

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091720\
 Data File : VN063425.D
 Acq On : 17 Sep 2020 17:37
 Operator : JC/MD
 Sample : L4015-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

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

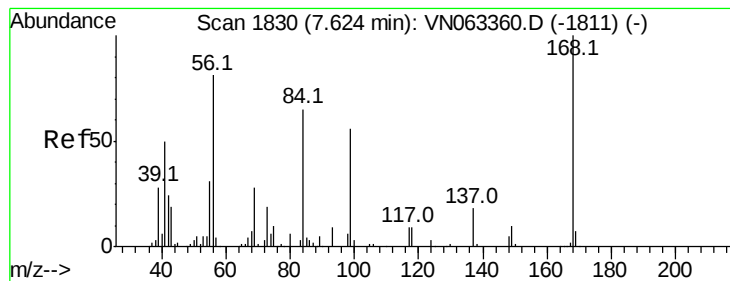
Quant Time: Sep 18 02:51:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	224967	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	421602	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	421384	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	176808	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	184865	48.27	ug/l	0.00
Spiked Amount			Recovery	=	96.54%	
35) Dibromofluoromethane	7.55	113	134380	46.04	ug/l	0.00
Spiked Amount			Recovery	=	92.08%	
50) Toluene-d8	10.06	98	543280	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
62) 4-Bromofluorobenzene	12.38	95	214280	53.26	ug/l	0.00
Spiked Amount			Recovery	=	106.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.39	74	633	0.364	ug/l	86
16) Acetone	3.78	43	13789	11.204	ug/l	91
18) Methyl Acetate	4.27	43	1175	0.376	ug/l #	1
20) Methylene Chloride	4.50	84	13446	4.312	ug/l	95
25) 2-Butanone	6.79	43	2133	1.127	ug/l #	80
29) Tetrahydrofuran	7.14	42	292	0.226	ug/l #	48
31) Cyclohexane	7.62	56	7004	1.324	ug/l #	48
36) 1,1-Dichloropropene	7.63	75	21065	4.690	ug/l #	50
38) Carbon Tetrachloride	7.63	117	25792	5.625	ug/l #	17
43) Isopropyl Acetate	8.13	43	78516	9.961	ug/l	98
45) 1,2-Dichloropropane	9.24	63	1143	0.327	ug/l #	43
48) Methyl methacrylate	9.15	41	4276	1.104	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	10317	2.338	ug/l	91
54) cis-1,3-Dichloropropene	9.87	75	30948	5.512	ug/l #	63
56) Ethyl methacrylate	10.51	69	1085	0.227	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3918	0.710	ug/l #	42
59) 2-Hexanone	10.74	43	60358	18.880	ug/l #	53
71) Bromoform	12.37	173	1050	0.430	ug/l #	1
74) N-amyl acetate	12.01	43	2649	0.395	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	119903	27.399	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	119903	75.117	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

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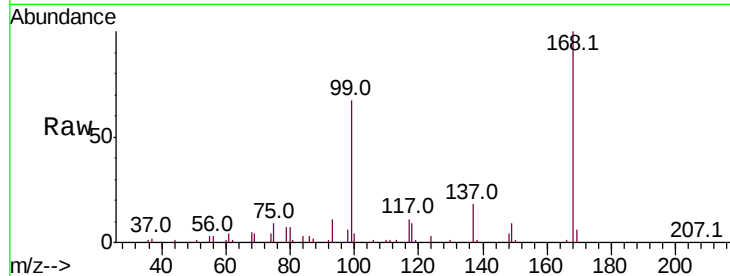
REACTOR-5W-(B-0)

Tot Ion:168 Resp: 224967

Ion Ratio Lower Upper

168 100

99 66.7 53.0 79.6



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

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

7.63

100000

80000

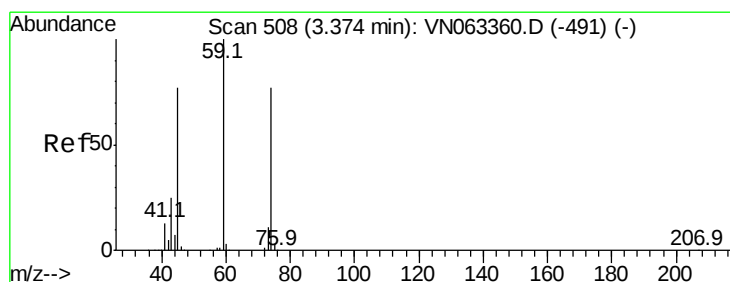
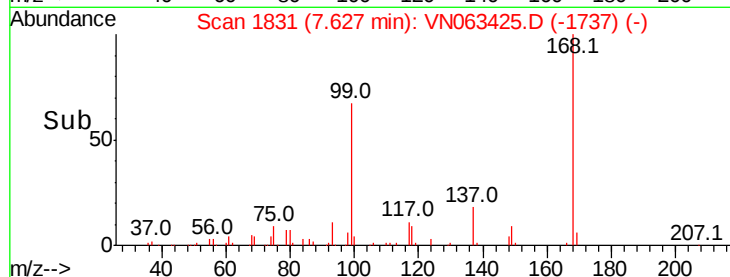
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#8

Diethyl Ether

Concen: 0.364 ug/l

RT: 3.39 min Scan# 512

Delta R.T. 0.01 min

Lab File: VN063425.D

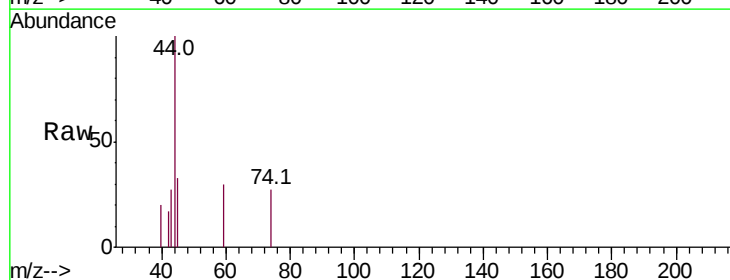
Acq: 17 Sep 2020 17:37

Tgt Ion: 74 Resp: 633

Ion Ratio Lower Upper

74 100

45 118.2 52.1 156.4



Abundance Ion 74.00 (73.70 to 74.70): VN063360.D (-491) (-)

Ion 45.00 (44.70 to 45.70): VN063360.D (-491) (-)

3.39

400

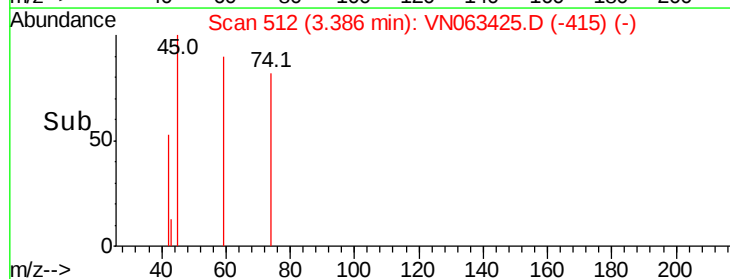
300

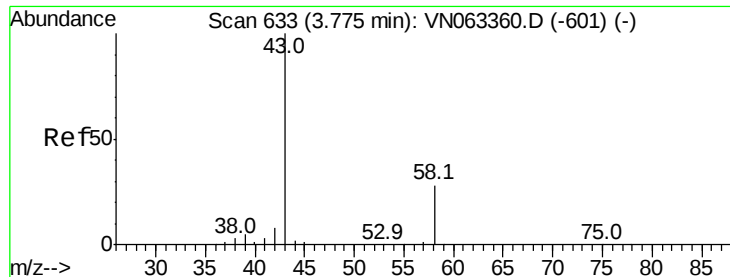
200

100

0

Time--> 3.35 3.40





#16

Acetone

Concen: 11.204 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

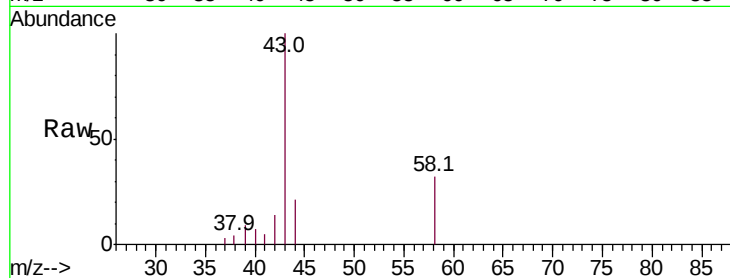
REACTOR-5W-(B-0)

Tot Ion: 43 Resp: 13789

Ion Ratio Lower Upper

43 100

58 32.8 22.3 33.5



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

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

3.78

5000

4000

3000

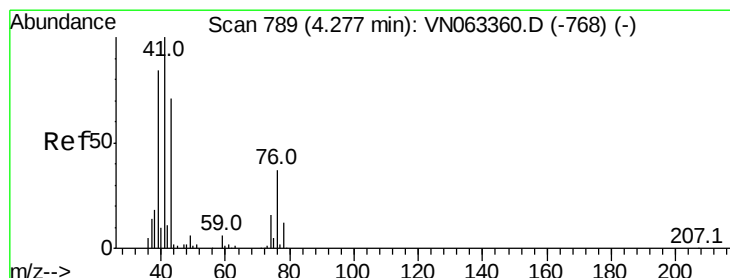
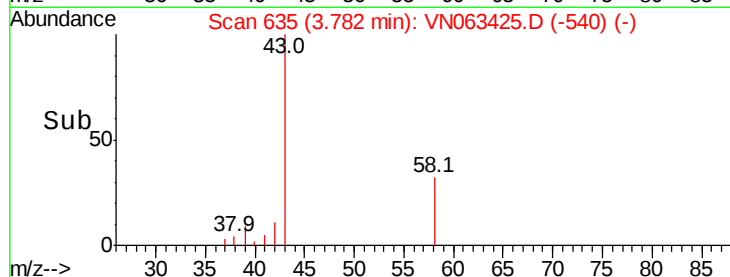
2000

