

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063395.D
 Acq On : 17 Sep 2020 4:15
 Operator : JC/MD
 Sample : L4015-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-6E-(A-0)

Quant Time: Sep 17 05:13:34 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	241151	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	450376	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	447991	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	196633	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	200267	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
35) Dibromofluoromethane	7.55	113	145735	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
50) Toluene-d8	10.06	98	586722	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
62) 4-Bromofluorobenzene	12.38	95	230331	53.59	ug/l	0.00
Spiked Amount			Recovery	=	107.18%	

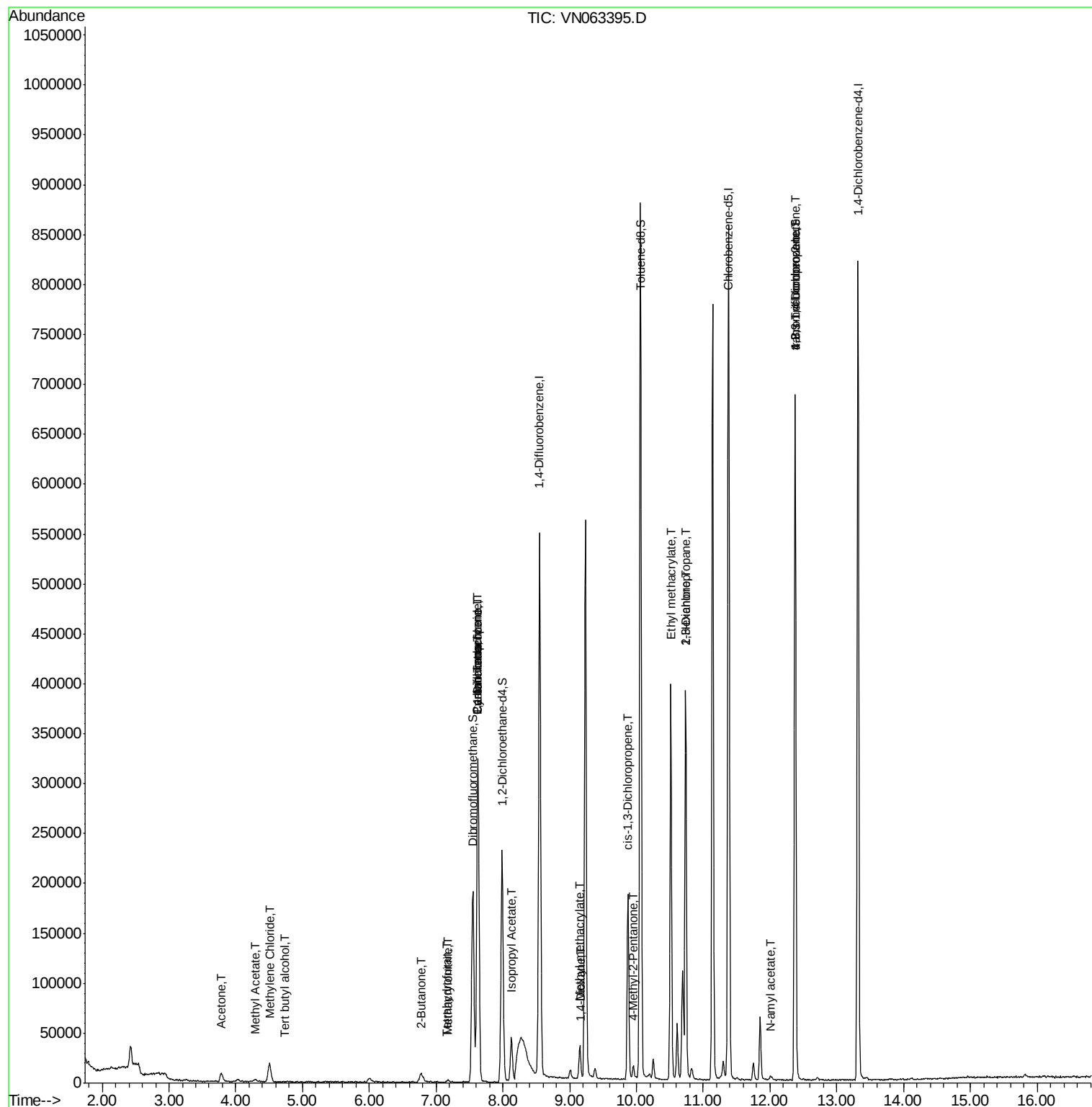
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	125	0.220	ug/l #	72
16) Acetone	3.78	43	14810	11.226	ug/l	98
18) Methyl Acetate	4.28	43	5487	1.638	ug/l #	81
20) Methylene Chloride	4.50	84	12571	3.761	ug/l	90
25) 2-Butanone	6.79	43	4576	2.255	ug/l #	83
29) Tetrahydrofuran	7.16	42	480	0.346	ug/l #	41
31) Cyclohexane	7.62	56	6963	1.228	ug/l #	26
36) 1,1-Dichloropropene	7.62	75	23362	4.869	ug/l #	52
38) Carbon Tetrachloride	7.63	117	27294	5.573	ug/l #	16
41) Methacrylonitrile	7.16	41	703	0.332	ug/l #	100
43) Isopropyl Acetate	8.13	43	53808	6.390	ug/l	99
48) Methyl methacrylate	9.14	41	4975	1.203	ug/l #	32
49) 1,4-Dioxane	9.18	88	31	0.522	ug/l #	20
51) 4-Methyl-2-Pentanone	9.96	43	8586	1.821	ug/l	91
54) cis-1,3-Dichloropropene	9.87	75	31083	5.182	ug/l #	66
56) Ethyl methacrylate	10.51	69	1312	0.257	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3722	0.631	ug/l #	42
59) 2-Hexanone	10.74	43	60685	17.769	ug/l #	55
74) N-amyl acetate	12.01	43	3873	0.519	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	129521	26.612	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	129521	72.961	ug/l #	7

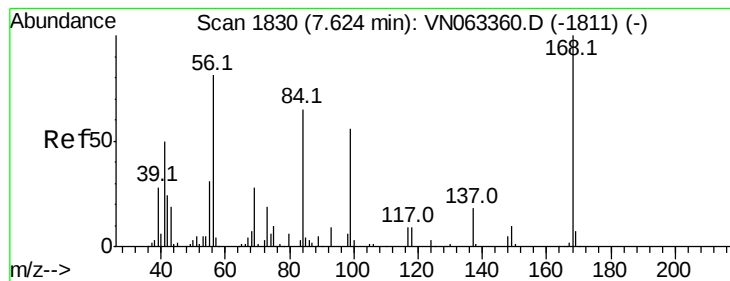
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 16 13:05:20 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

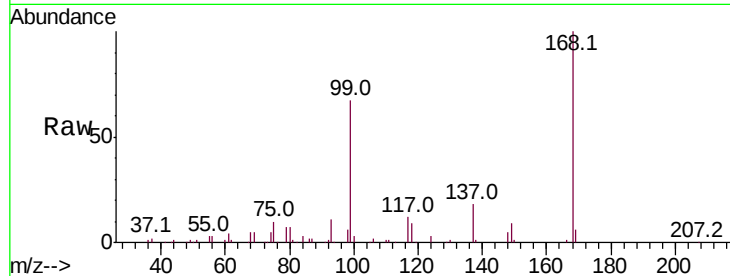
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(A-0)

Tot Ion:168 Resp: 241151

Ion Ratio Lower Upper

168 100

99 67.5 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

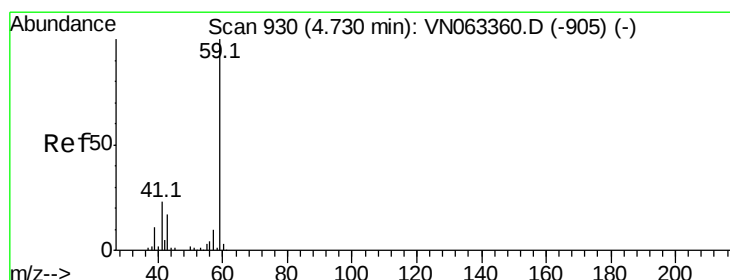
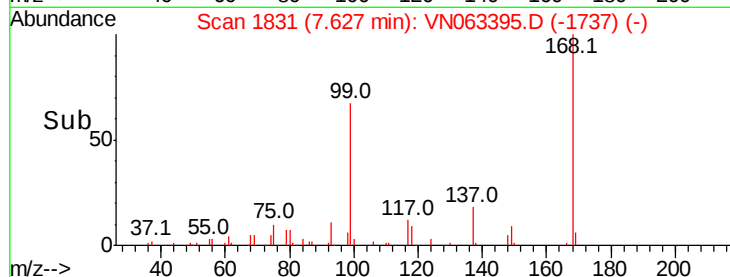
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.220 ug/l

RT: 4.74 min Scan# 932

Delta R.T. 0.01 min

Lab File: VN063395.D

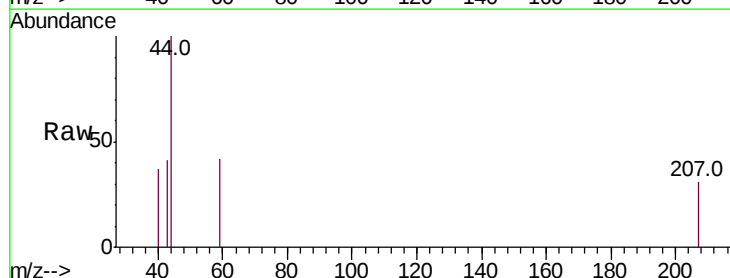
Acq: 17 Sep 2020 4:15

Tgt Ion: 59 Resp: 125

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.74

250

200

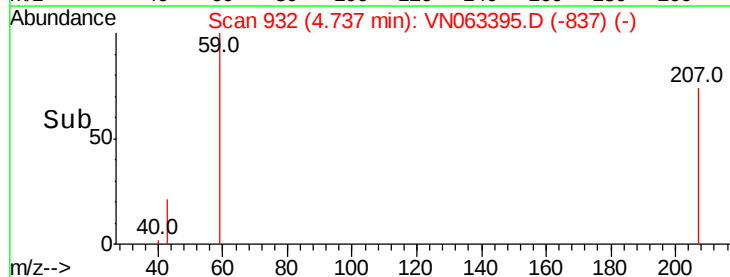
150

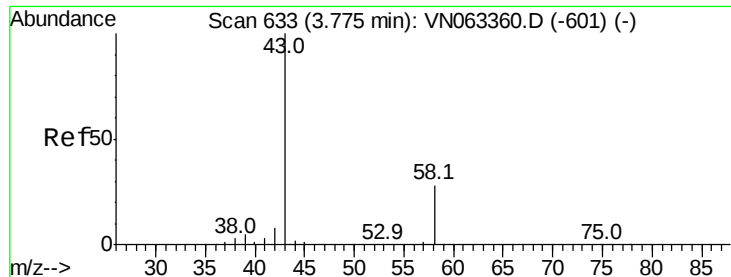
100

50

0

Time--> 4.72 4.73 4.74 4.75





#16

Acetone

Concen: 11.226 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

Instrument :

