

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063659.D
 Acq On : 25 Sep 2020 4:37
 Operator : JC/MD
 Sample : L3870-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-092220

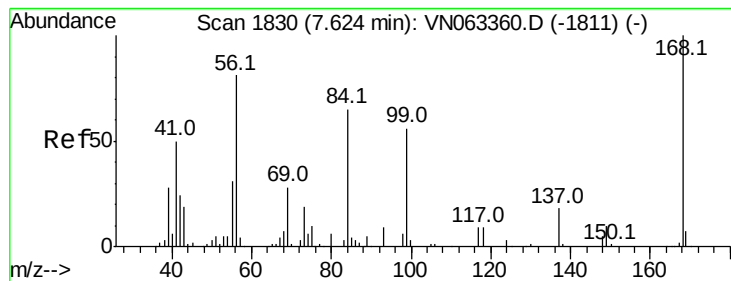
Quant Time: Sep 25 05:38:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	199980	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	393481	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	403078	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	163356	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	177346	52.10	ug/l	0.00
Spiked Amount			Recovery	=	104.20%	
35) Dibromofluoromethane	7.55	113	126957	46.61	ug/l	0.00
Spiked Amount			Recovery	=	93.22%	
50) Toluene-d8	10.06	98	511005	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	12.38	95	192014	51.14	ug/l	0.00
Spiked Amount			Recovery	=	102.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	188	0.399	ug/l #	72
13) Acrolein	3.48	56	62	0.355	ug/l #	13
16) Acetone	3.78	43	26193	23.941	ug/l	99
18) Methyl Acetate	4.29	43	5571	2.006	ug/l #	66
20) Methylene Chloride	4.51	84	14490	5.227	ug/l	88
25) 2-Butanone	6.80	43	4884	2.903	ug/l #	88
26) 2,2-Dichloropropane	6.78	77	1364	0.312	ug/l #	55
29) Tetrahydrofuran	7.18	42	1363	1.186	ug/l #	75
31) Cyclohexane	7.63	56	6366	1.354	ug/l #	44
36) 1,1-Dichloropropene	7.62	75	19685	4.696	ug/l #	51
38) Carbon Tetrachloride	7.63	117	22125	5.170	ug/l #	18
43) Isopropyl Acetate	8.13	43	49497	6.728	ug/l	98
45) 1,2-Dichloropropane	9.23	63	756	0.232	ug/l #	43
48) Methyl methacrylate	9.14	41	4281	1.184	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	7401	1.797	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	24202	4.618	ug/l #	65
56) Ethyl methacrylate	10.51	69	1687	0.378	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3528	0.685	ug/l #	42
59) 2-Hexanone	10.74	43	55643	18.649	ug/l #	56
74) N-amyl acetate	12.01	43	3905	0.630	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	111349	27.539	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	111349	75.502	ug/l #	7
95) Naphthalene	15.10	128	24373	2.335	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063659.D

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MSVOA_N

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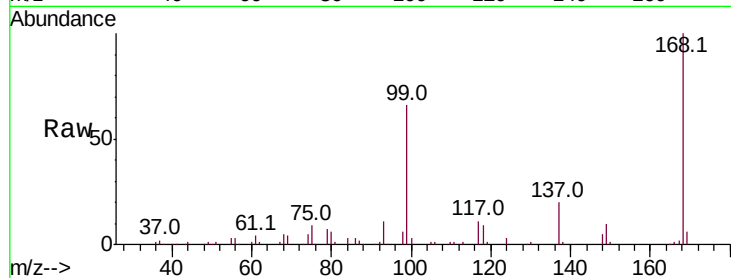
SU-02-092220

Tot Ion:168 Resp: 199980

Ion Ratio Lower Upper

168 100

99 65.8 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

80000

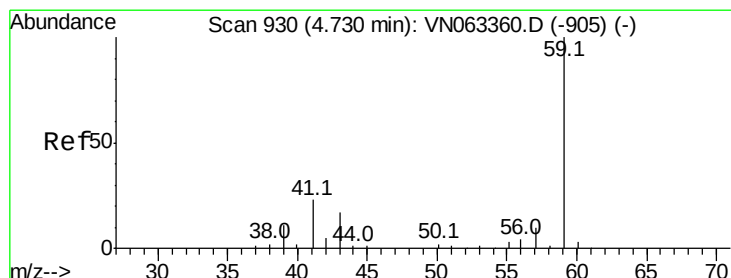
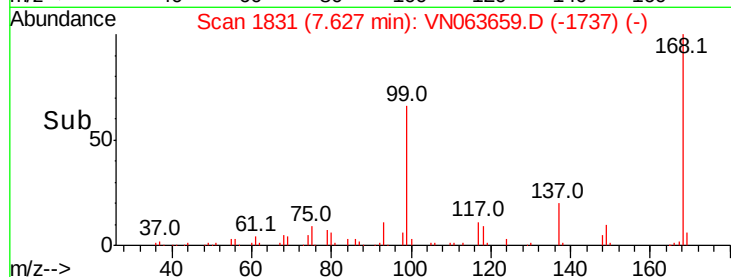
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.399 ug/l

RT: 4.73 min Scan# 931

Delta R.T. 0.00 min

Lab File: VN063659.D

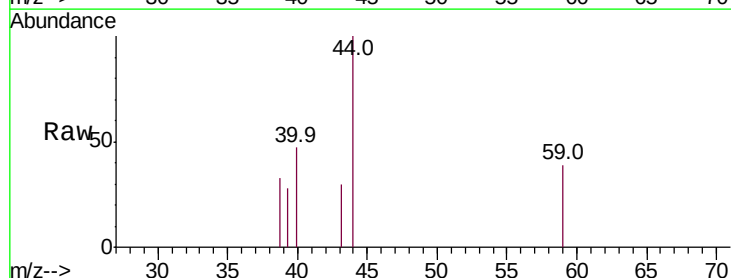
Acq: 25 Sep 2020 4:37

Tgt Ion: 59 Resp: 188

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

250

200

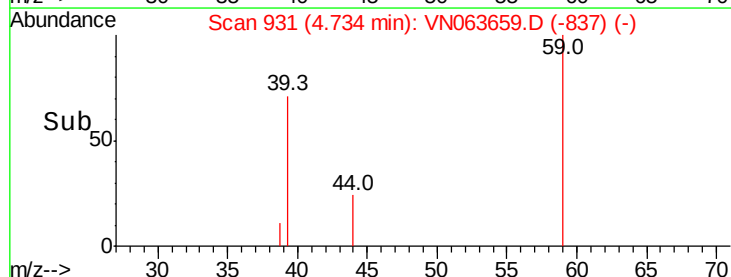
150

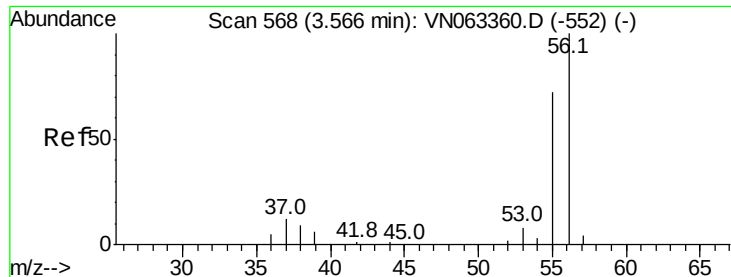
100

50

0

Time--> 4.72 4.73 4.74 4.75





#13

Acrolein

Concen: 0.355 ug/l

RT: 3.48 min Scan# 542

Delta R.T. -0.08 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

Instrument :

MSVOA_N

ClientSampleId :

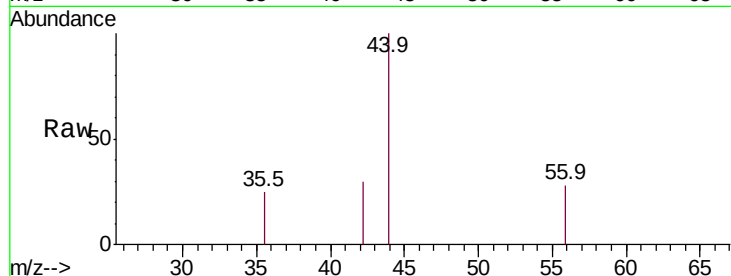
SU-02-092220

Tot Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

200

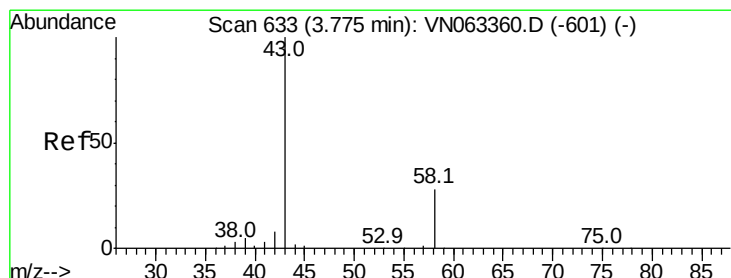
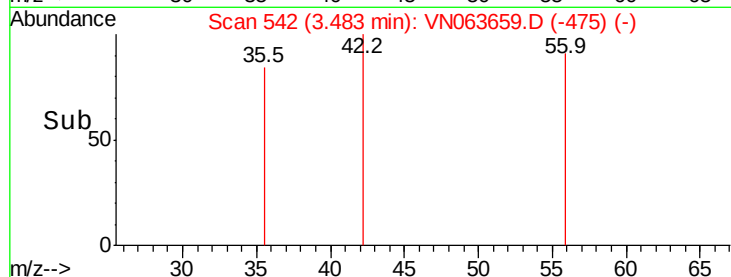
150

