

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021319\
 Data File : VN053749.D
 Acq On : 13 Feb 2019 12:34
 Operator : JC/SP
 Sample : PB117063TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117063TB

Quant Time: Feb 14 00:20:43 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	677814	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1159114	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1075585	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	420406	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	373472	54.92	ug/l	0.00
Spiked Amount			Recovery	=	109.84%	
35) Dibromofluoromethane	7.59	113	375571	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
50) Toluene-d8	10.09	98	1416686	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
62) 4-Bromofluorobenzene	12.40	95	459914	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	

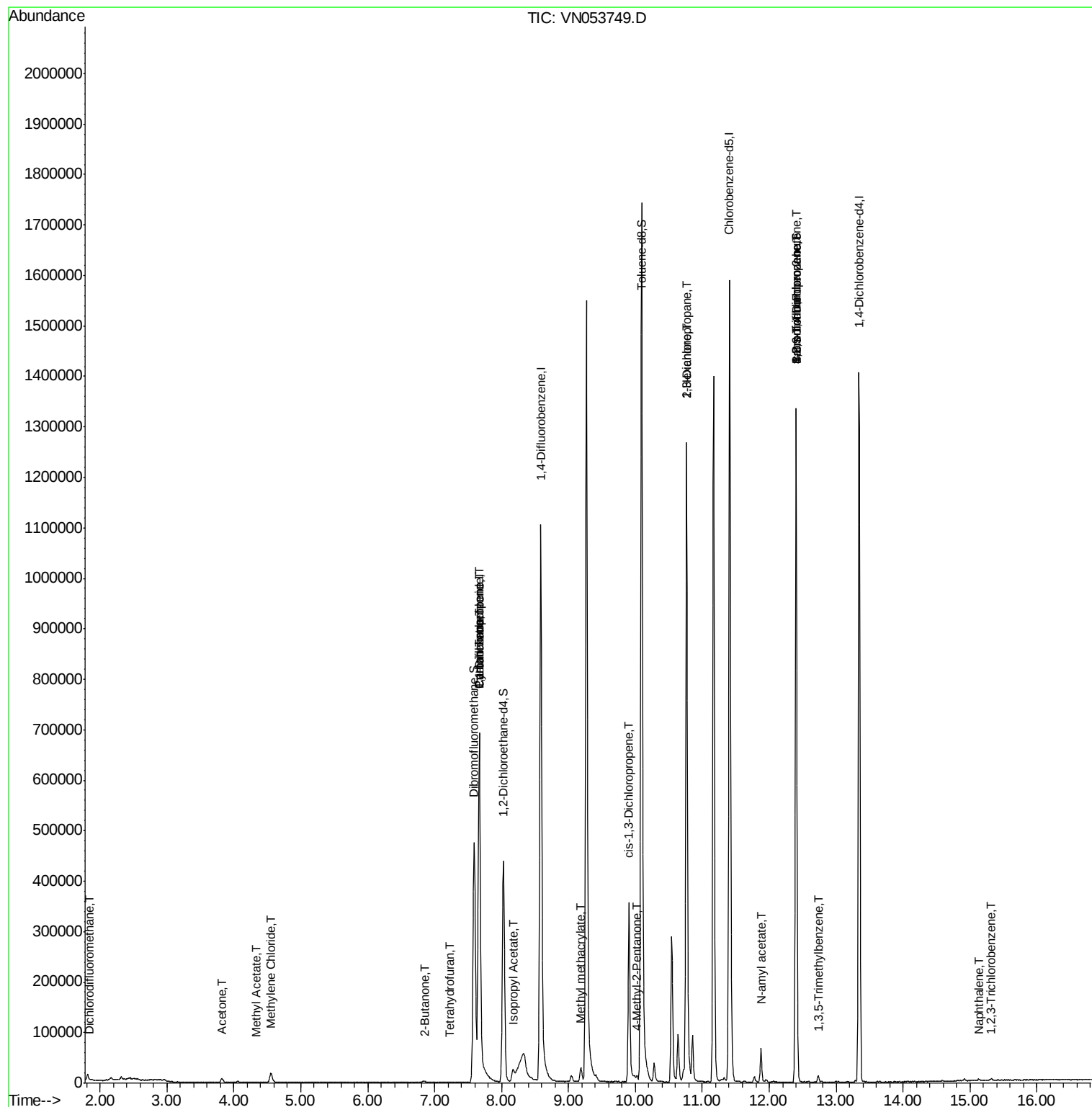
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	96	0.350	ug/l #	42
16) Acetone	3.82	43	13246	7.594	ug/l	94
18) Methyl Acetate	4.33	43	2358	0.457	ug/l #	79
20) Methylene Chloride	4.55	84	13430	1.835	ug/l	94
25) 2-Butanone	6.85	43	4848	1.949	ug/l	96
29) Tetrahydrofuran	7.22	42	1199	0.751	ug/l #	56
31) Cyclohexane	7.67	56	10406	0.738	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41414	3.964	ug/l #	49
38) Carbon Tetrachloride	7.67	117	56518	5.369	ug/l #	17
43) Isopropyl Acetate	8.17	43	35555	3.155	ug/l #	81
48) Methyl methacrylate	9.18	41	10669	1.983	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	8908	1.609	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	74802	6.103	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	15021	1.275	ug/l #	43
59) 2-Hexanone	10.76	43	191614	50.966	ug/l #	51
71) Bromoform	12.40	173	3132	0.573	ug/l #	1
74) N-amyl acetate	11.88	43	20137	2.834	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	210942	39.064	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	6562	0.268	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	210942	109.846	ug/l #	15
95) Naphthalene	15.14	128	3768	1.933	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.31	180	1676	0.230	ug/l	86

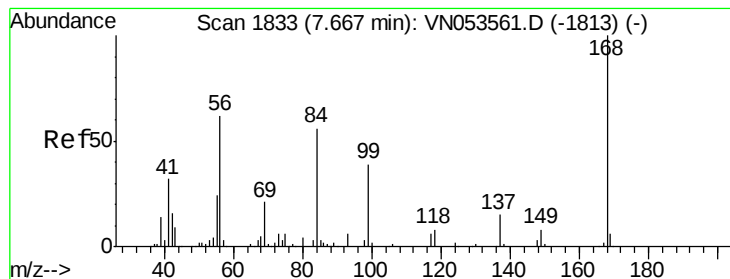
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN053749.D

Acq: 13 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

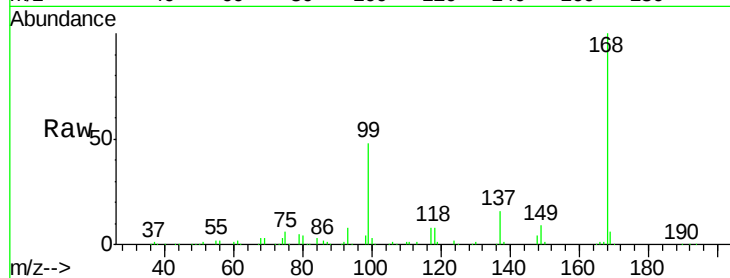
PB117063TB

Tot Ion:168 Resp: 677814

Ion Ratio Lower Upper

168 100

99 47.8 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

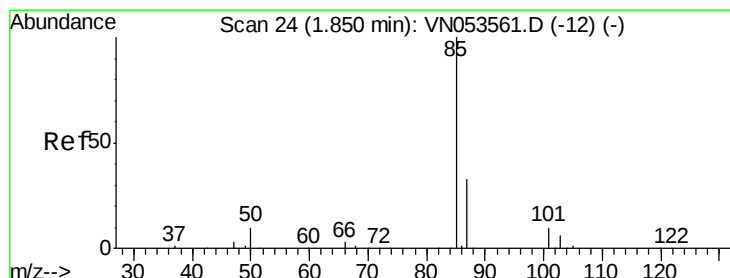
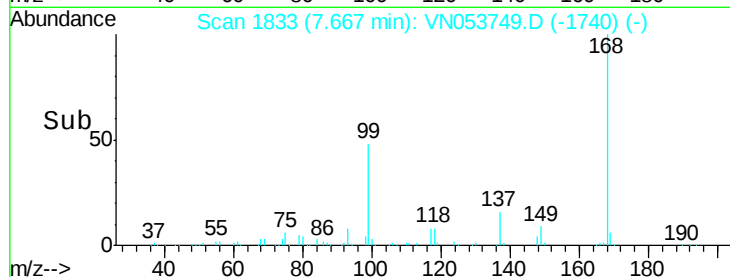
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.350 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN053749.D

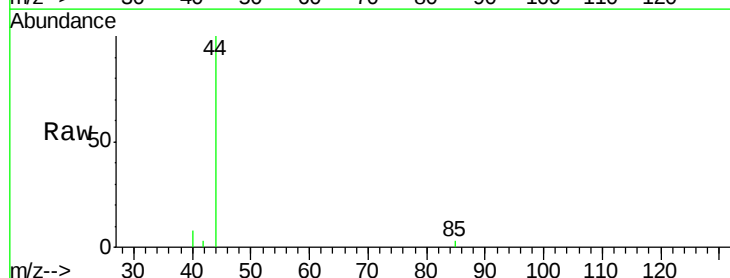
Acq: 13 Feb 2019 12:34

Tgt Ion: 85 Resp: 96

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

200

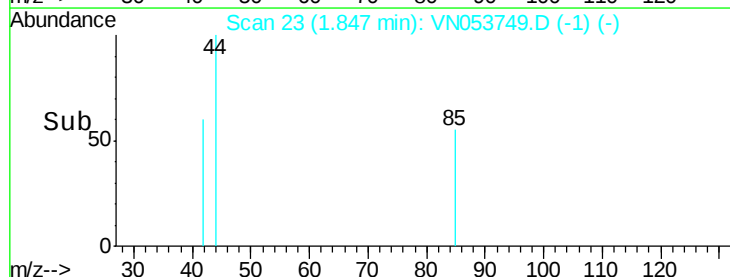
150

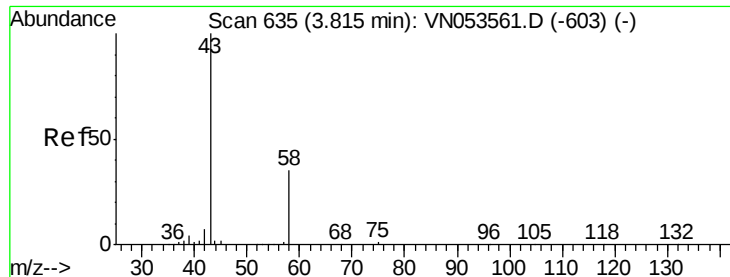
100

50

0

Time-->





#16

Acetone

Concen: 7.594 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampled :

