

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091820\
 Data File : VN063467.D
 Acq On : 18 Sep 2020 19:01
 Operator : JC/MD
 Sample : L3871-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-05-091720

Quant Time: Sep 21 01:36:38 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	233294	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	438565	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	442438	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	190915	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	191979	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
35) Dibromofluoromethane	7.55	113	138977	45.77	ug/l	0.00
Spiked Amount			Recovery	=	91.54%	
50) Toluene-d8	10.06	98	567118	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
62) 4-Bromofluorobenzene	12.38	95	226009	54.00	ug/l	0.00
Spiked Amount			Recovery	=	108.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	733	1.332	ug/l #	72
13) Acrolein	3.57	56	111	0.544	ug/l #	1
16) Acetone	3.78	43	42718	33.470	ug/l	99
18) Methyl Acetate	4.28	43	2033	0.627	ug/l #	75
20) Methylene Chloride	4.51	84	13998	4.329	ug/l	95
25) 2-Butanone	6.79	43	1477	0.752	ug/l	94
29) Tetrahydrofuran	7.17	42	1112	0.829	ug/l #	51
31) Cyclohexane	7.63	56	6843	1.248	ug/l #	27
36) 1,1-Dichloropropene	7.62	75	22398	4.794	ug/l #	47
38) Carbon Tetrachloride	7.63	117	25676	5.383	ug/l #	17
43) Isopropyl Acetate	8.13	43	91033	11.102	ug/l	98
45) 1,2-Dichloropropane	9.23	63	2006	0.552	ug/l #	43
48) Methyl methacrylate	9.14	41	6736	1.672	ug/l #	39
51) 4-Methyl-2-Pentanone	9.95	43	11817	2.574	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	36117	6.184	ug/l #	64
56) Ethyl methacrylate	10.52	69	1455	0.293	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5759	1.003	ug/l #	42
59) 2-Hexanone	10.74	43	95565	28.736	ug/l #	53
74) N-amyl acetate	12.01	43	6503	0.898	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	124441	26.334	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	124441	72.199	ug/l #	7
95) Naphthalene	15.11	128	2484	0.204	ug/l #	86

(#) = 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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ClientSampleId :

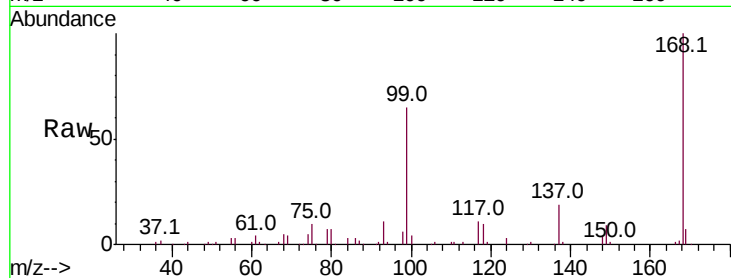
TR-05-091720

Tot Ion:168 Resp: 233294

Ion Ratio Lower Upper

168 100

99 65.1 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

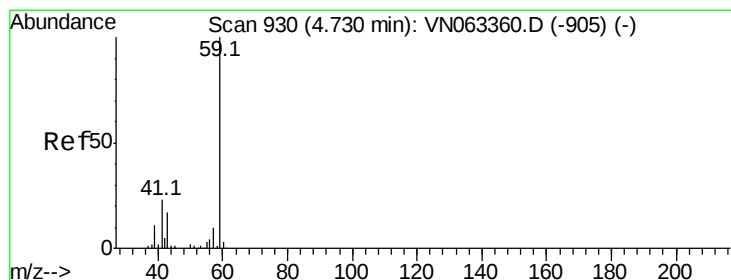
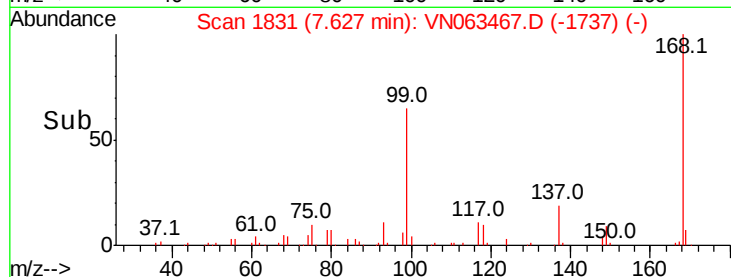
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 1.332 ug/l

RT: 4.73 min Scan# 931

Delta R.T. 0.00 min

Lab File: VN063467.D

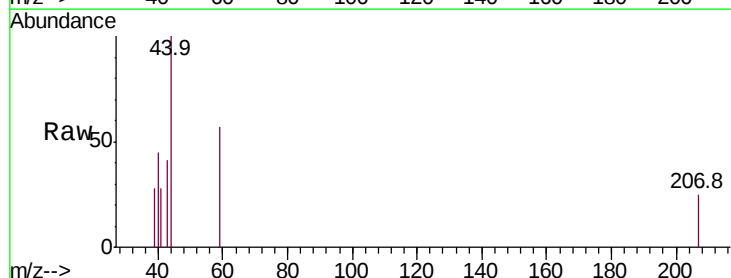
Acq: 18 Sep 2020 19:01

Tgt Ion: 59 Resp: 733

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

600

500

400

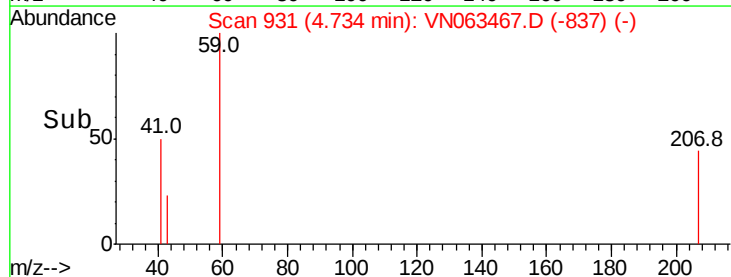
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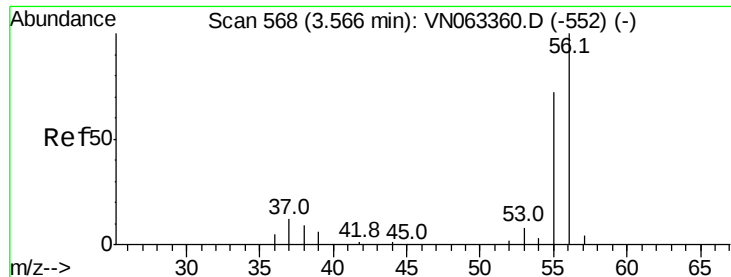
200

100

0

Time--> 4.70 4.72 4.74 4.76 4.78





#13

Acrolein

Concen: 0.544 ug/l

RT: 3.57 min Scan# 570

Delta R.T. 0.01 min

Lab File: VN063467.D

Acq: 18 Sep 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

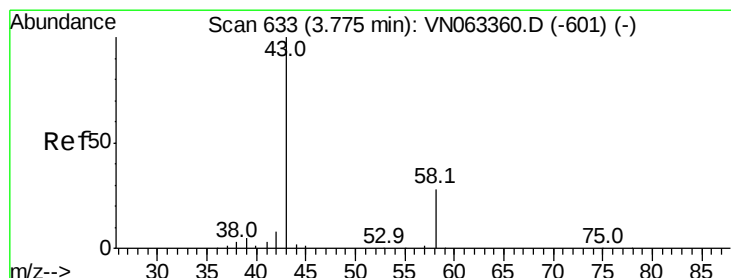
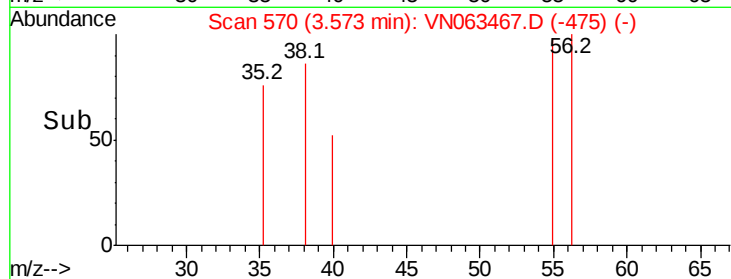
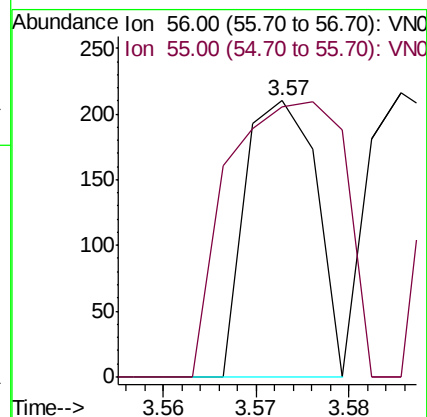
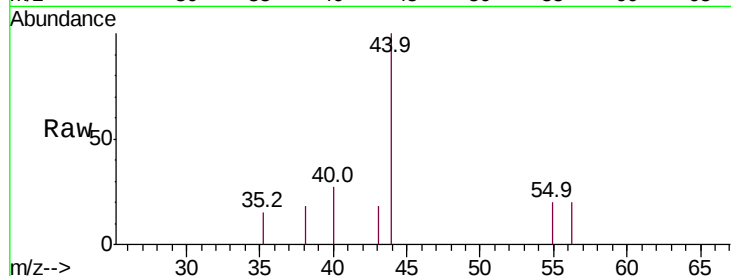
TR-05-091720

