

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032720\
 Data File : VN060756.D
 Acq On : 27 Mar 2020 21:01
 Operator : JC/MD
 Sample : L2040-15
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-209

Quant Time: Mar 28 02:04:46 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	189978	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	320158	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	303248	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	140522	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	124712	47.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.64%	
35) Dibromofluoromethane	7.57	113	95006	49.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.16%	
50) Toluene-d8	10.08	98	399481	50.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.04%	
62) 4-Bromofluorobenzene	12.40	95	150117	51.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.60%	

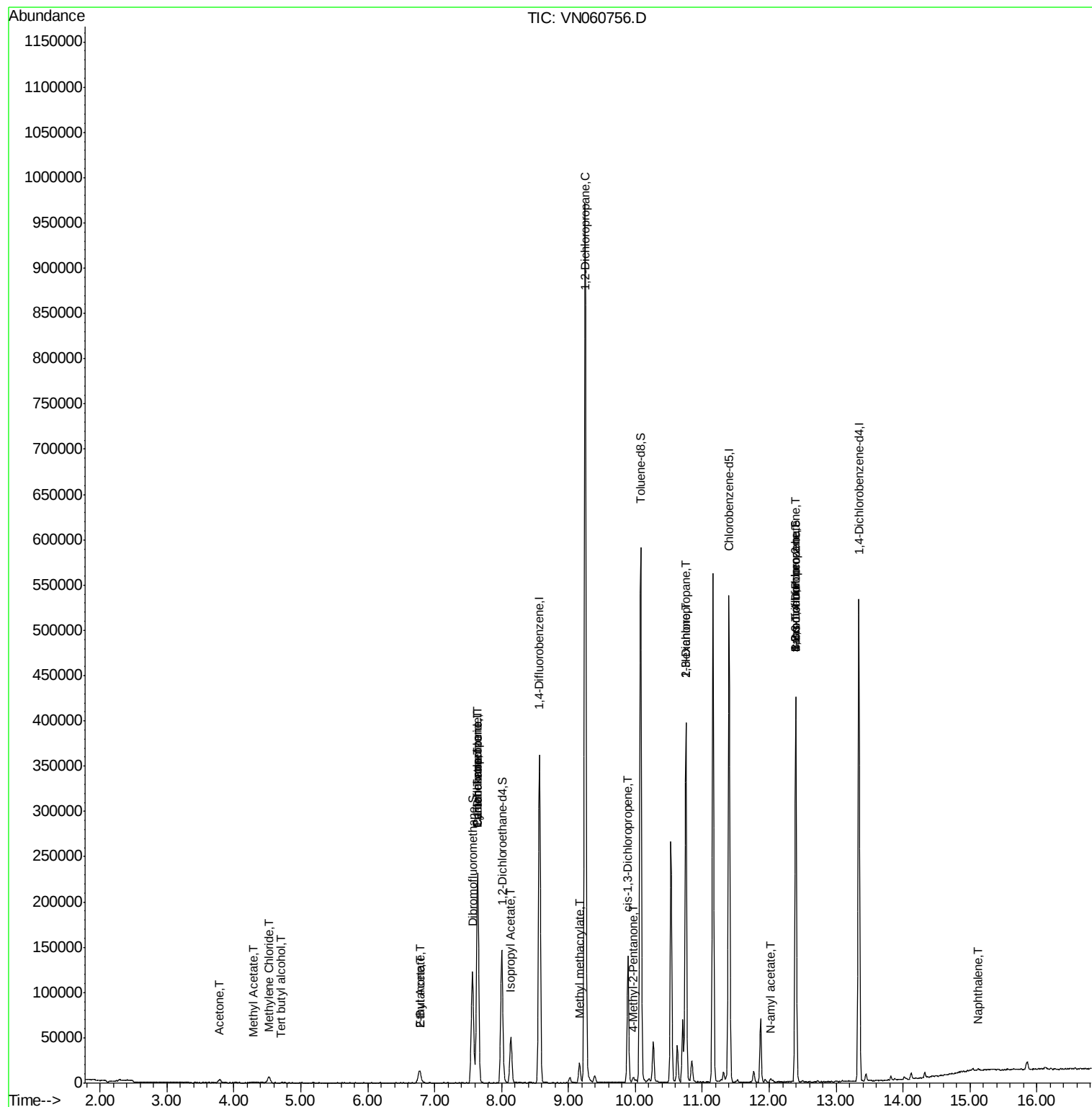
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	157	0.409	ug/l #	72
16) Acetone	3.78	43	6678	7.229	ug/l	95
18) Methyl Acetate	4.29	43	1951	0.750	ug/l #	65
20) Methylene Chloride	4.53	84	5008	2.204	ug/l	95
25) 2-Butanone	6.80	43	2888	1.932	ug/l #	90
31) Cyclohexane	7.64	56	4096	0.975	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14789	4.770	ug/l #	50
37) Ethyl Acetate	6.80	43	2888	0.862	ug/l #	70
38) Carbon Tetrachloride	7.64	117	18326	6.596	ug/l #	16
43) Isopropyl Acetate	8.14	43	59898	10.842	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1009	0.409	ug/l #	43
48) Methyl methacrylate	9.16	41	2996	1.218	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4242	1.349	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	25066	6.412	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	4027	1.067	ug/l #	42
59) 2-Hexanone	10.75	43	58957	26.035	ug/l #	52
71) Bromoform	12.39	173	288	1.834	ug/l #	29
74) N-amyl acetate	12.02	43	3778	0.775	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	74722	24.643	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	74722	63.291	ug/l #	13
95) Naphthalene	15.13	128	2151	0.272	ug/l #	73

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

Instrument :

MSVOA_N

ClientSampled :

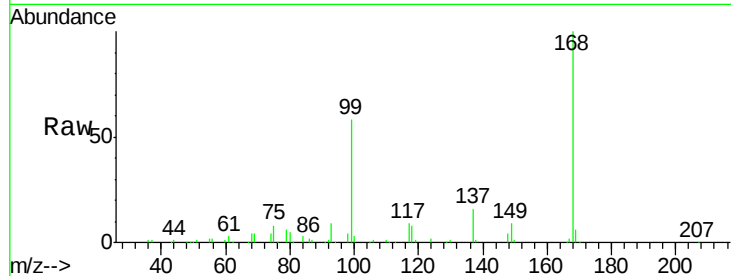
RO-209

Tgt Ion:168 Resp: 189978

Ion Ratio Lower Upper

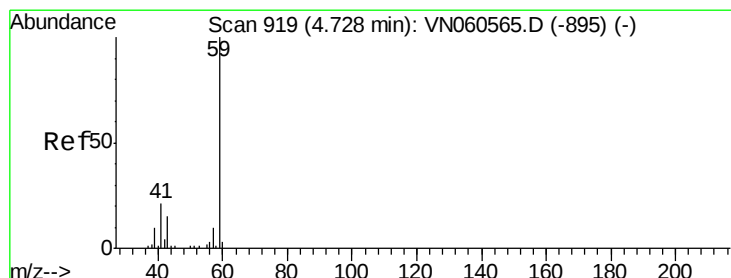
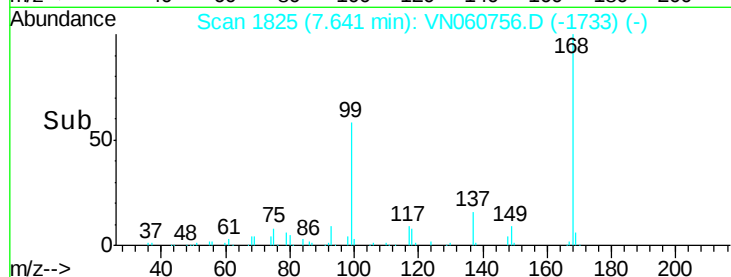
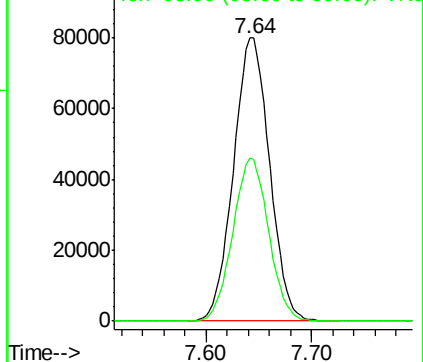
168 100

99 57.8 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.409 ug/l

RT: 4.71 min Scan# 914

Delta R.T. -0.02 min

Lab File: VN060756.D

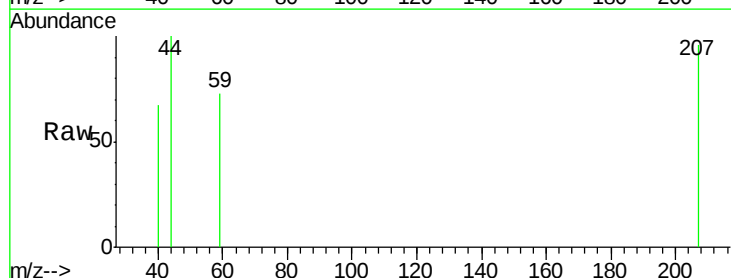
Acq: 27 Mar 2020 21:01

Tgt Ion: 59 Resp: 157

Ion Ratio Lower Upper

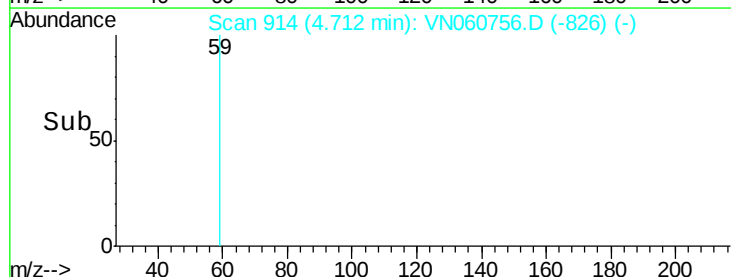
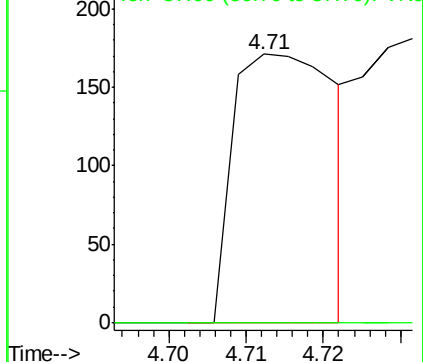
59 100

