

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102720\
 Data File : VN064335.D
 Acq On : 27 Oct 2020 18:50
 Operator : JC/MD
 Sample : L4219-24
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-102320

Quant Time: Oct 28 04:28:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	233392	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	400795	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	416587	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	186273	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	186936	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
35) Dibromofluoromethane	7.55	113	133982	50.13	ug/l	0.00
Spiked Amount			Recovery	=	100.26%	
50) Toluene-d8	10.06	98	509390	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
62) 4-Bromofluorobenzene	12.38	95	227186	58.94	ug/l	0.00
Spiked Amount			Recovery	=	117.88%	

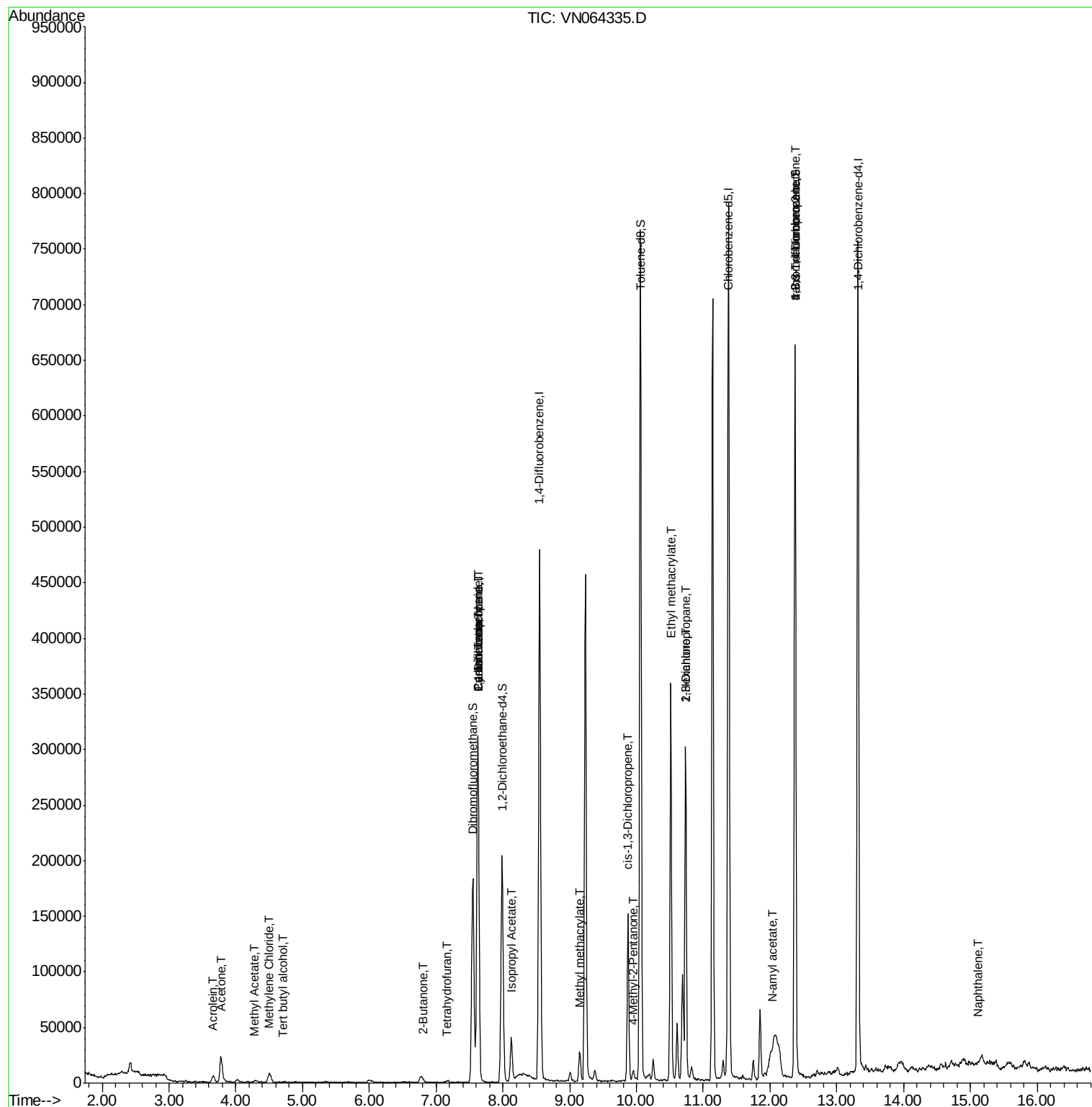
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	180	0.331	ug/l #	70
13) Acrolein	3.65	56	99	18.458	ug/l	94
16) Acetone	3.78	43	41706	26.036	ug/l	97
18) Methyl Acetate	4.28	43	1846	0.655	ug/l #	55
20) Methylene Chloride	4.51	84	5390	2.026	ug/l #	85
25) 2-Butanone	6.81	43	2681	1.424	ug/l #	87
29) Tetrahydrofuran	7.16	42	652	0.533	ug/l #	57
31) Cyclohexane	7.62	56	5260	1.208	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	21337	5.275	ug/l #	48
38) Carbon Tetrachloride	7.63	117	25194	5.372	ug/l #	17
43) Isopropyl Acetate	8.13	43	51100	7.316	ug/l #	89
48) Methyl methacrylate	9.15	41	4865	1.350	ug/l #	25
51) 4-Methyl-2-Pentanone	9.96	43	6618	1.630	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	24196	4.756	ug/l #	70
56) Ethyl methacrylate	10.52	69	1432	0.337	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2855	0.597	ug/l #	49
59) 2-Hexanone	10.74	43	47822	15.993	ug/l #	53
74) N-amyl acetate	12.03	43	1890	0.308	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	127231	28.522	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	127231	82.160	ug/l #	8
95) Naphthalene	15.10	128	210	2.411	ug/l #	1

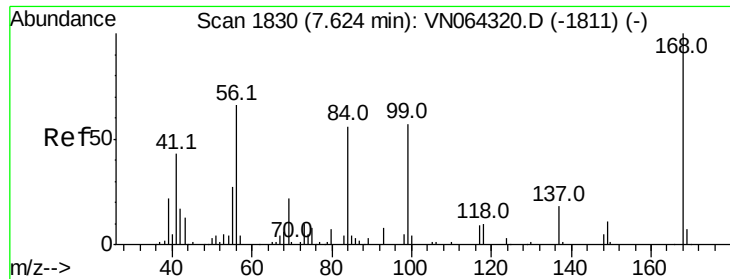
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN064335.D
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Quant Title : SW846 8260
QLast Update : Tue Oct 27 12:23:17 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064335.D

Acq: 27 Oct 2020 18:50

Instrument :

MSVOA_N

ClientSampleId :

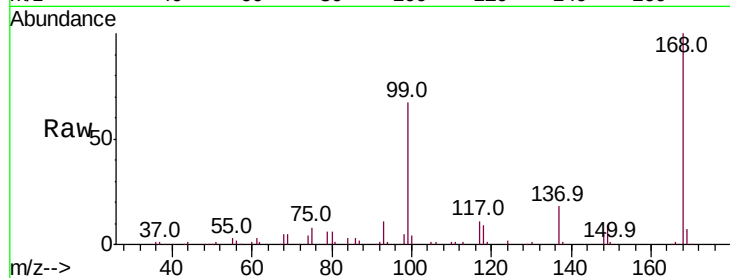
CL-01-102320

Tot Ion:168 Resp: 233392

Ion Ratio Lower Upper

168 100

99 67.0 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): VN064320.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN064320.D (-1811) (-)

7.63

100000

80000

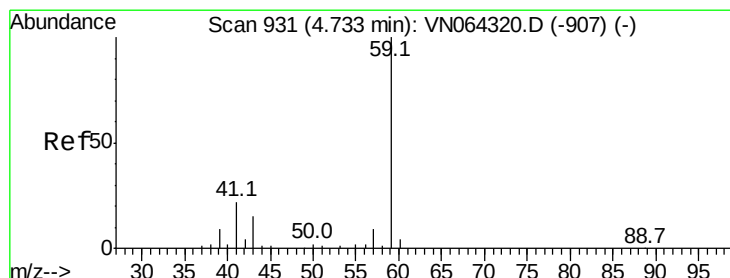
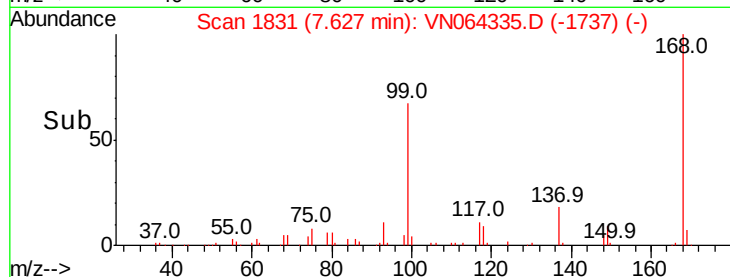
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.331 ug/l

RT: 4.72 min Scan# 926

Delta R.T. -0.02 min

Lab File: VN064335.D

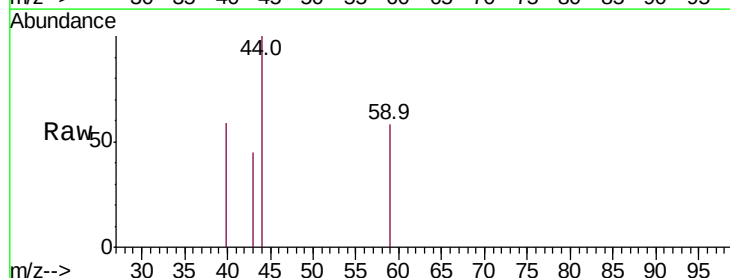
Acq: 27 Oct 2020 18:50

Tgt Ion: 59 Resp: 180

Ion Ratio Lower Upper

59 100

57 0.0 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VN064320.D (-907) (-)

Ion 57.00 (56.70 to 57.70): VN064320.D (-907) (-)

