

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020619\
 Data File : VN053632.D
 Acq On : 6 Feb 2019 14:03
 Operator : JC/SP
 Sample : PB116860ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116860ZHE#05

Quant Time: Feb 07 03:42:01 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	779303	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1261916	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1141385	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	482513	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	408394	52.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.48%	
35) Dibromofluoromethane	7.59	113	403920	50.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.32%	
50) Toluene-d8	10.09	98	1515195	50.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.22%	
62) 4-Bromofluorobenzene	12.40	95	505516	50.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.26%	

Target Compounds

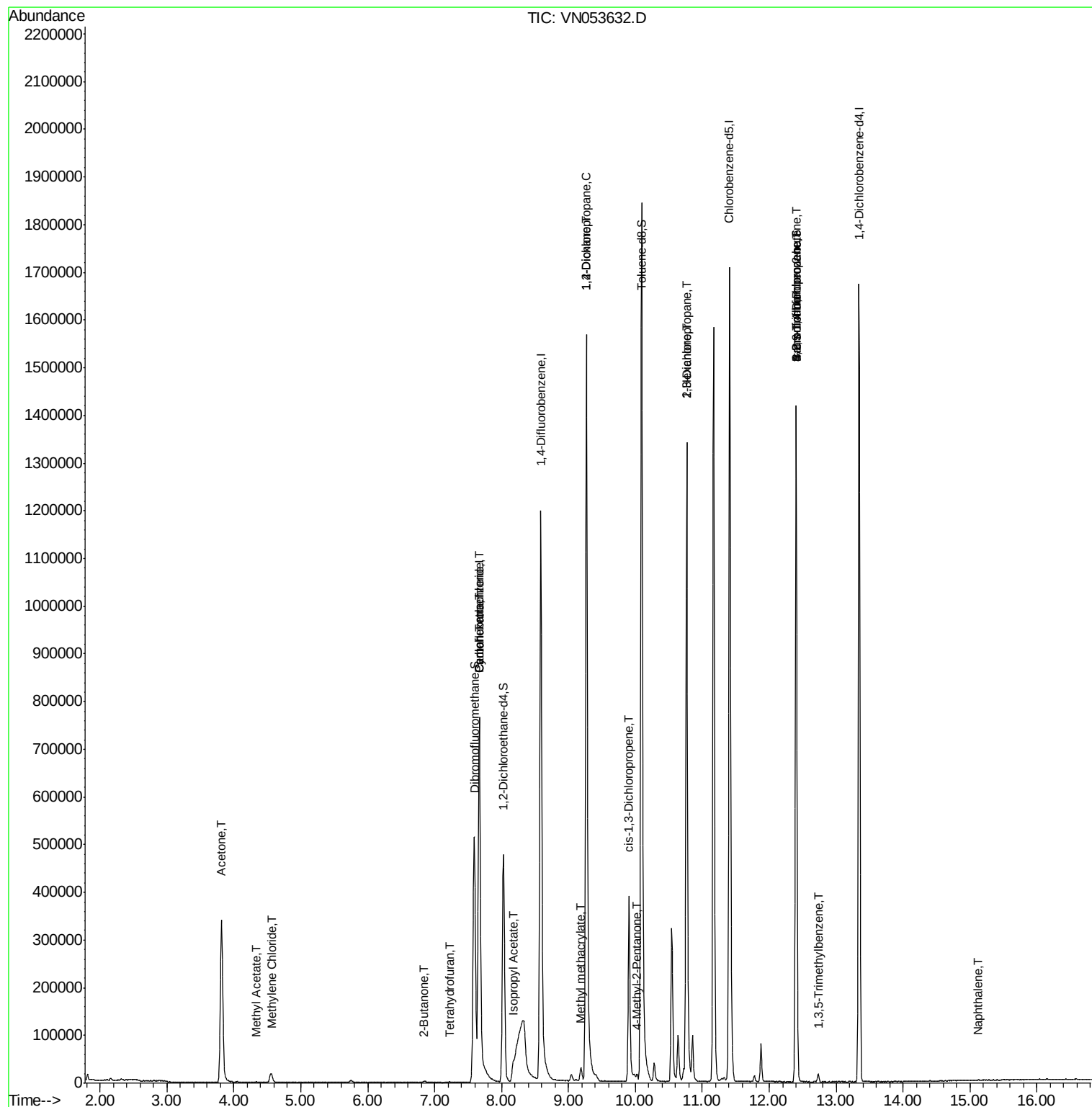
					Qvalue	
16) Acetone	3.82	43	575183	286.829	ug/l	99
18) Methyl Acetate	4.33	43	1265	0.213	ug/l #	83
20) Methylene Chloride	4.56	84	16109	1.915	ug/l	94
25) 2-Butanone	6.83	43	1875	0.656	ug/l	90
29) Tetrahydrofuran	7.22	42	1621	0.883	ug/l #	46
31) Cyclohexane	7.67	56	11250	0.684	ug/l #	1
38) Carbon Tetrachloride	7.67	117	60050	5.240	ug/l #	17
43) Isopropyl Acetate	8.17	43	40911	3.334	ug/l #	79
45) 1,2-Dichloropropane	9.27	63	2393	0.267	ug/l #	43
48) Methyl methacrylate	9.18	41	9720	1.660	ug/l #	12
49) 1,4-Dioxane	9.27	88	209	41.465	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	10860	1.801	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	81961	6.142	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	15173	1.183	ug/l #	43
59) 2-Hexanone	10.77	43	202963	49.587	ug/l #	50
71) Bromoform	12.41	173	3615	0.623	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	237668	38.348	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8340	0.297	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	237668	107.833	ug/l #	15
95) Naphthalene	15.13	128	241	1.747	ug/l #	69

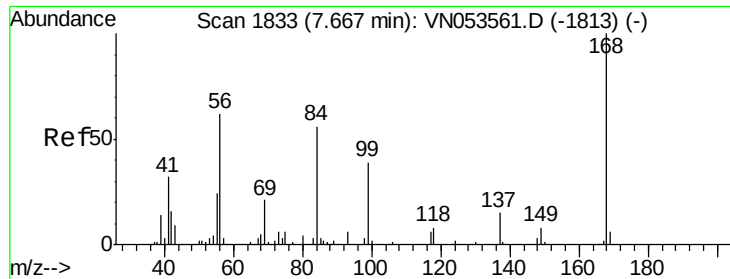
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
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: VN053632.D

Acq: 6 Feb 2019 14:03

Instrument :

MSVOA_N

ClientSampleId :

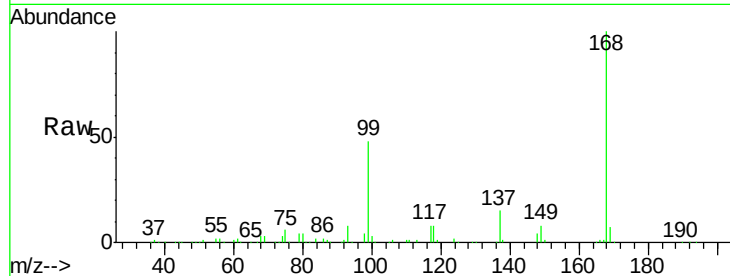
PB116860ZHE#05

Tot Ion:168 Resp: 779303

Ion Ratio Lower Upper

168 100

99 47.9 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053632.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053632.D (-1740) (-)

7.67

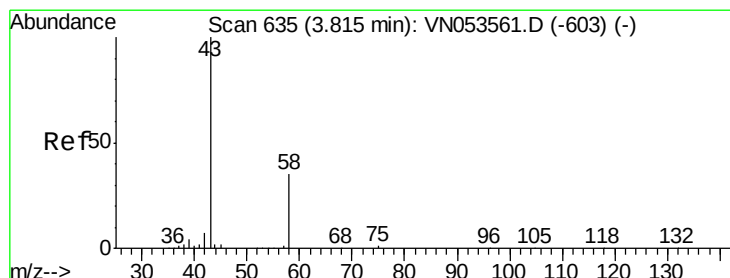
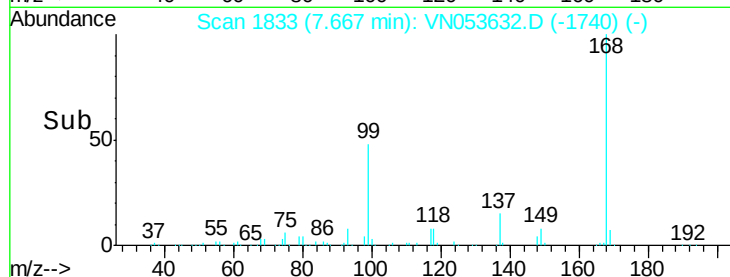
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 286.829 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053632.D

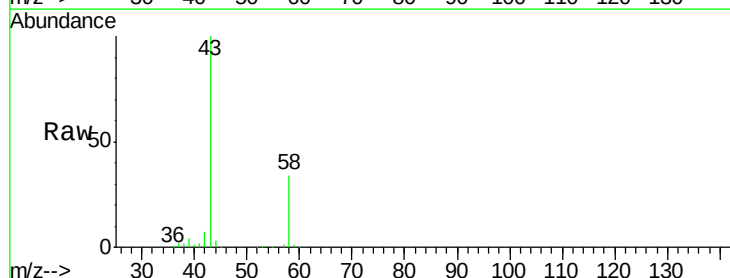
Acq: 6 Feb 2019 14:03

Tgt Ion: 43 Resp: 575183

Ion Ratio Lower Upper

43 100

58 34.3 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053632.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN053632.D (-542) (-)

