

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062320\
 Data File : VN062051.D
 Acq On : 23 Jun 2020 19:01
 Operator : JC/MD
 Sample : L3033-04DL 1000X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF001MW001-200615DL2

Quant Time: Jun 24 01:34:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	149779	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	277141	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	266184	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	101920	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	105879	52.71	ug/l	0.00
Spiked Amount			Recovery	=	105.42%	
35) Dibromofluoromethane	7.55	113	89931	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
50) Toluene-d8	10.06	98	352524	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
62) 4-Bromofluorobenzene	12.38	95	113993	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	

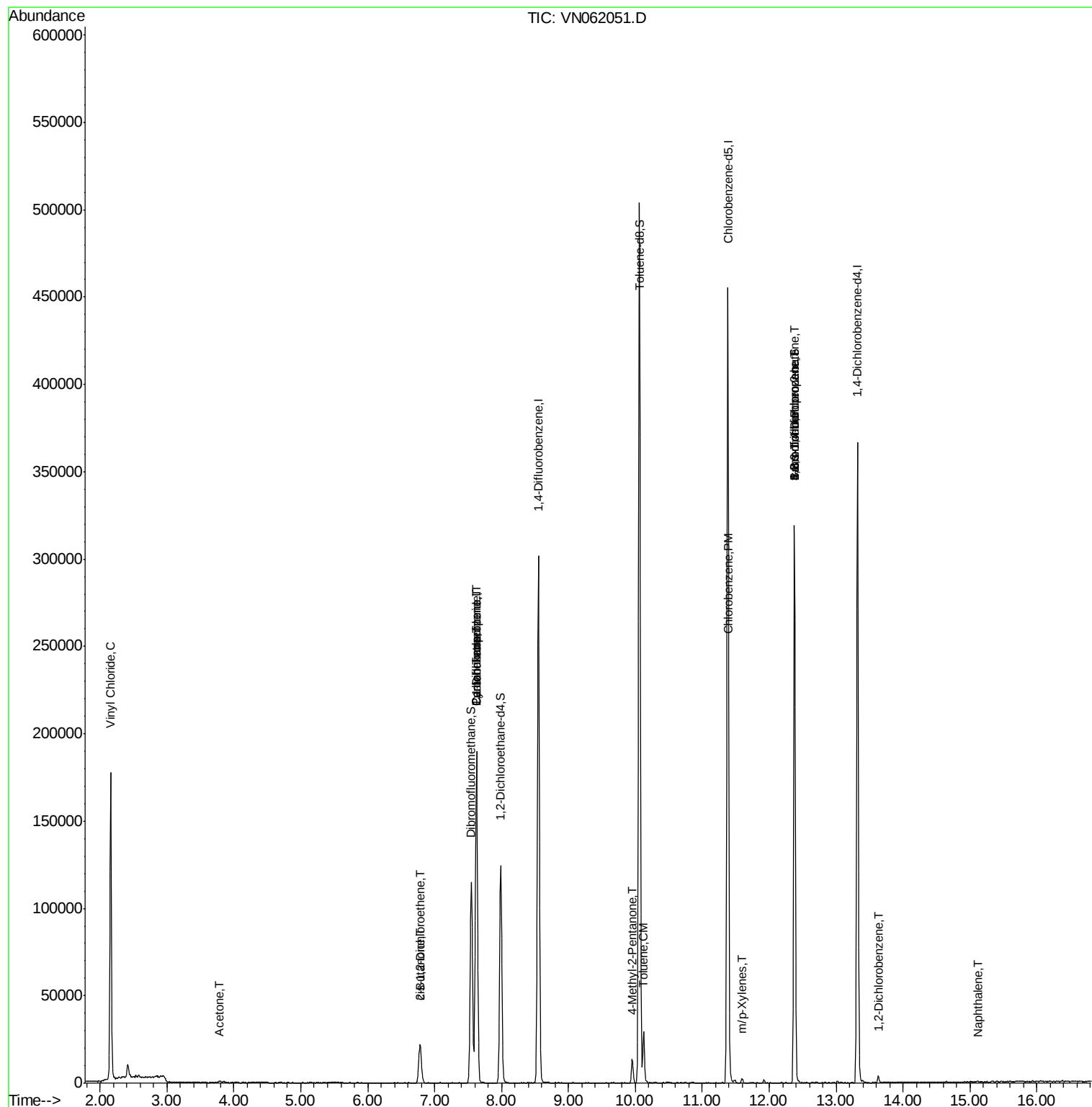
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.16	62	158195	63.828	ug/l	98
16) Acetone	3.78	43	1855	3.126	ug/l #	86
25) 2-Butanone	6.79	43	689	0.796	ug/l #	84
27) cis-1,2-Dichloroethene	6.78	96	13575	6.731	ug/l	91
31) Cyclohexane	7.62	56	3320	1.254	ug/l #	23
36) 1,1-Dichloropropene	7.63	75	12263	4.851	ug/l #	50
38) Carbon Tetrachloride	7.62	117	15249	6.092	ug/l #	18
51) 4-Methyl-2-Pentanone	9.95	43	9295	4.728	ug/l	93
52) Toluene	10.12	92	12235	2.544	ug/l	97
65) Chlorobenzene	11.40	112	1702	0.303	ug/l #	80
68) m/p-Xylenes	11.59	106	1056	0.291	ug/l	82
71) Bromoform	12.38	173	1043	0.730	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	57546	28.759	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	57546	78.439	ug/l #	14
91) 1,2-Dichlorobenzene	13.63	146	2269	0.707	ug/l	89
95) Naphthalene	15.11	128	404	3.557	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

