

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091720\
 Data File : VN063424.D
 Acq On : 17 Sep 2020 17:13
 Operator : JC/MD
 Sample : L4015-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

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

Quant Time: Sep 18 02:51:08 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	237290	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	443632	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	442606	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	192895	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	196876	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
35) Dibromofluoromethane	7.55	113	142855	46.51	ug/l	0.00
Spiked Amount			Recovery	=	93.02%	
50) Toluene-d8	10.06	98	580466	50.26	ug/l	0.00
Spiked Amount			Recovery	=	100.52%	
62) 4-Bromofluorobenzene	12.38	95	223812	52.87	ug/l	0.00
Spiked Amount			Recovery	=	105.74%	

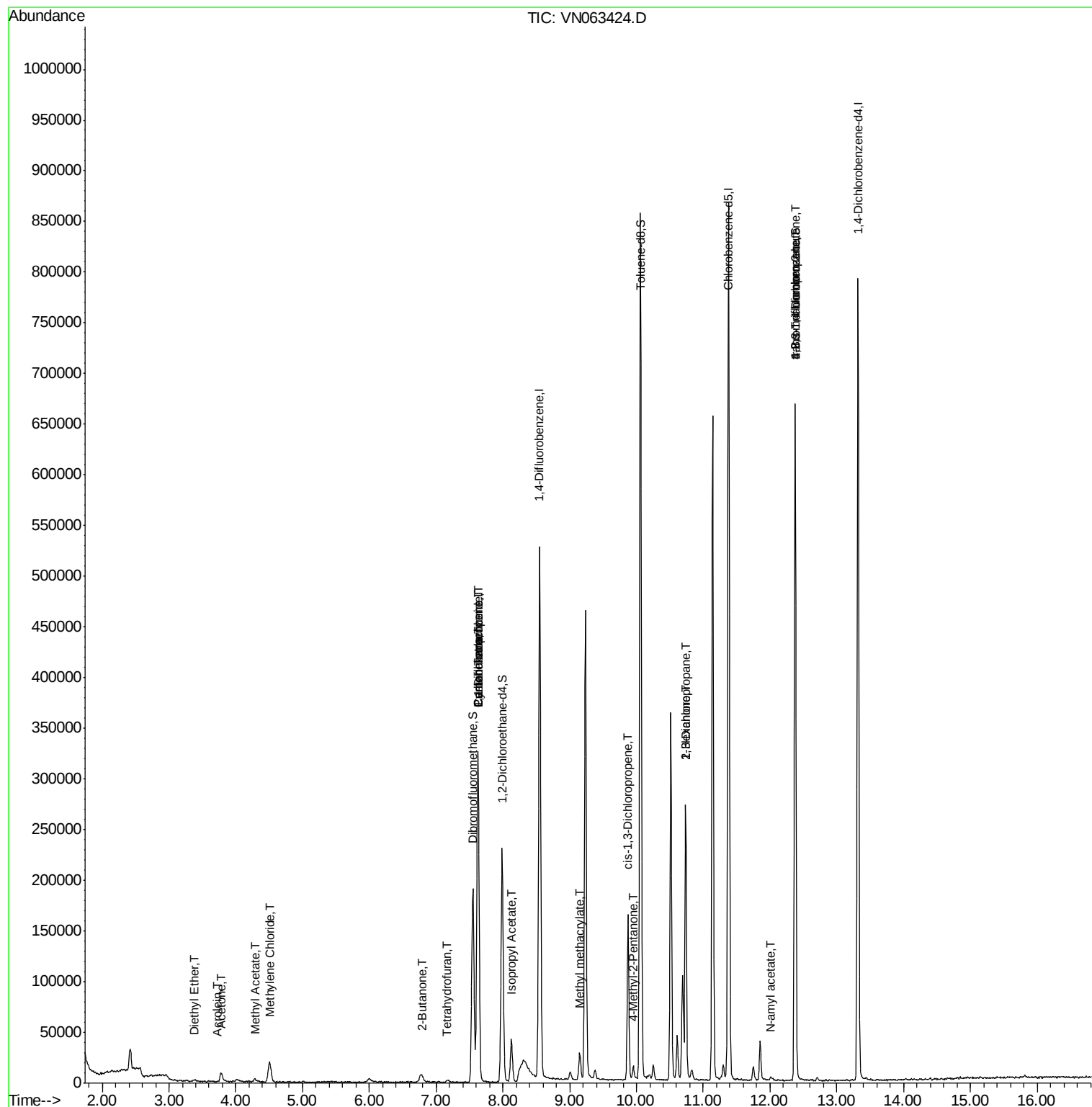
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.39	74	404	0.220	ug/l	62
13) Acrolein	3.73	56	63	0.304	ug/l #	13
16) Acetone	3.78	43	16245	12.514	ug/l	99
18) Methyl Acetate	4.29	43	4205	1.276	ug/l #	74
20) Methylene Chloride	4.51	84	14346	4.362	ug/l	89
25) 2-Butanone	6.80	43	4543	2.275	ug/l #	84
29) Tetrahydrofuran	7.15	42	480	0.352	ug/l #	41
31) Cyclohexane	7.63	56	7027	1.260	ug/l #	29
36) 1,1-Dichloropropene	7.63	75	22510	4.763	ug/l #	51
38) Carbon Tetrachloride	7.63	117	25853	5.359	ug/l #	17
43) Isopropyl Acetate	8.13	43	50792	6.124	ug/l	100
48) Methyl methacrylate	9.14	41	4398	1.079	ug/l #	36
51) 4-Methyl-2-Pentanone	9.96	43	8128	1.750	ug/l #	86
54) cis-1,3-Dichloropropene	9.87	75	27991	4.738	ug/l #	62
57) 1,3-Dichloropropane	10.74	76	2461	0.424	ug/l #	42
59) 2-Hexanone	10.74	43	42407	12.606	ug/l #	56
74) N-amyl acetate	12.01	43	2841	0.388	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	127334	26.670	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	127334	73.119	ug/l #	7

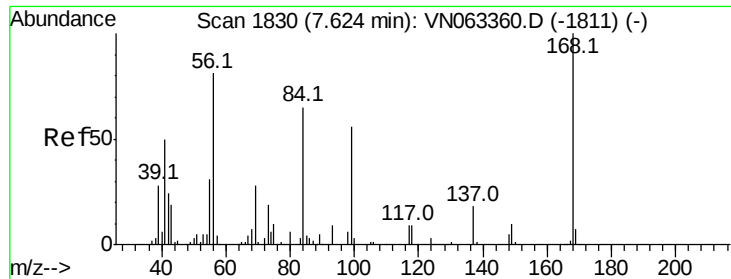
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 16 13:05:20 2020
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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: VN063424.D

Acq: 17 Sep 2020 17:13

Instrument :

MSVOA_N

ClientSampleId :

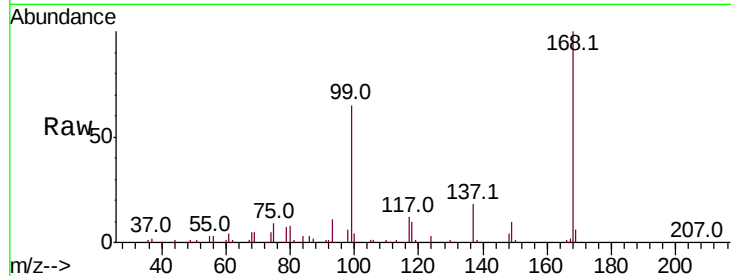
REACTOR-5W-(A-0)

Tot Ion:168 Resp: 237290

Ion Ratio Lower Upper

168 100

99 65.3 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

60000

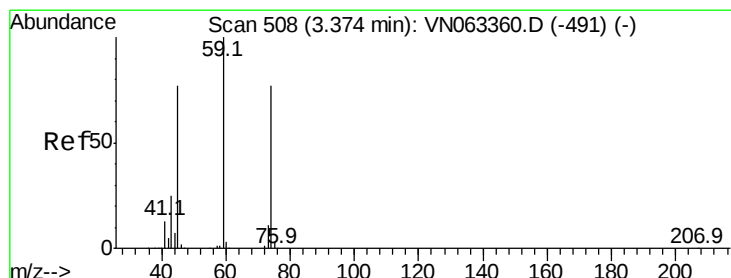
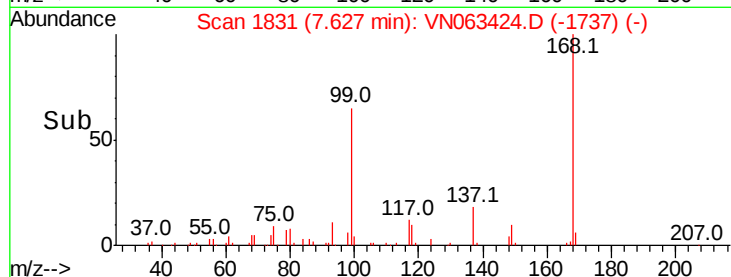
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#8

