

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN021819\
 Data File : VN053832.D
 Acq On : 18 Feb 2019 10:17
 Operator : JC/SP
 Sample : PB117124ZHE#14
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117124ZHE#14

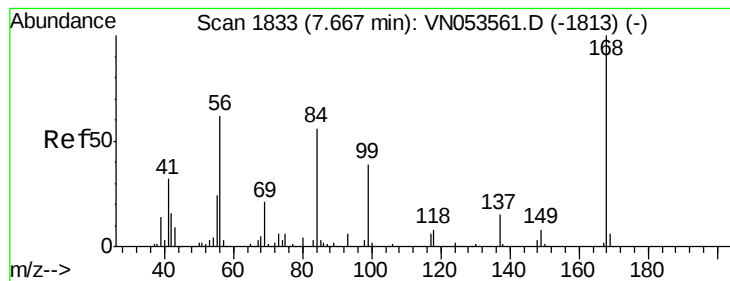
Quant Time: Feb 19 02:58:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	654128	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1112799	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1041734	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	398082	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	348222	53.07	ug/l	0.00
Spiked Amount			Recovery	=	106.14%	
35) Dibromofluoromethane	7.59	113	347334	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
50) Toluene-d8	10.09	98	1357410	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
62) 4-Bromofluorobenzene	12.40	95	443895	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	241	0.621	ug/l #	72
16) Acetone	3.82	43	14711	8.740	ug/l	96
18) Methyl Acetate	4.33	43	3804	0.763	ug/l #	62
20) Methylene Chloride	4.55	84	6805	0.964	ug/l #	83
25) 2-Butanone	6.84	43	3536	1.473	ug/l #	84
29) Tetrahydrofuran	7.21	42	478	0.310	ug/l #	69
31) Cyclohexane	7.66	56	9466	0.686	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	37398	3.728	ug/l #	44
37) Ethyl Acetate	6.84	43	3536	0.631	ug/l #	76
38) Carbon Tetrachloride	7.66	117	53174	5.262	ug/l #	16
43) Isopropyl Acetate	8.16	43	24563	2.270	ug/l #	85
48) Methyl methacrylate	9.18	41	8513	1.648	ug/l #	12
49) 1,4-Dioxane	9.27	88	105	40.446	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	7290	1.371	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	58611	4.981	ug/l #	64
57) 1,3-Dichloropropane	10.76	76	11258	0.996	ug/l #	43
59) 2-Hexanone	10.76	43	144476	40.028	ug/l #	51
71) Bromoform	12.40	173	3167	0.598	ug/l #	1
74) N-amyl acetate	11.88	43	14560	2.164	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	204098	39.917	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	204098	112.242	ug/l #	15
95) Naphthalene	15.13	128	789	1.780	ug/l #	69

(#) = 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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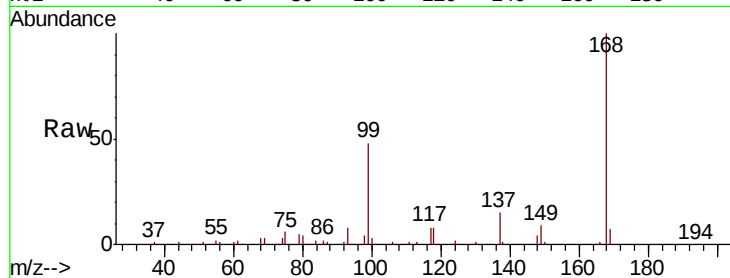
PB117124ZHE#14

Tgt Ion:168 Resp: 654128

Ion Ratio Lower Upper

168 100

99 48.4 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

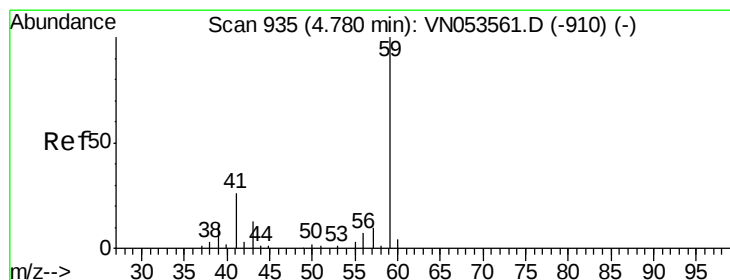
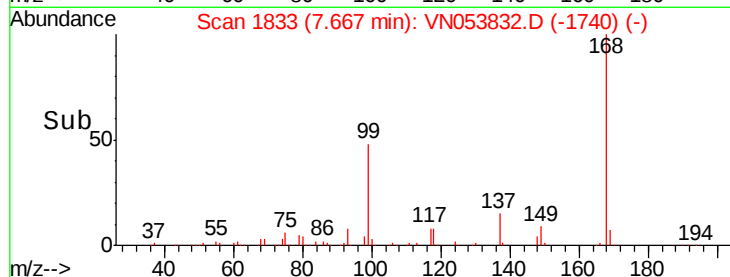
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 0.621 ug/l

RT: 4.76 min Scan# 929

Delta R.T. -0.02 min

Lab File: VN053832.D

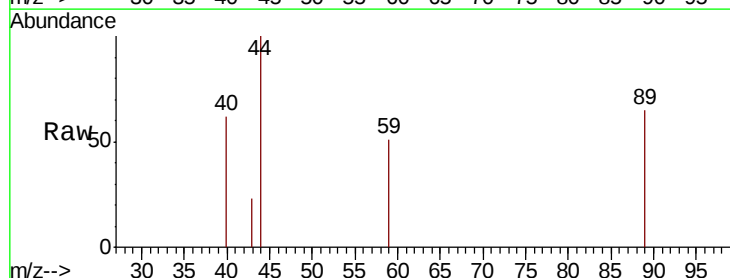
Acq: 18 Feb 2019 10:17

Tgt Ion: 59 Resp: 241

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.76

400

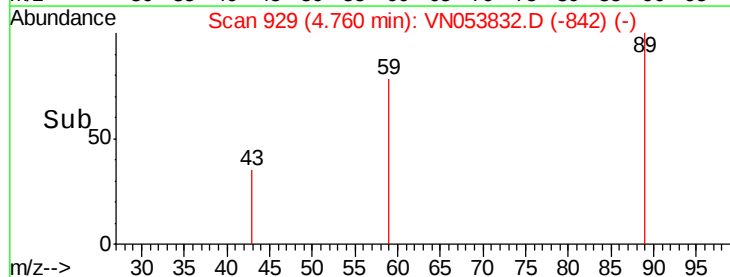
300

200

100

0

Time--> 4.74 4.76 4.78





#16

Acetone

Concen: 8.740 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

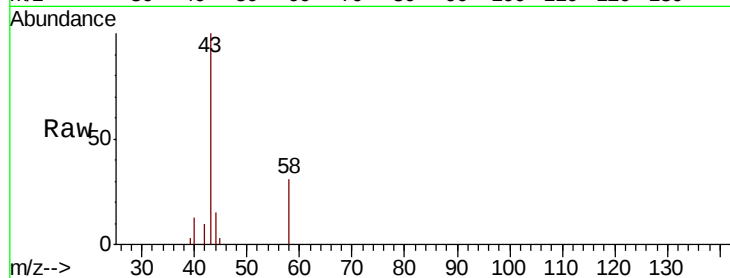
PB117124ZHE#14

Tgt Ion: 43 Resp: 14711

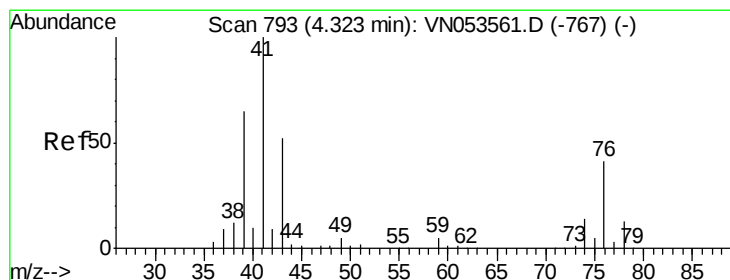
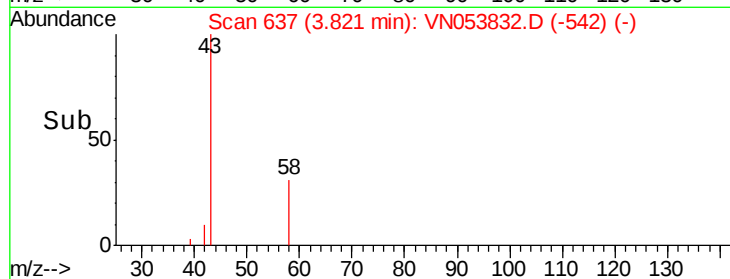
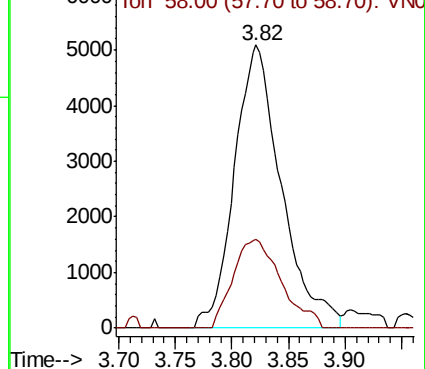
Ion Ratio Lower Upper

43 100

58 31.5 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053832.D (-542) (-)