Tot Ion: 56 Resp: 111

Ion Ratio Lower Upper

56 100

55 165.8 58.2 87.2#



#16

Acetone

Concen: 33.470 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063467.D

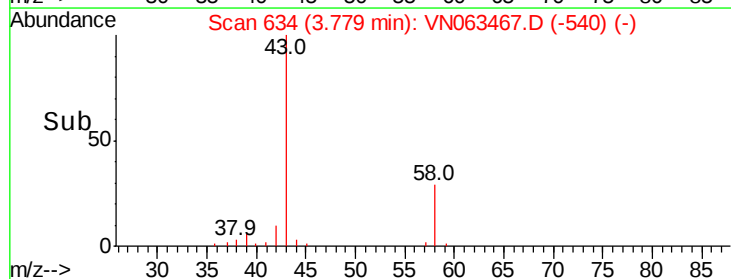
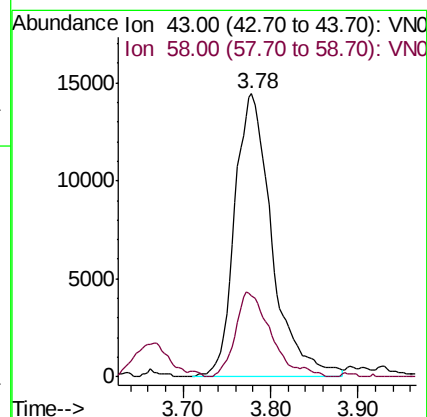
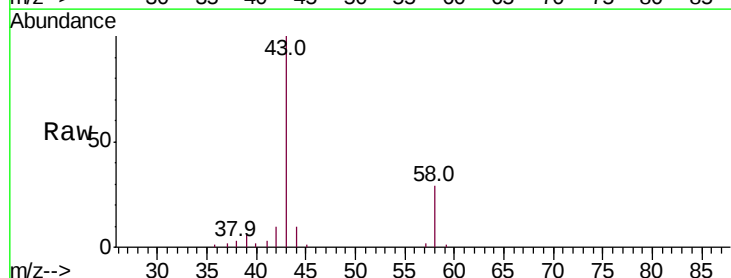
Acq: 18 Sep 2020 19:01

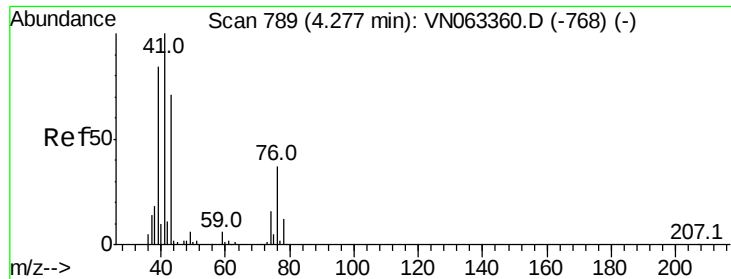
Tgt Ion: 43 Resp: 42718

Ion Ratio Lower Upper

43 100

58 27.5 22.3 33.5

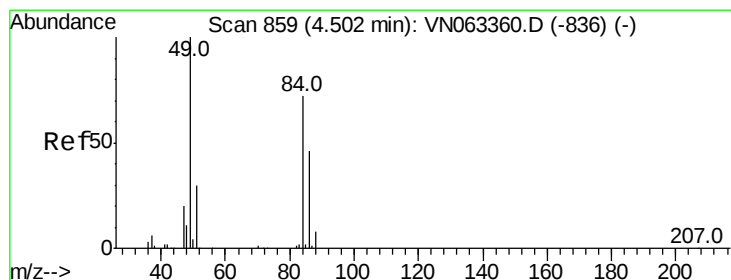
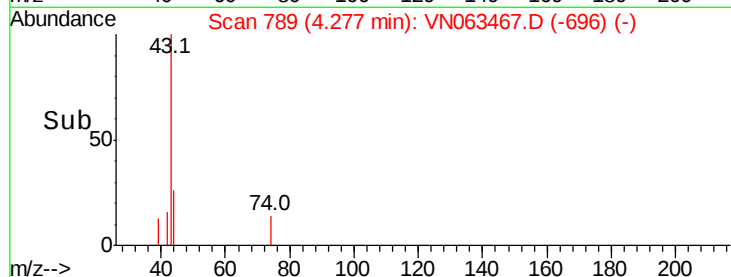
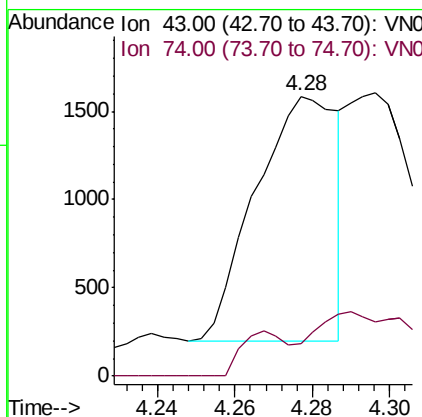
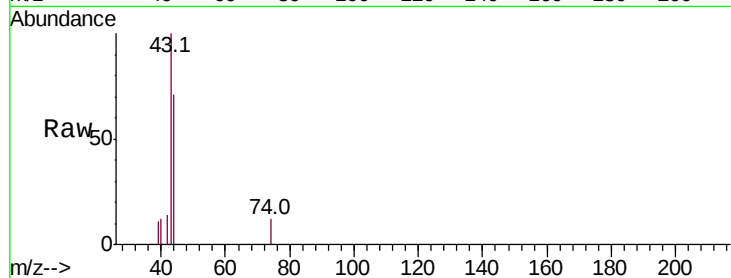




#18
Methyl Acetate
Concen: 0.627 ug/l
RT: 4.28 min Scan# 789
Delta R.T. -0.00 min
Lab File: VN063467.D
Acq: 18 Sep 2020 19:01

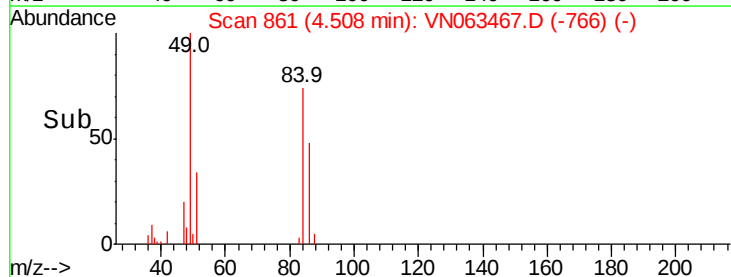
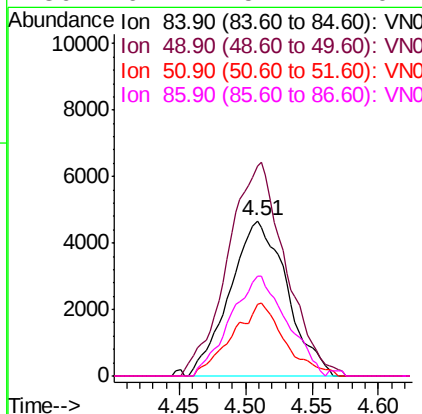
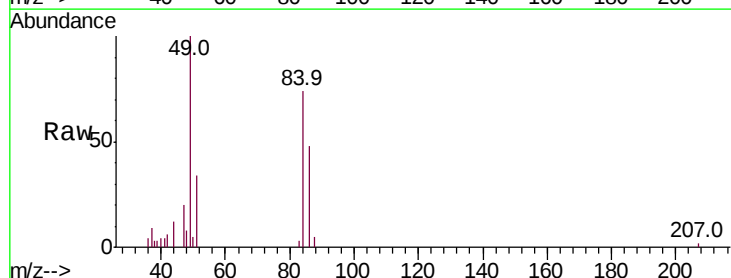
Instrument :
MSVOA_N
ClientSampleId :
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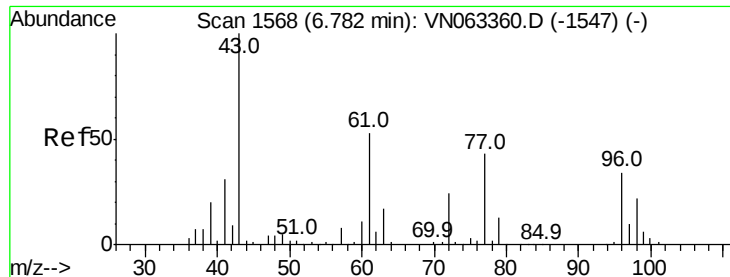
Tot Ion: 43 Resp: 2033
Ion Ratio Lower Upper
43 100
74 9.9 17.4 26.2#



#20
Methylene Chloride
Concen: 4.329 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063467.D
Acq: 18 Sep 2020 19:01

Tgt Ion: 84 Resp: 13998
Ion Ratio Lower Upper
84 100
49 130.9 110.7 166.1
51 46.0 32.9 49.3
86 64.7 51.1 76.7





#25

2-Butanone

Concen: 0.752 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN063467.D

Acq: 18 Sep 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

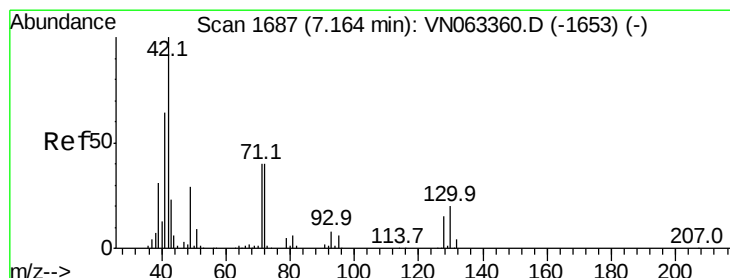
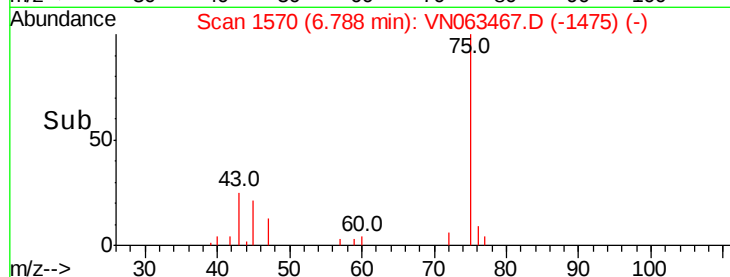
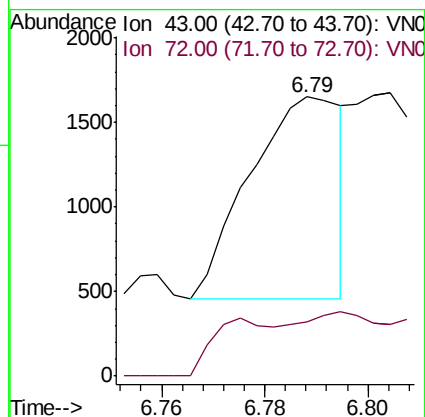
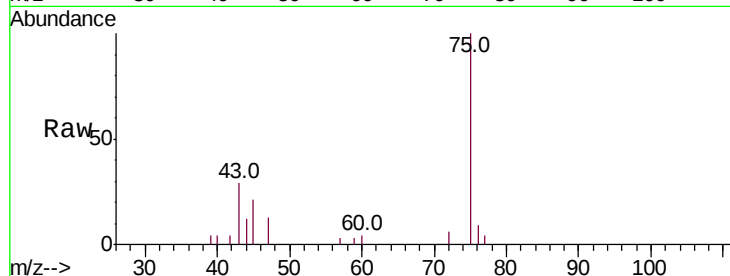
TR-05-091720

