

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062620\
 Data File : VN062175.D
 Acq On : 27 Jun 2020 6:17
 Operator : JC/MD
 Sample : L2810-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-062420

Quant Time: Jun 27 06:56:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	196585	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	386227	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	392668	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	151063	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	149121	54.05	ug/l	0.00
Spiked Amount 50.000			Recovery =	108.10%		
35) Dibromofluoromethane	7.55	113	121392	48.99	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.98%		
50) Toluene-d8	10.06	98	501137	50.60	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.20%		
62) 4-Bromofluorobenzene	12.38	95	171257	51.18	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.36%		

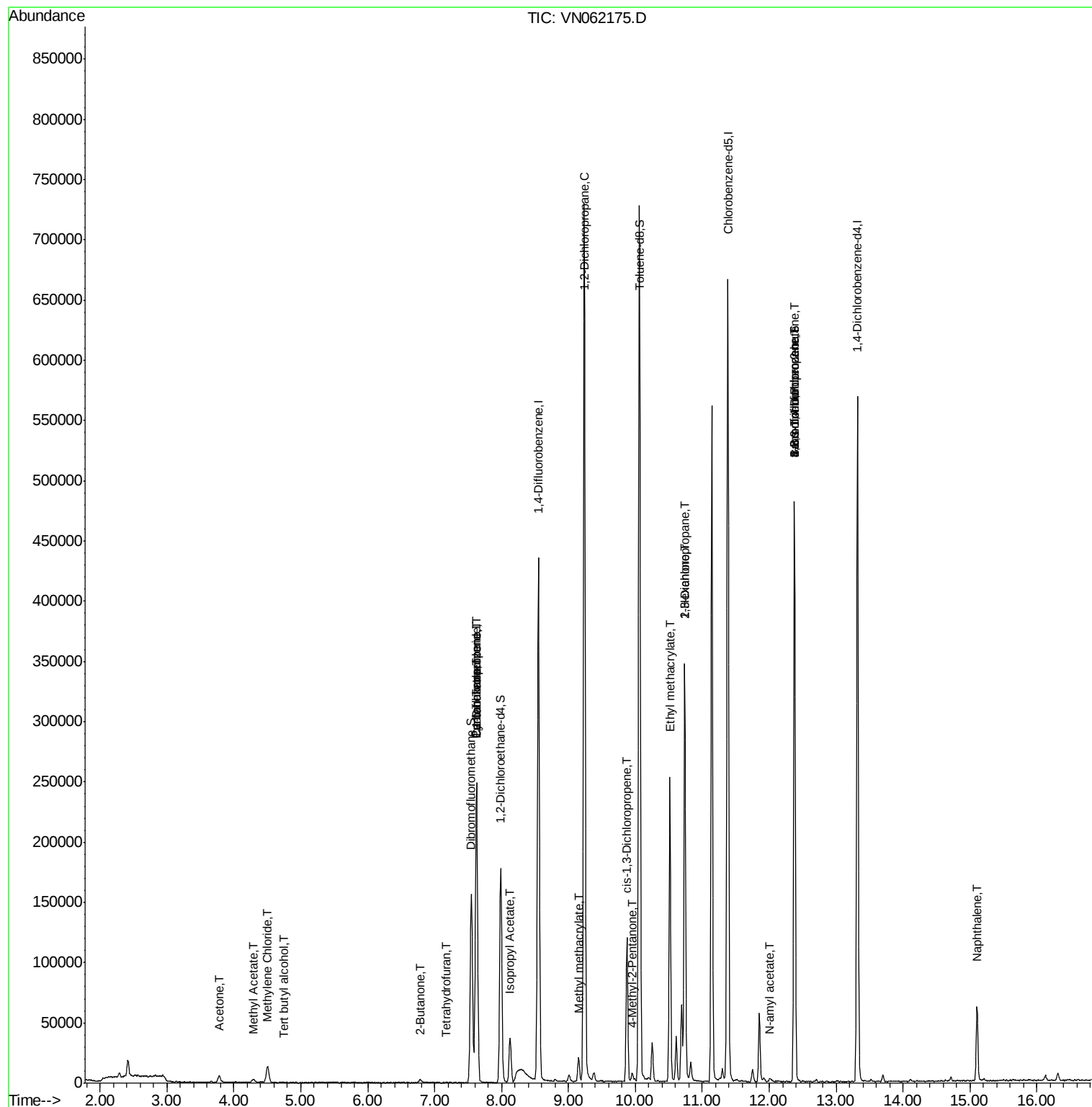
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.02	50	311	Below Cal	#	41
11) Tert butyl alcohol	4.73	59	220	0.555	ug/l #	72
16) Acetone	3.79	43	10156	7.804	ug/l	91
18) Methyl Acetate	4.29	43	5932	2.705	ug/l #	59
20) Methylene Chloride	4.50	84	10606	3.988	ug/l #	90
25) 2-Butanone	6.79	43	1549	1.149	ug/l #	80
29) Tetrahydrofuran	7.17	42	336	0.380	ug/l #	28
31) Cyclohexane	7.63	56	4553	1.195	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	16250	4.186	ug/l #	49
38) Carbon Tetrachloride	7.62	117	20633	5.637	ug/l #	15
43) Isopropyl Acetate	8.13	43	42460	8.102	ug/l	99
45) 1,2-Dichloropropane	9.24	63	974	0.334	ug/l #	43
48) Methyl methacrylate	9.15	41	2649	1.127	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	4746	1.550	ug/l #	73
54) cis-1,3-Dichloropropene	9.88	75	22291	4.762	ug/l #	62
56) Ethyl methacrylate	10.52	69	1193	0.315	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3881	0.794	ug/l #	42
59) 2-Hexanone	10.74	43	45214	20.451	ug/l #	53
71) Bromoform	12.38	173	1488	0.702	ug/l #	1
74) N-amyl acetate	12.01	43	1721	3.716	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	87567	24.624	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	87567	71.912	ug/l #	13
95) Naphthalene	15.10	128	55104	11.036	ug/l	98

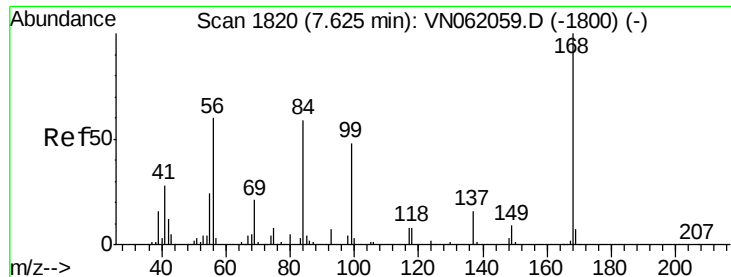
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062175.D

Acq: 27 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

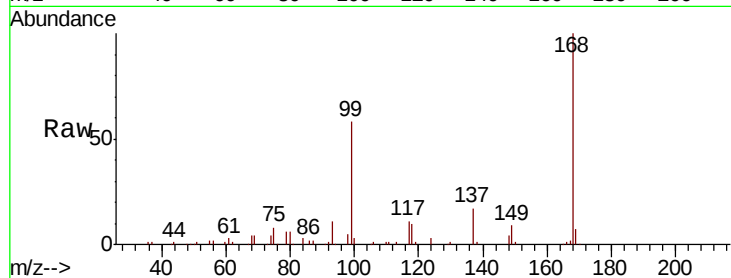
CL-01-062420

Tot Ion:168 Resp: 196585

Ion Ratio Lower Upper

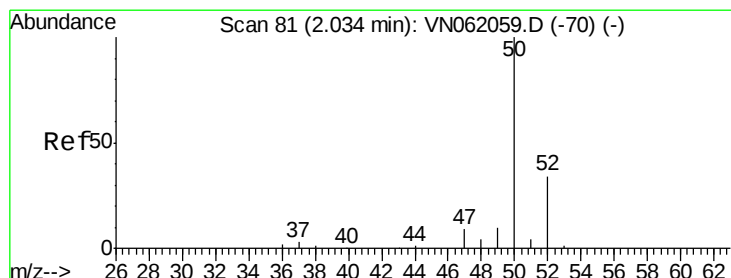
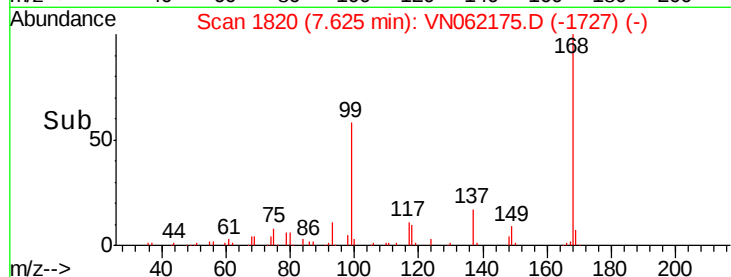
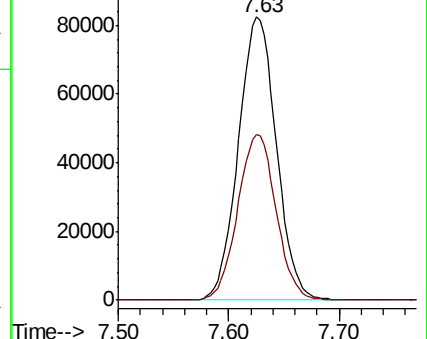
168 100

99 58.3 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.02 min Scan# 78

Delta R.T. -0.01 min

Lab File: VN062175.D

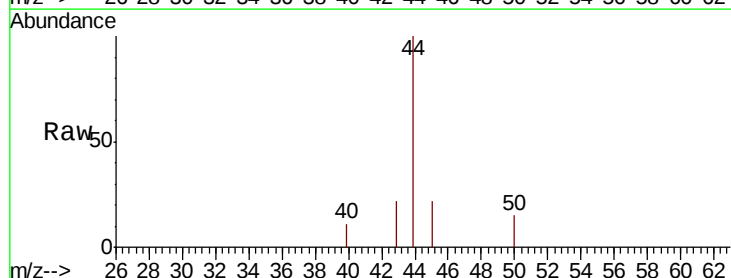
Acq: 27 Jun 2020 6:17

Tgt Ion: 50 Resp: 311

Ion Ratio Lower Upper

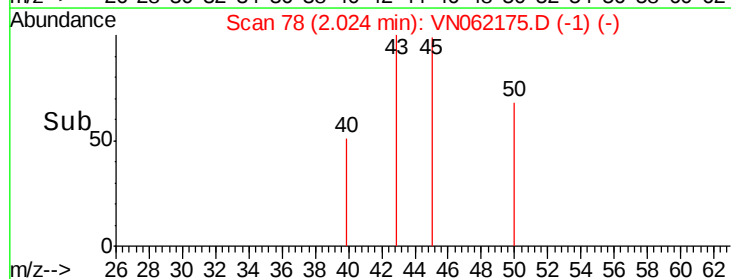
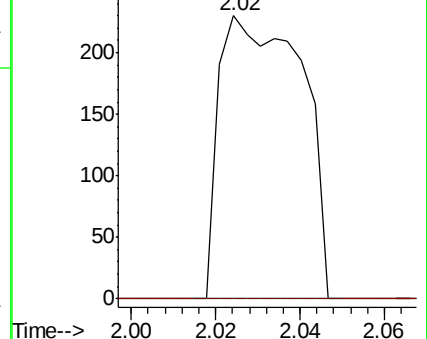
50 100

