

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN100319\
 Data File : VN058504.D
 Acq On : 3 Oct 2019 13:09
 Operator : JC/SP
 Sample : VN1003WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1003WBL01

Quant Time: Oct 04 03:18:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	358990	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	585687	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	493743	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	184371	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	258388	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	
35) Dibromofluoromethane	7.57	113	181579	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
50) Toluene-d8	10.08	98	718796	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	
62) 4-Bromofluorobenzene	12.41	95	220290	43.33	ug/l	0.00
Spiked Amount			Recovery	=	86.66%	

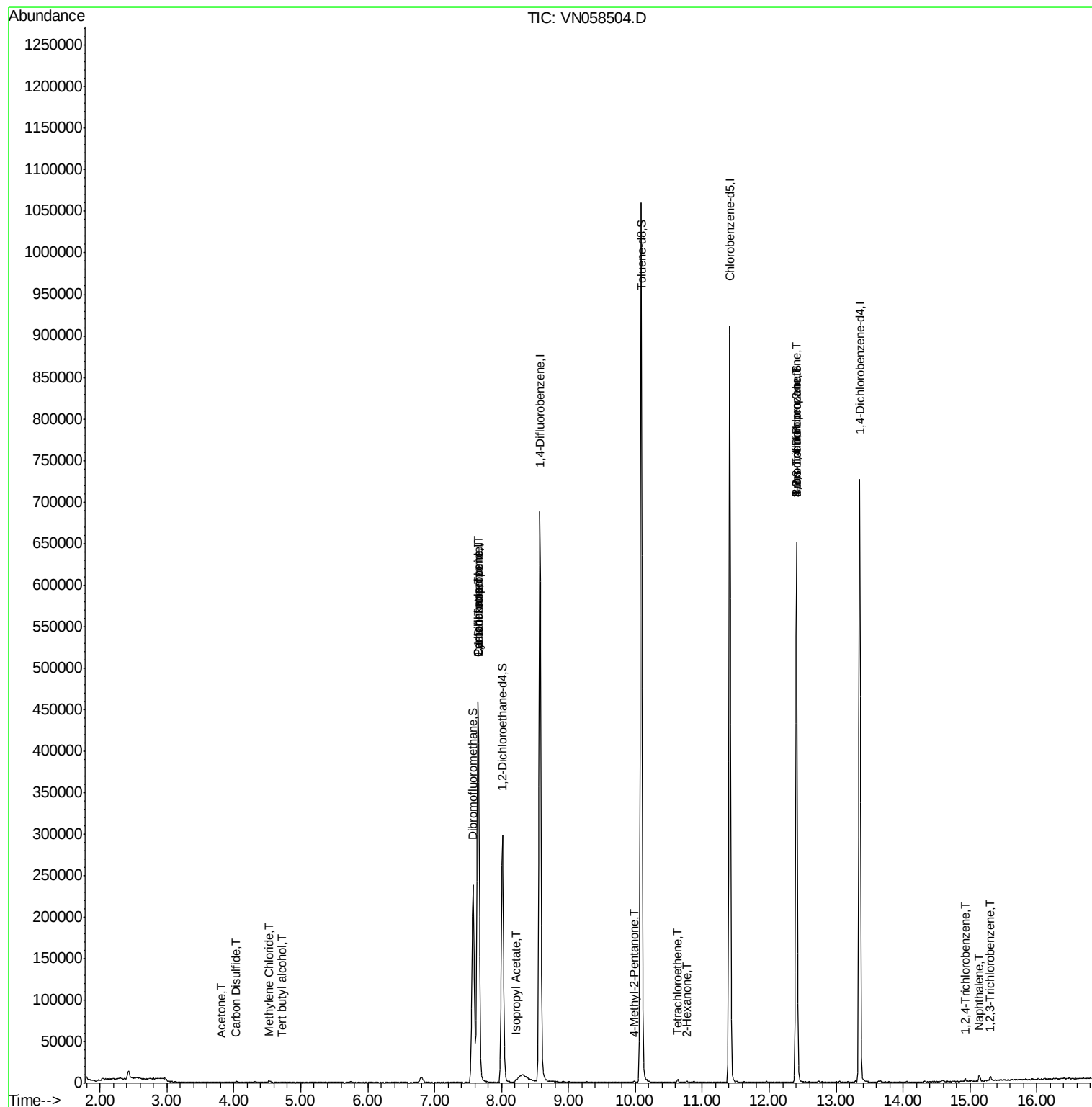
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	126	0.216	ug/l #	71
16) Acetone	3.80	43	504	0.282	ug/l #	47
17) Carbon Disulfide	4.03	76	2118	0.237	ug/l #	74
20) Methylene Chloride	4.53	84	970	0.235	ug/l #	85
31) Cyclohexane	7.65	56	9684	1.334	ug/l #	29
36) 1,1-Dichloropropene	7.65	75	30959	5.528	ug/l #	51
38) Carbon Tetrachloride	7.65	117	37867	7.491	ug/l #	16
43) Isopropyl Acetate	8.22	43	2148	0.241	ug/l #	63
51) 4-Methyl-2-Pentanone	9.99	43	1540	0.336	ug/l #	37
59) 2-Hexanone	10.75	43	954	0.286	ug/l	71
60) Dibromochloromethane	10.63	129	699	Below Cal	#	11
64) Tetrachloroethene	10.63	164	697	0.222	ug/l #	81
71) Bromoform	12.41	173	655	0.977	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	120718	35.847	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	120718	108.873	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.93	180	1310	0.426	ug/l	96
95) Naphthalene	15.14	128	6015	0.639	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.30	180	1709	0.529	ug/l	97

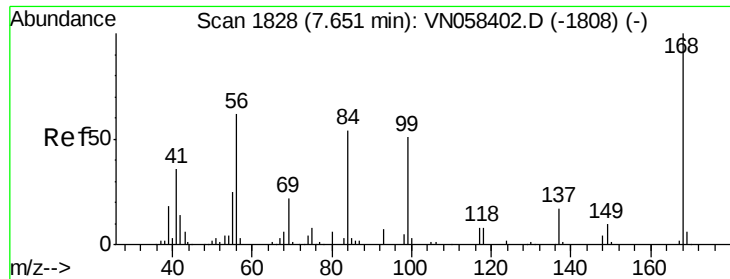
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 30 08:07:38 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

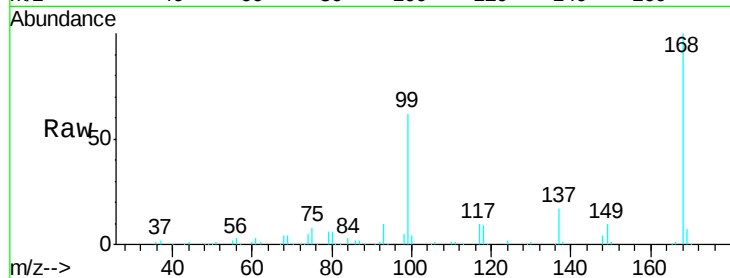
VN1003WBL01

Tgt Ion:168 Resp: 358990

Ion Ratio Lower Upper

168 100

99 62.0 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): VN058504.D (-1735) (-)

Ion 98.90 (98.60 to 99.60): VN058504.D (-1735) (-)

7.65

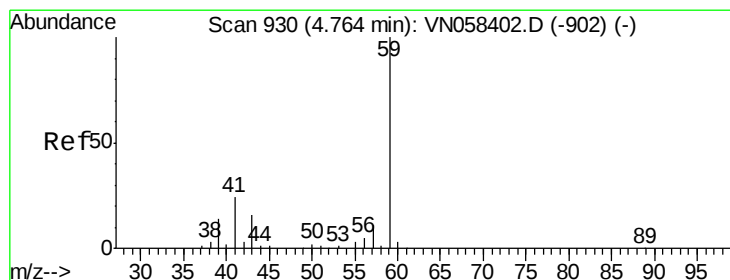
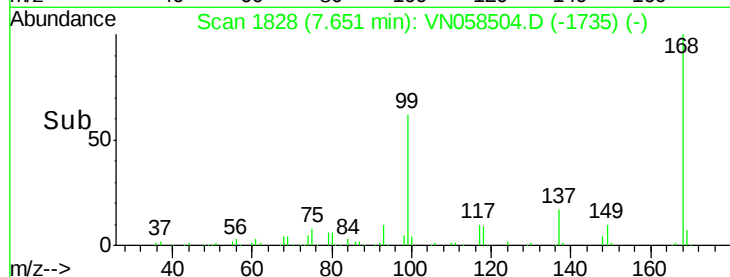
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.216 ug/l

RT: 4.72 min Scan# 917

Delta R.T. -0.04 min

Lab File: VN058504.D

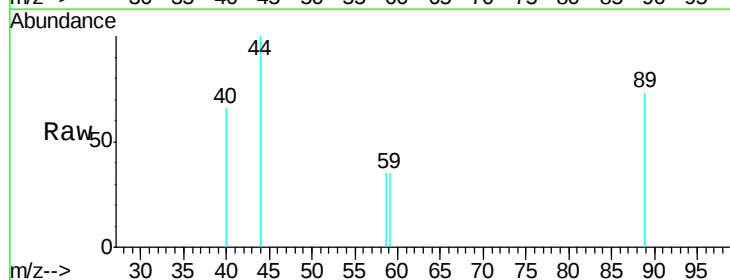
Acq: 3 Oct 2019 13:09

Tgt Ion: 59 Resp: 126

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN058504.D (-837) (-)