4.72

300

250

200

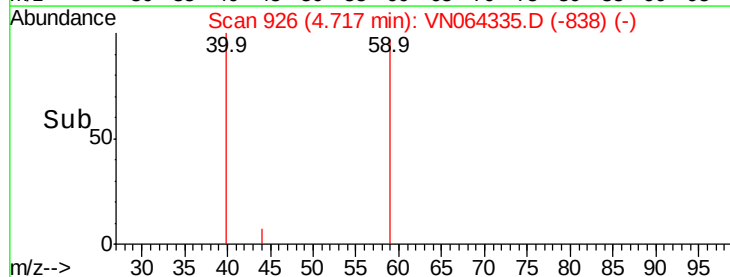
150

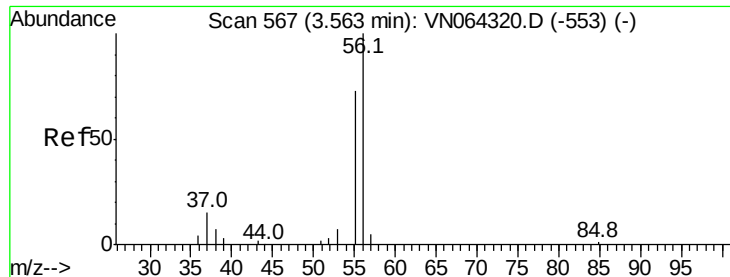
100

50

0

Time--> 4.71 4.72 4.73





#13

Acrolein

Concen: 18.458 ug/l

RT: 3.65 min Scan# 594

Delta R.T. 0.09 min

Lab File: VN064335.D

Acq: 27 Oct 2020 18:50

Instrument :

MSVOA_N

ClientSampled :

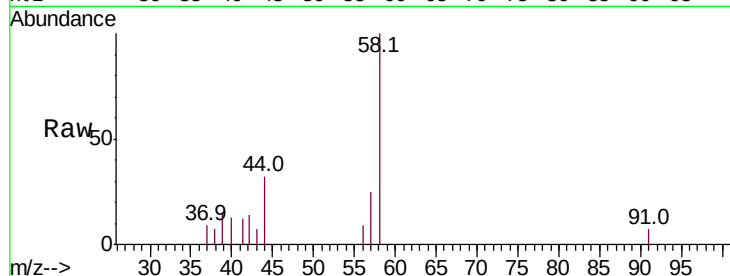
CL-01-102320

Tot Ion: 56 Resp: 99

Ion Ratio Lower Upper

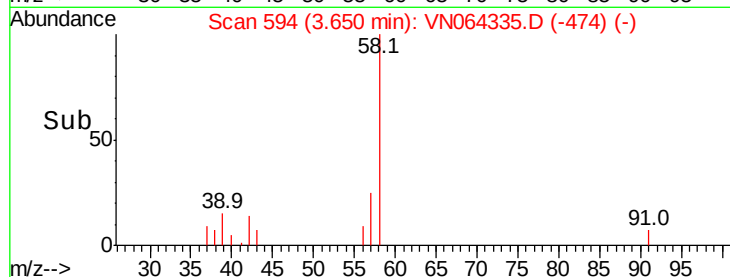
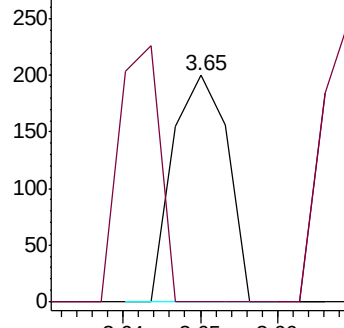
56 100

55 83.8 62.6 94.0

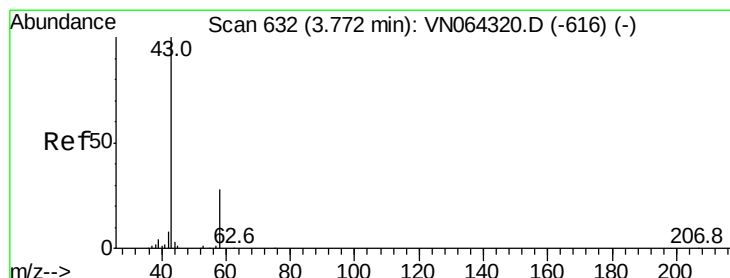


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#16

Acetone

Concen: 26.036 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064335.D

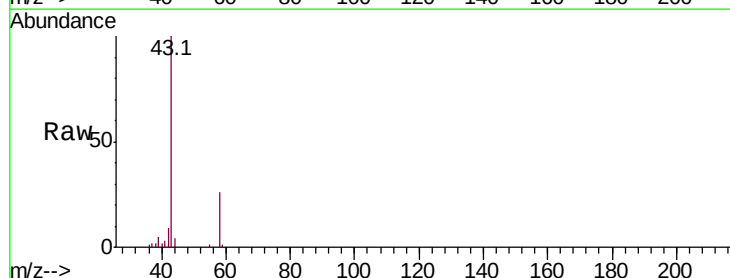
Acq: 27 Oct 2020 18:50

Tgt Ion: 43 Resp: 41706

Ion Ratio Lower Upper

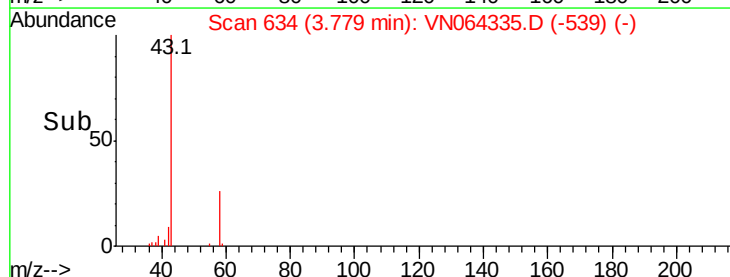
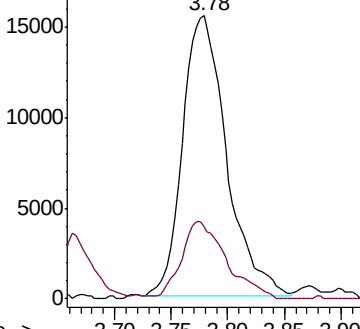
43 100

58 25.8 22.1 33.1

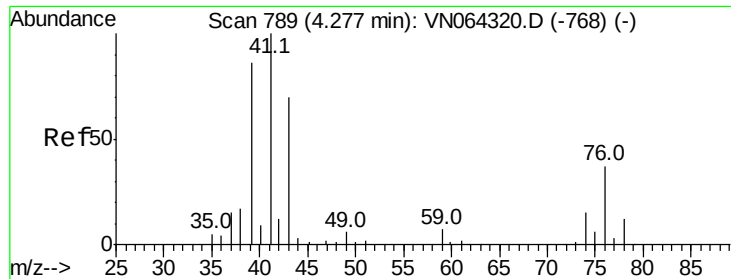


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



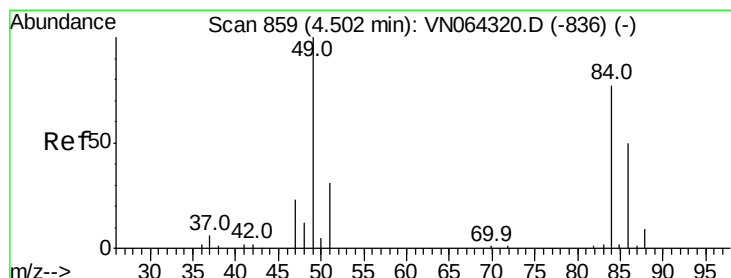
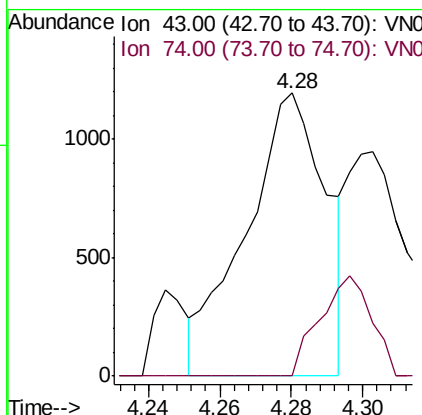
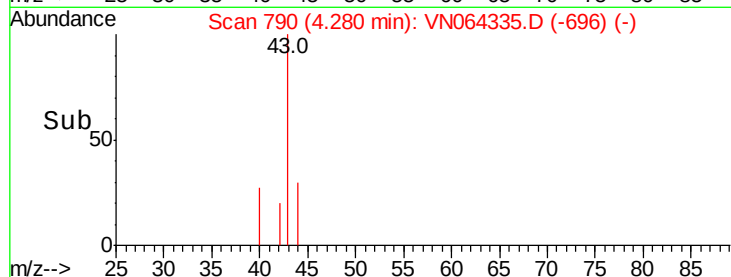
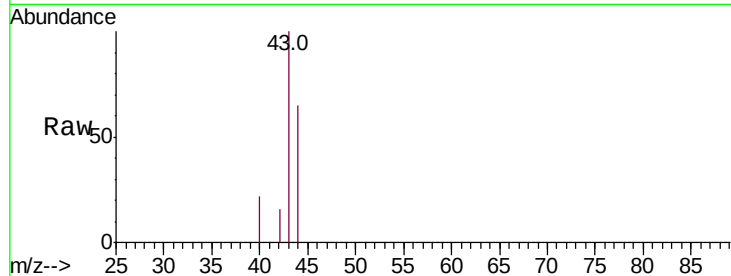
Time-->



#18
Methyl Acetate
Concen: 0.655 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN064335.D
Acq: 27 Oct 2020 18:50

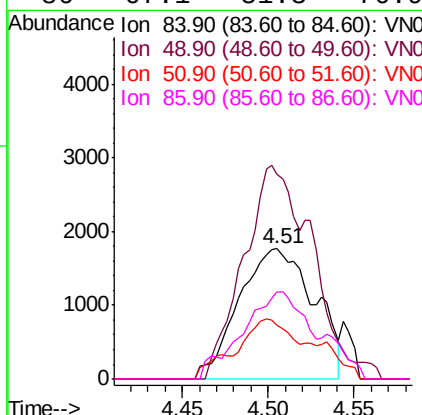
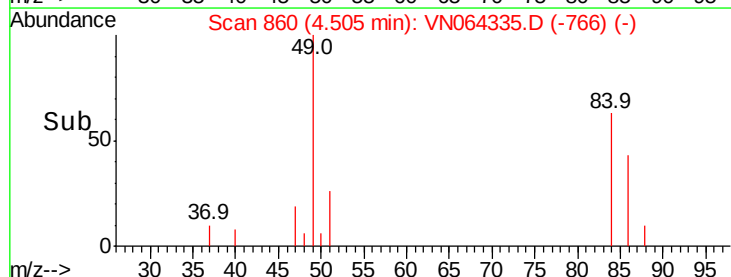
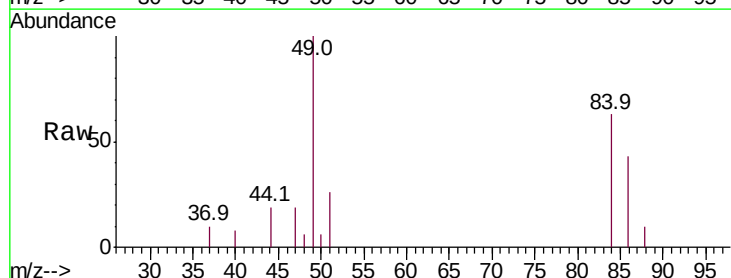
Instrument :
MSVOA_N
ClientSampled :
CL-01-102320

