

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091720\
 Data File : VN063426.D
 Acq On : 17 Sep 2020 18:01
 Operator : JC/MD
 Sample : L4015-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-5W-(C-0)

Quant Time: Sep 18 02:51:29 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	237247	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	441295	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	446253	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	195991	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	192680	47.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.42%	
35) Dibromofluoromethane	7.55	113	141989	46.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.96%	
50) Toluene-d8	10.06	98	571647	49.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.52%	
62) 4-Bromofluorobenzene	12.38	95	228627	54.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.58%	

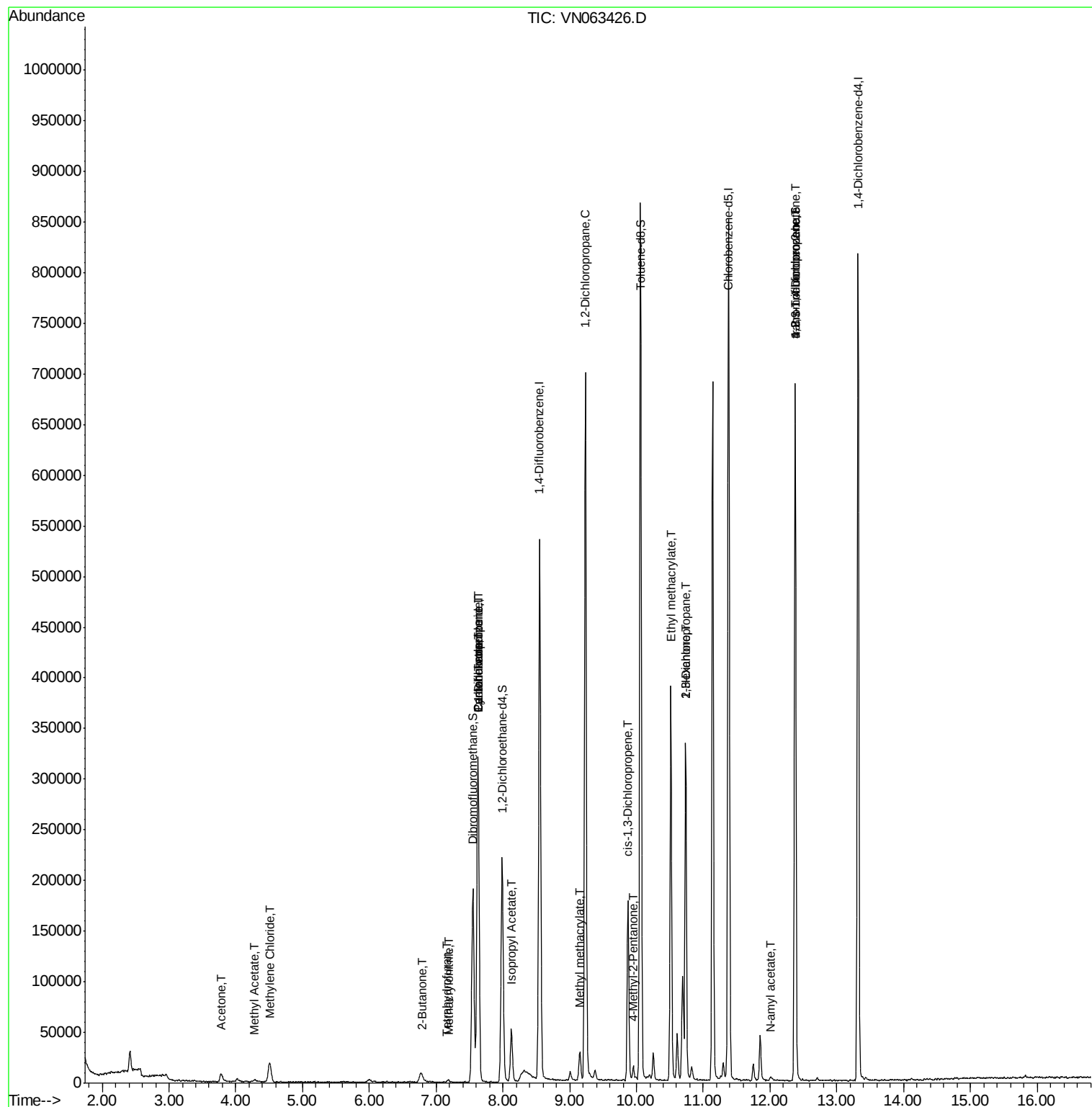
Target Compounds					Qvalue	
16) Acetone	3.78	43	15631	12.043	ug/l	92
18) Methyl Acetate	4.28	43	5331	1.618	ug/l #	83
20) Methylene Chloride	4.51	84	13665	4.155	ug/l	93
25) 2-Butanone	6.80	43	3549	1.778	ug/l #	84
29) Tetrahydrofuran	7.16	42	518	0.380	ug/l #	83
31) Cyclohexane	7.62	56	6866	1.231	ug/l #	20
36) 1,1-Dichloropropene	7.63	75	21457	4.564	ug/l #	51
38) Carbon Tetrachloride	7.63	117	26838	5.592	ug/l #	15
41) Methacrylonitrile	7.17	41	857	0.413	ug/l #	100
43) Isopropyl Acetate	8.13	43	63049	7.642	ug/l	100
45) 1,2-Dichloropropane	9.24	63	842	0.230	ug/l #	43
48) Methyl methacrylate	9.15	41	4476	1.104	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	8174	1.770	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	30233	5.144	ug/l #	62
56) Ethyl methacrylate	10.51	69	1200	0.240	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3008	0.520	ug/l #	42
59) 2-Hexanone	10.74	43	52865	15.798	ug/l #	55
74) N-amyl acetate	12.01	43	1947	0.262	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	129198	26.633	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	129198	73.018	ug/l #	7

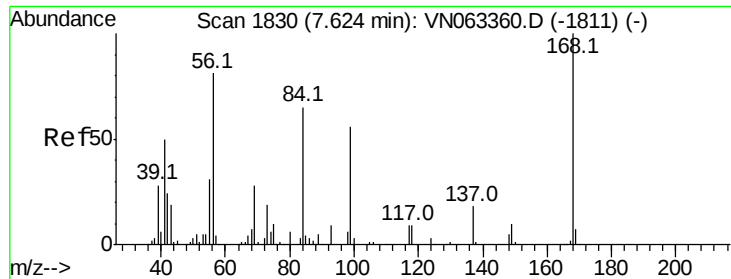
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063426.D

Acq: 17 Sep 2020 18:01

Instrument :

MSVOA_N

ClientSampleId :

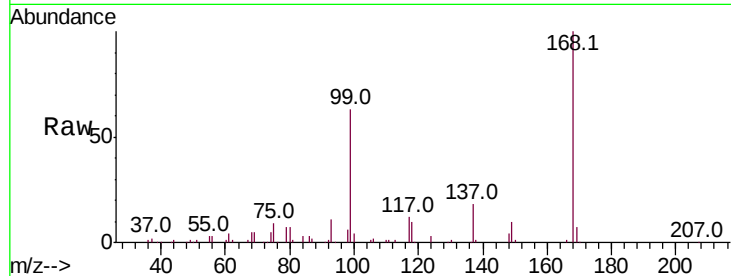
REACTOR-5W-(C-0)

Tot Ion:168 Resp: 237247

Ion Ratio Lower Upper

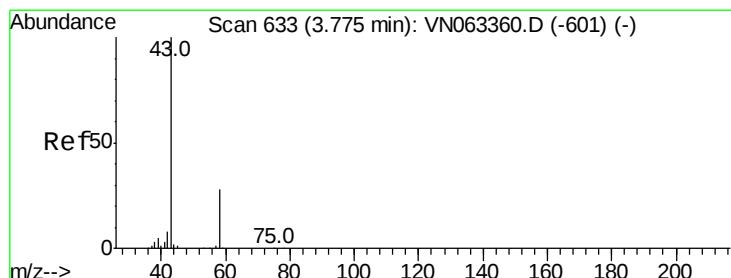
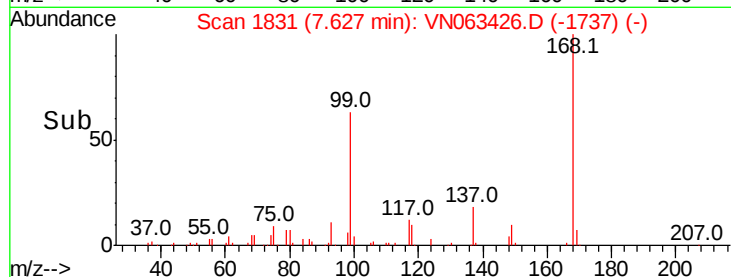
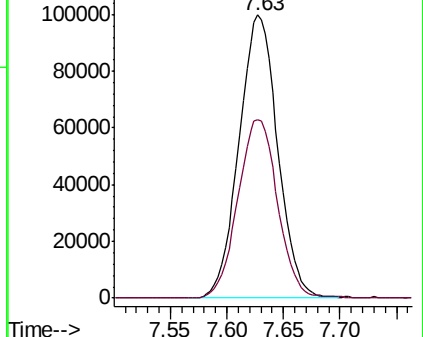
168 100

99 63.2 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 12.043 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063426.D

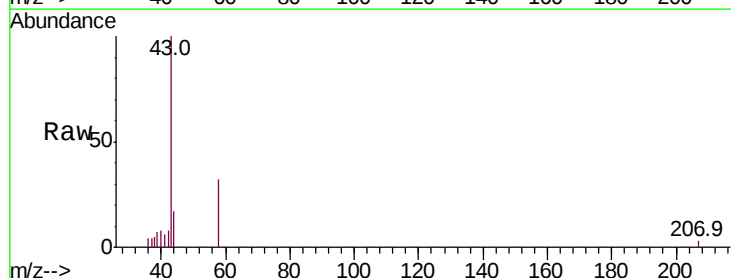
Acq: 17 Sep 2020 18:01

Tgt Ion: 43 Resp: 15631

Ion Ratio Lower Upper

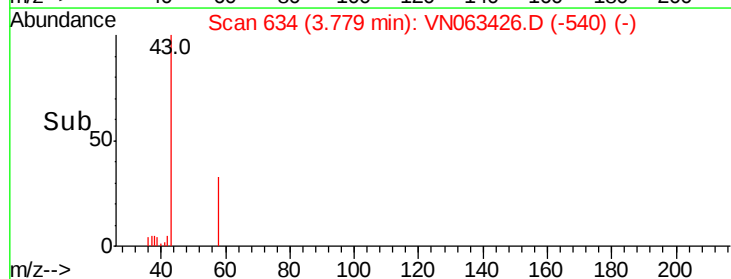
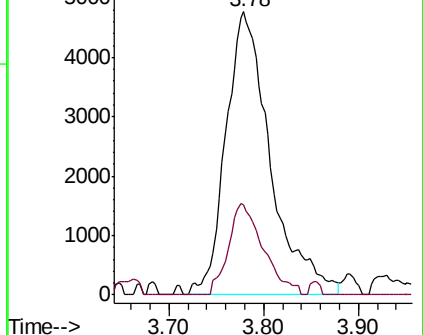
43 100

