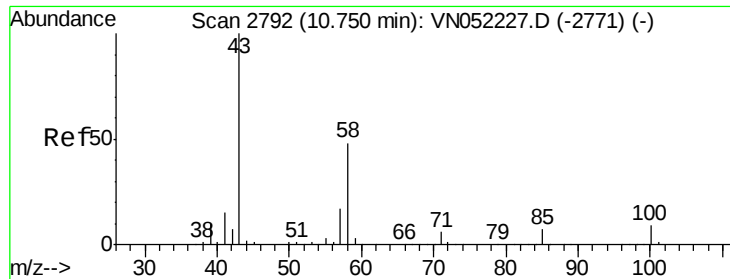
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

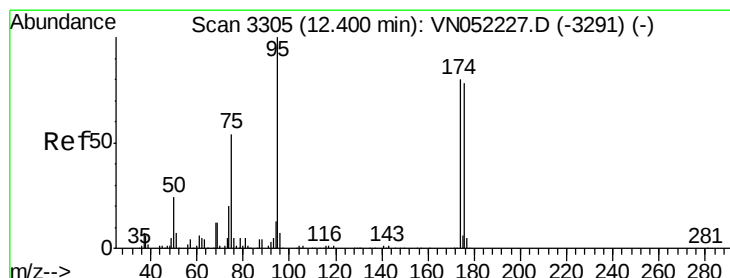
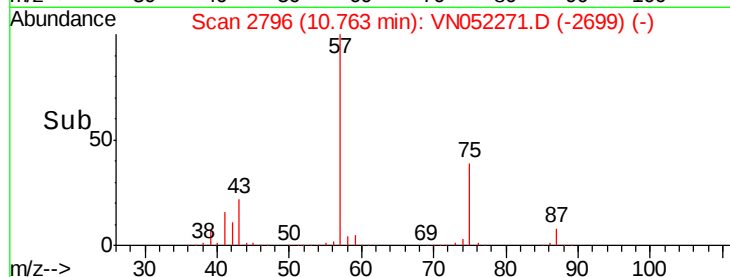
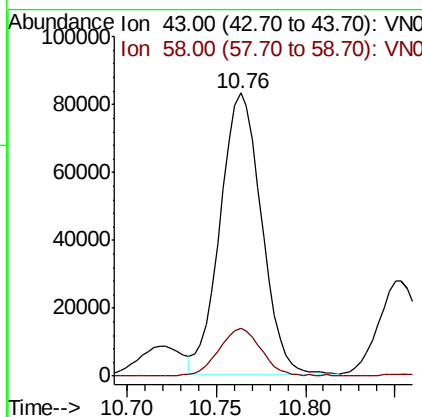
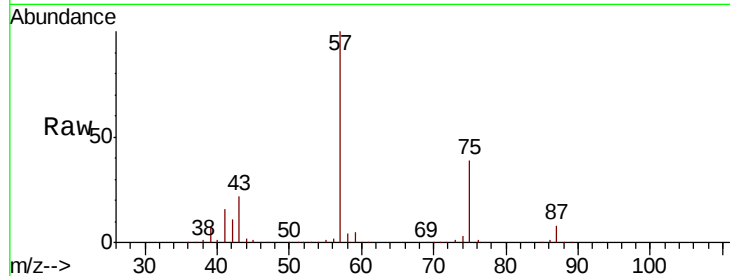




#59
2-Hexanone
Concen: 47.146 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052271.D
Acq: 12 Nov 2018 19:11

