

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032720\
 Data File : VN060754.D
 Acq On : 27 Mar 2020 20:16
 Operator : JC/MD
 Sample : L2040-09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-11986

Quant Time: Mar 28 02:03:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	190134	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	318769	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	302801	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	138768	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	124271	47.61	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.22%	
35) Dibromofluoromethane	7.56	113	96758	50.20	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.40%	
50) Toluene-d8	10.08	98	396777	50.40	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.80%	
62) 4-Bromofluorobenzene	12.40	95	148999	51.64	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.28%	

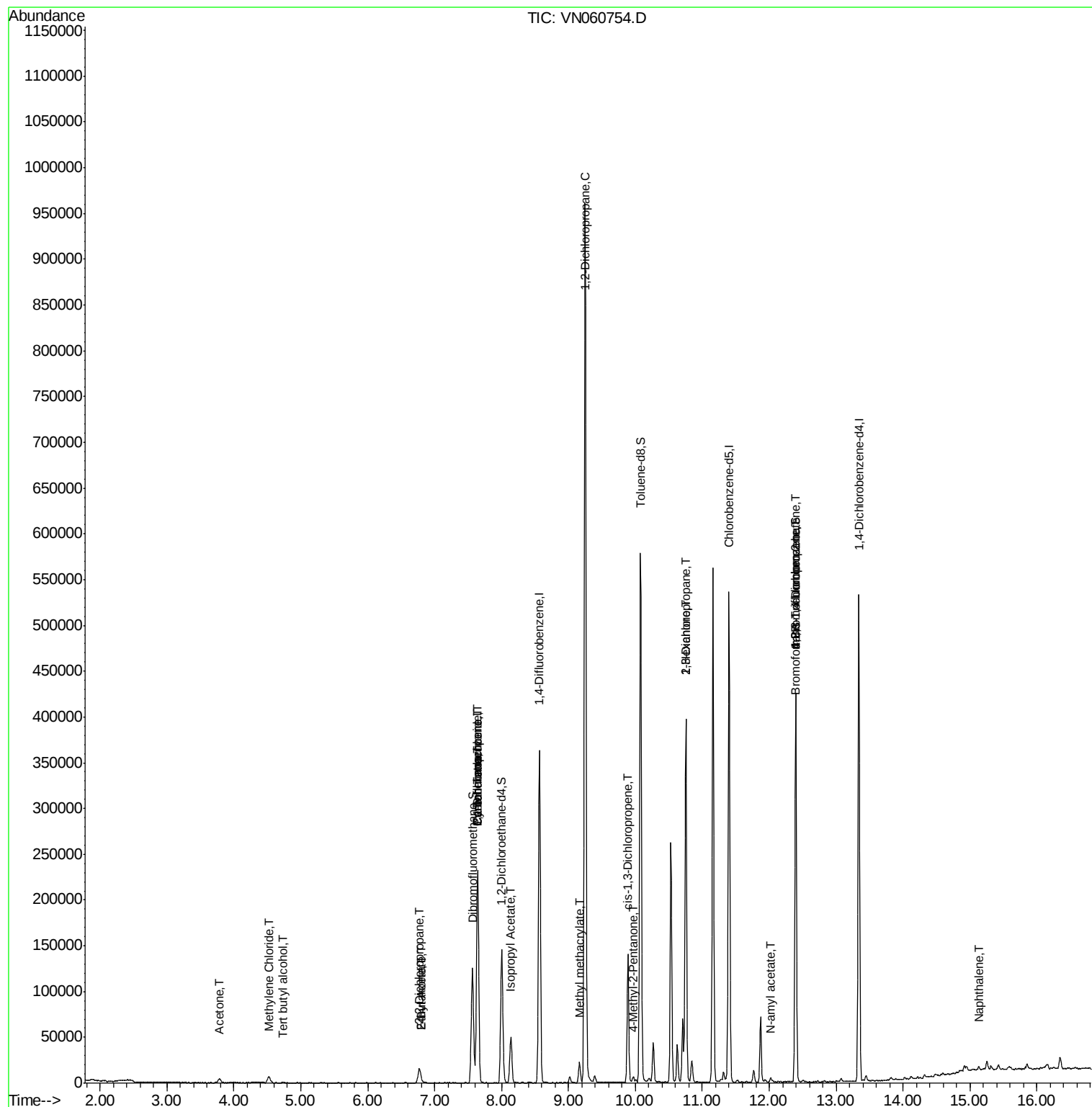
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	268	0.698	ug/l #	72
16) Acetone	3.78	43	8265	8.939	ug/l	95
20) Methylene Chloride	4.52	84	5525	2.429	ug/l	97
25) 2-Butanone	6.80	43	2910	1.945	ug/l #	88
26) 2,2-Dichloropropane	6.77	77	879	0.268	ug/l #	53
31) Cyclohexane	7.64	56	3916	0.932	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14939	4.840	ug/l #	49
37) Ethyl Acetate	6.80	43	2910	0.873	ug/l #	73
38) Carbon Tetrachloride	7.64	117	18293	6.612	ug/l #	16
43) Isopropyl Acetate	8.14	43	60691	11.034	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1065	0.433	ug/l #	43
48) Methyl methacrylate	9.16	41	3288	1.343	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4167	1.331	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	24596	6.319	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3941	1.049	ug/l #	42
59) 2-Hexanone	10.75	43	58737	26.051	ug/l #	52
71) Bromoform	12.38	173	79	1.723	ug/l #	29
74) N-amyl acetate	12.02	43	3895	0.809	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	75892	25.345	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	75892	65.094	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.51	75	92	Below Cal	#	3
95) Naphthalene	15.13	128	3270	0.418	ug/l #	93

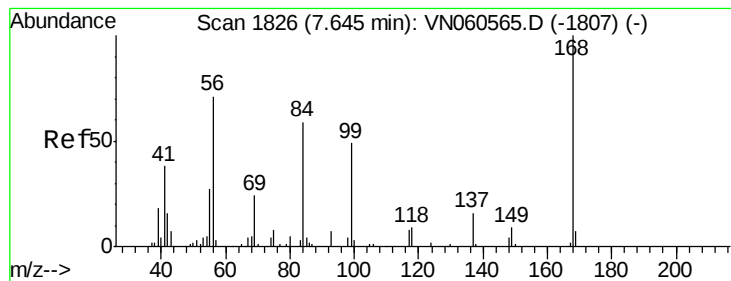
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 18 08:49:09 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

Instrument :

MSVOA_N

ClientSampleId :

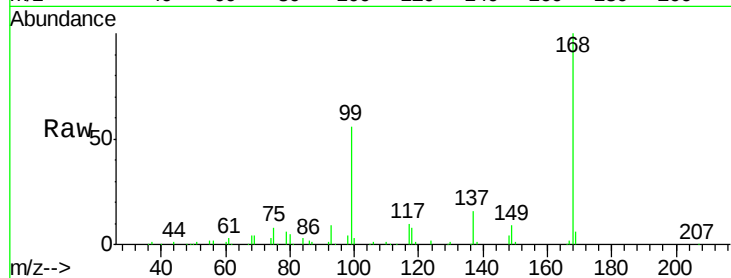
RO-11986

Tgt Ion: 168 Resp: 190134

Ion Ratio Lower Upper

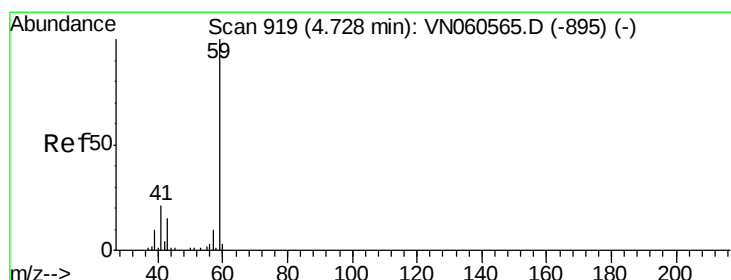
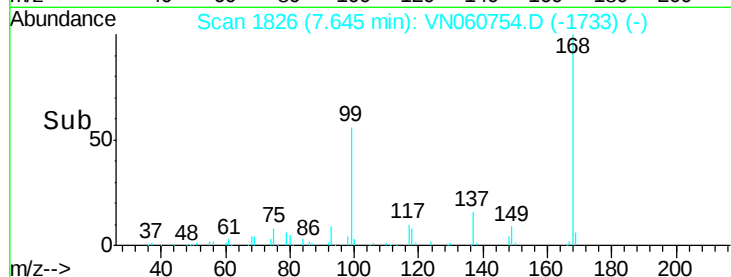
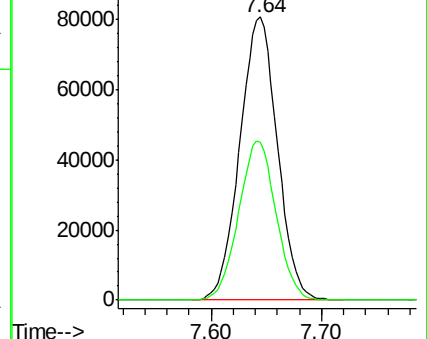
168 100

99 55.8 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.698 ug/l

RT: 4.73 min Scan# 920

Delta R.T. 0.00 min

Lab File: VN060754.D

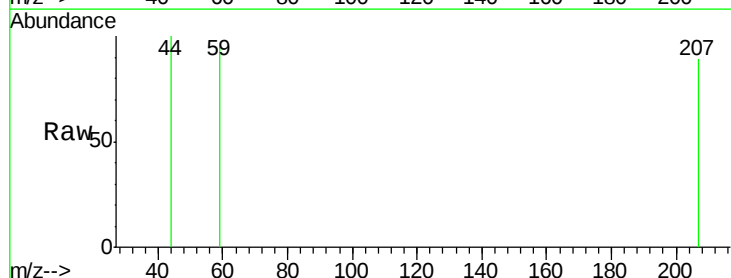
Acq: 27 Mar 2020 20:16

Tgt Ion: 59 Resp: 268

Ion Ratio Lower Upper

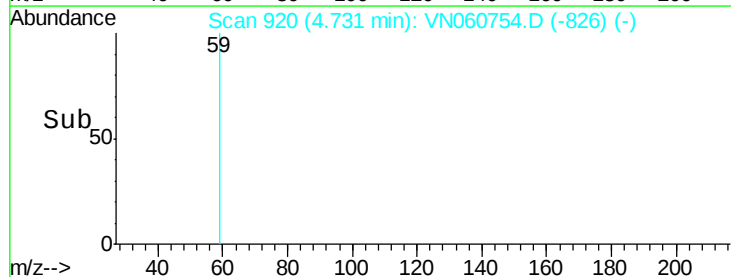
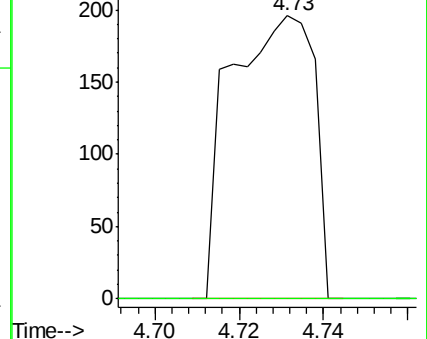
59 100

