

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052257.D
 Acq On : 12 Nov 2018 12:58
 Operator : MD\SY
 Sample : PB114678ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#01

Quant Time: Nov 13 00:13:44 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	358933	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	590979	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	509791	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	176337	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	229958	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
35) Dibromofluoromethane	7.59	113	186029	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
50) Toluene-d8	10.09	98	743758	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	
62) 4-Bromofluorobenzene	12.40	95	214981	44.37	ug/l	0.00
Spiked Amount			Recovery	=	88.74%	

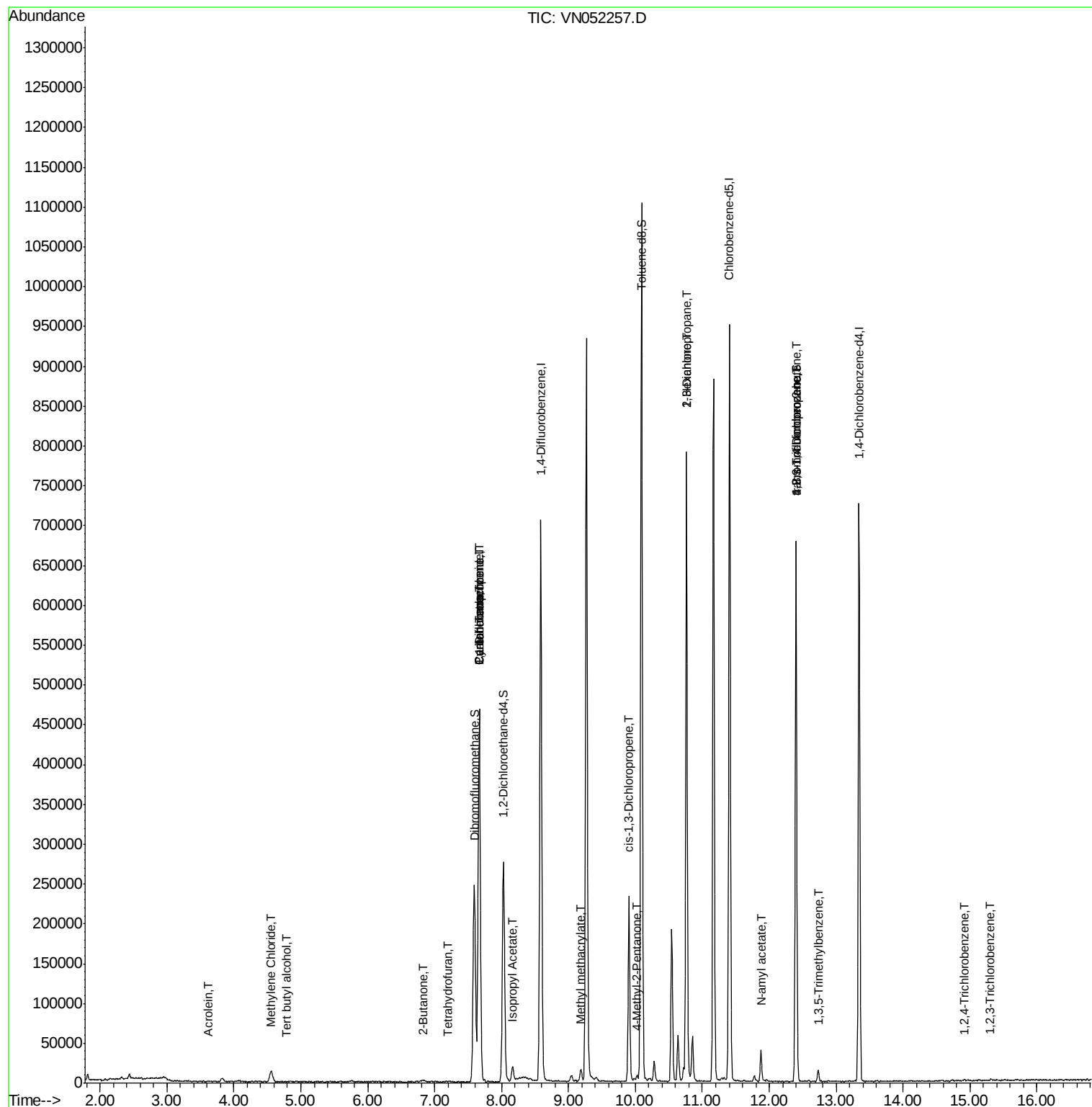
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	58	0.231	ug/l #	71
13) Acrolein	3.61	56	330	34.829	ug/l #	65
16) Acetone	3.81	43	2824	Below Cal		98
20) Methylene Chloride	4.55	84	8784	1.963	ug/l	89
25) 2-Butanone	6.83	43	557	0.266	ug/l #	52
29) Tetrahydrofuran	7.20	42	315	0.231	ug/l #	40
31) Cyclohexane	7.67	56	10840	0.747	ug/l #	26
36) 1,1-Dichloropropene	7.67	75	31397	5.264	ug/l #	51
38) Carbon Tetrachloride	7.66	117	36842	6.815	ug/l #	17
43) Isopropyl Acetate	8.17	43	23463	3.000	ug/l	99
48) Methyl methacrylate	9.18	41	6154	1.494	ug/l #	15
51) 4-Methyl-2-Pentanone	10.03	43	6083	1.409	ug/l #	40
54) cis-1,3-Dichloropropene	9.90	75	36617	5.536	ug/l #	69
57) 1,3-Dichloropropane	10.76	76	7712	1.157	ug/l #	43
59) 2-Hexanone	10.76	43	124896	41.196	ug/l #	55
74) N-amyl acetate	11.88	43	13953	2.666	ug/l #	57
76) 1,2,3-Trichloropropane	12.40	75	118822	38.086	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7055	0.615	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.40	75	118822	130.003	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.91	180	481	0.212	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.31	180	618	0.288	ug/l	95

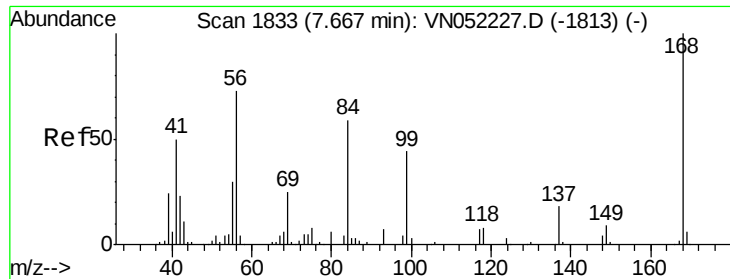
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 12 00:34:27 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052257.D

Acq: 12 Nov 2018 12:58

Instrument :

MSVOA_N

ClientSampleId :

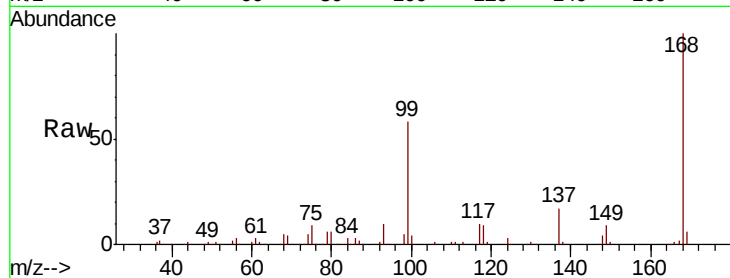
PB114678ZHE#01

Tot Ion:168 Resp: 358933

Ion Ratio Lower Upper

168 100

99 58.2 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

150000

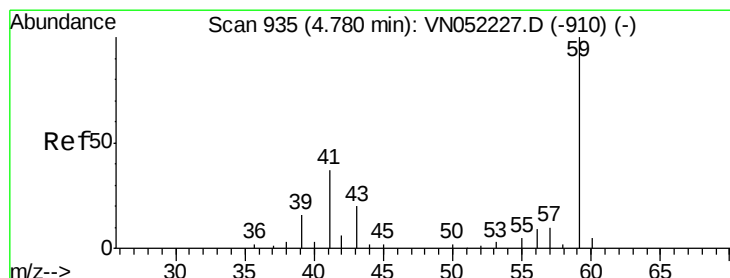
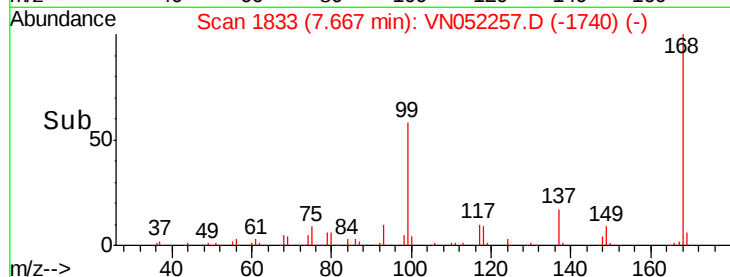
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 0.231 ug/l

RT: 4.78 min Scan# 935

Delta R.T. -0.00 min

Lab File: VN052257.D

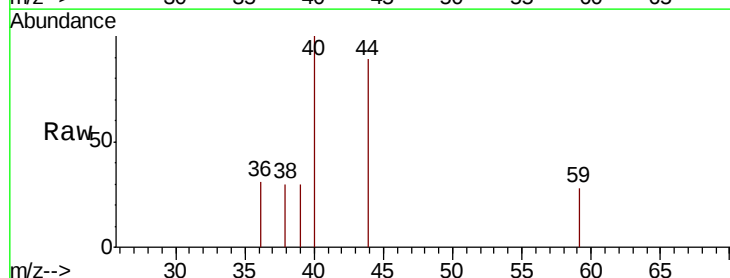
Acq: 12 Nov 2018 12:58

Tgt Ion: 59 Resp: 58

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.78

150

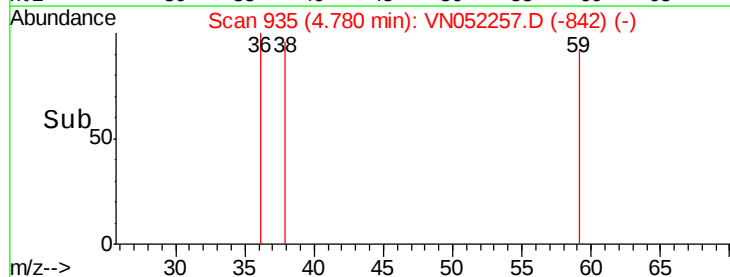
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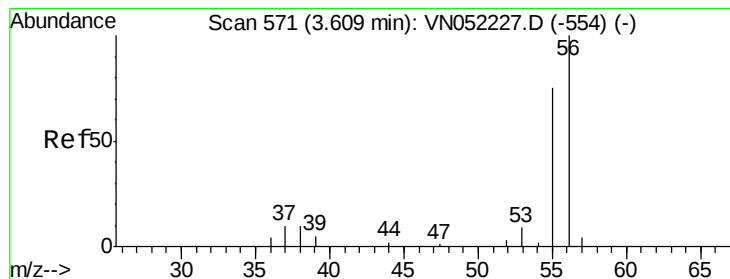
50