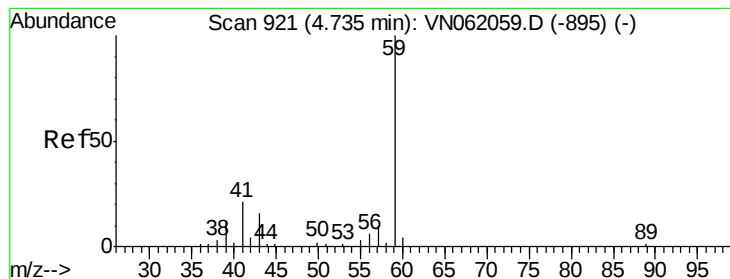
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#11

Tert butyl alcohol

Concen: 0.555 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.00 min

Lab File: VN062175.D

Acq: 27 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

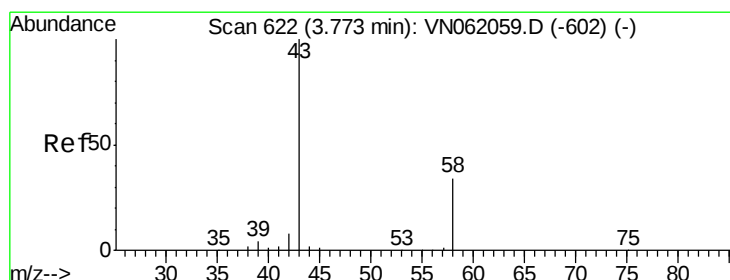
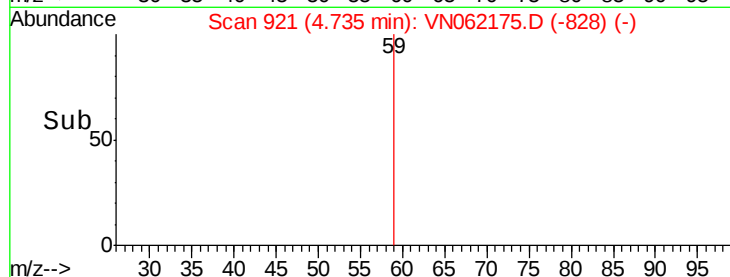
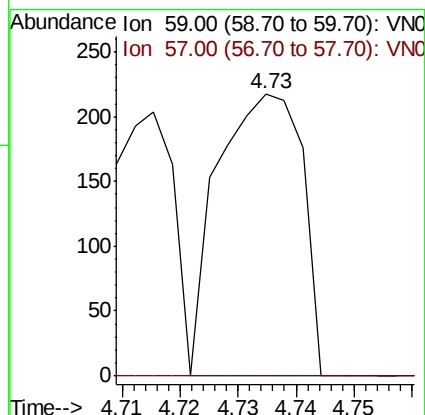
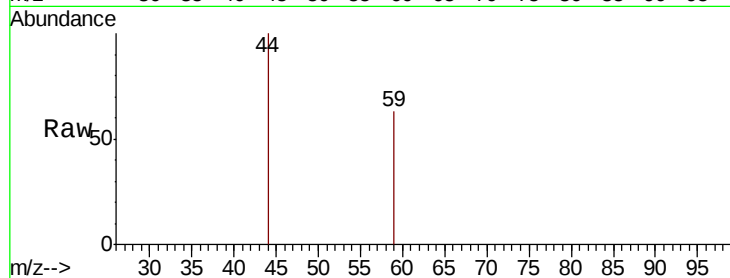
CL-01-062420

Tot Ion: 59 Resp: 220

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#16

Acetone

Concen: 7.804 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN062175.D

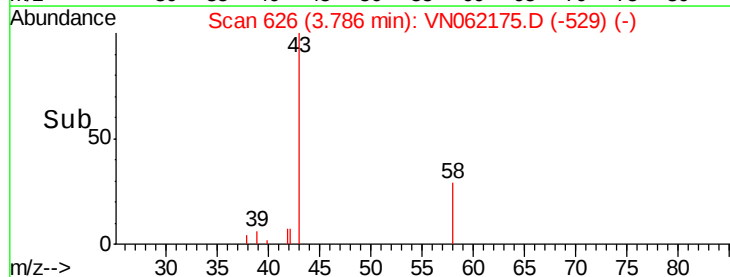
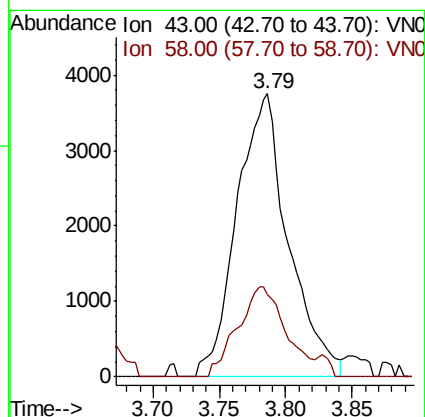
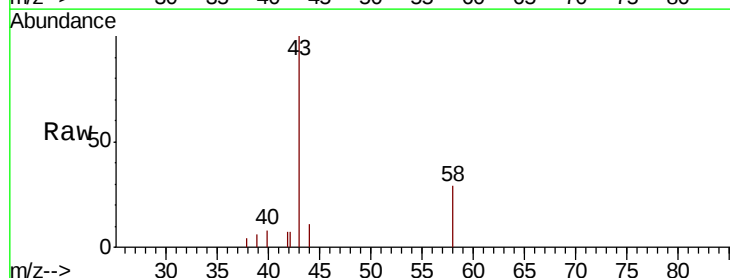
Acq: 27 Jun 2020 6:17

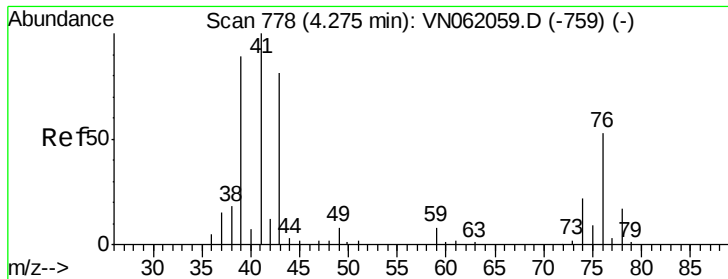
Tgt Ion: 43 Resp: 10156

Ion Ratio Lower Upper

43 100

58 29.0 27.5 41.3

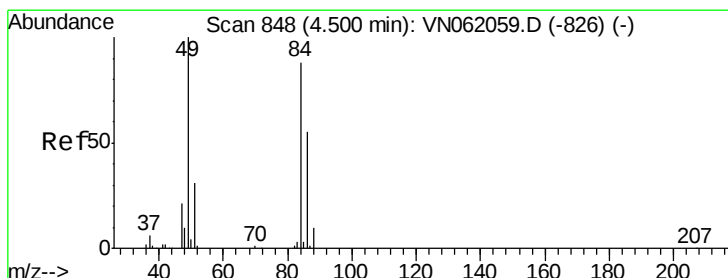
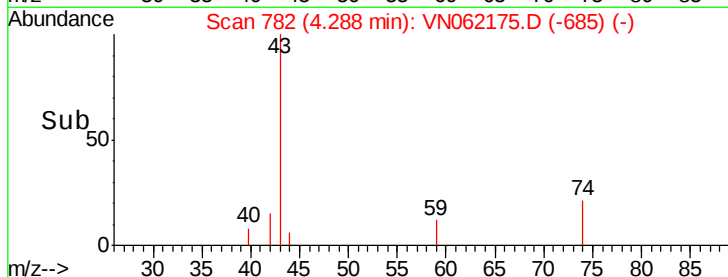
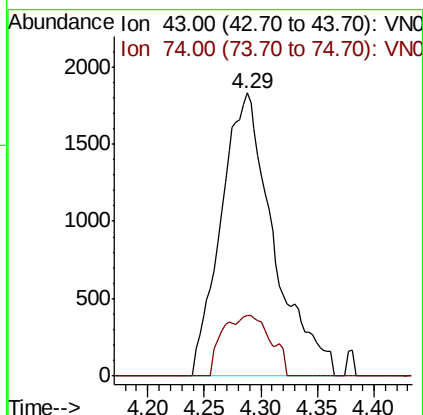
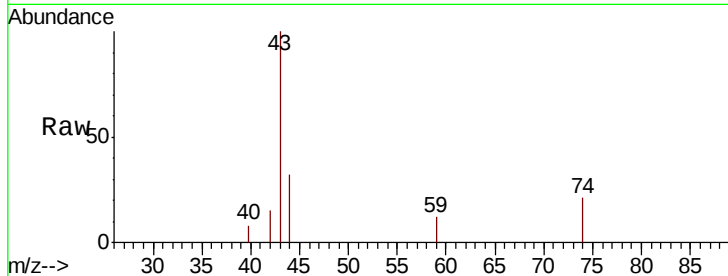




#18
Methvl Acetate
Concen: 2.705 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN062175.D
Acq: 27 Jun 2020 6:17

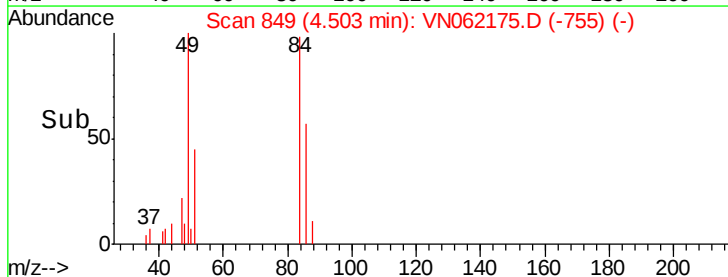
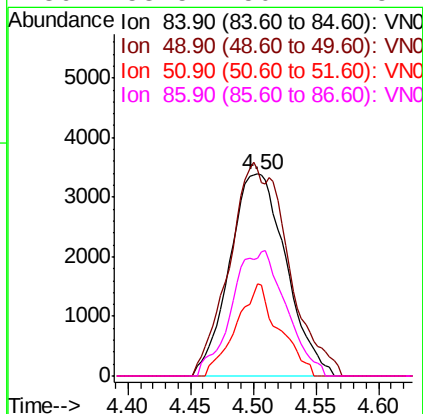
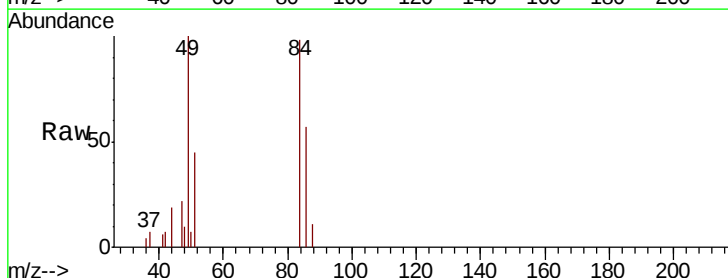
Instrument :
MSVOA_N
ClientSampleId :
CL-01-062420

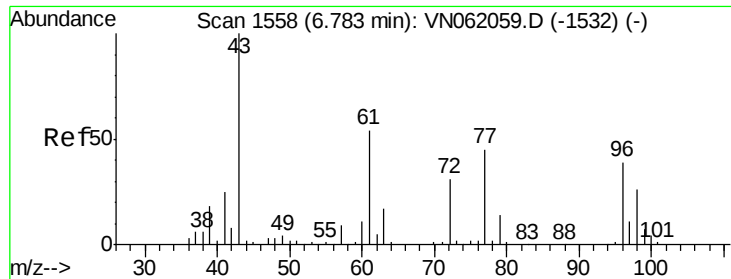
Tot Ion: 43 Resp: 5932
Ion Ratio Lower Upper
43 100
74 6.7 22.9 34.3#