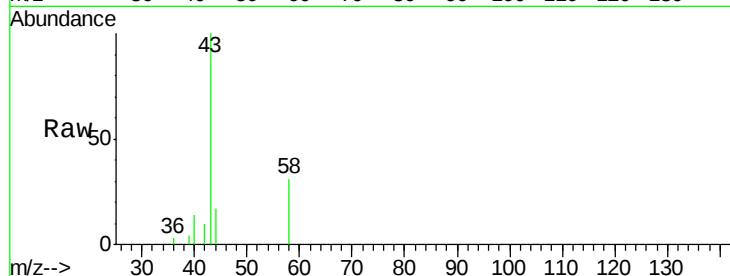
PB117063TB

Tot Ion: 43 Resp: 13246

Ion Ratio Lower Upper

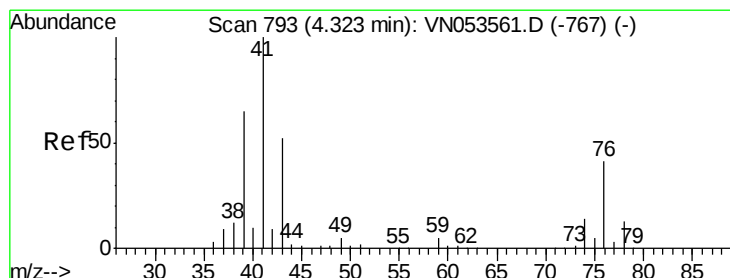
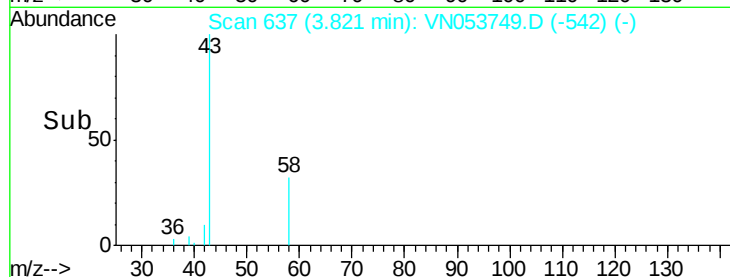
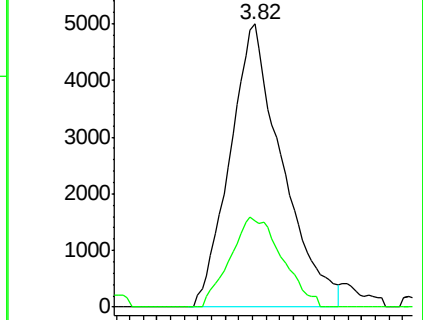
43 100

58 30.7 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.457 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN053749.D

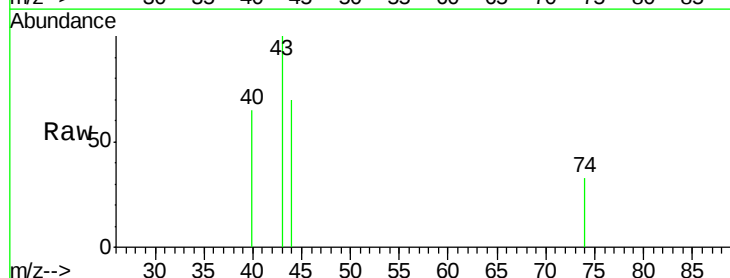
Acq: 13 Feb 2019 12:34

Tgt Ion: 43 Resp: 2358

Ion Ratio Lower Upper

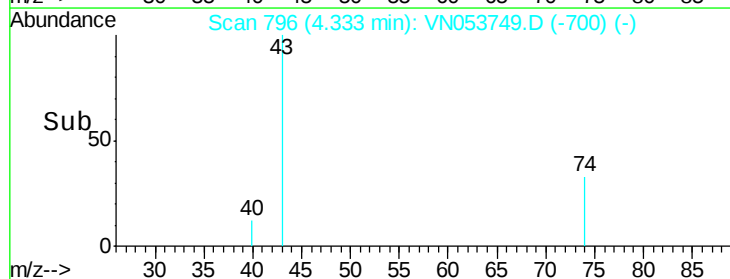
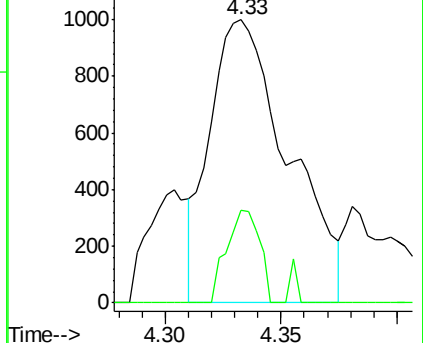
43 100

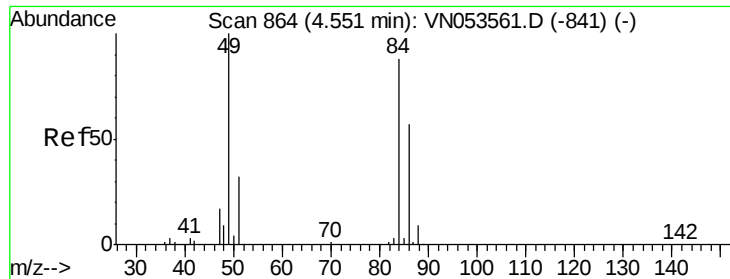
74 13.7 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

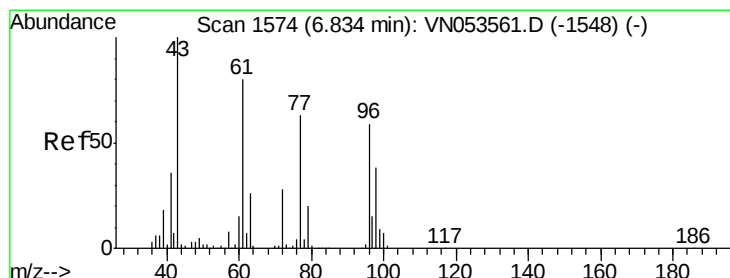
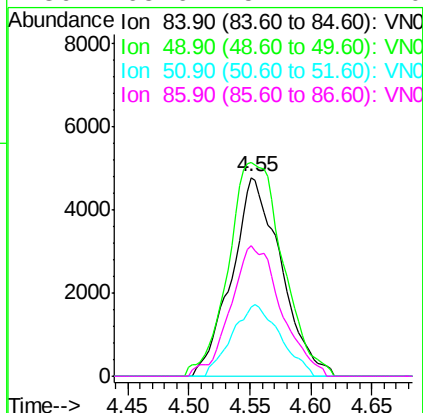
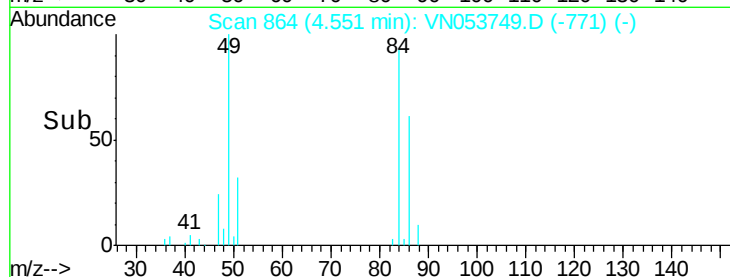
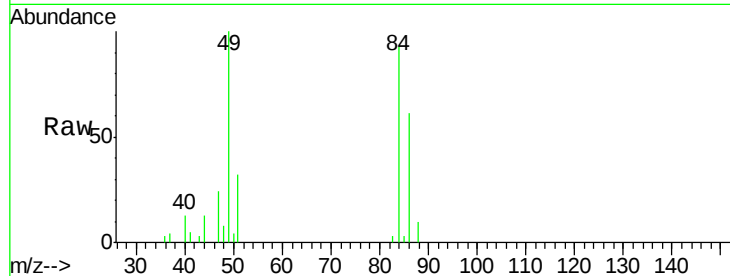




#20
Methvlene Chloride
Concen: 1.835 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053749.D
Acq: 13 Feb 2019 12:34

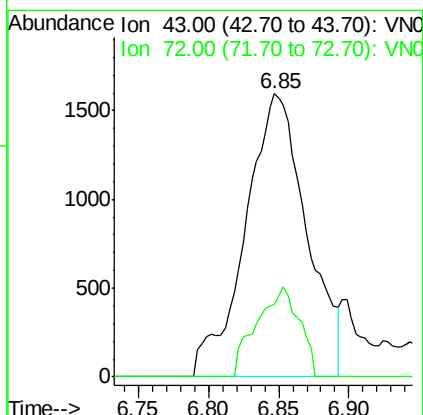
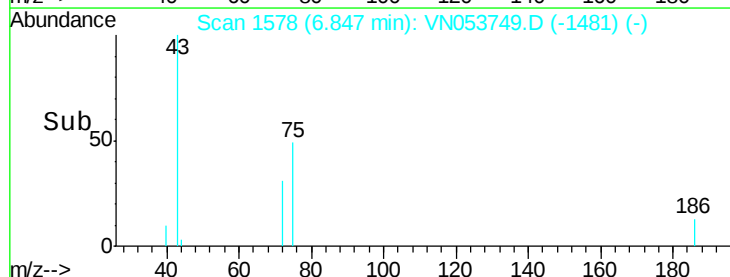
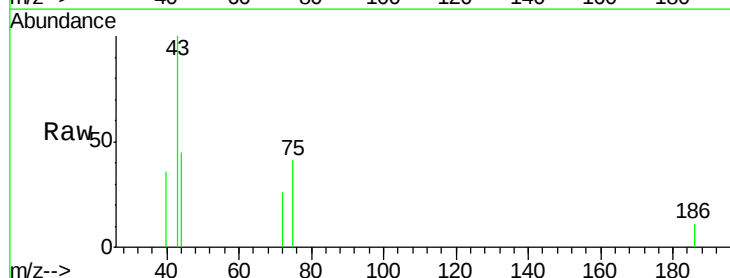
Instrument :
MSVOA_N
ClientSampleId :
PB117063TB

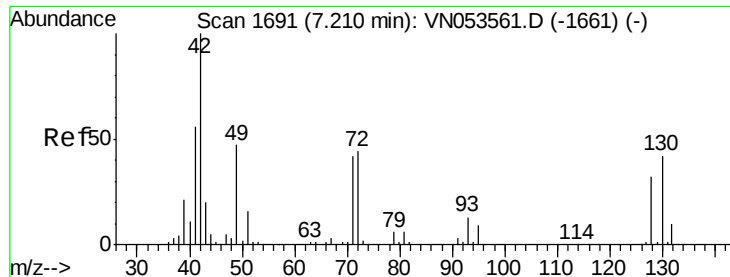
Tot Ion:	84	Resp:	13430
Ion	Ratio	Lower	Upper
84	100		
49	107.5	94.3	141.5
51	34.9	29.4	44.2
86	65.6	51.4	77.0



