

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091720\
 Data File : VN063427.D
 Acq On : 17 Sep 2020 18:25
 Operator : JC/MD
 Sample : L4015-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

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

Quant Time: Sep 18 02:51:43 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	225628	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	429002	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	424993	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	181855	50.00	ug/l	0.00

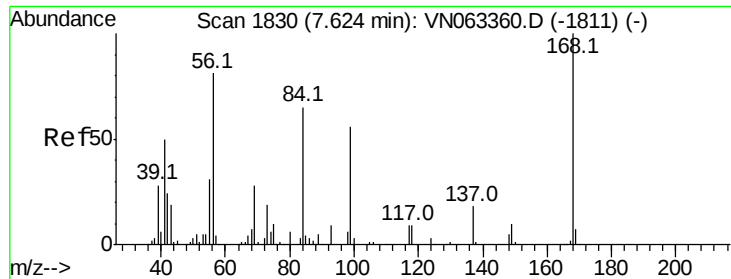
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	189649	49.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.76%	
35) Dibromofluoromethane	7.55	113	136959	46.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.24%	
50) Toluene-d8	10.06	98	553710	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
62) 4-Bromofluorobenzene	12.38	95	220291	53.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.62%	

Target Compounds

						Qvalue
16) Acetone	3.78	43	14492	11.740	ug/l	95
18) Methyl Acetate	4.29	43	5407	1.725	ug/l #	87
20) Methylene Chloride	4.51	84	14198	4.540	ug/l	90
25) 2-Butanone	6.79	43	2520	1.327	ug/l #	84
29) Tetrahydrofuran	7.16	42	699	0.539	ug/l #	59
31) Cyclohexane	7.62	56	6746	1.272	ug/l #	20
36) 1,1-Dichloropropene	7.62	75	21682	4.744	ug/l #	50
38) Carbon Tetrachloride	7.63	117	26353	5.648	ug/l #	17
41) Methacrylonitrile	7.17	41	674	0.334	ug/l #	100
43) Isopropyl Acetate	8.13	43	75286	9.386	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1349	0.380	ug/l #	43
48) Methyl methacrylate	9.14	41	4528	1.149	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	9421	2.098	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	31927	5.588	ug/l #	63
56) Ethyl methacrylate	10.51	69	1156	0.238	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4889	0.870	ug/l #	42
59) 2-Hexanone	10.74	43	76861	23.627	ug/l #	54
74) N-amyl acetate	12.01	43	3032	0.440	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	122396	27.192	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	122396	74.550	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063427.D

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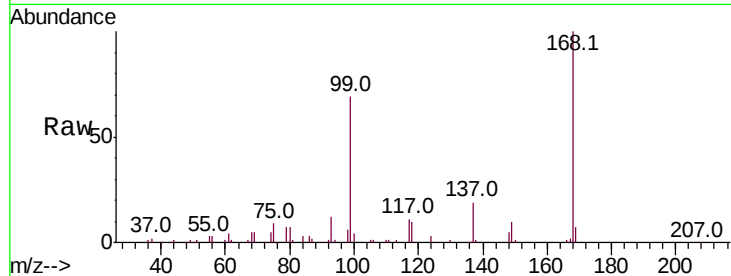
REACTOR-5W-(D-0)

Tot Ion:168 Resp: 225628

Ion Ratio Lower Upper

168 100

99 69.0 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

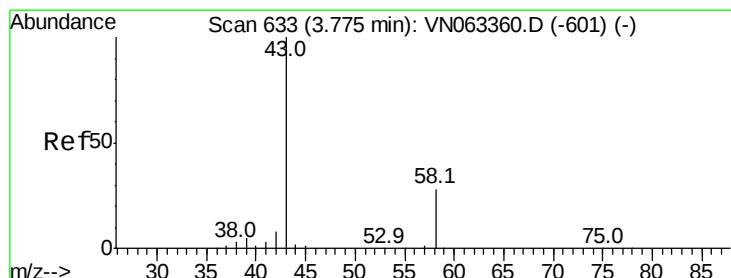
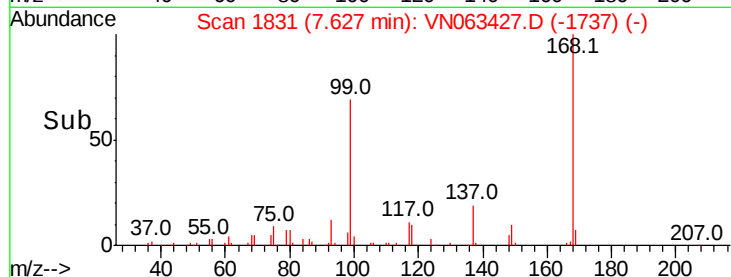
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 11.740 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063427.D

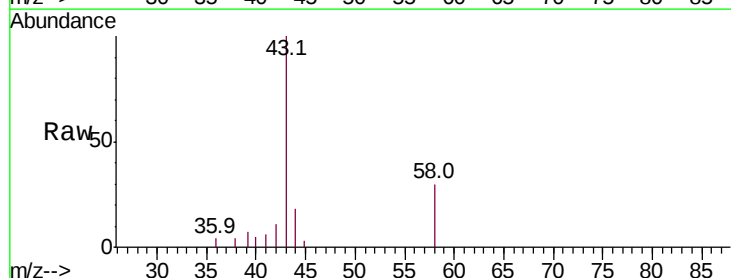
Acq: 17 Sep 2020 18:25

Tgt Ion: 43 Resp: 14492

Ion Ratio Lower Upper

43 100

58 30.3 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.78

6000

5000

4000

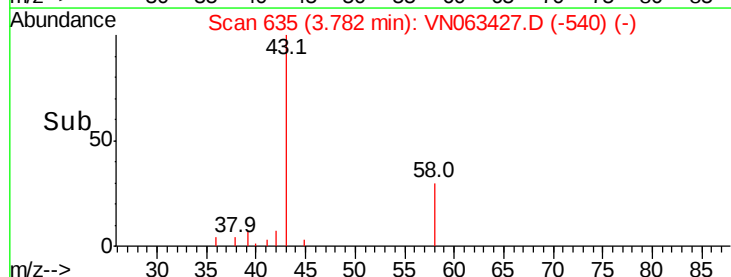
3000

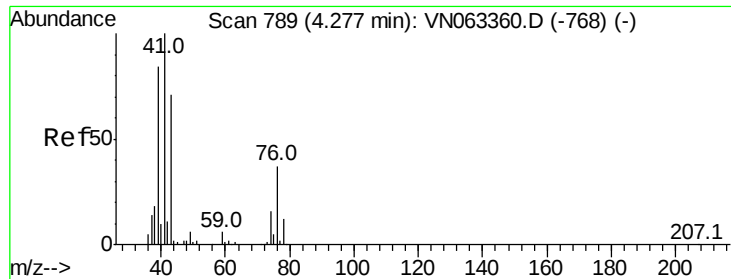
2000

1000

0

Time--> 3.70 3.75 3.80 3.85 3.90

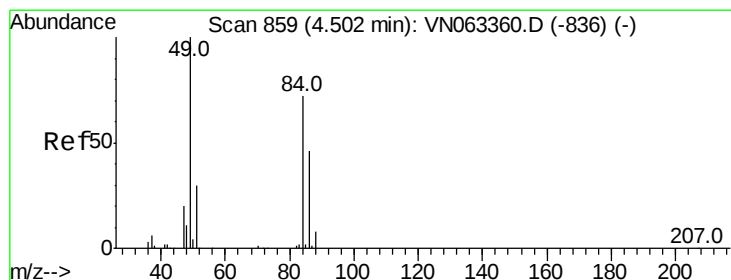
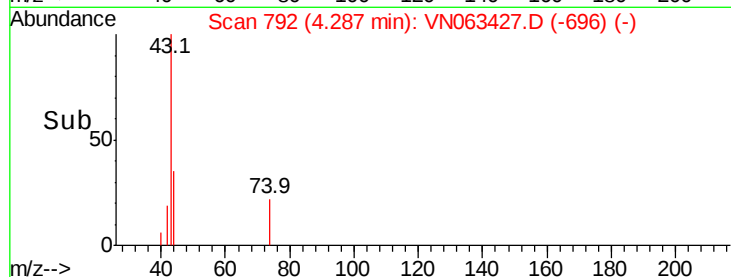
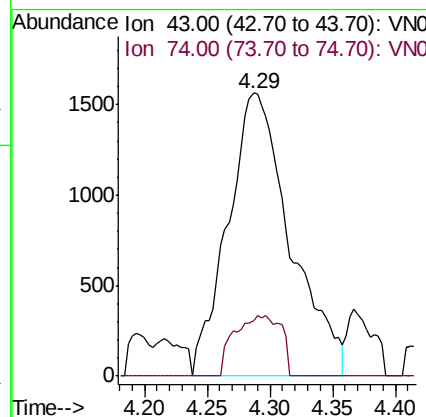
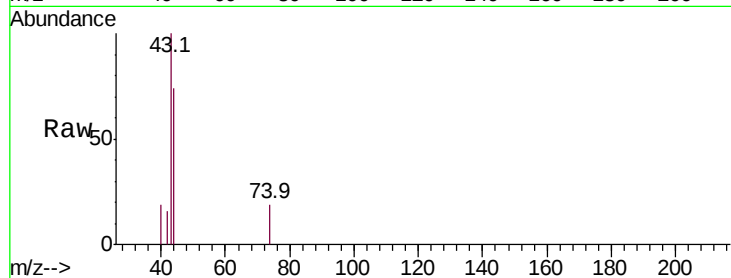




#18
Methyl Acetate
Concen: 1.725 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063427.D
Acq: 17 Sep 2020 18:25