1000

0

3.70 3.75 3.80 3.85 3.90

Time-->



#18

Methyl Acetate

Concen: 0.376 ug/l

RT: 4.27 min Scan# 788

Delta R.T. -0.00 min

Lab File: VN063425.D

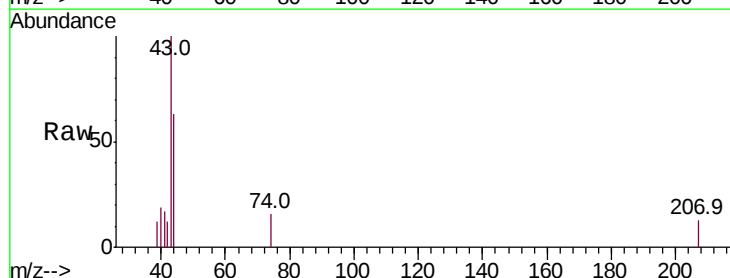
Acq: 17 Sep 2020 17:37

Tgt Ion: 43 Resp: 1175

Ion Ratio Lower Upper

43 100

74 73.9 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN063360.D (-768) (-)

4.27

1500

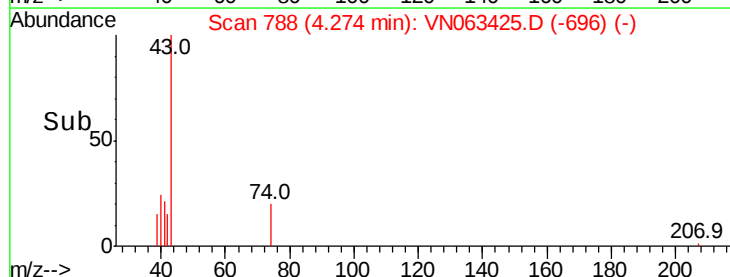
1000

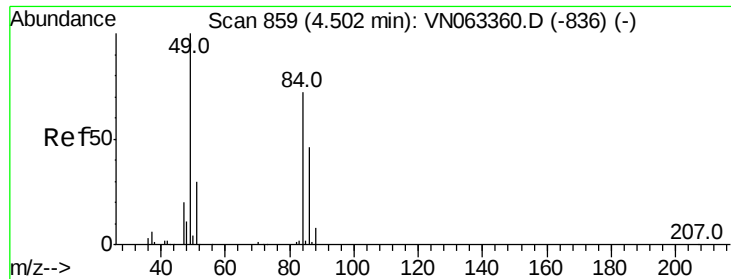
500

0

4.24 4.26 4.28

Time-->

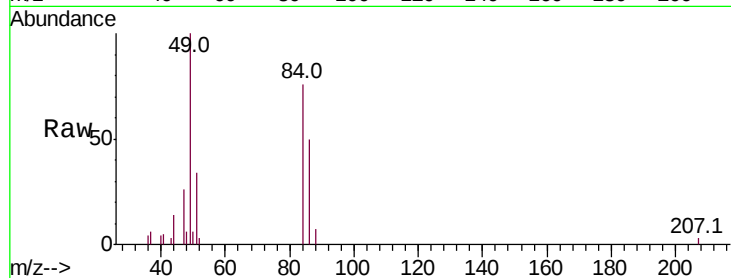




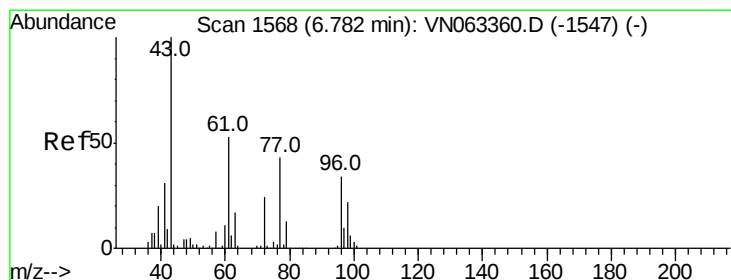
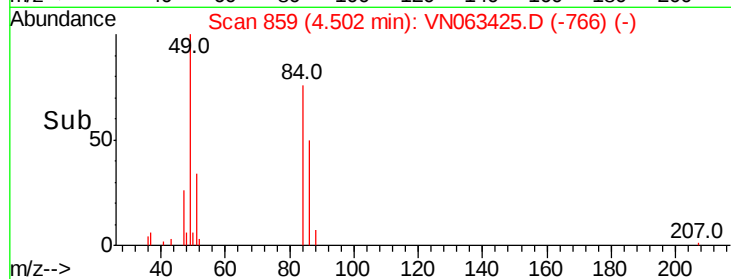
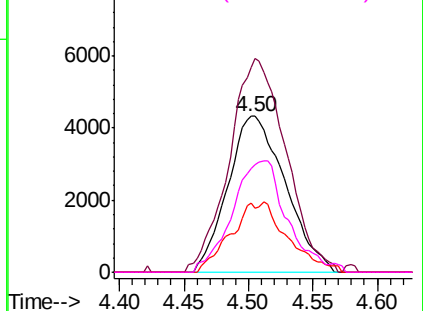
#20
Methvlene Chloride
Concen: 4.312 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063425.D
Acq: 17 Sep 2020 17:37

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

Tot Ion:	84	Resp:	13446
Ion	Ratio	Lower	Upper
84	100		
49	131.6	110.7	166.1
51	44.3	32.9	49.3
86	66.4	51.1	76.7

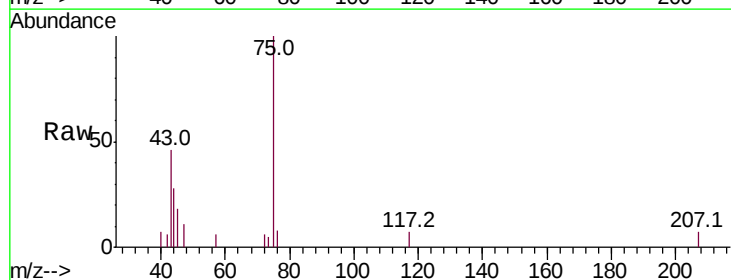


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

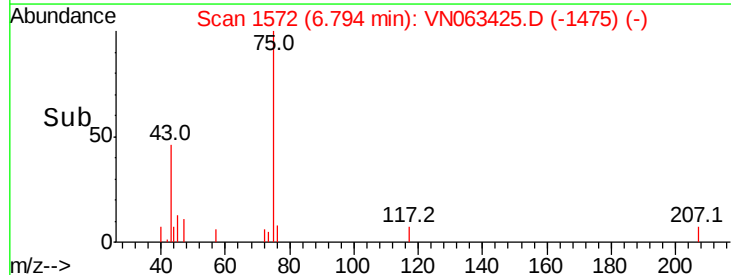
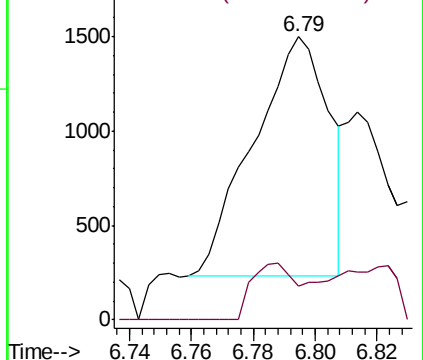


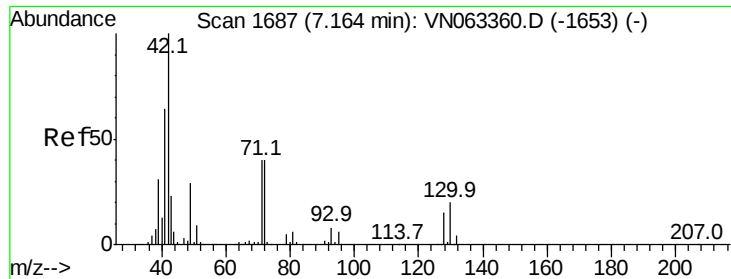
#25
2-Butanone
Concen: 1.127 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063425.D
Acq: 17 Sep 2020 17:37

Tgt Ion:	43	Resp:	2133
Ion	Ratio	Lower	Upper
43	100		
72	14.2	19.2	28.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO

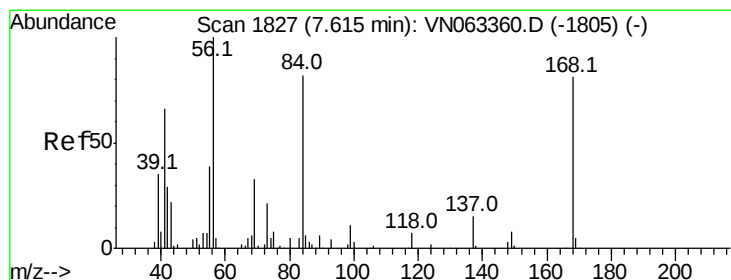
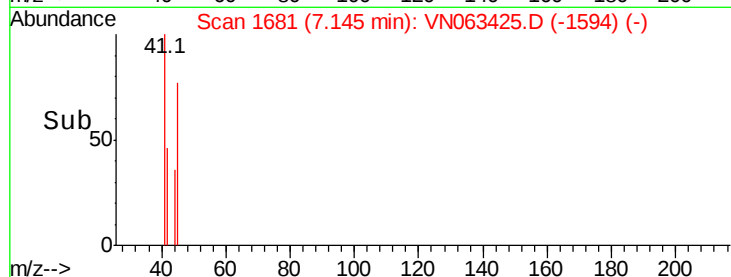
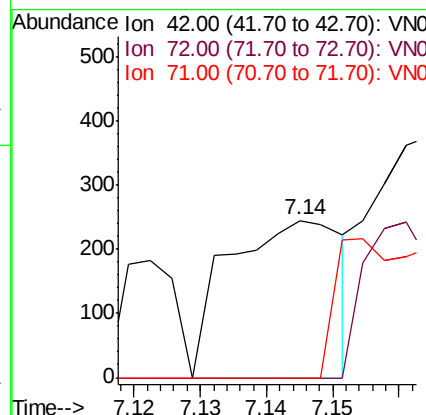
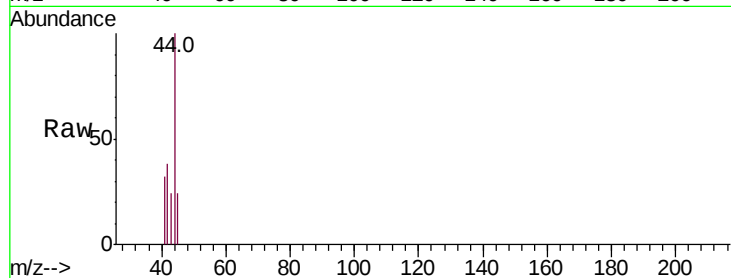




#29
Tetrahydrofuran
Concen: 0.226 ug/l
RT: 7.14 min Scan# 1681
Delta R.T. -0.02 min
Lab File: VN063425.D
Acq: 17 Sep 2020 17:37

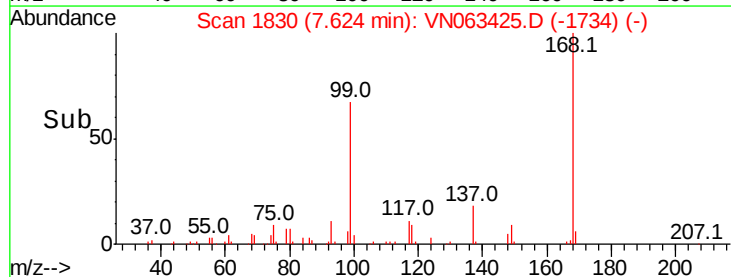
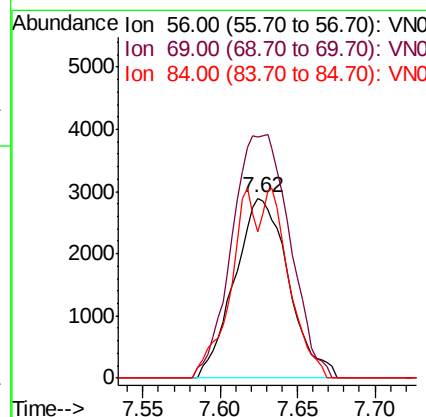
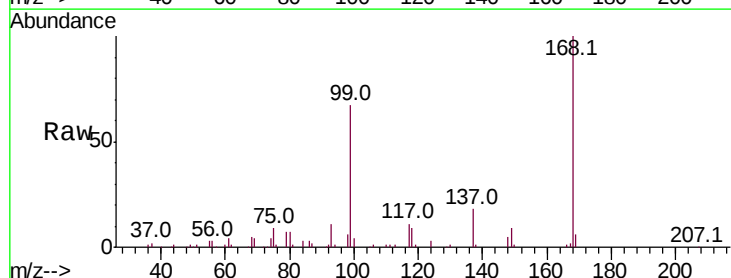
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(B-0)

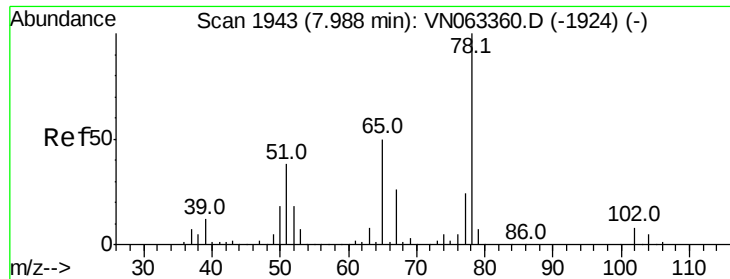
Tot Ion: 42 Resp: 292
Ion Ratio Lower Upper
42 100
72 55.8 32.1 48.1#
71 87.7 31.2 46.8#



#31
Cyclohexane
Concen: 1.324 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063425.D
Acq: 17 Sep 2020 17:37

Tgt Ion: 56 Resp: 7004
Ion Ratio Lower Upper
56 100
69 133.5 26.1 39.1#
84 81.0 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 48.274 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

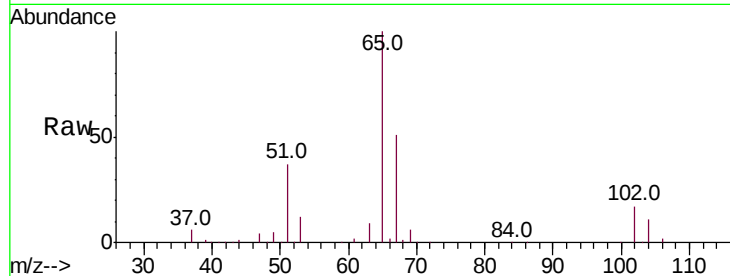
REACTOR-5W-(B-0)

Tot Ion: 65 Resp: 184865

Ion Ratio Lower Upper

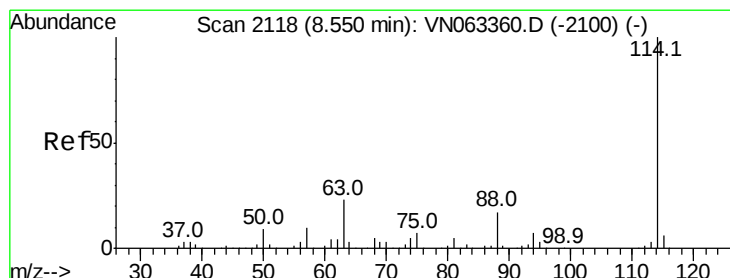
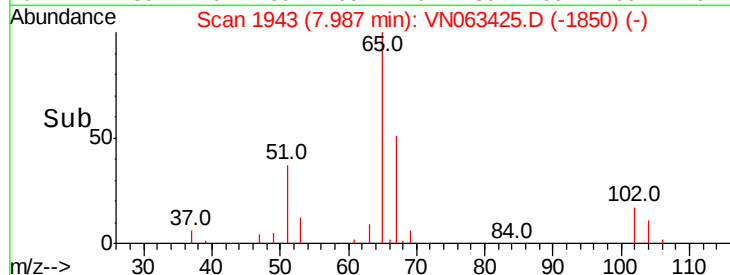
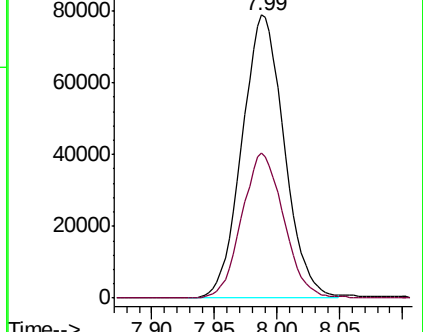
65 100

67 51.0 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN063360.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063360.D (-1924) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

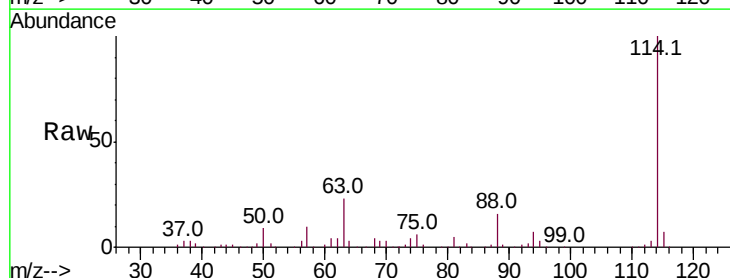
Tgt Ion: 114 Resp: 421602

Ion Ratio Lower Upper

114 100

63 23.4 0.0 46.4

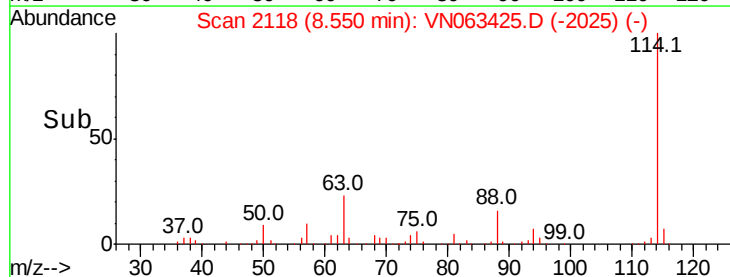
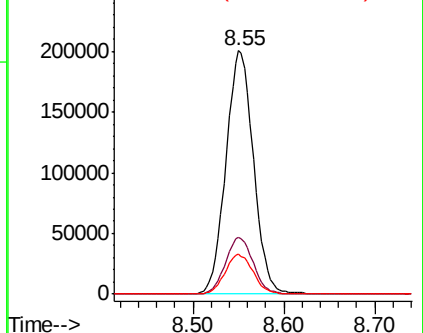
88 16.2 0.0 33.2