0

Time-->

4.77 4.78 4.79





#13

Acrolein

Concen: 34.829 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052257.D

Acq: 12 Nov 2018 12:58

Instrument :

MSVOA_N

ClientSampleId :

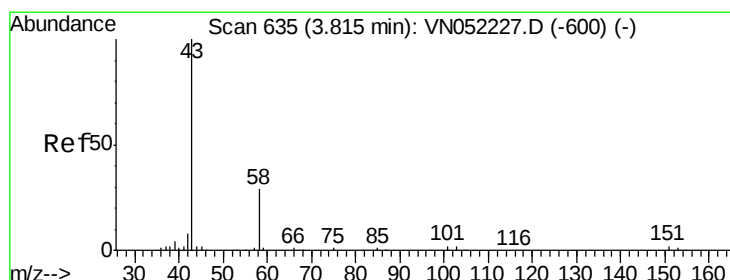
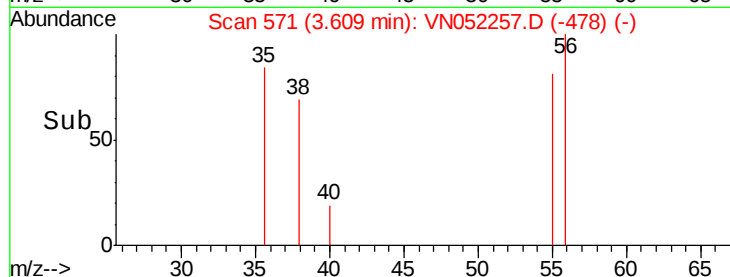
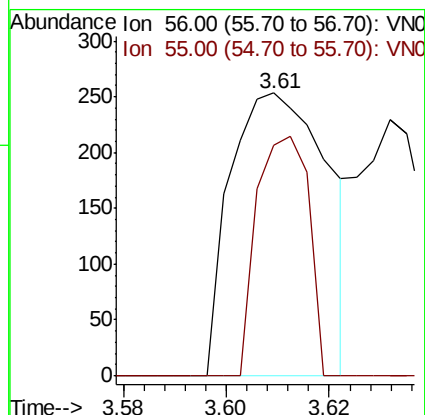
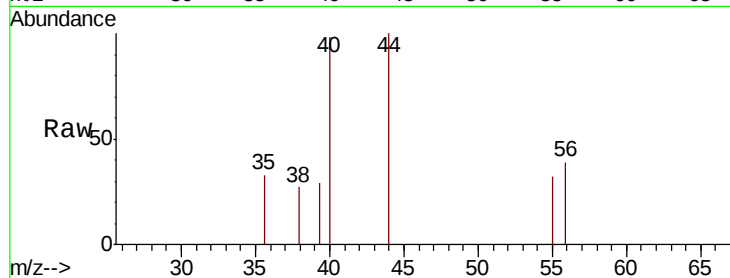
PB114678ZHE#01

Tot Ion: 56 Resp: 330

Ion Ratio Lower Upper

56 100

55 44.8 59.9 89.9#



#16

Acetone

Concen: Below Cal

RT: 3.81 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052257.D

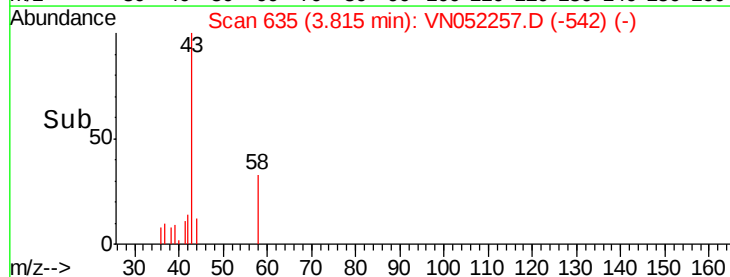
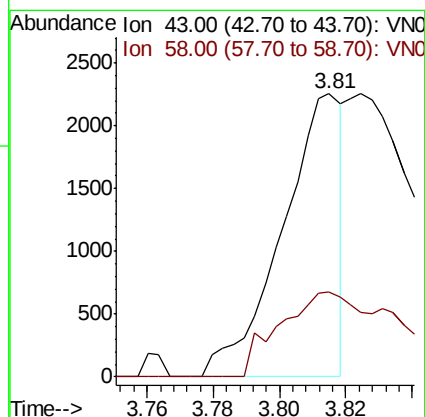
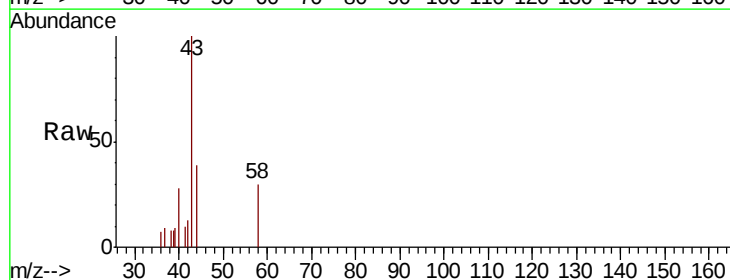
Acq: 12 Nov 2018 12:58

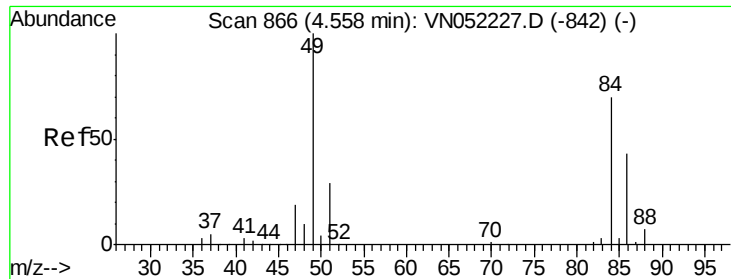
Tgt Ion: 43 Resp: 2824

Ion Ratio Lower Upper

43 100

58 30.0 23.0 34.6

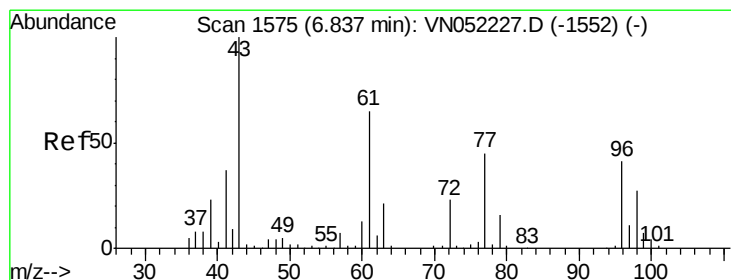
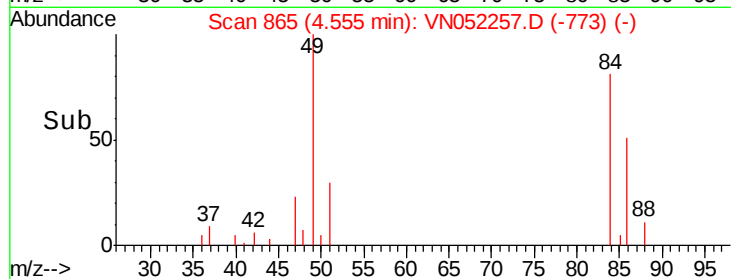
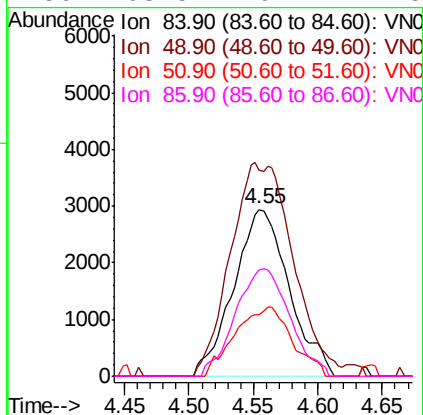
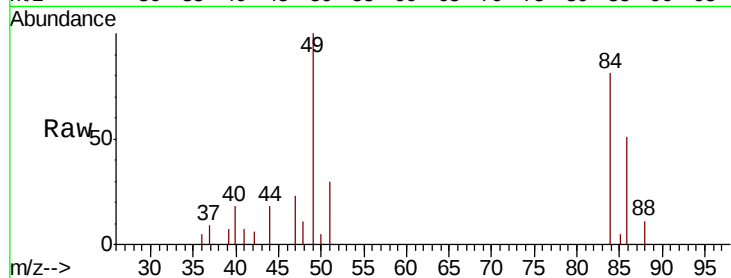




#20
Methvlene Chloride
Concen: 1.963 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052257.D
Acq: 12 Nov 2018 12:58

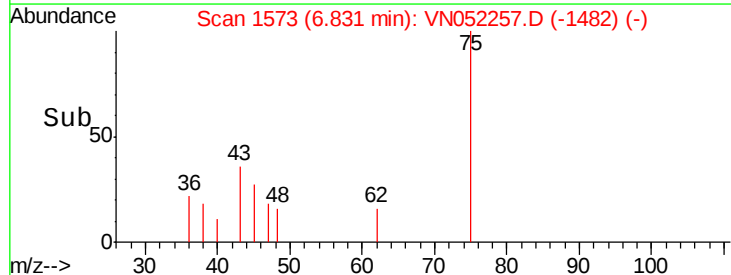
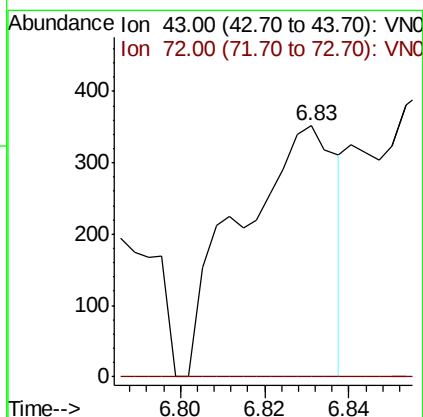
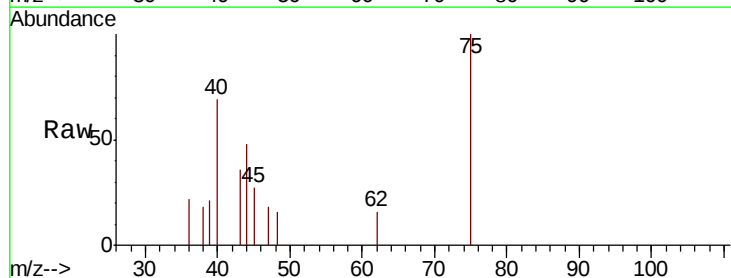
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#01