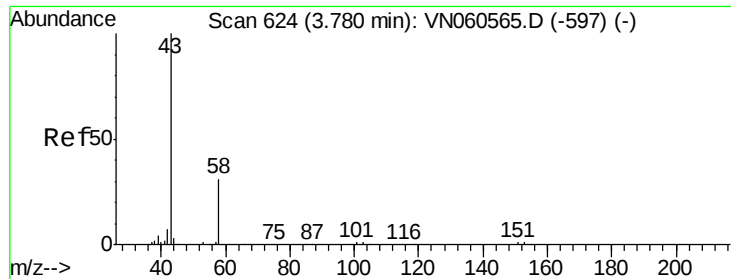
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 8.939 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

Instrument :

MSVOA_N

ClientSampleId :

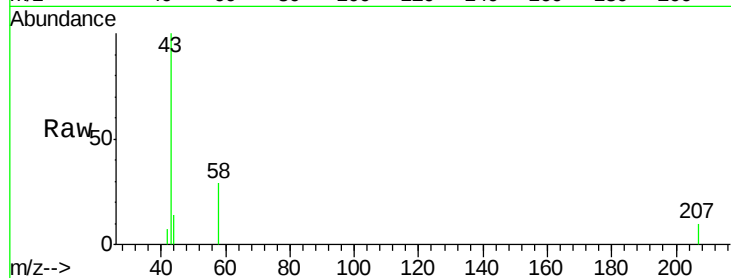
RO-11986

Tgt Ion: 43 Resp: 8265

Ion Ratio Lower Upper

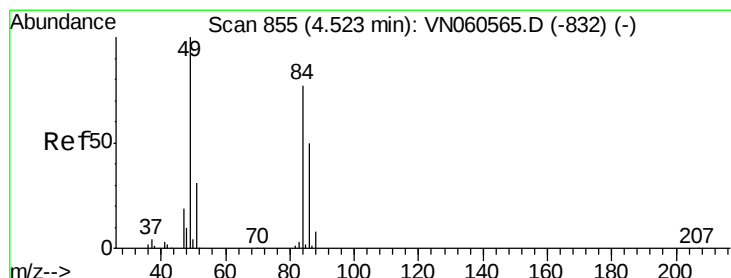
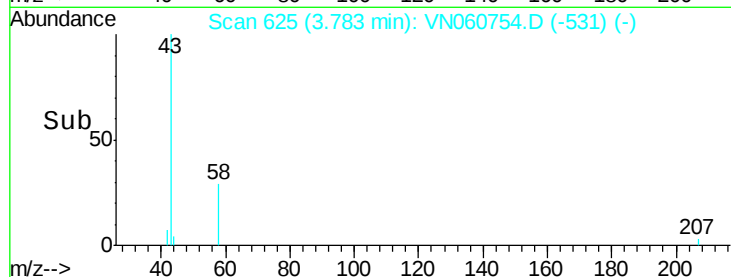
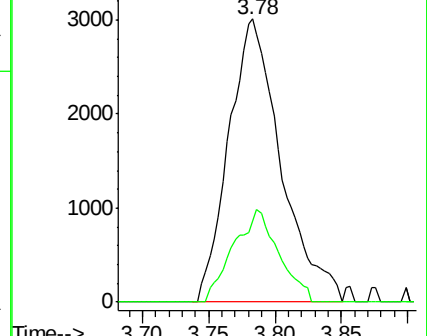
43 100

58 28.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060754.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060754.D (-597) (-)



#20

Methylene Chloride

Concen: 2.429 ug/l

RT: 4.52 min Scan# 854

Delta R.T. -0.00 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

Tgt Ion: 84 Resp: 5525

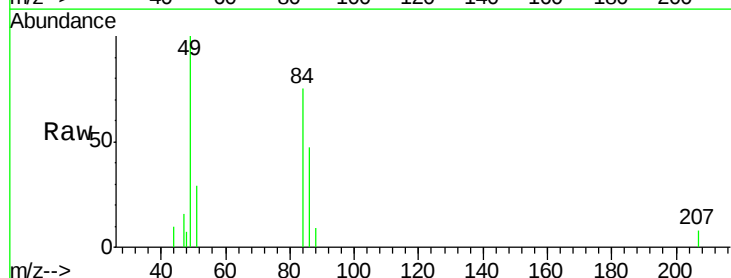
Ion Ratio Lower Upper

84 100

49 132.9 103.3 154.9

51 38.7 31.6 47.4

86 62.2 52.0 78.0

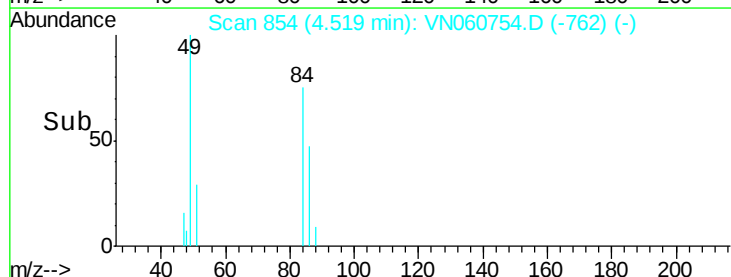
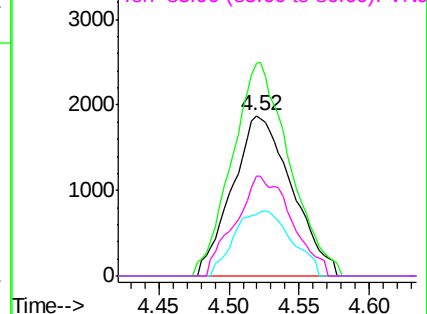


Abundance Ion 83.90 (83.60 to 84.60): VN060754.D (-762) (-)

Ion 48.90 (48.60 to 49.60): VN060754.D (-762) (-)

Ion 50.90 (50.60 to 51.60): VN060754.D (-762) (-)

Ion 85.90 (85.60 to 86.60): VN060754.D (-762) (-)

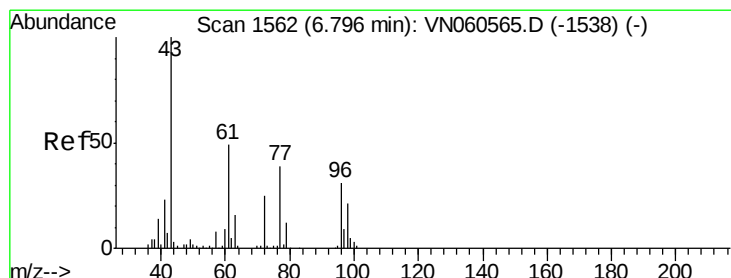
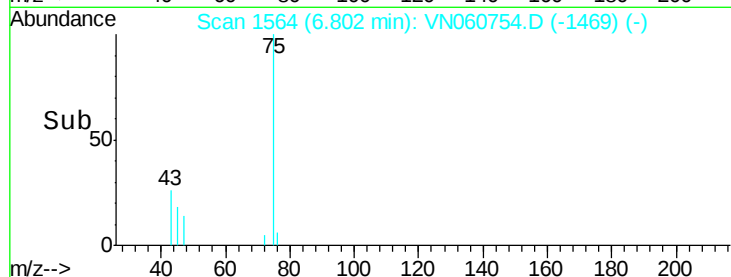
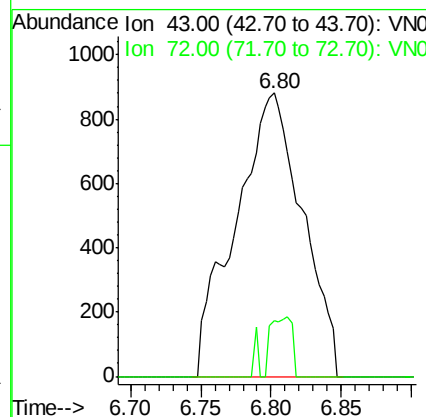
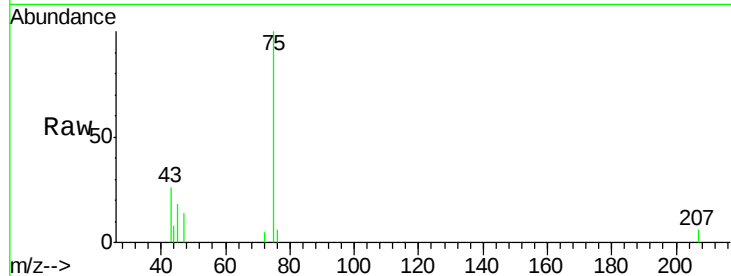




#25
 2-Butanone
 Concen: 1.945 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. 0.01 min
 Lab File: VN060754.D
 Acq: 27 Mar 2020 20:16