#18

Methyl Acetate

Concen: 0.763 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN053832.D

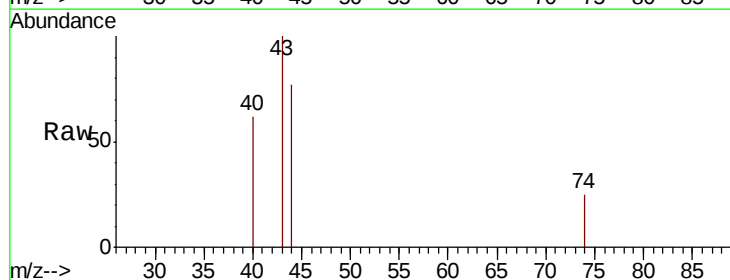
Acq: 18 Feb 2019 10:17

Tgt Ion: 43 Resp: 3804

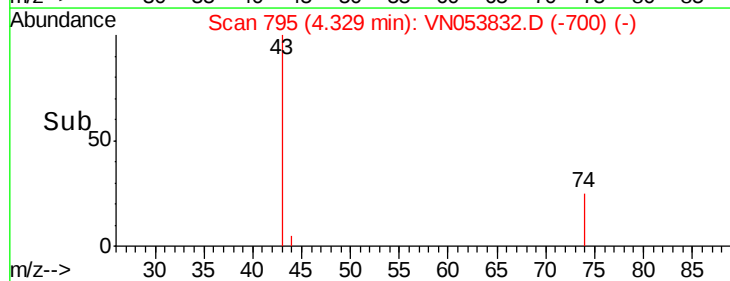
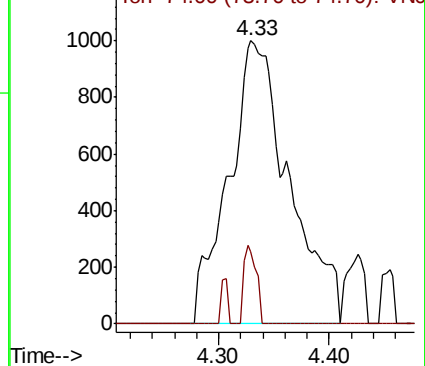
Ion Ratio Lower Upper

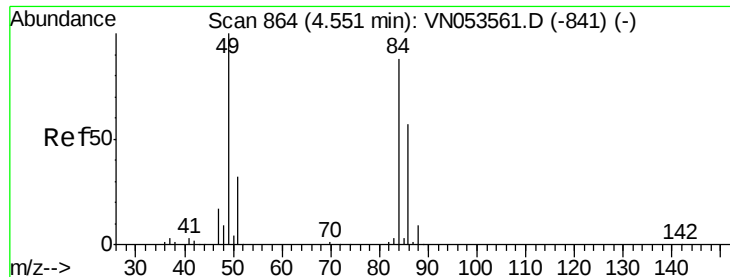
43 100

74 5.7 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053832.D (-700) (-)

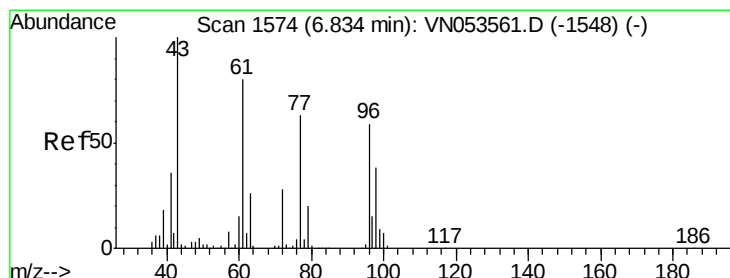
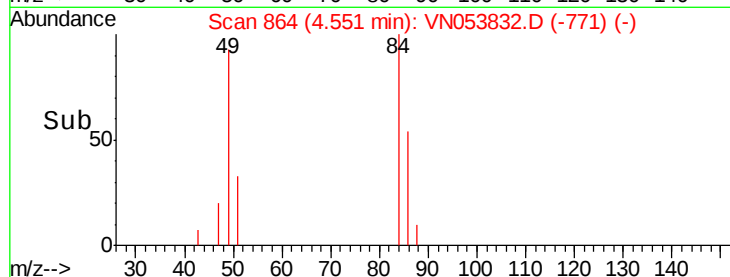
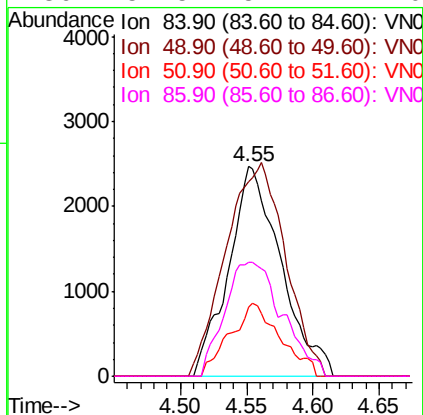
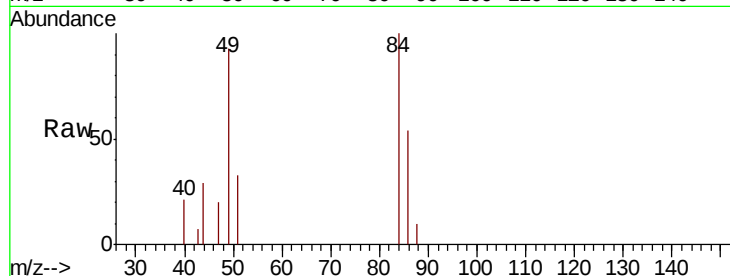




#20
Methylene Chloride
Concen: 0.964 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053832.D
Acq: 18 Feb 2019 10:17

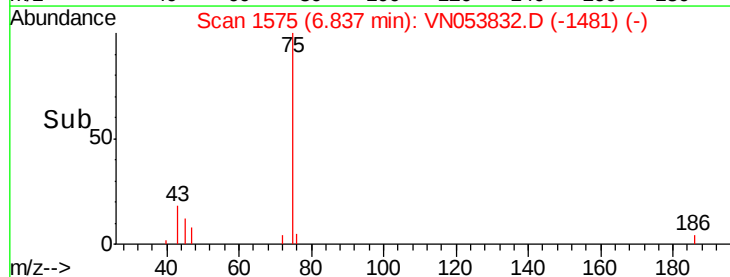
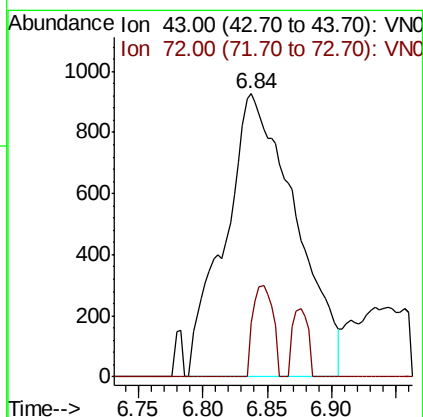
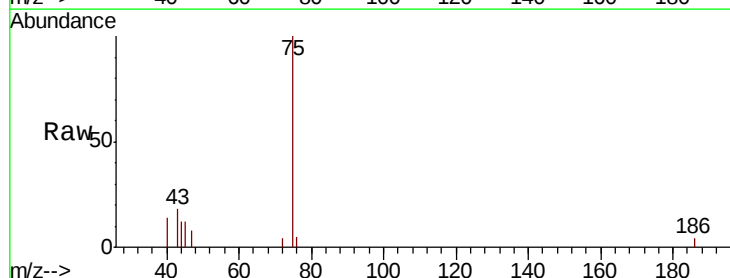
Instrument :
MSVOA_N
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PB117124ZHE#14

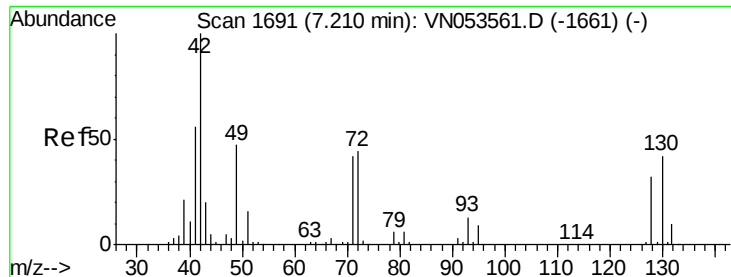
Tgt Ion: 84 Resp: 6805
Ion Ratio Lower Upper
84 100
49 92.9 94.3 141.5#
51 33.0 29.4 44.2
86 54.5 51.4 77.0



#25
2-Butanone
Concen: 1.473 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN053832.D
Acq: 18 Feb 2019 10:17

Tgt Ion: 43 Resp: 3536
Ion Ratio Lower Upper
43 100
72 19.2 22.0 33.0#

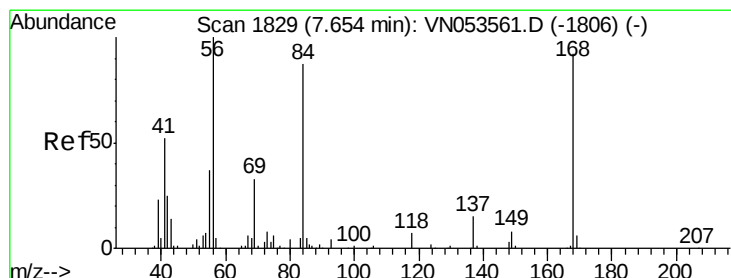
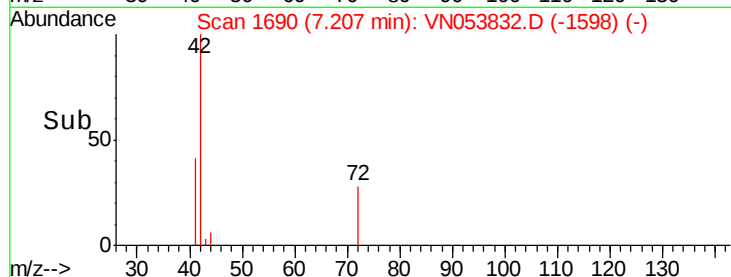
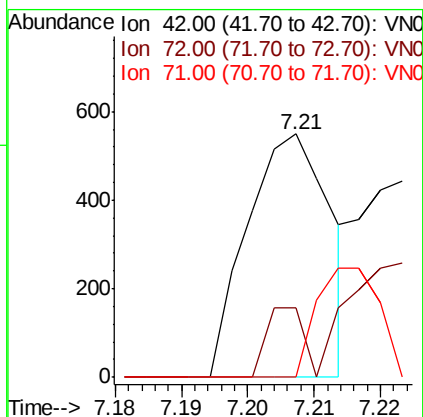
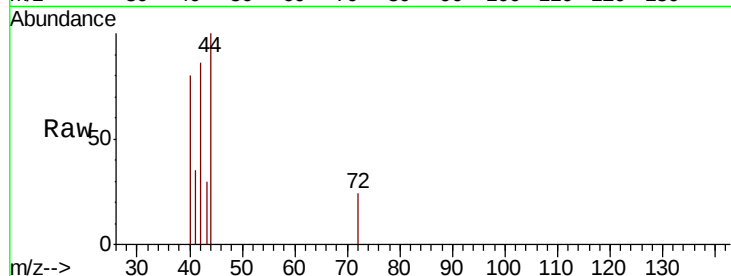