Tot Ion: 43 Resp: 1477

Ion Ratio Lower Upper

43 100

72 27.0 19.2 28.8



#29

Tetrahydrofuran

Concen: 0.829 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063467.D

Acq: 18 Sep 2020 19:01

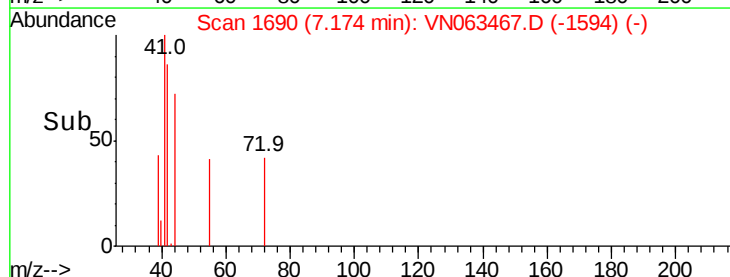
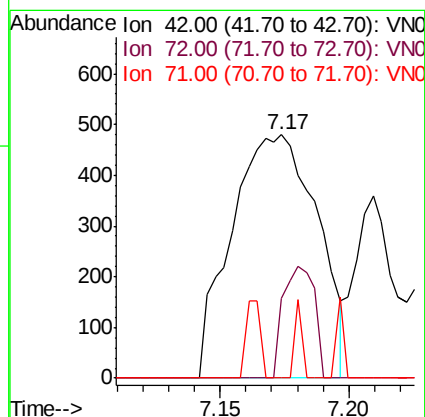
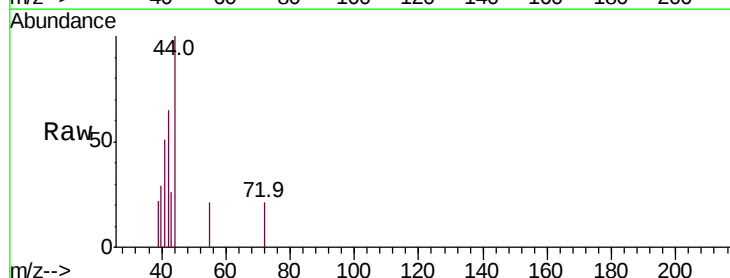
Tgt Ion: 42 Resp: 1112

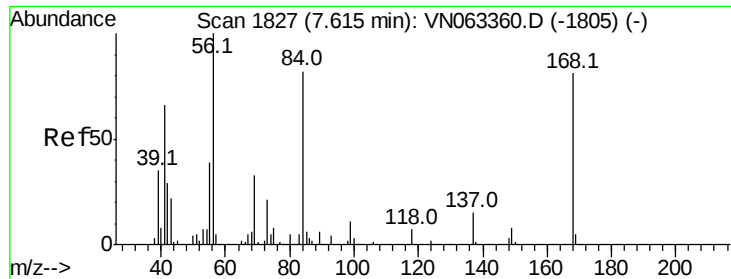
Ion Ratio Lower Upper

42 100

72 16.6 32.1 48.1#

71 2.7 31.2 46.8#

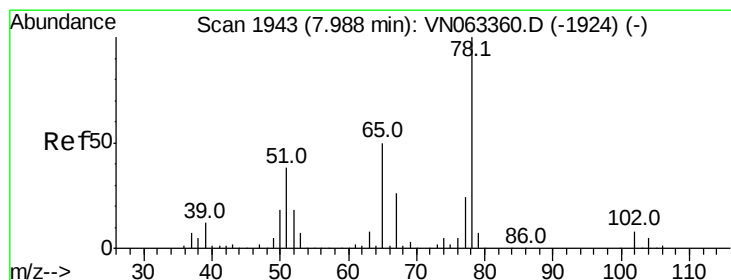
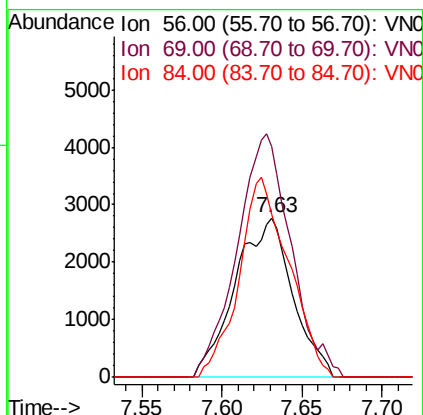
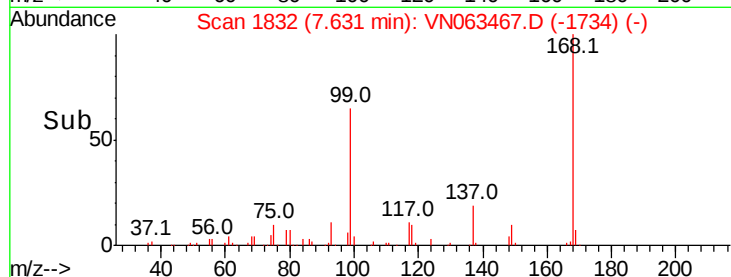
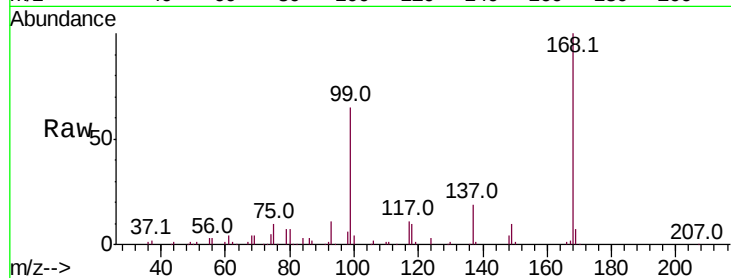




#31
Cyclohexane
Concen: 1.248 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN063467.D
Acq: 18 Sep 2020 19:01

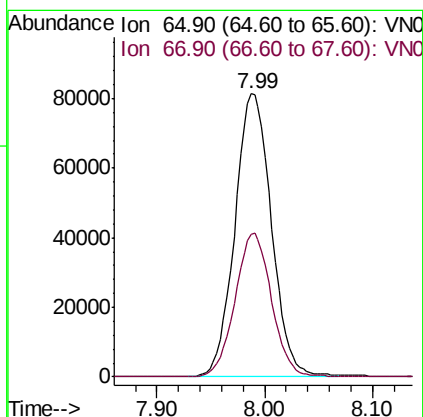
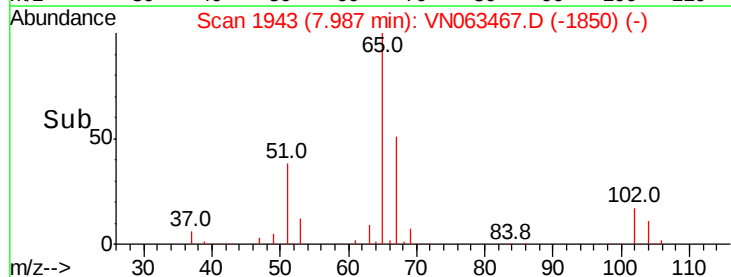
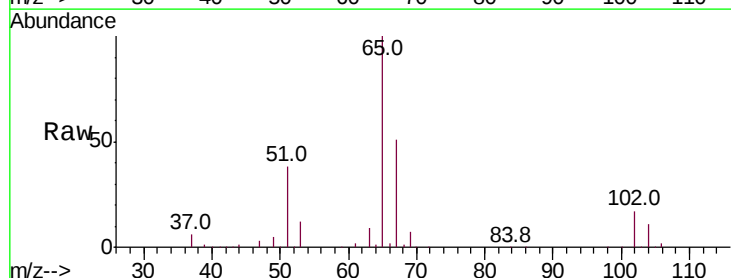
Instrument :
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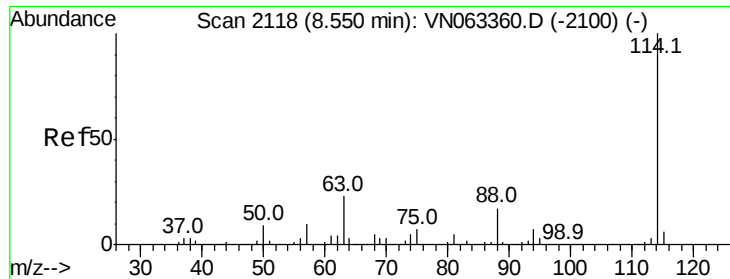
Tot Ion: 56 Resp: 6843
Ion Ratio Lower Upper
56 100
69 144.3 26.1 39.1#
84 102.1 65.4 98.2#



#33
1,2-Dichloroethane-d4
Concen: 48.342 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063467.D
Acq: 18 Sep 2020 19:01

Tgt Ion: 65 Resp: 191979
Ion Ratio Lower Upper
65 100
67 50.8 0.0 104.2

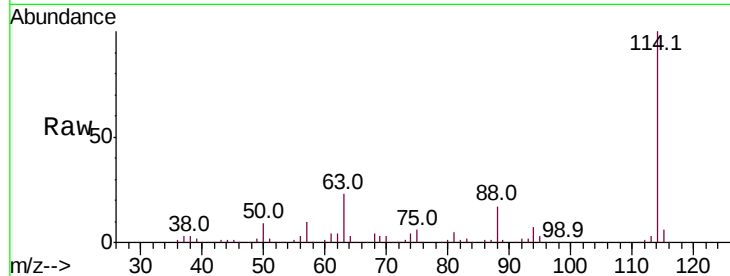




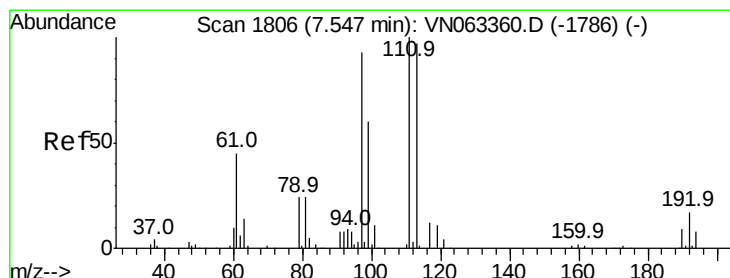
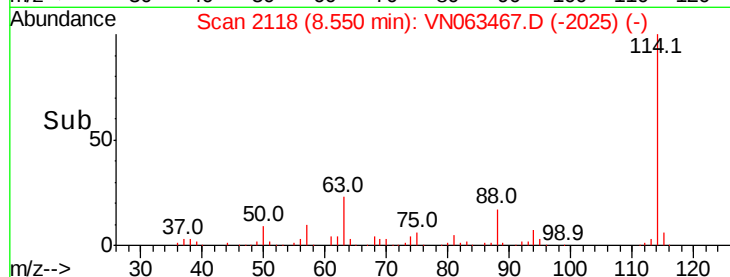
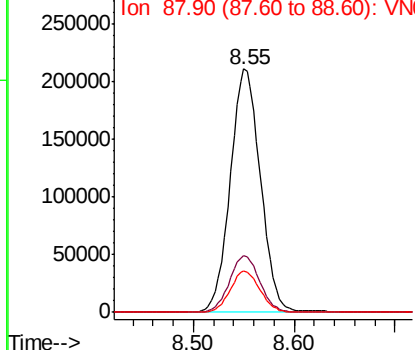
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063467.D
 Acq: 18 Sep 2020 19:01