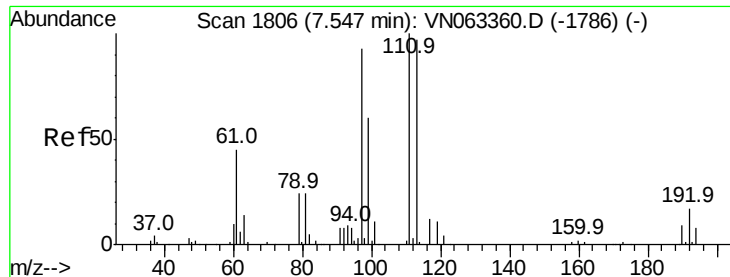


Abundance Ion 113.90 (113.60 to 114.60): VN063360.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN063360.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN063360.D (-2100) (-)





#35

Dibromofluoromethane

Concen: 46.042 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(B-0)

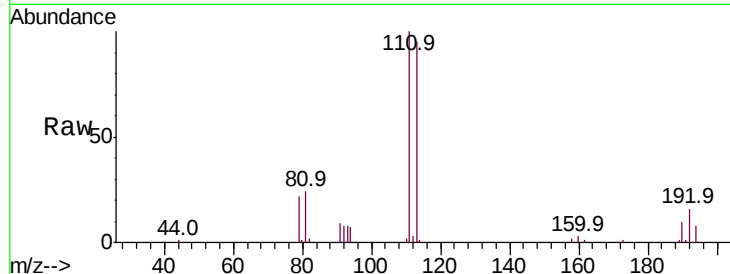
Tot Ion:113 Resp: 134380

Ion Ratio Lower Upper

113 100

111 103.9 82.9 124.3

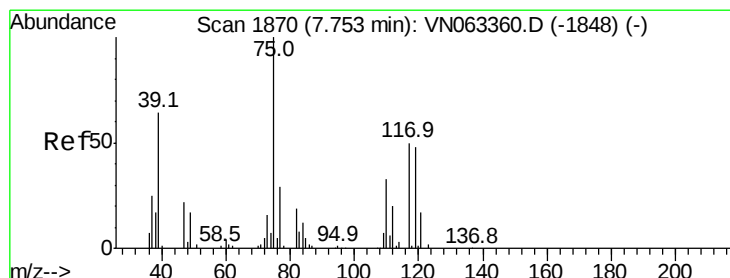
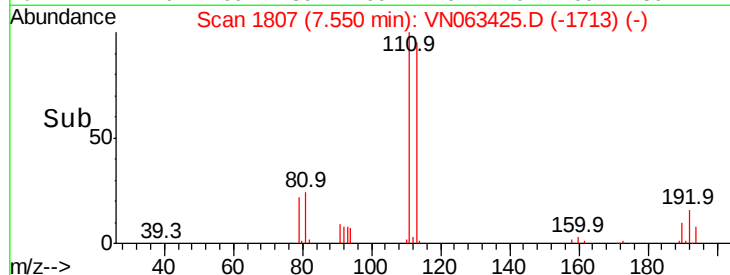
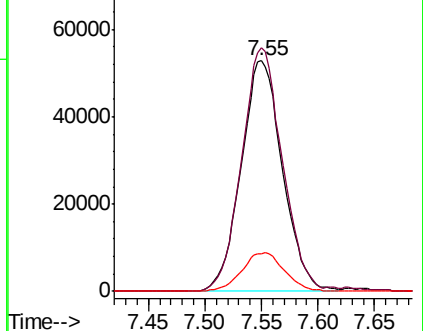
192 17.3 13.9 20.9



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: 4.690 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

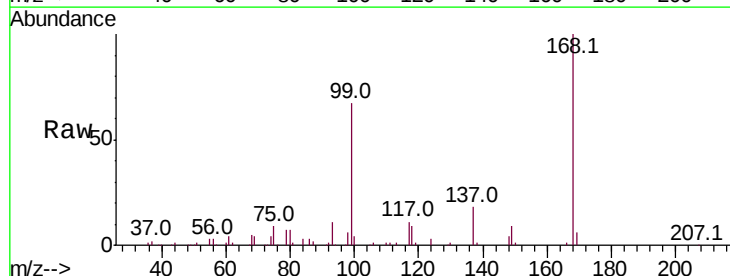
Tgt Ion: 75 Resp: 21065

Ion Ratio Lower Upper

75 100

110 8.1 16.5 49.5#

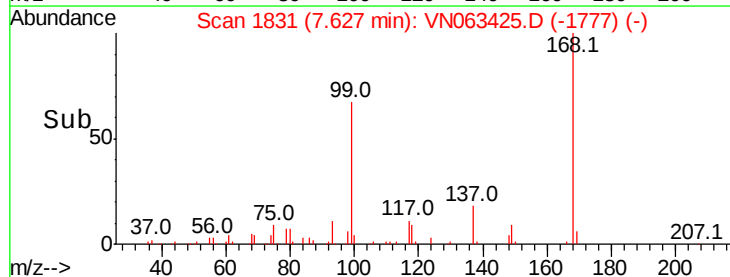
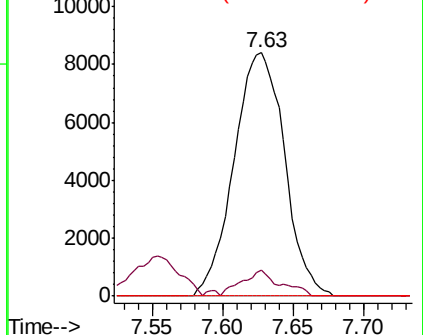
77 0.0 24.6 36.8#

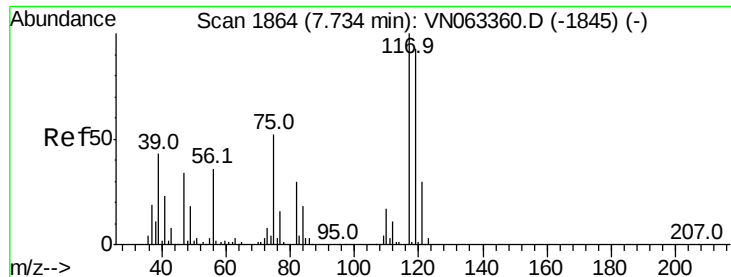


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.625 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(B-0)

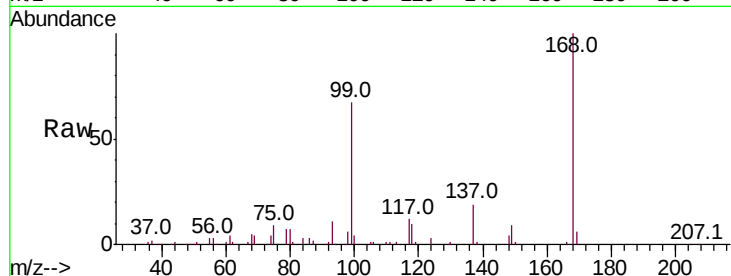
Tot Ion:117 Resp: 25792

Ion Ratio Lower Upper

117 100

119 5.1 74.5 111.7#

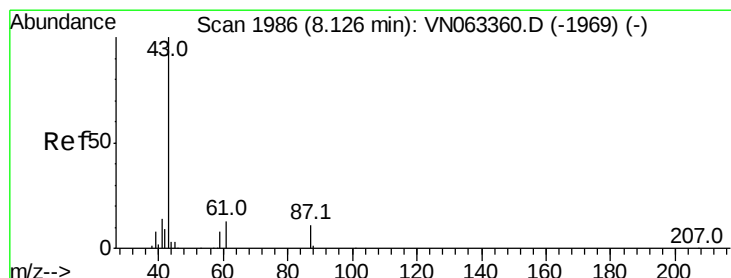
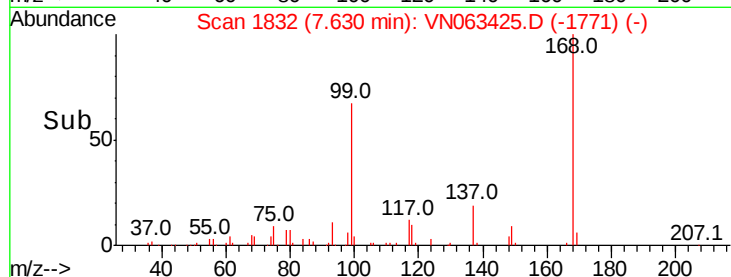
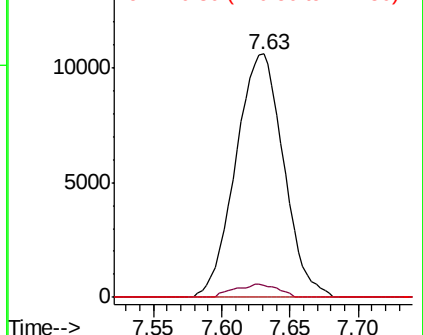
121 0.0 24.1 36.1#



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: 9.961 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

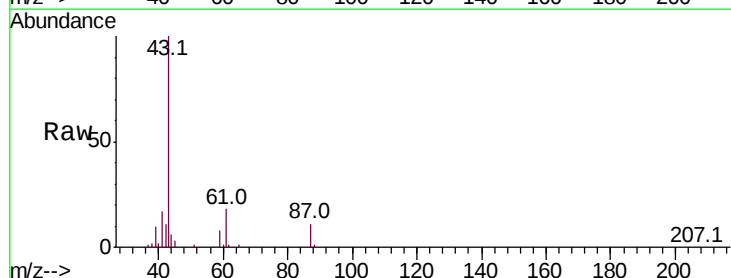
Tgt Ion: 43 Resp: 78516

Ion Ratio Lower Upper

43 100

61 16.4 14.2 21.2

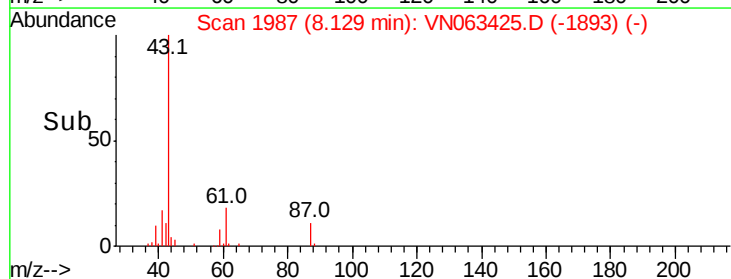
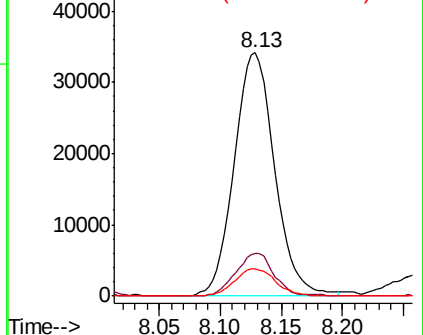
87 11.2 9.0 13.6