Ion 57.00 (56.70 to 57.70): VN058504.D (-837) (-)

4.72

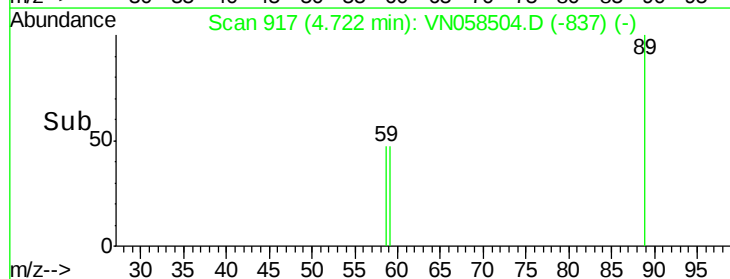
300

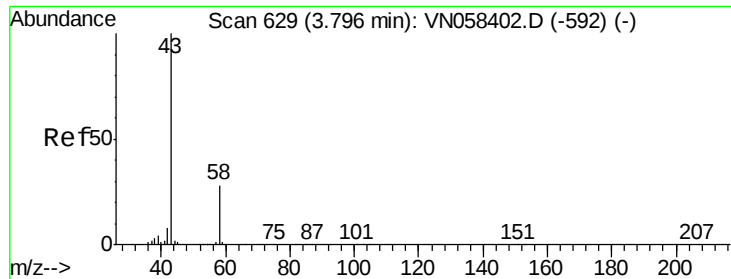
200

100

0

Time-->





#16

Acetone

Concen: 0.282 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

Instrument :

MSVOA_N

ClientSampled :

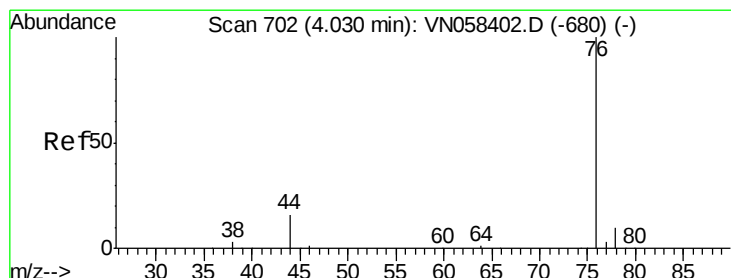
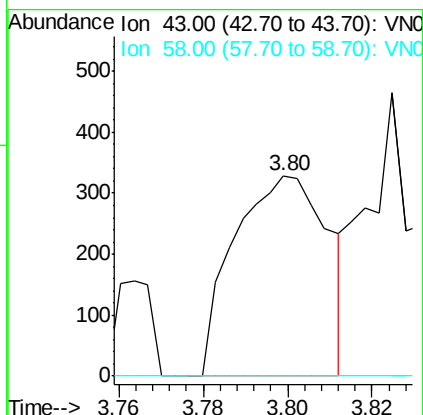
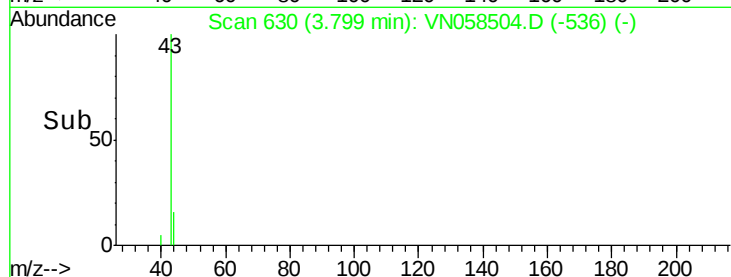
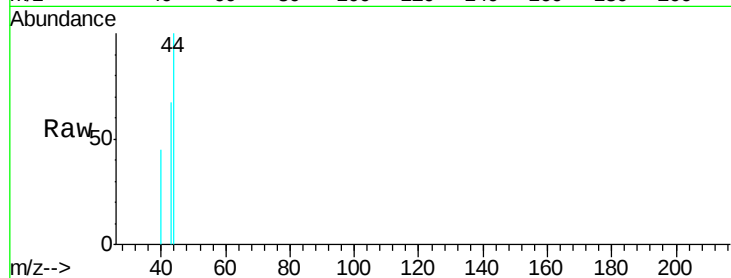
VN1003WBL01

Tgt Ion: 43 Resp: 504

Ion Ratio Lower Upper

43 100

58 0.0 22.4 33.6#



#17

Carbon Disulfide

Concen: 0.237 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058504.D

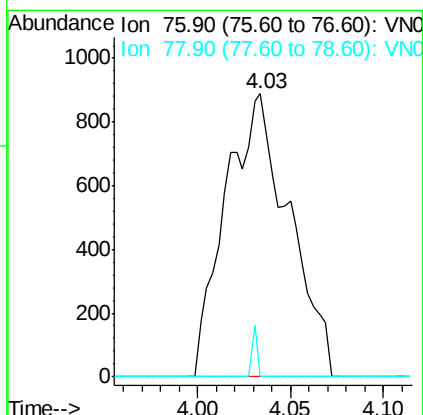
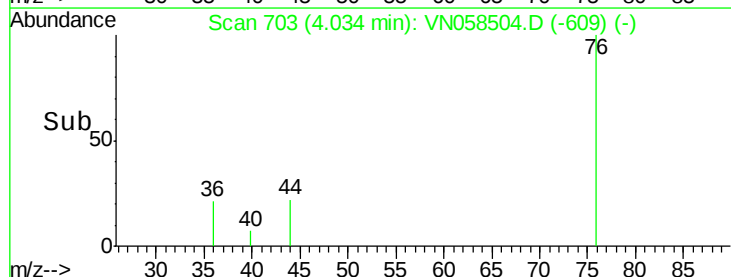
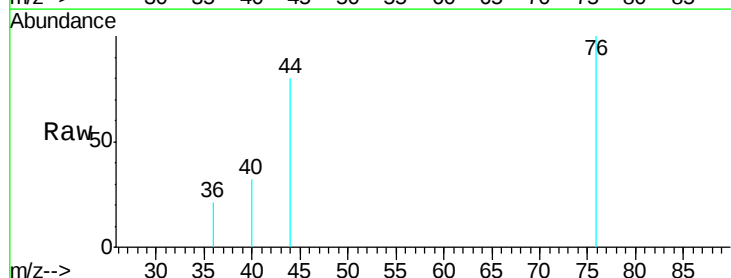
Acq: 3 Oct 2019 13:09

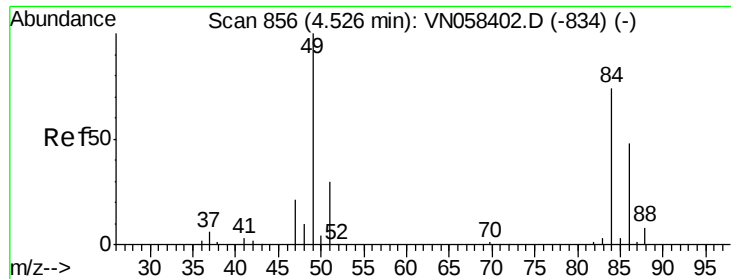
Tgt Ion: 76 Resp: 2118

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#





#20

Methylene Chloride

Concen: 0.235 ug/l

RT: 4.53 min Scan# 857

Delta R.T. 0.00 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1003WBL01

Tgt Ion: 84 Resp: 970

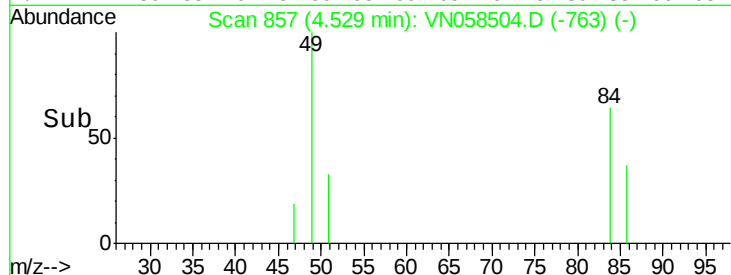
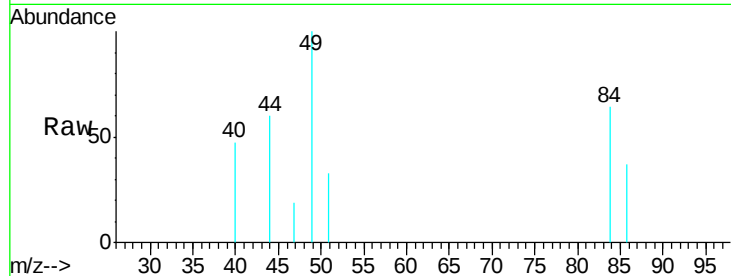
Ion Ratio Lower Upper