MSVOA_N

ClientSampleId :

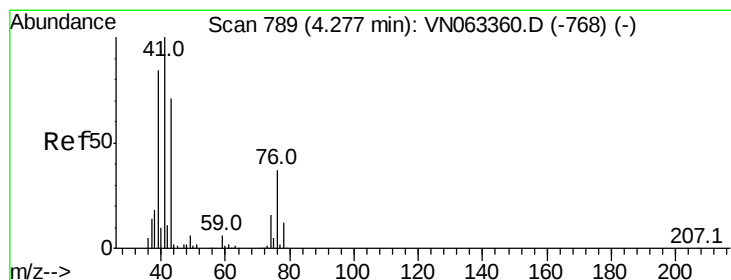
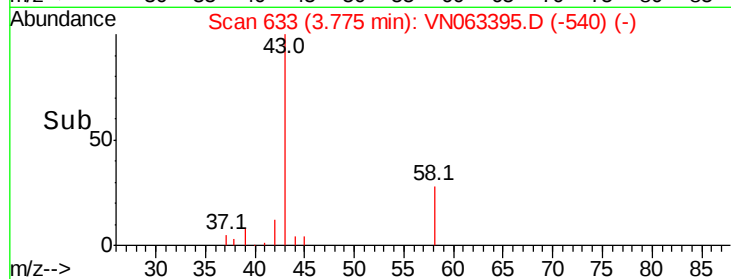
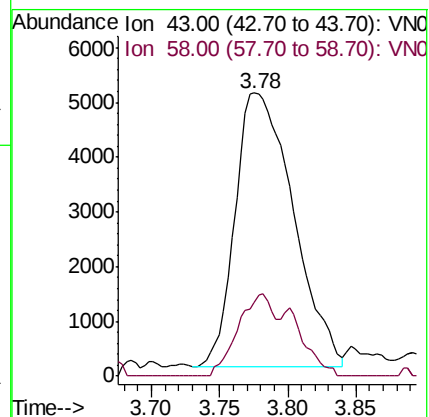
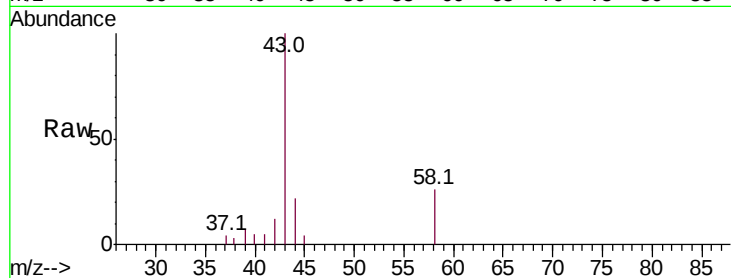
REACTOR-6E-(A-0)

Tot Ion: 43 Resp: 14810

Ion Ratio Lower Upper

43 100

58 26.7 22.3 33.5



#18

Methyl Acetate

Concen: 1.638 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN063395.D

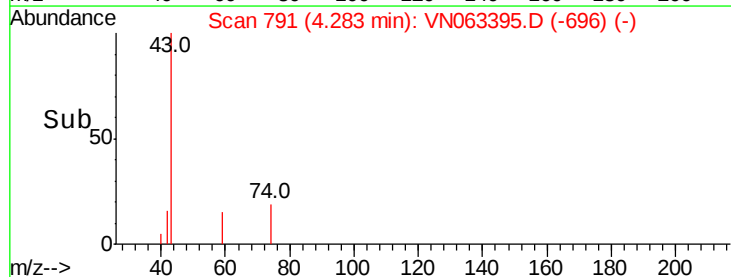
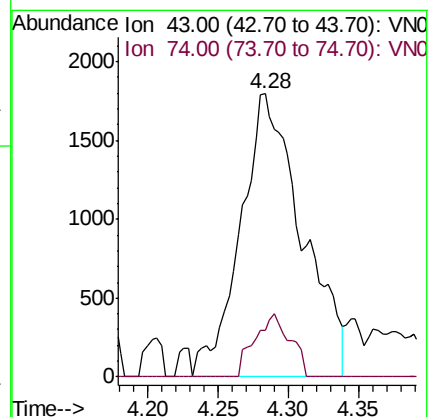
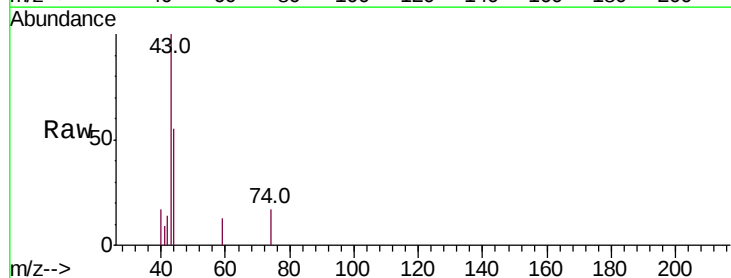
Acq: 17 Sep 2020 4:15

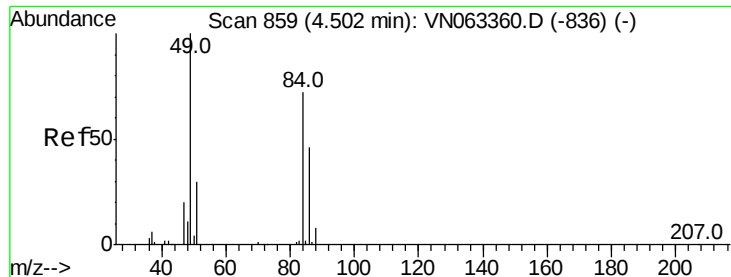
Tgt Ion: 43 Resp: 5487

Ion Ratio Lower Upper

43 100

74 12.8 17.4 26.2#

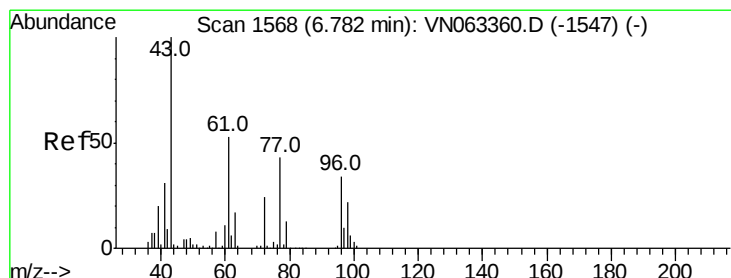
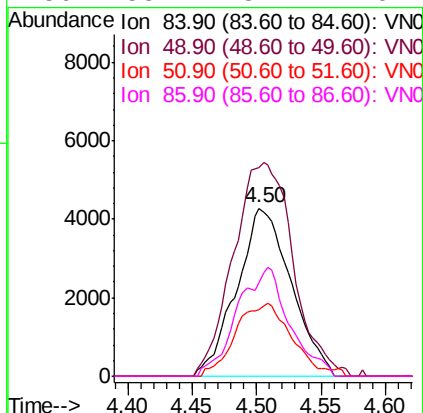
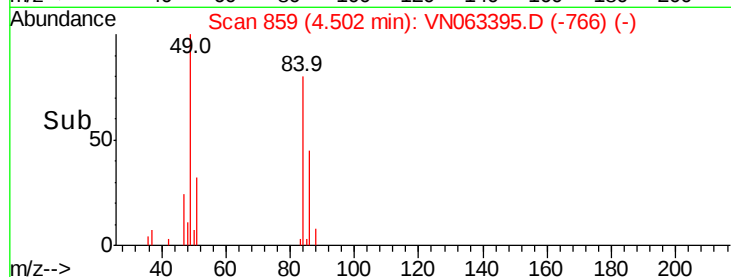
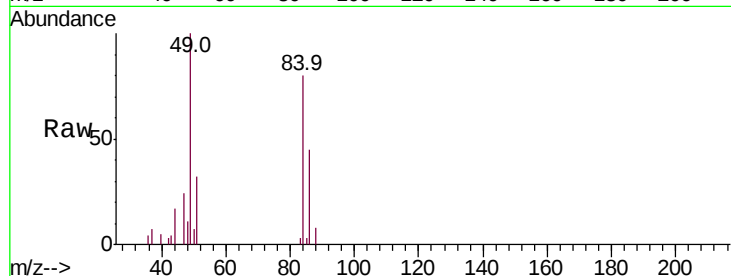




#20
Methvlene Chloride
Concen: 3.761 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063395.D
Acq: 17 Sep 2020 4:15

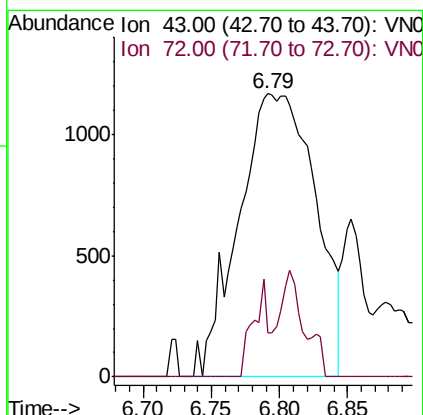
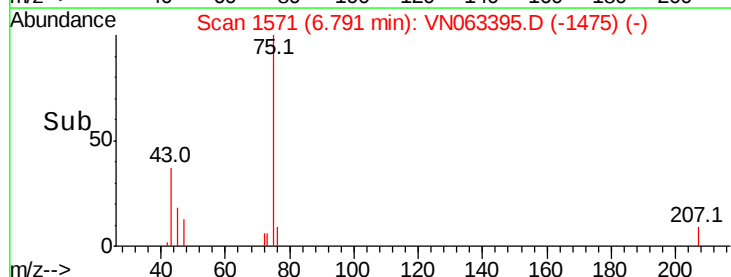
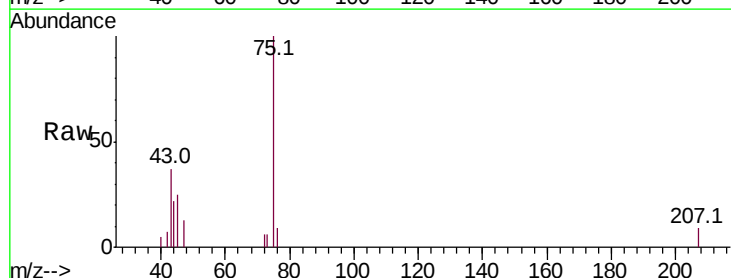
Instrument :
MSVOA_N
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REACTOR-6E-(A-0)