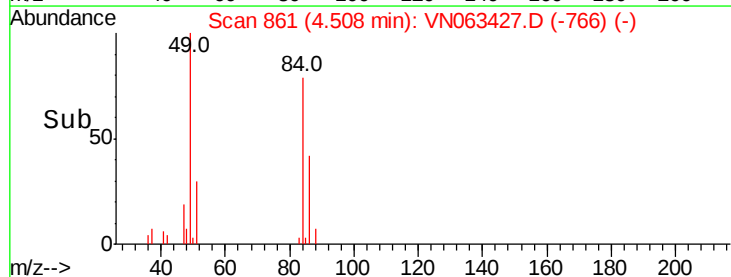
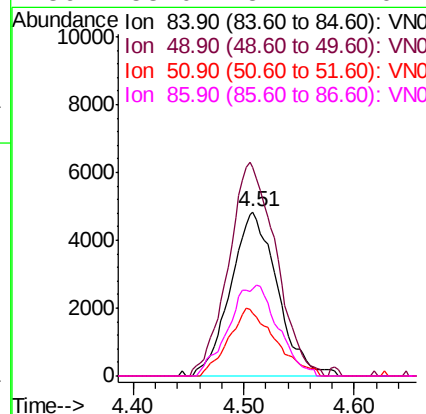
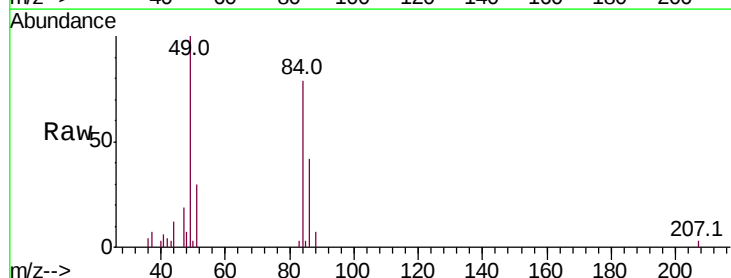
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(D-0)

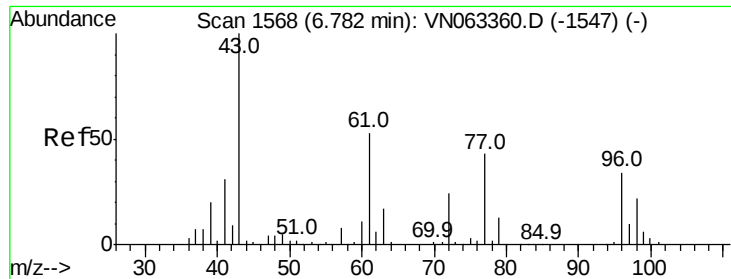
Tot Ion: 43 Resp: 5407
Ion Ratio Lower Upper
43 100
74 15.8 17.4 26.2#



#20
Methylene Chloride
Concen: 4.540 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063427.D
Acq: 17 Sep 2020 18:25

Tgt Ion: 84 Resp: 14198
Ion Ratio Lower Upper
84 100
49 126.8 110.7 166.1
51 38.3 32.9 49.3
86 53.0 51.1 76.7

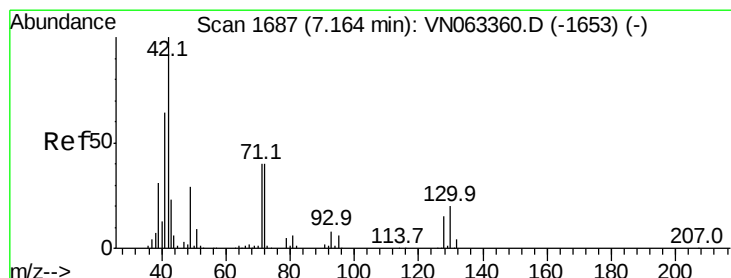
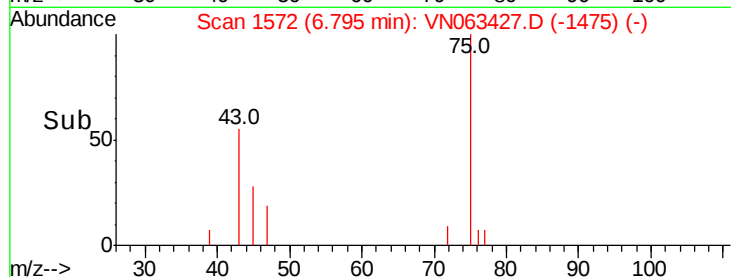
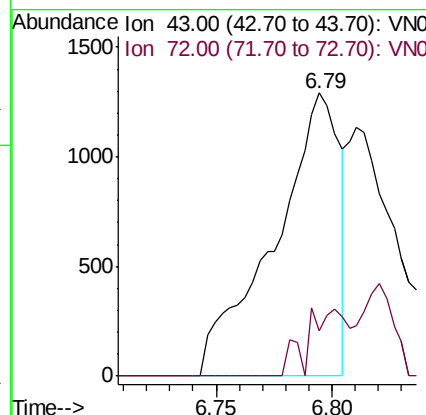
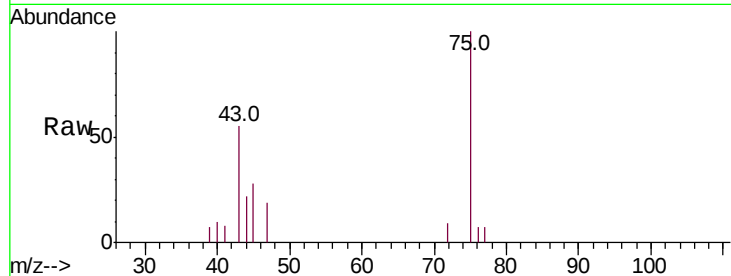




#25
2-Butanone
Concen: 1.327 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063427.D
Acq: 17 Sep 2020 18:25

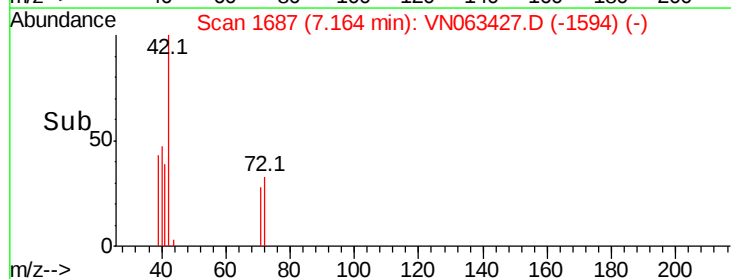
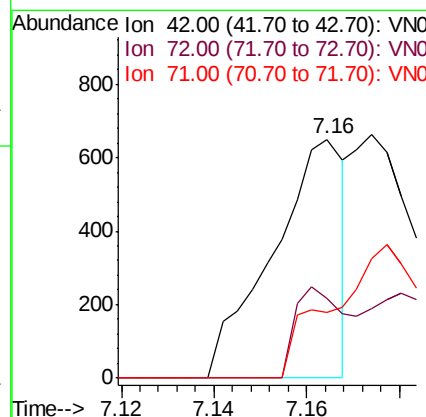
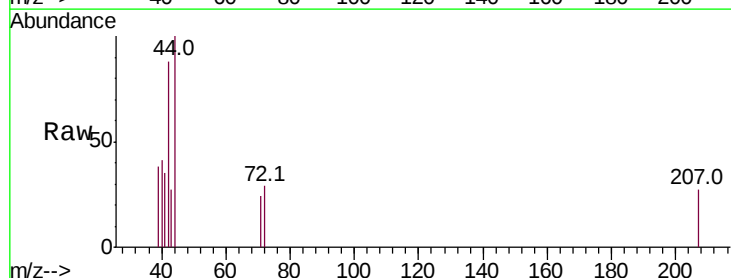
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(D-0)

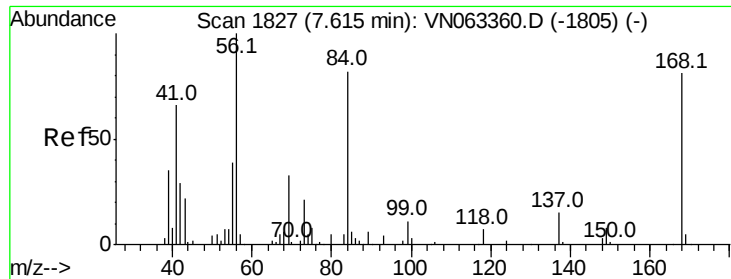
Tot Ion: 43 Resp: 2520
Ion Ratio Lower Upper
43 100
72 16.1 19.2 28.8#



#29
Tetrahydrofuran
Concen: 0.539 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. -0.00 min
Lab File: VN063427.D
Acq: 17 Sep 2020 18:25

Tgt Ion: 42 Resp: 699
Ion Ratio Lower Upper
42 100
72 28.0 32.1 48.1#
71 0.0 31.2 46.8#

