

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042920\
 Data File : VN061189.D
 Acq On : 29 Apr 2020 13:51
 Operator : JC/MD
 Sample : L2414-06DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ST006RW149-200422DL

Quant Time: Apr 29 15:16:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 29 08:14:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	100341	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	177055	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	175691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	80083	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	79354	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
35) Dibromofluoromethane	7.55	113	53351	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
50) Toluene-d8	10.06	98	222693	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
62) 4-Bromofluorobenzene	12.37	95	86359	53.77	ug/l	0.00
Spiked Amount			Recovery	=	107.54%	

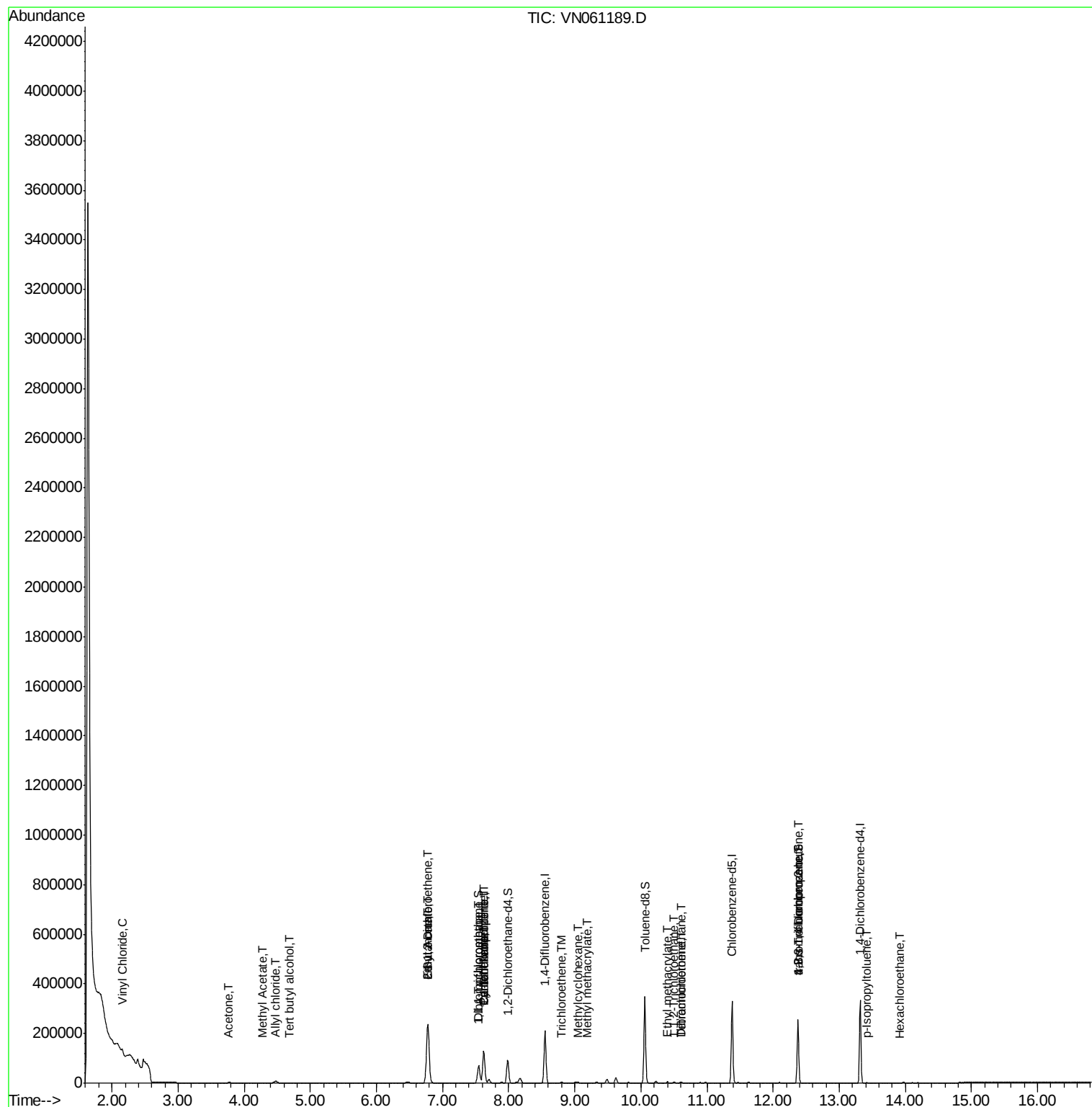
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.16	62	13425	9.172	ug/l	98
11) Tert butyl alcohol	4.67	59	226	1.063	ug/l #	72
14) Allyl chloride	4.48	41	4144	2.111	ug/l #	47
16) Acetone	3.78	43	4412	1.698	ug/l	96
18) Methyl Acetate	4.28	43	2543	1.931	ug/l #	63
25) 2-Butanone	6.77	43	614	0.654	ug/l #	1
27) cis-1,2-Dichloroethene	6.78	96	147874	109.307	ug/l	88
31) Cyclohexane	7.62	56	2997	1.298	ug/l #	16
32) 1,1,1-Trichloroethane	7.53	97	908	0.433	ug/l #	41
36) 1,1-Dichloropropene	7.62	75	9188	5.184	ug/l #	49
37) Ethyl Acetate	6.77	43	614	0.295	ug/l #	1
38) Carbon Tetrachloride	7.63	117	10523	8.496	ug/l #	16
39) Methylcyclohexane	9.04	83	908	0.457	ug/l	92
44) Trichloroethene	8.80	130	1707	1.196	ug/l	95
48) Methyl methacrylate	9.18	41	353	0.227	ug/l #	16
55) 1,1,2-Trichloroethane	10.50	97	1486	1.171	ug/l #	14
56) Ethyl methacrylate	10.40	69	586	2.978	ug/l #	1
60) Dibromochloromethane	10.60	129	1111	0.836	ug/l #	10
64) Tetrachloroethene	10.60	164	1287	0.846	ug/l	95
76) 1,2,3-Trichloropropane	12.38	75	48165	28.528	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	48165	72.445	ug/l #	8
86) p-Isopropyltoluene	13.42	119	1291	0.256	ug/l	96
90) Hexachloroethane	13.92	117	61	7.724	ug/l #	14

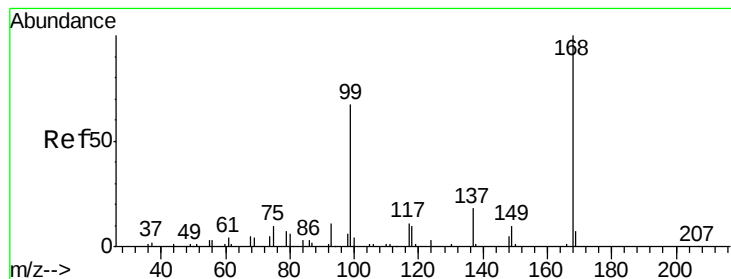
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Apr 29 08:14:26 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061189.D

Acq: 29 Apr 2020 13:51

Instrument :

MSVOA_N

ClientSampleId :

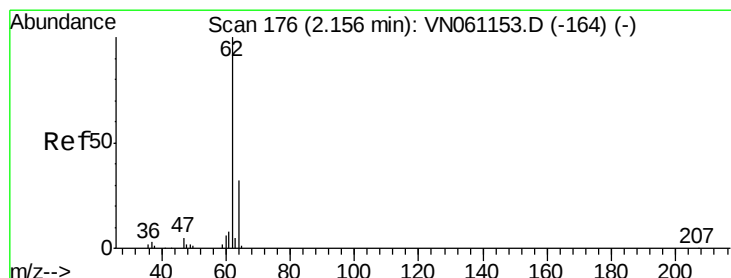
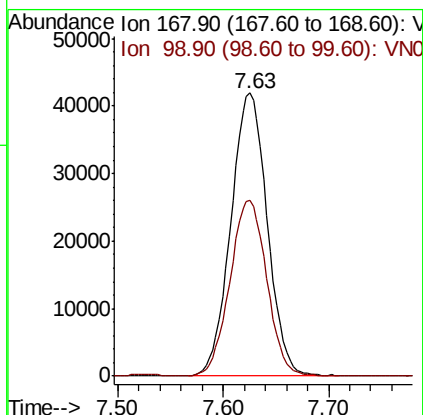
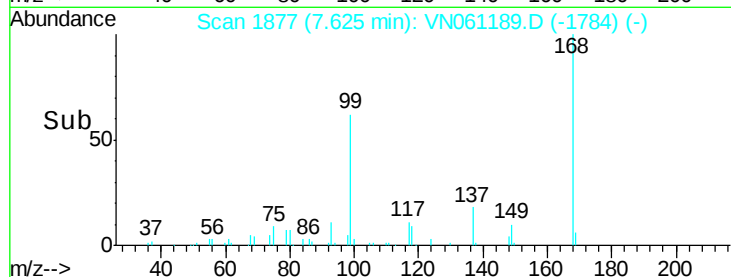
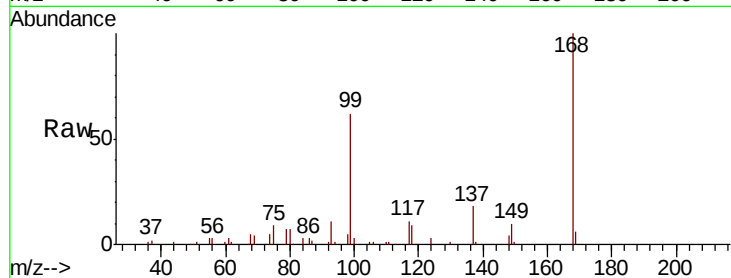
ST006RW149-200422DL

Tot Ion:168 Resp: 100341

Ion Ratio Lower Upper

168 100

99 62.1 51.2 76.8



#4

Vinyl Chloride

Concen: 9.172 ug/l

RT: 2.16 min Scan# 176

Delta R.T. 0.00 min

Lab File: VN061189.D

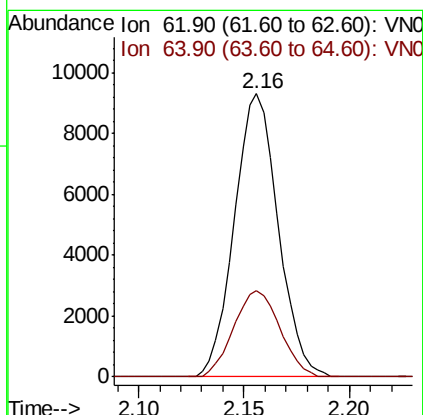
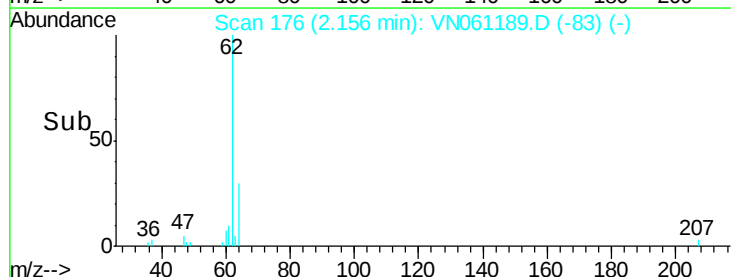
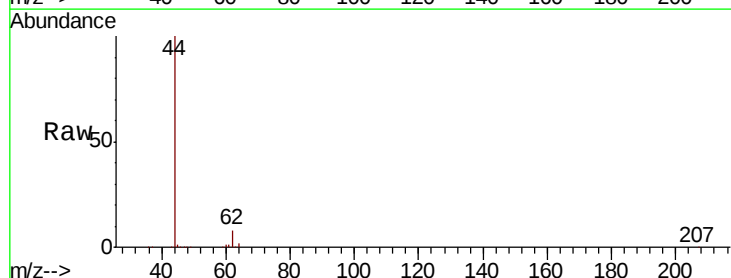
Acq: 29 Apr 2020 13:51