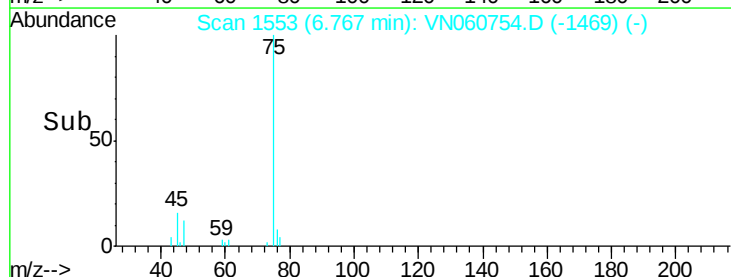
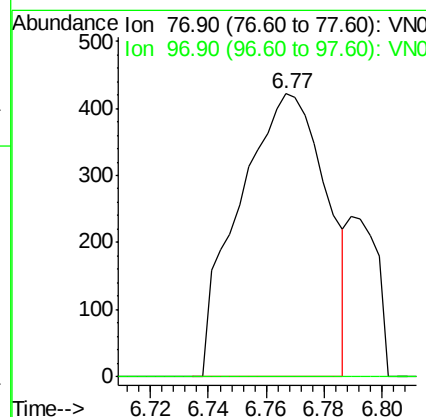
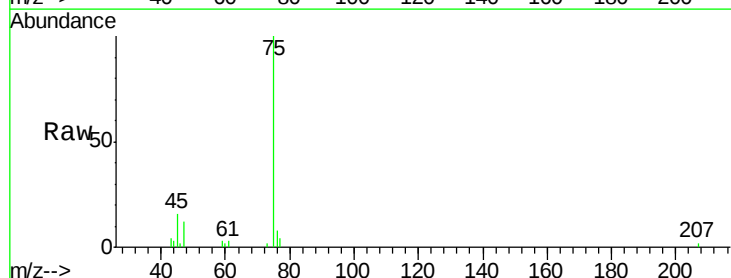
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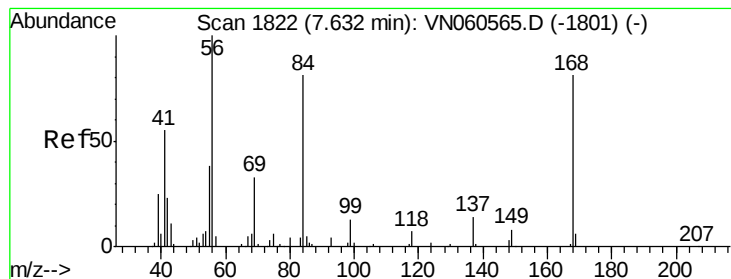
Tgt Ion: 43 Resp: 2910
 Ion Ratio Lower Upper
 43 100
 72 19.6 20.4 30.6#



#26
 2,2-Dichloropropane
 Concen: 0.268 ug/l
 RT: 6.77 min Scan# 1553
 Delta R.T. -0.03 min
 Lab File: VN060754.D
 Acq: 27 Mar 2020 20:16

Tgt Ion: 77 Resp: 879
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.4 34.1#





#31

Cyclohexane

Concen: 0.932 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

Instrument :

MSVOA_N

ClientSampleId :

RO-11986

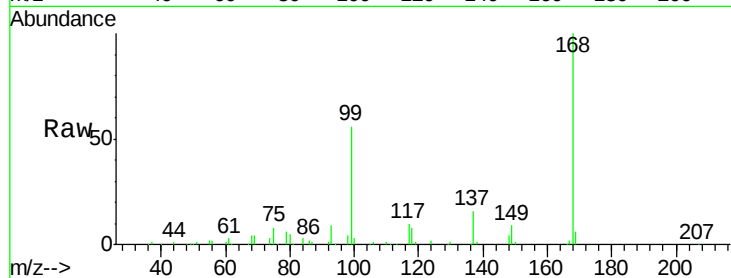
Tgt Ion: 56 Resp: 3916

Ion Ratio Lower Upper

56 100

69 179.6 26.6 40.0#

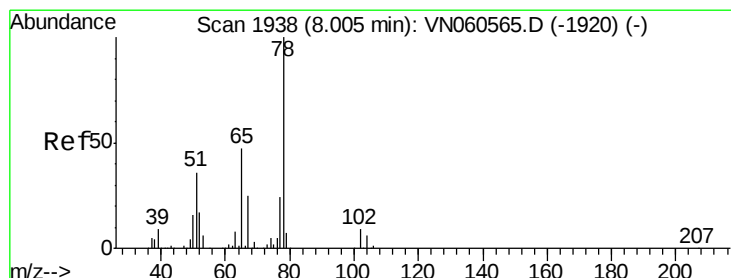
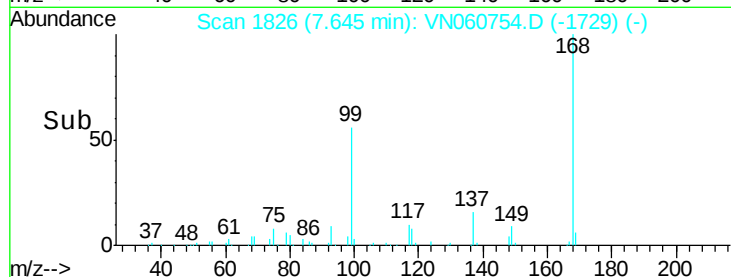
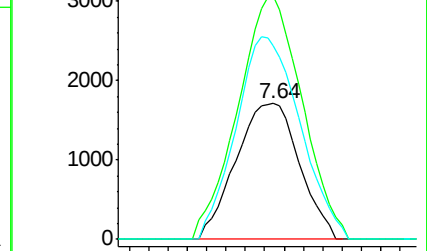
84 143.2 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN060754.D (-1729) (-)

Ion 69.00 (68.70 to 69.70): VN060754.D (-1729) (-)

Ion 84.00 (83.70 to 84.70): VN060754.D (-1729) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.611 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060754.D

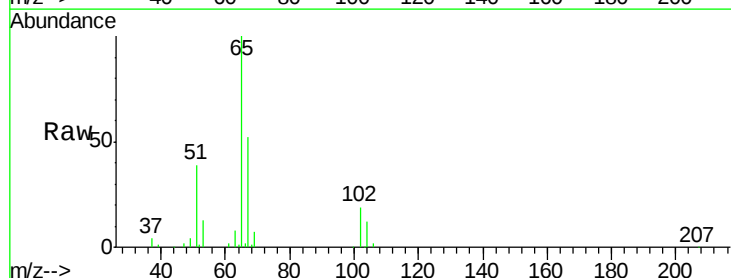
Acq: 27 Mar 2020 20:16

Tgt Ion: 65 Resp: 124271

Ion Ratio Lower Upper

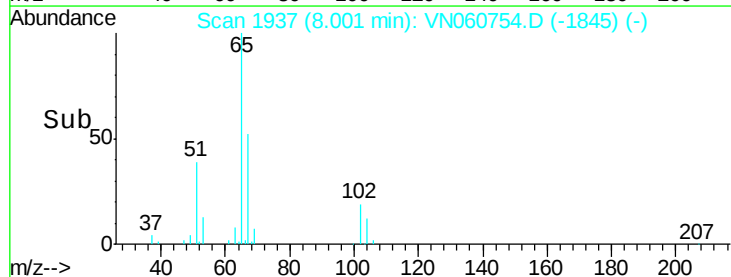
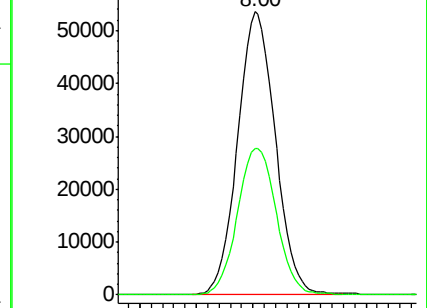
65 100

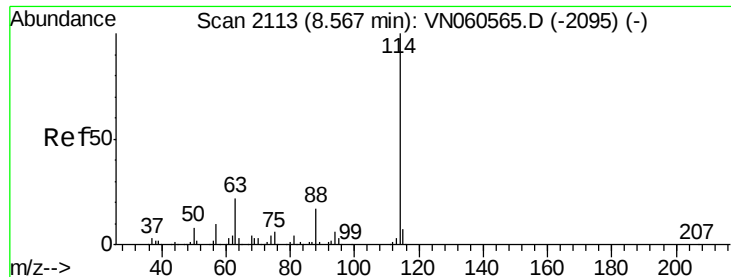
67 53.7 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060754.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060754.D (-1845) (-)

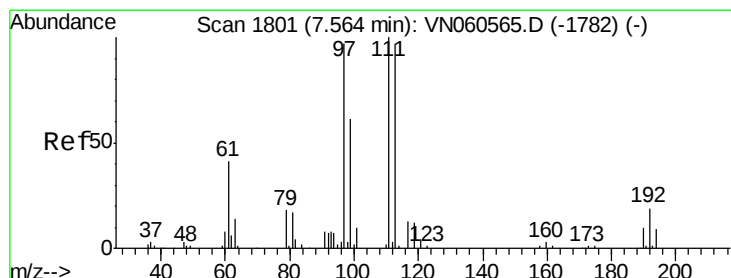
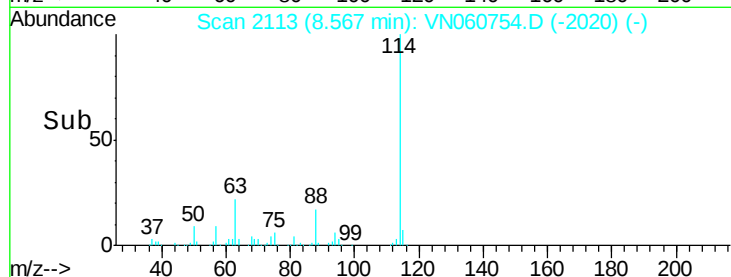
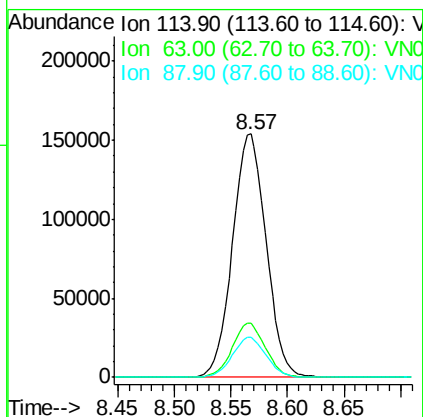
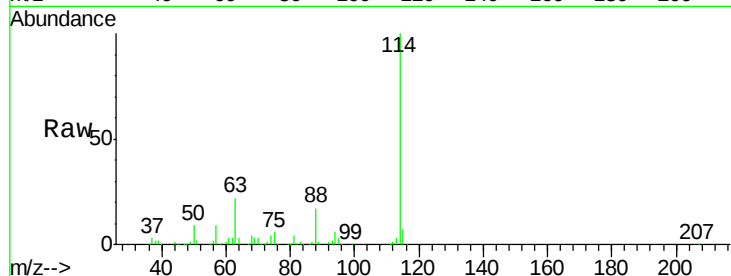




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060754.D
 Acq: 27 Mar 2020 20:16