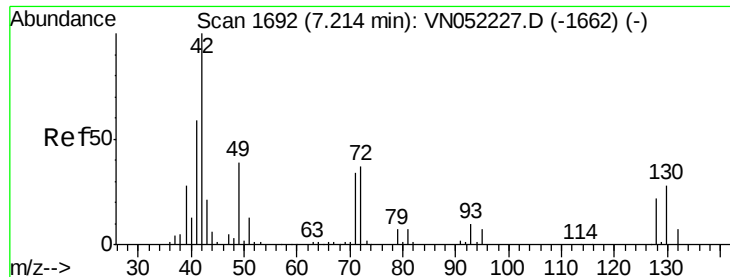
Tot Ion: 84 Resp: 8784
Ion Ratio Lower Upper
84 100
49 124.1 114.8 172.2
51 36.9 33.1 49.7
86 63.5 49.7 74.5



#25
2-Butanone
Concen: 0.266 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VN052257.D
Acq: 12 Nov 2018 12:58

Tgt Ion: 43 Resp: 557
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#





#29

Tetrahydrofuran

Concen: 0.231 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. -0.01 min

Lab File: VN052257.D

Acq: 12 Nov 2018 12:58

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#01

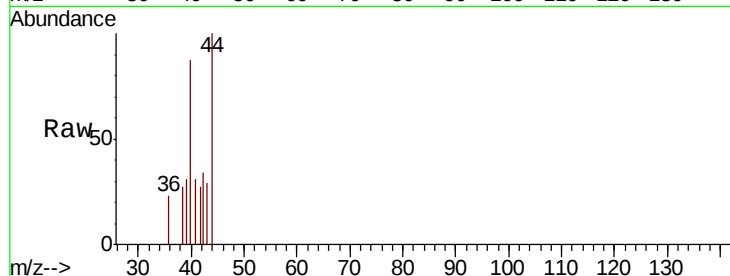
Tot Ion: 42 Resp: 315

Ion Ratio Lower Upper

42 100

72 0.0 28.6 43.0#

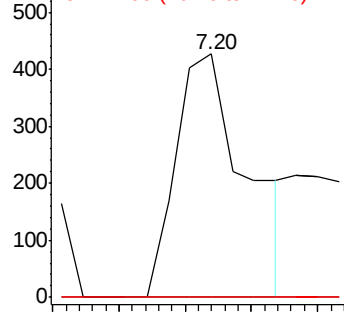
71 0.0 27.1 40.7#



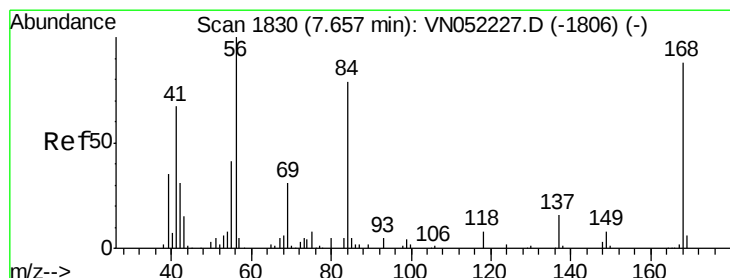
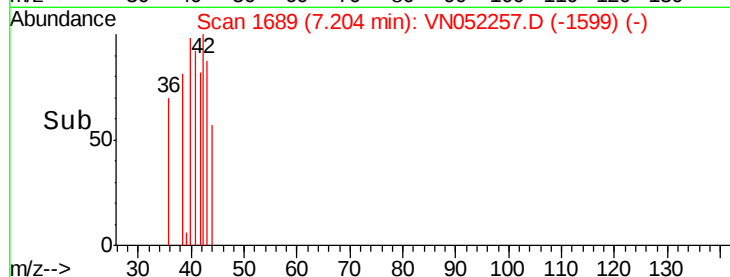
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time--> 7.18 7.19 7.20 7.21 7.22



#31

Cyclohexane

Concen: 0.747 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052257.D

Acq: 12 Nov 2018 12:58

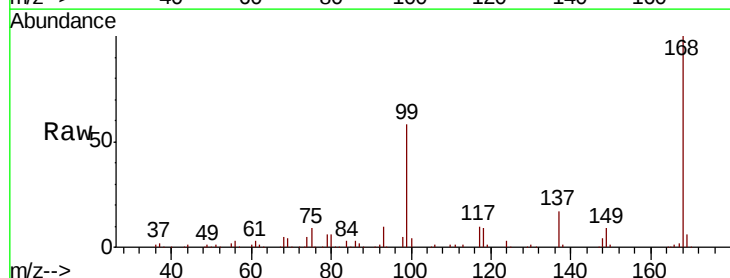
Tgt Ion: 56 Resp: 10840

Ion Ratio Lower Upper

56 100

69 125.5 24.8 37.2#

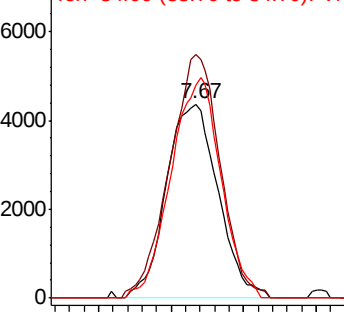
84 109.5 63.1 94.7#



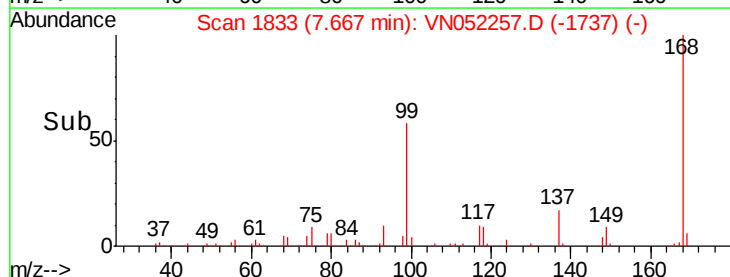
Abundance Ion 56.00 (55.70 to 56.70): VN0

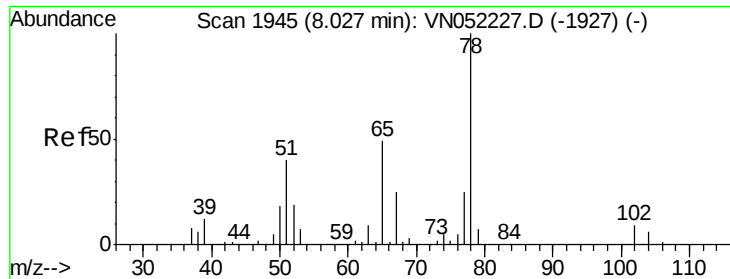
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time--> 7.60 7.65 7.70 7.75

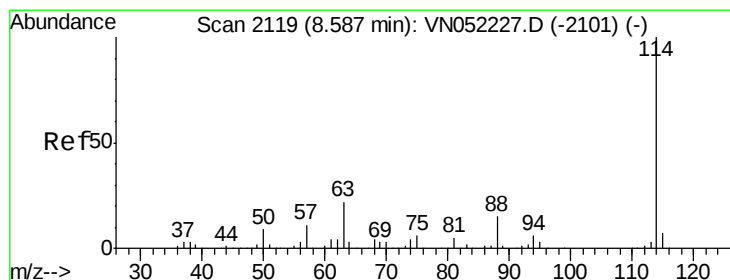
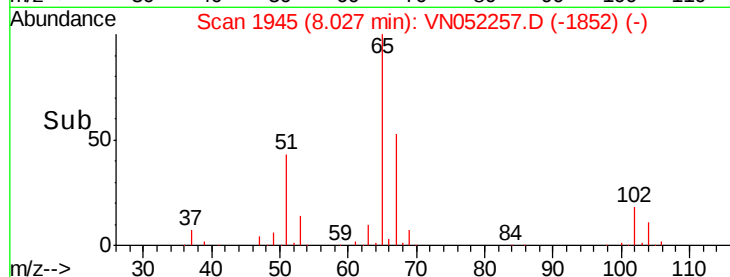
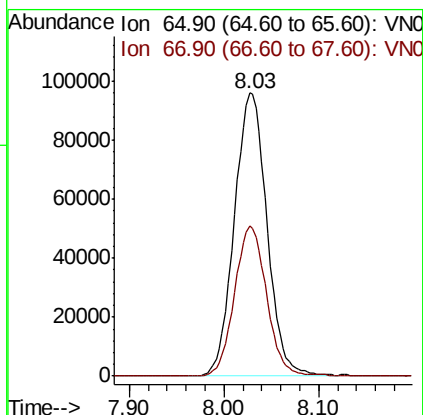
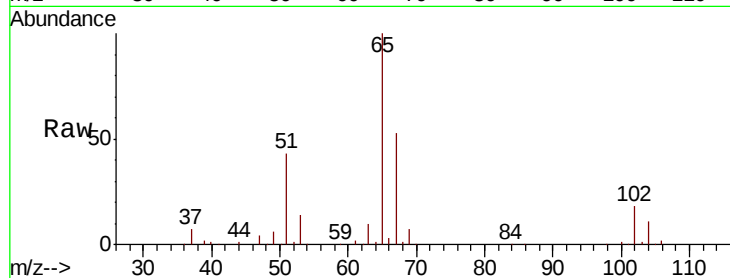




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052257.D
 Acq: 12 Nov 2018 12:58