Diethyl Ether

Concen: 0.220 ug/l

RT: 3.39 min Scan# 512

Delta R.T. 0.01 min

Lab File: VN063424.D

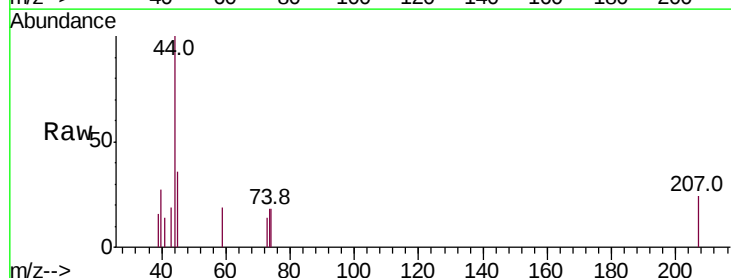
Acq: 17 Sep 2020 17:13

Tgt Ion: 74 Resp: 404

Ion Ratio Lower Upper

74 100

45 143.1 52.1 156.4



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.39

500

400

300

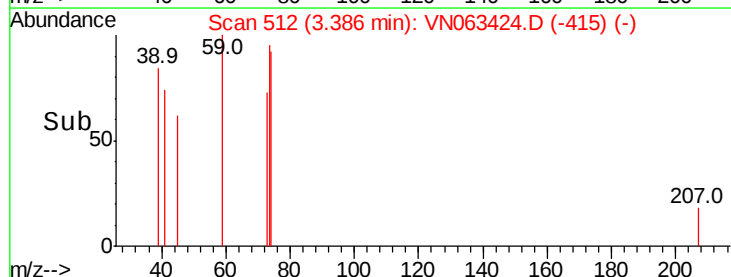
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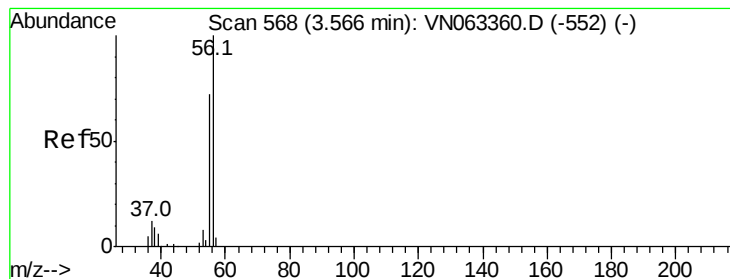
100

0

Time-->

3.36 3.38 3.40





#13

Acrolein

Concen: 0.304 ug/l

RT: 3.73 min Scan# 619

Delta R.T. 0.16 min

Lab File: VN063424.D

Acq: 17 Sep 2020 17:13

Instrument :

MSVOA_N

ClientSampleId :

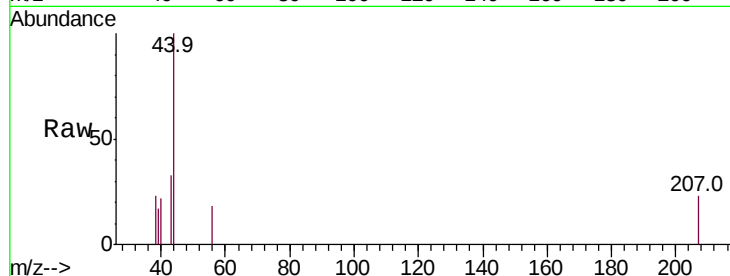
REACTOR-5W-(A-0)

Tot Ion: 56 Resp: 63

Ion Ratio Lower Upper

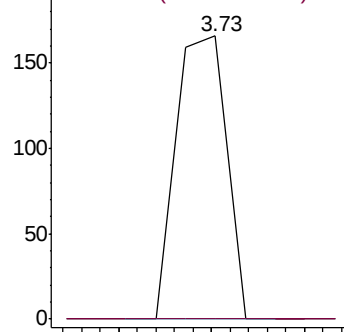
56 100

55 0.0 58.2 87.2#

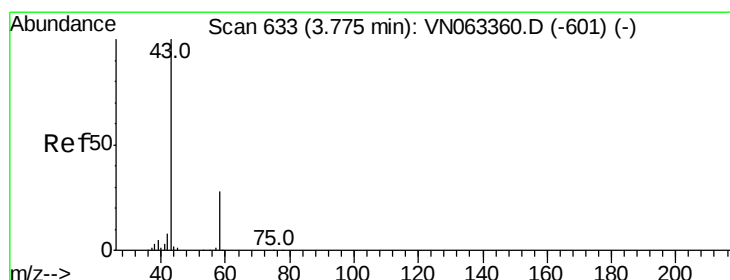
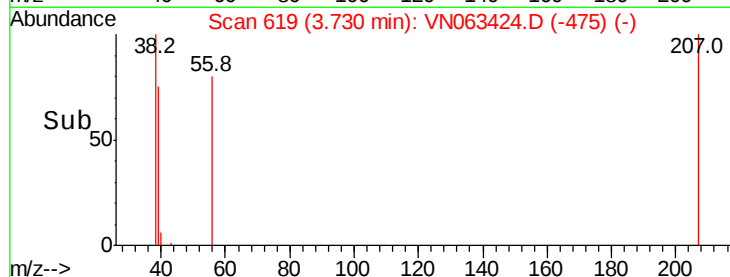


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#16

Acetone

Concen: 12.514 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063424.D

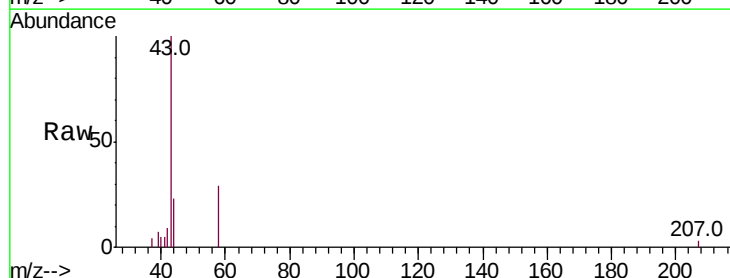
Acq: 17 Sep 2020 17:13

Tgt Ion: 43 Resp: 16245

Ion Ratio Lower Upper

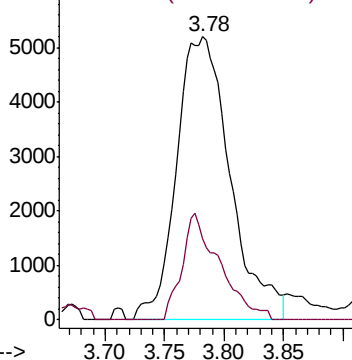
43 100

58 28.6 22.3 33.5

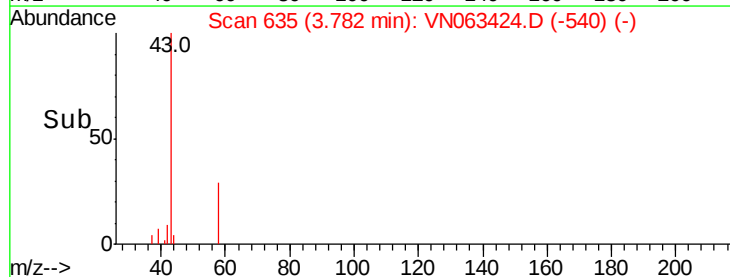


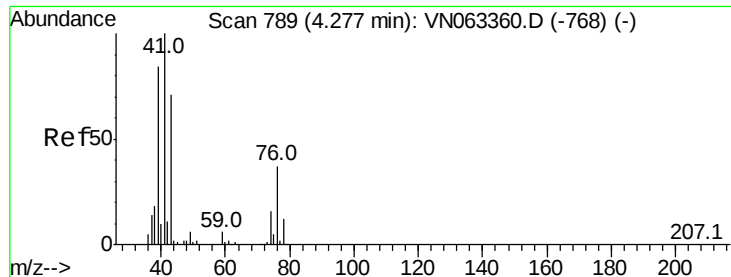
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->

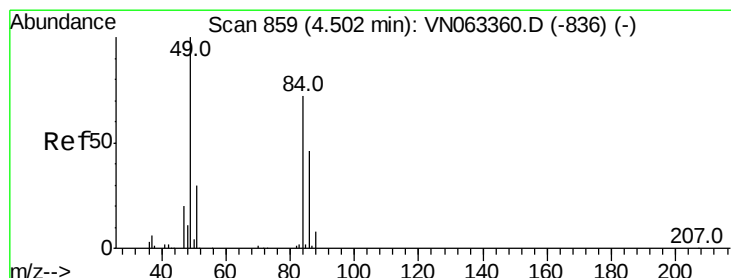
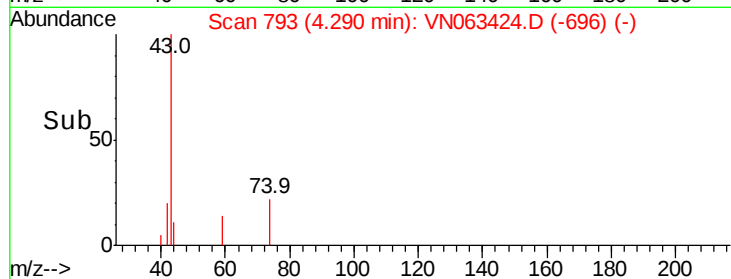
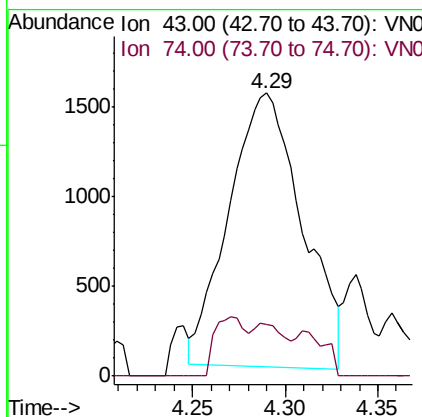
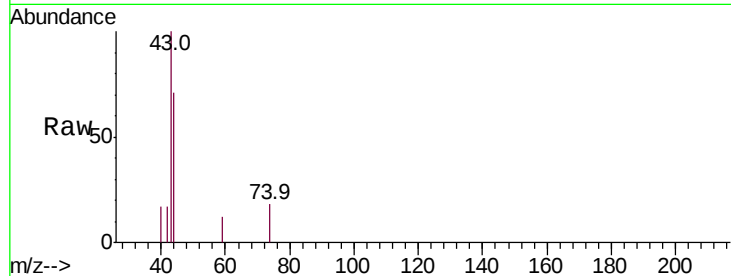




#18
Methvl Acetate
Concen: 1.276 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN063424.D
Acq: 17 Sep 2020 17:13