#20
Methylene Chloride
Concen: 3.988 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062175.D
Acq: 27 Jun 2020 6:17

Tgt Ion: 84 Resp: 10606
Ion Ratio Lower Upper
84 100
49 102.0 90.6 136.0
51 45.9 27.8 41.8#
86 58.5 50.1 75.1

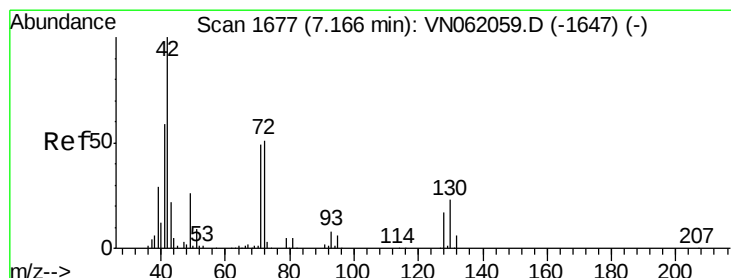
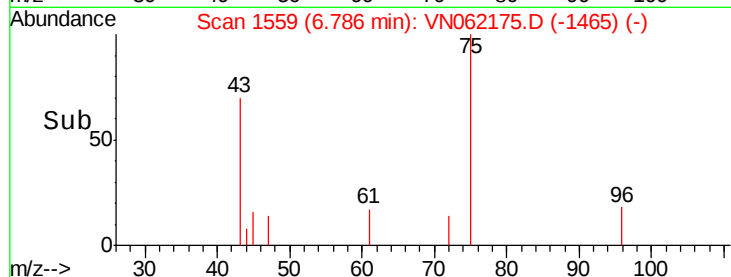
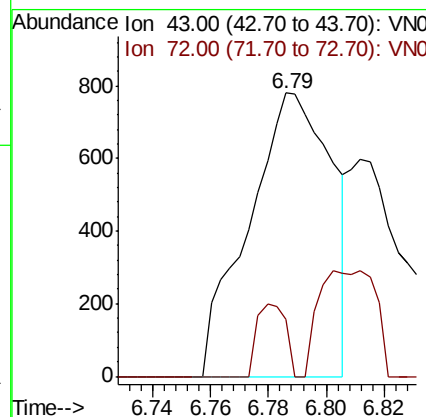
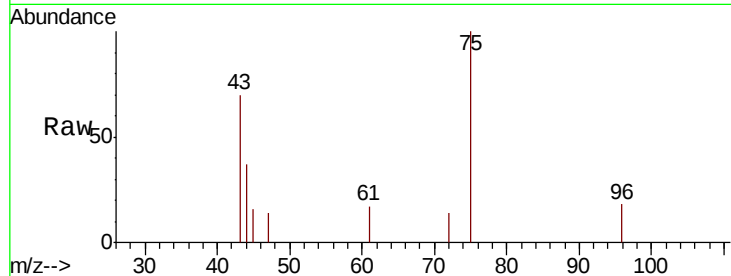




#25
2-Butanone
Concen: 1.149 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VN062175.D
Acq: 27 Jun 2020 6:17

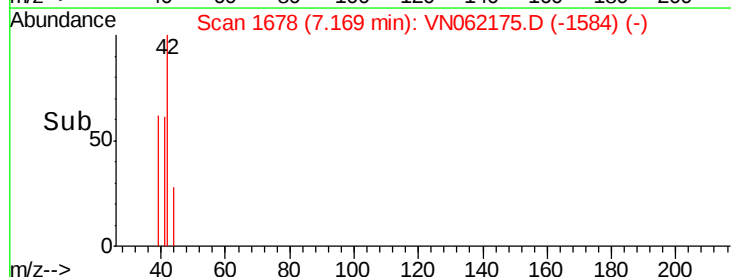
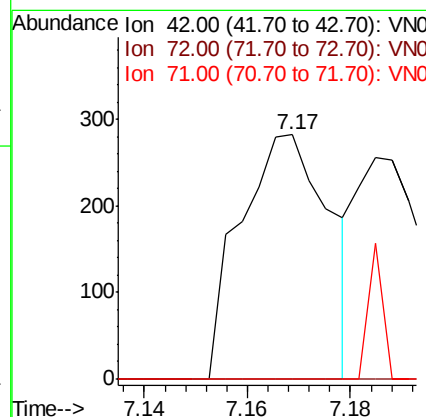
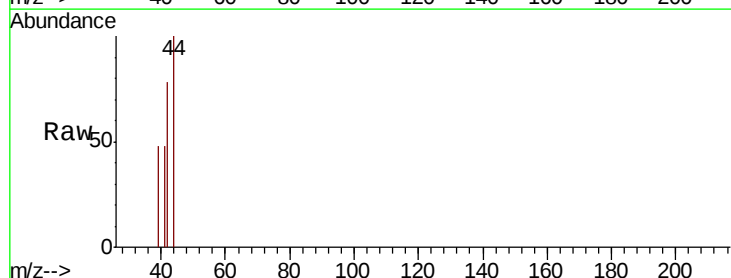
Instrument :
MSVOA_N
ClientSampleId :
CL-01-062420

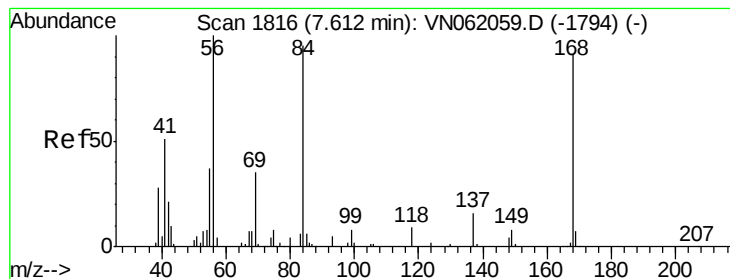
Tot Ion: 43 Resp: 1549
Ion Ratio Lower Upper
43 100
72 20.1 24.8 37.2#



#29
Tetrahydrofuran
Concen: 0.380 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN062175.D
Acq: 27 Jun 2020 6:17

Tgt Ion: 42 Resp: 336
Ion Ratio Lower Upper
42 100
72 0.0 41.1 61.7#
71 0.0 38.2 57.4#





#31

Cvclohexane

Concen: 1.195 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

Lab File: VN062175.D

Acq: 27 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

CL-01-062420

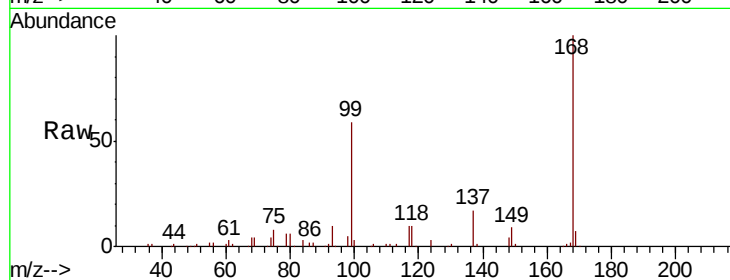
Tot Ion: 56 Resp: 4553

Ion Ratio Lower Upper

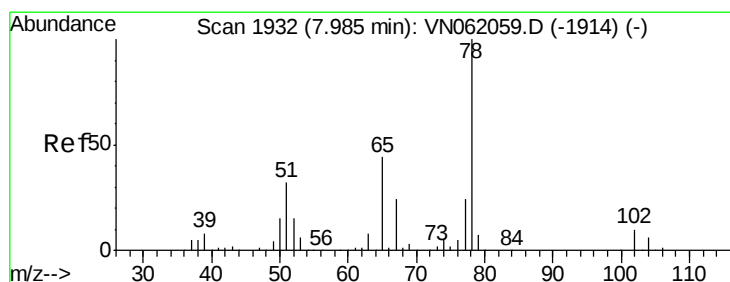
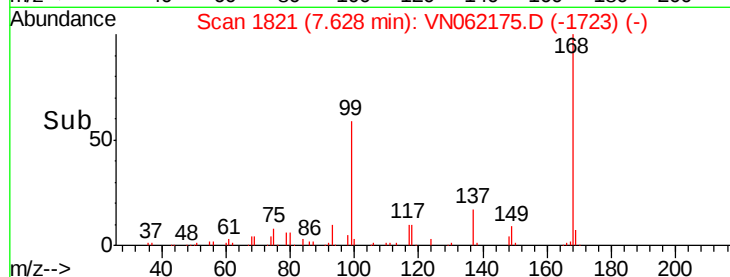
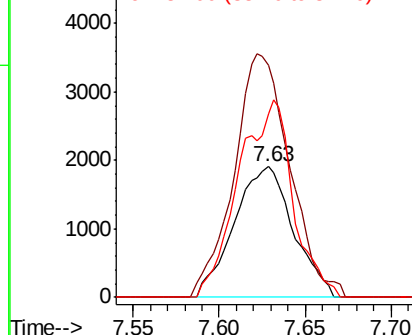
56 100

69 177.9 28.0 42.0#

84 140.6 76.1 114.1#



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: 54.054 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062175.D

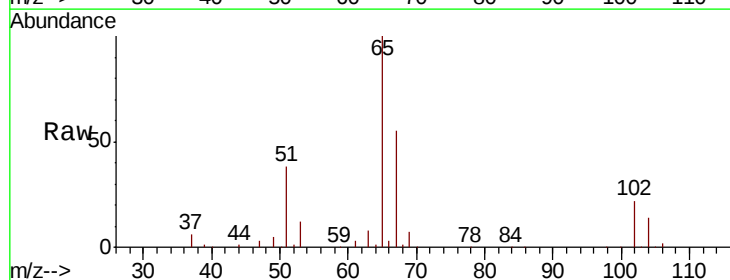
Acq: 27 Jun 2020 6:17

Tgt Ion: 65 Resp: 149121

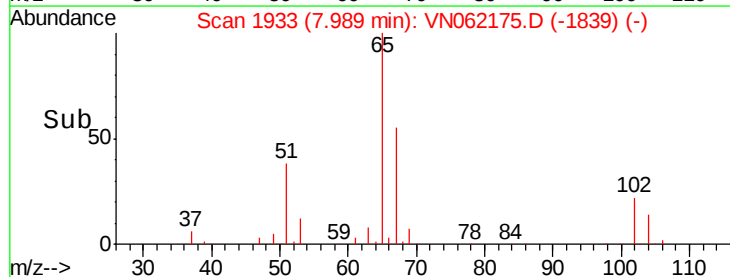
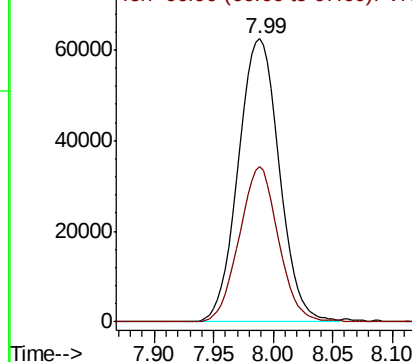
Ion Ratio Lower Upper

