

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091720\
 Data File : VN063428.D
 Acq On : 17 Sep 2020 18:49
 Operator : JC/MD
 Sample : L4015-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-5W-(A-4)

Quant Time: Sep 18 02:51:54 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	225338	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	427034	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	426568	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	182986	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	186947	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
35) Dibromofluoromethane	7.55	113	139491	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	
50) Toluene-d8	10.06	98	553847	49.82	ug/l	0.00
Spiked Amount			Recovery	=	99.64%	
62) 4-Bromofluorobenzene	12.38	95	223580	54.87	ug/l	0.00
Spiked Amount			Recovery	=	109.74%	

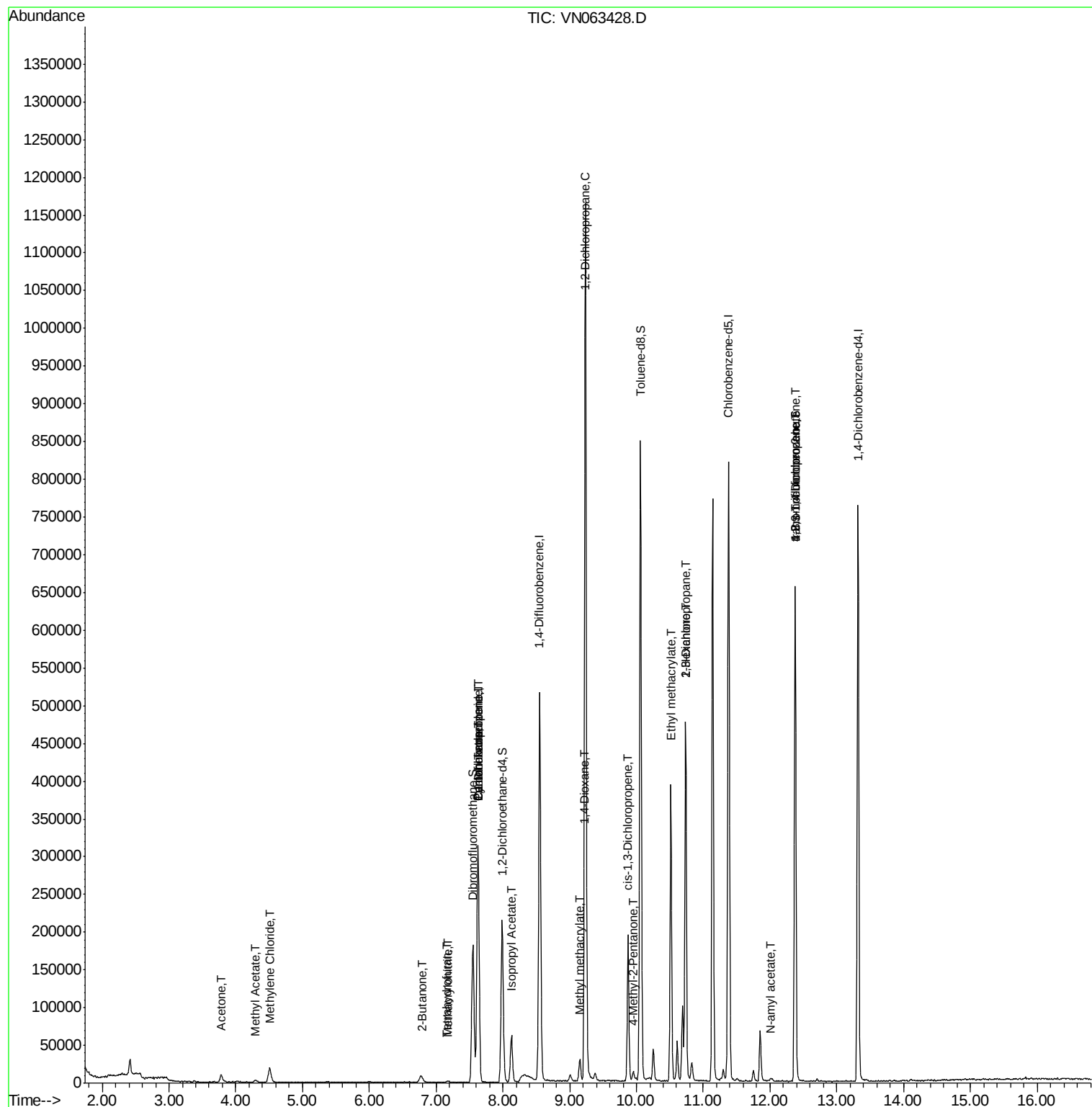
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	17874	14.499	ug/l	99
18) Methyl Acetate	4.28	43	1802	0.576	ug/l #	66
20) Methylene Chloride	4.51	84	12880	4.124	ug/l	96
25) 2-Butanone	6.78	43	1595	0.841	ug/l	95
29) Tetrahydrofuran	7.16	42	293	0.226	ug/l #	45
31) Cyclohexane	7.62	56	7052	1.331	ug/l #	25
36) 1,1-Dichloropropene	7.63	75	21135	4.646	ug/l #	52
38) Carbon Tetrachloride	7.63	117	25458	5.482	ug/l #	17
41) Methacrylonitrile	7.16	41	436	0.217	ug/l #	100
43) Isopropyl Acetate	8.13	43	76529	9.585	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1436	0.406	ug/l #	43
48) Methyl methacrylate	9.15	41	4424	1.128	ug/l #	15
49) 1,4-Dioxane	9.21	88	81	1.439	ug/l #	20
51) 4-Methyl-2-Pentanone	9.95	43	8725	1.952	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	31270	5.498	ug/l #	70
56) Ethyl methacrylate	10.52	69	1105	0.228	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4433	0.793	ug/l #	42
59) 2-Hexanone	10.74	43	76366	23.583	ug/l #	52
74) N-amyl acetate	12.00	43	3021	0.435	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	122236	26.989	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	122236	73.993	ug/l #	7

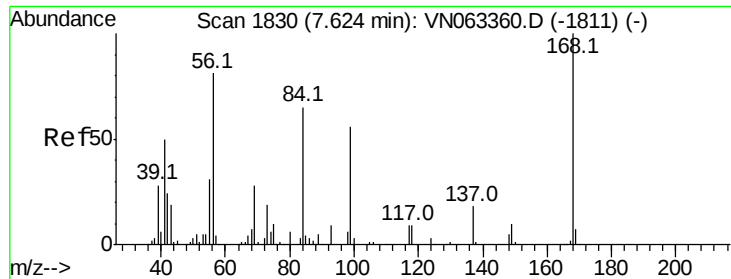
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

Instrument :

MSVOA_N

ClientSampleId :

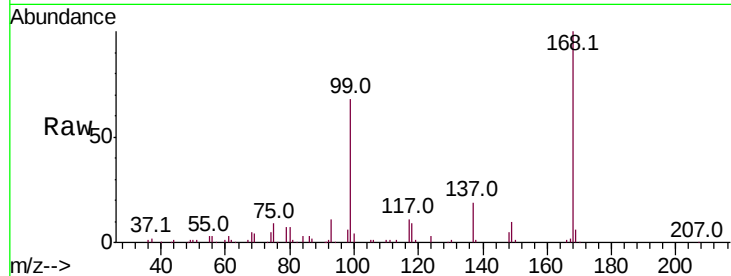
REACTOR-5W-(A-4)

Tot Ion:168 Resp: 225338

Ion Ratio Lower Upper

168 100

99 68.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): VN063360.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063360.D (-1811) (-)

7.63

100000

80000

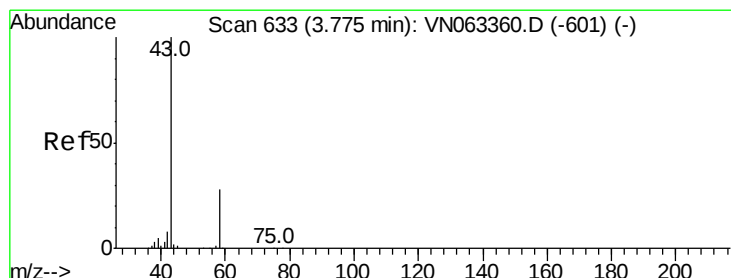
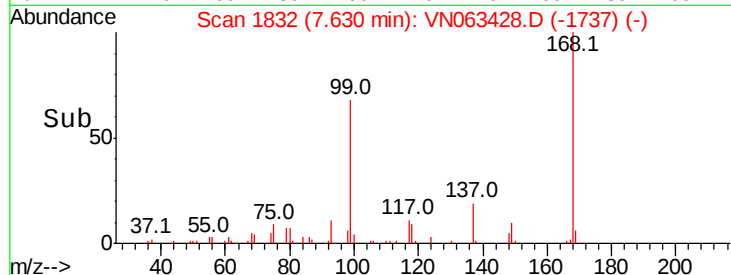
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 14.499 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063428.D

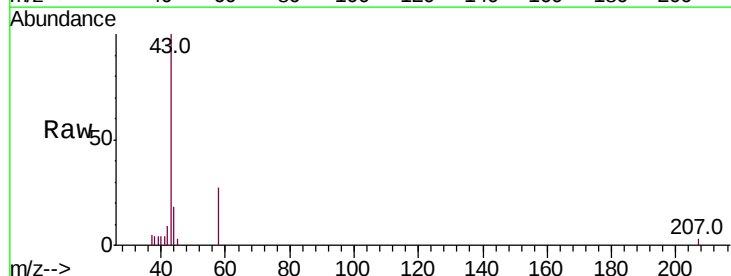
Acq: 17 Sep 2020 18:49

Tgt Ion: 43 Resp: 17874

Ion Ratio Lower Upper

43 100

58 27.2 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-601) (-)

