

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063400.D
 Acq On : 17 Sep 2020 6:15
 Operator : JC/MD
 Sample : L4015-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

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

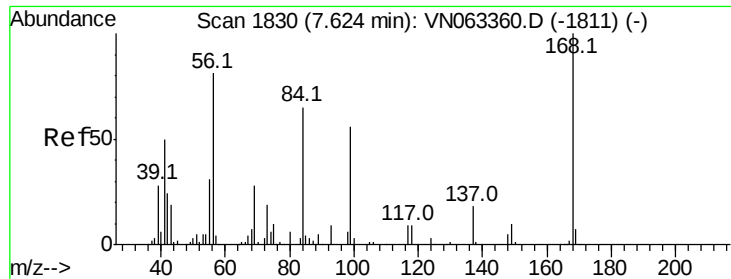
Quant Time: Sep 17 06:39:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	227080	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	428800	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	425877	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	184189	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	191763	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
35) Dibromofluoromethane	7.55	113	140261	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
50) Toluene-d8	10.06	98	557803	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
62) 4-Bromofluorobenzene	12.38	95	217079	53.05	ug/l	0.00
Spiked Amount			Recovery	=	106.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.49	56	63	0.317	ug/l #	13
16) Acetone	3.78	43	16284	13.108	ug/l	96
18) Methyl Acetate	4.29	43	4385	1.390	ug/l #	85
20) Methylene Chloride	4.51	84	13648	4.336	ug/l #	84
25) 2-Butanone	6.79	43	2542	1.330	ug/l #	88
29) Tetrahydrofuran	7.17	42	1416	1.085	ug/l #	78
31) Cyclohexane	7.62	56	6650	1.246	ug/l #	17
36) 1,1-Dichloropropene	7.62	75	22011	4.818	ug/l #	47
38) Carbon Tetrachloride	7.62	117	25050	5.372	ug/l #	16
43) Isopropyl Acetate	8.13	43	89120	11.116	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1535	0.432	ug/l #	43
48) Methyl methacrylate	9.15	41	6034	1.532	ug/l #	15
49) 1,4-Dioxane	9.23	88	160	2.831	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	9027	2.011	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	34170	5.983	ug/l #	64
56) Ethyl methacrylate	10.51	69	1437	0.296	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6312	1.124	ug/l #	42
59) 2-Hexanone	10.74	43	94403	29.033	ug/l #	54
74) N-amyl acetate	12.01	43	2579	0.369	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	121799	26.717	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	121799	73.247	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: VN063400.D

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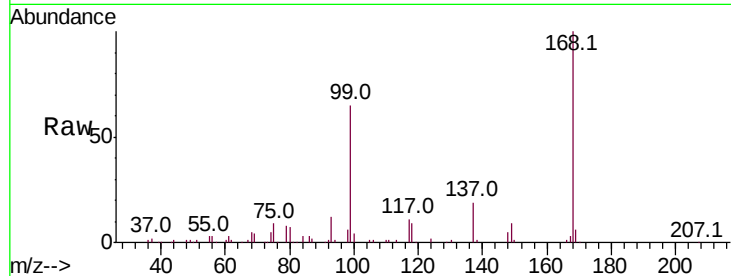
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(B-4)

Tot Ion:168 Resp: 227080

Ion Ratio Lower Upper

168 100

99 64.9 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

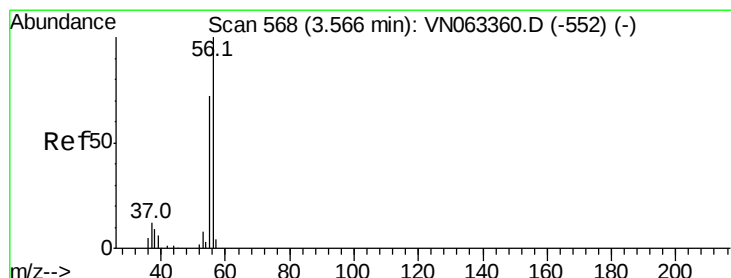
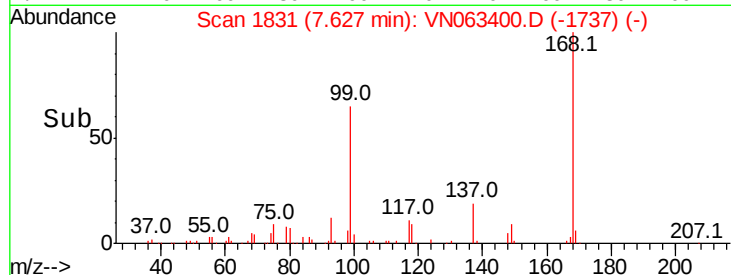
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#13

Acrolein

Concen: 0.317 ug/l

RT: 3.49 min Scan# 544

Delta R.T. -0.08 min

Lab File: VN063400.D

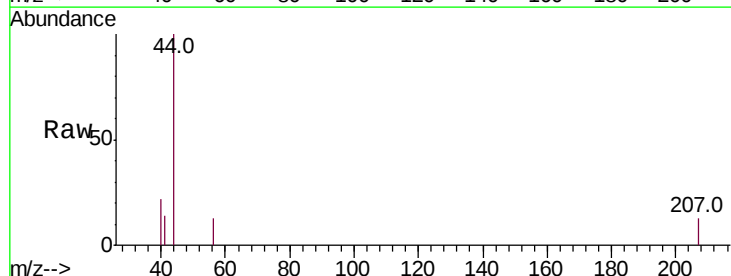
Acq: 17 Sep 2020 6:15

Tgt 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): VN

Ion 55.00 (54.70 to 55.70): VN

3.49

200

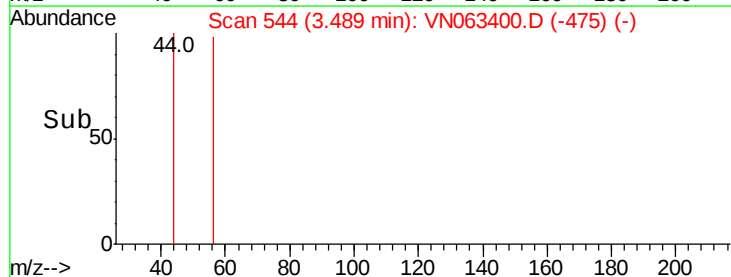
150

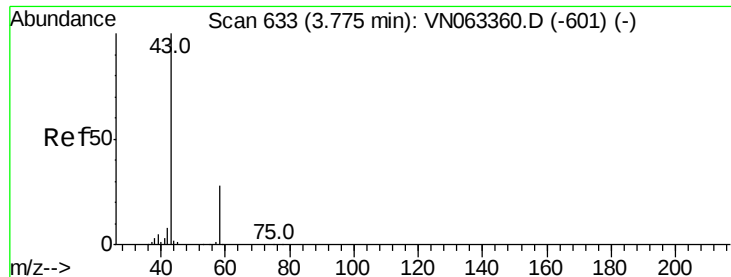
100

50

0

Time--> 3.48 3.49 3.50





#16

Acetone

Concen: 13.108 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN063400.D

Acq: 17 Sep 2020 6:15

Instrument :

MSVOA_N

ClientSampleId :

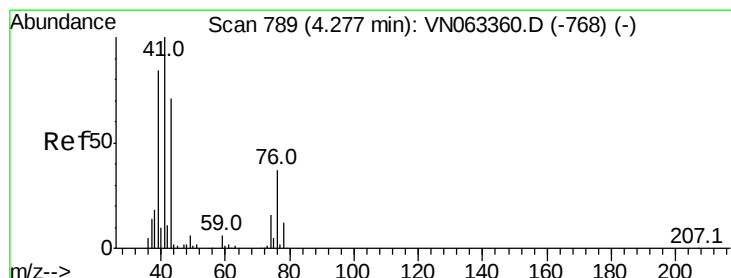
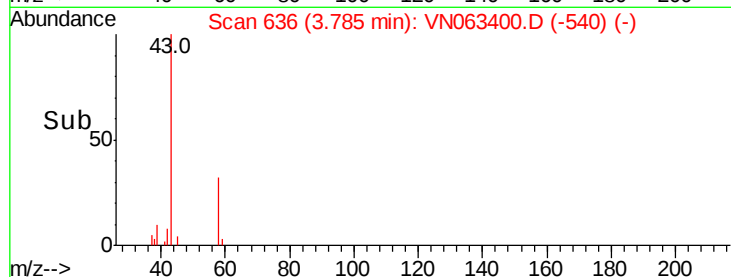
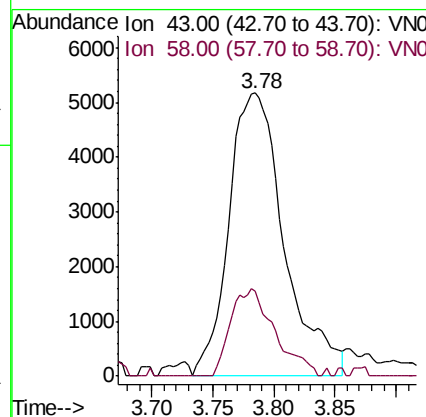
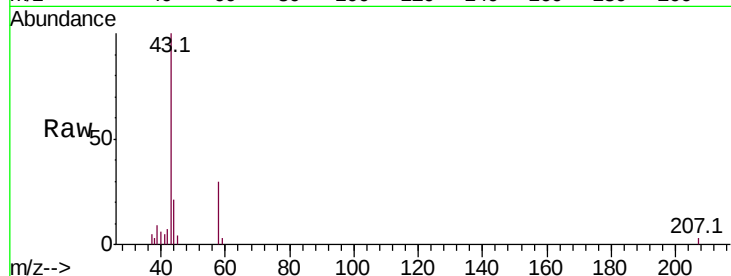
REACTOR-6E-(B-4)