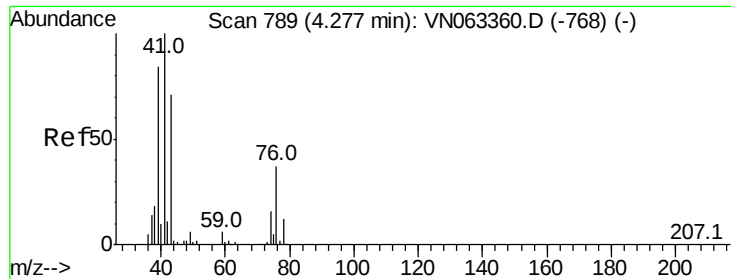
58 31.9 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

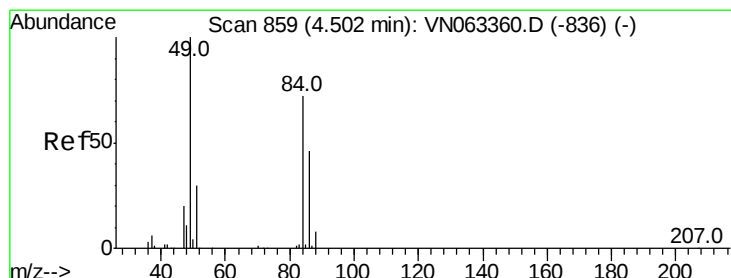
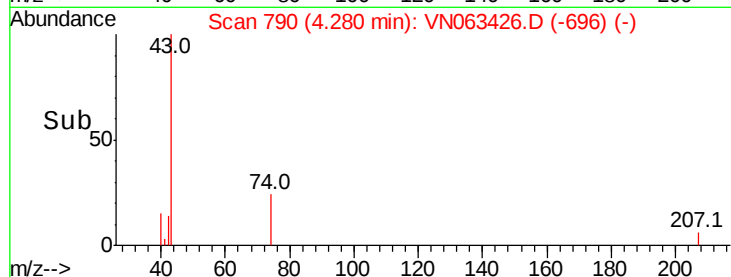
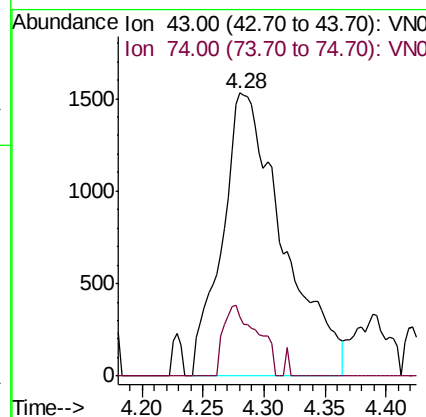
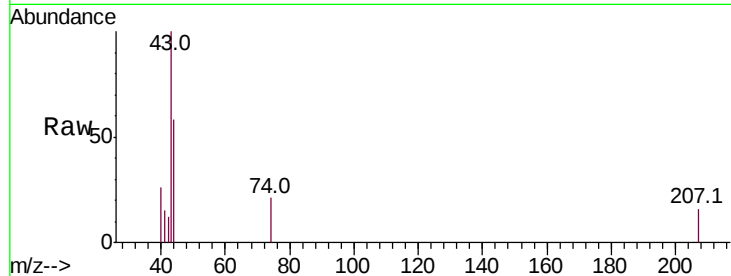




#18
Methvl Acetate
Concen: 1.618 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN063426.D
Acq: 17 Sep 2020 18:01

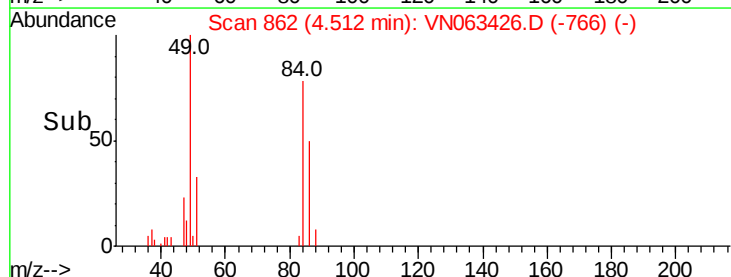
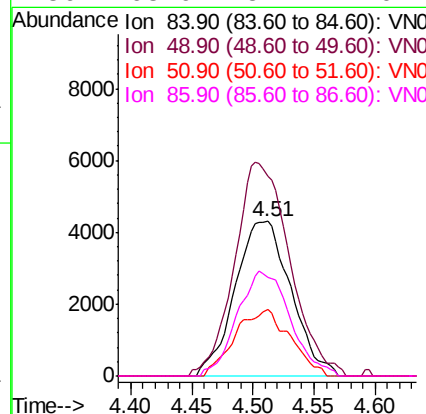
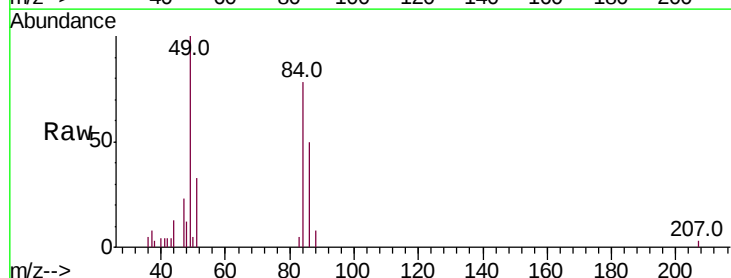
Instrument :
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REACTOR-5W-(C-0)

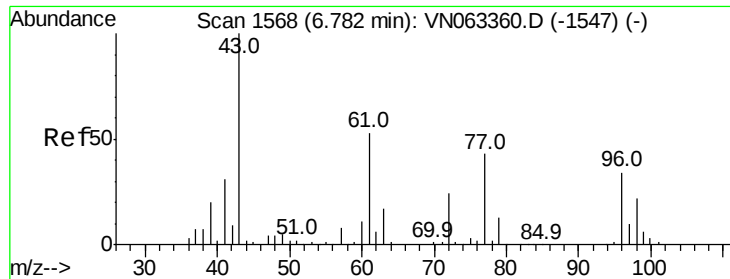
Tot Ion: 43 Resp: 5331
Ion Ratio Lower Upper
43 100
74 13.8 17.4 26.2#



#20
Methylene Chloride
Concen: 4.155 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN063426.D
Acq: 17 Sep 2020 18:01

Tgt Ion: 84 Resp: 13665
Ion Ratio Lower Upper
84 100
49 124.9 110.7 166.1
51 42.9 32.9 49.3
86 63.9 51.1 76.7





#25

2-Butanone

Concen: 1.778 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. 0.02 min

Lab File: VN063426.D

Acq: 17 Sep 2020 18:01

Instrument :

MSVOA_N

ClientSampleId :

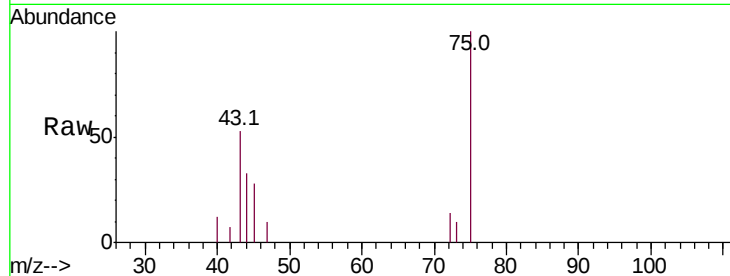
REACTOR-5W-(C-0)

Tot Ion: 43 Resp: 3549

Ion Ratio Lower Upper

43 100

72 31.7 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

1500

1000

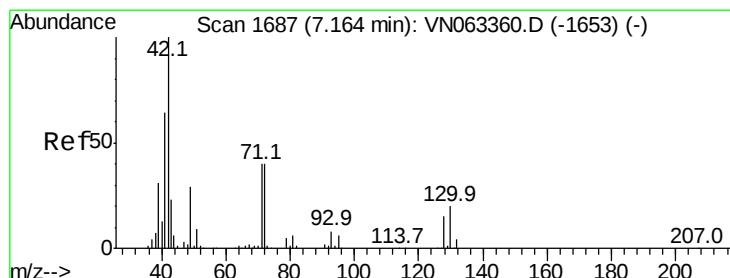
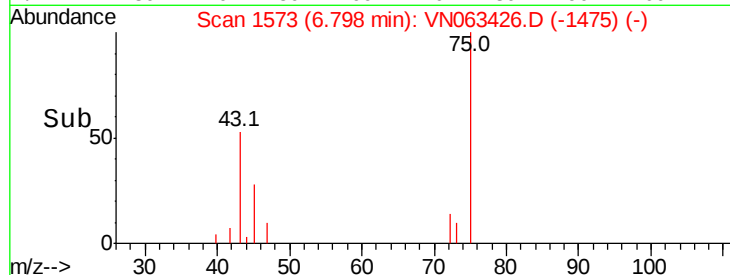
500