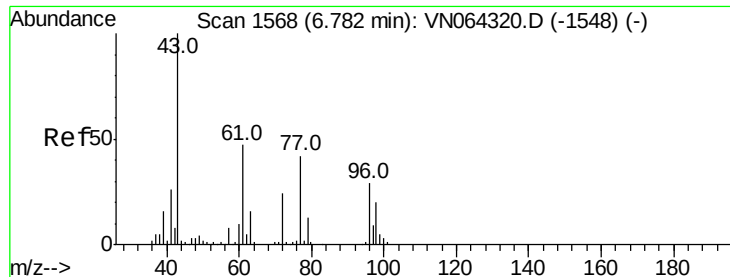
Tot Ion: 43 Resp: 1846
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#20
Methylene Chloride
Concen: 2.026 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN064335.D
Acq: 27 Oct 2020 18:50

Tgt Ion: 84 Resp: 5390
Ion Ratio Lower Upper
84 100
49 157.6 103.6 155.4#
51 40.9 31.8 47.8
86 67.1 51.3 76.9





#25

2-Butanone

Concen: 1.424 ug/l

RT: 6.81 min Scan# 1577

Delta R.T. 0.03 min

Lab File: VN064335.D

Acq: 27 Oct 2020 18:50

Instrument :

MSVOA_N

ClientSampled :

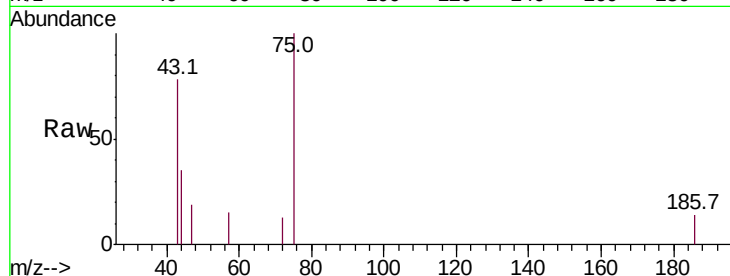
CL-01-102320

Tot Ion: 43 Resp: 2681

Ion Ratio Lower Upper

43 100

72 17.2 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.81

800

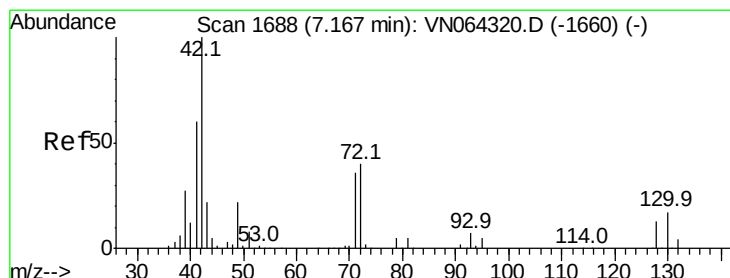
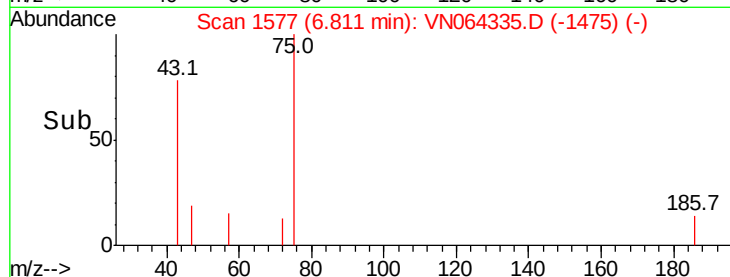
600

400

200

0

Time--> 6.70 6.75 6.80 6.85



#29

Tetrahydrofuran

Concen: 0.533 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN064335.D

Acq: 27 Oct 2020 18:50

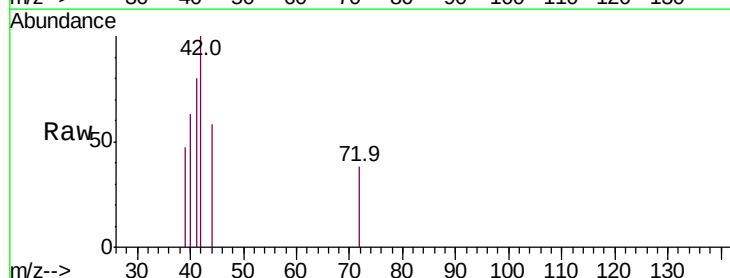
Tgt Ion: 42 Resp: 652

Ion Ratio Lower Upper

42 100

72 23.9 31.6 47.4#

71 0.0 29.4 44.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

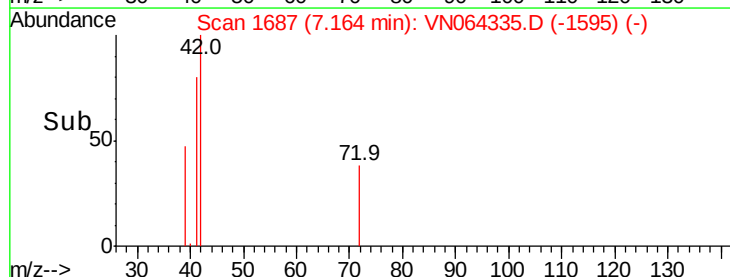
600

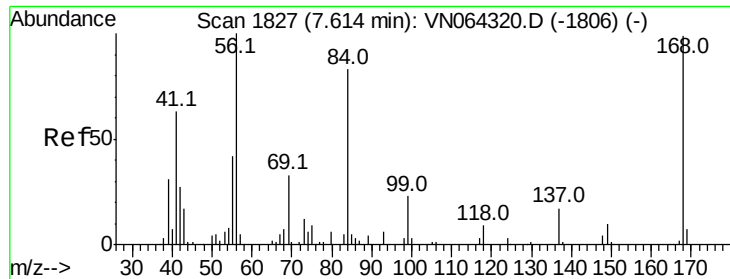
400

200

0

Time--> 7.14 7.16 7.18

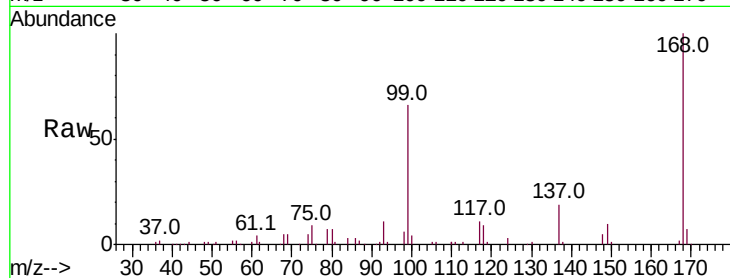




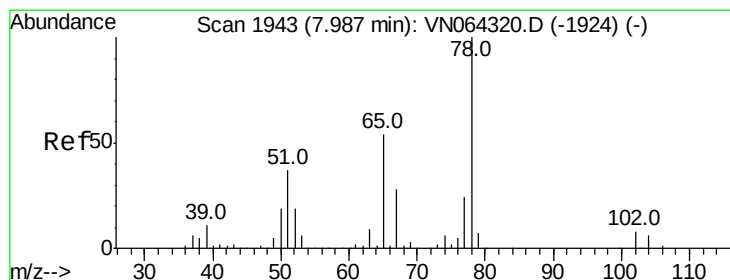
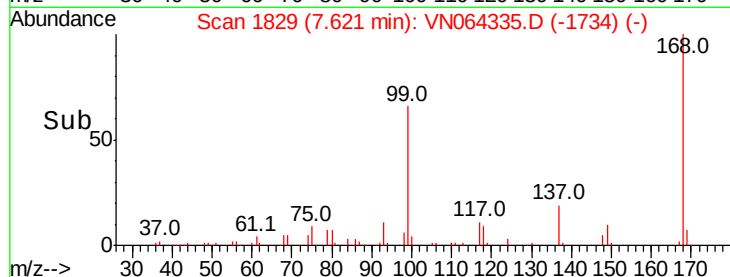
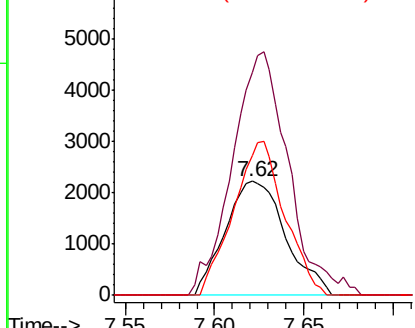
#31
Cyclohexane
Concen: 1.208 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN064335.D
Acq: 27 Oct 2020 18:50

Instrument :
MSVOA_N
ClientSampleId :
CL-01-102320

Tot Ion: 56 Resp: 5260
Ion Ratio Lower Upper
56 100
69 195.3 25.8 38.8#
84 122.5 66.3 99.5#

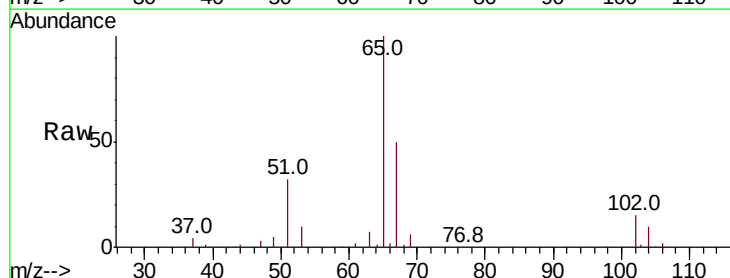


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

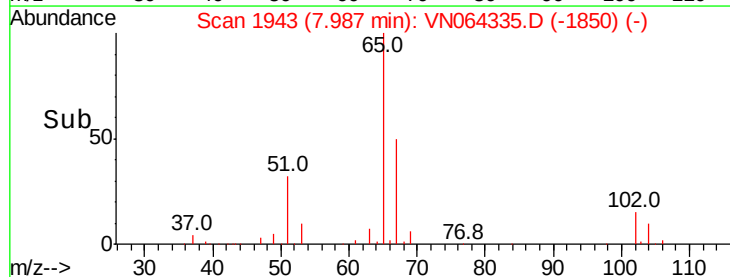
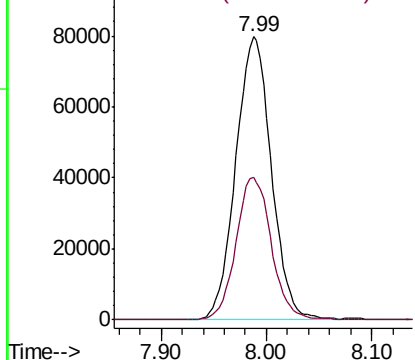