84 100

49 155.8 107.9 161.9

51 50.8 32.8 49.2#

86 57.9 51.5 77.3

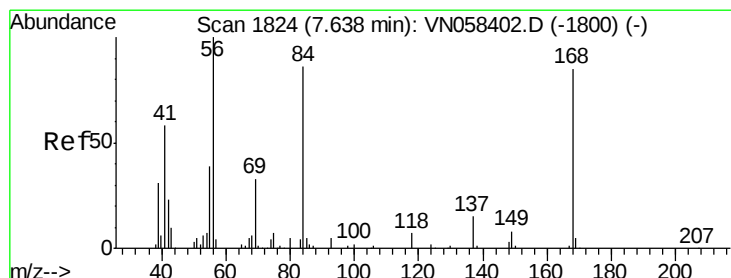
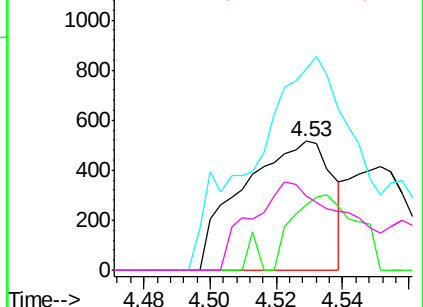


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#31

Cyclohexane

Concen: 1.334 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

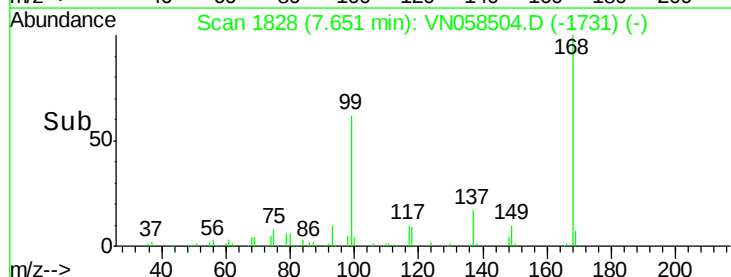
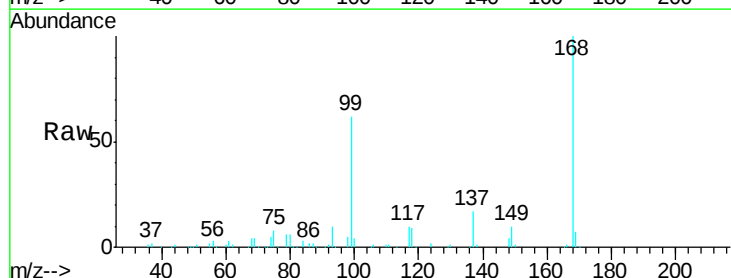
Tgt Ion: 56 Resp: 9684

Ion Ratio Lower Upper

56 100

69 137.1 26.2 39.4#

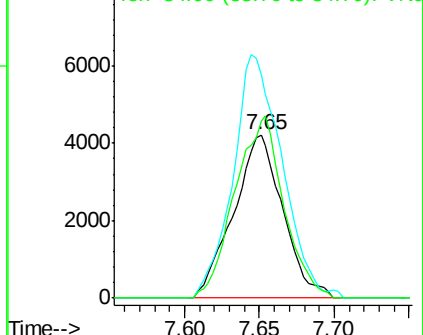
84 108.8 67.6 101.4#

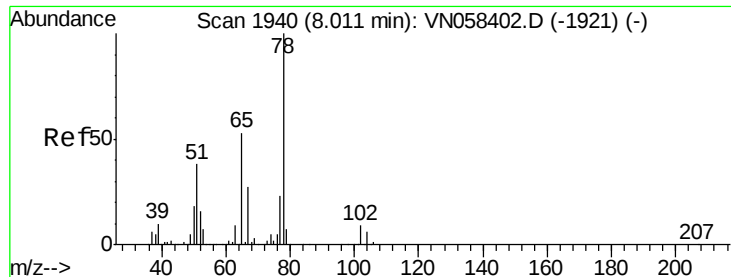


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

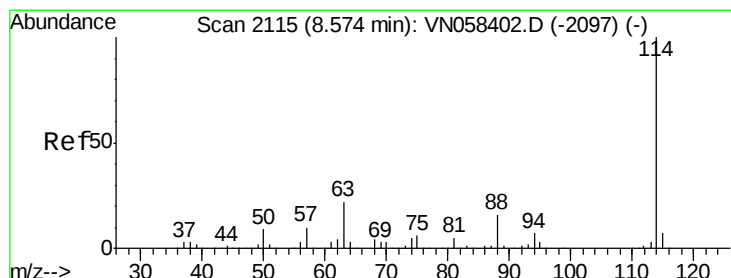
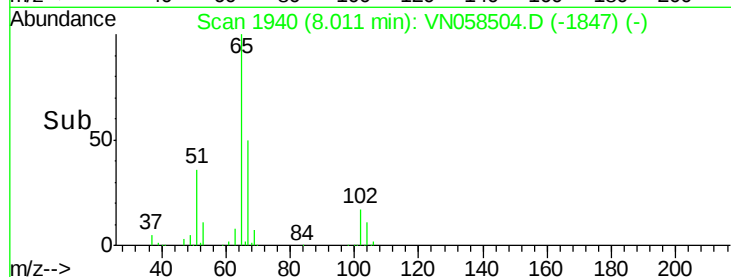
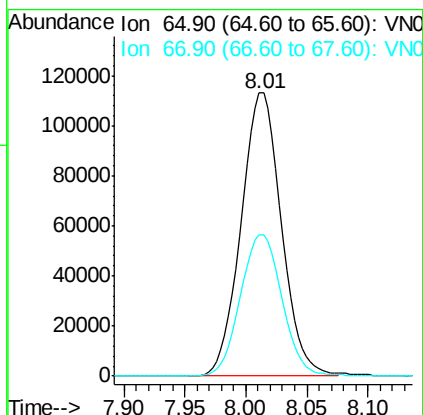
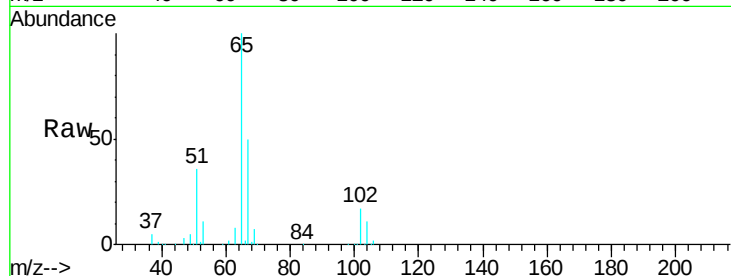




#33
 1,2-Dichloroethane-d4
 Concen: 49.254 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058504.D
 Acq: 3 Oct 2019 13:09

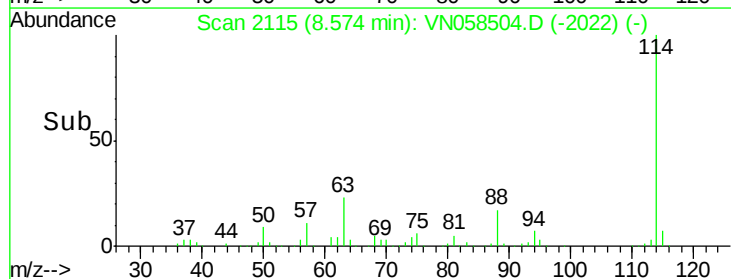
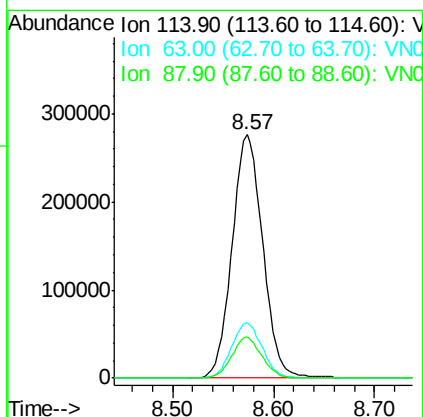
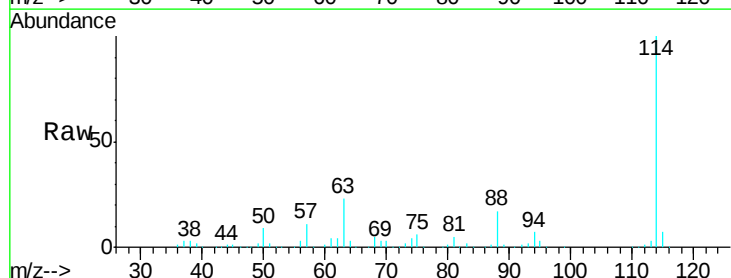
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1003WBL01

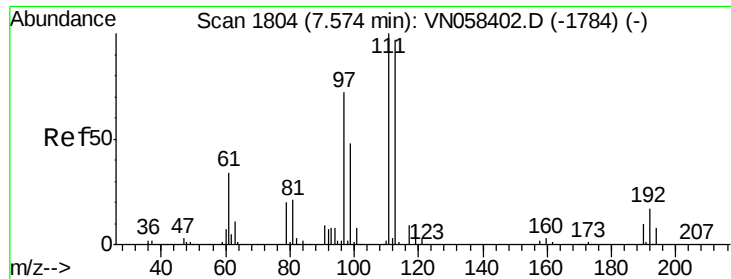
Tgt Ion: 65 Resp: 258388
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058504.D
 Acq: 3 Oct 2019 13:09

Tgt Ion: 114 Resp: 585687
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 45.0
 88 16.8 0.0 32.2