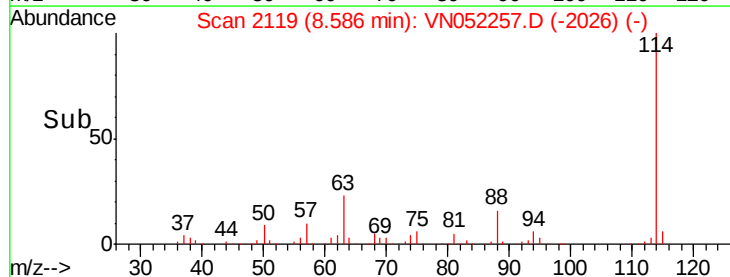
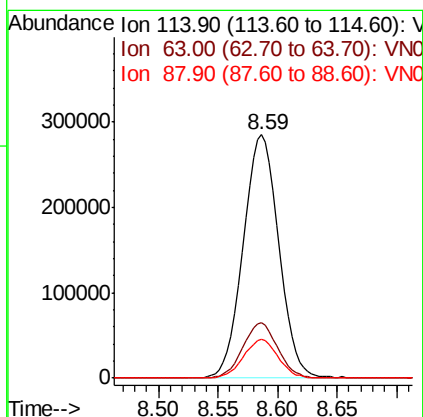
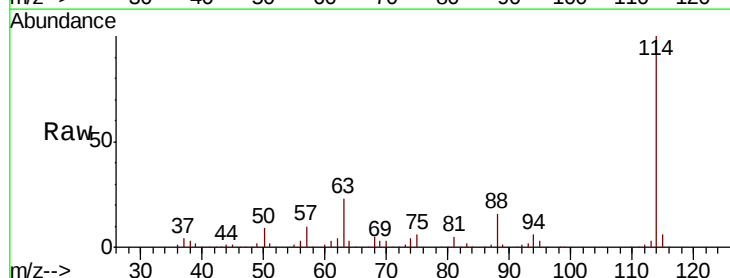
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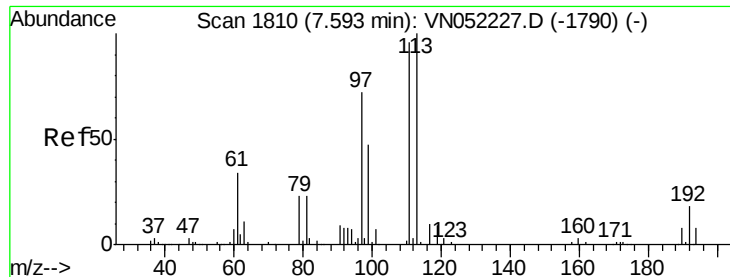
Tot Ion: 65 Resp: 229958
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052257.D
 Acq: 12 Nov 2018 12:58

Tgt Ion: 114 Resp: 590979
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 43.4
 88 15.9 0.0 30.2

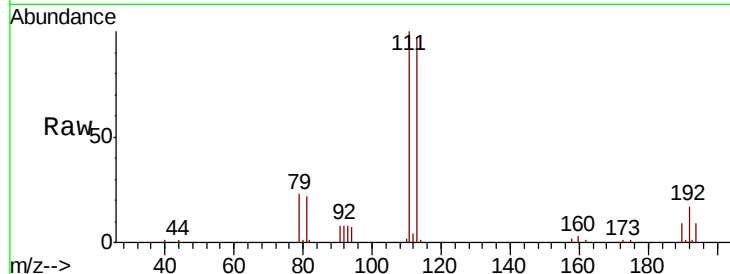




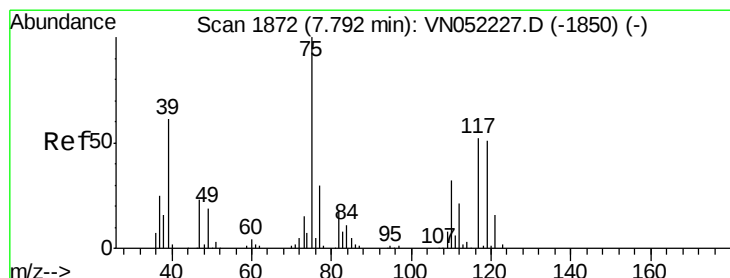
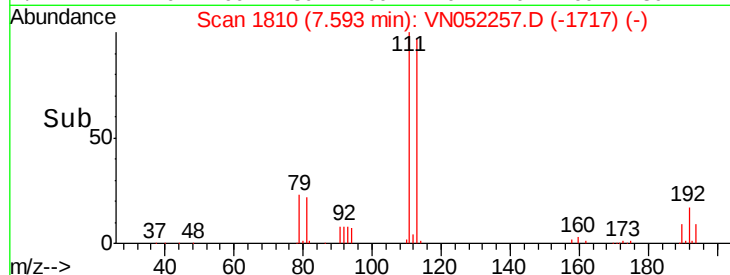
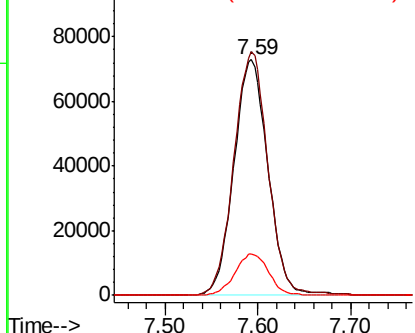
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052257.D
 Acq: 12 Nov 2018 12:58

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#01

Tot Ion:113 Resp: 186029
 Ion Ratio Lower Upper
 113 100
 111 103.7 80.2 120.4
 192 17.4 14.1 21.1

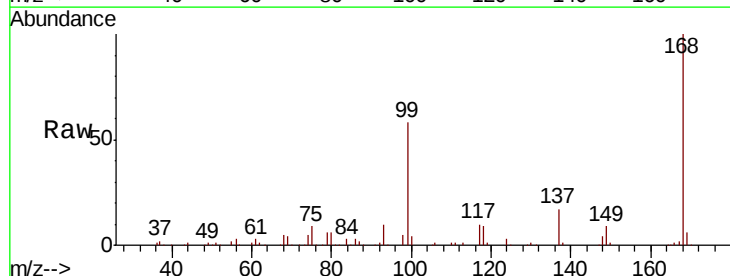


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

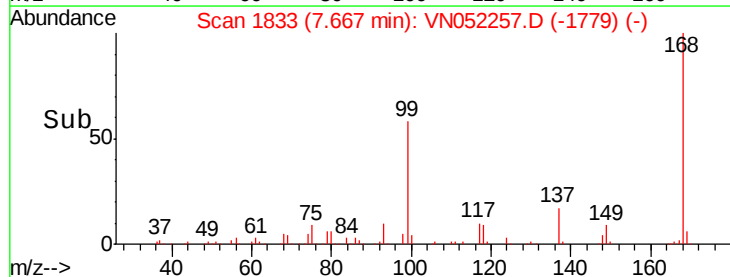
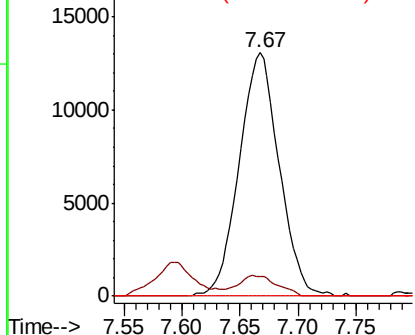


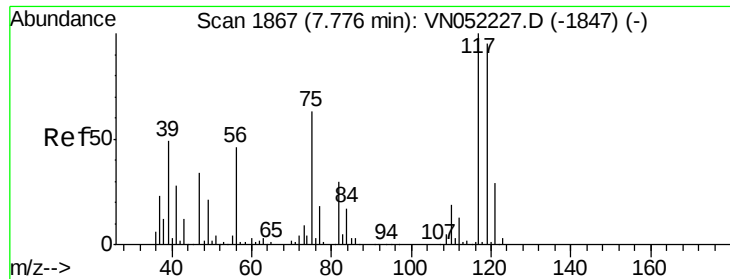
#36
 1,1-Dichloropropene
 Concen: 5.264 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052257.D
 Acq: 12 Nov 2018 12:58

Tgt Ion: 75 Resp: 31397
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.4 49.4#
 77 0.0 23.9 35.9#



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





#38

Carbon Tetrachloride

Concen: 6.815 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN052257.D

Acq: 12 Nov 2018 12:58

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#01

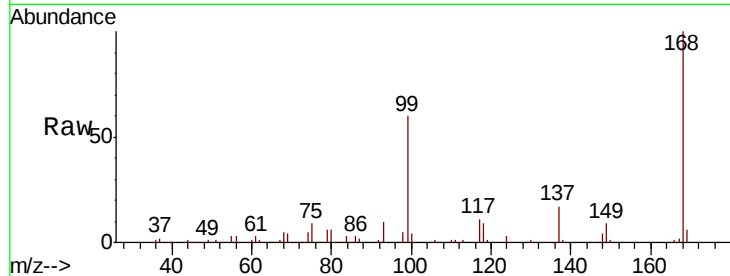
Tot Ion:117 Resp: 36842

Ion Ratio Lower Upper

117 100

119 5.8 75.8 113.8#

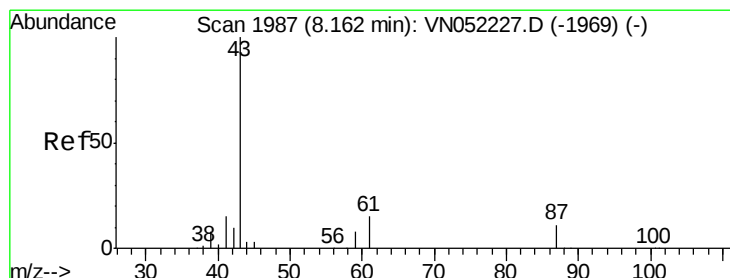
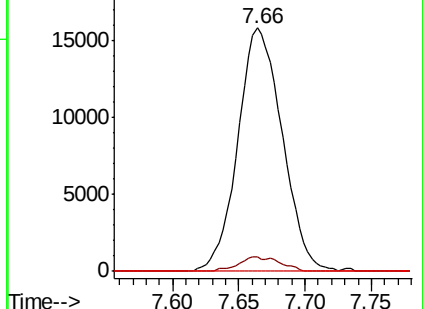
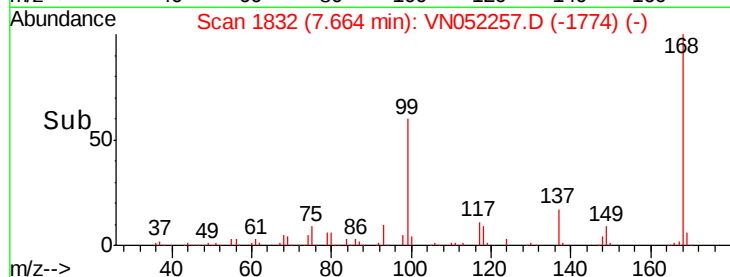
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 3.000 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052257.D