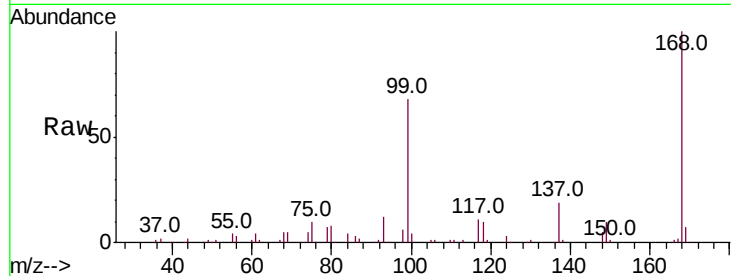




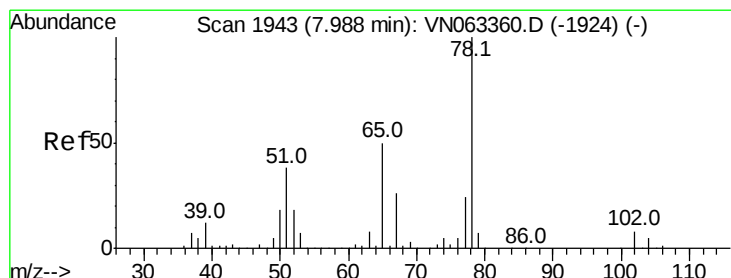
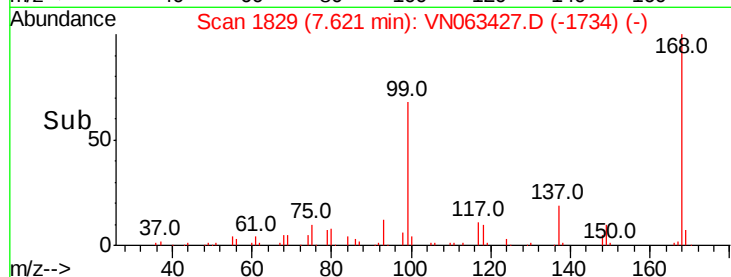
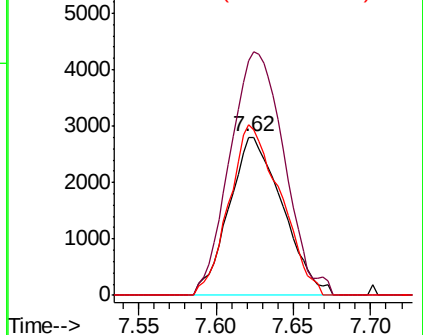
#31
Cyclohexane
Concen: 1.272 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN063427.D
Acq: 17 Sep 2020 18:25

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

Tot Ion: 56 Resp: 6746
Ion Ratio Lower Upper
56 100
69 148.4 26.1 39.1#
84 108.0 65.4 98.2#

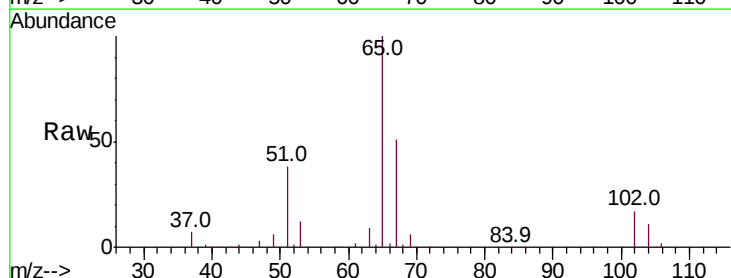


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

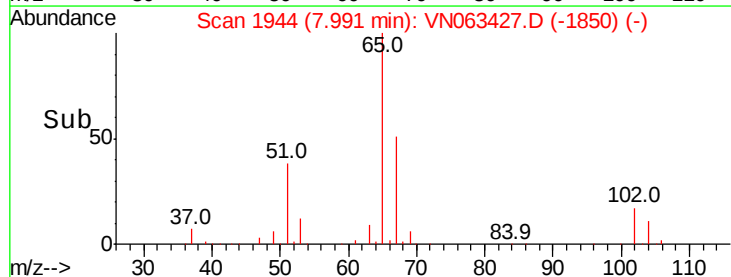
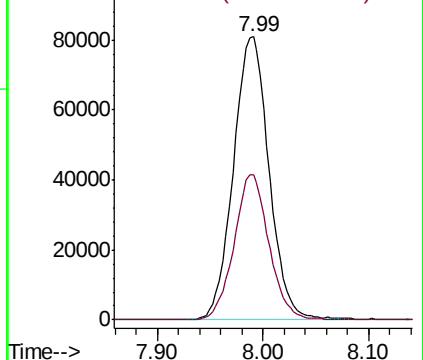


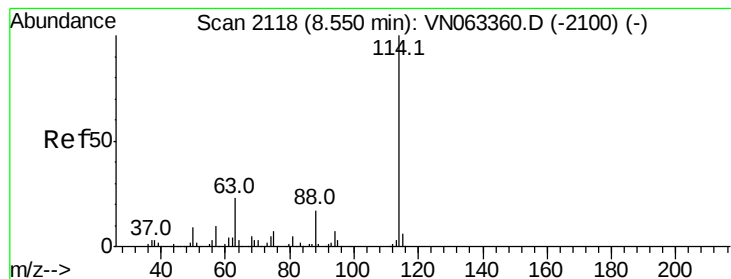
#33
1,2-Dichloroethane-d4
Concen: 49.378 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN063427.D
Acq: 17 Sep 2020 18:25

Tgt Ion: 65 Resp: 189649
Ion Ratio Lower Upper
65 100
67 50.3 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: VN063427.D

Acq: 17 Sep 2020 18:25

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(D-0)

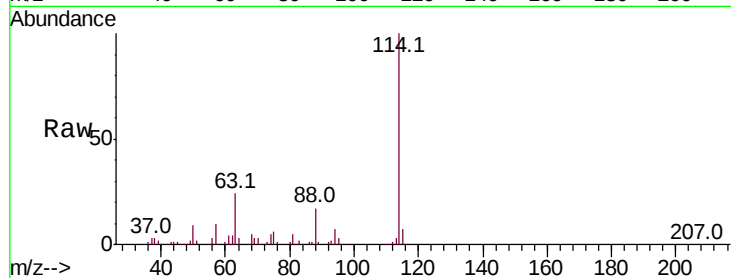
Tot Ion:114 Resp: 429002

Ion Ratio Lower Upper

114 100

63 24.0 0.0 46.4

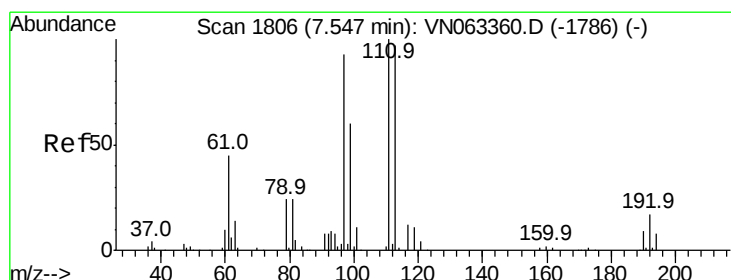
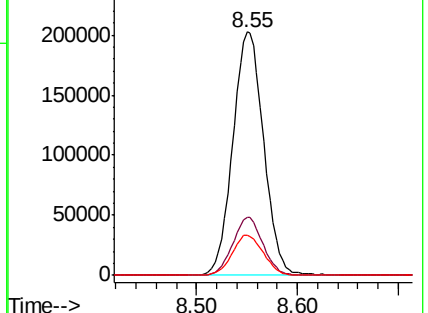
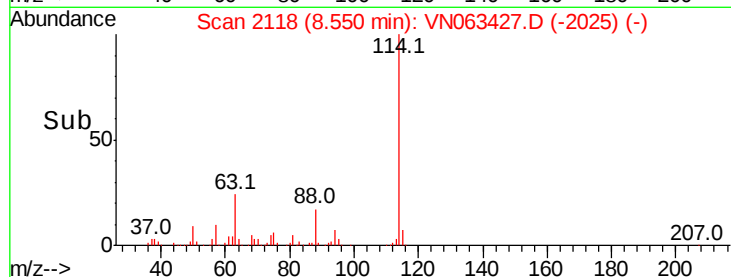
88 16.6 0.0 33.2



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: 46.116 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063427.D

Acq: 17 Sep 2020 18:25

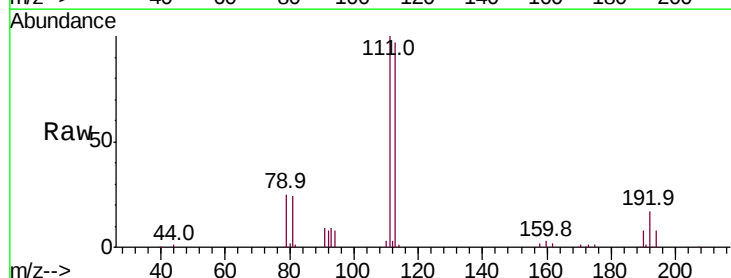
Tgt Ion:113 Resp: 136959

Ion Ratio Lower Upper

113 100

111 104.0 82.9 124.3

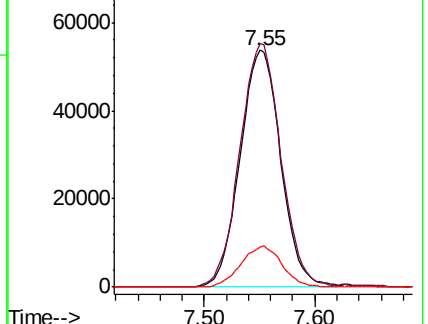
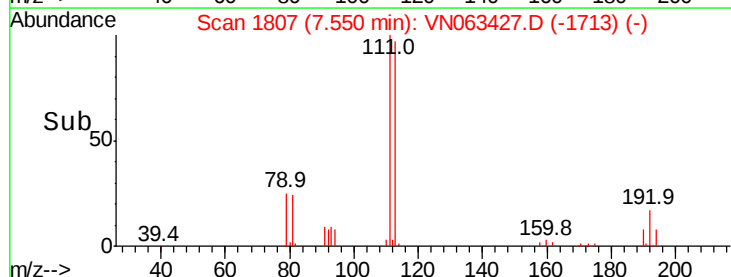
192 17.6 13.9 20.9