3.82

250000

200000

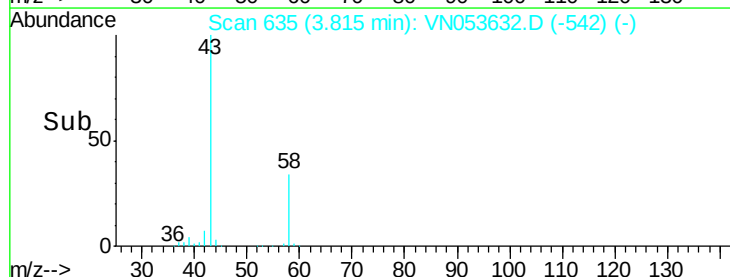
150000

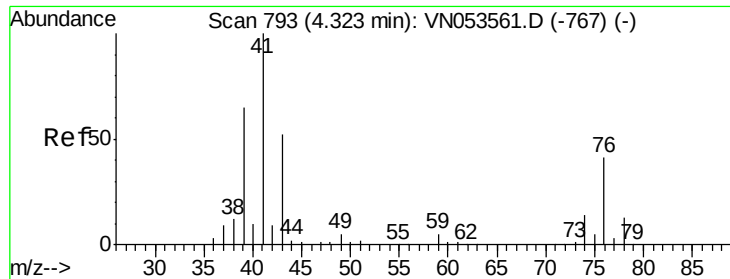
100000

50000

0

Time-->

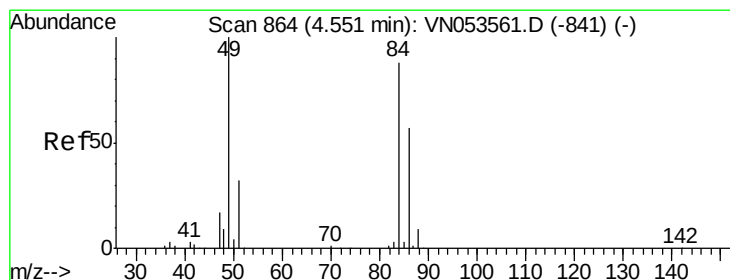
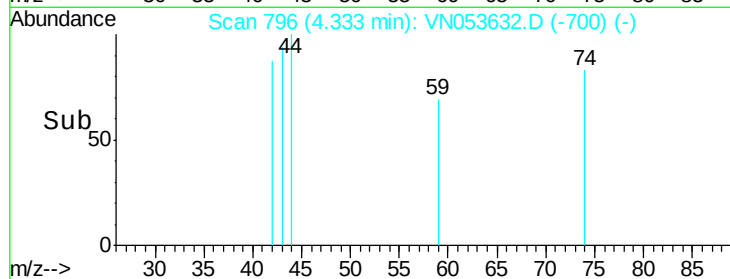
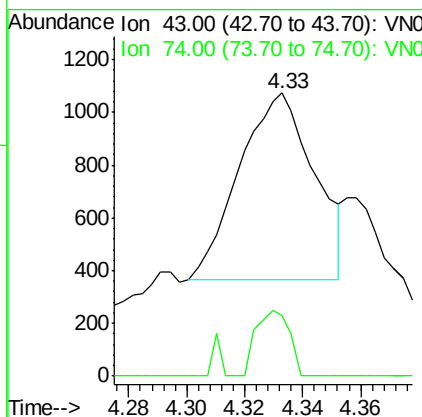
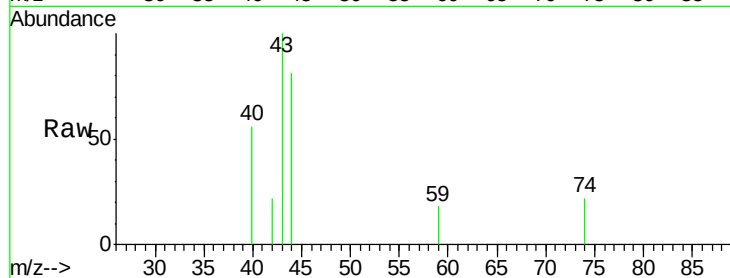




#18
Methyl Acetate
Concen: 0.213 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN053632.D
Acq: 6 Feb 2019 14:03

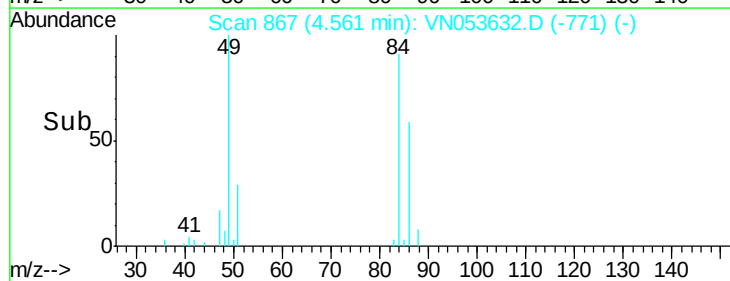
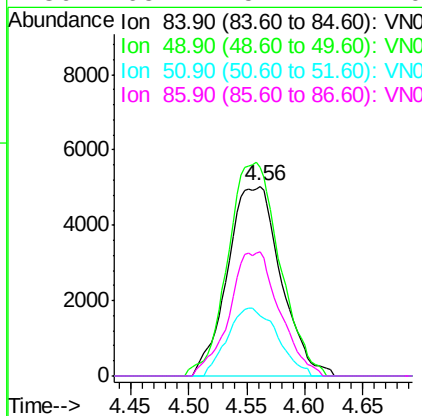
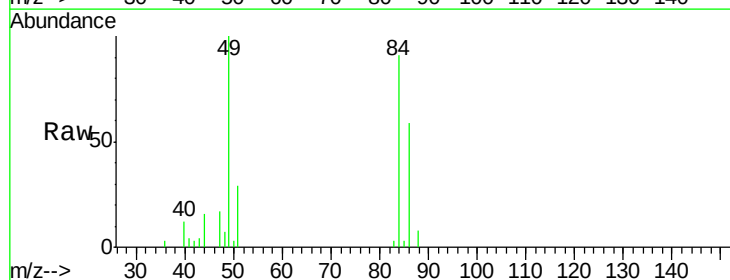
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#05

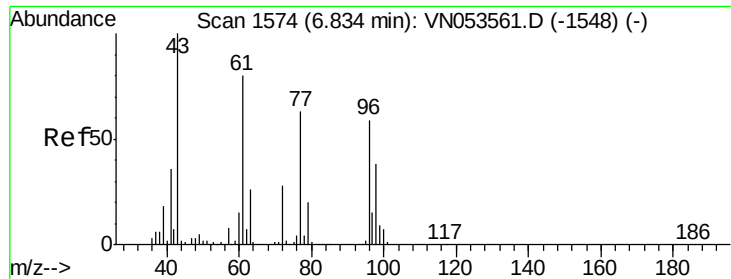
Tot Ion: 43 Resp: 1265
Ion Ratio Lower Upper
43 100
74 15.8 19.4 29.2#



#20
Methylene Chloride
Concen: 1.915 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN053632.D
Acq: 6 Feb 2019 14:03

Tgt Ion: 84 Resp: 16109
Ion Ratio Lower Upper
84 100
49 110.3 94.3 141.5
51 31.6 29.4 44.2
86 65.4 51.4 77.0

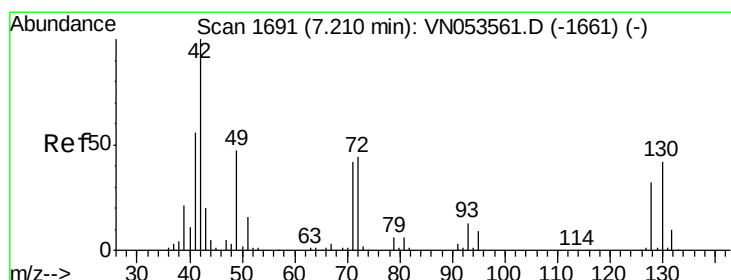
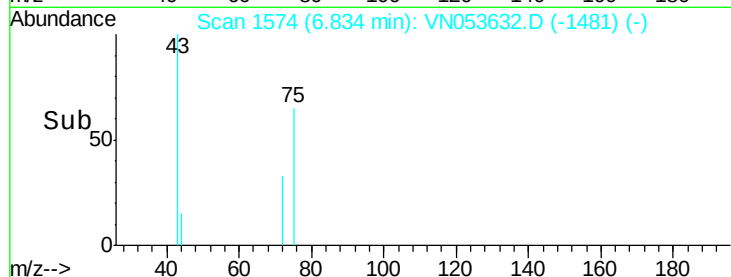
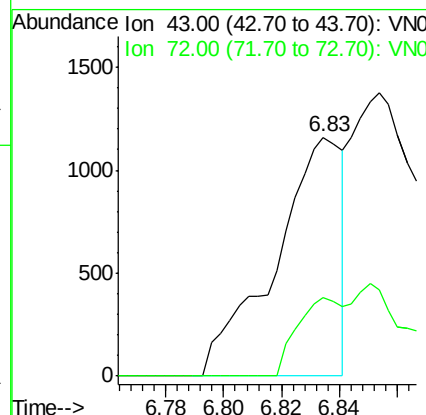
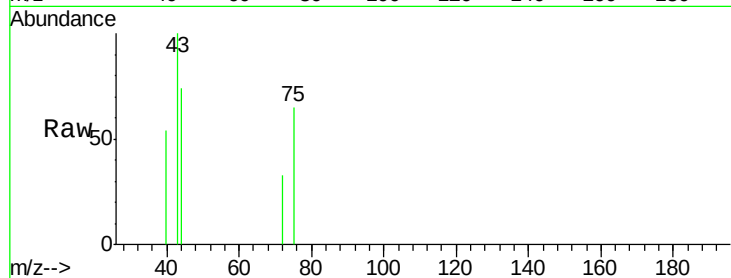




#25
2-Butanone
Concen: 0.656 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053632.D
Acq: 6 Feb 2019 14:03