#25
2-Butanone
Concen: 1.949 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN053749.D
Acq: 13 Feb 2019 12:34

Tgt Ion:	43	Resp:	4848
Ion	Ratio	Lower	Upper
43	100		
72	25.5	22.0	33.0





#29

Tetrahydrofuran

Concen: 0.751 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

PB117063TB

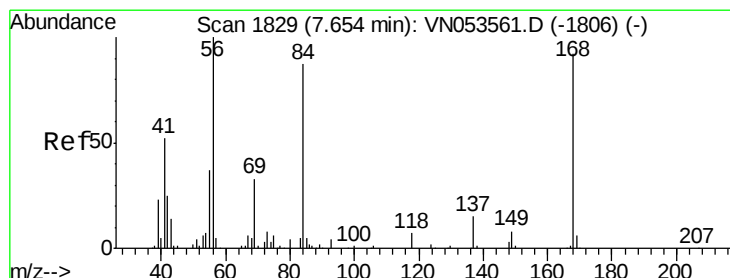
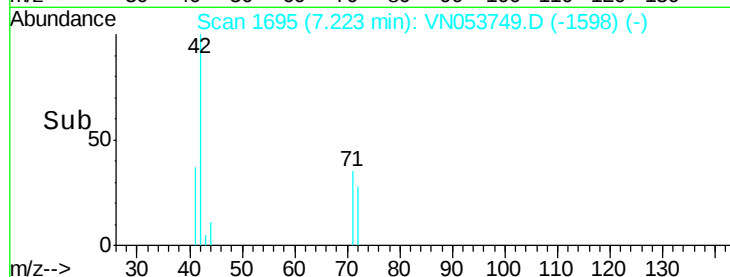
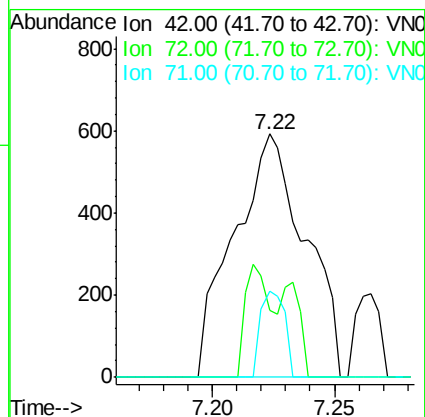
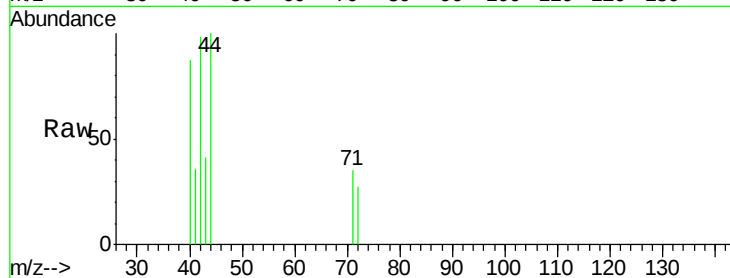
Tot Ion: 42 Resp: 1199

Ion Ratio Lower Upper

42 100

72 16.8 35.2 52.8#

71 11.8 33.0 49.4#



#31

Cyclohexane

Concen: 0.738 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

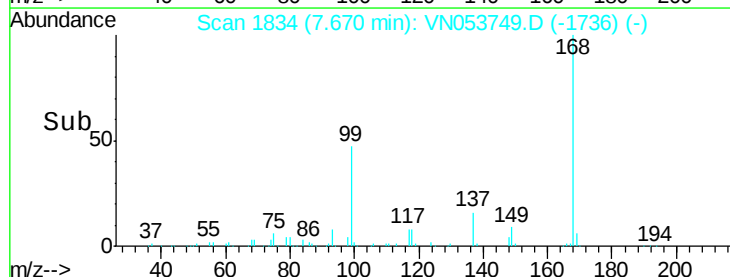
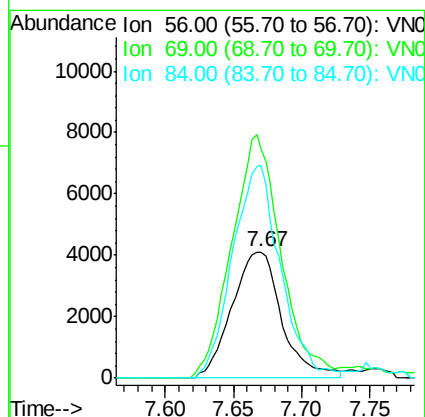
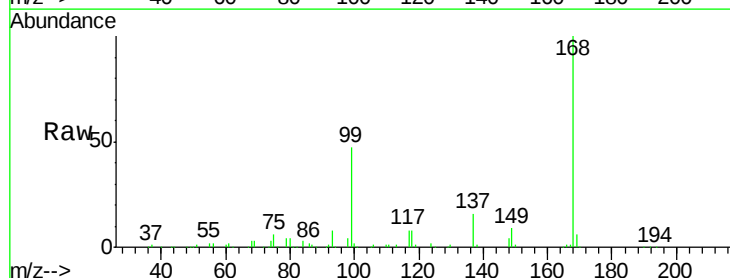
Tgt Ion: 56 Resp: 10406

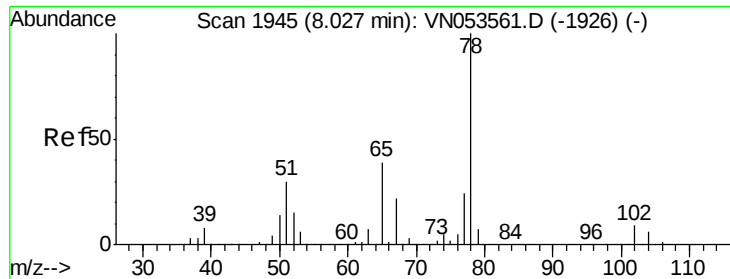
Ion Ratio Lower Upper

56 100

69 182.3 26.4 39.6#

84 168.2 67.9 101.9#

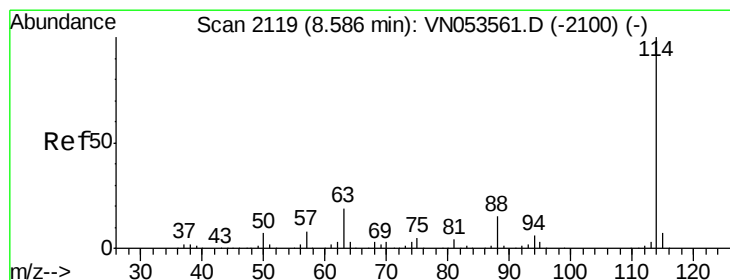
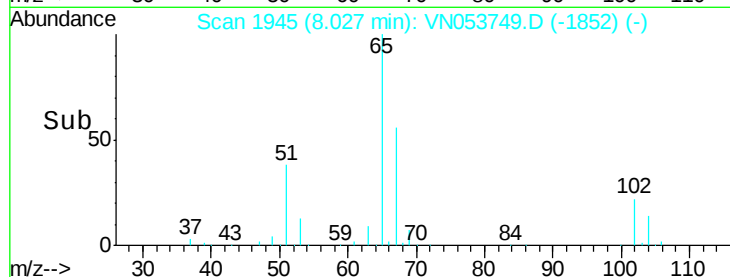
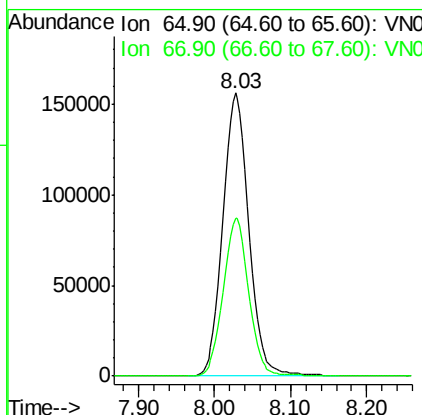
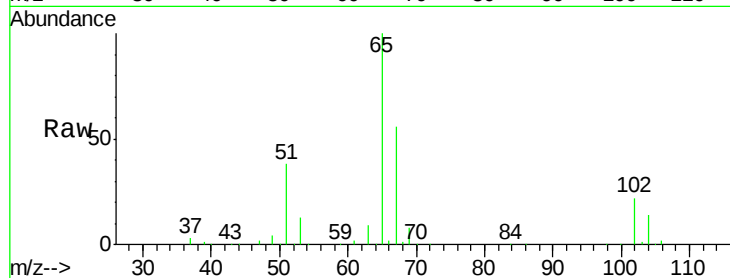




#33
 1,2-Dichloroethane-d4
 Concen: 54.924 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053749.D
 Acq: 13 Feb 2019 12:34

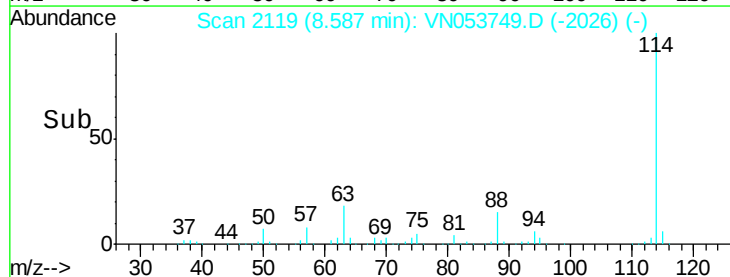
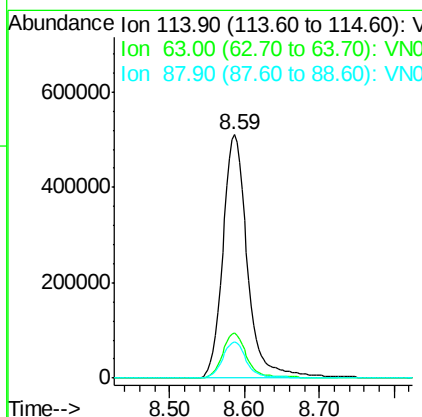
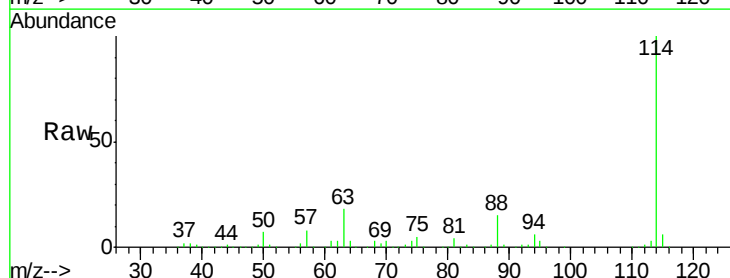
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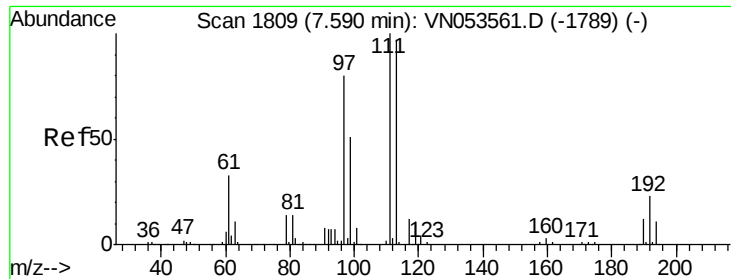
Tot Ion: 65 Resp: 373472
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053749.D
 Acq: 13 Feb 2019 12:34