100

50

0

Time-->



#16

Acetone

Concen: 23.941 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063659.D

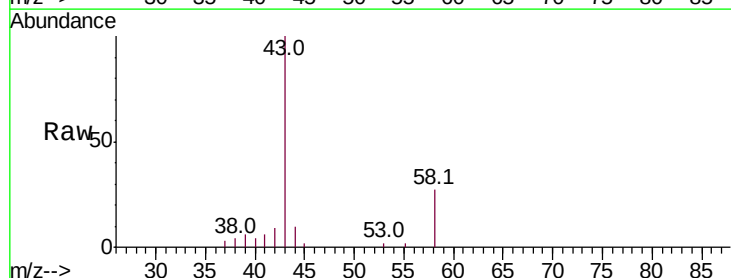
Acq: 25 Sep 2020 4:37

Tgt Ion: 43 Resp: 26193

Ion Ratio Lower Upper

43 100

58 27.3 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10000

8000

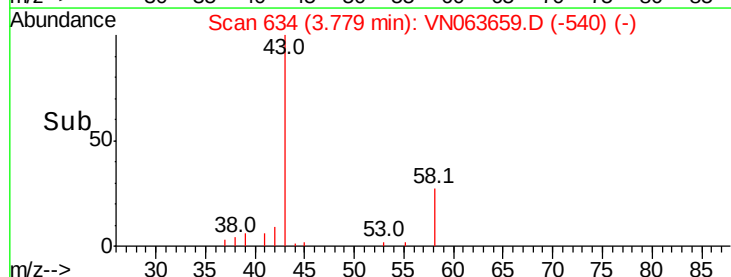
6000

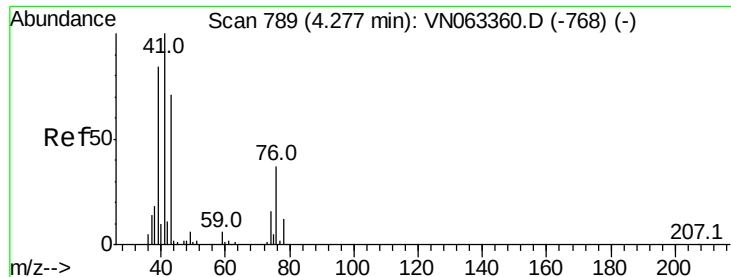
4000

2000

0

Time-->

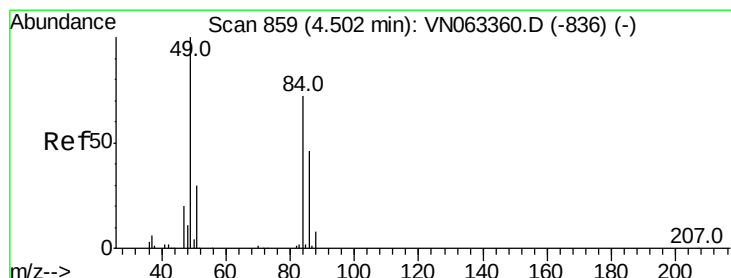
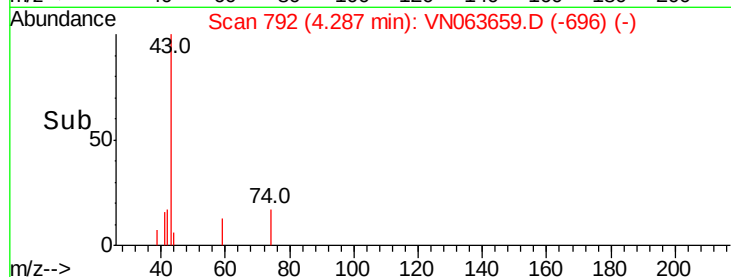
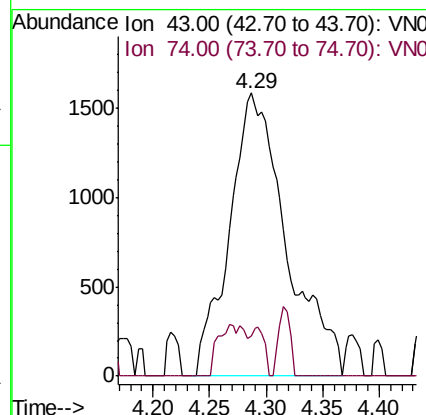
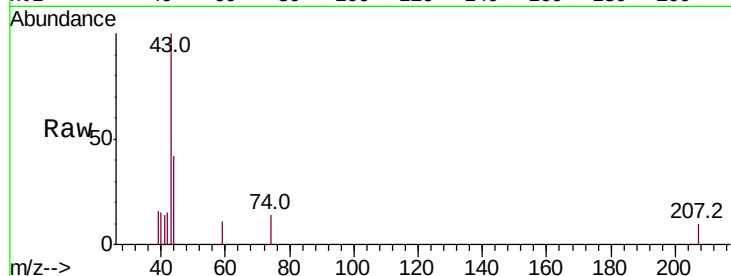




#18
Methyl Acetate
Concen: 2.006 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063659.D
Acq: 25 Sep 2020 4:37

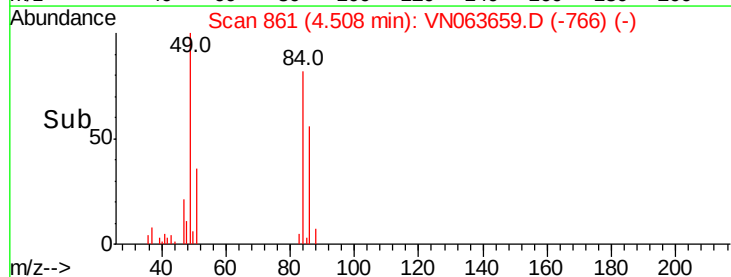
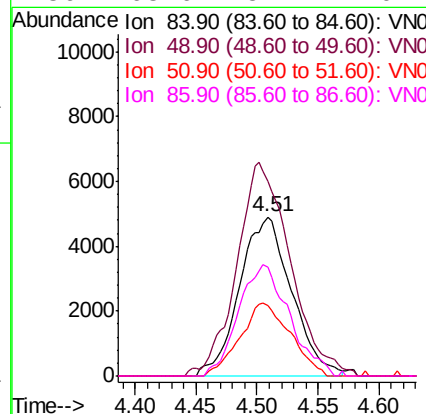
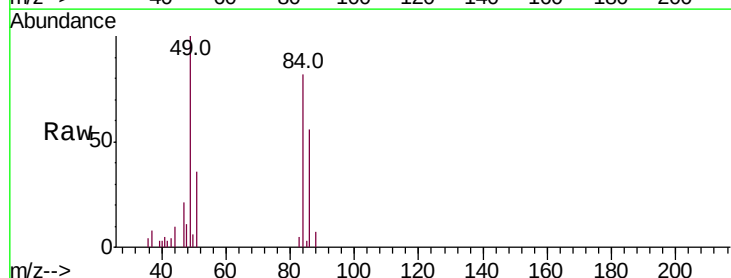
Instrument :
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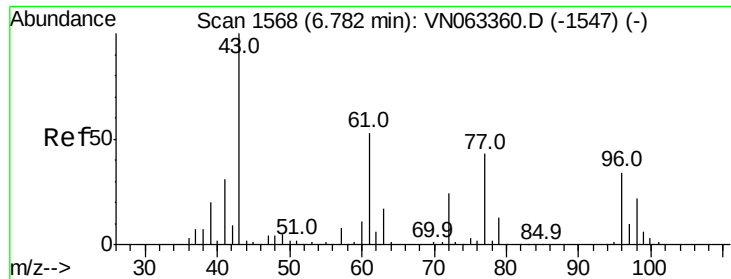
Tot Ion: 43 Resp: 5571
Ion Ratio Lower Upper
43 100
74 5.9 17.4 26.2#



#20
Methylene Chloride
Concen: 5.227 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063659.D
Acq: 25 Sep 2020 4:37

Tgt Ion: 84 Resp: 14490
Ion Ratio Lower Upper
84 100
49 117.3 110.7 166.1
51 44.0 32.9 49.3
86 68.6 51.1 76.7

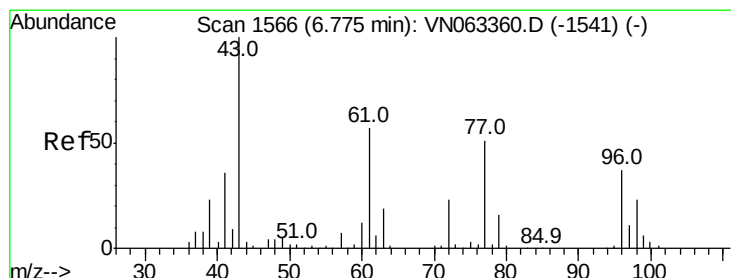
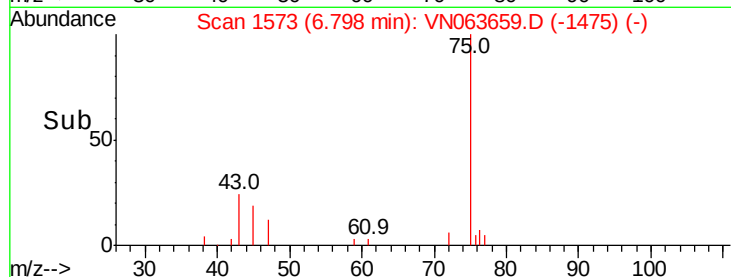
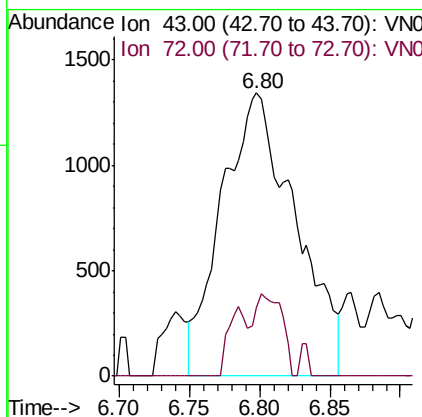
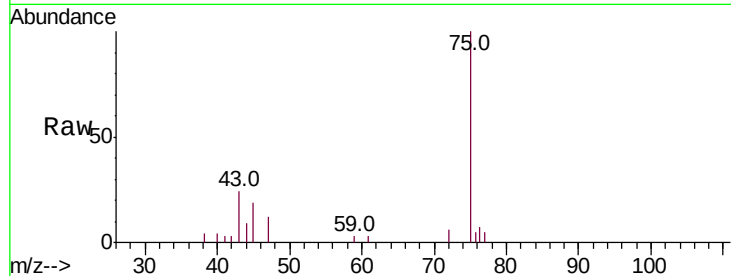




#25
 2-Butanone
 Concen: 2.903 ug/l
 RT: 6.80 min Scan# 1573
 Delta R.T. 0.02 min
 Lab File: VN063659.D
 Acq: 25 Sep 2020 4:37