3.78

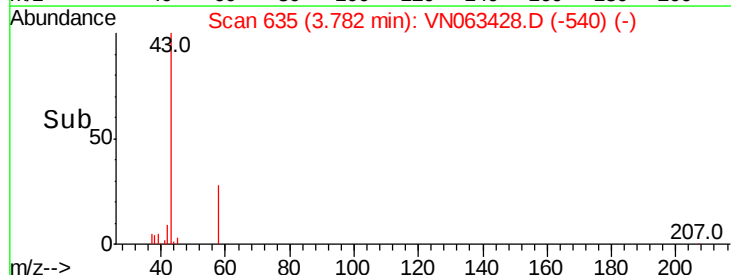
6000

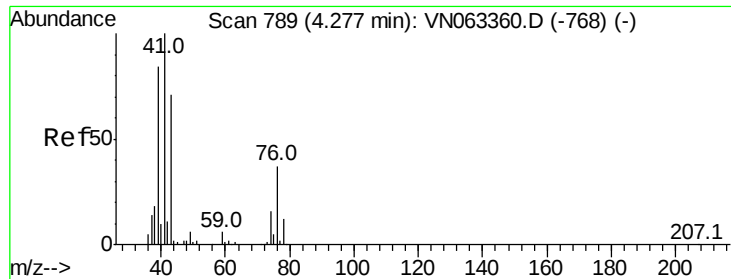
4000

2000

0

Time-->

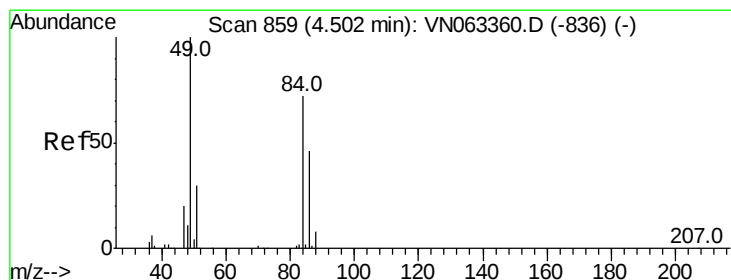
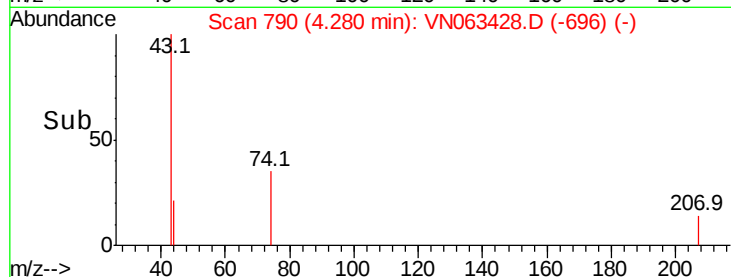
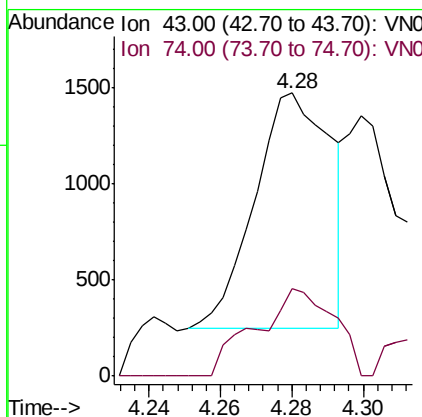
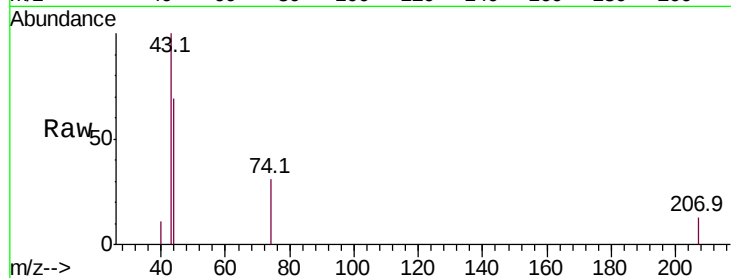




#18
Methvl Acetate
Concen: 0.576 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN063428.D
Acq: 17 Sep 2020 18:49

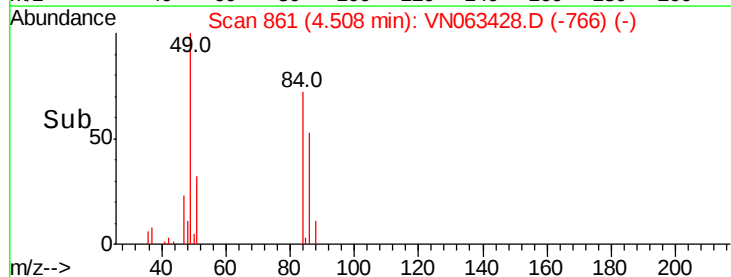
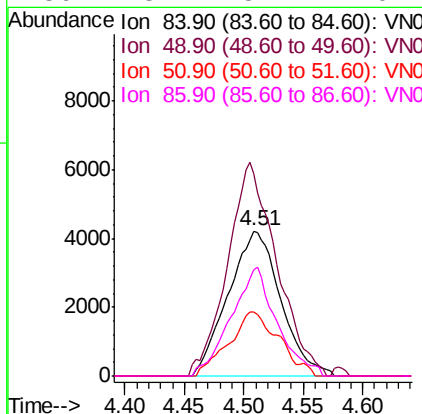
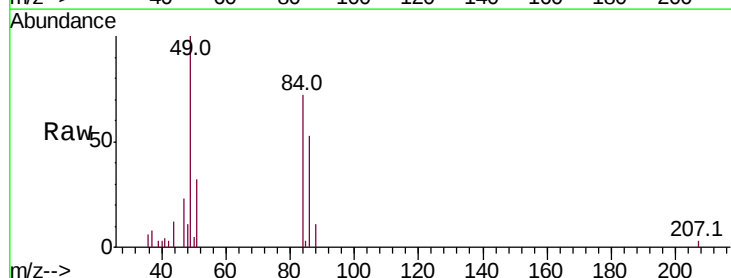
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(A-4)

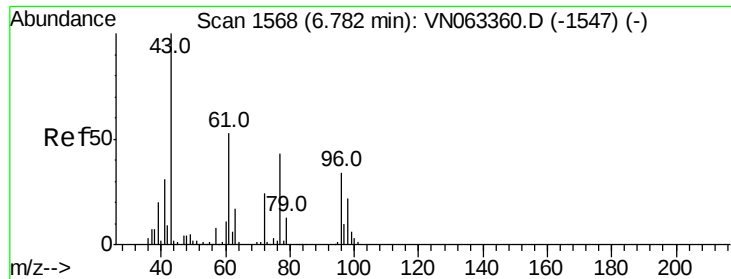
Tot Ion: 43 Resp: 1802
Ion Ratio Lower Upper
43 100
74 38.1 17.4 26.2#



#20
Methylene Chloride
Concen: 4.124 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063428.D
Acq: 17 Sep 2020 18:49

Tgt Ion: 84 Resp: 12880
Ion Ratio Lower Upper
84 100
49 139.0 110.7 166.1
51 44.5 32.9 49.3
86 73.2 51.1 76.7





#25

2-Butanone

Concen: 0.841 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

Instrument :

MSVOA_N

ClientSampleId :

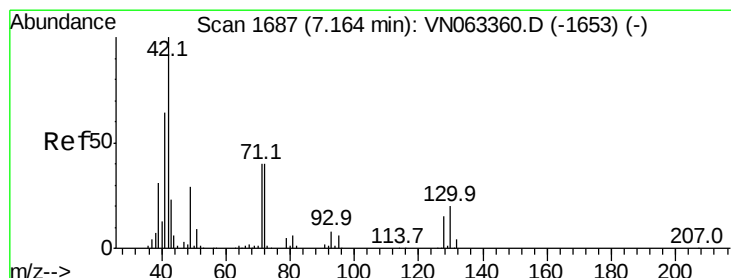
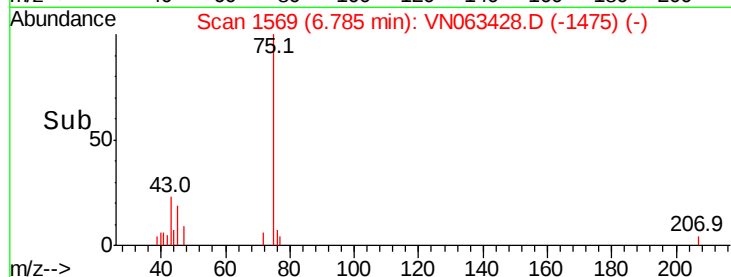
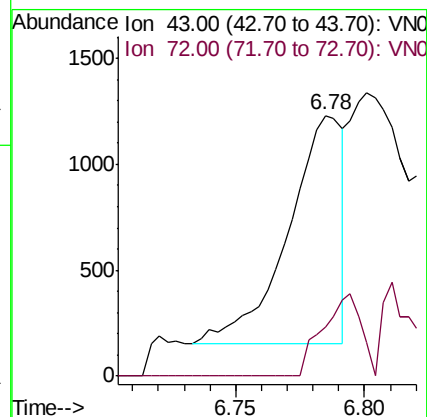
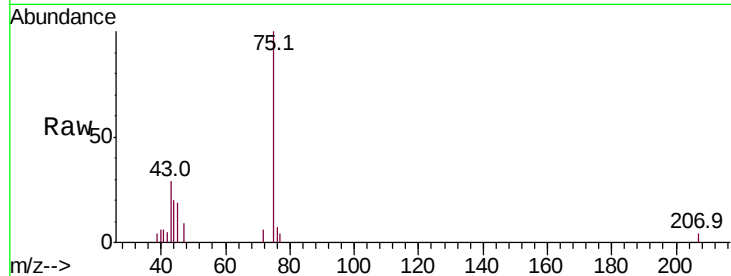
REACTOR-5W-(A-4)