Tot Ion: 43 Resp: 16284

Ion Ratio Lower Upper

43 100

58 30.2 22.3 33.5



#18

Methyl Acetate

Concen: 1.390 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN063400.D

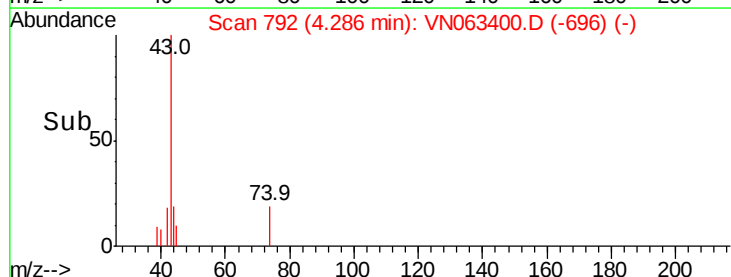
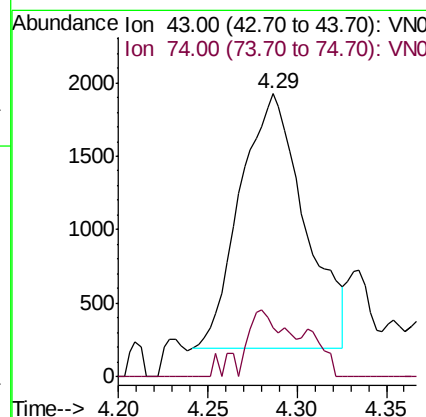
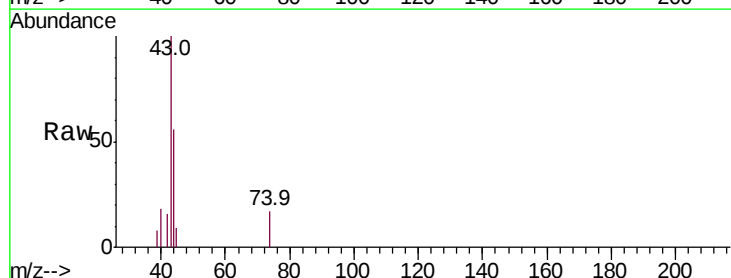
Acq: 17 Sep 2020 6:15

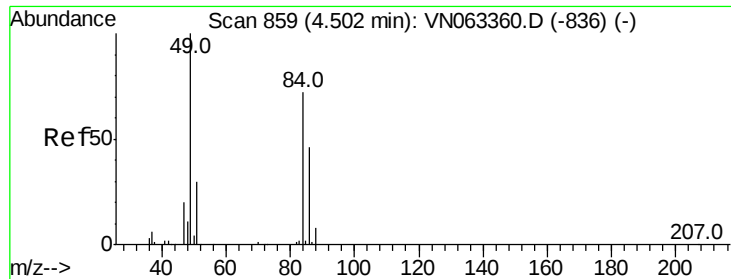
Tgt Ion: 43 Resp: 4385

Ion Ratio Lower Upper

43 100

74 14.7 17.4 26.2#

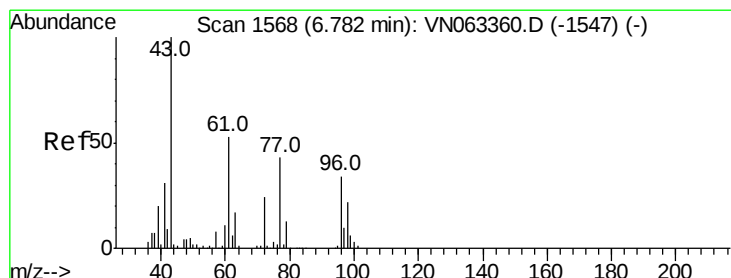
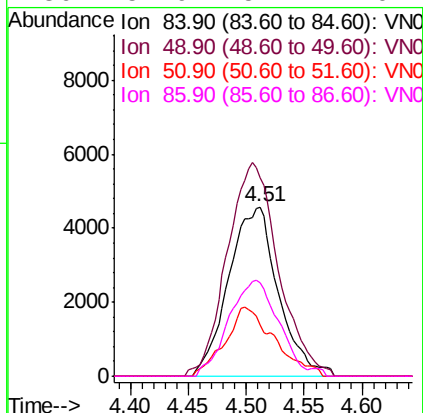
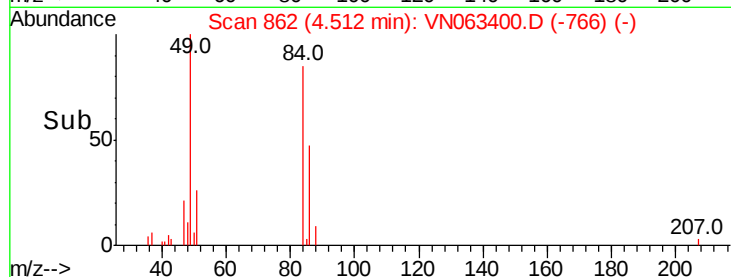
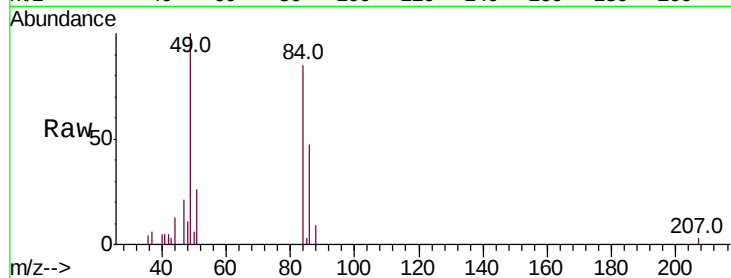




#20
Methylene Chloride
Concen: 4.336 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN063400.D
Acq: 17 Sep 2020 6:15

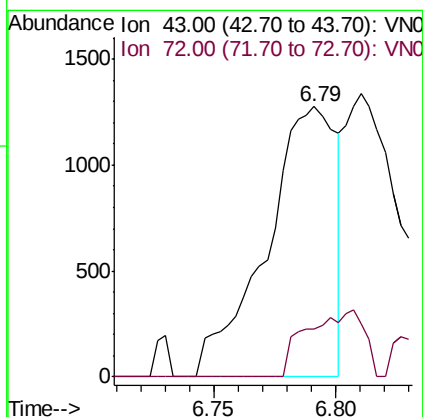
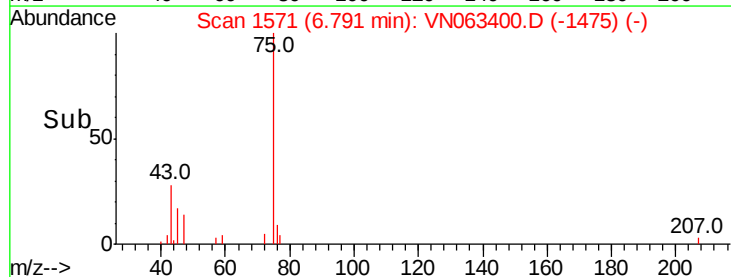
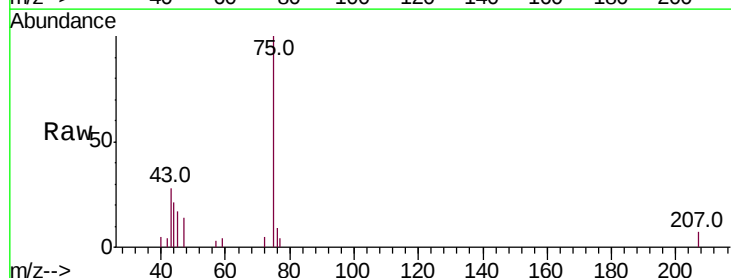
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(B-4)

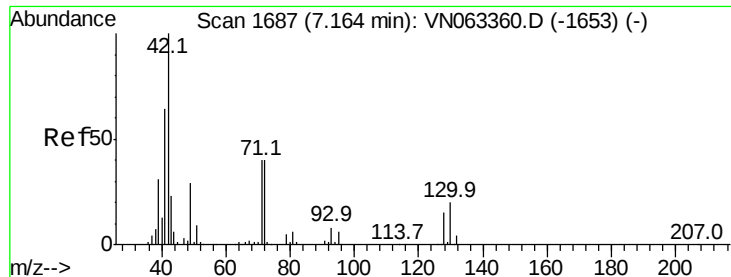
Tot Ion: 84 Resp: 13648
Ion Ratio Lower Upper
84 100
49 117.2 110.7 166.1
51 30.4 32.9 49.3#
86 54.9 51.1 76.7



#25
2-Butanone
Concen: 1.330 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN063400.D
Acq: 17 Sep 2020 6:15

Tgt Ion: 43 Resp: 2542
Ion Ratio Lower Upper
43 100
72 17.9 19.2 28.8#





#29

Tetrahydrofuran

Concen: 1.085 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063400.D

Acq: 17 Sep 2020 6:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(B-4)