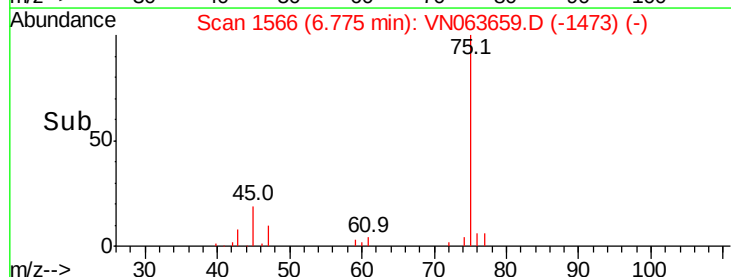
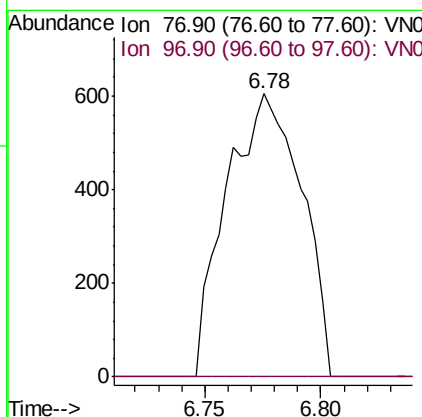
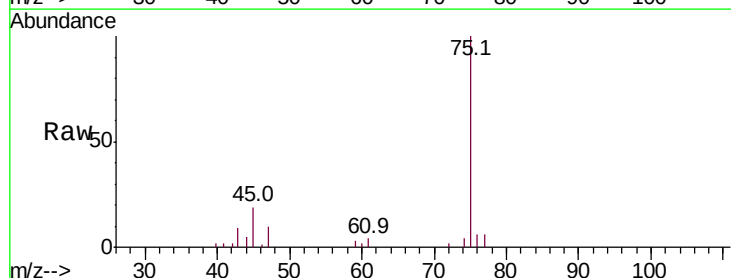
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-092220

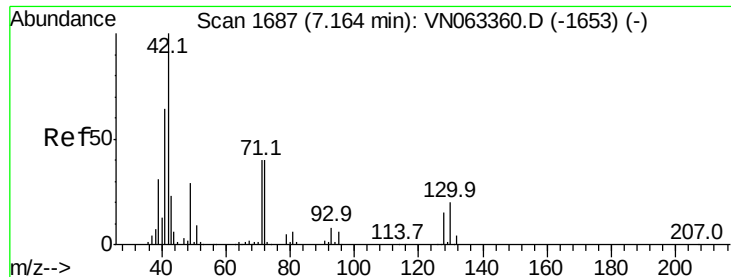
Tot Ion: 43 Resp: 4884
 Ion Ratio Lower Upper
 43 100
 72 29.9 19.2 28.8#



#26
 2,2-Dichloropropane
 Concen: 0.312 ug/l
 RT: 6.78 min Scan# 1566
 Delta R.T. -0.00 min
 Lab File: VN063659.D
 Acq: 25 Sep 2020 4:37

Tgt Ion: 77 Resp: 1364
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.5 31.6#





#29

Tetrahydrofuran

Concen: 1.186 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

Instrument :

MSVOA_N

ClientSampleId :

SU-02-092220

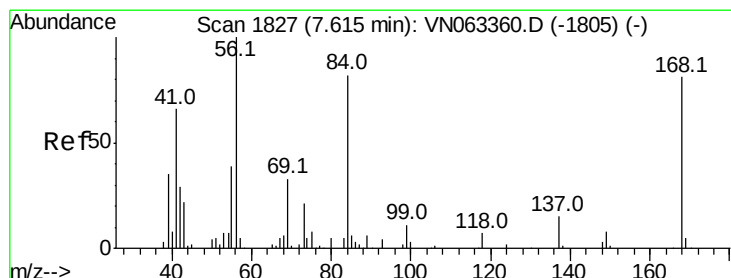
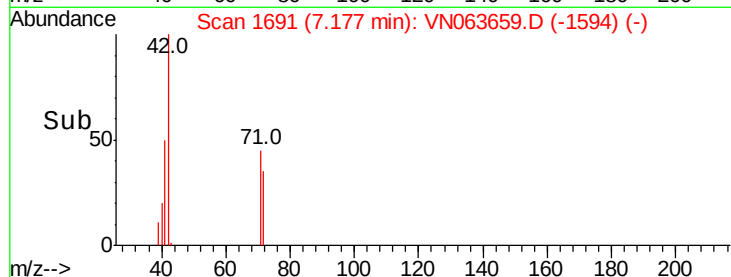
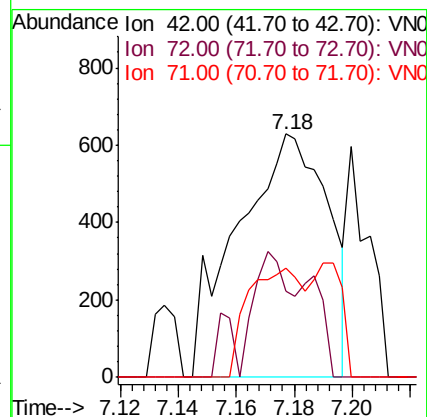
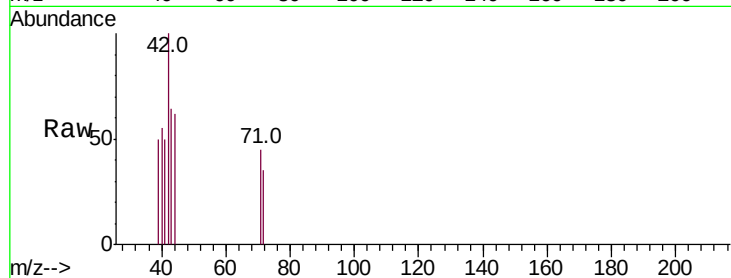
Tot Ion: 42 Resp: 1363

Ion Ratio Lower Upper

42 100

72 20.7 32.1 48.1#

71 27.2 31.2 46.8#



#31

Cyclohexane

Concen: 1.354 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

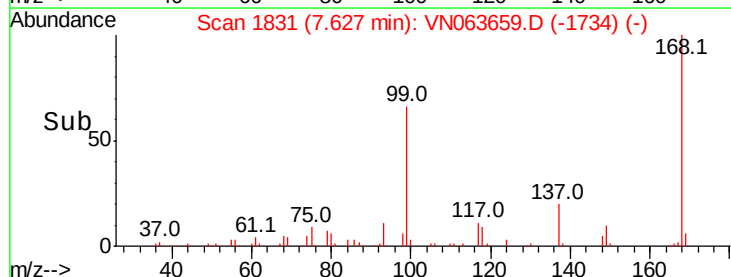
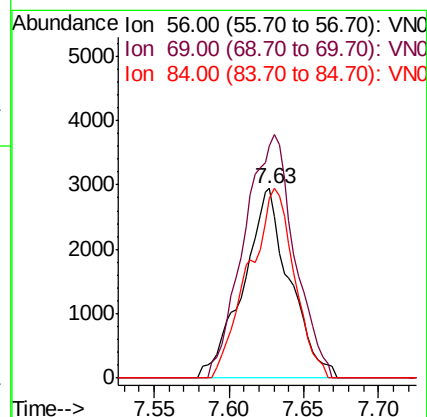
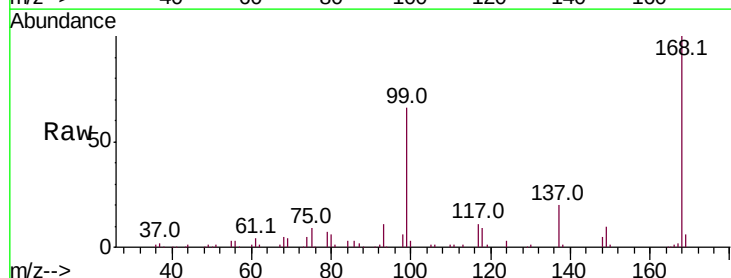
Tgt Ion: 56 Resp: 6366

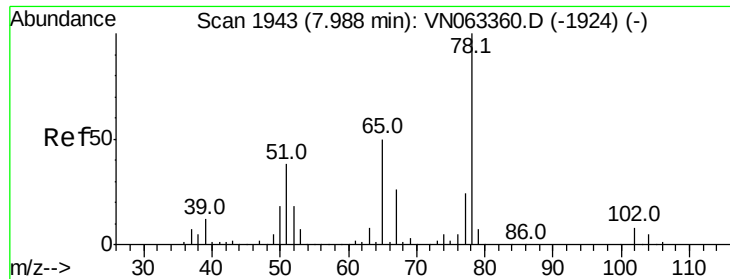
Ion Ratio Lower Upper

56 100

69 122.1 26.1 39.1#

84 94.8 65.4 98.2

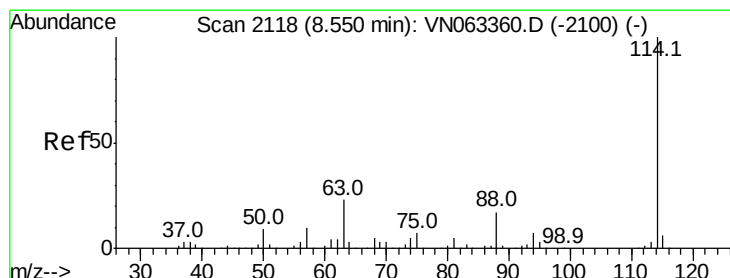
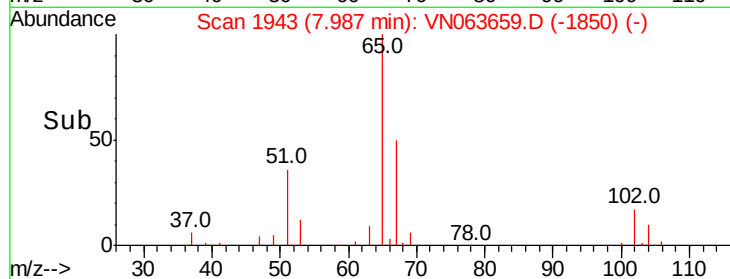
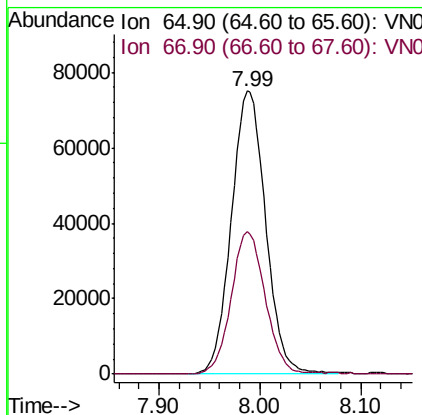
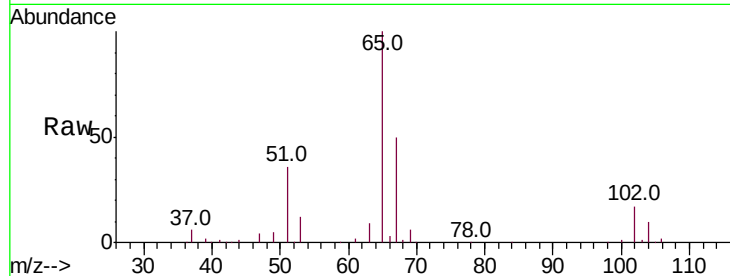