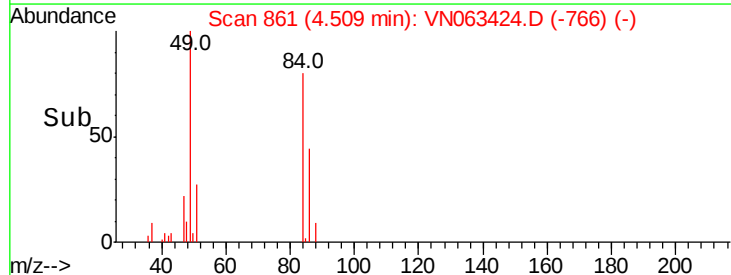
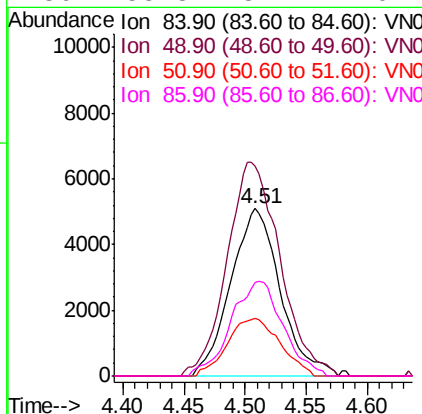
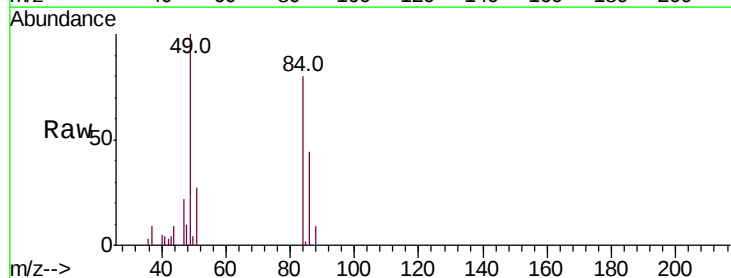
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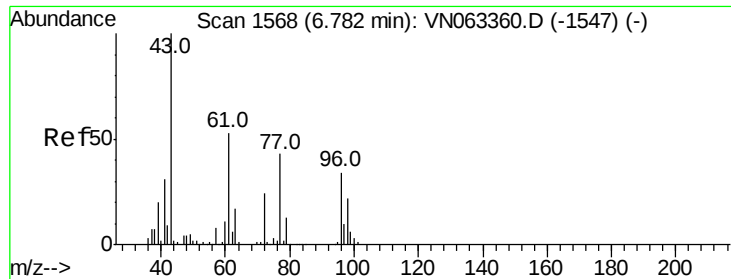
Tot Ion: 43 Resp: 4205
Ion Ratio Lower Upper
43 100
74 9.3 17.4 26.2#



#20
Methylene Chloride
Concen: 4.362 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063424.D
Acq: 17 Sep 2020 17:13

Tgt Ion: 84 Resp: 14346
Ion Ratio Lower Upper
84 100
49 125.4 110.7 166.1
51 34.3 32.9 49.3
86 55.8 51.1 76.7

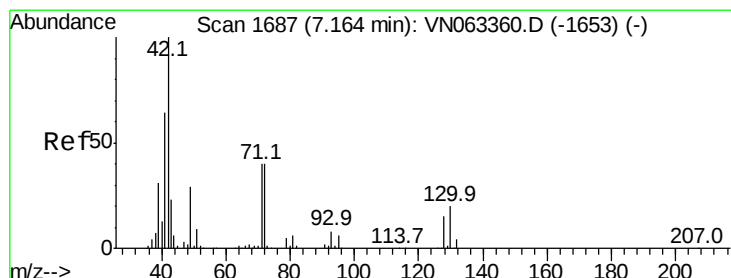
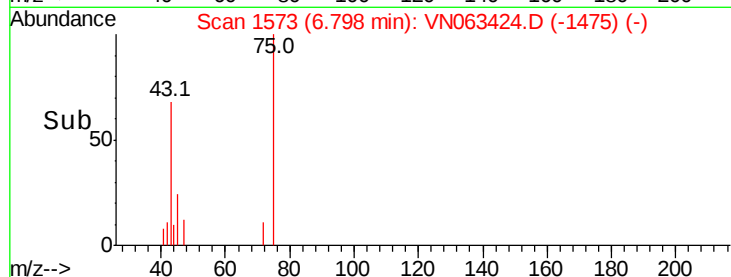
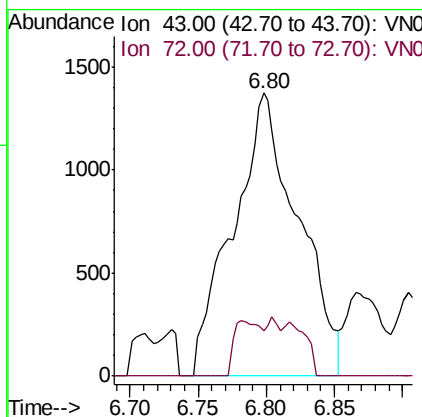
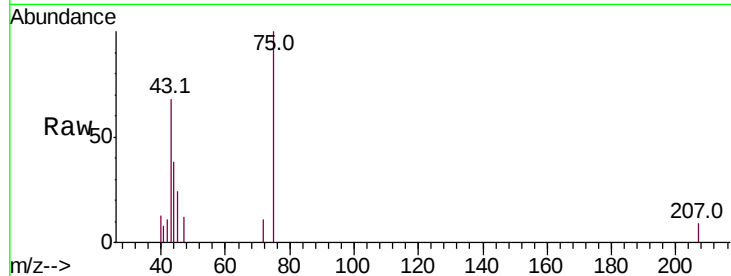




#25
2-Butanone
Concen: 2.275 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN063424.D
Acq: 17 Sep 2020 17:13

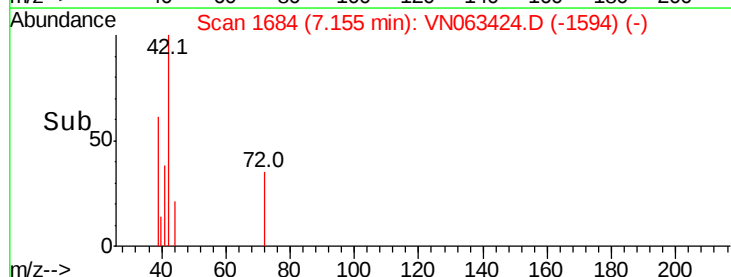
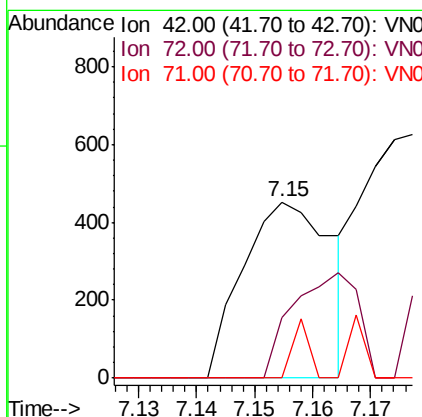
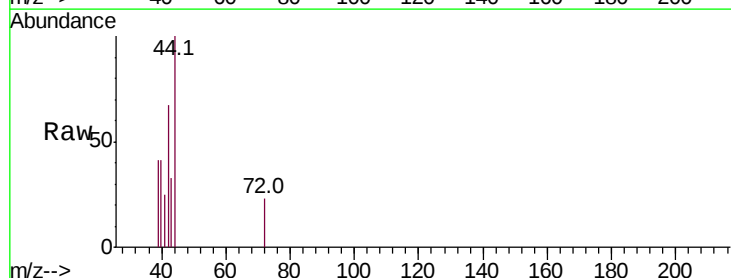
Instrument :
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ClientSampleId :
REACTOR-5W-(A-0)

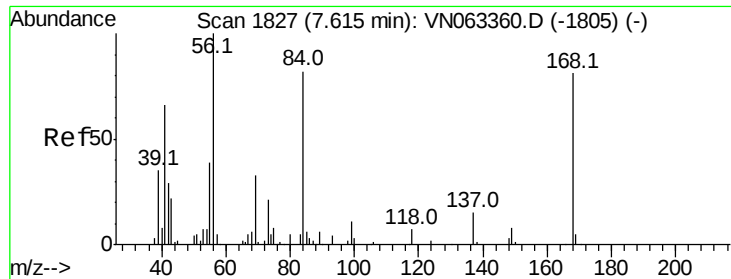
Tot Ion: 43 Resp: 4543
Ion Ratio Lower Upper
43 100
72 16.0 19.2 28.8#



#29
Tetrahydrofuran
Concen: 0.352 ug/l
RT: 7.15 min Scan# 1684
Delta R.T. -0.01 min
Lab File: VN063424.D
Acq: 17 Sep 2020 17:13

Tgt Ion: 42 Resp: 480
Ion Ratio Lower Upper
42 100
72 0.0 32.1 48.1#
71 6.0 31.2 46.8#