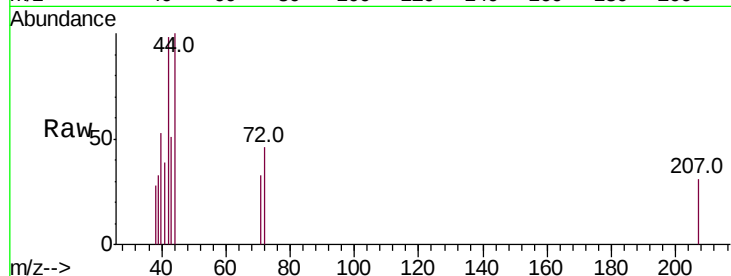
Tot Ion: 42 Resp: 1416

Ion Ratio Lower Upper

42 100

72 16.9 32.1 48.1#

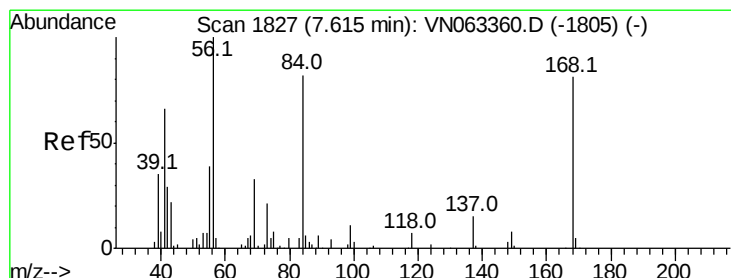
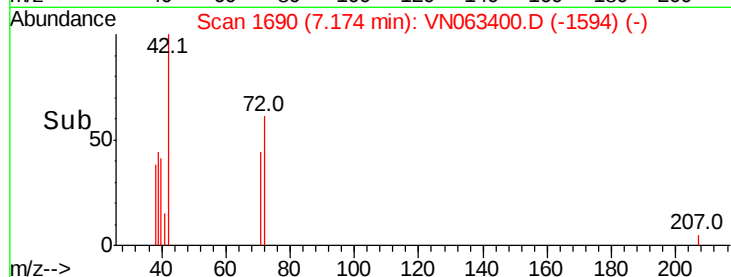
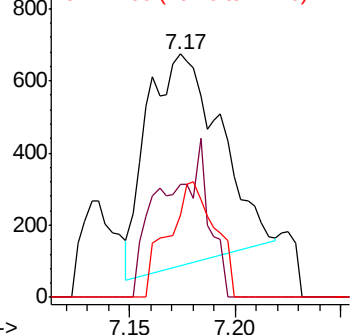
71 34.7 31.2 46.8



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.246 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN063400.D

Acq: 17 Sep 2020 6:15

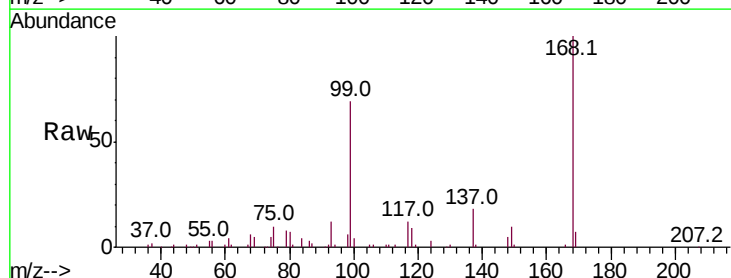
Tgt Ion: 56 Resp: 6650

Ion Ratio Lower Upper

56 100

69 139.6 26.1 39.1#

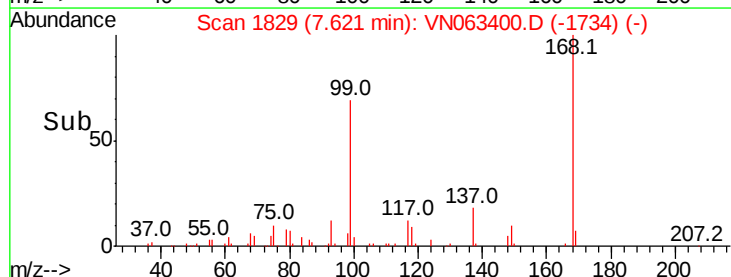
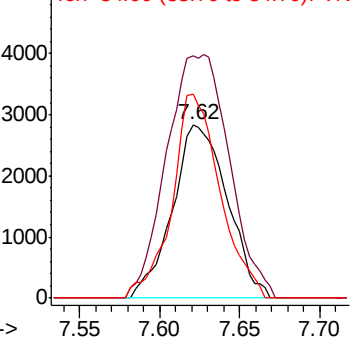
84 117.4 65.4 98.2#

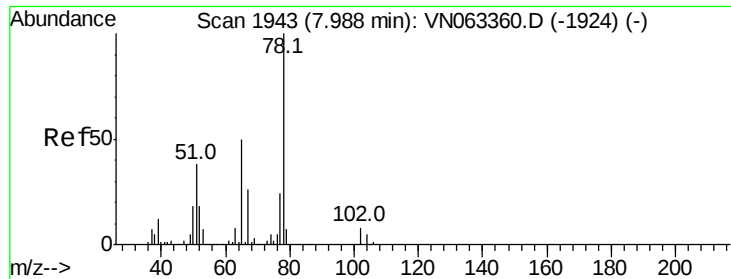


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

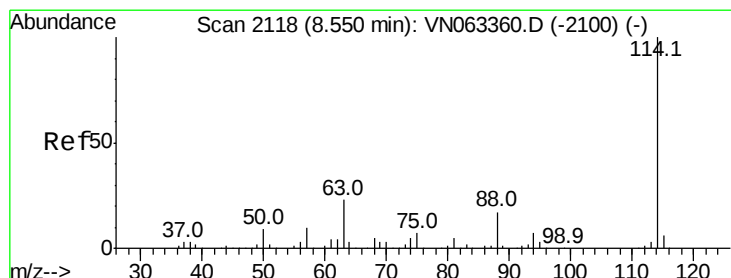
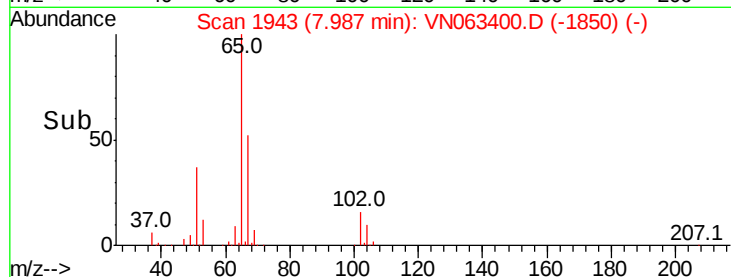
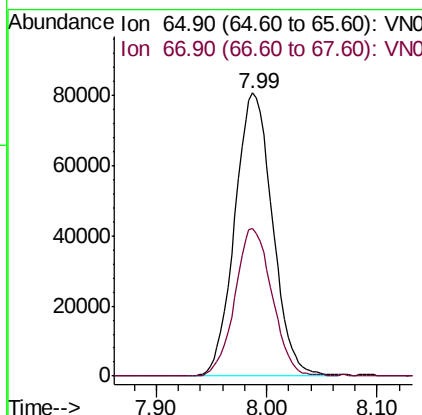
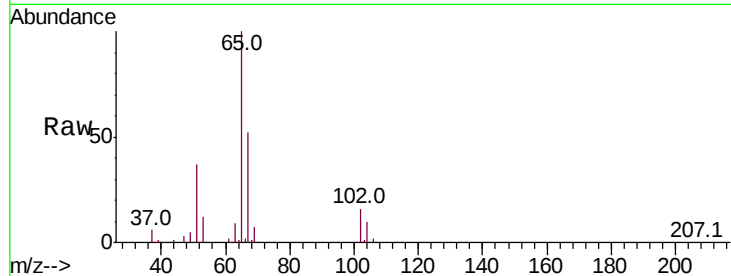




#33
 1,2-Dichloroethane-d4
 Concen: 49.609 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063400.D
 Acq: 17 Sep 2020 6:15

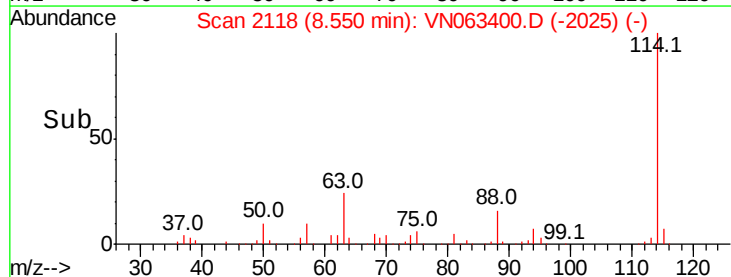
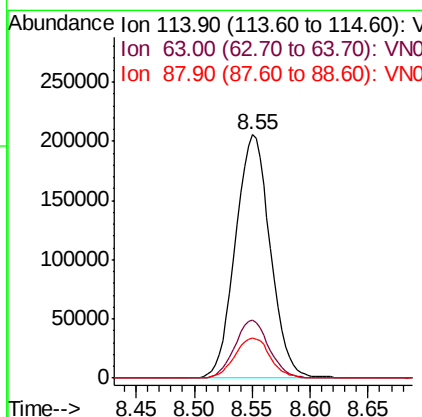
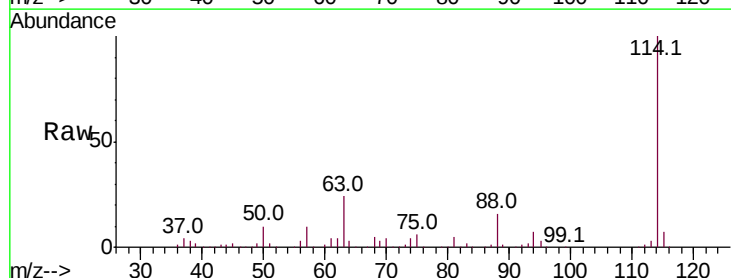
Instrument :
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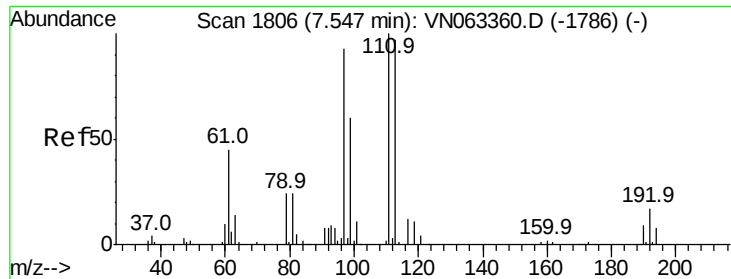
Tot Ion: 65 Resp: 191763
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063400.D
 Acq: 17 Sep 2020 6:15

