

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063401.D
 Acq On : 17 Sep 2020 6:39
 Operator : JC/MD
 Sample : L4015-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-6E-(C-4)

Quant Time: Sep 17 07:29:18 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	229787	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	428251	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	426555	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	180971	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	193629	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
35) Dibromofluoromethane	7.55	113	142727	48.14	ug/l	0.00
Spiked Amount			Recovery	=	96.28%	
50) Toluene-d8	10.06	98	560735	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
62) 4-Bromofluorobenzene	12.38	95	219361	53.68	ug/l	0.00
Spiked Amount			Recovery	=	107.36%	

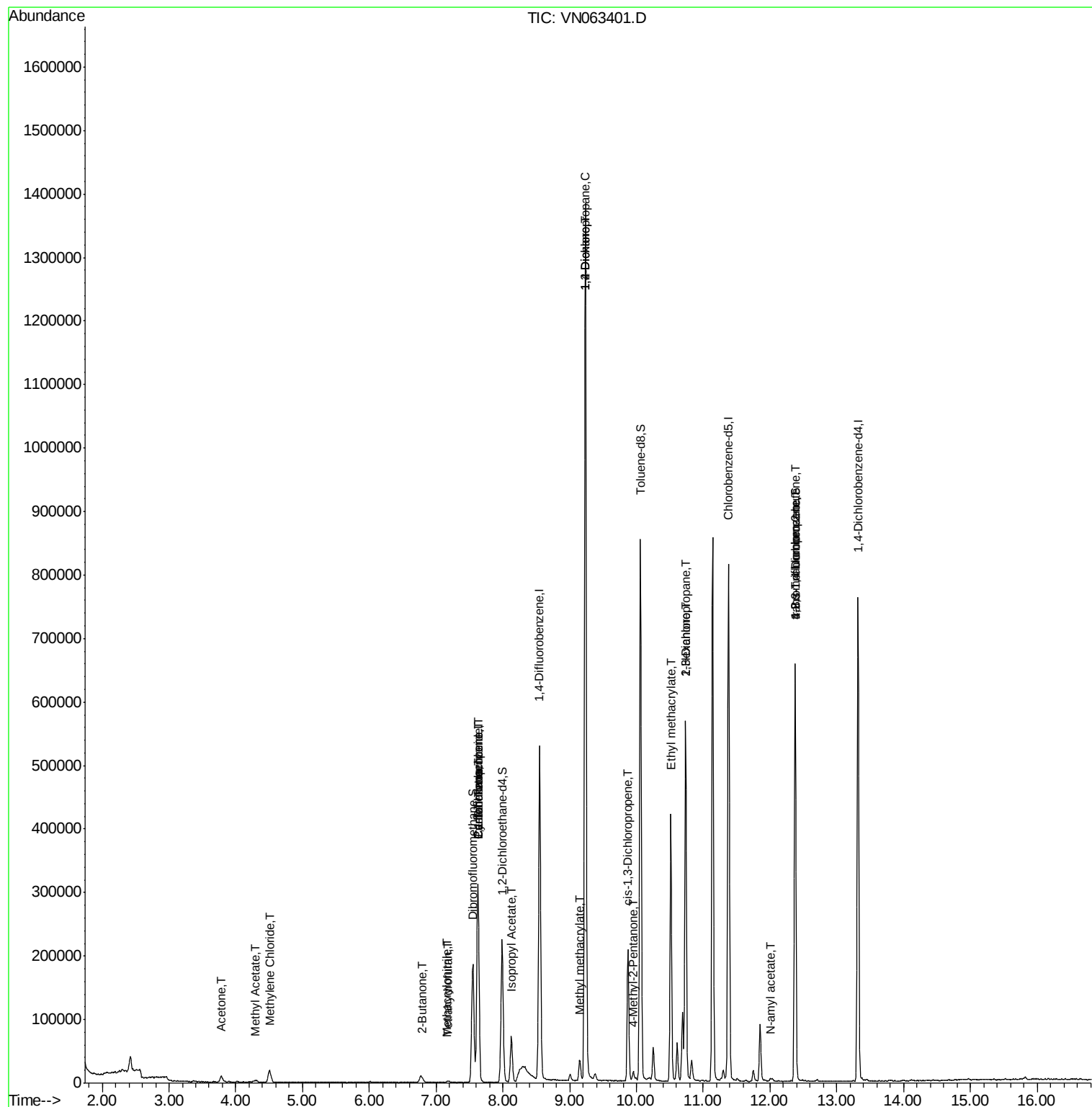
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	16475	13.105	ug/l	100
18) Methyl Acetate	4.29	43	5363	1.680	ug/l #	85
20) Methylene Chloride	4.51	84	12858	4.037	ug/l	94
25) 2-Butanone	6.80	43	5024	2.599	ug/l	92
29) Tetrahydrofuran	7.18	42	1202	0.910	ug/l #	59
31) Cyclohexane	7.63	56	6712	1.242	ug/l #	22
36) 1,1-Dichloropropene	7.63	75	21864	4.792	ug/l #	51
38) Carbon Tetrachloride	7.63	117	26322	5.652	ug/l #	16
41) Methacrylonitrile	7.16	41	477	0.237	ug/l #	100
43) Isopropyl Acetate	8.13	43	87594	10.940	ug/l	100
45) 1,2-Dichloropropane	9.24	63	1555	0.438	ug/l #	43
48) Methyl methacrylate	9.14	41	5185	1.318	ug/l #	15
49) 1,4-Dioxane	9.24	88	63	1.116	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	10503	2.343	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	35411	6.209	ug/l #	61
56) Ethyl methacrylate	10.51	69	1313	0.270	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5491	0.979	ug/l #	42
59) 2-Hexanone	10.74	43	86519	26.642	ug/l #	56
74) N-amyl acetate	12.01	43	2499	0.364	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	123638	27.602	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	123638	75.675	ug/l #	7

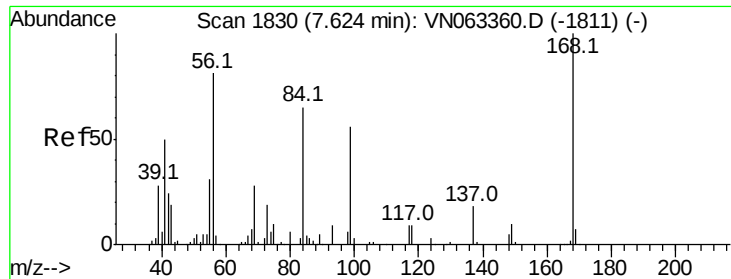
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063401.D

Acq: 17 Sep 2020 6:39

Instrument :

MSVOA_N

ClientSampleId :

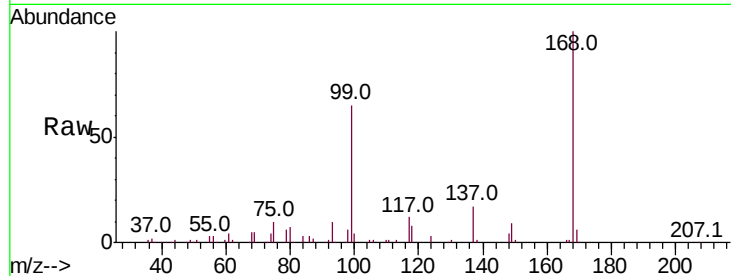
REACTOR-6E-(C-4)

Tot Ion:168 Resp: 229787

Ion Ratio Lower Upper

168 100

99 64.6 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

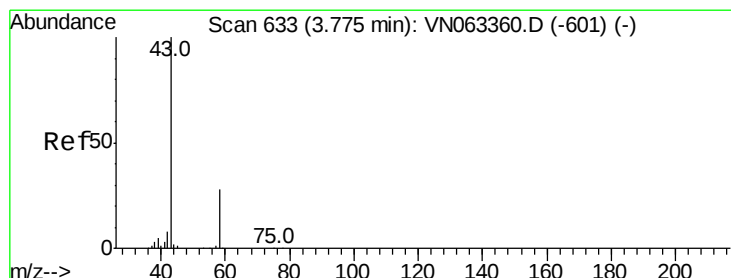
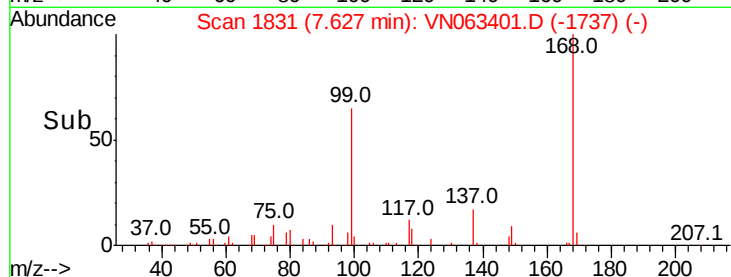
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 13.105 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN063401.D