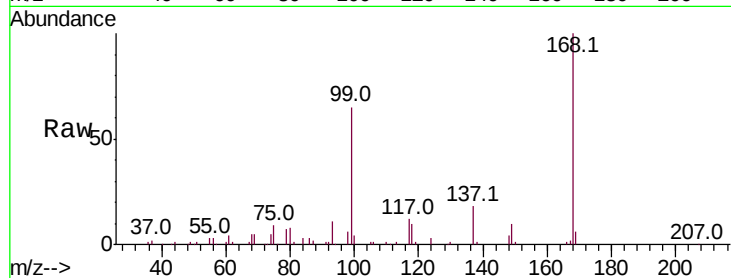




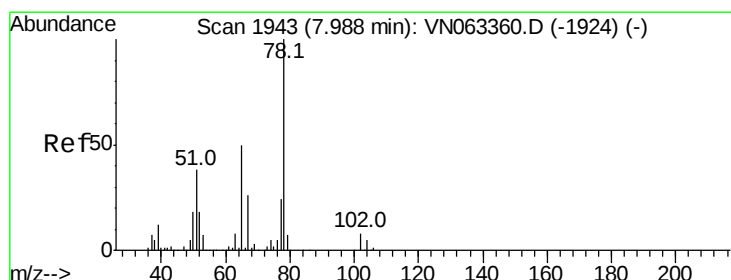
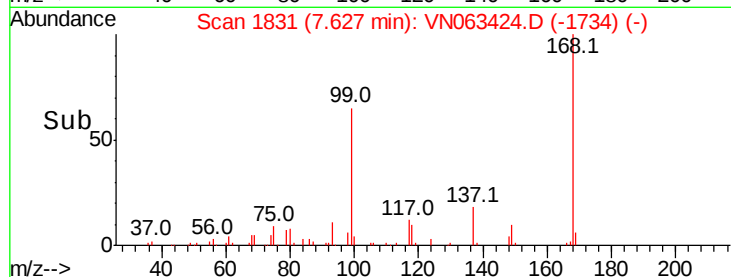
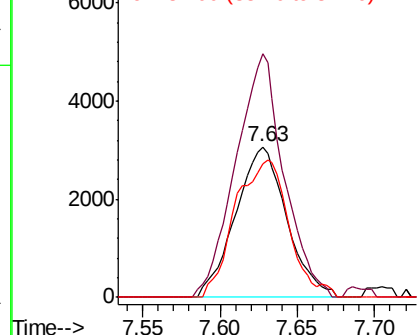
#31
Cyclohexane
Concen: 1.260 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063424.D
Acq: 17 Sep 2020 17:13

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

Tot Ion: 56 Resp: 7027
Ion Ratio Lower Upper
56 100
69 162.2 26.1 39.1#
84 88.7 65.4 98.2

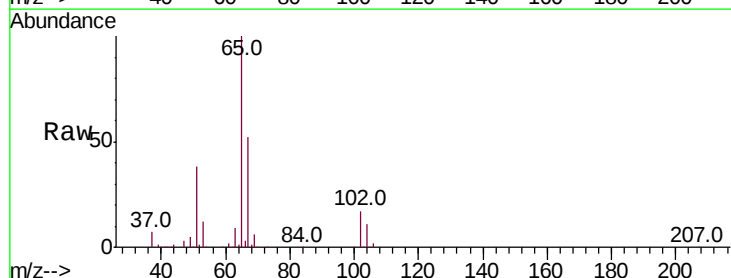


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

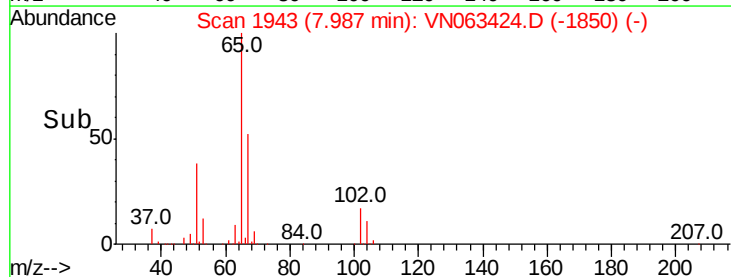
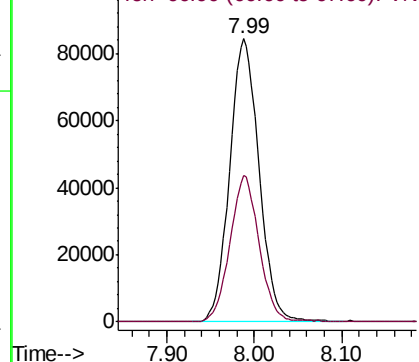


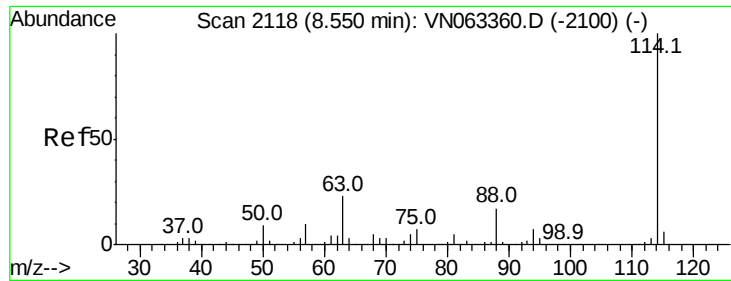
#33
1,2-Dichloroethane-d4
Concen: 48.740 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063424.D
Acq: 17 Sep 2020 17:13

Tgt Ion: 65 Resp: 196876
Ion Ratio Lower Upper
65 100
67 51.3 0.0 104.2



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

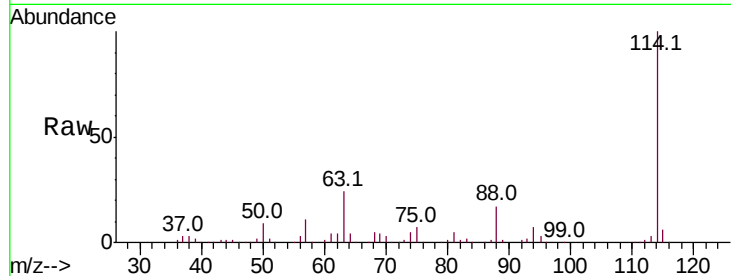




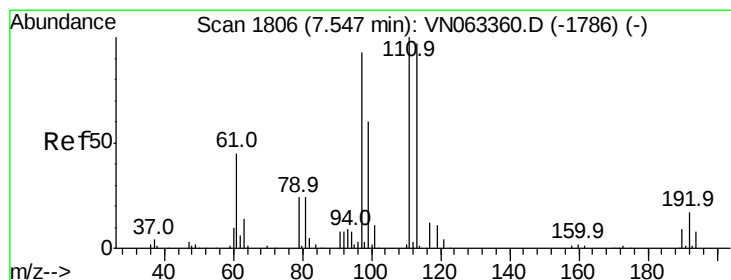
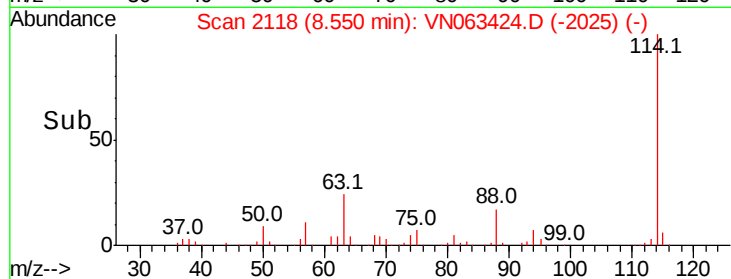
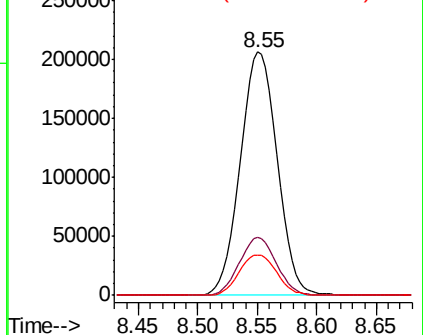
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063424.D
 Acq: 17 Sep 2020 17:13

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Tot Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	46.4
88	16.5	0.0	33.2

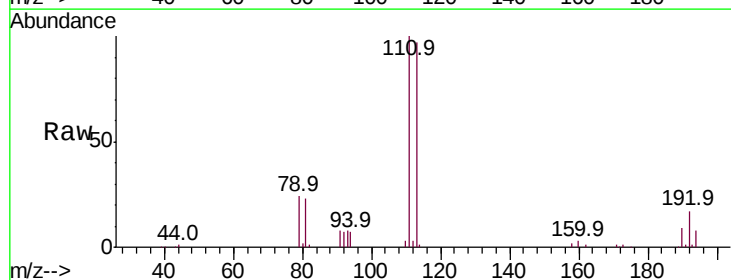


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

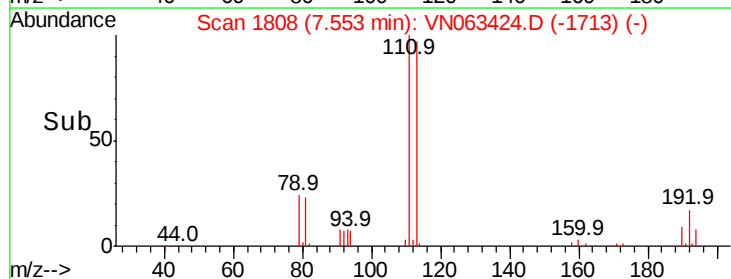
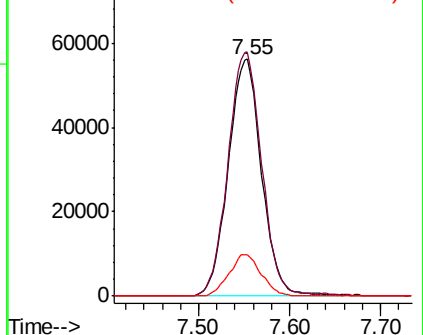


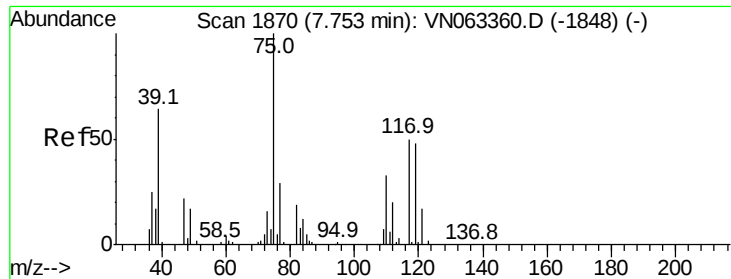
#35
 Dibromofluoromethane
 Concen: 46.515 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN063424.D
 Acq: 17 Sep 2020 17:13