#33
 1,2-Dichloroethane-d4
 Concen: 52.096 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063659.D
 Acq: 25 Sep 2020 4:37

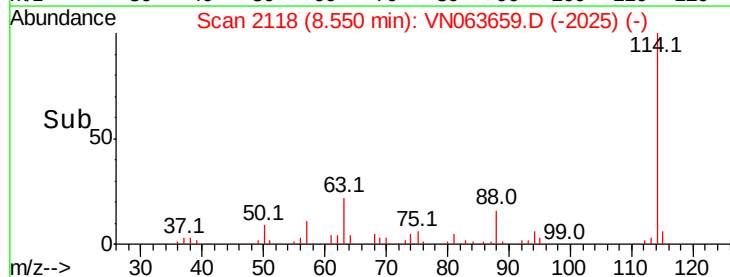
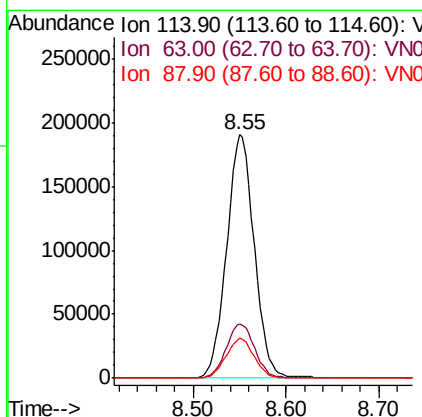
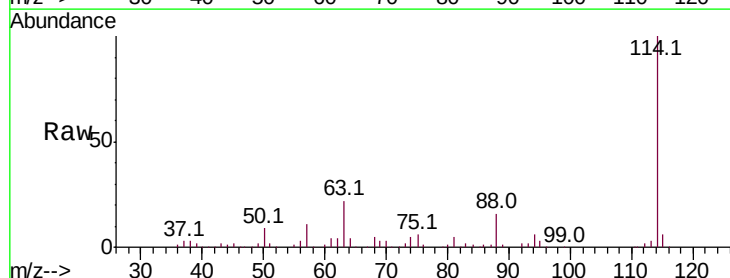
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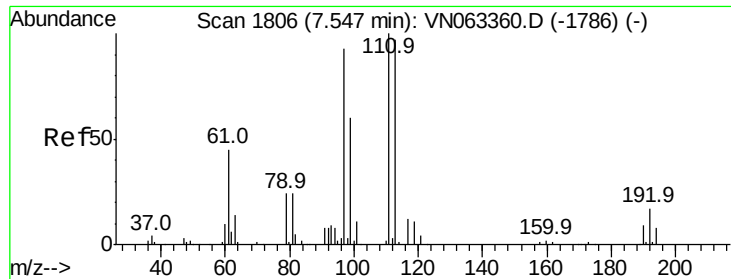
Tot Ion: 65 Resp: 177346
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063659.D
 Acq: 25 Sep 2020 4:37

Tgt Ion: 114 Resp: 393481
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 46.4
 88 16.4 0.0 33.2

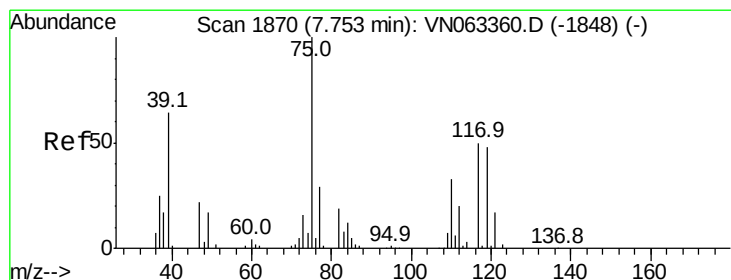
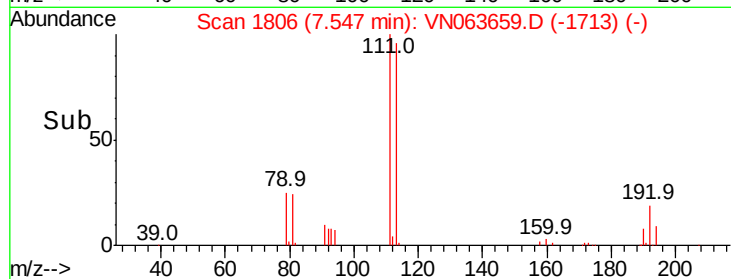
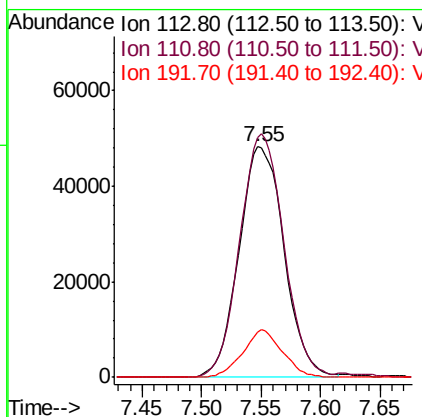
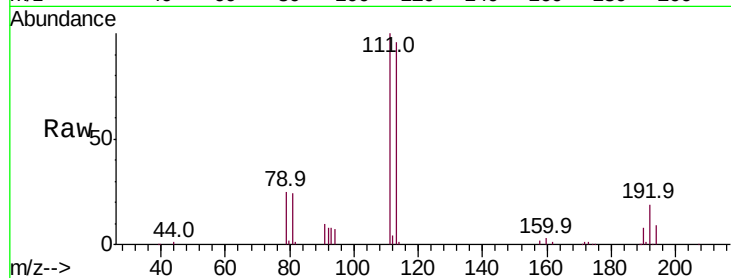




#35
 Dibromofluoromethane
 Concen: 46.607 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN063659.D
 Acq: 25 Sep 2020 4:37

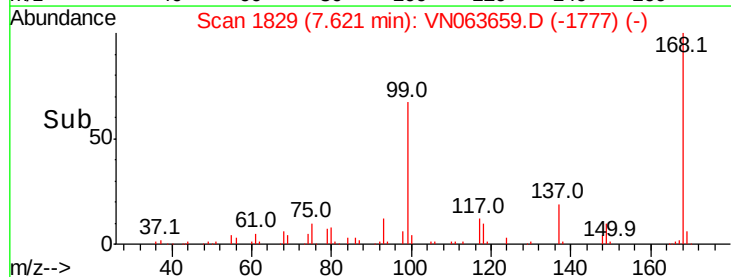
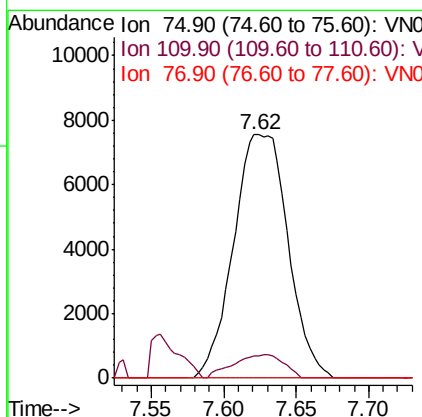
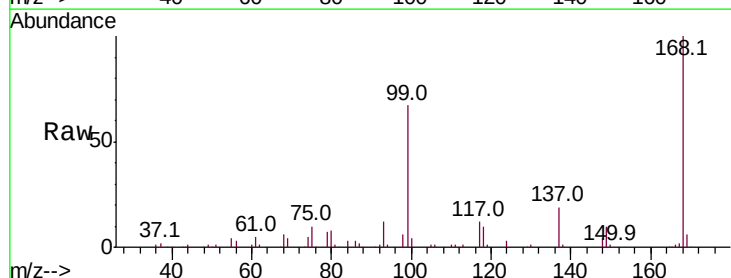
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-092220

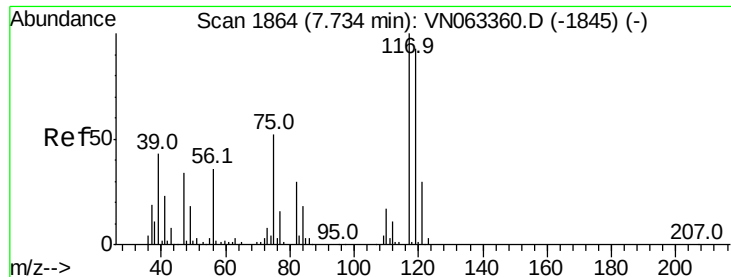
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.9	124.3
192	18.1	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.696 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN063659.D
 Acq: 25 Sep 2020 4:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	16.5	49.5#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.170 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

Instrument :

MSVOA_N

ClientSampleId :

SU-02-092220

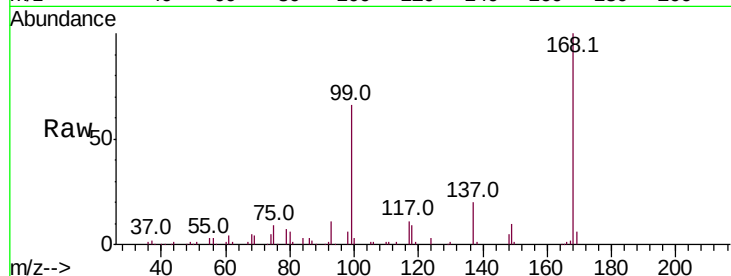
Tot Ion:117 Resp: 22125

Ion Ratio Lower Upper

117 100

119 5.5 74.5 111.7#

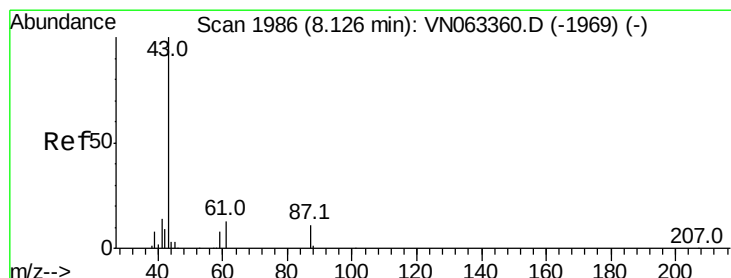
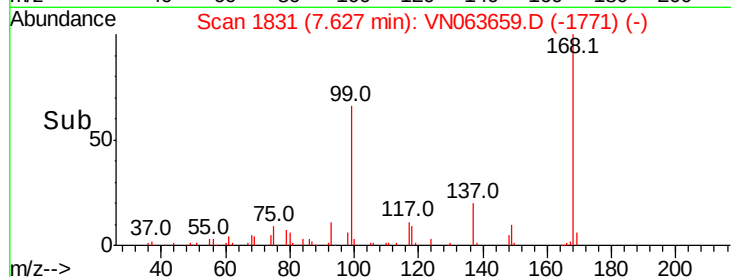
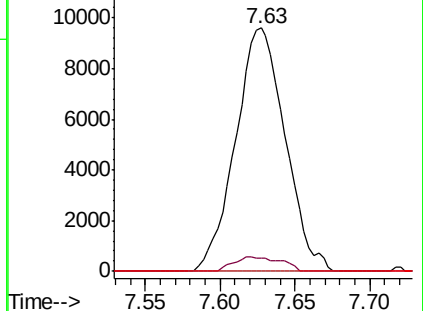
121 0.0 24.1 36.1#