Tot Ion: 43 Resp: 1595

Ion Ratio Lower Upper

43 100

72 21.5 19.2 28.8



#29

Tetrahydrofuran

Concen: 0.226 ug/l

RT: 7.16 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

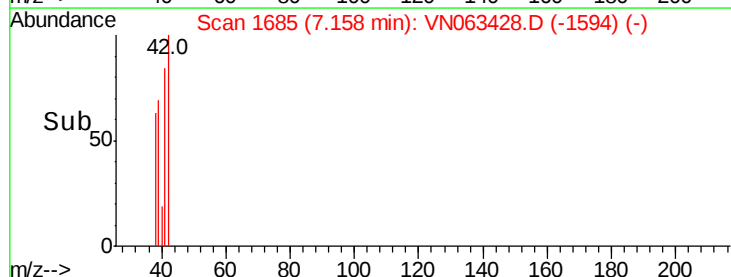
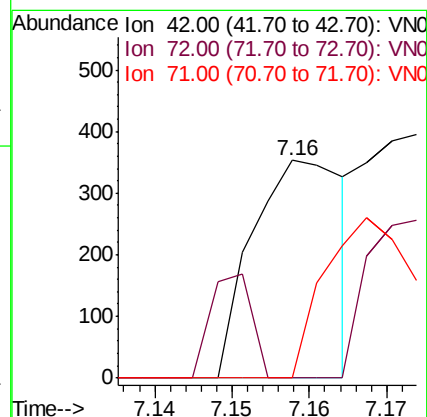
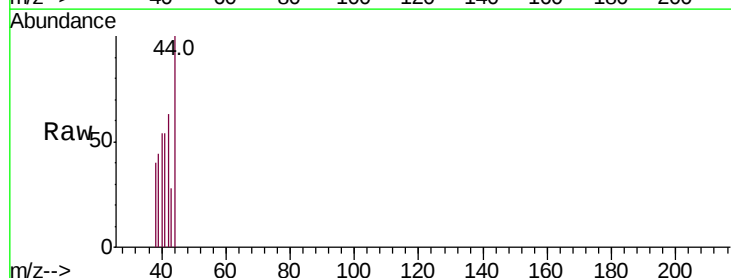
Tgt Ion: 42 Resp: 293

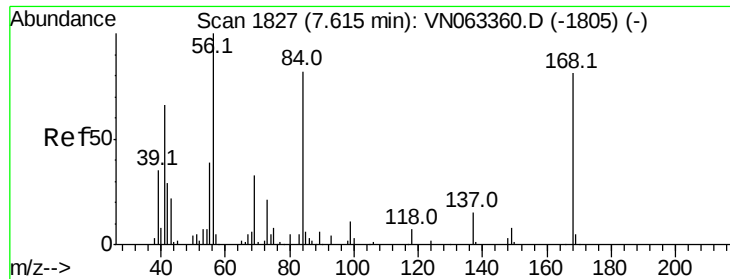
Ion Ratio Lower Upper

42 100

72 21.5 32.1 48.1#

71 88.4 31.2 46.8#

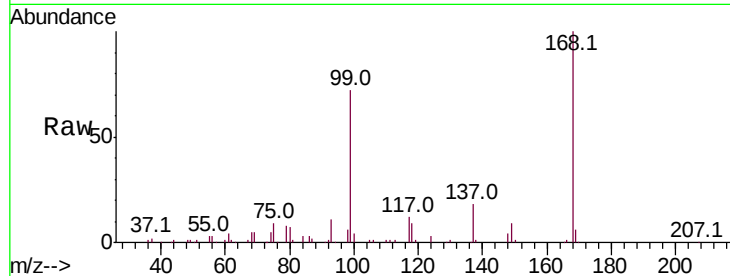




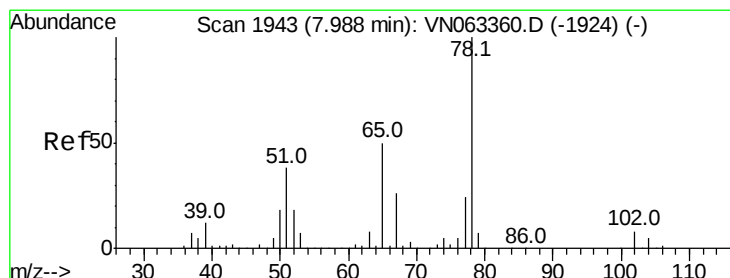
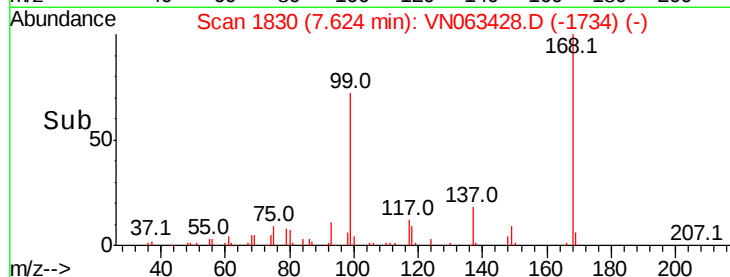
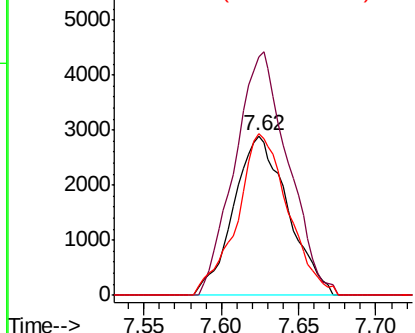
#31
Cyclohexane
Concen: 1.331 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063428.D
Acq: 17 Sep 2020 18:49

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(A-4)

Tot Ion: 56 Resp: 7052
Ion Ratio Lower Upper
56 100
69 149.5 26.1 39.1#
84 101.1 65.4 98.2#

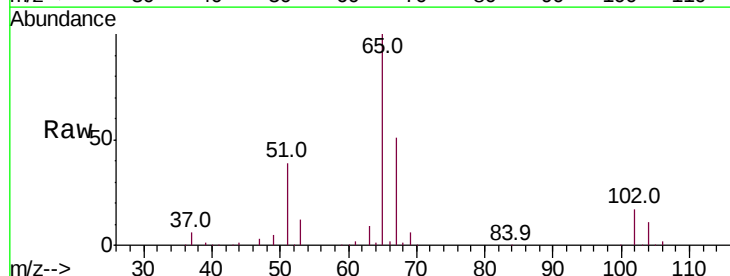


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

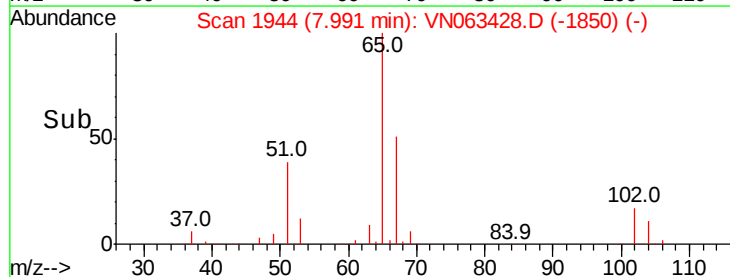
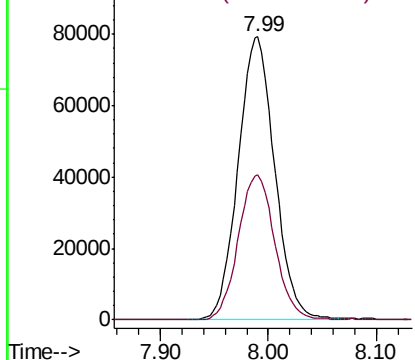


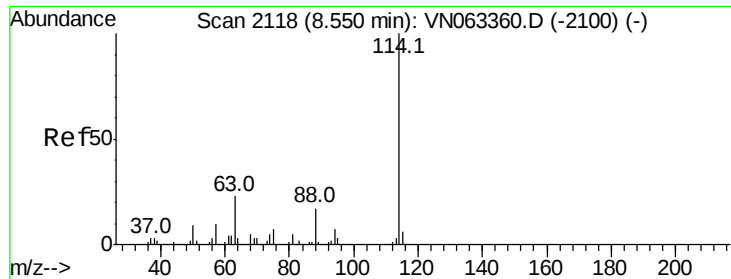
#33
1,2-Dichloroethane-d4
Concen: 48.737 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN063428.D
Acq: 17 Sep 2020 18:49

Tgt Ion: 65 Resp: 186947
Ion Ratio Lower Upper
65 100
67 51.3 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(A-4)

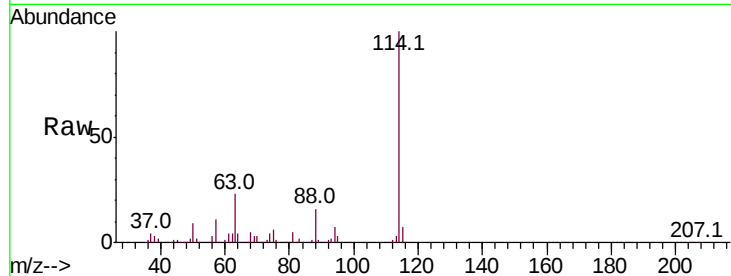
Tot Ion:114 Resp: 427034

Ion Ratio Lower Upper

114 100

63 23.0 0.0 46.4

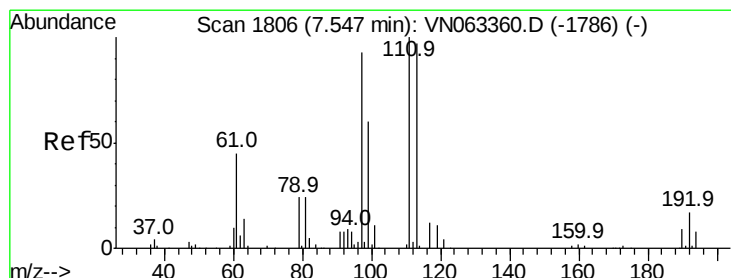
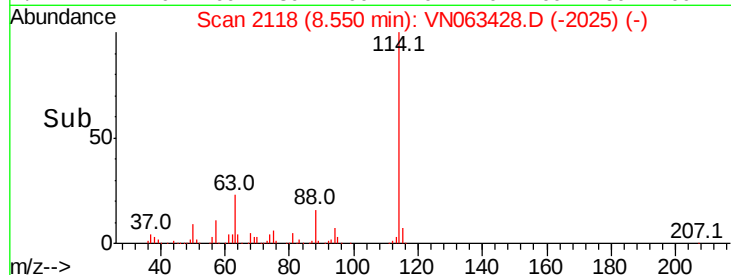
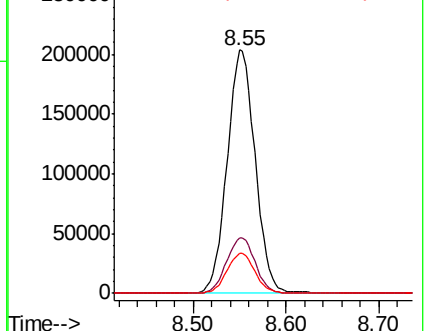
88 16.4 0.0 33.2