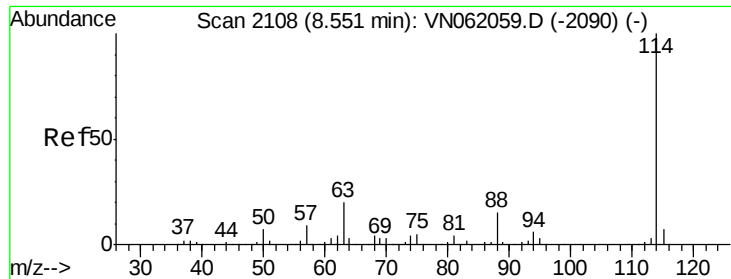
65 100

67 52.3 0.0 106.2



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

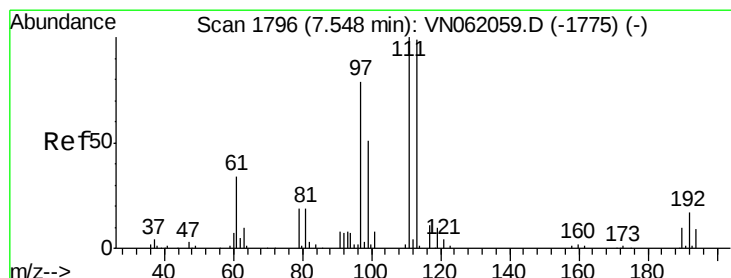
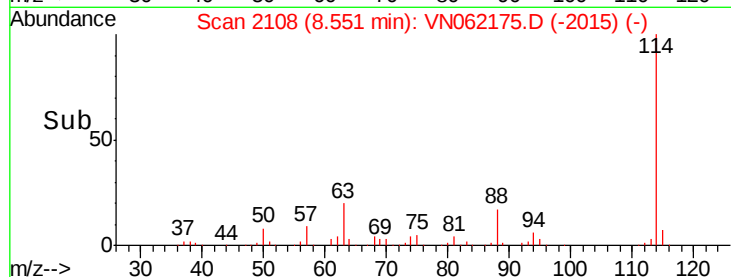
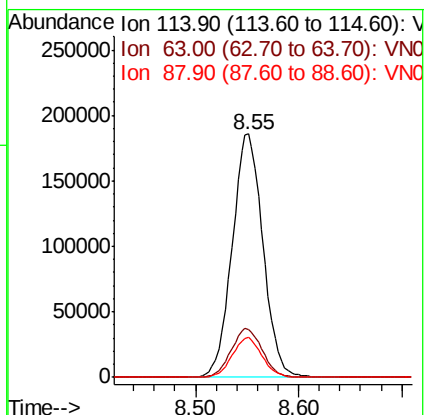
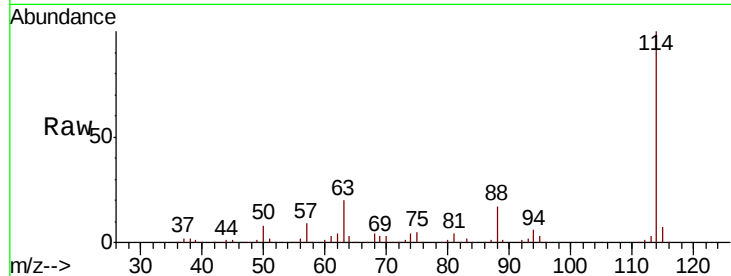




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062175.D
 Acq: 27 Jun 2020 6:17

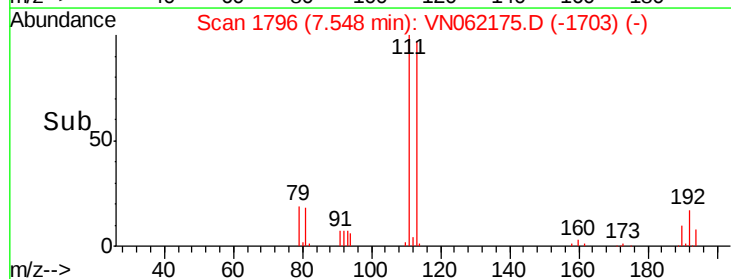
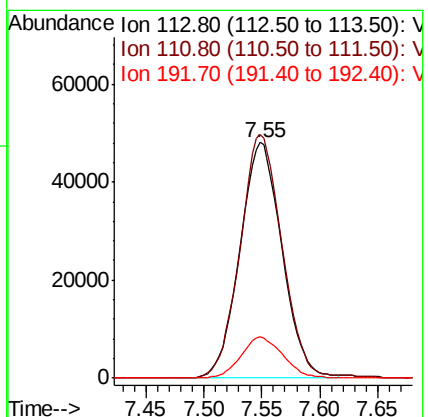
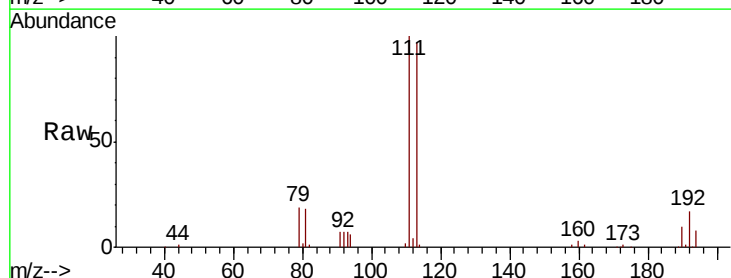
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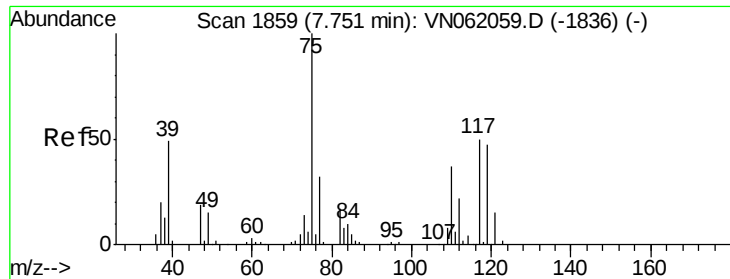
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.2
88	16.5	0.0	30.8



#35
 Dibromofluoromethane
 Concen: 48.991 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062175.D
 Acq: 27 Jun 2020 6:17

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.2	123.4
192	17.4	14.0	21.0

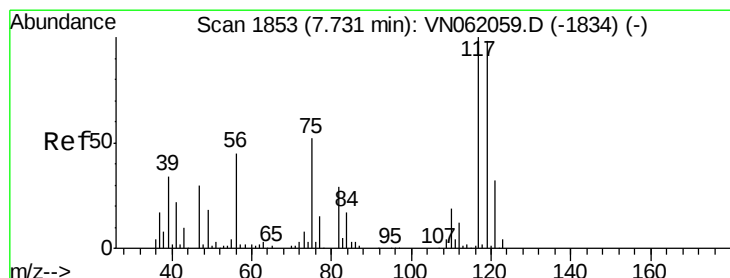
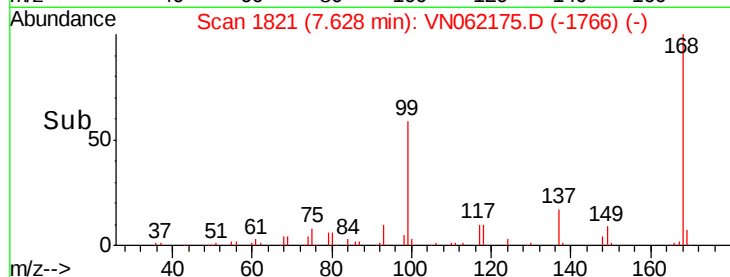
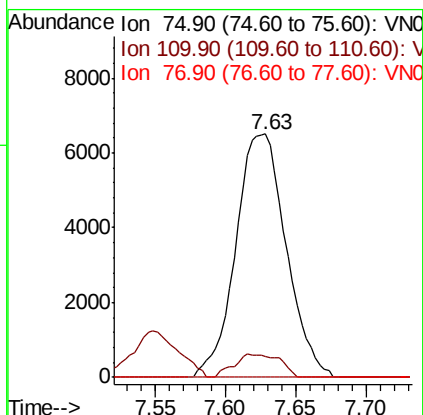
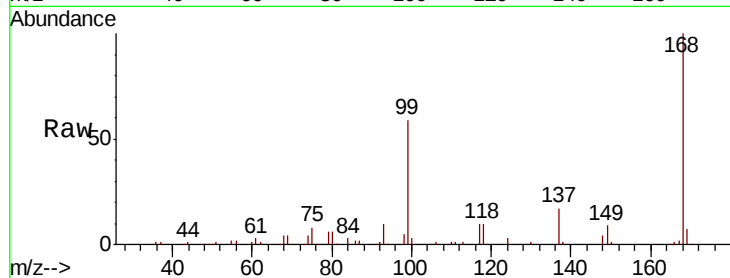




#36
 1,1-Dichloropropene
 Concen: 4.186 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062175.D
 Acq: 27 Jun 2020 6:17

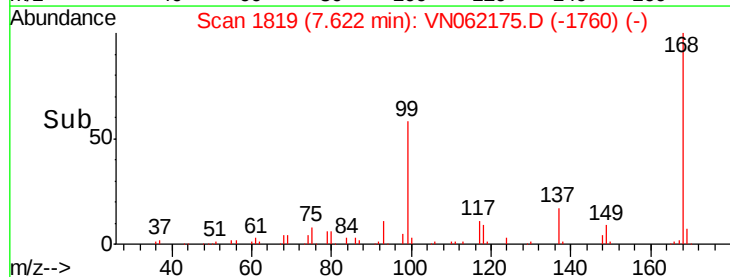
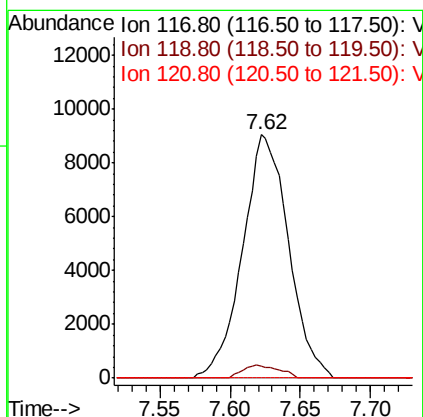
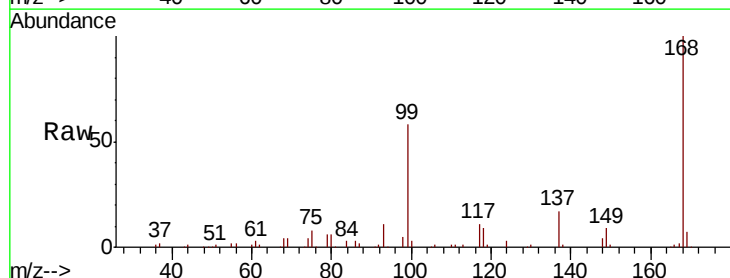
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-062420

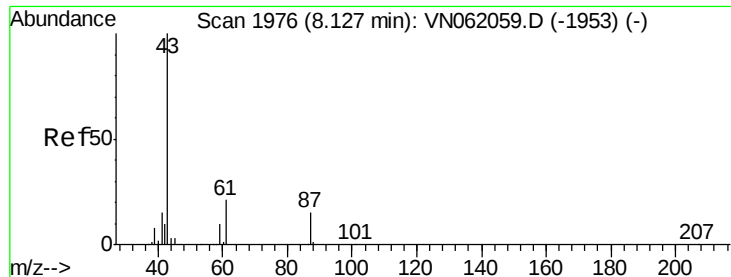
Tot Ion: 75 Resp: 16250
 Ion Ratio Lower Upper
 75 100
 110 8.6 17.9 53.8#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.637 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.11 min
 Lab File: VN062175.D
 Acq: 27 Jun 2020 6:17