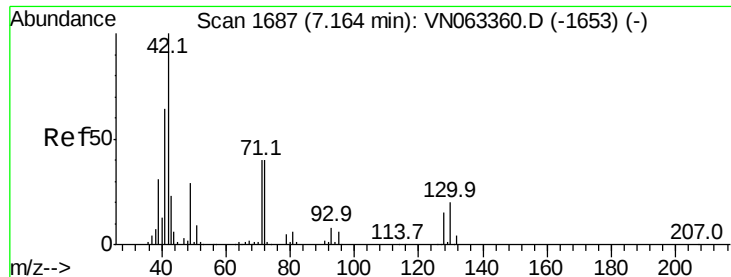
Tot Ion:	84	Resp:	12571
Ion	Ratio	Lower	Upper
84	100		
49	124.3	110.7	166.1
51	39.9	32.9	49.3
86	55.7	51.1	76.7



#25
2-Butanone
Concen: 2.255 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN063395.D
Acq: 17 Sep 2020 4:15

Tgt Ion:	43	Resp:	4576
Ion	Ratio	Lower	Upper
43	100		
72	15.8	19.2	28.8#





#29

Tetrahydrofuran

Concen: 0.346 ug/l

RT: 7.16 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(A-0)

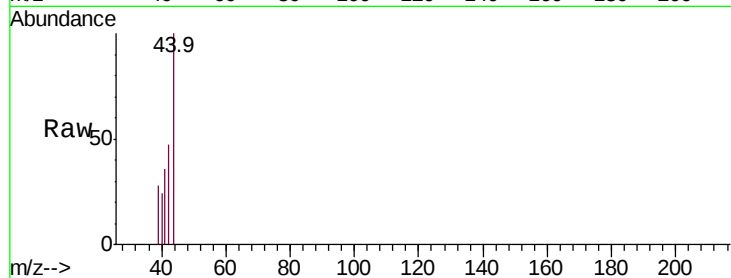
Tot Ion: 42 Resp: 480

Ion Ratio Lower Upper

42 100

72 6.7 32.1 48.1#

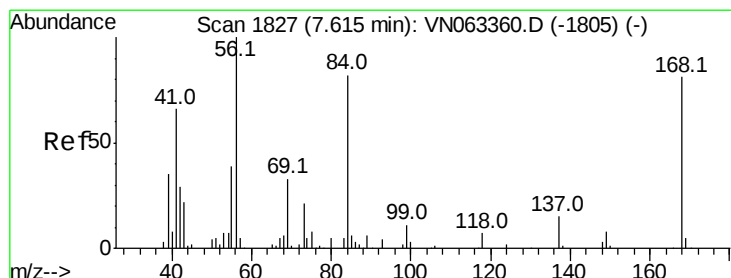
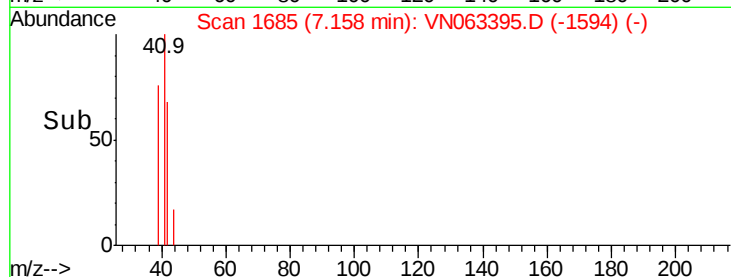
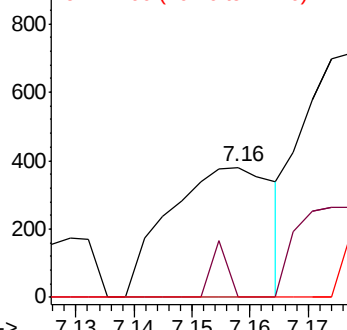
71 0.0 31.2 46.8#



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: 1.228 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

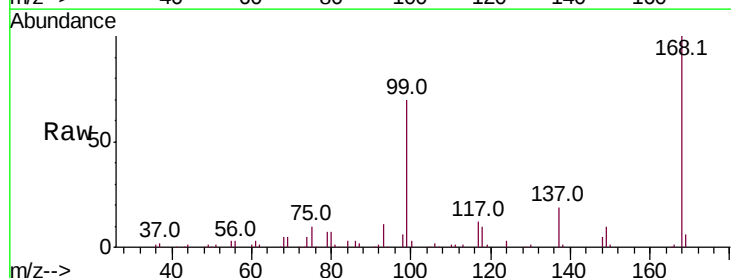
Tgt Ion: 56 Resp: 6963

Ion Ratio Lower Upper

56 100

69 161.9 26.1 39.1#

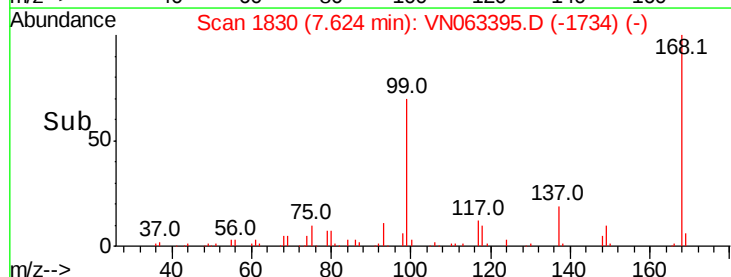
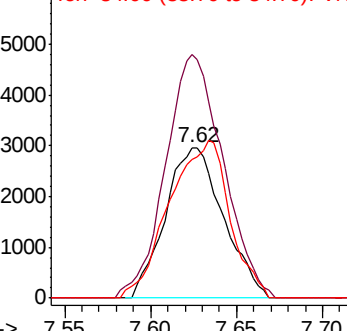
84 92.3 65.4 98.2

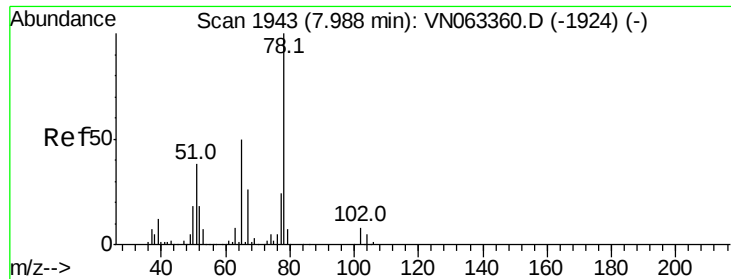


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 48.786 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

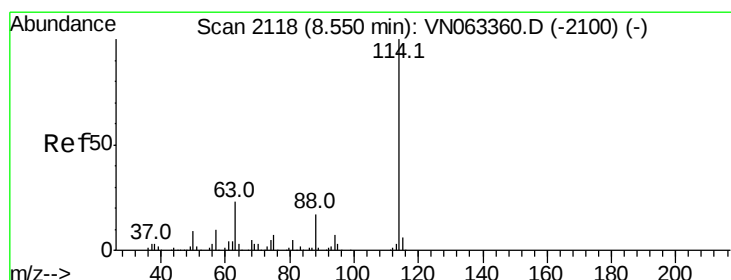
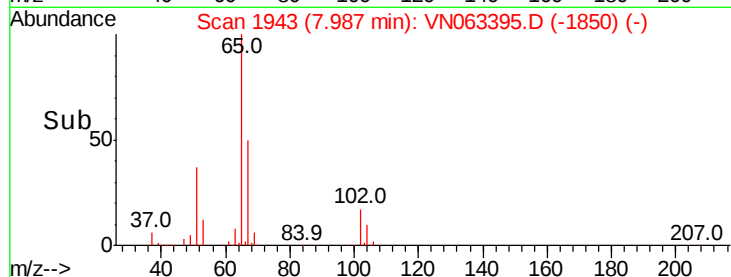
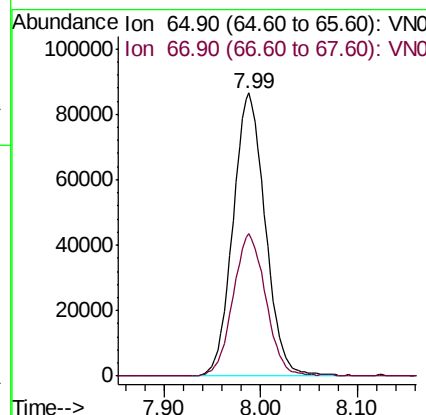
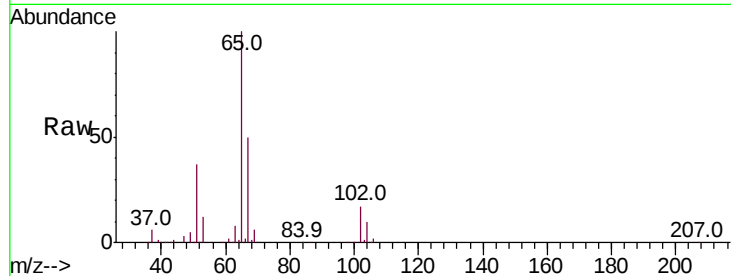
Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