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: 47.185 ug/l

RT: 7.55 min Scan# 1808

Delta R.T. 0.01 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

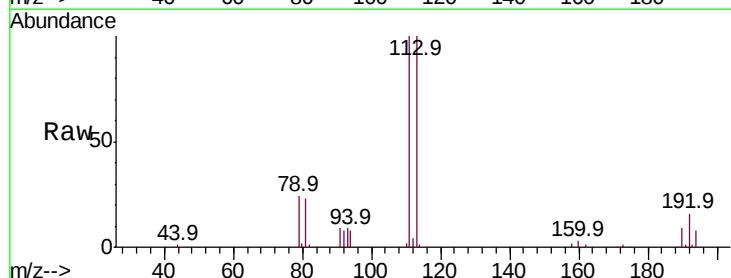
Tgt Ion:113 Resp: 139491

Ion Ratio Lower Upper

113 100

111 101.6 82.9 124.3

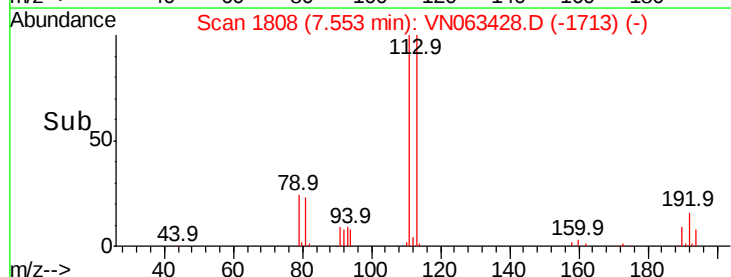
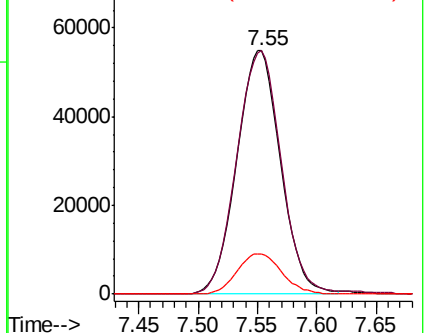
192 16.9 13.9 20.9

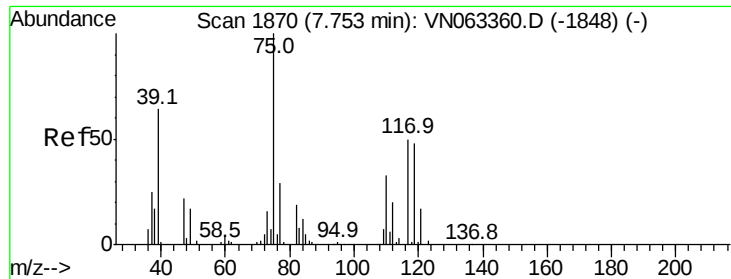


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

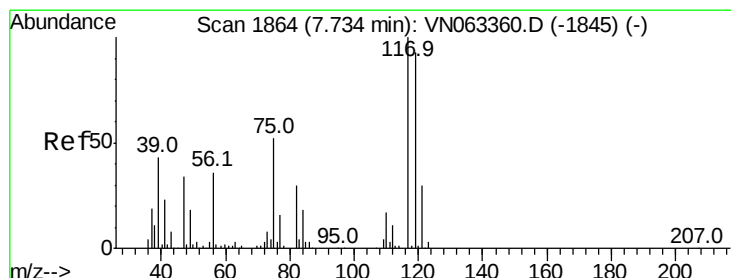
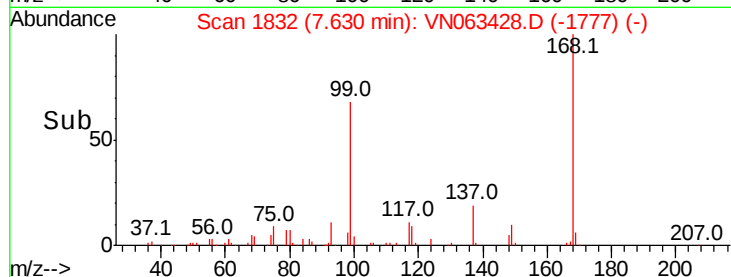
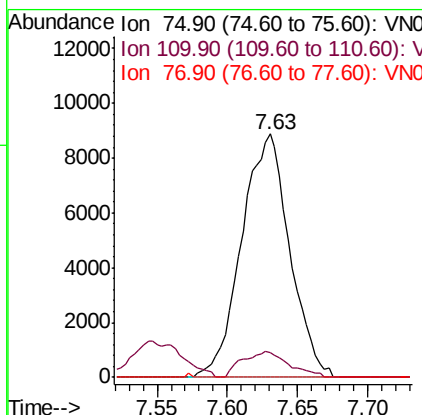
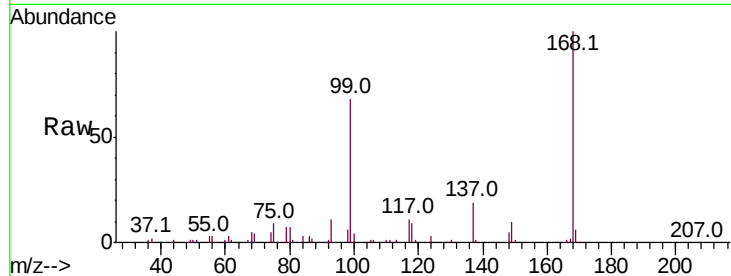




#36
 1,1-Dichloropropene
 Concen: 4.646 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN063428.D
 Acq: 17 Sep 2020 18:49

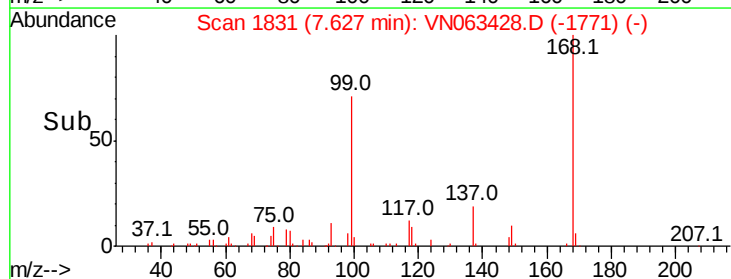
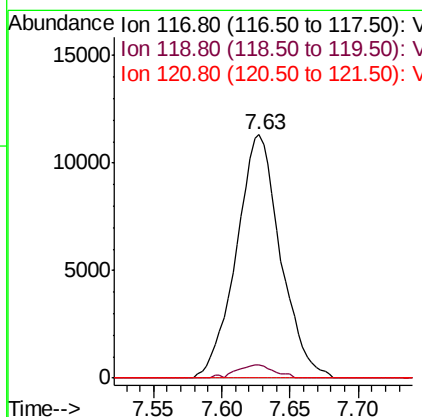
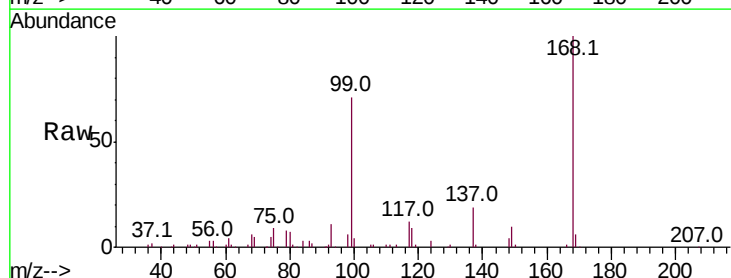
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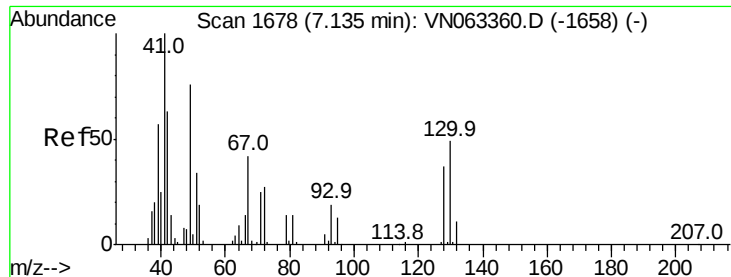
Tot Ion: 75 Resp: 21135
 Ion Ratio Lower Upper
 75 100
 110 10.3 16.5 49.5#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 5.482 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063428.D
 Acq: 17 Sep 2020 18:49

Tgt Ion: 117 Resp: 25458
 Ion Ratio Lower Upper
 117 100
 119 5.5 74.5 111.7#
 121 0.0 24.1 36.1#

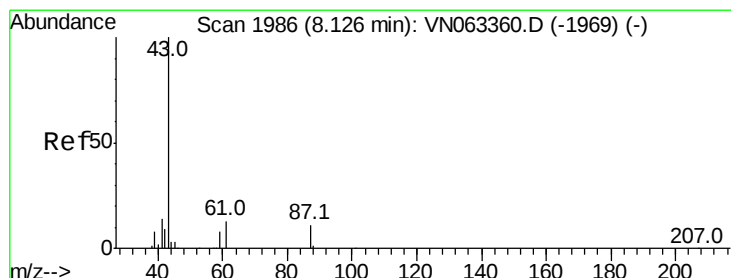
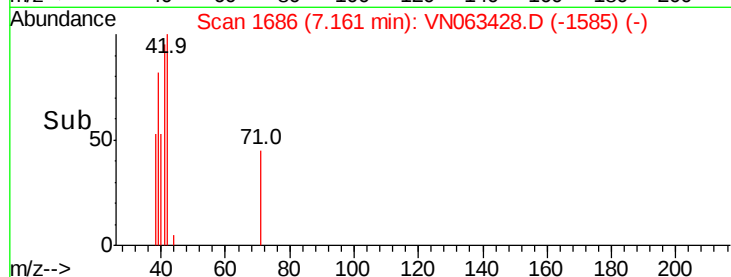
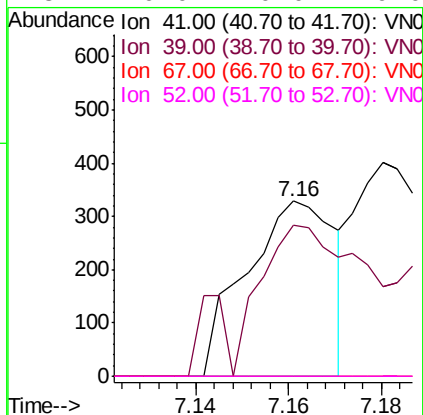
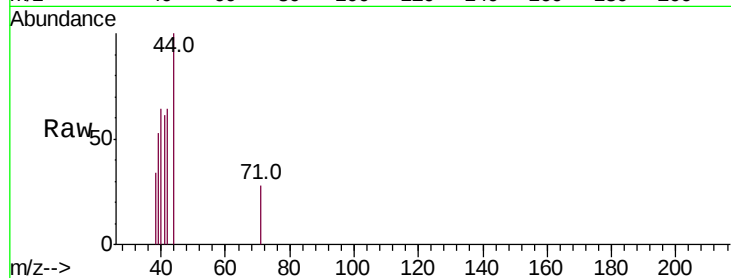