Instrument :
 MSVOA_N
 ClientSampled :
 TR-05-091720

Tot Ion:	114	Resp:	438565
Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	46.4
88	17.0	0.0	33.2

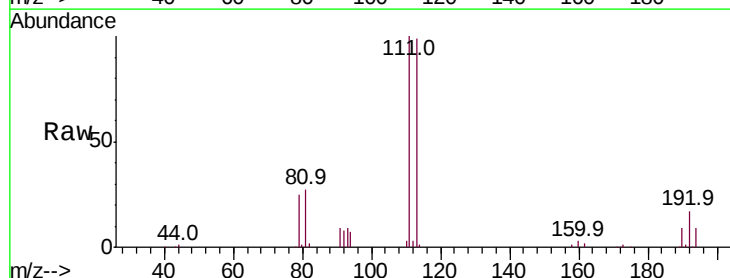


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

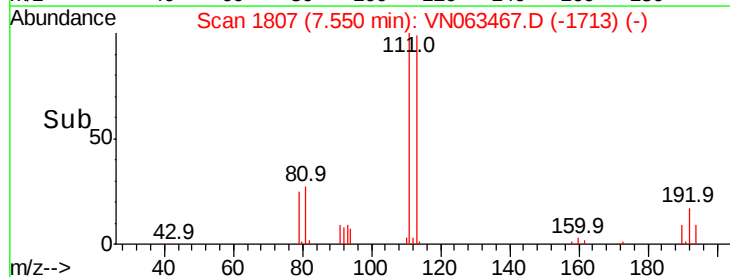
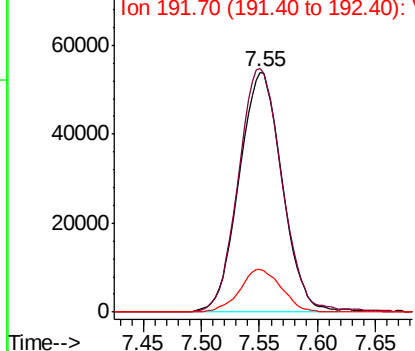


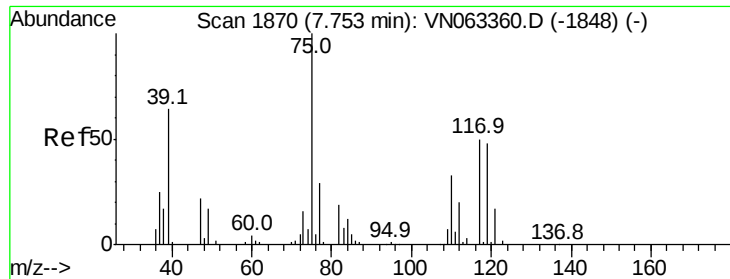
#35
 Dibromofluoromethane
 Concen: 45.775 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063467.D
 Acq: 18 Sep 2020 19:01

Tgt Ion:	113	Resp:	138977
Ion	Ratio	Lower	Upper
113	100		
111	103.5	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

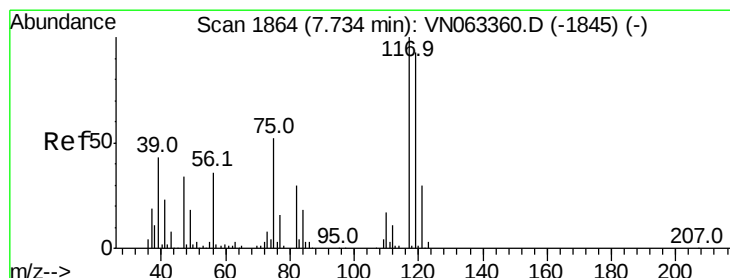
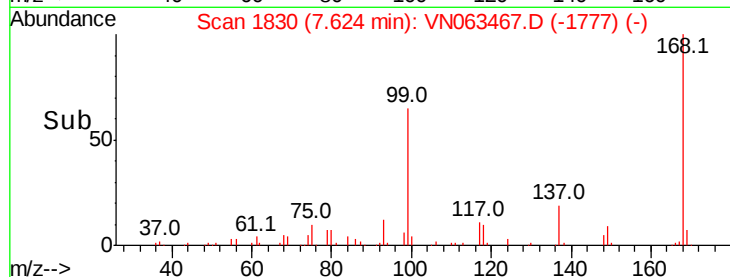
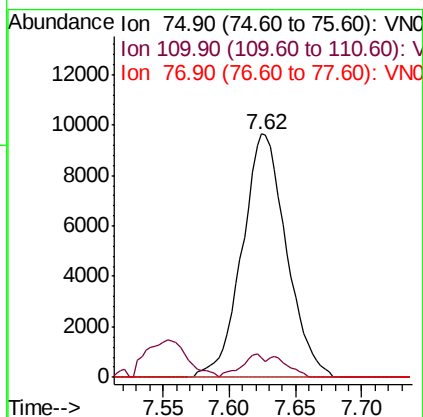
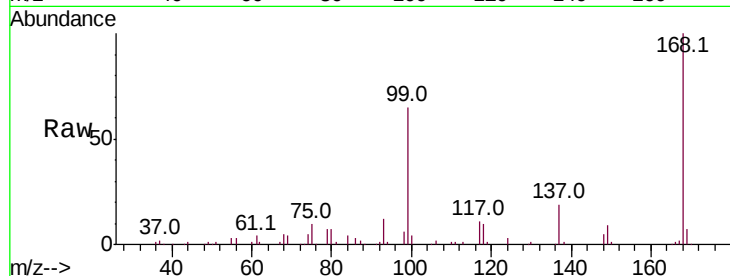




#36
 1,1-Dichloropropene
 Concen: 4.794 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063467.D
 Acq: 18 Sep 2020 19:01

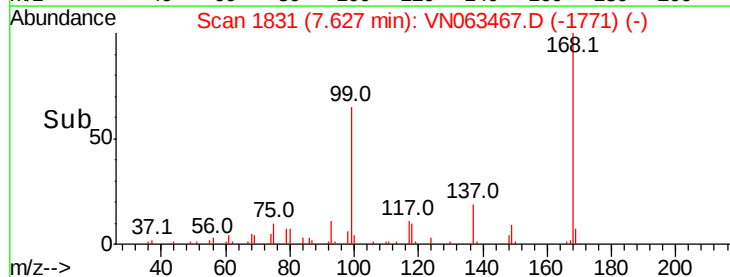
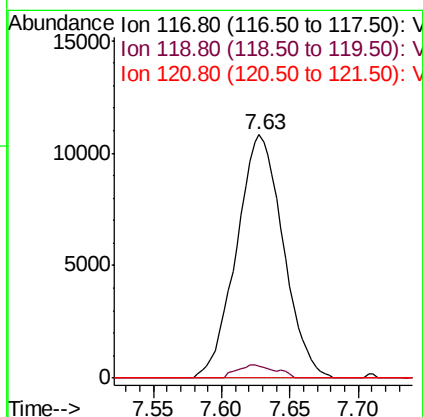
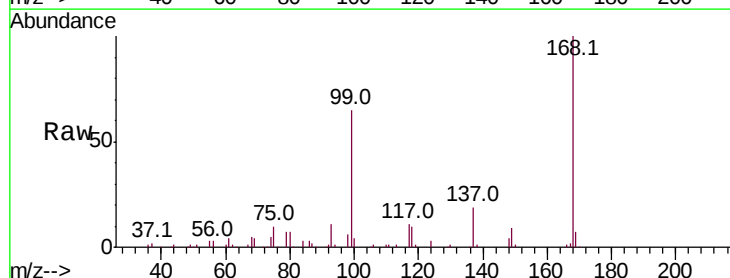
Instrument :
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 TR-05-091720

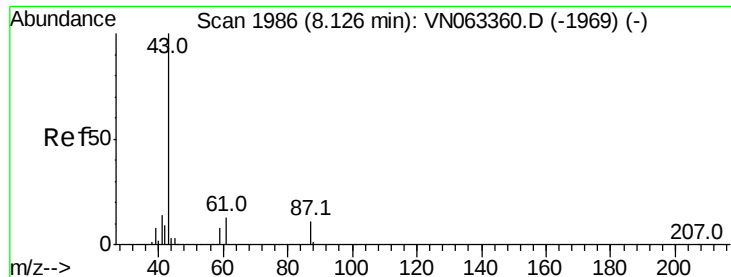
Tot Ion	Ratio	Lower	Upper
75	100		
110	4.9	16.5	49.5#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.383 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063467.D
 Acq: 18 Sep 2020 19:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	74.5	111.7#
121	0.0	24.1	36.1#





#43

Isopropyl Acetate

Concen: 11.102 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063467.D

Acq: 18 Sep 2020 19:01

Instrument :

MSVOA_N

ClientSampled :