0

6.75 6.80 6.85

6.80

Time-->



#29

Tetrahydrofuran

Concen: 0.380 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN063426.D

Acq: 17 Sep 2020 18:01

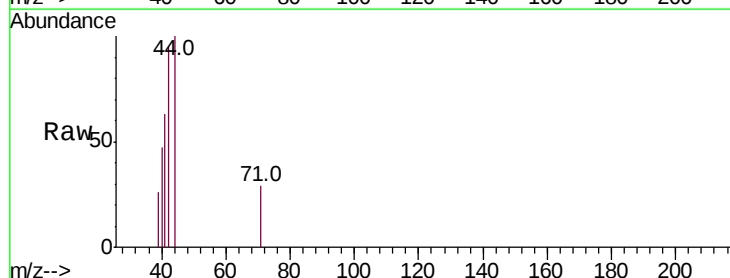
Tgt Ion: 42 Resp: 518

Ion Ratio Lower Upper

42 100

72 35.5 32.1 48.1

71 22.0 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO

800

600

400

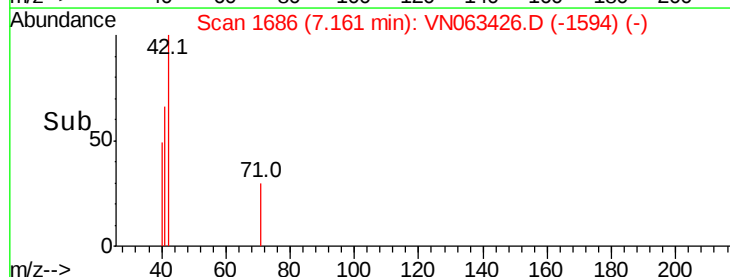
200

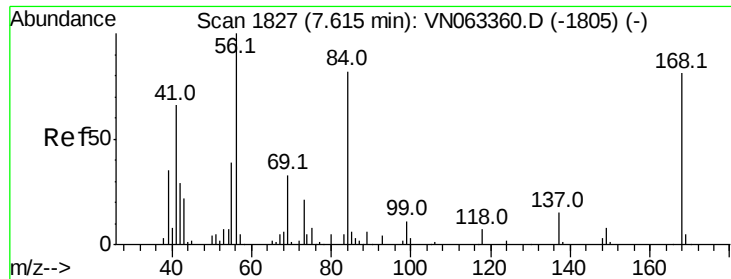
0

7.14 7.16

7.16

Time-->

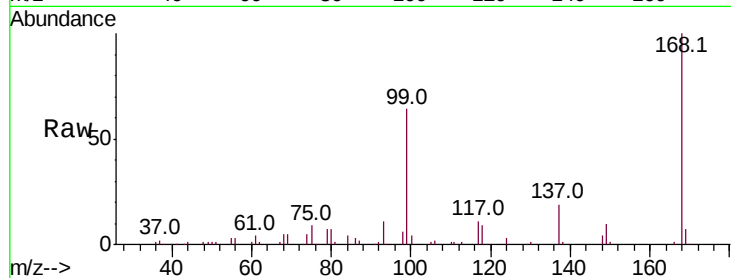




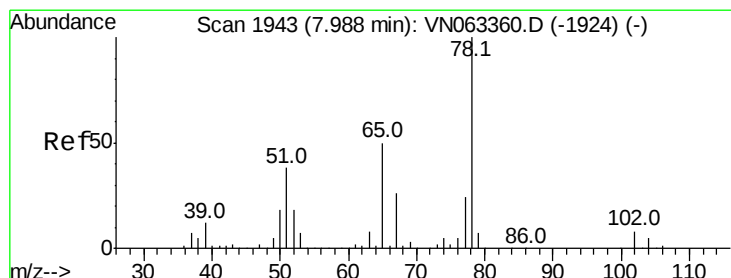
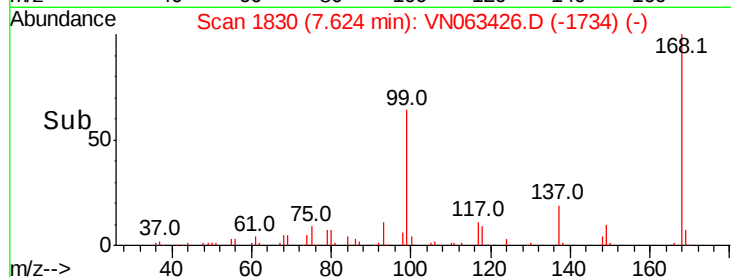
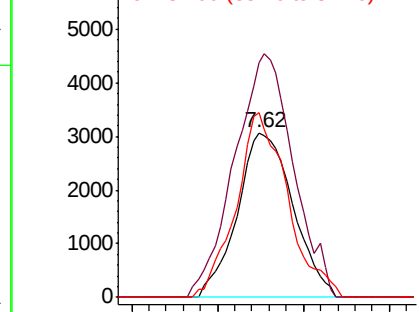
#31
Cyclohexane
Concen: 1.231 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063426.D
Acq: 17 Sep 2020 18:01

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(C-0)

Tot Ion: 56 Resp: 6866
Ion Ratio Lower Upper
56 100
69 142.8 26.1 39.1#
84 112.0 65.4 98.2#

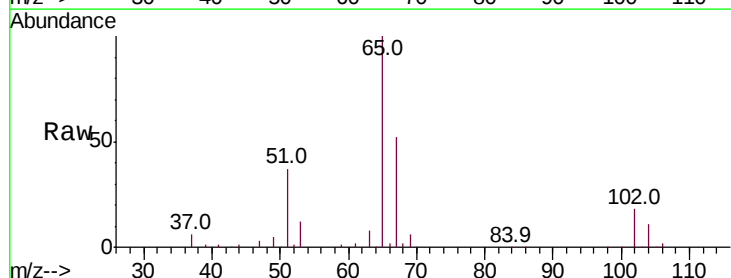


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

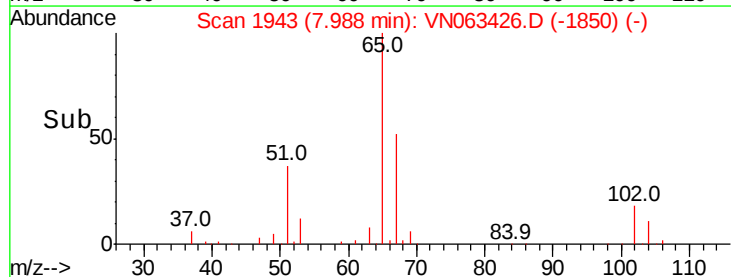
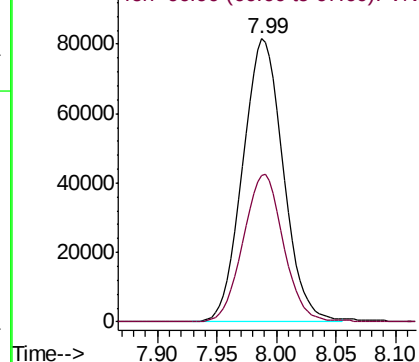


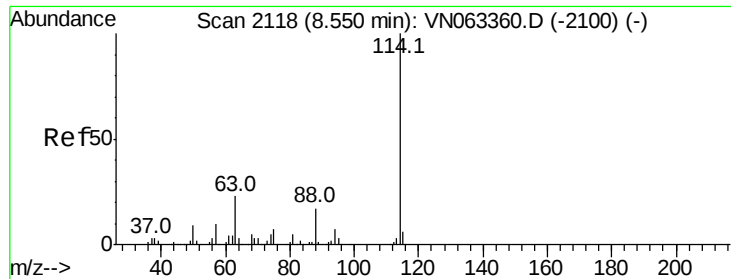
#33
1,2-Dichloroethane-d4
Concen: 47.710 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063426.D
Acq: 17 Sep 2020 18:01

Tgt Ion: 65 Resp: 192680
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

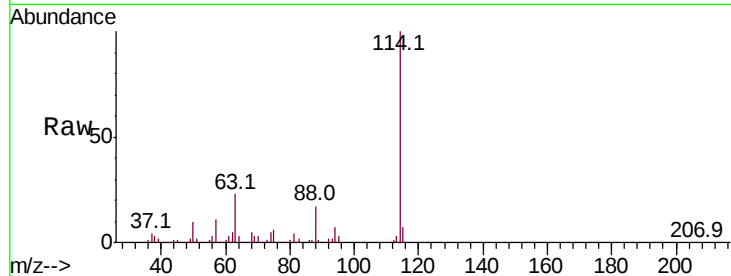




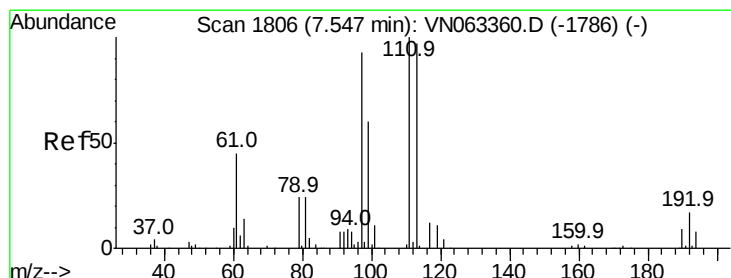
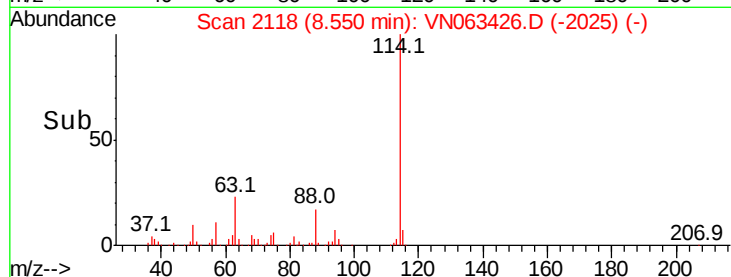
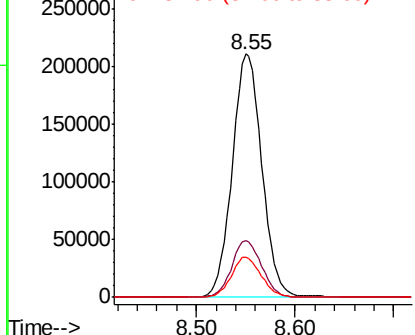
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063426.D
 Acq: 17 Sep 2020 18:01

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-5W-(C-0)

Tot Ion:114 Resp: 441295
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 46.4
 88 16.6 0.0 33.2