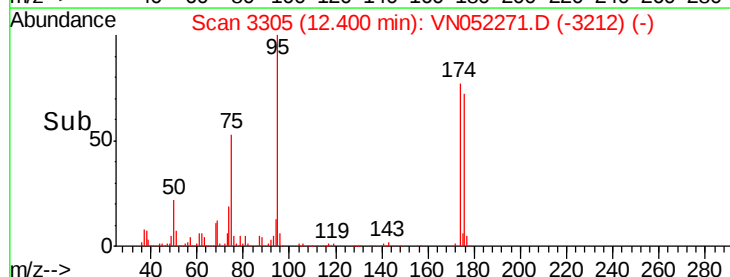
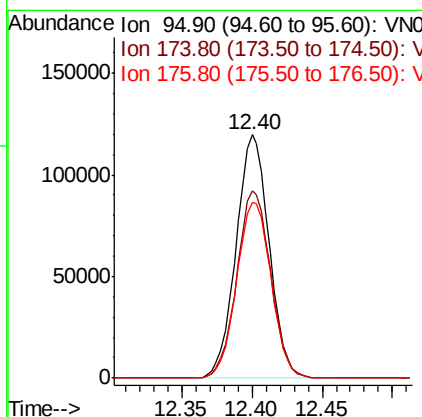
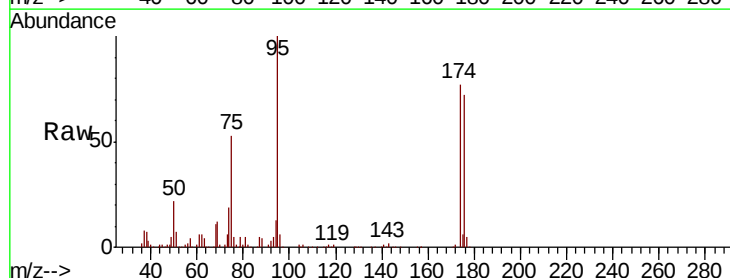
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#15

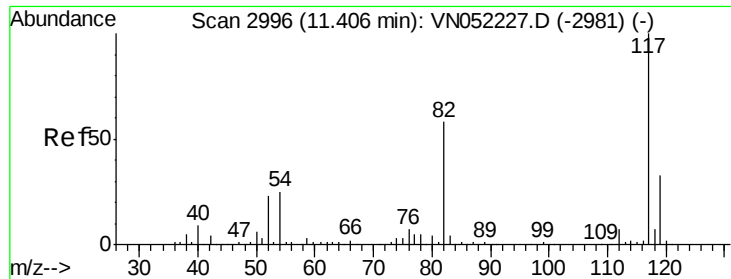
Tot Ion: 43 Resp: 134388
Ion Ratio Lower Upper
43 100
58 17.4 24.1 72.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052271.D
Acq: 12 Nov 2018 19:11

Tgt Ion: 95 Resp: 196773
Ion Ratio Lower Upper
95 100
174 78.7 0.0 159.4
176 75.2 0.0 157.8