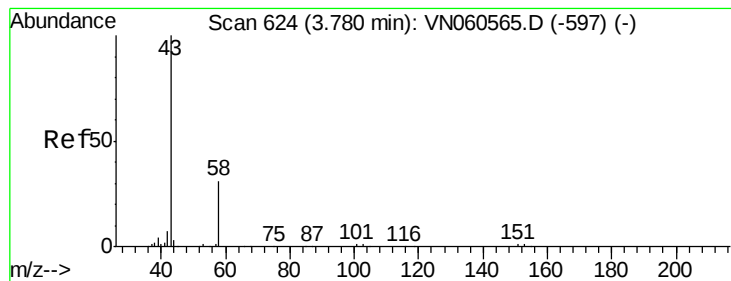
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 7.229 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

Instrument :

MSVOA_N

ClientSampled :

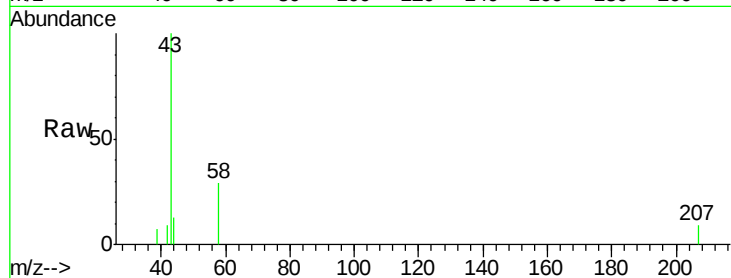
RO-209

Tgt Ion: 43 Resp: 6678

Ion Ratio Lower Upper

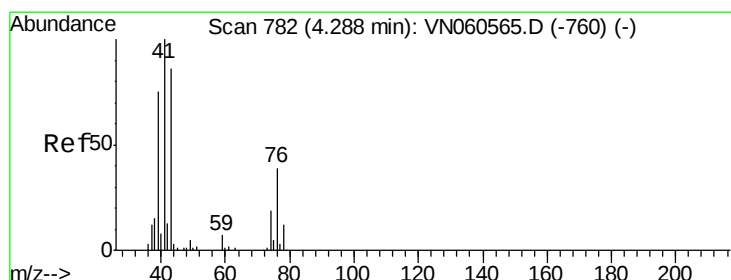
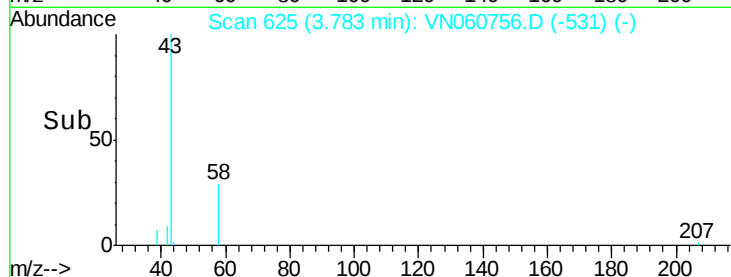
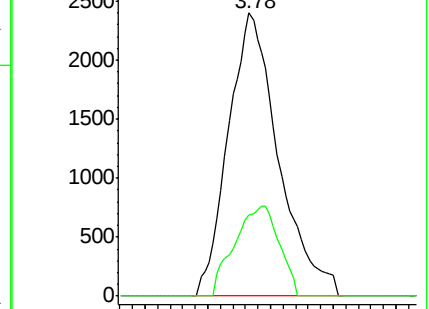
43 100

58 28.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060756.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060756.D (-597) (-)



#18

Methyl Acetate

Concen: 0.750 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN060756.D

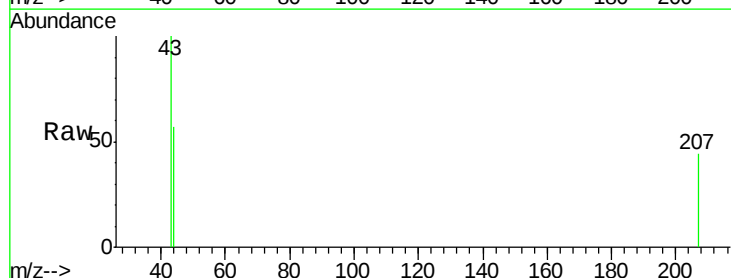
Acq: 27 Mar 2020 21:01

Tgt Ion: 43 Resp: 1951

Ion Ratio Lower Upper

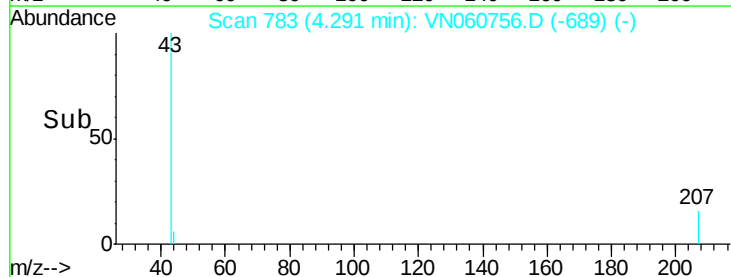
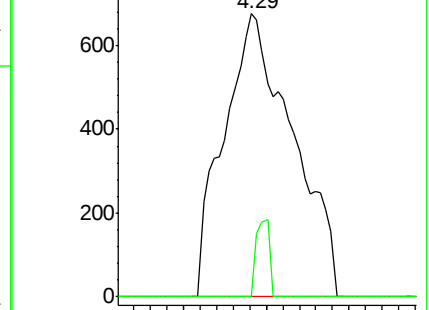
43 100

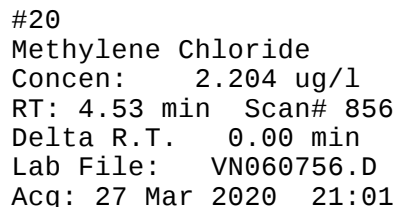
74 5.1 17.5 26.3#



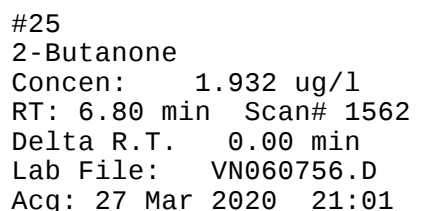
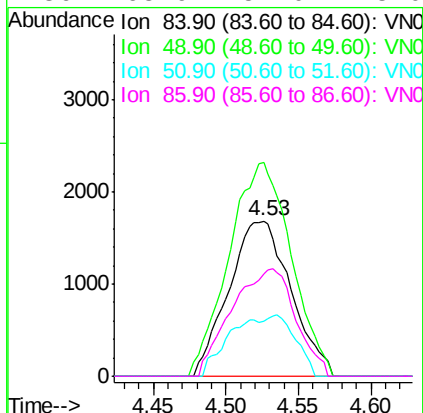
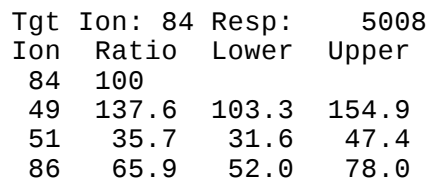
Abundance Ion 43.00 (42.70 to 43.70): VN060756.D (-689) (-)

Ion 74.00 (73.70 to 74.70): VN060756.D (-689) (-)

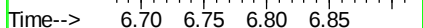
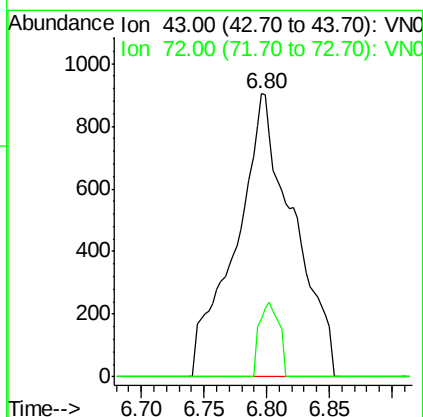


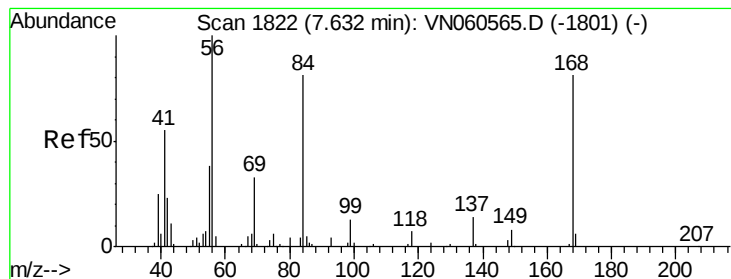


Instrument :
MSVOA_N
ClientSampleId :
RO-209



Tgt	Ion: 43	Resp:	2888
Ion	Ratio	Lower	Upper
43	100		
72	20.4	20.4	30.6#





#31

Cyclohexane

Concen: 0.975 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

Instrument :

MSVOA_N

ClientSampled :