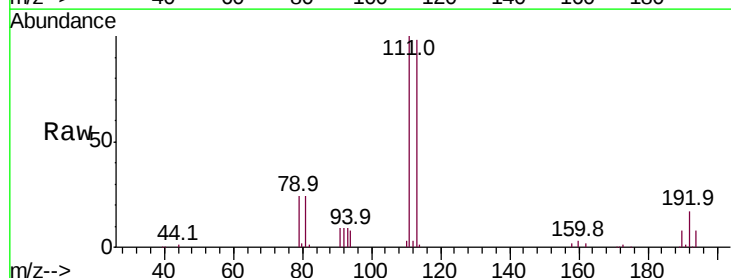


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

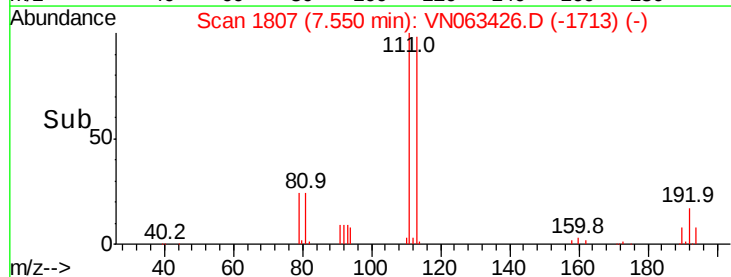
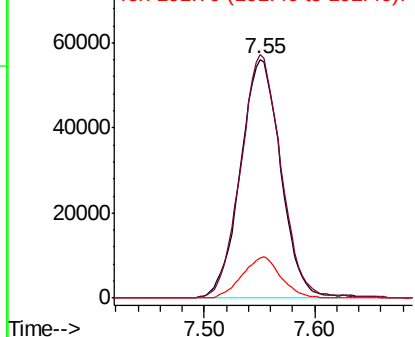


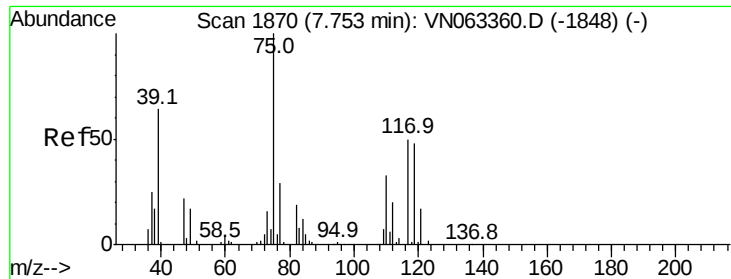
#35
 Dibromofluoromethane
 Concen: 46.478 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063426.D
 Acq: 17 Sep 2020 18:01

Tgt Ion:113 Resp: 141989
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.9 124.3
 192 16.6 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

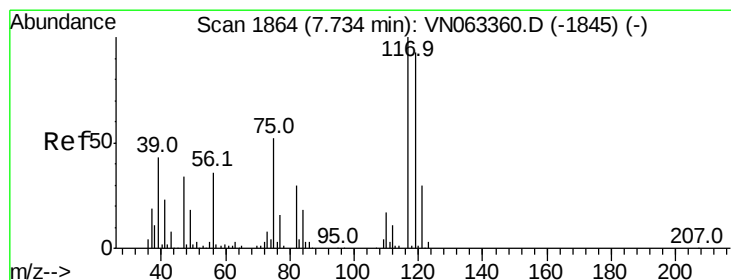
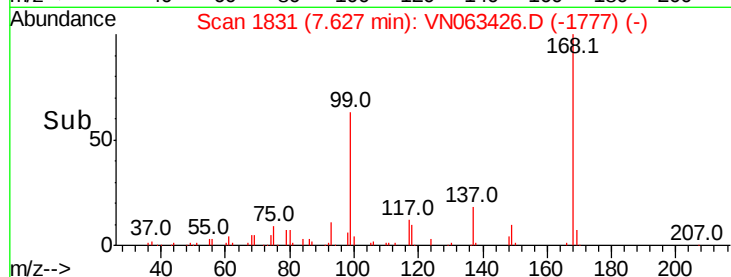
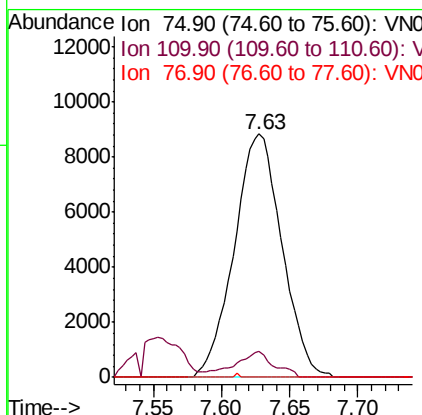
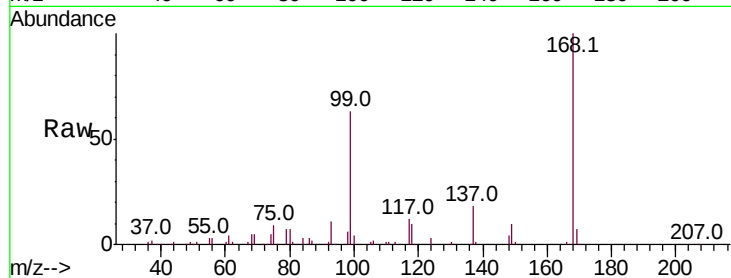




#36
 1,1-Dichloropropene
 Concen: 4.564 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063426.D
 Acq: 17 Sep 2020 18:01

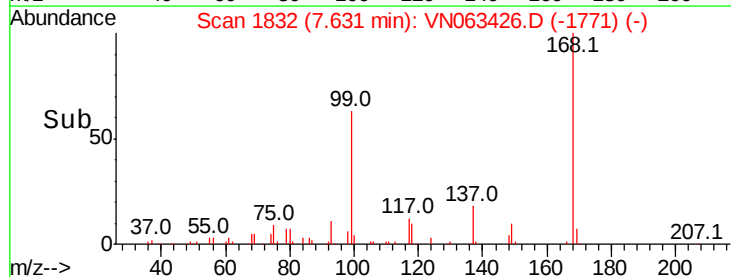
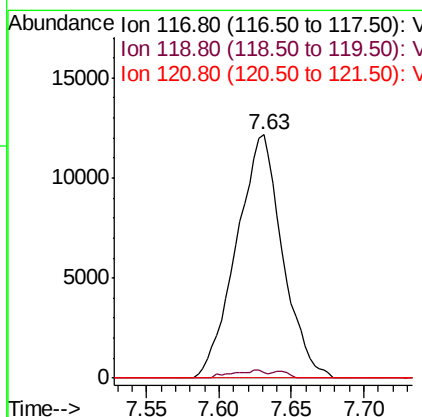
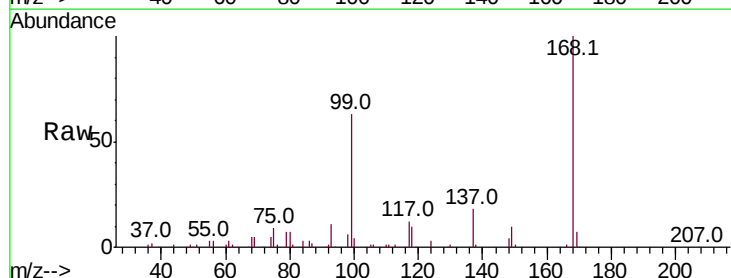
Instrument :
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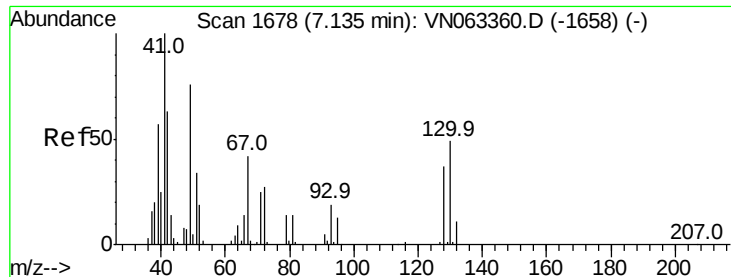
Tot Ion	75	Resp	21457
Ion Ratio	100	Lower	Upper
75	100		
110	8.7	16.5	49.5#
77	0.1	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.592 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.10 min
 Lab File: VN063426.D
 Acq: 17 Sep 2020 18:01

Tgt Ion	117	Resp	26838
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	2.4	74.5	111.7#
121	0.0	24.1	36.1#

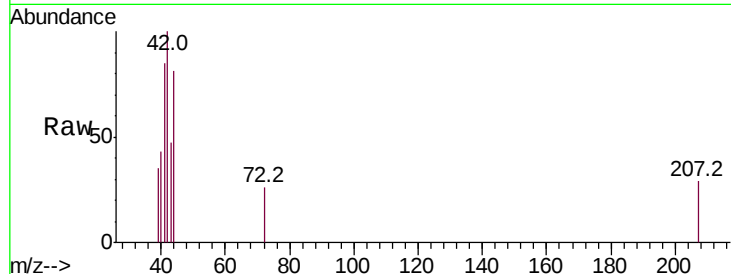




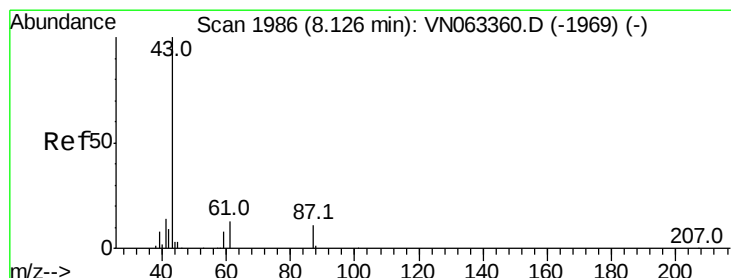
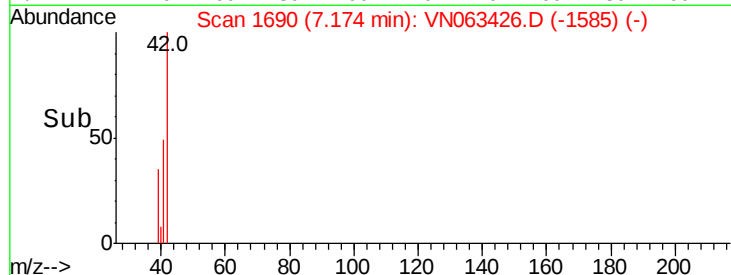
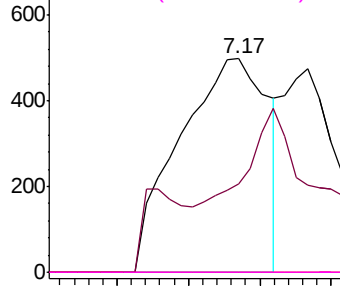
#41
Methacrylonitrile
Concen: 0.413 ug/l
RT: 7.17 min Scan# 1690
Delta R.T. 0.04 min
Lab File: VN063426.D
Acq: 17 Sep 2020 18:01