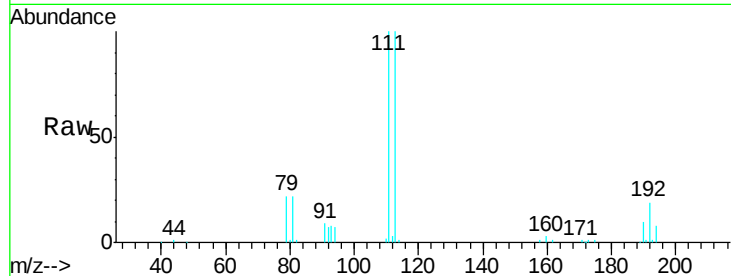




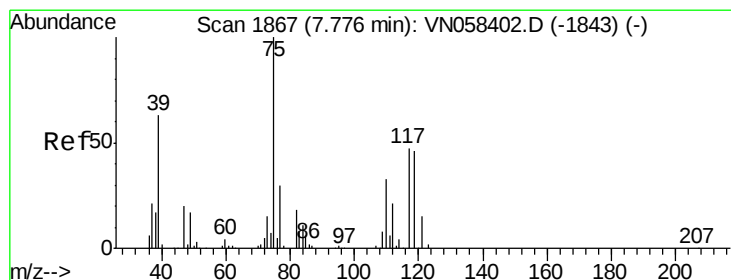
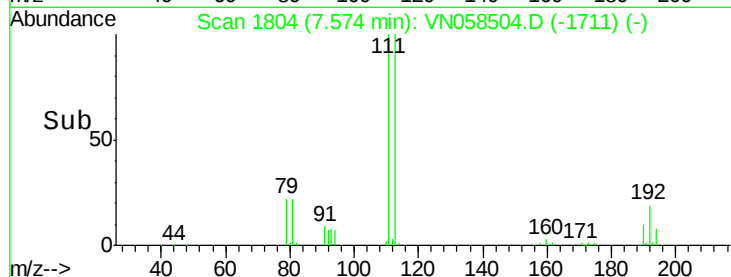
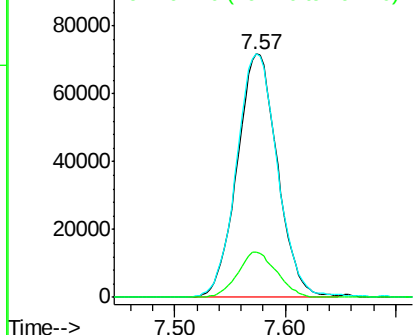
#35
Dibromofluoromethane
Concen: 50.585 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN058504.D
Acq: 3 Oct 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1003WBL01

Tgt Ion: 113 Resp: 181579
Ion Ratio Lower Upper
113 100
111 101.9 83.4 125.2
192 18.1 14.9 22.3

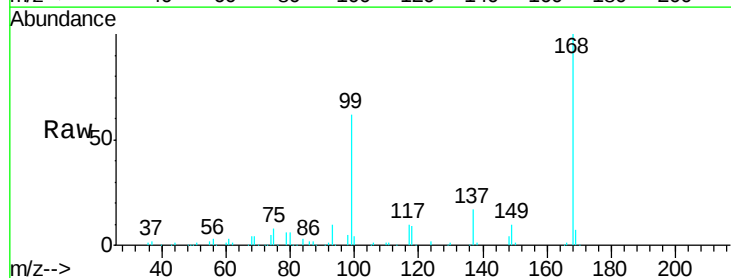


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

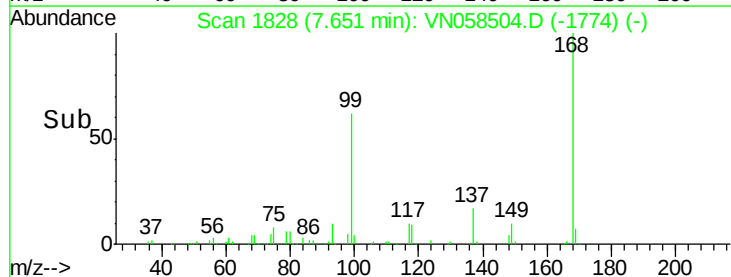
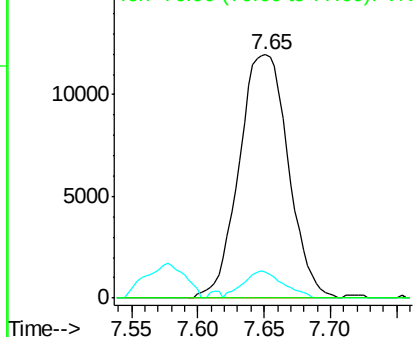


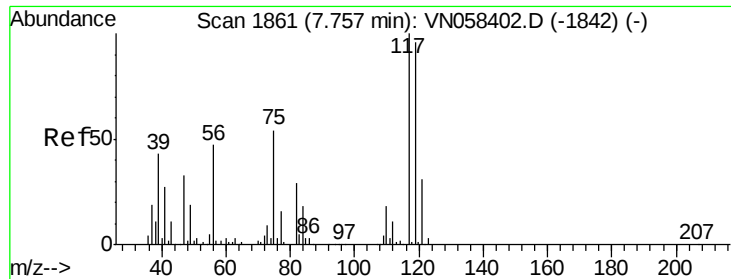
#36
1,1-Dichloropropene
Concen: 5.528 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.13 min
Lab File: VN058504.D
Acq: 3 Oct 2019 13:09

Tgt Ion: 75 Resp: 30959
Ion Ratio Lower Upper
75 100
110 9.1 16.4 49.2#
77 0.0 24.3 36.5#



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





#38

Carbon Tetrachloride

Concen: 7.491 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1003WBL01

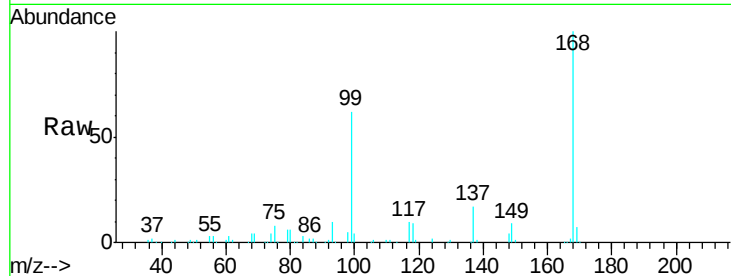
Tgt Ion:117 Resp: 37867

Ion Ratio Lower Upper

117 100

119 5.0 76.6 115.0#

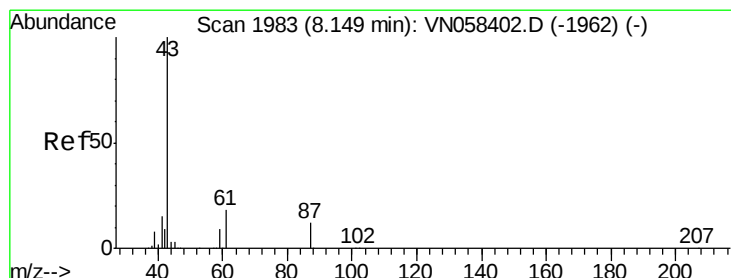
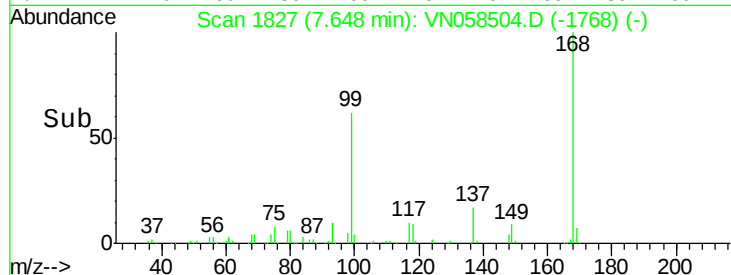
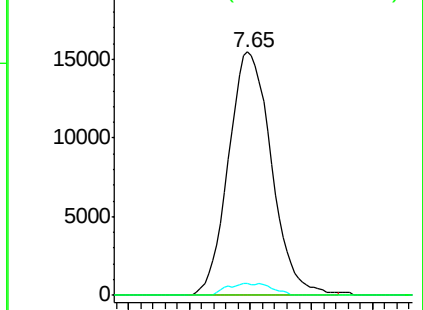
121 0.0 24.7 37.1#



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: 0.241 ug/l

RT: 8.22 min Scan# 2006

Delta R.T. 0.07 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

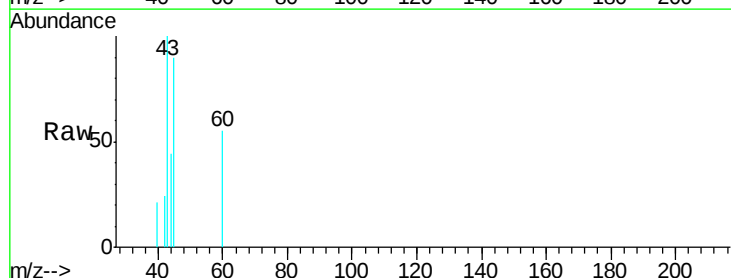
Tgt Ion: 43 Resp: 2148

Ion Ratio Lower Upper

43 100

61 0.0 14.8 22.2#

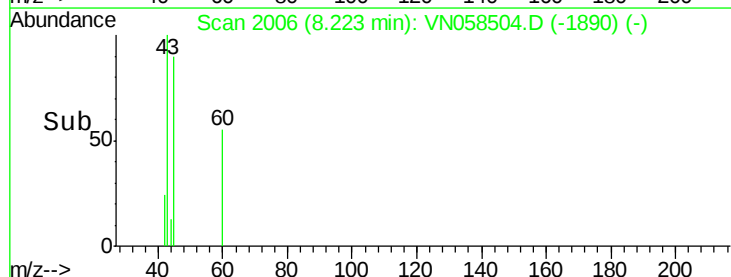
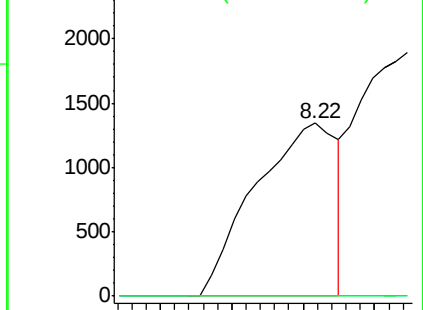
87 0.0 9.7 14.5#

