

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063670.D
 Acq On : 25 Sep 2020 9:01
 Operator : JC/MD
 Sample : L4098-21 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SEAL-POT

Quant Time: Sep 25 09:20:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	192659	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	363838	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	375261	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	166563	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	165780	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
35) Dibromofluoromethane	7.55	113	118820	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
50) Toluene-d8	10.06	98	458595	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
62) 4-Bromofluorobenzene	12.38	95	187121	53.90	ug/l	0.00
Spiked Amount			Recovery	=	107.80%	

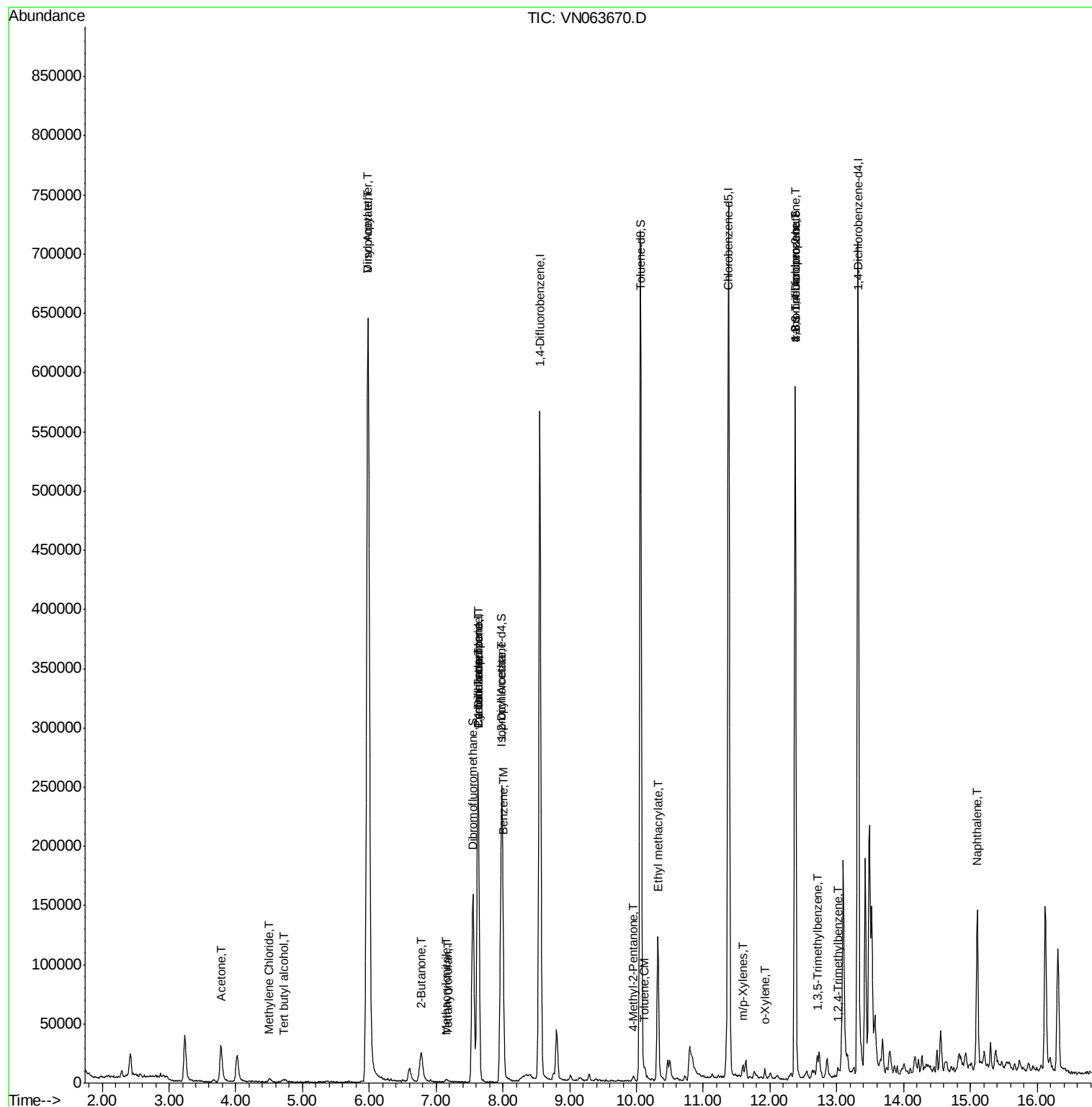
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	3715	8.177	ug/l #	93
16) Acetone	3.78	43	51605	48.961	ug/l	97
20) Methylene Chloride	4.50	84	1989	0.745	ug/l #	90
22) Diisopropyl ether	5.98	45	51448	5.866	ug/l #	1
23) Vinyl Acetate	5.98	43	142583	19.795	ug/l #	75
25) 2-Butanone	6.79	43	4921	3.036	ug/l	98
29) Tetrahydrofuran	7.17	42	231	0.209	ug/l #	36
31) Cyclohexane	7.62	56	5479	1.210	ug/l #	36
36) 1,1-Dichloropropene	7.63	75	17918	4.623	ug/l #	52
38) Carbon Tetrachloride	7.63	117	21061	5.323	ug/l #	17
40) Benzene	8.01	78	3136	0.283	ug/l #	72
41) Methacrylonitrile	7.15	41	578	0.338	ug/l #	100
43) Isopropyl Acetate	7.97	43	72169	10.609	ug/l #	71
51) 4-Methyl-2-Pentanone	9.96	43	2830	0.743	ug/l	99
52) Toluene	10.12	92	2821	0.424	ug/l	96
56) Ethyl methacrylate	10.32	69	5116	1.240	ug/l #	1
68) m/p-Xylenes	11.60	106	2900	0.536	ug/l	100
69) o-Xylene	11.93	106	1597	0.310	ug/l	81
76) 1,2,3-Trichloropropane	12.38	75	107640	26.109	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2741	0.246	ug/l	82
81) trans-1,4-Dichloro-2-buten	12.38	75	107640	71.582	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.02	105	4869	0.433	ug/l	96
95) Naphthalene	15.10	128	106739	10.031	ug/l	99

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

Instrument :

MSVOA_N

ClientSampleId :

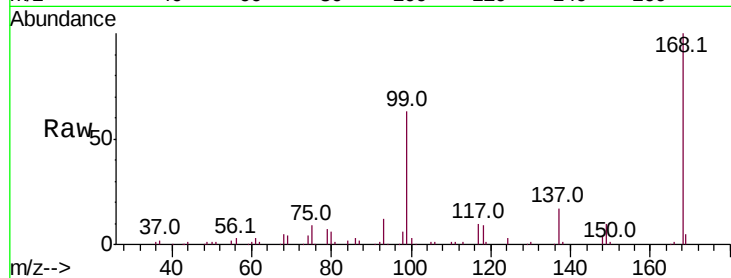
SEAL-POT

Tot Ion:168 Resp: 192659

Ion Ratio Lower Upper

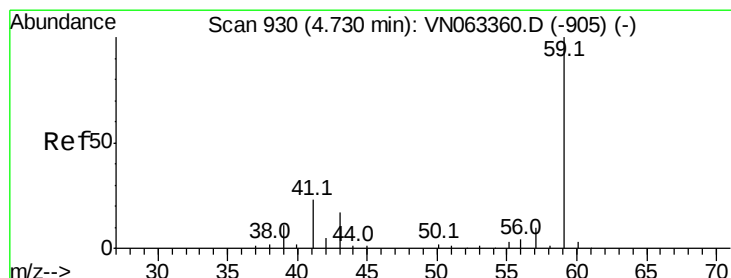
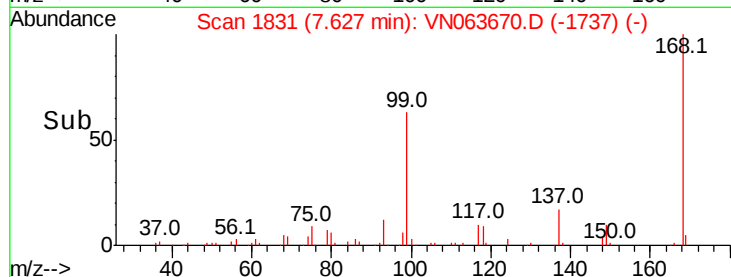
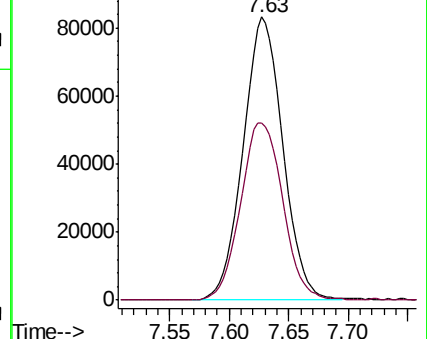
168 100

99 62.7 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 8.177 ug/l

RT: 4.72 min Scan# 928

Delta R.T. -0.01 min

Lab File: VN063670.D

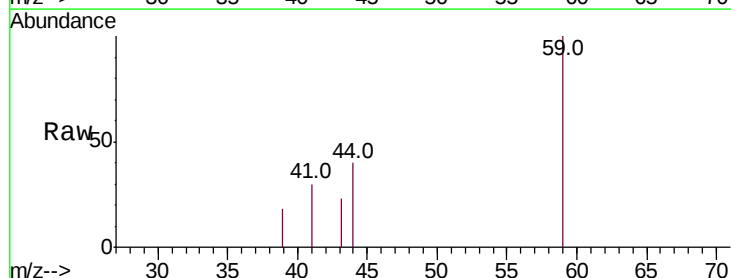
Acq: 25 Sep 2020 9:01

Tgt Ion: 59 Resp: 3715

Ion Ratio Lower Upper

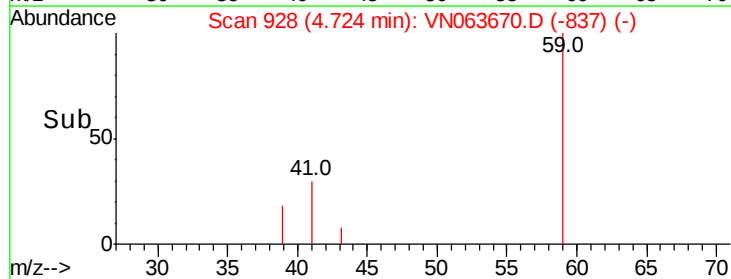
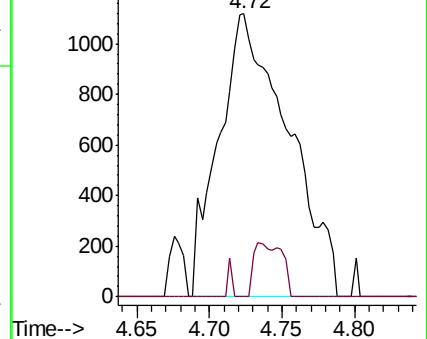
59 100

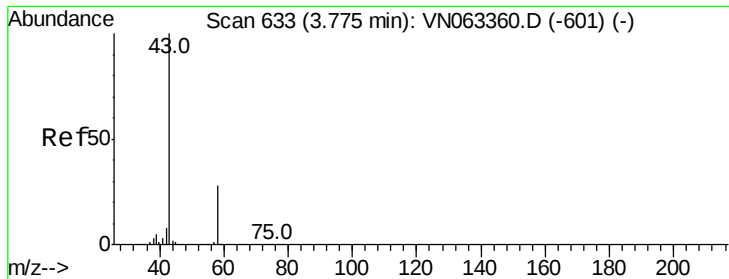
57 7.8 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 48.961 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