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(C-0)

Tot Ion:	41	Resp:	857
Ion	Ratio	Lower	Upper
41	100		
39	28.5	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

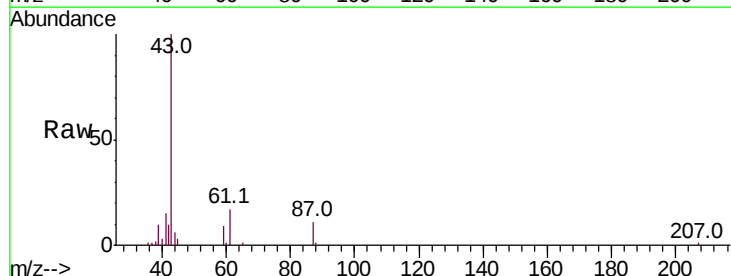


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

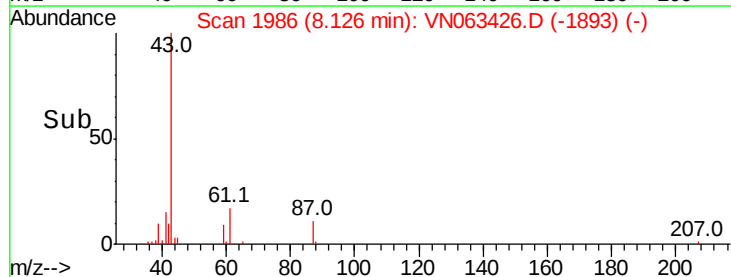
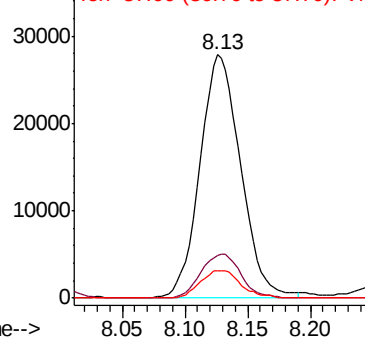


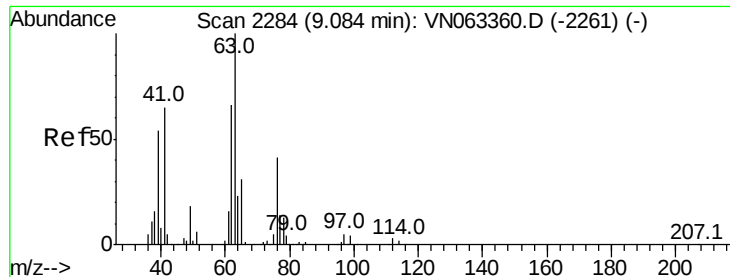
#43
Isopropyl Acetate
Concen: 7.642 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN063426.D
Acq: 17 Sep 2020 18:01

Tgt Ion:	43	Resp:	63049
Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.2	21.2
87	11.3	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

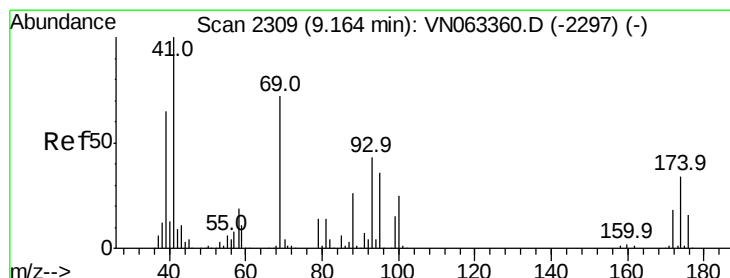
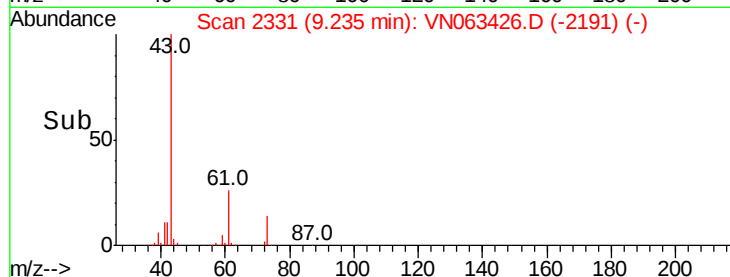
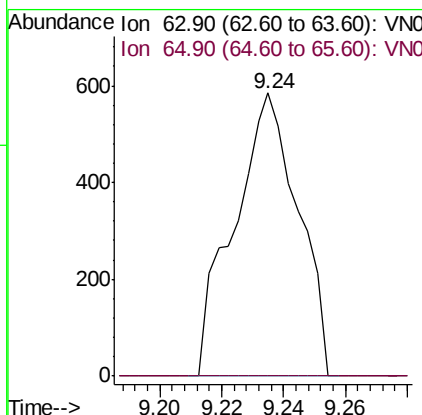
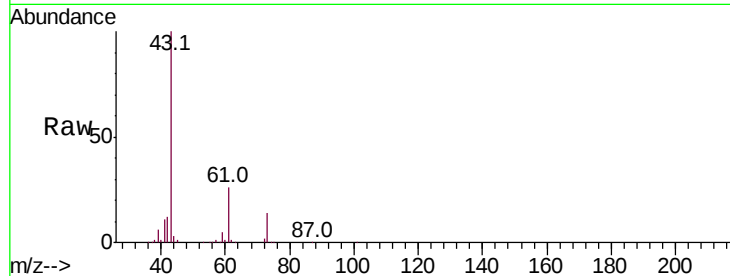




#45
 1,2-Dichloropropane
 Concen: 0.230 ug/l
 RT: 9.24 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN063426.D
 Acq: 17 Sep 2020 18:01

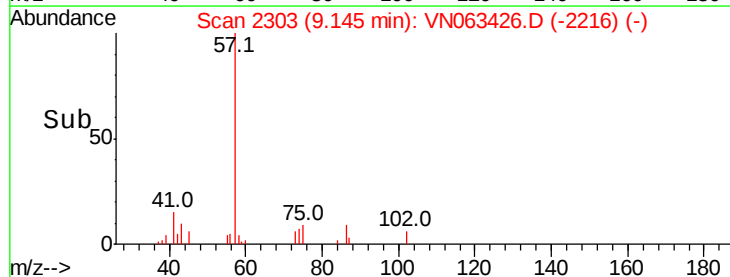
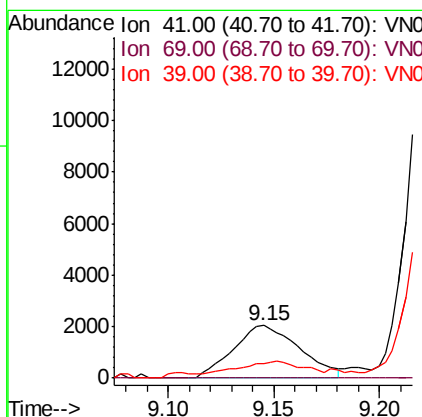
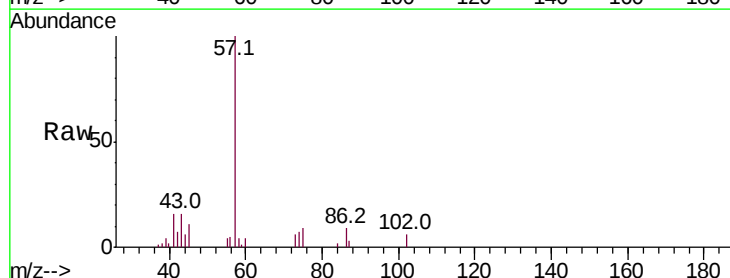
Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-5W-(C-0)

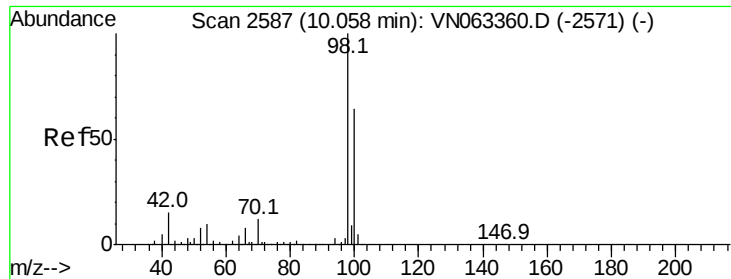
Tot Ion: 63 Resp: 842
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.104 ug/l
 RT: 9.15 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN063426.D
 Acq: 17 Sep 2020 18:01

Tgt Ion: 41 Resp: 4476
 Ion Ratio Lower Upper
 41 100
 69 0.0 59.3 88.9#
 39 0.0 52.9 79.3#





#50

Toluene-d8

Concen: 49.763 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063426.D

Acq: 17 Sep 2020 18:01

Instrument :

MSVOA_N

ClientSampleId :