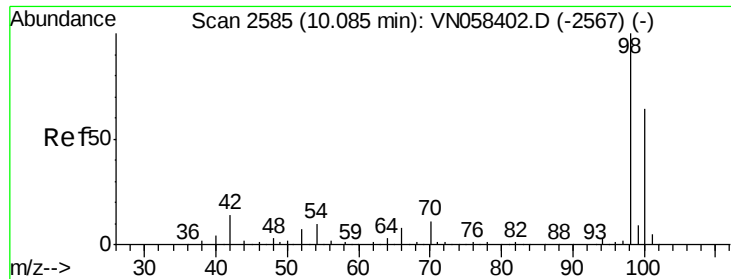


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: 51.116 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

Instrument :

MSVOA_N

ClientSampled :

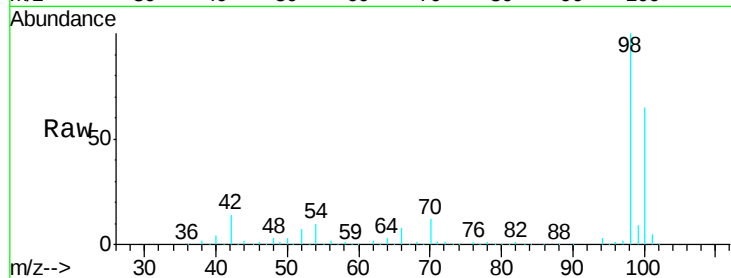
VN1003WBL01

Tgt Ion: 98 Resp: 718796

Ion Ratio Lower Upper

98 100

100 64.6 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN058402.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN058402.D (-2567) (-)

10.08

400000

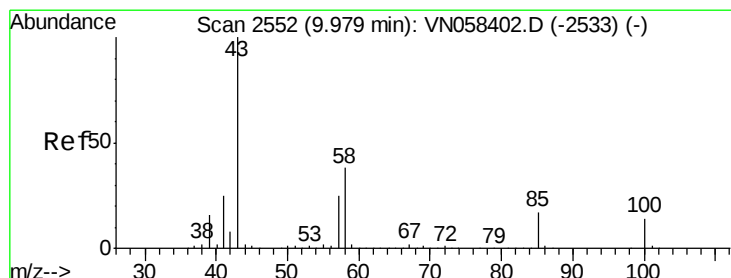
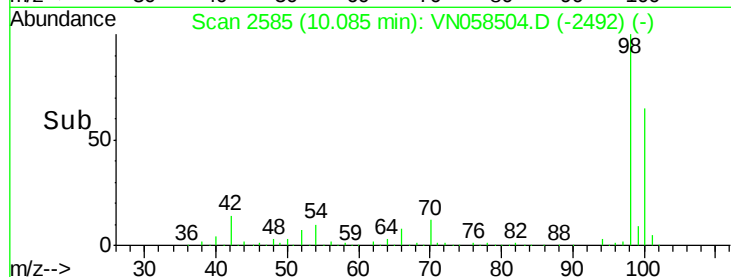
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.336 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN058504.D

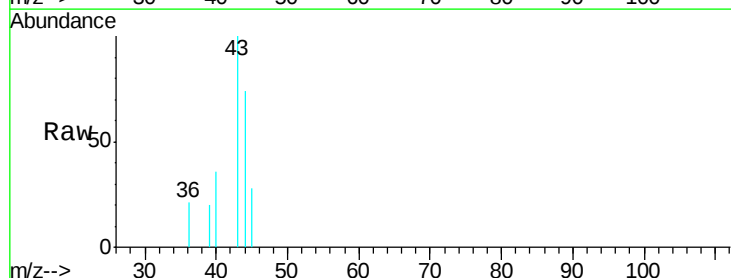
Acq: 3 Oct 2019 13:09

Tgt Ion: 43 Resp: 1540

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VN058402.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN058402.D (-2533) (-)

9.99

800

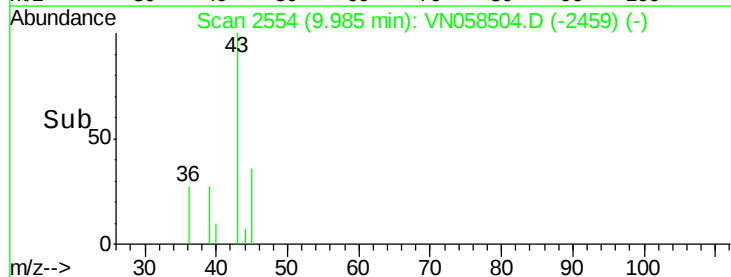
600

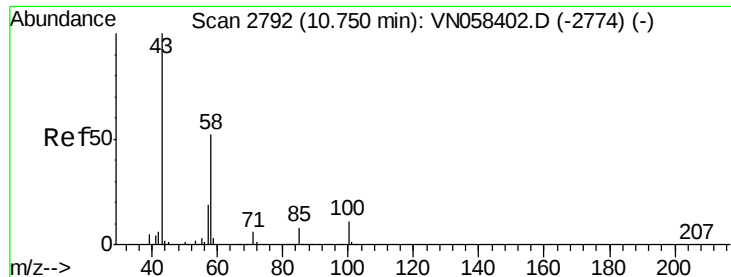
400

200

0

Time-->

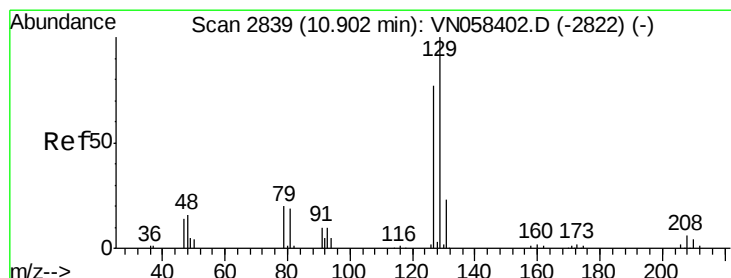
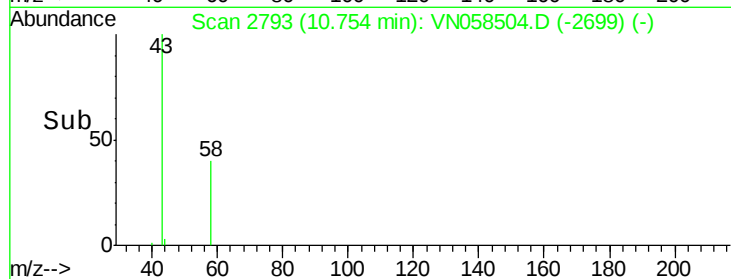
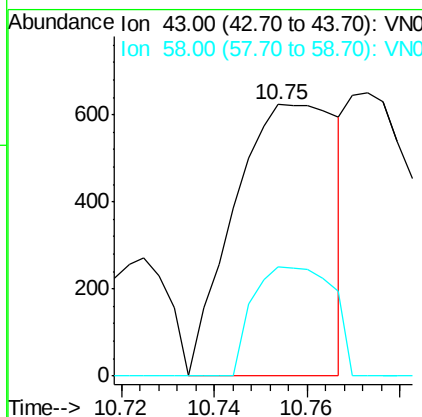
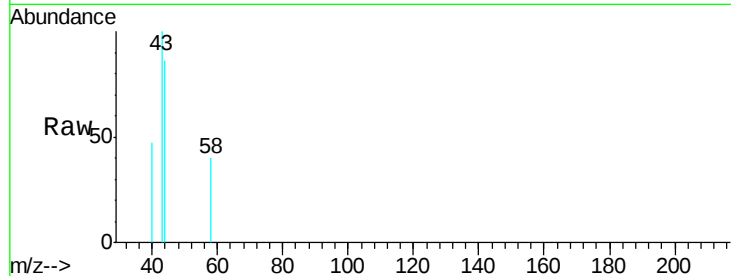




#59
2-Hexanone
Concen: 0.286 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN058504.D
Acq: 3 Oct 2019 13:09