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: 6.728 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

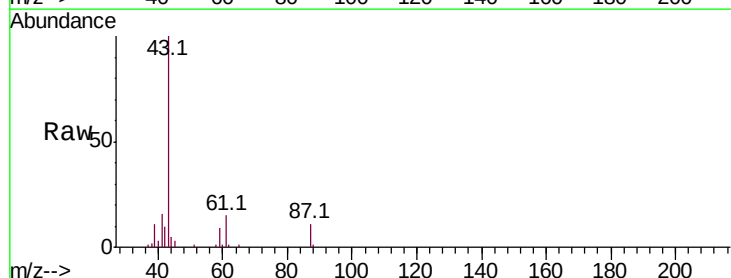
Tgt Ion: 43 Resp: 49497

Ion Ratio Lower Upper

43 100

61 16.7 14.2 21.2

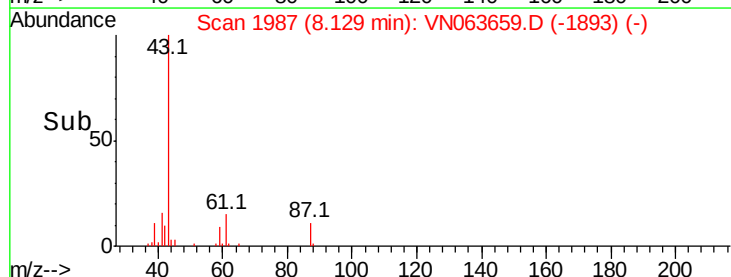
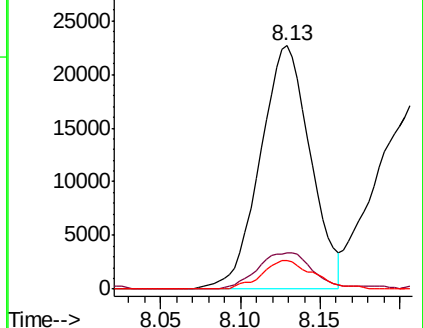
87 12.1 9.0 13.6

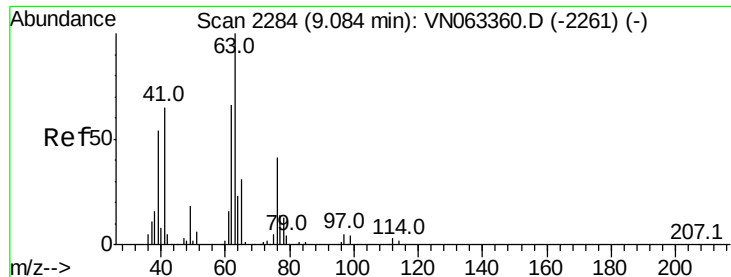


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.232 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

Instrument :

MSVOA_N

ClientSampleId :

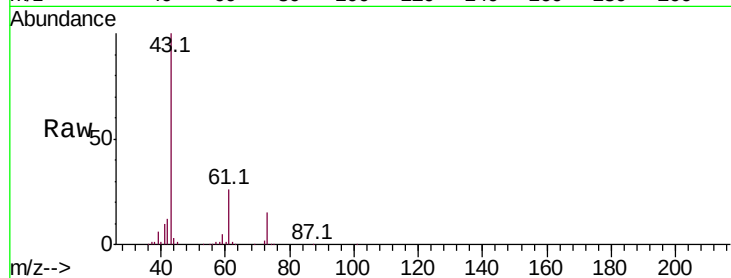
SU-02-092220

Tot Ion: 63 Resp: 756

Ion Ratio Lower Upper

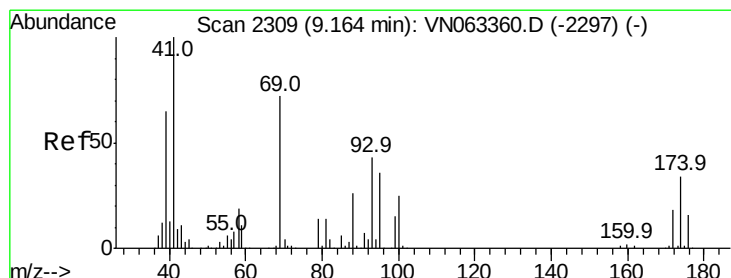
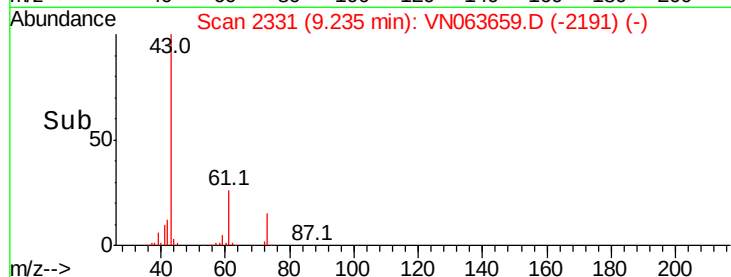
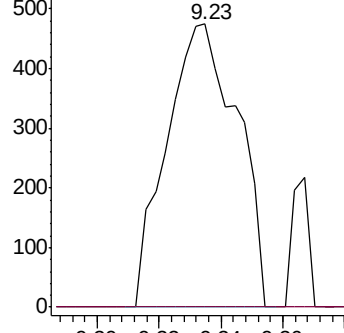
63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 1.184 ug/l

RT: 9.14 min Scan# 2301

Delta R.T. -0.03 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

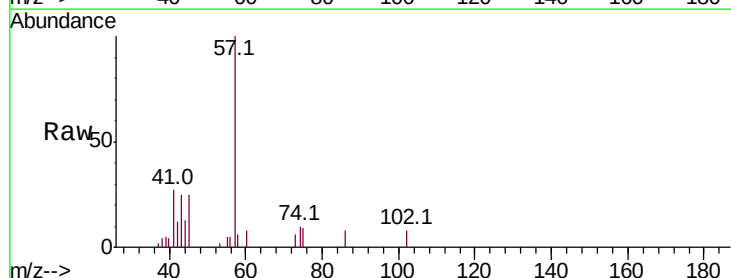
Tgt Ion: 41 Resp: 4281

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

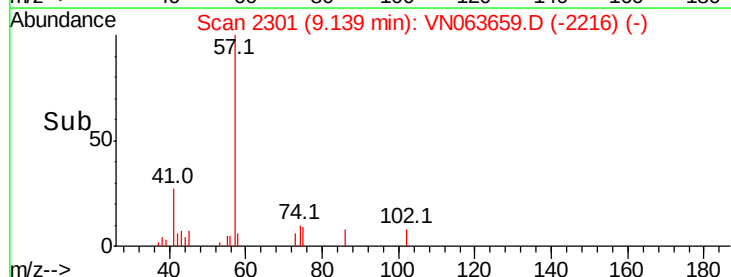
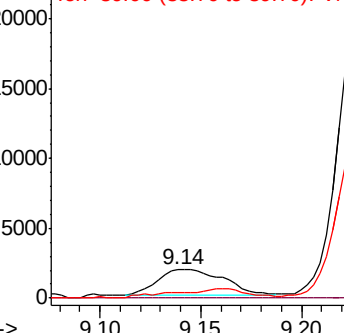
39 0.0 52.9 79.3#

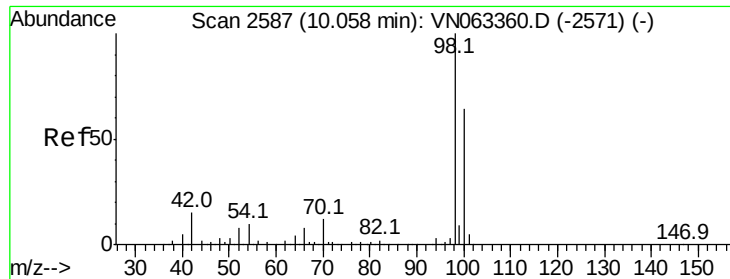


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 49.890 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

Instrument :

MSVOA_N

ClientSampleId :

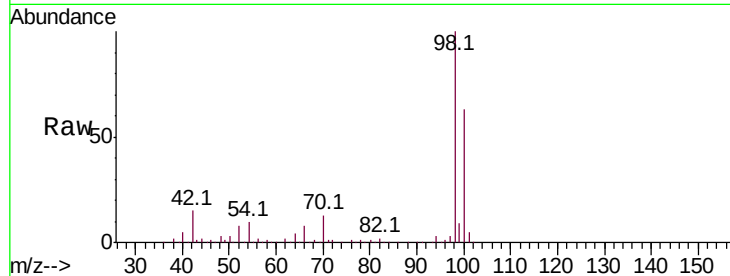
SU-02-092220

Tot Ion: 98 Resp: 511005

Ion Ratio Lower Upper

98 100

100 62.5 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

250000

200000

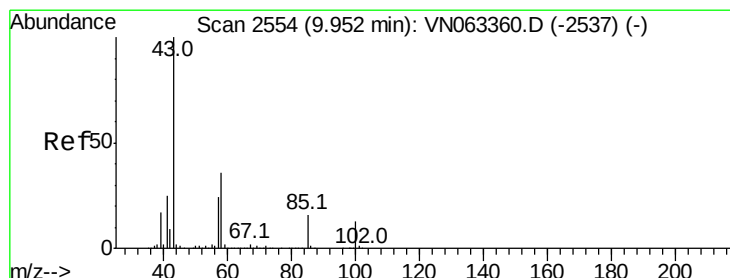
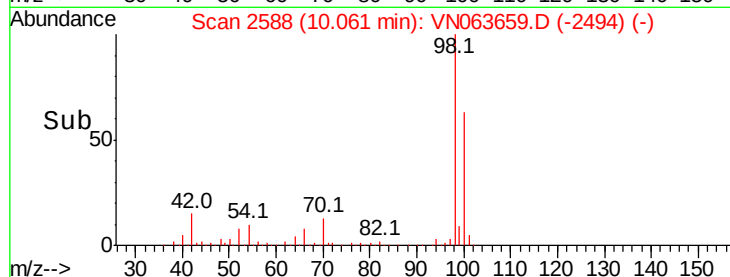
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.797 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN063659.D