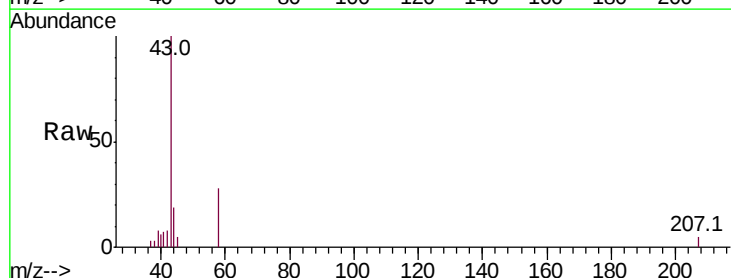
Acq: 17 Sep 2020 6:39

Tgt Ion: 43 Resp: 16475

Ion Ratio Lower Upper

43 100

58 28.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.79

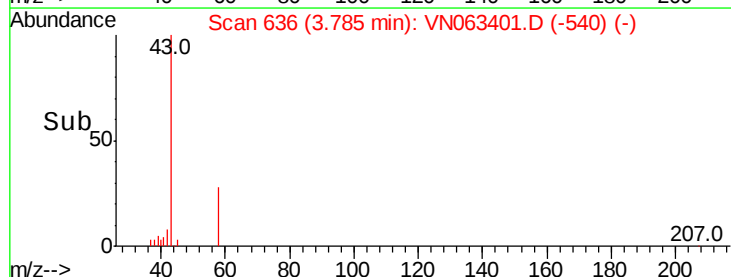
6000

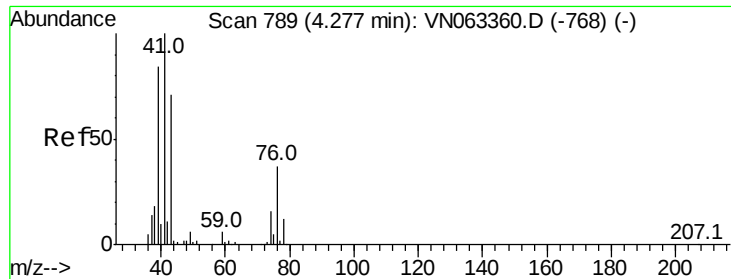
4000

2000

0

Time--> 3.70 3.75 3.80 3.85

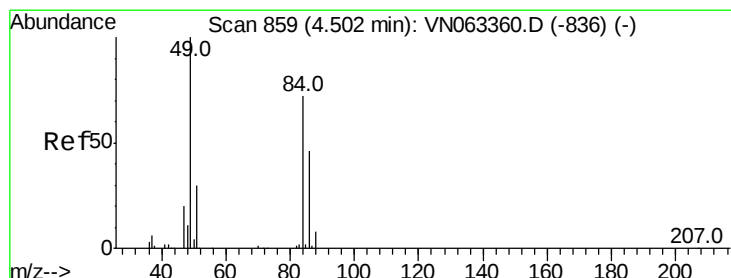
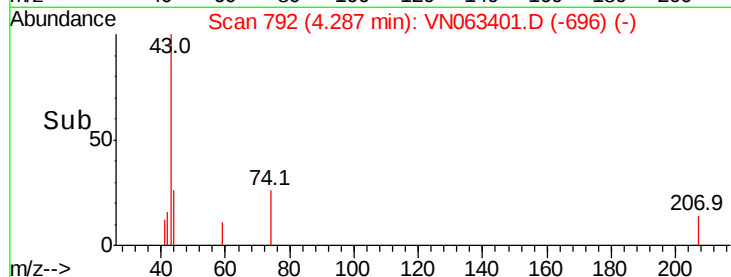
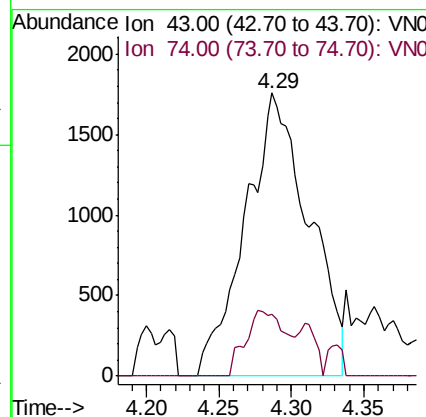
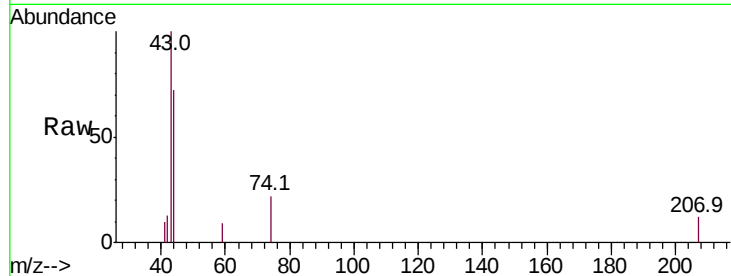




#18
Methvl Acetate
Concen: 1.680 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063401.D
Acq: 17 Sep 2020 6:39

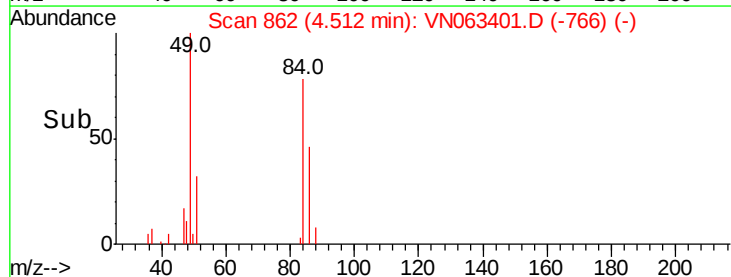
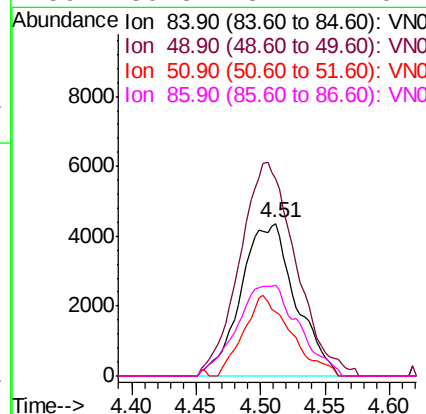
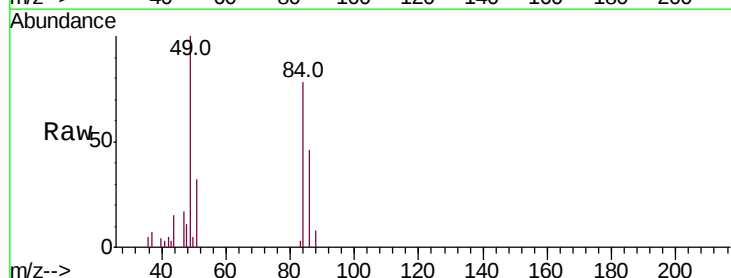
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(C-4)

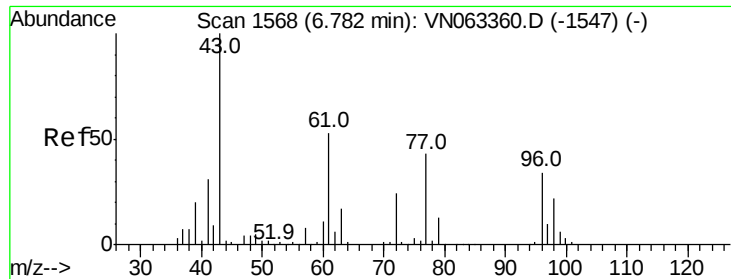
Tot Ion: 43 Resp: 5363
Ion Ratio Lower Upper
43 100
74 14.7 17.4 26.2#



#20
Methylene Chloride
Concen: 4.037 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN063401.D
Acq: 17 Sep 2020 6:39

Tgt Ion: 84 Resp: 12858
Ion Ratio Lower Upper
84 100
49 128.9 110.7 166.1
51 41.5 32.9 49.3
86 59.3 51.1 76.7





#25

2-Butanone

Concen: 2.599 ug/l

RT: 6.80 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN063401.D

Acq: 17 Sep 2020 6:39

Instrument :

MSVOA_N

ClientSampleId :

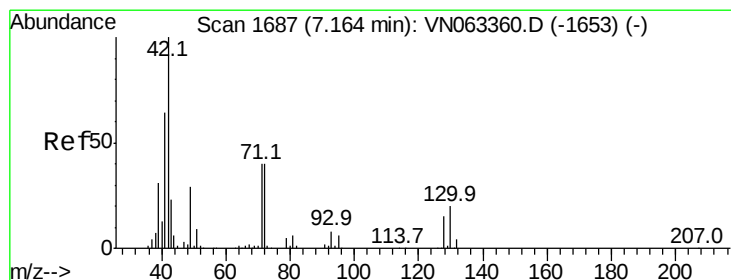
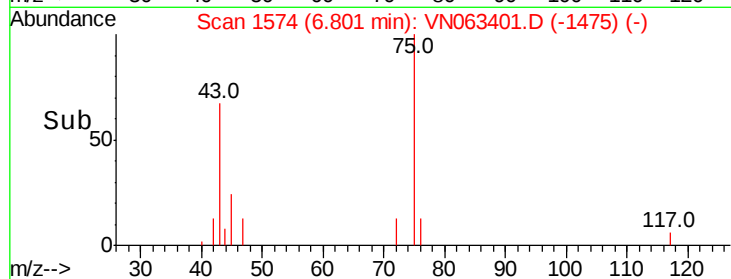
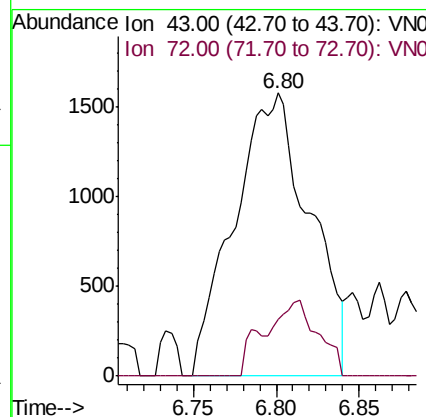
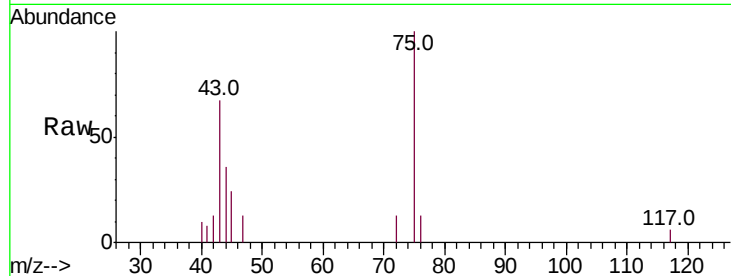
REACTOR-6E-(C-4)

Tot Ion: 43 Resp: 5024

Ion Ratio Lower Upper

43 100

72 20.1 19.2 28.8



#29

Tetrahydrofuran

Concen: 0.910 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN063401.D

Acq: 17 Sep 2020 6:39

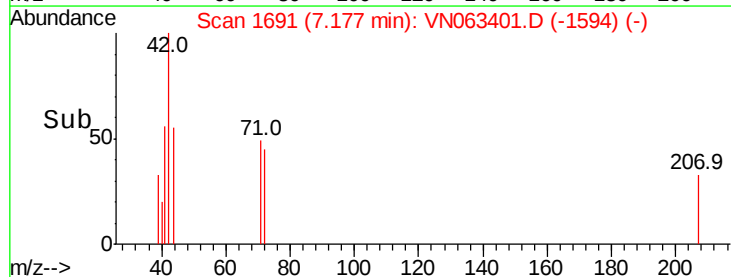
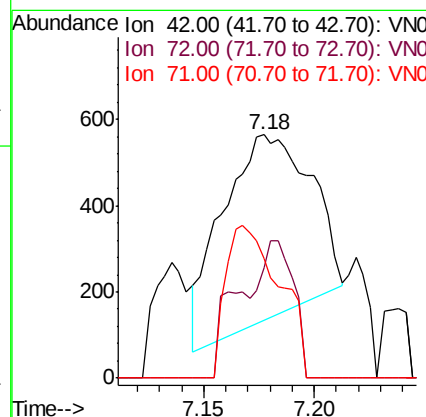
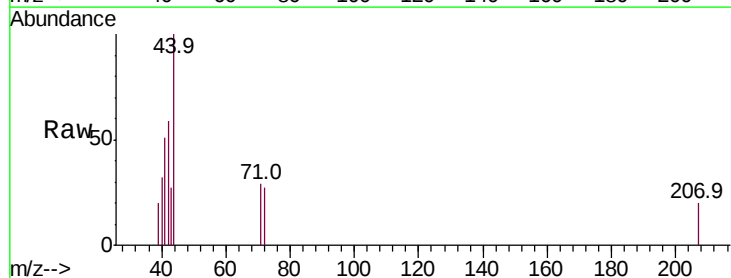
Tgt Ion: 42 Resp: 1202