RO-209

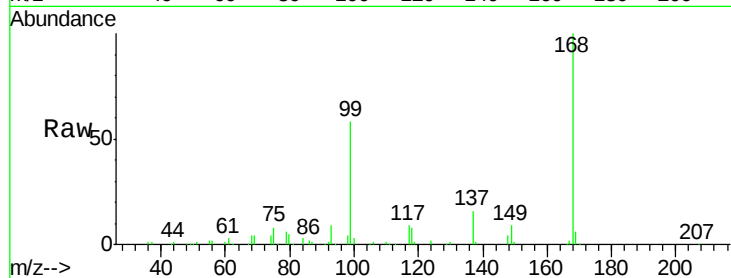
Tgt Ion: 56 Resp: 4096

Ion Ratio Lower Upper

56 100

69 168.0 26.6 40.0#

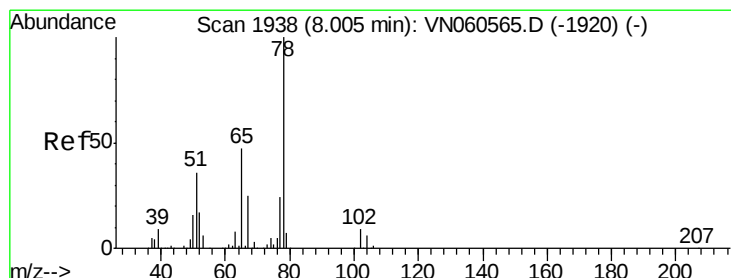
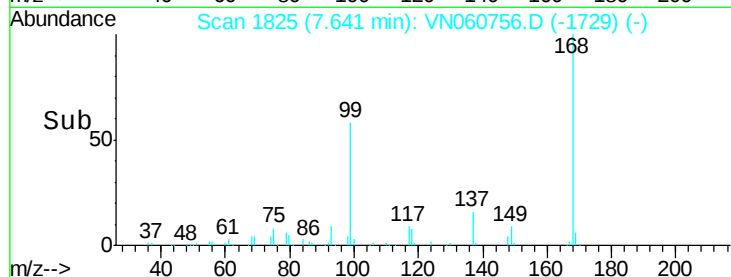
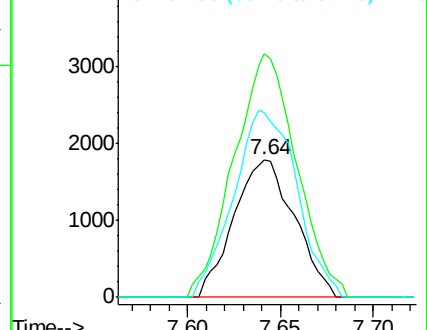
84 134.6 64.3 96.5#



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: 47.820 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060756.D

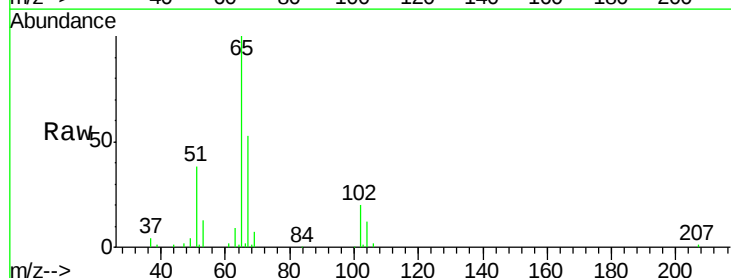
Acq: 27 Mar 2020 21:01

Tgt Ion: 65 Resp: 124712

Ion Ratio Lower Upper

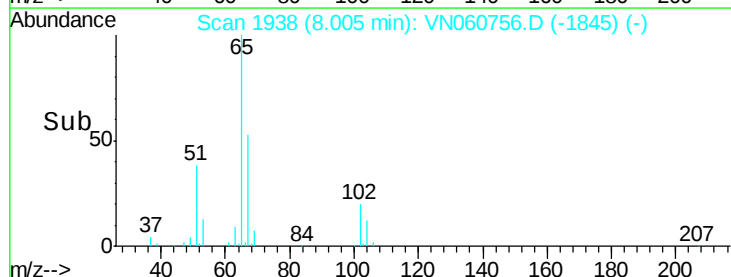
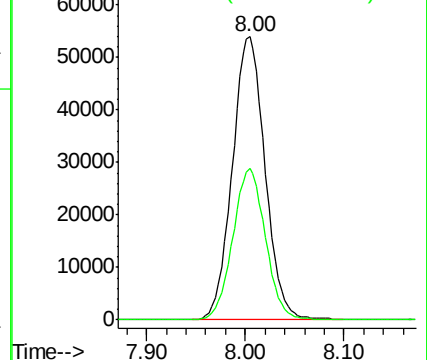
65 100

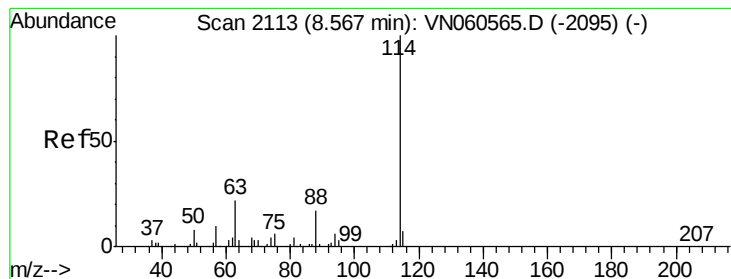
67 53.1 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

Instrument :

MSVOA_N

ClientSampleId :

RO-209

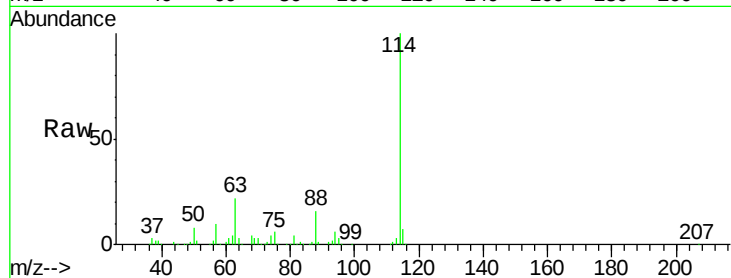
Tgt Ion:114 Resp: 320158

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

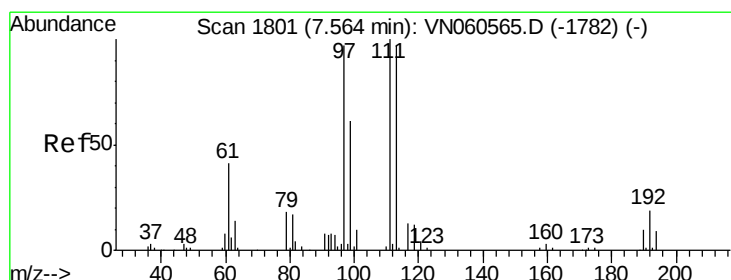
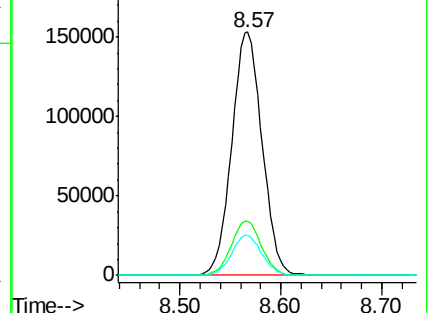
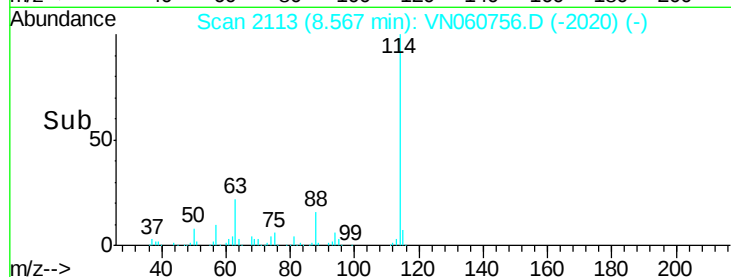
88 16.5 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.076 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

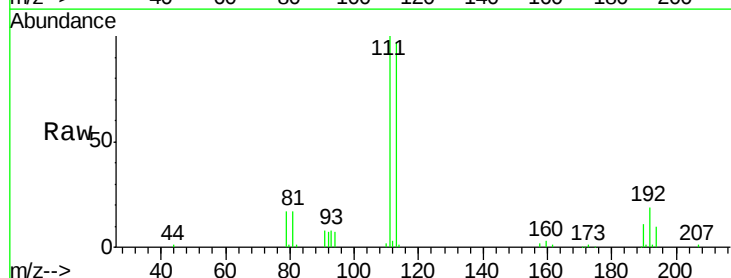
Tgt Ion:113 Resp: 95006

Ion Ratio Lower Upper

113 100

111 102.3 82.9 124.3

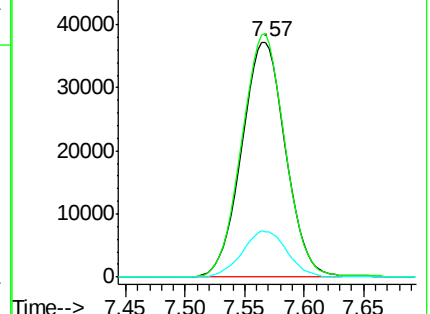
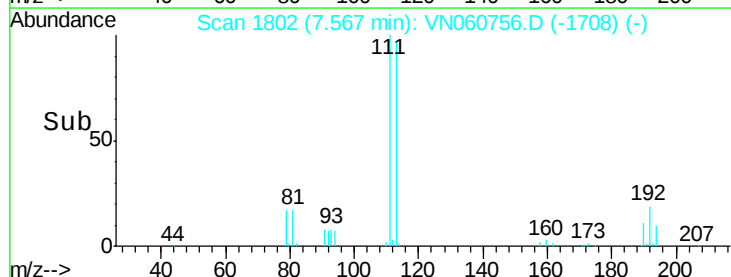
192 20.1 15.8 23.8