Tgt Ion: 114 Resp: 428800
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 46.4
 88 16.3 0.0 33.2

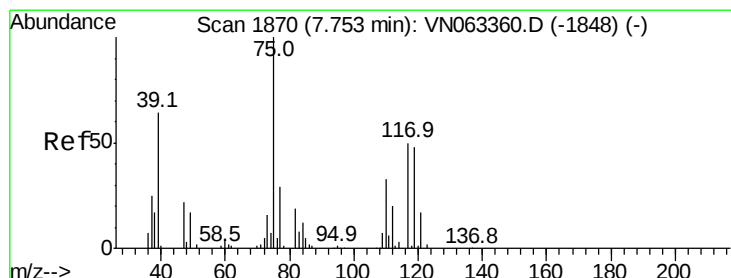
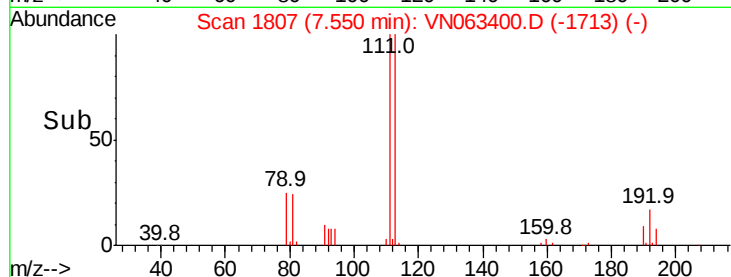
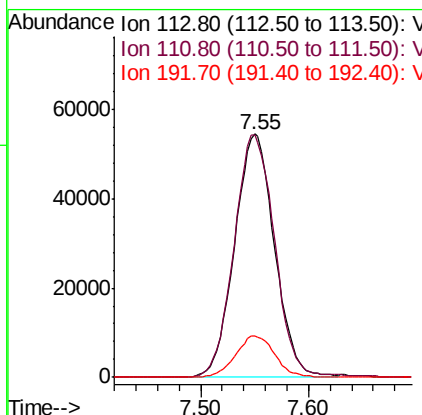
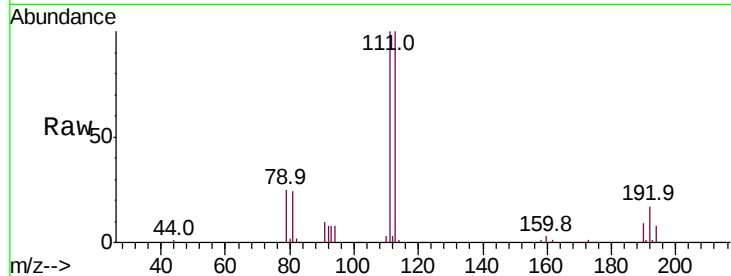




#35
 Dibromofluoromethane
 Concen: 47.250 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063400.D
 Acq: 17 Sep 2020 6:15

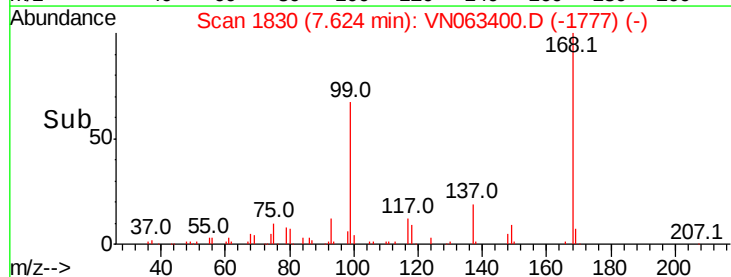
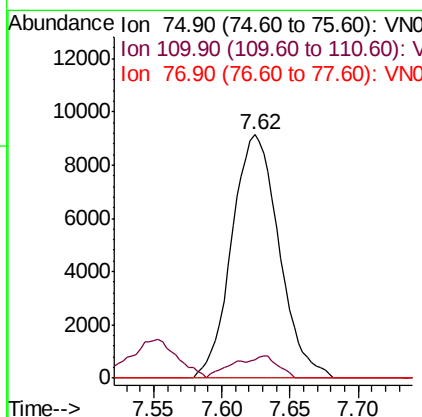
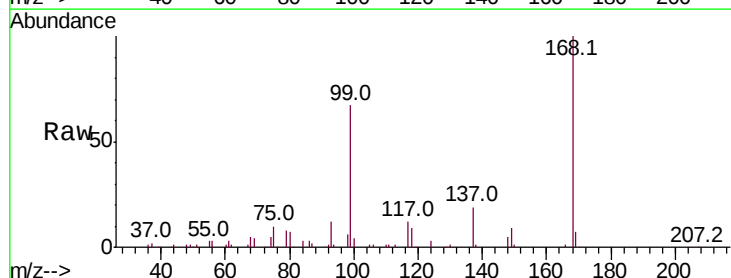
Instrument :
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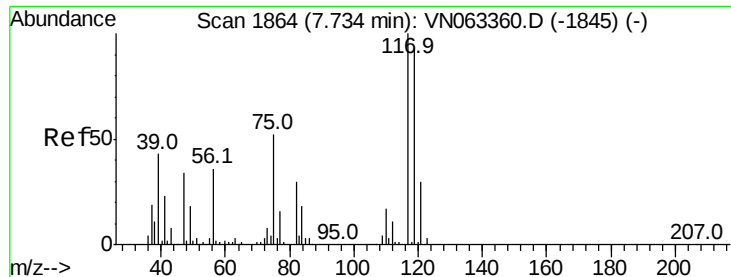
Tot Ion:113 Resp: 140261
 Ion Ratio Lower Upper
 113 100
 111 101.0 82.9 124.3
 192 16.8 13.9 20.9



#36
 1,1-Dichloropropene
 Concen: 4.818 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063400.D
 Acq: 17 Sep 2020 6:15

Tgt Ion: 75 Resp: 22011
 Ion Ratio Lower Upper
 75 100
 110 4.6 16.5 49.5#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.372 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063400.D

Acq: 17 Sep 2020 6:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(B-4)

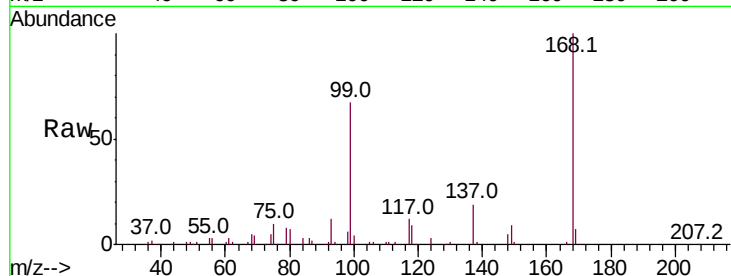
Tot Ion:117 Resp: 25050

Ion Ratio Lower Upper

117 100

119 4.2 74.5 111.7#

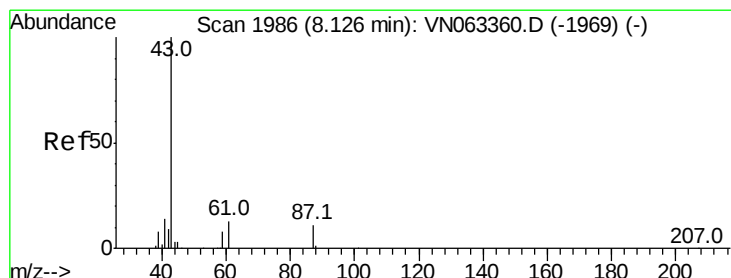
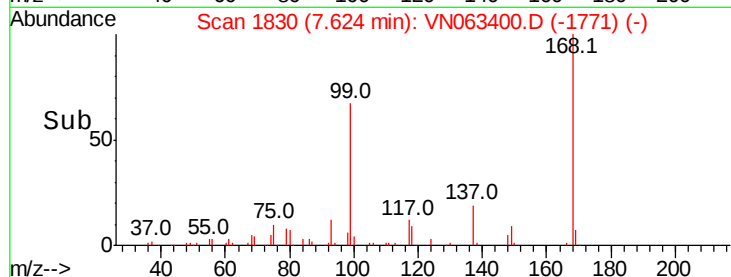
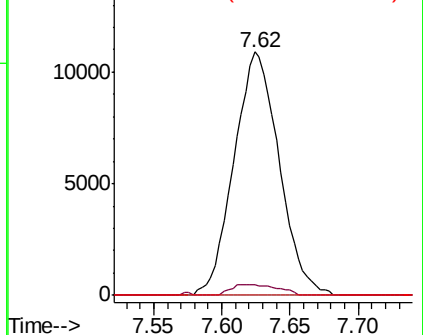
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 11.116 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063400.D