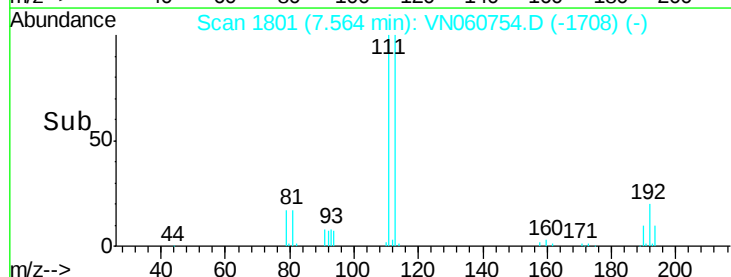
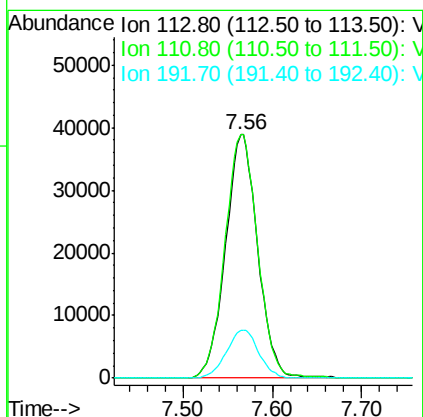
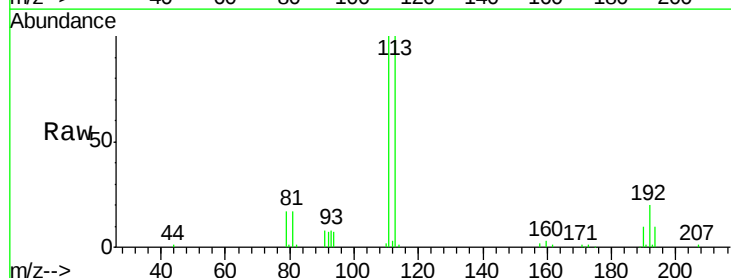
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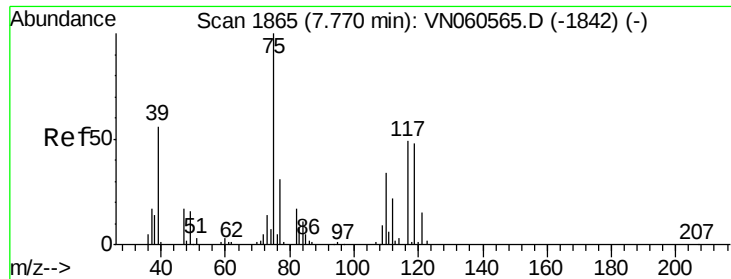
Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	43.8
88	16.6	0.0	33.0



#35
 Dibromofluoromethane
 Concen: 50.199 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060754.D
 Acq: 27 Mar 2020 20:16

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.9	124.3
192	19.7	15.8	23.8

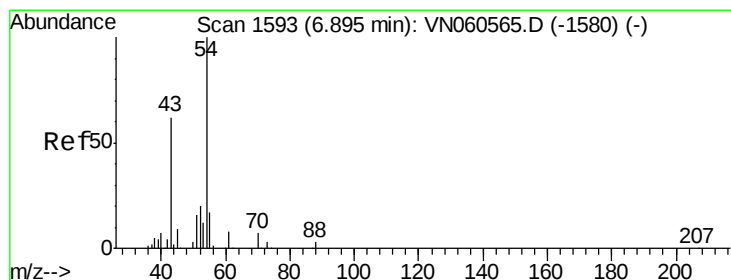
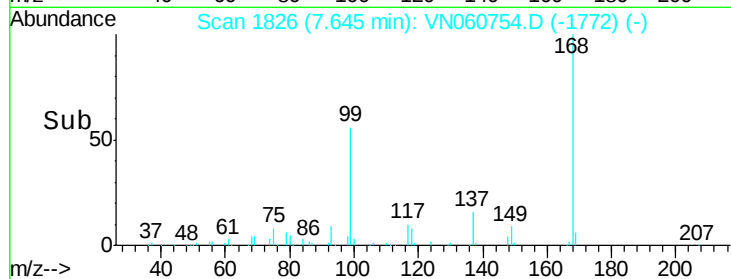
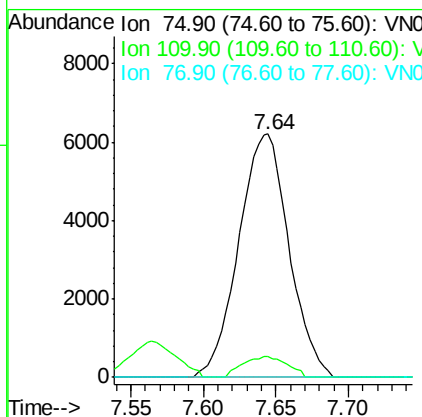
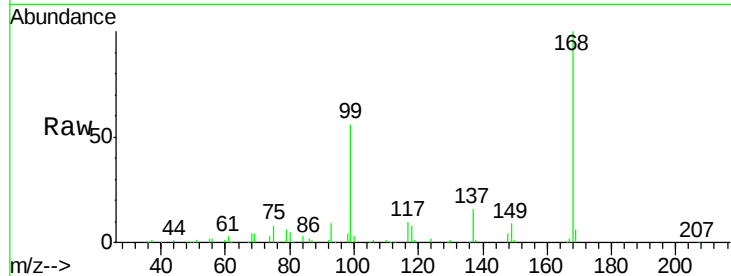




#36
 1,1-Dichloropropene
 Concen: 4.840 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060754.D
 Acq: 27 Mar 2020 20:16

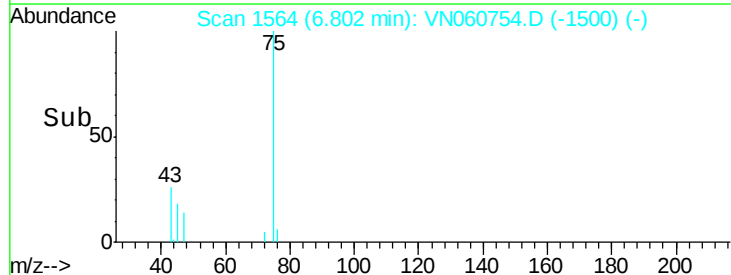
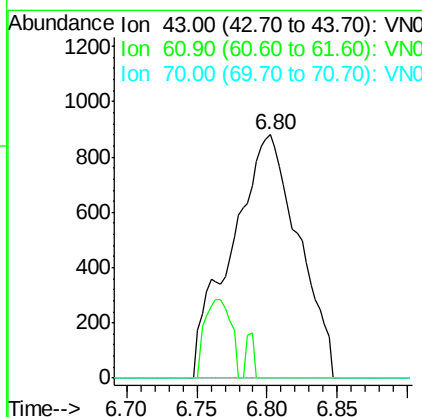
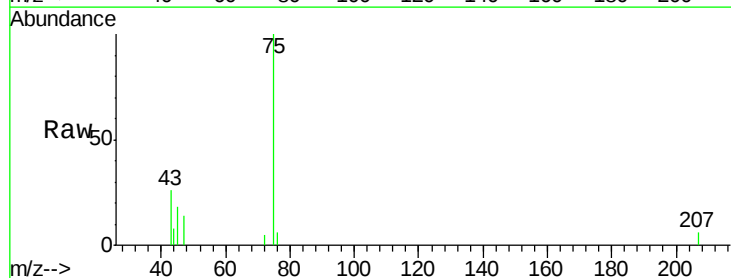
Instrument :
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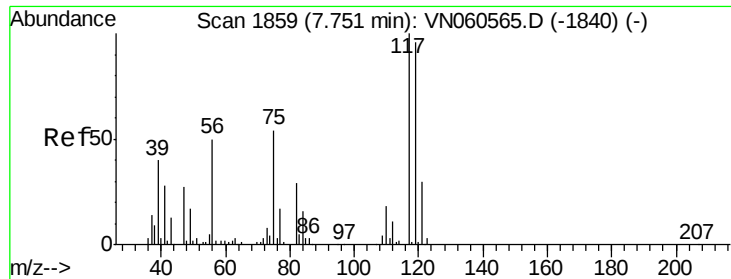
Tgt Ion: 75 Resp: 14939
 Ion Ratio Lower Upper
 75 100
 110 7.5 16.9 50.6#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 0.873 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.09 min
 Lab File: VN060754.D
 Acq: 27 Mar 2020 20:16

Tgt Ion: 43 Resp: 2910
 Ion Ratio Lower Upper
 43 100
 61 2.1 10.6 15.8#
 70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 6.612 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

Instrument :

MSVOA_N

ClientSampled :

RO-11986

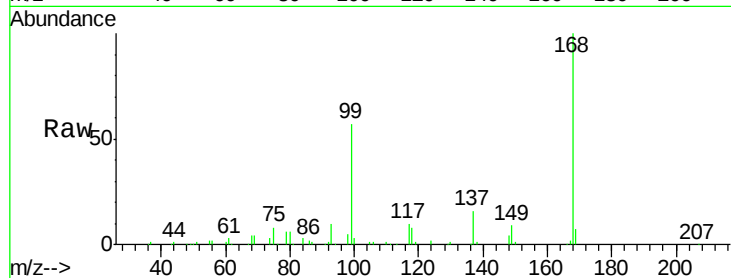
Tgt Ion:117 Resp: 18293

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.2#

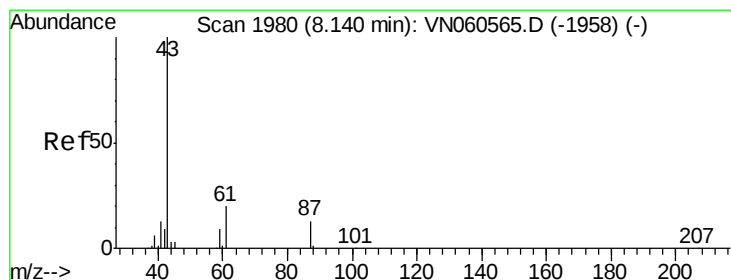
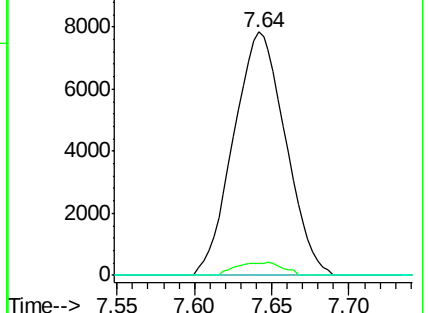
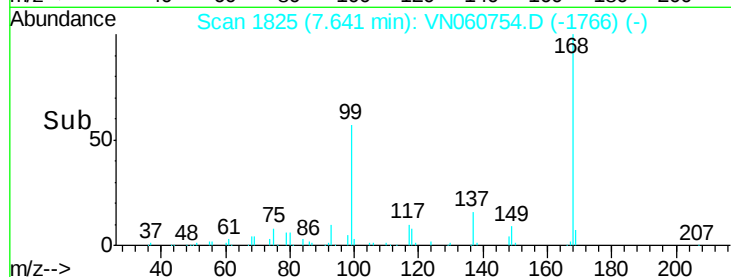
121 0.0 23.7 35.5#