#29
Tetrahydrofuran
Concen: 0.310 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN053832.D
Acq: 18 Feb 2019 10:17

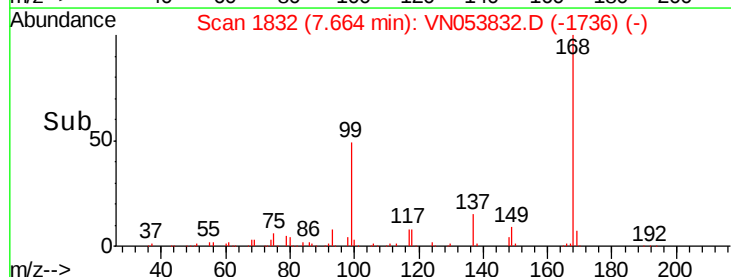
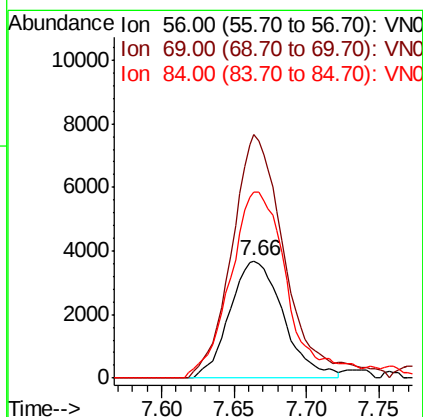
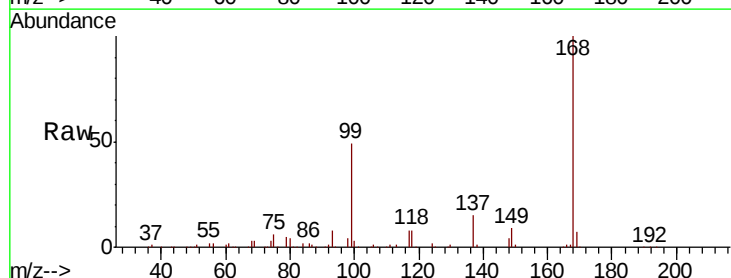
Instrument :
MSVOA_N
ClientSampleId :
PB117124ZHE#14

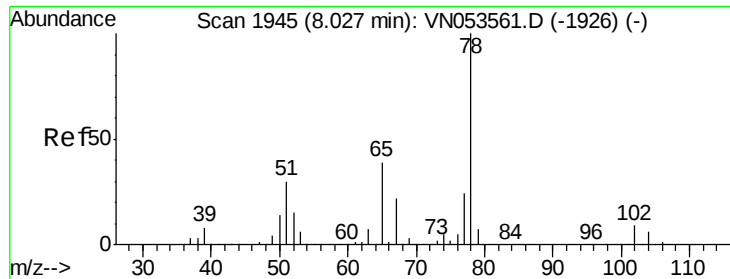
Tgt Ion: 42 Resp: 478
Ion Ratio Lower Upper
42 100
72 12.6 35.2 52.8#
71 33.7 33.0 49.4



#31
Cyclohexane
Concen: 0.686 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN053832.D
Acq: 18 Feb 2019 10:17

Tgt Ion: 56 Resp: 9466
Ion Ratio Lower Upper
56 100
69 208.1 26.4 39.6#
84 154.0 67.9 101.9#

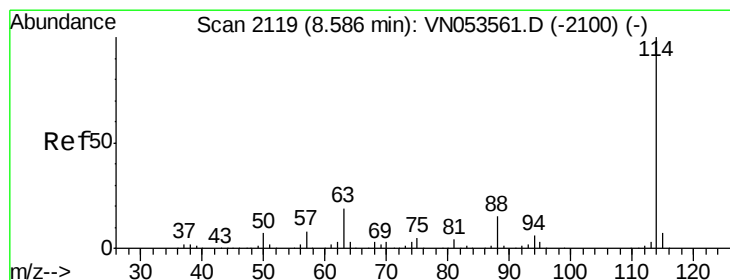
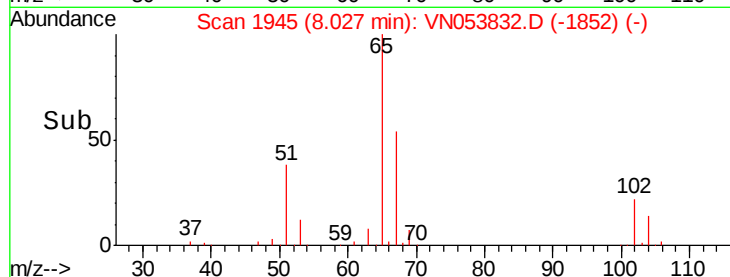
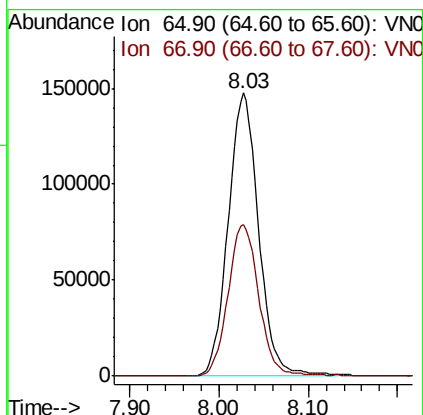
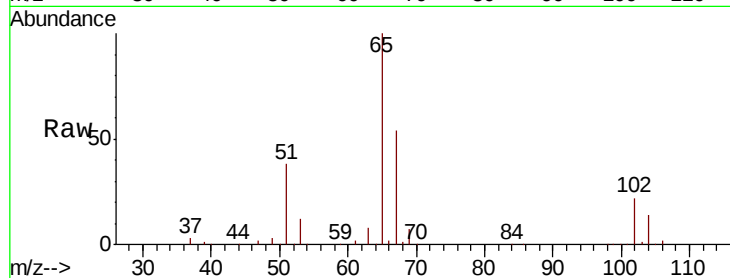




#33
 1,2-Dichloroethane-d4
 Concen: 53.065 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053832.D
 Acq: 18 Feb 2019 10:17

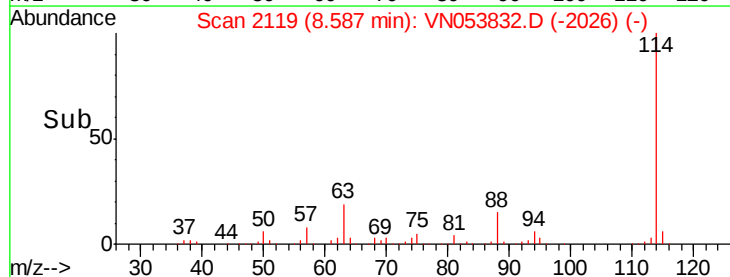
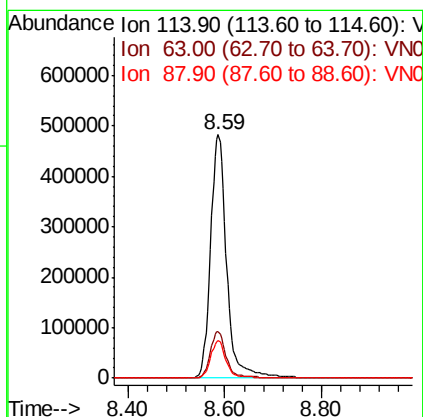
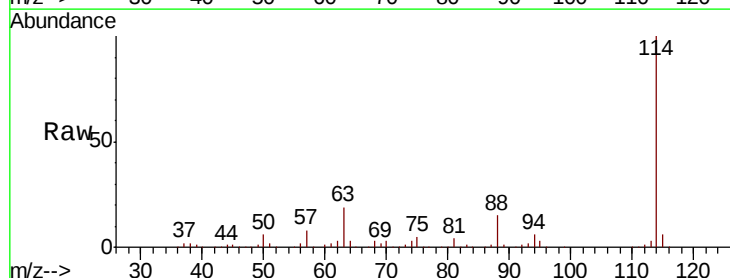
Instrument :
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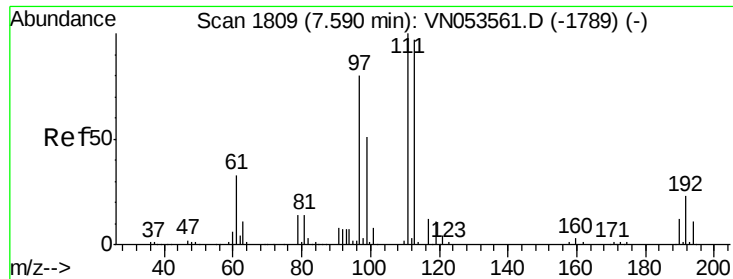
Tgt Ion: 65 Resp: 348222
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053832.D
 Acq: 18 Feb 2019 10:17

Tgt Ion: 114 Resp: 1112799
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.6
 88 15.4 0.0 30.4

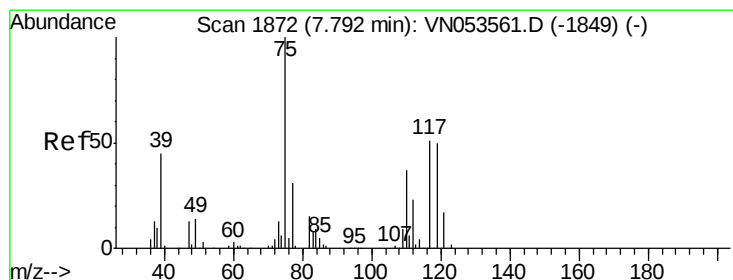
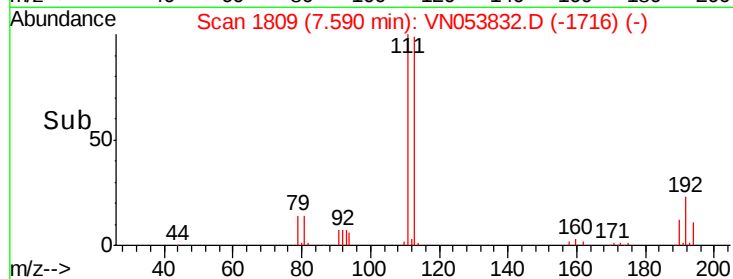
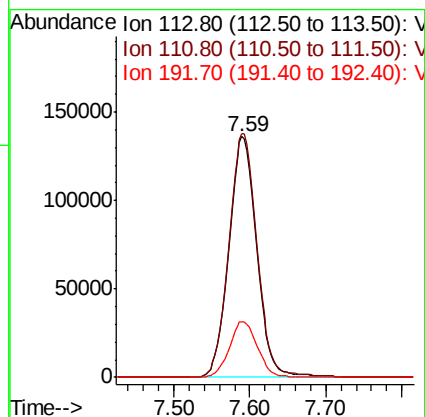
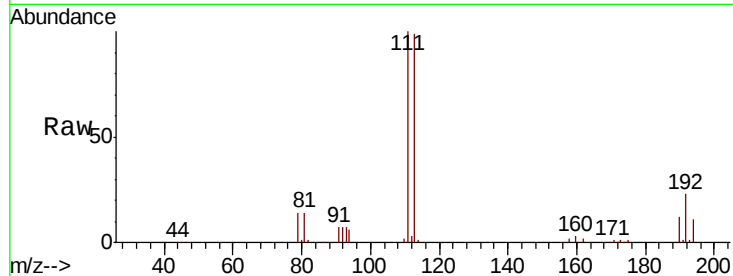