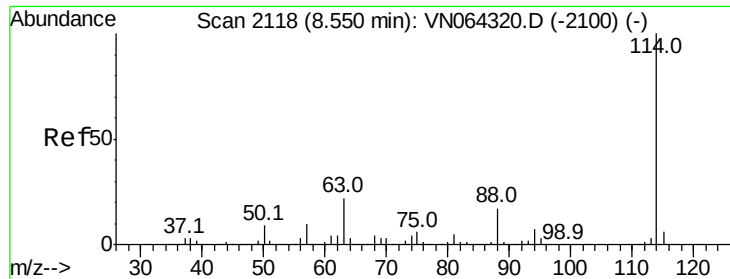
#33
1,2-Dichloroethane-d4
Concen: 49.842 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064335.D
Acq: 27 Oct 2020 18:50

Tgt Ion: 65 Resp: 186936
Ion Ratio Lower Upper
65 100
67 49.8 0.0 99.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

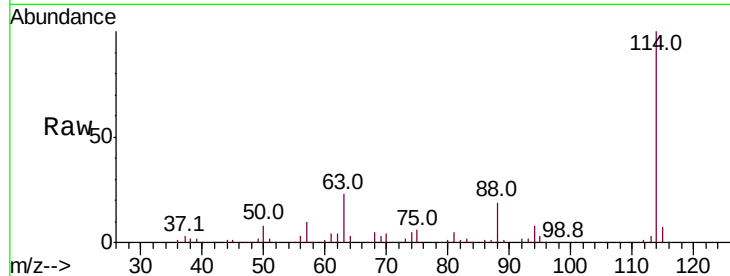




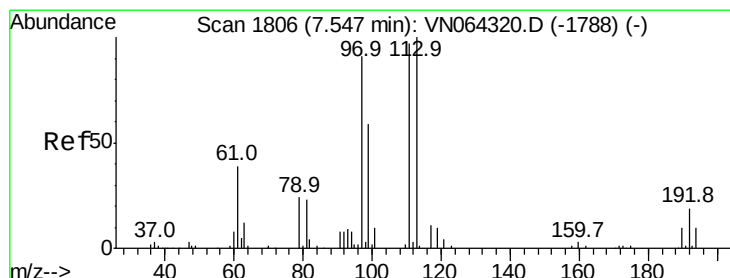
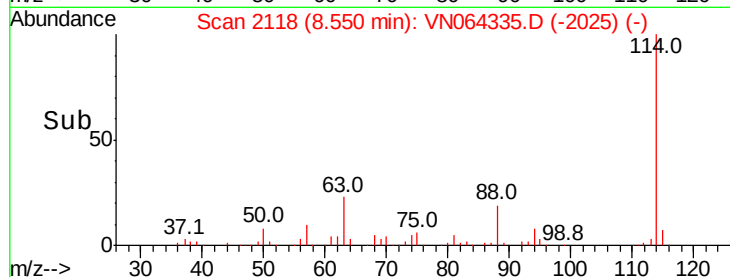
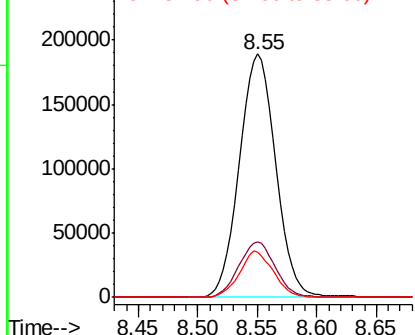
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064335.D
 Acq: 27 Oct 2020 18:50

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Tot Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	44.6
88	18.5	0.0	33.4

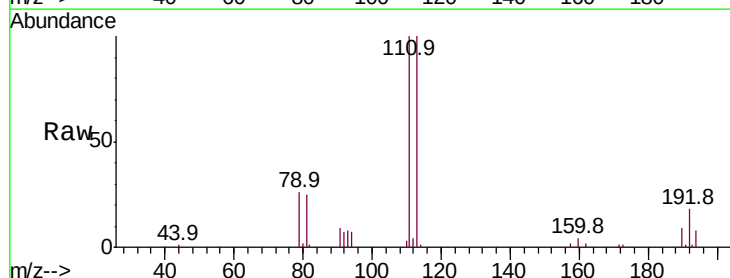


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

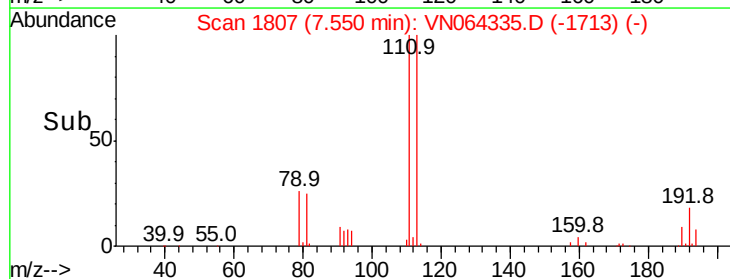
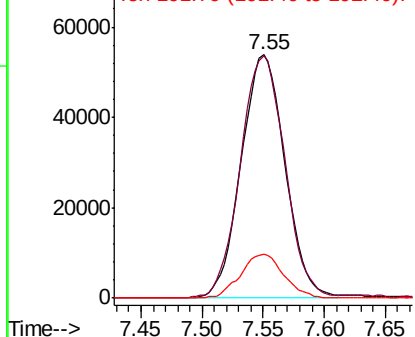


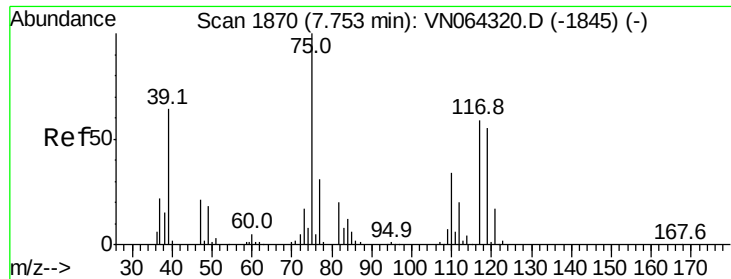
#35
 Dibromofluoromethane
 Concen: 50.128 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064335.D
 Acq: 27 Oct 2020 18:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.5	122.3
192	17.8	15.0	22.4



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

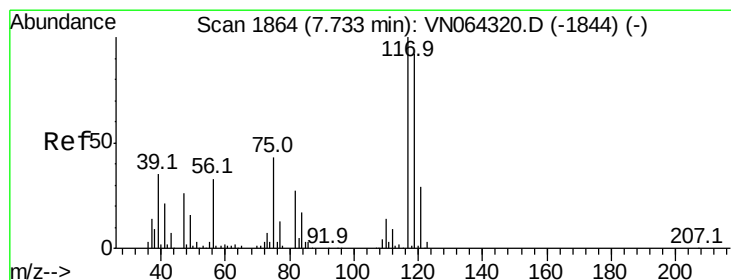
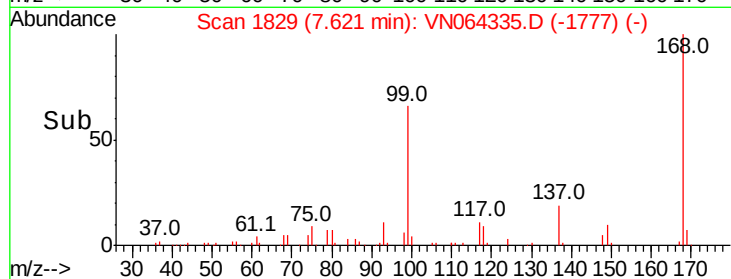
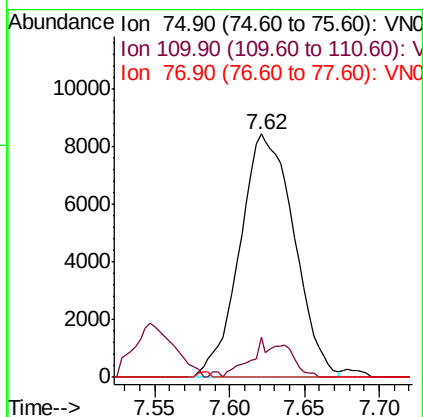
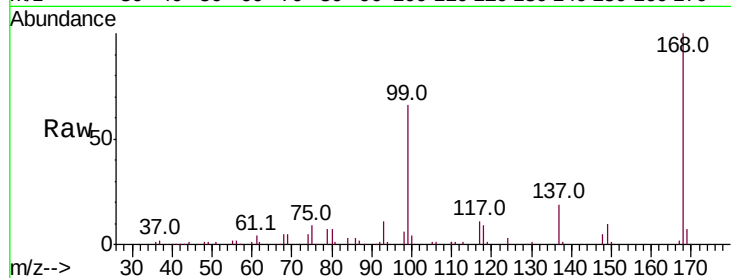




#36
 1,1-Dichloropropene
 Concen: 5.275 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN064335.D
 Acq: 27 Oct 2020 18:50

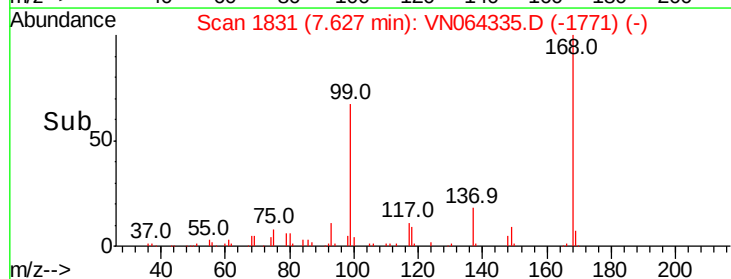
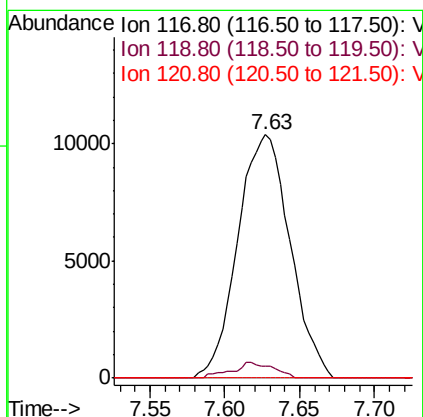
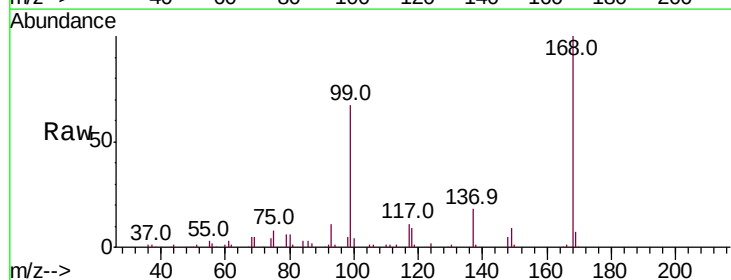
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-102320