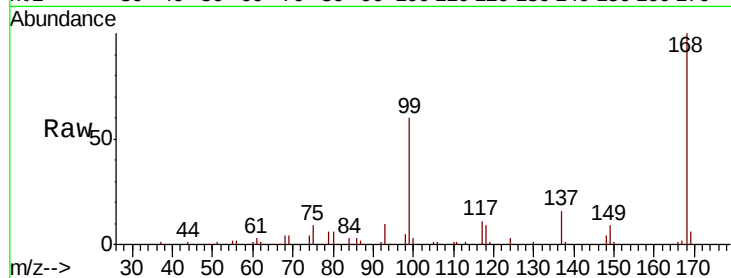
LF001MW001-200615DL2

Tot Ion:168 Resp: 149779

Ion Ratio Lower Upper

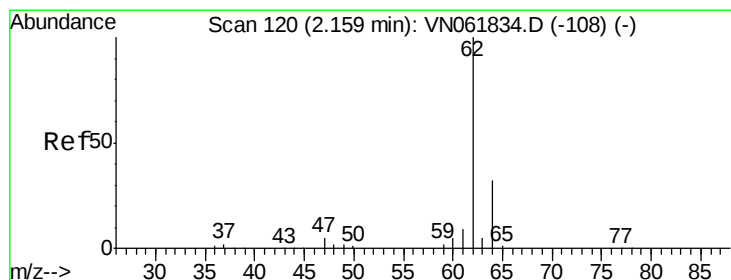
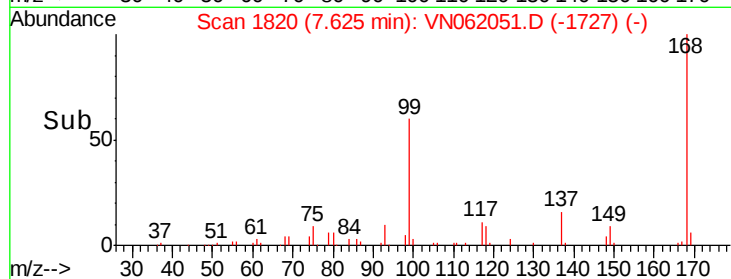
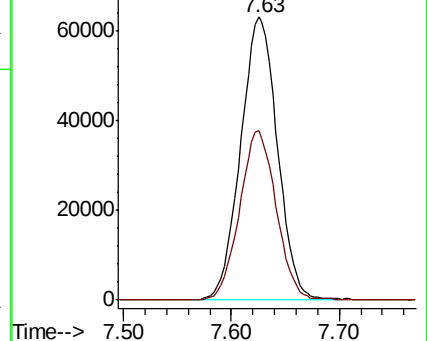
168 100