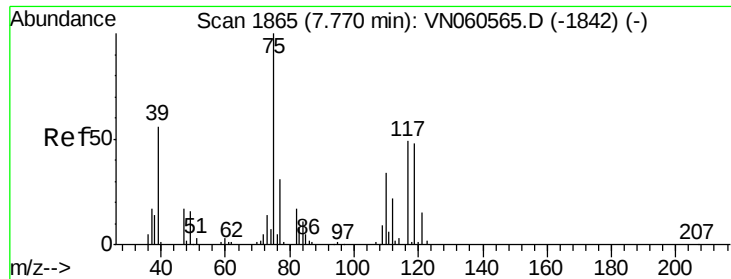


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

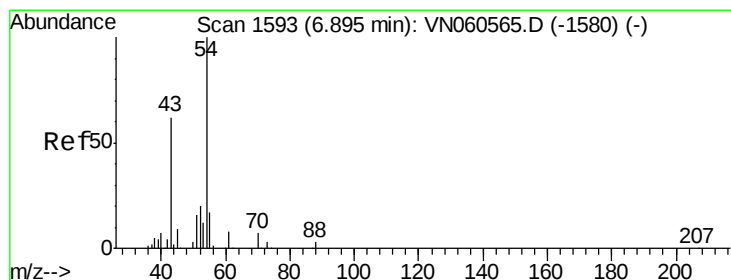
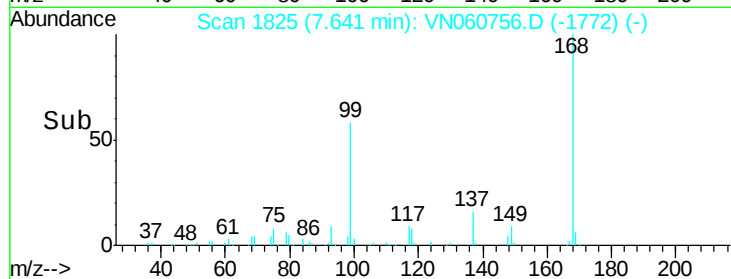
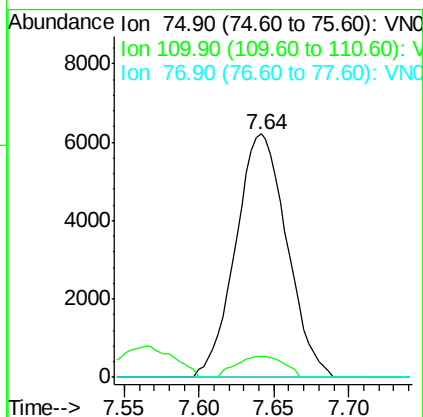
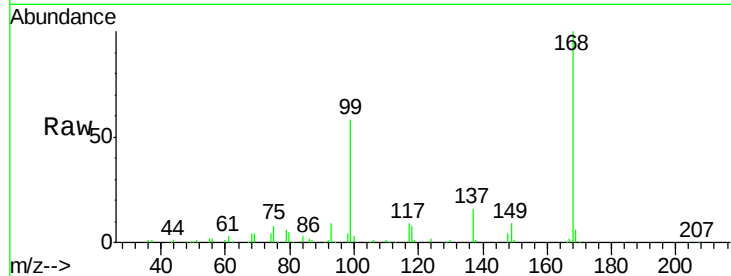




#36
 1,1-Dichloropropene
 Concen: 4.770 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060756.D
 Acq: 27 Mar 2020 21:01

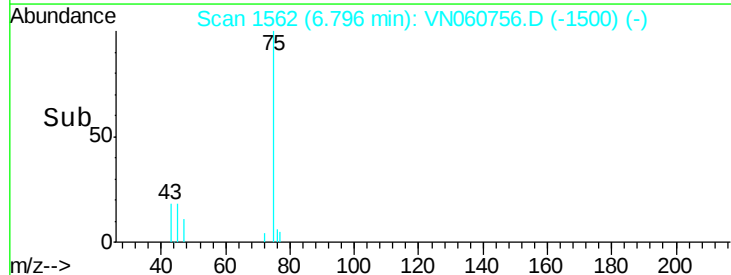
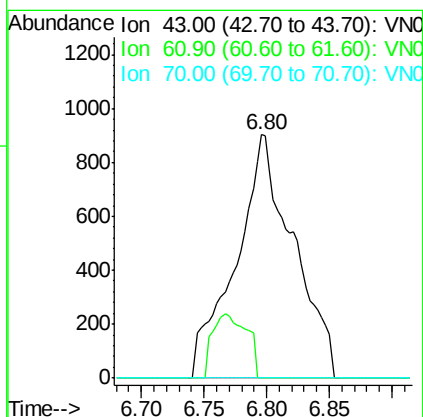
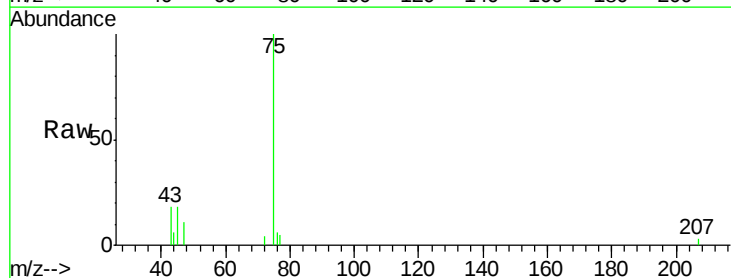
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 MSVOA_N
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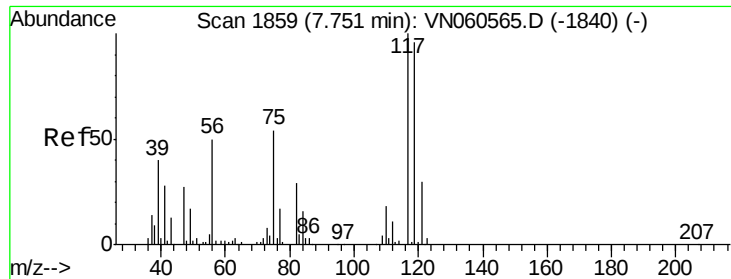
Tgt Ion: 75 Resp: 14789
 Ion Ratio Lower Upper
 75 100
 110 8.1 16.9 50.6#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 0.862 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. -0.10 min
 Lab File: VN060756.D
 Acq: 27 Mar 2020 21:01

Tgt Ion: 43 Resp: 2888
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 6.596 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

Instrument :

MSVOA_N

ClientSampled :

RO-209

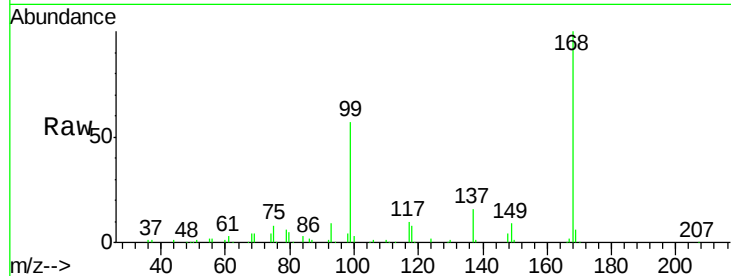
Tgt Ion:117 Resp: 18326

Ion Ratio Lower Upper

117 100

119 4.6 76.2 114.2#

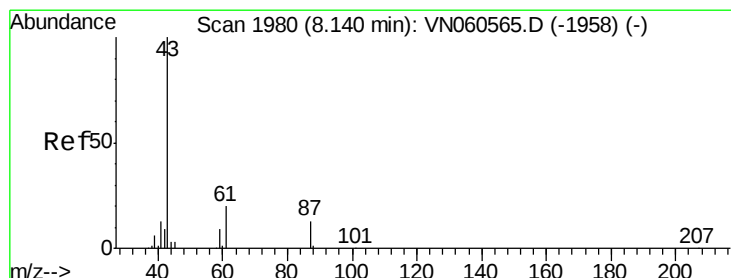
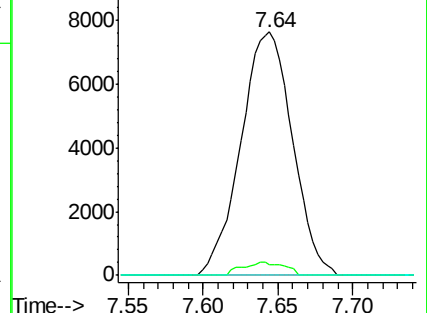
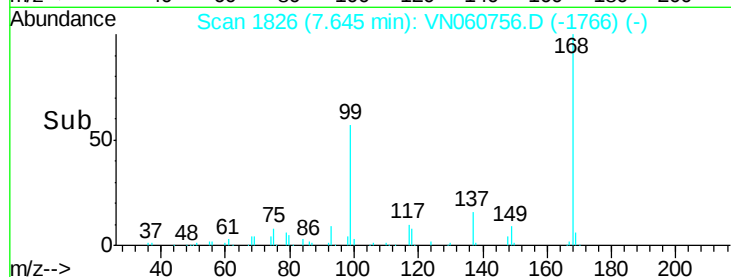
121 0.0 23.7 35.5#



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: 10.842 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

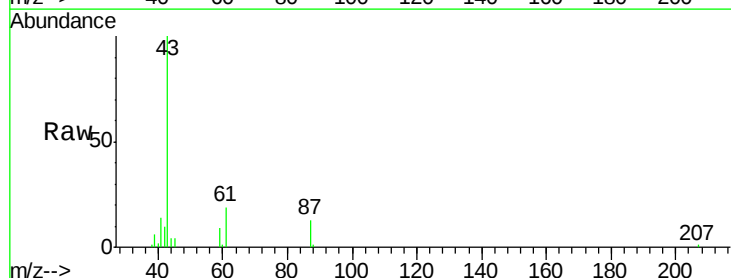
Tgt Ion: 43 Resp: 59898

Ion Ratio Lower Upper

43 100

61 19.1 20.7 31.1#

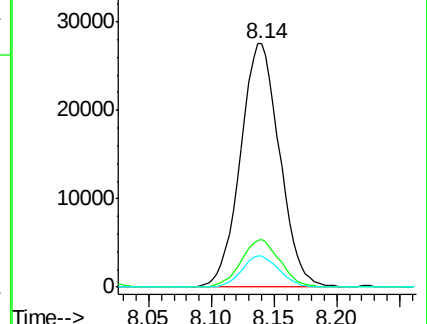
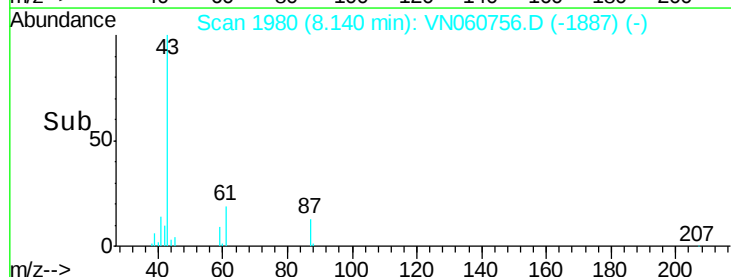
87 11.9 9.8 14.8