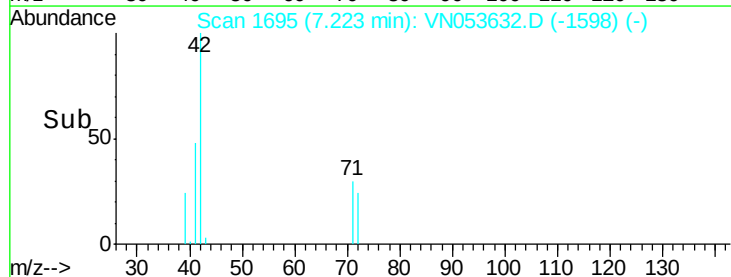
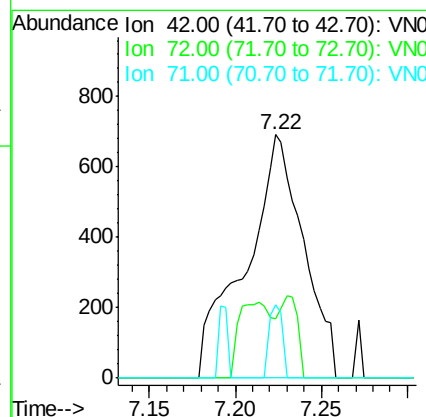
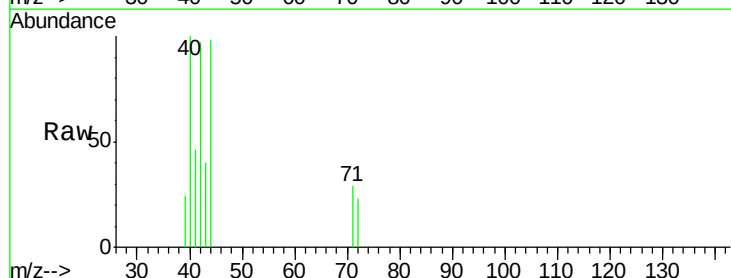
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#05

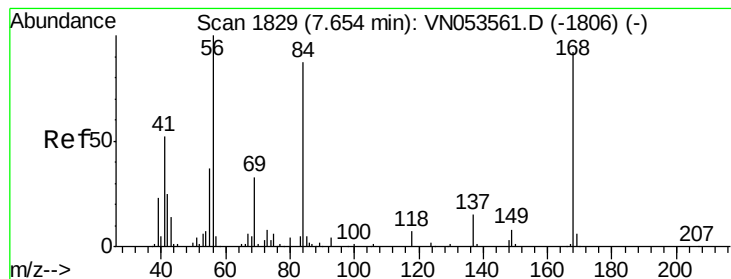
Tot Ion: 43 Resp: 1875
Ion Ratio Lower Upper
43 100
72 32.8 22.0 33.0



#29
Tetrahydrofuran
Concen: 0.883 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN053632.D
Acq: 6 Feb 2019 14:03

Tgt Ion: 42 Resp: 1621
Ion Ratio Lower Upper
42 100
72 10.0 35.2 52.8#
71 6.8 33.0 49.4#





#31

Cyclohexane

Concen: 0.684 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053632.D

Acq: 6 Feb 2019 14:03

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#05

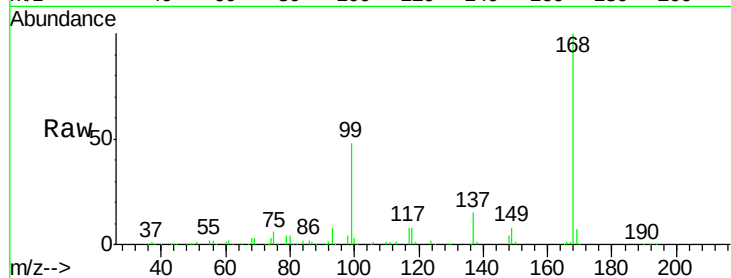
Tot Ion: 56 Resp: 11250

Ion Ratio Lower Upper

56 100

69 194.8 26.4 39.6#

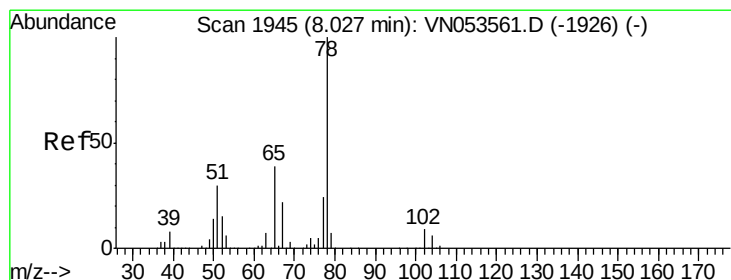
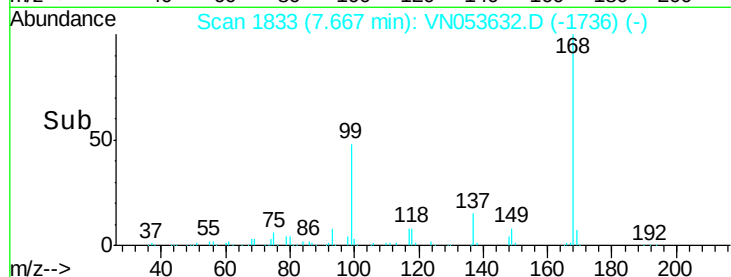
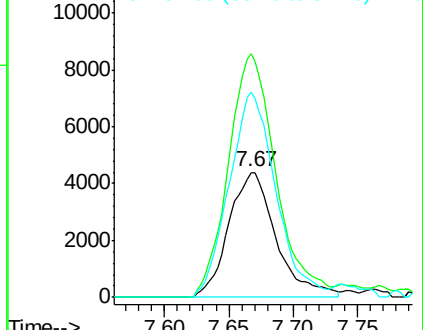
84 164.3 67.9 101.9#



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: VN053632.D

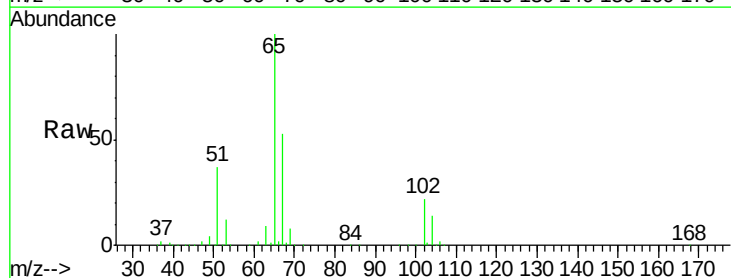
Acq: 6 Feb 2019 14:03

Tgt Ion: 65 Resp: 408394

Ion Ratio Lower Upper

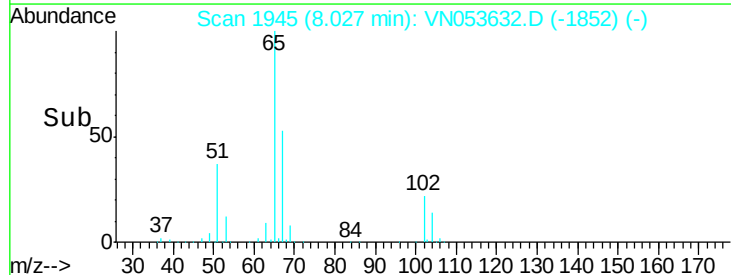
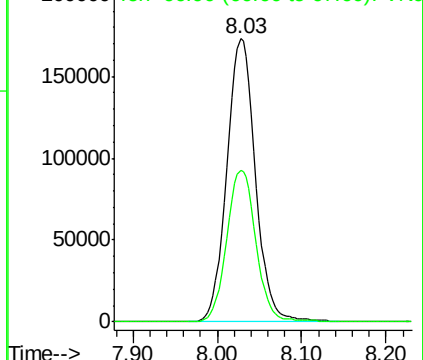
65 100

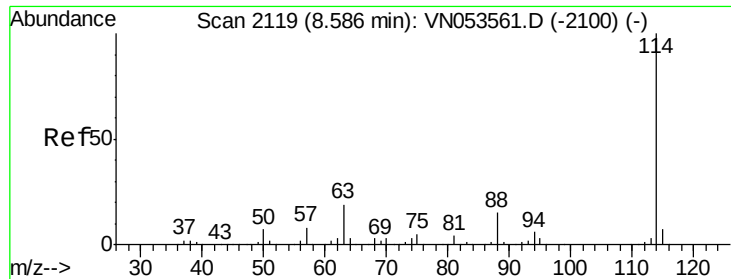
67 54.9 0.0 111.2



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: VN053632.D

Acq: 6 Feb 2019 14:03

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#05

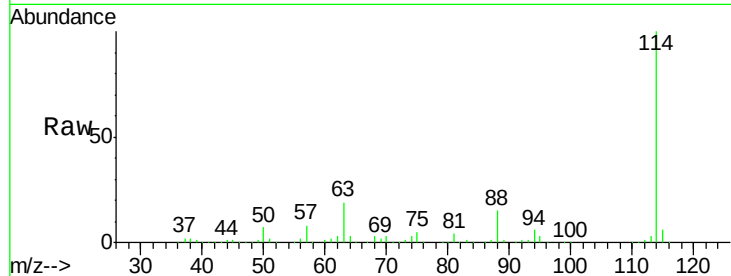
Tot Ion:114 Resp: 1261916

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.6

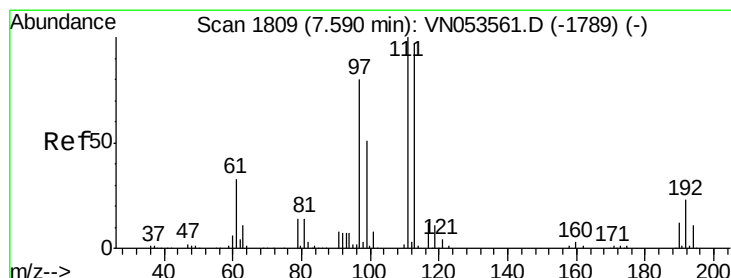
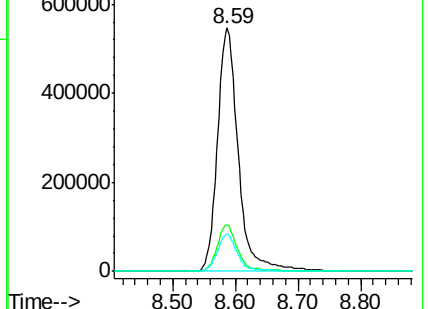
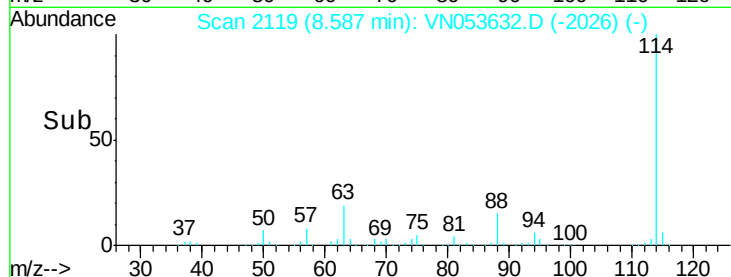
88 15.2 0.0 30.4