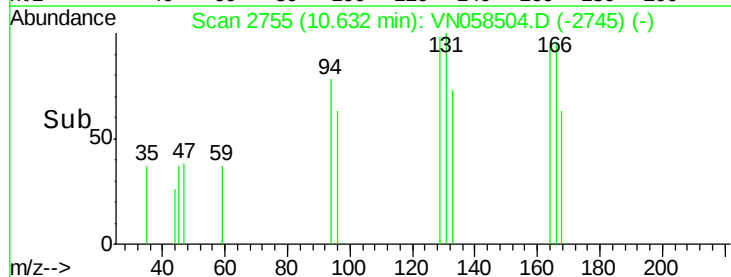
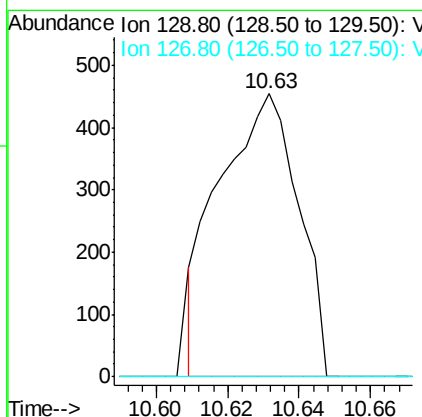
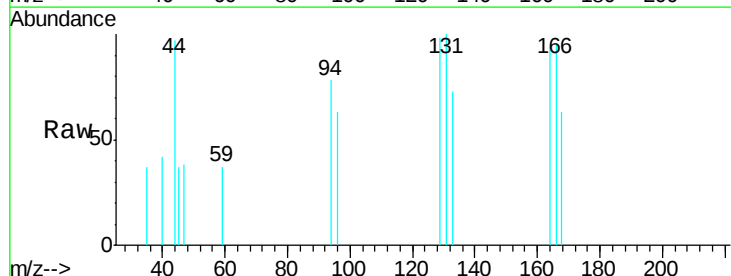
Instrument :
MSVOA_N
ClientSampled :
VN1003WBL01

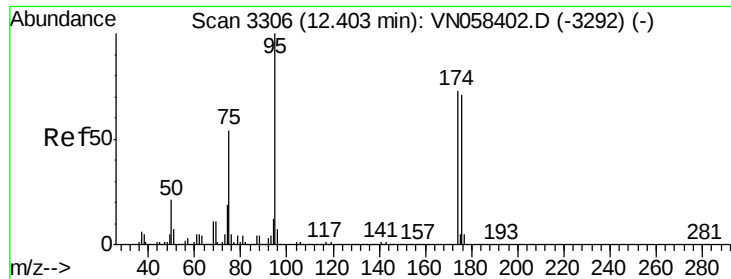
Tgt Ion: 43 Resp: 954
Ion Ratio Lower Upper
43 100
58 31.3 25.8 77.3



#60
Dibromochloromethane
Concen: Below Cal
RT: 10.63 min Scan# 2755
Delta R.T. -0.27 min
Lab File: VN058504.D
Acq: 3 Oct 2019 13:09

Tgt Ion: 129 Resp: 699
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.8#





#62

4-Bromofluorobenzene

Concen: 43.325 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1003WBL01

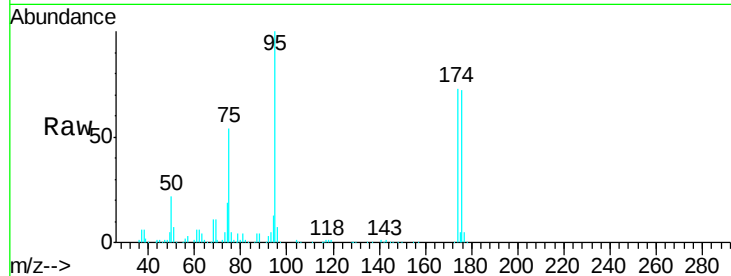
Tgt Ion: 95 Resp: 220290

Ion Ratio Lower Upper

95 100

174 74.5 0.0 150.6

176 72.8 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)

12.41

150000

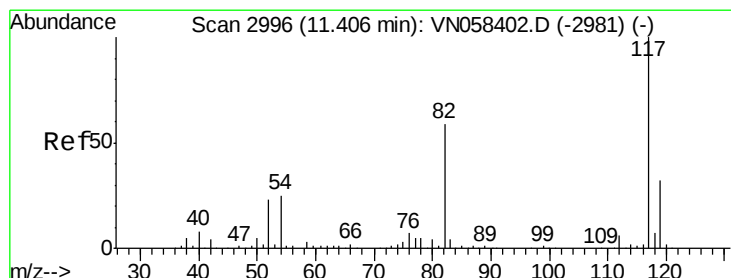
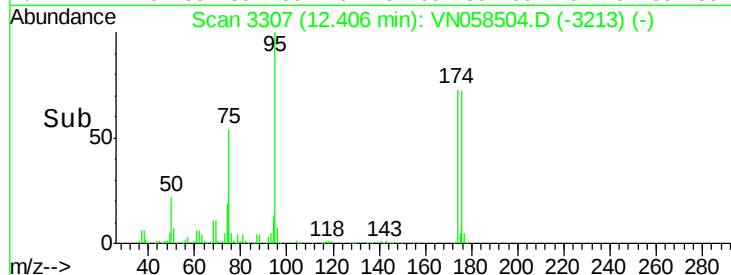
100000

50000

0

12.40 12.50

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

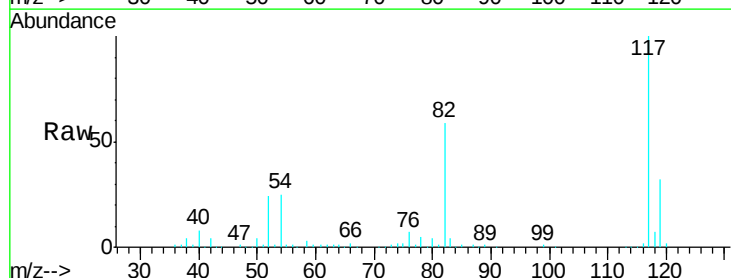
Tgt Ion: 117 Resp: 493743

Ion Ratio Lower Upper

117 100

82 58.9 47.4 71.0

119 31.6 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058402.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058402.D (-2981) (-)

11.41

300000

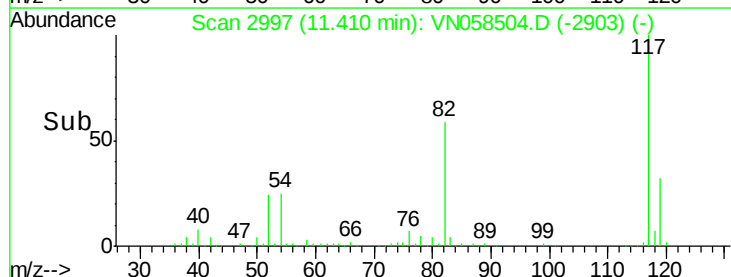
200000

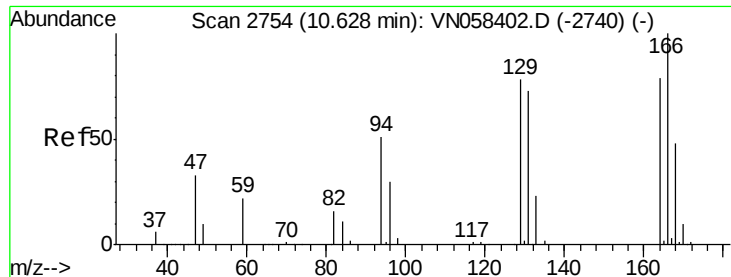
100000

0

11.30 11.40 11.50

Time-->





#64

Tetrachloroethene

Concen: 0.222 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1003WBL01

Tgt Ion:164 Resp: 697

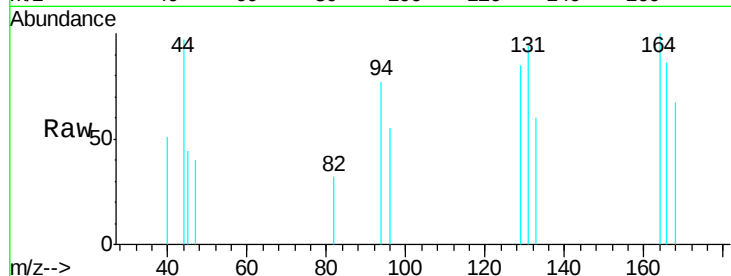
Ion Ratio Lower Upper

164 100

166 86.1 101.1 151.7#

129 85.5 79.2 118.8

131 93.6 74.1 111.1

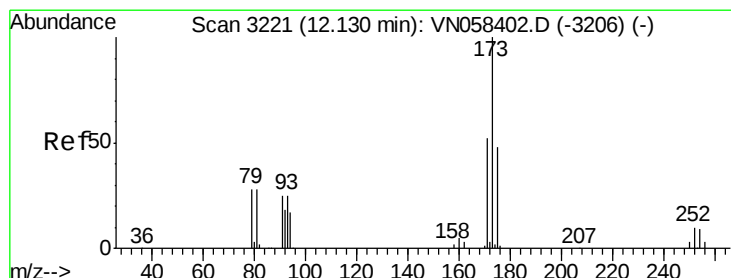
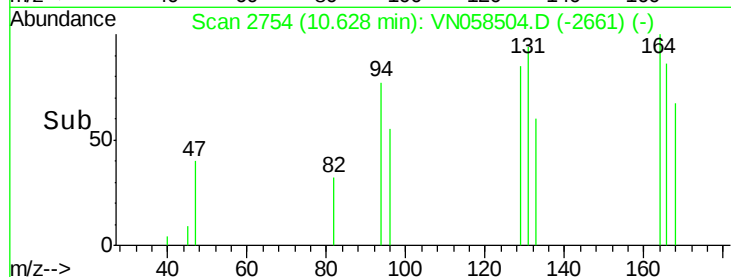
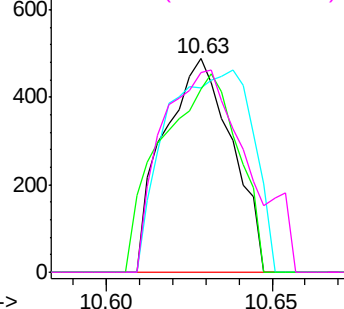