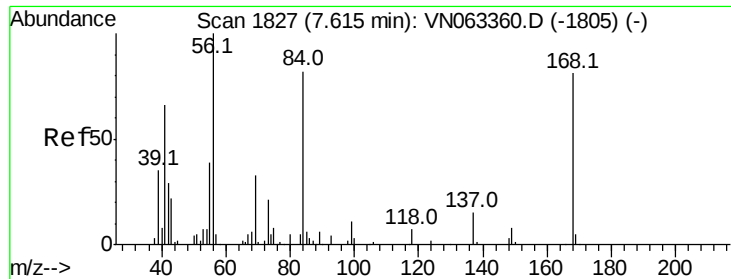
Ion Ratio Lower Upper

42 100

72 28.7 32.1 48.1#

71 0.0 31.2 46.8#

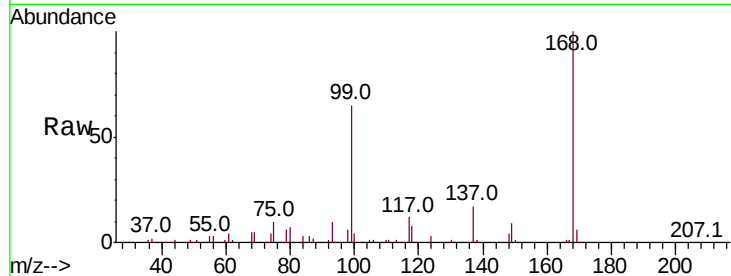




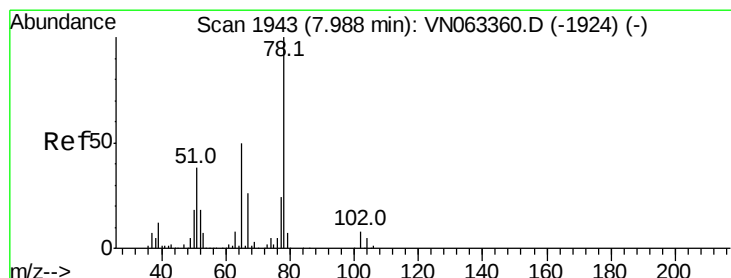
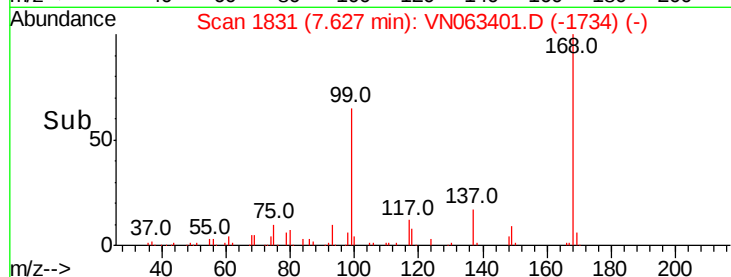
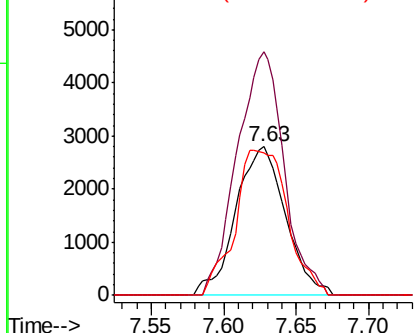
#31
Cyclohexane
Concen: 1.242 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063401.D
Acq: 17 Sep 2020 6:39

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(C-4)

Tot Ion: 56 Resp: 6712
Ion Ratio Lower Upper
56 100
69 163.9 26.1 39.1#
84 95.6 65.4 98.2

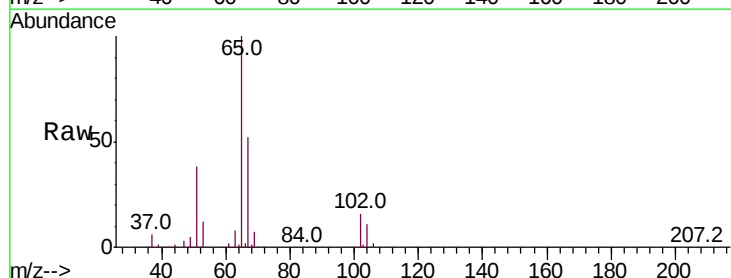


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

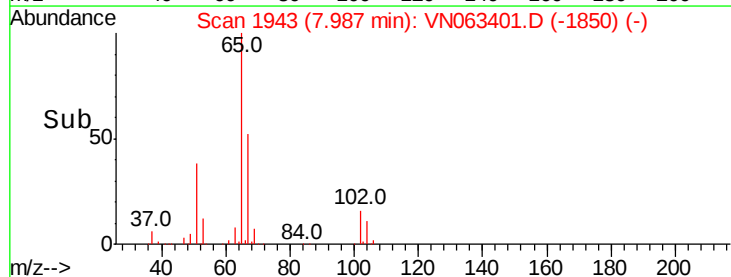
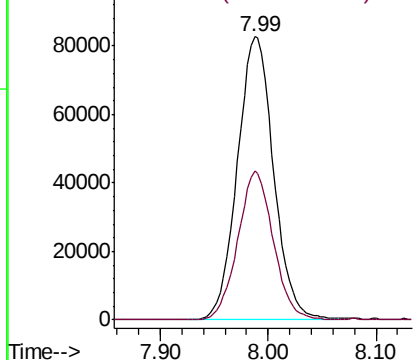


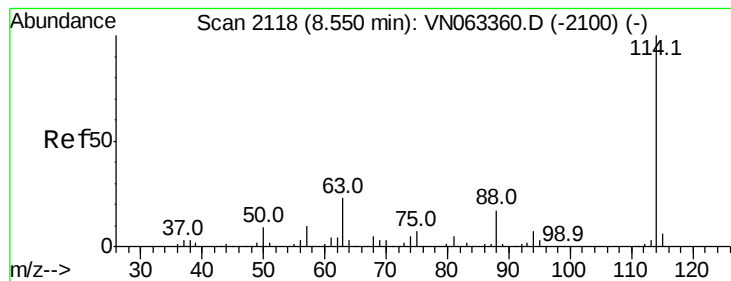
#33
1,2-Dichloroethane-d4
Concen: 49.501 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063401.D
Acq: 17 Sep 2020 6:39

Tgt Ion: 65 Resp: 193629
Ion Ratio Lower Upper
65 100
67 51.5 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: VN063401.D

Acq: 17 Sep 2020 6:39

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(C-4)

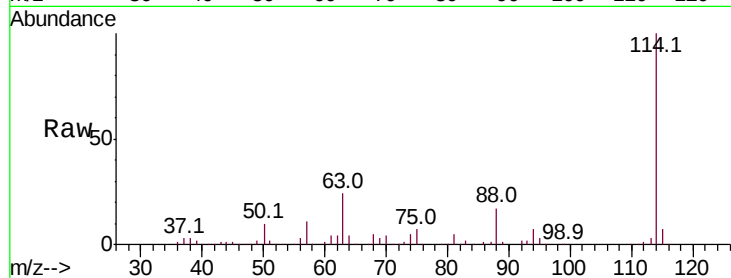
Tot Ion:114 Resp: 428251

Ion Ratio Lower Upper

114 100

63 24.1 0.0 46.4

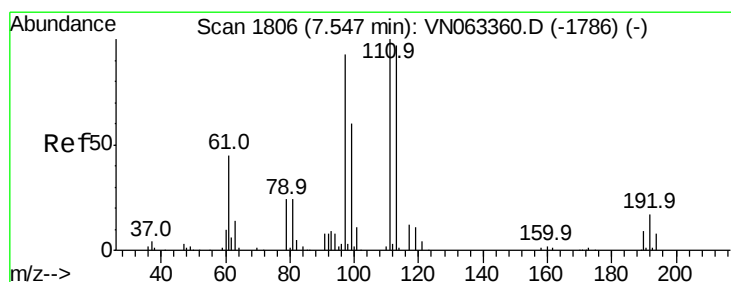
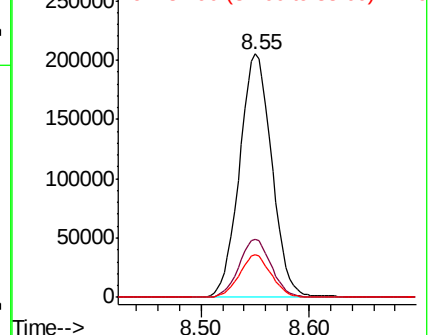
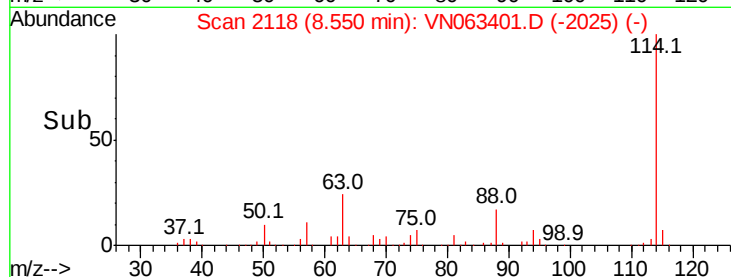
88 17.3 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 48.142 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063401.D