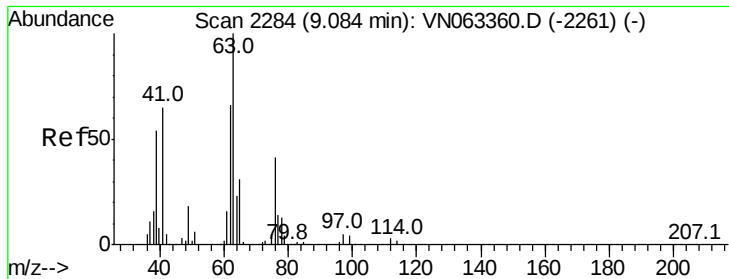


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.327 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

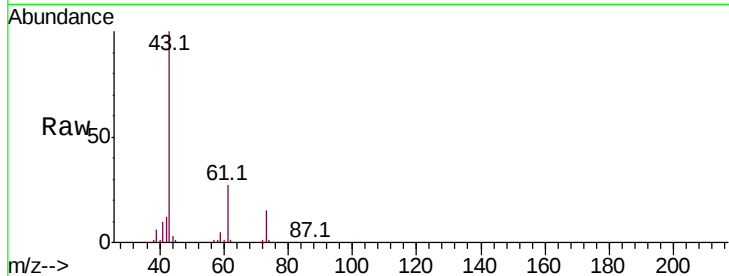
REACTOR-5W-(B-0)

Tot Ion: 63 Resp: 1143

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

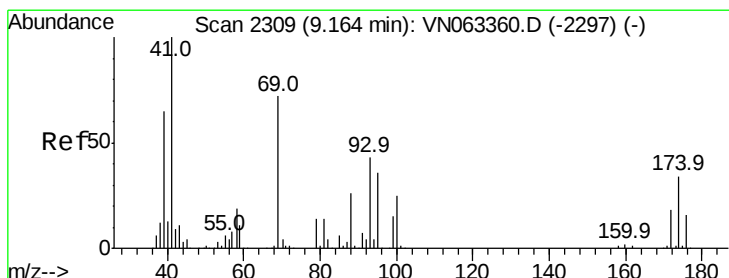
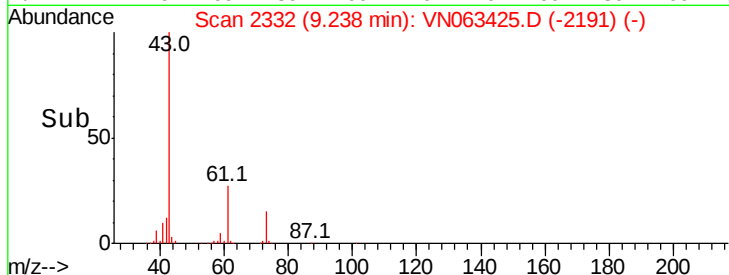
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.104 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

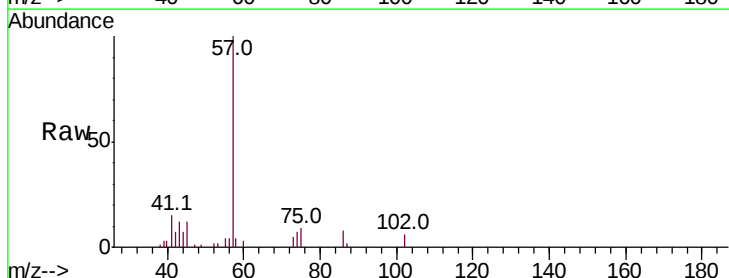
Tgt Ion: 41 Resp: 4276

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

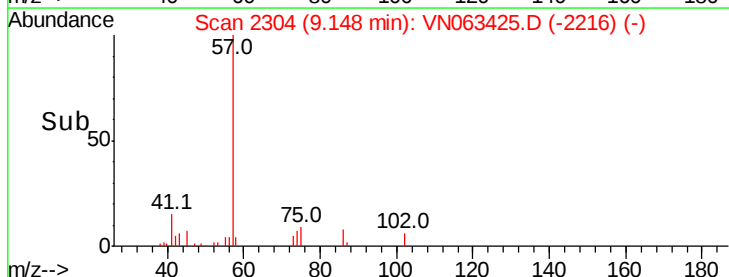
15000

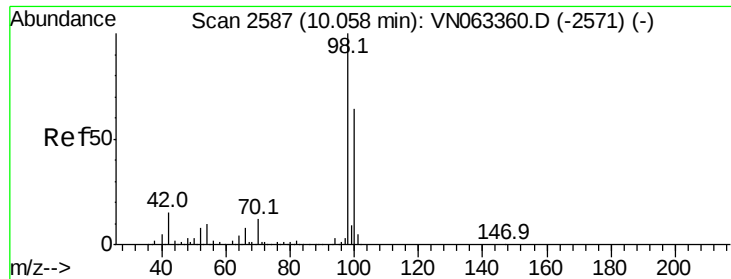
10000

5000

0

Time-->





#50

Toluene-d8

Concen: 49.503 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

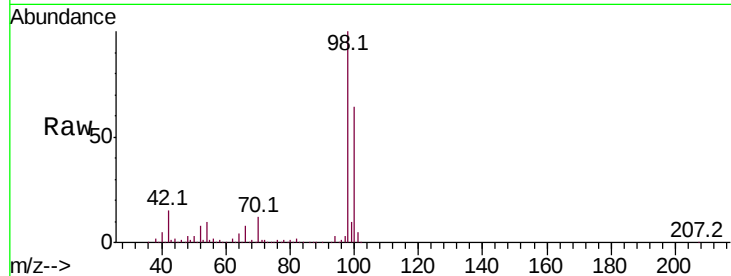
REACTOR-5W-(B-0)

Tot Ion: 98 Resp: 543280

Ion Ratio Lower Upper

98 100

100 63.3 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) (-)

10.06

300000

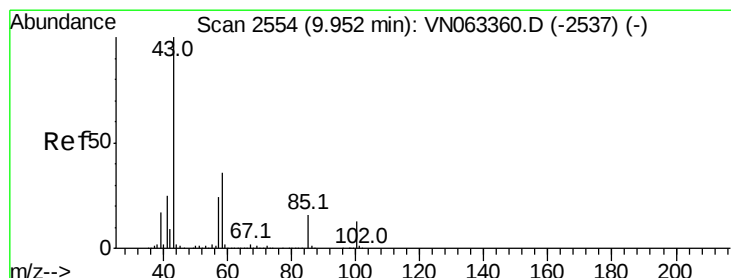
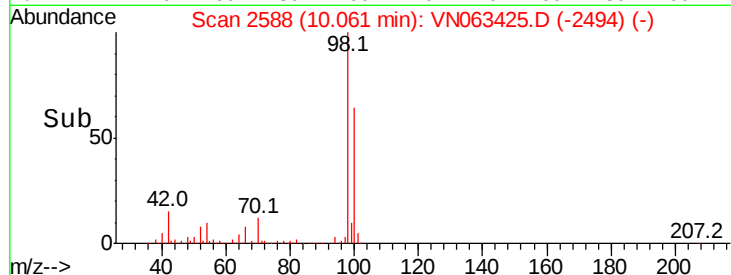
200000

100000

0

Time-->

10.00 10.10



#51

4-Methyl-2-Pentanone

Concen: 2.338 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063425.D

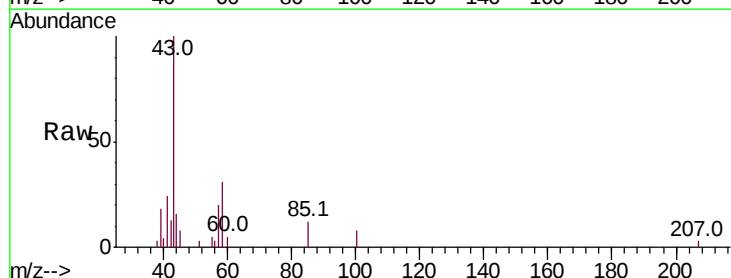
Acq: 17 Sep 2020 17:37

Tgt Ion: 43 Resp: 10317

Ion Ratio Lower Upper

43 100

58 31.2 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) (-)