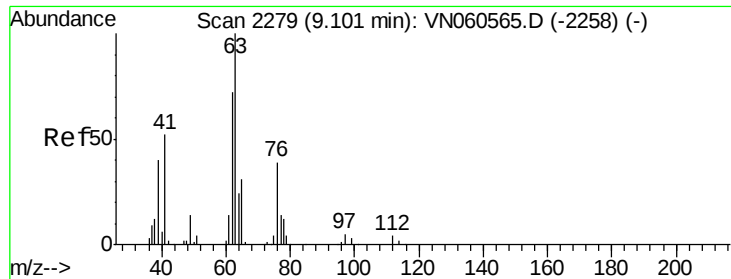


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.409 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

Instrument :

MSVOA_N

ClientSampleId :

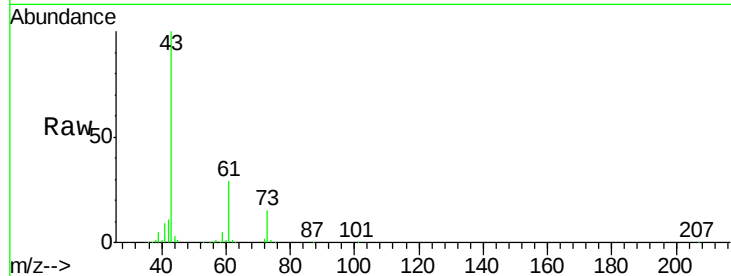
RO-209

Tgt Ion: 63 Resp: 1009

Ion Ratio Lower Upper

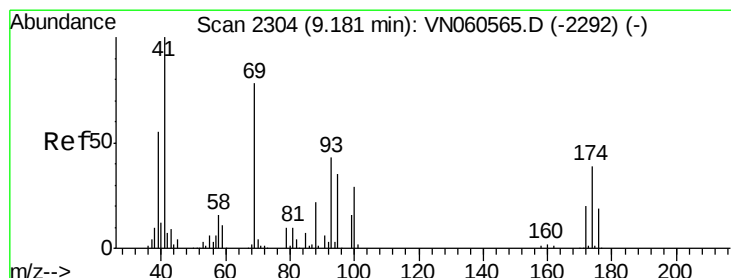
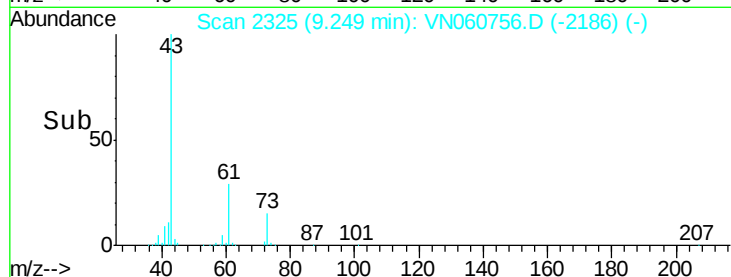
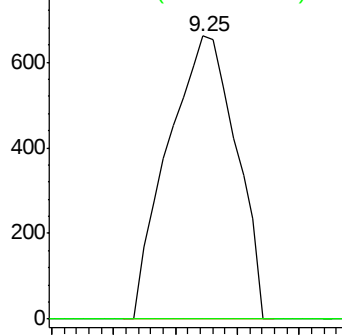
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.218 ug/l

RT: 9.16 min Scan# 2296

Delta R.T. -0.03 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

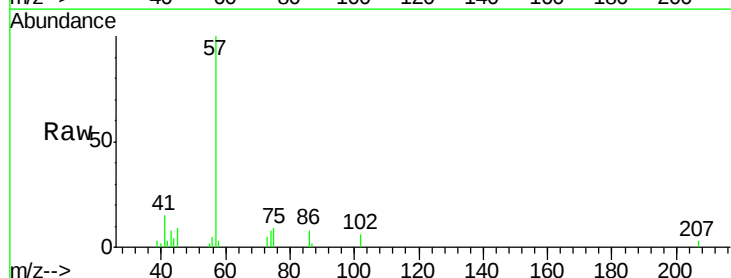
Tgt Ion: 41 Resp: 2996

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

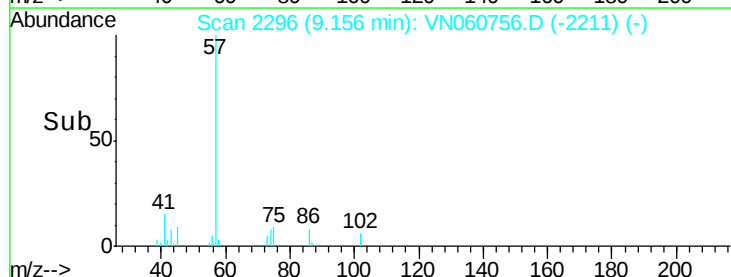
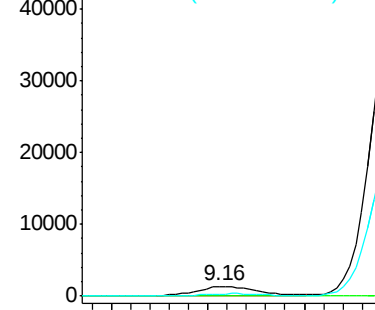
39 0.0 44.0 66.0#

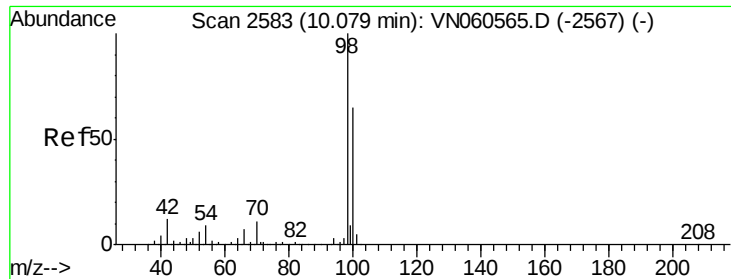


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

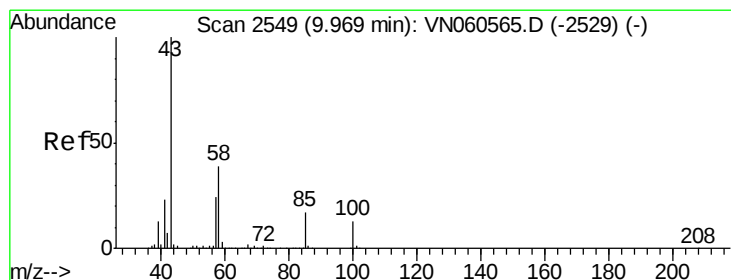
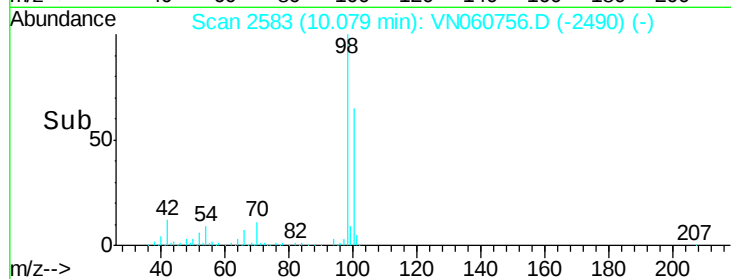
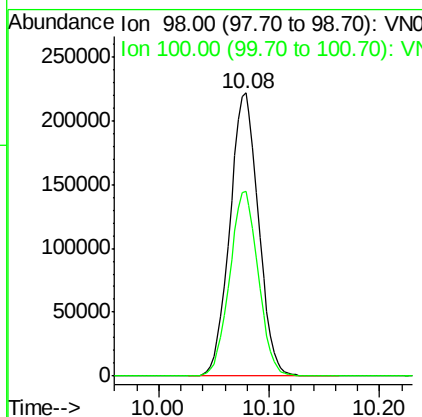
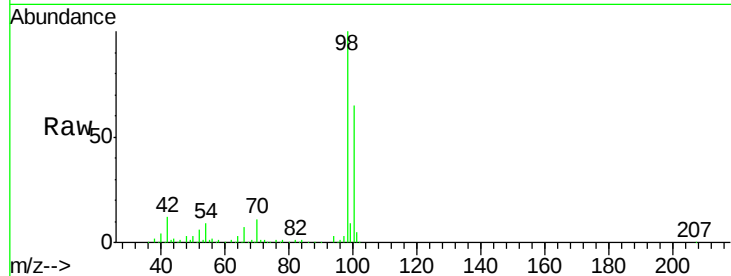




#50
Toluene-d8
Concen: 50.520 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060756.D
Acq: 27 Mar 2020 21:01

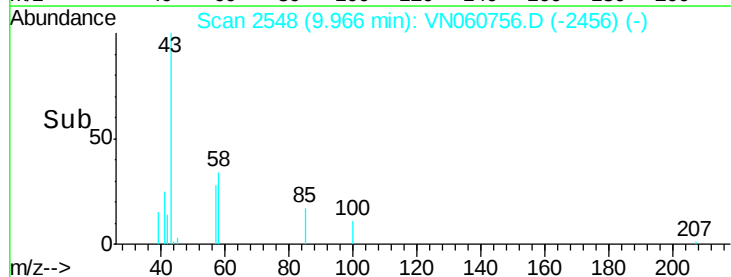
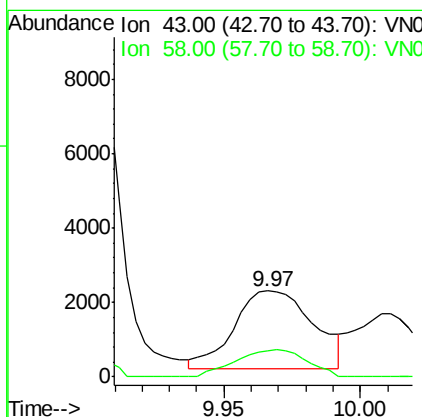
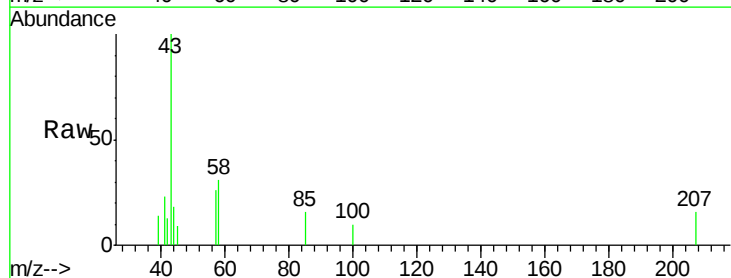
Instrument :
MSVOA_N
ClientSampled :
RO-209