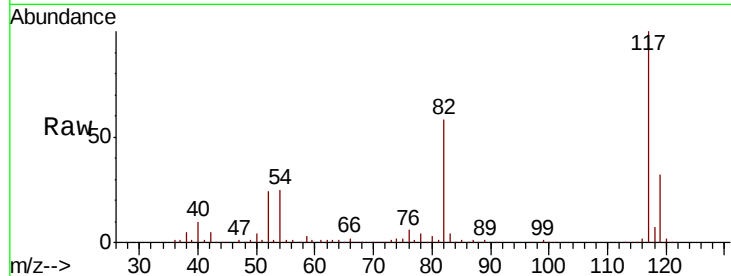




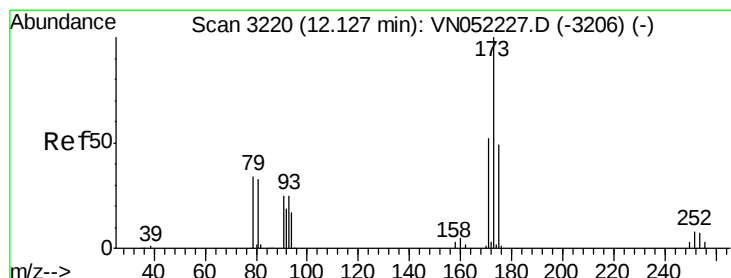
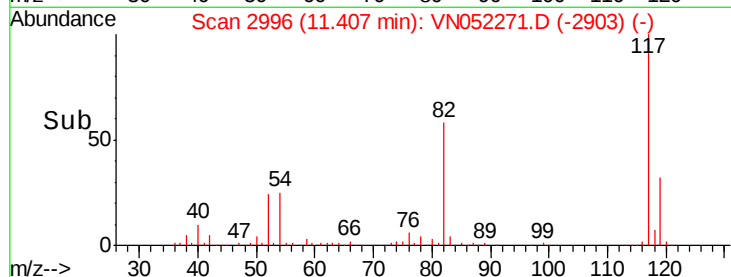
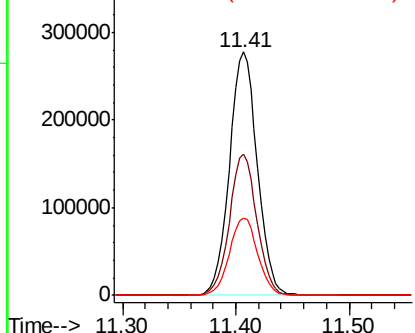
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052271.D
Acq: 12 Nov 2018 19:11

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#15

Tot Ion:117 Resp: 473936
Ion Ratio Lower Upper
117 100
82 58.2 46.2 69.2
119 32.0 26.2 39.4

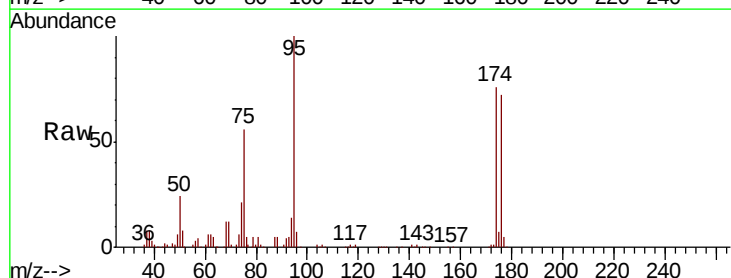


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

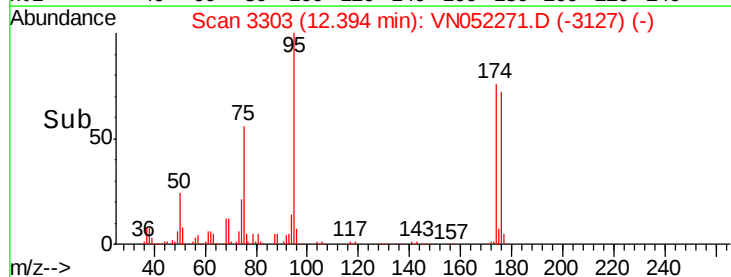
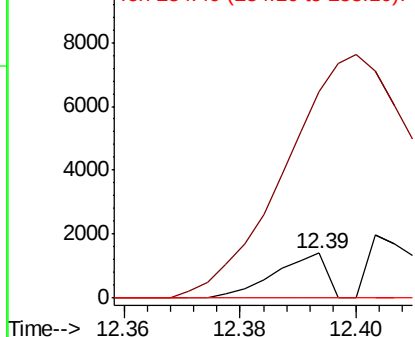


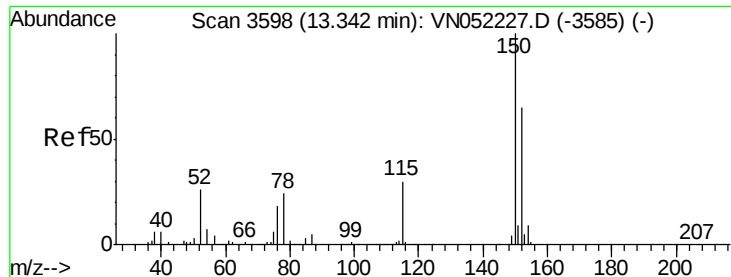
#71
Bromoform
Concen: 0.432 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN052271.D
Acq: 12 Nov 2018 19:11