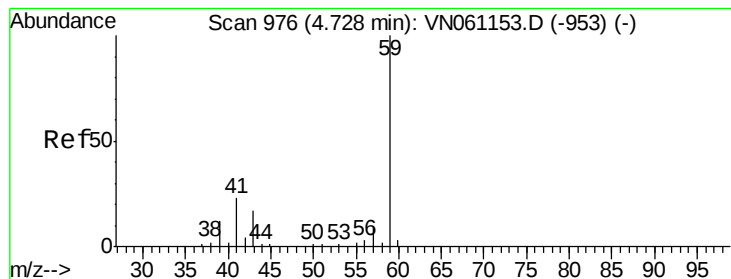
Tgt Ion: 62 Resp: 13425

Ion Ratio Lower Upper

62 100

64 30.4 25.2 37.8



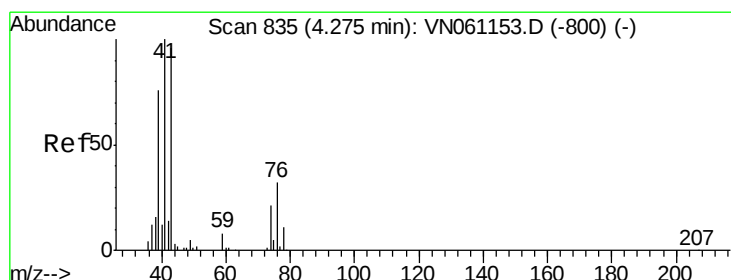
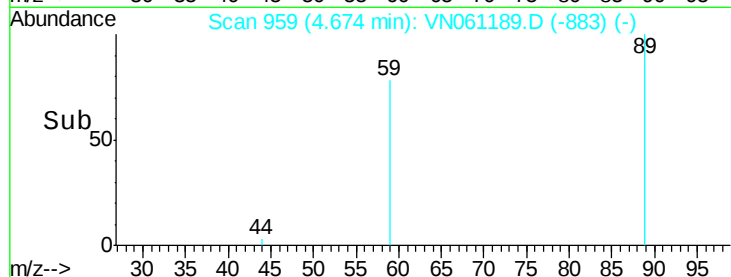
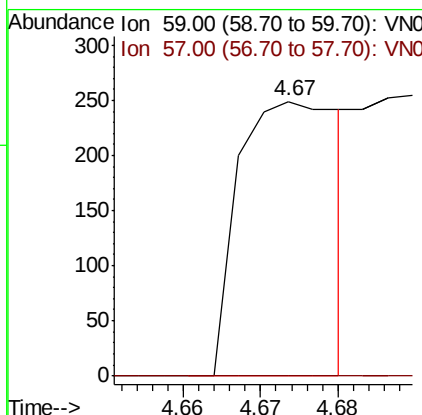
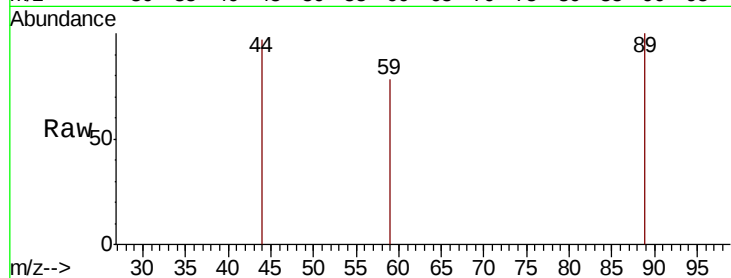


#11

Tert butyl alcohol
 Concen: 1.063 ug/l
 RT: 4.67 min Scan# 959
 Delta R.T. -0.05 min
 Lab File: VN061189.D
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Instrument :
 MSVOA_N
 ClientSampleId :
 ST006RW149-200422DL

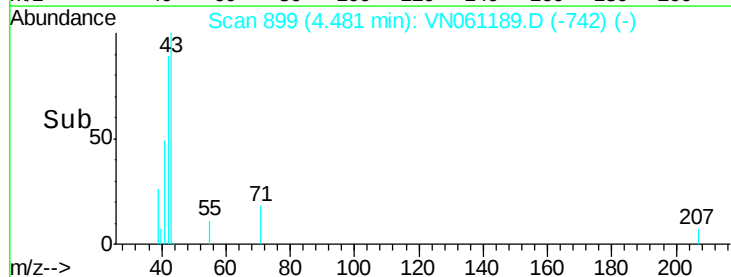
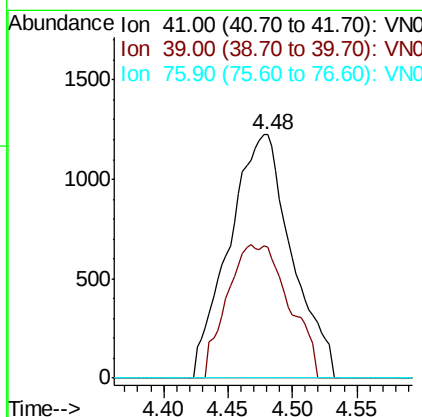
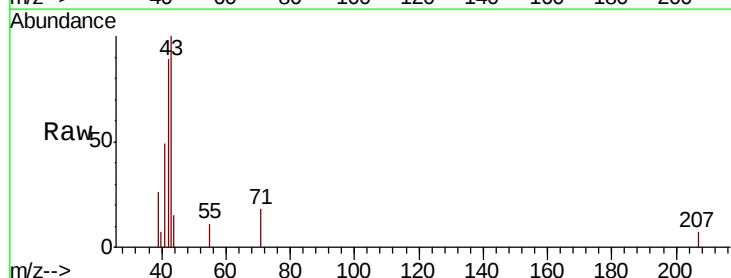
Tot Ion: 59 Resp: 226
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

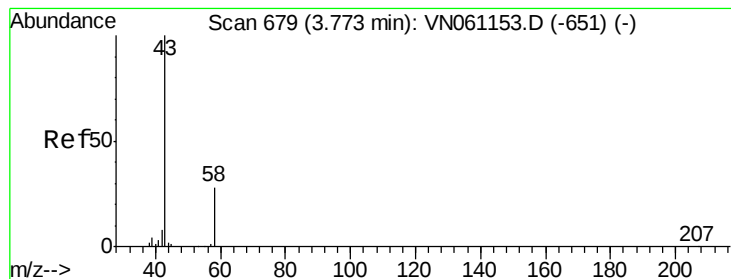


#14

Allyl chloride
 Concen: 2.111 ug/l
 RT: 4.48 min Scan# 899
 Delta R.T. 0.21 min
 Lab File: VN061189.D
 Acq: 29 Apr 2020 13:51

Tgt Ion: 41 Resp: 4144
 Ion Ratio Lower Upper
 41 100
 39 28.5 57.1 85.7#
 76 0.0 24.3 36.5#





#16

Acetone

Concen: 1.698 ug/l

RT: 3.78 min Scan# 680

Delta R.T. 0.00 min

Lab File: VN061189.D

Acq: 29 Apr 2020 13:51

Instrument :

MSVOA_N

ClientSampleId :

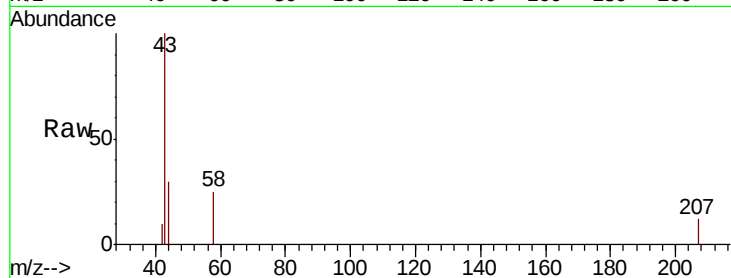
ST006RW149-200422DL

Tot Ion: 43 Resp: 4412

Ion Ratio Lower Upper

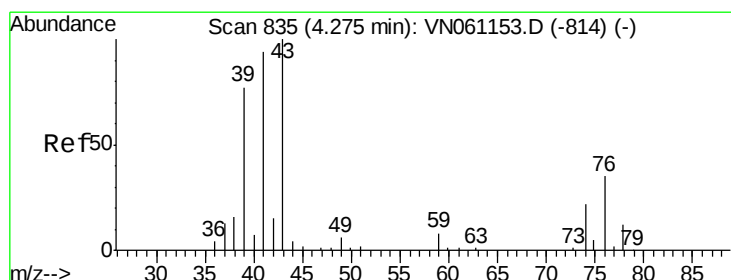
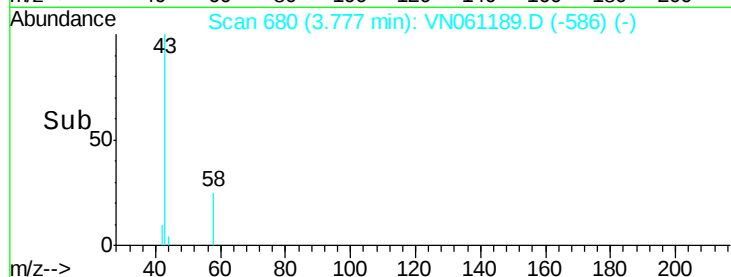
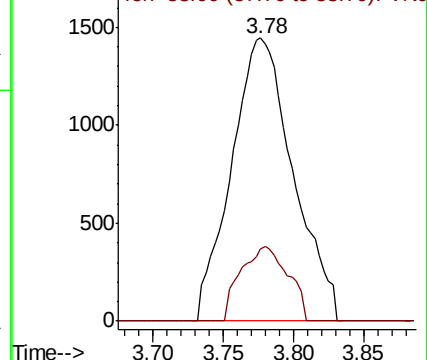
43 100

58 25.4 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.931 ug/l

RT: 4.28 min Scan# 837

Delta R.T. 0.01 min

Lab File: VN061189.D

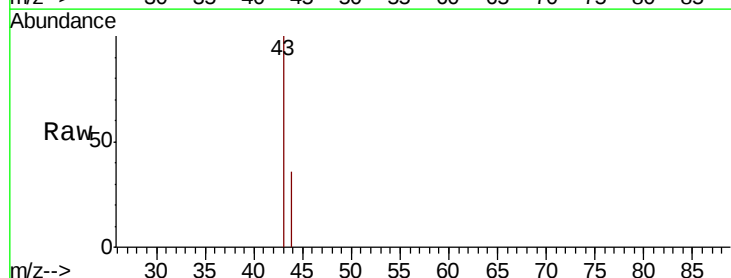
Acq: 29 Apr 2020 13:51

Tgt Ion: 43 Resp: 2543

Ion Ratio Lower Upper

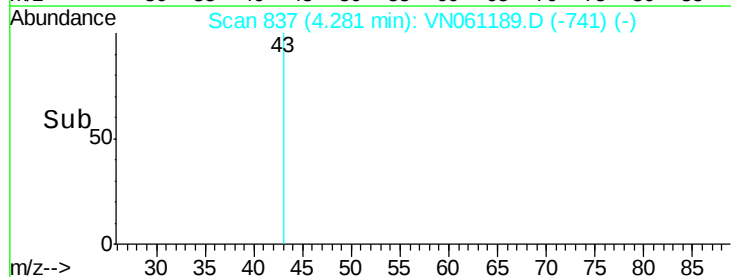
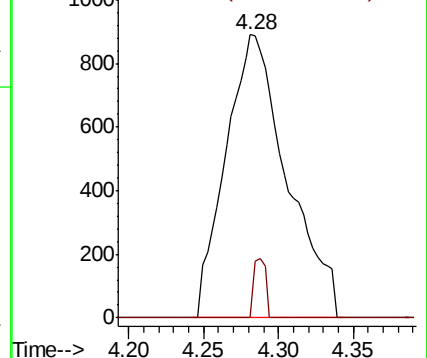
43 100