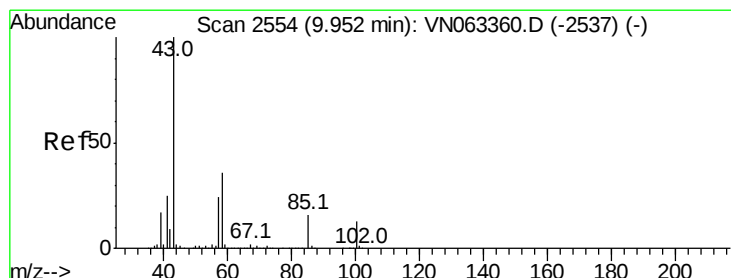
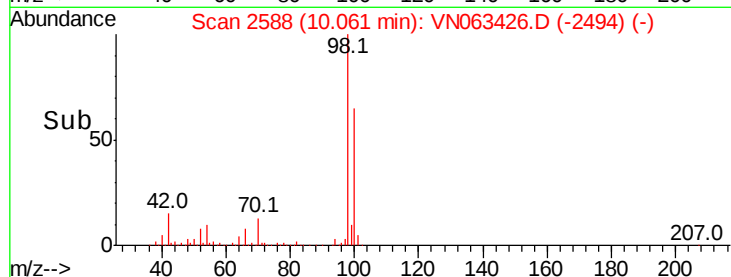
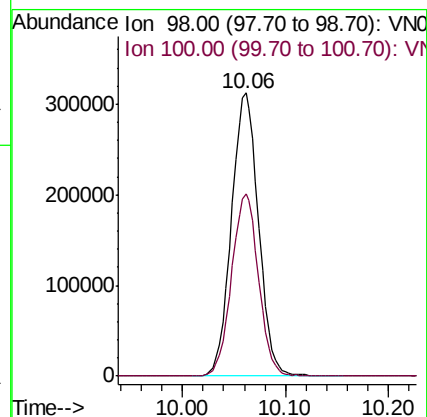
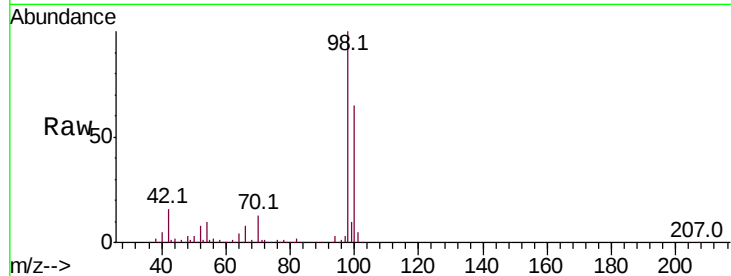
REACTOR-5W-(C-0)

Tot Ion: 98 Resp: 571647

Ion Ratio Lower Upper

98 100

100 64.0 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 1.770 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063426.D

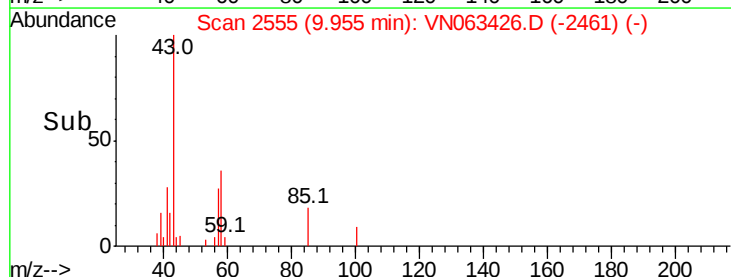
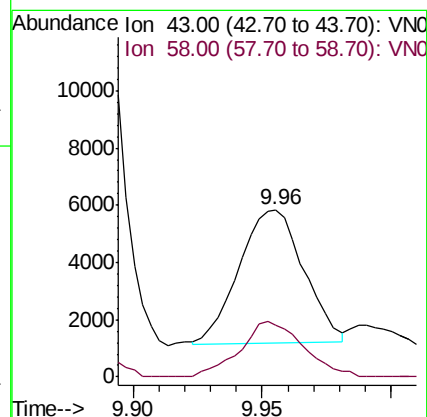
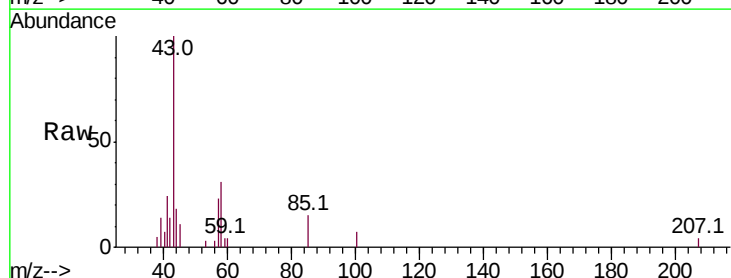
Acq: 17 Sep 2020 18:01

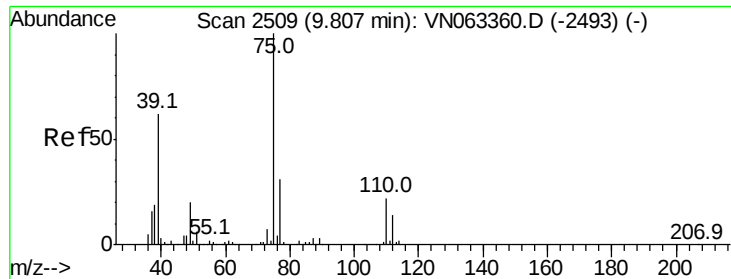
Tgt Ion: 43 Resp: 8174

Ion Ratio Lower Upper

43 100

58 40.9 29.0 43.6



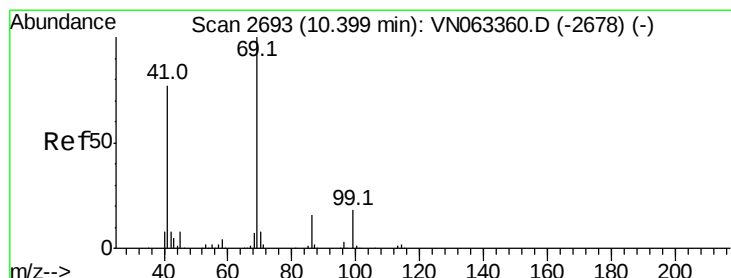
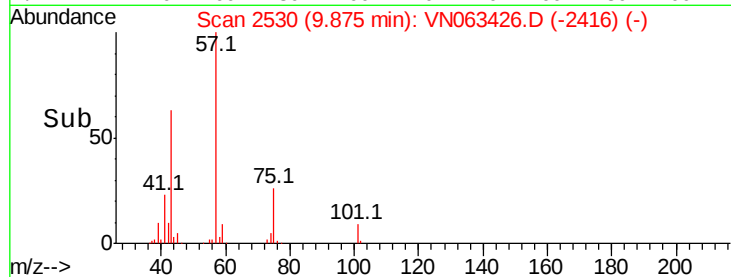
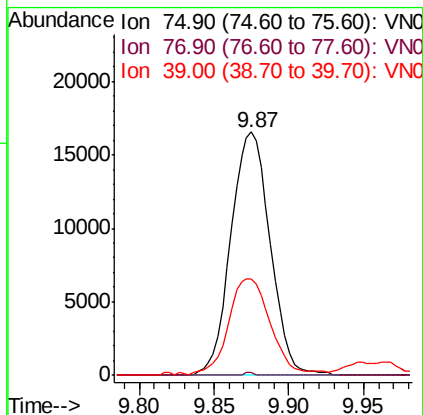
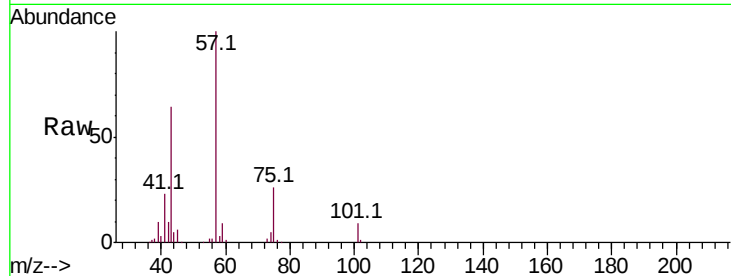


#54

cis-1,3-Dichloropropene
Concen: 5.144 ug/l
RT: 9.87 min Scan# 2530
Delta R.T. 0.07 min
Lab File: VN063426.D
Acq: 17 Sep 2020 18:01

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(C-0)

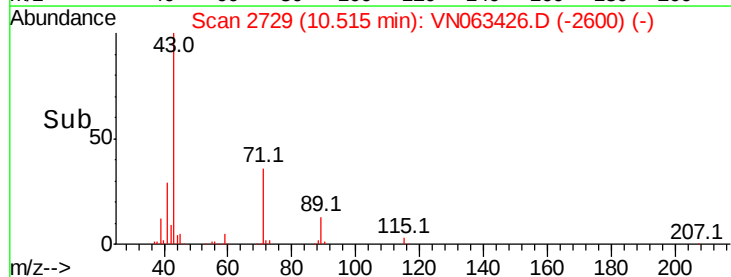
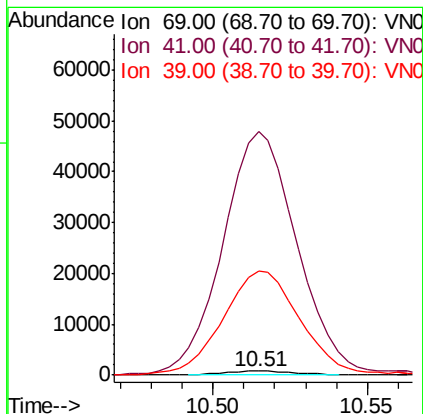
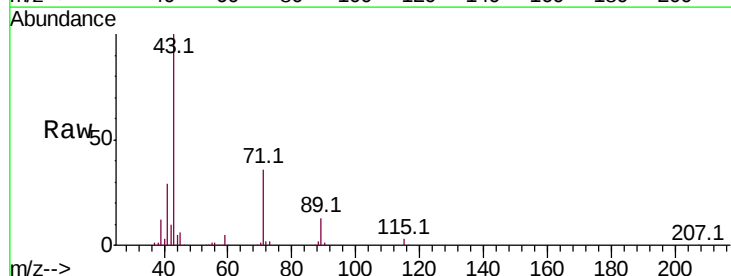
Tot Ion: 75 Resp: 30233
Ion Ratio Lower Upper
75 100
77 1.0 24.6 37.0#
39 39.5 49.8 74.8#

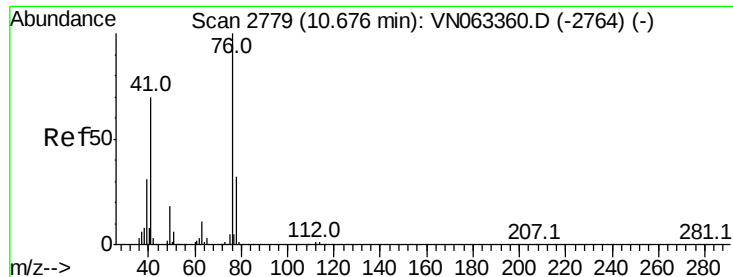


#56

Ethyl methacrylate
Concen: 0.240 ug/l
RT: 10.51 min Scan# 2729
Delta R.T. 0.12 min
Lab File: VN063426.D
Acq: 17 Sep 2020 18:01