#41
Methacrylonitrile
Concen: 0.217 ug/l
RT: 7.16 min Scan# 1686
Delta R.T. 0.03 min
Lab File: VN063428.D
Acq: 17 Sep 2020 18:49

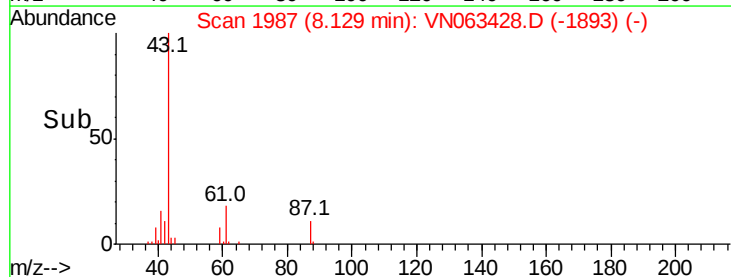
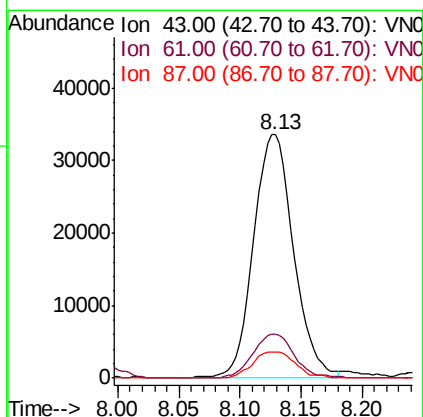
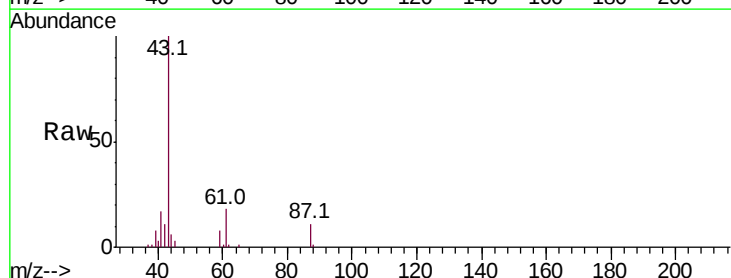
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MSVOA_N
ClientSampleId :
REACTOR-5W-(A-4)

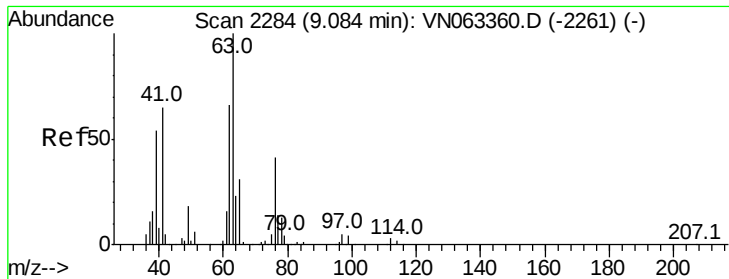
Tot Ion:	41	Resp:	436
Ion	Ratio	Lower	Upper
41	100		
39	98.4	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 9.585 ug/l
RT: 8.13 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN063428.D
Acq: 17 Sep 2020 18:49

Tgt Ion:	43	Resp:	76529
Ion	Ratio	Lower	Upper
43	100		
61	18.5	14.2	21.2
87	11.5	9.0	13.6





#45

1,2-Dichloropropane

Concen: 0.406 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

Instrument :

MSVOA_N

ClientSampleId :

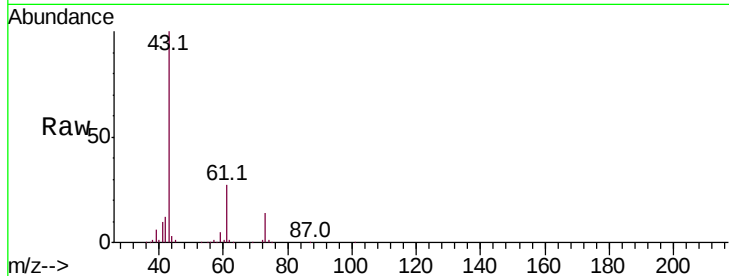
REACTOR-5W-(A-4)

Tot Ion: 63 Resp: 1436

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

9.23

800

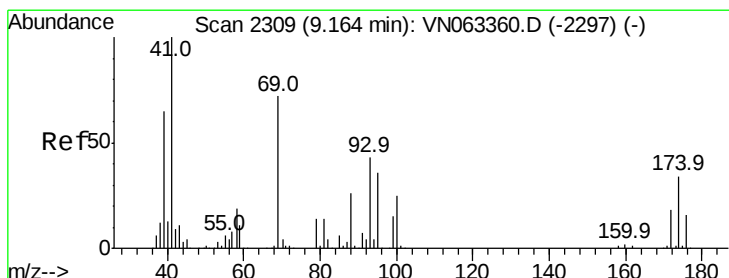
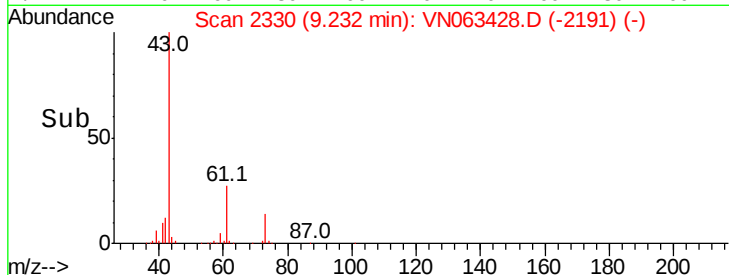
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.128 ug/l

RT: 9.15 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

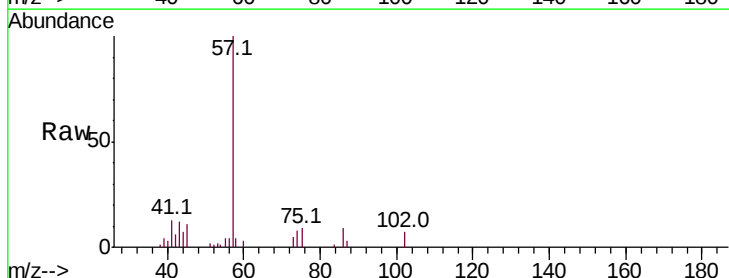
Tgt Ion: 41 Resp: 4424

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

60000

50000

40000

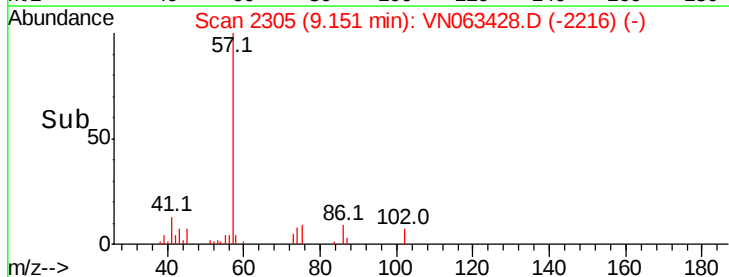
30000

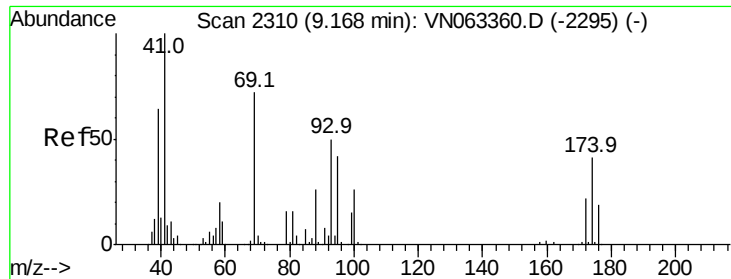
20000

10000

0

Time-->





#49

1,4-Dioxane

Concen: 1.439 ug/l

RT: 9.21 min Scan# 2322

Delta R.T. 0.04 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(A-4)

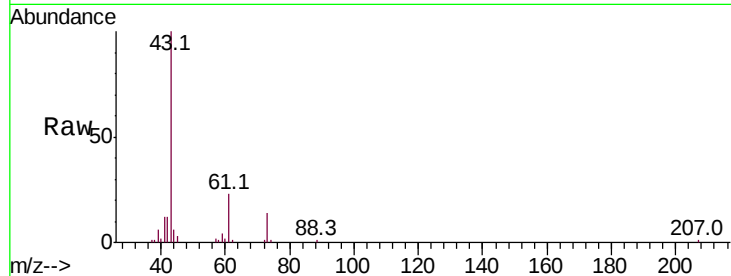
Tot Ion: 88 Resp: 81

Ion Ratio Lower Upper

88 100

43 0.0 32.6 49.0#

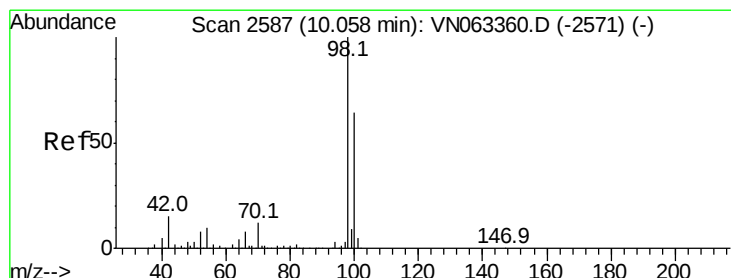
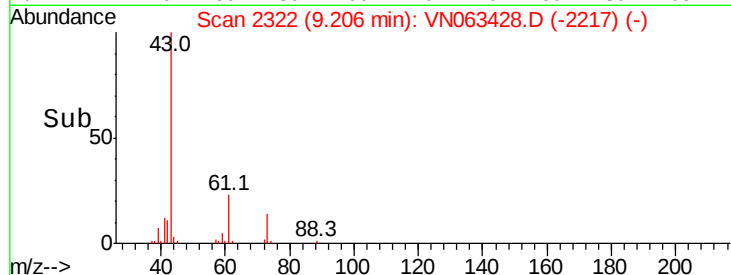
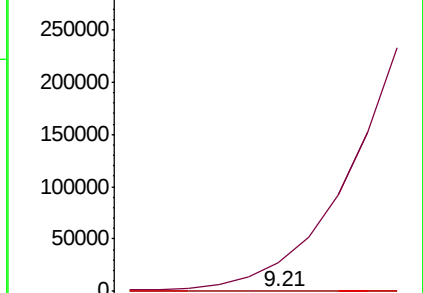
58 0.0 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.824 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063428.D