#35
 Dibromofluoromethane
 Concen: 49.397 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053832.D
 Acq: 18 Feb 2019 10:17

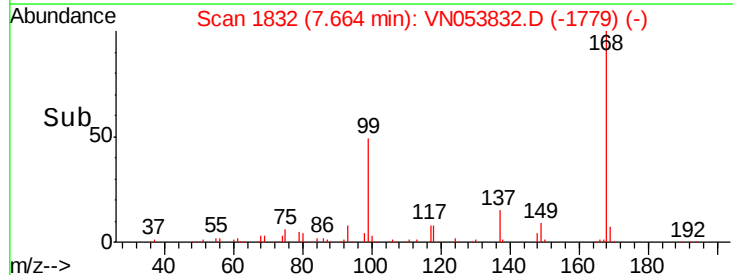
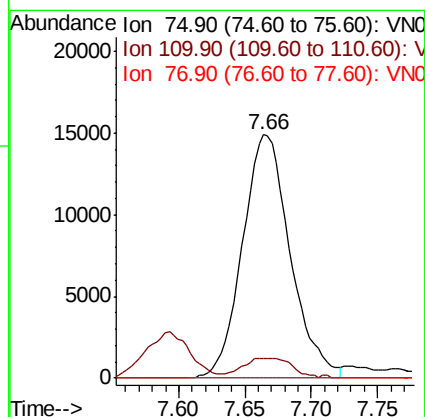
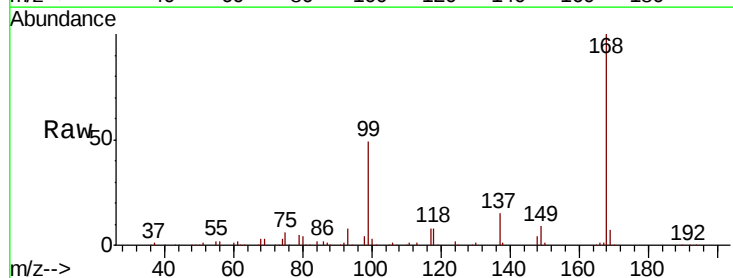
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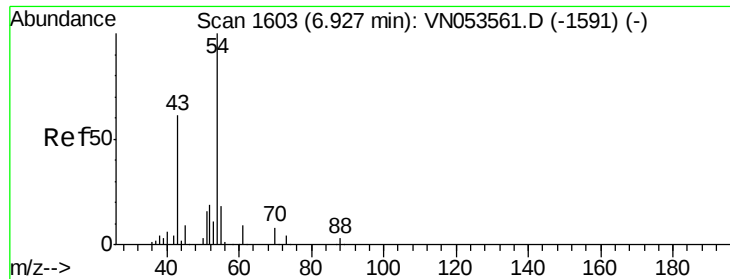
Tgt Ion:113 Resp: 347334
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.1 121.7
 192 23.3 18.2 27.2



#36
 1,1-Dichloropropene
 Concen: 3.728 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053832.D
 Acq: 18 Feb 2019 10:17

Tgt Ion: 75 Resp: 37398
 Ion Ratio Lower Upper
 75 100
 110 3.3 18.1 54.3#
 77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 0.631 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. -0.09 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

PB117124ZHE#14

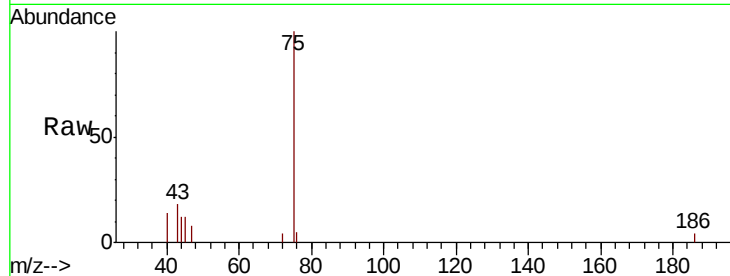
Tgt Ion: 43 Resp: 3536

Ion Ratio Lower Upper

43 100

61 5.9 11.8 17.6#

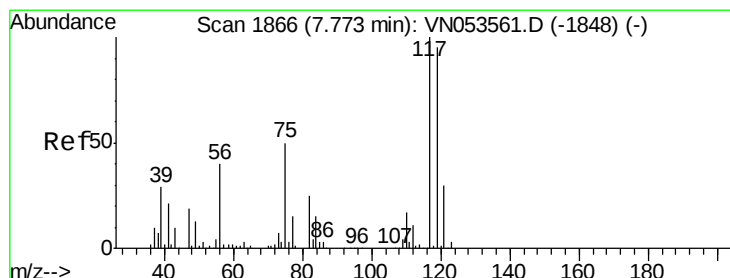
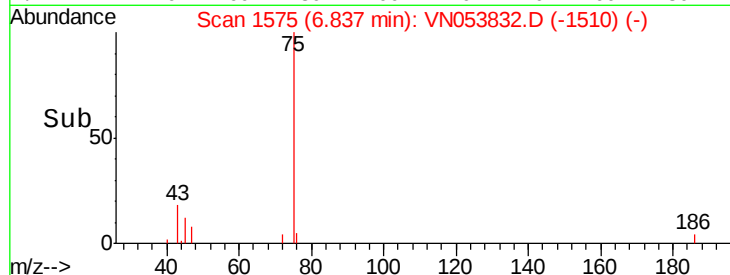
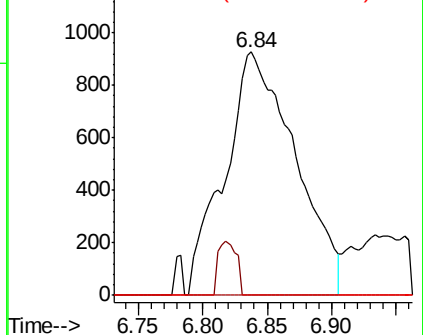
70 0.0 8.6 12.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0



#38

Carbon Tetrachloride

Concen: 5.262 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

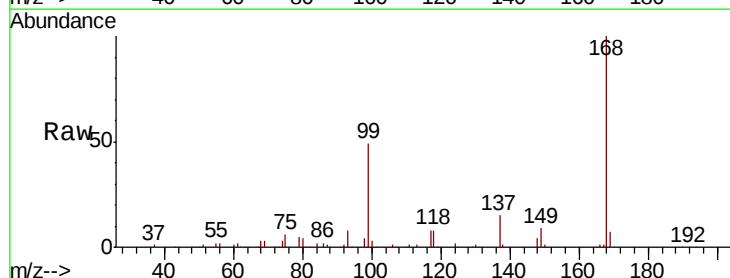
Tgt Ion: 117 Resp: 53174

Ion Ratio Lower Upper

117 100

119 5.3 77.2 115.8#

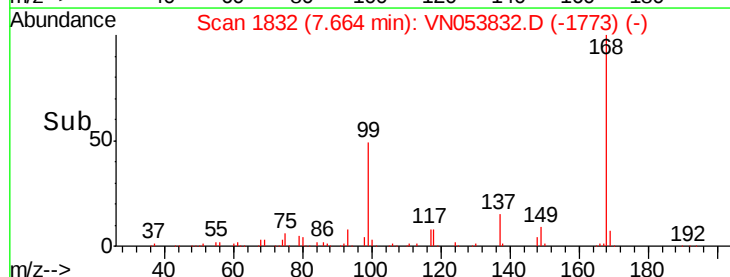
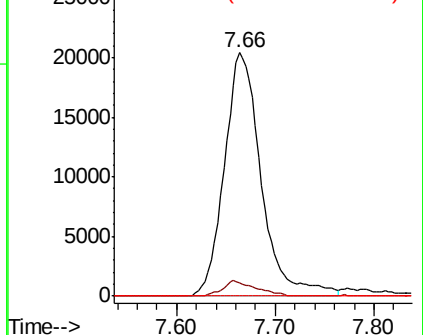
121 0.0 24.6 37.0#

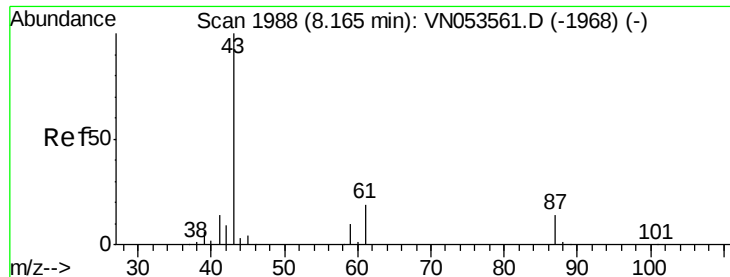


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.270 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

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ClientSampleId :