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.9	124.3
192	16.9	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

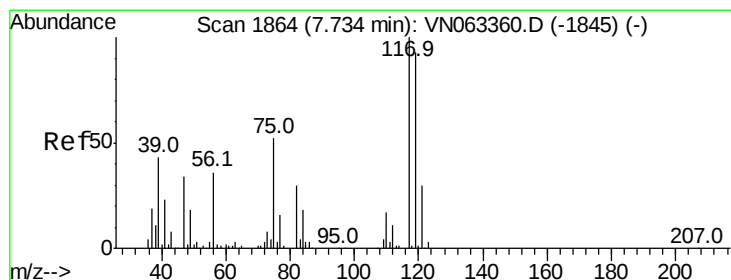
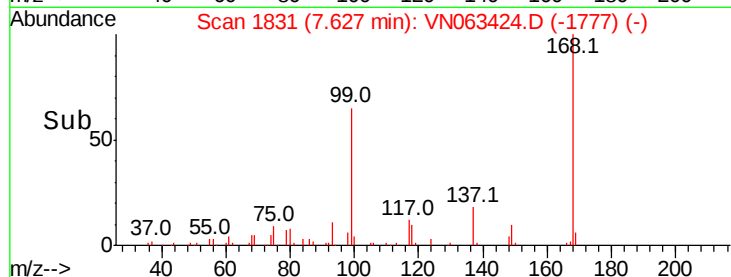
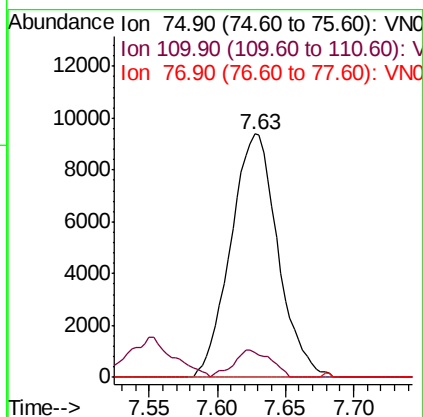
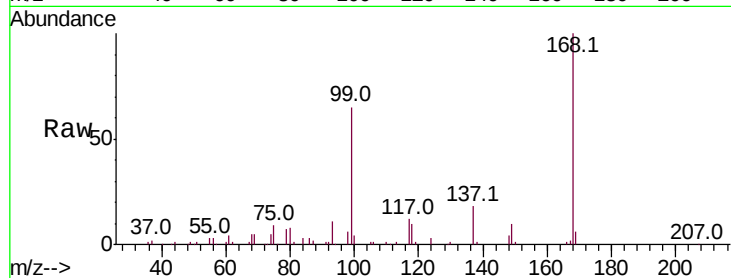




#36
 1,1-Dichloropropene
 Concen: 4.763 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063424.D
 Acq: 17 Sep 2020 17:13

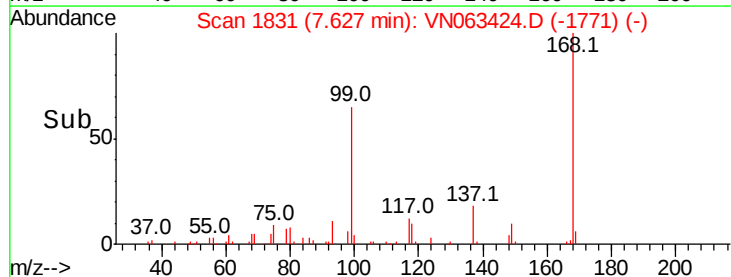
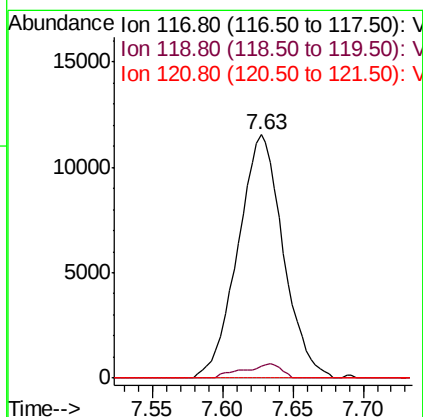
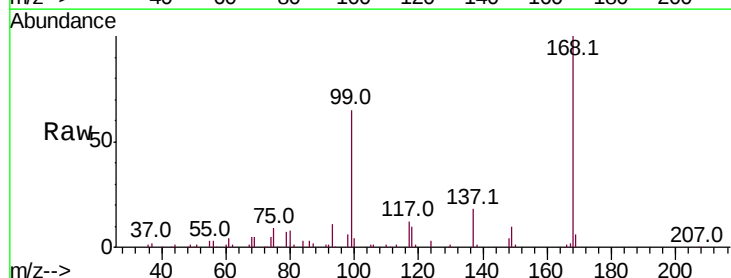
Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-5W-(A-0)

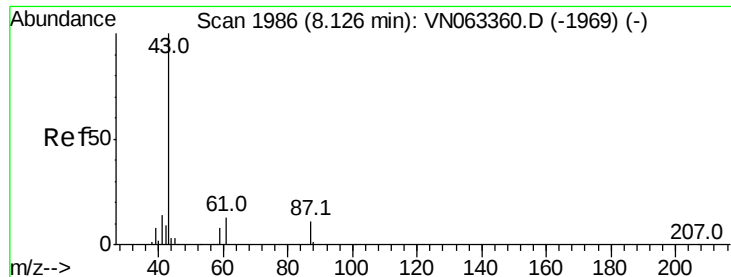
Tot Ion: 75 Resp: 22510
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.5 49.5#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 5.359 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063424.D
 Acq: 17 Sep 2020 17:13

Tgt Ion: 117 Resp: 25853
 Ion Ratio Lower Upper
 117 100
 119 4.8 74.5 111.7#
 121 0.0 24.1 36.1#





#43

Isopropyl Acetate

Concen: 6.124 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063424.D

Acq: 17 Sep 2020 17:13

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(A-0)

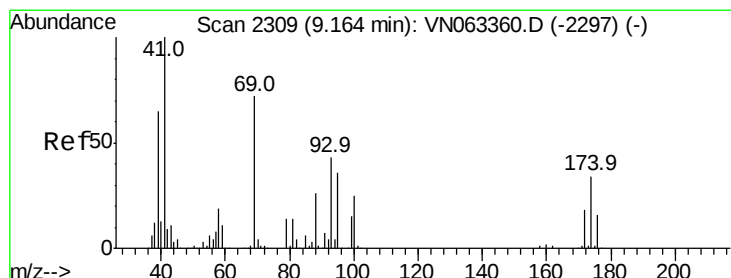
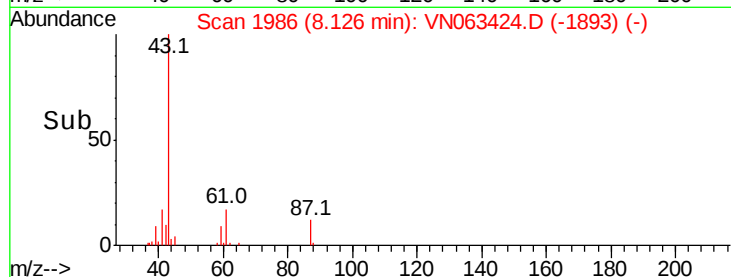
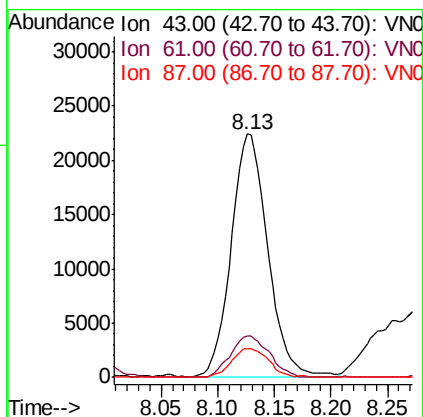
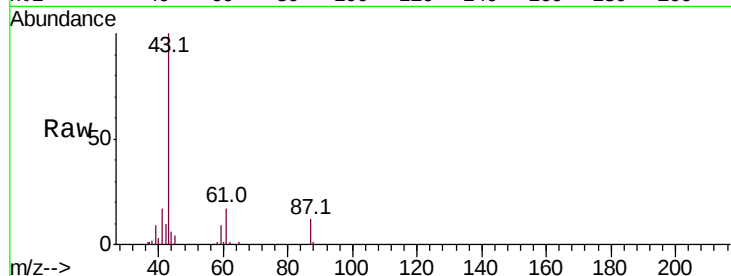
Tot Ion: 43 Resp: 50792