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: 11.034 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

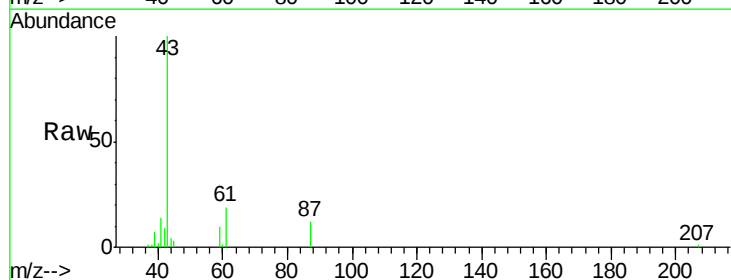
Tgt Ion: 43 Resp: 60691

Ion Ratio Lower Upper

43 100

61 18.8 20.7 31.1#

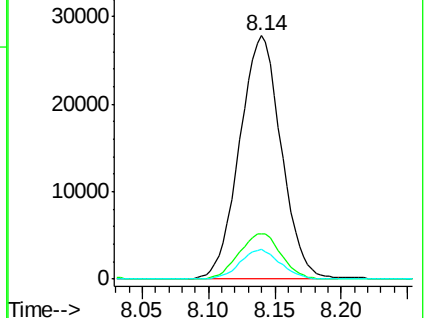
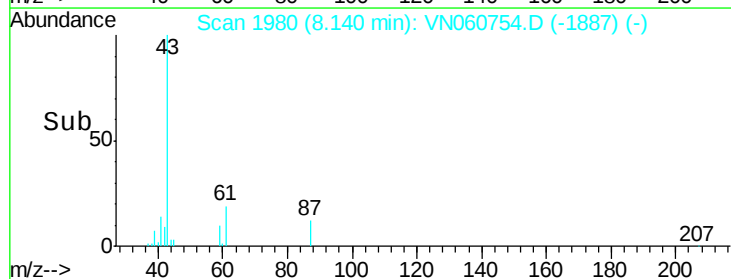
87 11.6 9.8 14.8

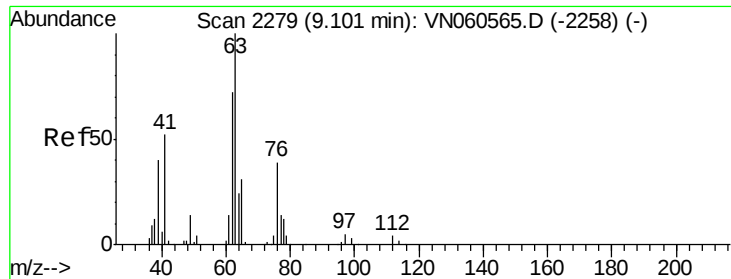


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.433 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

Instrument :

MSVOA_N

ClientSampleId :

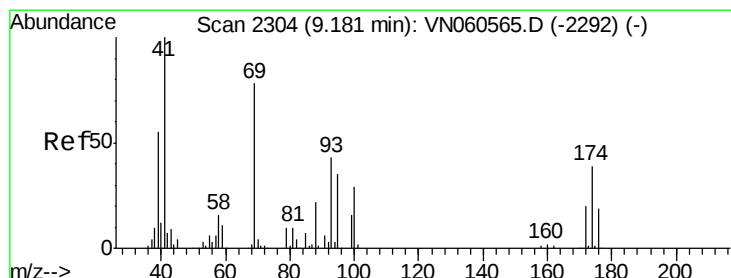
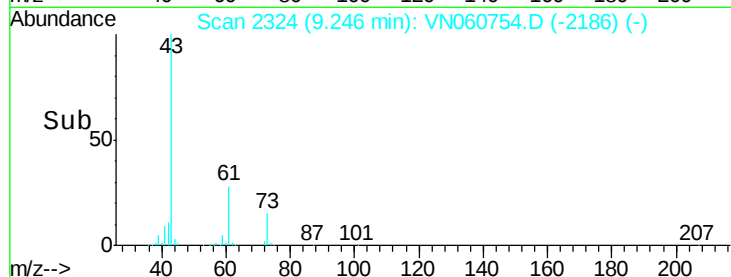
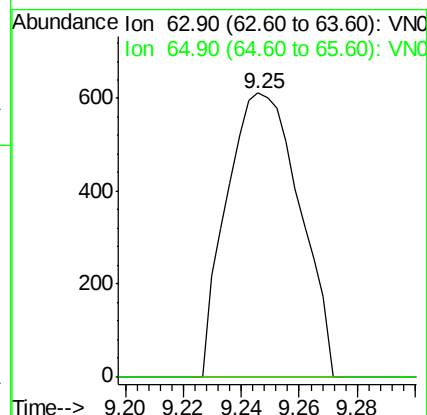
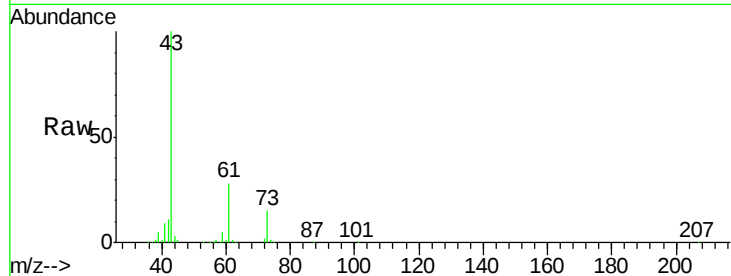
RO-11986

Tgt Ion: 63 Resp: 1065

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#



#48

Methyl methacrylate

Concen: 1.343 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

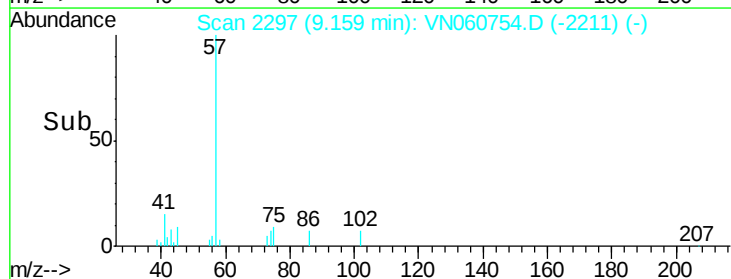
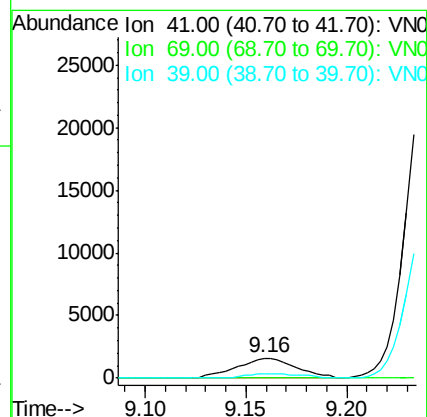
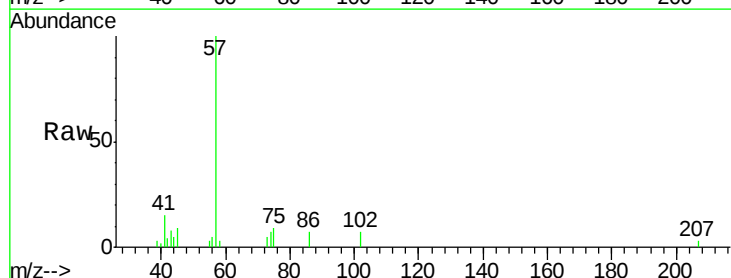
Tgt Ion: 41 Resp: 3288

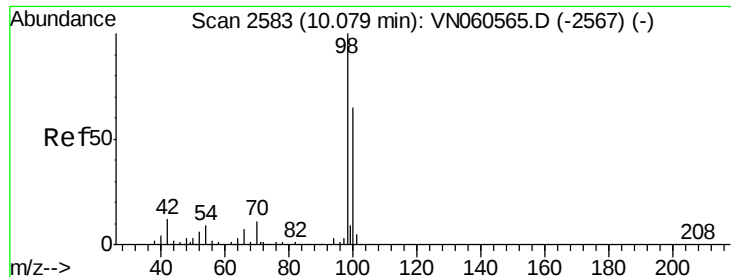
Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

39 0.0 44.0 66.0#

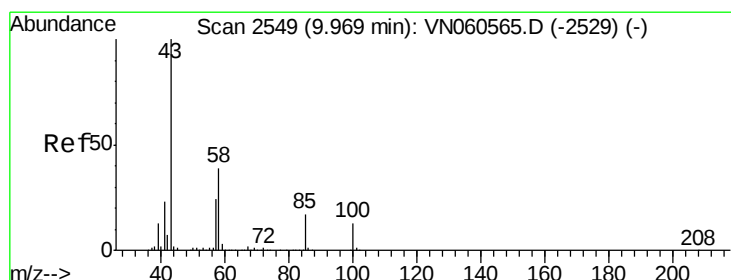
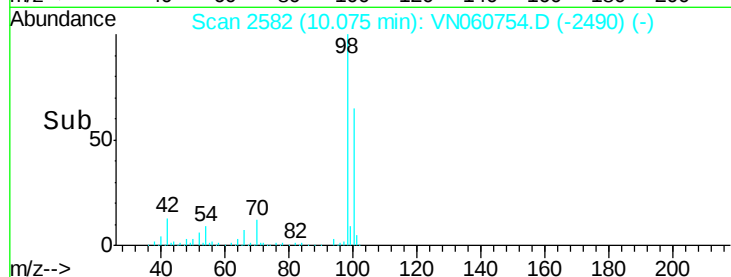
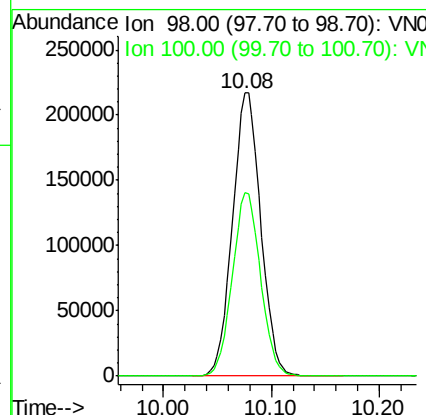
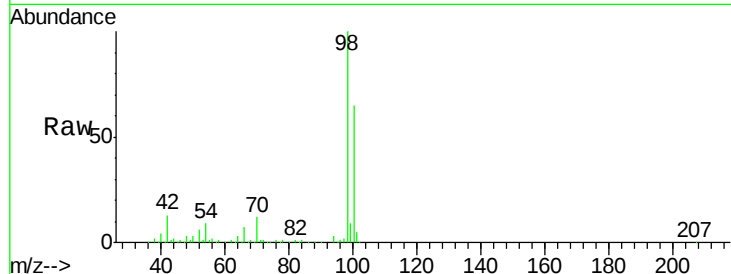