Acq: 12 Nov 2018 12:58

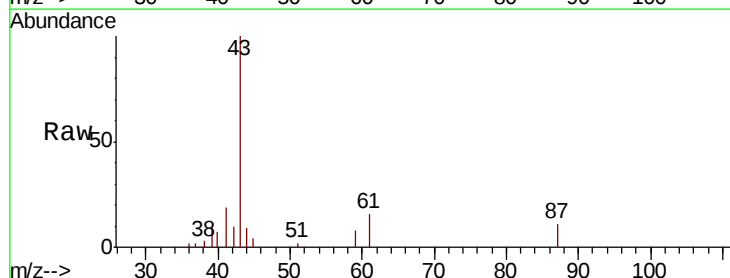
Tgt Ion: 43 Resp: 23463

Ion Ratio Lower Upper

43 100

61 18.5 14.2 21.4

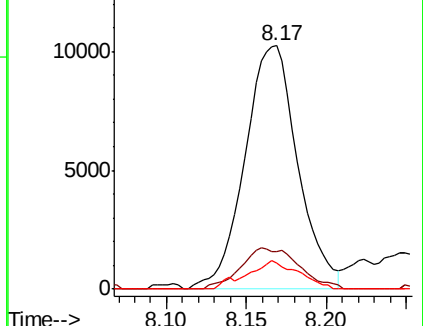
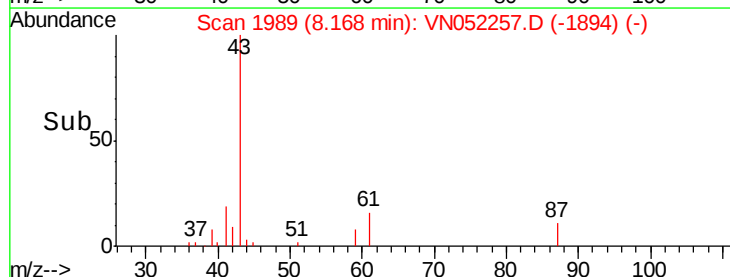
87 10.1 8.4 12.6

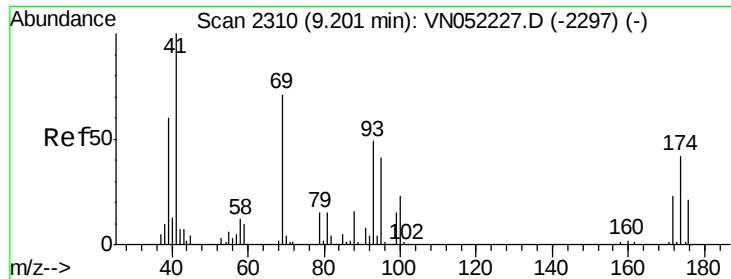


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

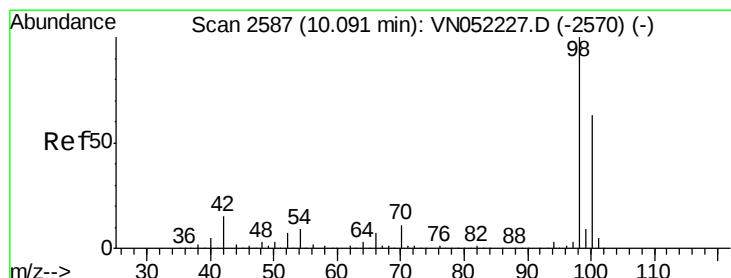
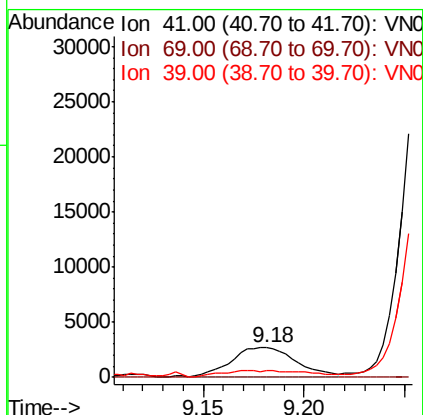
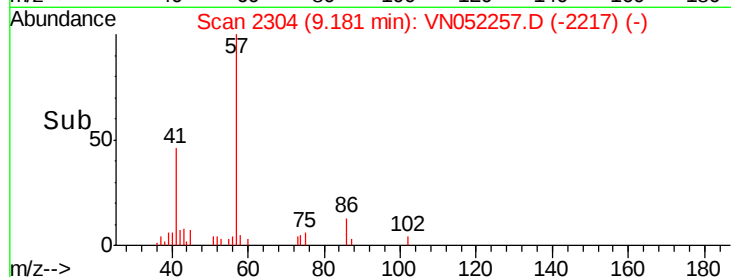
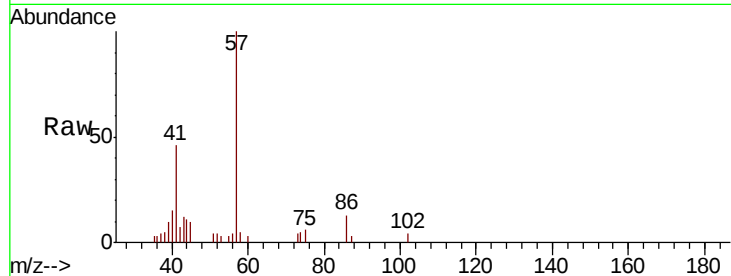




#48
Methvl methacrylate
Concen: 1.494 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052257.D
Acq: 12 Nov 2018 12:58

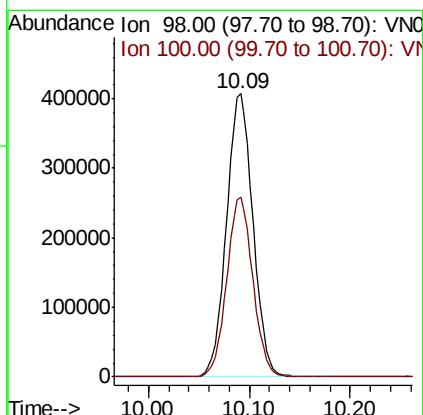
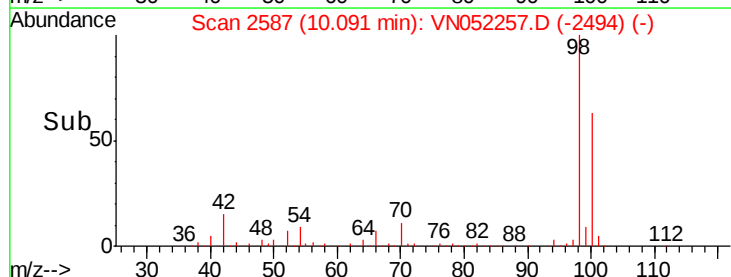
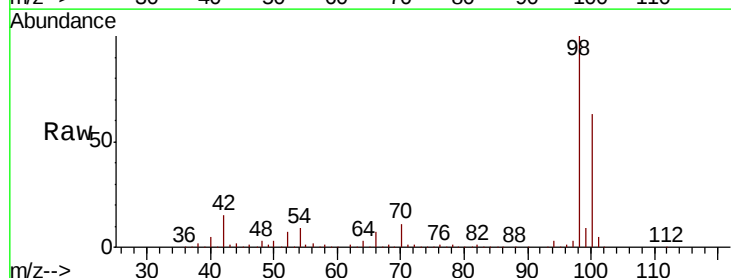
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#01

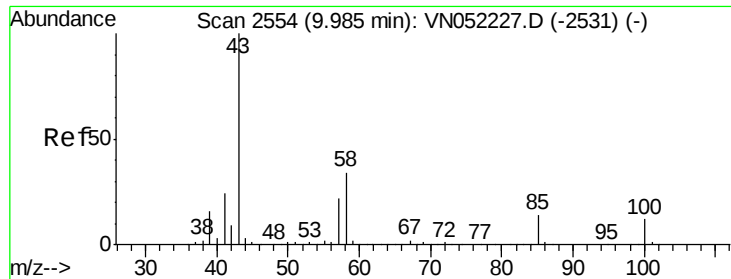
Tot Ion: 41 Resp: 6154
Ion Ratio Lower Upper
41 100
69 0.0 58.8 88.2#
39 0.0 50.7 76.1#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052257.D
Acq: 12 Nov 2018 12:58

Tgt Ion: 98 Resp: 743758
Ion Ratio Lower Upper
98 100
100 62.8 50.2 75.2





#51

4-Methyl-2-Pentanone

Concen: 1.409 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN052257.D

Acq: 12 Nov 2018 12:58

Instrument :

MSVOA_N

ClientSampleId :

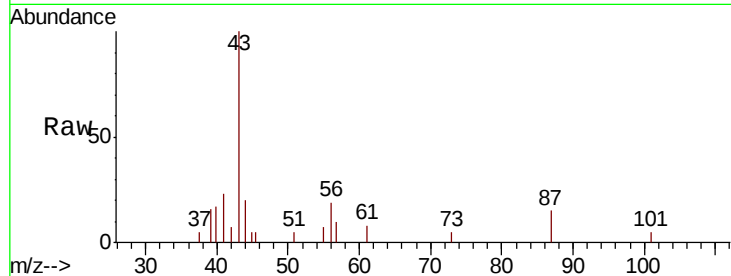
PB114678ZHE#01

Tot Ion: 43 Resp: 6083

Ion Ratio Lower Upper

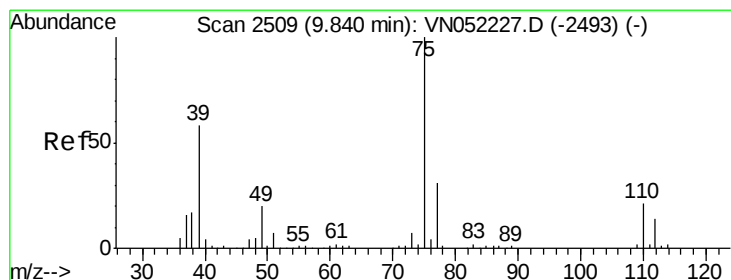
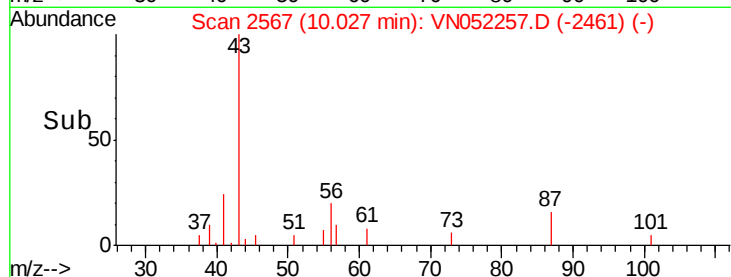
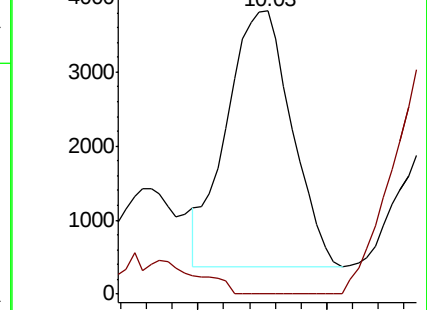
43 100