Tgt Ion: 117 Resp: 20633
 Ion Ratio Lower Upper
 117 100
 119 5.1 78.2 117.2#
 121 0.0 25.8 38.6#





#43

Isopropyl Acetate

Concen: 8.102 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062175.D

Acq: 27 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

CL-01-062420

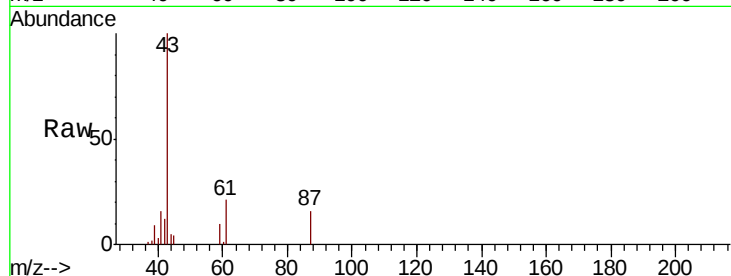
Tot Ion: 43 Resp: 42460

Ion Ratio Lower Upper

43 100

61 20.4 17.2 25.8

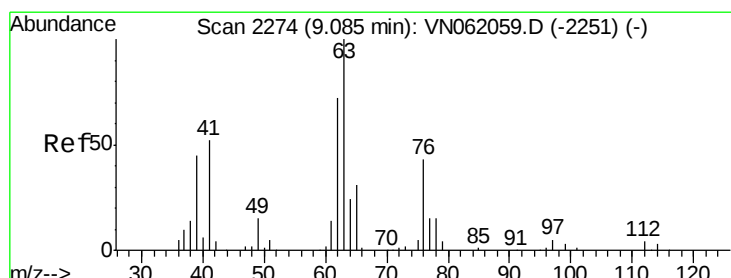
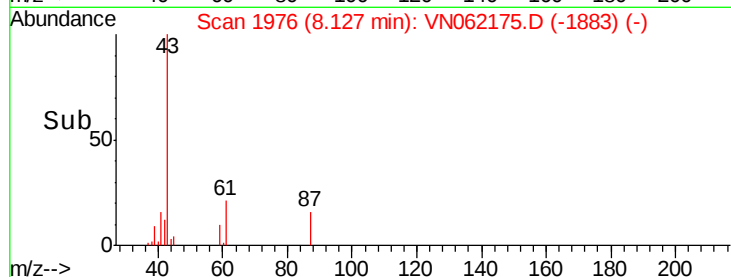
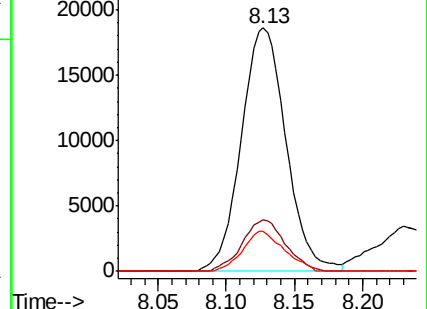
87 15.1 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VN062175.D (-1883) (-)

Ion 61.00 (60.70 to 61.70): VN062175.D (-1883) (-)

Ion 87.00 (86.70 to 87.70): VN062175.D (-1883) (-)



#45

1,2-Dichloropropane

Concen: 0.334 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062175.D

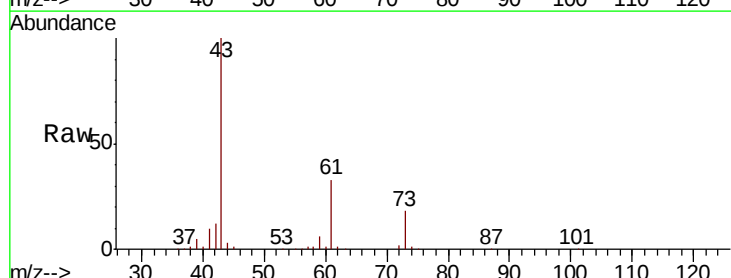
Acq: 27 Jun 2020 6:17

Tgt Ion: 63 Resp: 974

Ion Ratio Lower Upper

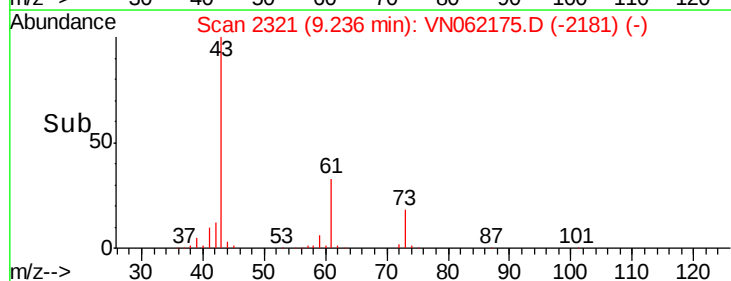
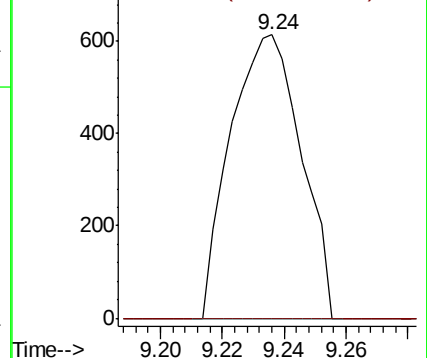
63 100

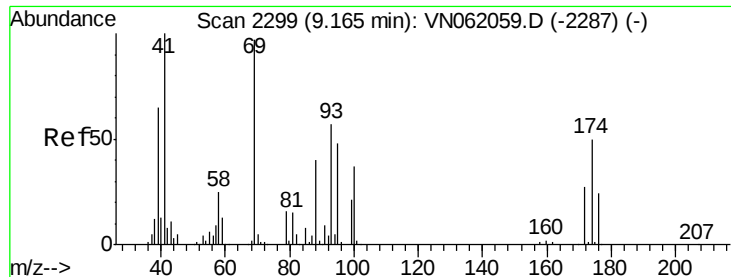
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN062175.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062175.D (-2181) (-)

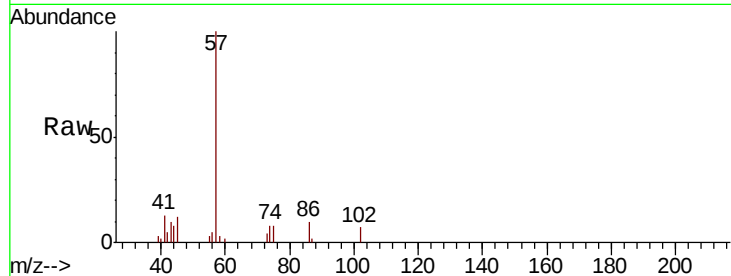




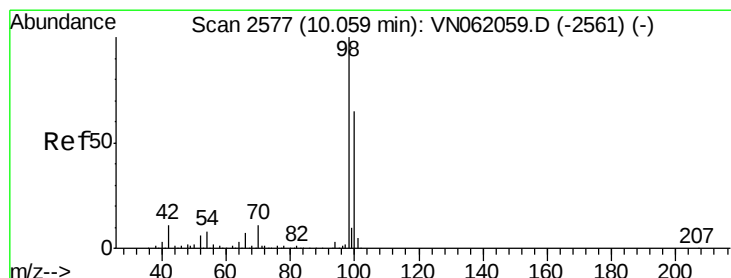
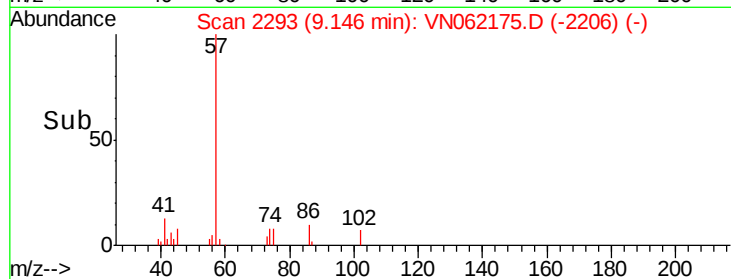
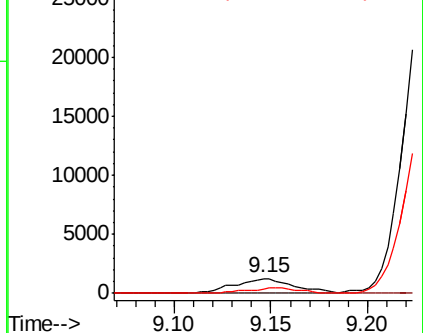
#48
Methvl methacrylate
Concen: 1.127 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062175.D
Acq: 27 Jun 2020 6:17

Instrument :
MSVOA_N
ClientSampleId :
CL-01-062420

Tot Ion	Ratio	Lower	Upper
41	100		
69	0.0	80.7	121.1#
39	0.0	54.5	81.7#

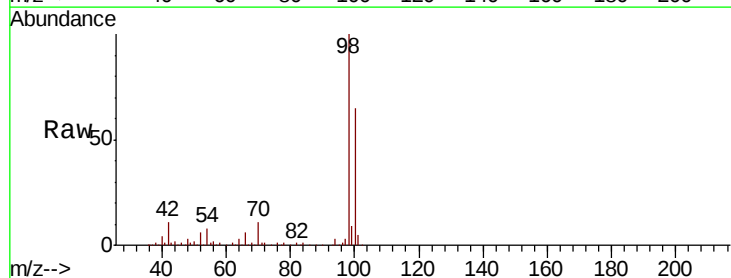


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

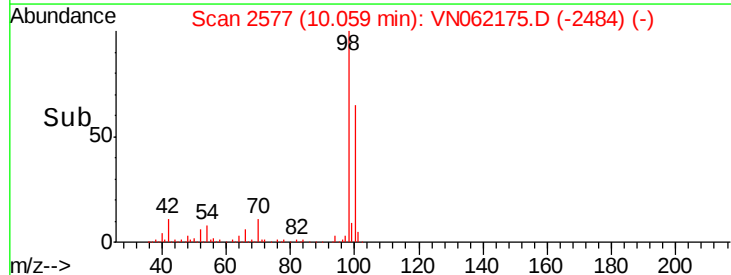
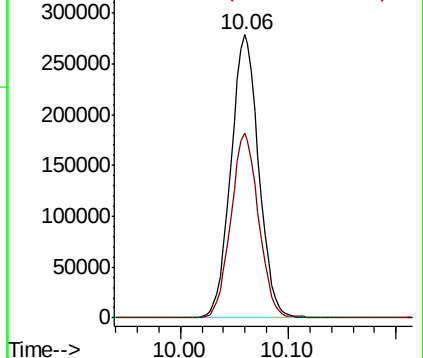


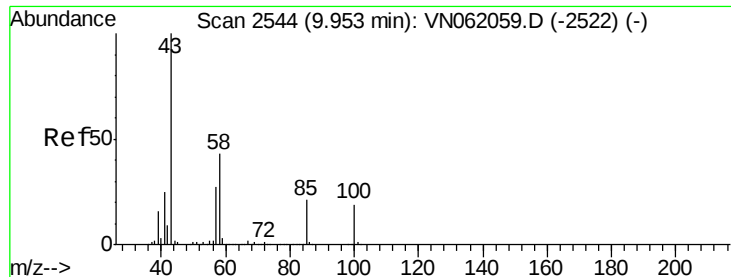
#50
Toluene-d8
Concen: 50.596 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062175.D
Acq: 27 Jun 2020 6:17