TR-05-091720

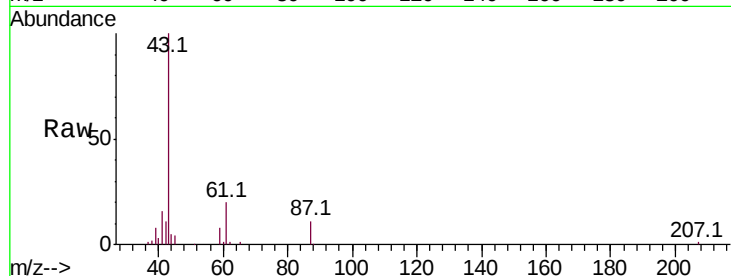
Tot Ion: 43 Resp: 91033

Ion Ratio Lower Upper

43 100

61 18.8 14.2 21.2

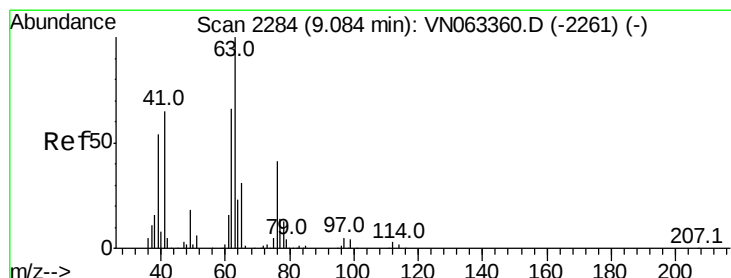
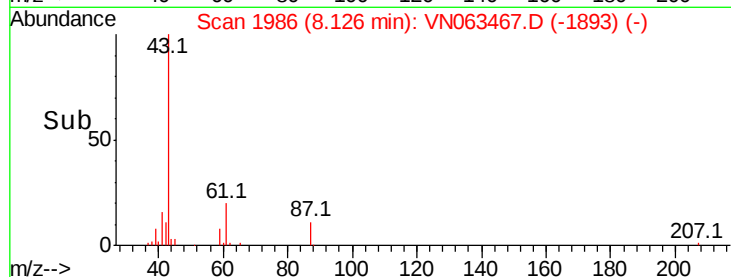
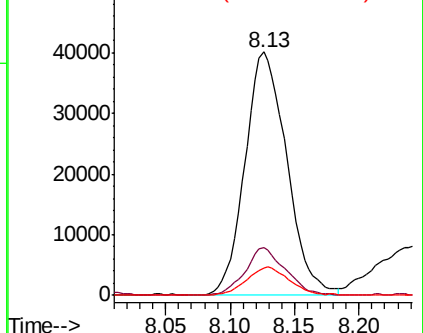
87 11.8 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063360.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063360.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.552 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN063467.D

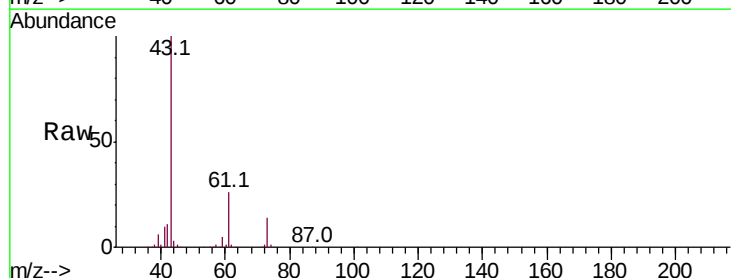
Acq: 18 Sep 2020 19:01

Tgt Ion: 63 Resp: 2006

Ion Ratio Lower Upper

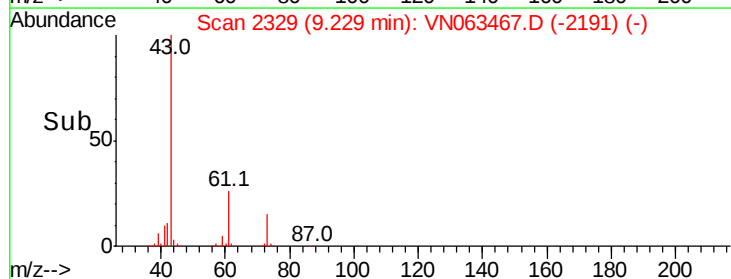
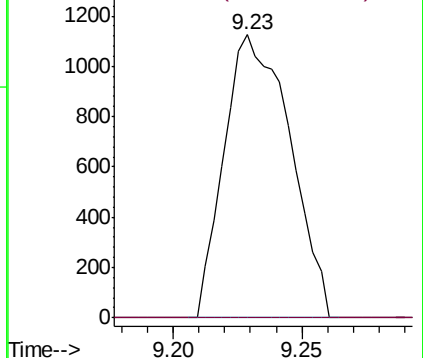
63 100

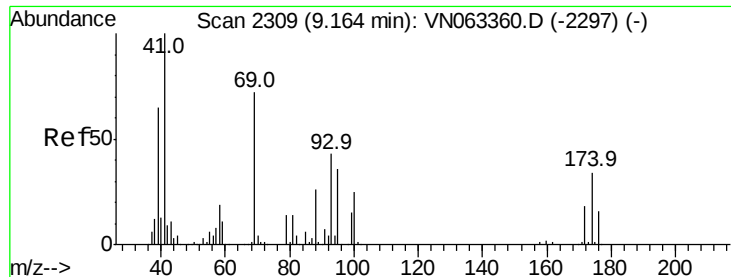
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN063360.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN063360.D (-2261) (-)

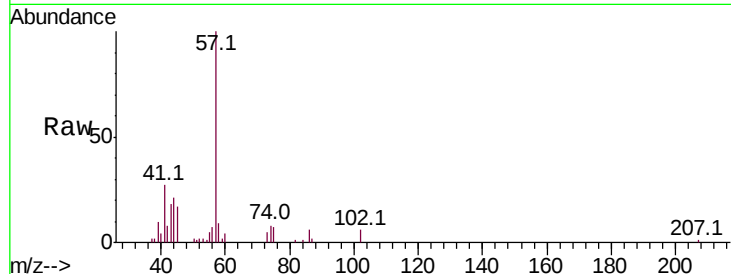




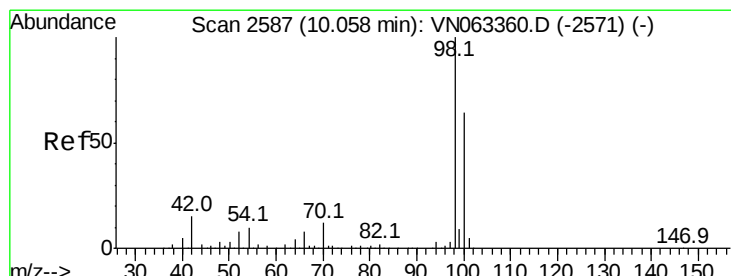
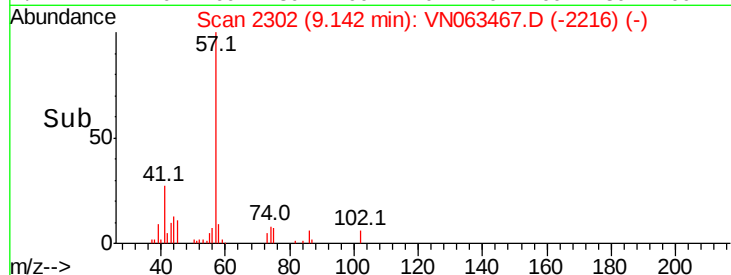
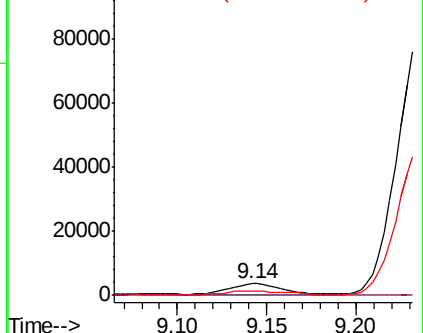
#48
Methvl methacrylate
Concen: 1.672 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN063467.D
Acq: 18 Sep 2020 19:01

Instrument :
MSVOA_N
ClientSampleId :
TR-05-091720

Tot Ion: 41 Resp: 6736
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 42.0 52.9 79.3#

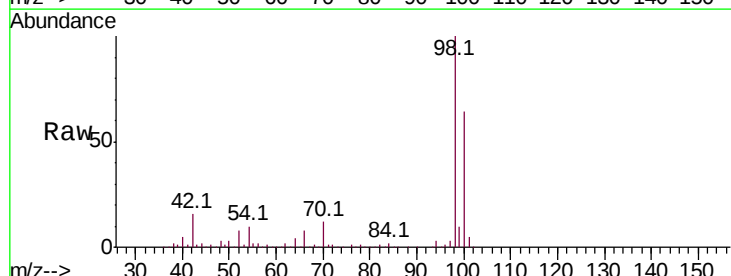


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

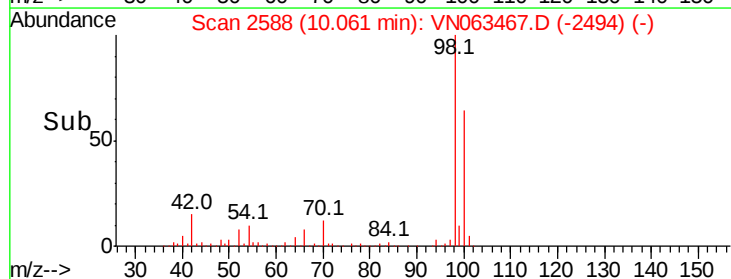
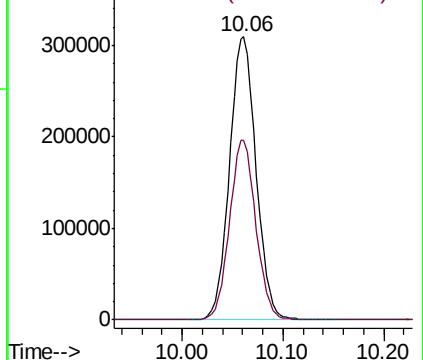


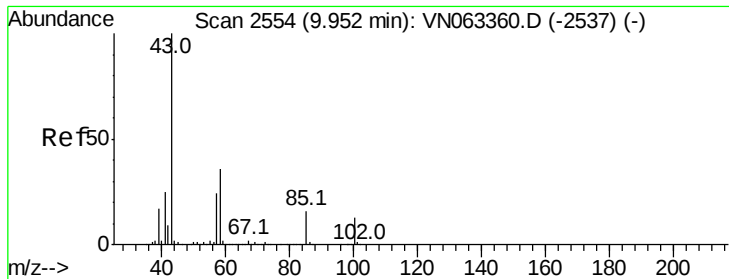
#50
Toluene-d8
Concen: 49.676 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063467.D
Acq: 18 Sep 2020 19:01