#50
Toluene-d8
Concen: 50.397 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060754.D
Acq: 27 Mar 2020 20:16

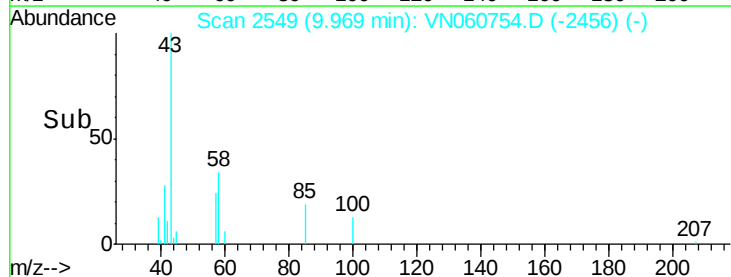
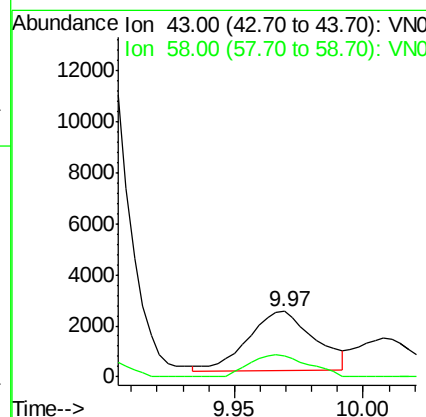
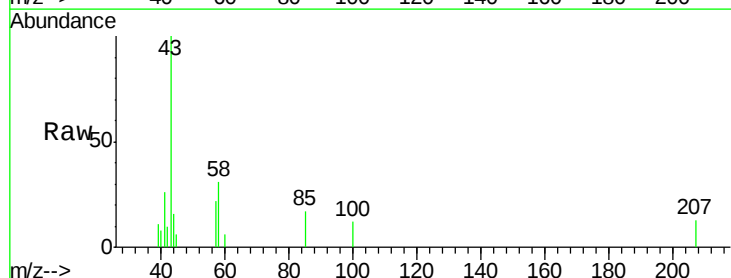
Instrument :
MSVOA_N
ClientSampleId :
RO-11986

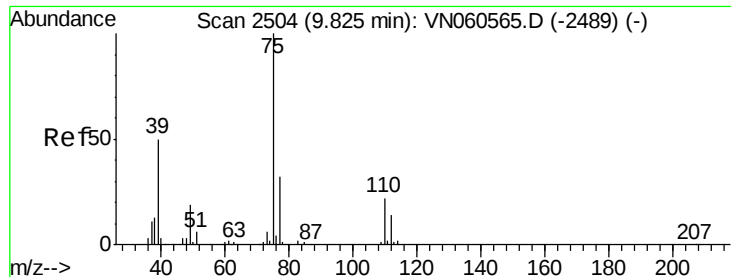
Tgt Ion: 98 Resp: 396777
Ion Ratio Lower Upper
98 100
100 64.5 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.331 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. -0.00 min
Lab File: VN060754.D
Acq: 27 Mar 2020 20:16

Tgt Ion: 43 Resp: 4167
Ion Ratio Lower Upper
43 100
58 33.0 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 6.319 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

Instrument :

MSVOA_N

ClientSampleId :

RO-11986

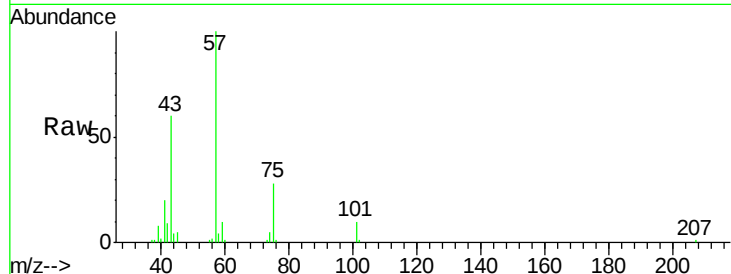
Tgt Ion: 75 Resp: 24596

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

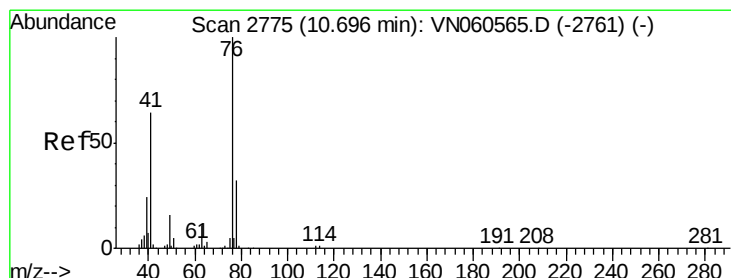
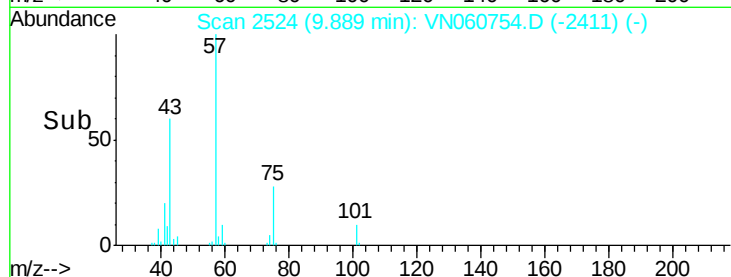
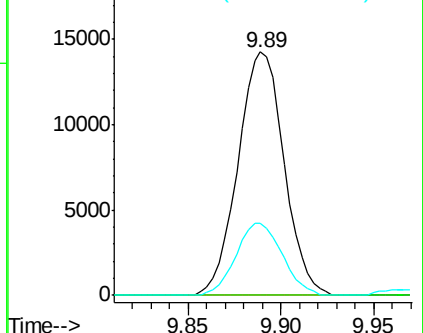
39 29.6 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060754.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060754.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060754.D (-2411) (-)



#57

1,3-Dichloropropane

Concen: 1.049 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060754.D

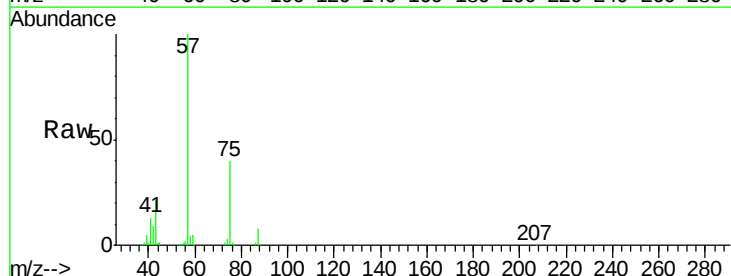
Acq: 27 Mar 2020 20:16

Tgt Ion: 76 Resp: 3941

Ion Ratio Lower Upper

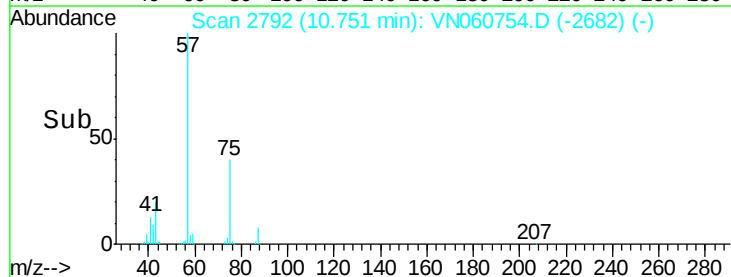
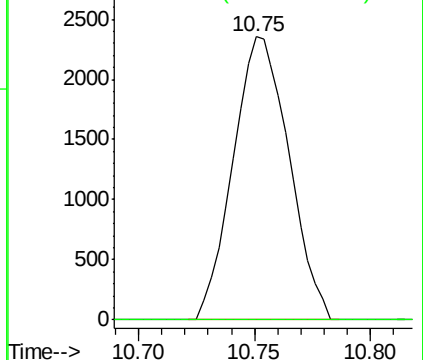
76 100

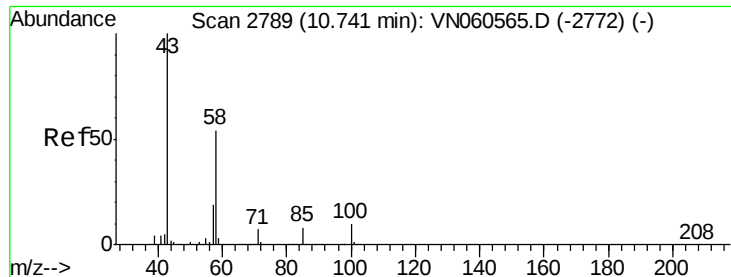
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060754.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060754.D (-2682) (-)