Tgt Ion: 69 Resp: 1200
Ion Ratio Lower Upper
69 100
41 6673.8 61.0 91.6#
39 2996.7 39.2 58.8#





#57

1,3-Dichloropropane

Concen: 0.520 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063426.D

Acq: 17 Sep 2020 18:01

Instrument :

MSVOA_N

ClientSampleId :

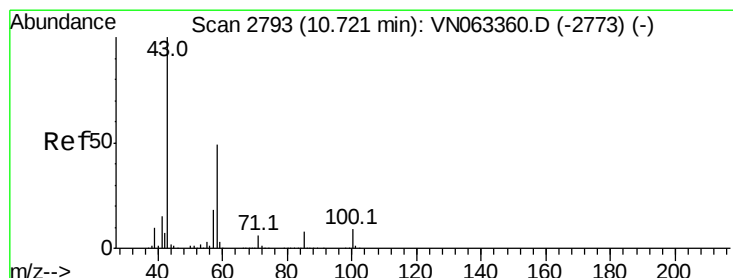
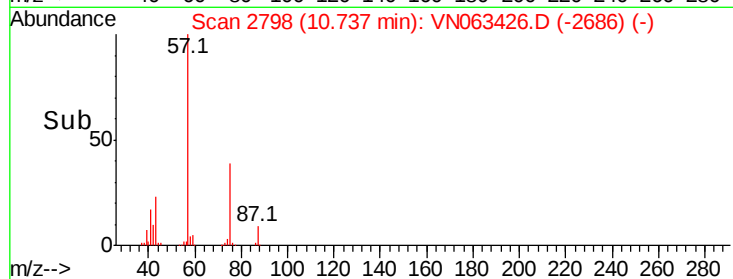
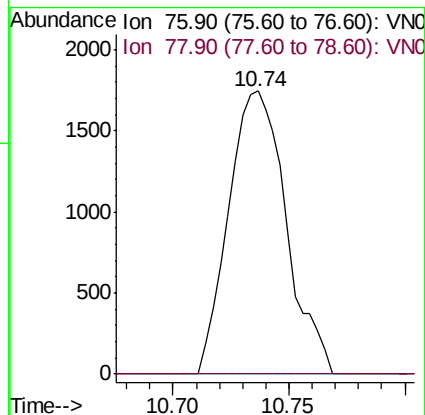
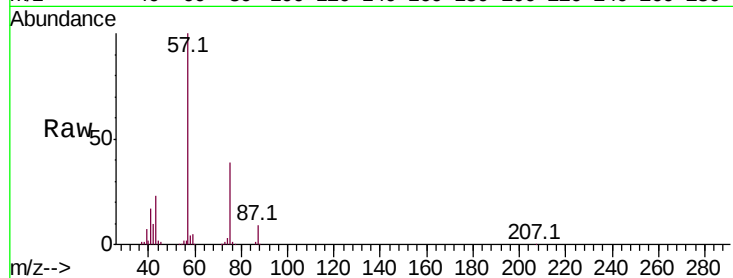
REACTOR-5W-(C-0)

Tot Ion: 76 Resp: 3008

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 15.798 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063426.D

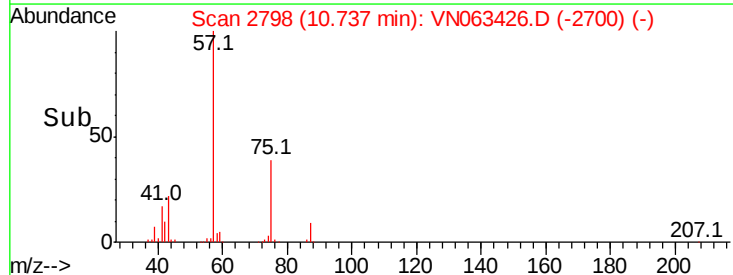
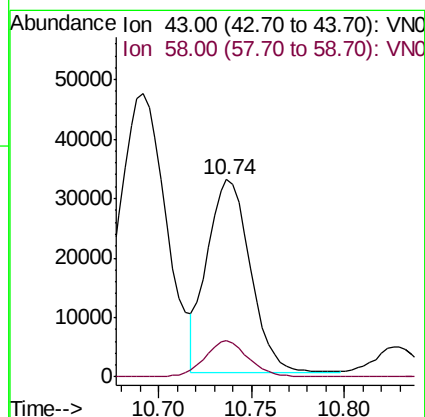
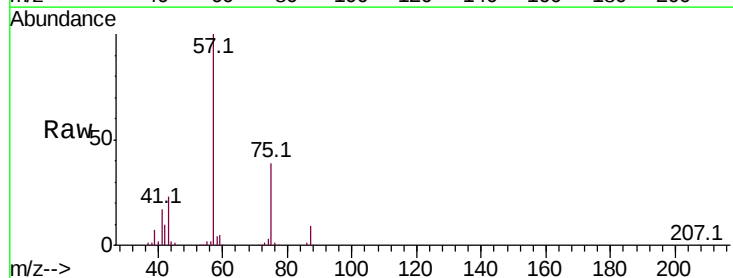
Acq: 17 Sep 2020 18:01

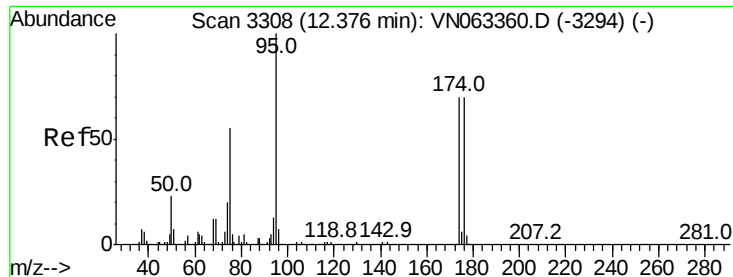
Tgt Ion: 43 Resp: 52865

Ion Ratio Lower Upper

43 100

58 18.6 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 54.292 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063426.D

Acq: 17 Sep 2020 18:01

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(C-0)

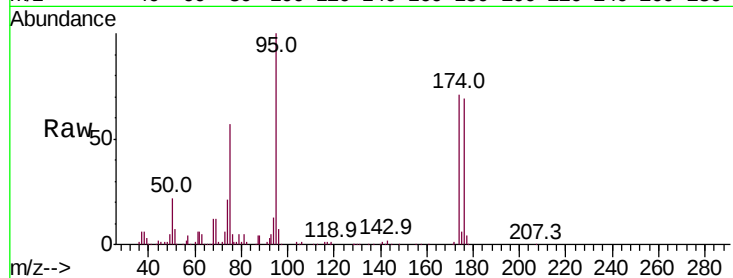
Tot Ion: 95 Resp: 228627

Ion Ratio Lower Upper

95 100

174 71.7 0.0 140.8

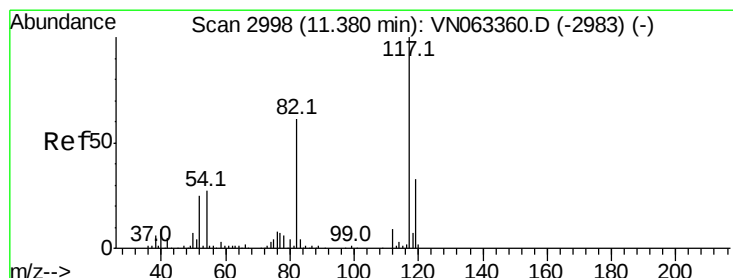
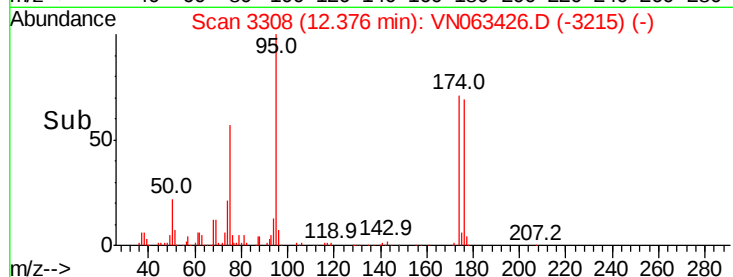
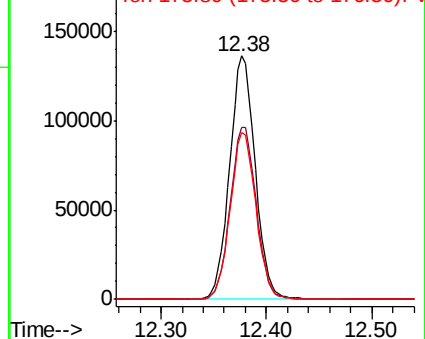
176 68.9 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063360.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063360.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063360.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063426.D

Acq: 17 Sep 2020 18:01

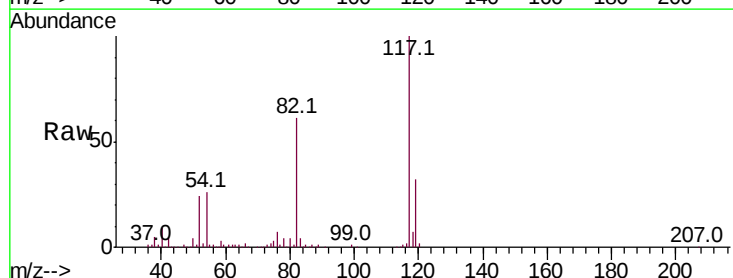
Tgt Ion: 117 Resp: 446253

Ion Ratio Lower Upper

117 100

82 61.4 49.2 73.8

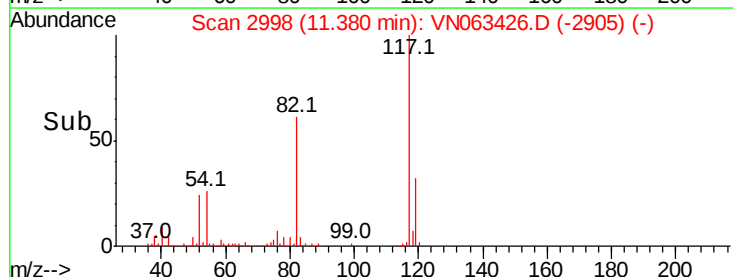
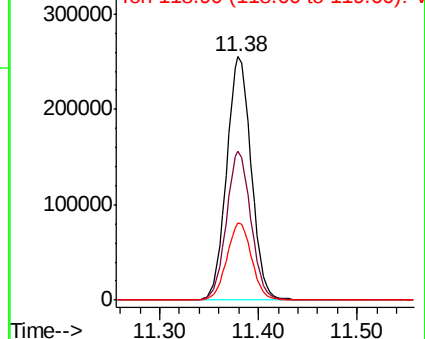
119 31.7 26.2 39.4