Tgt Ion: 98 Resp: 567118
Ion Ratio Lower Upper
98 100
100 63.0 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: 2.574 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063467.D

Acq: 18 Sep 2020 19:01

Instrument :

MSVOA_N

ClientSampled :

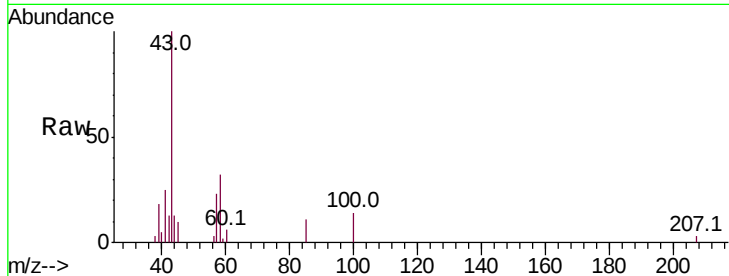
TR-05-091720

Tot Ion: 43 Resp: 11817

Ion Ratio Lower Upper

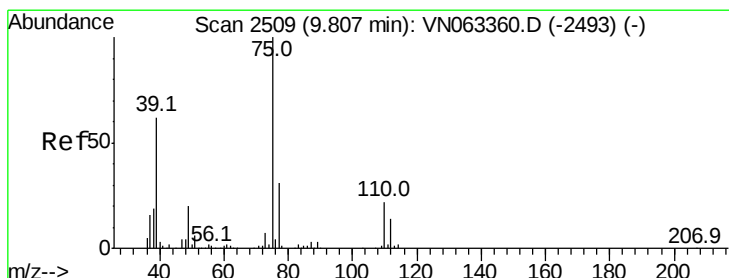
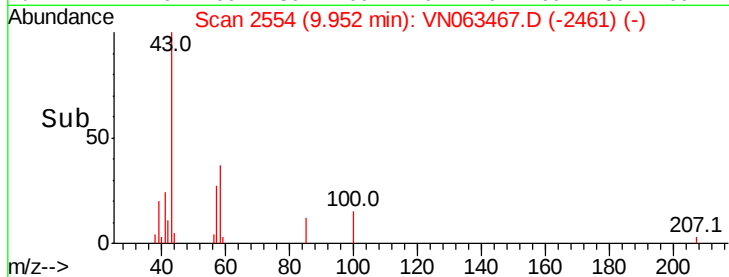
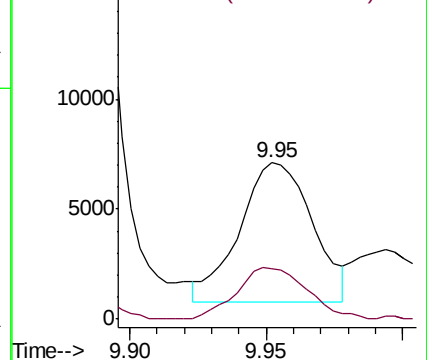
43 100

58 35.6 29.0 43.6



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

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



#54

cis-1,3-Dichloropropene

Concen: 6.184 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN063467.D

Acq: 18 Sep 2020 19:01

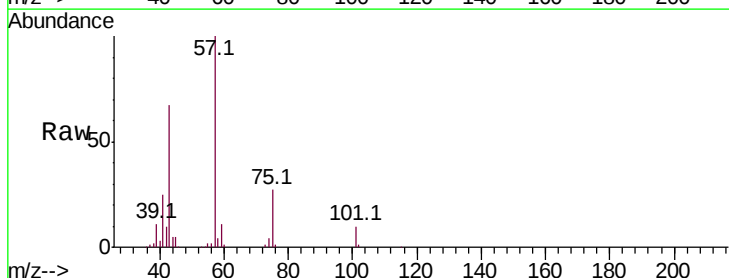
Tgt Ion: 75 Resp: 36117

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

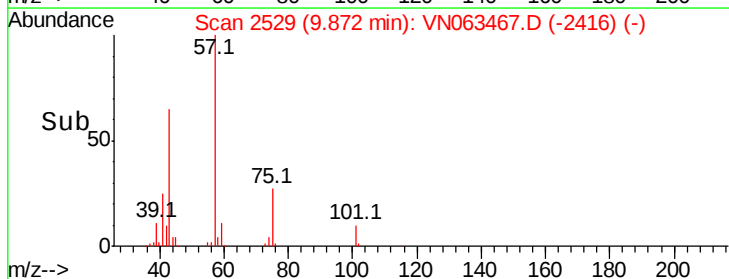
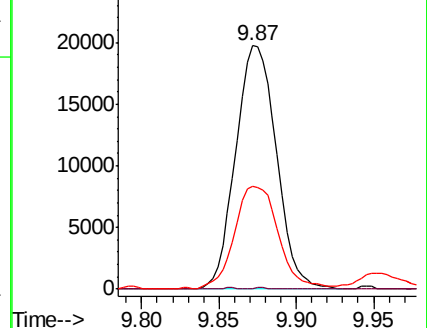
39 42.1 49.8 74.8#

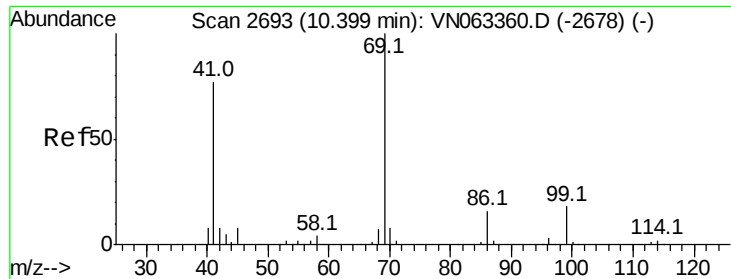


Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)

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

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





#56

Ethyl methacrylate

Concen: 0.293 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063467.D

Acq: 18 Sep 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

TR-05-091720

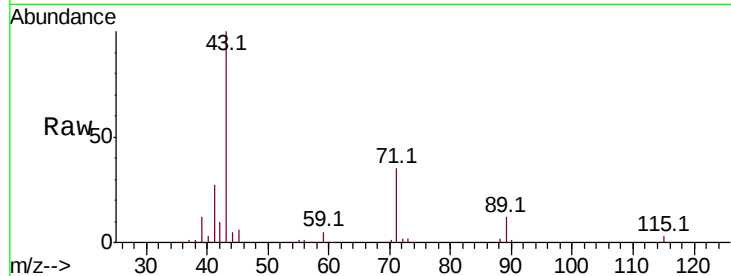
Tot Ion: 69 Resp: 1455

Ion Ratio Lower Upper

69 100

41 6187.1 61.0 91.6#

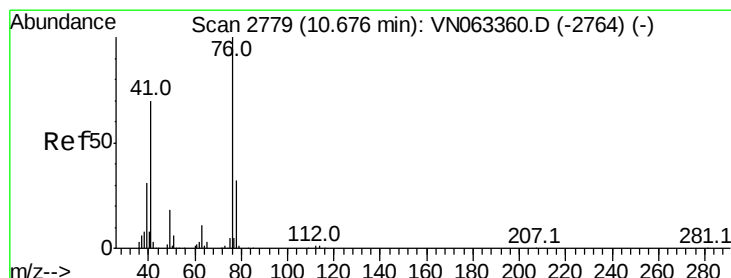
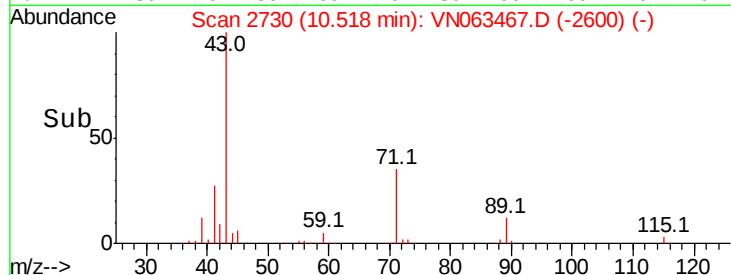
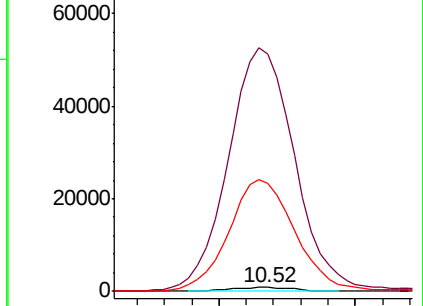
39 2822.4 39.2 58.8#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.003 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063467.D

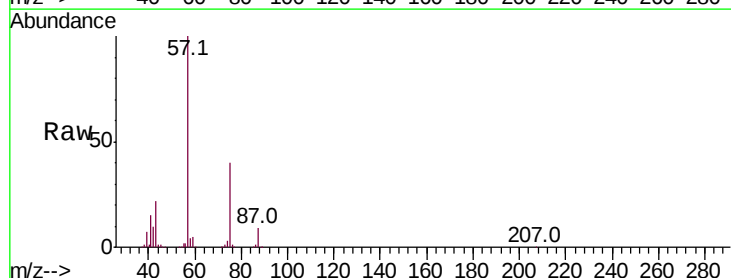
Acq: 18 Sep 2020 19:01

Tgt Ion: 76 Resp: 5759

Ion Ratio Lower Upper

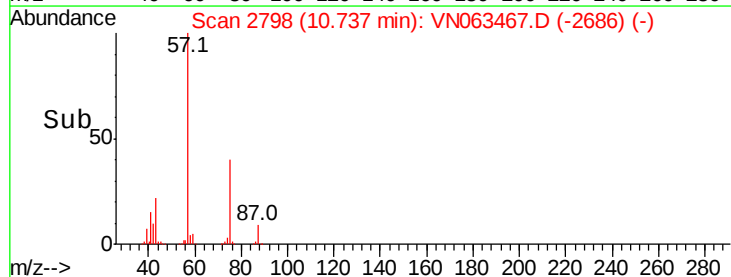
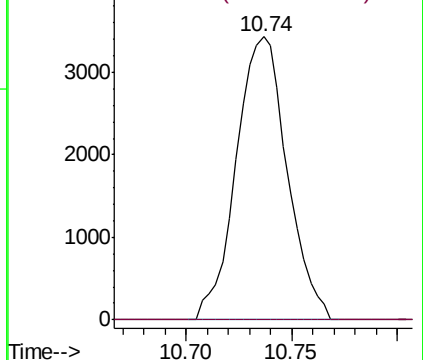
76 100