Acq: 17 Sep 2020 6:39

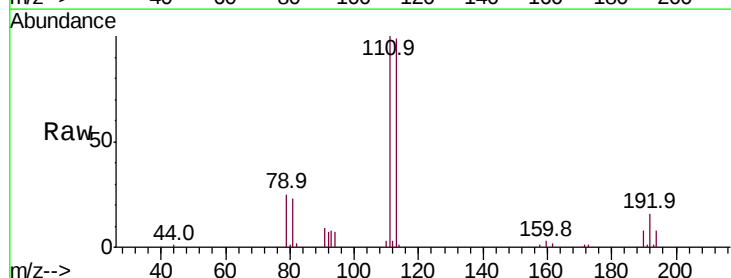
Tgt Ion:113 Resp: 142727

Ion Ratio Lower Upper

113 100

111 100.3 82.9 124.3

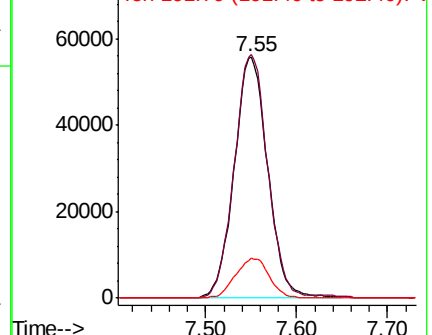
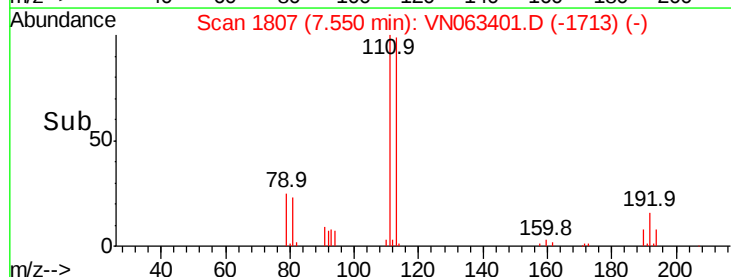
192 16.5 13.9 20.9

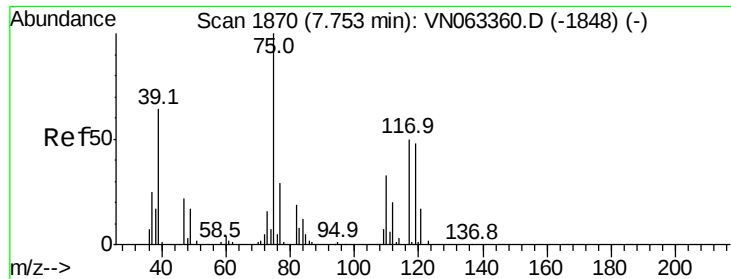


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

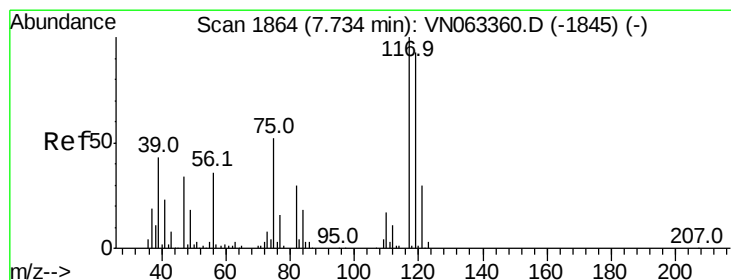
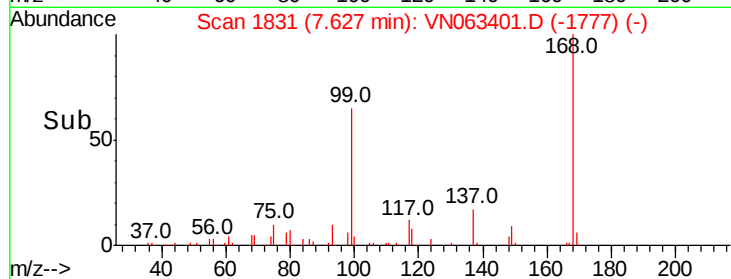
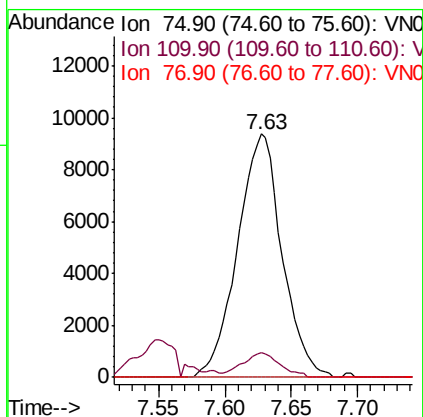
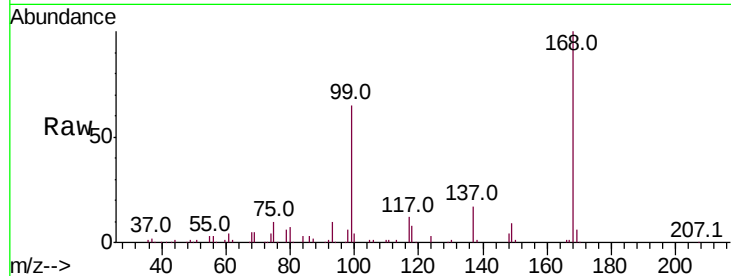




#36
 1,1-Dichloropropene
 Concen: 4.792 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063401.D
 Acq: 17 Sep 2020 6:39

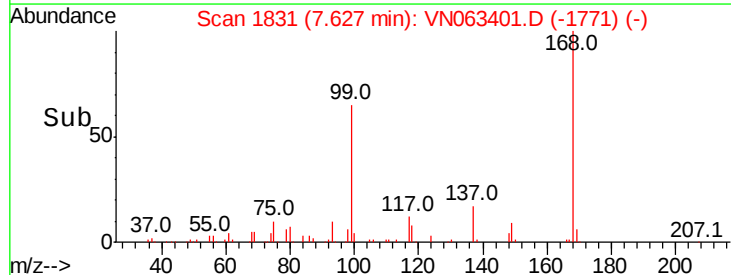
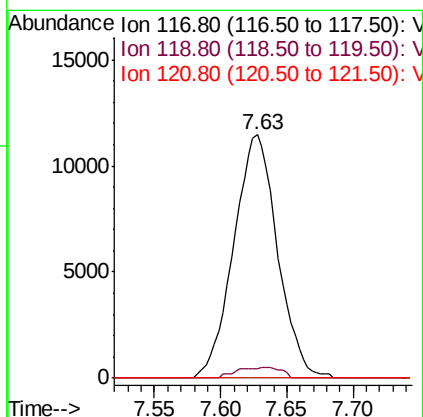
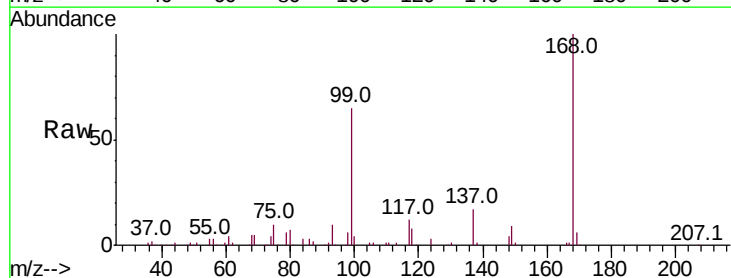
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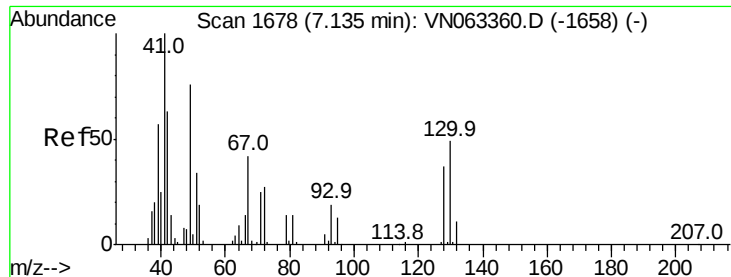
Tot Ion: 75 Resp: 21864
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.5 49.5#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 5.652 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063401.D
 Acq: 17 Sep 2020 6:39

Tgt Ion: 117 Resp: 26322
 Ion Ratio Lower Upper
 117 100
 119 4.1 74.5 111.7#
 121 0.0 24.1 36.1#

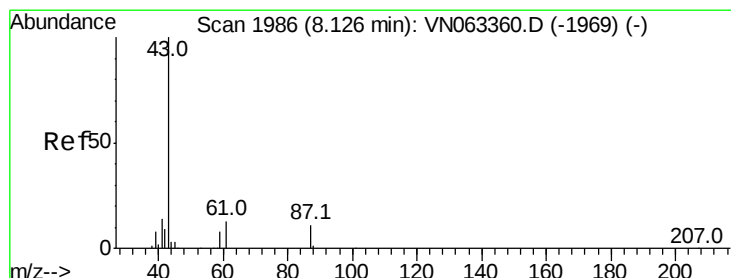
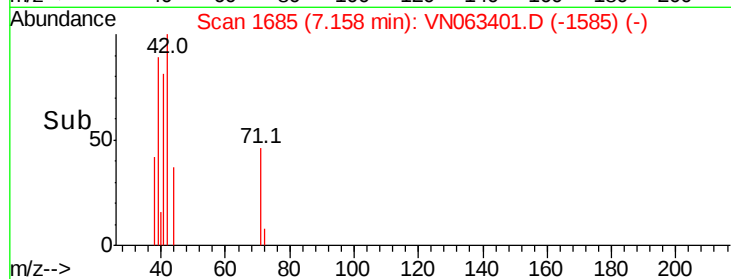
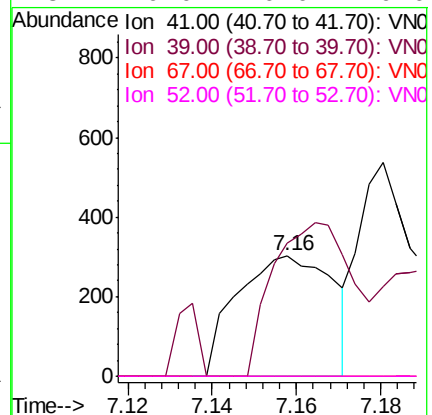
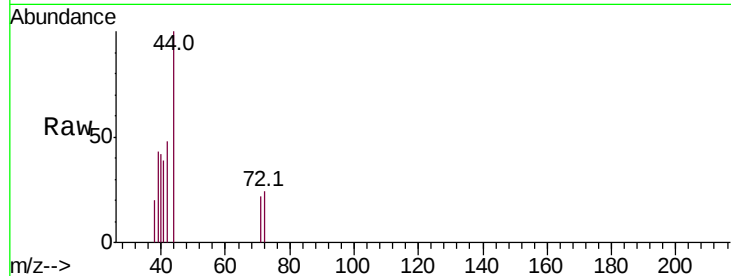