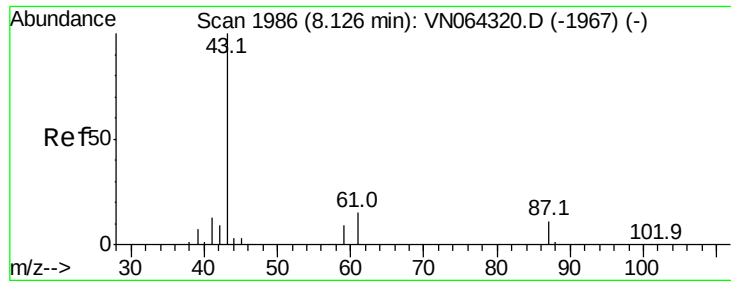
Tot Ion: 75 Resp: 21337
 Ion Ratio Lower Upper
 75 100
 110 5.7 16.8 50.3#
 77 0.0 24.2 36.4#



#38
 Carbon Tetrachloride
 Concen: 5.372 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064335.D
 Acq: 27 Oct 2020 18:50

Tgt Ion: 117 Resp: 25194
 Ion Ratio Lower Upper
 117 100
 119 4.8 73.7 110.5#
 121 0.0 22.8 34.2#





#43

Isopropyl Acetate

Concen: 7.316 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064335.D

Acq: 27 Oct 2020 18:50

Instrument :

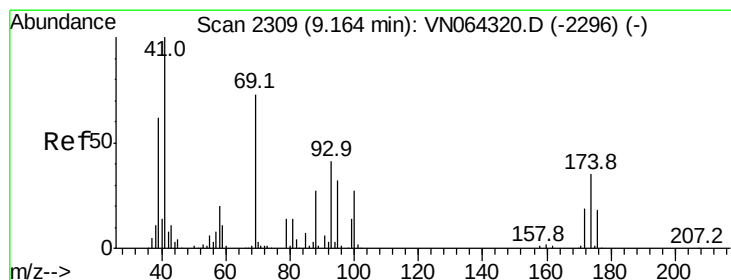
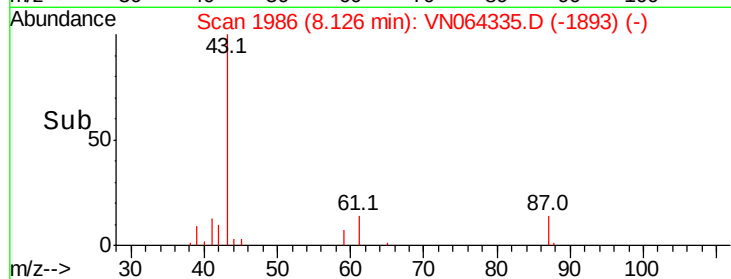
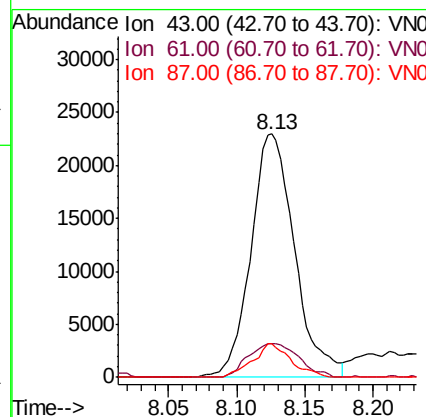
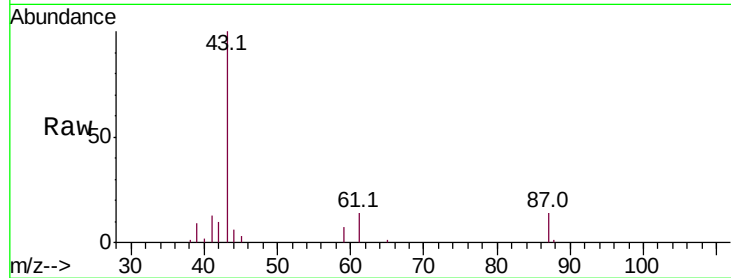
MSVOA_N

ClientSampleId :

CL-01-102320

Tot Ion: 43 Resp: 51100

Ion	Ratio	Lower	Upper
43	100		
61	16.0	19.1	28.7#
87	12.1	9.3	13.9



#48

Methyl methacrylate

Concen: 1.350 ug/l

RT: 9.15 min Scan# 2304

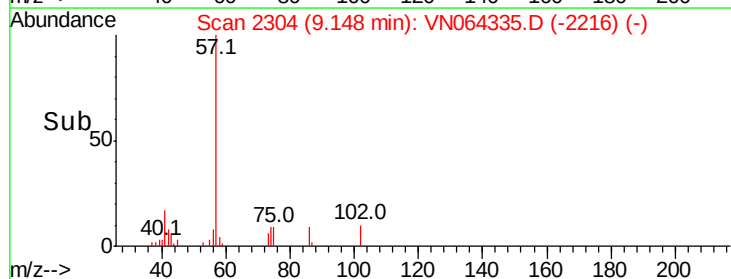
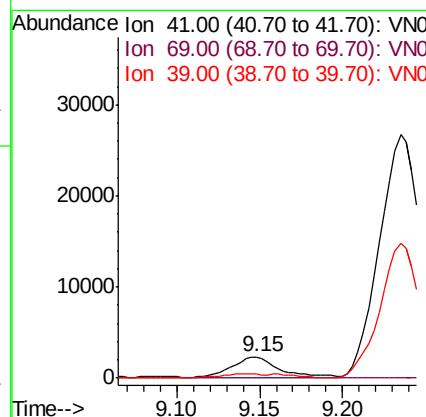
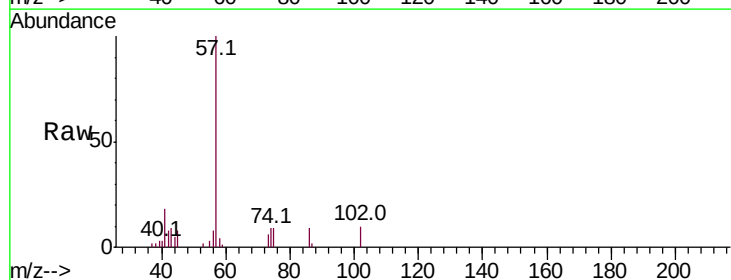
Delta R.T. -0.02 min

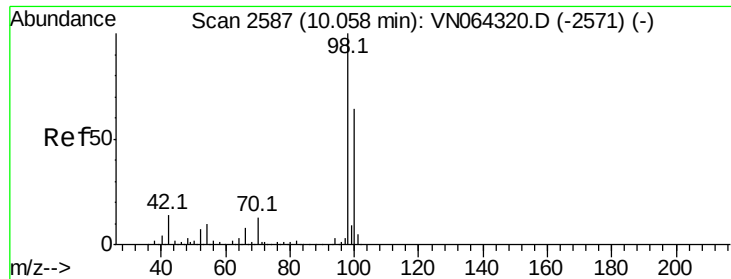
Lab File: VN064335.D

Acq: 27 Oct 2020 18:50

Tgt Ion: 41 Resp: 4865

Ion	Ratio	Lower	Upper
41	100		
69	0.0	59.1	88.7#
39	16.4	51.3	76.9#

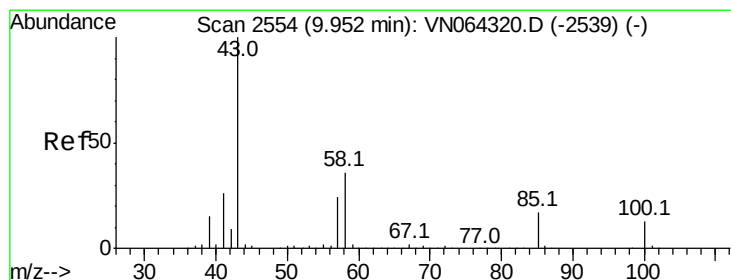
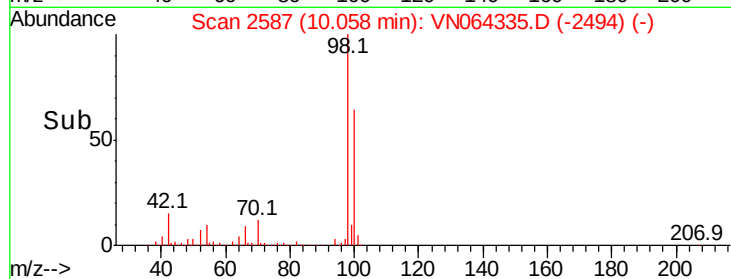
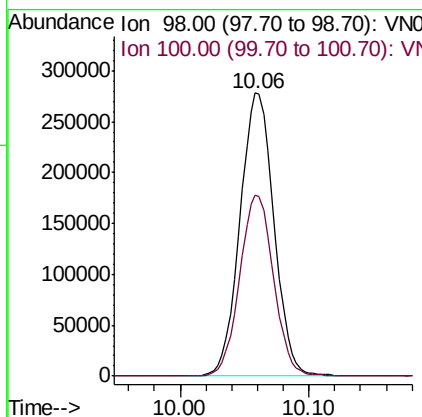
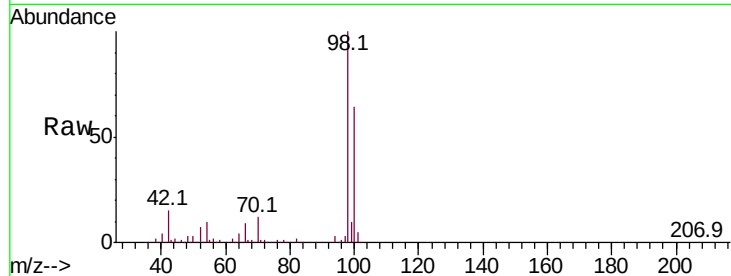




#50
Toluene-d8
Concen: 51.524 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064335.D
Acq: 27 Oct 2020 18:50