PB117124ZHE#14

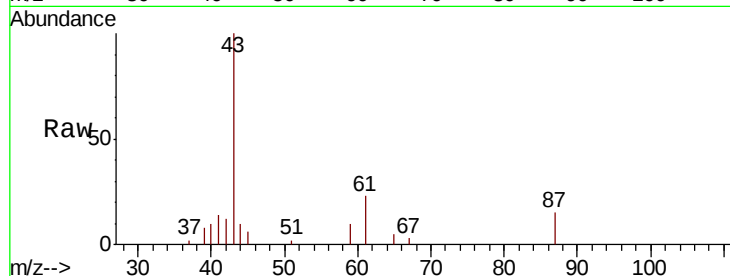
Tgt Ion: 43 Resp: 24563

Ion Ratio Lower Upper

43 100

61 18.7 23.9 35.9#

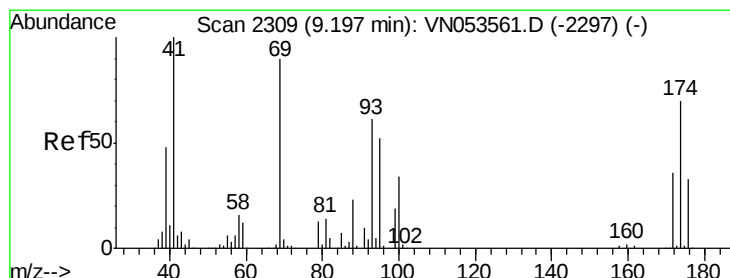
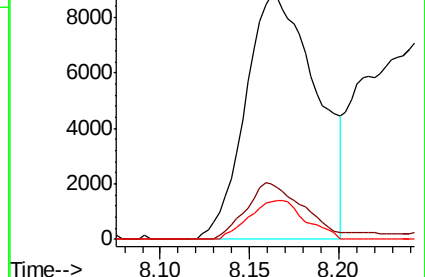
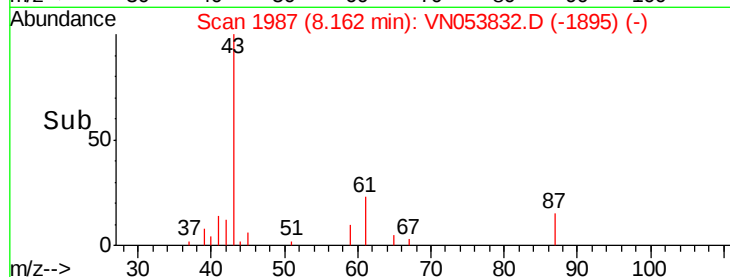
87 12.4 11.0 16.6



Abundance Ion 43.00 (42.70 to 43.70): VN053832.D (-1895) (-)

Ion 61.00 (60.70 to 61.70): VN053832.D (-1895) (-)

Ion 87.00 (86.70 to 87.70): VN053832.D (-1895) (-)



#48

Methyl methacrylate

Concen: 1.648 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

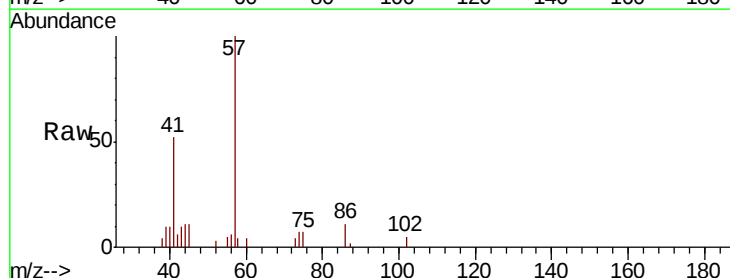
Tgt Ion: 41 Resp: 8513

Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

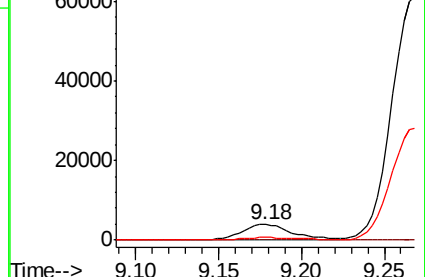
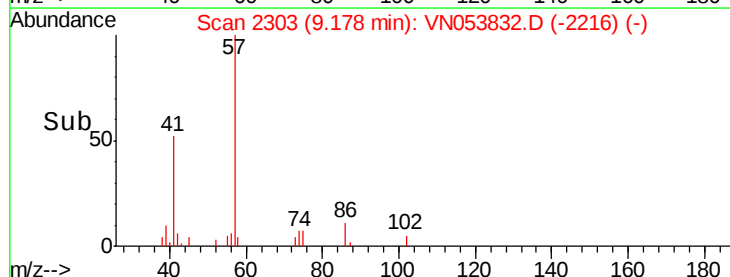
39 0.0 40.0 60.0#

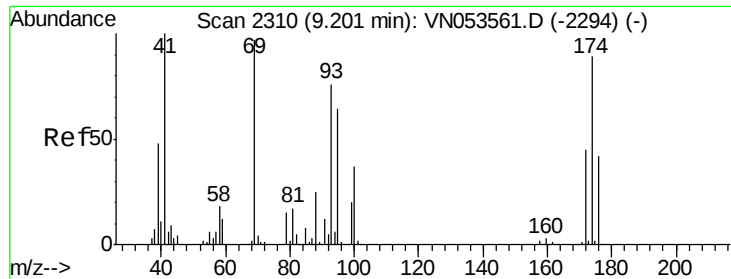


Abundance Ion 41.00 (40.70 to 41.70): VN053832.D (-2216) (-)

Ion 69.00 (68.70 to 69.70): VN053832.D (-2216) (-)

Ion 39.00 (38.70 to 39.70): VN053832.D (-2216) (-)

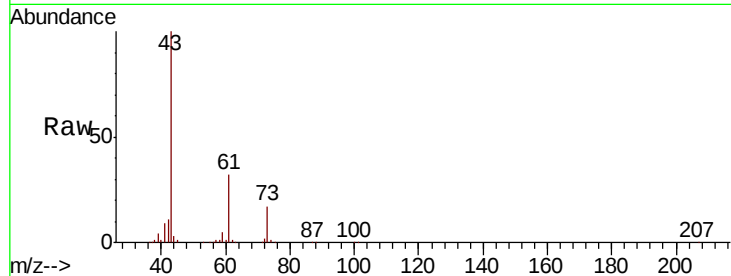




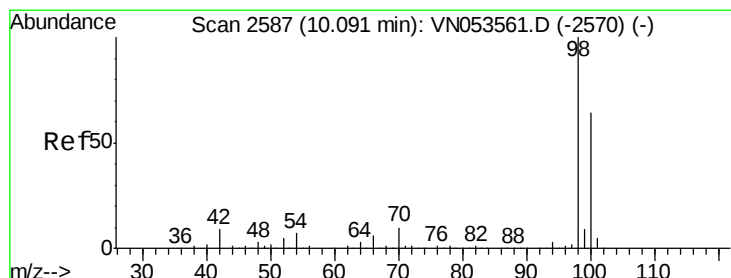
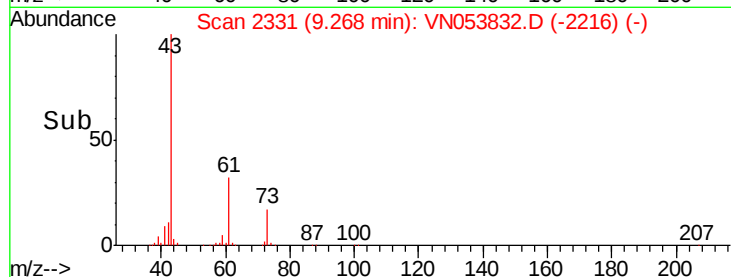
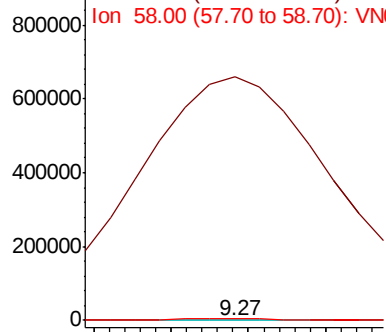
#49
1,4-Dioxane
Concen: 40.446 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN053832.D
Acq: 18 Feb 2019 10:17

Instrument :
MSVOA_N
ClientSampleId :
PB117124ZHE#14

Tgt Ion: 88 Resp: 105
Ion Ratio Lower Upper
88 100
43 1283335.2 27.8 41.6#
58 6337.1 56.5 84.7#

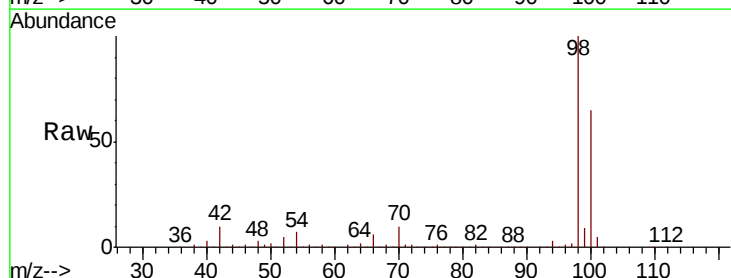


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

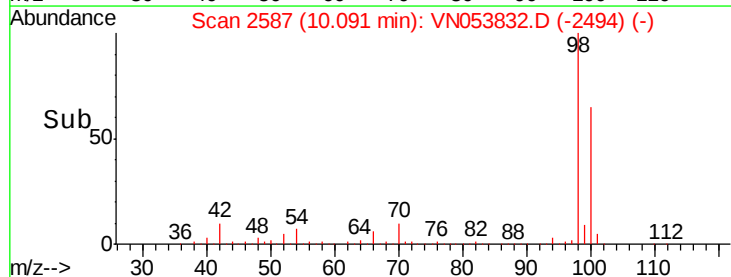
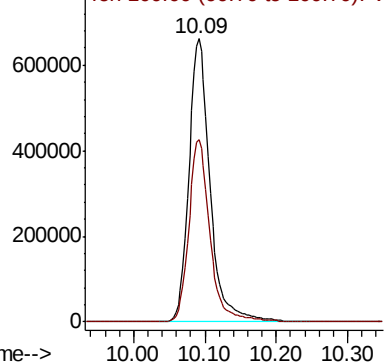


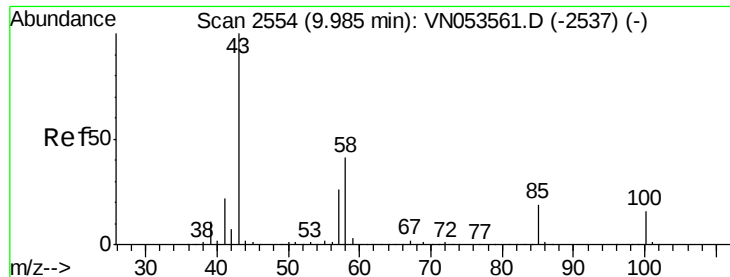
#50
Toluene-d8
Concen: 51.414 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053832.D
Acq: 18 Feb 2019 10:17