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) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.536 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN052257.D

Acq: 12 Nov 2018 12:58

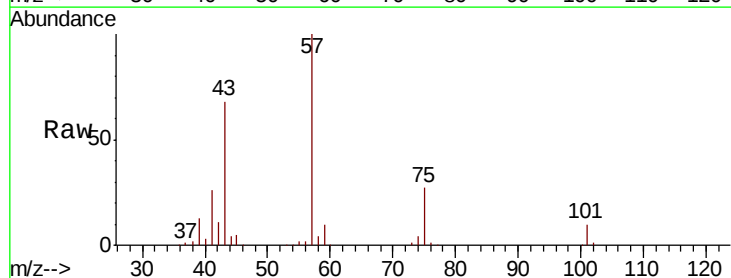
Tgt Ion: 75 Resp: 36617

Ion Ratio Lower Upper

75 100

77 0.8 25.2 37.8#

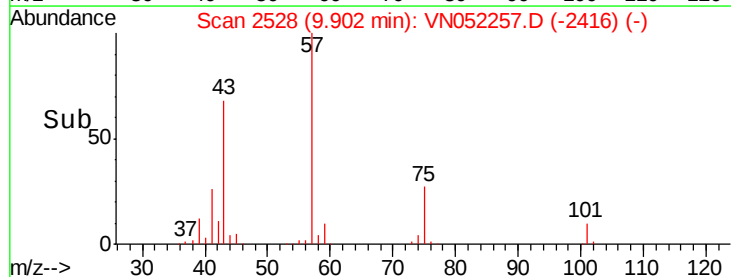
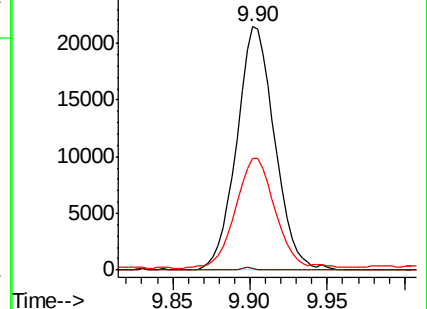
39 44.5 46.6 70.0#

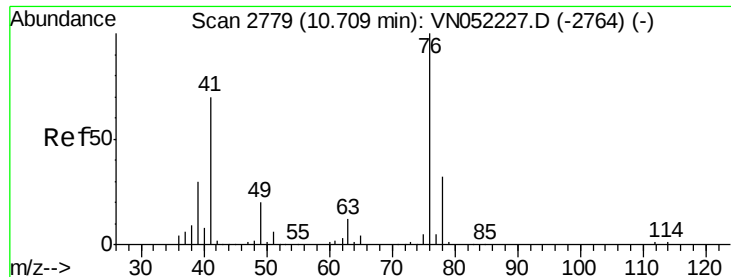


Abundance Ion 74.90 (74.60 to 75.60): VN052227.D (-2493) (-)

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

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

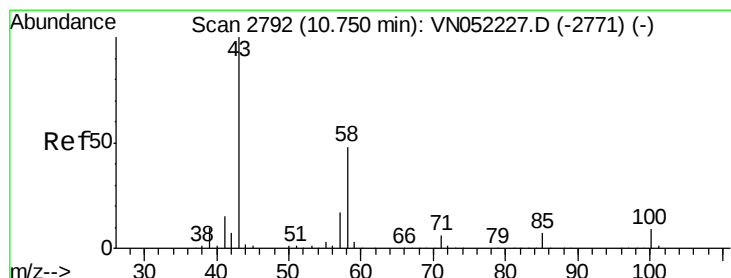
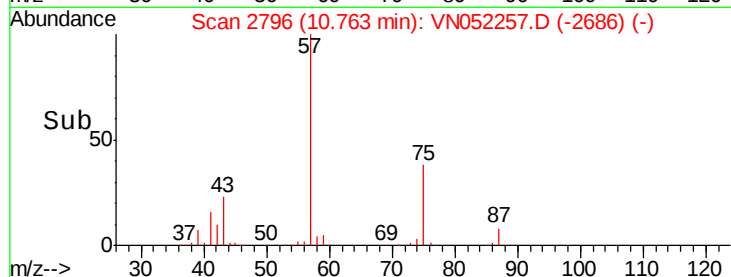
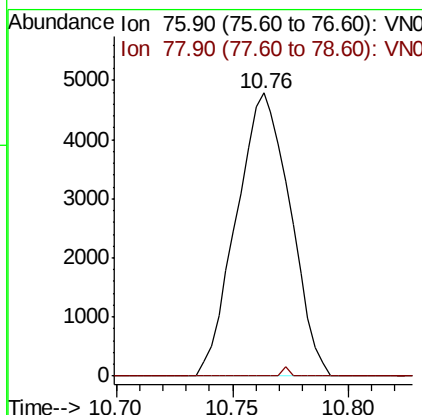
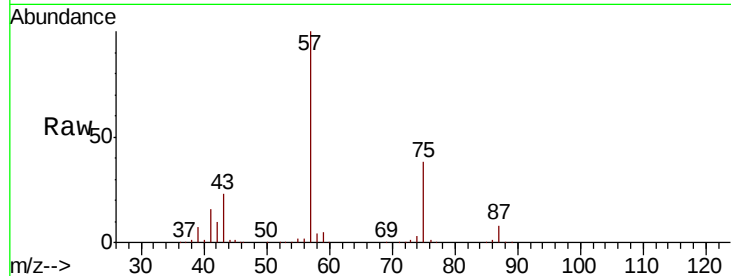




#57
 1,3-Dichloropropane
 Concen: 1.157 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN052257.D
 Acq: 12 Nov 2018 12:58

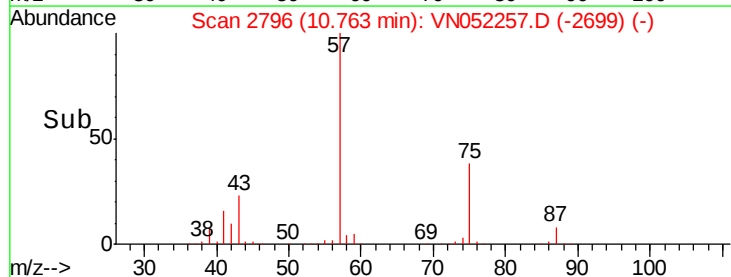
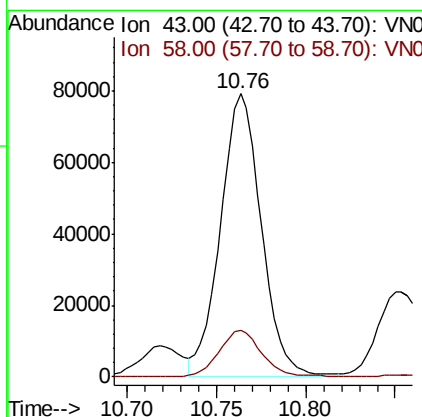
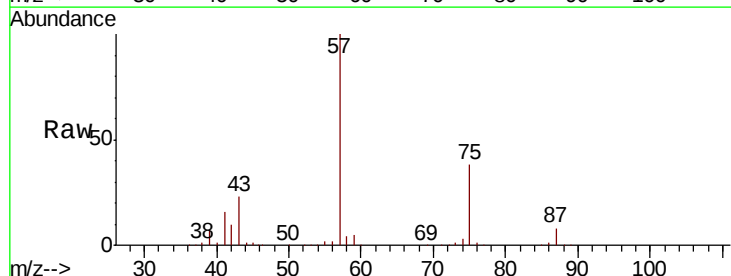
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#01

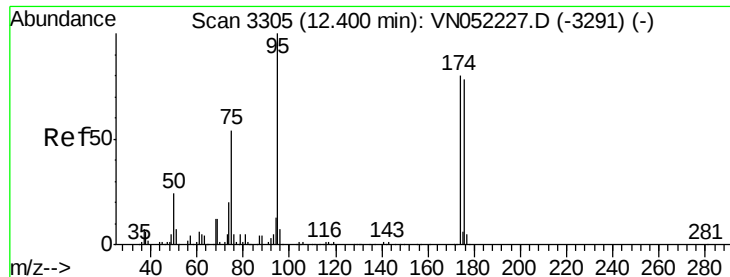
Tot Ion: 76 Resp: 7712
 Ion Ratio Lower Upper
 76 100
 78 0.4 25.7 38.5#



#59
 2-Hexanone
 Concen: 41.196 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052257.D
 Acq: 12 Nov 2018 12:58

Tgt Ion: 43 Resp: 124896
 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: VN052257.D

Acq: 12 Nov 2018 12:58

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#01

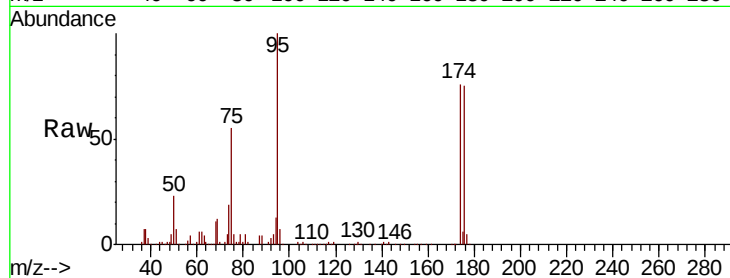
Tot Ion: 95 Resp: 214981

Ion Ratio Lower Upper

95 100

174 77.8 0.0 159.4

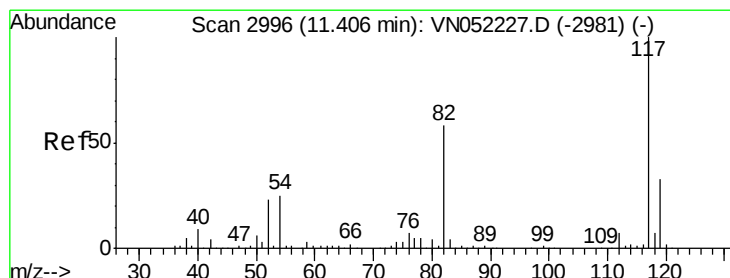
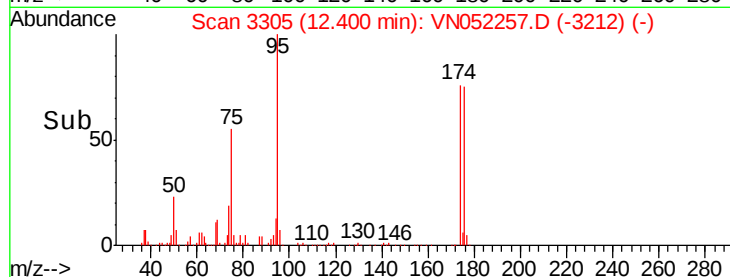
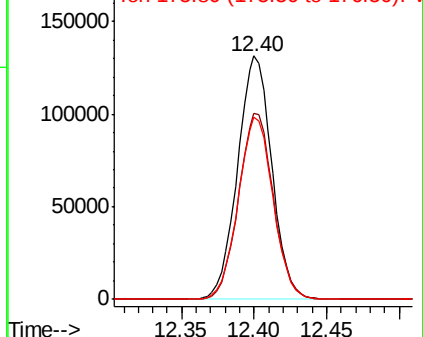
176 76.3 0.0 157.8