Instrument :

MSVOA_N

ClientSampleId :

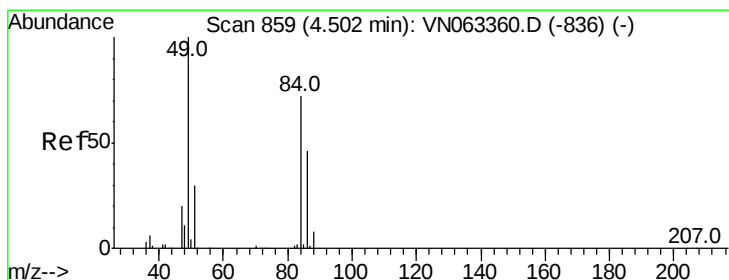
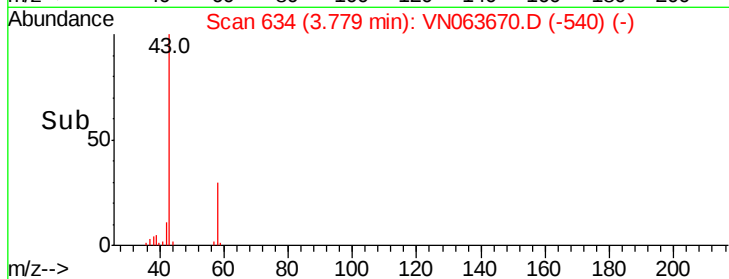
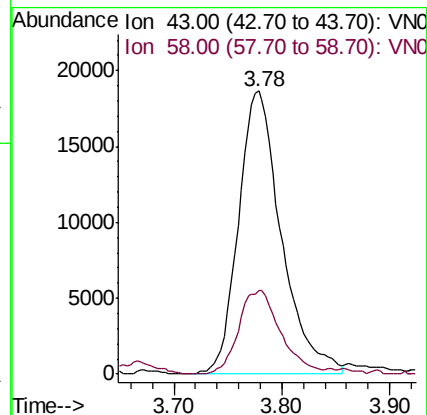
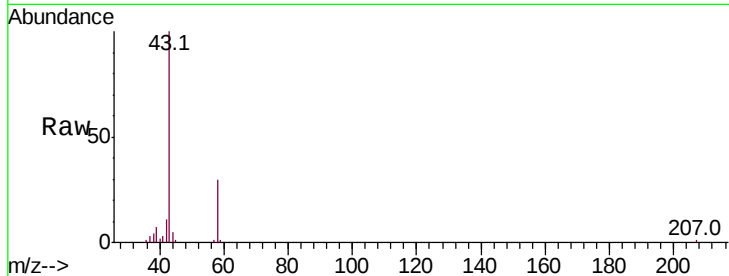
SEAL-POT

Tot Ion: 43 Resp: 51605

Ion Ratio Lower Upper

43 100

58 29.5 22.3 33.5



#20

Methylene Chloride

Concen: 0.745 ug/l

RT: 4.50 min Scan# 859

Delta R.T. -0.00 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

Tgt Ion: 84 Resp: 1989

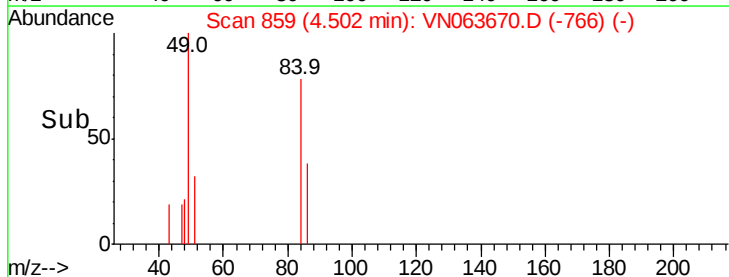
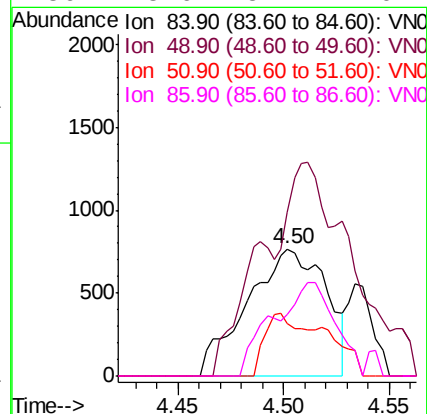
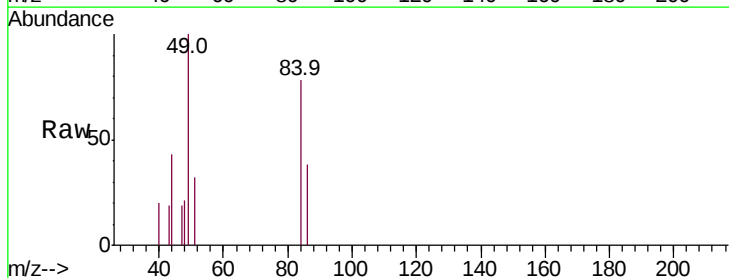
Ion Ratio Lower Upper

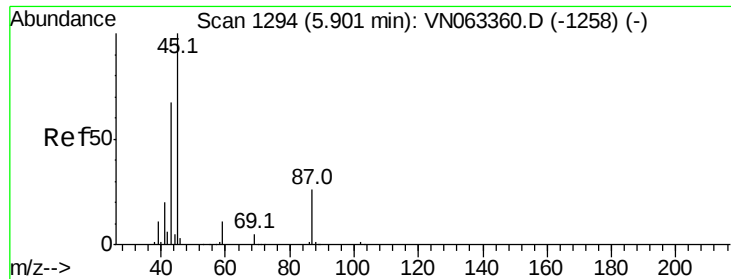
84 100

49 128.9 110.7 166.1

51 41.5 32.9 49.3

86 48.6 51.1 76.7#





#22

Diisopropyl ether

Concen: 5.866 ug/l

RT: 5.98 min Scan# 1319

Delta R.T. 0.08 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

Instrument :

MSVOA_N

ClientSampleId :

SEAL-POT

Tot Ion: 45 Resp: 51448

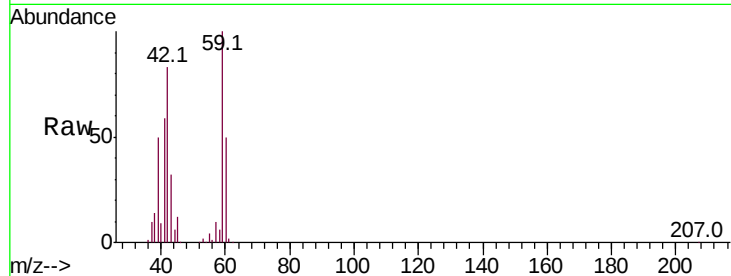
Ion Ratio Lower Upper

45 100

43 263.4 53.5 80.3#

87 0.0 21.2 31.8#

59 837.1 8.8 13.2#

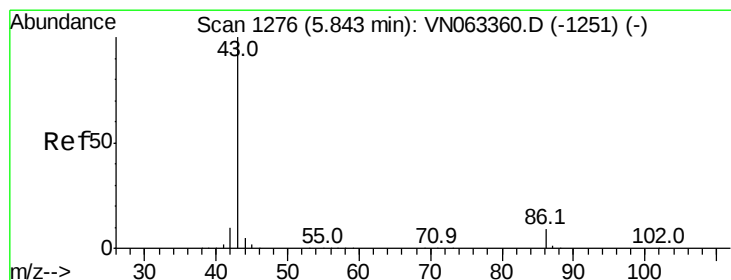
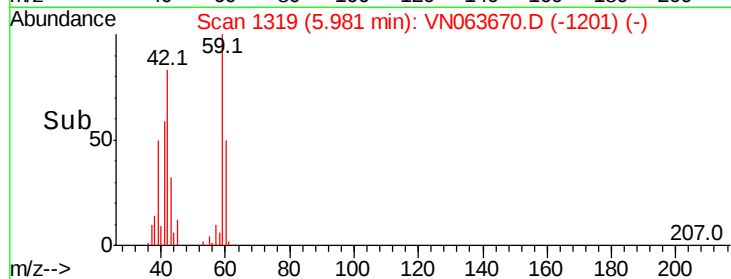
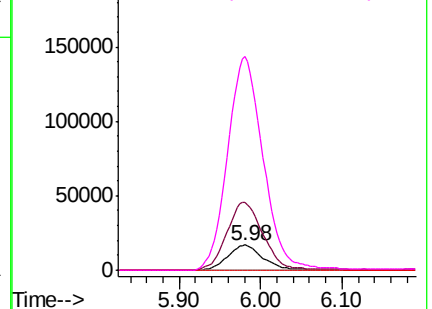


Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0



#23

Vinyl Acetate

Concen: 19.795 ug/l

RT: 5.98 min Scan# 1318

Delta R.T. 0.13 min

Lab File: VN063670.D

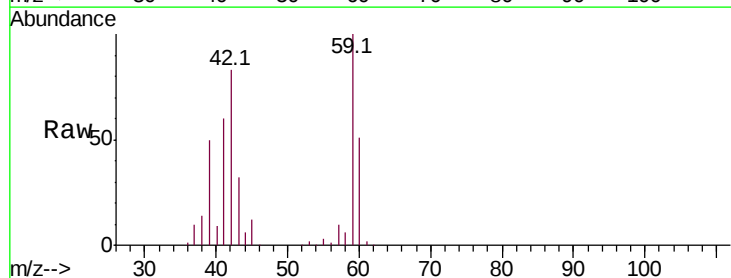
Acq: 25 Sep 2020 9:01

Tgt Ion: 43 Resp: 142583

Ion Ratio Lower Upper

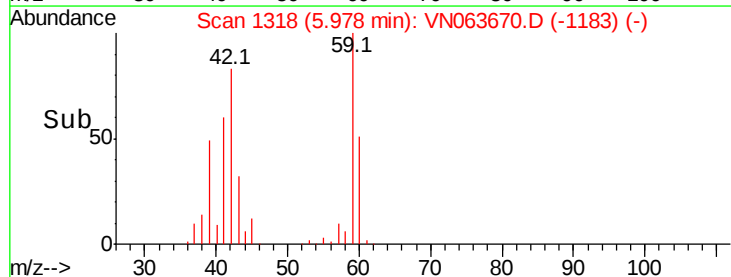
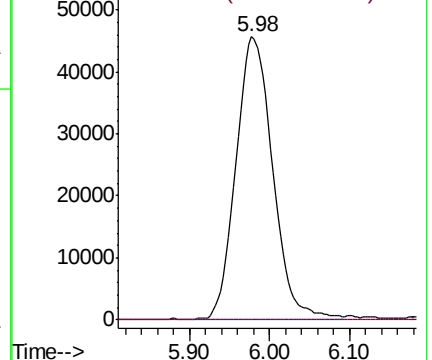
43 100

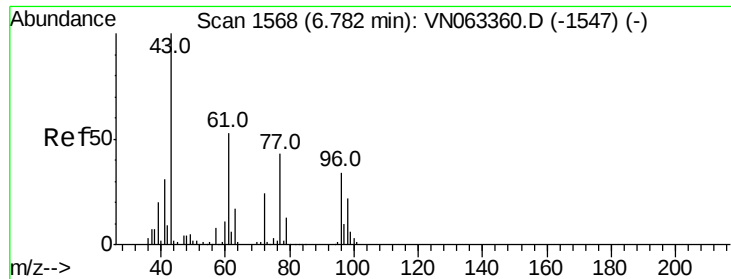
86 0.0 7.1 10.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0