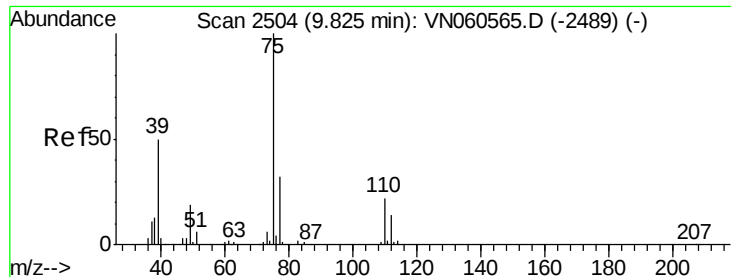
Tgt Ion: 98 Resp: 399481
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.349 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. -0.00 min
Lab File: VN060756.D
Acq: 27 Mar 2020 21:01

Tgt Ion: 43 Resp: 4242
Ion Ratio Lower Upper
43 100
58 31.4 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 6.412 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

Instrument :

MSVOA_N

ClientSampleId :

RO-209

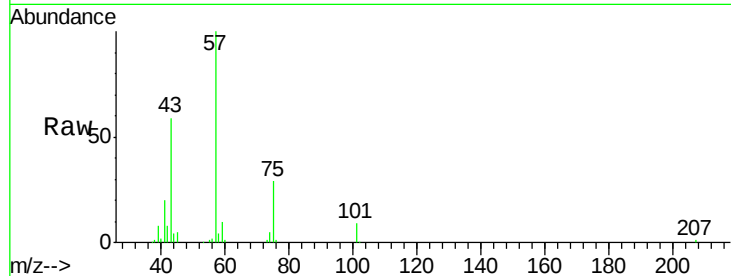
Tgt Ion: 75 Resp: 25066

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

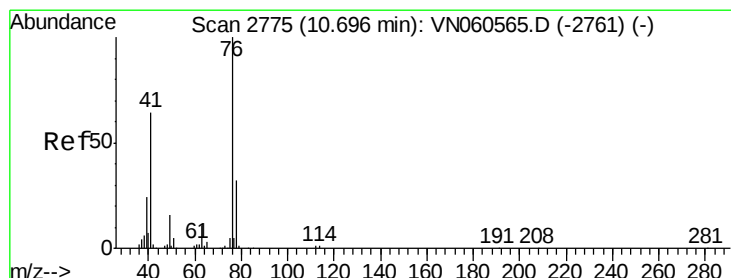
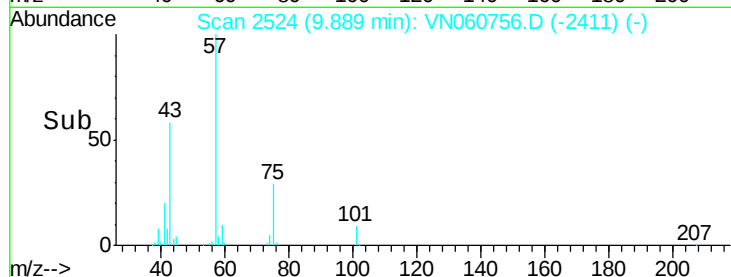
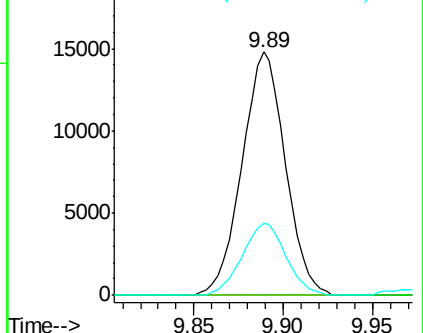
39 29.4 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060756.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060756.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060756.D (-2411) (-)



#57

1,3-Dichloropropane

Concen: 1.067 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060756.D

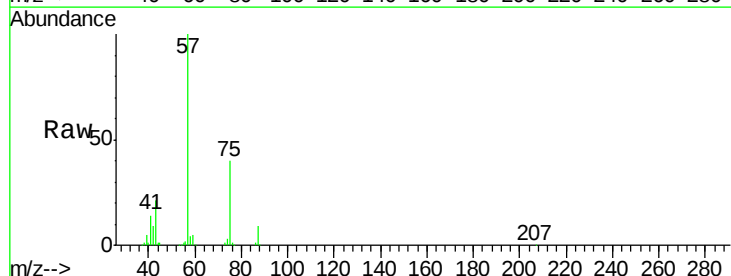
Acq: 27 Mar 2020 21:01

Tgt Ion: 76 Resp: 4027

Ion Ratio Lower Upper

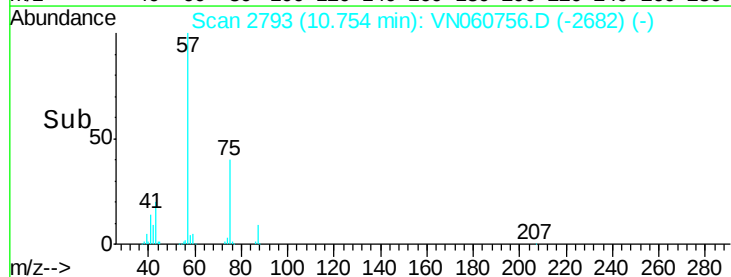
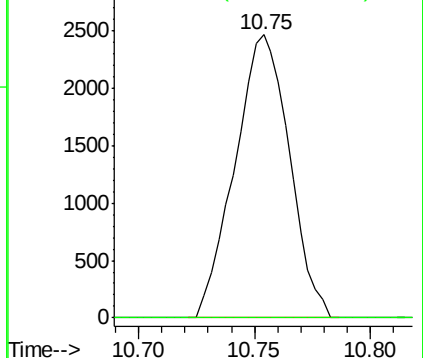
76 100

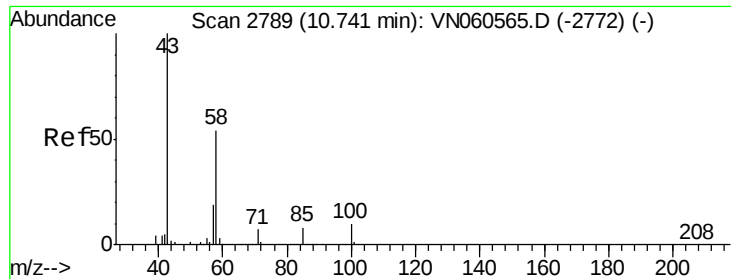
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060756.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060756.D (-2682) (-)

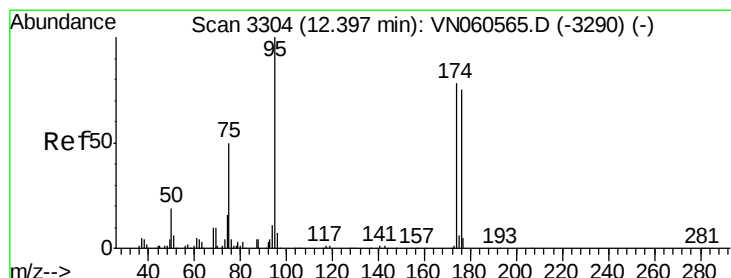
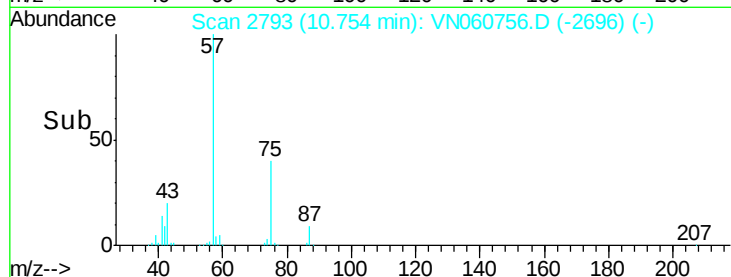
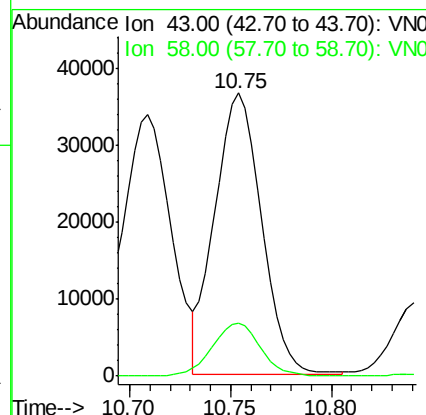
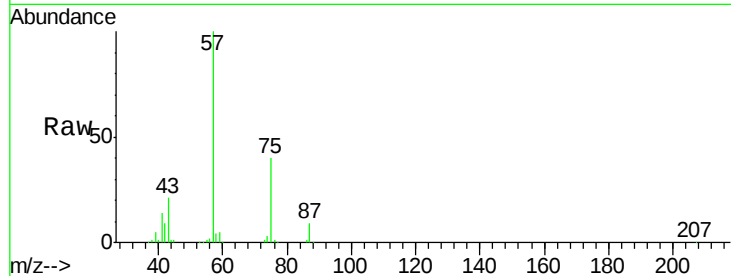




#59
2-Hexanone
Concen: 26.035 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060756.D
Acq: 27 Mar 2020 21:01