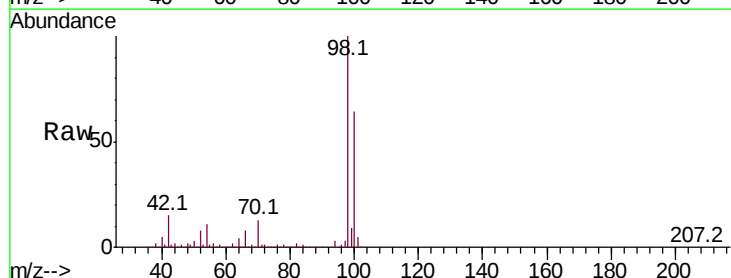
Acq: 17 Sep 2020 18:49

Tgt Ion: 98 Resp: 553847

Ion Ratio Lower Upper

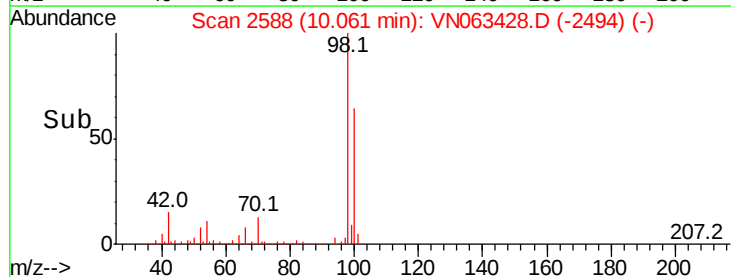
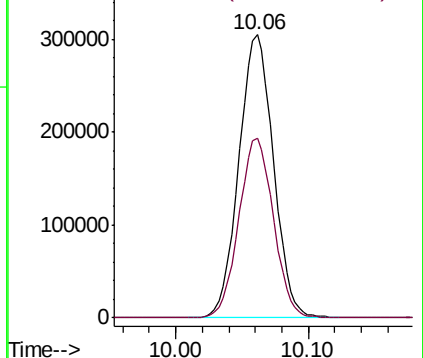
98 100

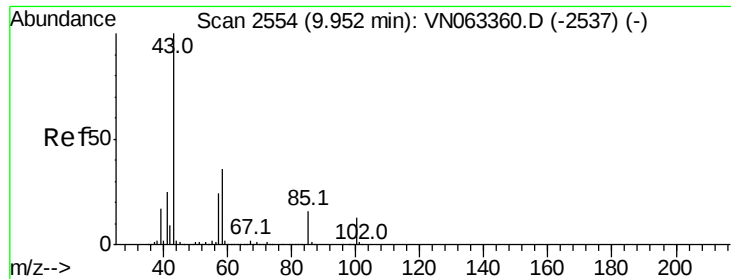
100 63.7 50.7 76.1



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: 1.952 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

Instrument :

MSVOA_N

ClientSampleId :

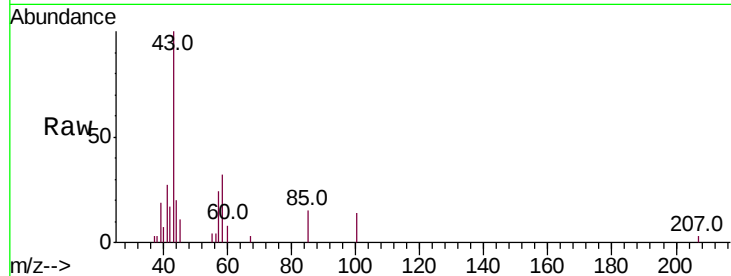
REACTOR-5W-(A-4)

Tot Ion: 43 Resp: 8725

Ion Ratio Lower Upper

43 100

58 39.9 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) (-)

10000

8000

6000

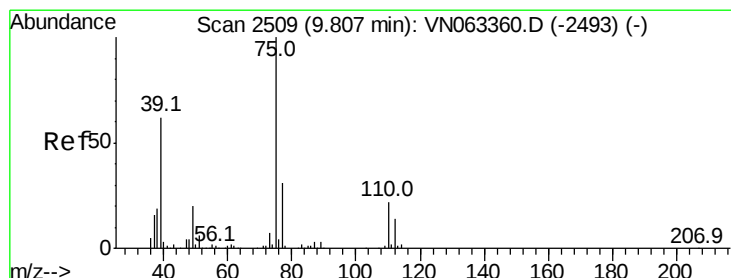
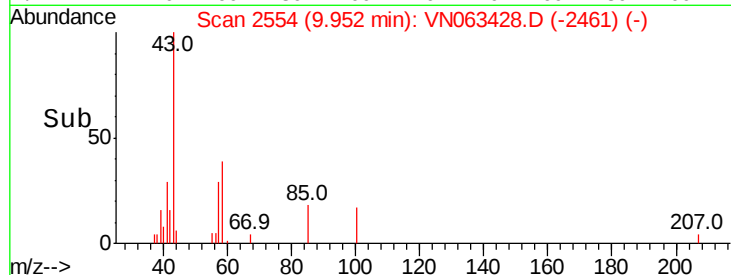
4000

2000

0

9.90 9.95

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.498 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

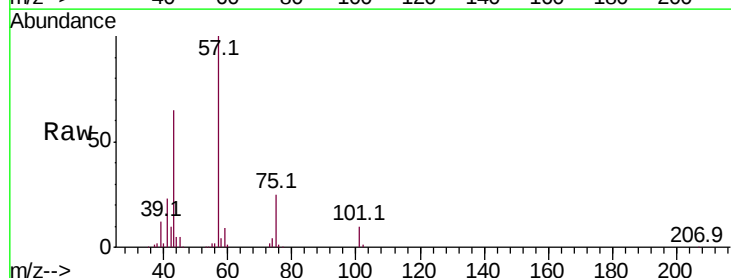
Tgt Ion: 75 Resp: 31270

Ion Ratio Lower Upper

75 100

77 0.9 24.6 37.0#

39 48.4 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN063360.D (-2493) (-)

20000

15000

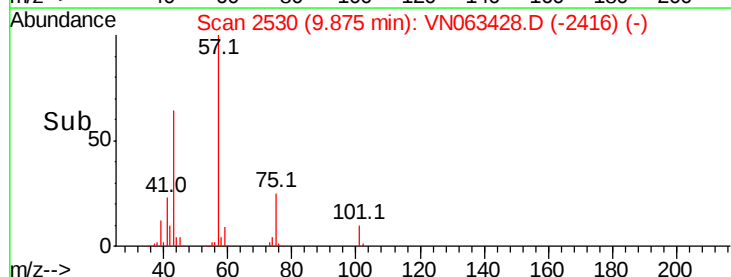
10000

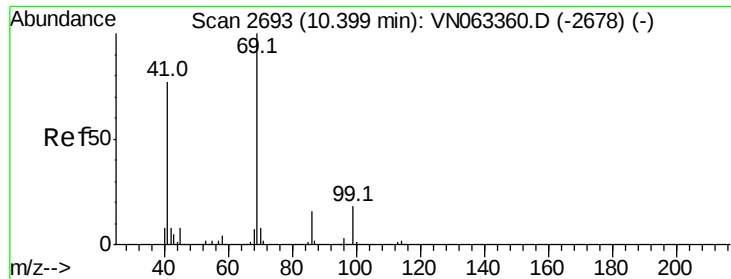
5000

0

9.80 9.85 9.90 9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.228 ug/l

RT: 10.52 min Scan# 2731

Delta R.T. 0.12 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(A-4)

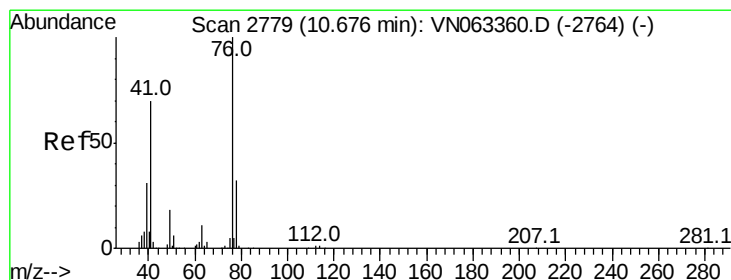
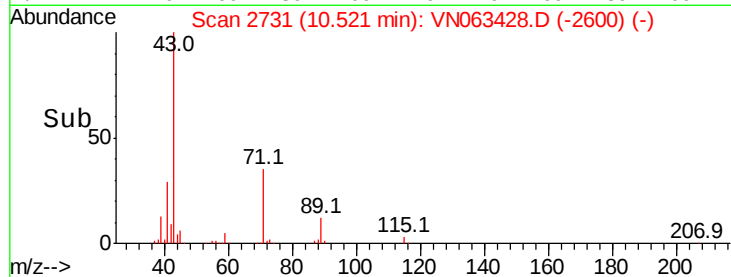
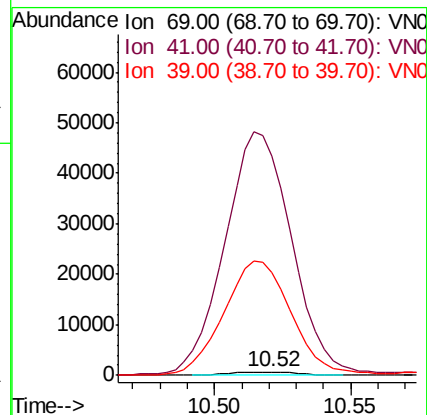
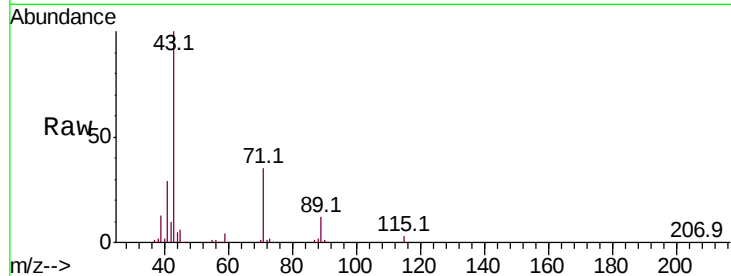
Tot Ion: 69 Resp: 1105