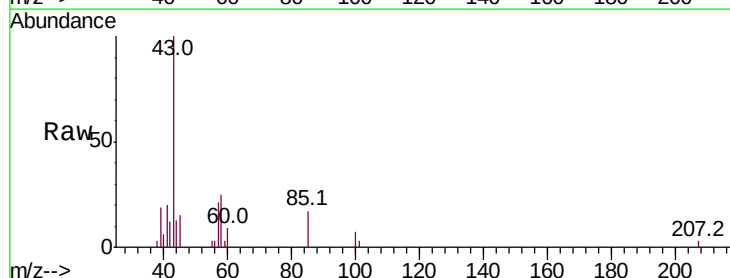
Acq: 25 Sep 2020 4:37

Tgt Ion: 43 Resp: 7401

Ion Ratio Lower Upper

43 100

58 38.7 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) (-)

9.95

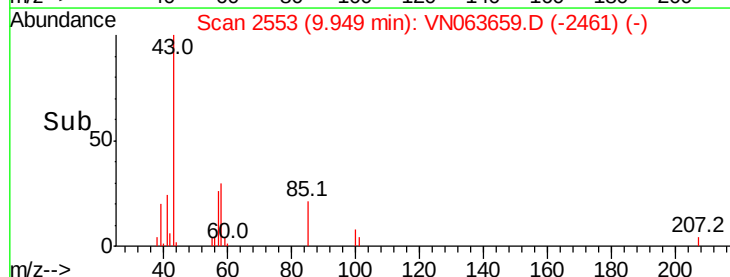
6000

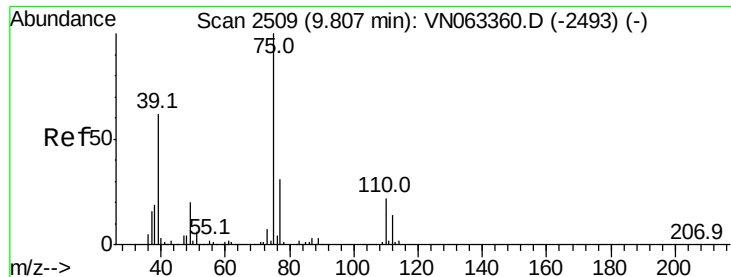
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 4.618 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

Instrument :

MSVOA_N

ClientSampleId :

SU-02-092220

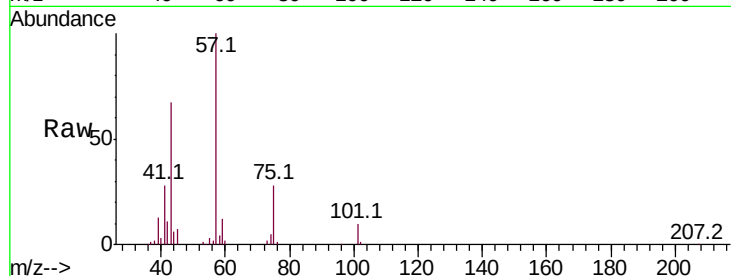
Tot Ion: 75 Resp: 24202

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

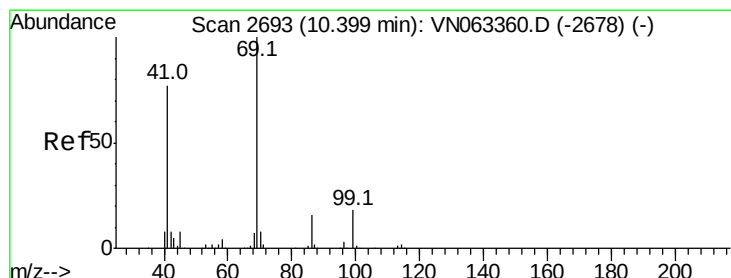
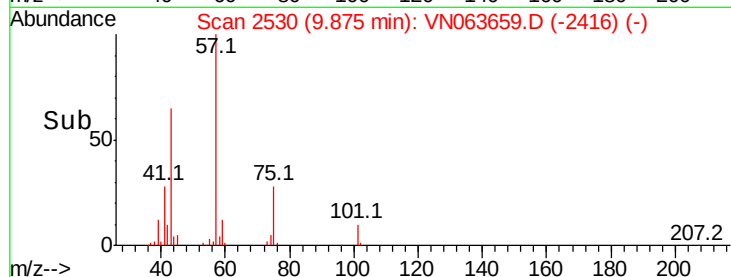
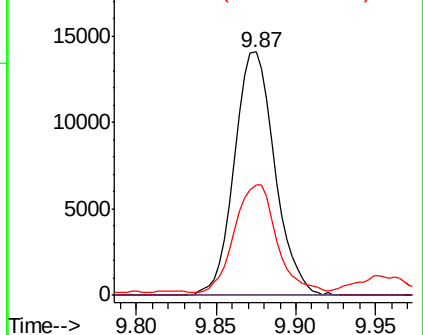
39 43.7 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.378 ug/l

RT: 10.51 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

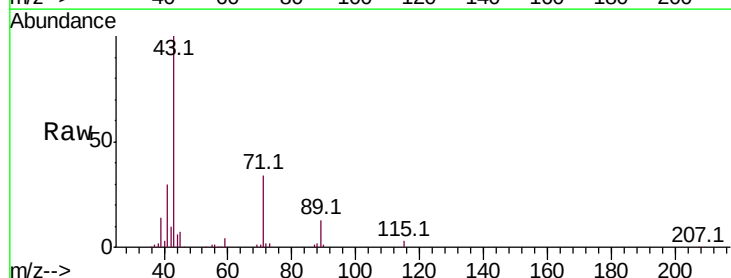
Tgt Ion: 69 Resp: 1687

Ion Ratio Lower Upper

69 100

41 3490.9 61.0 91.6#

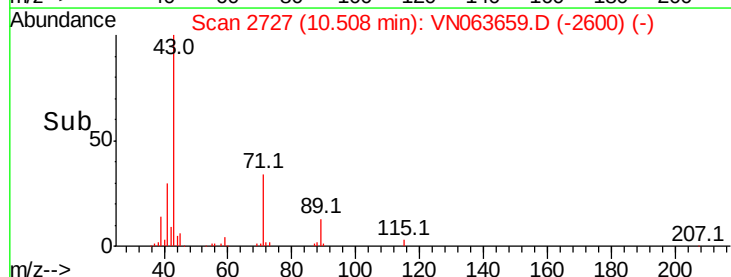
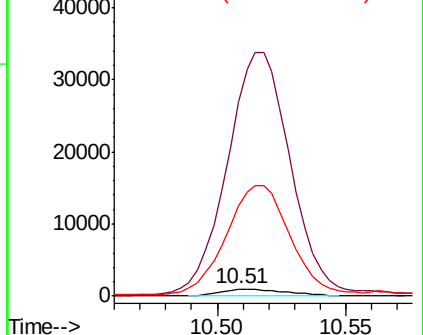
39 1543.0 39.2 58.8#

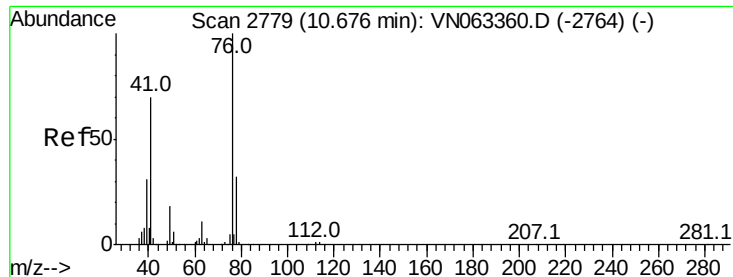


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.685 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

Instrument :

MSVOA_N

ClientSampleId :

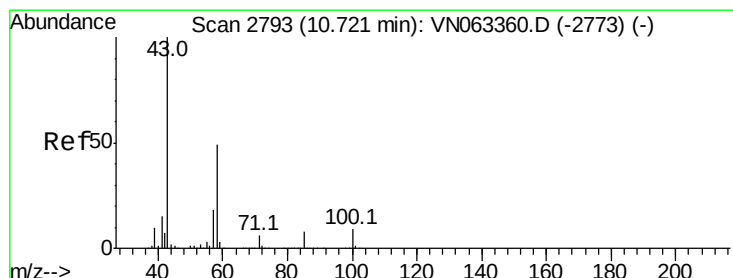
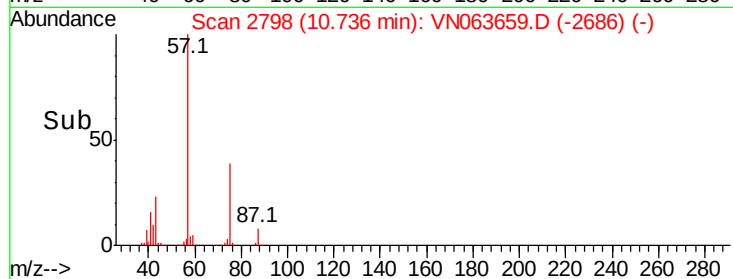
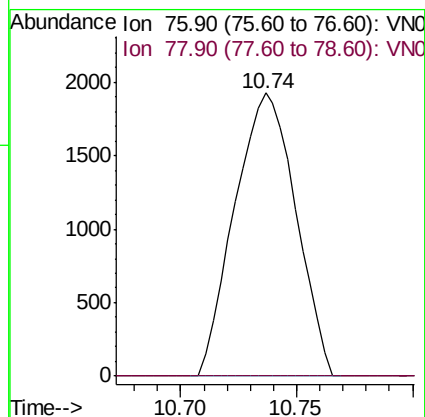
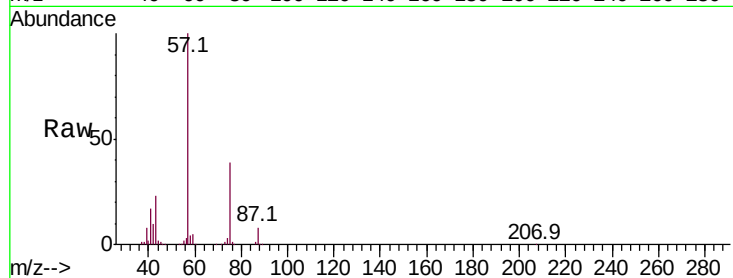
SU-02-092220