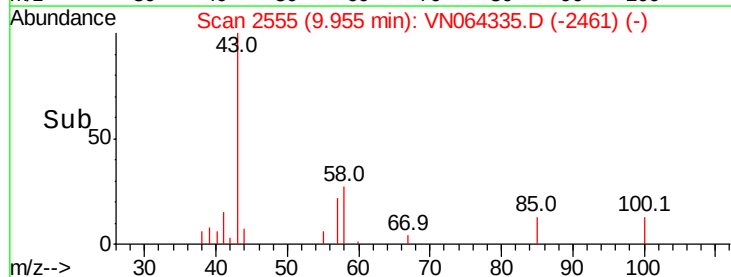
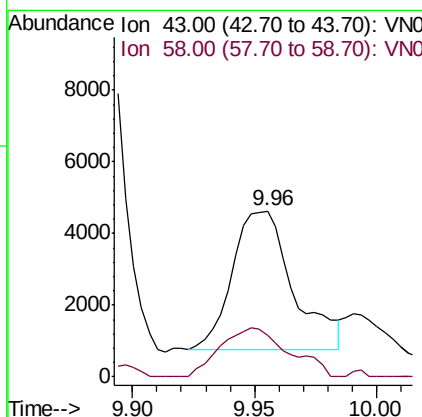
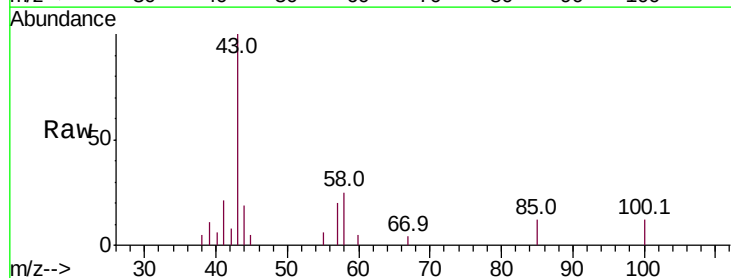
Instrument :
MSVOA_N
ClientSampleId :
CL-01-102320

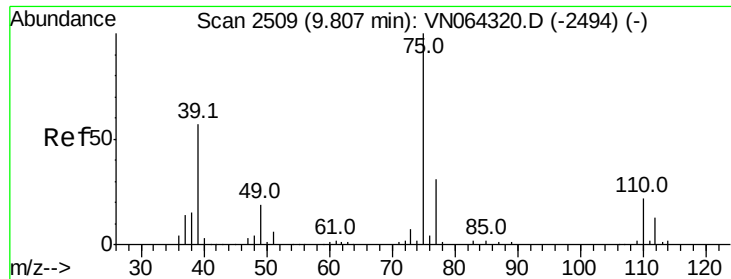
Tot Ion: 98 Resp: 509390
Ion Ratio Lower Upper
98 100
100 63.9 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 1.630 ug/l
RT: 9.96 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN064335.D
Acq: 27 Oct 2020 18:50

Tgt Ion: 43 Resp: 6618
Ion Ratio Lower Upper
43 100
58 40.1 28.6 42.8





#54

cis-1,3-Dichloropropene

Concen: 4.756 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064335.D

Acq: 27 Oct 2020 18:50

Instrument :

MSVOA_N

ClientSampleId :

CL-01-102320

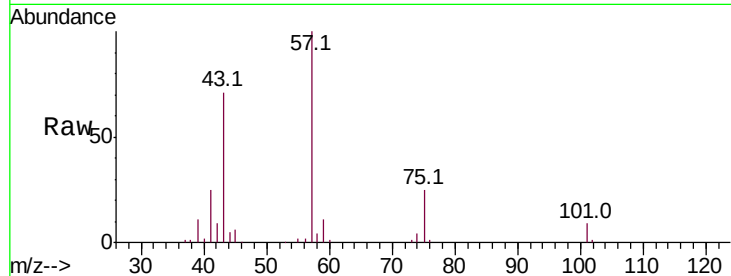
Tot Ion: 75 Resp: 24196

Ion Ratio Lower Upper

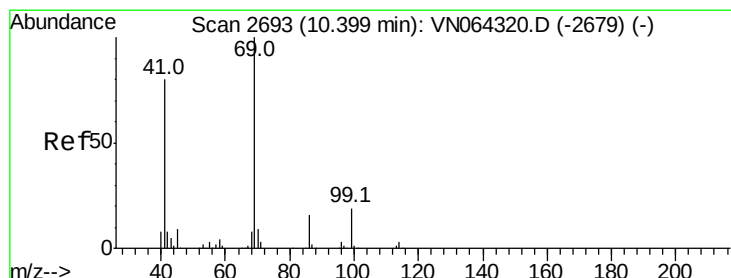
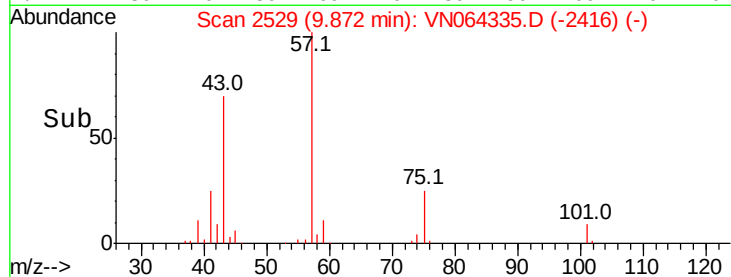
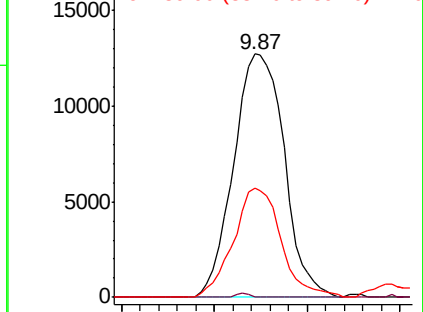
75 100

77 0.0 25.0 37.4#

39 45.1 45.5 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#56

Ethyl methacrylate

Concen: 0.337 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN064335.D

Acq: 27 Oct 2020 18:50

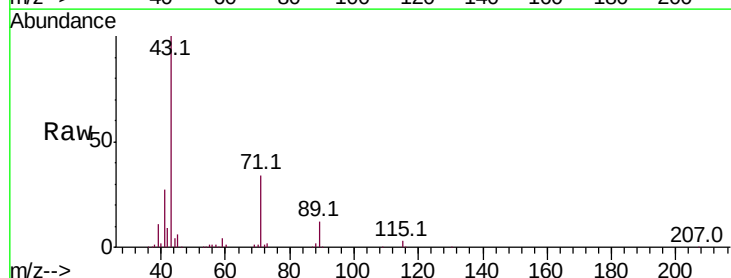
Tgt Ion: 69 Resp: 1432

Ion Ratio Lower Upper

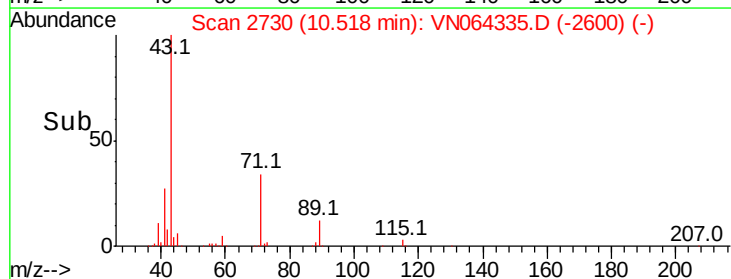
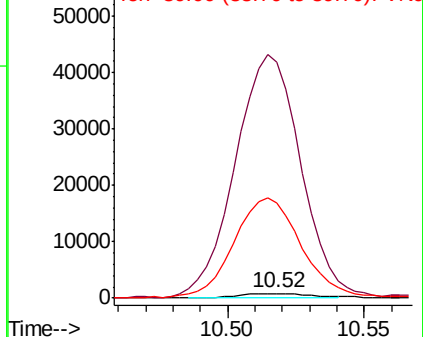
69 100

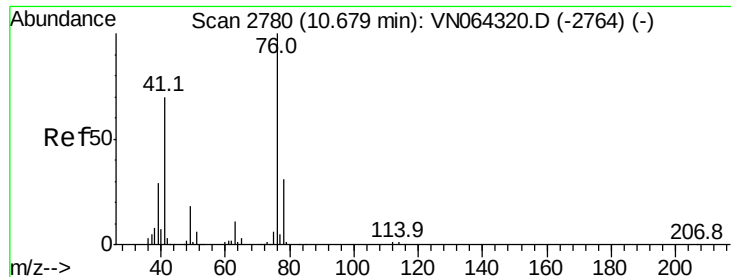
41 5020.9 61.4 92.2#

39 2152.7 36.5 54.7#



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





#57

1,3-Dichloropropane

Concen: 0.597 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064335.D

Acq: 27 Oct 2020 18:50

Instrument :

MSVOA_N

ClientSampleId :

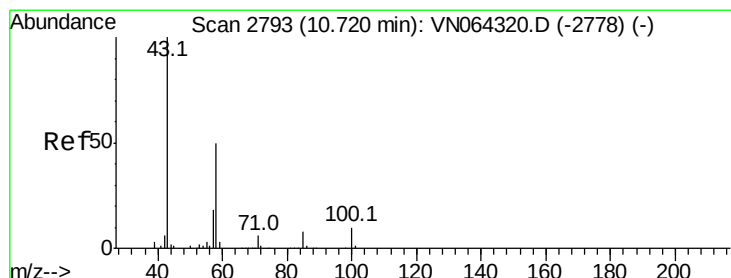
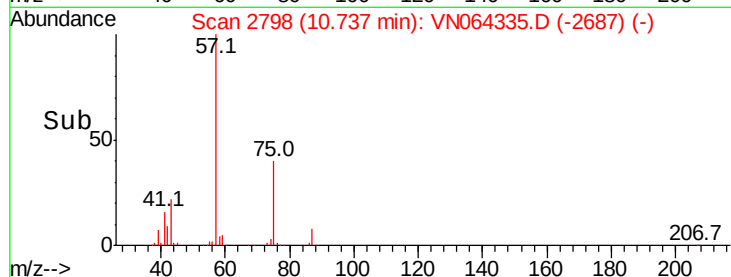
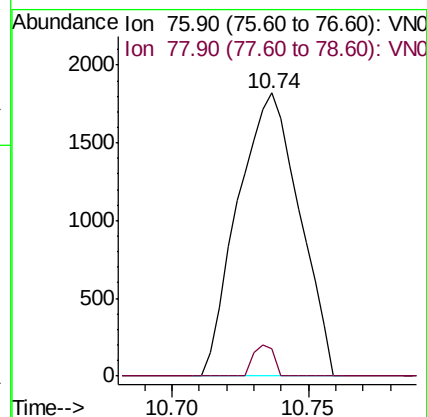
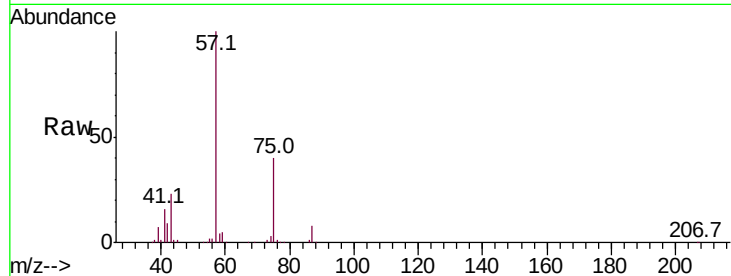
CL-01-102320