Ion Ratio Lower Upper

43 100

61 17.7 14.2 21.2

87 11.7 9.0 13.6



#48

Methyl methacrylate

Concen: 1.079 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063424.D

Acq: 17 Sep 2020 17:13

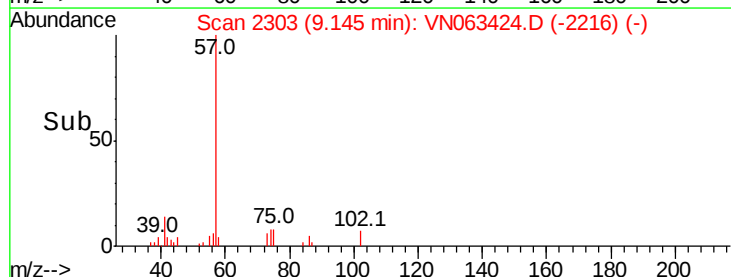
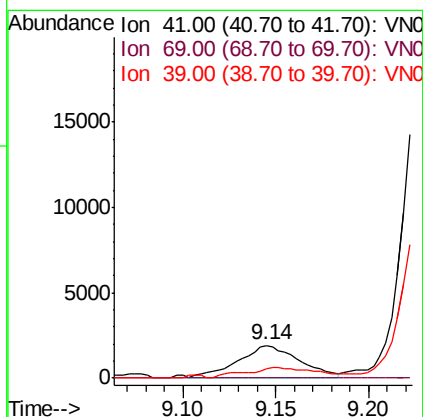
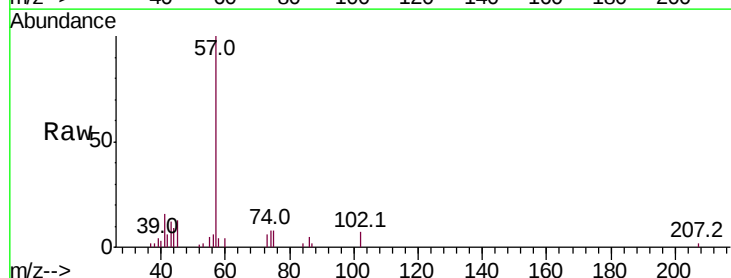
Tgt Ion: 41 Resp: 4398

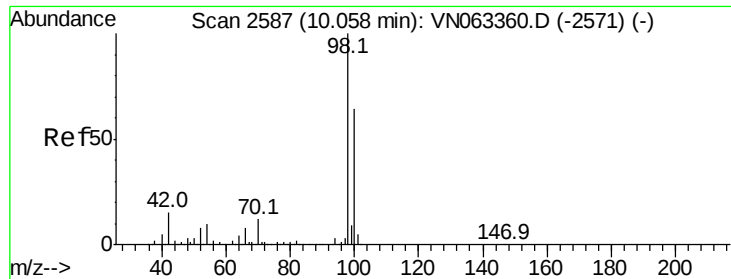
Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

39 36.3 52.9 79.3#





#50

Toluene-d8

Concen: 50.265 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063424.D

Acq: 17 Sep 2020 17:13

Instrument :

MSVOA_N

ClientSampleId :

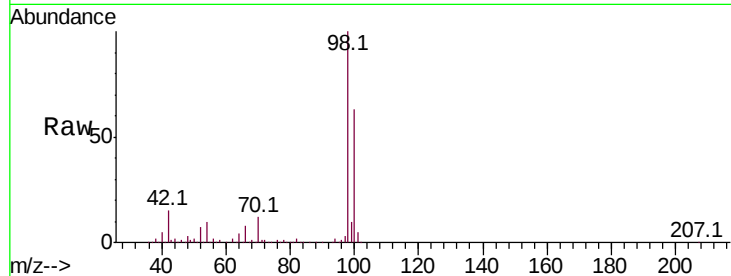
REACTOR-5W-(A-0)

Tot Ion: 98 Resp: 580466

Ion Ratio Lower Upper

98 100

100 62.3 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063360.D (-2571) (-)

10.06

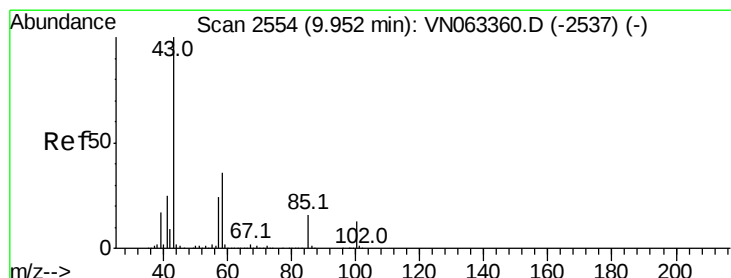
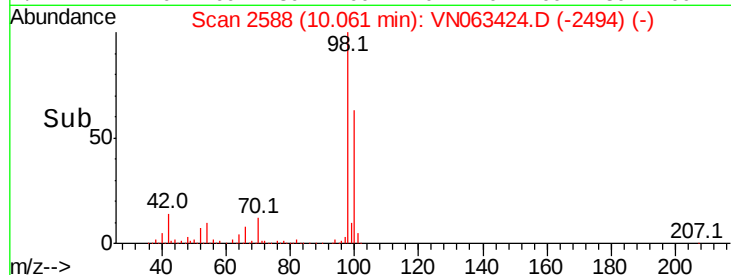
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.750 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063424.D

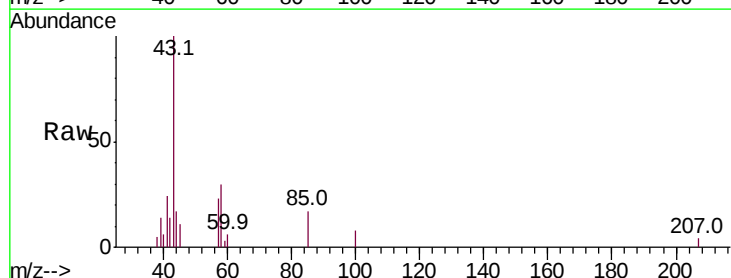
Acq: 17 Sep 2020 17:13

Tgt Ion: 43 Resp: 8128

Ion Ratio Lower Upper

43 100

58 44.3 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) (-)

9.96

25000

20000

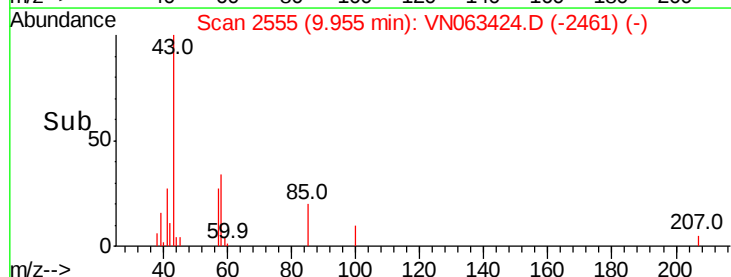
15000

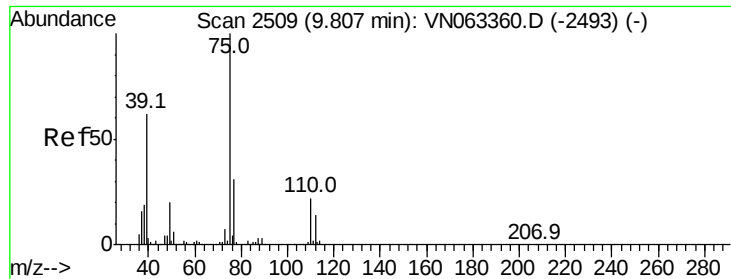
10000

5000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 4.738 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063424.D

Acq: 17 Sep 2020 17:13

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(A-0)

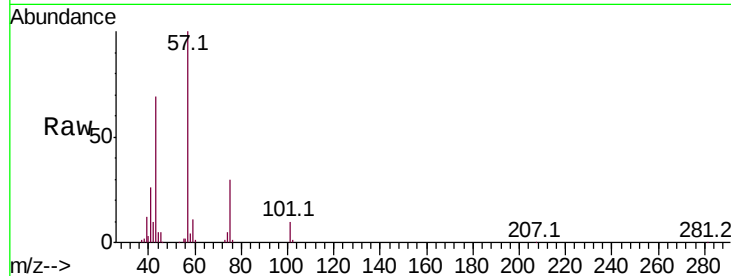
Tot Ion: 75 Resp: 27991

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

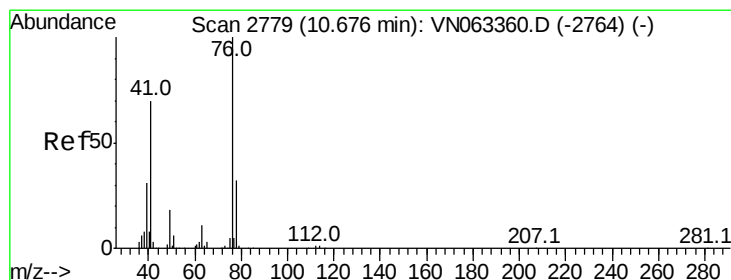
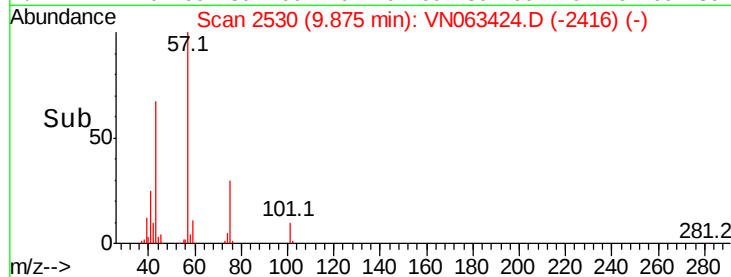
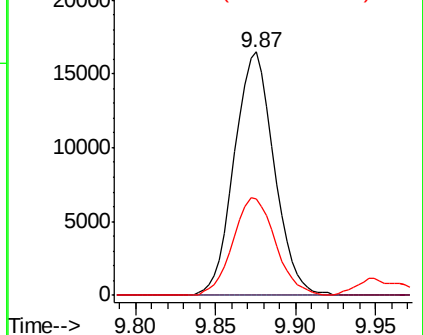
39 39.5 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.424 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063424.D