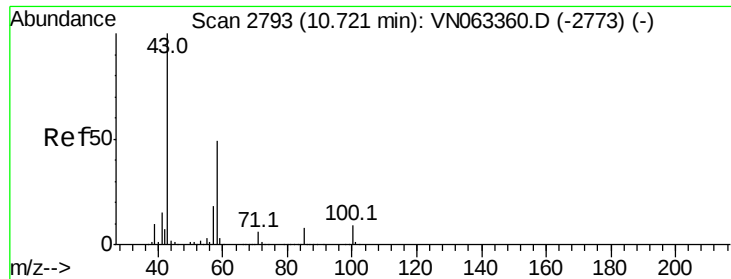
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 28.736 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063467.D

Acq: 18 Sep 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

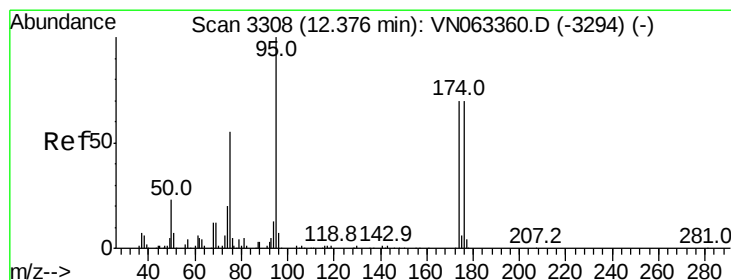
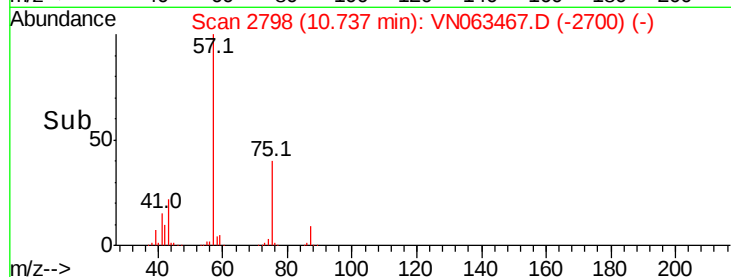
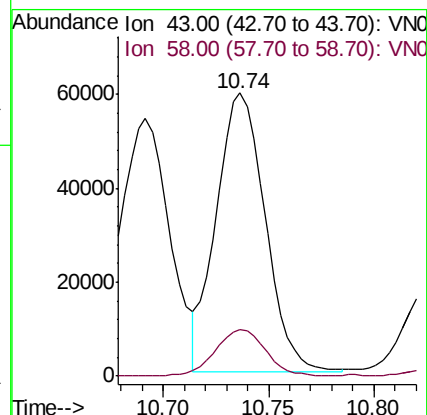
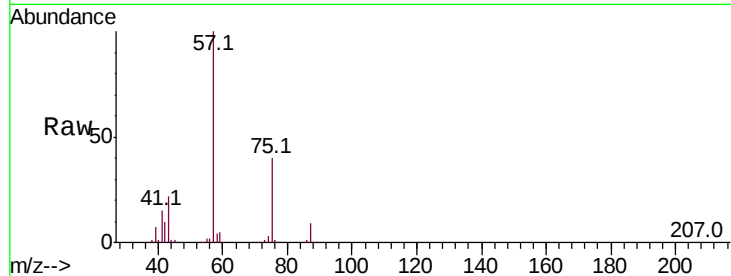
TR-05-091720

Tot Ion: 43 Resp: 95565

Ion Ratio Lower Upper

43 100

58 17.2 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 54.005 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063467.D

Acq: 18 Sep 2020 19:01

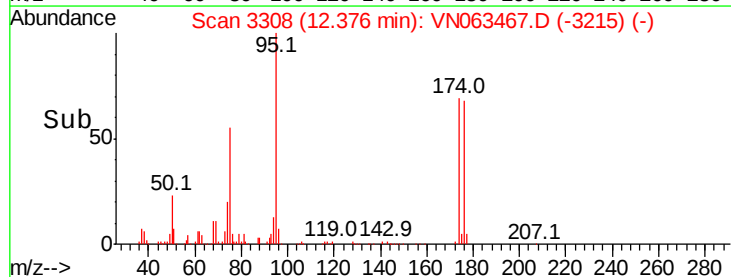
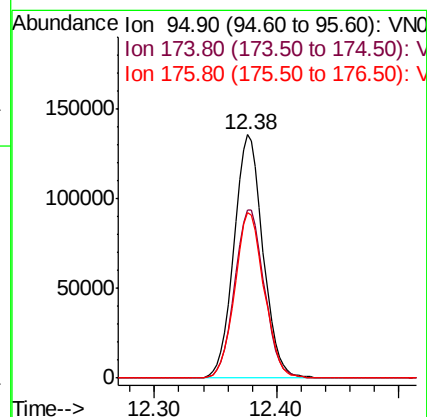
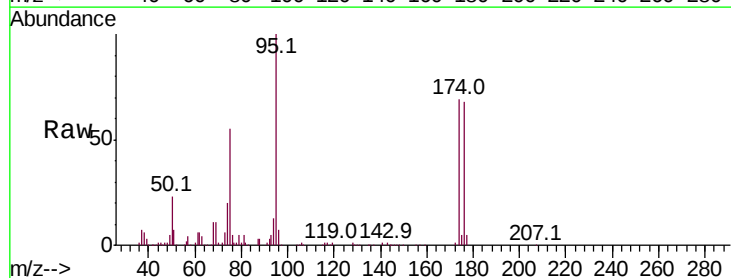
Tgt Ion: 95 Resp: 226009

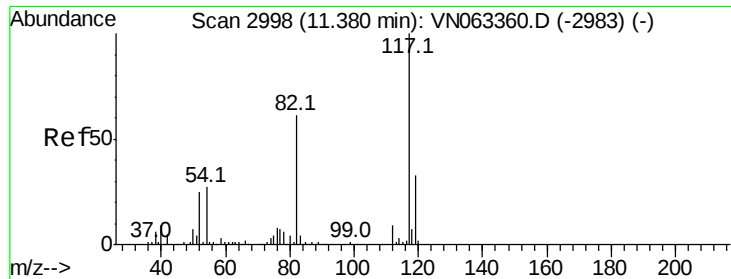
Ion Ratio Lower Upper

95 100

174 70.4 0.0 140.8

176 68.6 0.0 137.6

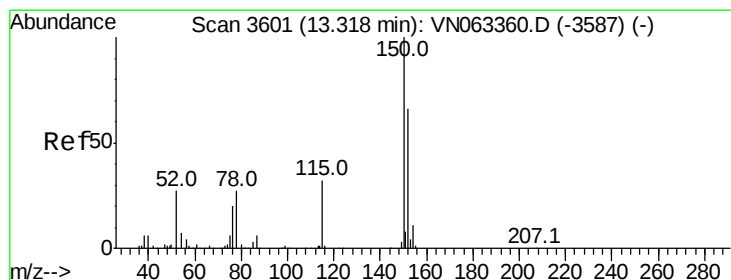
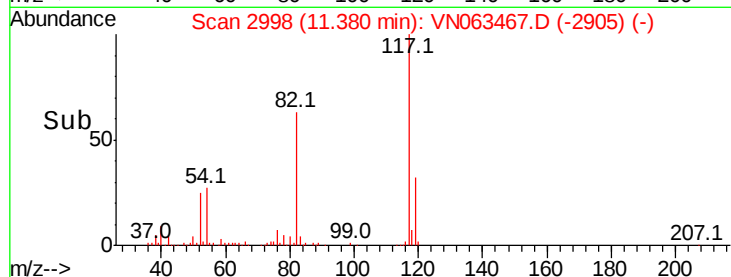
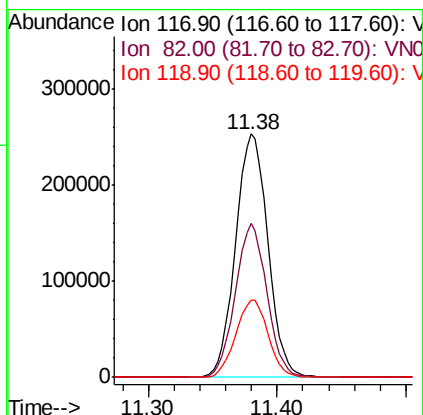
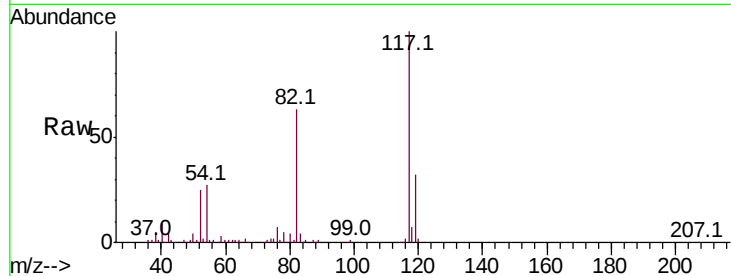




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063467.D
Acq: 18 Sep 2020 19:01

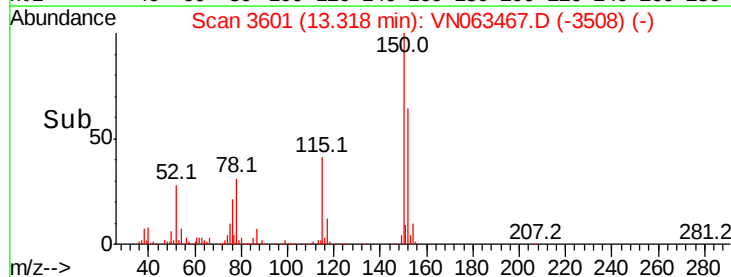
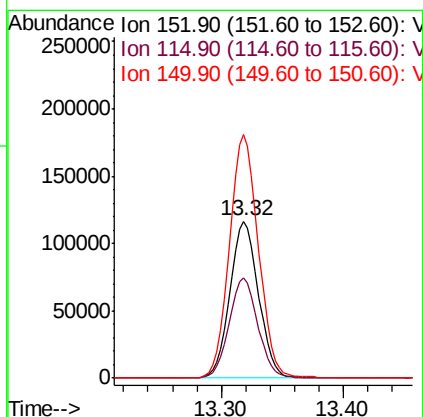
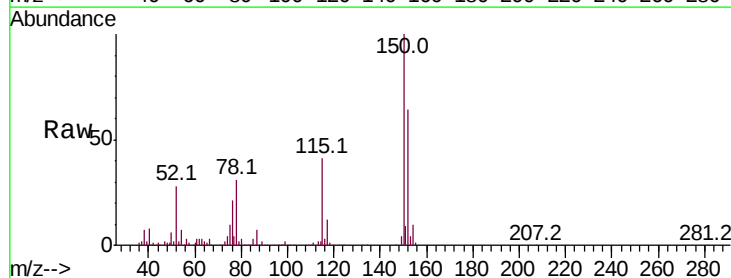
Instrument :
MSVOA_N
ClientSampleId :
TR-05-091720