#41
Methacrylonitrile
Concen: 0.237 ug/l
RT: 7.16 min Scan# 1685
Delta R.T. 0.02 min
Lab File: VN063401.D
Acq: 17 Sep 2020 6:39

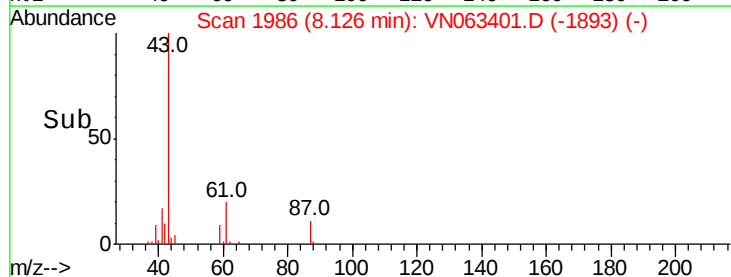
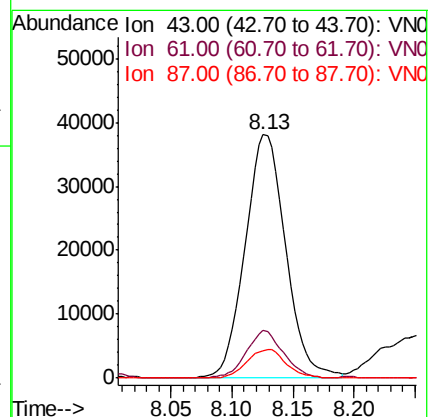
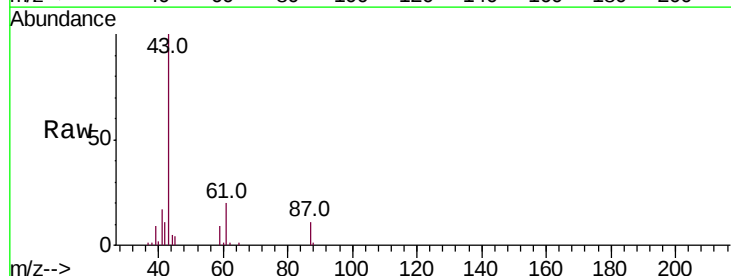
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(C-4)

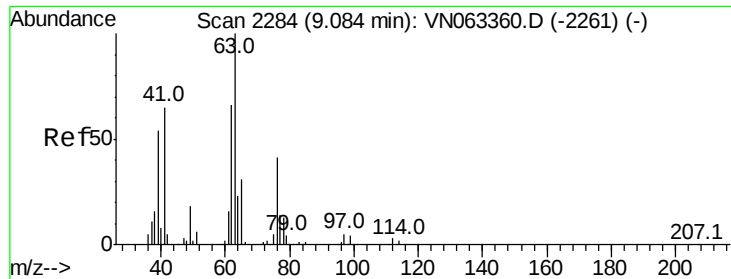
Tot Ion:	41	Resp:	477
Ion	Ratio	Lower	Upper
41	100		
39	107.1	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 10.940 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN063401.D
Acq: 17 Sep 2020 6:39

Tgt Ion:	43	Resp:	87594
Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.2	21.2
87	11.3	9.0	13.6





#45

1,2-Dichloropropane

Concen: 0.438 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063401.D

Acq: 17 Sep 2020 6:39

Instrument :

MSVOA_N

ClientSampleId :

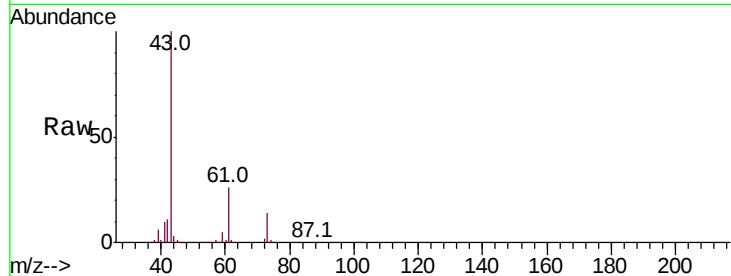
REACTOR-6E-(C-4)

Tot Ion: 63 Resp: 1555

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

9.24

1000

800

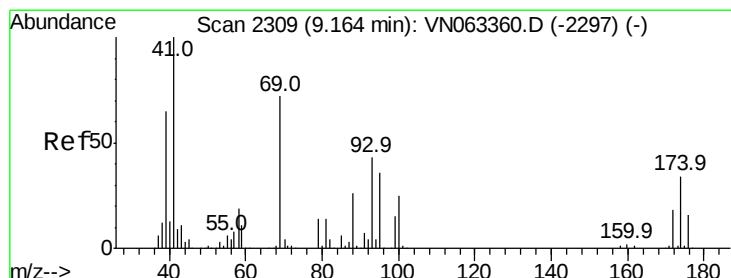
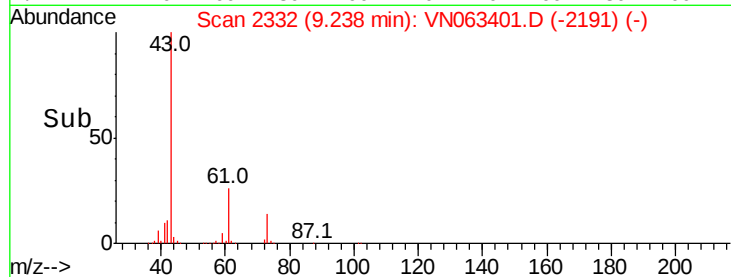
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.318 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063401.D

Acq: 17 Sep 2020 6:39

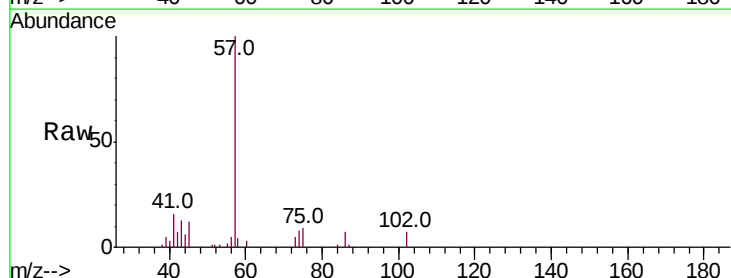
Tgt Ion: 41 Resp: 5185

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

50000

40000

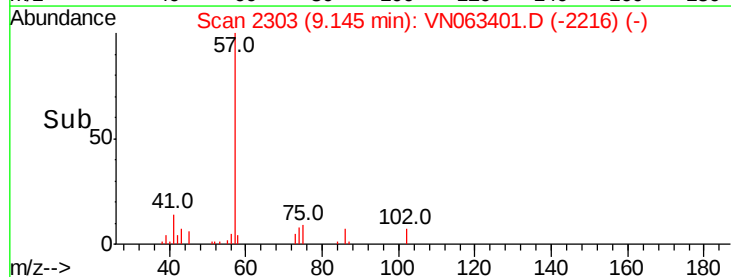
30000

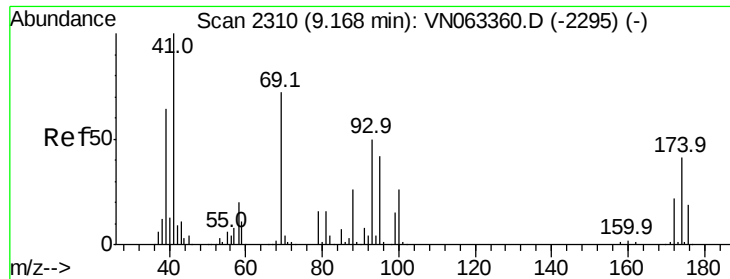
20000

10000

0

Time-->





#49

1,4-Dioxane

Concen: 1.116 ug/l

RT: 9.24 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063401.D

Acq: 17 Sep 2020 6:39

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(C-4)

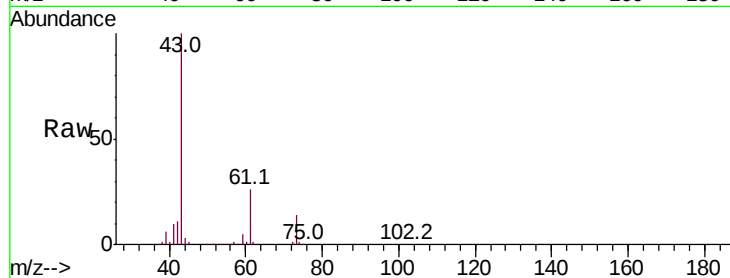
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 2189420.6 32.6 49.0#

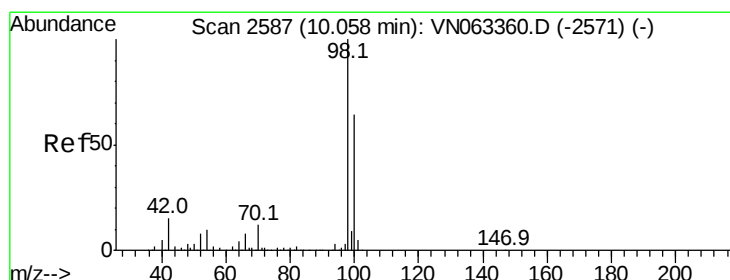
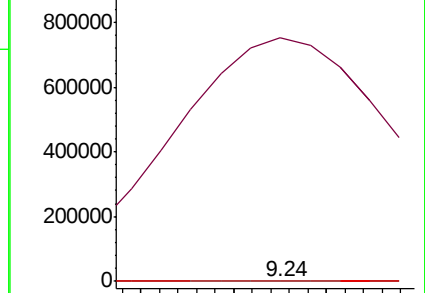
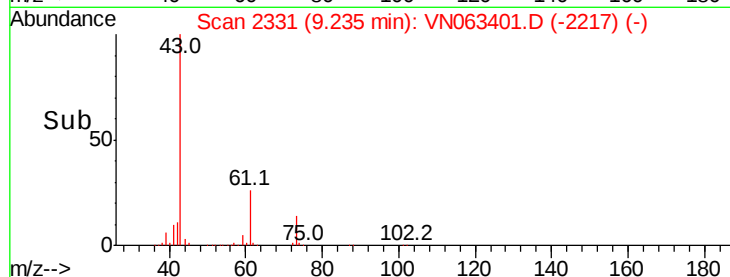
58 9096.8 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN063360.D (-2295) (-)