#25

2-Butanone

Concen: 3.036 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

Instrument :

MSVOA_N

ClientSampleId :

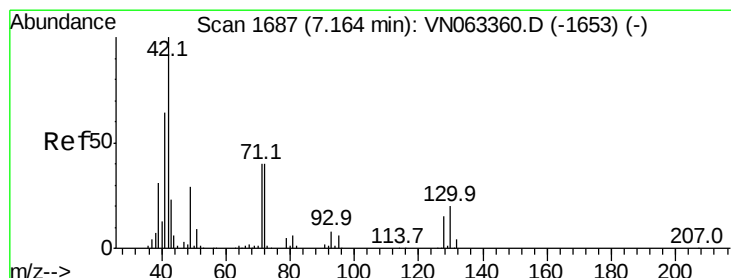
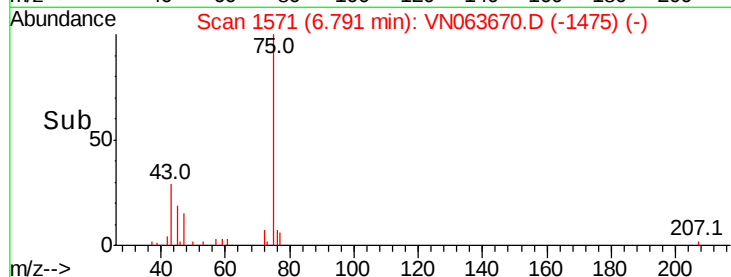
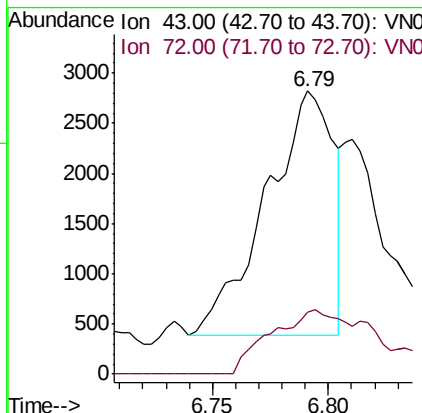
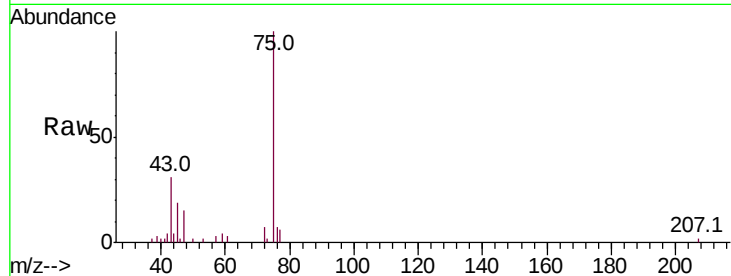
SEAL-POT

Tot Ion: 43 Resp: 4921

Ion Ratio Lower Upper

43 100

72 25.2 19.2 28.8



#29

Tetrahydrofuran

Concen: 0.209 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

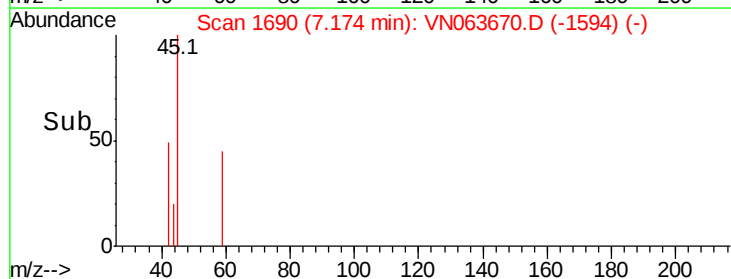
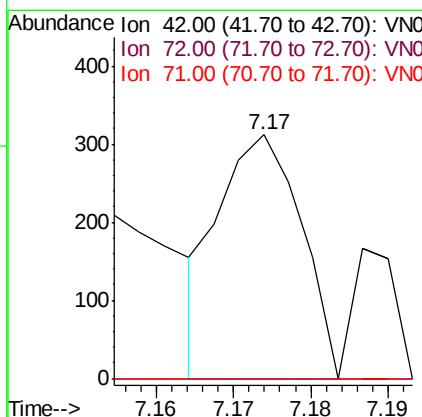
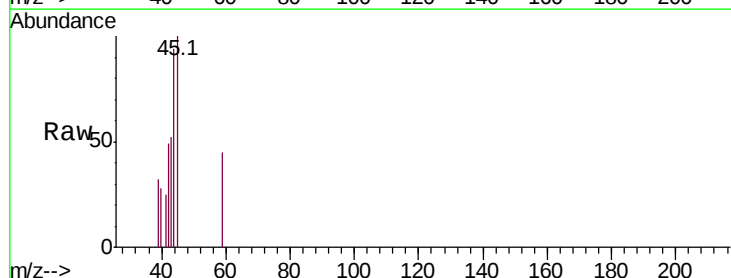
Tgt Ion: 42 Resp: 231

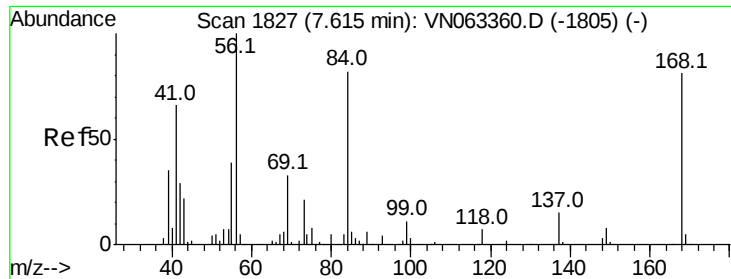
Ion Ratio Lower Upper

42 100

72 0.0 32.1 48.1#

71 0.0 31.2 46.8#

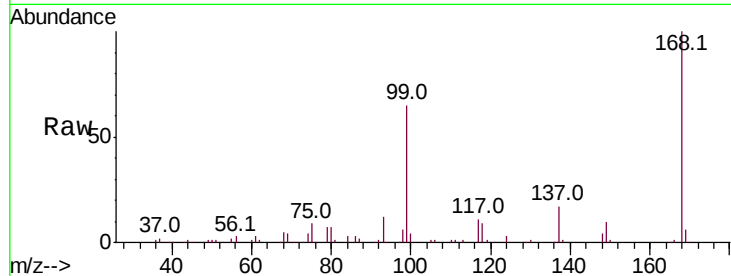




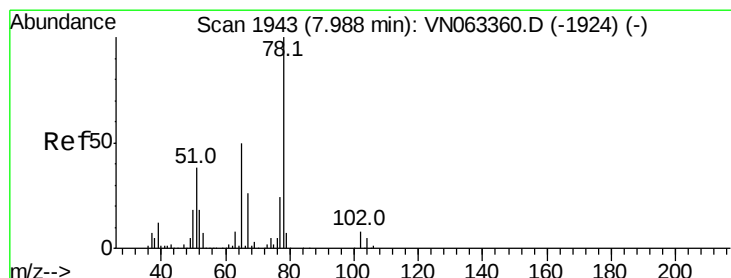
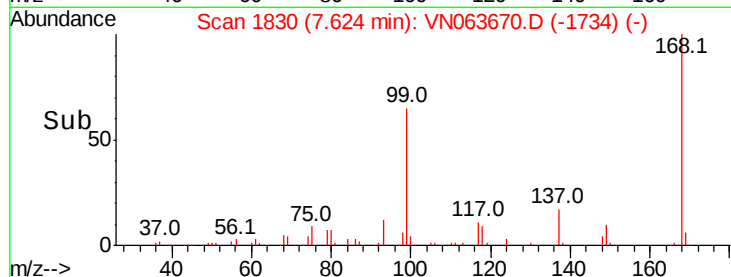
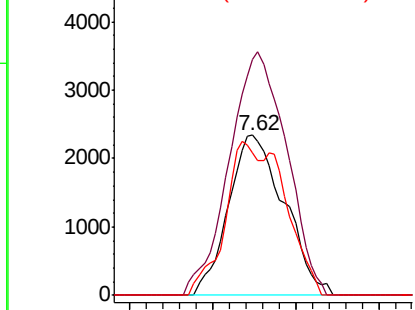
#31
Cyclohexane
Concen: 1.210 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063670.D
Acq: 25 Sep 2020 9:01

Instrument :
MSVOA_N
ClientSampleId :
SEAL-POT

Tot Ion: 56 Resp: 5479
Ion Ratio Lower Upper
56 100
69 147.9 26.1 39.1#
84 89.1 65.4 98.2

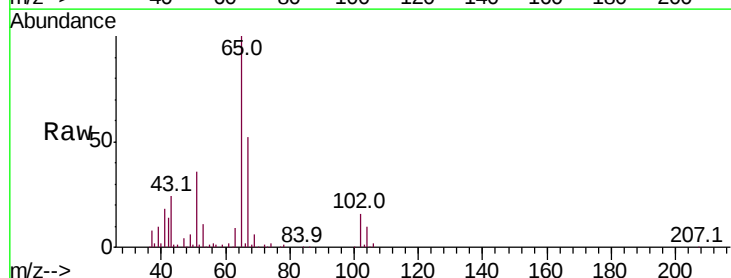


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

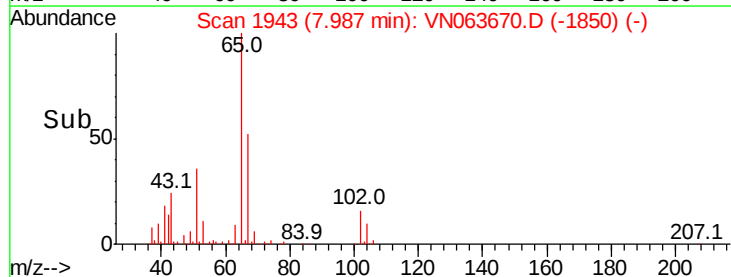
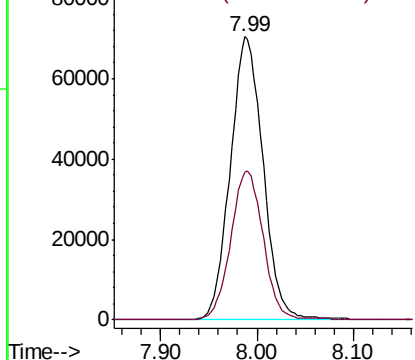


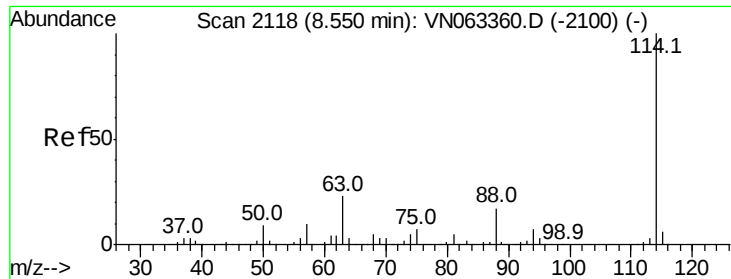
#33
1,2-Dichloroethane-d4
Concen: 50.549 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063670.D
Acq: 25 Sep 2020 9:01

Tgt Ion: 65 Resp: 165780
Ion Ratio Lower Upper
65 100
67 51.9 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