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: VN053632.D

Acq: 6 Feb 2019 14:03

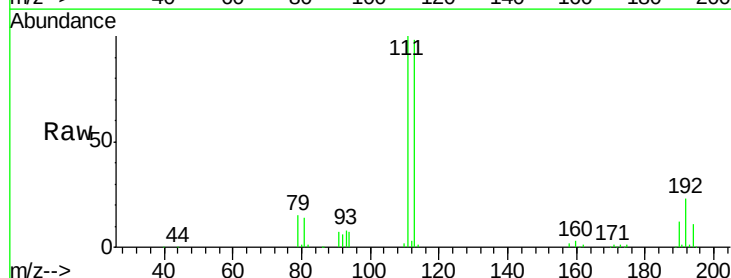
Tgt Ion:113 Resp: 403920

Ion Ratio Lower Upper

113 100

111 102.1 81.1 121.7

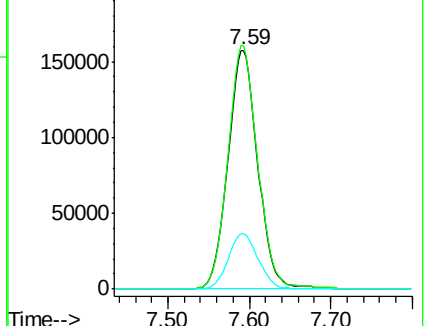
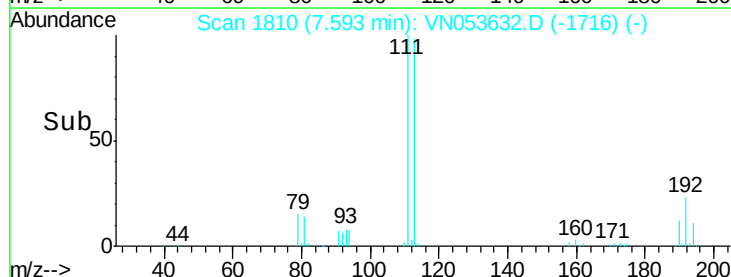
192 23.4 18.2 27.2

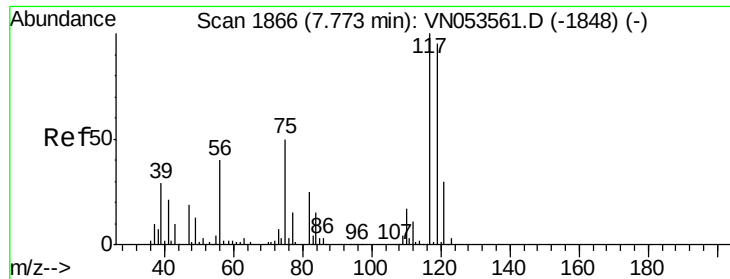


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.240 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053632.D

Acq: 6 Feb 2019 14:03

Instrument :

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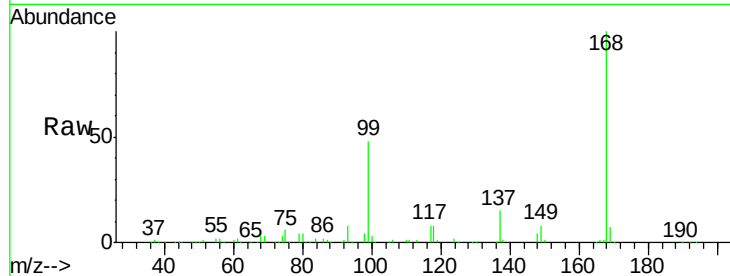
Tot Ion:117 Resp: 60050

Ion Ratio Lower Upper

117 100

119 7.0 77.2 115.8#

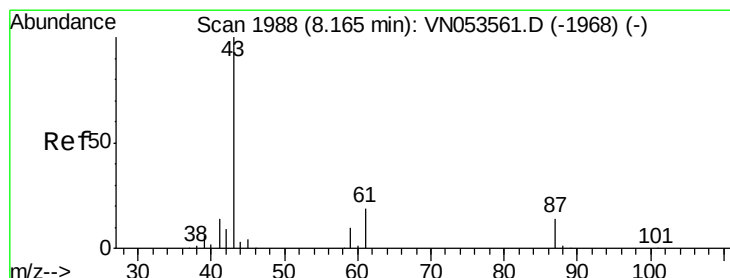
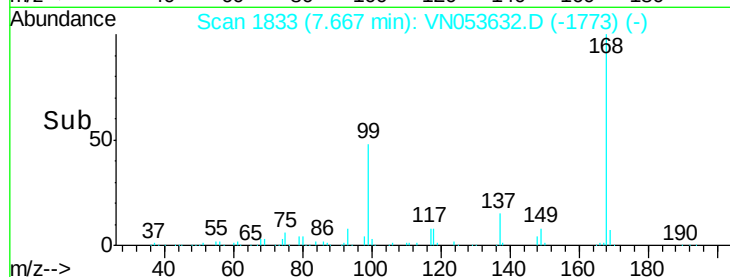
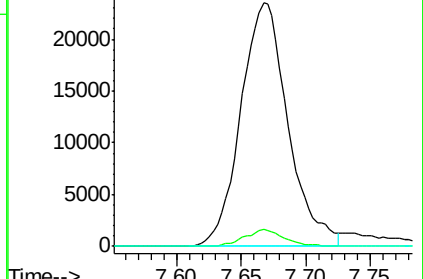
121 0.0 24.6 37.0#



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: 3.334 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN053632.D

Acq: 6 Feb 2019 14:03

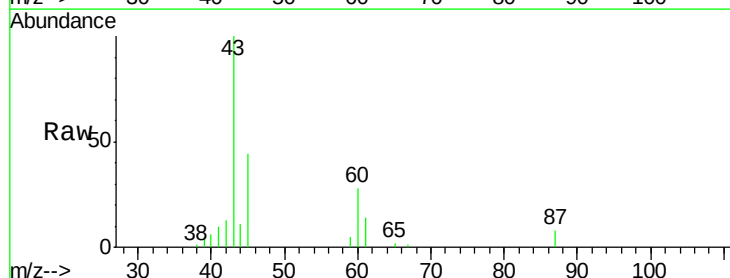
Tgt Ion: 43 Resp: 40911

Ion Ratio Lower Upper

43 100

61 15.7 23.9 35.9#

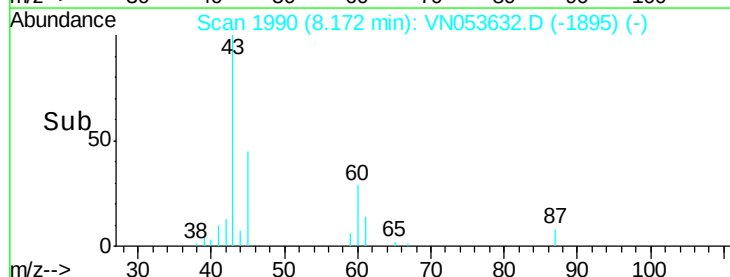
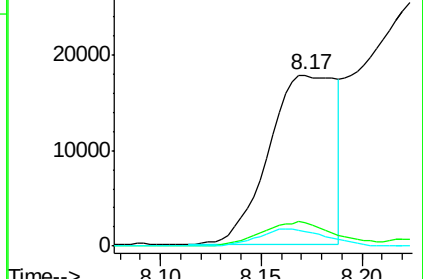
87 10.0 11.0 16.6#