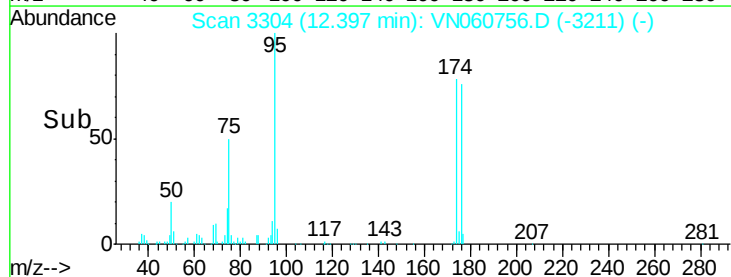
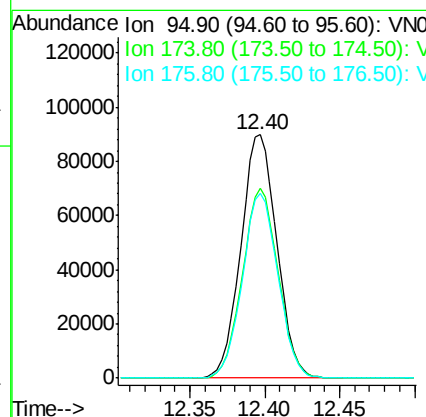
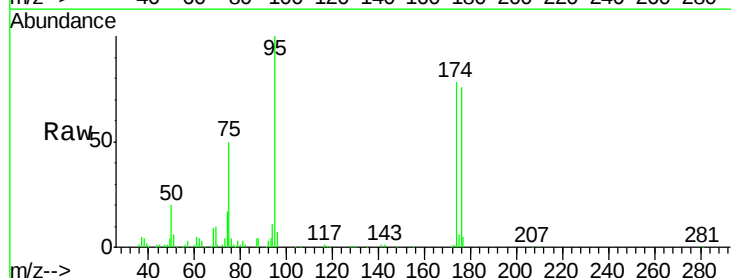
Instrument :
MSVOA_N
ClientSampled :
RO-209

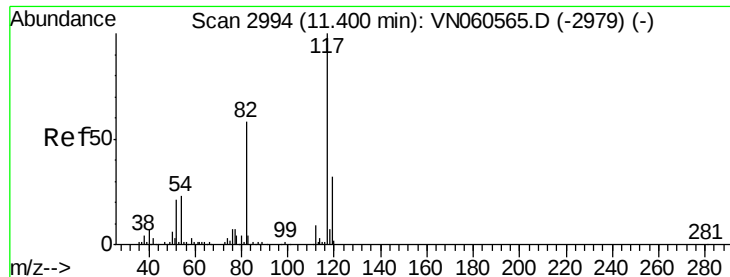
Tgt Ion: 43 Resp: 58957
Ion Ratio Lower Upper
43 100
58 19.3 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.801 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060756.D
Acq: 27 Mar 2020 21:01

Tgt Ion: 95 Resp: 150117
Ion Ratio Lower Upper
95 100
174 77.5 0.0 157.6
176 75.2 0.0 150.6

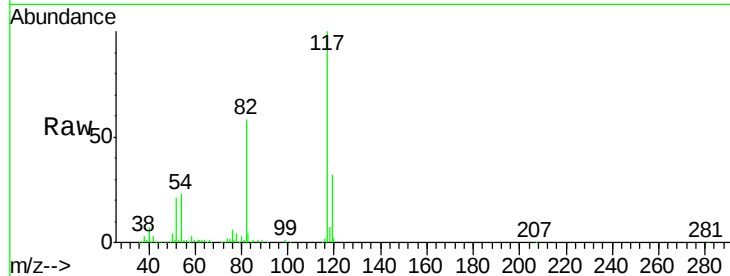




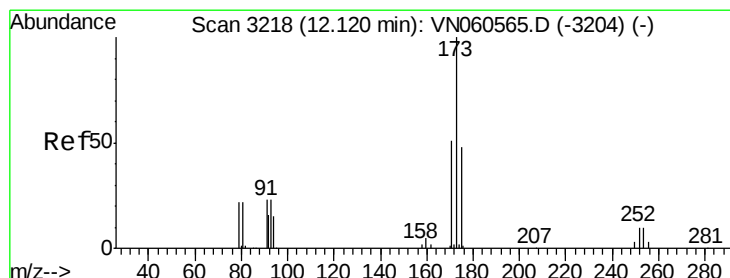
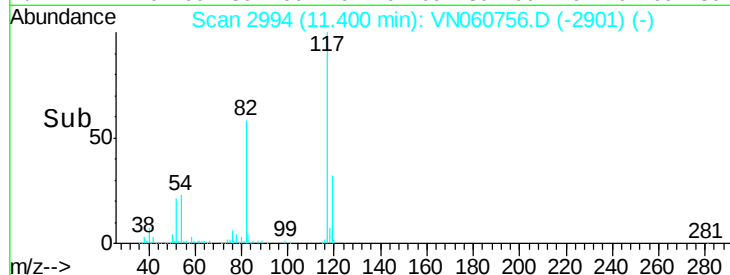
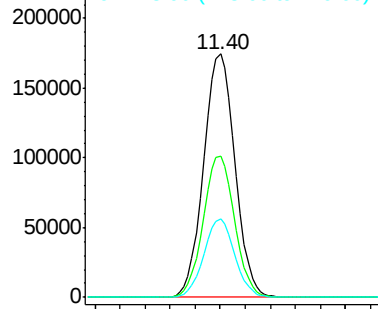
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060756.D
Acq: 27 Mar 2020 21:01

Instrument :
MSVOA_N
ClientSampleId :
RO-209

Tgt Ion:117 Resp: 303248
Ion Ratio Lower Upper
117 100
82 57.9 46.7 70.1
119 32.0 25.5 38.3

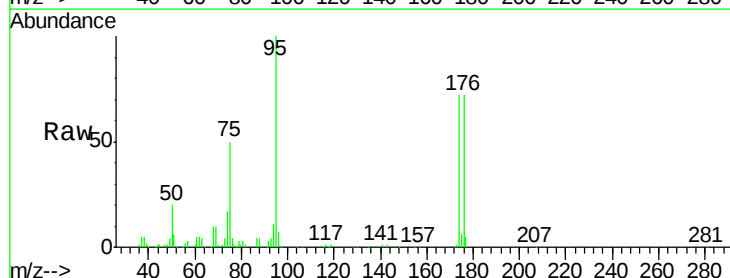


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

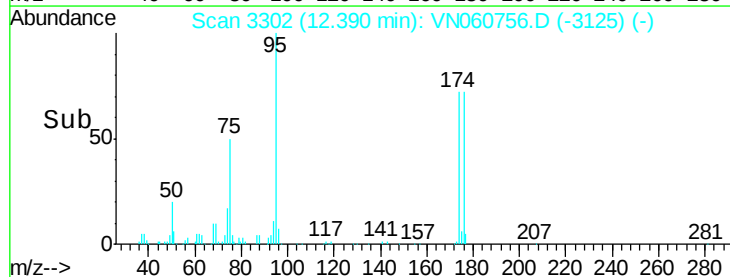
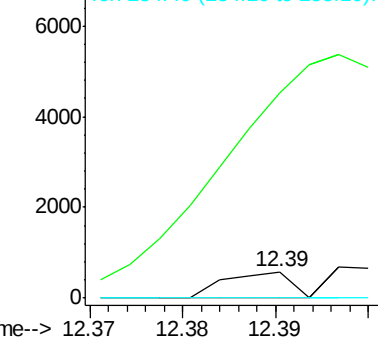


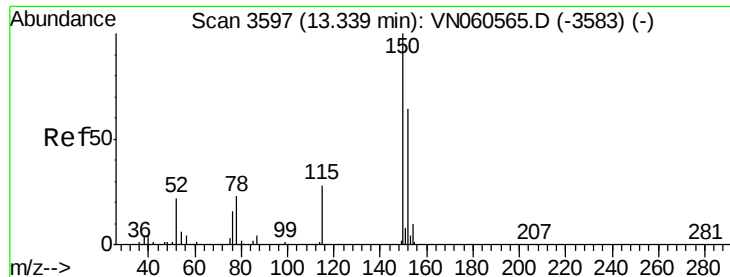
#71
Bromoform
Concen: 1.834 ug/l
RT: 12.39 min Scan# 3302
Delta R.T. 0.27 min
Lab File: VN060756.D
Acq: 27 Mar 2020 21:01

Tgt Ion:173 Resp: 288
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: VN060756.D

Acq: 27 Mar 2020 21:01

Instrument :

MSVOA_N

ClientSampleId :

RO-209

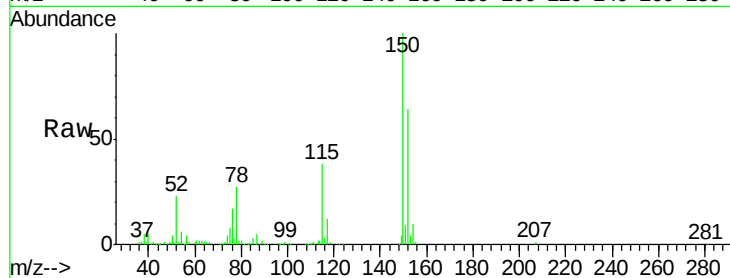
Tgt Ion:152 Resp: 140522

Ion Ratio Lower Upper

152 100

115 59.7 30.2 90.6

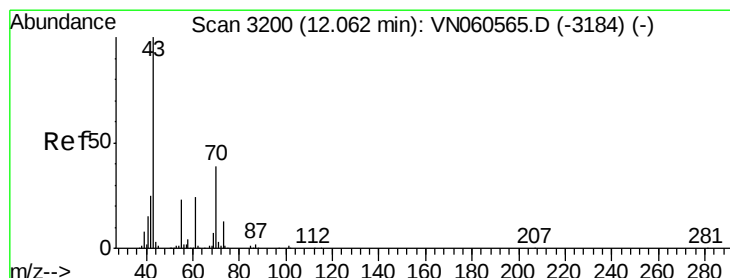
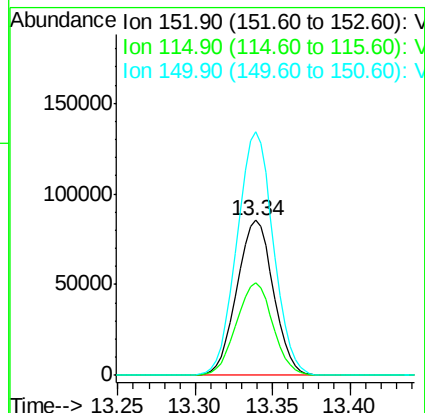
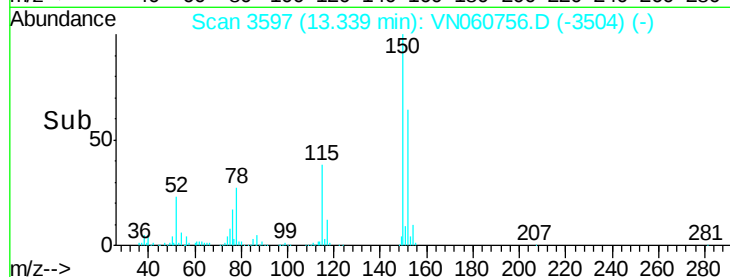
150 156.2 0.0 350.2