Tgt Ion:173 Resp: 876
Ion Ratio Lower Upper
173 100
175 0.0 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: VN052271.D

Acq: 12 Nov 2018 19:11

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#15

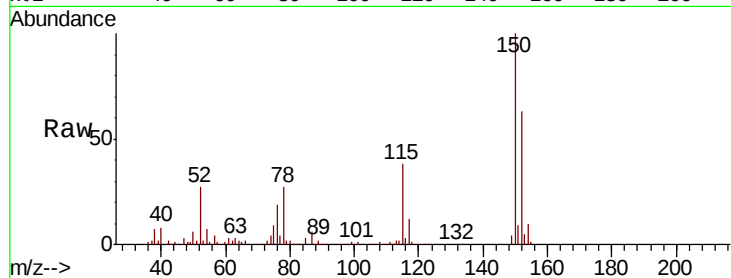
Tot Ion:152 Resp: 160710

Ion Ratio Lower Upper

152 100

115 59.8 29.8 89.5

150 159.3 0.0 350.2

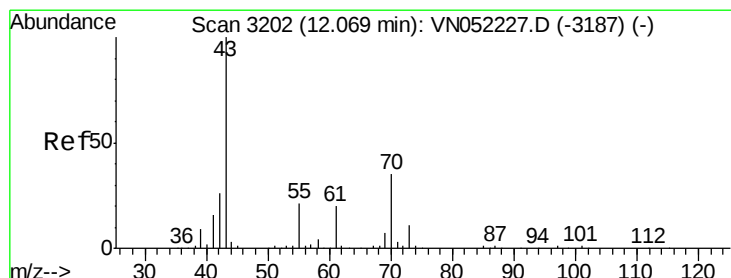
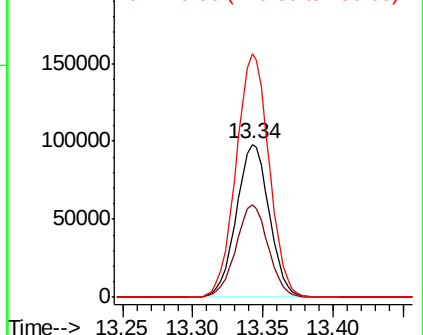
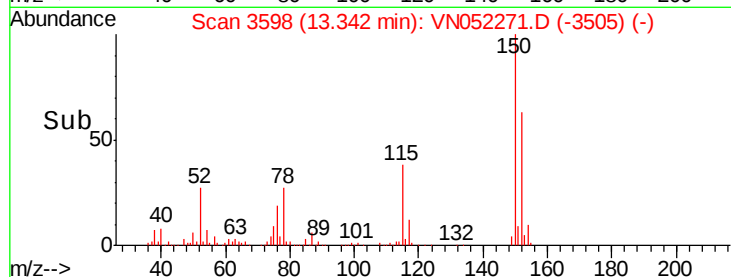


Abundance

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: 3.296 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052271.D