99 59.8 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#4

Vinyl Chloride

Concen: 63.828 ug/l

RT: 2.16 min Scan# 120

Delta R.T. -0.00 min

Lab File: VN062051.D

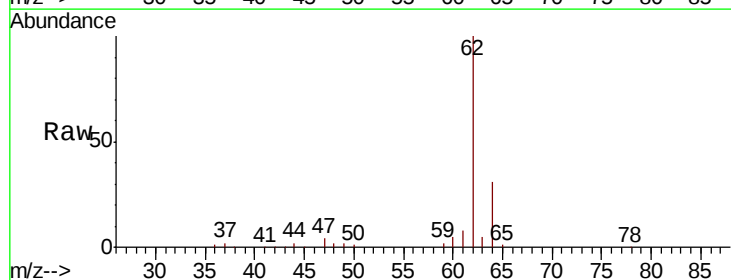
Acq: 23 Jun 2020 19:01

Tgt Ion: 62 Resp: 158195

Ion Ratio Lower Upper

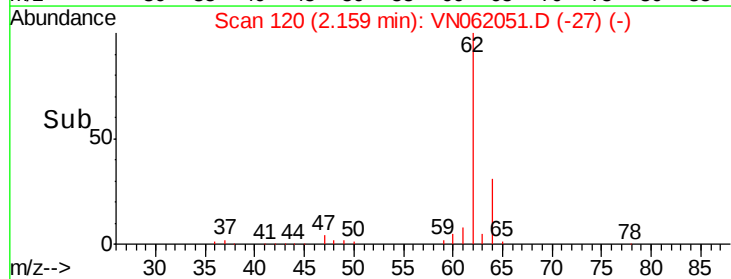
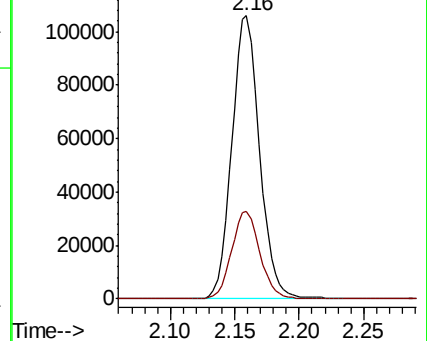
62 100

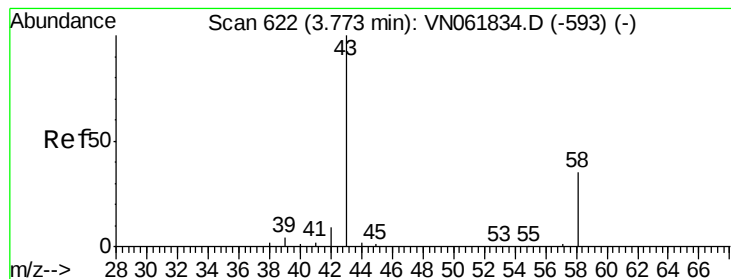
64 31.0 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#16