Tgt Ion: 98 Resp: 1357410
Ion Ratio Lower Upper
98 100
100 64.4 51.4 77.0



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: 1.371 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

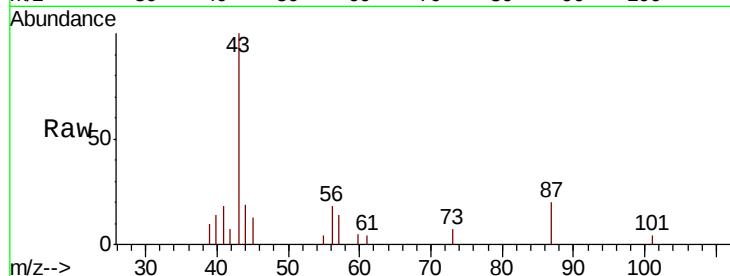
PB117124ZHE#14

Tgt Ion: 43 Resp: 7290

Ion Ratio Lower Upper

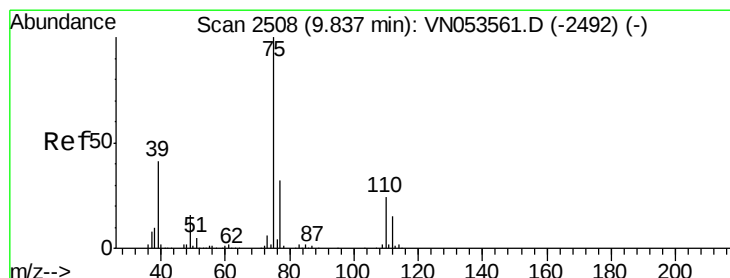
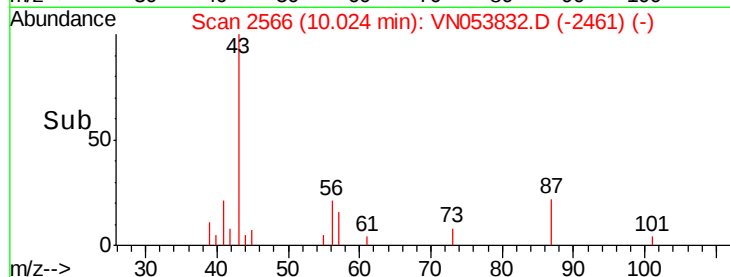
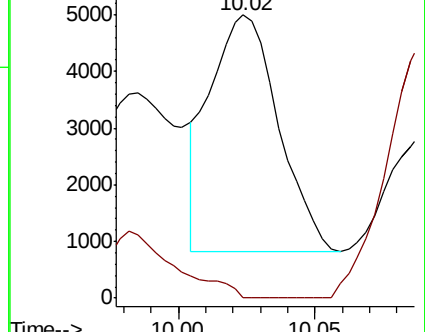
43 100

58 0.0 32.8 49.2#



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: 4.981 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

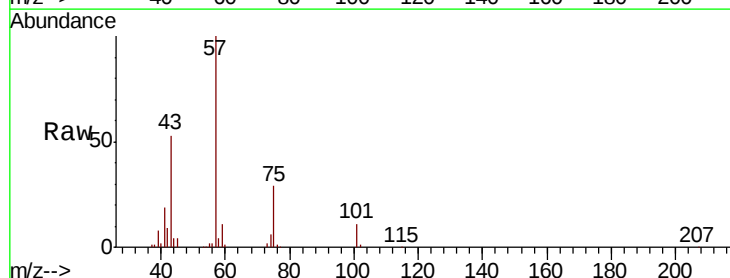
Tgt Ion: 75 Resp: 58611

Ion Ratio Lower Upper

75 100

77 0.7 25.8 38.6#

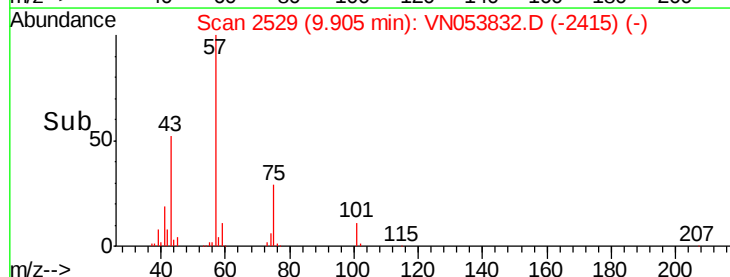
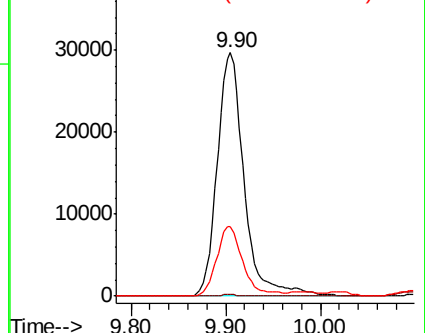
39 28.5 33.4 50.0#

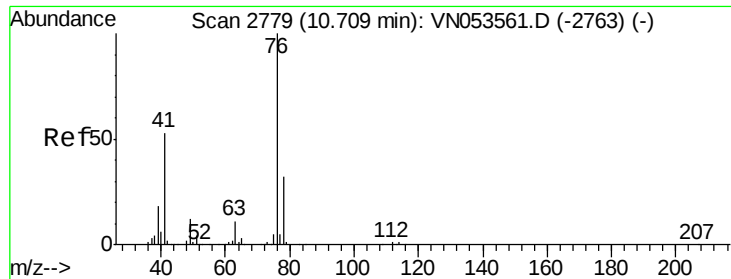


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.996 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

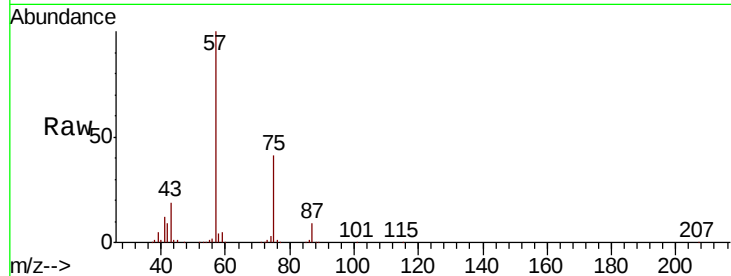
PB117124ZHE#14

Tgt Ion: 76 Resp: 11258

Ion Ratio Lower Upper

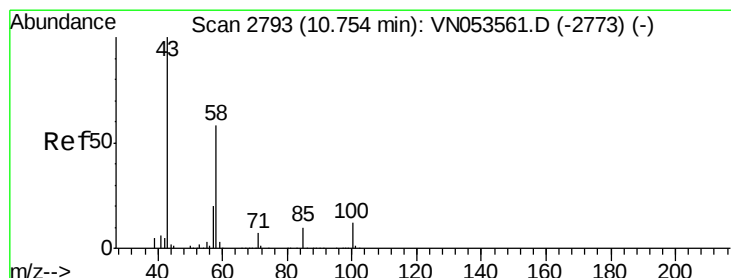
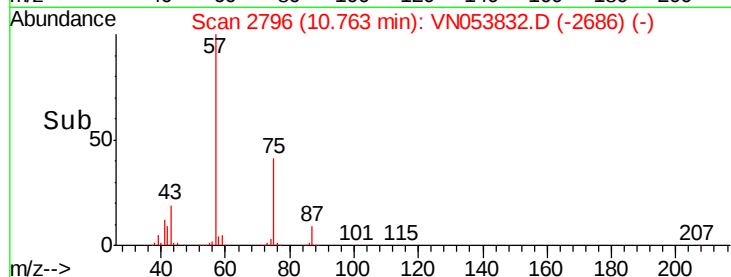
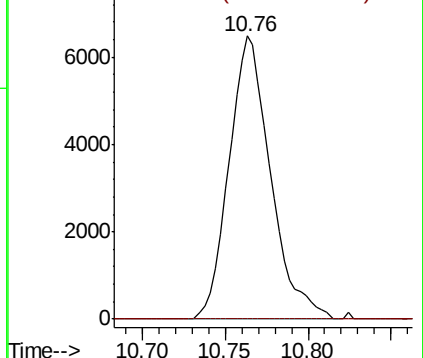
76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 40.028 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053832.D

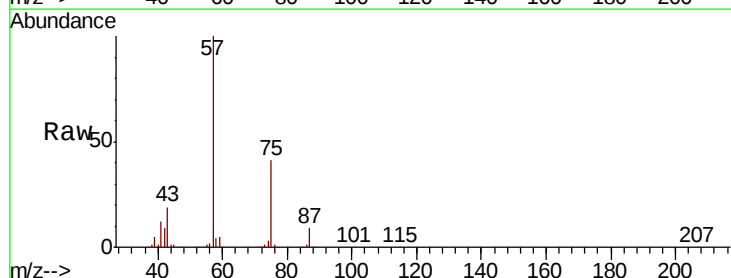
Acq: 18 Feb 2019 10:17

Tgt Ion: 43 Resp: 144476

Ion Ratio Lower Upper

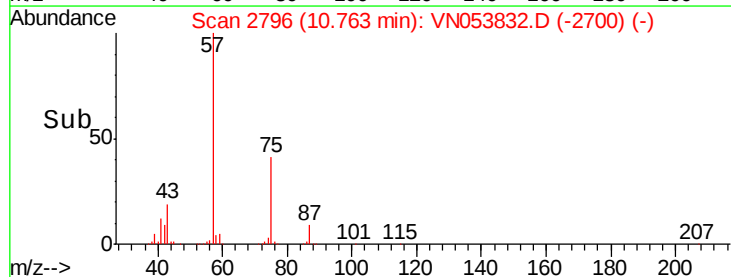
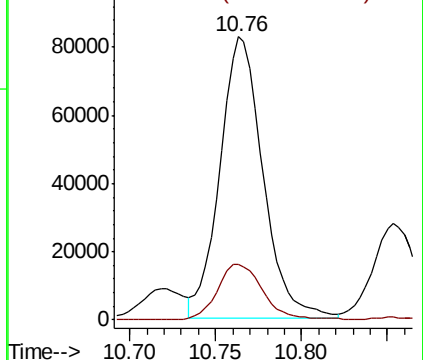
43 100