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Tot Ion: 65 Resp: 200267

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

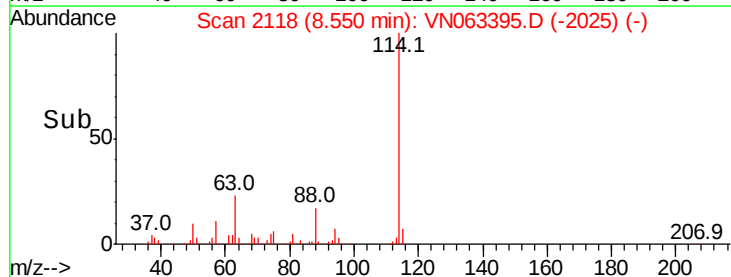
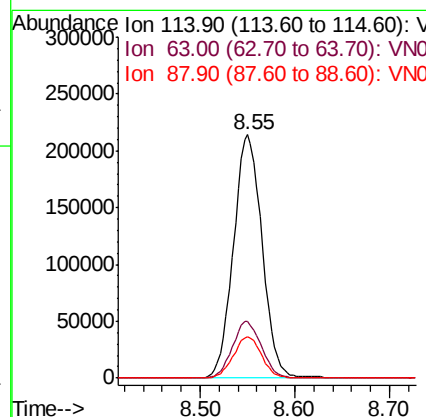
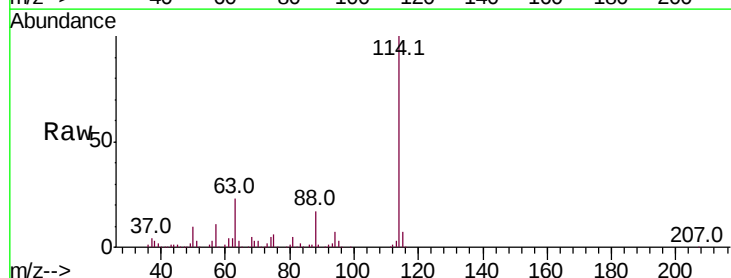
Delta R.T. -0.00 min

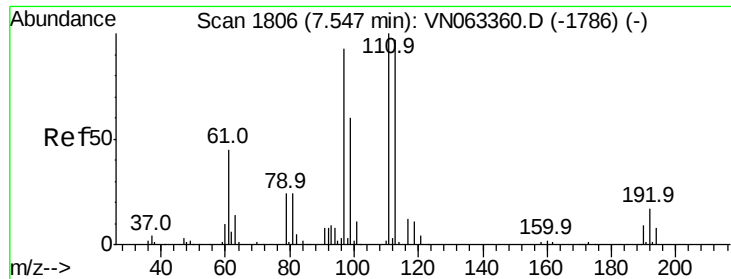
Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

Tgt Ion: 114 Resp: 450376

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	46.4
88	17.1	0.0	33.2

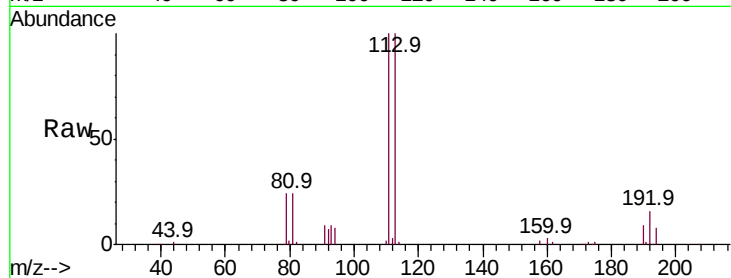




#35
 Dibromofluoromethane
 Concen: 46.742 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN063395.D
 Acq: 17 Sep 2020 4:15

Instrument :
 MSVOA_N
 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.9	124.3
192	16.6	13.9	20.9

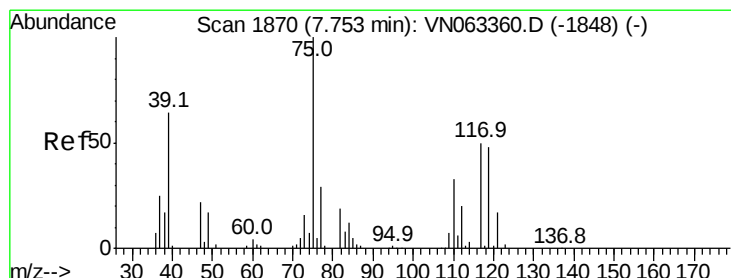
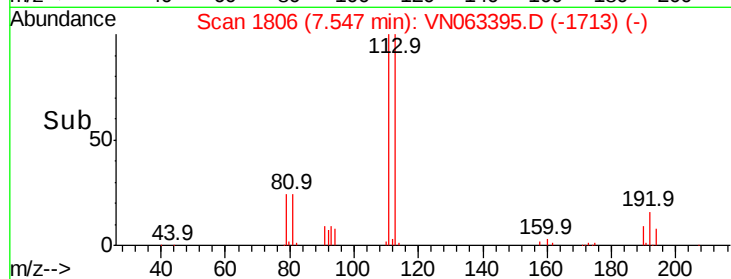
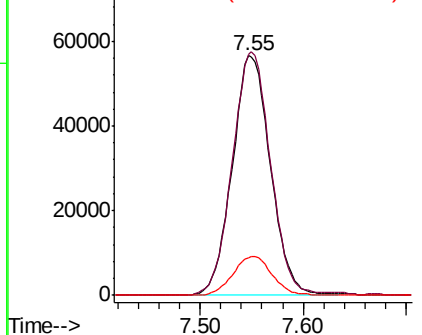


Abundance

Ion 112.80 (112.50 to 113.50): V

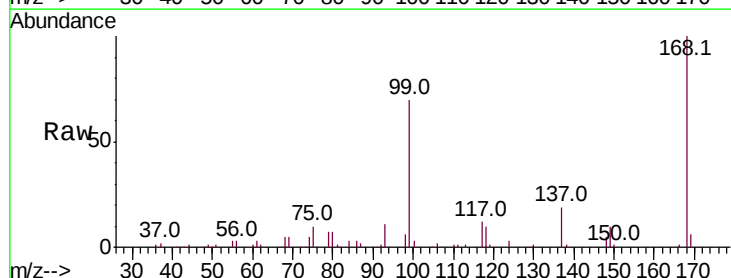
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.869 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063395.D
 Acq: 17 Sep 2020 4:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	16.5	49.5#
77	0.0	24.6	36.8#

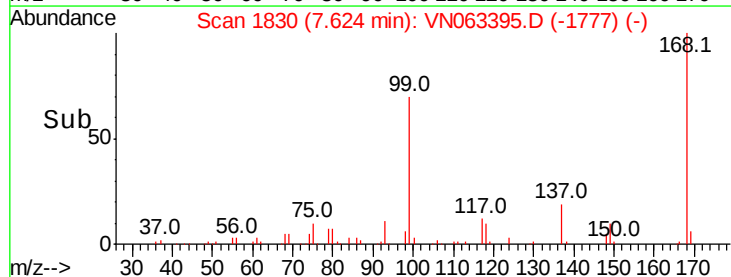
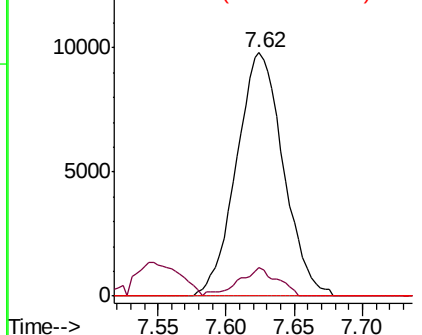


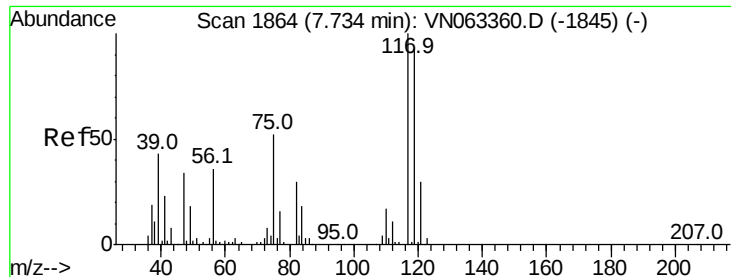
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

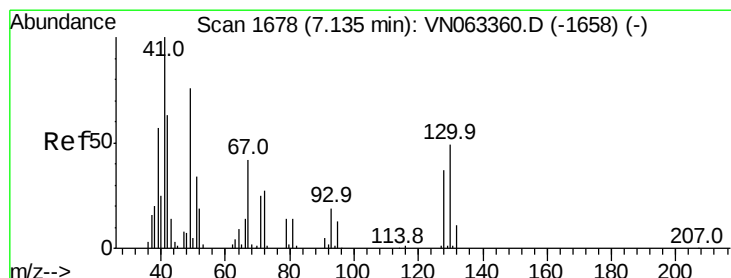
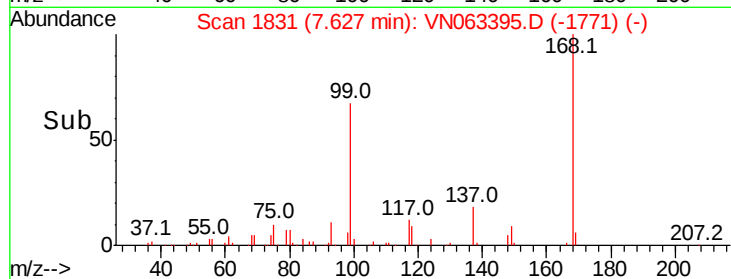
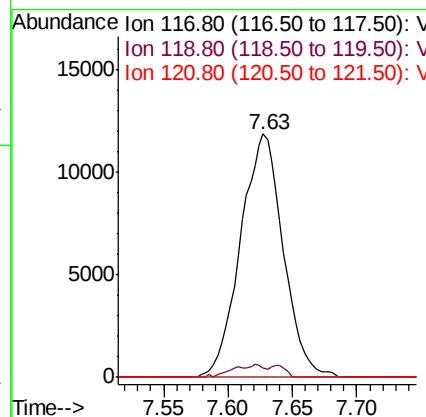
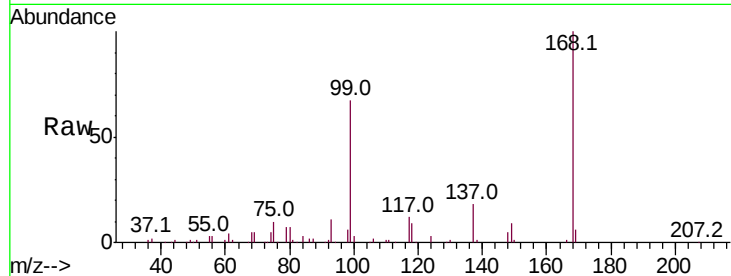




#38
Carbon Tetrachloride
Concen: 5.573 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063395.D
Acq: 17 Sep 2020 4:15