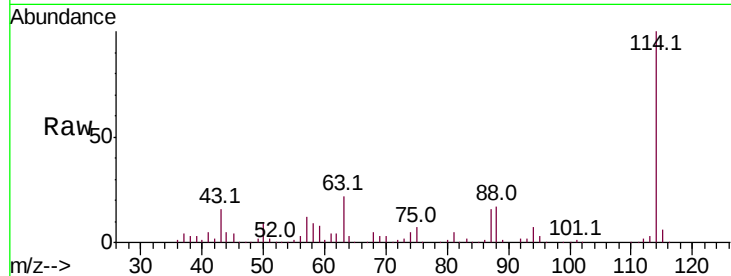




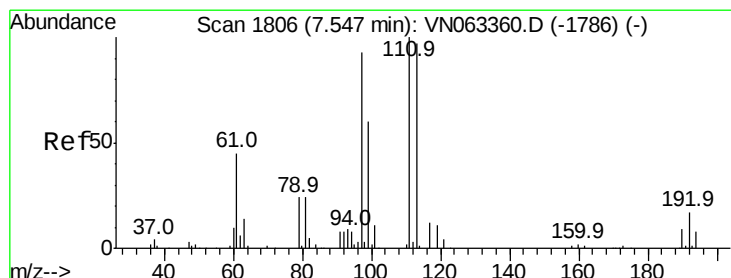
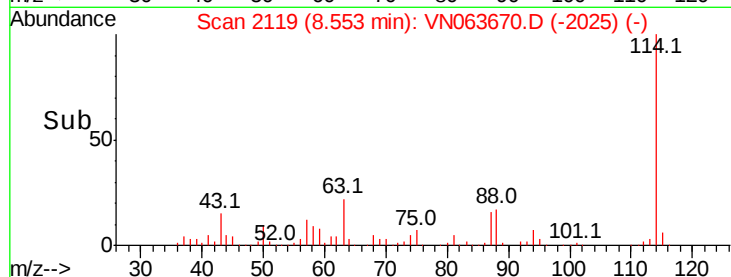
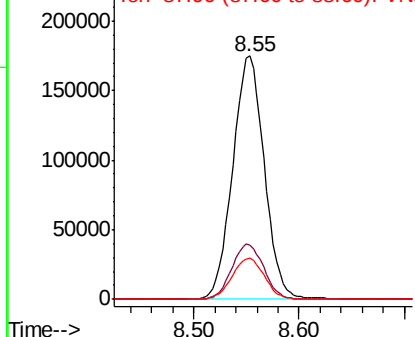
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN063670.D
 Acq: 25 Sep 2020 9:01

Instrument :
 MSVOA_N
 ClientSampleId :
 SEAL-POT

Tot Ion:114 Resp: 363838
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 46.4
 88 16.9 0.0 33.2

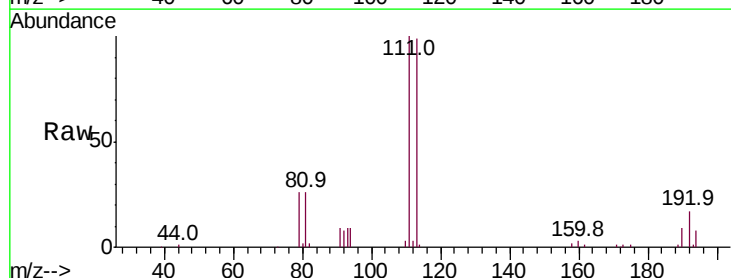


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

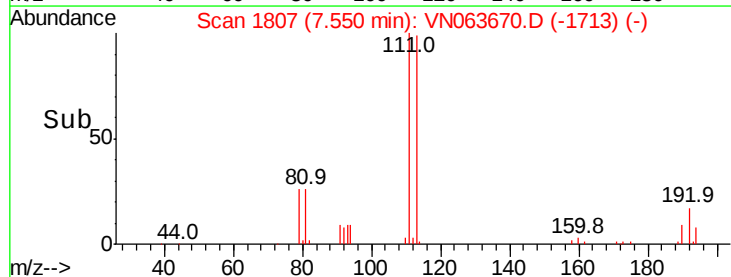
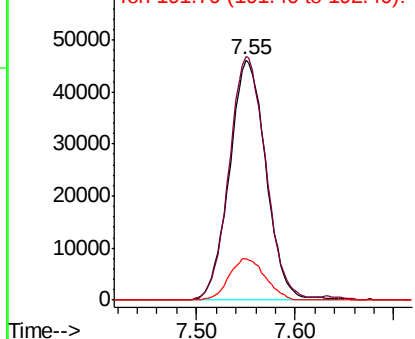


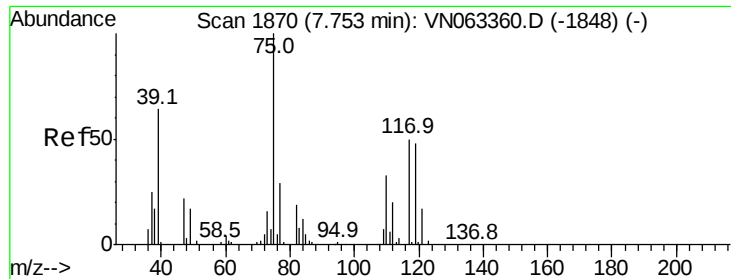
#35
 Dibromofluoromethane
 Concen: 47.174 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063670.D
 Acq: 25 Sep 2020 9:01

Tgt Ion:113 Resp: 118820
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.9 124.3
 192 17.2 13.9 20.9



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: 4.623 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.12 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

Instrument :

MSVOA_N

ClientSampleId :

SEAL-POT

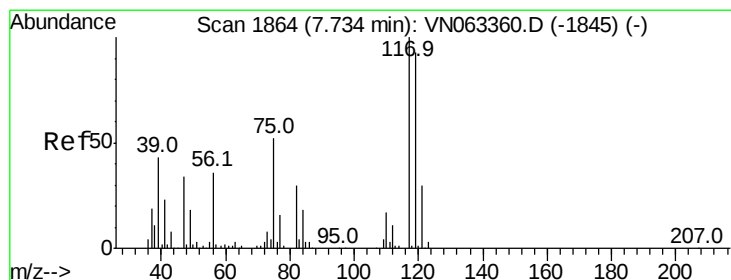
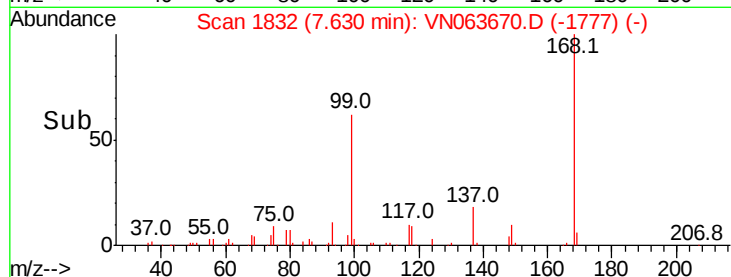
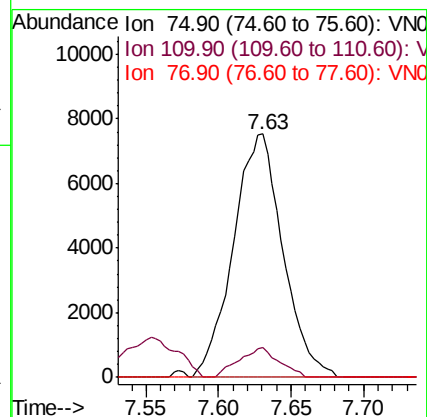
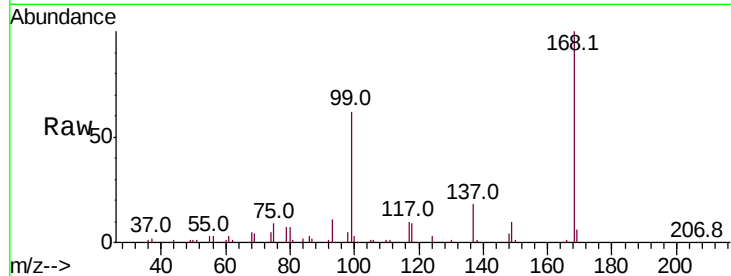
Tot Ion: 75 Resp: 17918

Ion Ratio Lower Upper

75 100

110 9.9 16.5 49.5#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.323 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

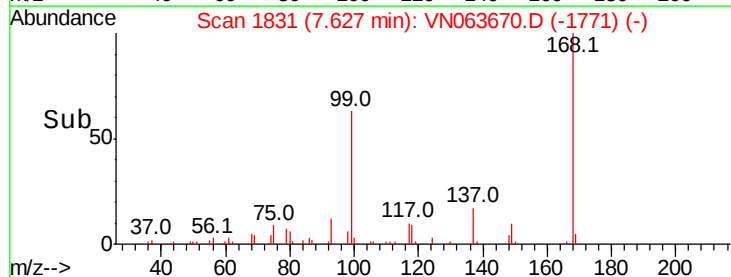
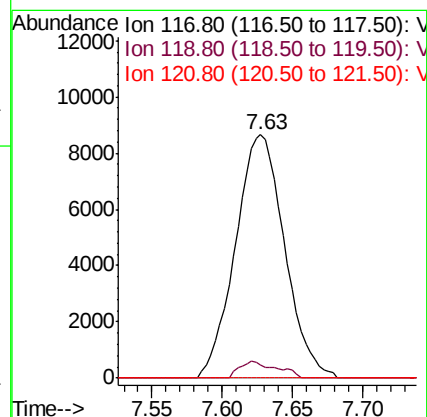
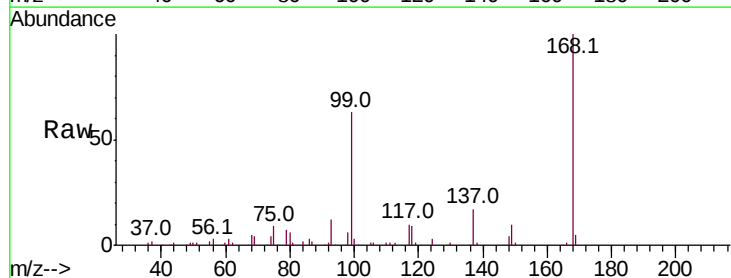
Tgt Ion: 117 Resp: 21061

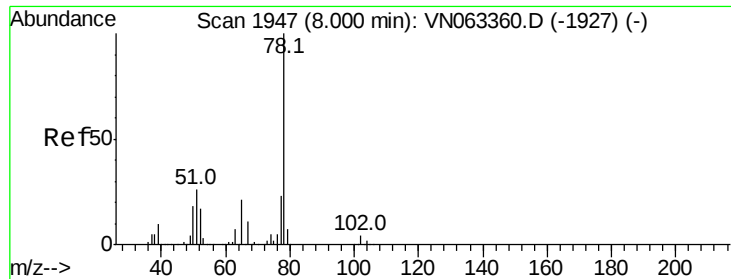
Ion Ratio Lower Upper

117 100

119 5.4 74.5 111.7#

121 0.0 24.1 36.1#





#40

Benzene

Concen: 0.283 ug/l

RT: 8.01 min Scan# 1950

Delta R.T. 0.01 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

Instrument :

MSVOA_N

ClientSampleId :