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.2	76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

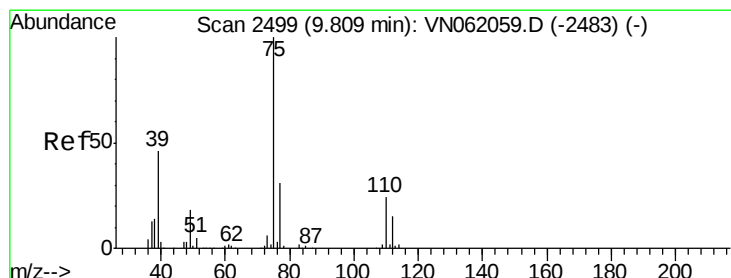
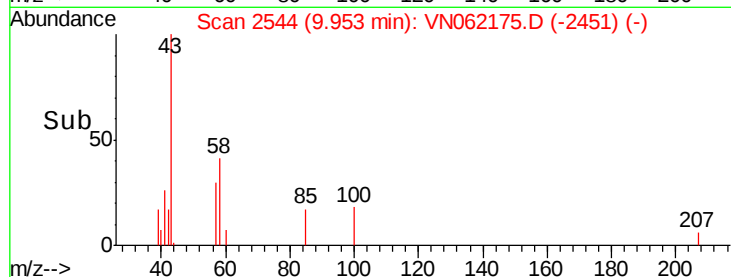
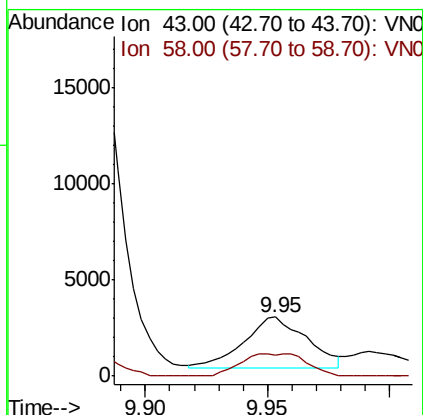
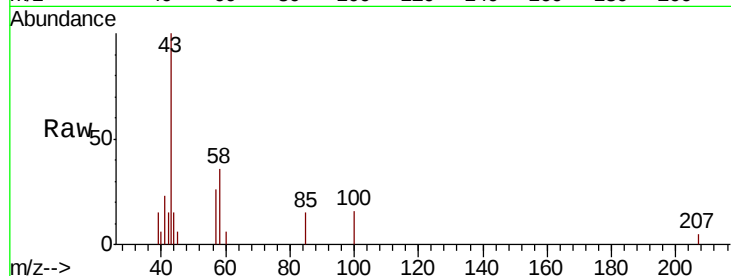




#51
 4-Methyl-2-Pentanone
 Concen: 1.550 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. -0.00 min
 Lab File: VN062175.D
 Acq: 27 Jun 2020 6:17

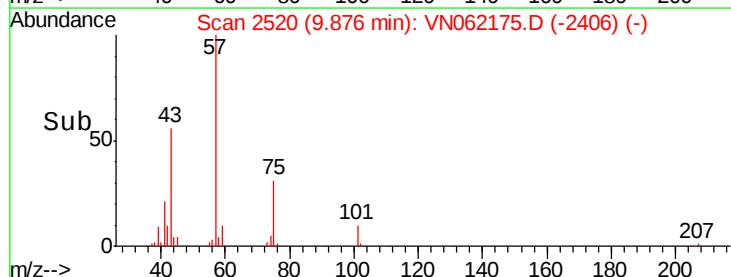
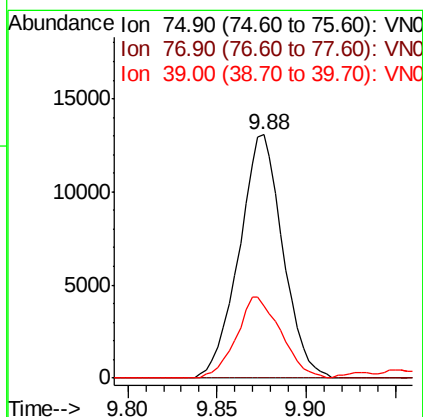
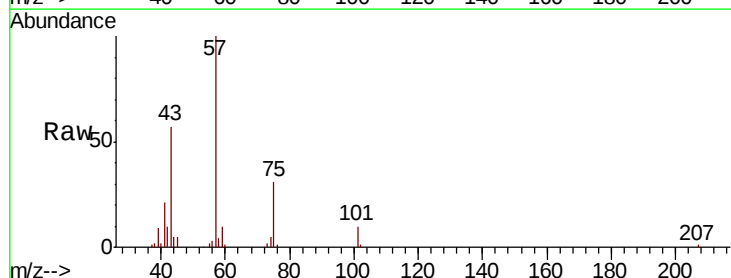
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-062420

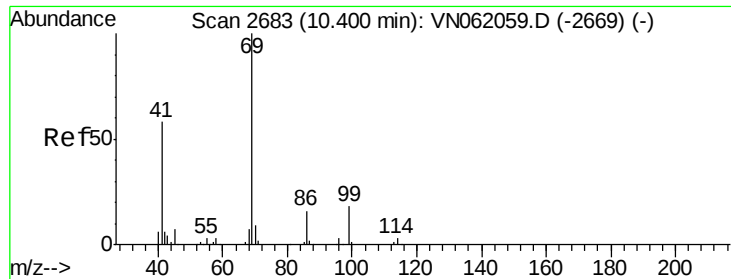
Tot Ion: 43 Resp: 4746
 Ion Ratio Lower Upper
 43 100
 58 25.6 34.2 51.2#



#54
 cis-1,3-Dichloropropene
 Concen: 4.762 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062175.D
 Acq: 27 Jun 2020 6:17

Tgt Ion: 75 Resp: 22291
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 29.8 36.9 55.3#





#56

Ethyl methacrylate

Concen: 0.315 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062175.D

Acq: 27 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

CL-01-062420

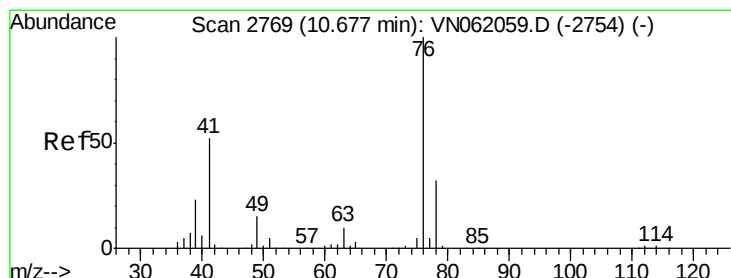
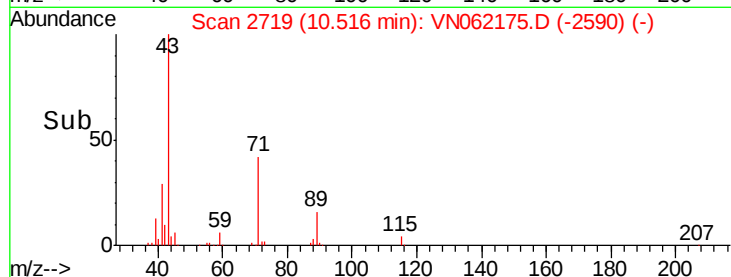
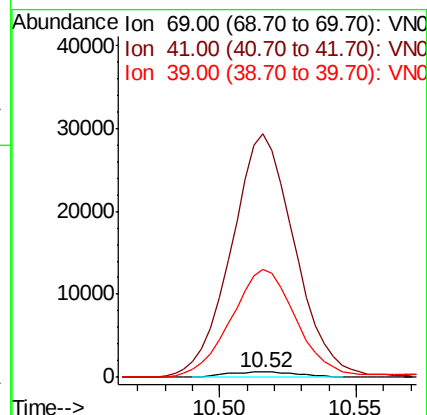
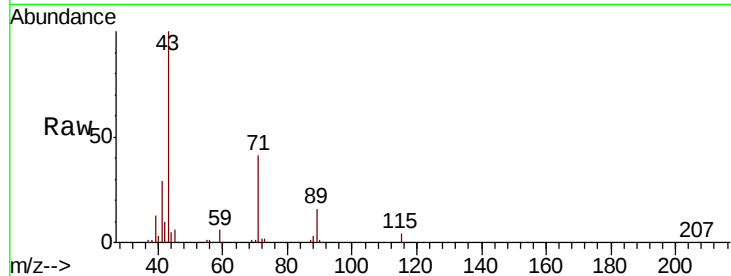
Tot Ion: 69 Resp: 1193

Ion Ratio Lower Upper

69 100

41 3983.7 46.6 70.0#

39 1825.7 31.0 46.4#



#57

1,3-Dichloropropane

Concen: 0.794 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062175.D

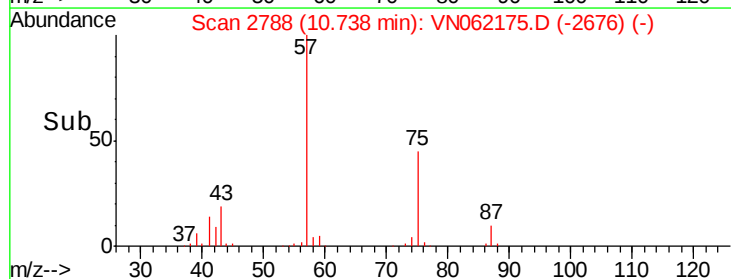
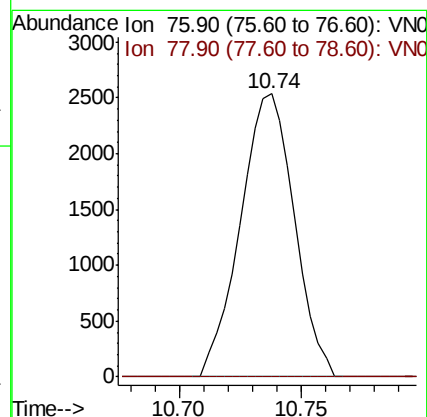
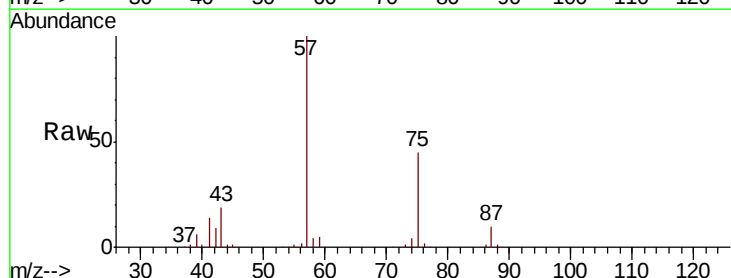
Acq: 27 Jun 2020 6:17