Abundance Ion 94.90 (94.60 to 95.60): VN052227.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052227.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052227.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052257.D

Acq: 12 Nov 2018 12:58

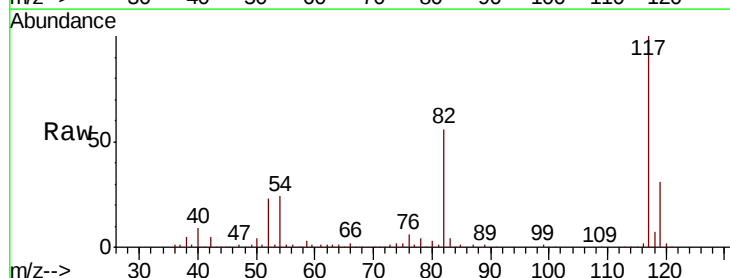
Tgt Ion: 117 Resp: 509791

Ion Ratio Lower Upper

117 100

82 56.4 46.2 69.2

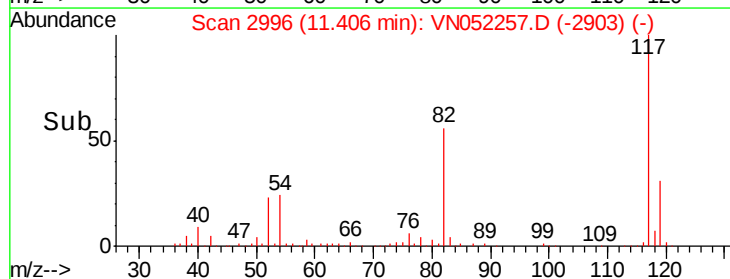
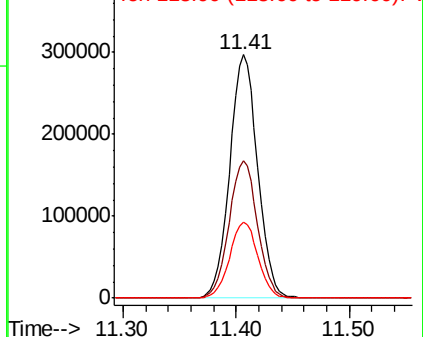
119 31.3 26.2 39.4

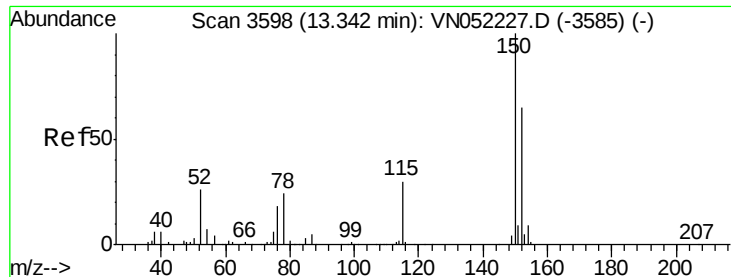


Abundance Ion 116.90 (116.60 to 117.60): VN052227.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052227.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052227.D (-2981) (-)



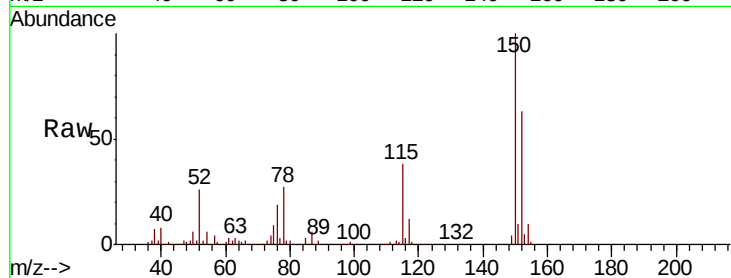


#72

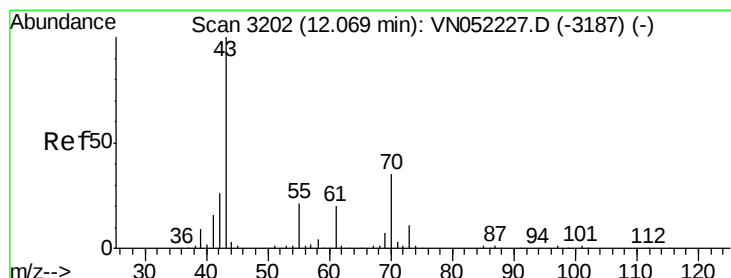
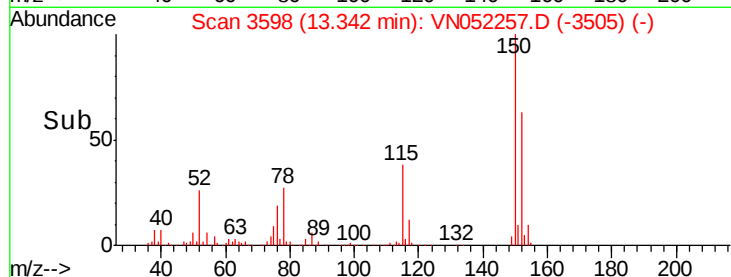
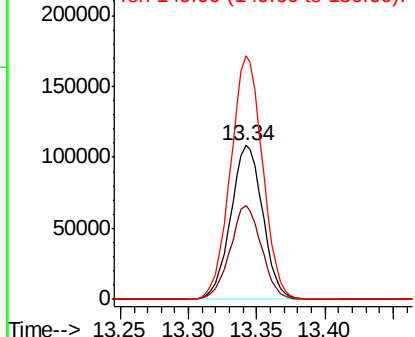
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN052257.D
Acq: 12 Nov 2018 12:58

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#01

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.8	29.8	89.5
150	158.1	0.0	350.2



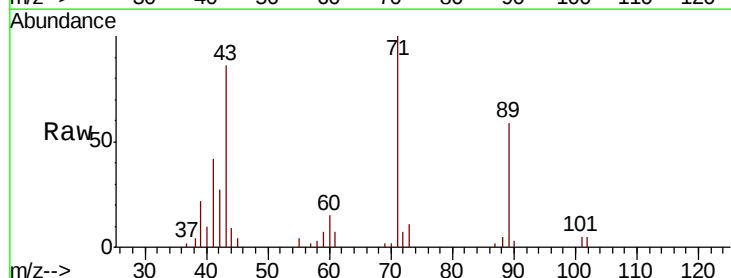
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



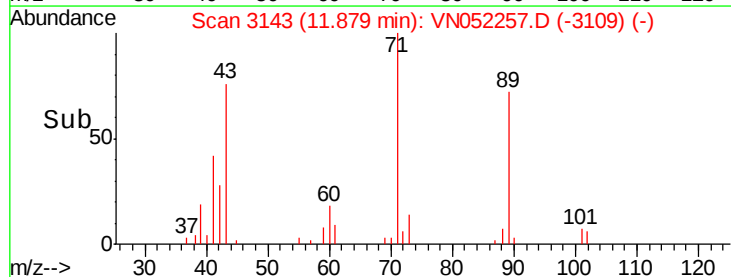
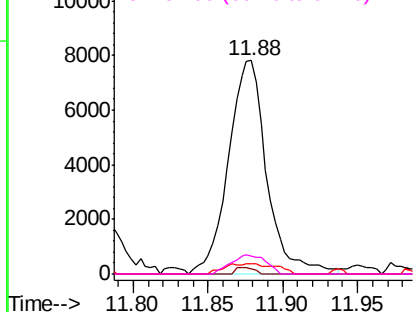
#74

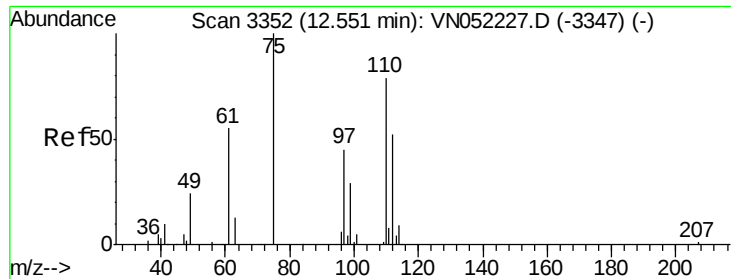
N-ethyl acetate
Concen: 2.666 ug/l
RT: 11.88 min Scan# 3143
Delta R.T. -0.19 min
Lab File: VN052257.D
Acq: 12 Nov 2018 12:58

Tgt Ion	Ratio	Lower	Upper
43	100		
70	1.5	28.2	42.2#
55	4.8	17.4	26.2#
61	8.1	16.3	24.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO