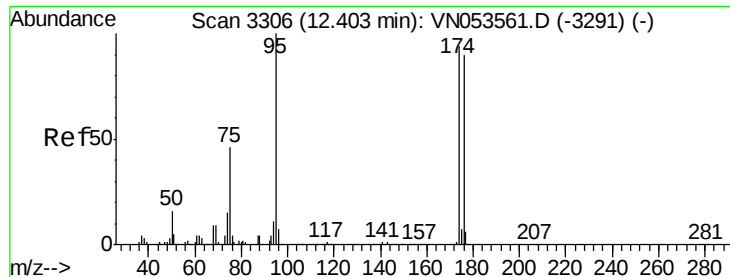
58 21.1 28.6 85.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 50.412 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

PB117124ZHE#14

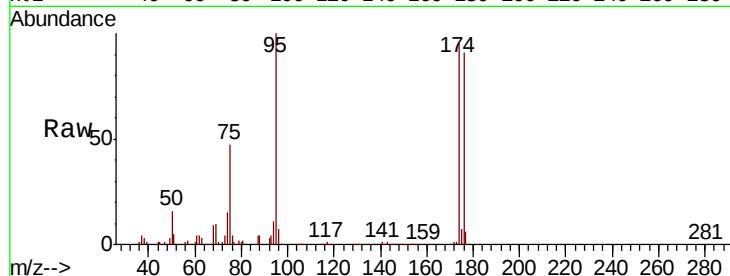
Tgt Ion: 95 Resp: 443895

Ion Ratio Lower Upper

95 100

174 95.5 0.0 183.2

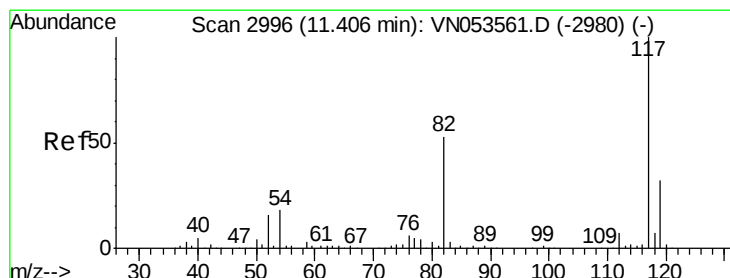
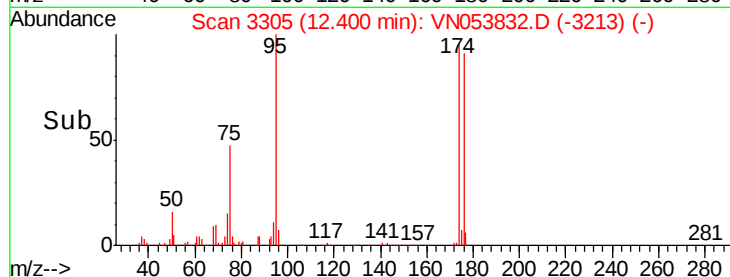
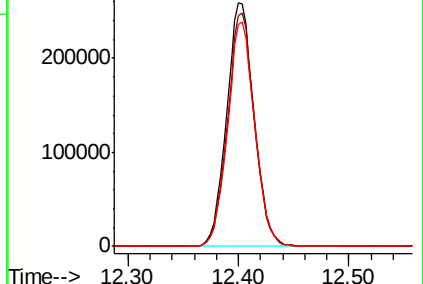
176 91.4 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053561.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053561.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053561.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

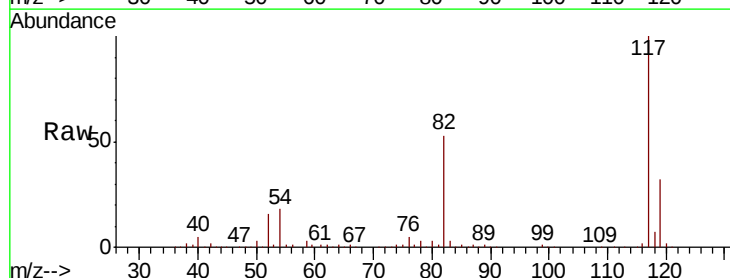
Tgt Ion: 117 Resp: 1041734

Ion Ratio Lower Upper

117 100

82 53.1 42.9 64.3

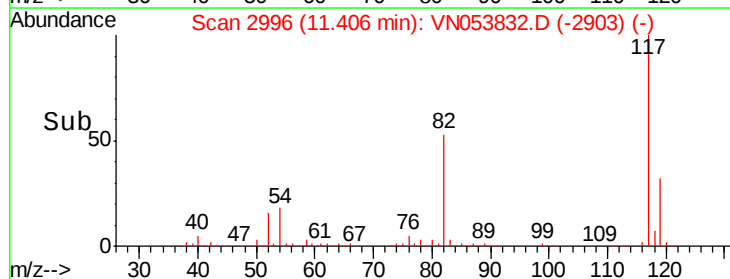
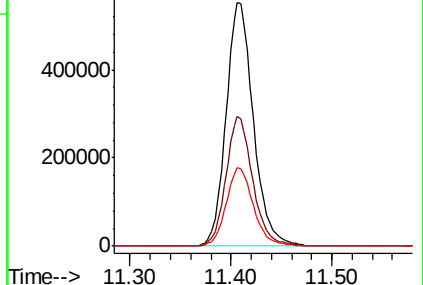
119 32.2 26.0 39.0

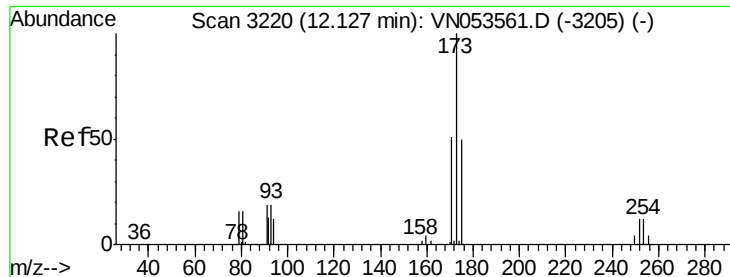


Abundance Ion 116.90 (116.60 to 117.60): VN053561.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053561.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053561.D (-2980) (-)





#71

Bromoform

Concen: 0.598 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

PB117124ZHE#14

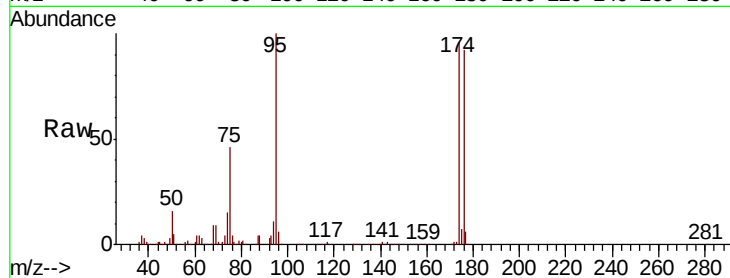
Tgt Ion:173 Resp: 3167

Ion Ratio Lower Upper

173 100

175 816.4 24.6 74.0#

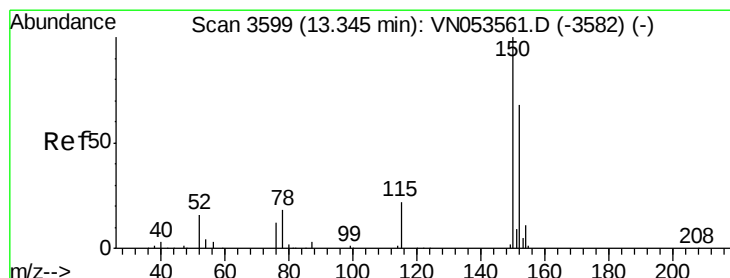
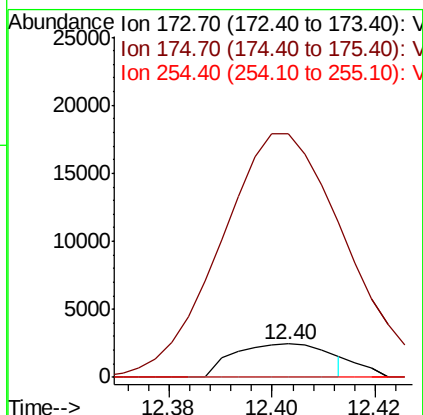
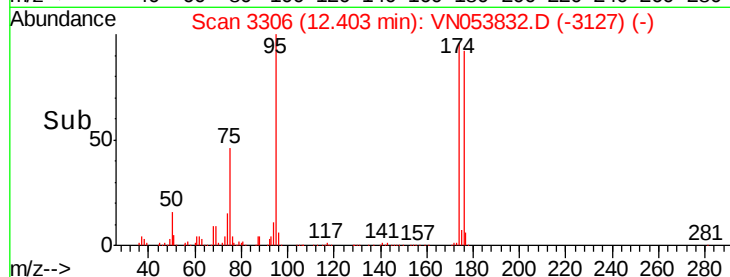
254 0.0 0.2 0.2#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

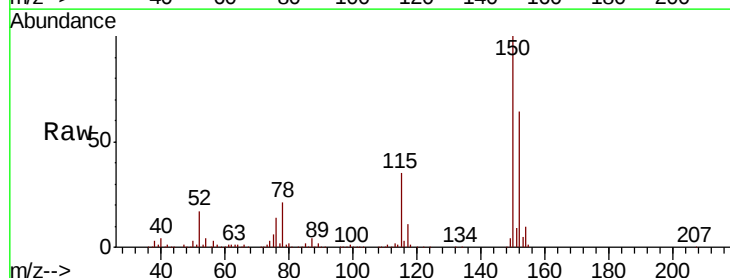
Tgt Ion:152 Resp: 398082

Ion Ratio Lower Upper

152 100

115 54.8 27.8 83.4

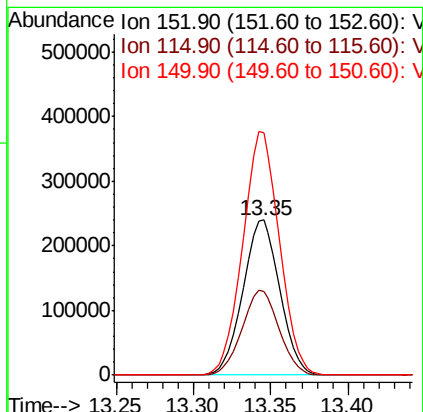
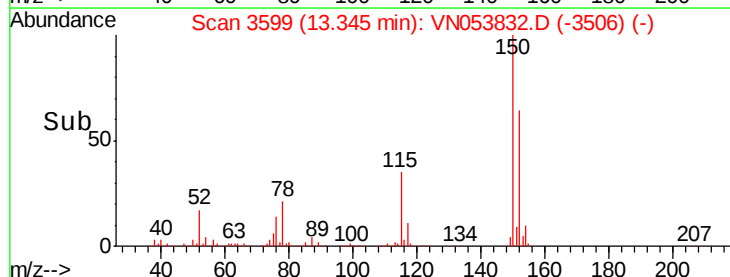
150 156.2 0.0 349.0