40000

30000

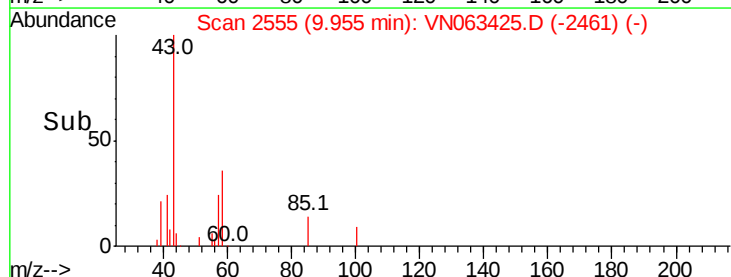
20000

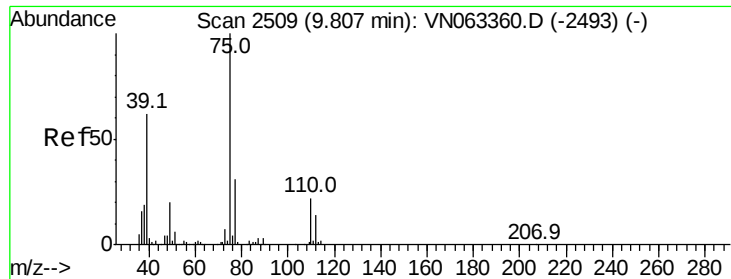
10000

0

Time-->

9.90 9.95 10.00





#54

cis-1,3-Dichloropropene

Concen: 5.512 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(B-0)

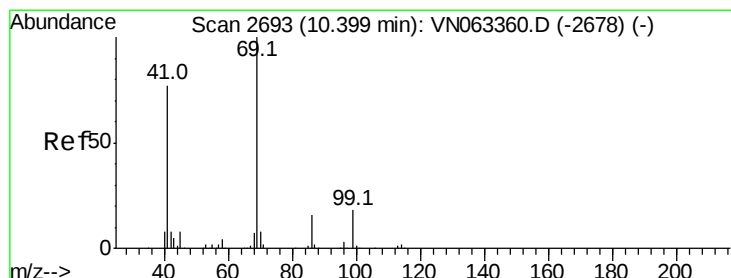
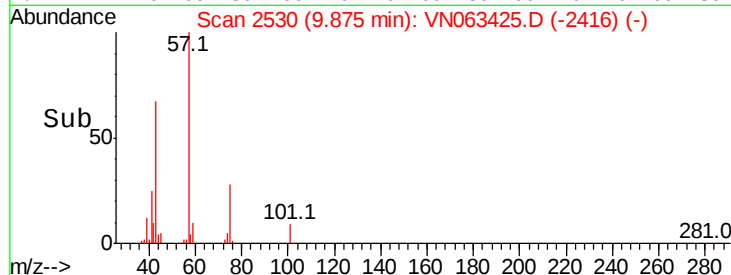
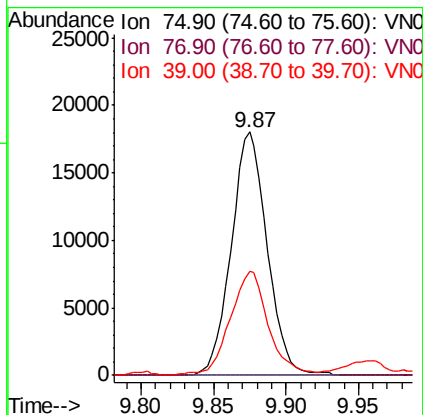
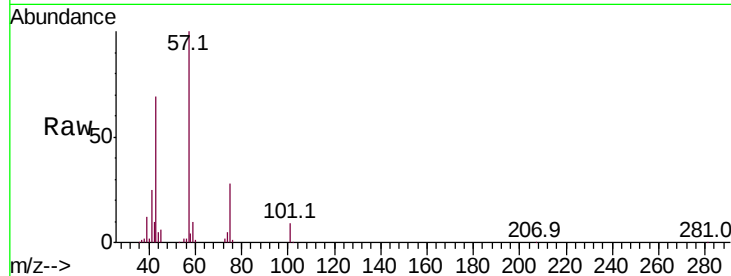
Tot Ion: 75 Resp: 30948

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 41.5 49.8 74.8#



#56

Ethyl methacrylate

Concen: 0.227 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

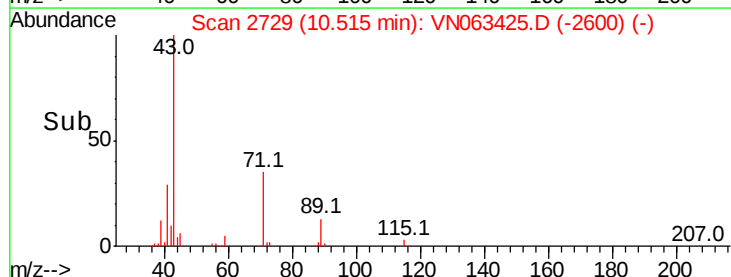
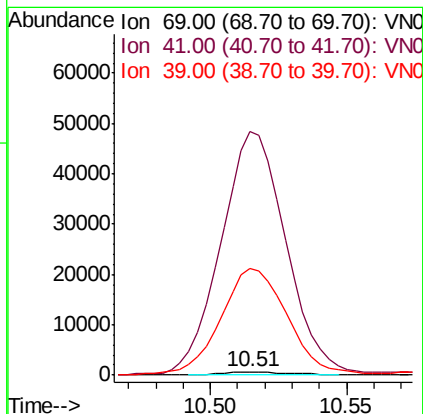
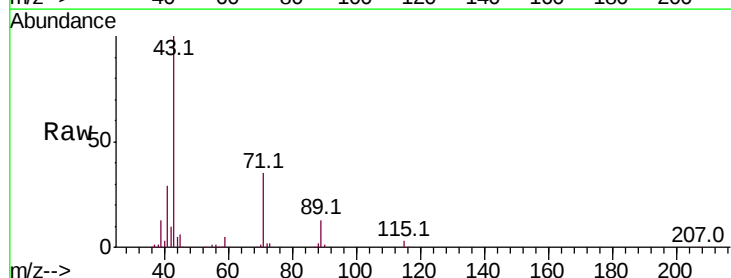
Tgt Ion: 69 Resp: 1085

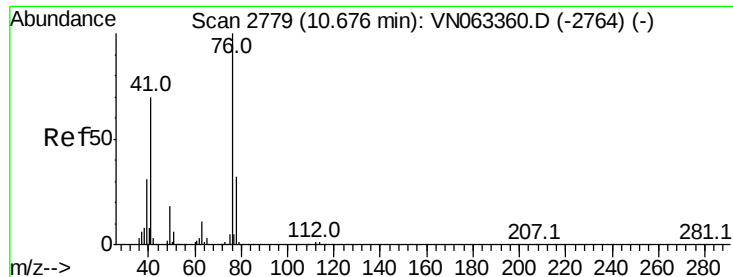
Ion Ratio Lower Upper

69 100

41 7440.8 61.0 91.6#

39 3336.1 39.2 58.8#





#57

1,3-Dichloropropane

Concen: 0.710 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

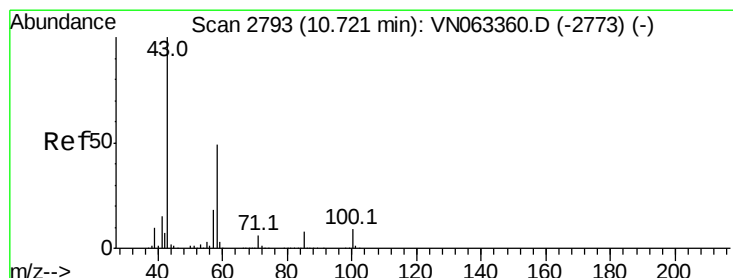
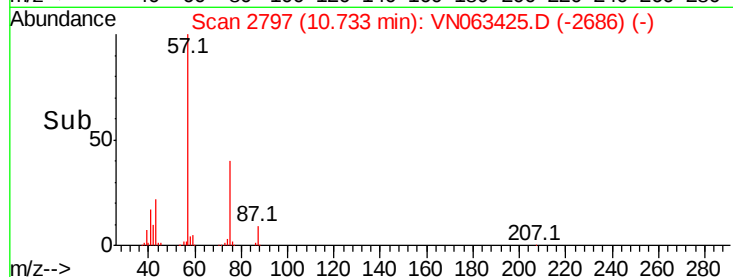
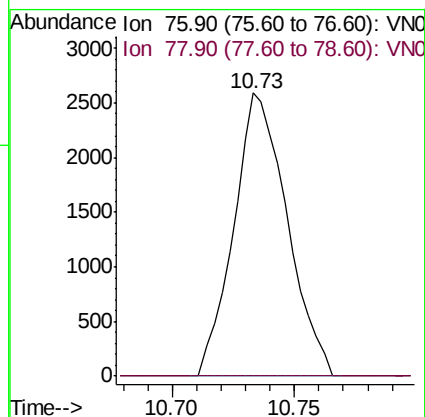
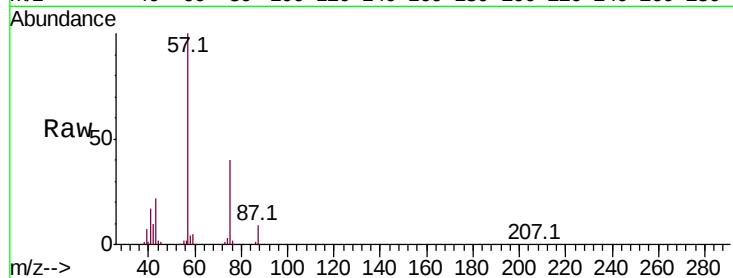
REACTOR-5W-(B-0)

Tot Ion: 76 Resp: 3918

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 18.880 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063425.D