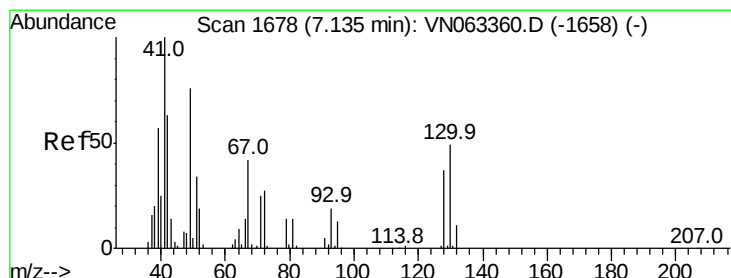
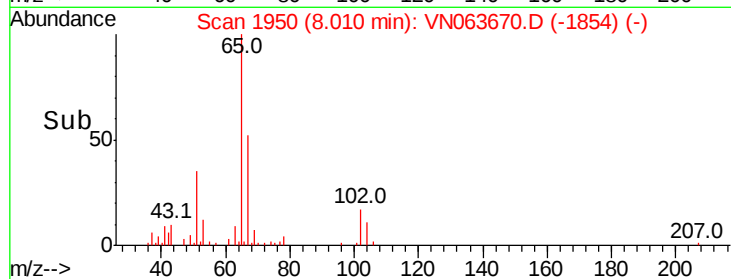
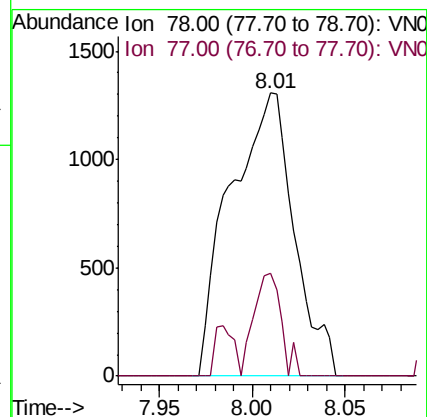
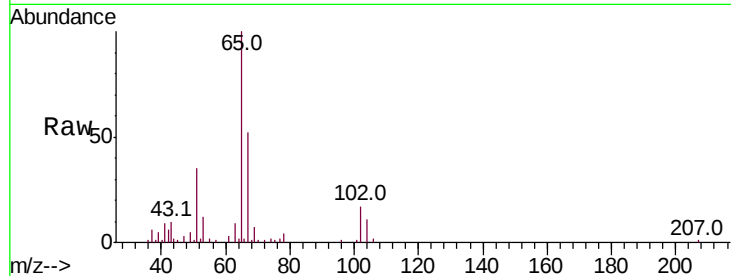
SEAL-POT

Tot Ion: 78 Resp: 3136

Ion Ratio Lower Upper

78 100

77 36.6 18.3 27.5#



#41

Methacrylonitrile

Concen: 0.338 ug/l

RT: 7.15 min Scan# 1683

Delta R.T. 0.02 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

Tgt Ion: 41 Resp: 578

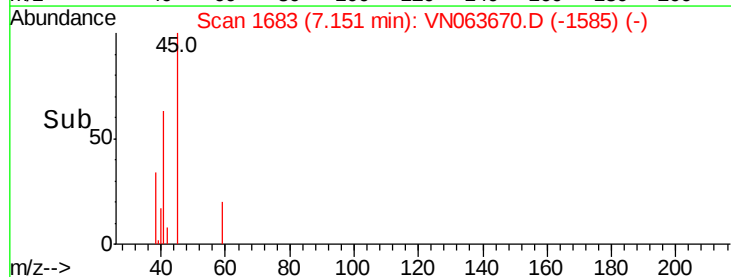
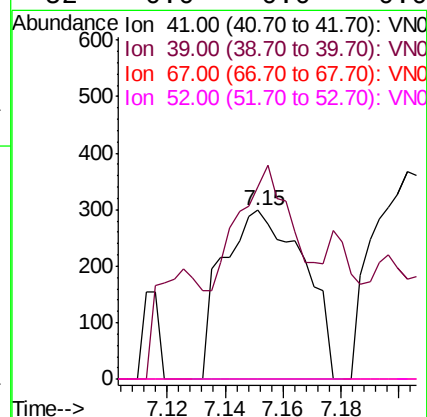
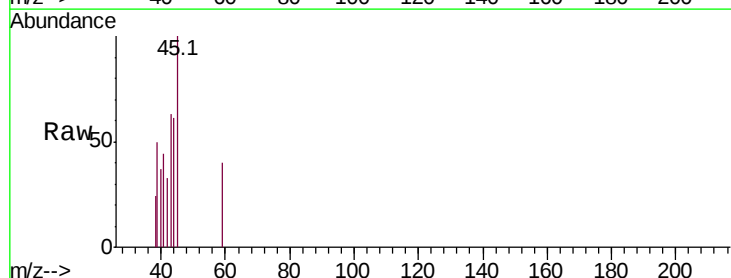
Ion Ratio Lower Upper

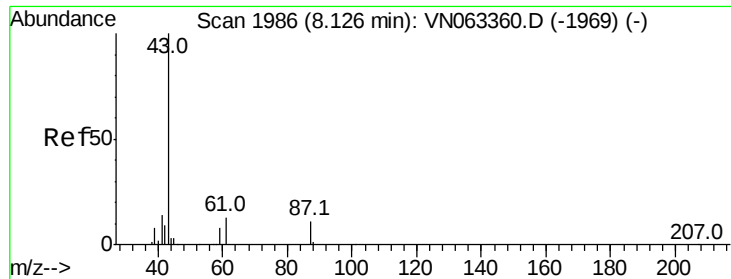
41 100

39 47.4 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0





#43

Isopropyl Acetate

Concen: 10.609 ug/l

RT: 7.97 min Scan# 1938

Delta R.T. -0.15 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

Instrument :

MSVOA_N

ClientSampleId :

SEAL-POT

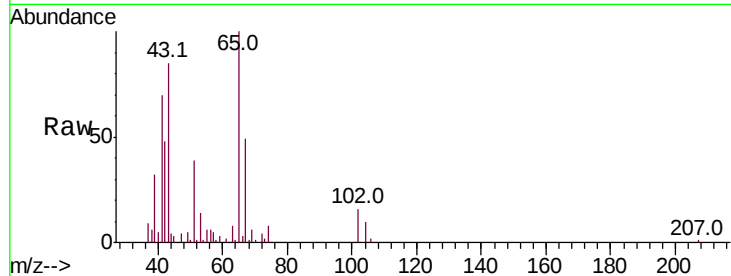
Tot Ion: 43 Resp: 72169

Ion Ratio Lower Upper

43 100

61 5.3 14.2 21.2#

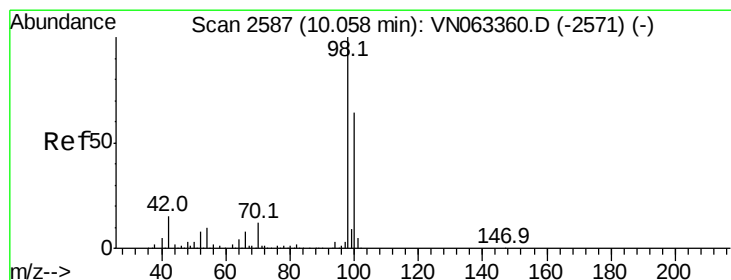
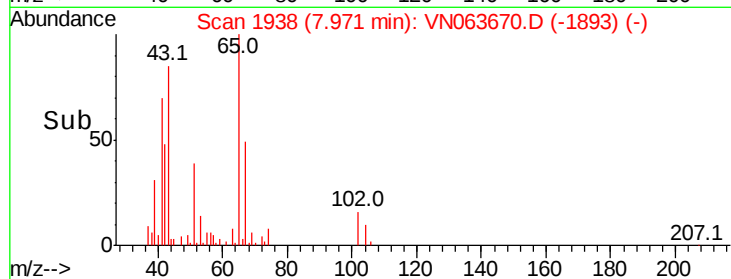
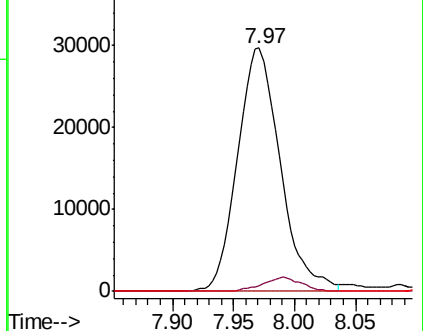
87 0.0 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 48.421 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063670.D

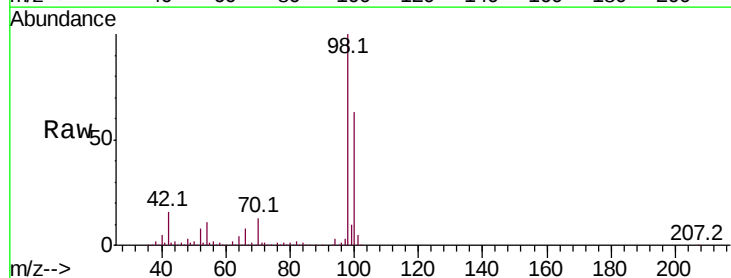
Acq: 25 Sep 2020 9:01

Tgt Ion: 98 Resp: 458595

Ion Ratio Lower Upper

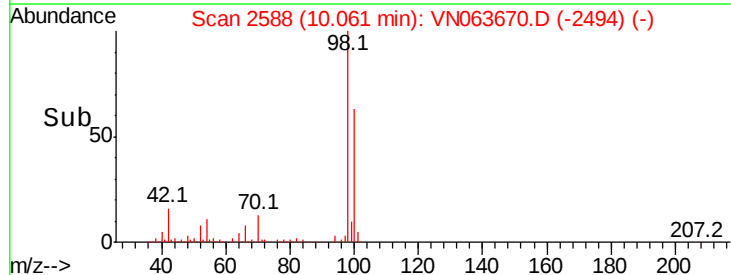
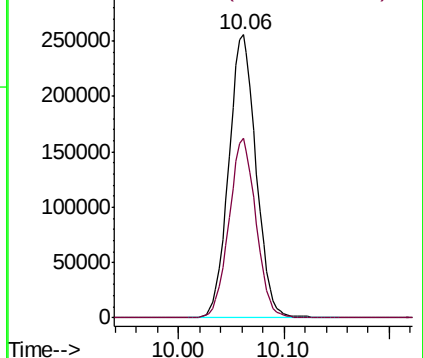
98 100

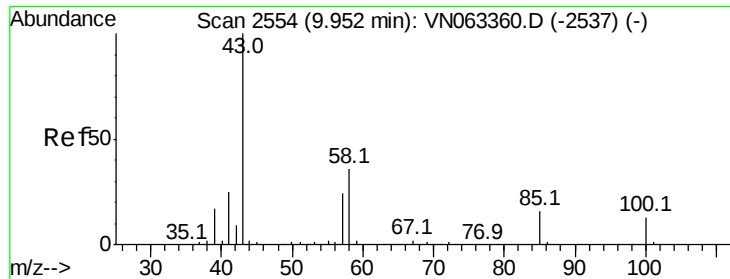
100 62.4 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.743 ug/l

RT: 9.96 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

Instrument :

MSVOA_N

ClientSampleId :