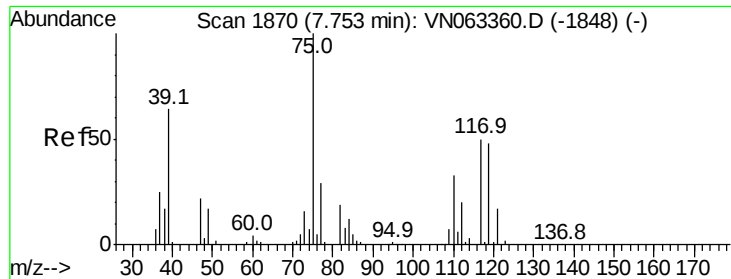


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

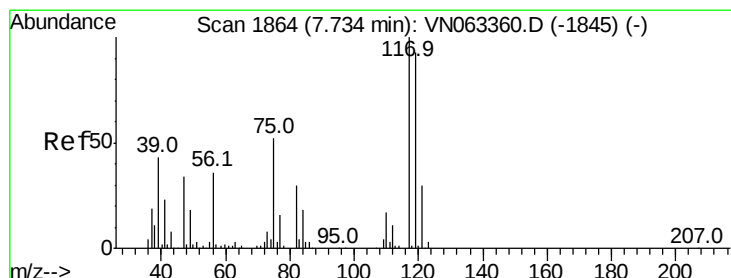
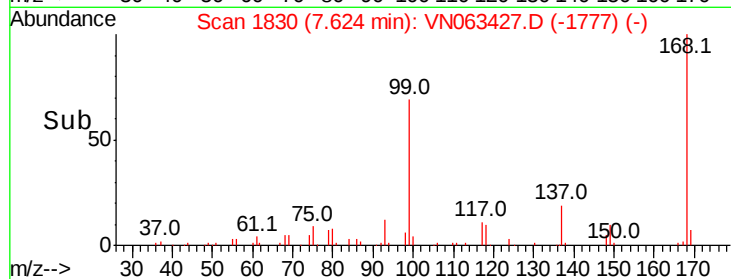
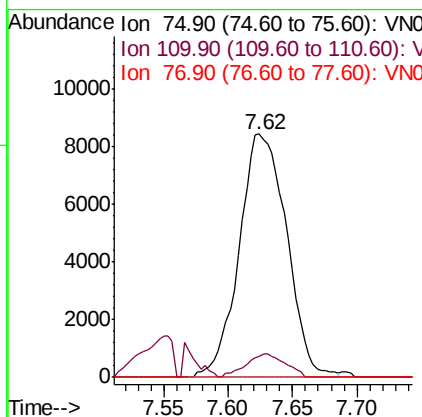
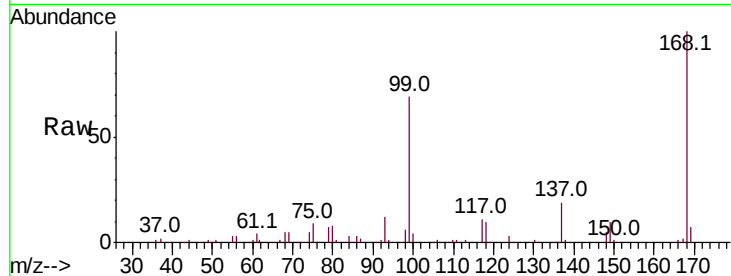




#36
 1,1-Dichloropropene
 Concen: 4.744 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063427.D
 Acq: 17 Sep 2020 18:25

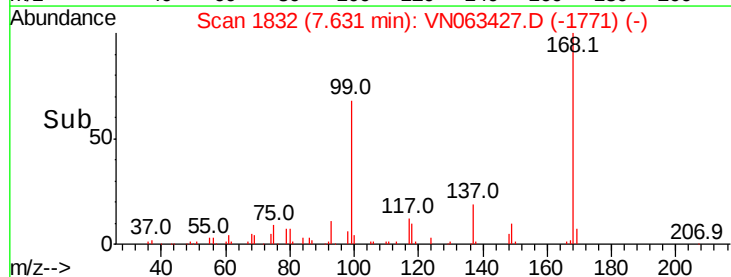
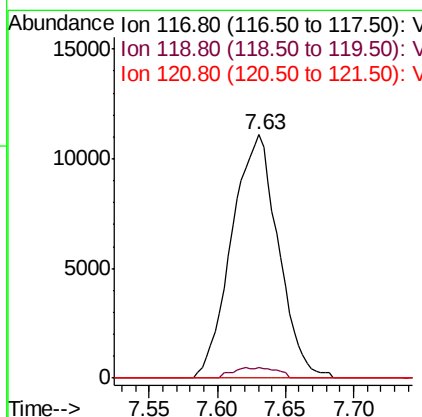
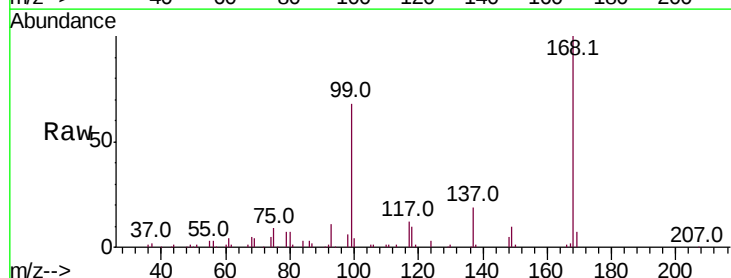
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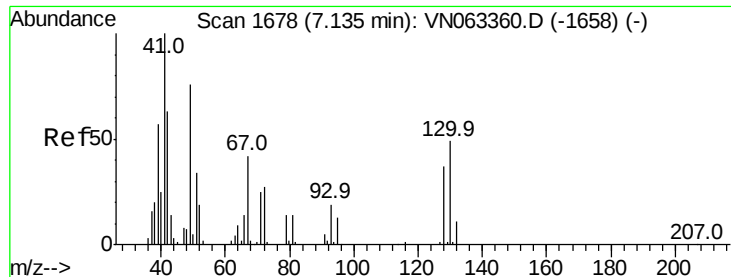
Tot Ion: 75 Resp: 21682
 Ion Ratio Lower Upper
 75 100
 110 7.9 16.5 49.5#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 5.648 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.10 min
 Lab File: VN063427.D
 Acq: 17 Sep 2020 18:25

Tgt Ion: 117 Resp: 26353
 Ion Ratio Lower Upper
 117 100
 119 4.2 74.5 111.7#
 121 0.0 24.1 36.1#

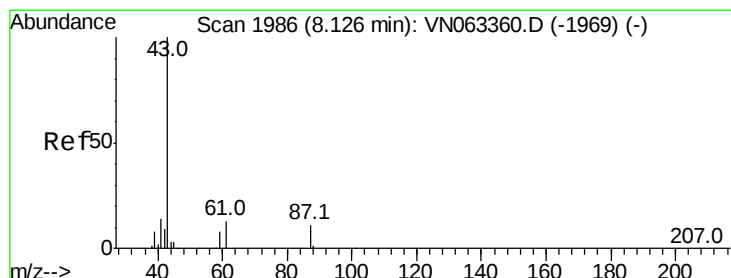
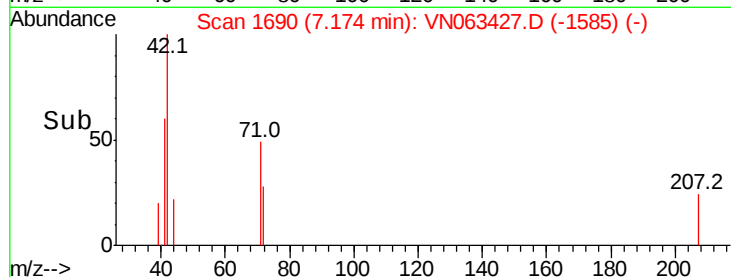
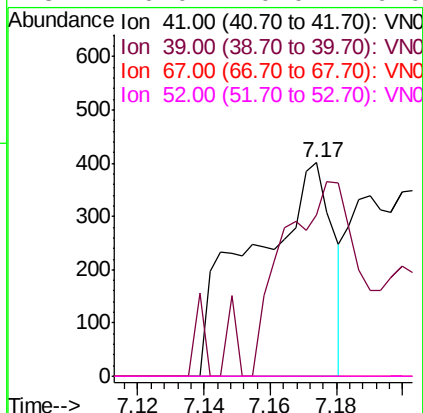
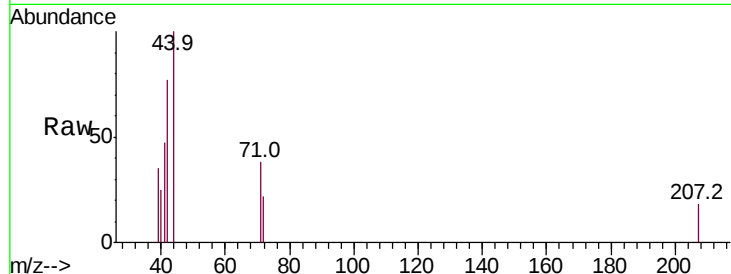




#41
Methacrylonitrile
Concen: 0.334 ug/l
RT: 7.17 min Scan# 1690
Delta R.T. 0.04 min
Lab File: VN063427.D
Acq: 17 Sep 2020 18:25