Tot Ion: 76 Resp: 3528

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 18.649 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063659.D

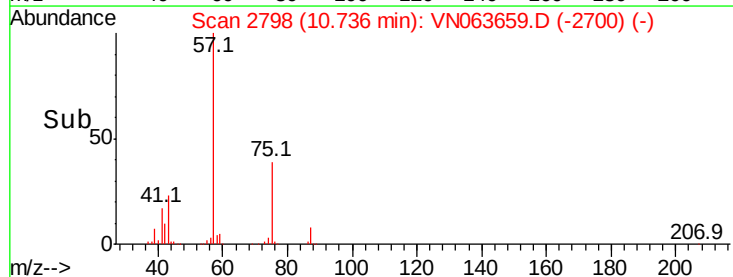
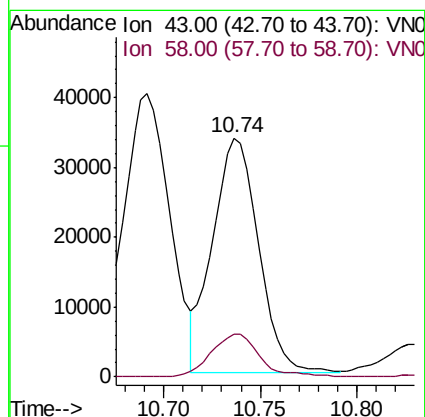
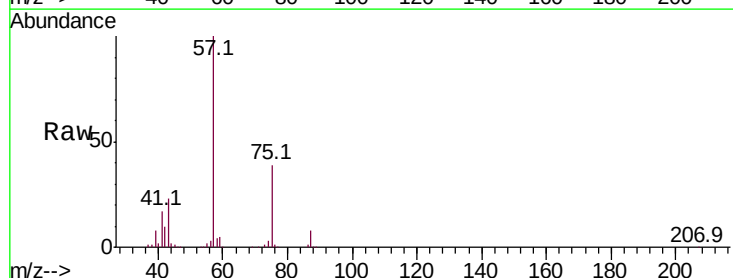
Acq: 25 Sep 2020 4:37

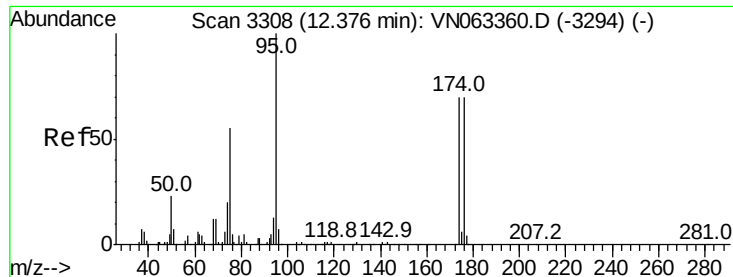
Tgt Ion: 43 Resp: 55643

Ion Ratio Lower Upper

43 100

58 19.2 24.7 74.1#

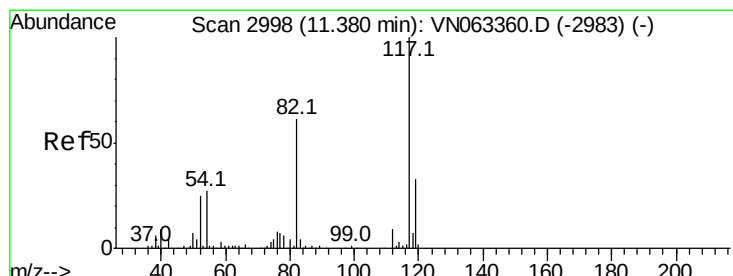
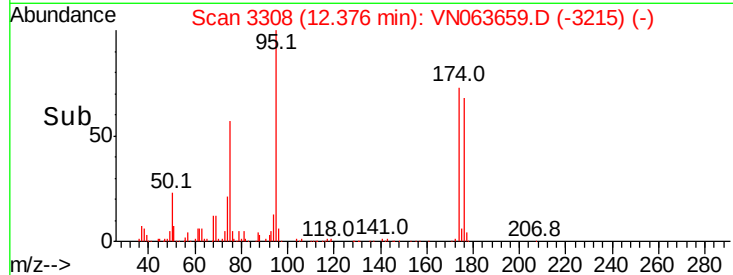
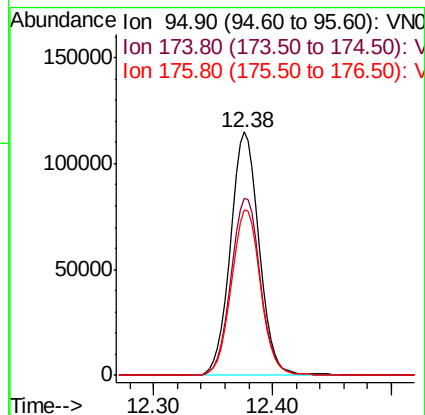
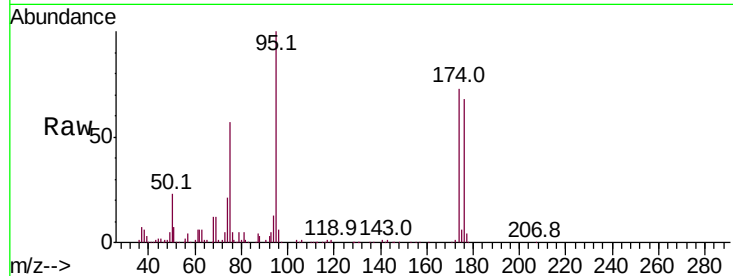




#62
4-Bromofluorobenzene
Concen: 51.139 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063659.D
Acq: 25 Sep 2020 4:37

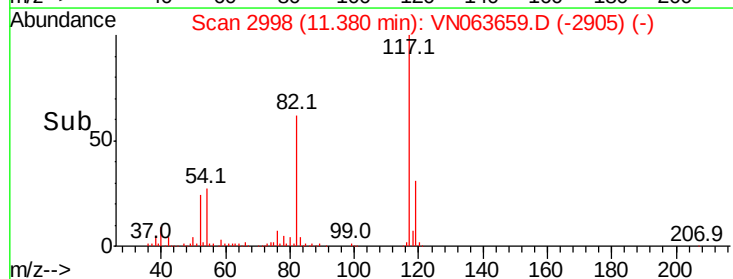
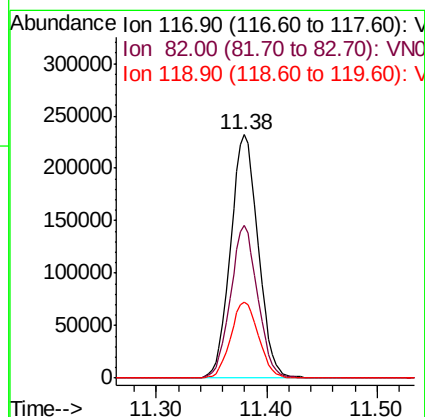
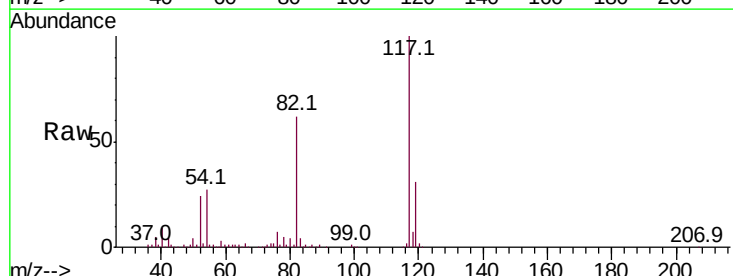
Instrument :
MSVOA_N
ClientSampleId :
SU-02-092220

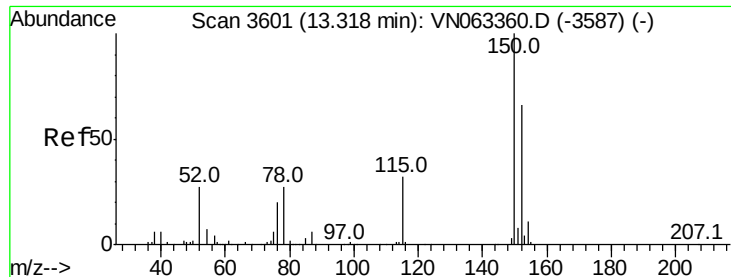
Tot Ion	95	174	176
Resp: 192014	100	74.7	69.2
Lower		0.0	0.0
Upper		140.8	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063659.D
Acq: 25 Sep 2020 4:37

Tgt Ion	117	82	119
Resp: 403078	100	62.5	31.4
Lower		49.2	26.2
Upper		73.8	39.4

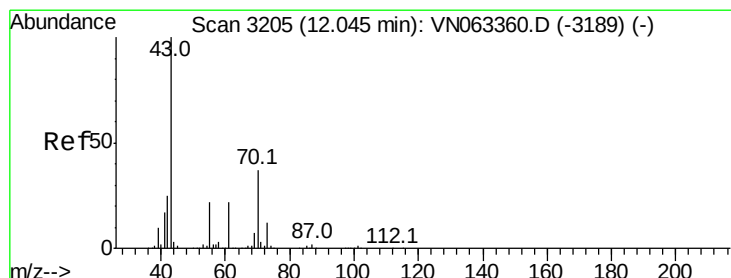
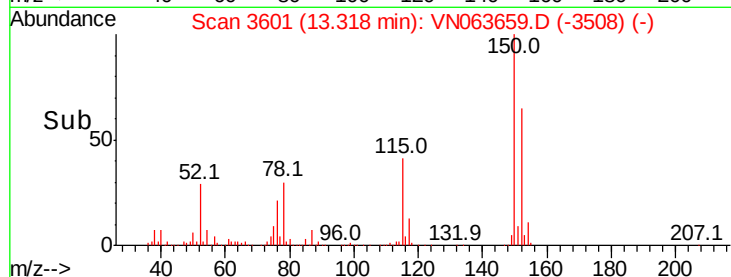
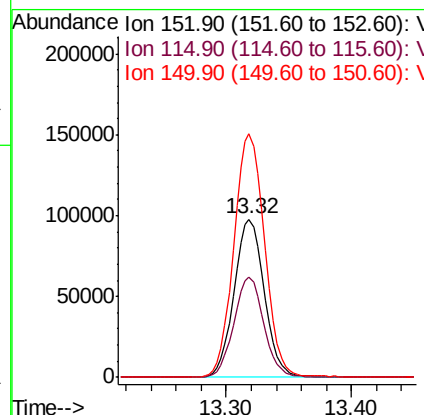
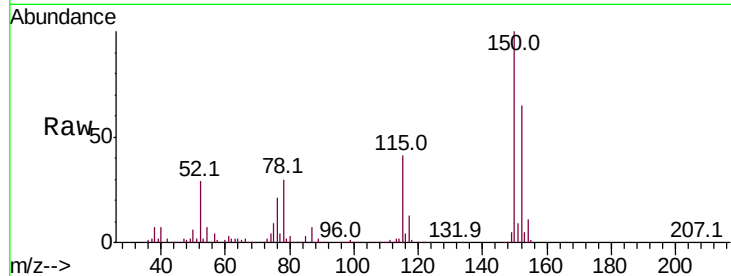