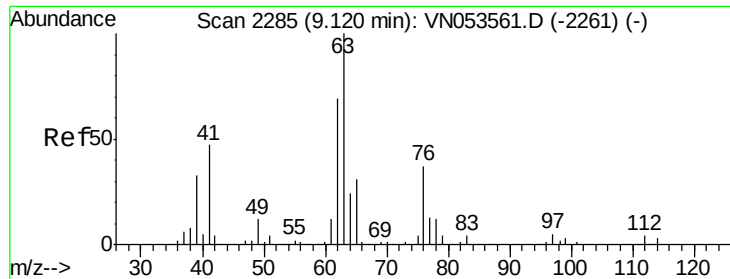


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

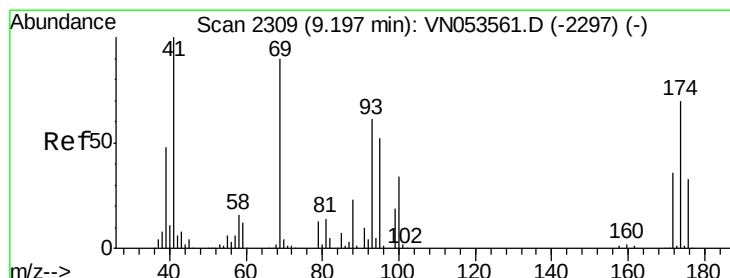
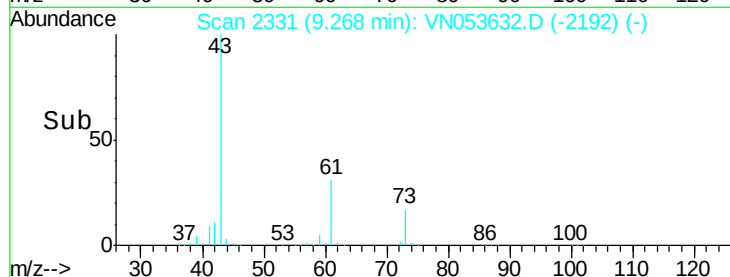
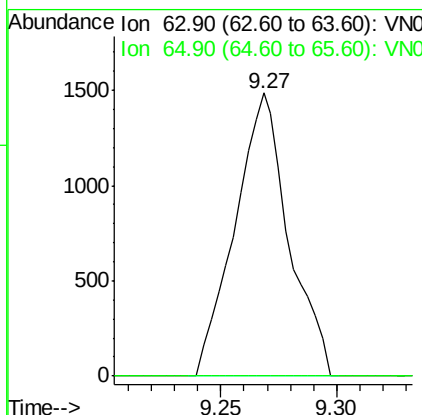
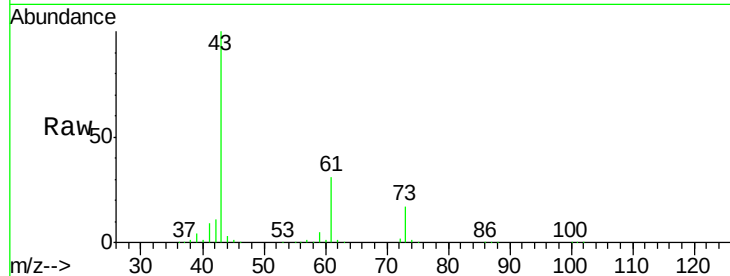




#45
 1,2-Dichloropropane
 Concen: 0.267 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN053632.D
 Acq: 6 Feb 2019 14:03

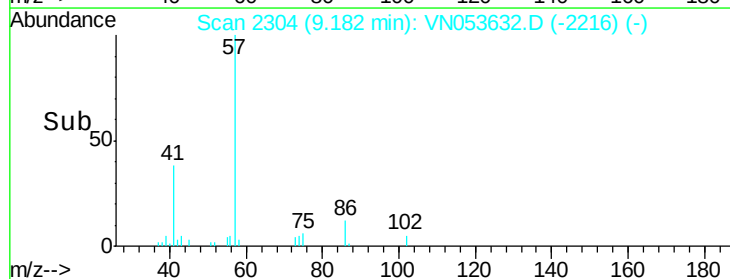
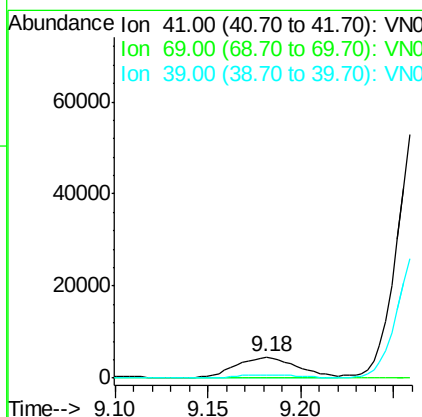
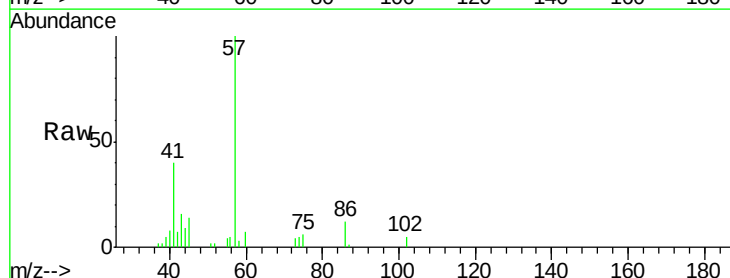
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116860ZHE#05

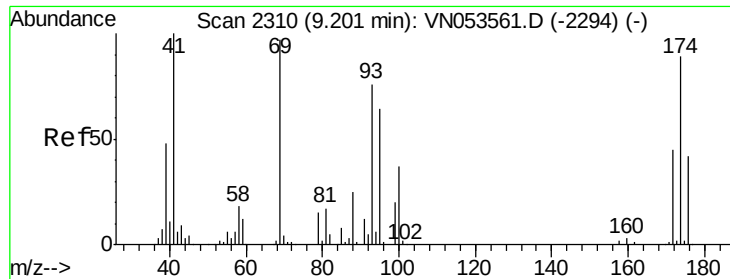
Tot Ion: 63 Resp: 2393
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.660 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN053632.D
 Acq: 6 Feb 2019 14:03

Tgt Ion: 41 Resp: 9720
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#





#49

1,4-Dioxane

Concen: 41.465 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN053632.D

Acq: 6 Feb 2019 14:03

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#05

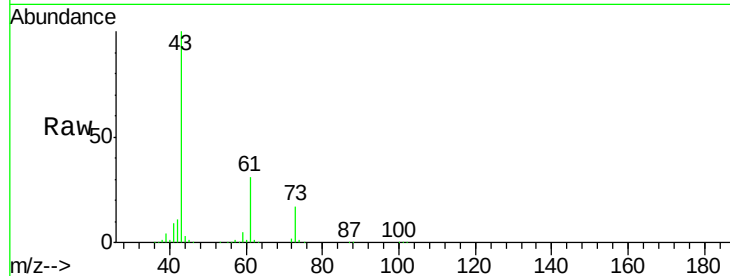
Tot Ion: 88 Resp: 209

Ion Ratio Lower Upper

88 100

43 812014.4 27.8 41.6#

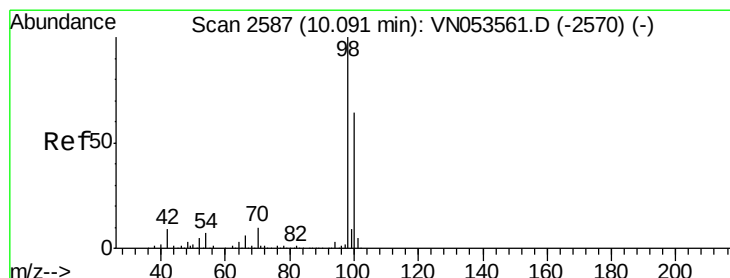
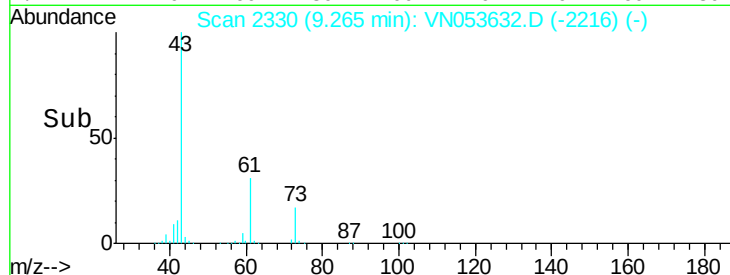
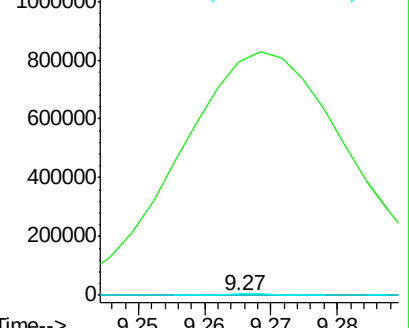
58 3793.3 56.5 84.7#



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: 41.465 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053632.D

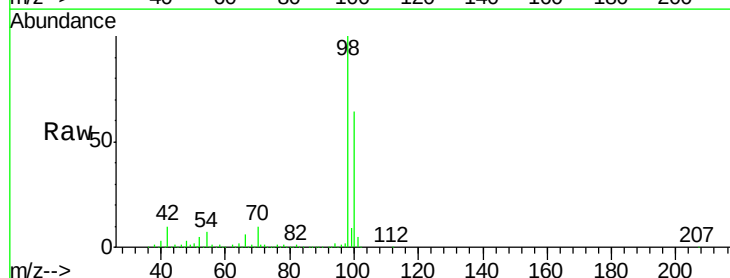
Acq: 6 Feb 2019 14:03

Tgt Ion: 98 Resp: 1515195

Ion Ratio Lower Upper

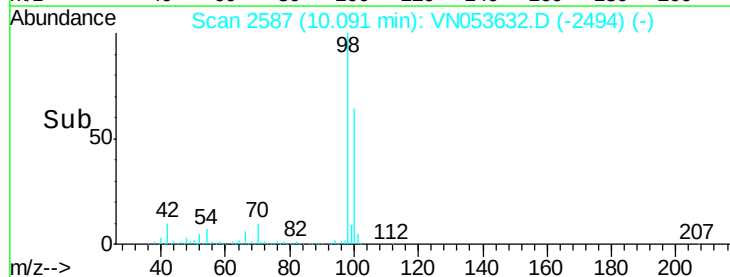
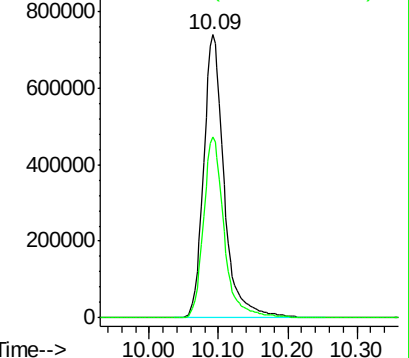
98 100