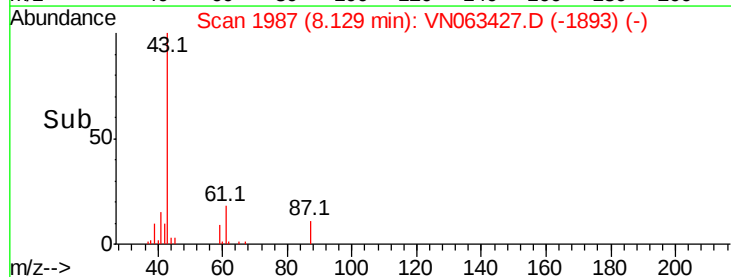
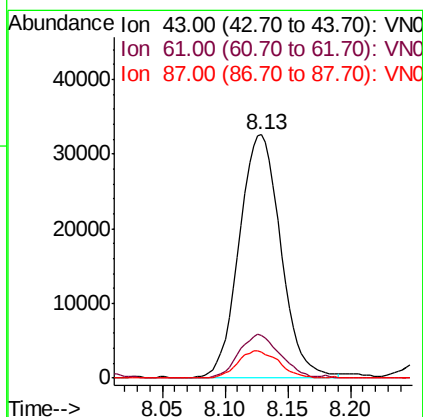
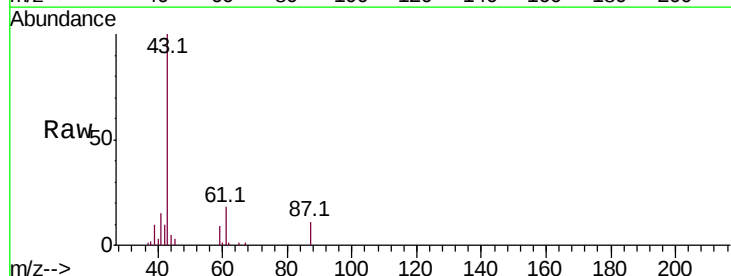
Instrument :
MSVOA_N
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REACTOR-5W-(D-0)

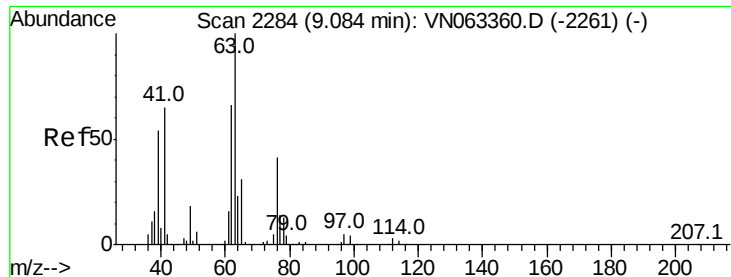
Tot Ion:	41	Resp:	674
Ion	Ratio	Lower	Upper
41	100		
39	82.6	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 9.386 ug/l
RT: 8.13 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN063427.D
Acq: 17 Sep 2020 18:25

Tgt Ion:	43	Resp:	75286
Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.2	21.2
87	10.9	9.0	13.6





#45

1,2-Dichloropropane

Concen: 0.380 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063427.D

Acq: 17 Sep 2020 18:25

Instrument :

MSVOA_N

ClientSampleId :

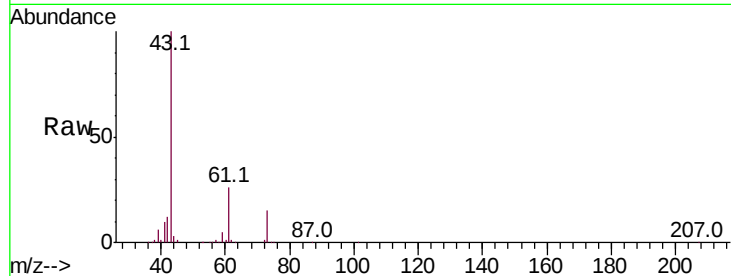
REACTOR-5W-(D-0)

Tot Ion: 63 Resp: 1349

Ion Ratio Lower Upper

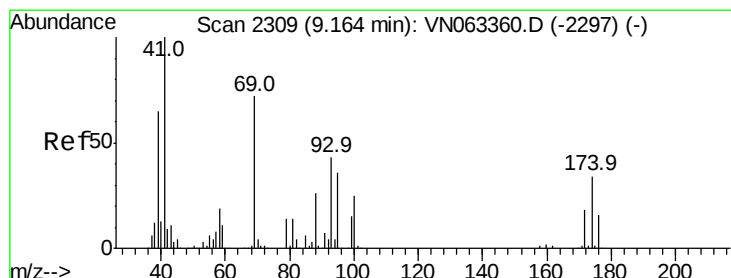
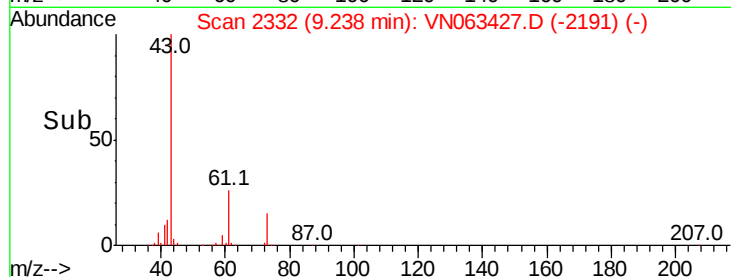
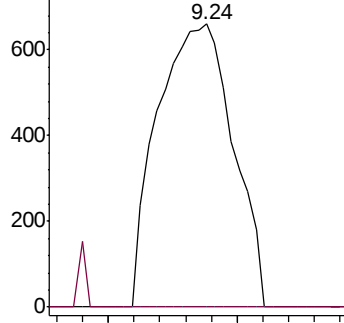
63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.149 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063427.D

Acq: 17 Sep 2020 18:25

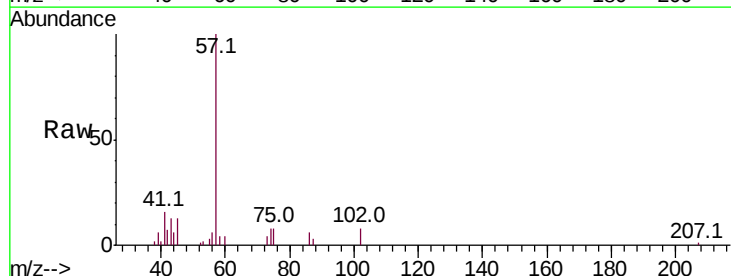
Tgt Ion: 41 Resp: 4528

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

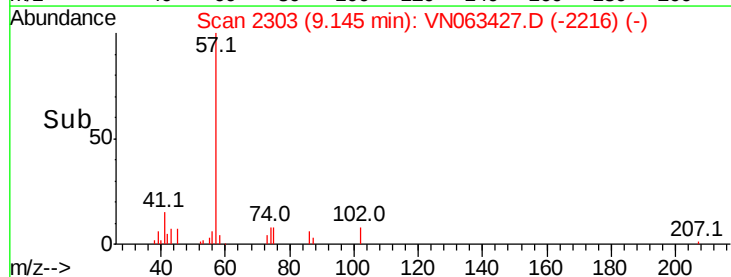
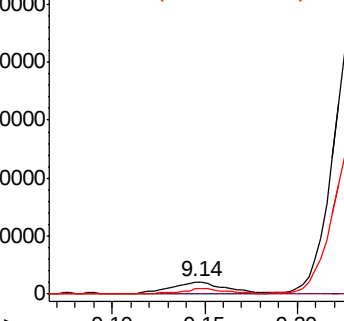
39 0.0 52.9 79.3#

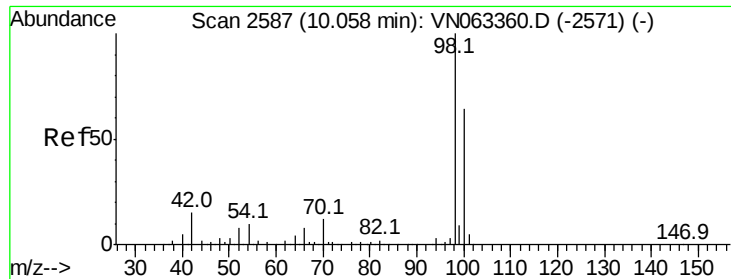


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 49.583 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063427.D

Acq: 17 Sep 2020 18:25

Instrument :

MSVOA_N

ClientSampleId :

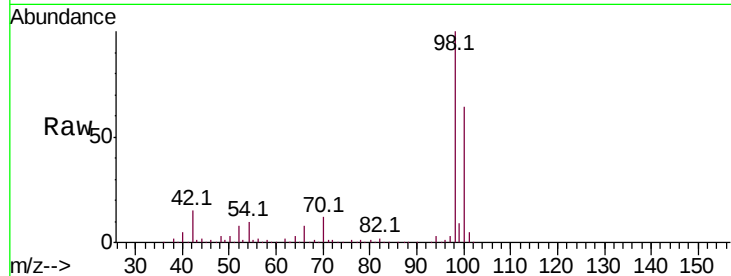
REACTOR-5W-(D-0)