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3601
 Delta R.T. -0.00 min
 Lab File: VN063659.D
 Acq: 25 Sep 2020 4:37

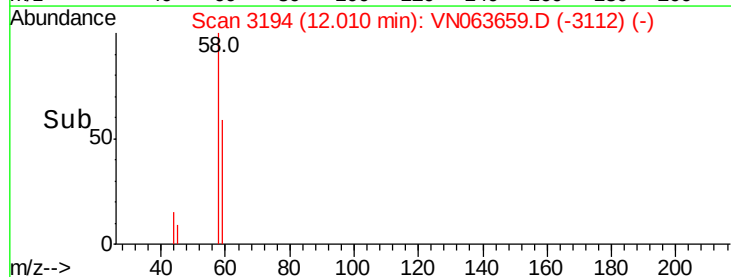
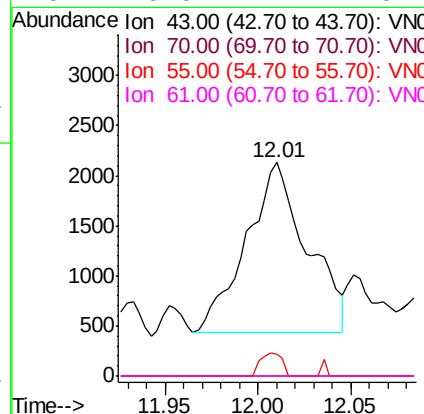
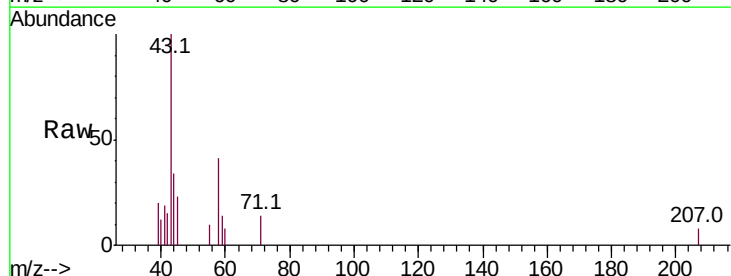
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-092220

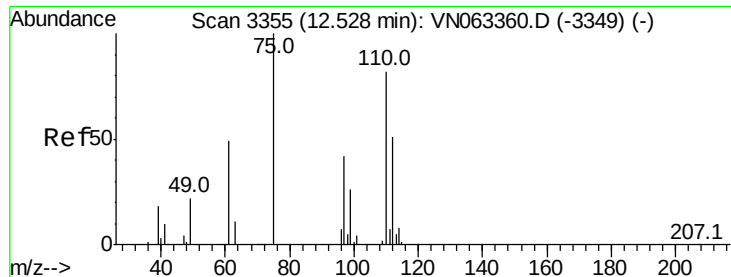
Tot Ion:152 Resp: 163356
 Ion Ratio Lower Upper
 152 100
 115 62.7 32.2 96.6
 150 157.0 0.0 343.4



#74
 N-ethyl acetate
 Concen: 0.630 ug/l
 RT: 12.01 min Scan# 3194
 Delta R.T. -0.04 min
 Lab File: VN063659.D
 Acq: 25 Sep 2020 4:37

Tgt Ion: 43 Resp: 3905
 Ion Ratio Lower Upper
 43 100
 70 0.0 29.6 44.4#
 55 4.8 17.7 26.5#
 61 0.0 17.4 26.2#





#76

1,2,3-Trichloropropane

Concen: 27.539 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

Instrument :

MSVOA_N

ClientSampleId :

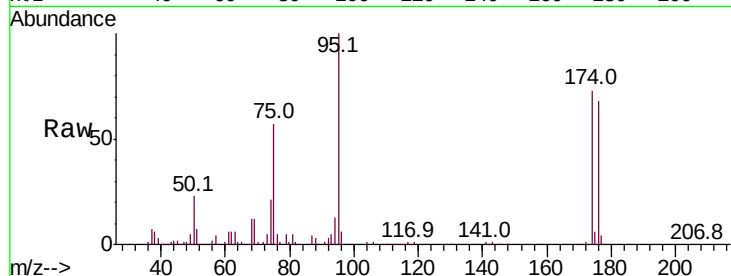
SU-02-092220

Tot Ion: 75 Resp: 111349

Ion Ratio Lower Upper

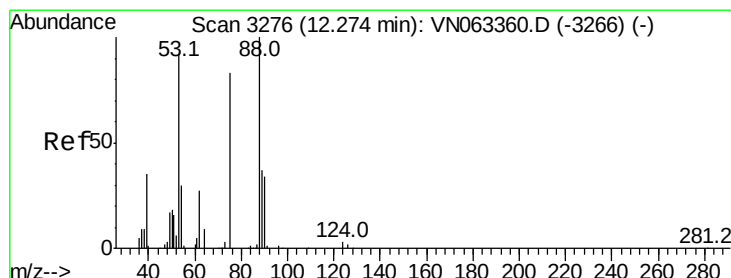
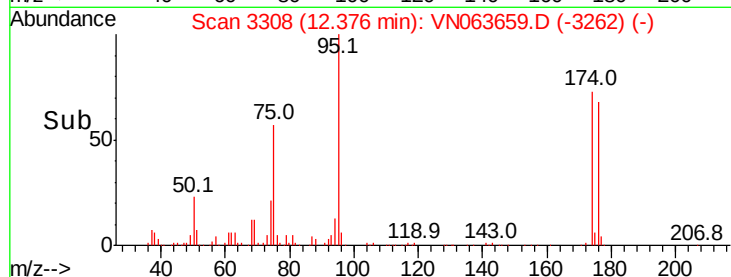
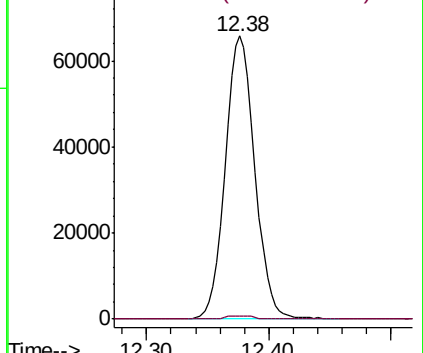
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 75.502 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

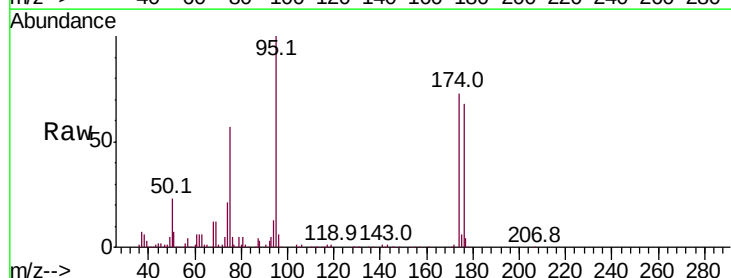
Tgt Ion: 75 Resp: 111349

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

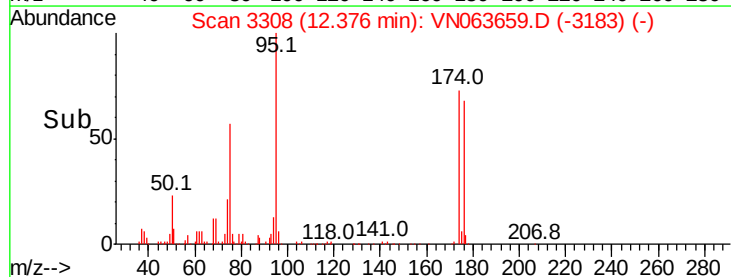
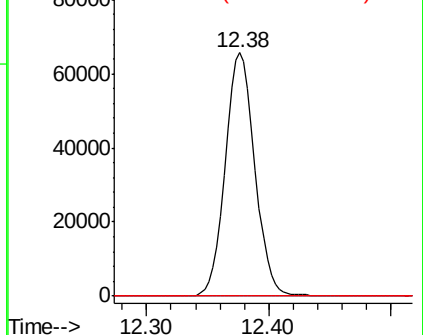
89 0.0 38.0 57.0#

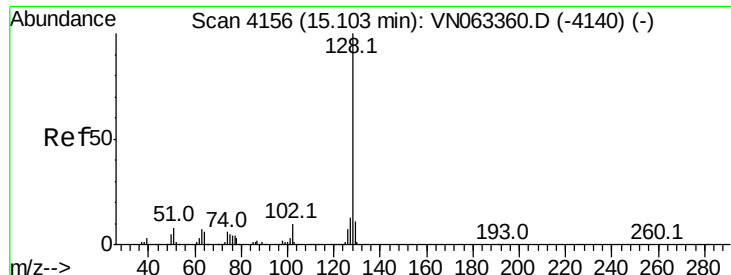


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 2.335 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. -0.00 min

Lab File: VN063659.D

Acq: 25 Sep 2020 4:37

Instrument :

MSVOA_N

ClientSampleId :

SU-02-092220

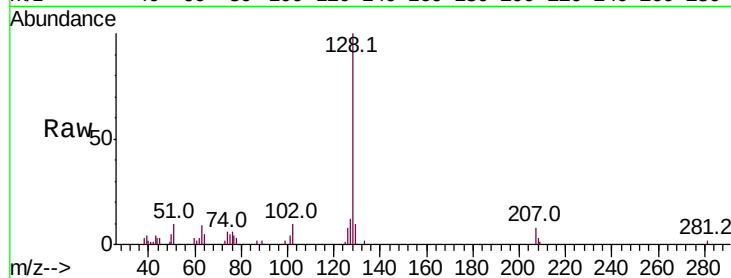
Tot Ion:128 Resp: 24373

Ion Ratio Lower Upper

128 100

127 14.2 10.6 15.8

129 9.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