Tgt Ion: 114 Resp: 1159114
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 38.6
 88 14.9 0.0 30.4

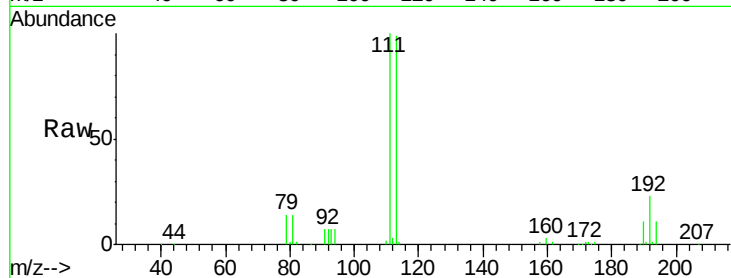




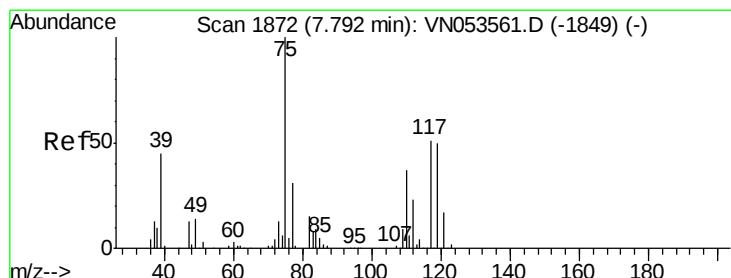
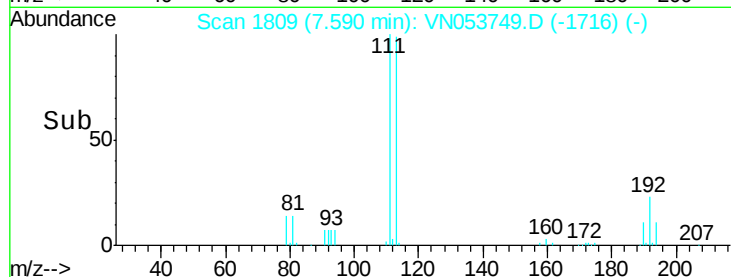
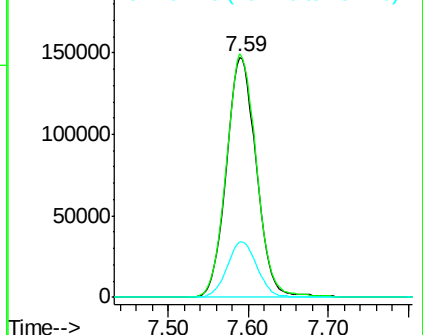
#35
 Dibromofluoromethane
 Concen: 51.279 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053749.D
 Acq: 13 Feb 2019 12:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117063TB

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.1	121.7
192	23.2	18.2	27.2

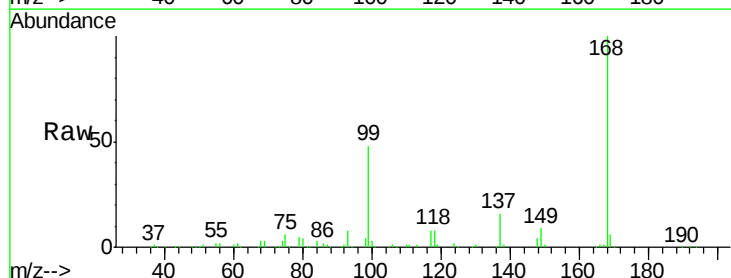


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

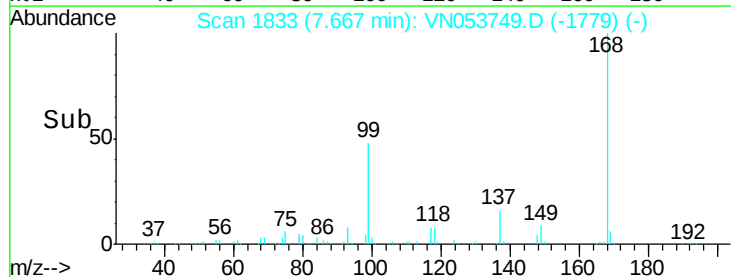
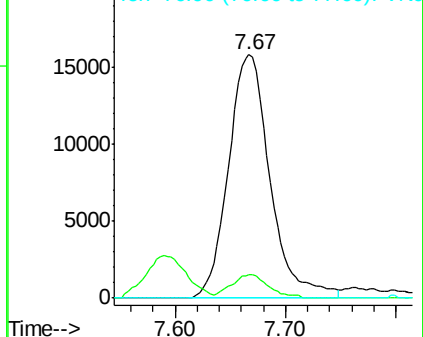


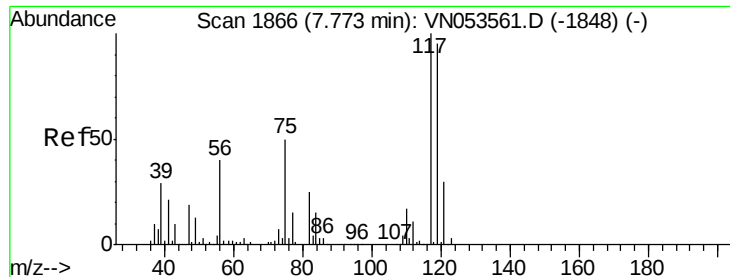
#36
 1,1-Dichloropropene
 Concen: 3.964 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053749.D
 Acq: 13 Feb 2019 12:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.1	54.3#
77	0.0	25.1	37.7#



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: 5.369 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampled :

PB117063TB

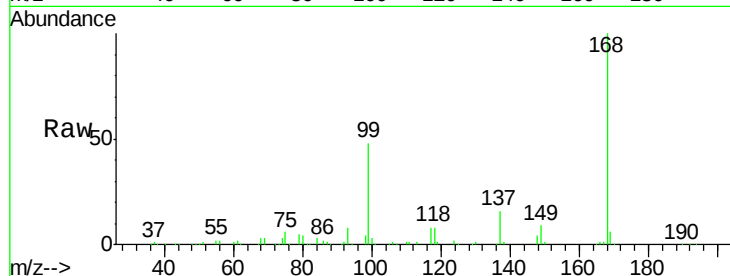
Tot Ion:117 Resp: 56518

Ion Ratio Lower Upper

117 100

119 6.5 77.2 115.8#

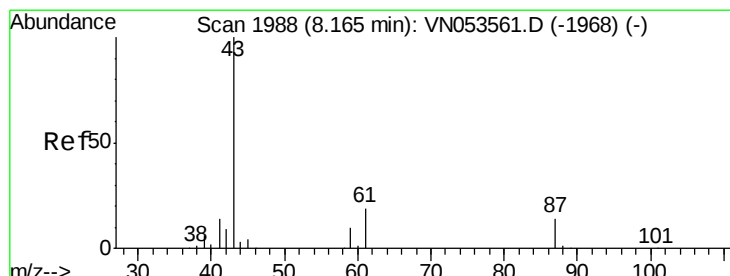
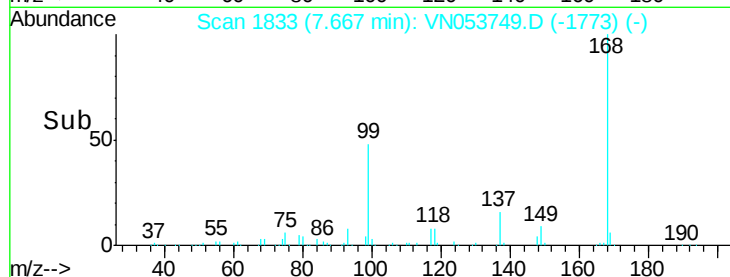
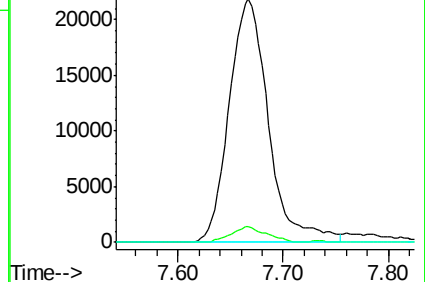
121 0.0 24.6 37.0#



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: 3.155 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

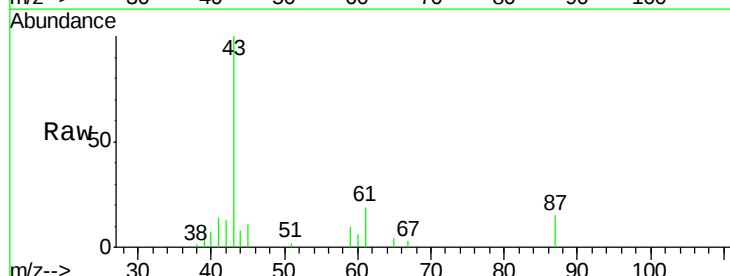
Tgt Ion: 43 Resp: 35555

Ion Ratio Lower Upper

43 100

61 16.6 23.9 35.9#

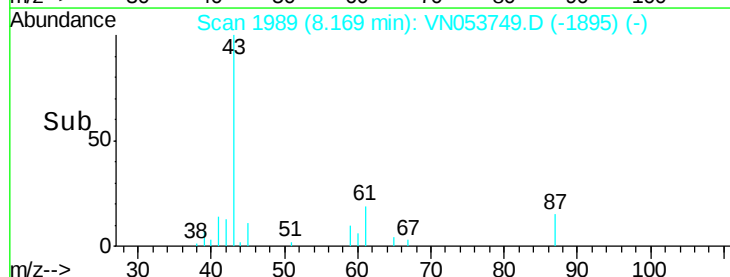
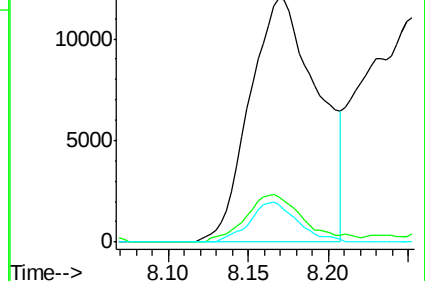
87 11.5 11.0 16.6