Tot Ion: 98 Resp: 553710

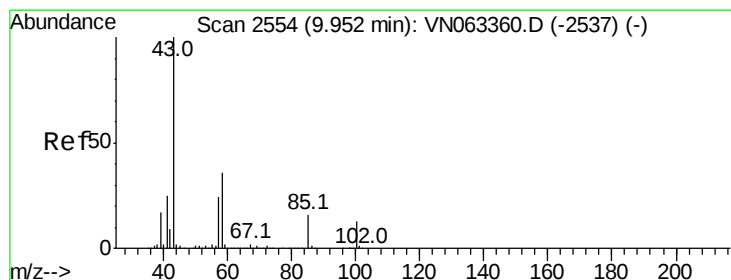
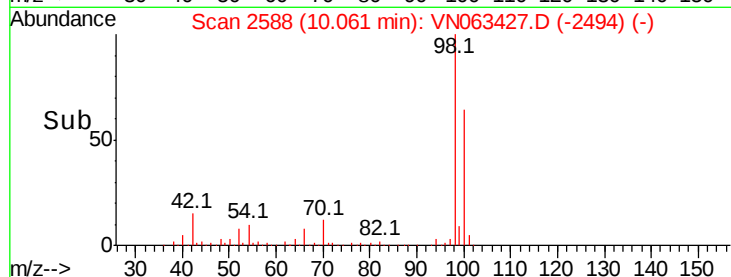
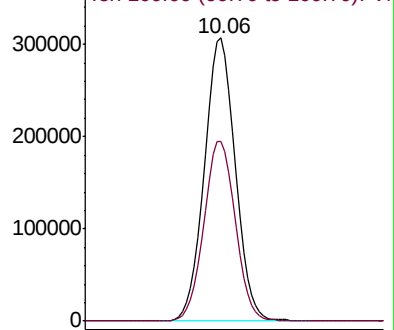
Ion Ratio Lower Upper

98 100

100 64.7 50.7 76.1



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



#51

4-Methyl-2-Pentanone

Concen: 2.098 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063427.D

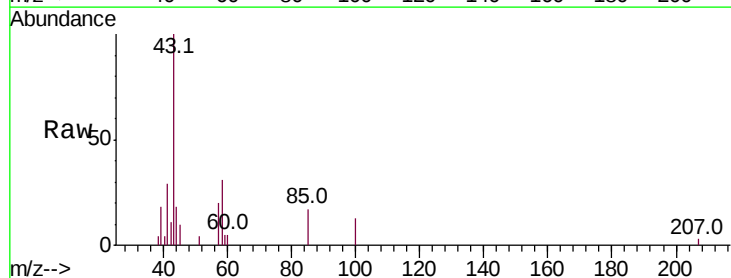
Acq: 17 Sep 2020 18:25

Tgt Ion: 43 Resp: 9421

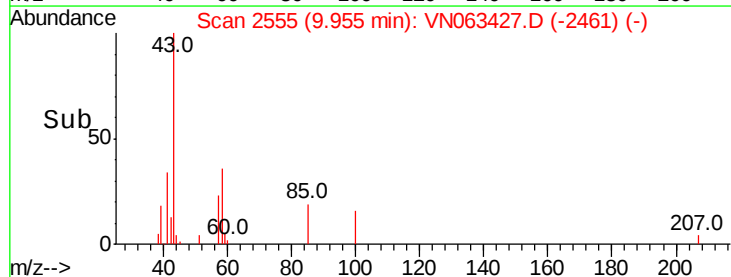
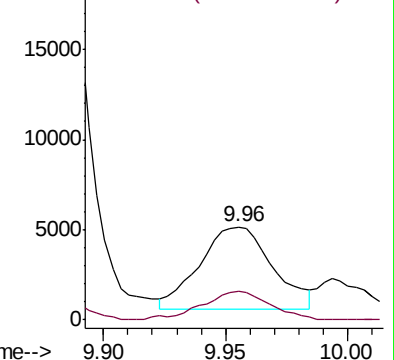
Ion Ratio Lower Upper

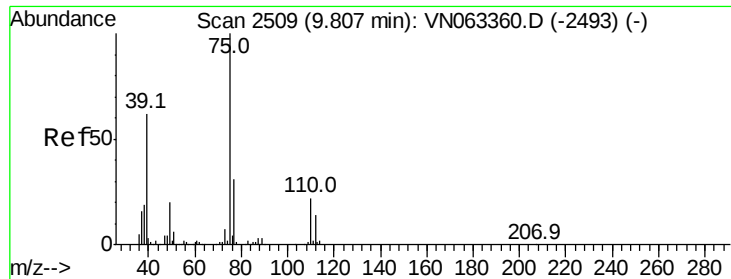
43 100

58 32.2 29.0 43.6



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





#54

cis-1,3-Dichloropropene

Concen: 5.588 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063427.D

Acq: 17 Sep 2020 18:25

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(D-0)

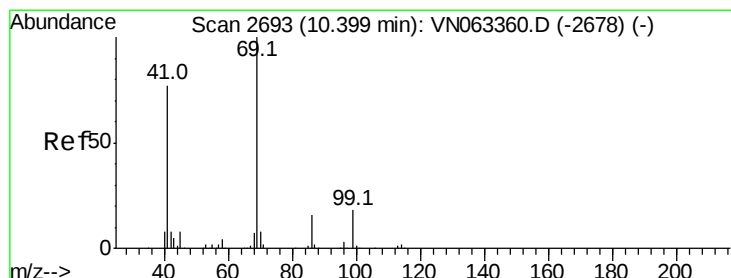
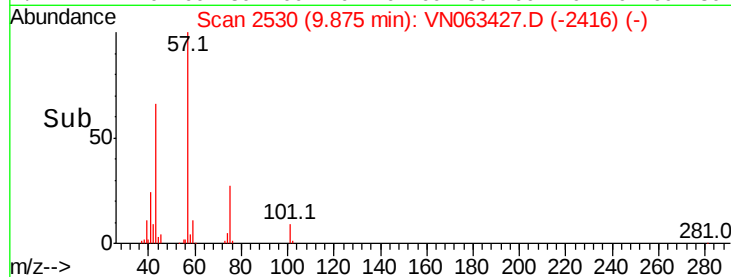
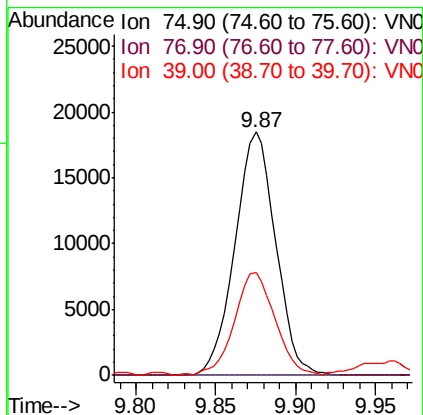
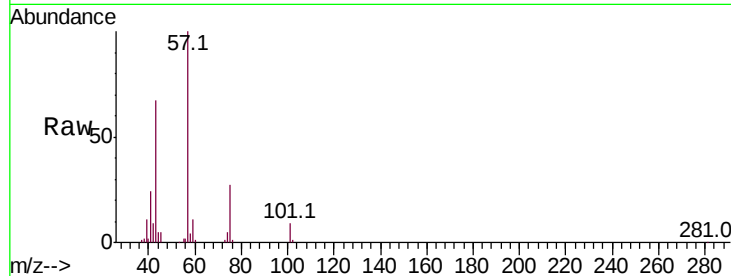
Tot Ion: 75 Resp: 31927

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 41.2 49.8 74.8#



#56

Ethyl methacrylate

Concen: 0.238 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063427.D

Acq: 17 Sep 2020 18:25

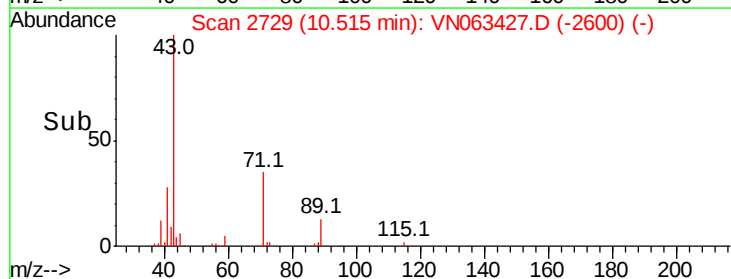
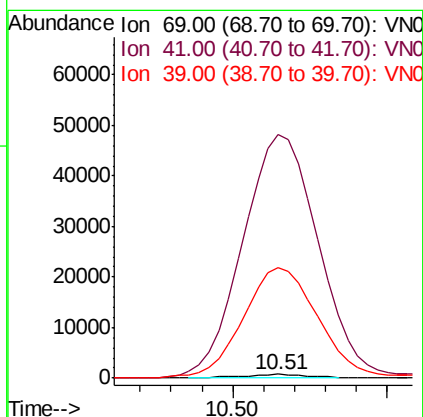
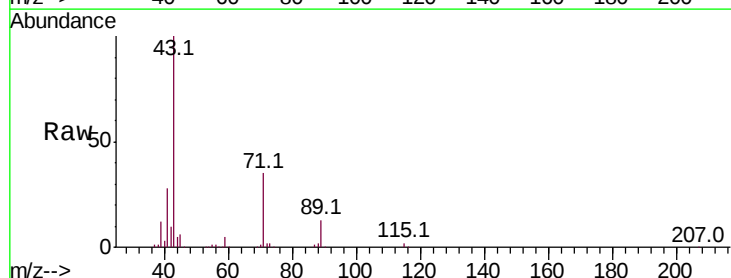
Tgt Ion: 69 Resp: 1156

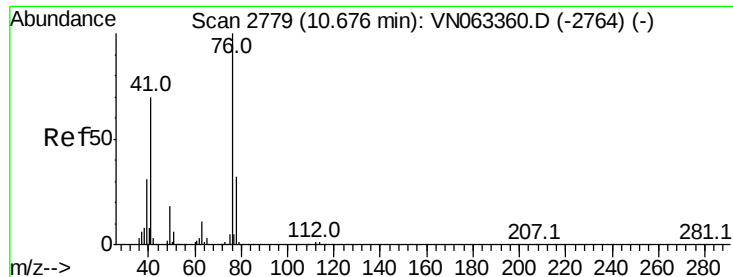
Ion Ratio Lower Upper

69 100

41 7152.8 61.0 91.6#

39 3237.0 39.2 58.8#





#57

1,3-Dichloropropane

Concen: 0.870 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063427.D

Acq: 17 Sep 2020 18:25

Instrument :