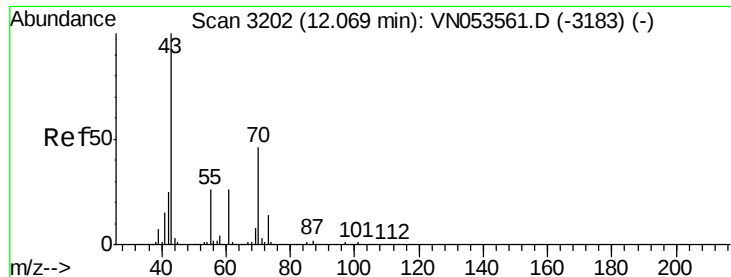


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 2.164 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

PB117124ZHE#14

Tgt Ion: 43 Resp: 14560

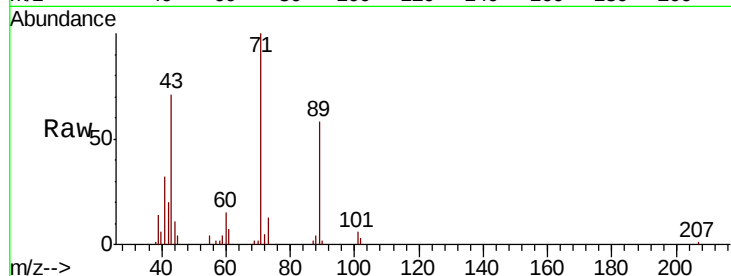
Ion Ratio Lower Upper

43 100

70 2.2 35.4 53.2#

55 5.1 20.9 31.3#

61 11.2 20.5 30.7#

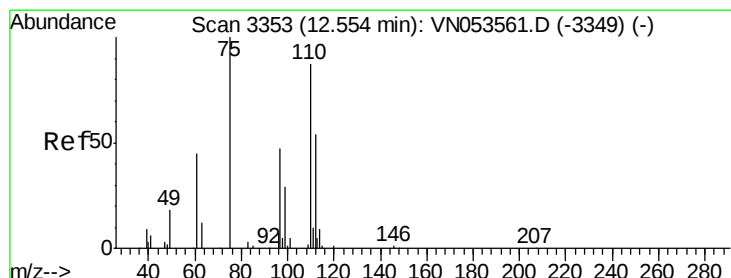
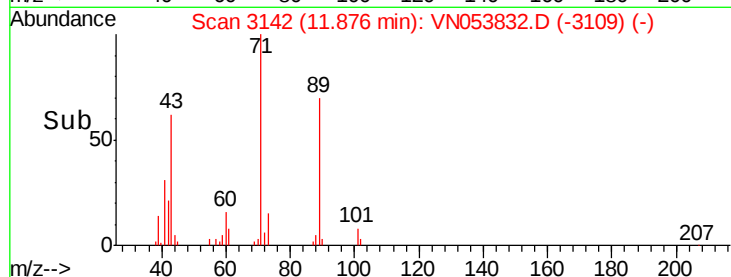
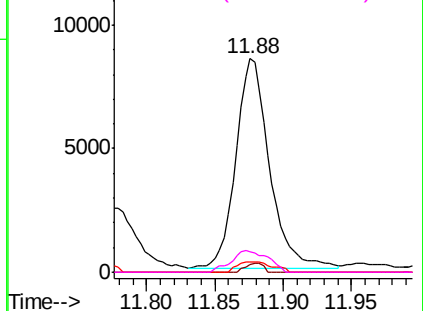


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 39.917 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053832.D

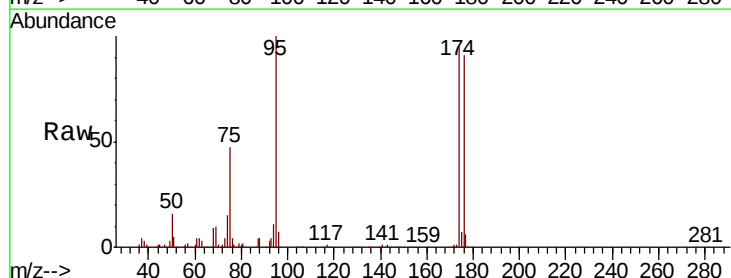
Acq: 18 Feb 2019 10:17

Tgt Ion: 75 Resp: 204098

Ion Ratio Lower Upper

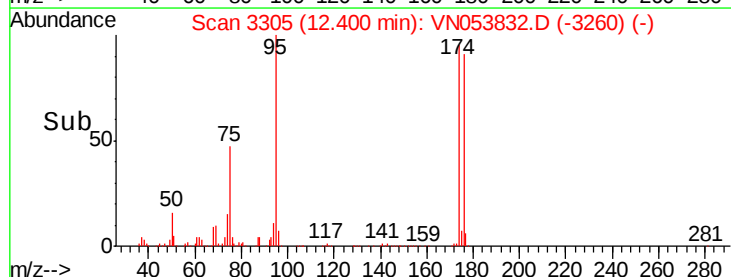
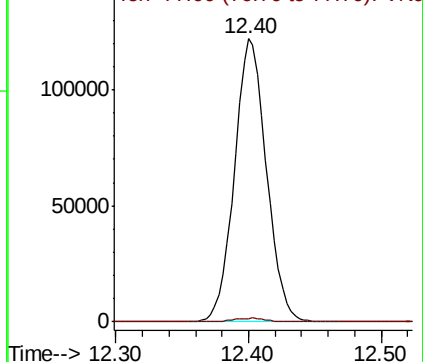
75 100

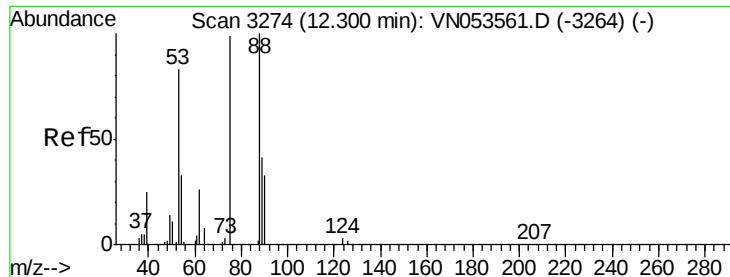
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 112.242 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

PB117124ZHE#14

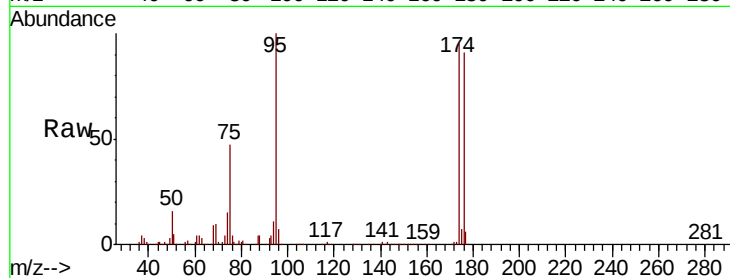
Tgt Ion: 75 Resp: 204098

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

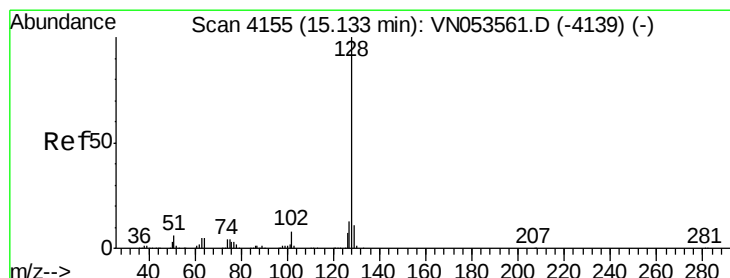
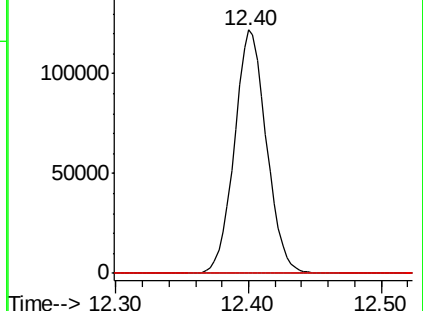
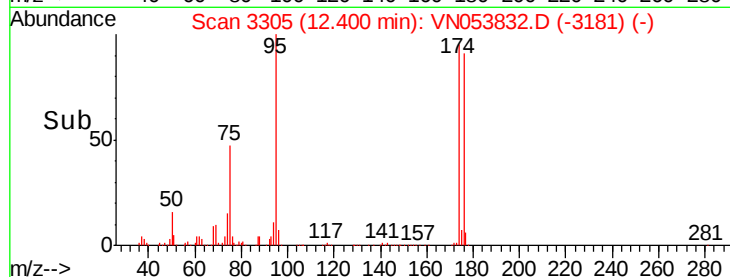
89 0.0 35.6 53.4#



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



#95

Naphthalene

Concen: 1.780 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053832.D

Acq: 18 Feb 2019 10:17

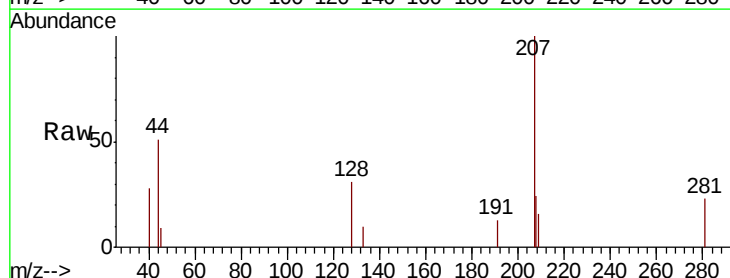
Tgt Ion: 128 Resp: 789

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