Acq: 17 Sep 2020 6:15

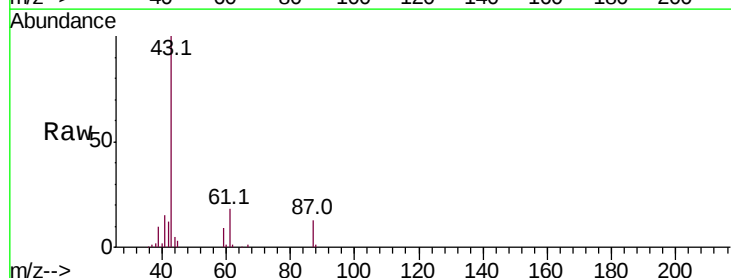
Tgt Ion: 43 Resp: 89120

Ion Ratio Lower Upper

43 100

61 18.0 14.2 21.2

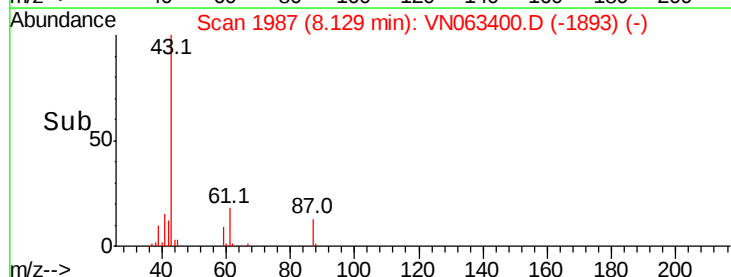
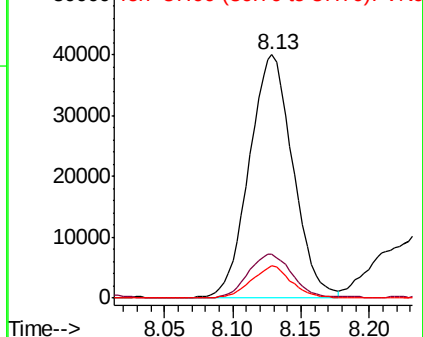
87 12.0 9.0 13.6

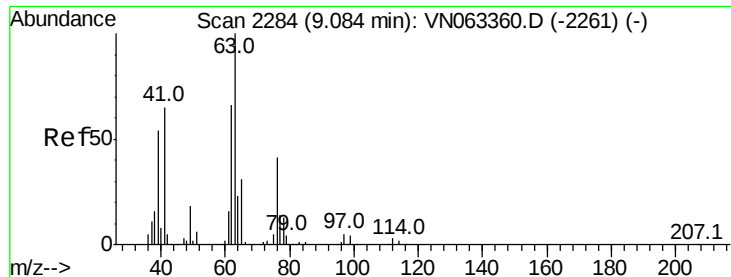


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.432 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063400.D

Acq: 17 Sep 2020 6:15

Instrument :

MSVOA_N

ClientSampleId :

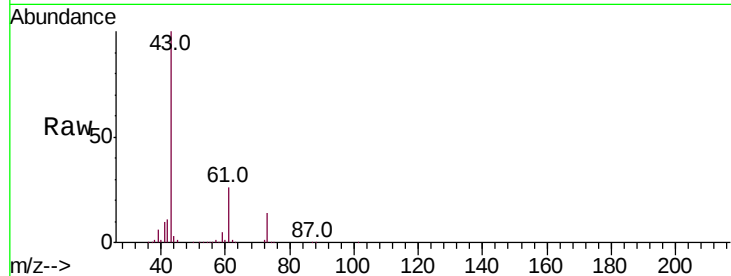
REACTOR-6E-(B-4)

Tot Ion: 63 Resp: 1535

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.24

1000

800

600

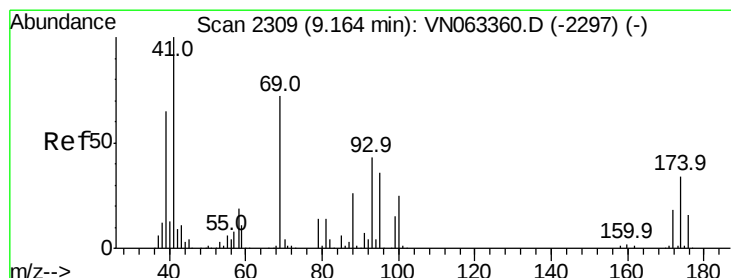
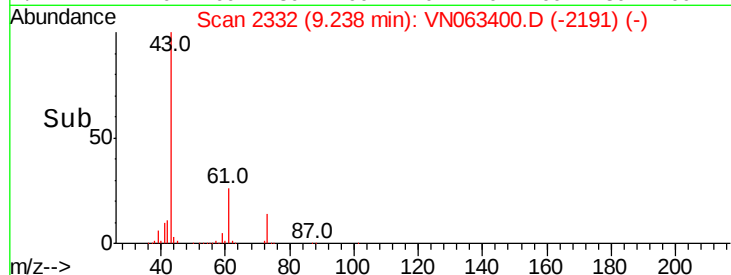
400

200

0

9.20 9.25

Time-->



#48

Methyl methacrylate

Concen: 1.532 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063400.D

Acq: 17 Sep 2020 6:15

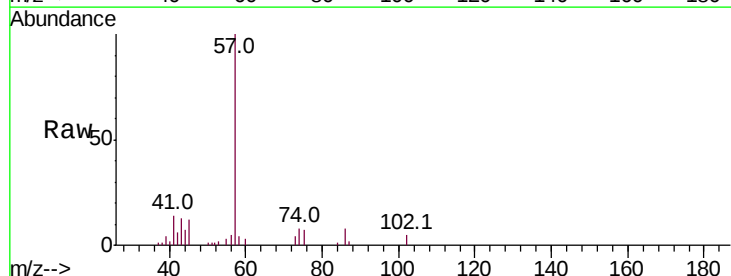
Tgt Ion: 41 Resp: 6034

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): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

100000

80000

60000

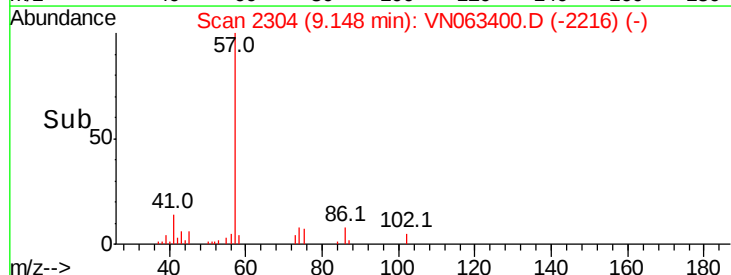
40000

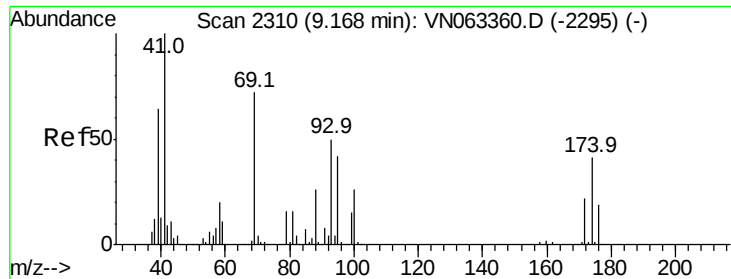
20000

0

9.05 9.10 9.15 9.20

Time-->





#49

1,4-Dioxane

Concen: 2.831 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063400.D

Acq: 17 Sep 2020 6:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(B-4)

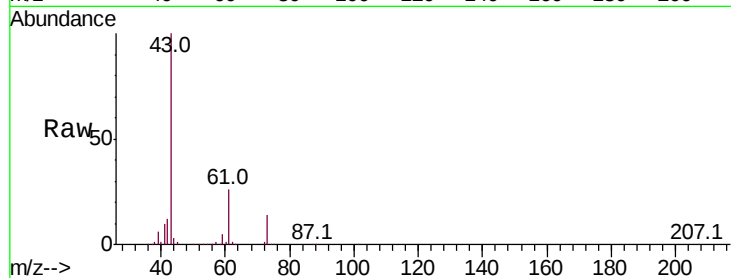
Tot Ion: 88 Resp: 160

Ion Ratio Lower Upper

88 100

43 942577.5 32.6 49.0#

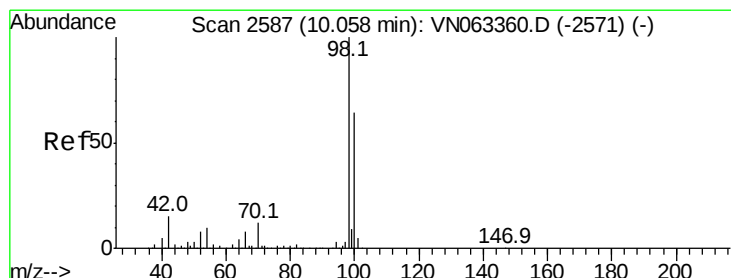
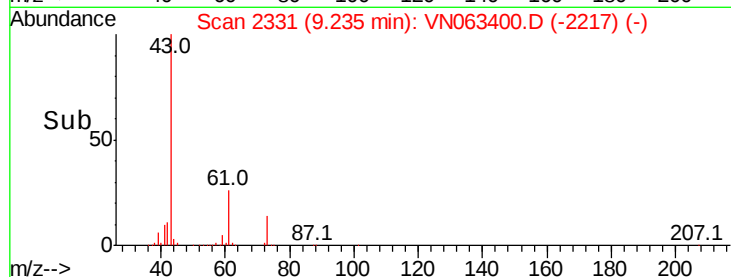
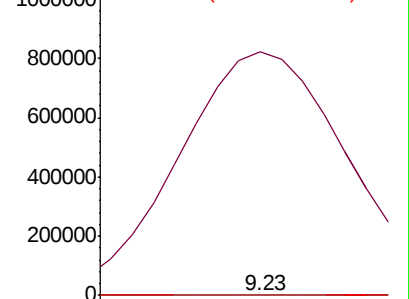
58 3602.5 60.0 90.0#



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: 49.973 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063400.D