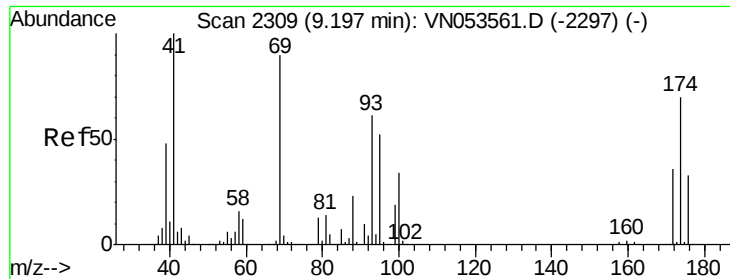


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

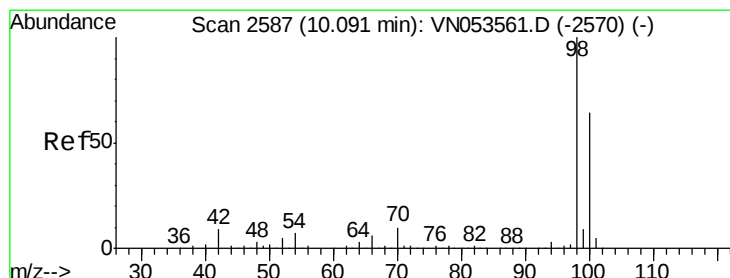
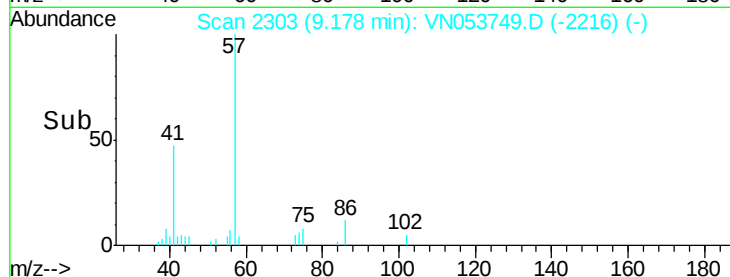
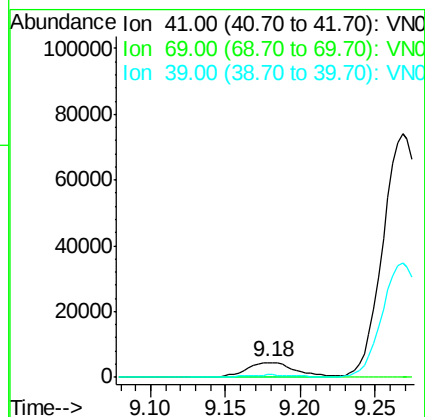
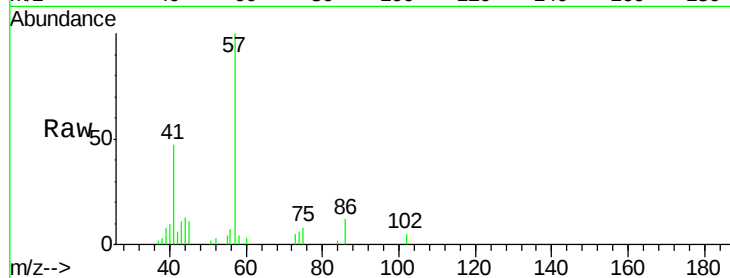




#48
Methvl methacrylate
Concen: 1.983 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053749.D
Acq: 13 Feb 2019 12:34

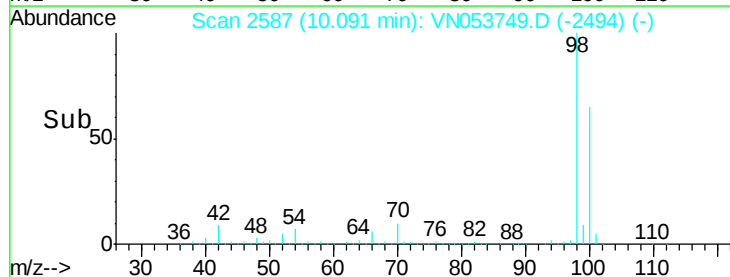
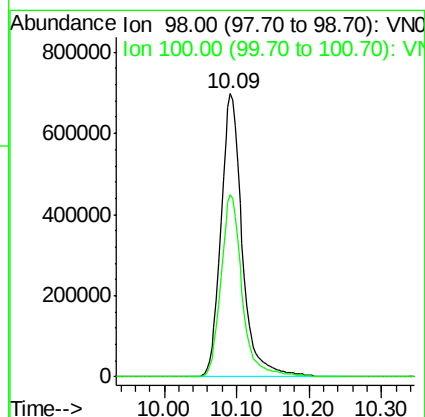
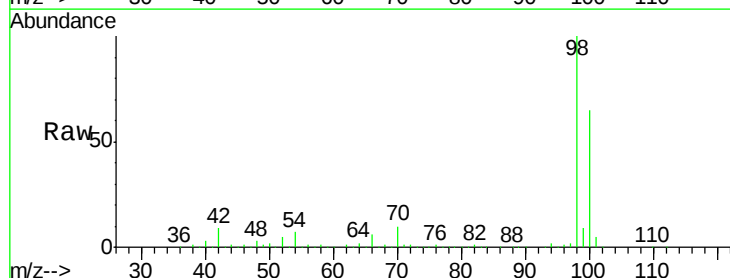
Instrument :
MSVOA_N
ClientSampleId :
PB117063TB

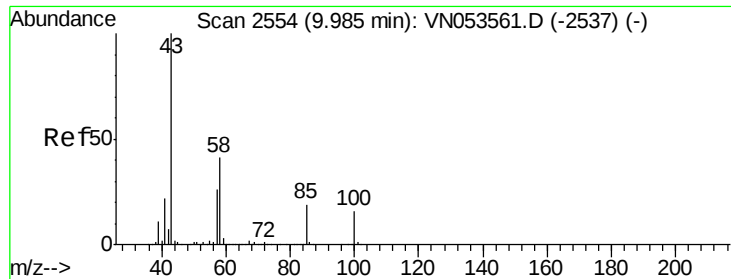
Tot Ion: 41 Resp: 10669
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#



#50
Toluene-d8
Concen: 51.515 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053749.D
Acq: 13 Feb 2019 12:34

Tgt Ion: 98 Resp: 1416686
Ion Ratio Lower Upper
98 100
100 64.1 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 1.609 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampled :

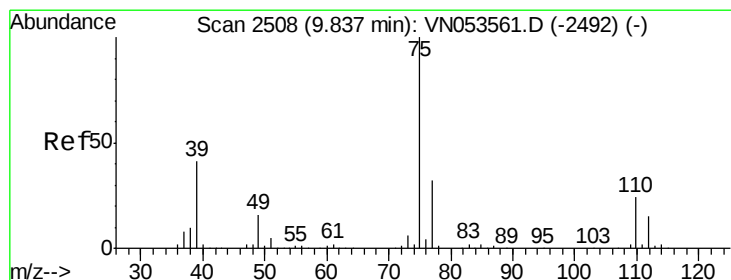
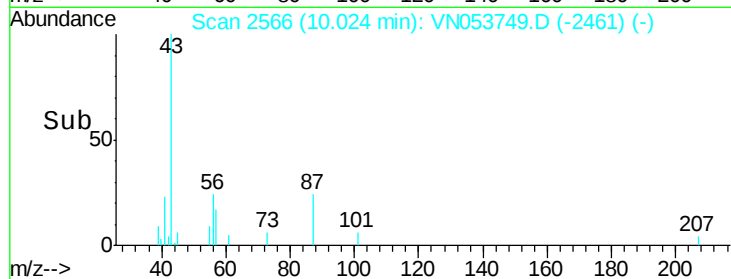
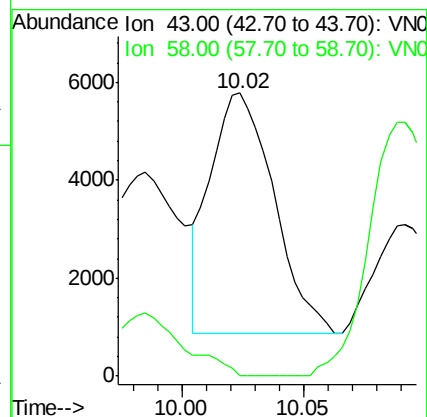
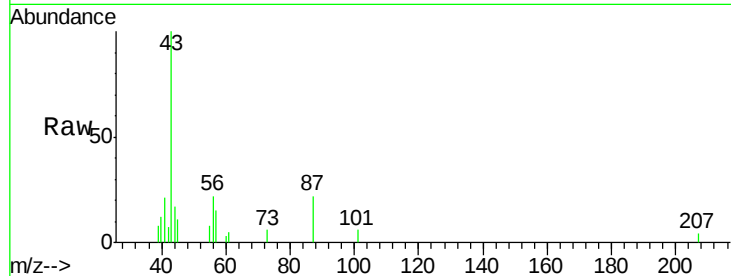
PB117063TB

Tot Ion: 43 Resp: 8908

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



#54

cis-1,3-Dichloropropene

Concen: 6.103 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

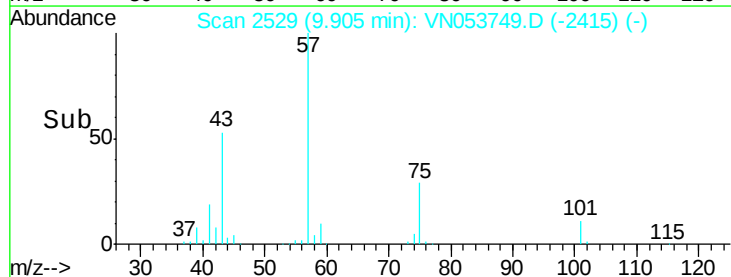
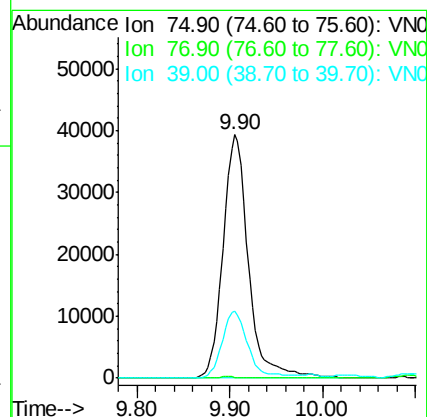
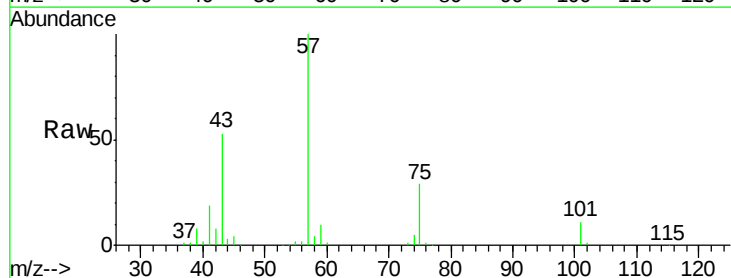
Tgt Ion: 75 Resp: 74802