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.977 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

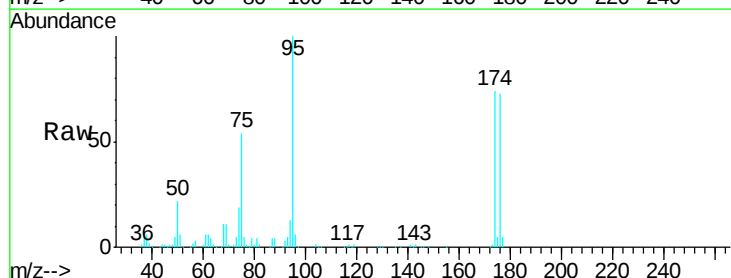
Tgt Ion:173 Resp: 655

Ion Ratio Lower Upper

173 100

175 1536.8 24.3 73.0#

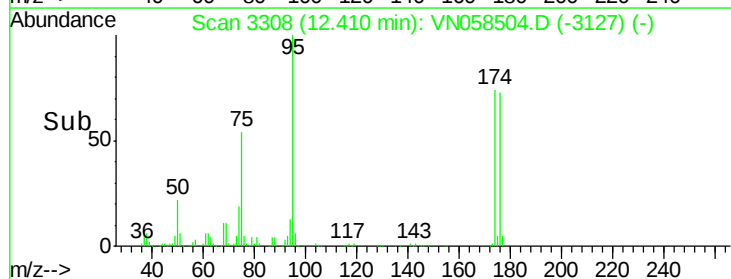
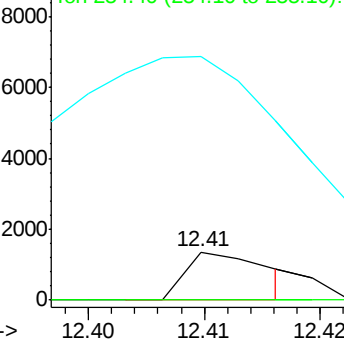
254 0.0 0.1 0.1#

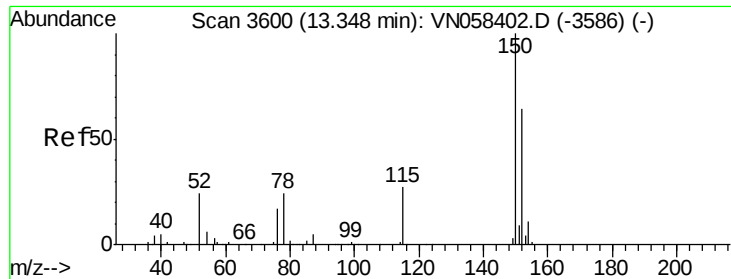


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3601

Delta R.T. 0.00 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

Instrument :

MSVOA_N

ClientSampled :

VN1003WBL01

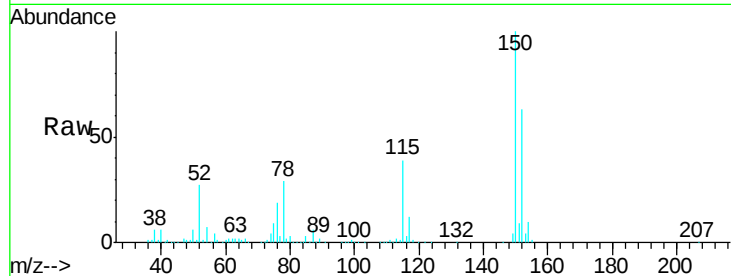
Tgt Ion: 152 Resp: 184371

Ion Ratio Lower Upper

152 100

115 62.0 30.0 90.0

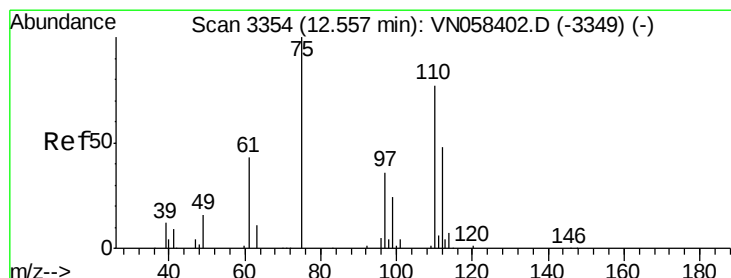
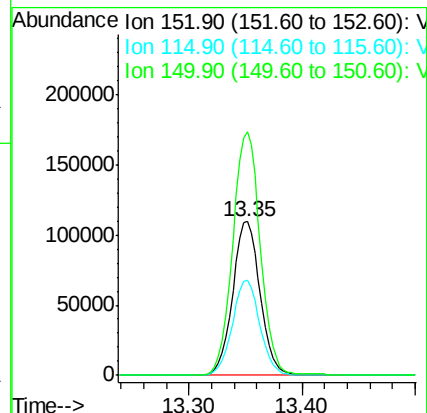
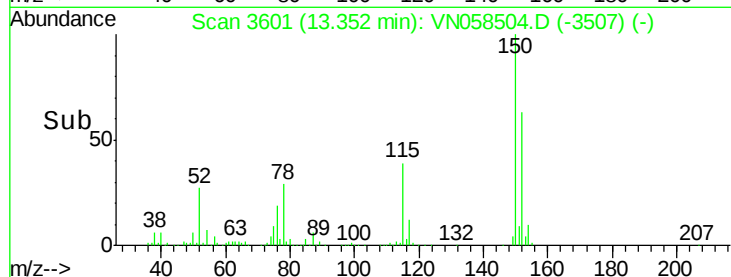
150 159.0 0.0 348.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 35.847 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058504.D

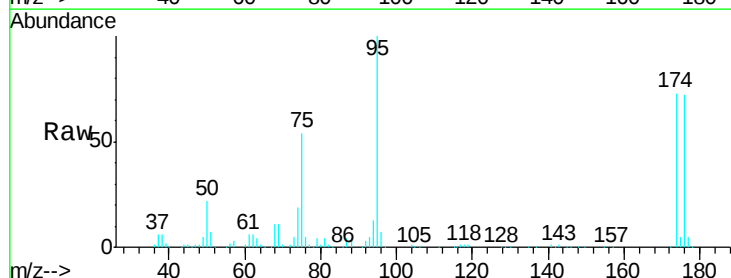
Acq: 3 Oct 2019 13:09

Tgt Ion: 75 Resp: 120718

Ion Ratio Lower Upper

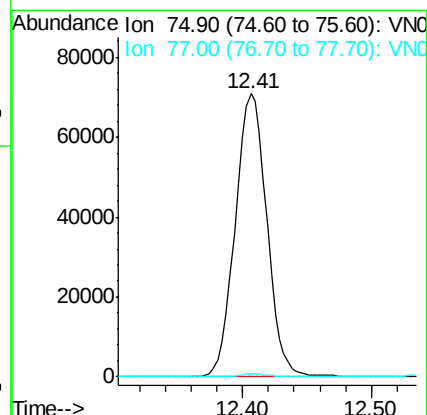
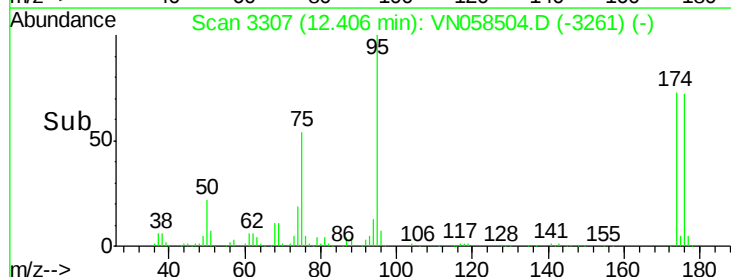
75 100

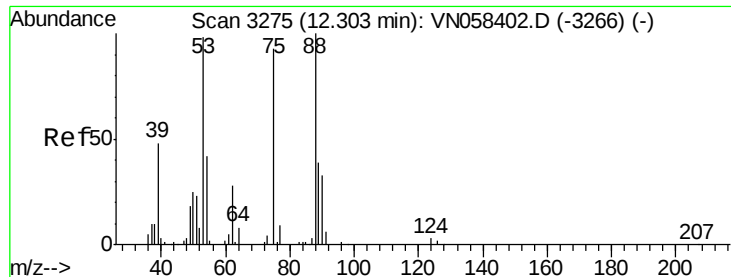
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