MSVOA_N

ClientSampleId :

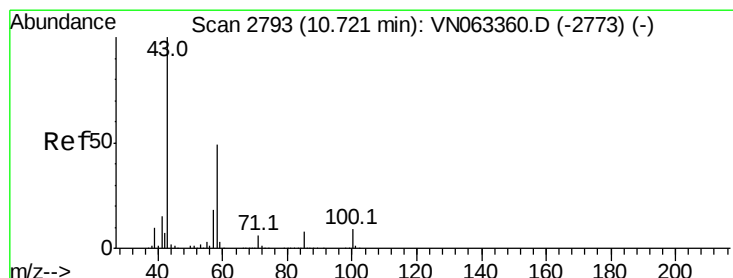
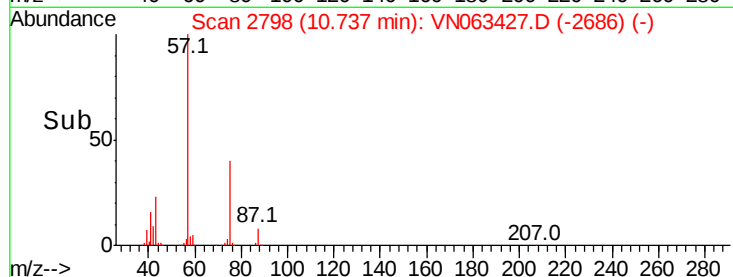
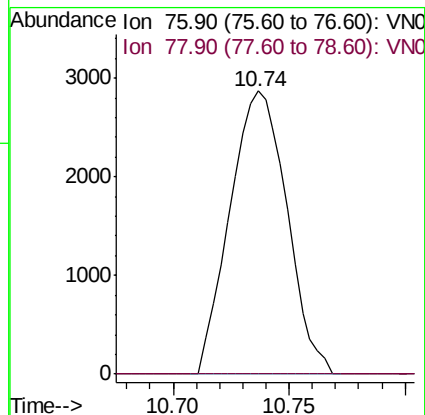
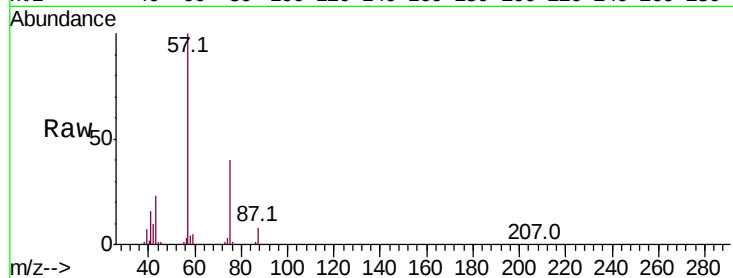
REACTOR-5W-(D-0)

Tot Ion: 76 Resp: 4889

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 23.627 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063427.D

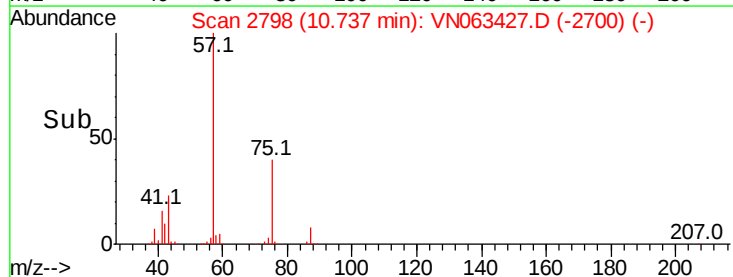
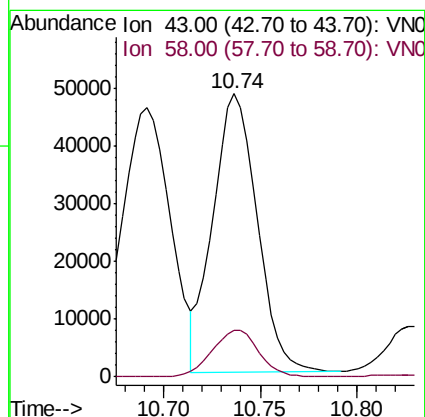
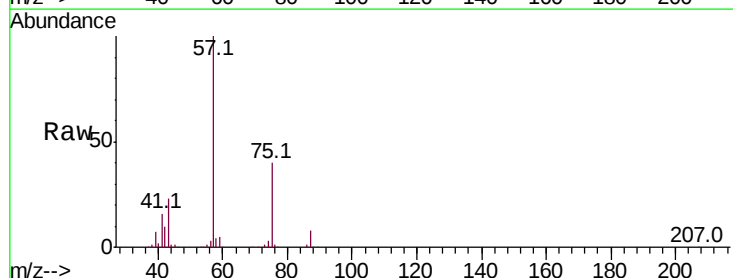
Acq: 17 Sep 2020 18:25

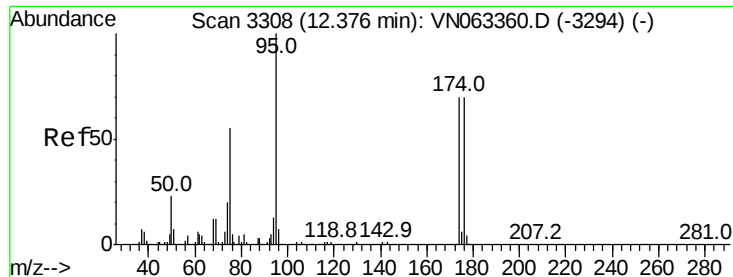
Tgt Ion: 43 Resp: 76861

Ion Ratio Lower Upper

43 100

58 17.7 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 53.812 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063427.D

Acq: 17 Sep 2020 18:25

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(D-0)

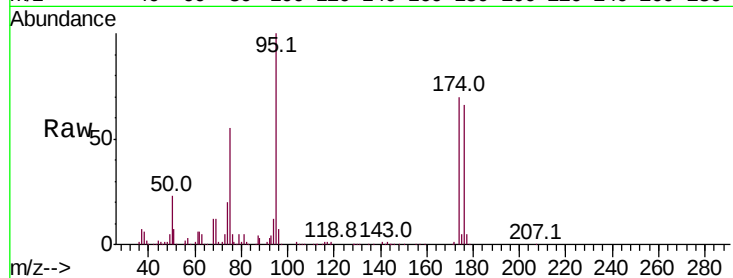
Tot Ion: 95 Resp: 220291

Ion Ratio Lower Upper

95 100

174 70.0 0.0 140.8

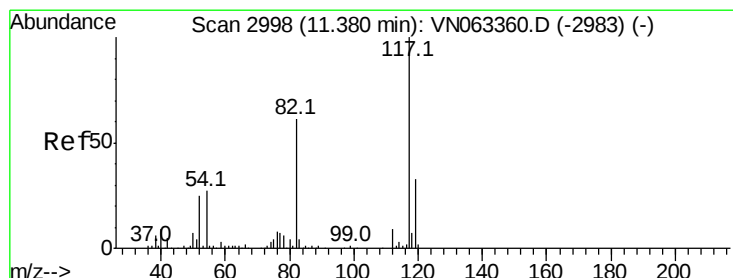
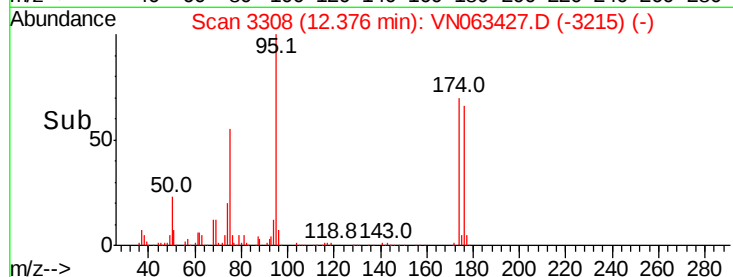
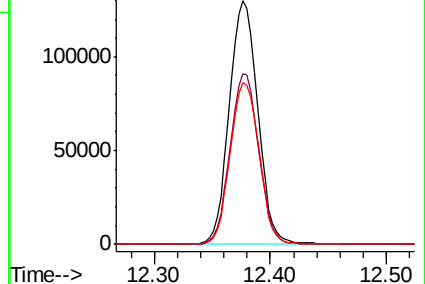
176 67.3 0.0 137.6



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: VN063427.D

Acq: 17 Sep 2020 18:25

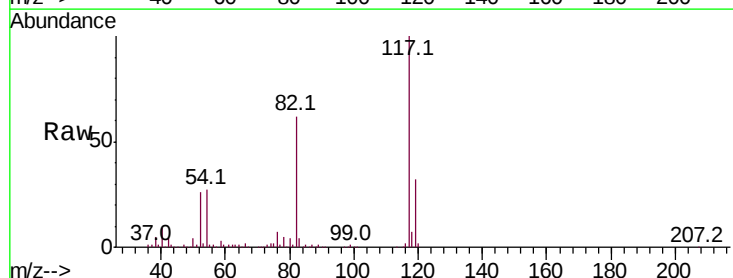
Tgt Ion: 117 Resp: 424993

Ion Ratio Lower Upper

117 100

82 61.8 49.2 73.8

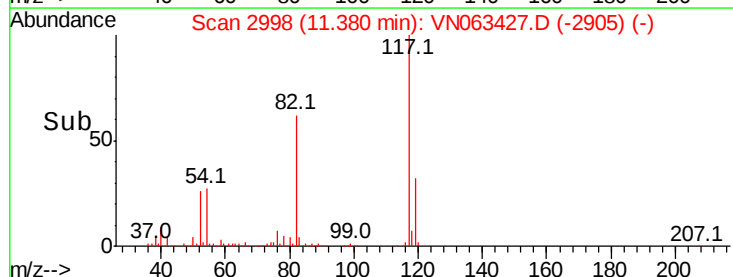
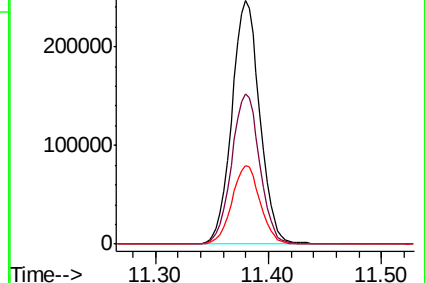
119 32.2 26.2 39.4