Tot Ion: 76 Resp: 2855

Ion Ratio Lower Upper

76 100

78 3.6 25.8 38.6#



#59

2-Hexanone

Concen: 15.993 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064335.D

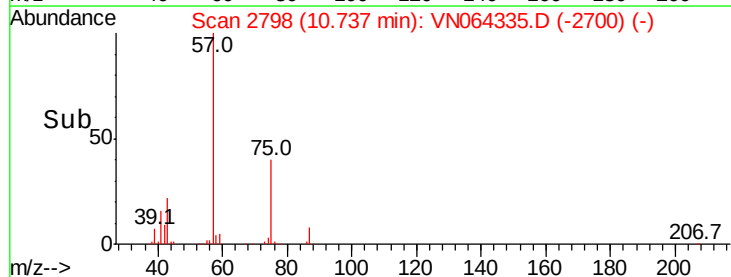
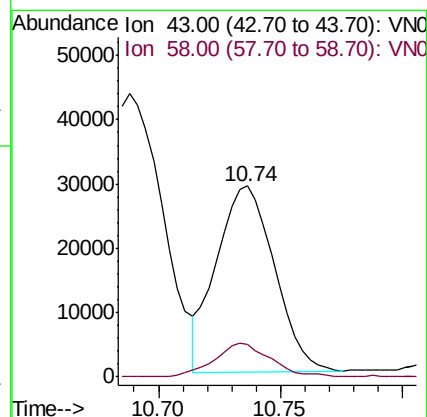
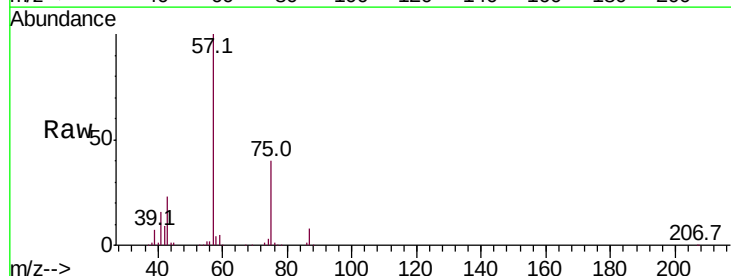
Acq: 27 Oct 2020 18:50

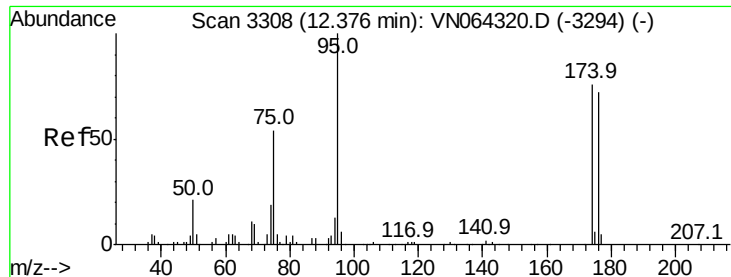
Tgt Ion: 43 Resp: 47822

Ion Ratio Lower Upper

43 100

58 17.6 25.0 75.0#

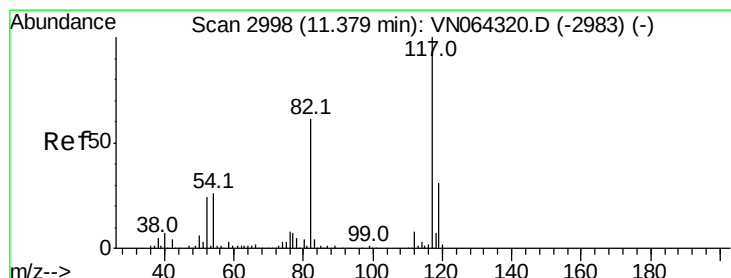
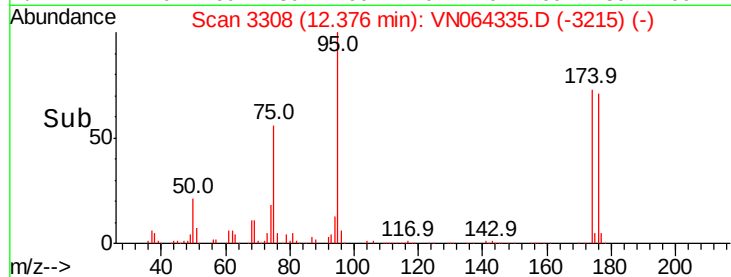
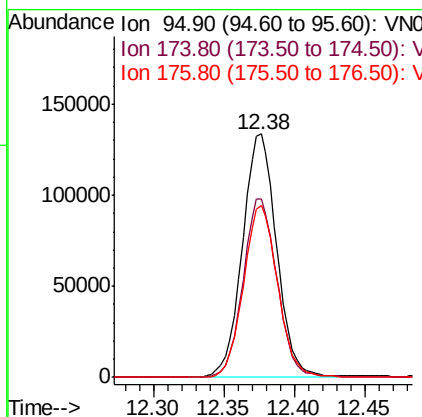
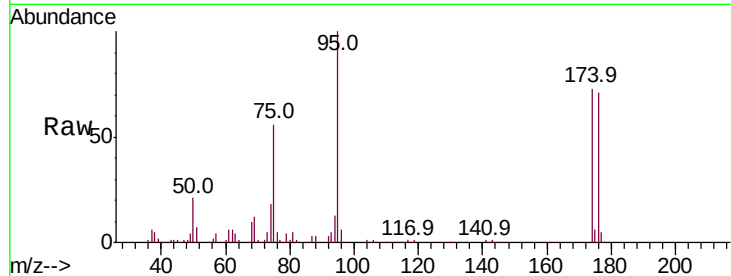




#62
4-Bromofluorobenzene
Concen: 58.939 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064335.D
Acq: 27 Oct 2020 18:50

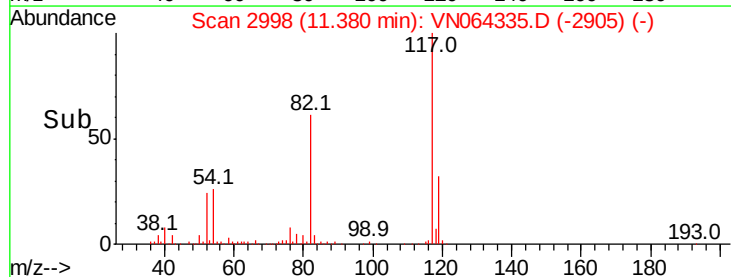
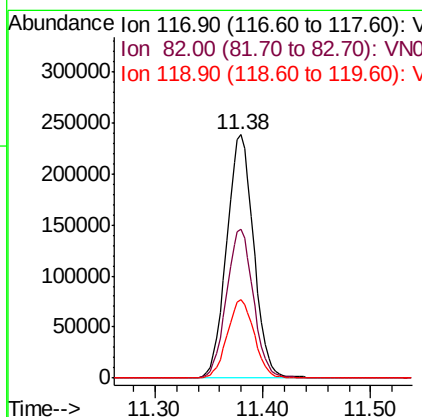
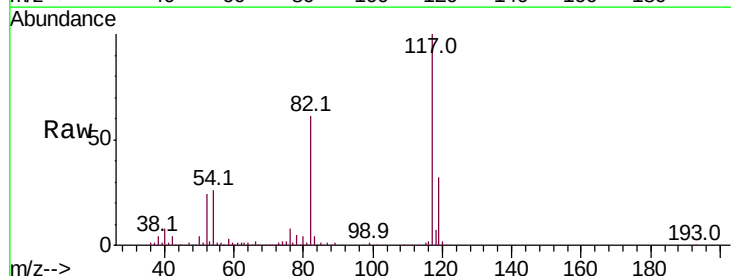
Instrument :
MSVOA_N
ClientSampleId :
CL-01-102320

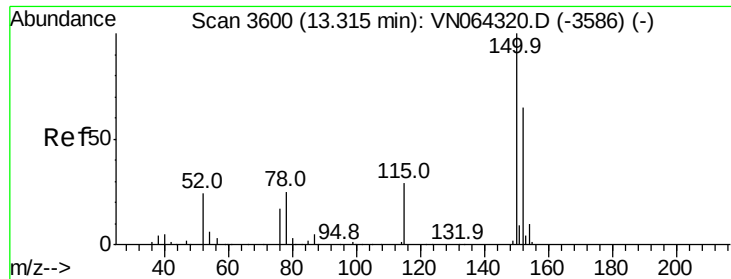
Tot Ion	95	Resp	227186
Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	147.4
176	70.6	0.0	143.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064335.D
Acq: 27 Oct 2020 18:50

Tgt Ion	117	Resp	416587
Ion	Ratio	Lower	Upper
117	100		
82	61.3	48.8	73.2
119	32.1	25.1	37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN064335.D

Acq: 27 Oct 2020 18:50

Instrument :

MSVOA_N

ClientSampleId :