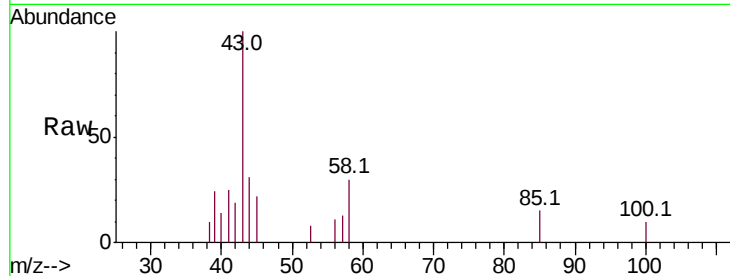
SEAL-POT

Tot Ion: 43 Resp: 2830

Ion Ratio Lower Upper

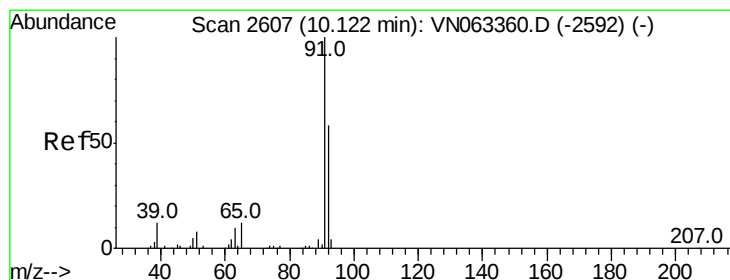
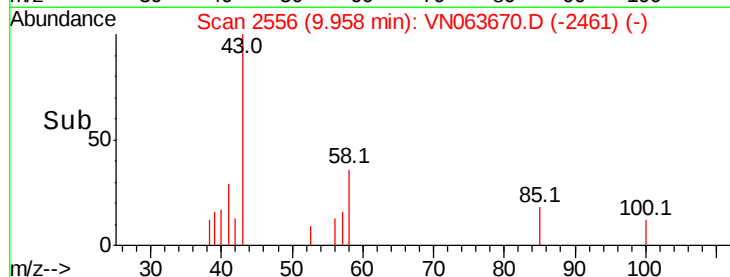
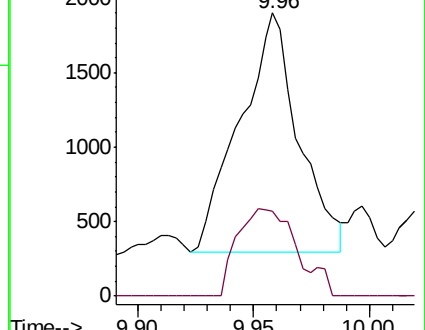
43 100

58 36.9 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2537) (-)



#52

Toluene

Concen: 0.424 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN063670.D

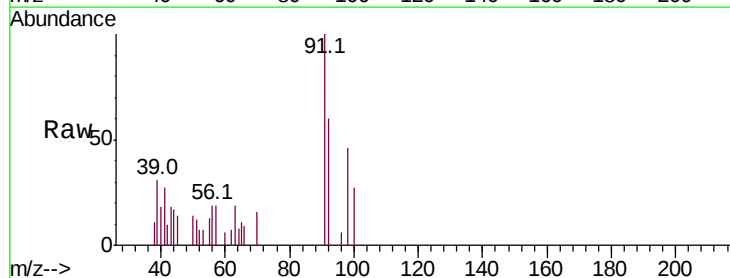
Acq: 25 Sep 2020 9:01

Tgt Ion: 92 Resp: 2821

Ion Ratio Lower Upper

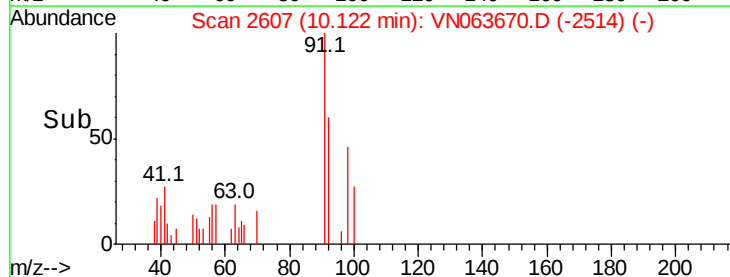
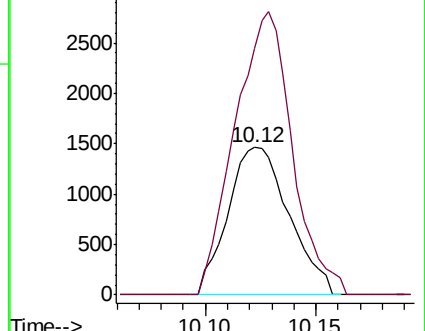
92 100

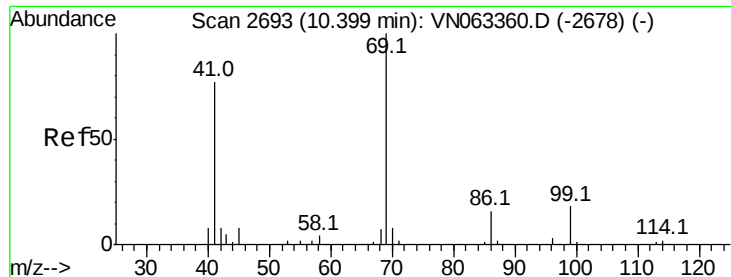
91 180.5 139.7 209.5



Abundance Ion 92.00 (91.70 to 92.70): VN063360.D (-2592) (-)

Ion 91.00 (90.70 to 91.70): VN063360.D (-2592) (-)





#56

Ethyl methacrylate

Concen: 1.240 ug/l

RT: 10.32 min Scan# 2670

Delta R.T. -0.07 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

Instrument :

MSVOA_N

ClientSampleId :

SEAL-POT

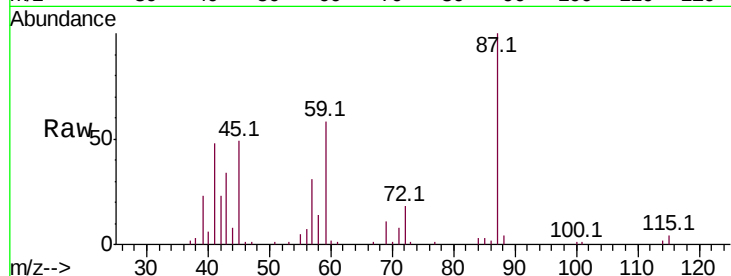
Tot Ion: 69 Resp: 5116

Ion Ratio Lower Upper

69 100

41 482.0 61.0 91.6#

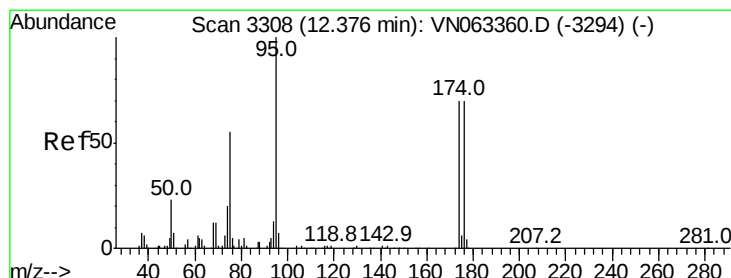
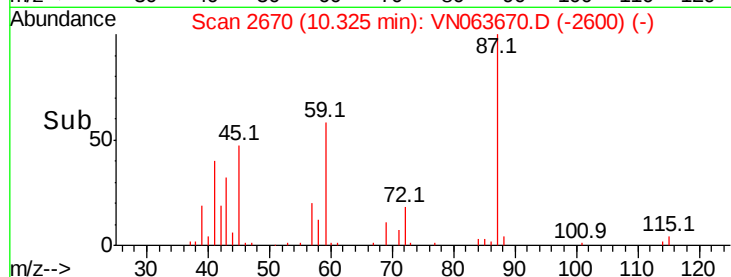
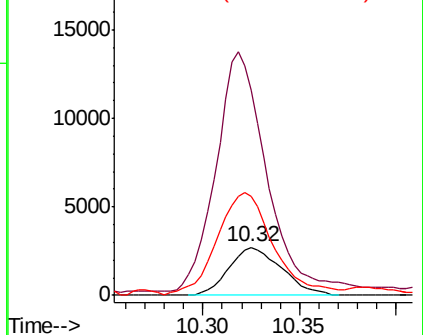
39 229.7 39.2 58.8#



Abundance Ion 69.00 (68.70 to 69.70): VN063670.D (-2678) (-)

Ion 41.00 (40.70 to 41.70): VN063670.D (-2678) (-)

Ion 39.00 (38.70 to 39.70): VN063670.D (-2678) (-)



#62

4-Bromofluorobenzene

Concen: 53.896 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

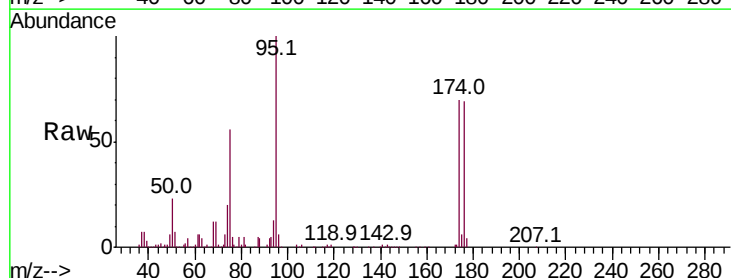
Tgt Ion: 95 Resp: 187121

Ion Ratio Lower Upper

95 100

174 71.7 0.0 140.8

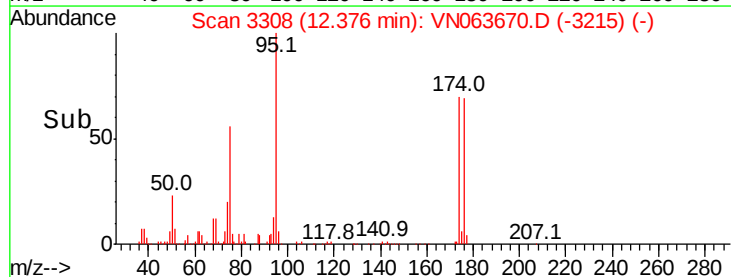
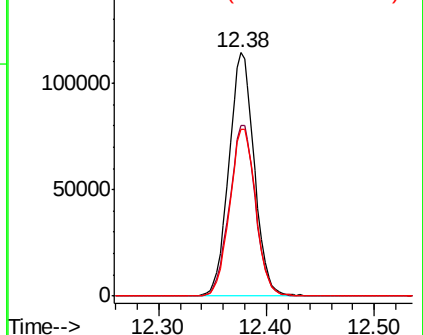
176 70.5 0.0 137.6

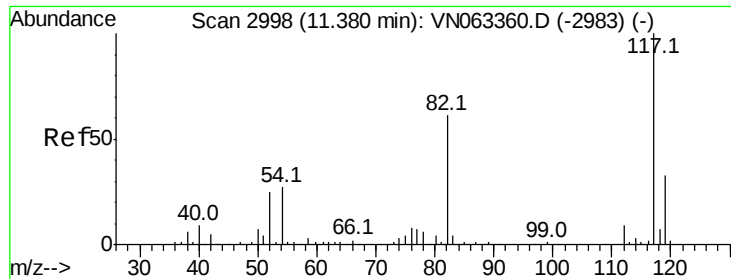


Abundance Ion 94.90 (94.60 to 95.60): VN063670.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063670.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063670.D (-3215) (-)