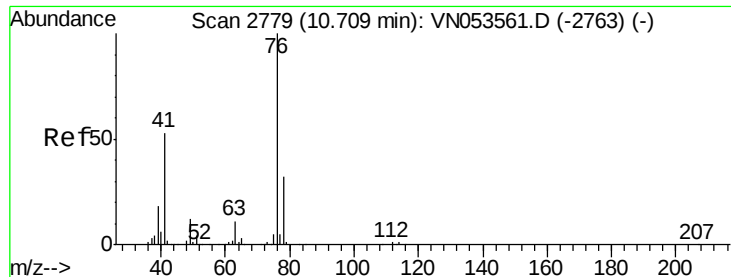
Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.6#

39 27.7 33.4 50.0#

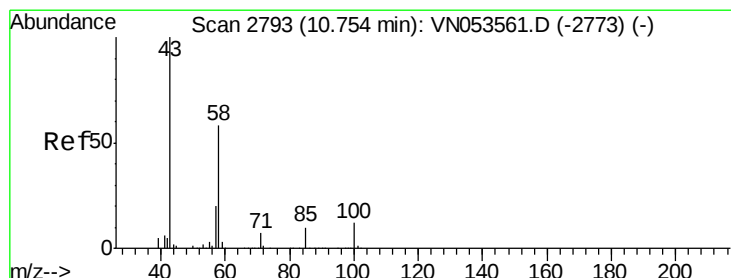
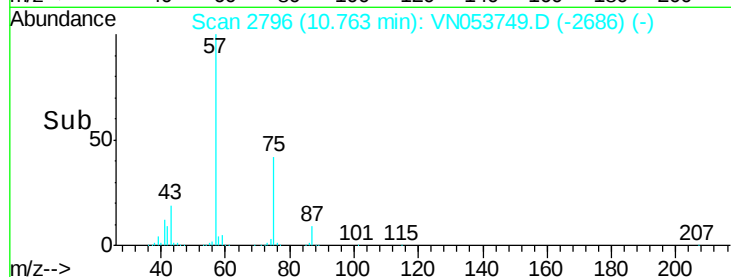
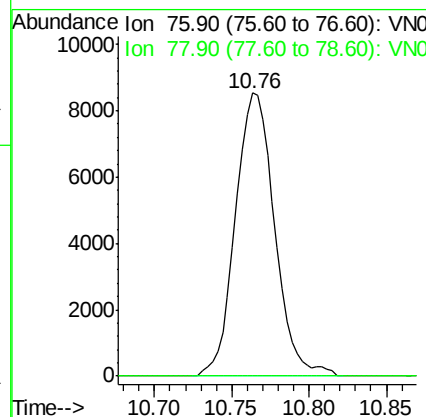
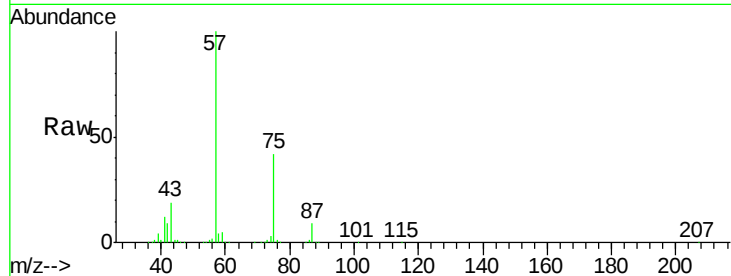




#57
 1,3-Dichloropropane
 Concen: 1.275 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN053749.D
 Acq: 13 Feb 2019 12:34

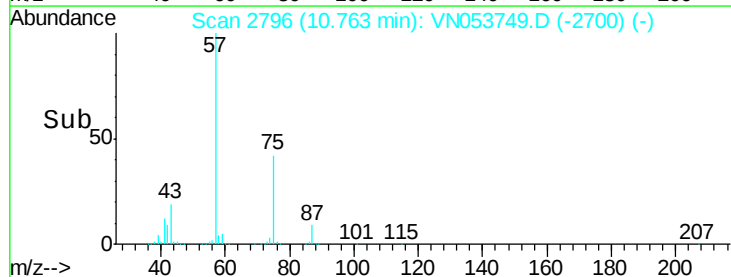
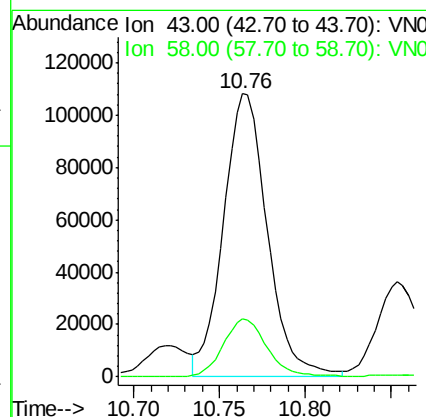
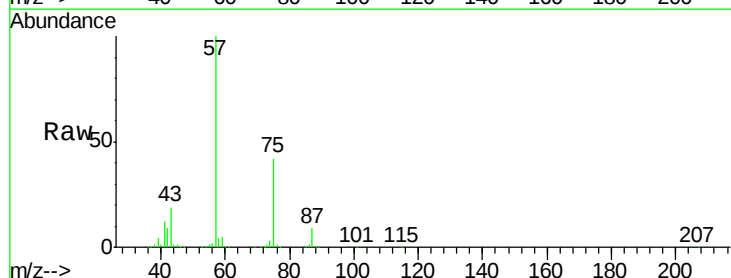
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117063TB

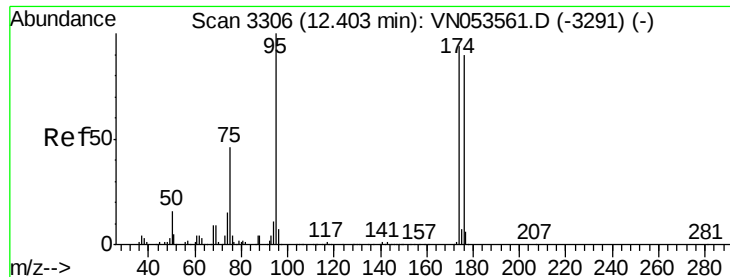
Tot Ion: 76 Resp: 15021
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 50.966 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053749.D
 Acq: 13 Feb 2019 12:34

Tgt Ion: 43 Resp: 191614
 Ion Ratio Lower Upper
 43 100
 58 20.8 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: 50.144 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

PB117063TB

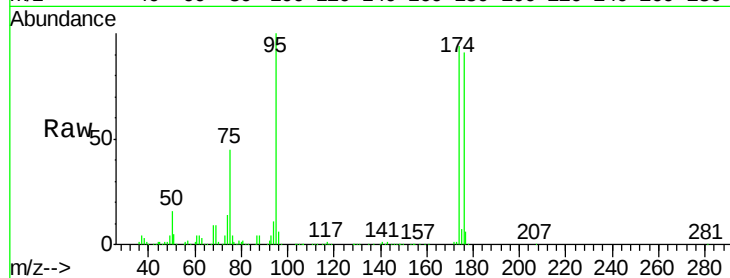
Tot Ion: 95 Resp: 459914

Ion Ratio Lower Upper

95 100

174 94.0 0.0 183.2

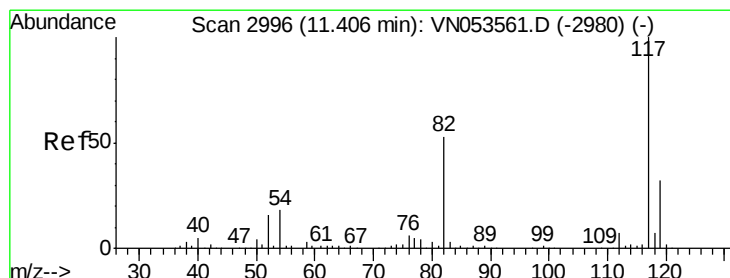
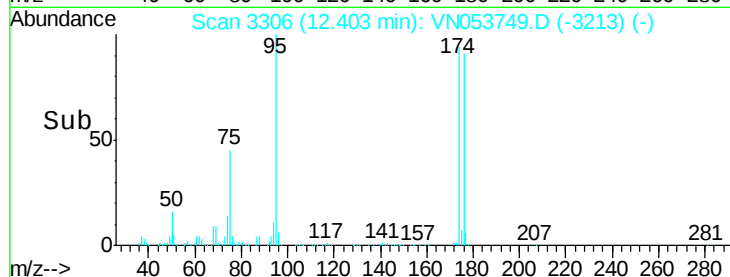
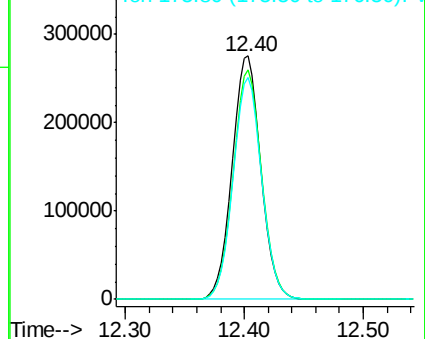
176 90.8 0.0 177.4



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: VN053749.D

Acq: 13 Feb 2019 12:34

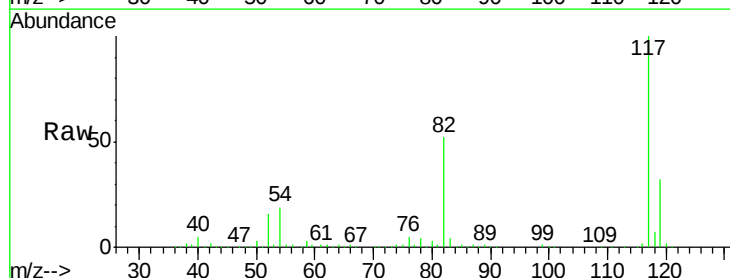
Tgt Ion: 117 Resp: 1075585

Ion Ratio Lower Upper

117 100

82 52.2 42.9 64.3

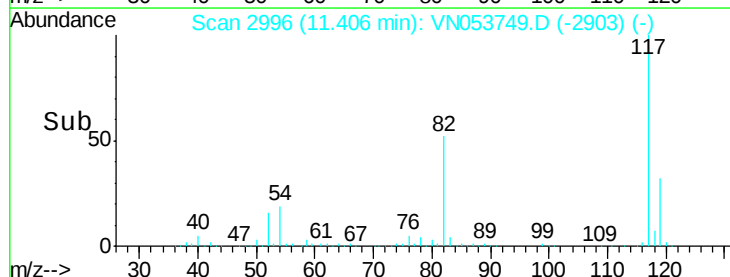
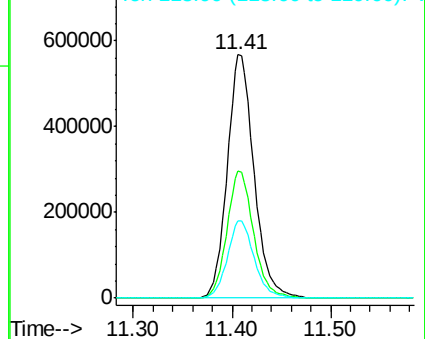
119 31.9 26.0 39.0