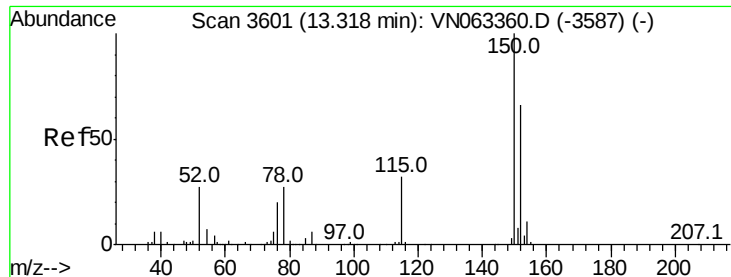


Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063360.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063360.D (-2983) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063426.D

Acq: 17 Sep 2020 18:01

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(C-0)

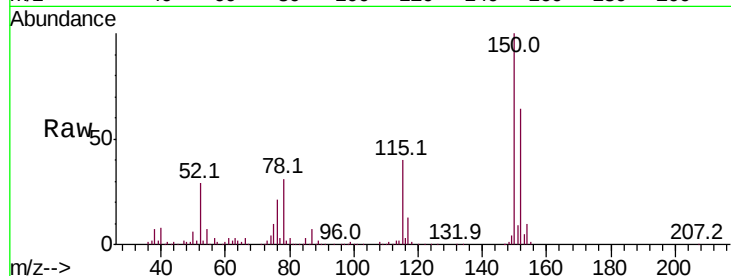
Tot Ion:152 Resp: 195991

Ion Ratio Lower Upper

152 100

115 62.9 32.2 96.6

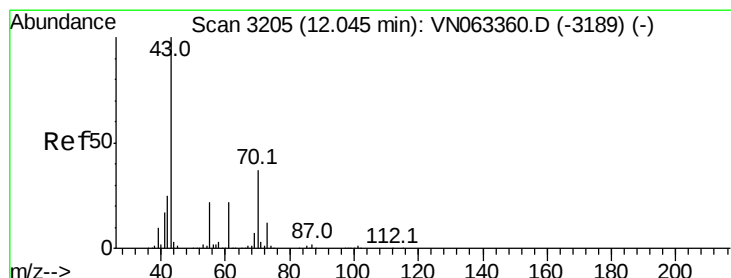
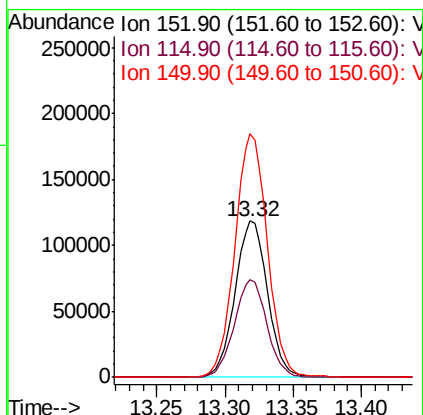
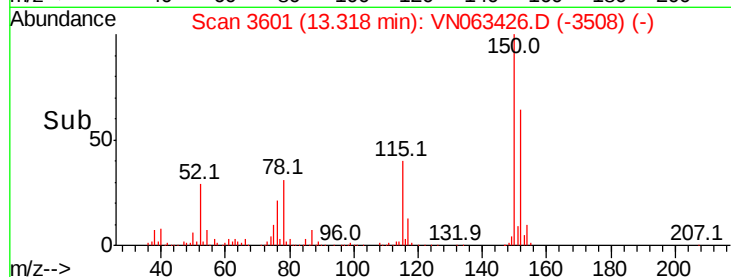
150 155.8 0.0 343.4



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



#74

N-ethyl acetate

Concen: 0.262 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063426.D

Acq: 17 Sep 2020 18:01

Tgt Ion: 43 Resp: 1947

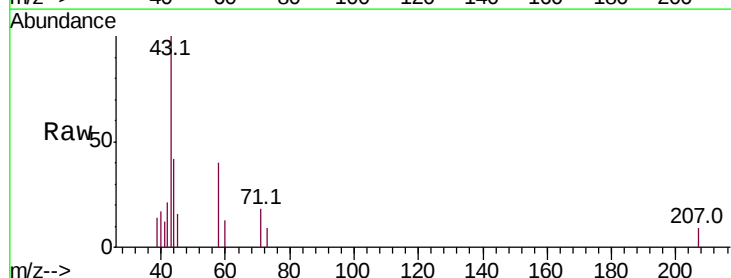
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 8.5 17.7 26.5#

61 0.0 17.4 26.2#

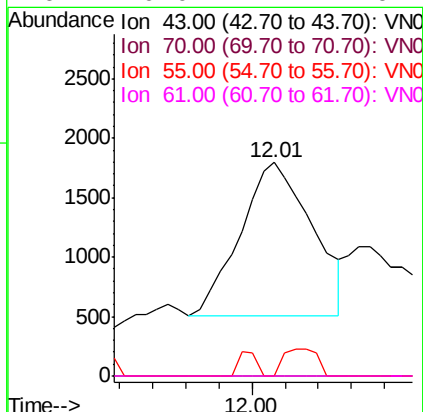
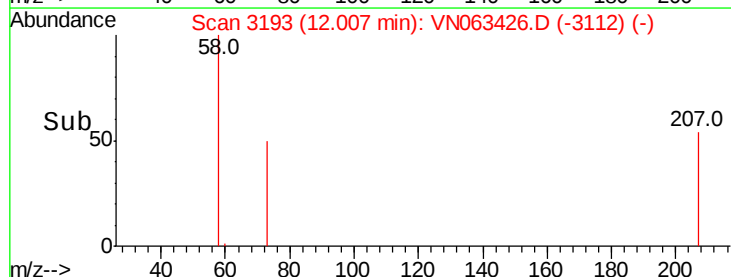


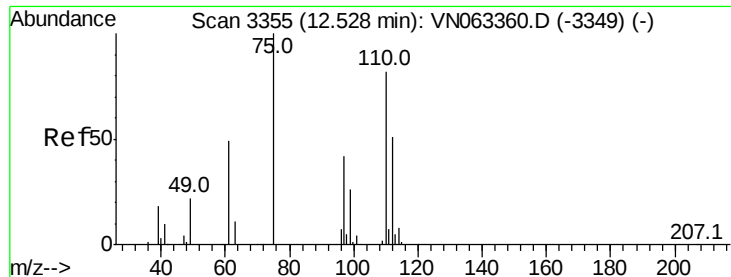
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 26.633 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063426.D

Acq: 17 Sep 2020 18:01

Instrument :

MSVOA_N

ClientSampleId :

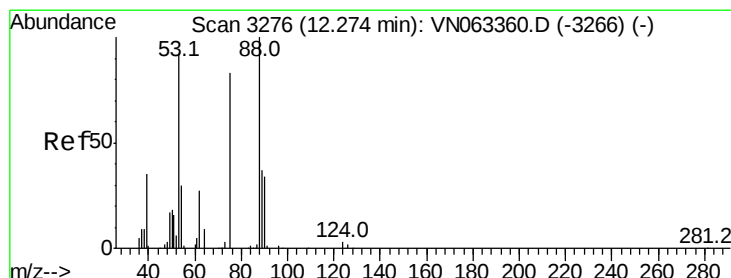
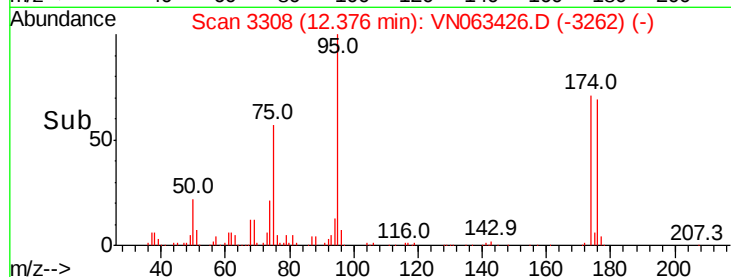
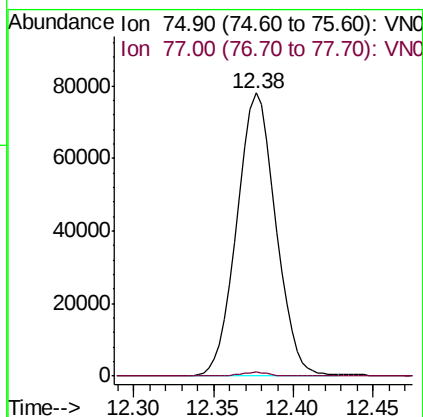
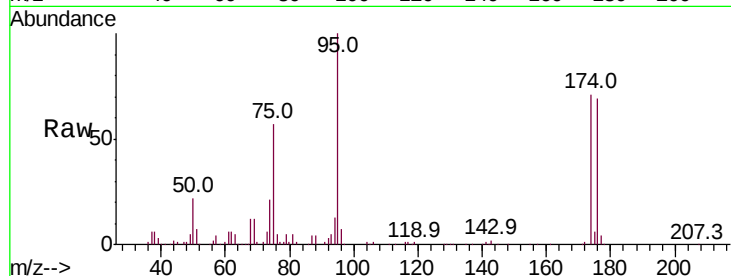
REACTOR-5W-(C-0)

Tot Ion: 75 Resp: 129198

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.018 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063426.D

Acq: 17 Sep 2020 18:01

Tgt Ion: 75 Resp: 129198

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