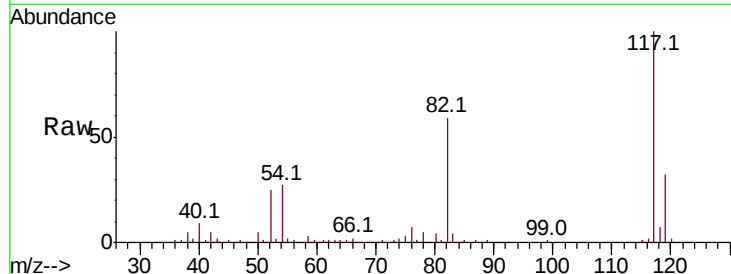




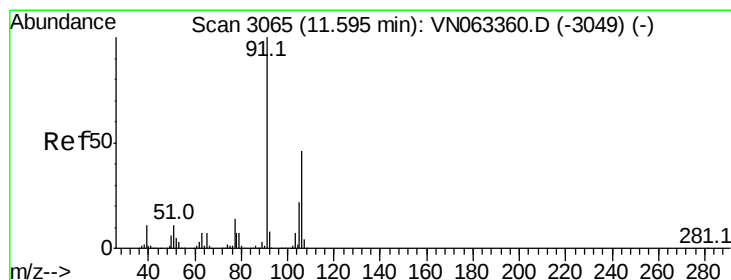
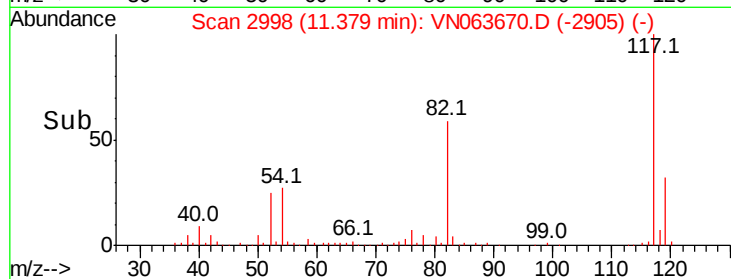
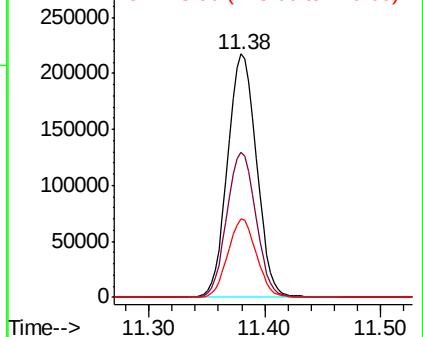
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063670.D
Acq: 25 Sep 2020 9:01

Instrument :
MSVOA_N
ClientSampleId :
SEAL-POT

Tot Ion:117 Resp: 375261
Ion Ratio Lower Upper
117 100
82 59.4 49.2 73.8
119 32.0 26.2 39.4

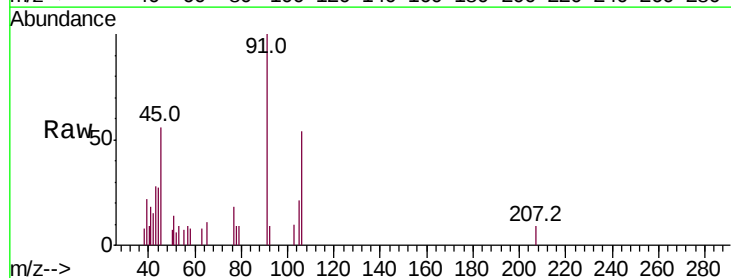


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

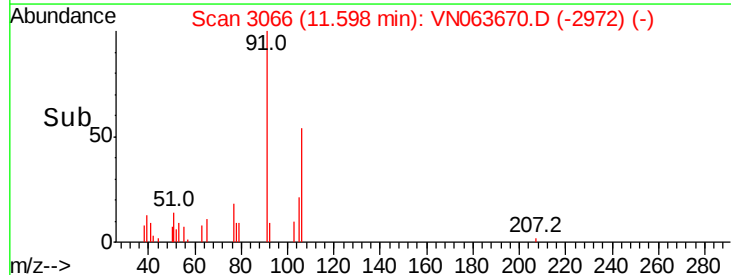
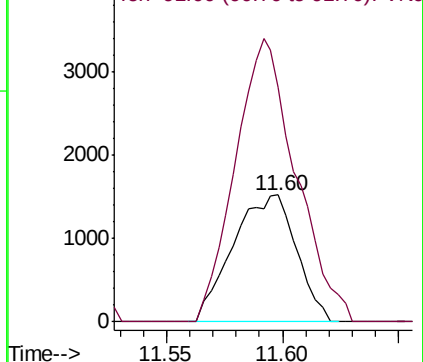


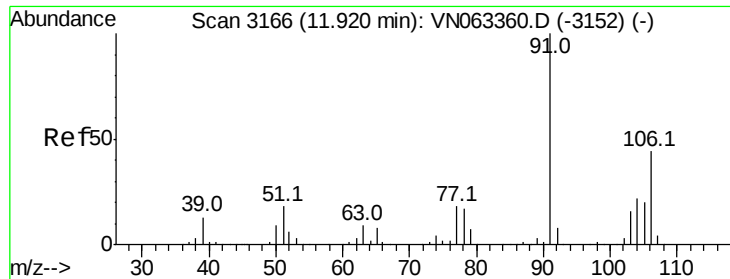
#68
m/p-Xylenes
Concen: 0.536 ug/l
RT: 11.60 min Scan# 3066
Delta R.T. 0.00 min
Lab File: VN063670.D
Acq: 25 Sep 2020 9:01

Tgt Ion:106 Resp: 2900
Ion Ratio Lower Upper
106 100
91 213.3 171.2 256.8



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

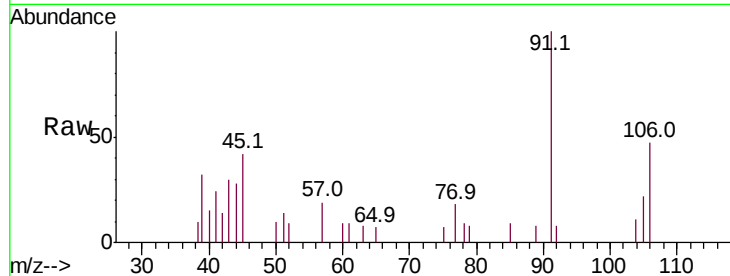




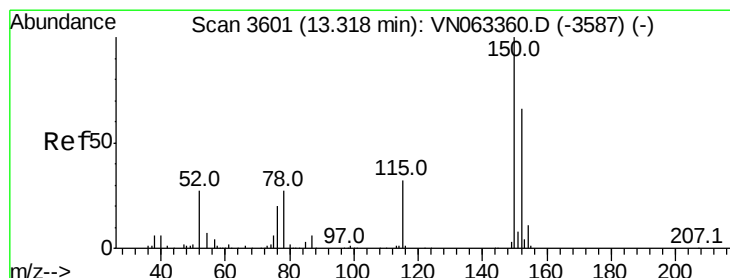
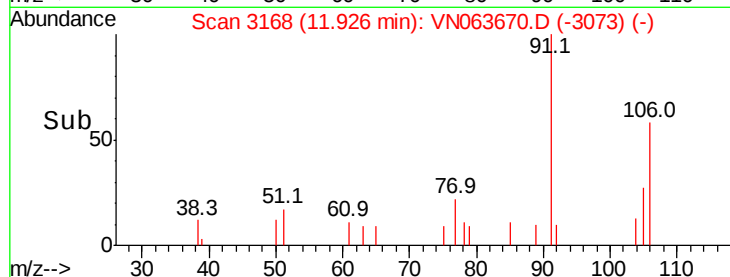
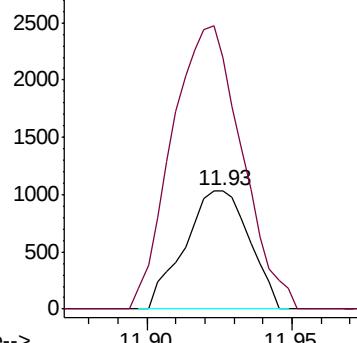
#69
o-Xylene
Concen: 0.310 ug/l
RT: 11.93 min Scan# 3168
Delta R.T. 0.01 min
Lab File: VN063670.D
Acq: 25 Sep 2020 9:01

Instrument :
MSVOA_N
ClientSampleId :
SEAL-POT

Tot Ion:106 Resp: 1597
Ion Ratio Lower Upper
106 100
91 259.0 113.6 340.8

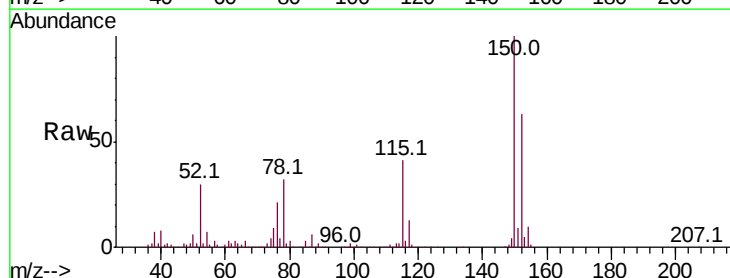


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

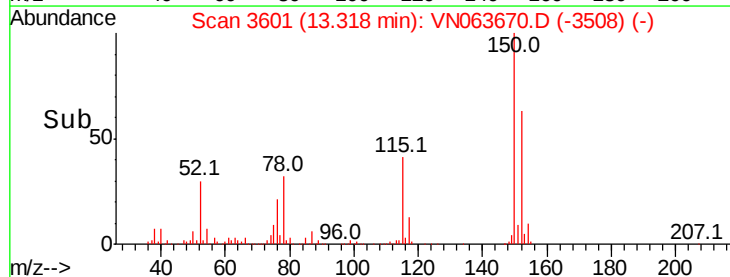
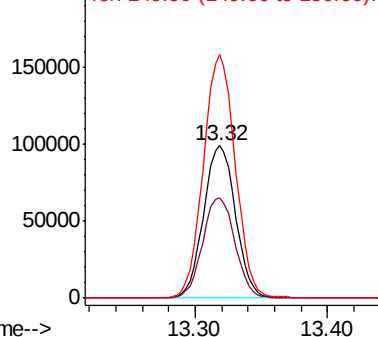


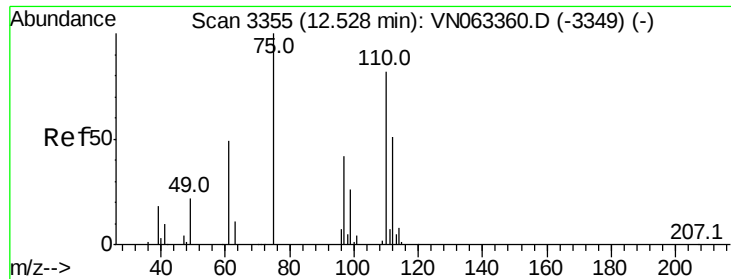
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063670.D
Acq: 25 Sep 2020 9:01

Tgt Ion:152 Resp: 166563
Ion Ratio Lower Upper
152 100
115 66.5 32.2 96.6
150 158.9 0.0 343.4