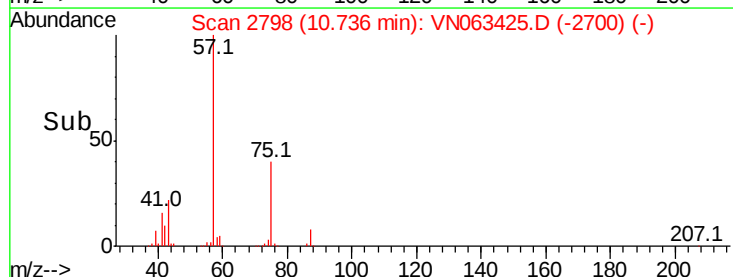
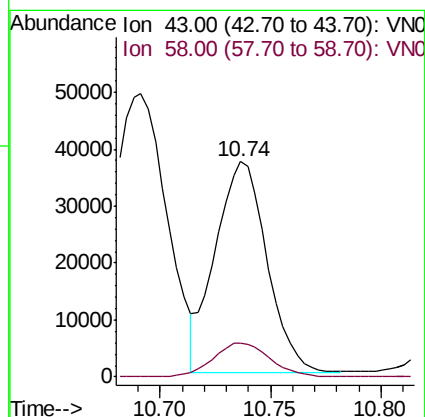
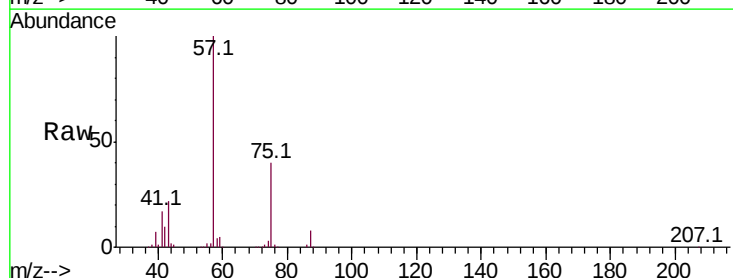
Acq: 17 Sep 2020 17:37

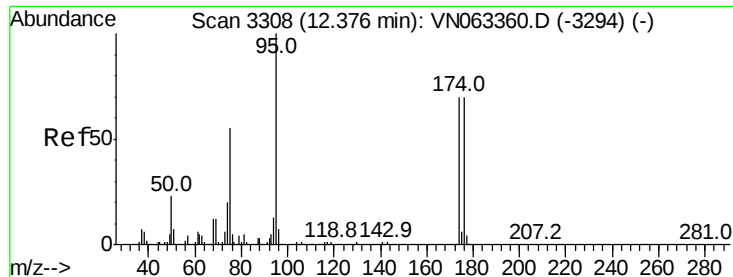
Tgt Ion: 43 Resp: 60358

Ion Ratio Lower Upper

43 100

58 17.5 24.7 74.1#

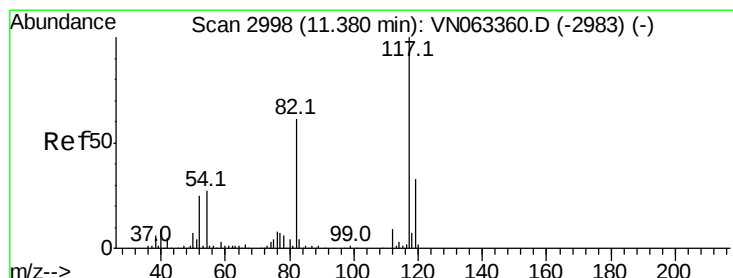
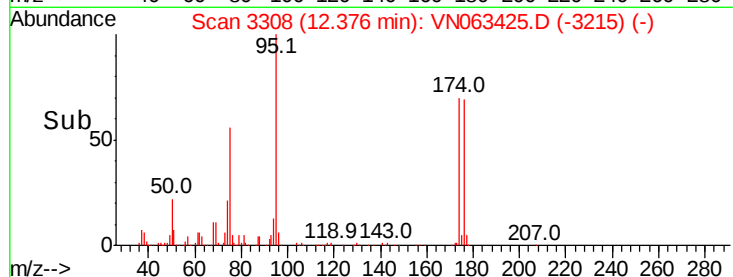
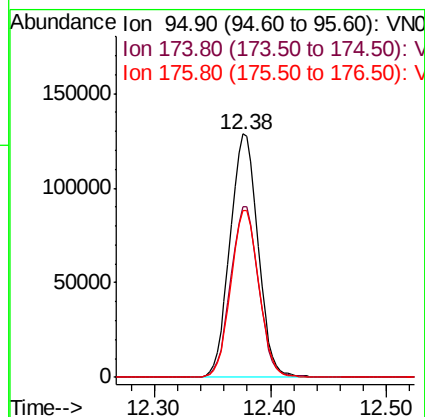
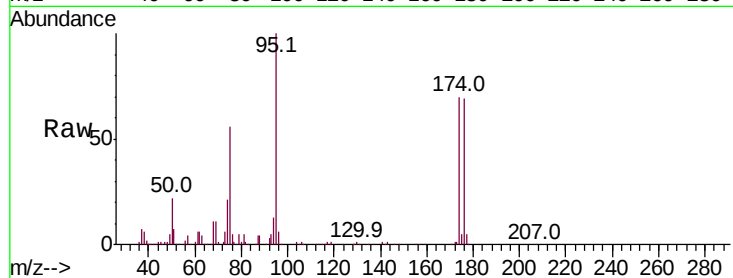




#62
4-Bromofluorobenzene
Concen: 53.262 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063425.D
Acq: 17 Sep 2020 17:37

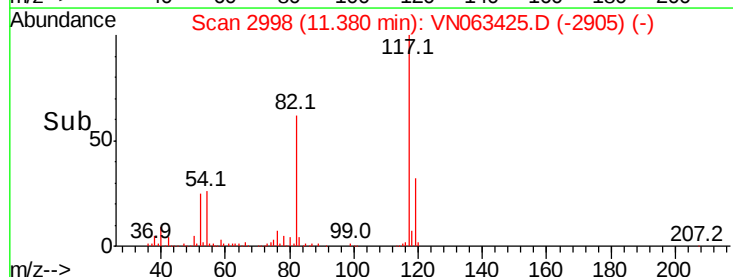
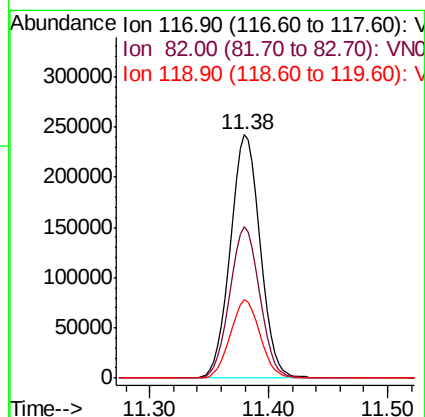
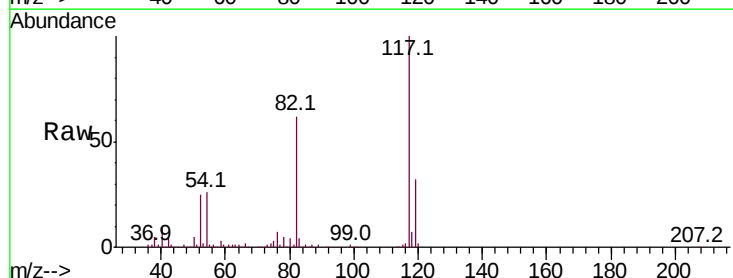
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-5W-(B-0)

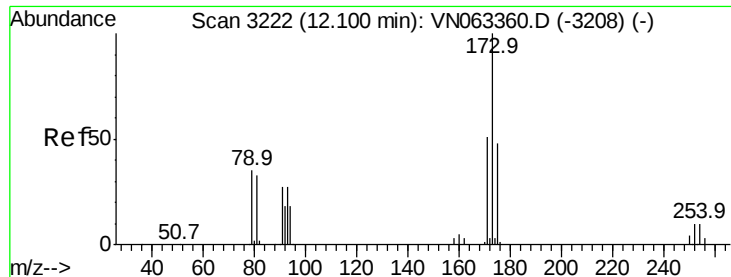
Tot Ion	Ratio	Lower	Upper
95	100		
174	69.9	0.0	140.8
176	68.5	0.0	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063425.D
Acq: 17 Sep 2020 17:37

Tgt Ion	Ratio	Lower	Upper
117	100		
82	62.1	49.2	73.8
119	32.0	26.2	39.4





#71

Bromoform

Concen: 0.430 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(B-0)

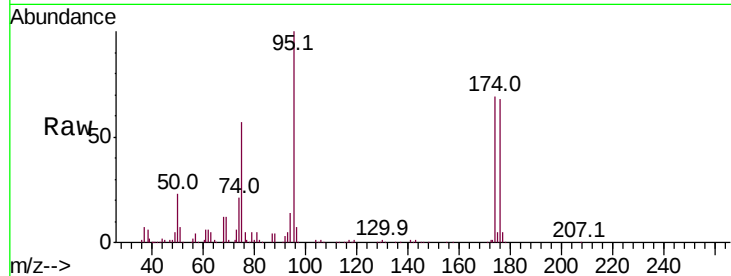
Tot Ion:173 Resp: 1050

Ion Ratio Lower Upper

173 100

175 899.3 24.0 72.0#

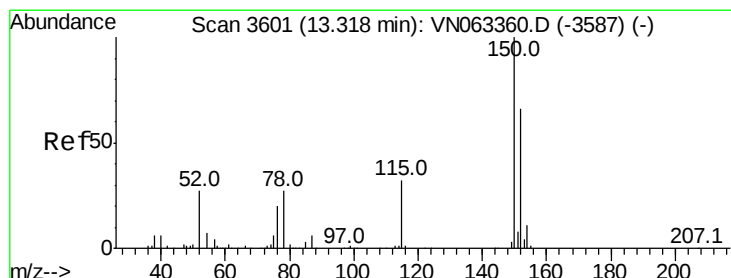
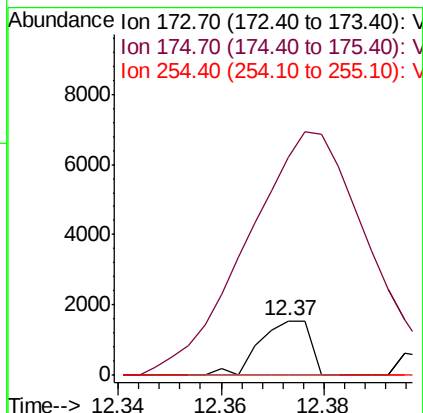
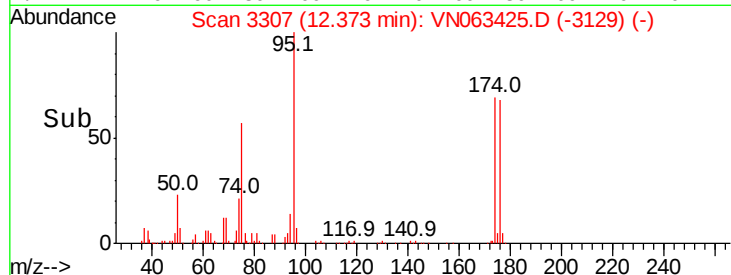
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