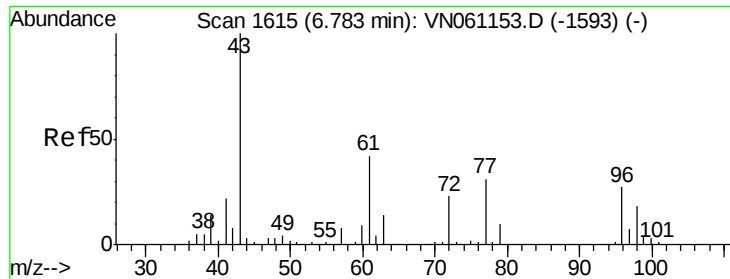
74 4.0 17.0 25.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

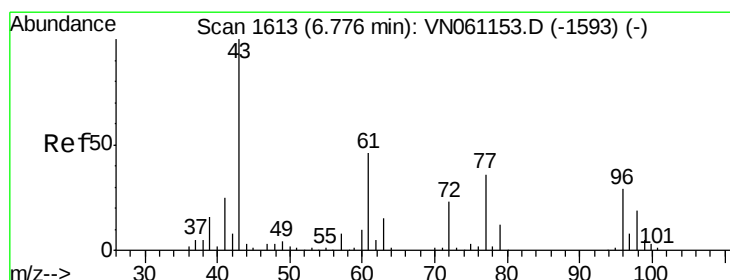
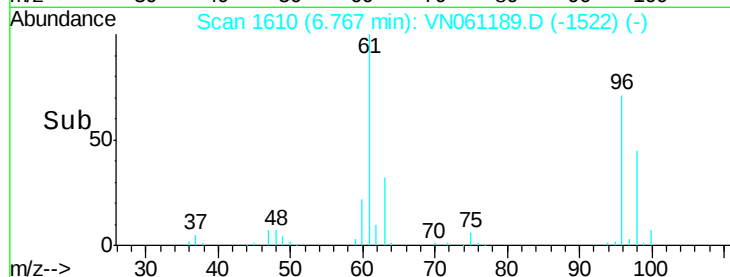
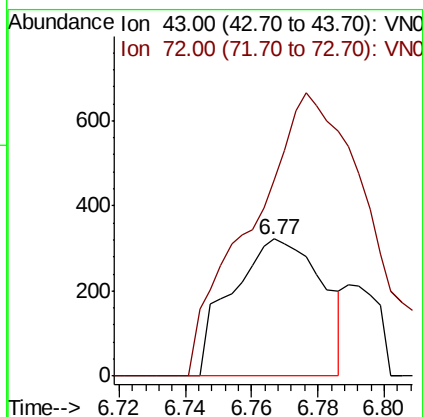
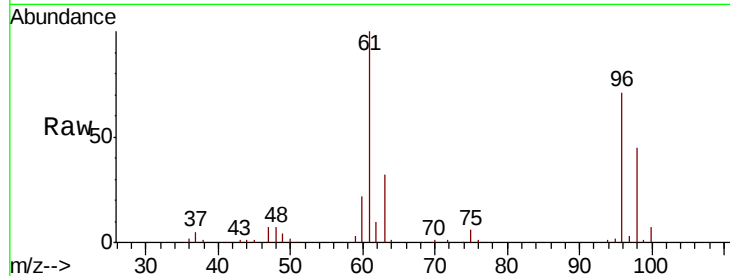




#25
2-Butanone
Concen: 0.654 ug/l
RT: 6.77 min Scan# 1610
Delta R.T. -0.02 min
Lab File: VN061189.D
Acq: 29 Apr 2020 13:51

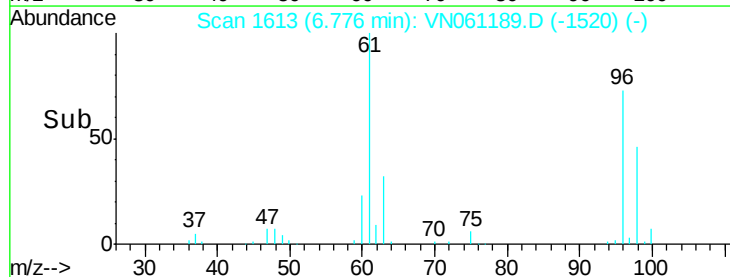
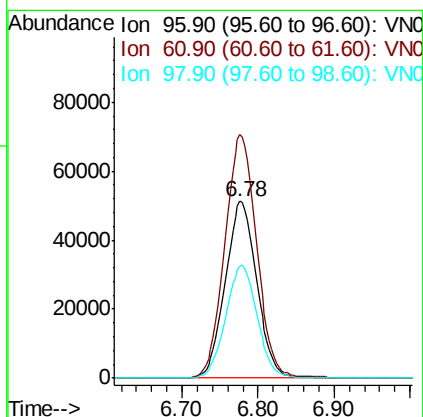
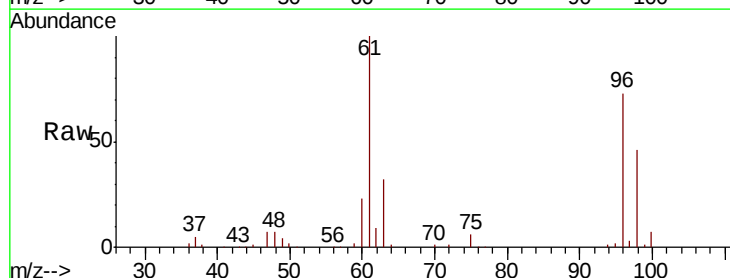
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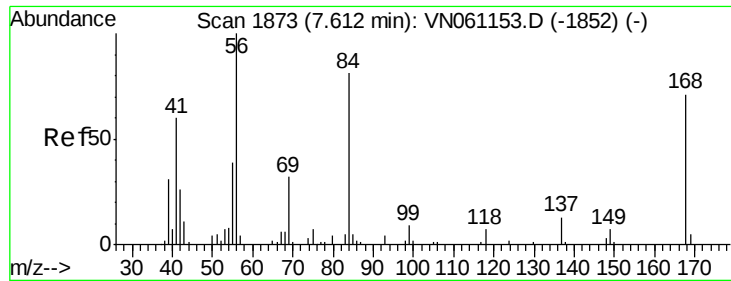
Tot Ion: 43 Resp: 614
Ion Ratio Lower Upper
43 100
72 143.2 18.2 27.4#



#27
cis-1,2-Dichloroethene
Concen: 109.307 ug/l
RT: 6.78 min Scan# 1613
Delta R.T. 0.00 min
Lab File: VN061189.D
Acq: 29 Apr 2020 13:51

Tgt Ion: 96 Resp: 147874
Ion Ratio Lower Upper
96 100
61 138.7 0.0 322.0
98 63.7 0.0 129.6

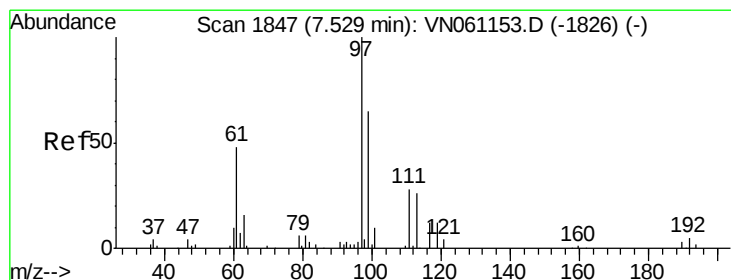
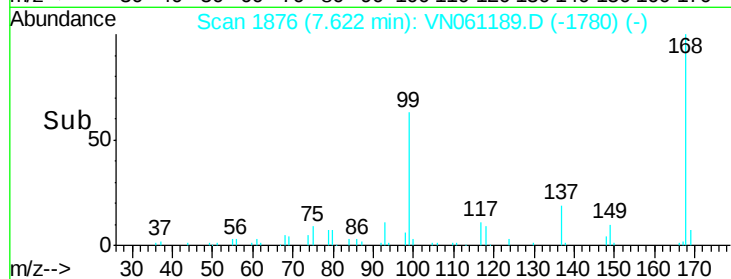
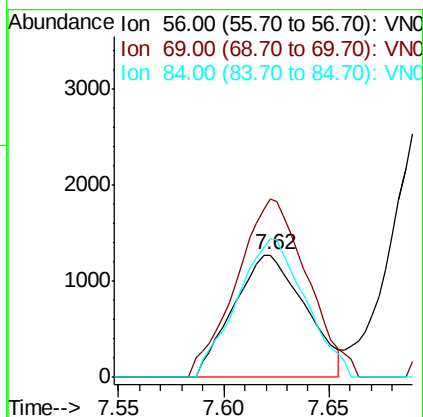
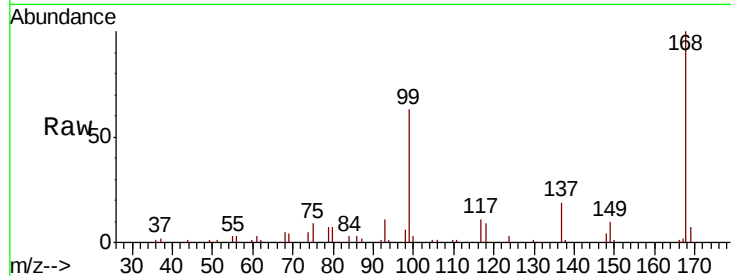




#31
Cyclohexane
Concen: 1.298 ug/l
RT: 7.62 min Scan# 1876
Delta R.T. 0.01 min
Lab File: VN061189.D
Acq: 29 Apr 2020 13:51

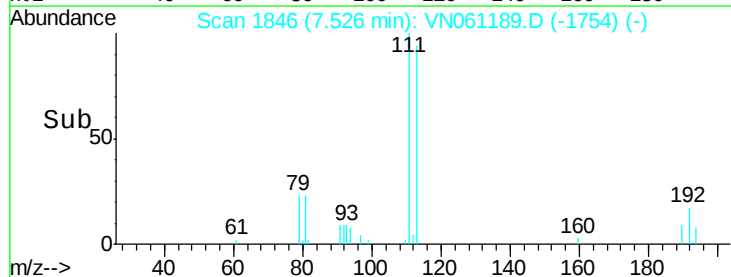
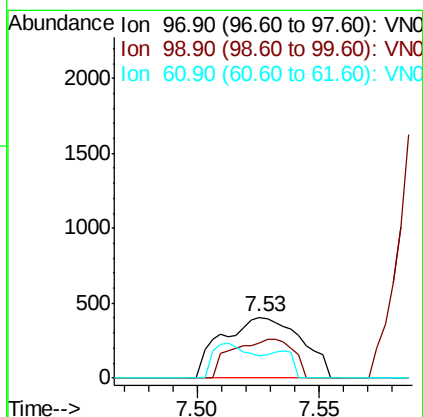
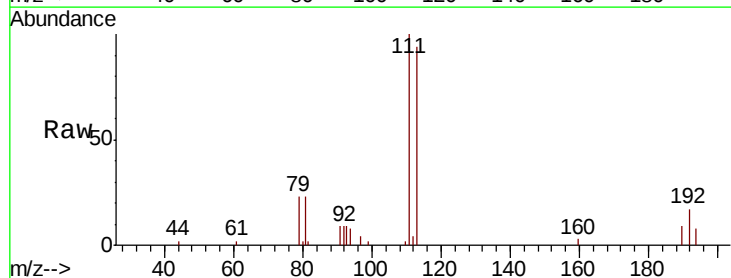
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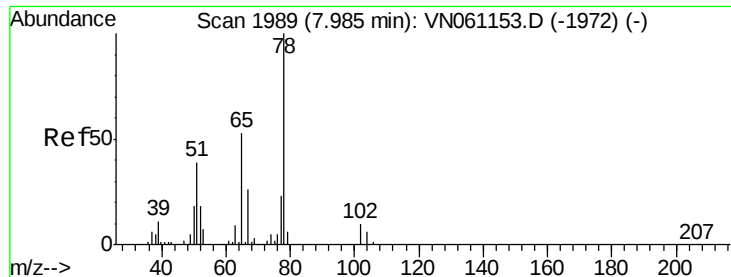
Tot Ion: 56 Resp: 2997
Ion Ratio Lower Upper
56 100
69 145.7 25.7 38.5#
84 113.5 64.6 97.0#