Ion 43.00 (42.70 to 43.70): VN063360.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2295) (-)



#50

Toluene-d8

Concen: 50.300 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063401.D

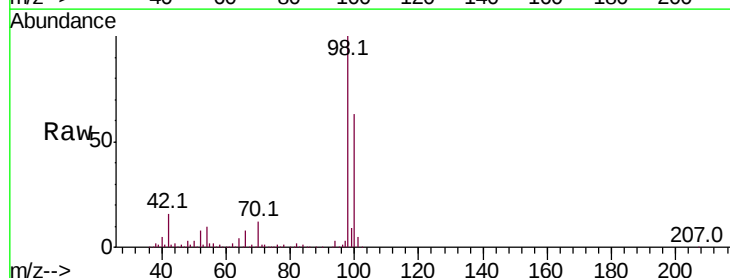
Acq: 17 Sep 2020 6:39

Tgt Ion: 98 Resp: 560735

Ion Ratio Lower Upper

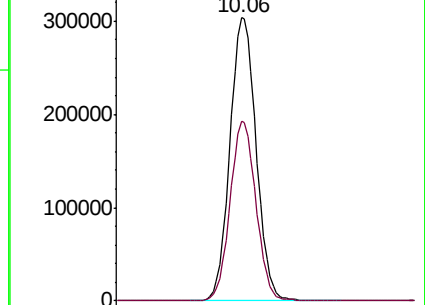
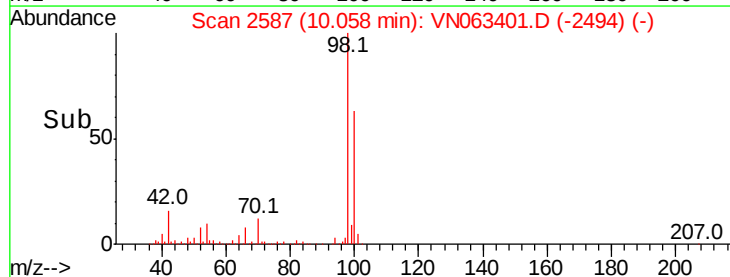
98 100

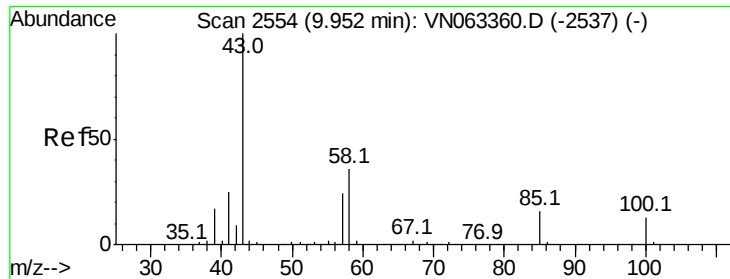
100 62.8 50.7 76.1



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

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





#51

4-Methyl-2-Pentanone

Concen: 2.343 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063401.D

Acq: 17 Sep 2020 6:39

Instrument :

MSVOA_N

ClientSampleId :

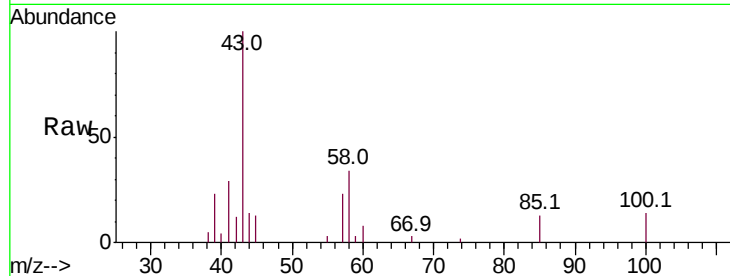
REACTOR-6E-(C-4)

Tot Ion: 43 Resp: 10503

Ion Ratio Lower Upper

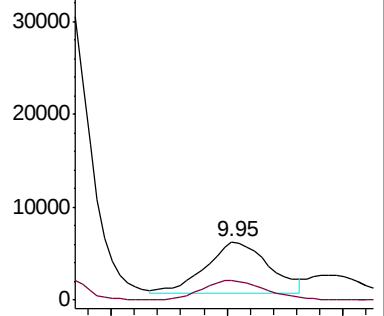
43 100

58 38.6 29.0 43.6

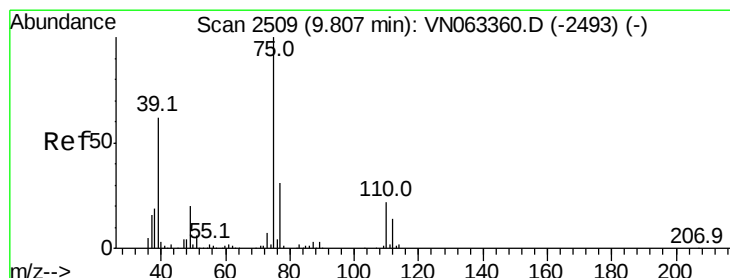
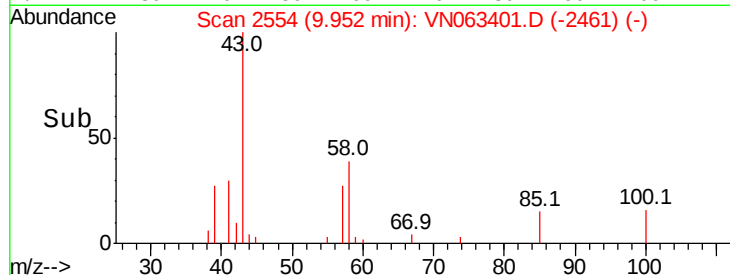


Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)

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



Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.209 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063401.D

Acq: 17 Sep 2020 6:39

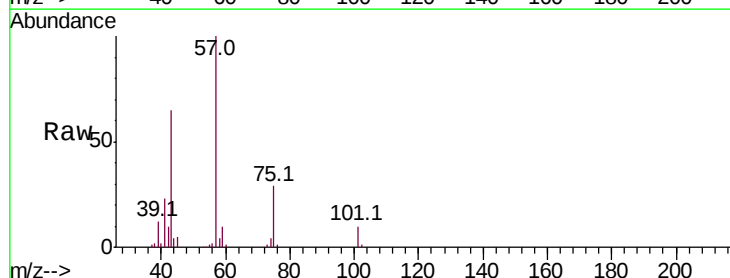
Tgt Ion: 75 Resp: 35411

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

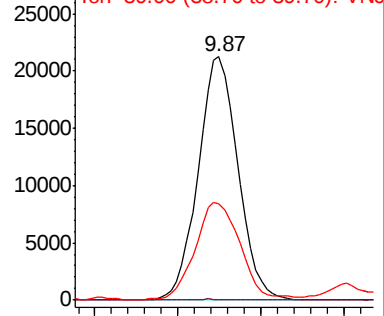
39 38.6 49.8 74.8#



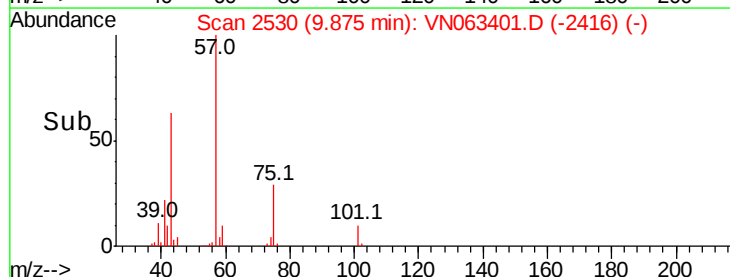
Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)

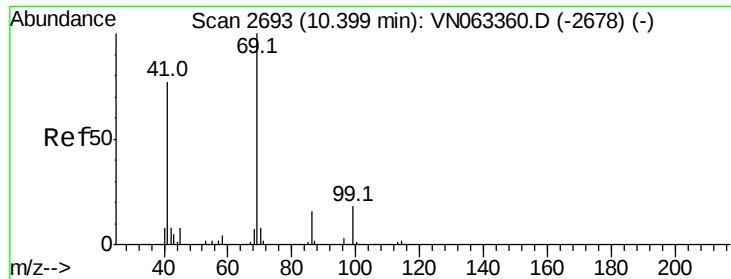
Ion 76.90 (76.60 to 77.60): VN063360.D (-2493) (-)

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



Time-->





#56

Ethyl methacrylate

Concen: 0.270 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063401.D

Acq: 17 Sep 2020 6:39

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(C-4)

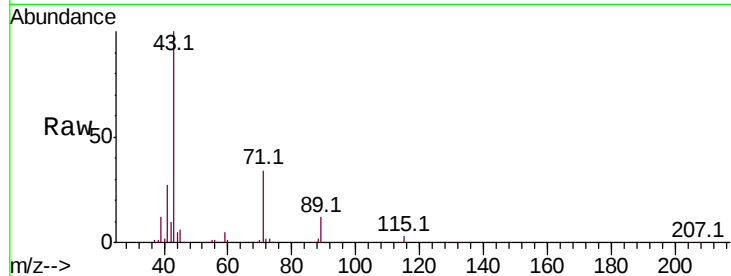
Tot Ion: 69 Resp: 1313

Ion Ratio Lower Upper

69 100

41 6536.4 61.0 91.6#

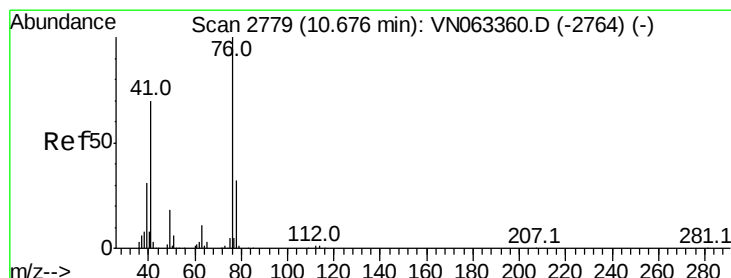
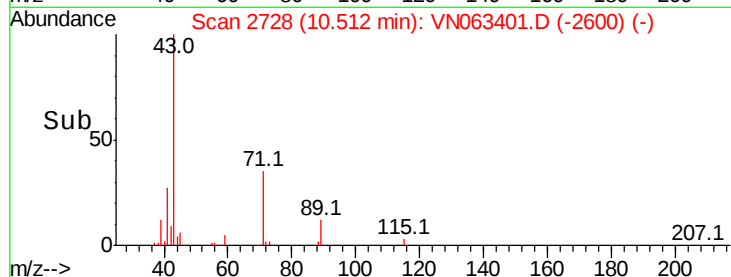
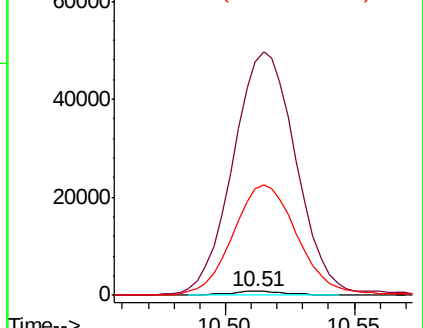
39 3013.1 39.2 58.8#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.979 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN063401.D