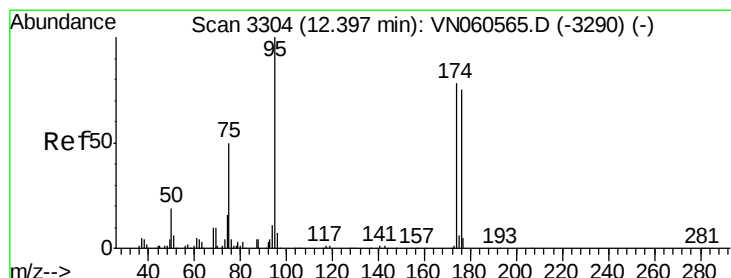
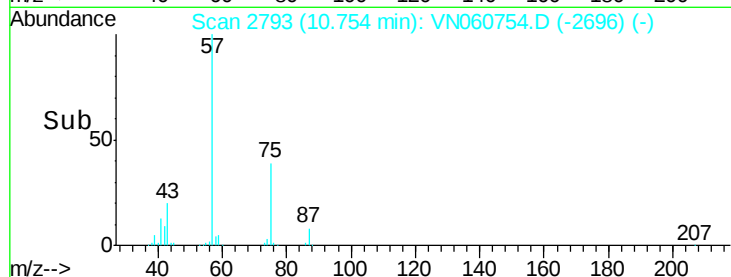
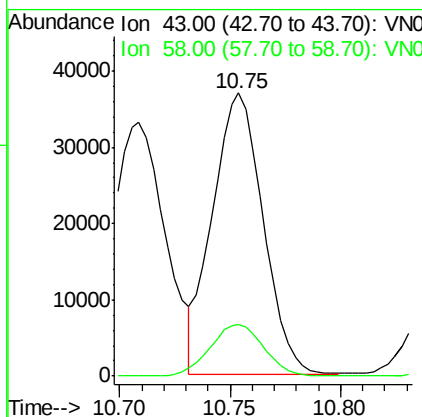
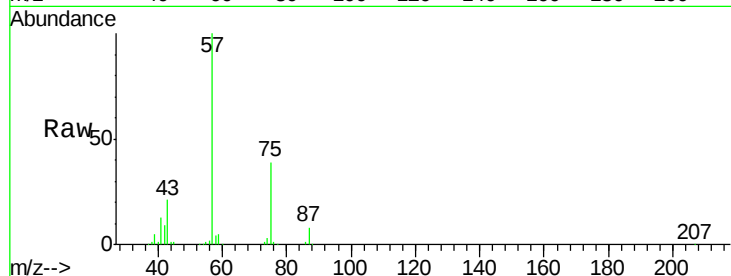




#59
2-Hexanone
Concen: 26.051 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060754.D
Acq: 27 Mar 2020 20:16

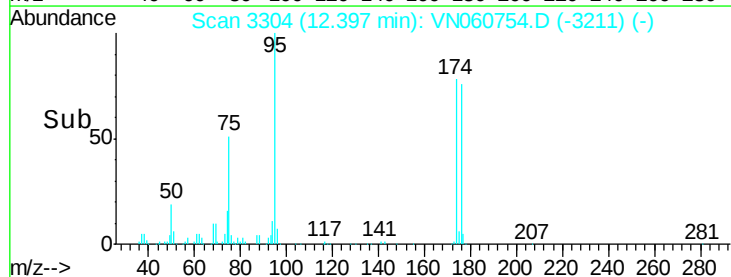
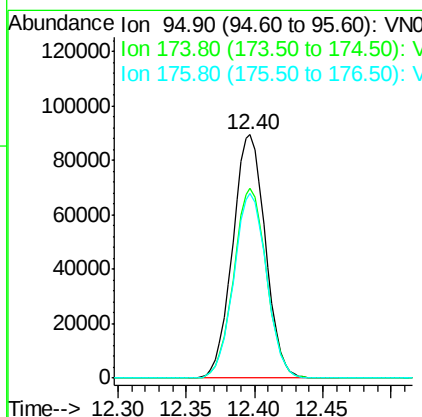
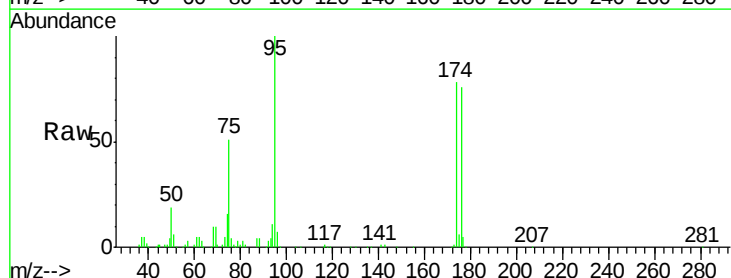
Instrument :
MSVOA_N
ClientSampleId :
RO-11986

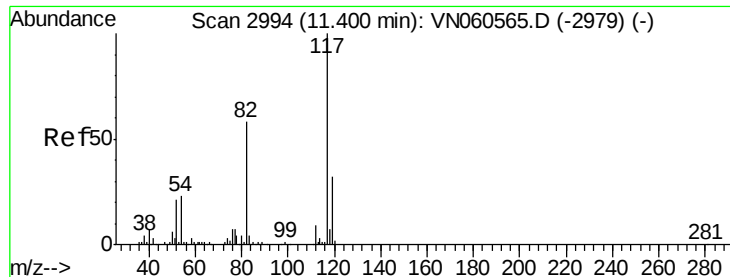
Tgt Ion: 43 Resp: 58737
Ion Ratio Lower Upper
43 100
58 19.4 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.640 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060754.D
Acq: 27 Mar 2020 20:16

Tgt Ion: 95 Resp: 148999
Ion Ratio Lower Upper
95 100
174 77.8 0.0 157.6
176 75.9 0.0 150.6

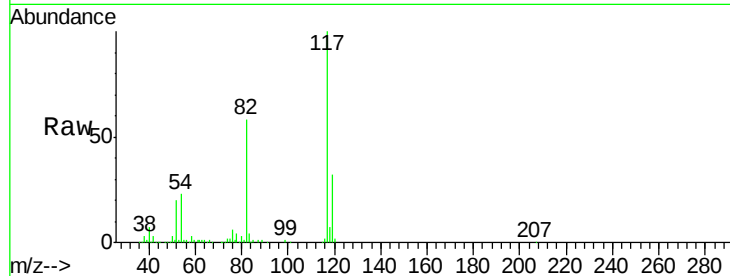




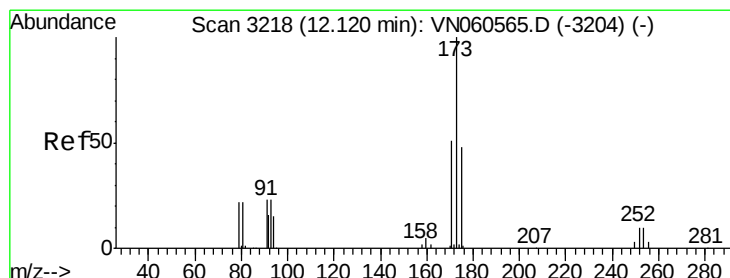
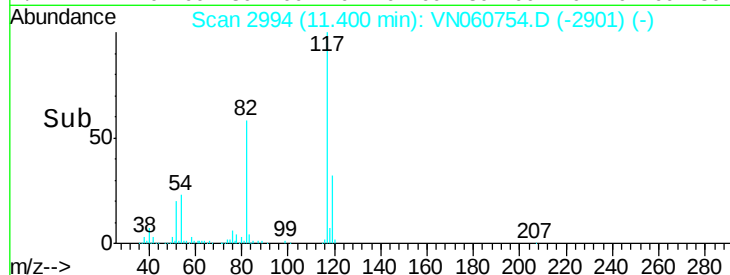
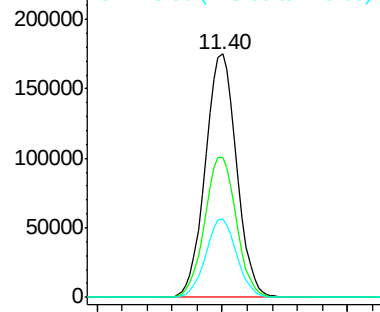
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060754.D
Acq: 27 Mar 2020 20:16

Instrument :
MSVOA_N
ClientSampleId :
RO-11986

Tgt Ion:117 Resp: 302801
Ion Ratio Lower Upper
117 100
82 57.5 46.7 70.1
119 32.0 25.5 38.3

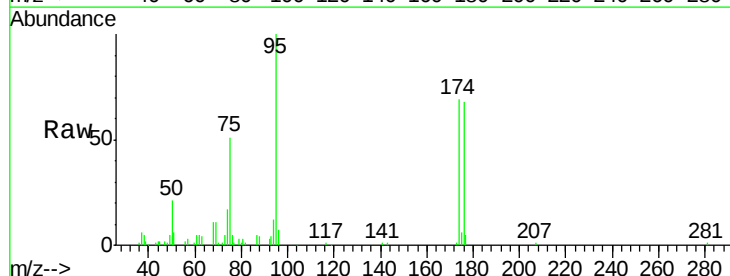


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

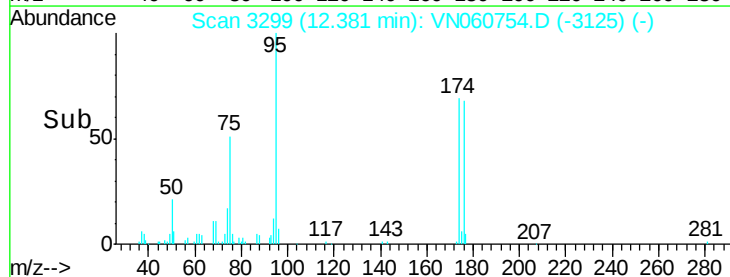
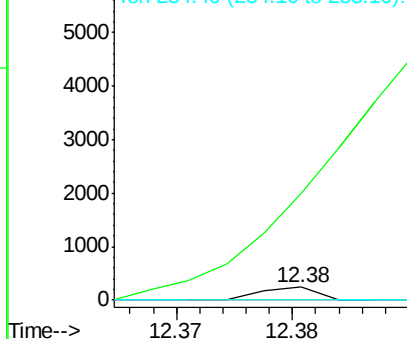


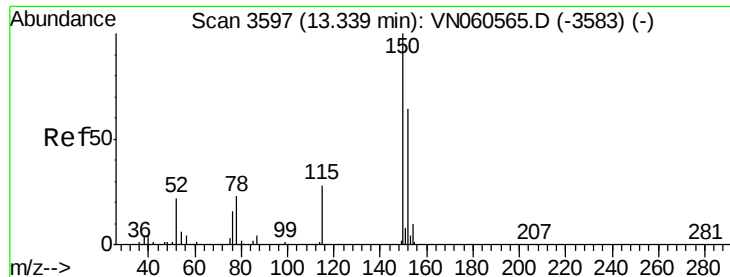
#71
Bromoform
Concen: 1.723 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.26 min
Lab File: VN060754.D
Acq: 27 Mar 2020 20:16

Tgt Ion:173 Resp: 79
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.4#
254 0.0 0.0 0.0



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

Instrument :

MSVOA_N

ClientSampleId :