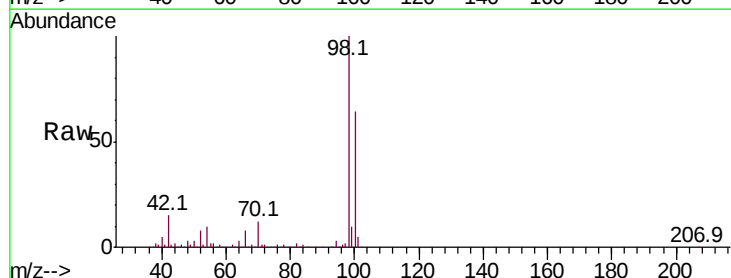
Acq: 17 Sep 2020 6:15

Tgt Ion: 98 Resp: 557803

Ion Ratio Lower Upper

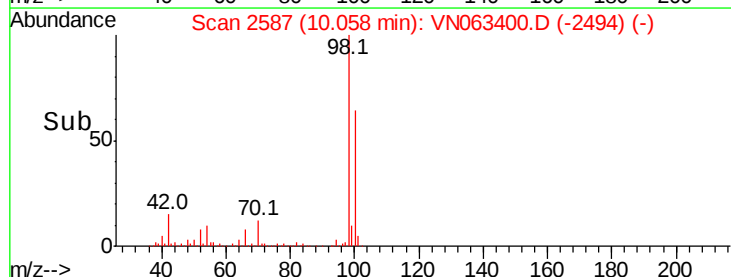
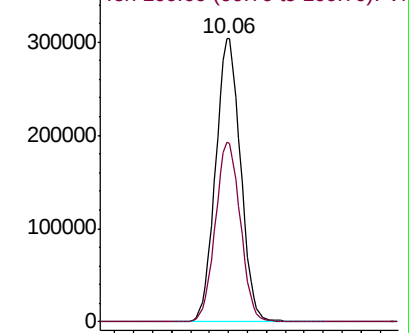
98 100

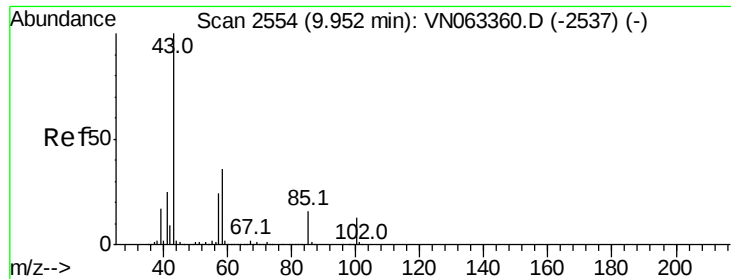
100 63.5 50.7 76.1



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: 2.011 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063400.D

Acq: 17 Sep 2020 6:15

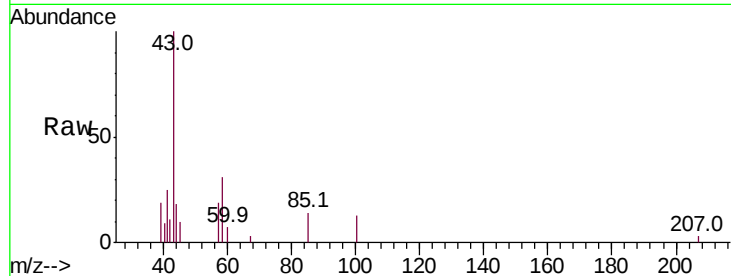
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(B-4)

Tot Ion: 43 Resp: 9027

Ion Ratio Lower Upper

43 100

58 40.0 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) (-)

20000

15000

10000

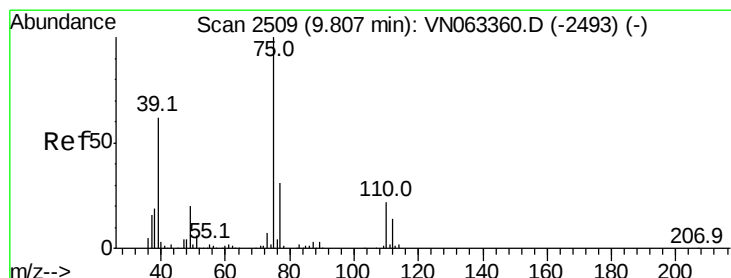
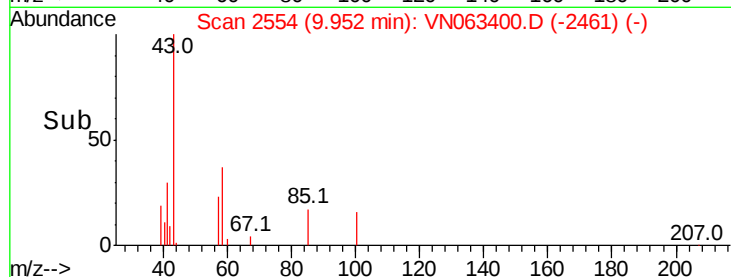
5000

0

9.90

9.95

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.983 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN063400.D

Acq: 17 Sep 2020 6:15

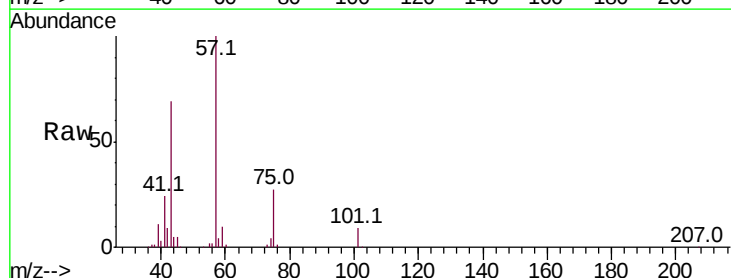
Tgt Ion: 75 Resp: 34170

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 42.5 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) (-)

25000

20000

15000

10000

5000

0

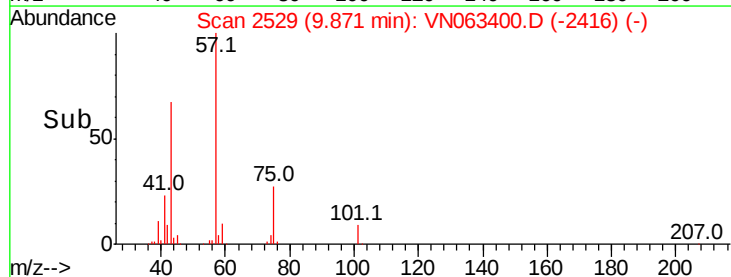
9.80

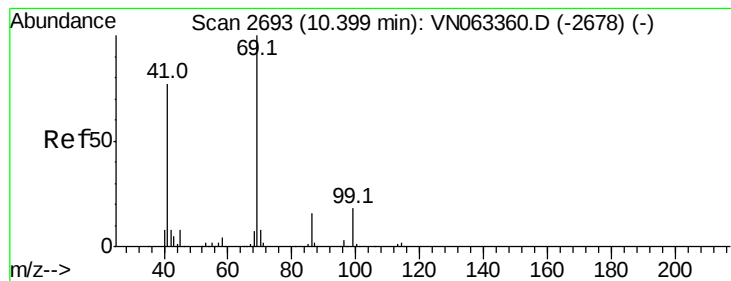
9.85

9.90

9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.296 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063400.D

Acq: 17 Sep 2020 6:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(B-4)

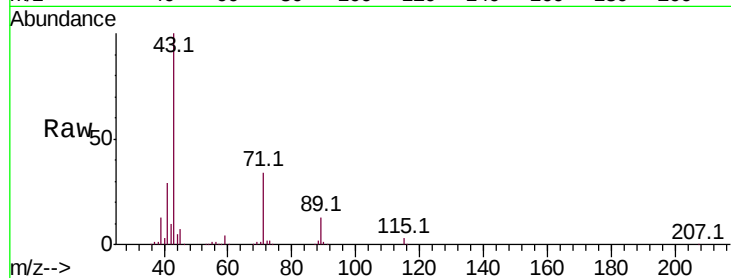
Tot Ion: 69 Resp: 1437

Ion Ratio Lower Upper

69 100

41 6244.3 61.0 91.6#

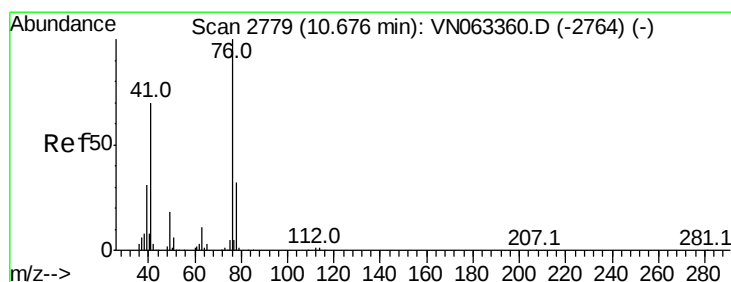
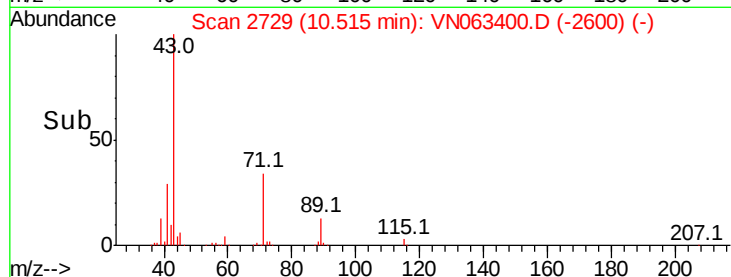
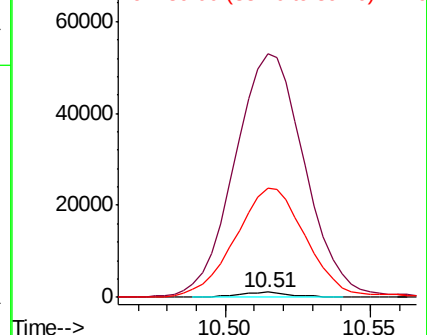
39 2852.2 39.2 58.8#



Abundance Ion 69.00 (68.70 to 69.70): VNO

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 1.124 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063400.D