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: 0.775 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

Tgt Ion: 43 Resp: 3778

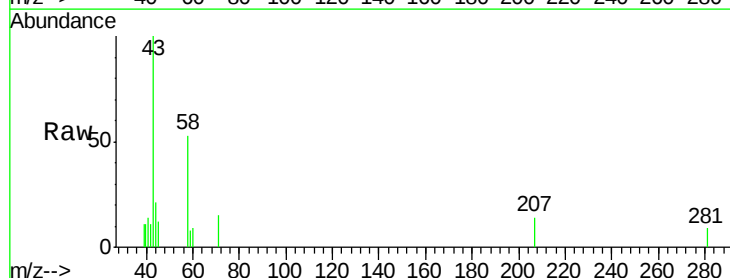
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.8 18.6 27.8#

61 0.0 18.9 28.3#

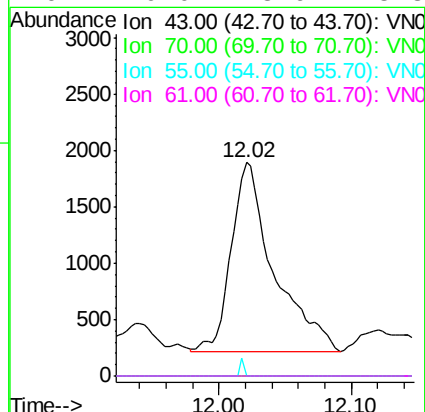
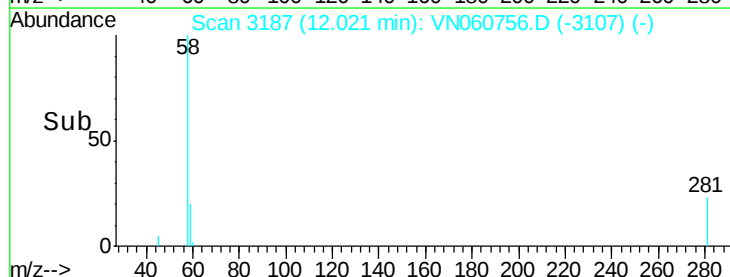


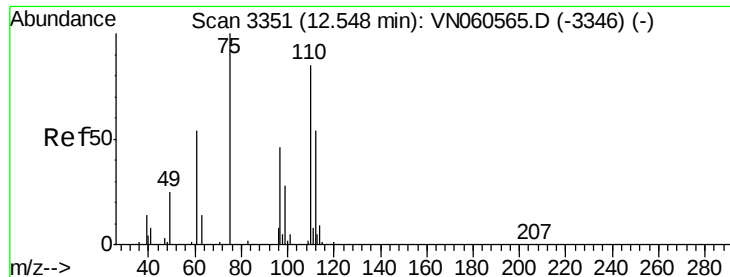
Abundance Ion 43.00 (42.70 to 43.70): V

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: 24.643 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

Instrument :

MSVOA_N

ClientSampled :

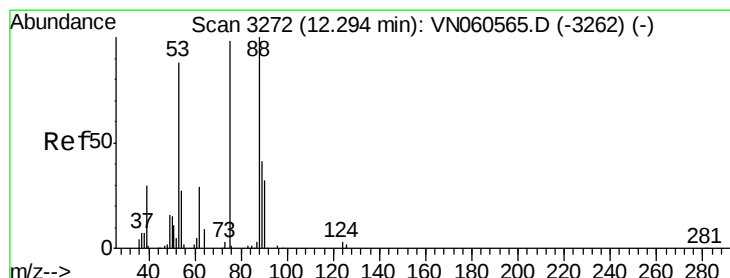
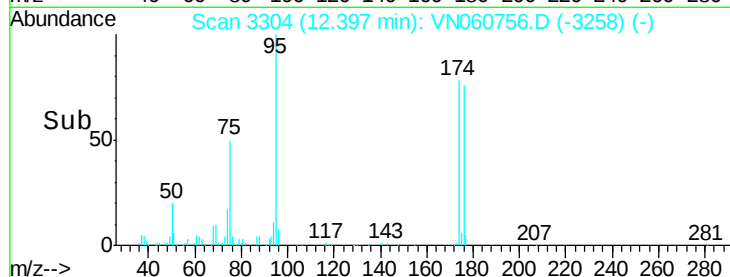
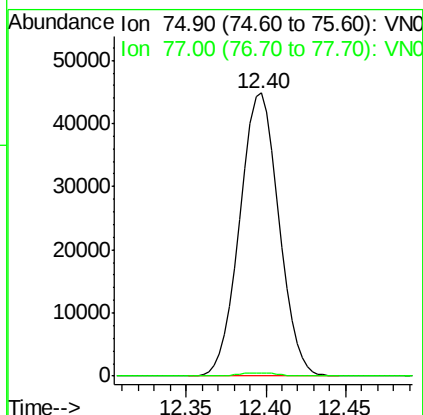
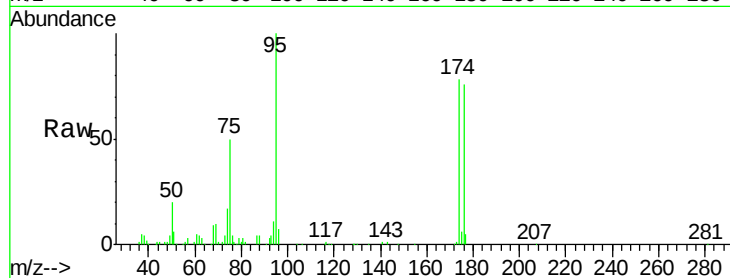
RO-209

Tgt Ion: 75 Resp: 74722

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.291 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

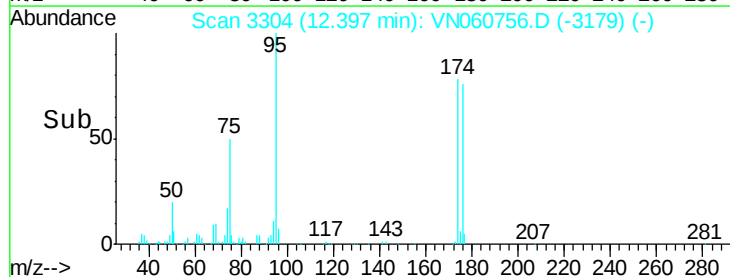
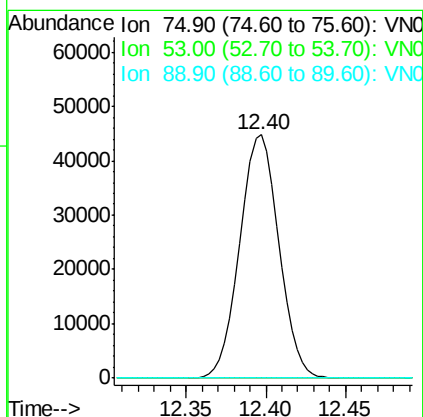
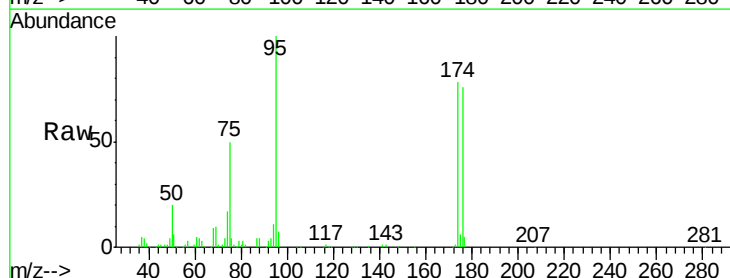
Tgt Ion: 75 Resp: 74722

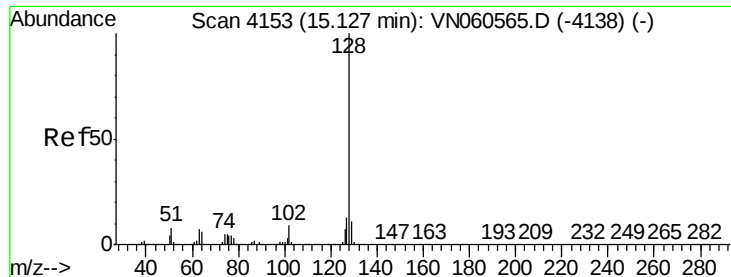
Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#





#95

Naphthalene

Concen: 0.272 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN060756.D

Acq: 27 Mar 2020 21:01

Instrument :

MSVOA_N

ClientSampleId :

RO-209

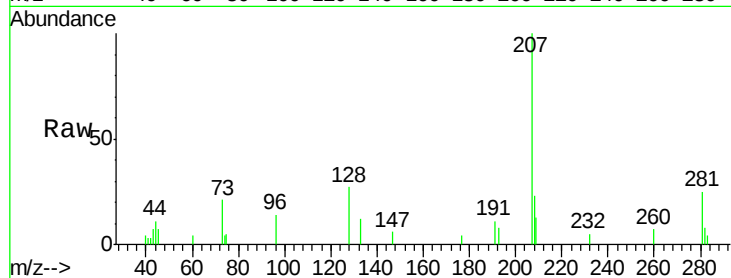
Tgt Ion:128 Resp: 2151

Ion Ratio Lower Upper

128 100

127 2.7 10.2 15.2#

129 0.0 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