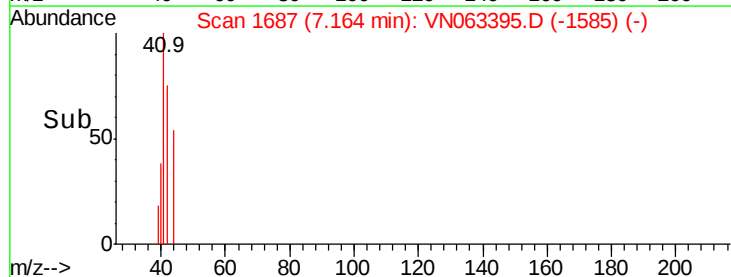
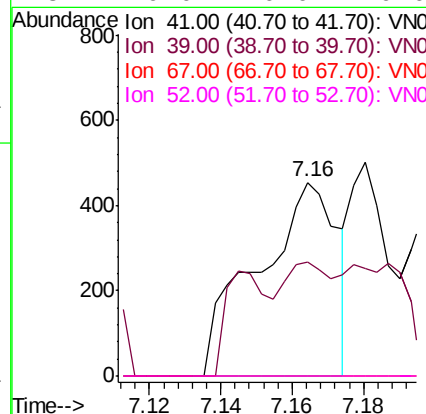
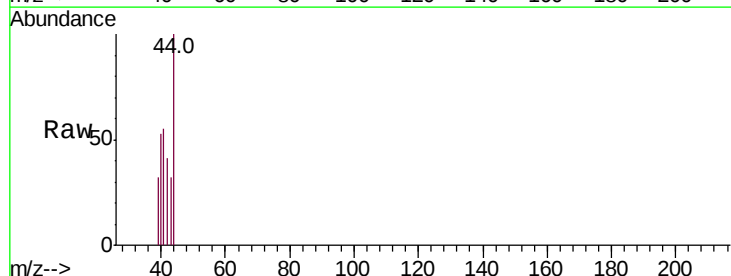
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(A-0)

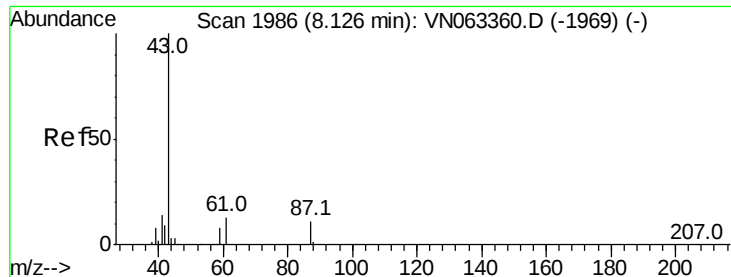
Tot Ion:117 Resp: 27294
Ion Ratio Lower Upper
117 100
119 3.8 74.5 111.7#
121 0.0 24.1 36.1#



#41
Methacrylonitrile
Concen: 0.332 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. 0.03 min
Lab File: VN063395.D
Acq: 17 Sep 2020 4:15

Tgt Ion: 41 Resp: 703
Ion Ratio Lower Upper
41 100
39 9.7 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0





#43

Isopropyl Acetate

Concen: 6.390 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(A-0)

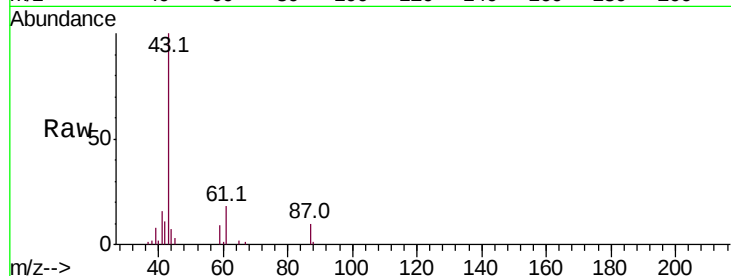
Tot Ion: 43 Resp: 53808

Ion Ratio Lower Upper

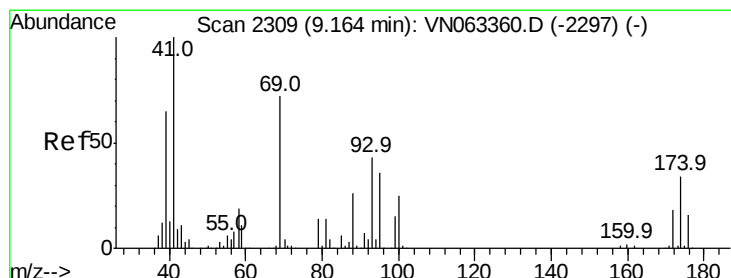
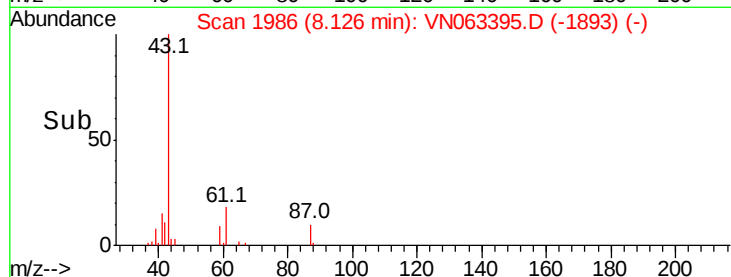
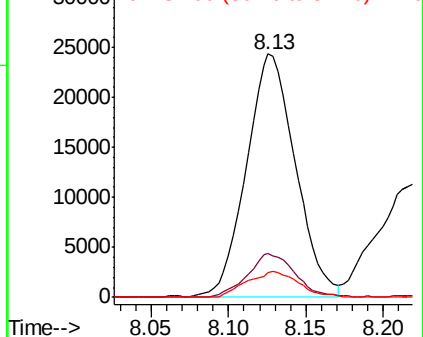
43 100

61 17.4 14.2 21.2

87 11.2 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.203 ug/l

RT: 9.14 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

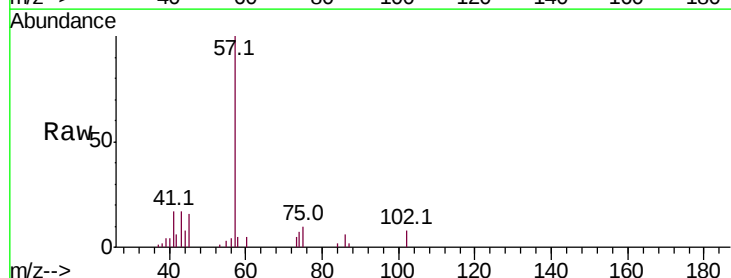
Tgt Ion: 41 Resp: 4975

Ion Ratio Lower Upper

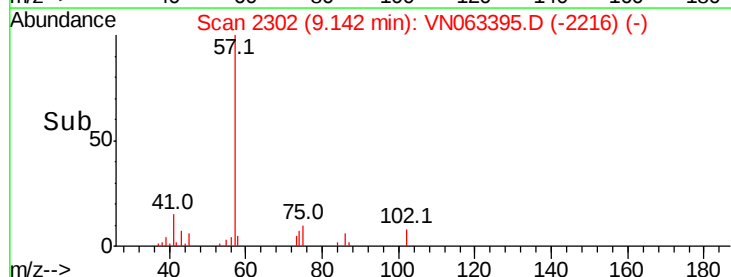
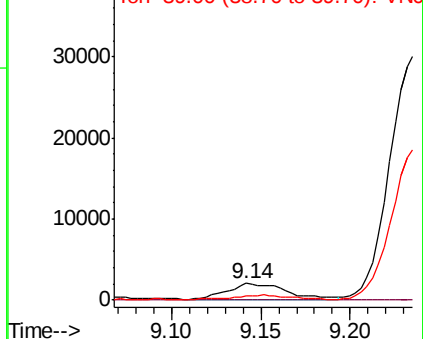
41 100

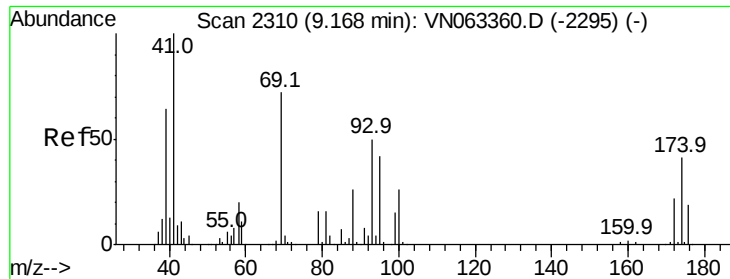
69 0.0 59.3 88.9#

39 28.9 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

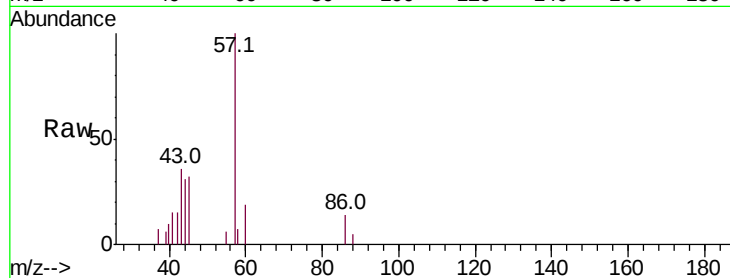




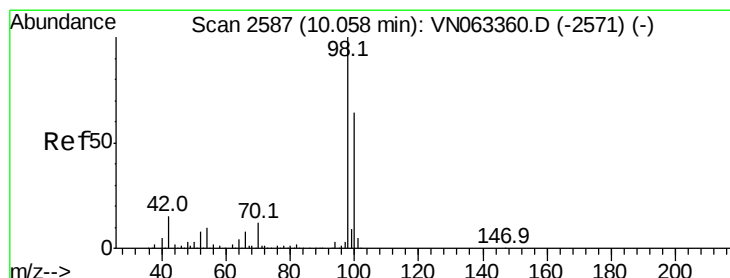
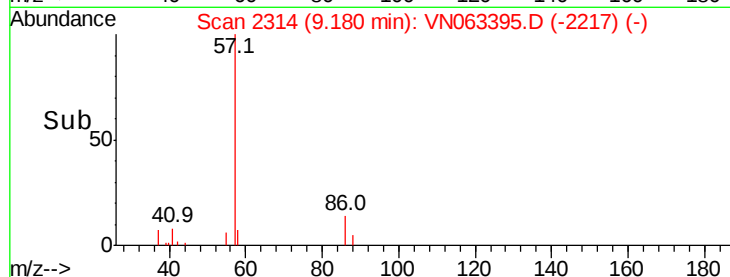
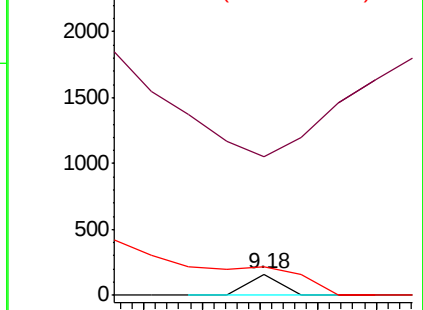
#49
1,4-Dioxane
Concen: 0.522 ug/l
RT: 9.18 min Scan# 2314
Delta R.T. 0.01 min
Lab File: VN063395.D
Acq: 17 Sep 2020 4:15