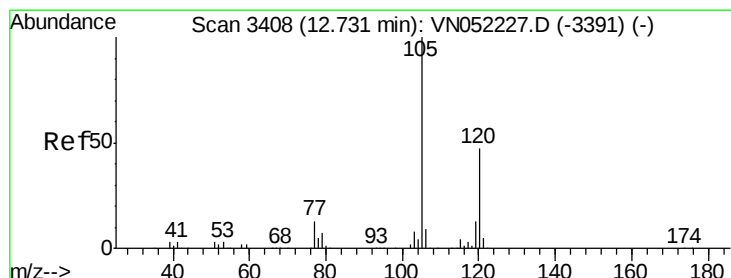
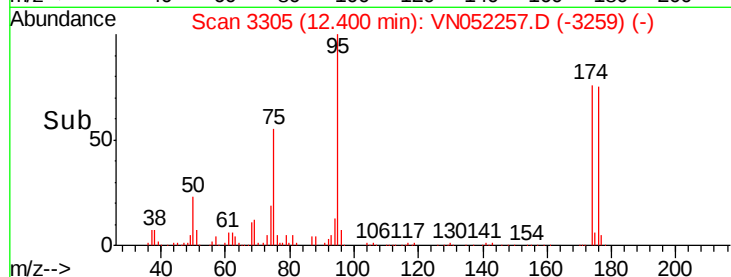
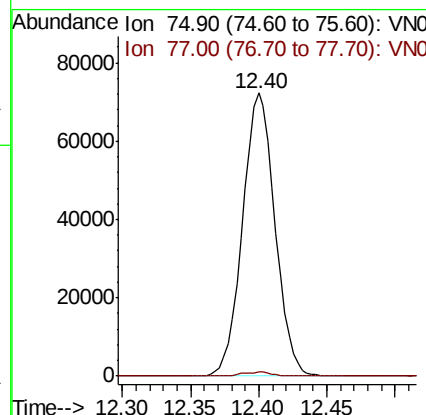
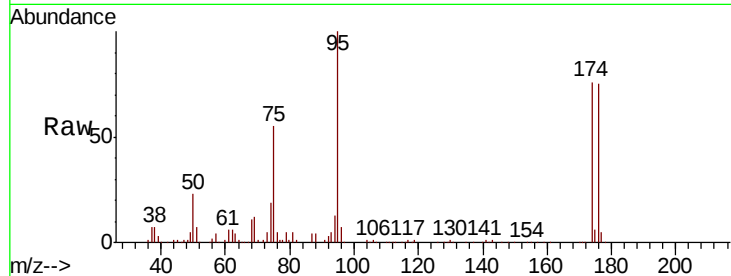




#76
 1,2,3-Trichloropropane
 Concen: 38.086 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052257.D
 Acq: 12 Nov 2018 12:58

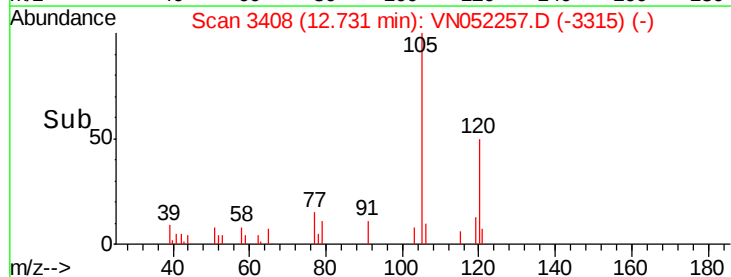
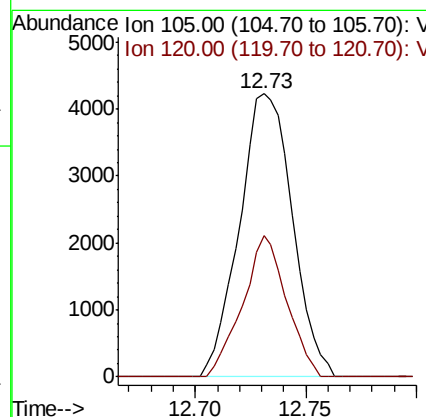
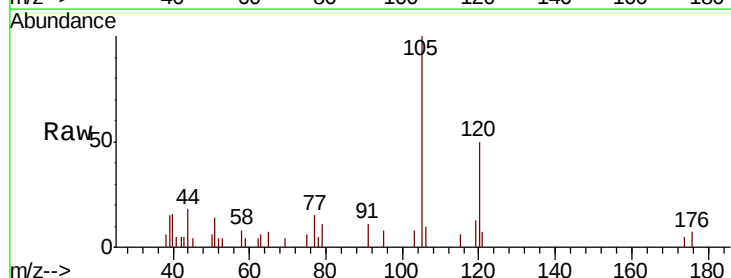
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#01

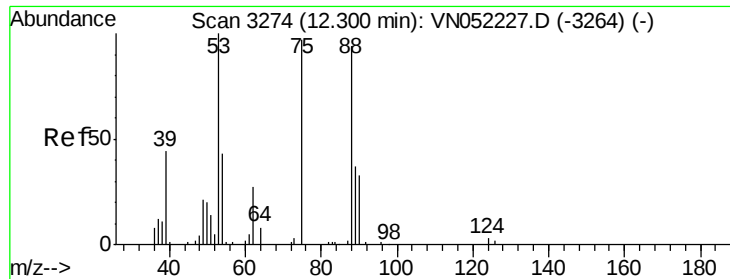
Tot Ion: 75 Resp: 118822
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.615 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN052257.D
 Acq: 12 Nov 2018 12:58

Tgt Ion: 105 Resp: 7055
 Ion Ratio Lower Upper
 105 100
 120 41.4 23.9 71.8





#81

trans-1,4-Dichloro-2-butene

Concen: 130.003 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052257.D

Acq: 12 Nov 2018 12:58

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#01

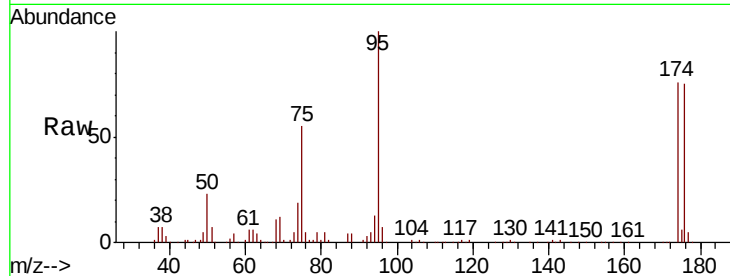
Tot Ion: 75 Resp: 118822

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

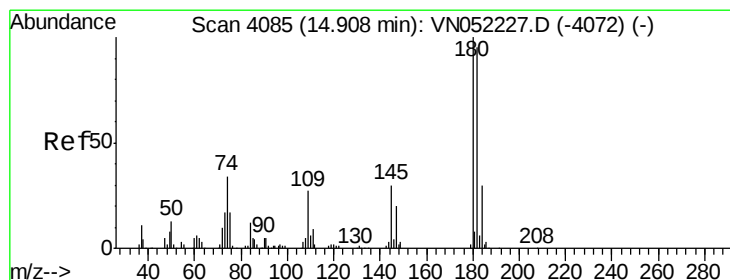
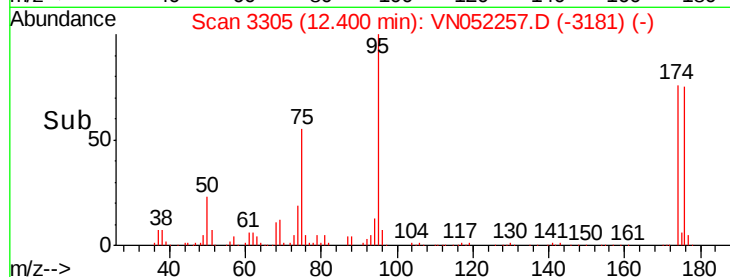
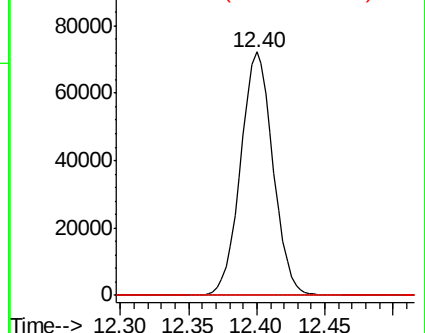
89 0.0 33.7 50.5#



Abundance Ion 74.90 (74.60 to 75.60): VN052227.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052227.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052227.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.212 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN052257.D

Acq: 12 Nov 2018 12:58

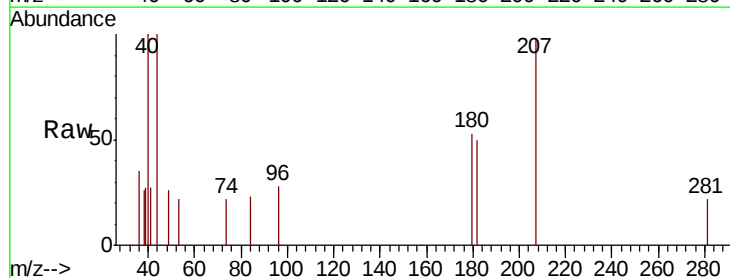
Tgt Ion: 180 Resp: 481

Ion Ratio Lower Upper

180 100

182 86.3 47.3 142.0

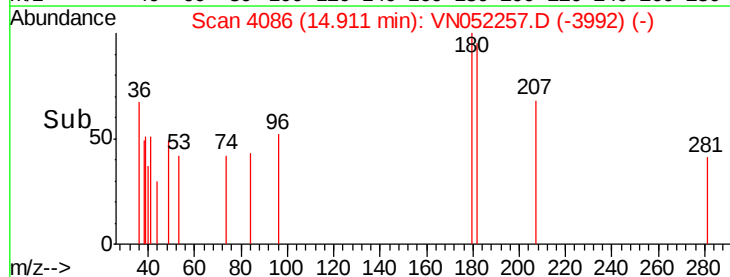
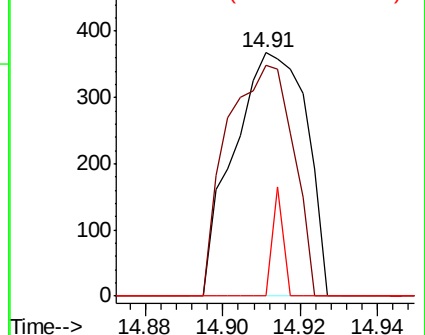
145 6.7 15.6 46.8#

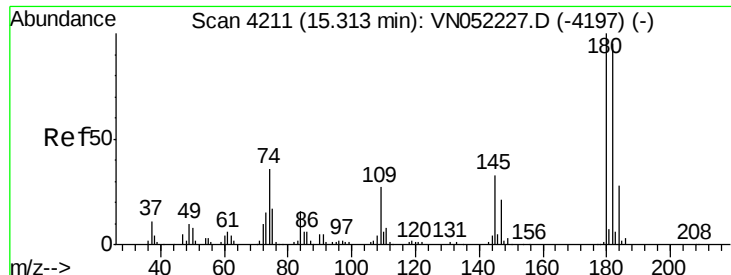


Abundance Ion 179.80 (179.50 to 180.50): VN052227.D (-4072) (-)

Ion 181.80 (181.50 to 182.50): VN052227.D (-4072) (-)

Ion 144.80 (144.50 to 145.50): VN052227.D (-4072) (-)





#96
 1,2,3-Trichlorobenzene
 Concen: 0.288 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN052257.D
 Acq: 12 Nov 2018 12:58

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#01

Tot Ion	Ion	Ratio	Lower	Upper
618	180	100		
	182	92.6	47.7	143.1
	145	27.3	16.8	50.3