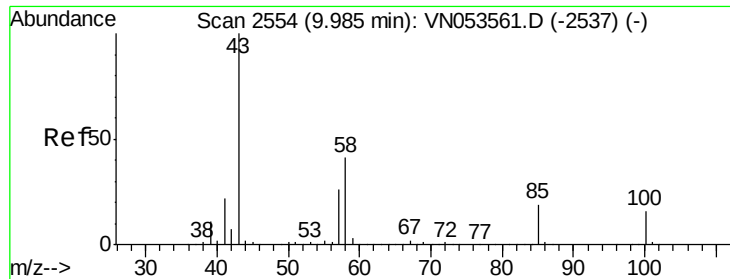
100 64.4 51.4 77.0



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: 1.801 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053632.D

Acq: 6 Feb 2019 14:03

Instrument :

MSVOA_N

ClientSampleId :

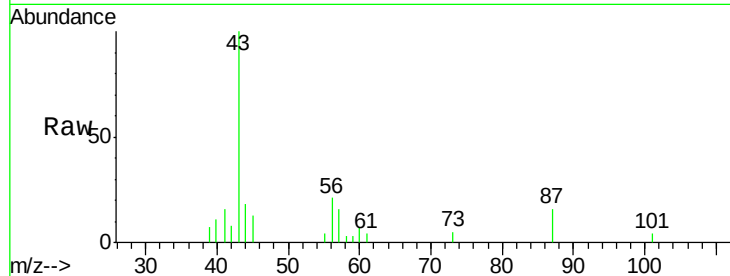
PB116860ZHE#05

Tot Ion: 43 Resp: 10860

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

10.02

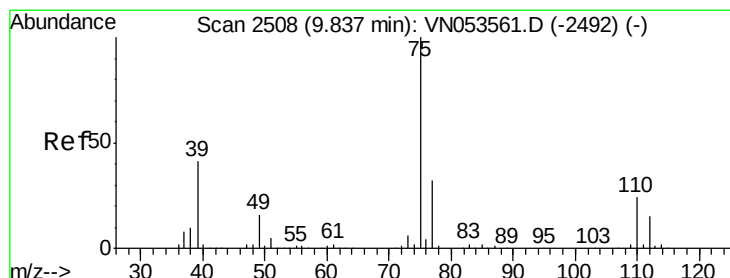
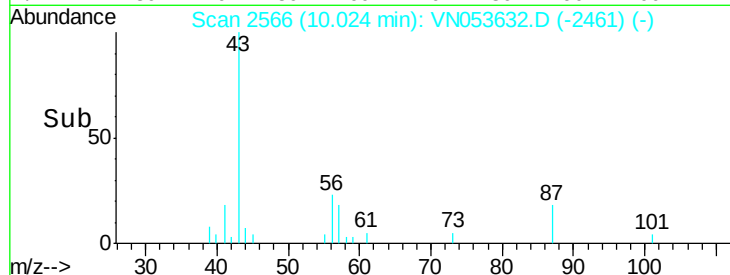
6000

4000

2000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.142 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053632.D

Acq: 6 Feb 2019 14:03

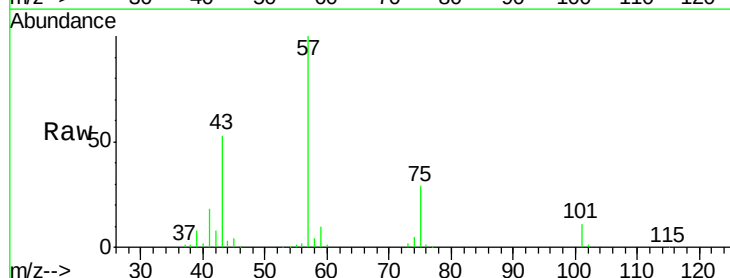
Tgt Ion: 75 Resp: 81961

Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.6#

39 26.9 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

9.90

60000

50000

40000

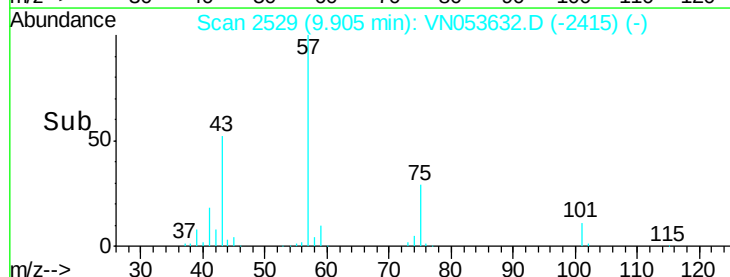
30000

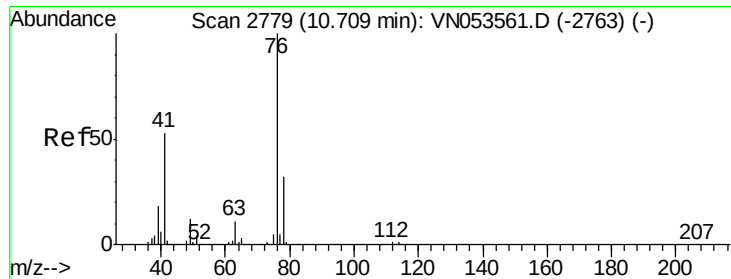
20000

10000

0

Time-->





#57

1,3-Dichloropropane

Concen: 1.183 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053632.D

Acq: 6 Feb 2019 14:03

Instrument :

MSVOA_N

ClientSampleId :

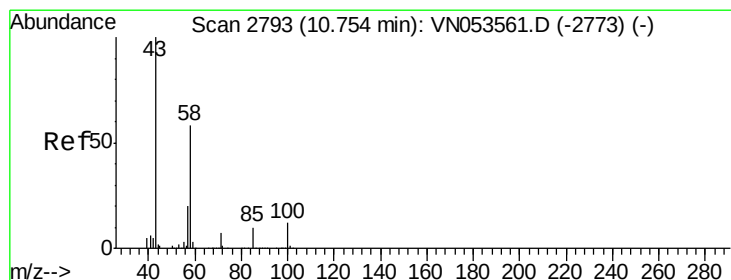
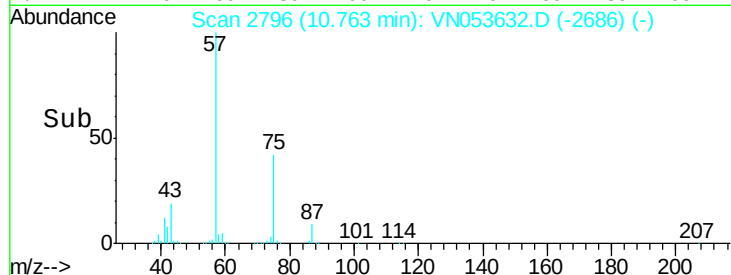
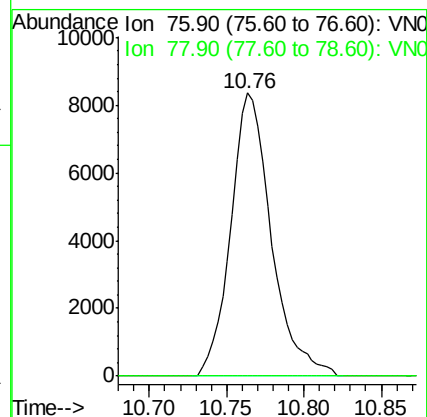
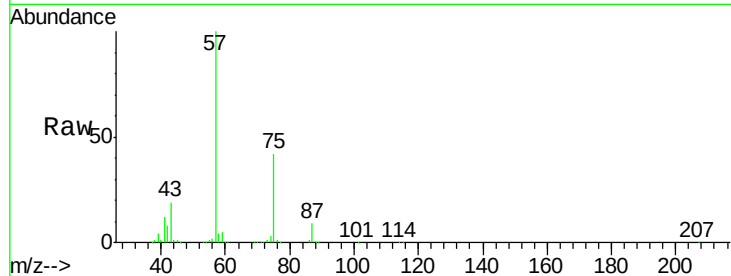
PB116860ZHE#05

Tot Ion: 76 Resp: 15173

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 49.587 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN053632.D

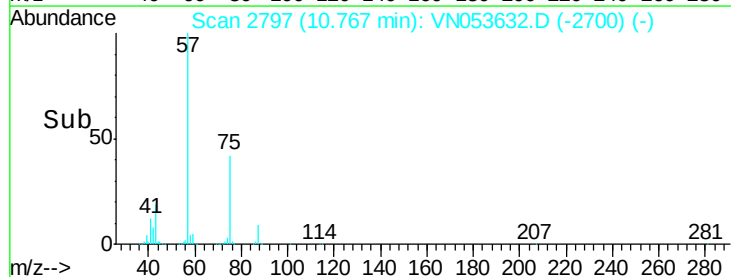
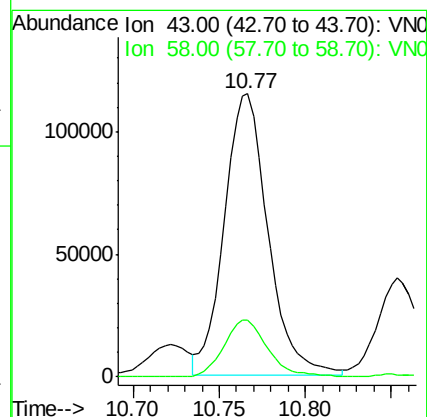
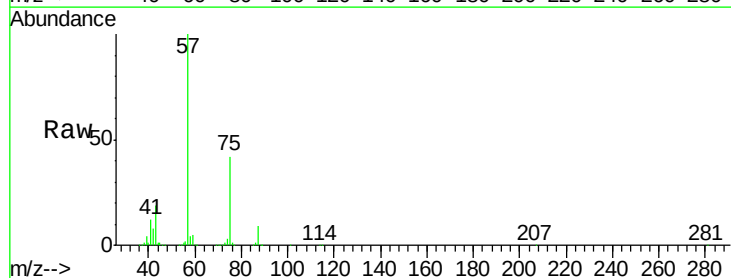
Acq: 6 Feb 2019 14:03