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(A-0)

Tot Ion: 88 Resp: 31
Ion Ratio Lower Upper
88 100
43 0.0 32.6 49.0#
58 0.0 60.0 90.0#

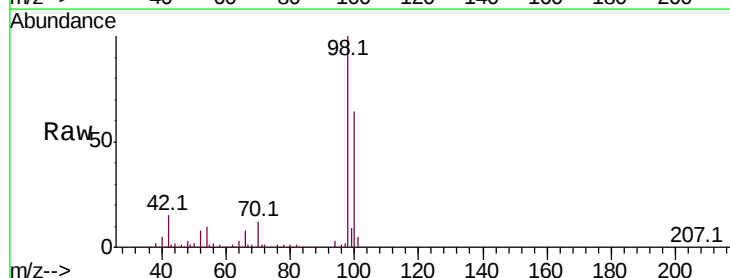


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

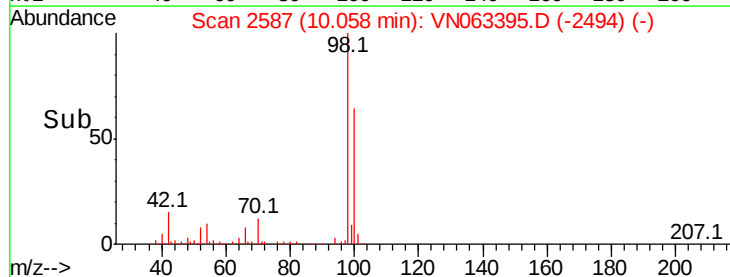
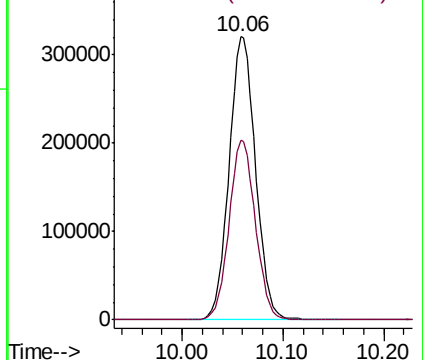


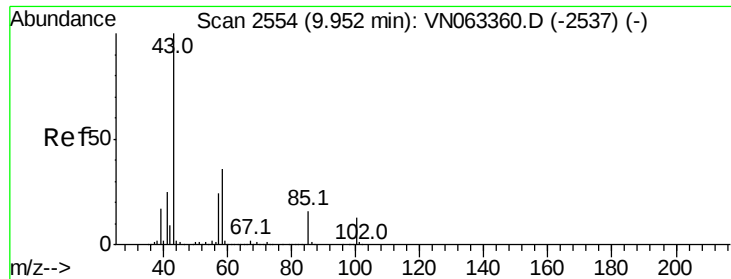
#50
Toluene-d8
Concen: 50.046 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN063395.D
Acq: 17 Sep 2020 4:15

Tgt Ion: 98 Resp: 586722
Ion Ratio Lower Upper
98 100
100 63.1 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: 1.821 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

Instrument :

MSVOA_N

ClientSampleId :

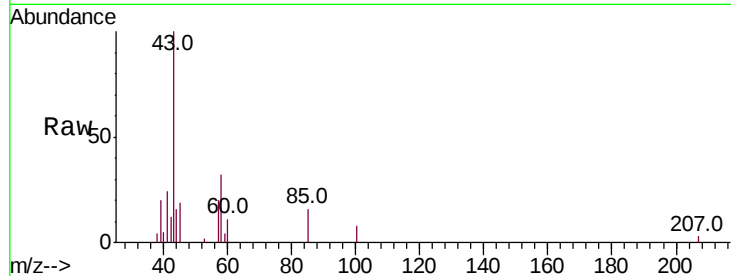
REACTOR-6E-(A-0)

Tot Ion: 43 Resp: 8586

Ion Ratio Lower Upper

43 100

58 41.5 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) (-)

25000

20000

15000

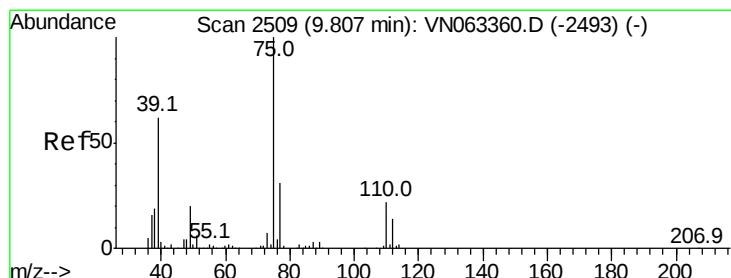
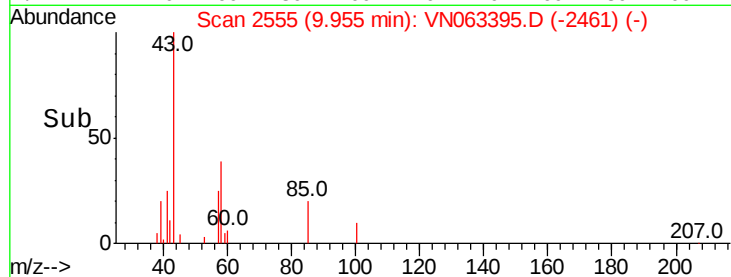
10000

5000

0

9.90 9.95 10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.182 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

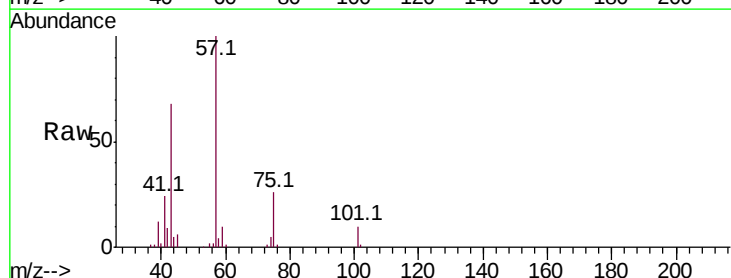
Tgt Ion: 75 Resp: 31083

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 44.0 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

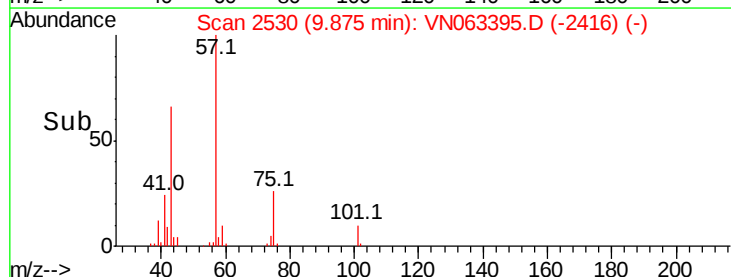
10000

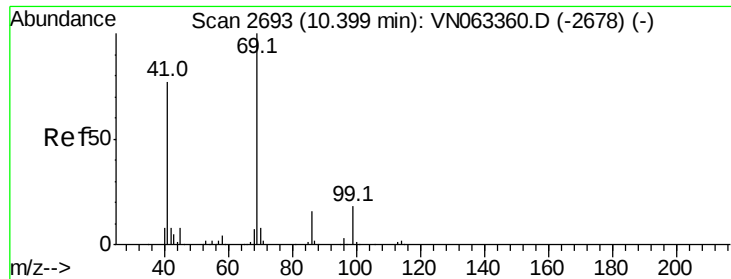
5000

0

9.80 9.85 9.90 9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.257 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(A-0)

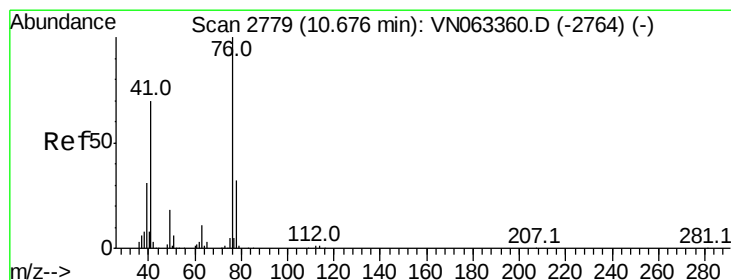
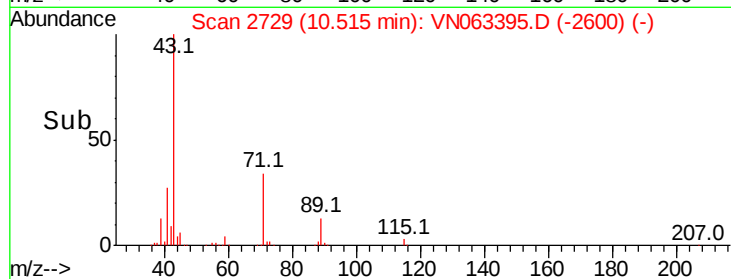
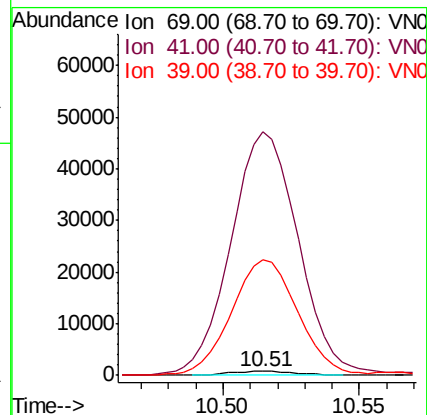
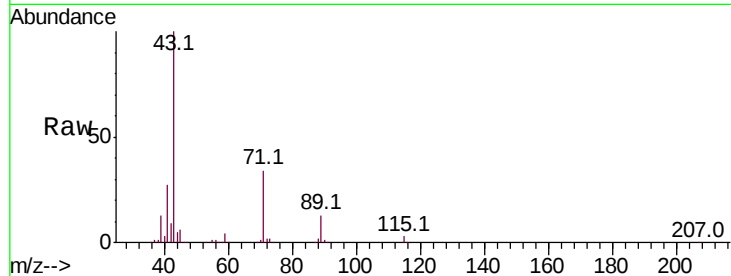
Tot Ion: 69 Resp: 1312