#32
1,1,1-Trichloroethane
Concen: 0.433 ug/l
RT: 7.53 min Scan# 1846
Delta R.T. -0.00 min
Lab File: VN061189.D
Acq: 29 Apr 2020 13:51

Tgt Ion: 97 Resp: 908
Ion Ratio Lower Upper
97 100
99 0.0 51.3 76.9#
61 28.4 38.6 57.8#





#33

1,2-Dichloroethane-d4

Concen: 49.980 ug/l

RT: 7.99 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN061189.D

Acq: 29 Apr 2020 13:51

Instrument :

MSVOA_N

ClientSampleId :

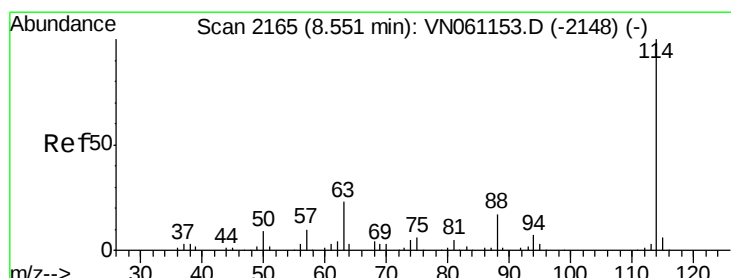
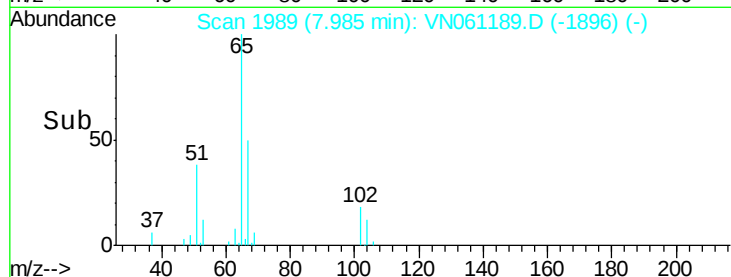
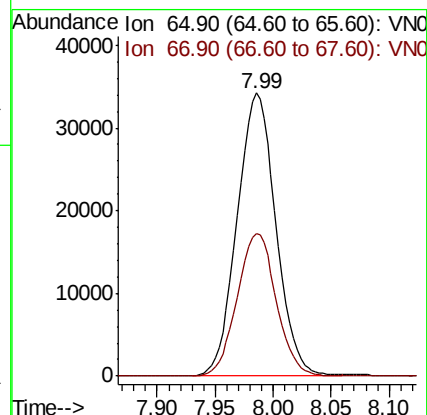
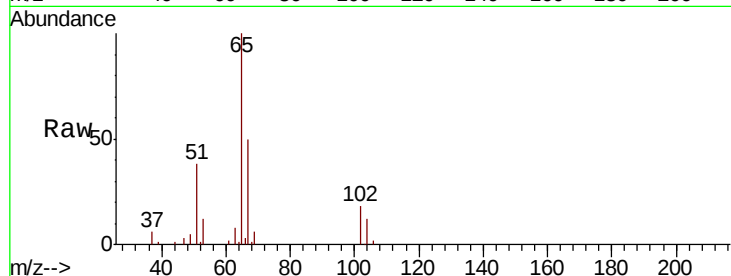
ST006RW149-200422DL

Tot Ion: 65 Resp: 79354

Ion Ratio Lower Upper

65 100

67 50.5 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VN061189.D

Acq: 29 Apr 2020 13:51

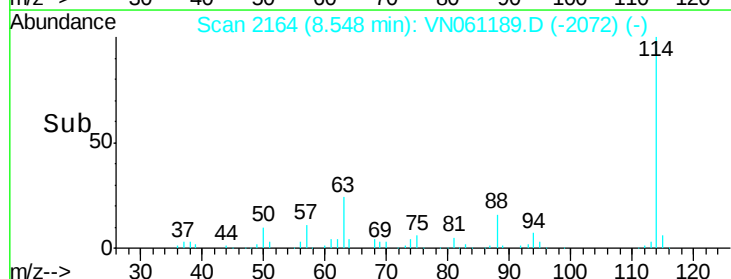
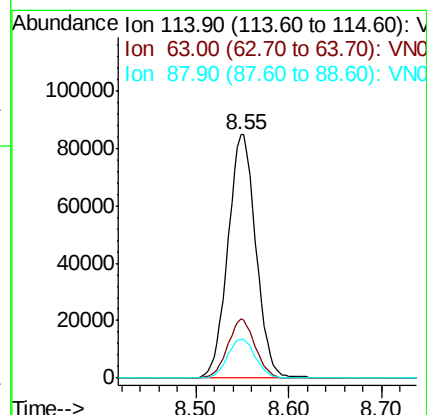
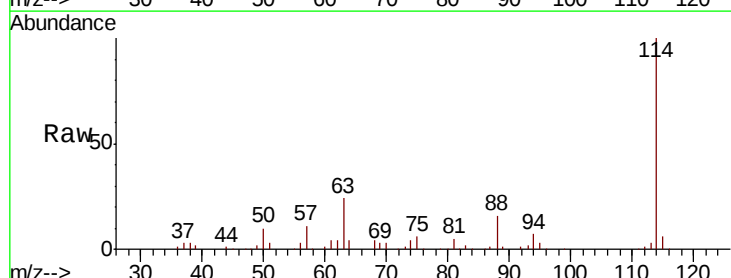
Tgt Ion: 114 Resp: 177055

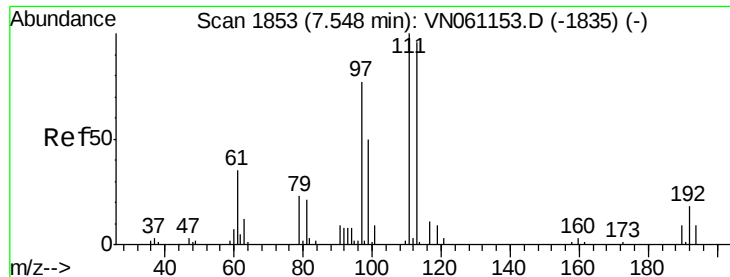
Ion Ratio Lower Upper

114 100

63 24.1 0.0 46.6

88 16.2 0.0 33.4

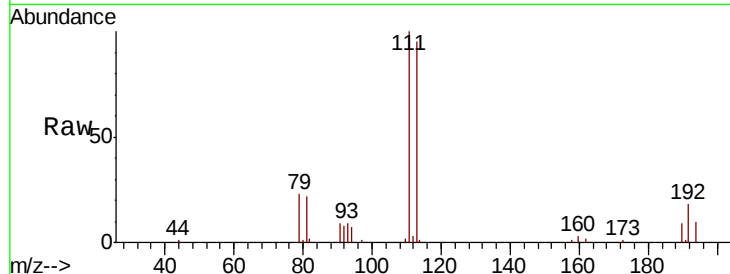




#35
 Dibromofluoromethane
 Concen: 50.958 ug/l
 RT: 7.55 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VN061189.D
 Acq: 29 Apr 2020 13:51

Instrument :
 MSVOA_N
 ClientSampleId :
 ST006RW149-200422DL

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.5	82.9	124.3
192	18.6	14.7	22.1

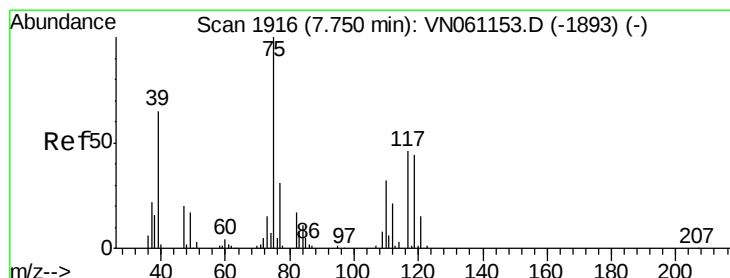
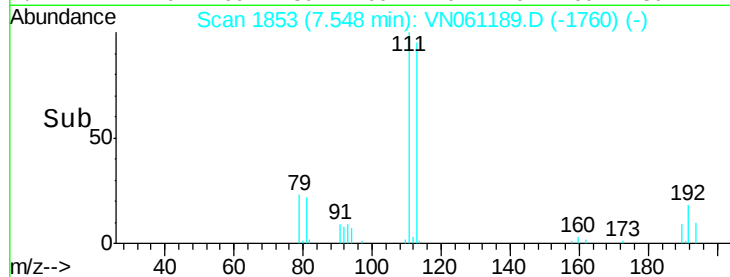
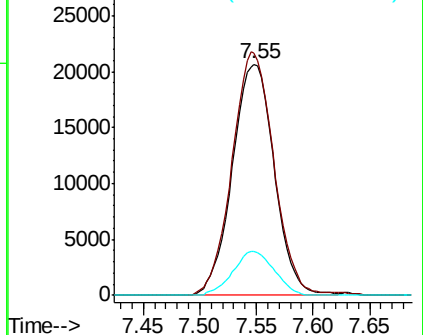


Abundance

Ion 112.80 (112.50 to 113.50): V

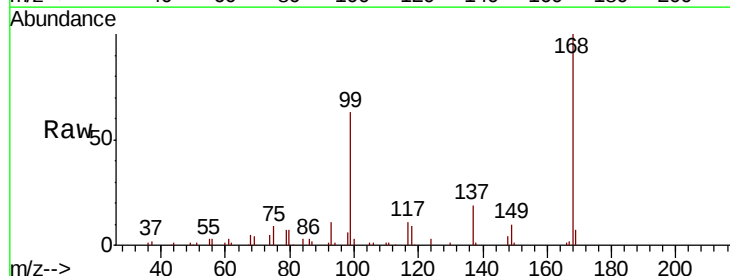
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 5.184 ug/l
 RT: 7.62 min Scan# 1876
 Delta R.T. -0.13 min
 Lab File: VN061189.D
 Acq: 29 Apr 2020 13:51

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.7	16.0	48.0#
77	0.0	24.6	37.0#

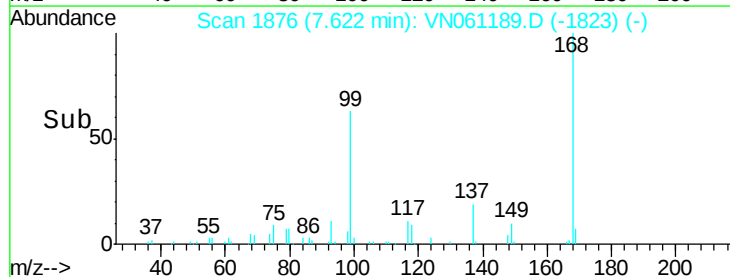
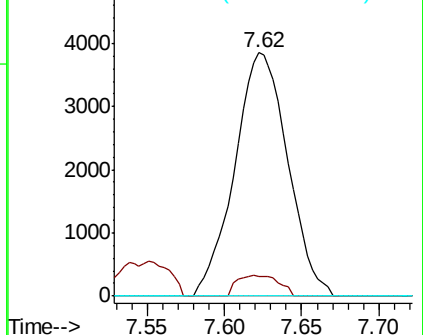


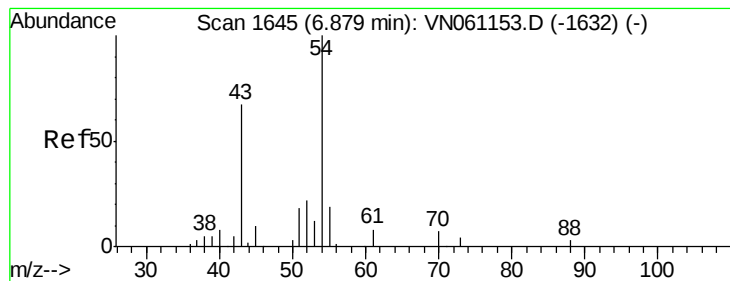
Abundance

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





#37

Ethyl Acetate

Concen: 0.295 ug/l

RT: 6.77 min Scan# 1610

Delta R.T. -0.11 min

Lab File: VN061189.D

Acq: 29 Apr 2020 13:51

Instrument :