CL-01-102320

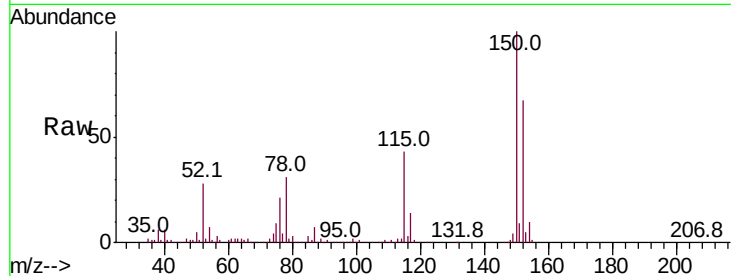
Tot Ion:152 Resp: 186273

Ion Ratio Lower Upper

152 100

115 64.0 31.5 94.5

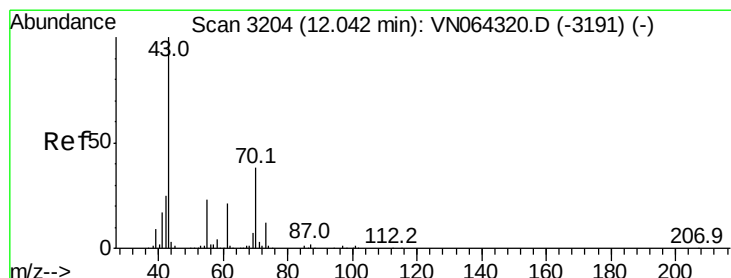
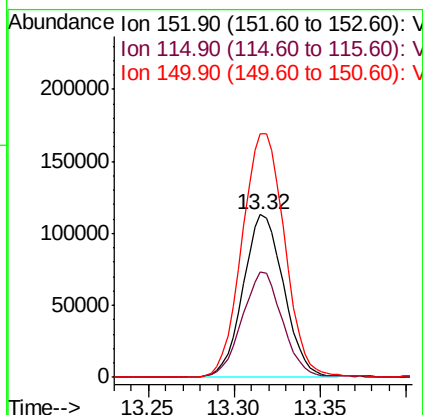
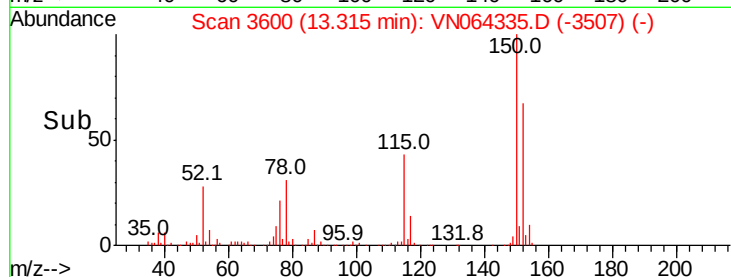
150 157.2 0.0 346.2



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: 0.308 ug/l

RT: 12.03 min Scan# 3201

Delta R.T. -0.01 min

Lab File: VN064335.D

Acq: 27 Oct 2020 18:50

Tgt Ion: 43 Resp: 1890

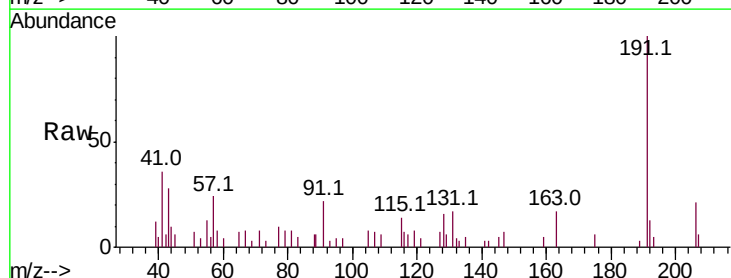
Ion Ratio Lower Upper

43 100

70 4.0 30.6 45.8#

55 6.4 18.2 27.4#

61 0.0 17.6 26.4#

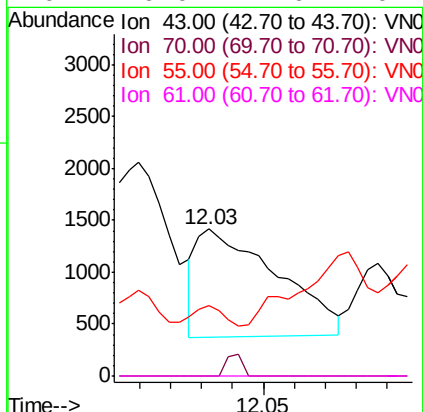
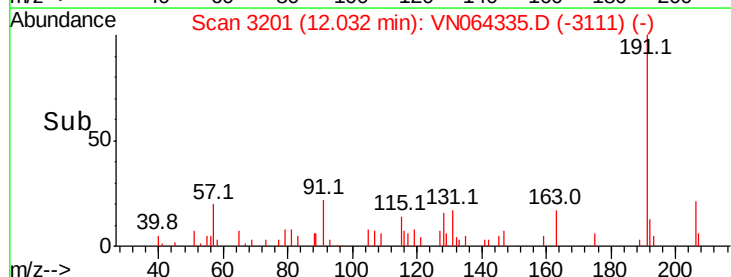


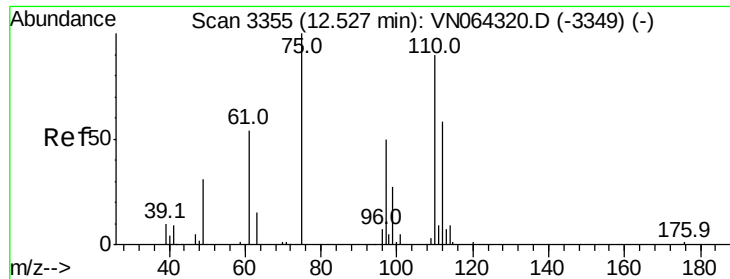
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

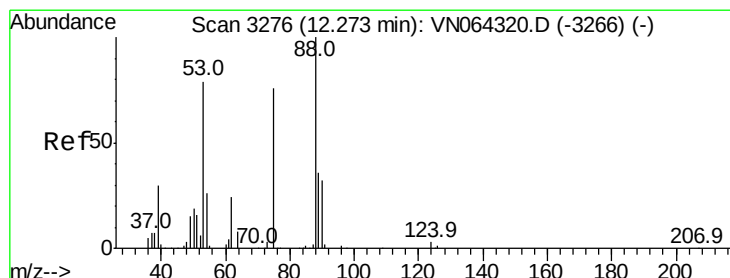
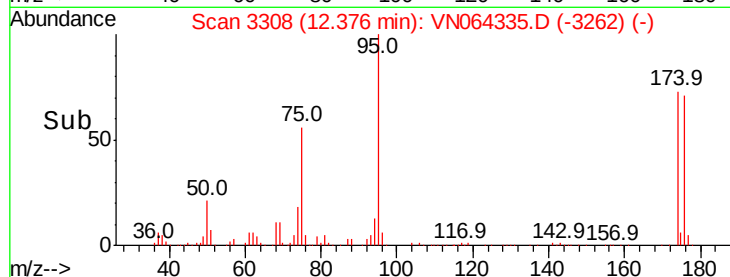
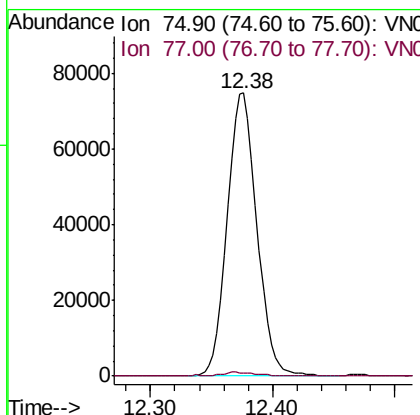
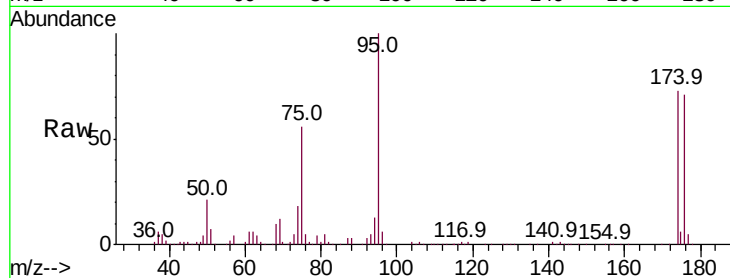




#76
 1,2,3-Trichloropropane
 Concen: 28.522 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN064335.D
 Acq: 27 Oct 2020 18:50

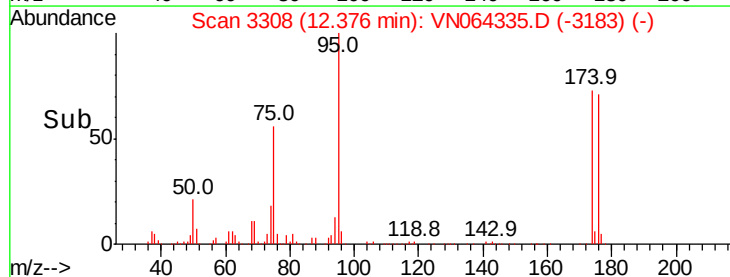
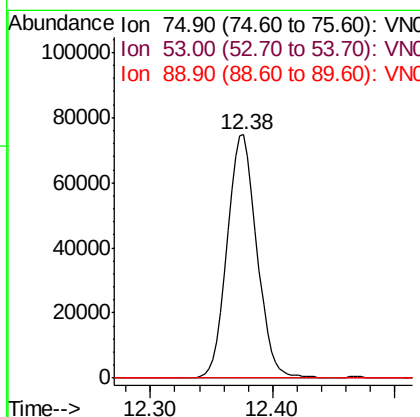
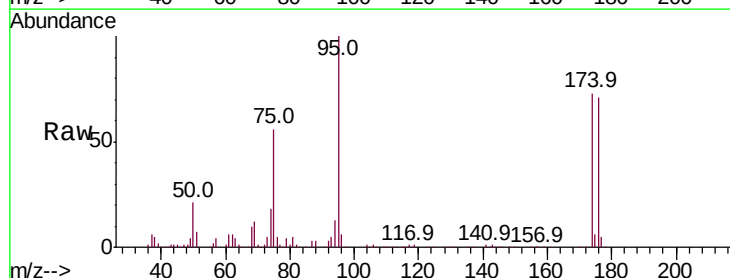
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-102320

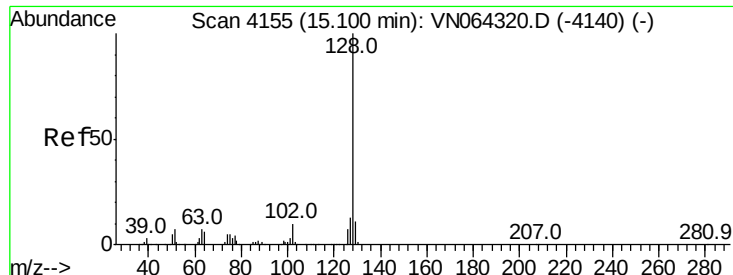
Tot Ion: 75 Resp: 127231
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 82.160 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064335.D
 Acq: 27 Oct 2020 18:50

Tgt Ion: 75 Resp: 127231
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.8 122.8#
 89 0.1 39.9 59.9#





#95

Naphthalene

Concen: 2.411 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064335.D

Acq: 27 Oct 2020 18:50

Instrument :

MSVOA_N

ClientSampleId :

CL-01-102320

Tot Ion:128 Resp: 210

Ion Ratio Lower Upper

128 100

127 33.3 10.4 15.6#

129 101.9 8.6 13.0#