Ion Ratio Lower Upper

69 100

41 6224.8 61.0 91.6#

39 2889.7 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.631 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063395.D

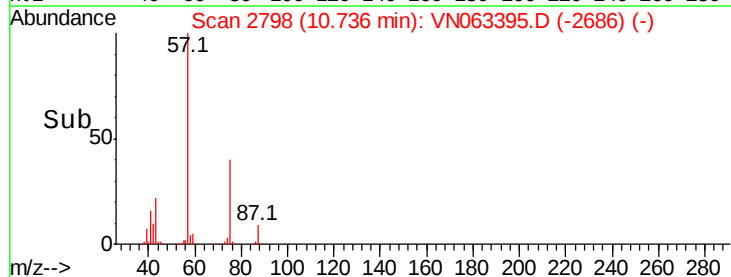
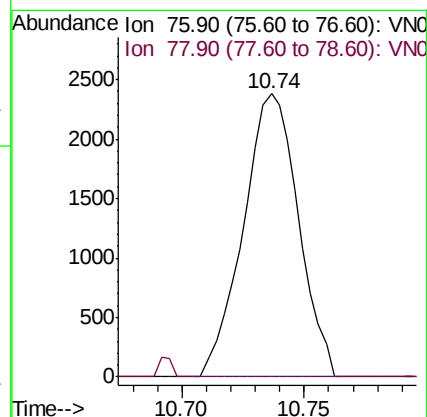
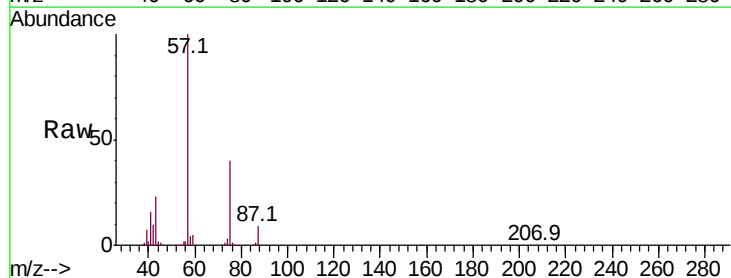
Acq: 17 Sep 2020 4:15

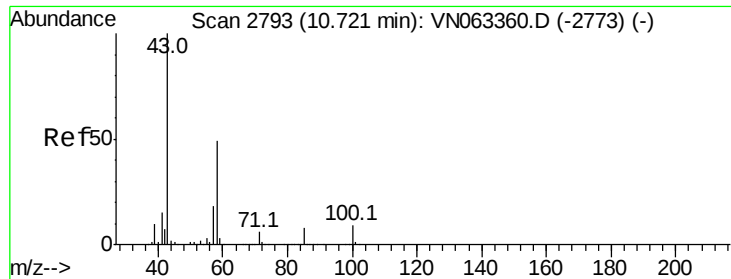
Tgt Ion: 76 Resp: 3722

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 17.769 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

Instrument :

MSVOA_N

ClientSampleId :

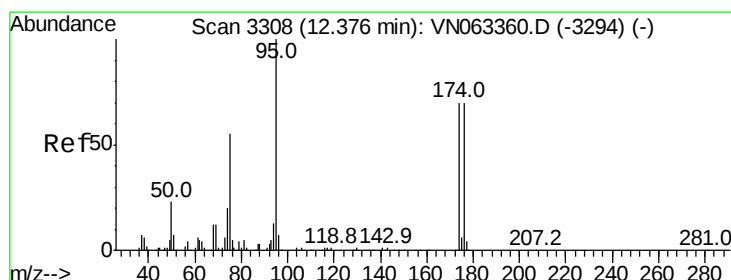
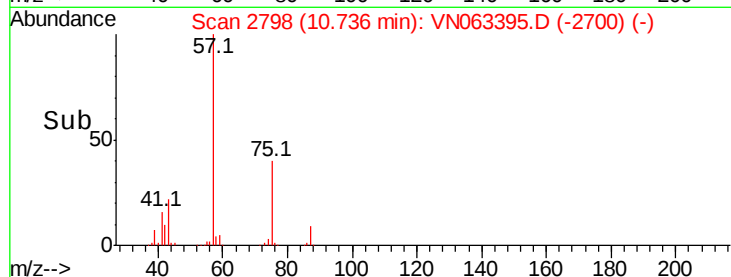
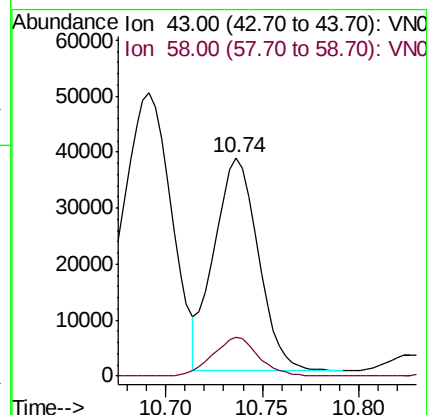
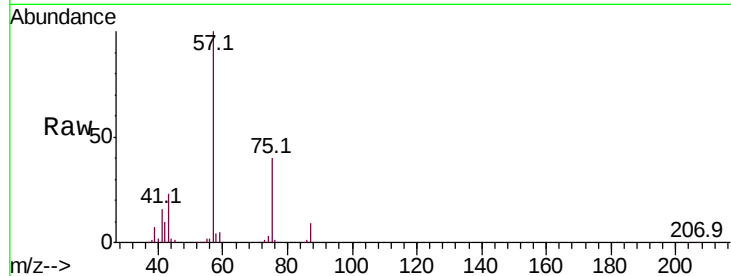
REACTOR-6E-(A-0)

Tot Ion: 43 Resp: 60685

Ion Ratio Lower Upper

43 100

58 18.9 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 53.594 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

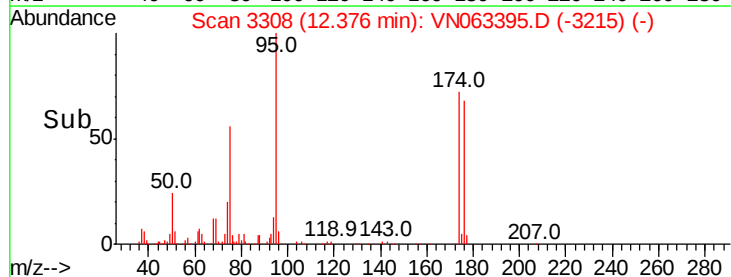
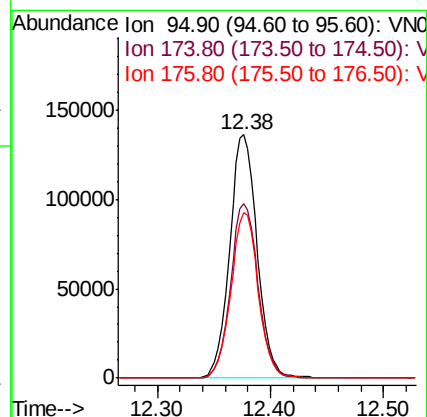
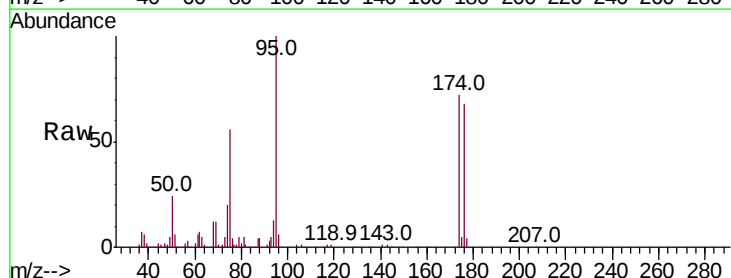
Tgt Ion: 95 Resp: 230331

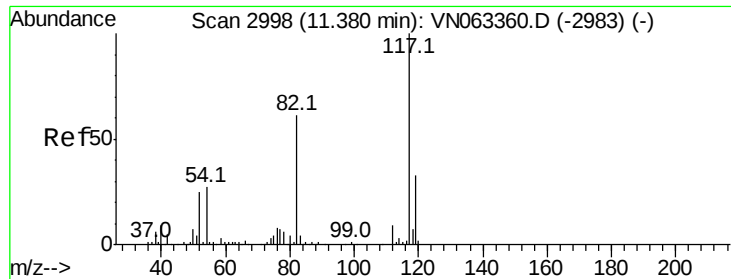
Ion Ratio Lower Upper

95 100

174 71.8 0.0 140.8

176 67.5 0.0 137.6

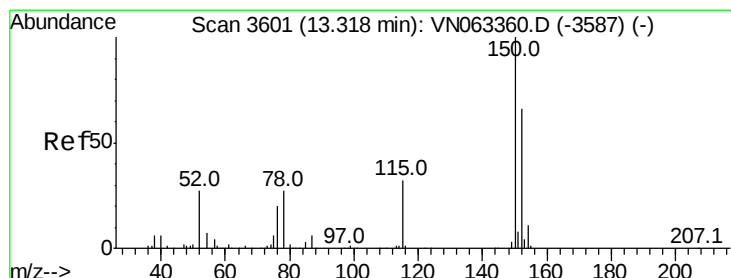
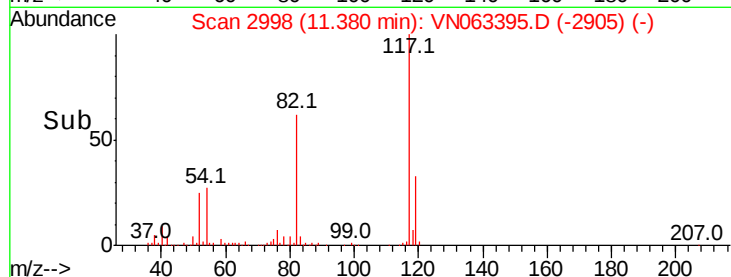
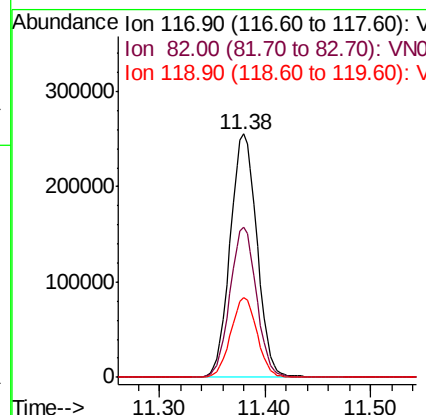
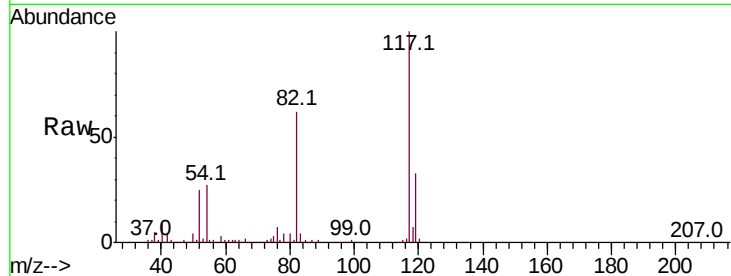