MSVOA_N

ClientSampleId :

ST006RW149-200422DL

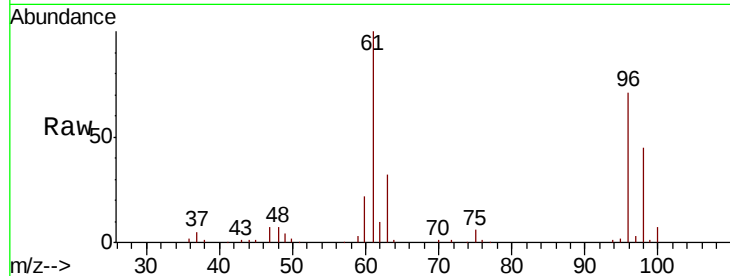
Tot Ion: 43 Resp: 614

Ion Ratio Lower Upper

43 100

61 33404.2 10.2 15.2#

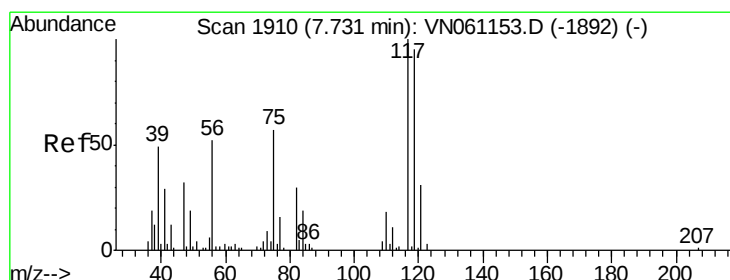
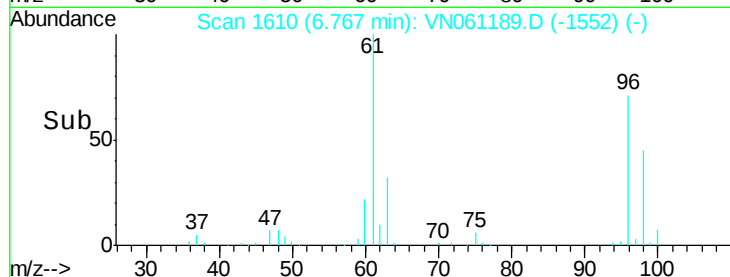
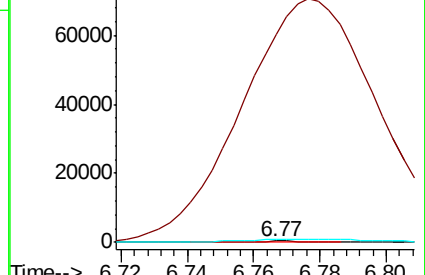
70 393.5 7.2 10.8#



Abundance Ion 43.00 (42.70 to 43.70): VN061189.D (-1552) (-)

Ion 60.90 (60.60 to 61.60): VN061189.D (-1552) (-)

Ion 70.00 (69.70 to 70.70): VN061189.D (-1552) (-)



#38

Carbon Tetrachloride

Concen: 8.496 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. -0.11 min

Lab File: VN061189.D

Acq: 29 Apr 2020 13:51

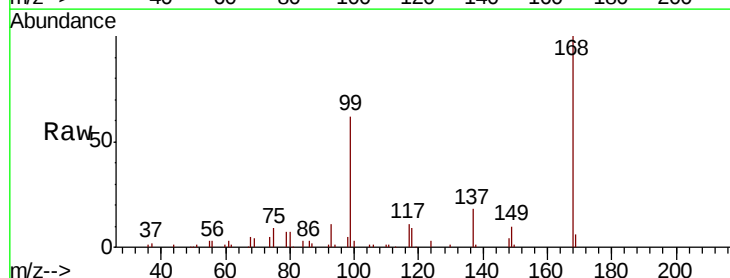
Tgt Ion: 117 Resp: 10523

Ion Ratio Lower Upper

117 100

119 4.5 75.8 113.6#

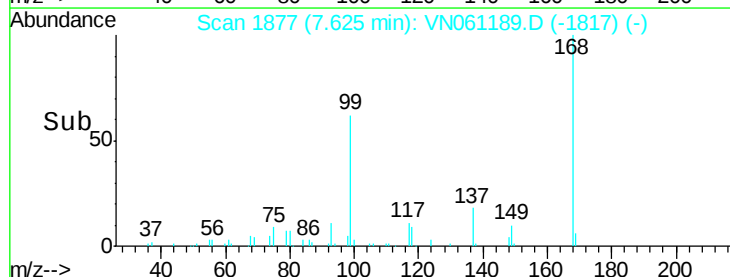
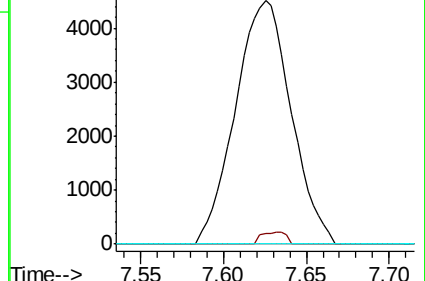
121 0.0 24.7 37.1#

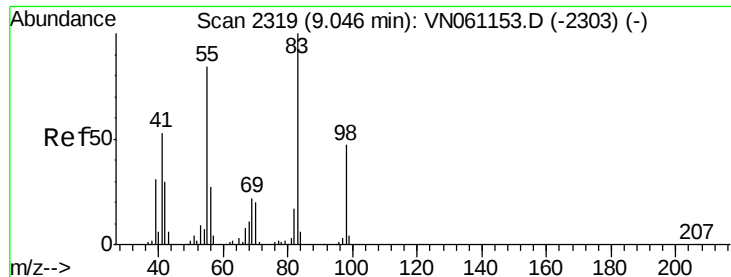


Abundance Ion 116.80 (116.50 to 117.50): VN061189.D (-1817) (-)

Ion 118.80 (118.50 to 119.50): VN061189.D (-1817) (-)

Ion 120.80 (120.50 to 121.50): VN061189.D (-1817) (-)

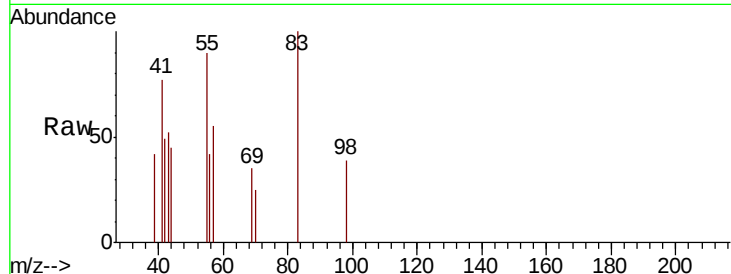




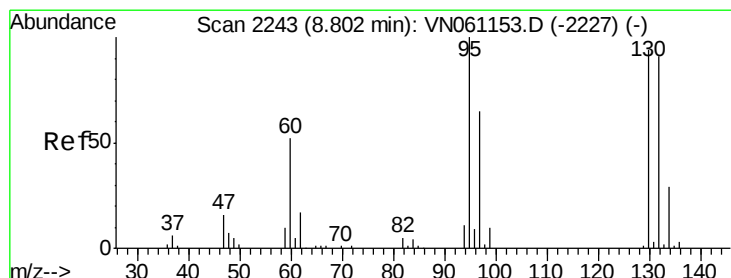
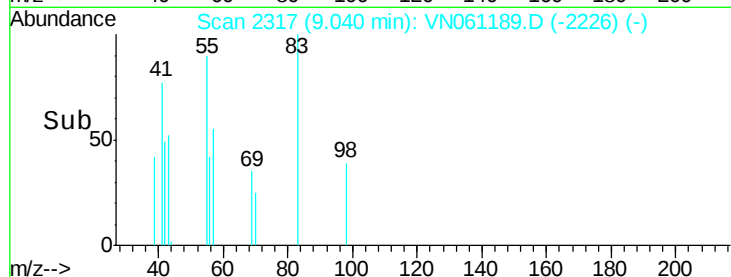
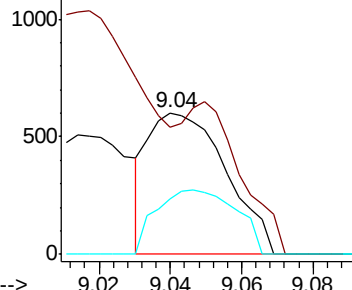
#39
Methvlcvclohexane
Concen: 0.457 ug/l
RT: 9.04 min Scan# 2317
Delta R.T. -0.01 min
Lab File: VN061189.D
Acq: 29 Apr 2020 13:51

Instrument :
MSVOA_N
ClientSampleId :
ST006RW149-200422DL

Tot Ion: 83 Resp: 908
Ion Ratio Lower Upper
83 100
55 89.9 67.3 100.9
98 39.0 37.7 56.5

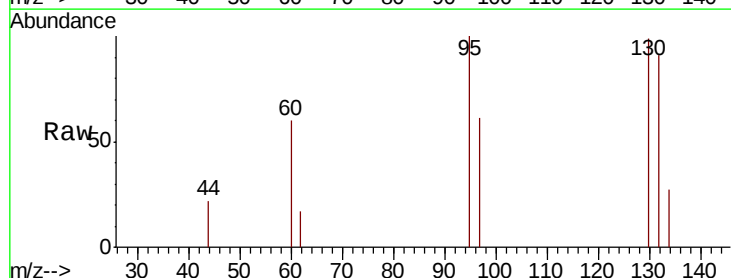


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

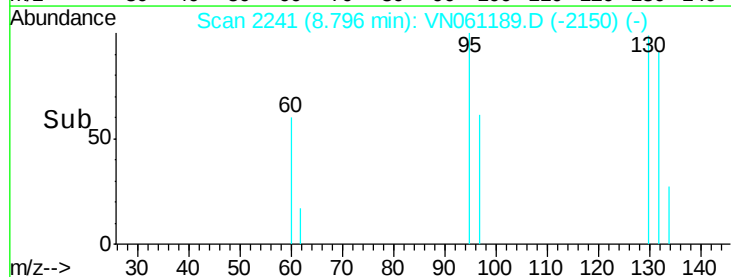
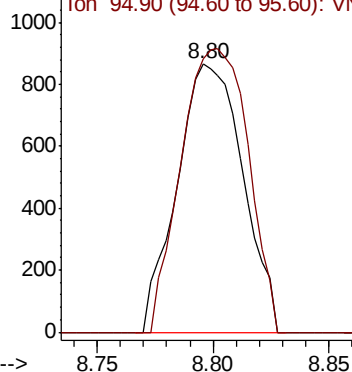


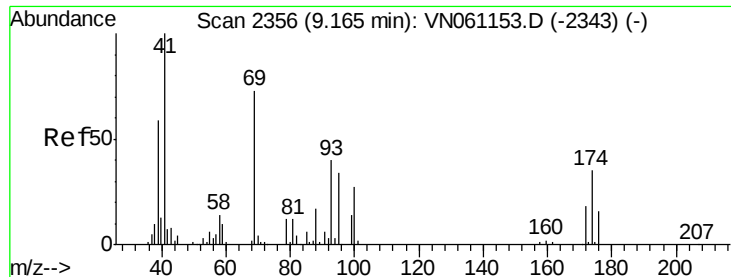
#44
Trichloroethene
Concen: 1.196 ug/l
RT: 8.80 min Scan# 2241
Delta R.T. -0.01 min
Lab File: VN061189.D
Acq: 29 Apr 2020 13:51

Tgt Ion: 130 Resp: 1707
Ion Ratio Lower Upper
130 100
95 101.5 0.0 212.4



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0





#48

Methvl methacrylate

Concen: 0.227 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. 0.02 min

Lab File: VN061189.D

Acq: 29 Apr 2020 13:51

Instrument :