RO-11986

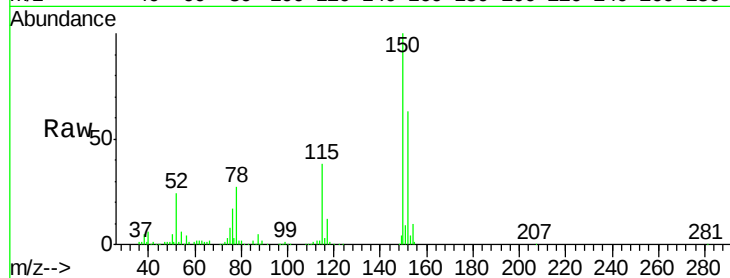
Tgt Ion:152 Resp: 138768

Ion Ratio Lower Upper

152 100

115 60.4 30.2 90.6

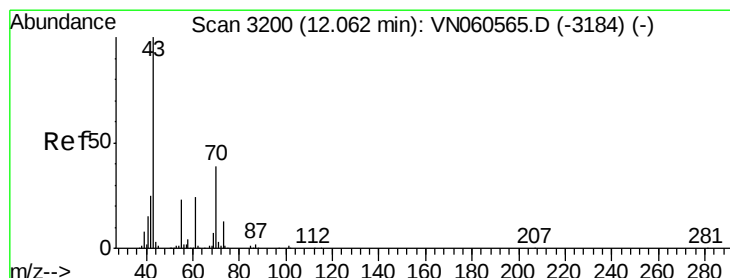
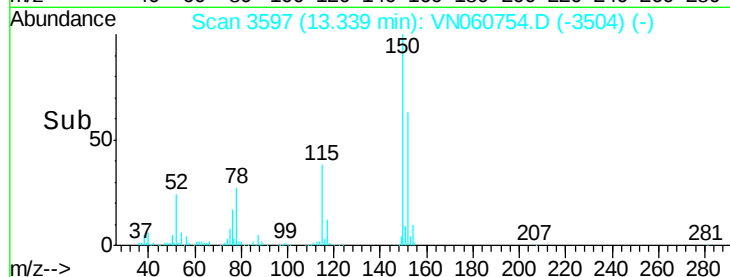
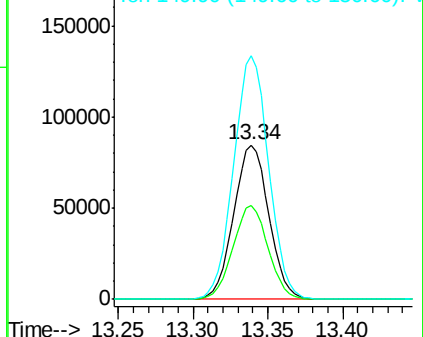
150 157.4 0.0 350.2



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



#74

N-ethyl acetate

Concen: 0.809 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

Tgt Ion: 43 Resp: 3895

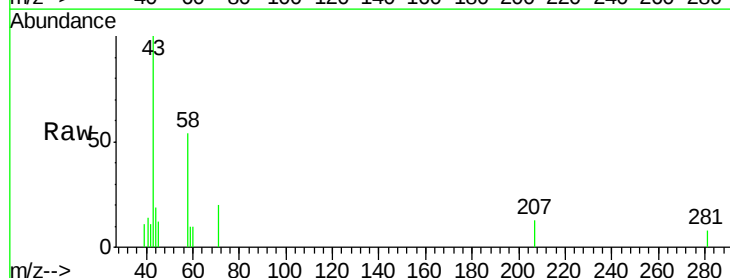
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

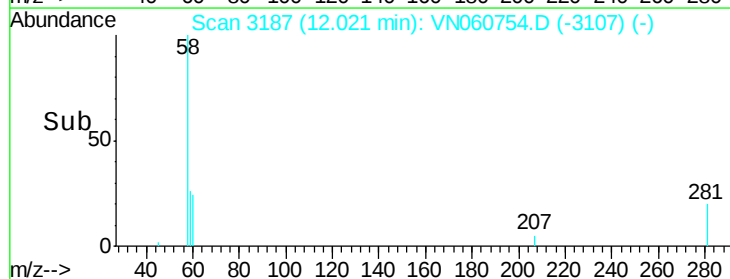
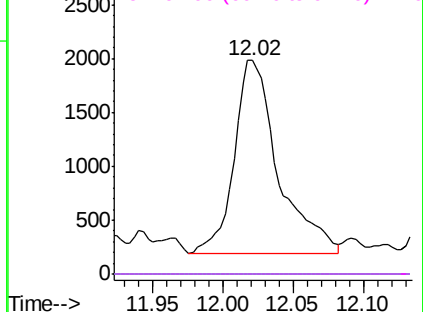


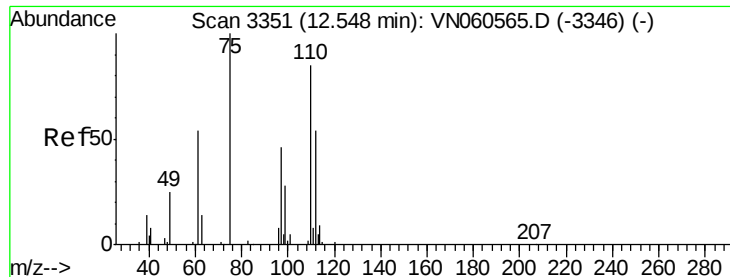
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.345 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

Instrument :

MSVOA_N

ClientSampled :

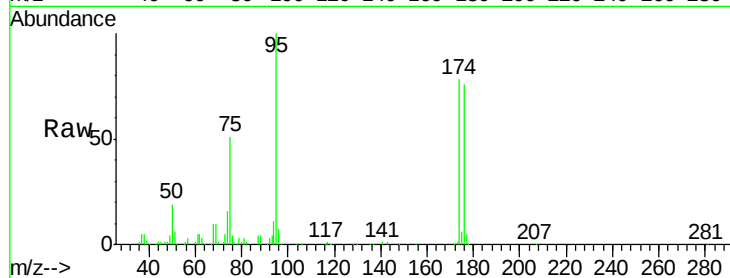
RO-11986

Tgt Ion: 75 Resp: 75892

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

50000

40000

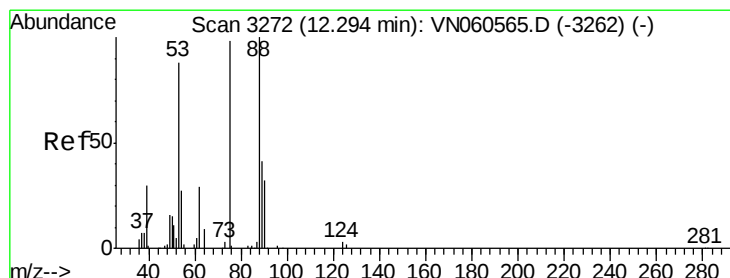
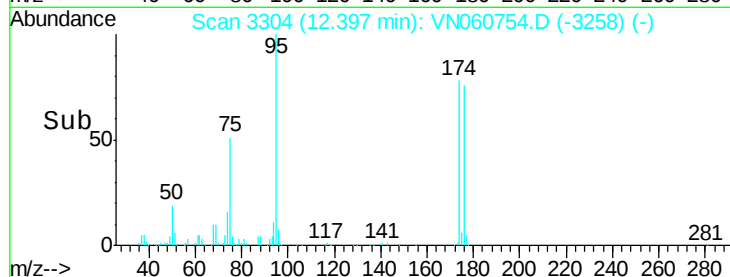
30000

20000

10000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.094 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

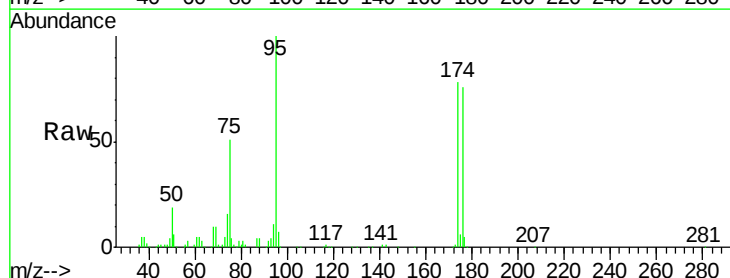
Tgt Ion: 75 Resp: 75892

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

60000

50000

40000

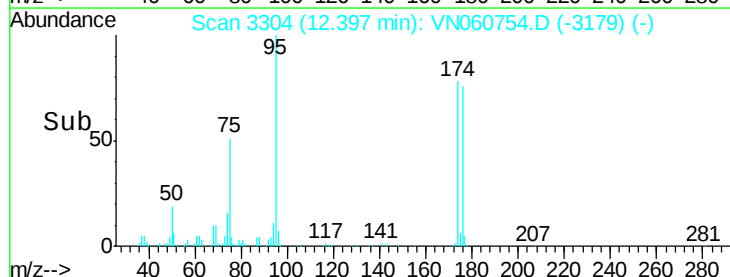
30000

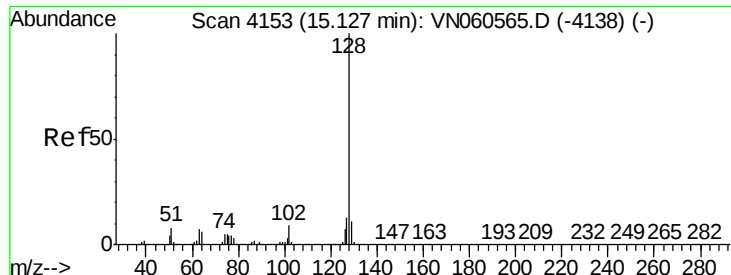
20000

10000

0

Time-->





#95

Naphthalene

Concen: 0.418 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN060754.D

Acq: 27 Mar 2020 20:16

Instrument :

MSVOA_N

ClientSampleId :

RO-11986

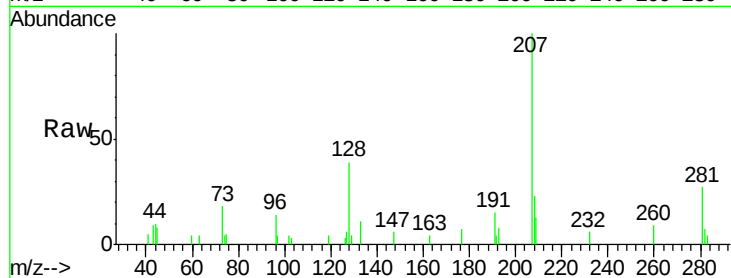
Tgt Ion:128 Resp: 3270

Ion Ratio Lower Upper

128 100

127 11.8 10.2 15.2

129 6.7 8.8 13.2#



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