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

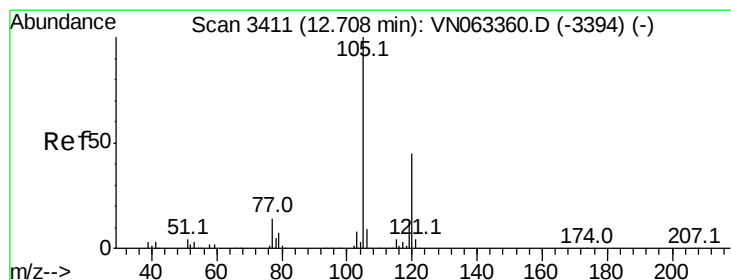
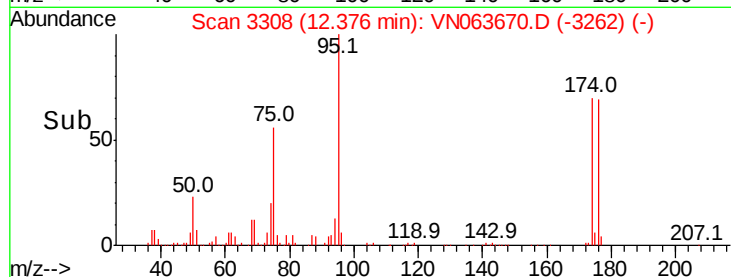
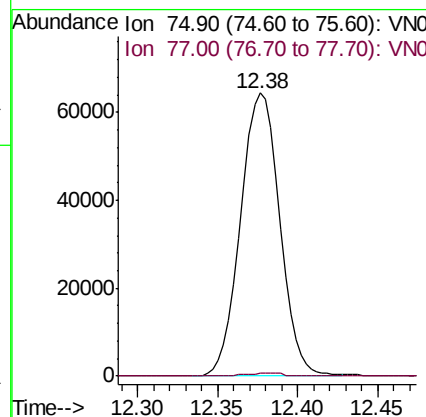
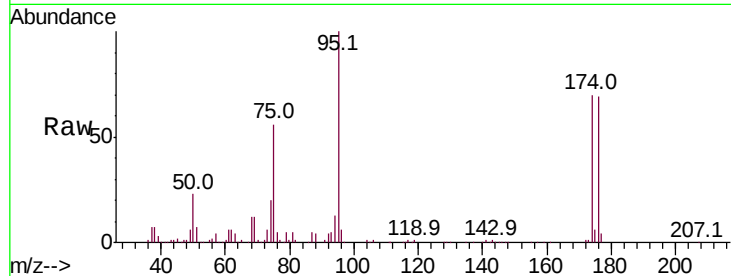




#76
 1,2,3-Trichloropropane
 Concen: 26.109 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063670.D
 Acq: 25 Sep 2020 9:01

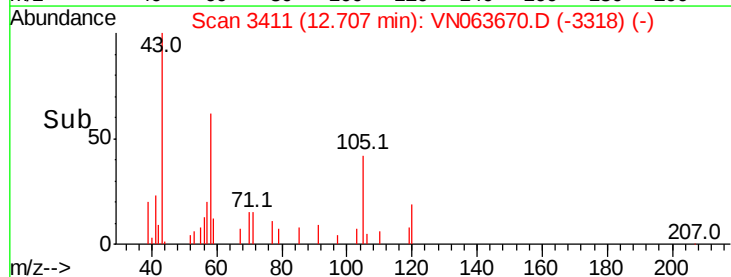
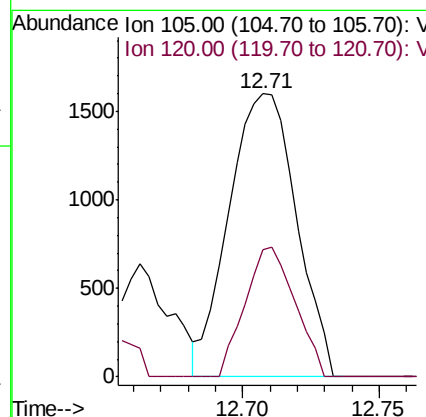
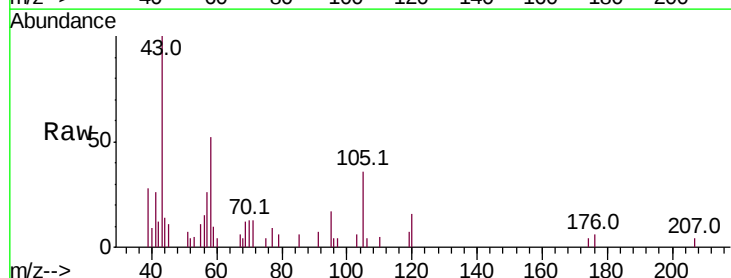
Instrument :
 MSVOA_N
 ClientSampled :
 SEAL-POT

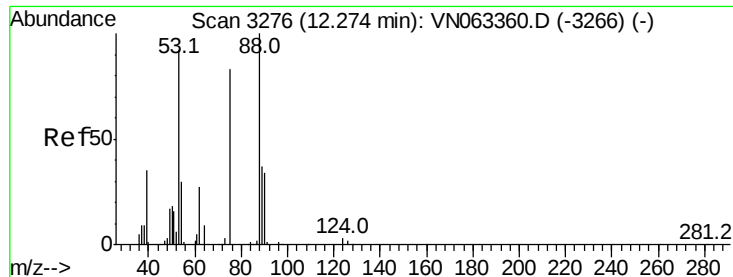
Tot Ion: 75 Resp: 107640
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.246 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. -0.00 min
 Lab File: VN063670.D
 Acq: 25 Sep 2020 9:01

Tgt Ion: 105 Resp: 2741
 Ion Ratio Lower Upper
 105 100
 120 33.9 22.9 68.8





#81

trans-1,4-Dichloro-2-butene

Concen: 71.582 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

Instrument :

MSVOA_N

ClientSampleId :

SEAL-POT

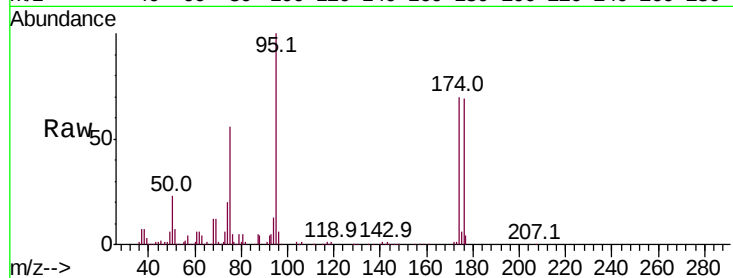
Tot Ion: 75 Resp: 107640

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

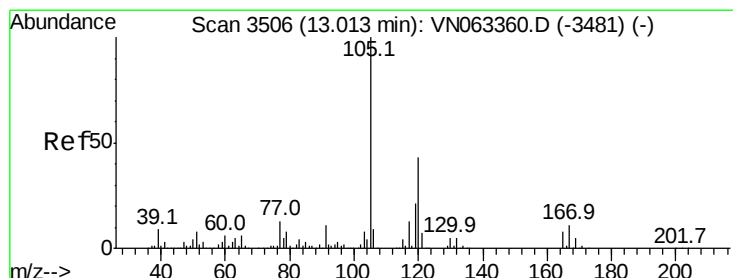
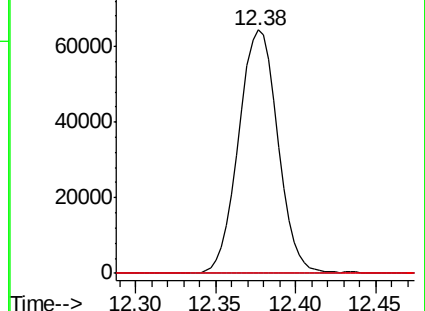
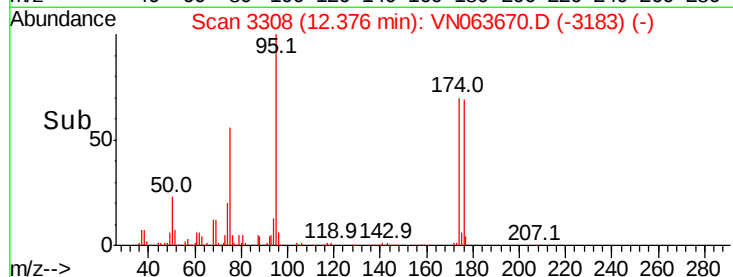
89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-3266) (-)

Ion 53.00 (52.70 to 53.70): VN063360.D (-3266) (-)

Ion 88.90 (88.60 to 89.60): VN063360.D (-3266) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.433 ug/l

RT: 13.02 min Scan# 3507

Delta R.T. 0.00 min

Lab File: VN063670.D

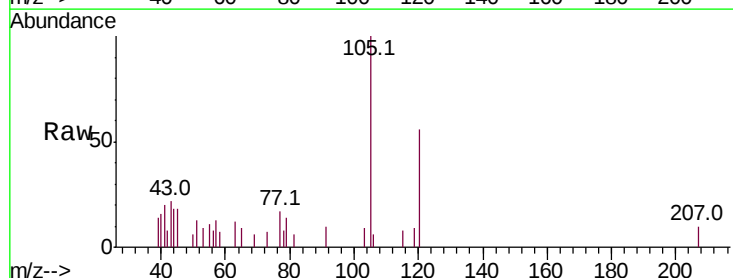
Acq: 25 Sep 2020 9:01

Tgt Ion: 105 Resp: 4869

Ion Ratio Lower Upper

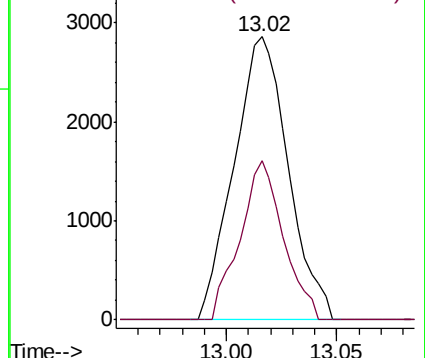
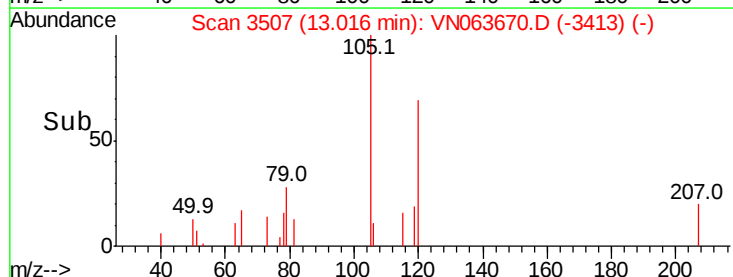
105 100

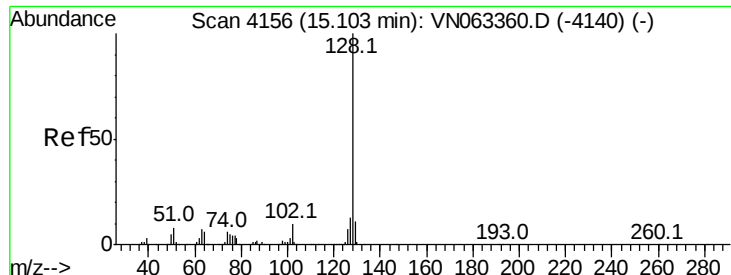
120 45.0 21.3 63.9



Abundance Ion 105.00 (104.70 to 105.70): VN063360.D (-3481) (-)

Ion 120.00 (119.70 to 120.70): VN063360.D (-3481) (-)





#95

Naphthalene

Concen: 10.031 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. -0.00 min

Lab File: VN063670.D

Acq: 25 Sep 2020 9:01

Instrument :

MSVOA_N

ClientSampleId :

SEAL-POT

Tot Ion:128 Resp: 106739

Ion Ratio Lower Upper

128 100

127 14.1 10.6 15.8

129 10.8 8.8 13.2