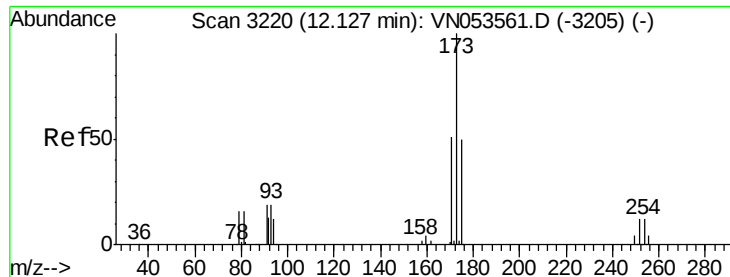


Abundance Ion 116.90 (116.60 to 117.60): VN053561.D (-2980) (-)

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: 0.573 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

PB117063TB

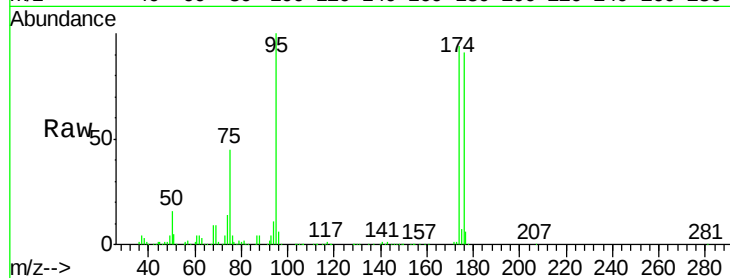
Tot Ion:173 Resp: 3132

Ion Ratio Lower Upper

173 100

175 847.9 24.6 74.0#

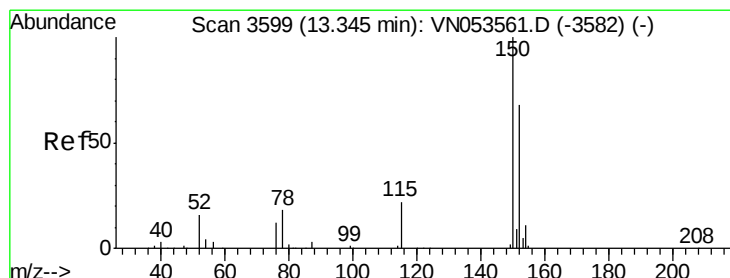
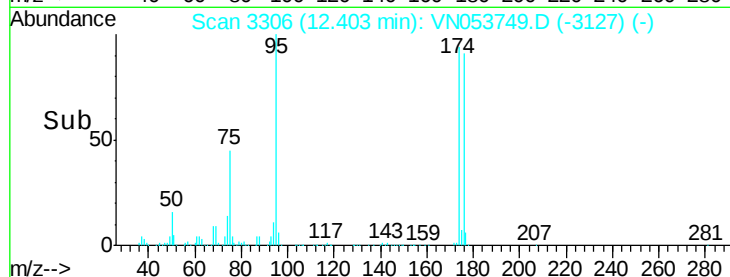
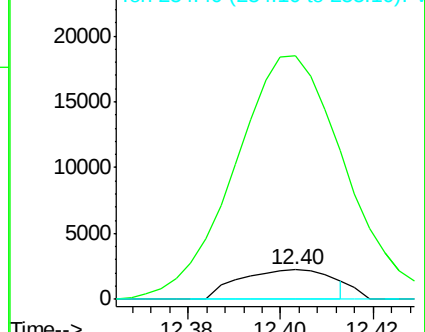
254 0.0 0.2 0.2#



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: VN053749.D

Acq: 13 Feb 2019 12:34

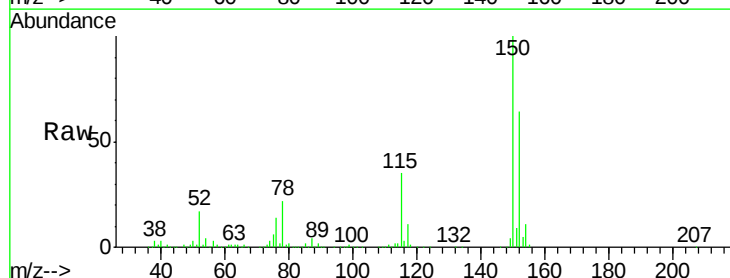
Tgt Ion:152 Resp: 420406

Ion Ratio Lower Upper

152 100

115 55.3 27.8 83.4

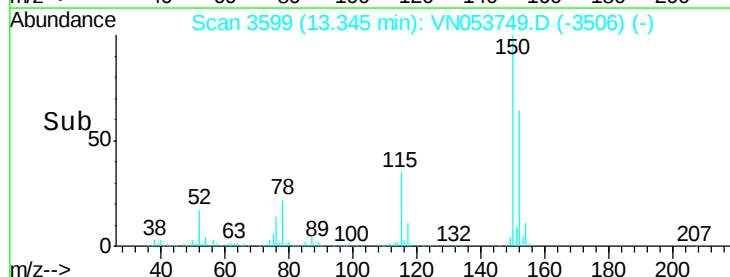
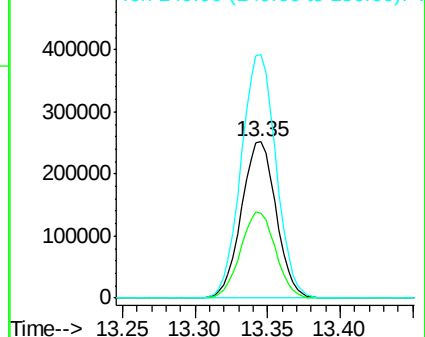
150 156.2 0.0 349.0

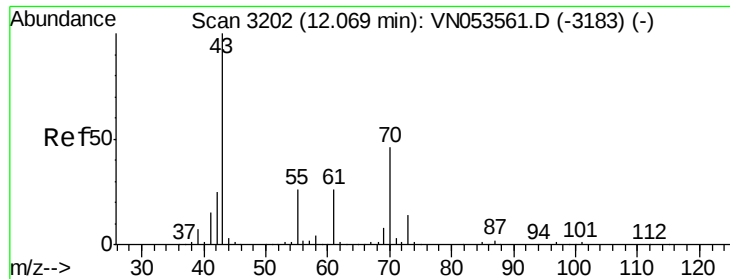


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.834 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

PB117063TB

Tot Ion: 43 Resp: 20137

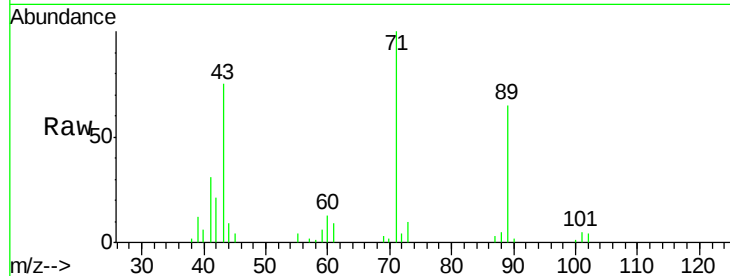
Ion Ratio Lower Upper

43 100

70 3.2 35.4 53.2#

55 6.3 20.9 31.3#

61 12.2 20.5 30.7#

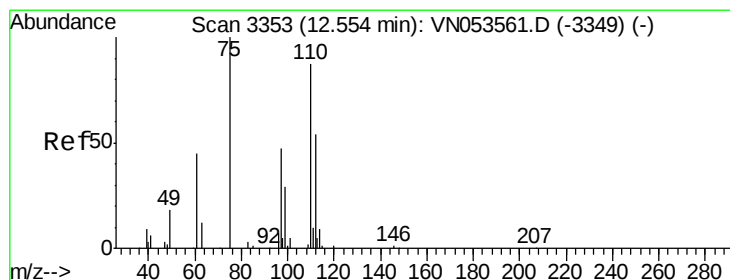
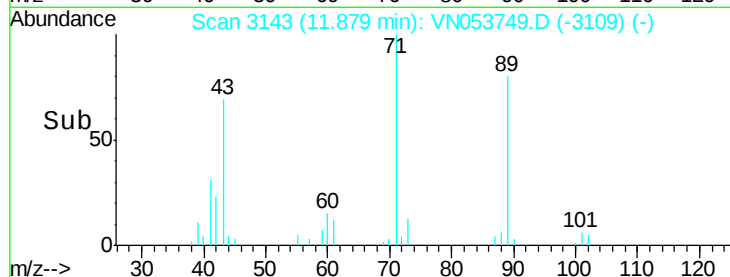
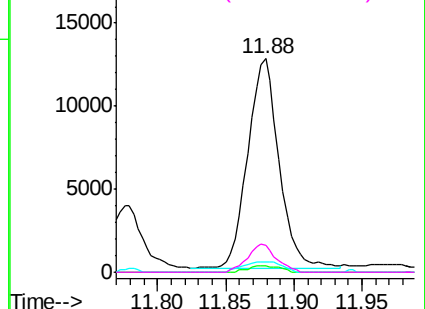


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 39.064 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053749.D