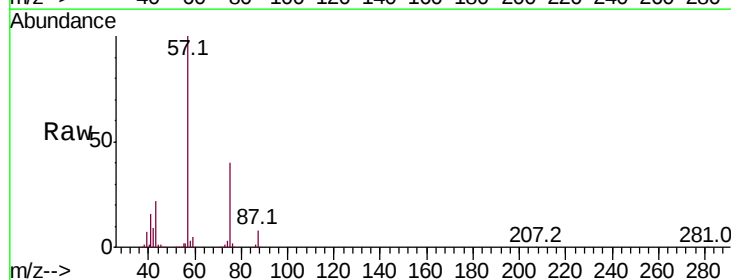
Acq: 17 Sep 2020 6:15

Tgt Ion: 76 Resp: 6312

Ion Ratio Lower Upper

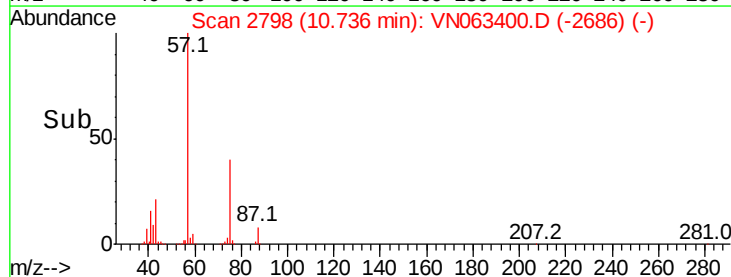
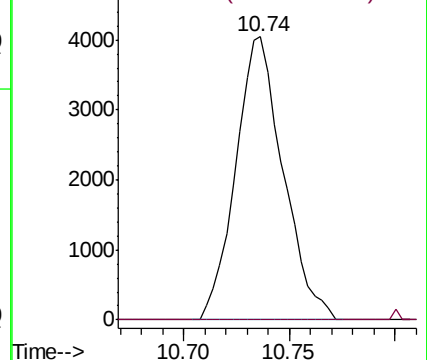
76 100

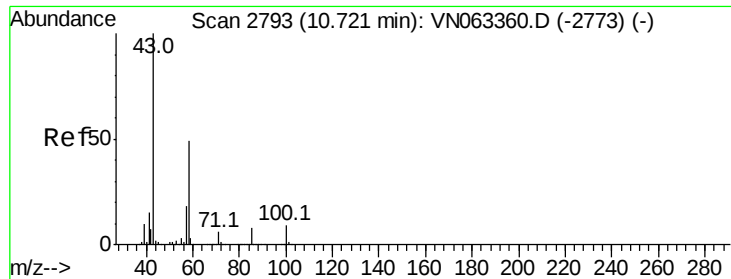
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

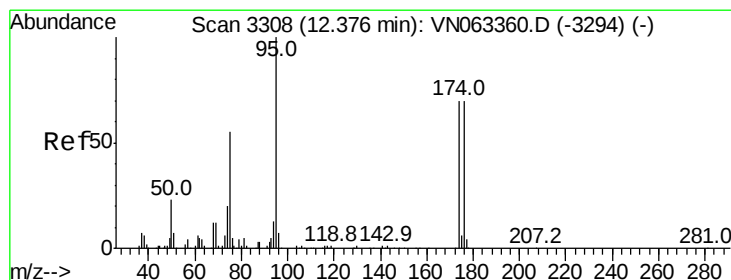
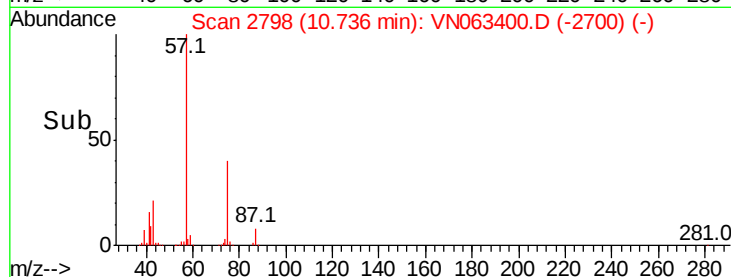
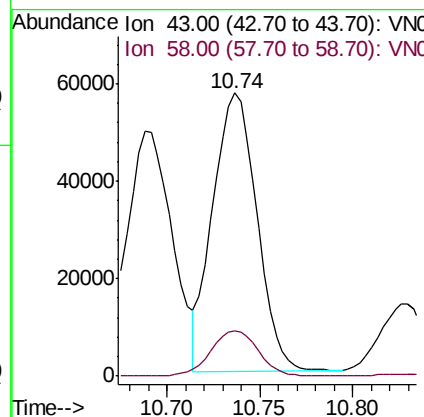
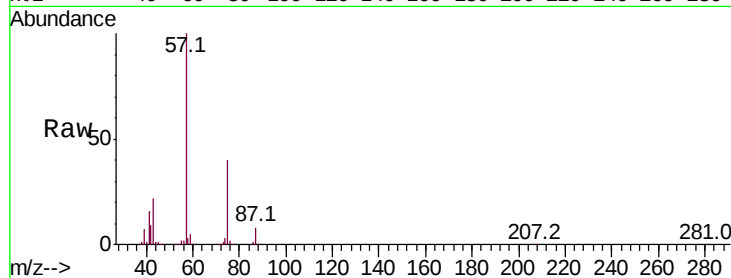




#59
2-Hexanone
Concen: 29.033 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063400.D
Acq: 17 Sep 2020 6:15

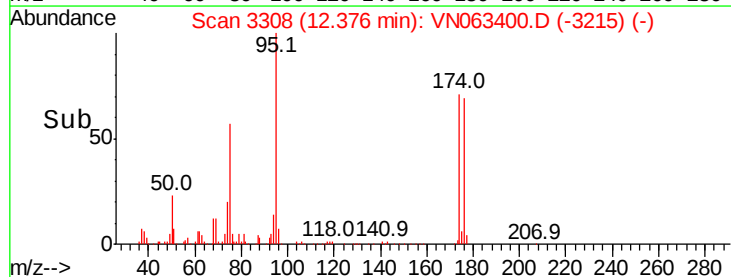
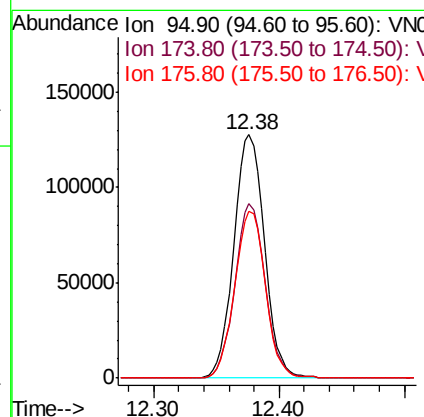
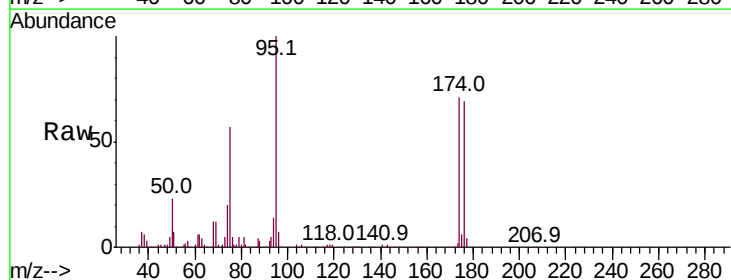
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(B-4)

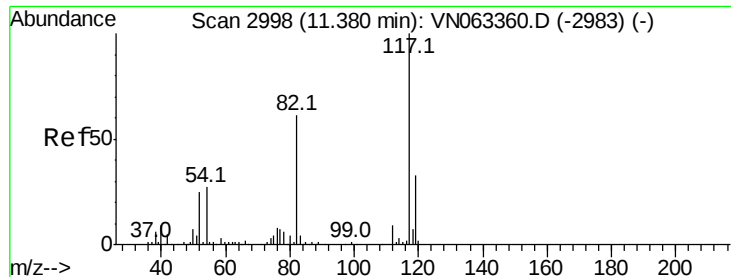
Tot Ion: 43 Resp: 94403
Ion Ratio Lower Upper
43 100
58 17.6 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 53.052 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063400.D
Acq: 17 Sep 2020 6:15

Tgt Ion: 95 Resp: 217079
Ion Ratio Lower Upper
95 100
174 70.6 0.0 140.8
176 68.8 0.0 137.6

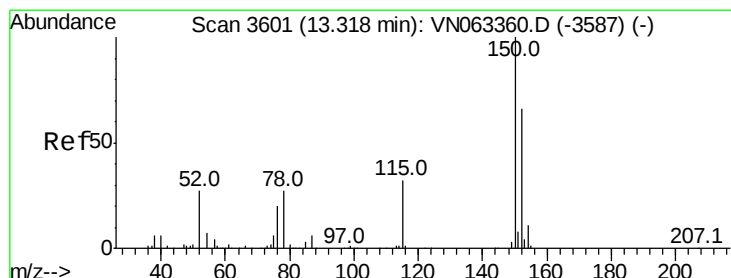
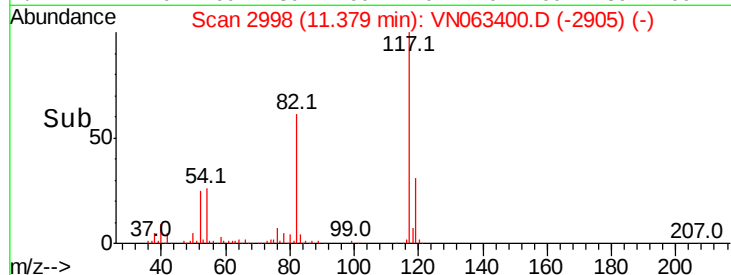
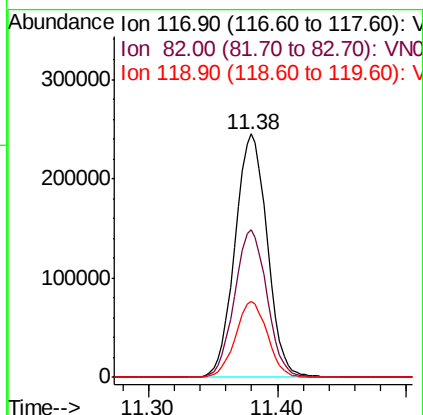
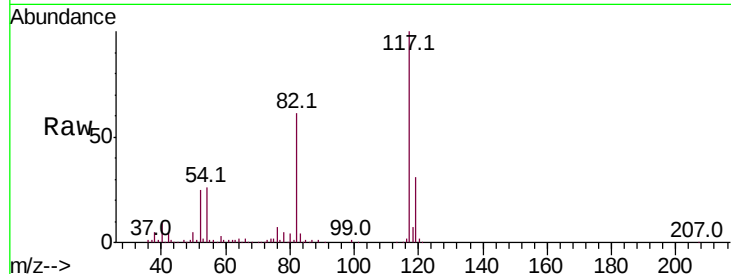