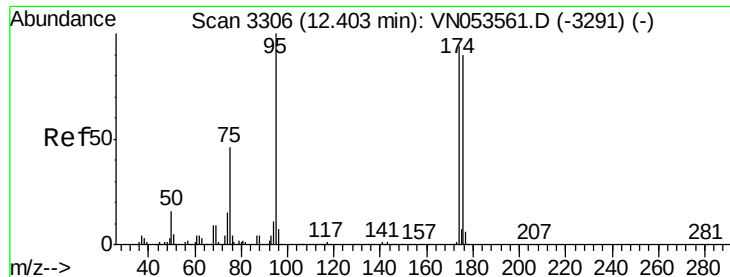
Tgt Ion: 43 Resp: 202963

Ion Ratio Lower Upper

43 100

58 20.5 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053632.D

Acq: 6 Feb 2019 14:03

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#05

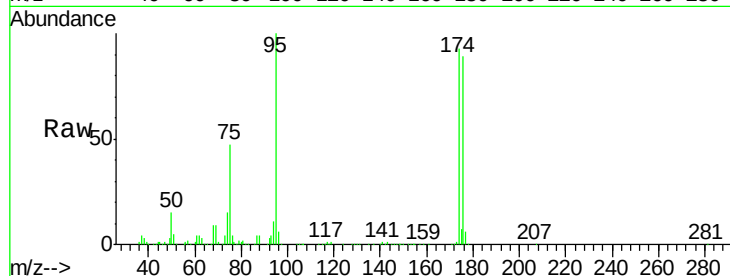
Tot Ion: 95 Resp: 505516

Ion Ratio Lower Upper

95 100

174 92.6 0.0 183.2

176 90.0 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) (-)

12.40

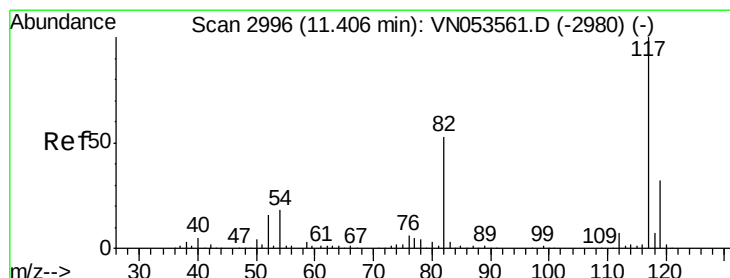
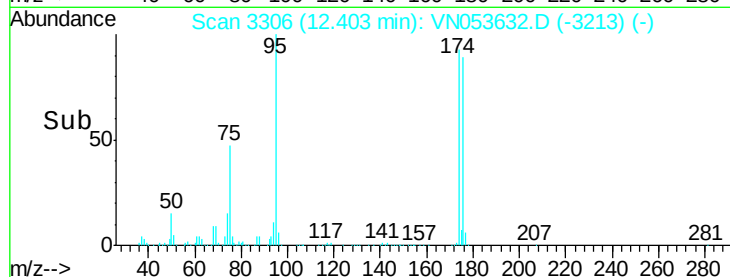
300000

200000

100000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053632.D

Acq: 6 Feb 2019 14:03

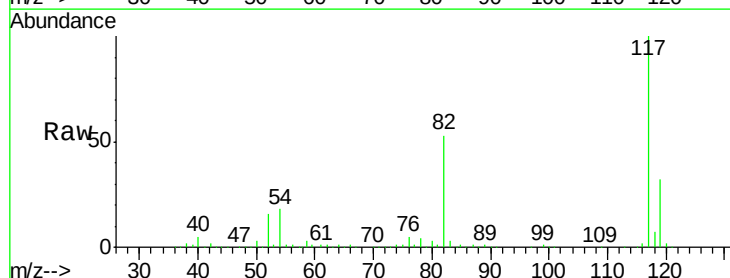
Tgt Ion: 117 Resp: 1141385

Ion Ratio Lower Upper

117 100

82 52.7 42.9 64.3

119 32.4 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) (-)

11.41

800000

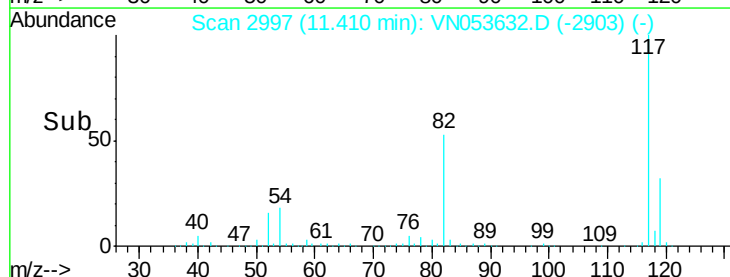
600000

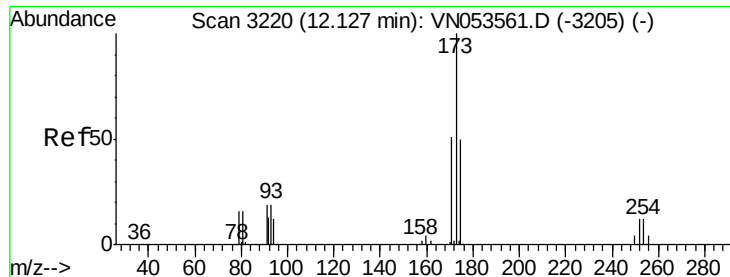
400000

200000

0

Time--> 11.30 11.40 11.50

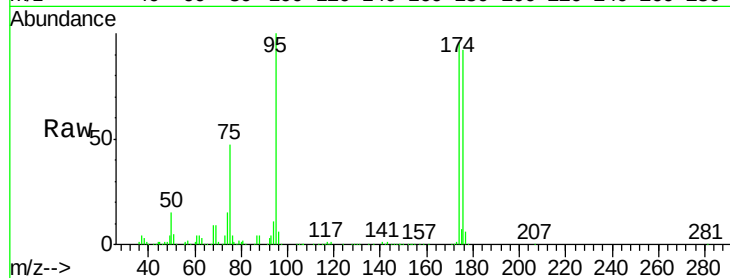




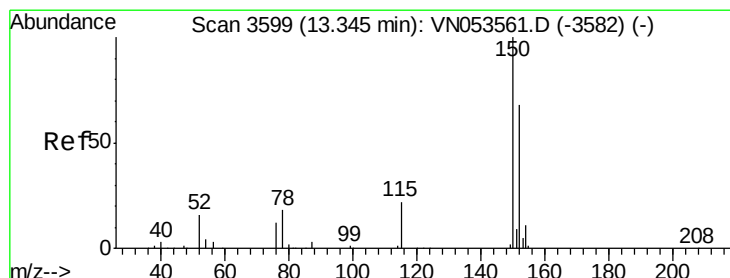
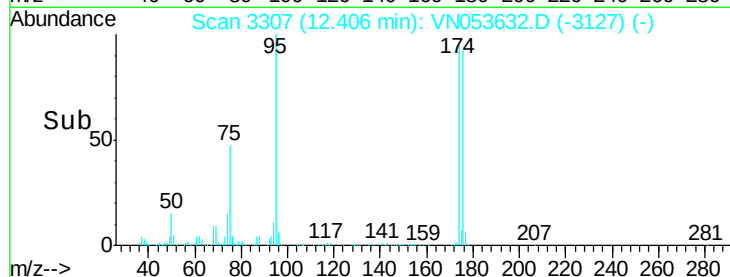
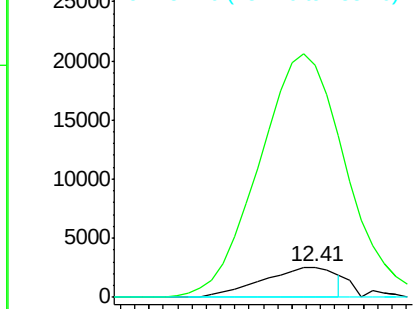
#71
Bromoform
Concen: 0.623 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN053632.D
Acq: 6 Feb 2019 14:03

Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#05

Tot Ion:173 Resp: 3615
Ion Ratio Lower Upper
173 100
175 812.1 24.6 74.0#
254 0.0 0.2 0.2#

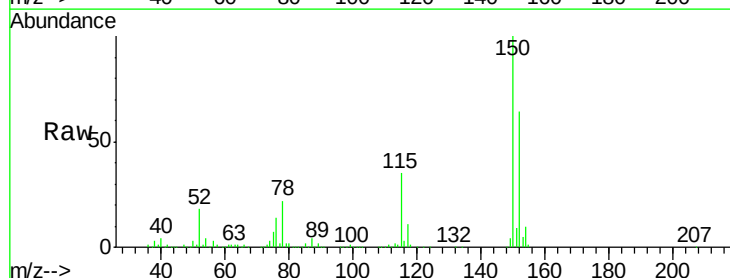


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

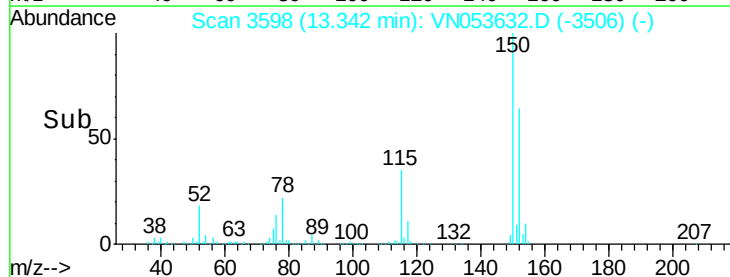
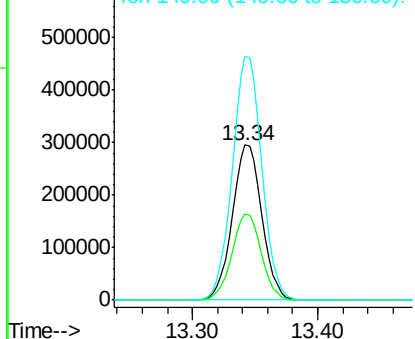