MSVOA_N

ClientSampleId :

ST006RW149-200422DL

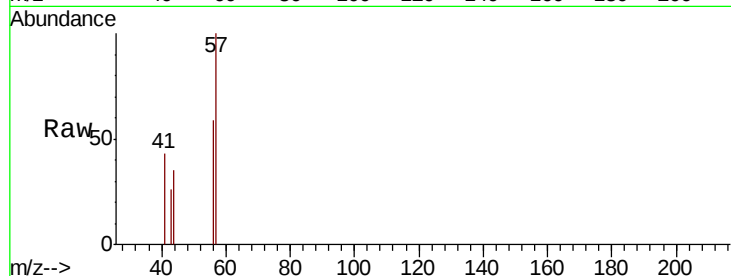
Tot Ion: 41 Resp: 353

Ion Ratio Lower Upper

41 100

69 0.0 60.3 90.5#

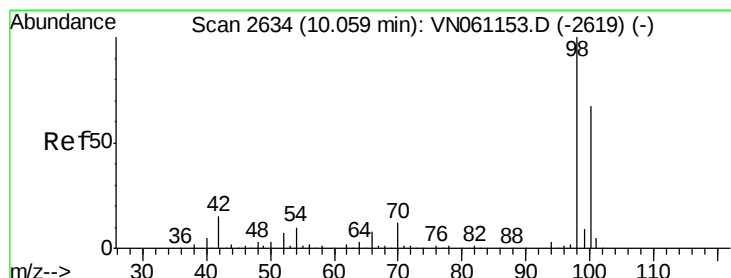
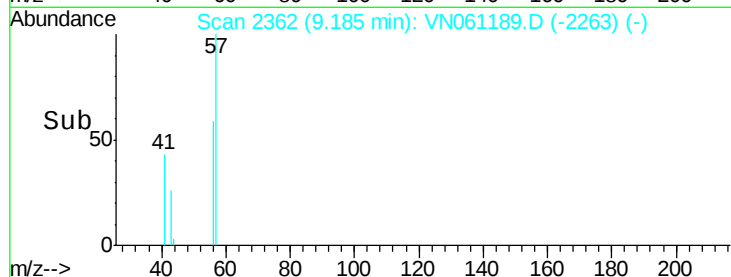
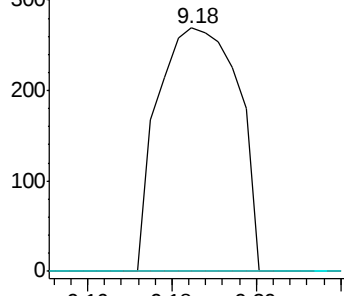
39 0.0 47.4 71.0#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#50

Toluene-d8

Concen: 52.177 ug/l

RT: 10.06 min Scan# 2634

Delta R.T. 0.00 min

Lab File: VN061189.D

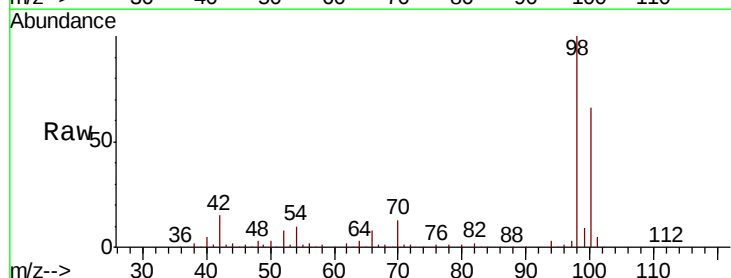
Acq: 29 Apr 2020 13:51

Tgt Ion: 98 Resp: 222693

Ion Ratio Lower Upper

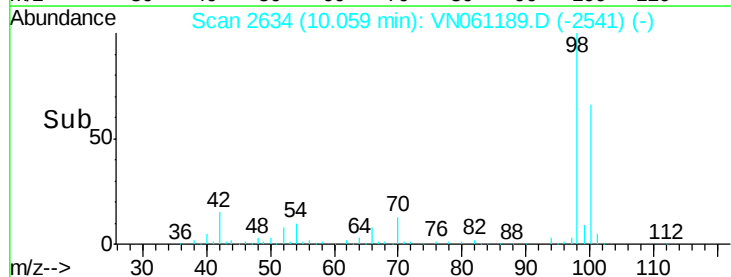
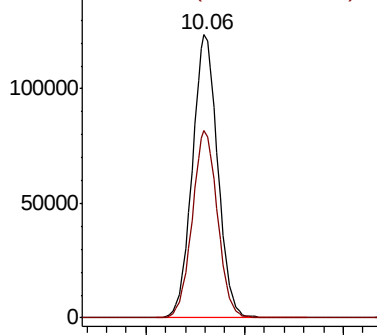
98 100

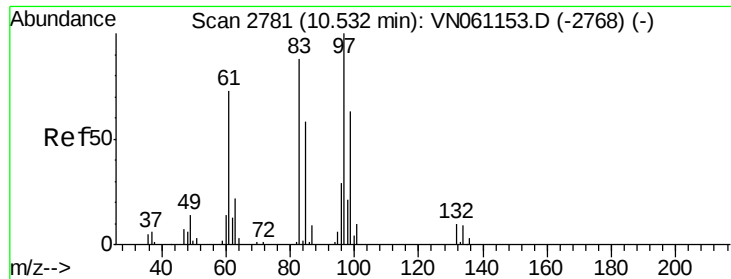
100 65.8 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

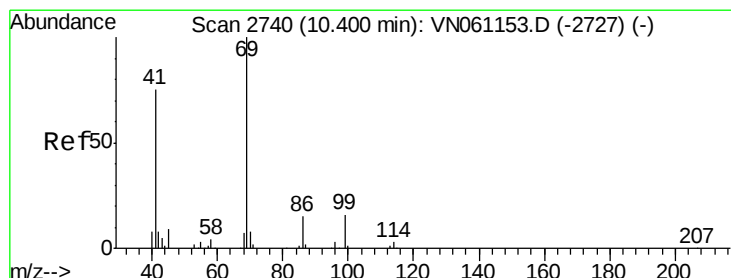
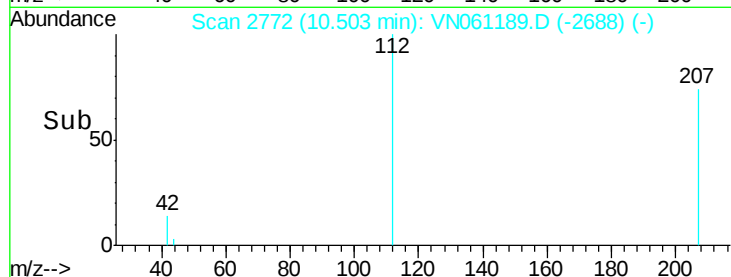
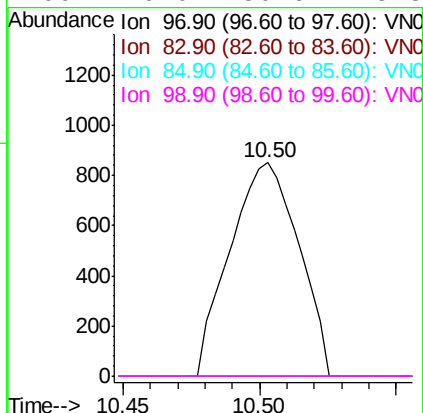
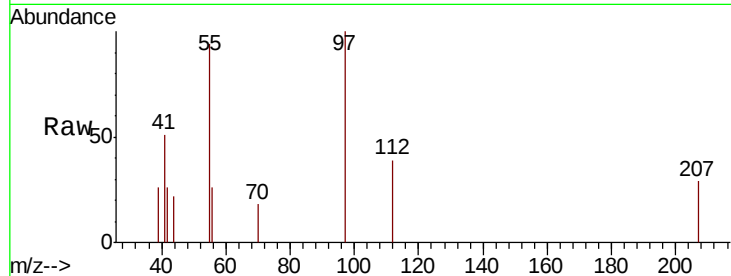




#55
 1,1,2-Trichloroethane
 Concen: 1.171 ug/l
 RT: 10.50 min Scan# 2772
 Delta R.T. -0.03 min
 Lab File: VN061189.D
 Acq: 29 Apr 2020 13:51

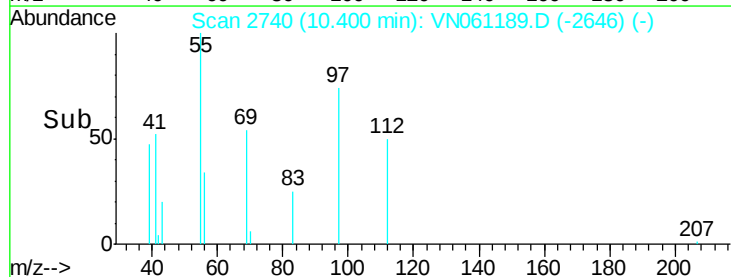
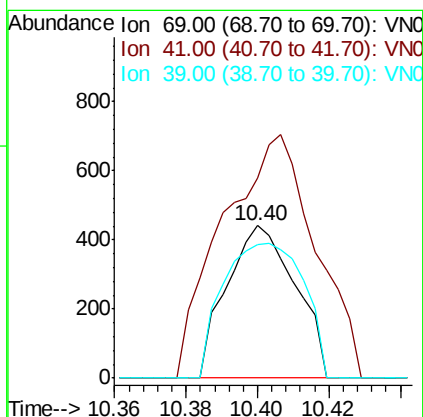
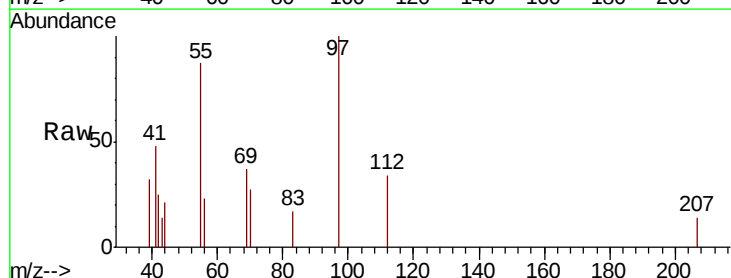
Instrument :
 MSVOA_N
 ClientSampleId :
 ST006RW149-200422DL

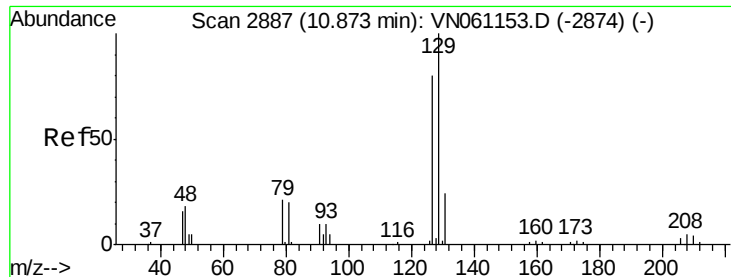
Tot Ion: 97 Resp: 1486
 Ion Ratio Lower Upper
 97 100
 83 0.0 70.6 106.0#
 85 0.0 46.4 69.6#
 99 0.0 50.6 75.8#



#56
 Ethyl methacrylate
 Concen: 2.978 ug/l
 RT: 10.40 min Scan# 2740
 Delta R.T. 0.00 min
 Lab File: VN061189.D
 Acq: 29 Apr 2020 13:51

Tgt Ion: 69 Resp: 586
 Ion Ratio Lower Upper
 69 100
 41 215.5 60.3 90.5#
 39 103.8 35.9 53.9#





#60

Dibromochloromethane

Concen: 0.836 ug/l

RT: 10.60 min Scan# 2803

Delta R.T. -0.27 min

Lab File: VN061189.D

Acq: 29 Apr 2020 13:51

Instrument :

MSVOA_N

ClientSampleId :