Ion Ratio Lower Upper

69 100

41 7467.2 61.0 91.6#

39 3540.1 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.793 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063428.D

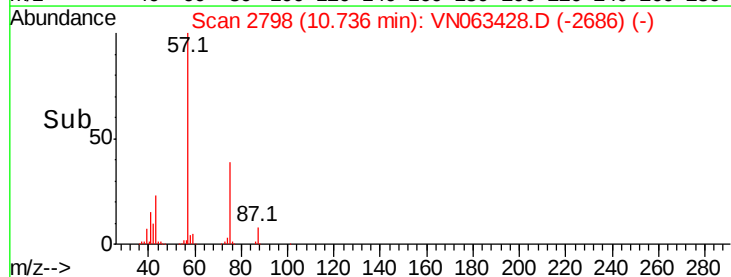
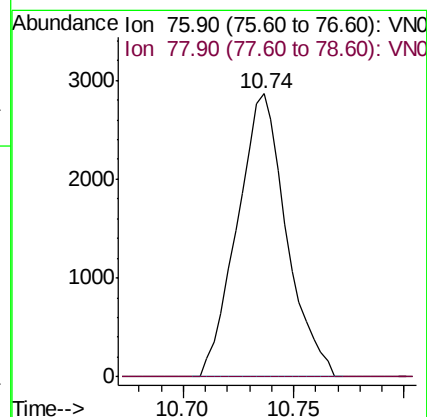
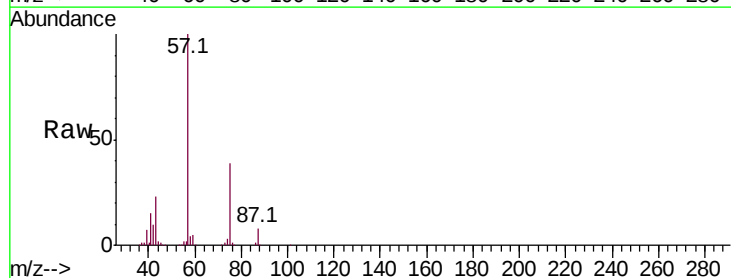
Acq: 17 Sep 2020 18:49

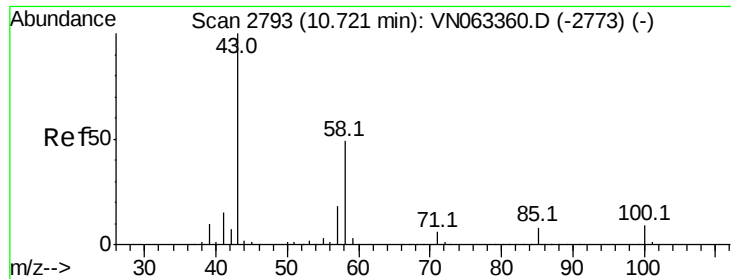
Tgt Ion: 76 Resp: 4433

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 23.583 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

Instrument :

MSVOA_N

ClientSampleId :

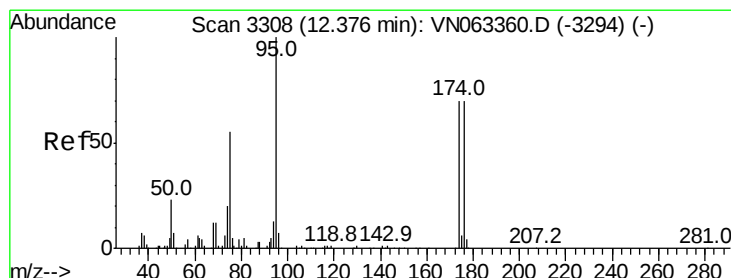
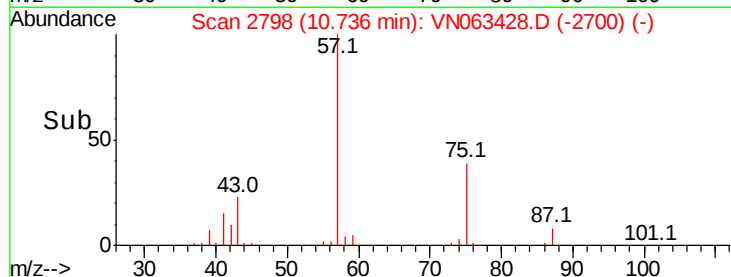
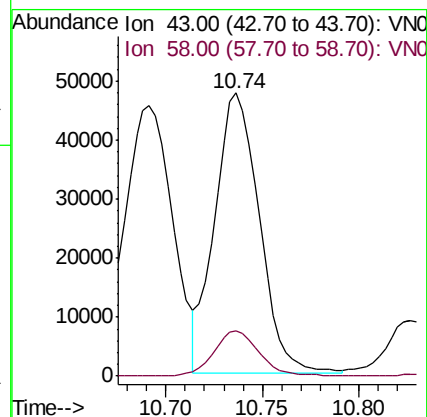
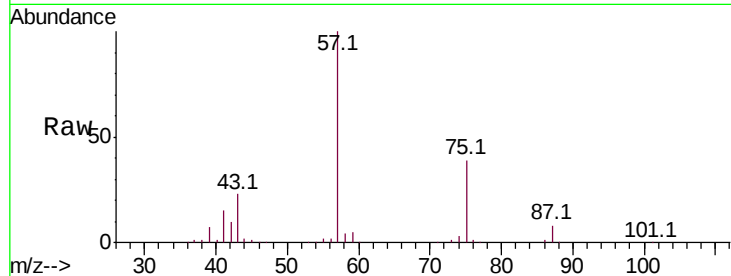
REACTOR-5W-(A-4)

Tot Ion: 43 Resp: 76366

Ion Ratio Lower Upper

43 100

58 16.2 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 54.867 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

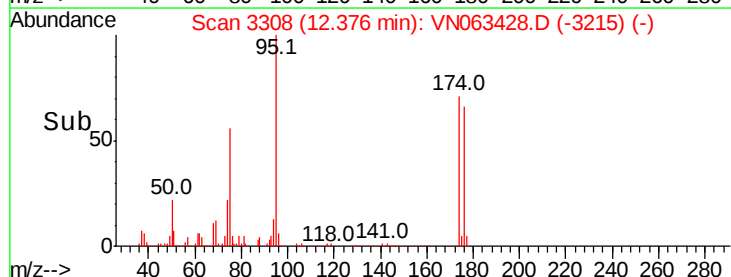
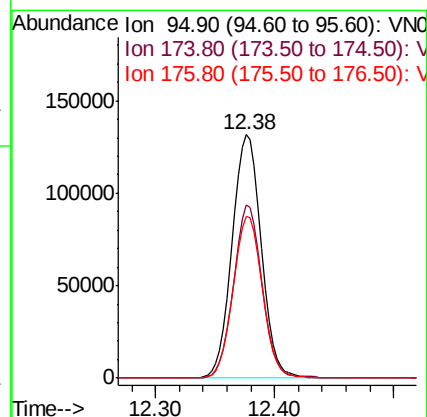
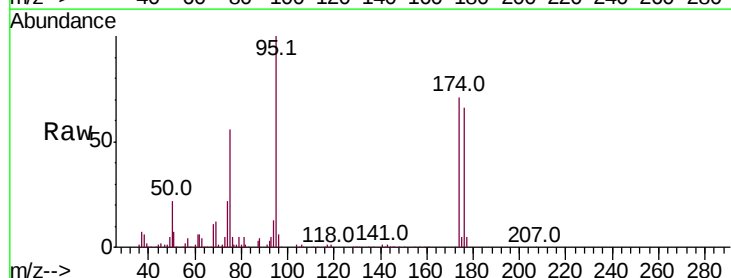
Tgt Ion: 95 Resp: 223580