Acq: 12 Nov 2018 19:11

Tgt Ion: 43 Resp: 15720

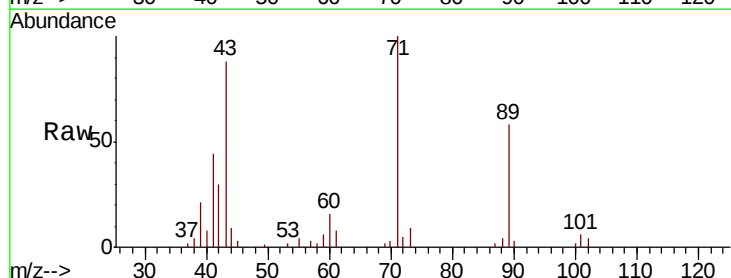
Ion Ratio Lower Upper

43 100

70 2.8 28.2 42.2#

55 4.8 17.4 26.2#

61 10.0 16.3 24.5#



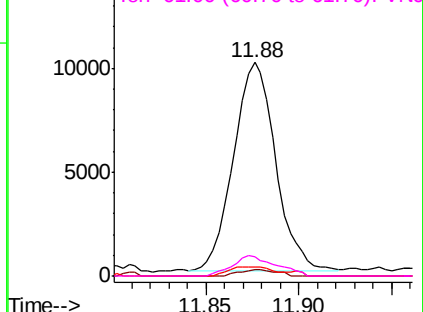
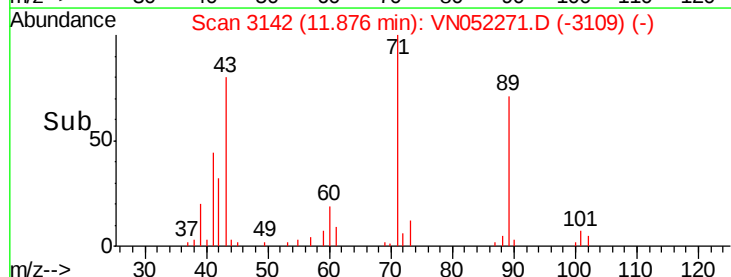
Abundance

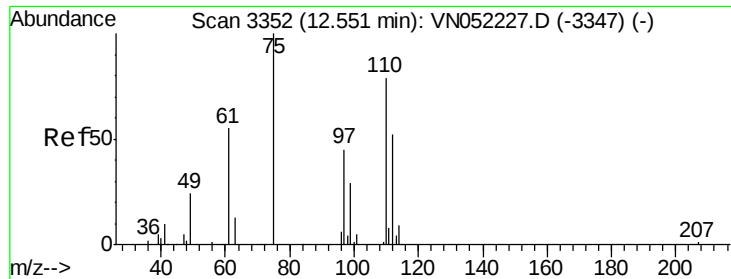
Ion 43.00 (42.70 to 43.70): V

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

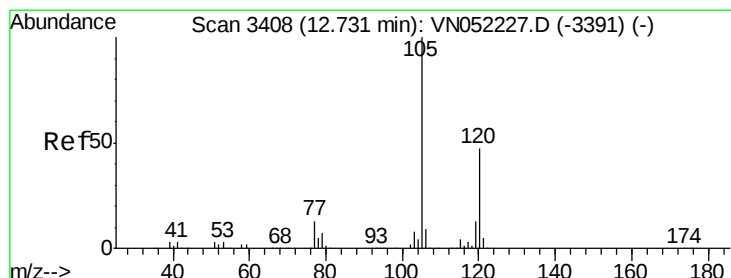
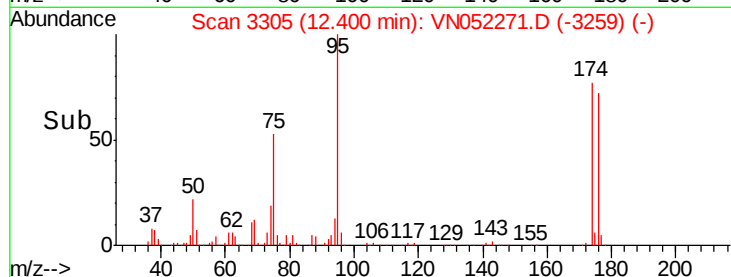
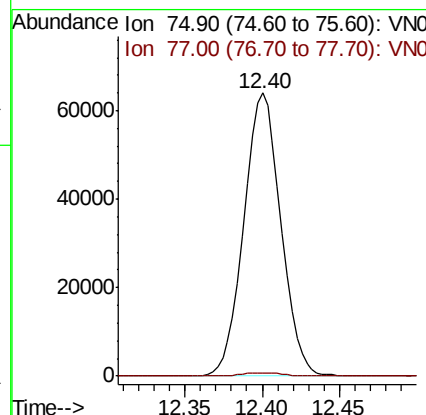
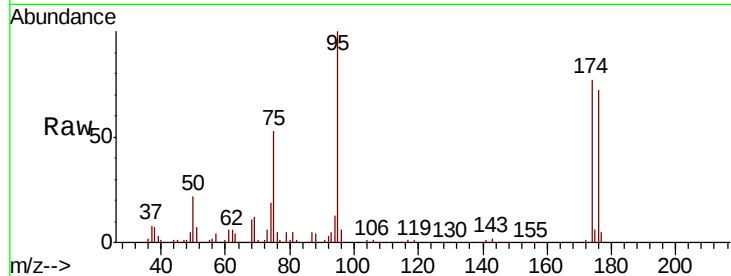