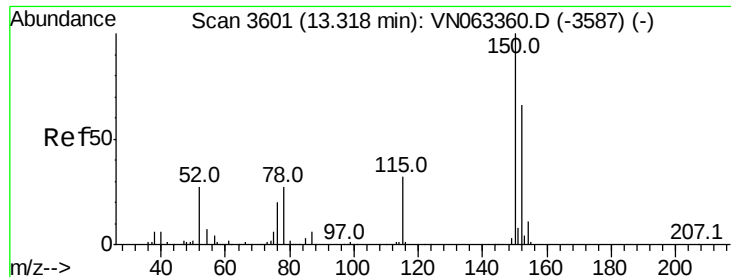


Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

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: VN063427.D

Acq: 17 Sep 2020 18:25

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(D-0)

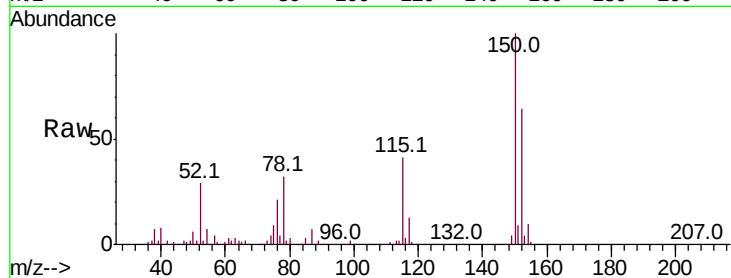
Tot Ion:152 Resp: 181855

Ion Ratio Lower Upper

152 100

115 64.4 32.2 96.6

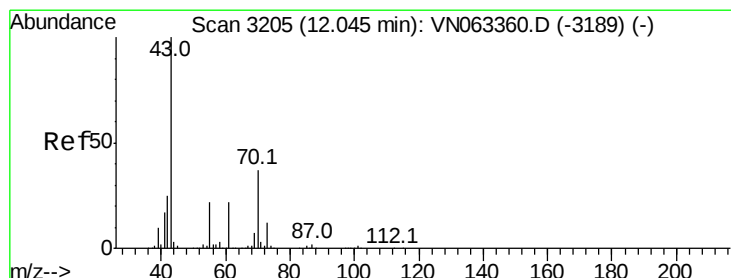
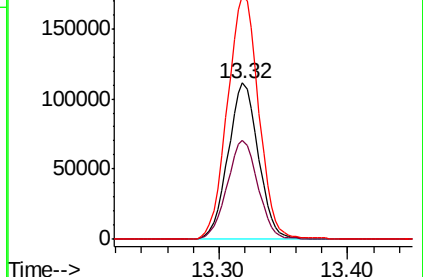
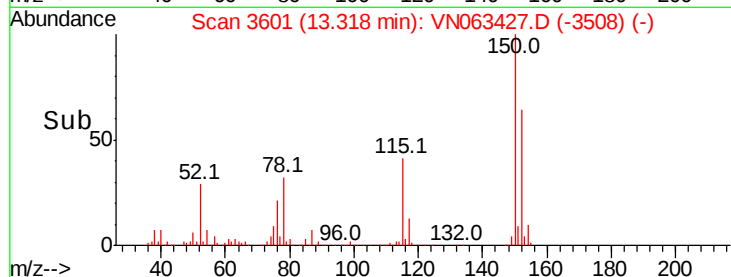
150 160.9 0.0 343.4



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



#74

N-ethyl acetate

Concen: 0.440 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063427.D

Acq: 17 Sep 2020 18:25

Tgt Ion: 43 Resp: 3032

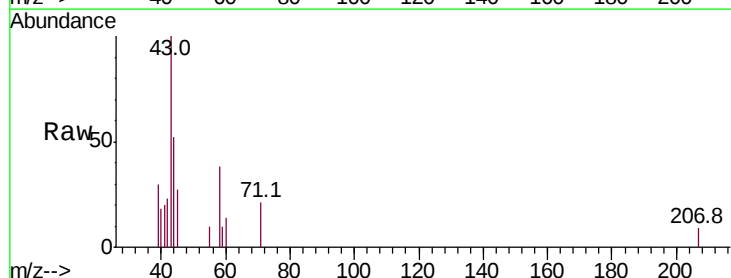
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 5.8 17.7 26.5#

61 0.0 17.4 26.2#

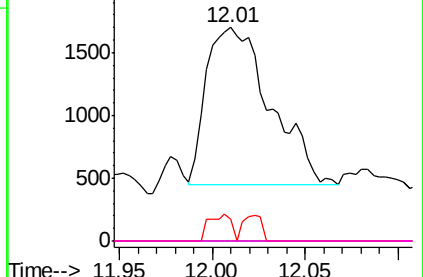
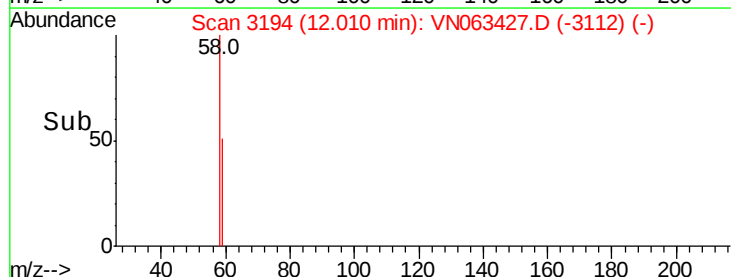


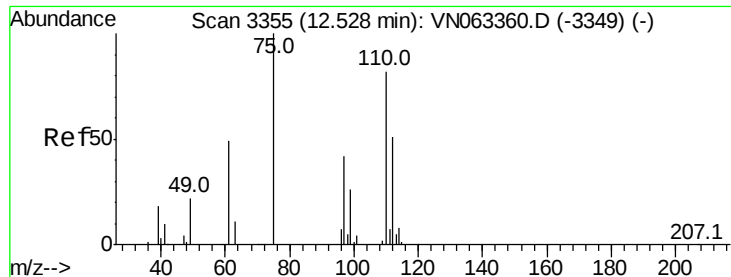
Abundance Ion 43.00 (42.70 to 43.70): VN0

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

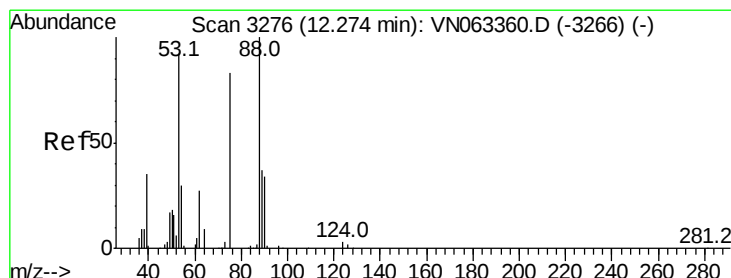
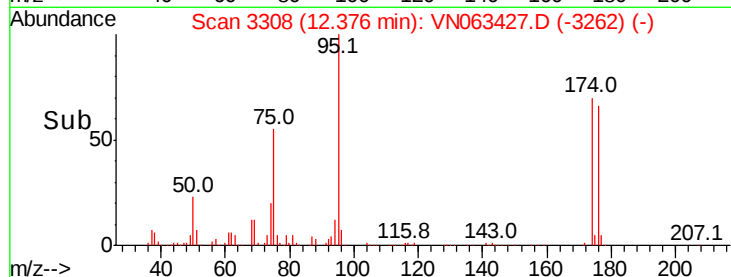
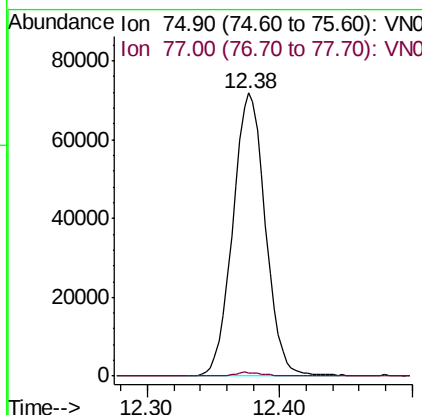
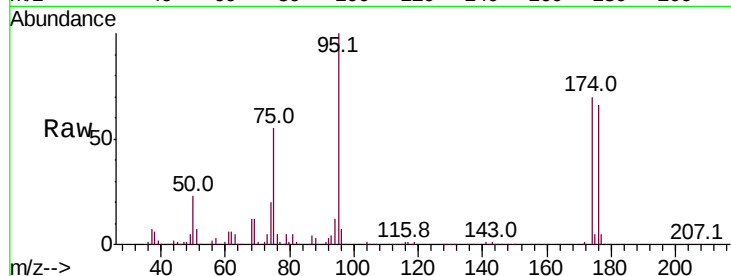




#76
 1,2,3-Trichloropropane
 Concen: 27.192 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063427.D
 Acq: 17 Sep 2020 18:25

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

Tot Ion: 75 Resp: 122396
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.550 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063427.D
 Acq: 17 Sep 2020 18:25

Tgt Ion: 75 Resp: 122396
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.7 128.5#
 89 0.0 38.0 57.0#