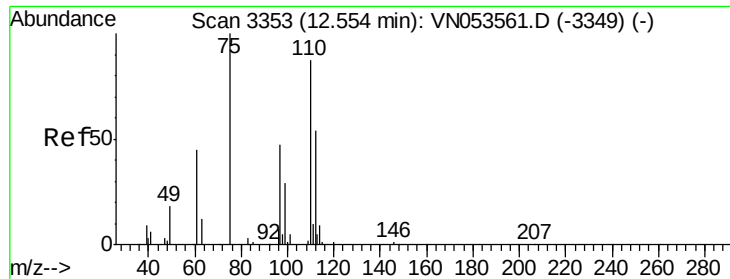
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053632.D
Acq: 6 Feb 2019 14:03

Tgt Ion:152 Resp: 482513
Ion Ratio Lower Upper
152 100
115 55.1 27.8 83.4
150 156.8 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





#76

1,2,3-Trichloropropane

Concen: 38.348 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053632.D

Acq: 6 Feb 2019 14:03

Instrument :

MSVOA_N

ClientSampleId :

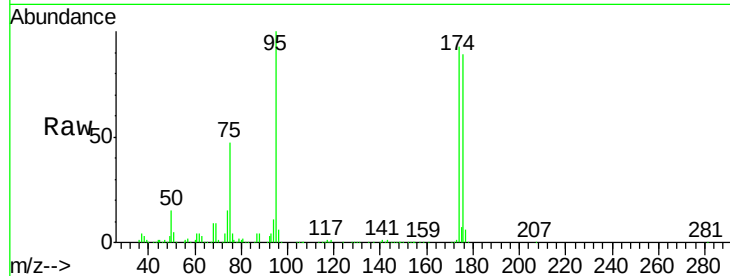
PB116860ZHE#05

Tot Ion: 75 Resp: 237668

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN053561.D (-3349) (-)

12.40

150000

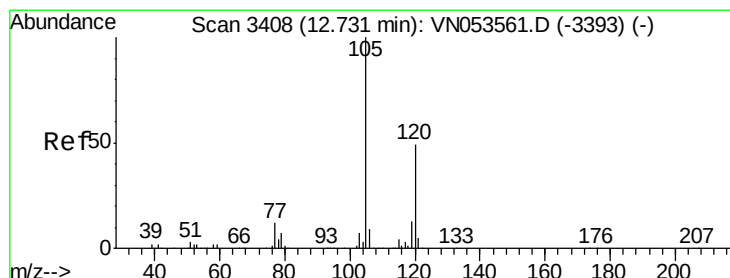
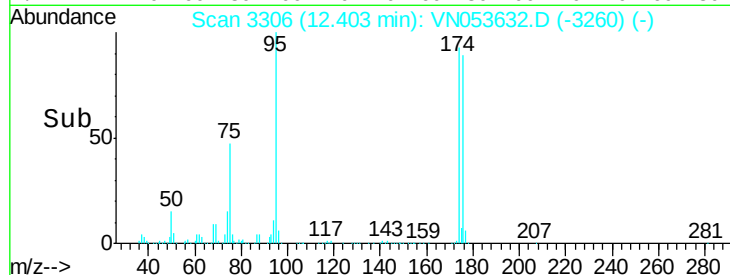
100000

50000

0

Time-->

12.35 12.40 12.45



#80

1,3,5-Trimethylbenzene

Concen: 0.297 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053632.D

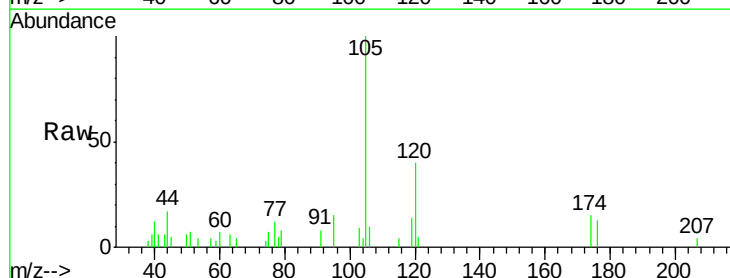
Acq: 6 Feb 2019 14:03

Tgt Ion: 105 Resp: 8340

Ion Ratio Lower Upper

105 100

120 47.3 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053561.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053561.D (-3393) (-)

12.73

6000

5000

4000

3000

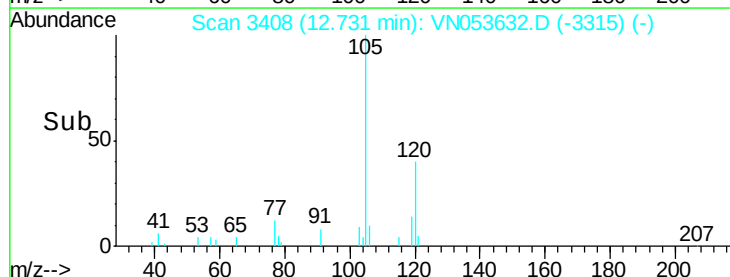
2000

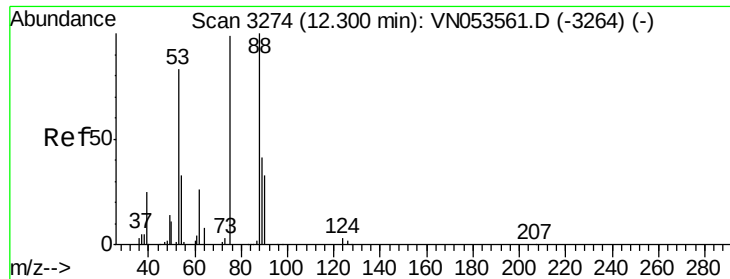
1000

0

Time-->

12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 107.833 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053632.D

Acq: 6 Feb 2019 14:03

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#05

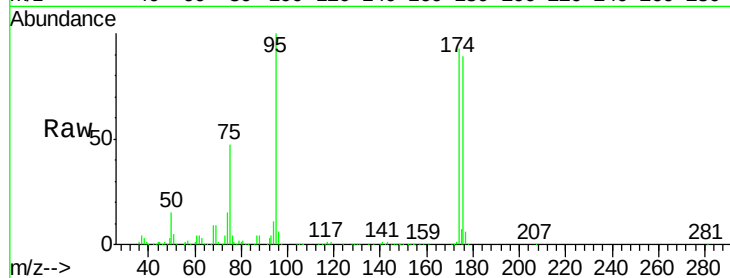
Tot Ion: 75 Resp: 237668

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

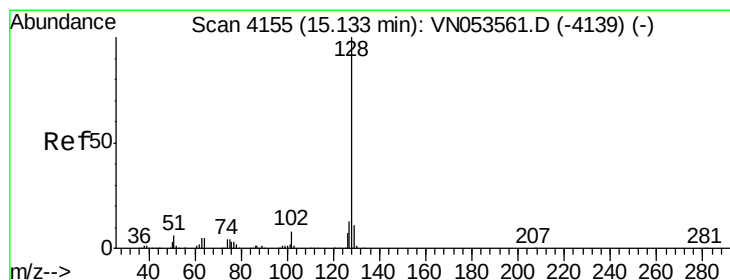
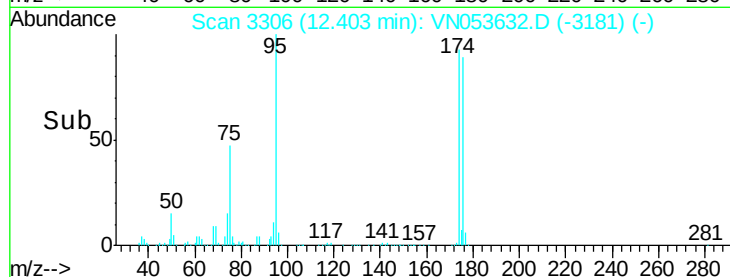
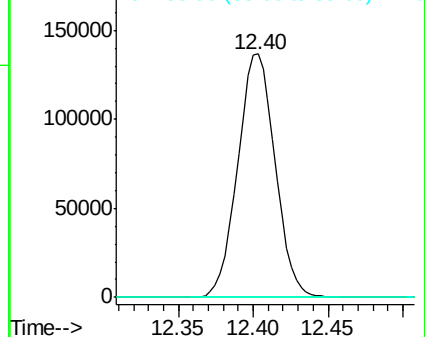
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053632.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053632.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053632.D (-3181) (-)



#95

Naphthalene

Concen: 1.747 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053632.D

Acq: 6 Feb 2019 14:03

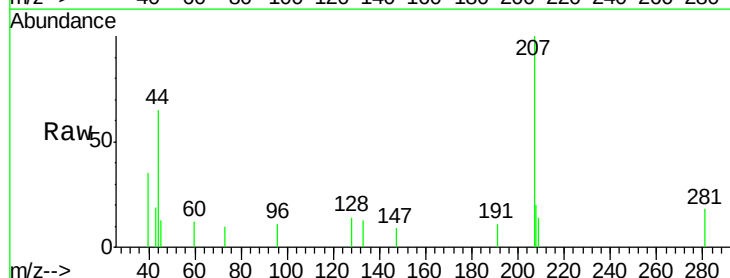
Tgt Ion: 128 Resp: 241

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): VN053632.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN053632.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN053632.D (-4061) (-)