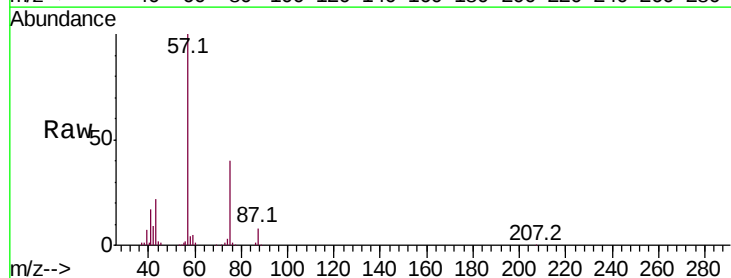
Acq: 17 Sep 2020 17:13

Tgt Ion: 76 Resp: 2461

Ion Ratio Lower Upper

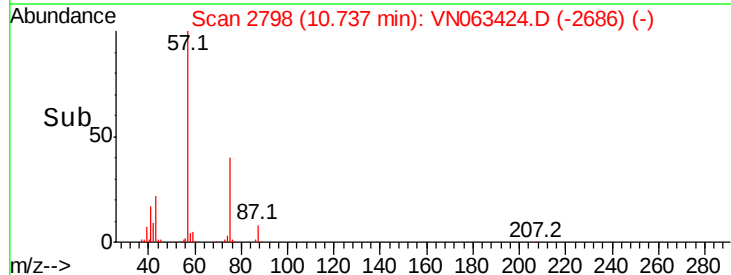
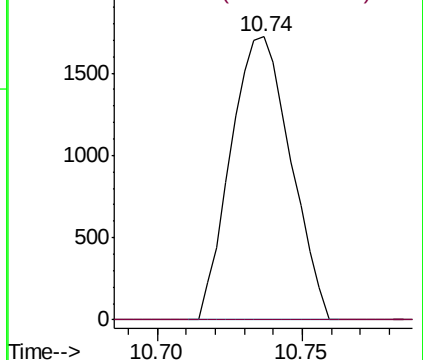
76 100

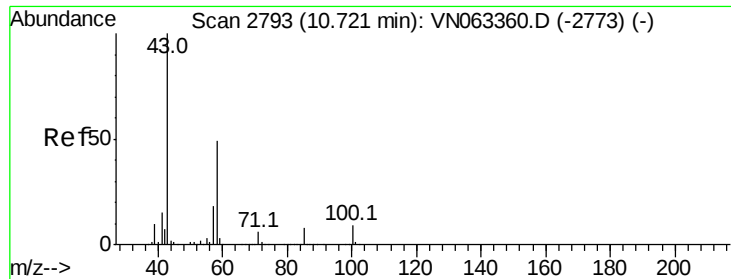
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 12.606 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063424.D

Acq: 17 Sep 2020 17:13

Instrument :

MSVOA_N

ClientSampleId :

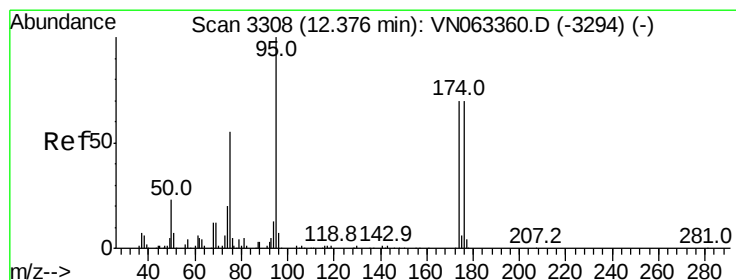
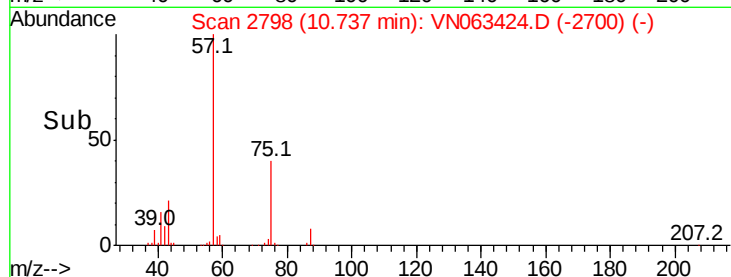
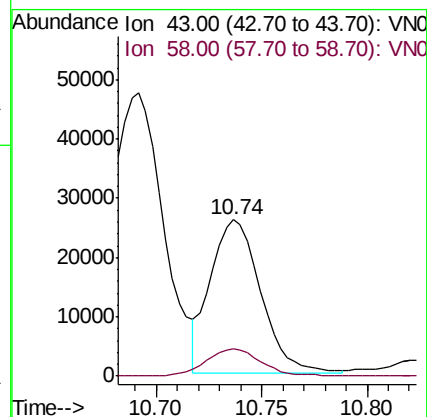
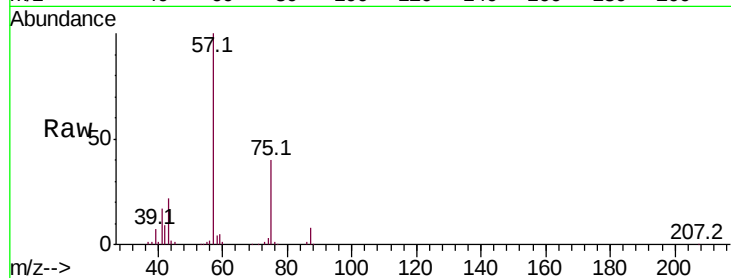
REACTOR-5W-(A-0)

Tot Ion: 43 Resp: 42407

Ion Ratio Lower Upper

43 100

58 19.6 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 52.869 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063424.D

Acq: 17 Sep 2020 17:13

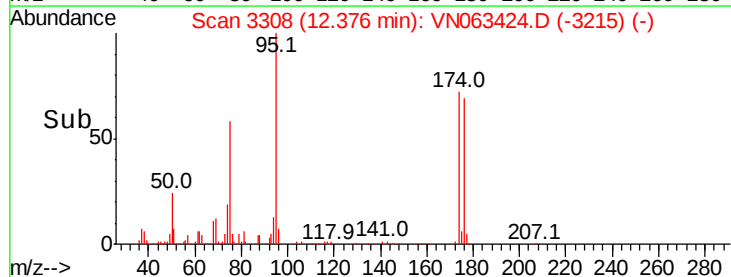
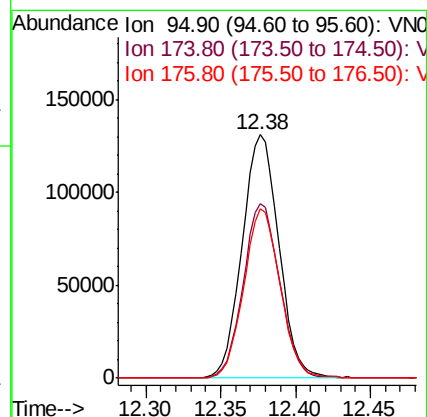
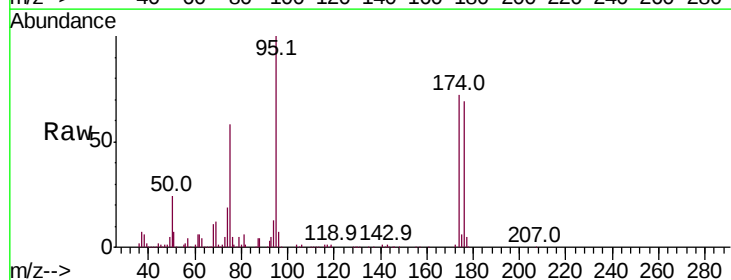
Tgt Ion: 95 Resp: 223812

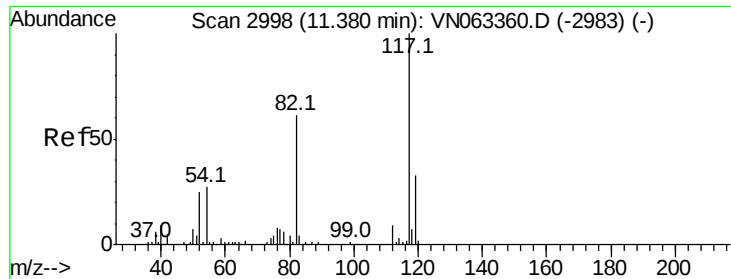
Ion Ratio Lower Upper

95 100

174 71.5 0.0 140.8

176 68.8 0.0 137.6

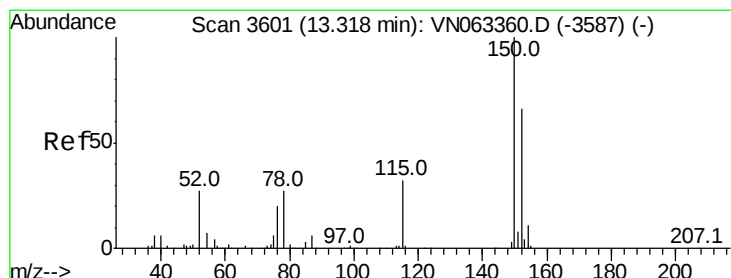
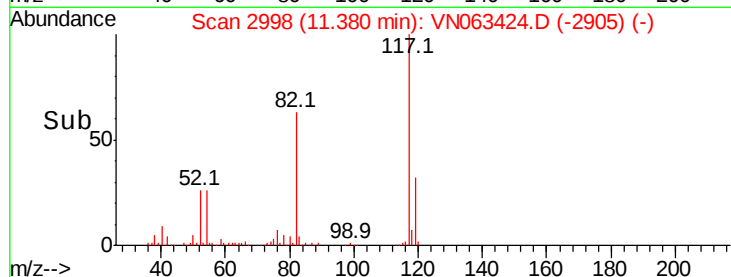
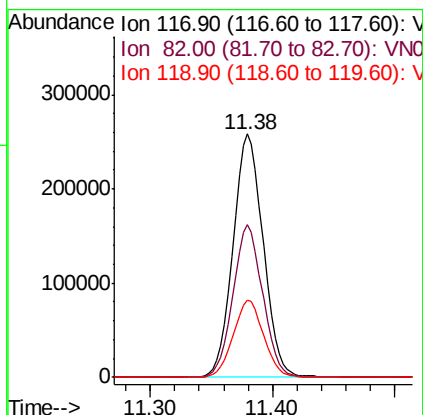
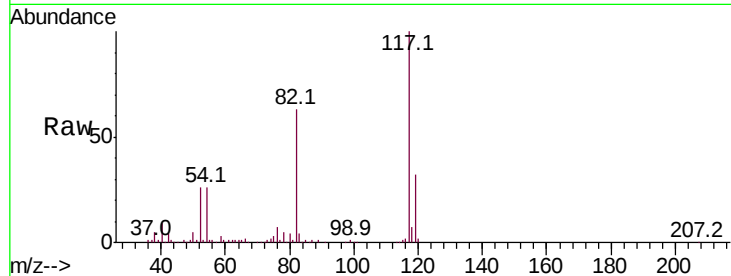