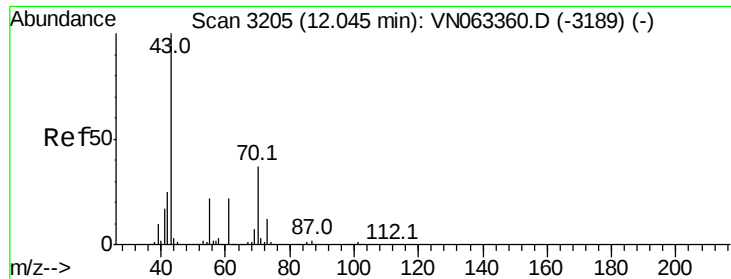
Tot Ion:117 Resp: 442438
Ion Ratio Lower Upper
117 100
82 63.0 49.2 73.8
119 31.8 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063467.D
Acq: 18 Sep 2020 19:01

Tgt Ion:152 Resp: 190915
Ion Ratio Lower Upper
152 100
115 64.3 32.2 96.6
150 156.6 0.0 343.4





#74

N-amvl acetate

Concen: 0.898 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063467.D

Acq: 18 Sep 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

TR-05-091720

Tot Ion: 43 Resp: 6503

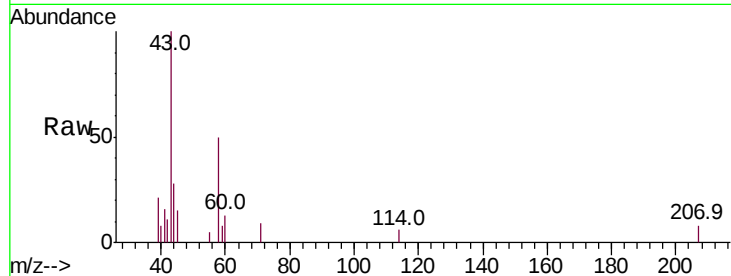
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 1.9 17.7 26.5#

61 0.0 17.4 26.2#

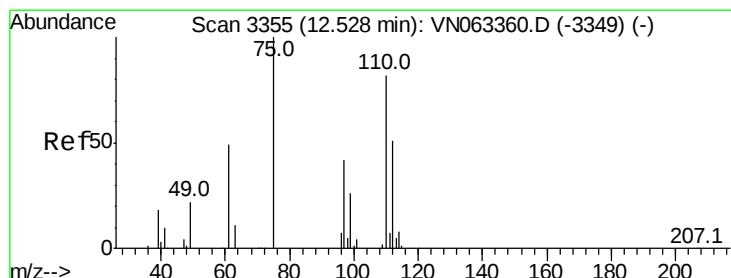
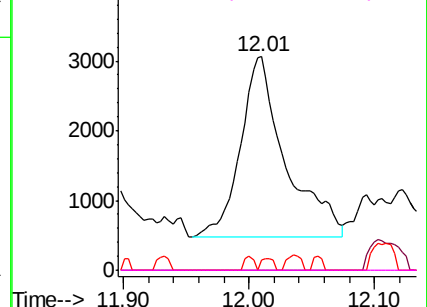
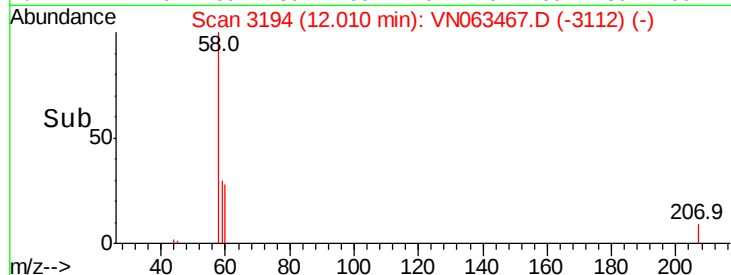


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.334 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063467.D

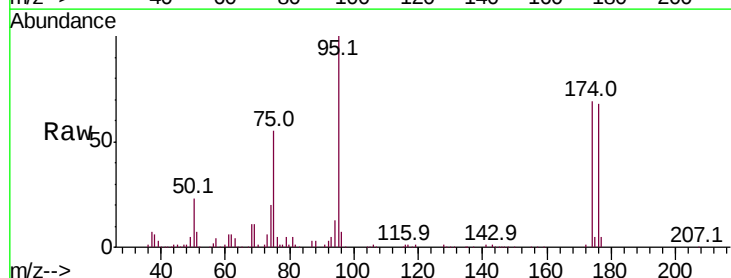
Acq: 18 Sep 2020 19:01

Tgt Ion: 75 Resp: 124441

Ion Ratio Lower Upper

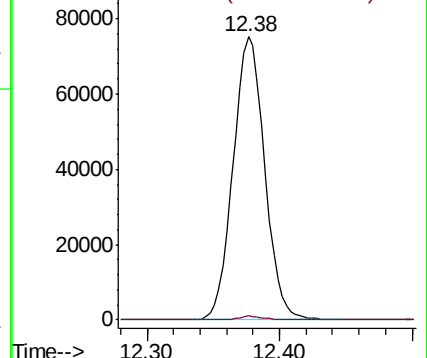
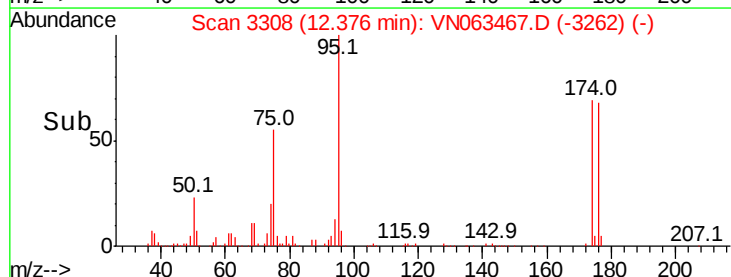
75 100

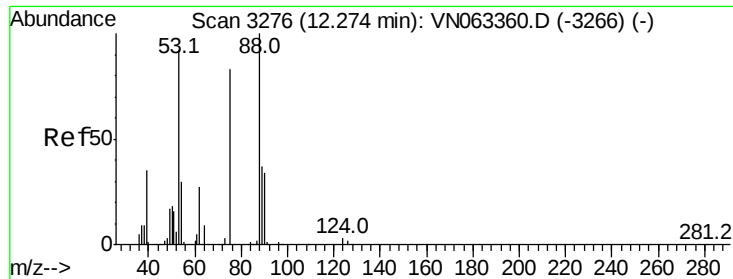
77 1.1 0.0 0.0#



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: 72.199 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063467.D

Acq: 18 Sep 2020 19:01

Instrument :

MSVOA_N

ClientSampled :

TR-05-091720

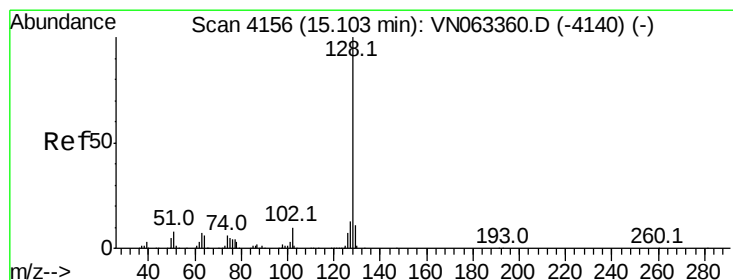
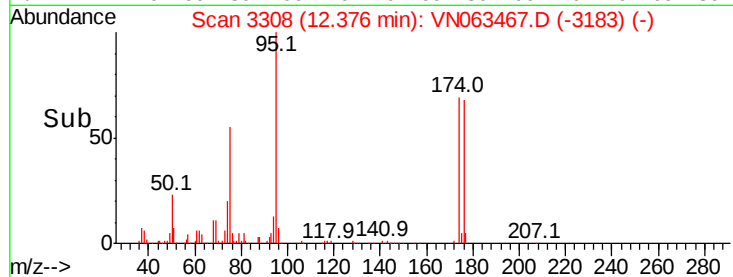
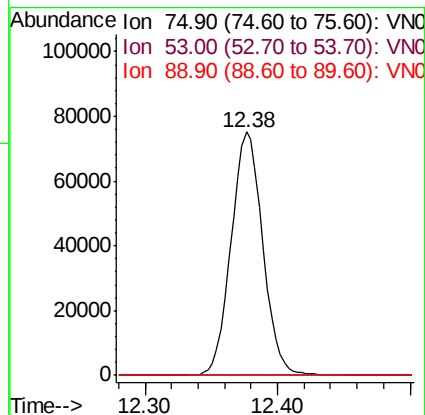
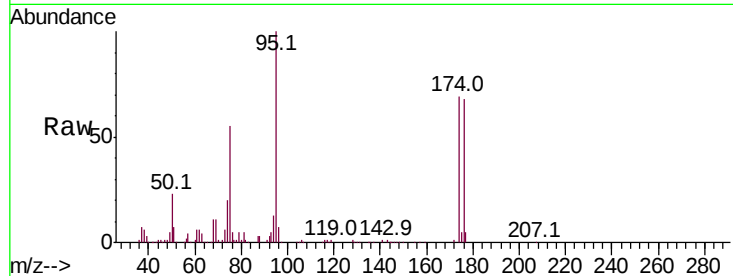
Tot Ion: 75 Resp: 124441

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



#95

Naphthalene

Concen: 0.204 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN063467.D

Acq: 18 Sep 2020 19:01

Tgt Ion: 128 Resp: 2484

Ion Ratio Lower Upper

128 100

127 13.9 10.6 15.8

129 0.0 8.8 13.2#