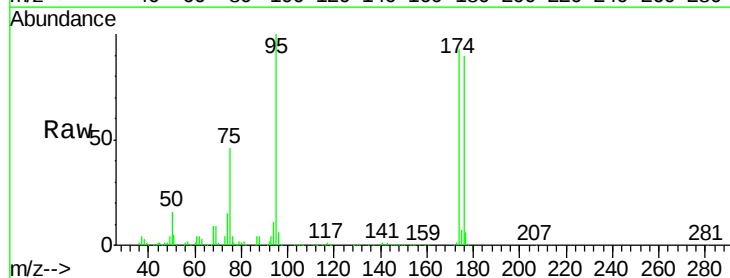
Acq: 13 Feb 2019 12:34

Tgt Ion: 75 Resp: 210942

Ion Ratio Lower Upper

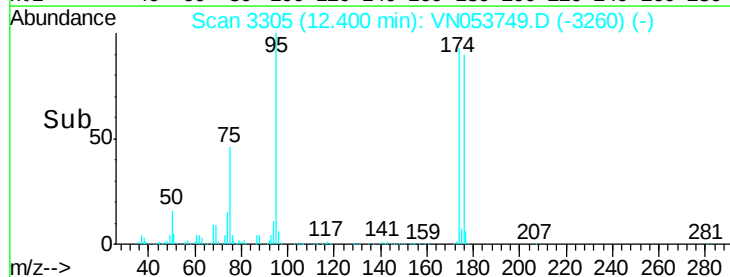
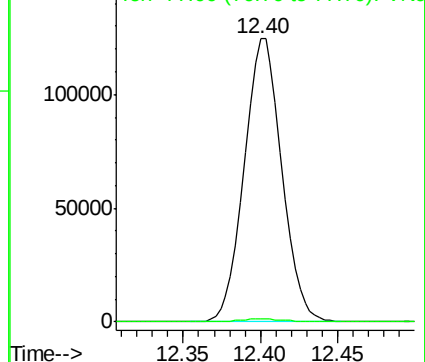
75 100

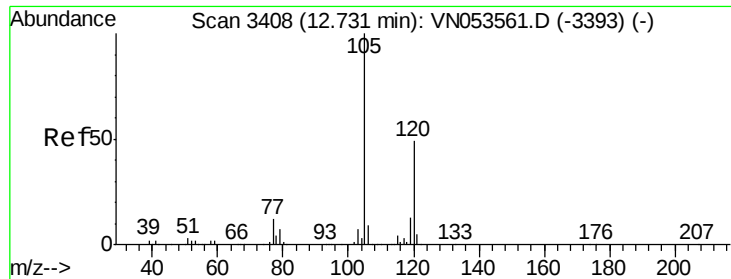
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.268 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampled :

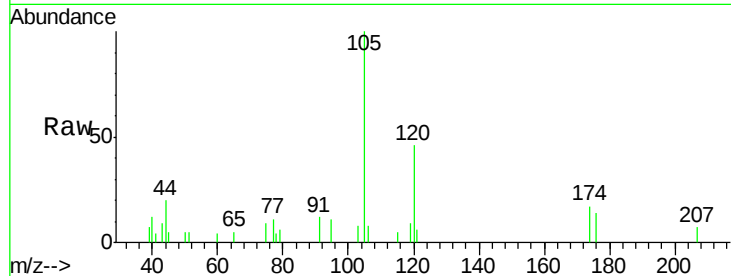
PB117063TB

Tot Ion:105 Resp: 6562

Ion Ratio Lower Upper

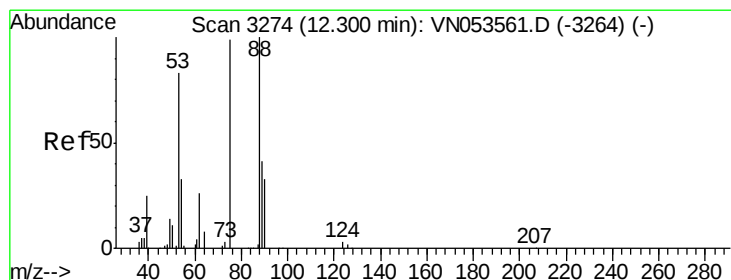
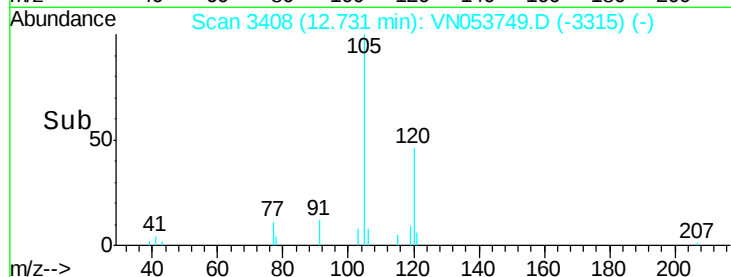
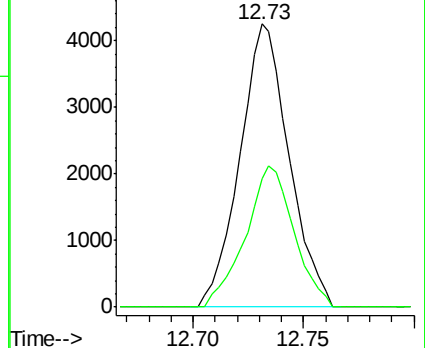
105 100

120 49.0 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 109.846 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

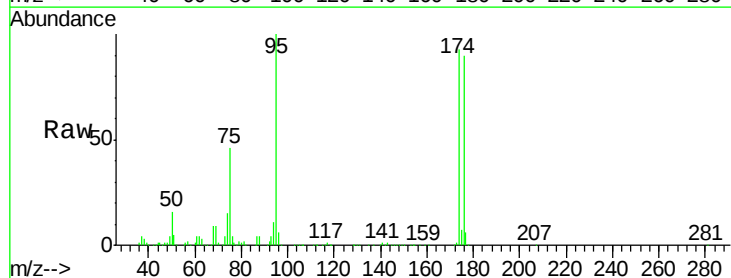
Tgt Ion: 75 Resp: 210942

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

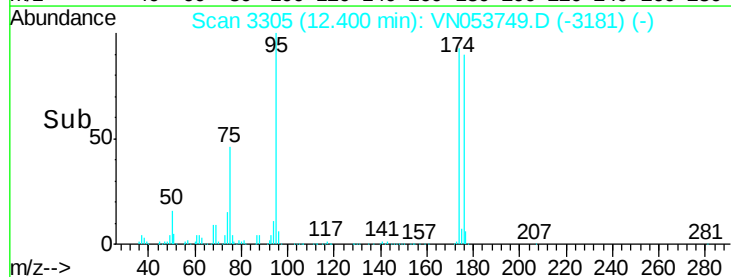
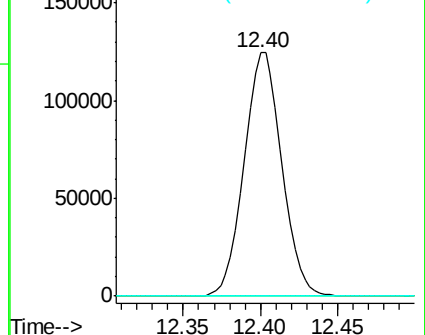
89 0.0 35.6 53.4#

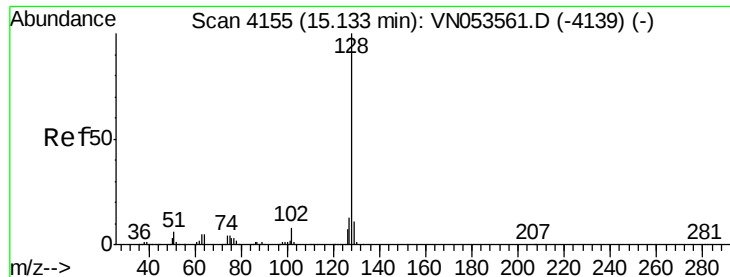


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 1.933 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampled :

PB117063TB

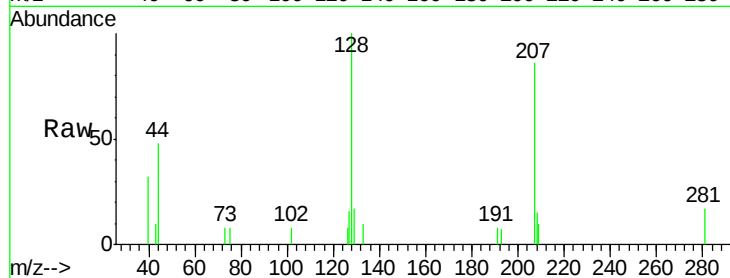
Tot Ion:128 Resp: 3768

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

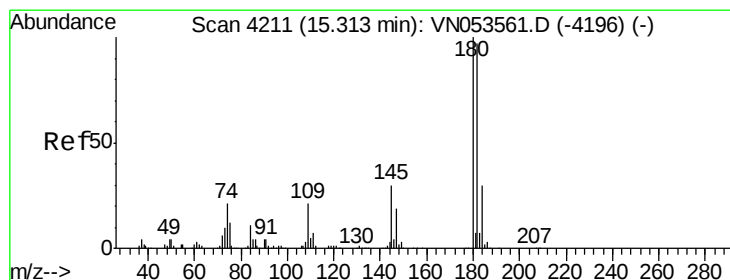
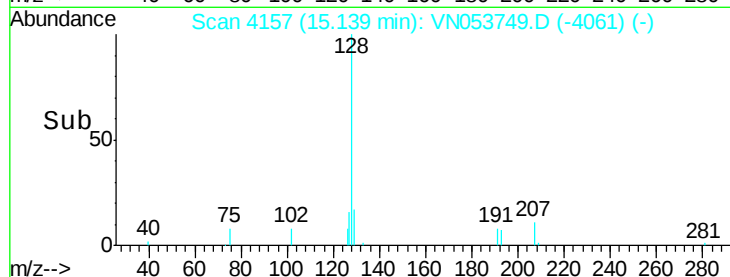
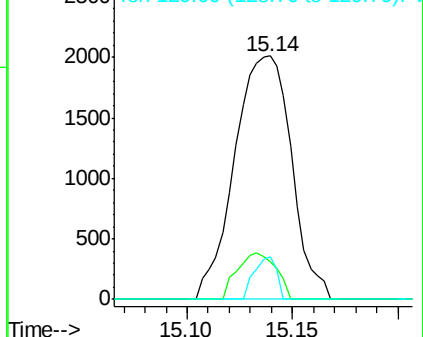
129 7.0 8.6 13.0#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.230 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN053749.D

Acq: 13 Feb 2019 12:34

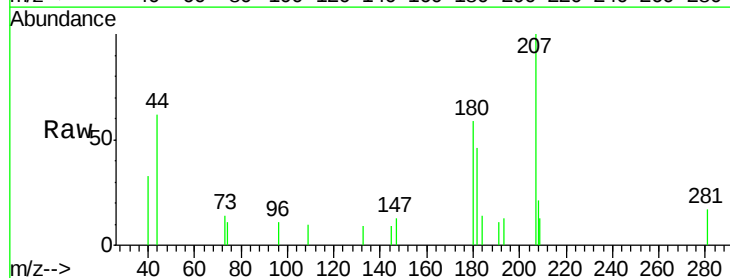
Tgt Ion:180 Resp: 1676

Ion Ratio Lower Upper

180 100

182 105.3 47.9 143.8

145 15.2 14.7 44.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