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063424.D
Acq: 17 Sep 2020 17:13

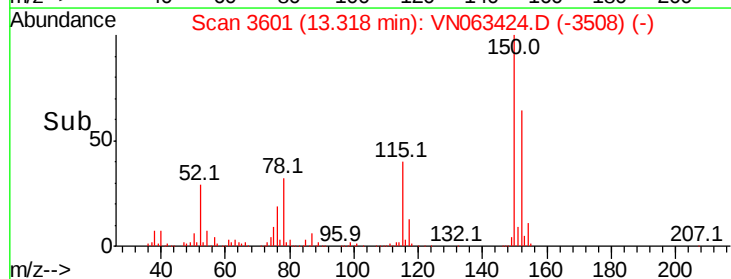
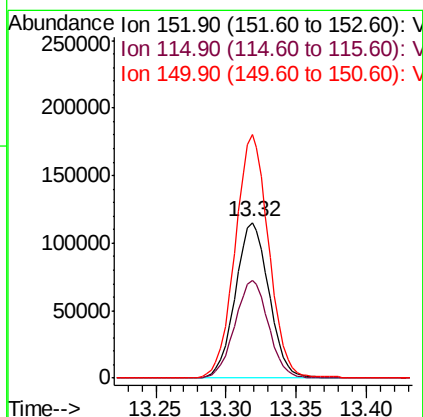
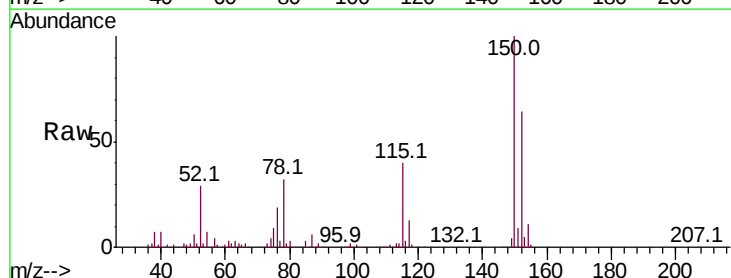
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(A-0)

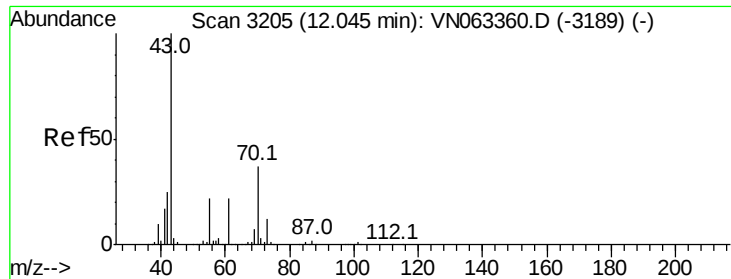
Tot Ion:117 Resp: 442606
Ion Ratio Lower Upper
117 100
82 62.9 49.2 73.8
119 31.8 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063424.D
Acq: 17 Sep 2020 17:13

Tgt Ion:152 Resp: 192895
Ion Ratio Lower Upper
152 100
115 62.7 32.2 96.6
150 155.7 0.0 343.4

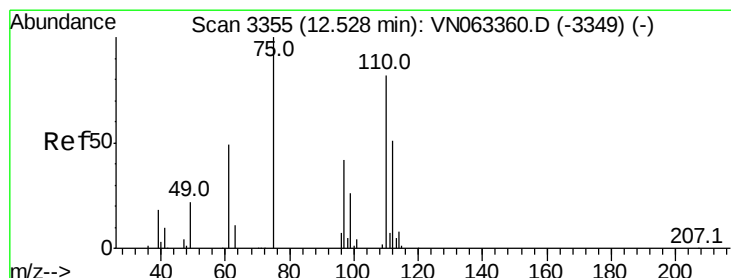
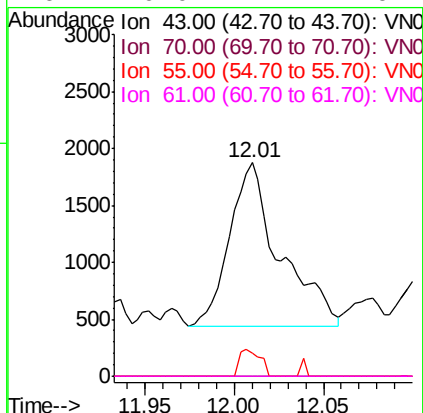
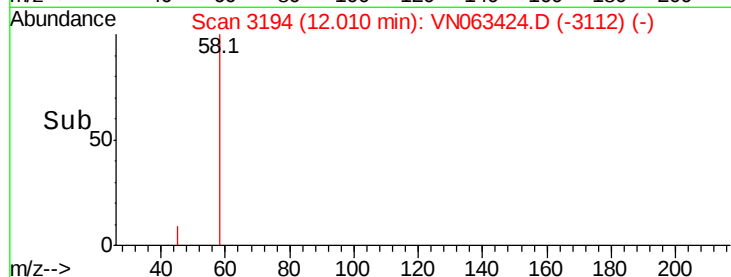
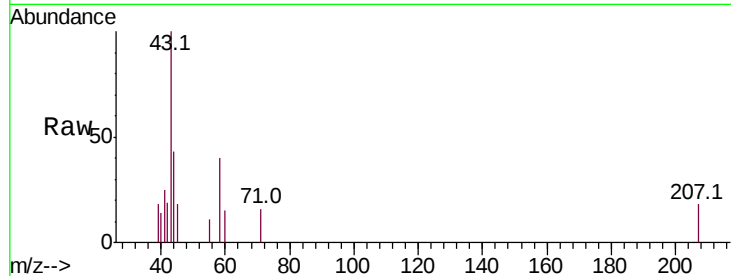




#74
N-amvl acetate
Concen: 0.388 ug/l
RT: 12.01 min Scan# 3194
Delta R.T. -0.04 min
Lab File: VN063424.D
Acq: 17 Sep 2020 17:13

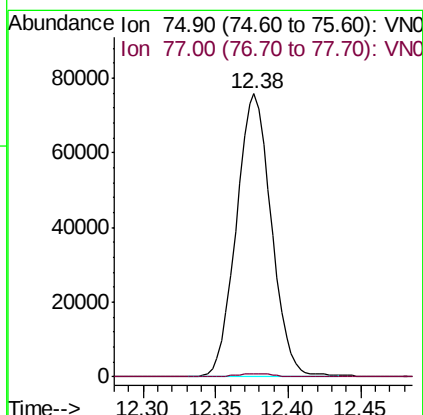
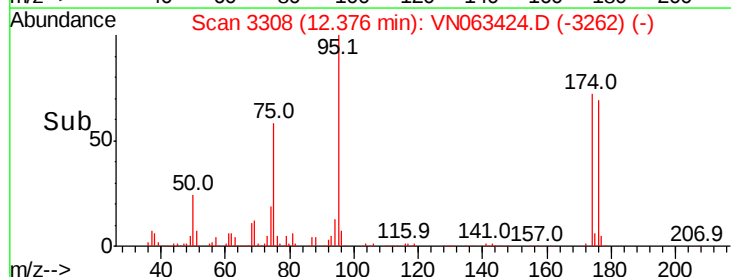
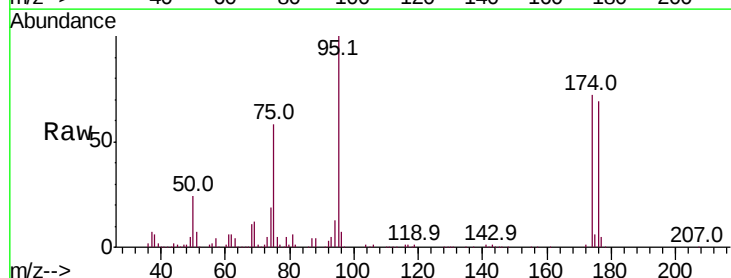
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(A-0)

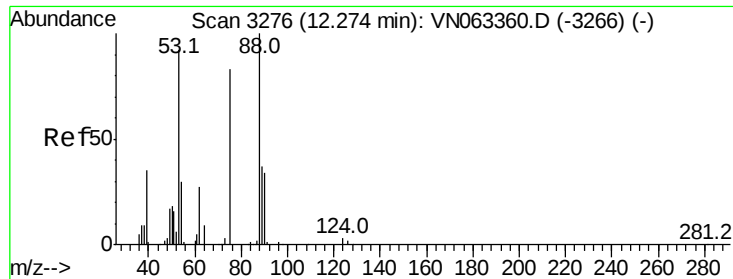
Tot Ion: 43 Resp: 2841
Ion Ratio Lower Upper
43 100
70 0.0 29.6 44.4#
55 6.7 17.7 26.5#
61 0.0 17.4 26.2#



#76
1,2,3-Trichloropropane
Concen: 26.670 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN063424.D
Acq: 17 Sep 2020 17:13

Tgt Ion: 75 Resp: 127334
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 73.119 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063424.D

Acq: 17 Sep 2020 17:13

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(A-0)

Tot Ion: 75 Resp: 127334

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