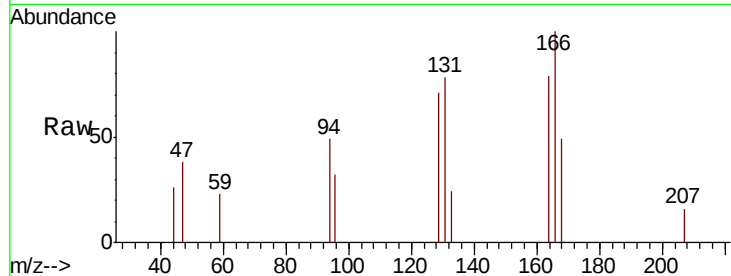
ST006RW149-200422DL

Tot Ion:129 Resp: 1111

Ion Ratio Lower Upper

129 100

127 0.0 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.60

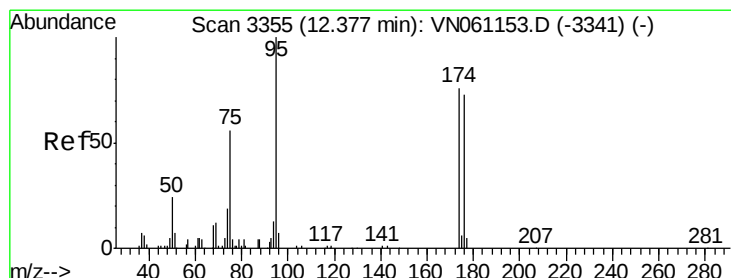
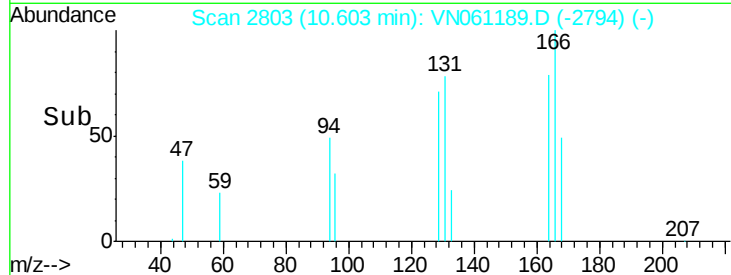
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 53.769 ug/l

RT: 12.37 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VN061189.D

Acq: 29 Apr 2020 13:51

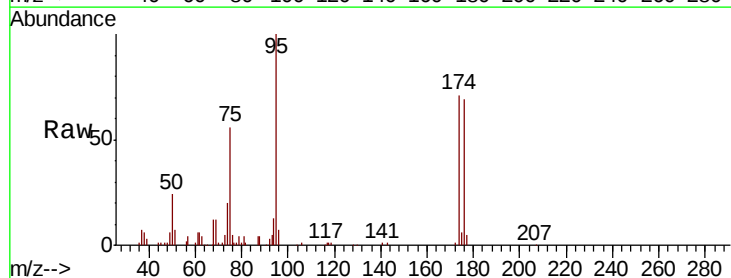
Tgt Ion: 95 Resp: 86359

Ion Ratio Lower Upper

95 100

174 72.8 0.0 149.4

176 70.9 0.0 144.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.37

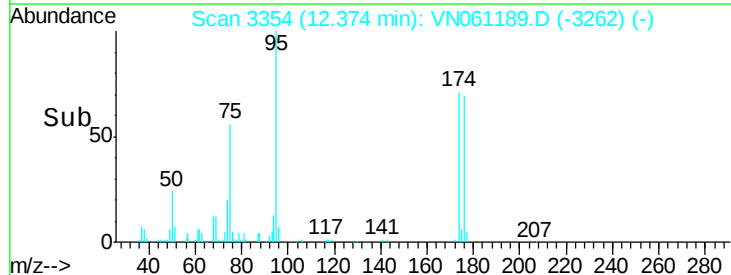
60000

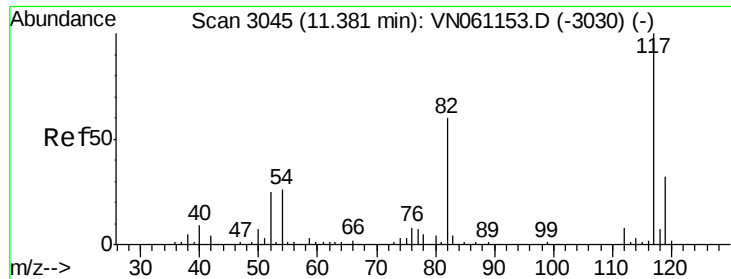
40000

20000

0

Time-->

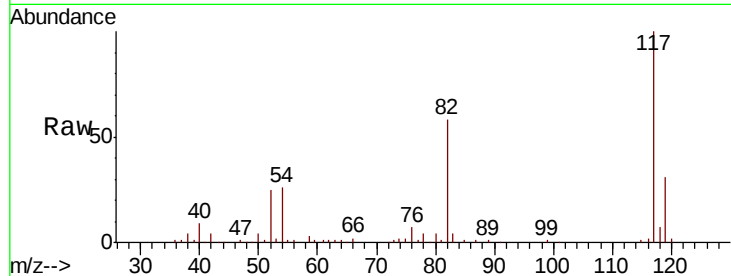




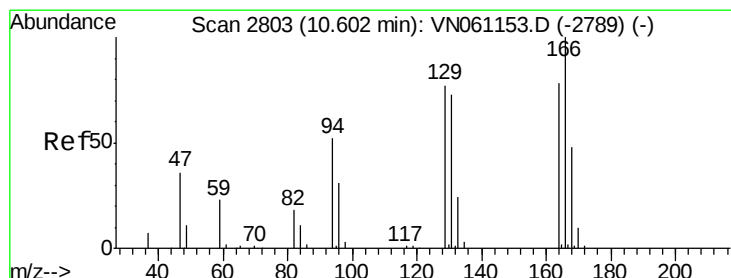
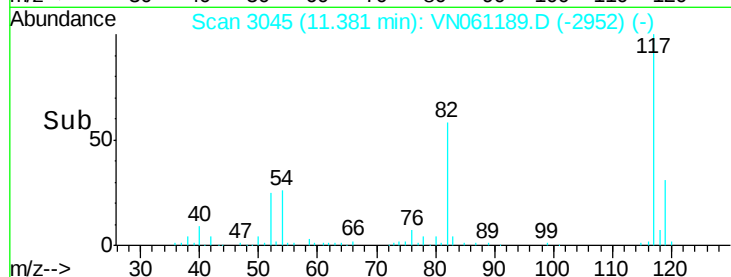
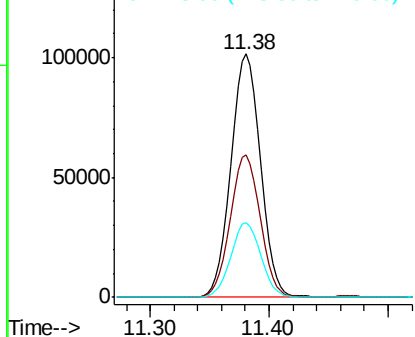
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 3045
Delta R.T. 0.00 min
Lab File: VN061189.D
Acq: 29 Apr 2020 13:51

Instrument :
MSVOA_N
ClientSampleId :
ST006RW149-200422DL

Tot Ion:117 Resp: 175691
Ion Ratio Lower Upper
117 100
82 58.3 47.8 71.8
119 30.8 25.8 38.6

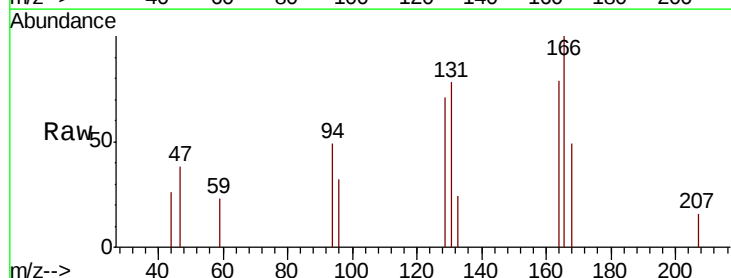


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

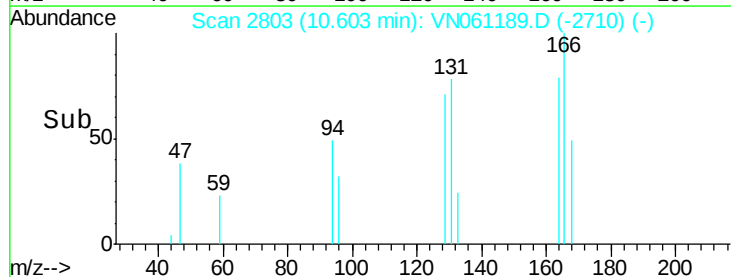
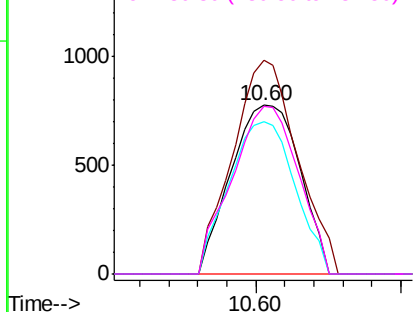


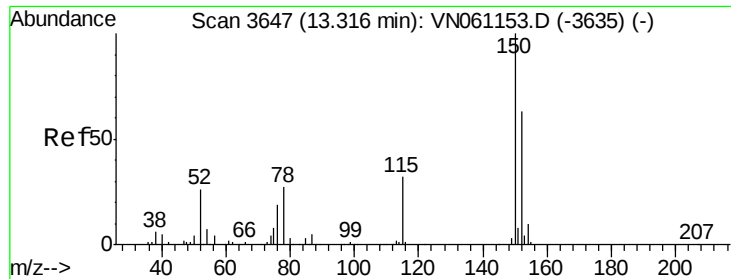
#64
Tetrachloroethene
Concen: 0.846 ug/l
RT: 10.60 min Scan# 2803
Delta R.T. 0.00 min
Lab File: VN061189.D
Acq: 29 Apr 2020 13:51

Tgt Ion:164 Resp: 1287
Ion Ratio Lower Upper
164 100
166 126.6 102.0 153.0
129 90.0 78.2 117.2
131 99.2 74.5 111.7



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3647

Delta R.T. 0.00 min

Lab File: VN061189.D

Acq: 29 Apr 2020 13:51

Instrument :

MSVOA_N

ClientSampleId :

ST006RW149-200422DL

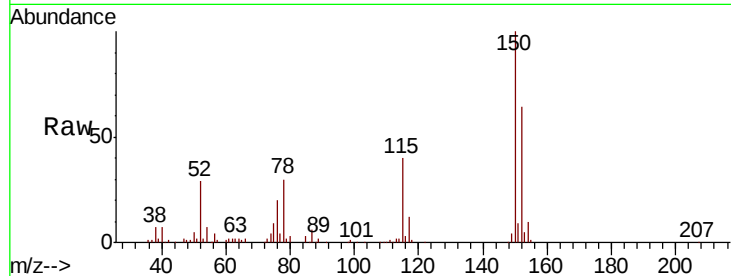
Tot Ion:152 Resp: 80083

Ion Ratio Lower Upper

152 100

115 62.3 31.0 93.0

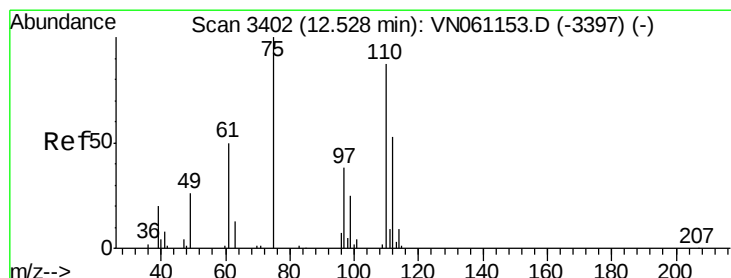
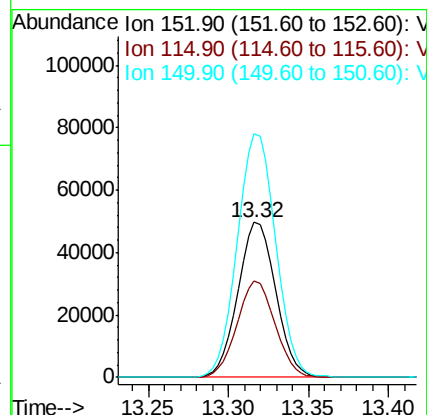
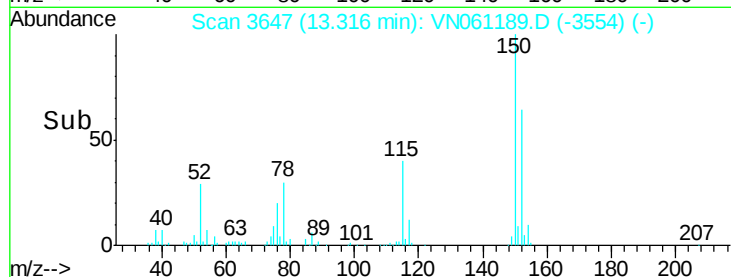
150 159.7 0.0 351.8