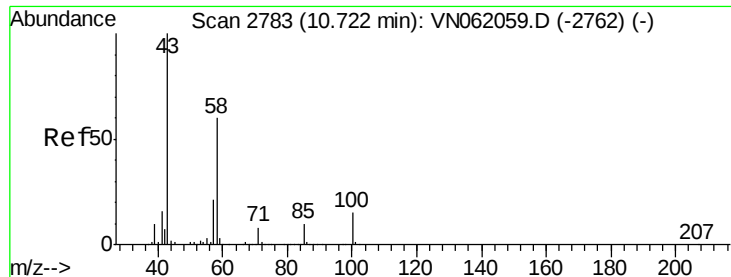
Tgt Ion: 76 Resp: 3881

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

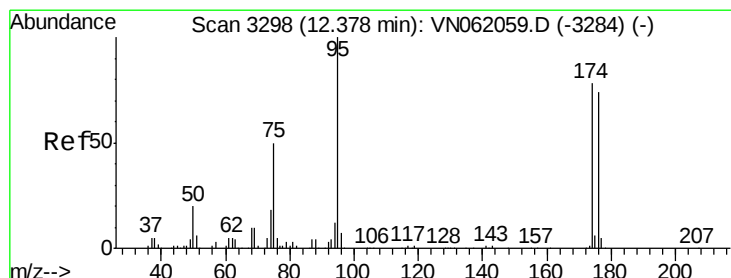
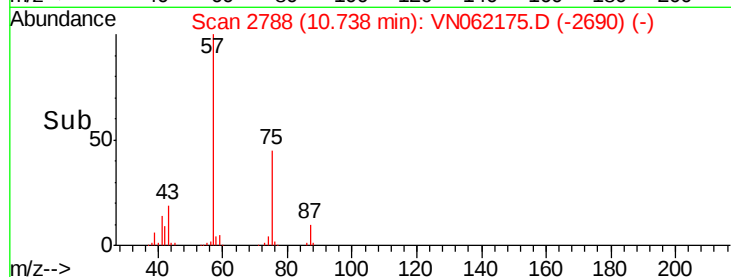
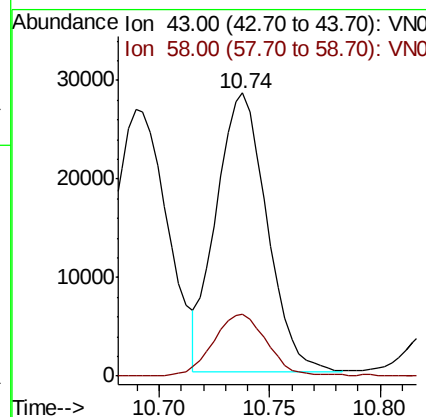
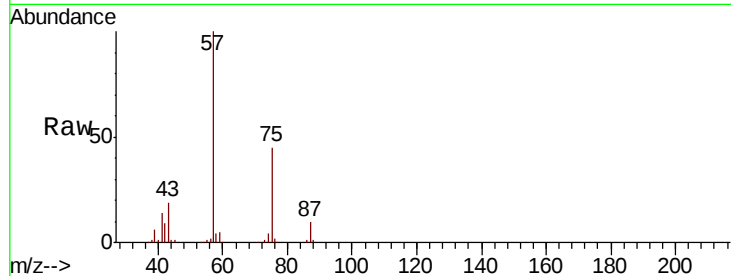




#59
2-Hexanone
Concen: 20.451 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062175.D
Acq: 27 Jun 2020 6:17

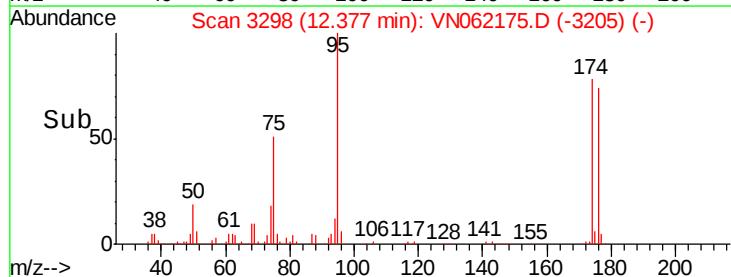
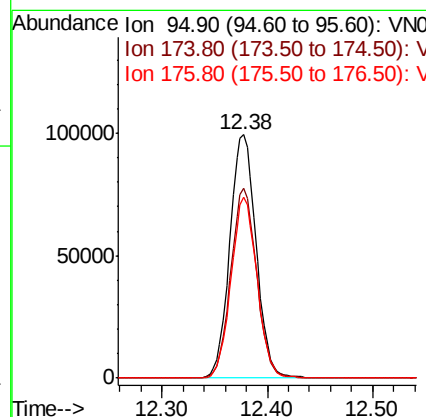
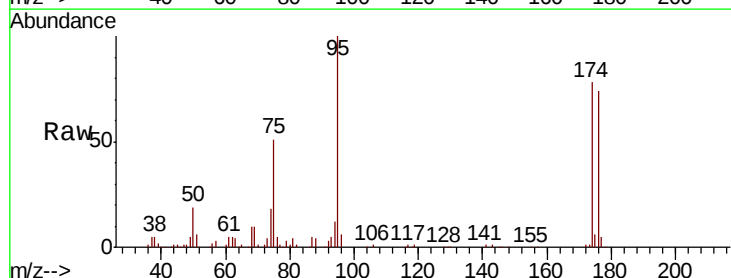
Instrument :
MSVOA_N
ClientSampleId :
CL-01-062420

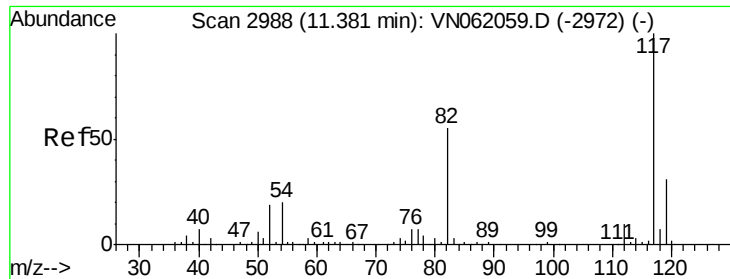
Tot Ion: 43 Resp: 45214
Ion Ratio Lower Upper
43 100
58 23.4 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 51.177 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062175.D
Acq: 27 Jun 2020 6:17

Tgt Ion: 95 Resp: 171257
Ion Ratio Lower Upper
95 100
174 76.7 0.0 154.8
176 73.1 0.0 147.4

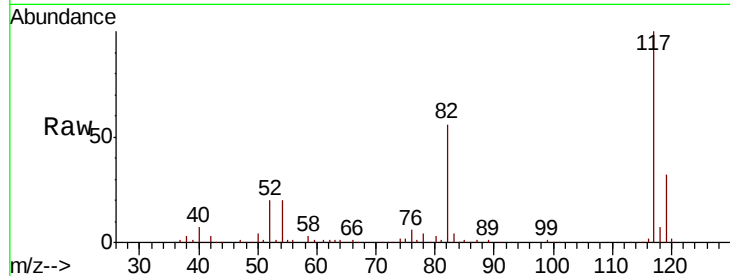




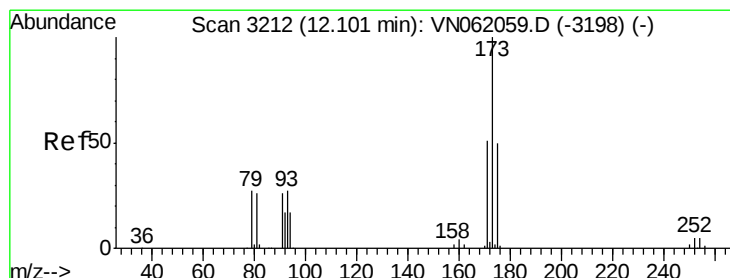
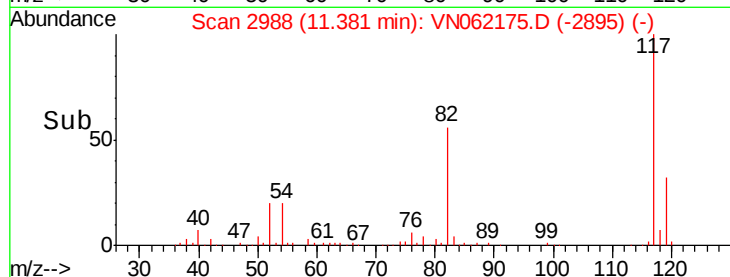
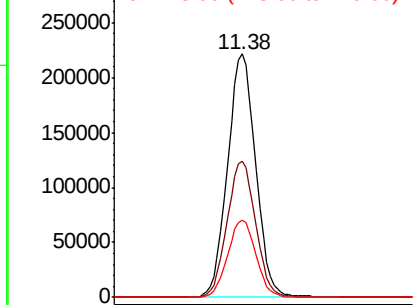
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062175.D
Acq: 27 Jun 2020 6:17

Instrument :
MSVOA_N
ClientSampleId :
CL-01-062420

Tot Ion:117 Resp: 392668
Ion Ratio Lower Upper
117 100
82 56.0 43.8 65.8
119 31.5 25.2 37.8

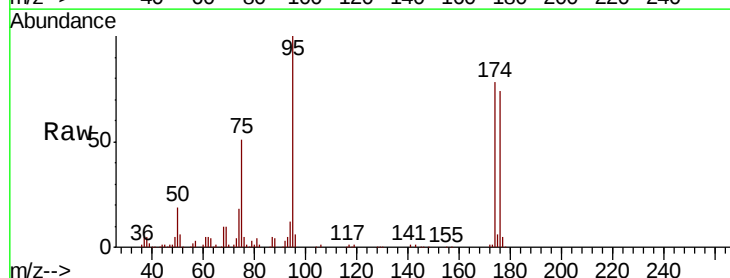


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

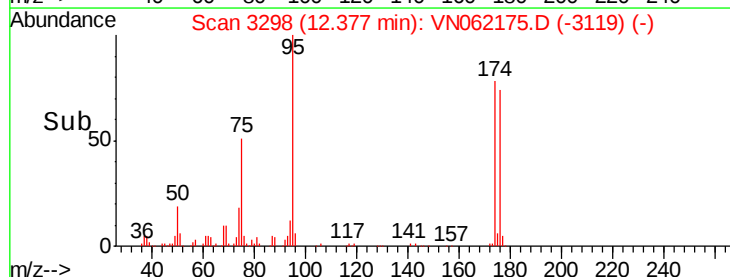
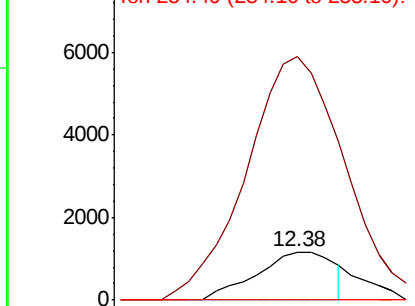


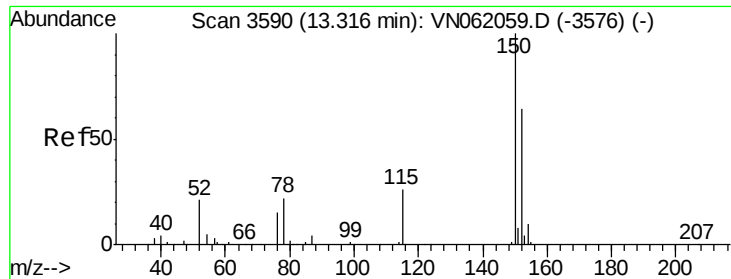
#71
Bromoform
Concen: 0.702 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062175.D
Acq: 27 Jun 2020 6:17

Tgt Ion:173 Resp: 1488
Ion Ratio Lower Upper
173 100
175 549.4 24.7 74.1#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062175.D