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063400.D
Acq: 17 Sep 2020 6:15

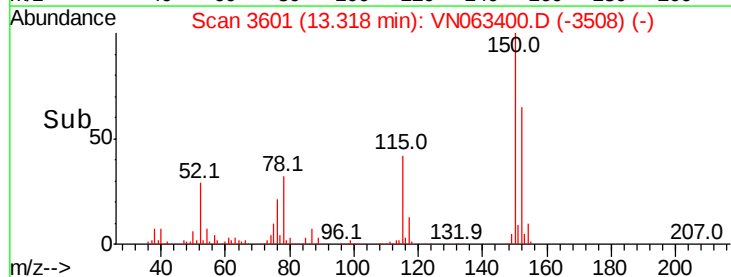
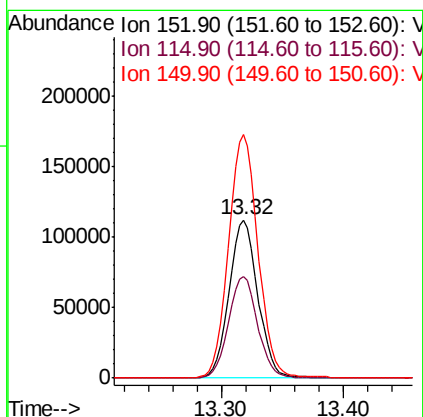
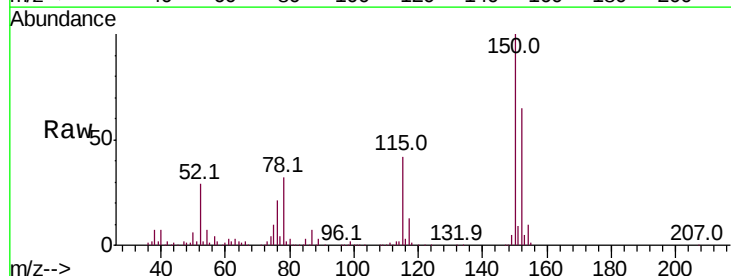
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(B-4)

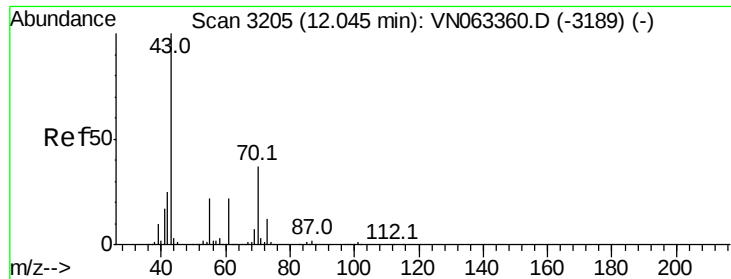
Tot Ion	Ratio	Lower	Upper
117	100		
82	60.6	49.2	73.8
119	31.4	26.2	39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063400.D
Acq: 17 Sep 2020 6:15

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.2	32.2	96.6
150	157.7	0.0	343.4





#74

N-amvl acetate

Concen: 0.369 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063400.D

Acq: 17 Sep 2020 6:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(B-4)

Tot Ion: 43 Resp: 2579

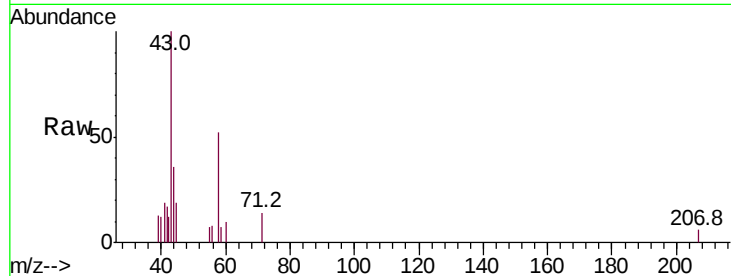
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 7.8 17.7 26.5#

61 0.0 17.4 26.2#

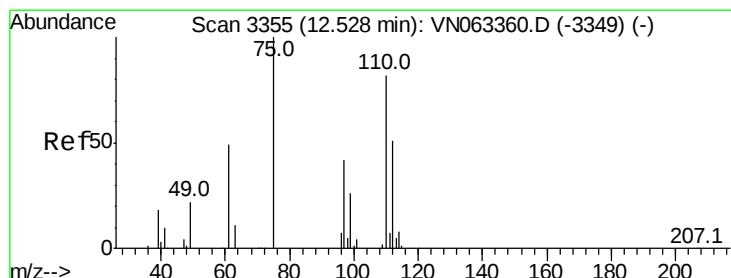
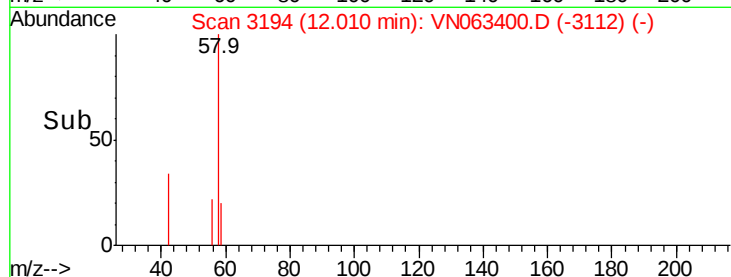
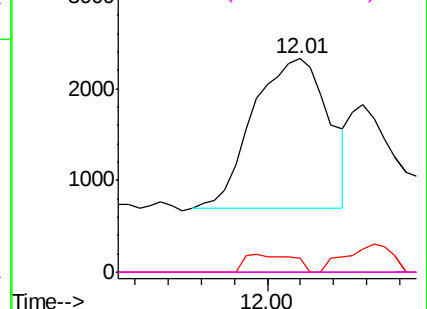


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.717 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063400.D

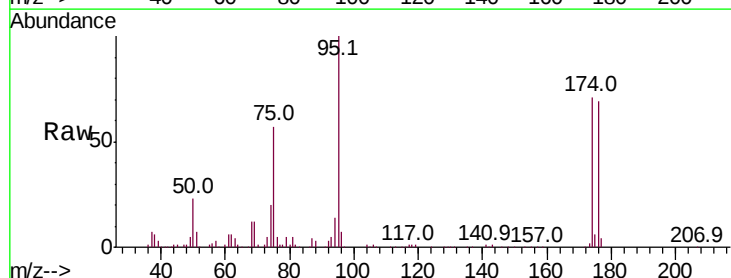
Acq: 17 Sep 2020 6:15

Tgt Ion: 75 Resp: 121799

Ion Ratio Lower Upper

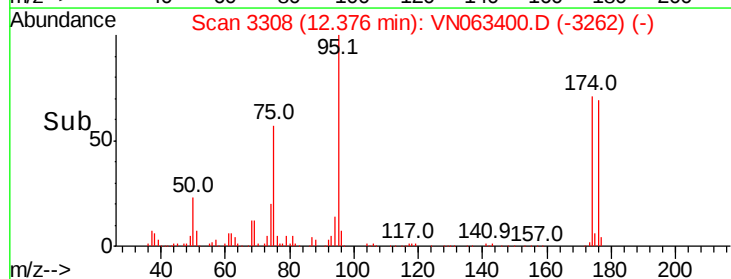
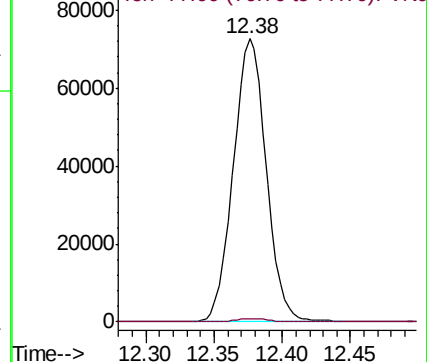
75 100

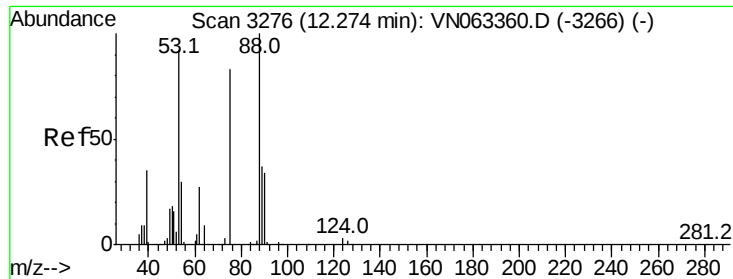
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 73.247 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063400.D

Acq: 17 Sep 2020 6:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(B-4)

Tot Ion: 75 Resp: 121799

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