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: 28.528 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. -0.15 min

Lab File: VN061189.D

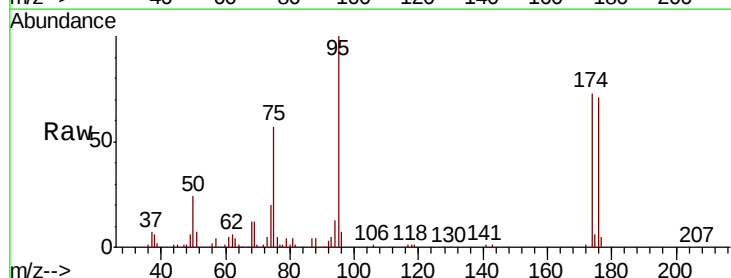
Acq: 29 Apr 2020 13:51

Tgt Ion: 75 Resp: 48165

Ion Ratio Lower Upper

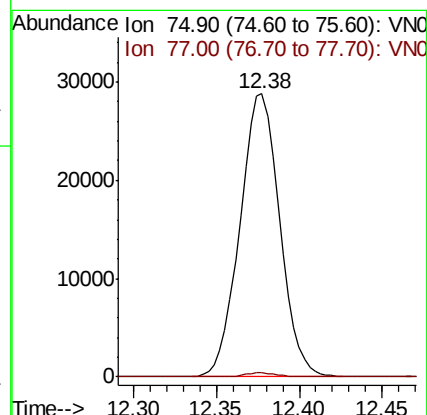
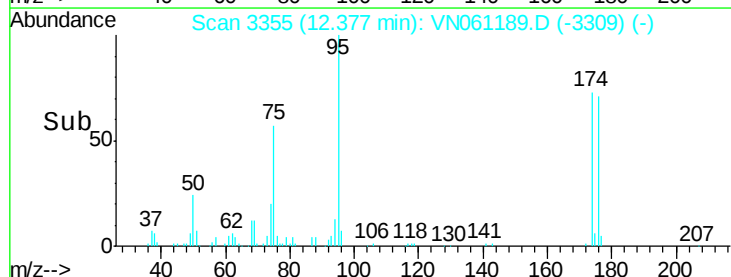
75 100

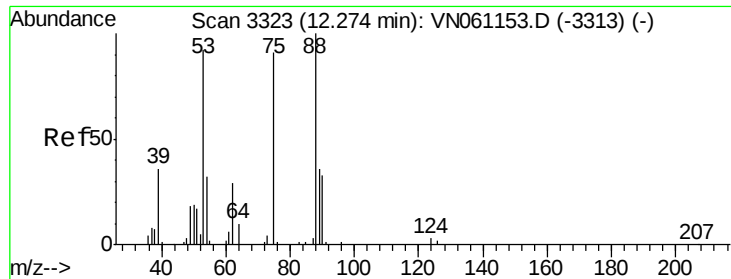
77 1.1 0.0 0.0#



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: 72.445 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.10 min

Lab File: VN061189.D

Acq: 29 Apr 2020 13:51

Instrument :

MSVOA_N

ClientSampleId :

ST006RW149-200422DL

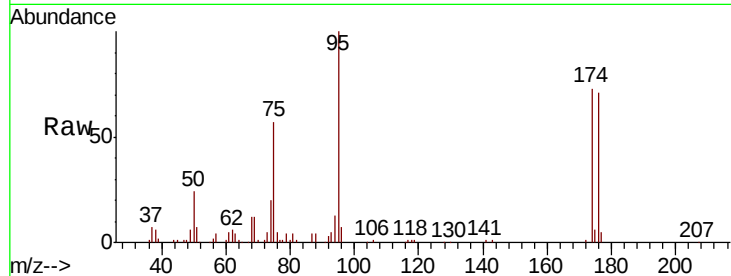
Tot Ion: 75 Resp: 48165

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

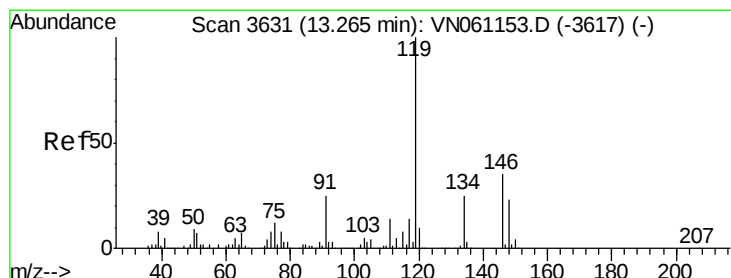
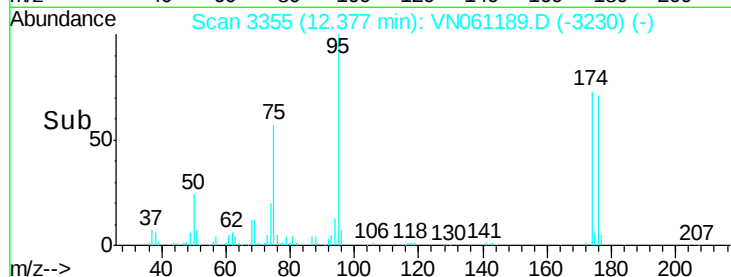
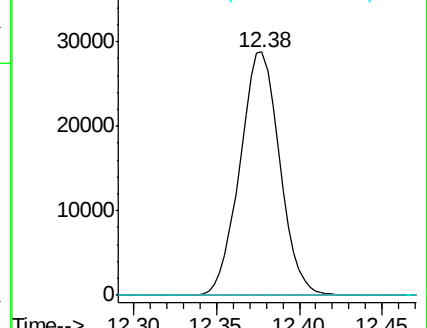
89 0.0 35.2 52.8#



Abundance Ion 74.90 (74.60 to 75.60): VN061189.D (-3230) (-)

Ion 53.00 (52.70 to 53.70): VN061189.D (-3230) (-)

Ion 88.90 (88.60 to 89.60): VN061189.D (-3230) (-)



#86

p-Isopropyltoluene

Concen: 0.256 ug/l

RT: 13.42 min Scan# 3678

Delta R.T. 0.15 min

Lab File: VN061189.D

Acq: 29 Apr 2020 13:51

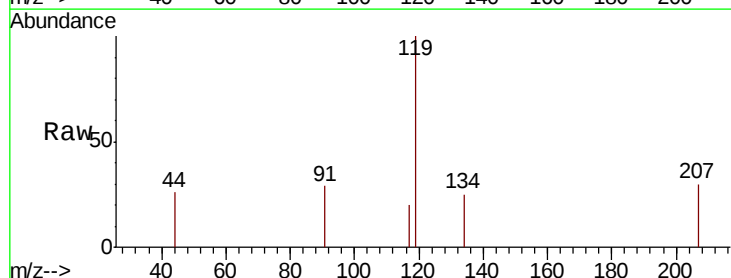
Tgt Ion: 119 Resp: 1291

Ion Ratio Lower Upper

119 100

134 21.7 12.6 37.6

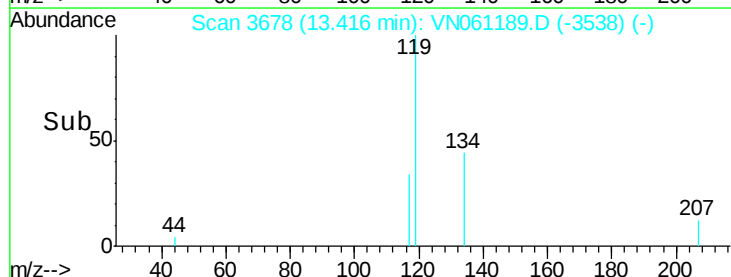
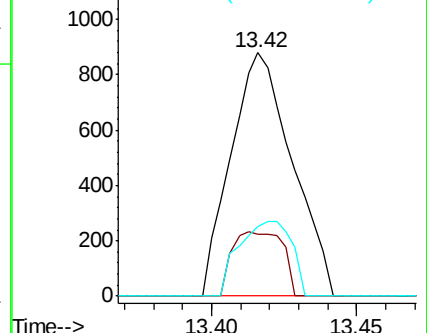
91 26.3 12.7 38.0

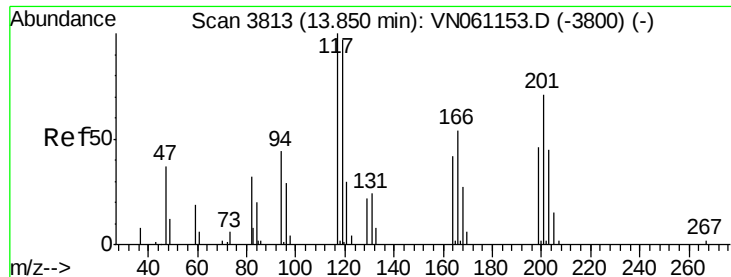


Abundance Ion 119.00 (118.70 to 119.70): VN061189.D (-3538) (-)

Ion 134.00 (133.70 to 134.70): VN061189.D (-3538) (-)

Ion 91.00 (90.70 to 91.70): VN061189.D (-3538) (-)





#90

Hexachloroethane

Concen: 7.724 ug/l

RT: 13.92 min Scan# 3834

Delta R.T. 0.07 min

Lab File: VN061189.D

Acq: 29 Apr 2020 13:51

Instrument :

MSVOA_N

ClientSampleId :

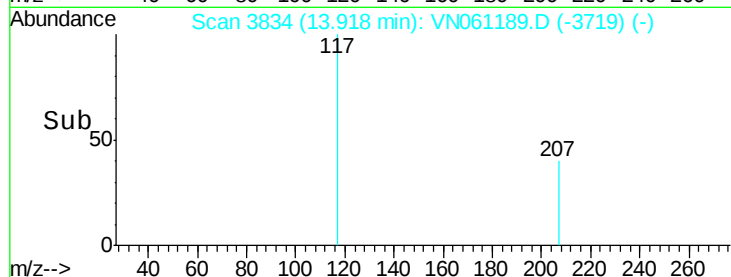
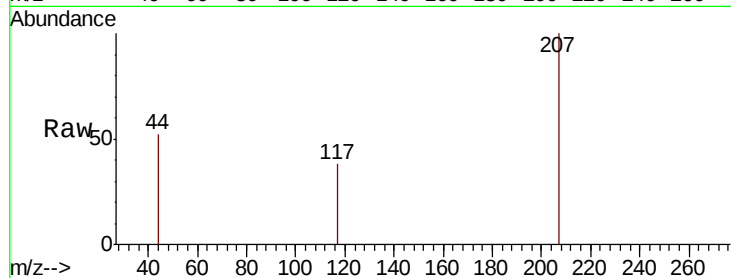
ST006RW149-200422DL

Tot Ion:117 Resp: 61

Ion Ratio Lower Upper

117 100

201 0.0 35.5 106.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