Acq: 27 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

CL-01-062420

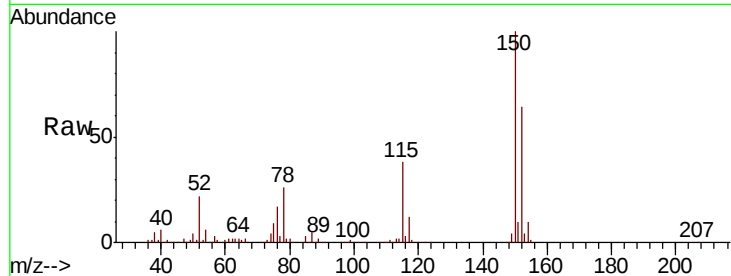
Tot Ion:152 Resp: 151063

Ion Ratio Lower Upper

152 100

115 59.9 29.5 88.5

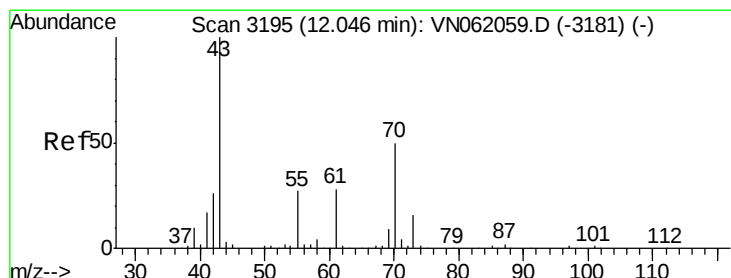
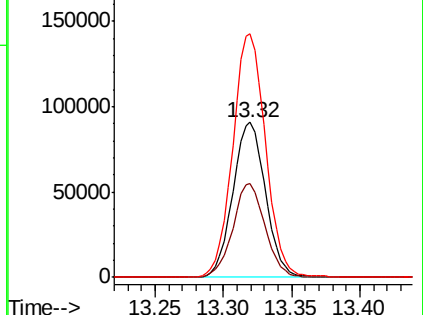
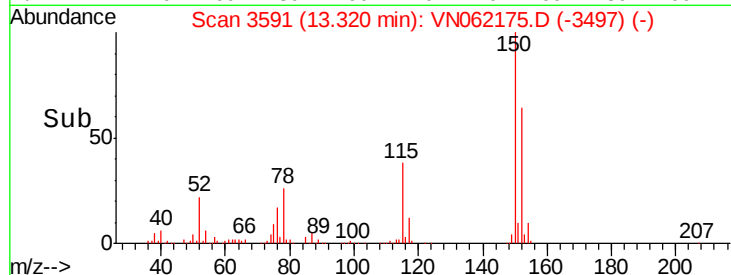
150 157.8 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 3.716 ug/l

RT: 12.01 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VN062175.D

Acq: 27 Jun 2020 6:17

Tgt Ion: 43 Resp: 1721

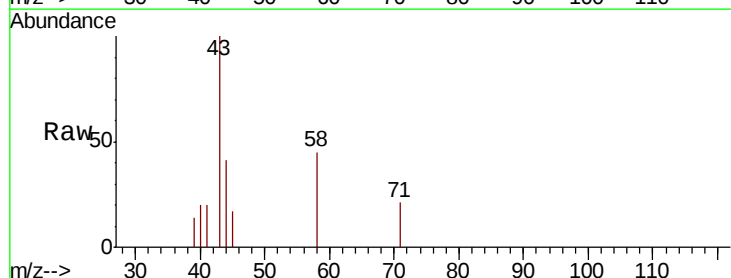
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

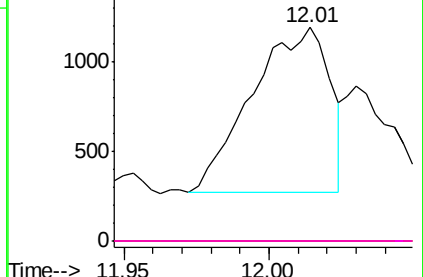
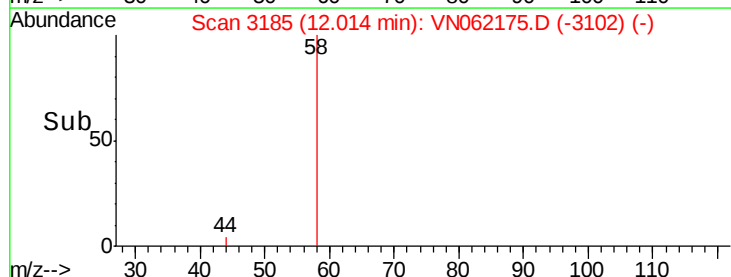


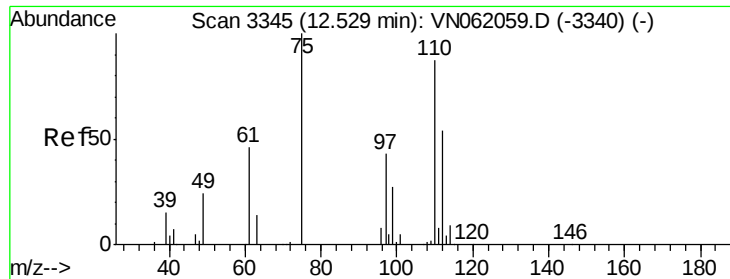
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.624 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062175.D

Acq: 27 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

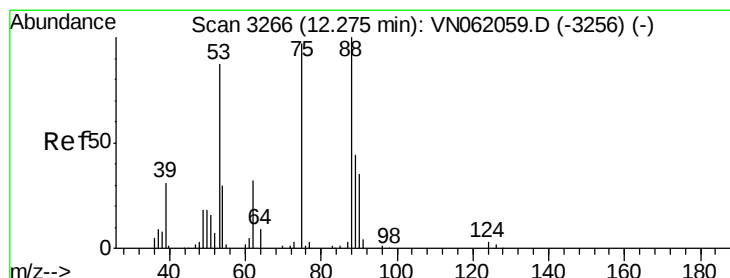
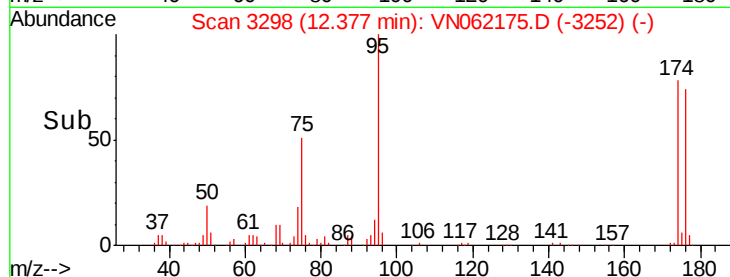
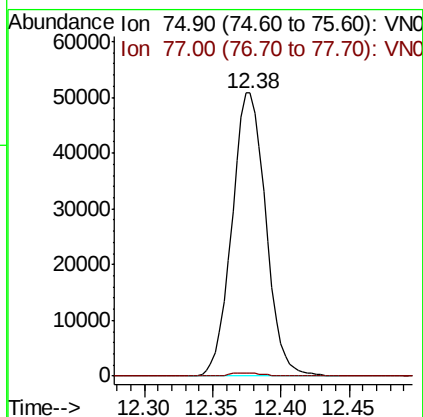
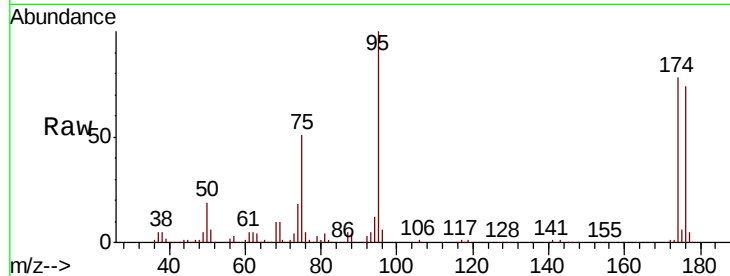
CL-01-062420

Tot Ion: 75 Resp: 87567

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.912 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062175.D

Acq: 27 Jun 2020 6:17

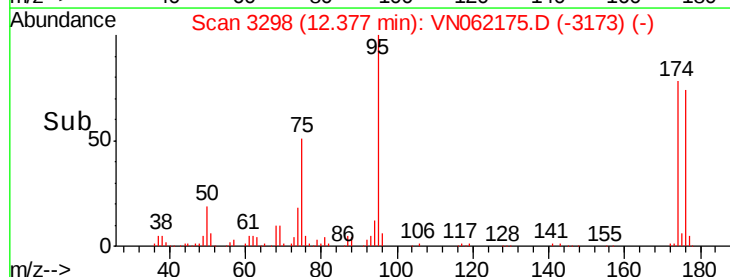
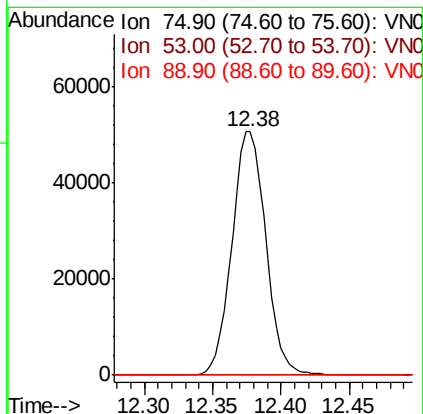
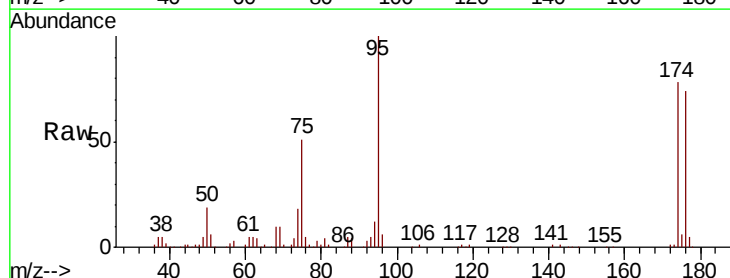
Tgt Ion: 75 Resp: 87567

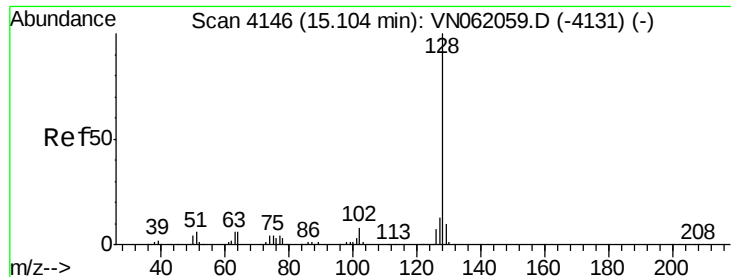
Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#

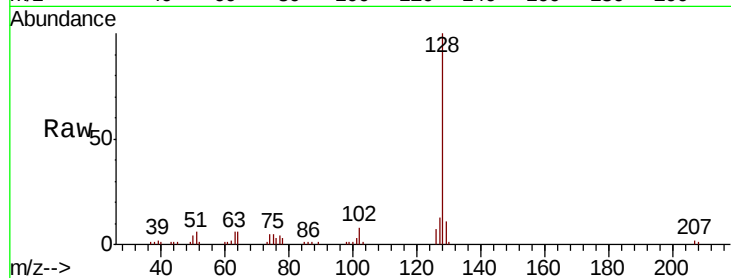




#95
Naphthalene
Concen: 11.036 ug/l
RT: 15.10 min Scan# 4146
Delta R.T. 0.00 min
Lab File: VN062175.D
Acq: 27 Jun 2020 6:17

Instrument :
MSVOA_N
ClientSampleId :
CL-01-062420

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.5	15.7
129	10.7	8.6	13.0



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