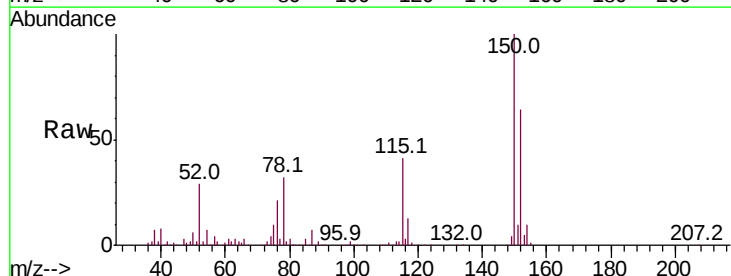
Tgt Ion:152 Resp: 176808

Ion Ratio Lower Upper

152 100

115 63.5 32.2 96.6

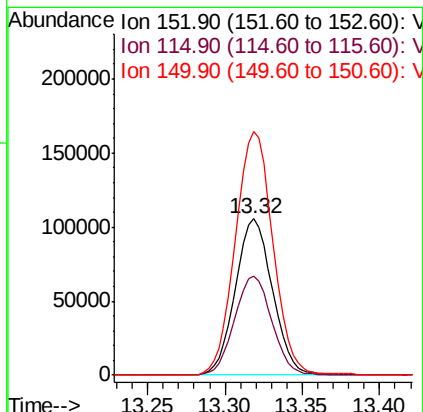
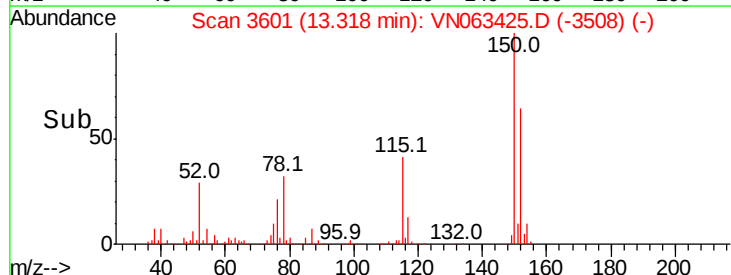
150 157.5 0.0 343.4

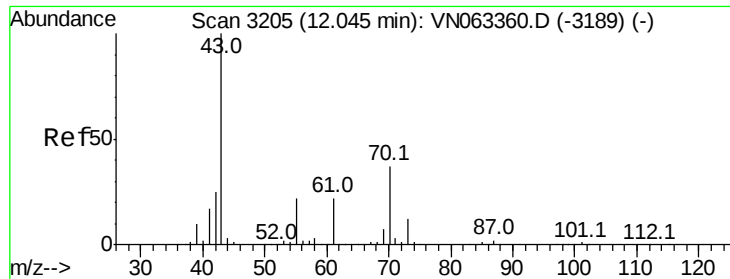


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 0.395 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(B-0)

Tot Ion: 43 Resp: 2649

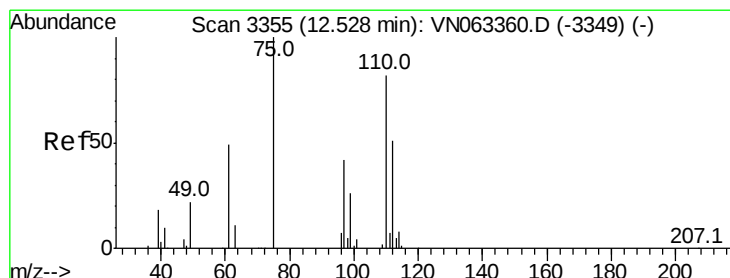
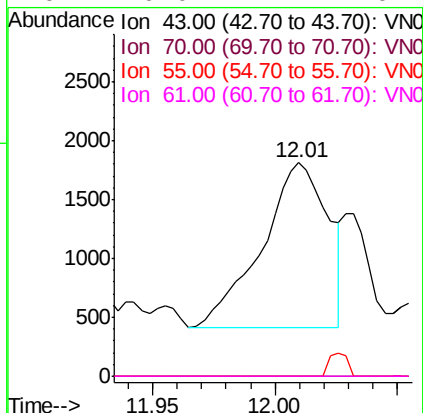
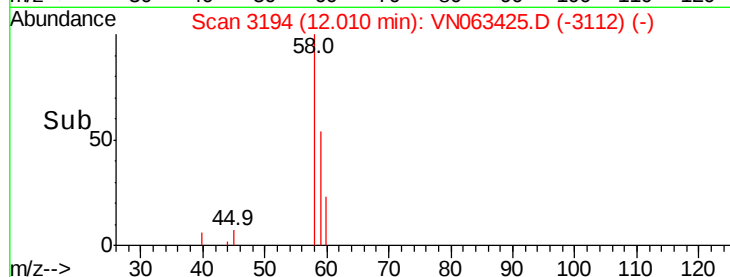
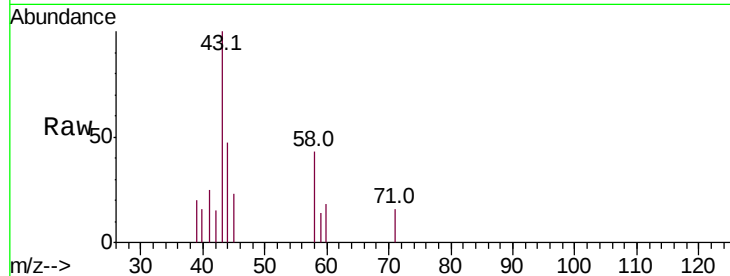
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 4.0 17.7 26.5#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 27.399 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063425.D

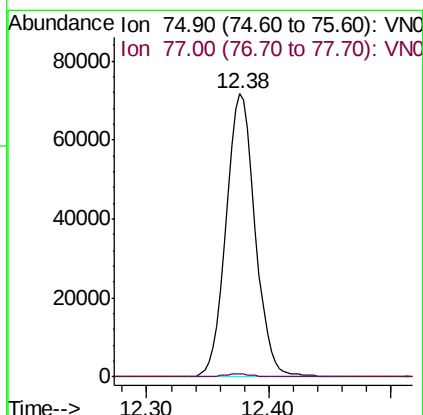
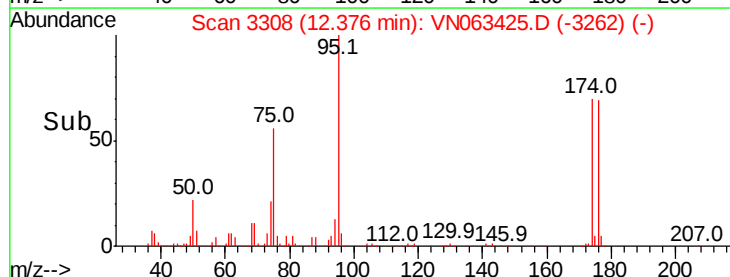
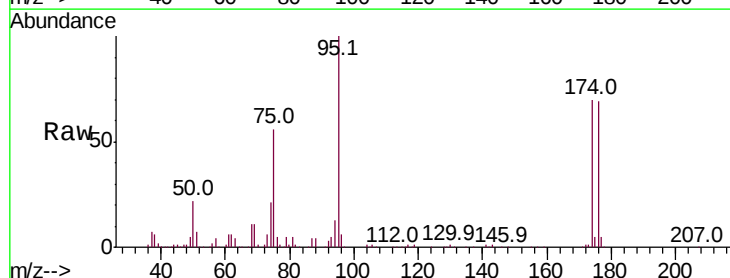
Acq: 17 Sep 2020 17:37

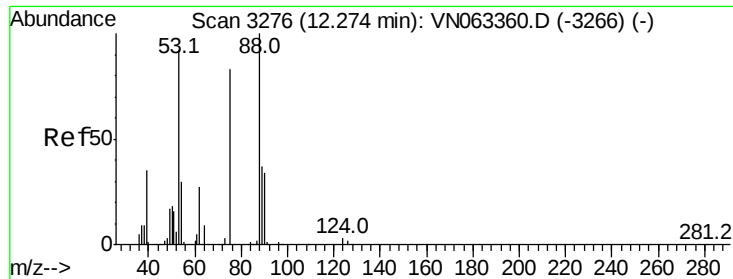
Tgt Ion: 75 Resp: 119903

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 75.117 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063425.D

Acq: 17 Sep 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-5W-(B-0)

Tot Ion: 75 Resp: 119903

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