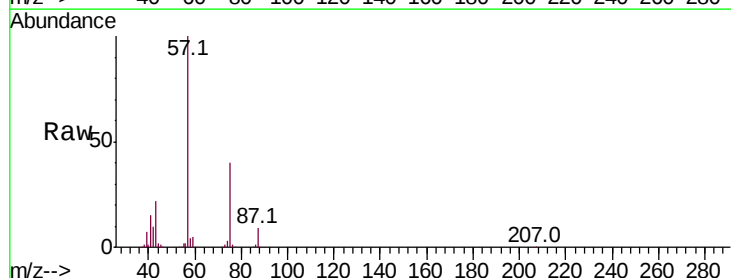
Acq: 17 Sep 2020 6:39

Tgt Ion: 76 Resp: 5491

Ion Ratio Lower Upper

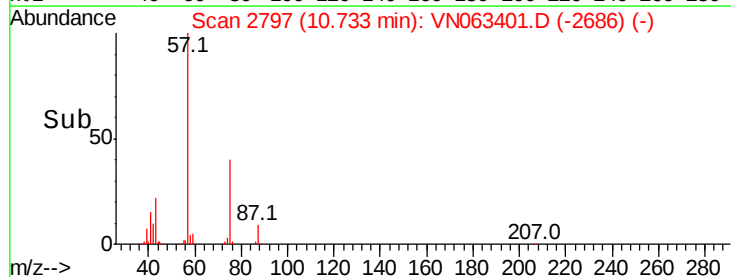
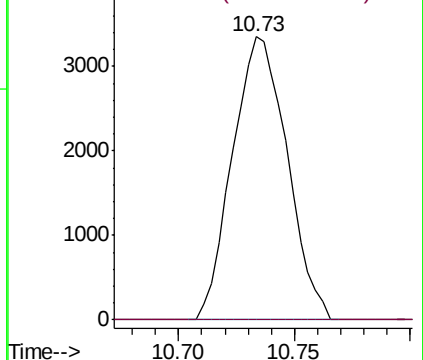
76 100

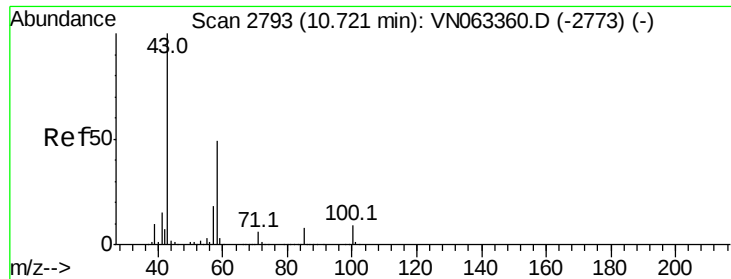
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 26.642 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063401.D

Acq: 17 Sep 2020 6:39

Instrument :

MSVOA_N

ClientSampleId :

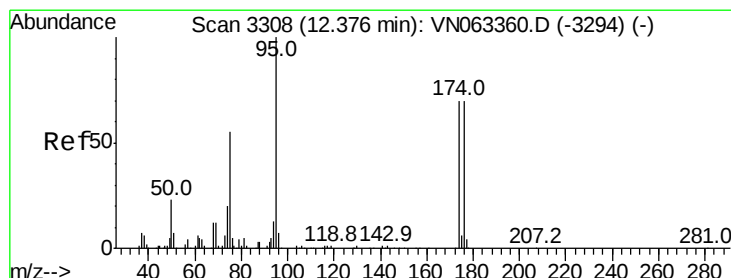
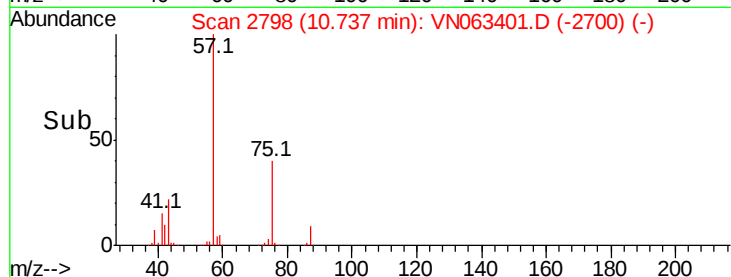
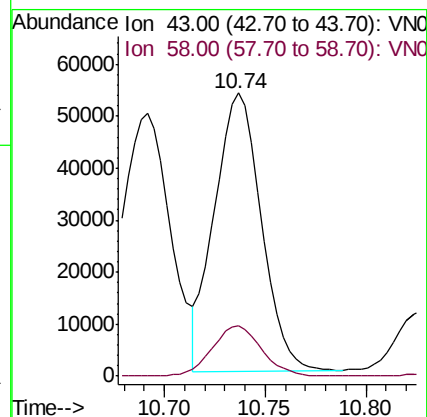
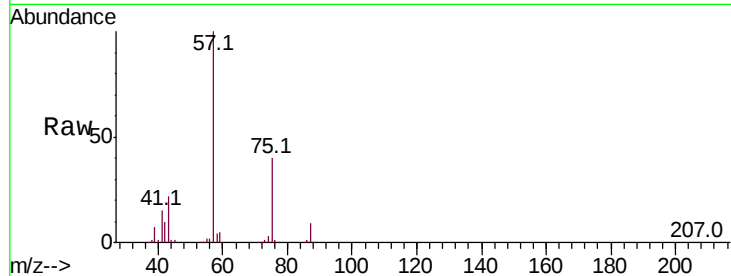
REACTOR-6E-(C-4)

Tot Ion: 43 Resp: 86519

Ion Ratio Lower Upper

43 100

58 19.0 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 53.678 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063401.D

Acq: 17 Sep 2020 6:39

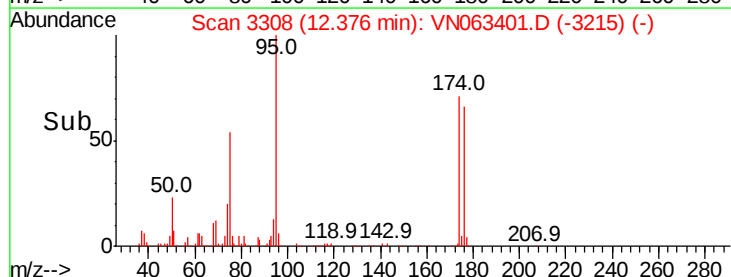
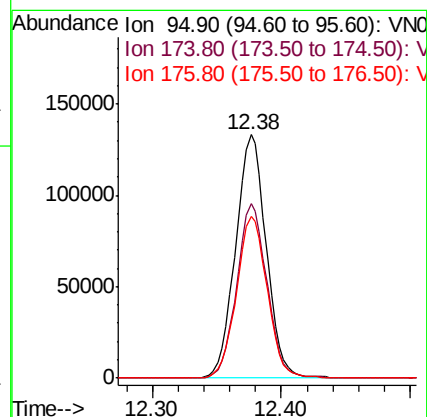
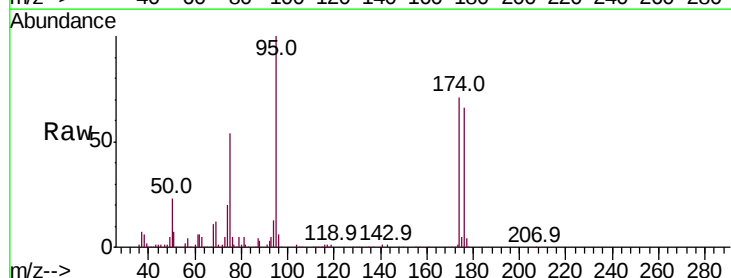
Tgt Ion: 95 Resp: 219361

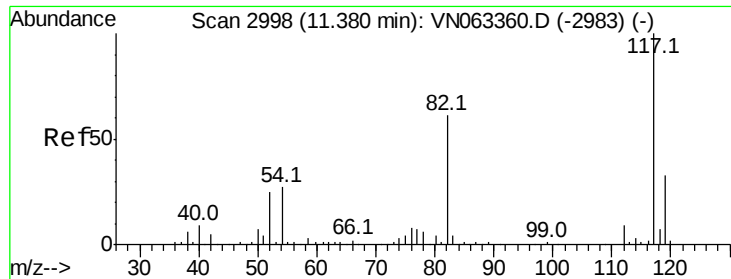
Ion Ratio Lower Upper

95 100

174 70.7 0.0 140.8

176 67.1 0.0 137.6

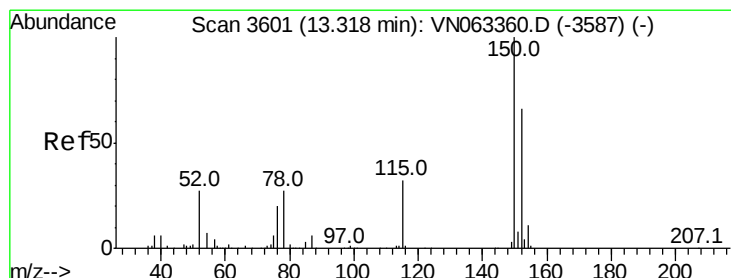
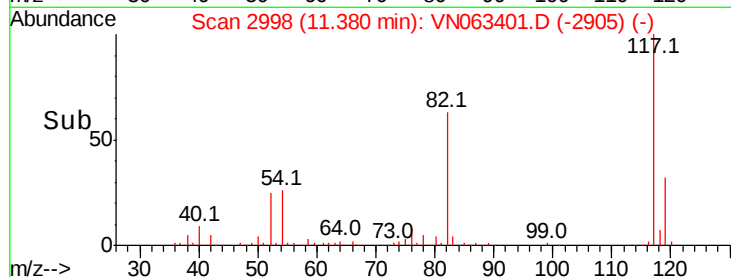
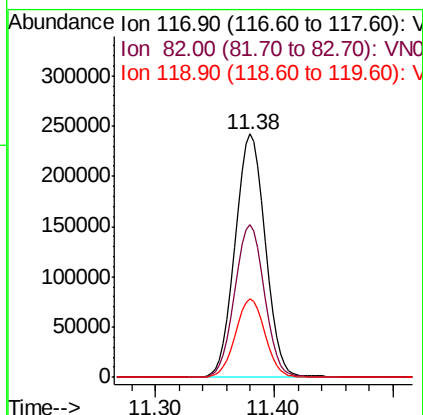
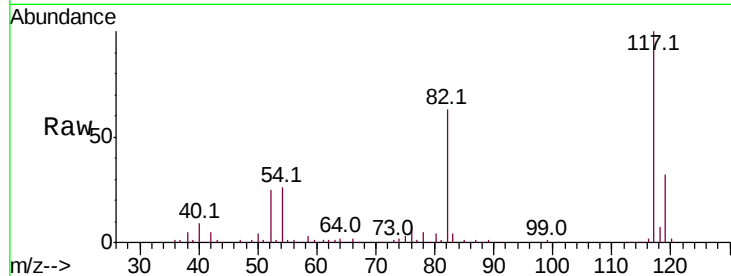