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063395.D
Acq: 17 Sep 2020 4:15

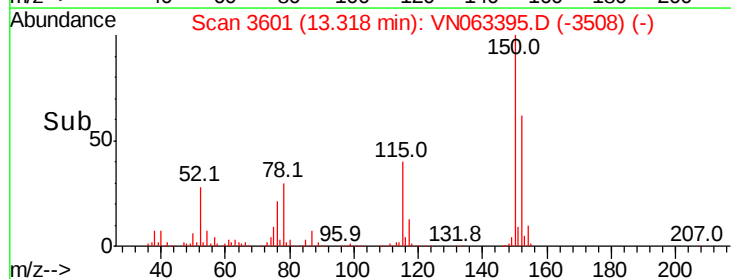
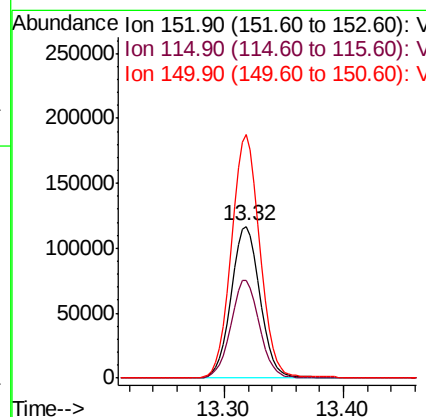
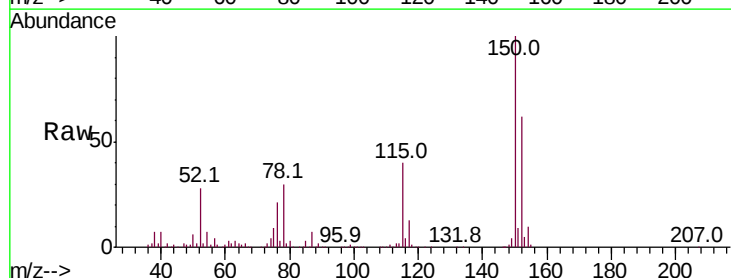
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(A-0)

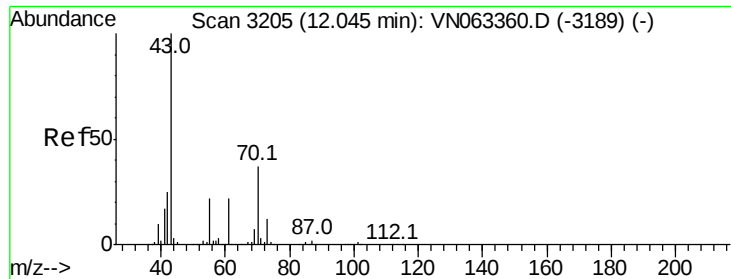
Tot Ion:117 Resp: 447991
Ion Ratio Lower Upper
117 100
82 61.8 49.2 73.8
119 32.7 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063395.D
Acq: 17 Sep 2020 4:15

Tgt Ion:152 Resp: 196633
Ion Ratio Lower Upper
152 100
115 63.9 32.2 96.6
150 157.6 0.0 343.4

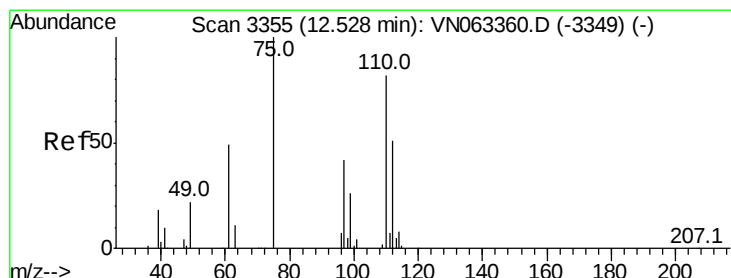
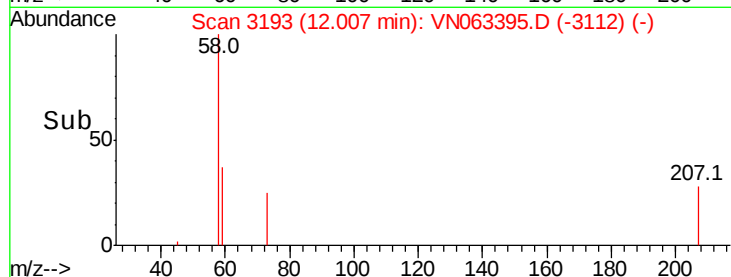
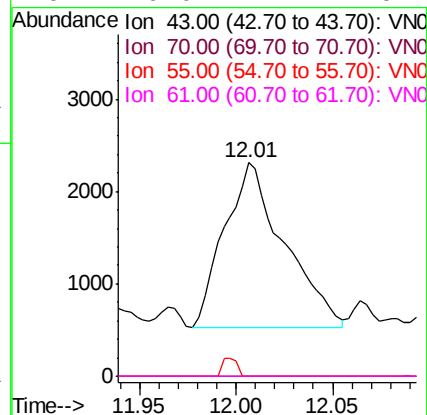
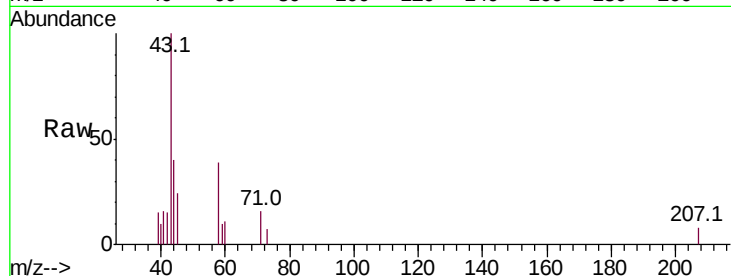




#74
N-amvl acetate
Concen: 0.519 ug/l
RT: 12.01 min Scan# 3193
Delta R.T. -0.04 min
Lab File: VN063395.D
Acq: 17 Sep 2020 4:15

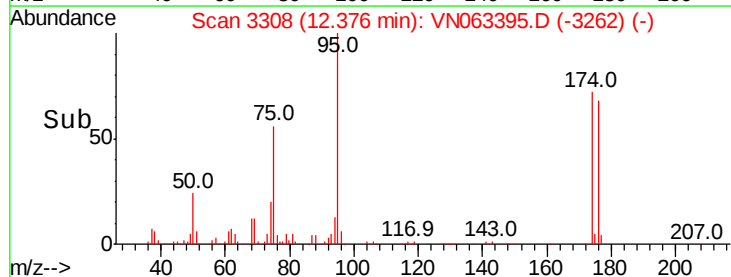
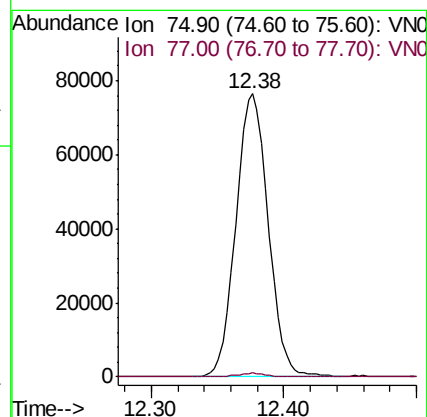
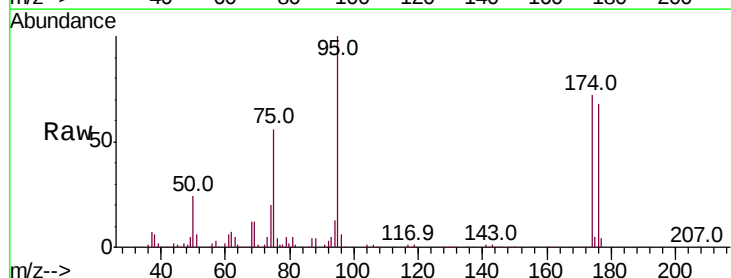
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(A-0)

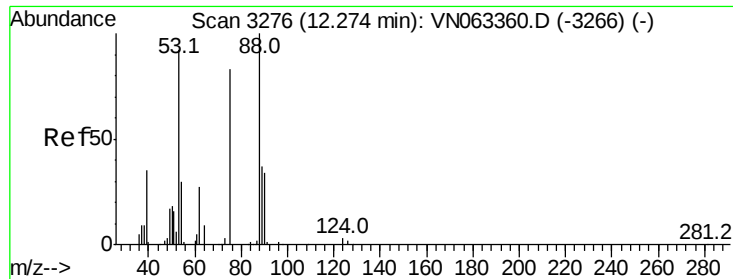
Tot Ion: 43 Resp: 3873
Ion Ratio Lower Upper
43 100
70 0.0 29.6 44.4#
55 2.8 17.7 26.5#
61 0.0 17.4 26.2#



#76
1,2,3-Trichloropropane
Concen: 26.612 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN063395.D
Acq: 17 Sep 2020 4:15

Tgt Ion: 75 Resp: 129521
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 72.961 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063395.D

Acq: 17 Sep 2020 4:15

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(A-0)

Tot Ion: 75 Resp: 129521

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