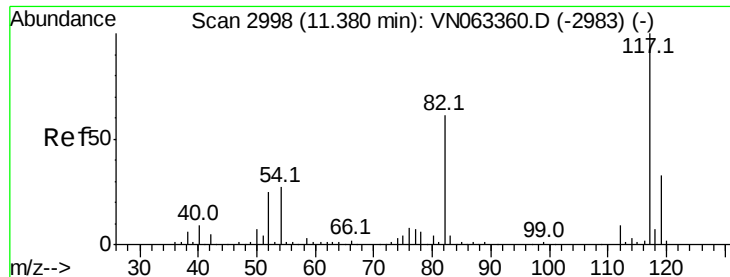
Ion Ratio Lower Upper

95 100

174 69.4 0.0 140.8

176 66.7 0.0 137.6

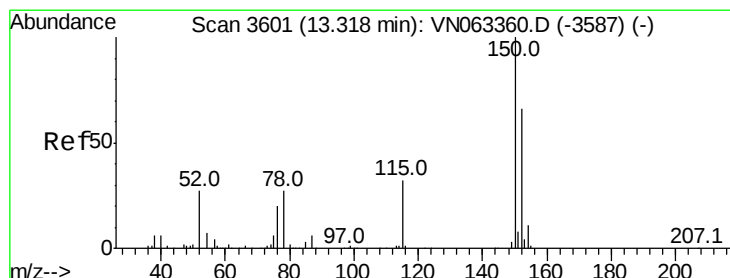
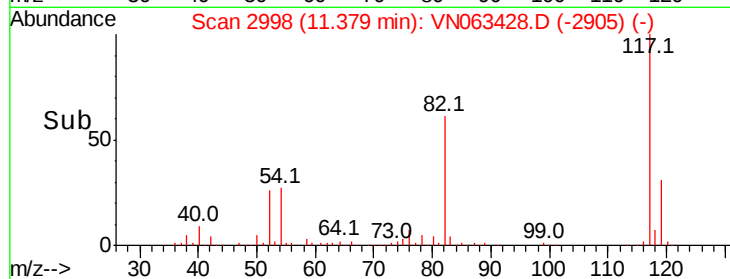
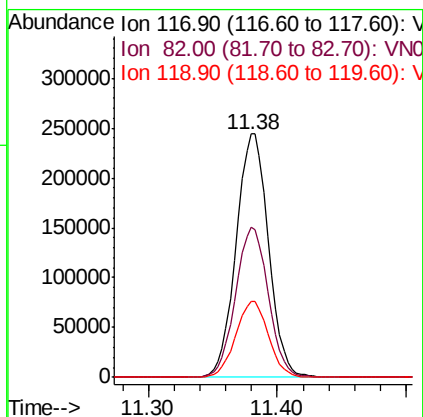
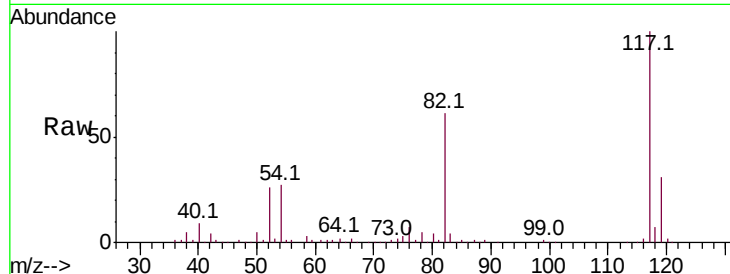




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063428.D
Acq: 17 Sep 2020 18:49

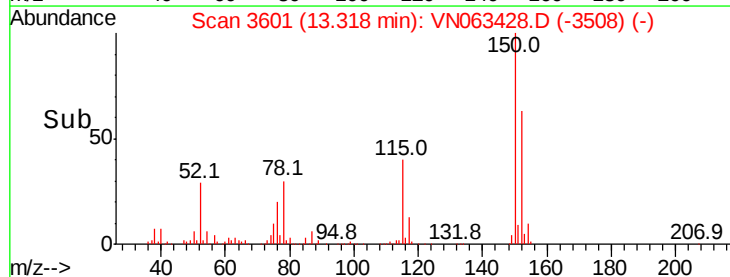
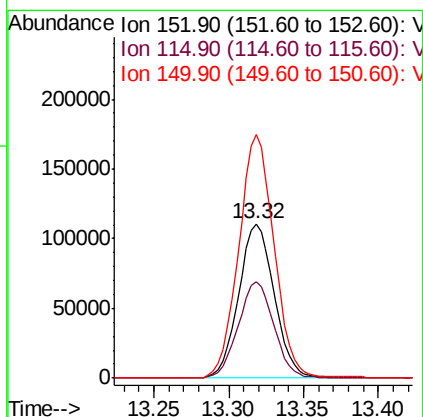
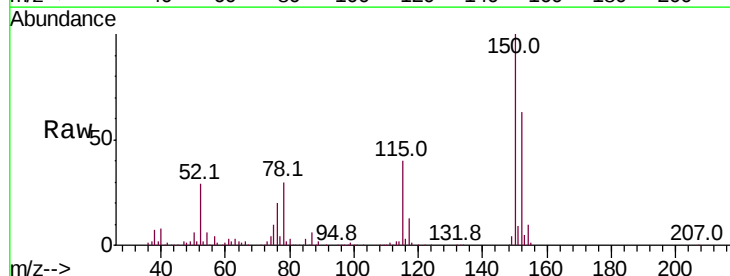
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(A-4)

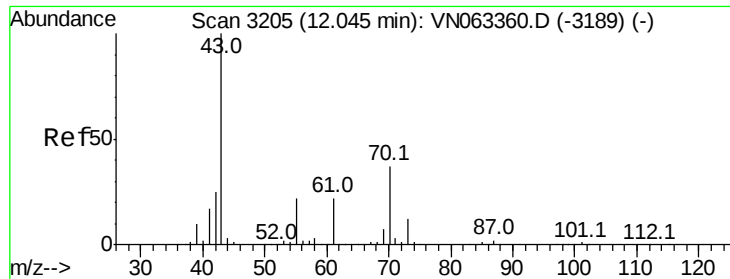
Tot Ion:117 Resp: 426568
Ion Ratio Lower Upper
117 100
82 61.4 49.2 73.8
119 31.4 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063428.D
Acq: 17 Sep 2020 18:49

Tgt Ion:152 Resp: 182986
Ion Ratio Lower Upper
152 100
115 62.6 32.2 96.6
150 157.3 0.0 343.4





#74

N-amvl acetate

Concen: 0.435 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(A-4)

Tot Ion: 43 Resp: 3021

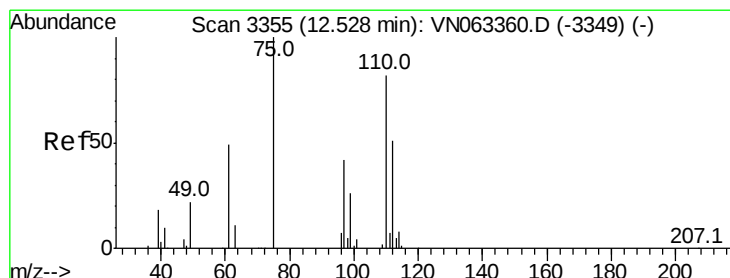
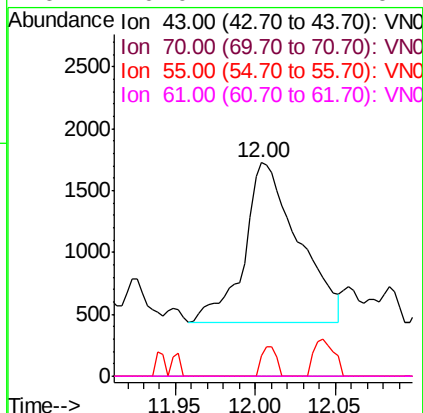
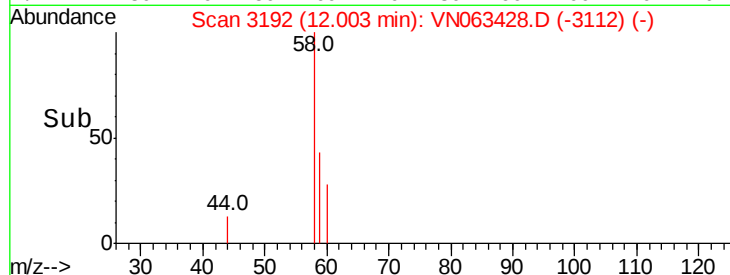
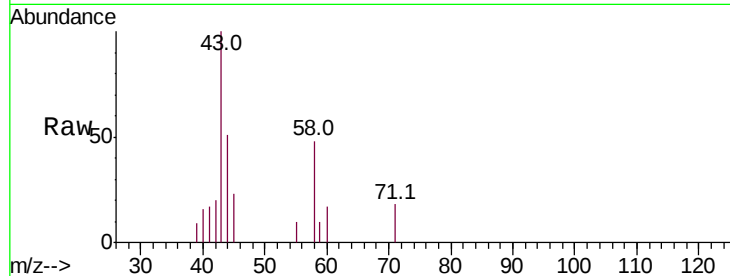
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 5.1 17.7 26.5#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 26.989 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063428.D

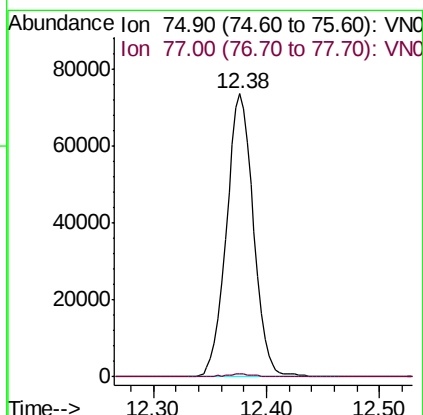
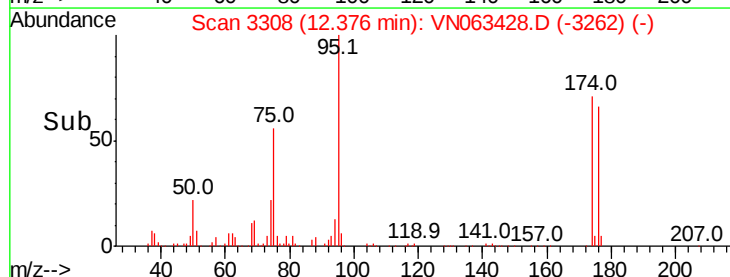
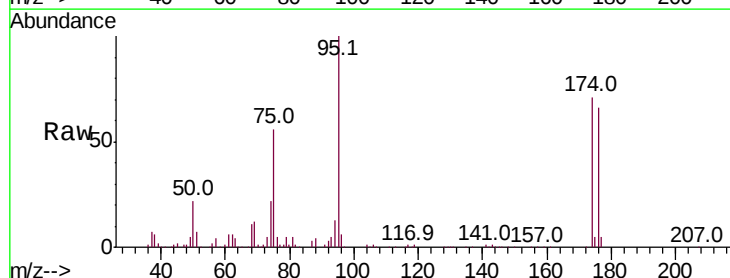
Acq: 17 Sep 2020 18:49

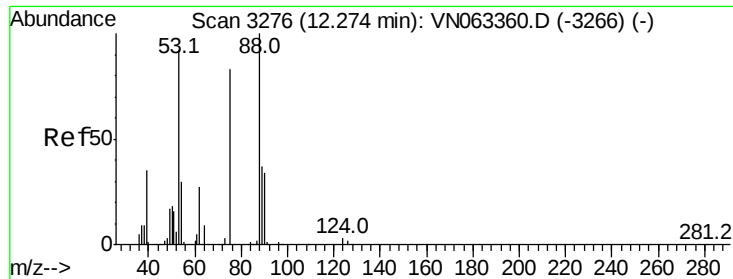
Tgt Ion: 75 Resp: 122236

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 73.993 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063428.D

Acq: 17 Sep 2020 18:49

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(A-4)

Tot Ion: 75 Resp: 122236

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