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063401.D
Acq: 17 Sep 2020 6:39

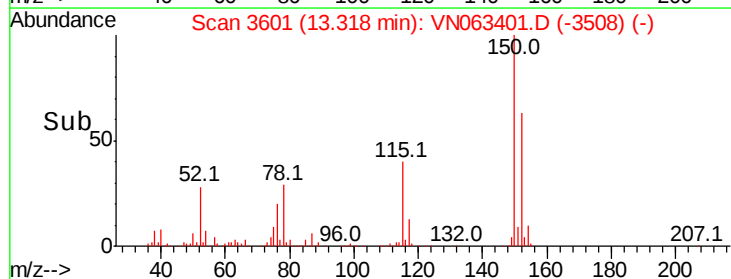
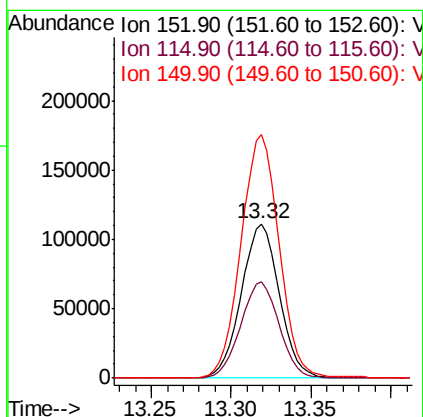
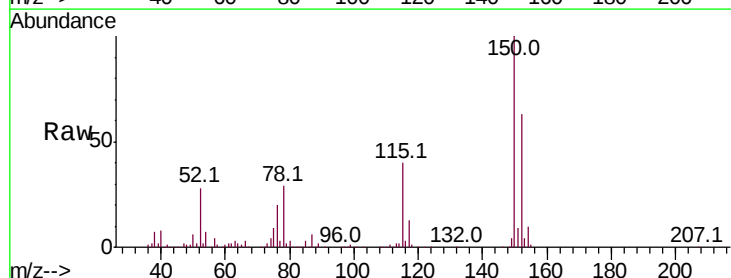
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(C-4)

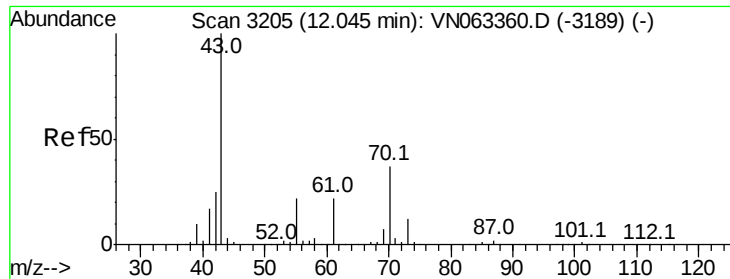
Tot Ion:117 Resp: 426555
Ion Ratio Lower Upper
117 100
82 62.7 49.2 73.8
119 32.1 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063401.D
Acq: 17 Sep 2020 6:39

Tgt Ion:152 Resp: 180971
Ion Ratio Lower Upper
152 100
115 63.4 32.2 96.6
150 157.9 0.0 343.4

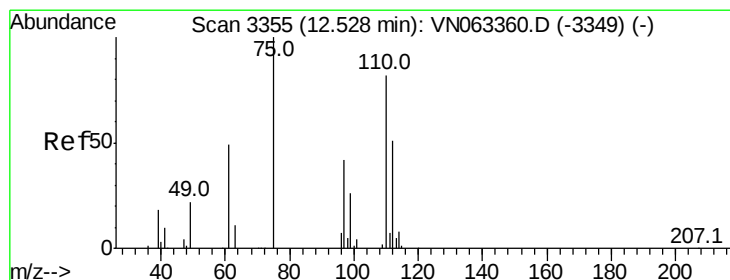
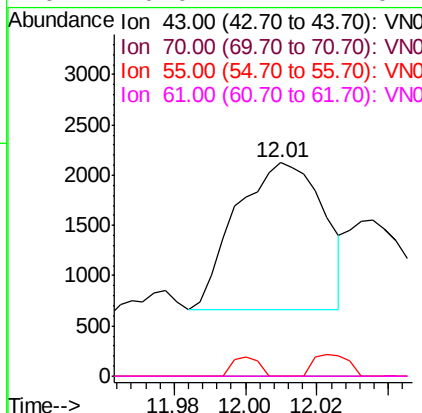
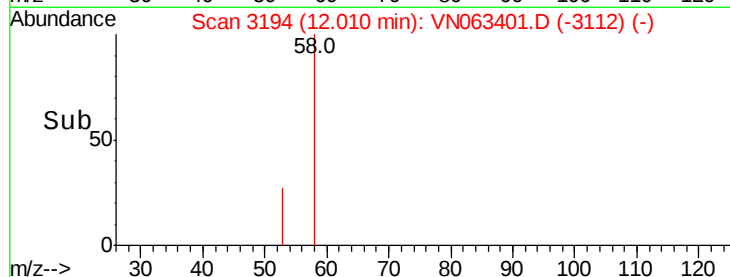
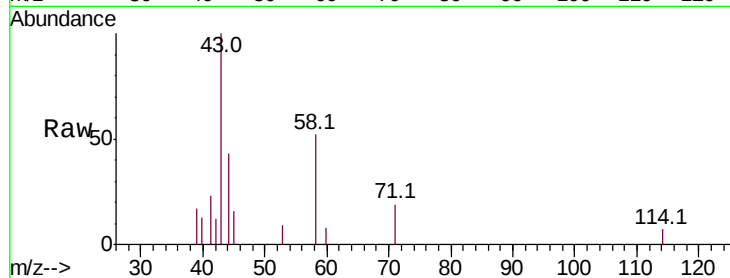




#74
N-amvl acetate
Concen: 0.364 ug/l
RT: 12.01 min Scan# 3194
Delta R.T. -0.04 min
Lab File: VN063401.D
Acq: 17 Sep 2020 6:39

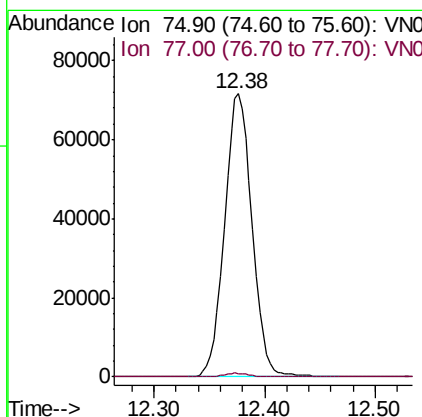
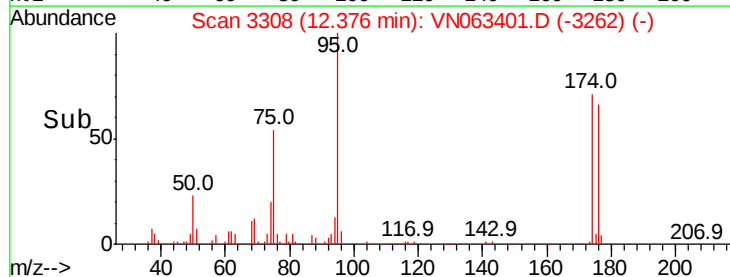
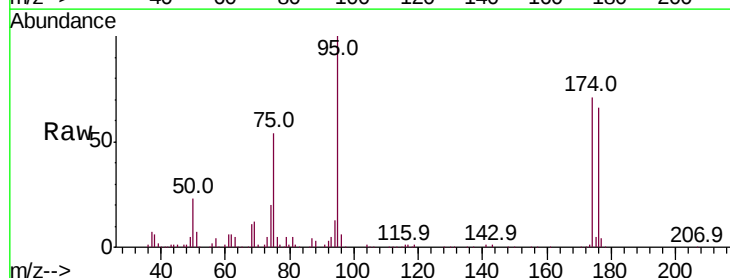
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(C-4)

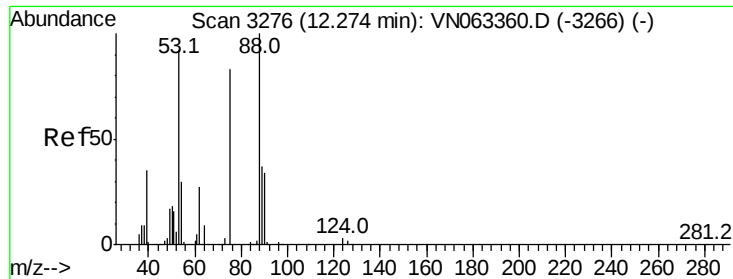
Tot Ion: 43 Resp: 2499
Ion Ratio Lower Upper
43 100
70 0.0 29.6 44.4#
55 4.1 17.7 26.5#
61 0.0 17.4 26.2#



#76
1,2,3-Trichloropropane
Concen: 27.602 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN063401.D
Acq: 17 Sep 2020 6:39

Tgt Ion: 75 Resp: 123638
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 75.675 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063401.D

Acq: 17 Sep 2020 6:39

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(C-4)

Tot Ion: 75 Resp: 123638

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