#76
 1,2,3-Trichloropropane
 Concen: 37.470 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052271.D
 Acq: 12 Nov 2018 19:11

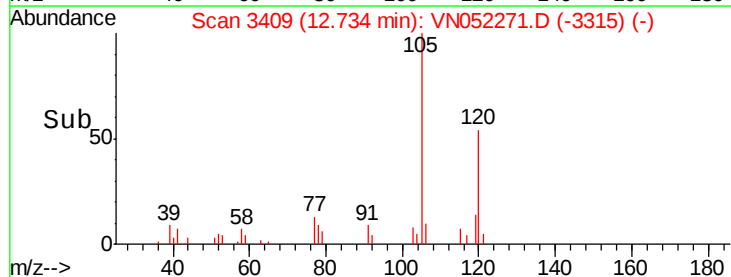
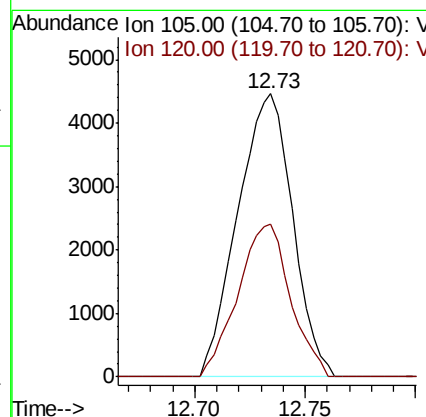
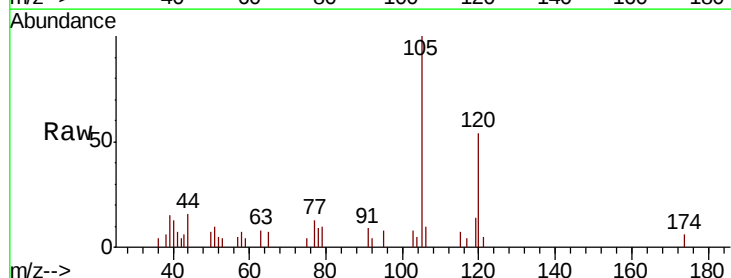
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#15

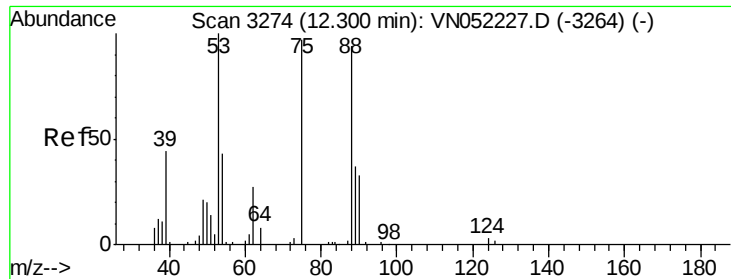
Tot Ion: 75 Resp: 106542
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.738 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN052271.D
 Acq: 12 Nov 2018 19:11

Tgt Ion: 105 Resp: 7711
 Ion Ratio Lower Upper
 105 100
 120 51.7 23.9 71.8





#81

trans-1,4-Dichloro-2-butene

Concen: 127.903 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052271.D

Acq: 12 Nov 2018 19:11

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#15

Tot Ion: 75 Resp: 106542

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

89 0.0 33.7 50.5#