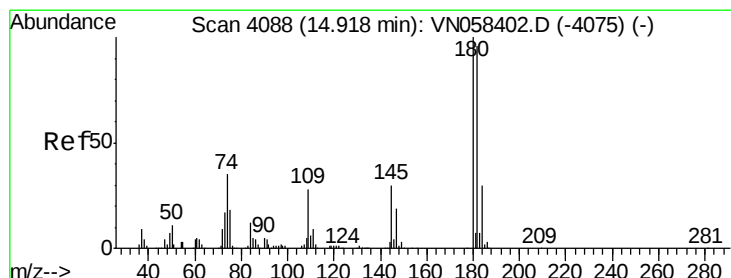
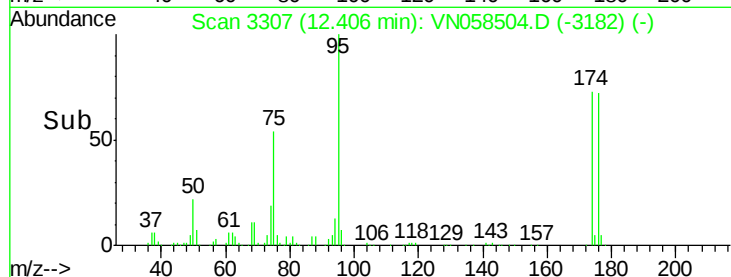
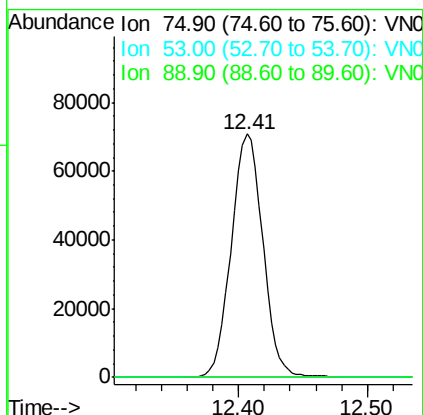
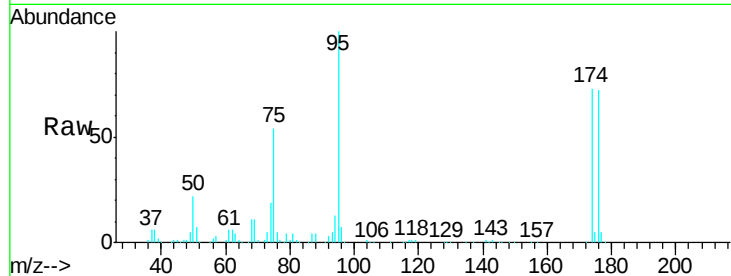




#81
 trans-1,4-Dichloro-2-butene
 Concen: 108.873 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058504.D
 Acq: 3 Oct 2019 13:09

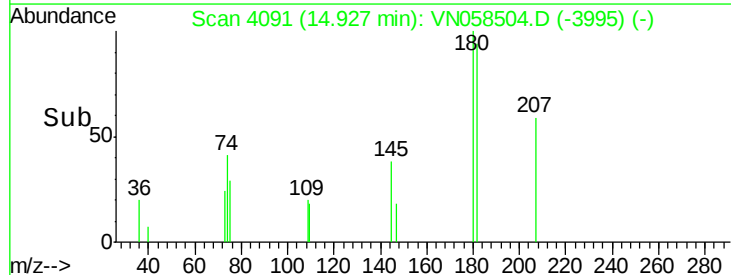
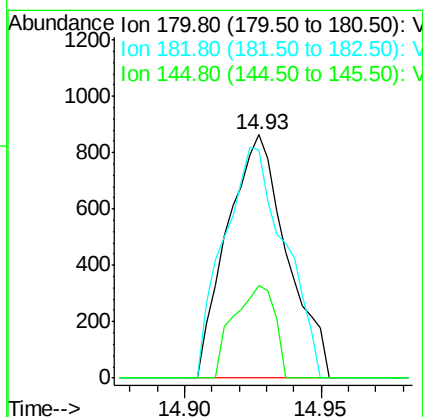
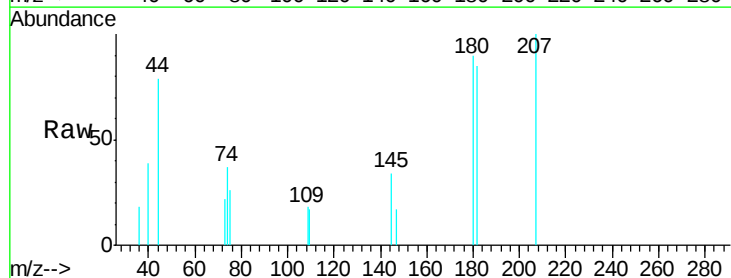
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1003WBL01

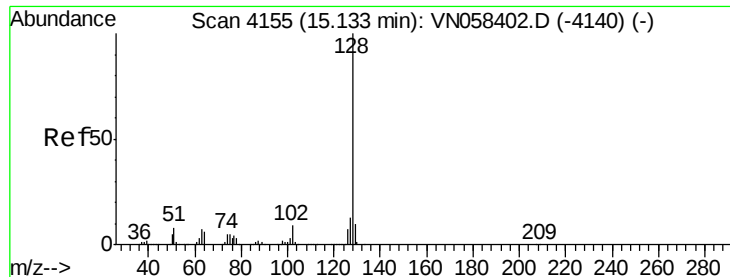
Tgt Ion: 75 Resp: 120718
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.4 128.0#
 89 0.0 35.0 52.4#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.426 ug/l
 RT: 14.93 min Scan# 4091
 Delta R.T. 0.01 min
 Lab File: VN058504.D
 Acq: 3 Oct 2019 13:09

Tgt Ion: 180 Resp: 1310
 Ion Ratio Lower Upper
 180 100
 182 97.0 47.4 142.3
 145 26.2 15.3 45.9





#95

Naphthalene

Concen: 0.639 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

Instrument :

MSVOA_N

ClientSampled :

VN1003WBL01

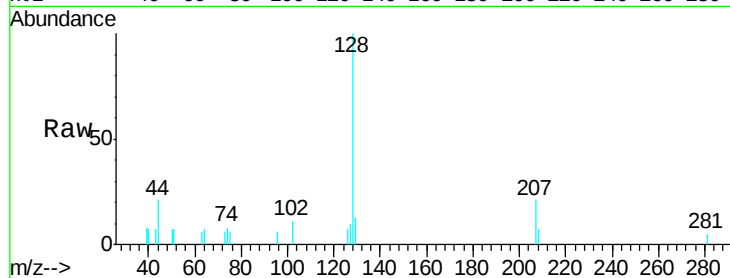
Tgt Ion:128 Resp: 6015

Ion Ratio Lower Upper

128 100

127 7.3 10.2 15.4#

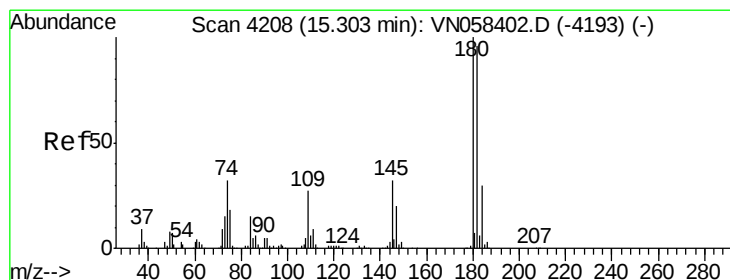
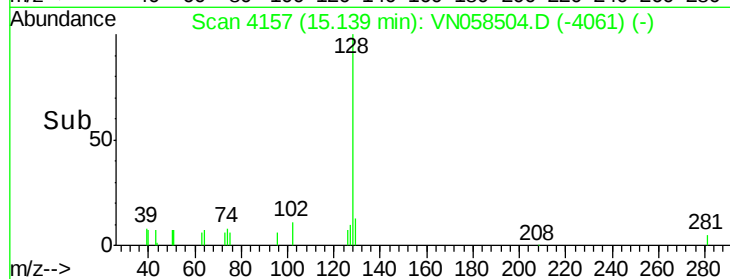
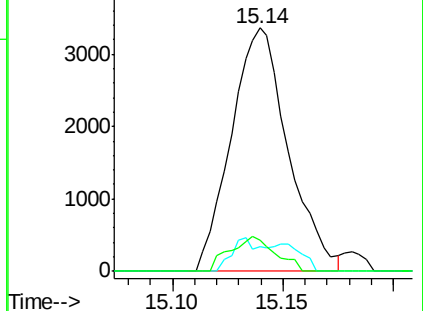
129 11.4 8.3 12.5



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: 0.529 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058504.D

Acq: 3 Oct 2019 13:09

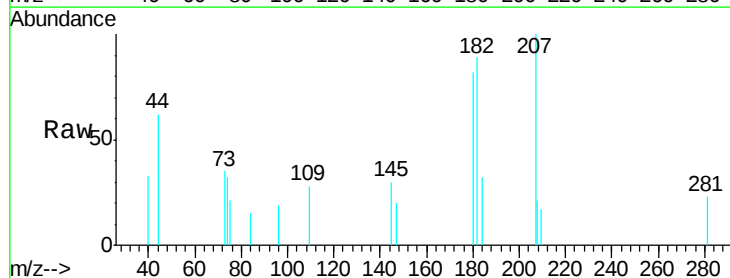
Tgt Ion:180 Resp: 1709

Ion Ratio Lower Upper

180 100

182 100.9 48.3 144.9

145 32.5 16.1 48.3



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