Acetone

Concen: 3.126 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

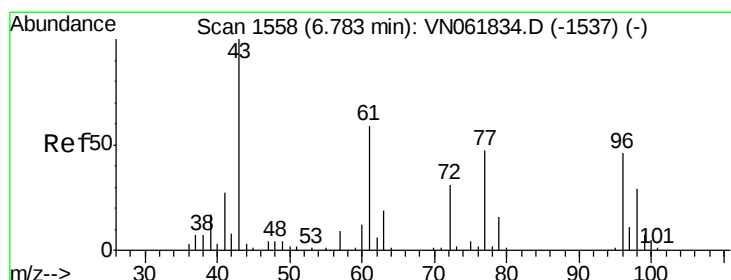
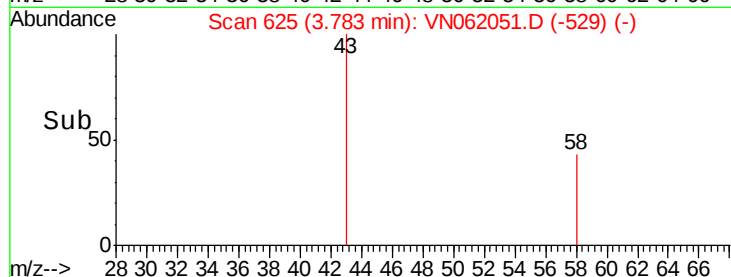
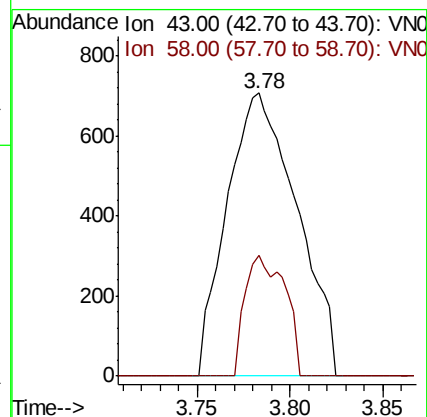
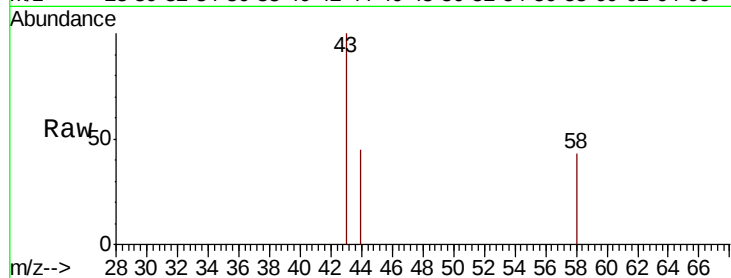
LF001MW001-200615DL2

Tot Ion: 43 Resp: 1855

Ion Ratio Lower Upper

43 100

58 42.9 27.8 41.8#



#25

2-Butanone

Concen: 0.796 ug/l

RT: 6.79 min Scan# 1560

Delta R.T. 0.01 min

Lab File: VN062051.D

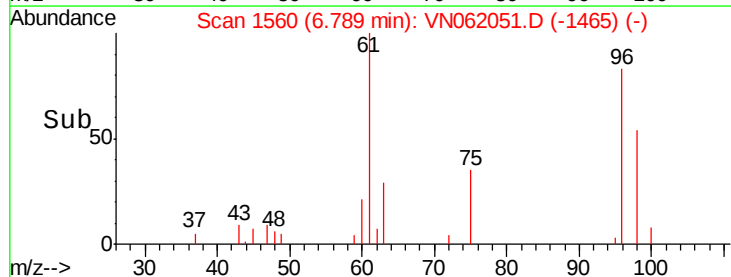
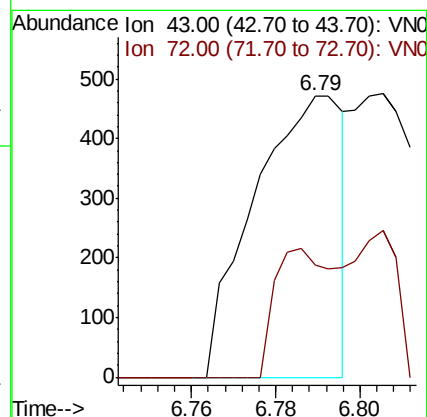
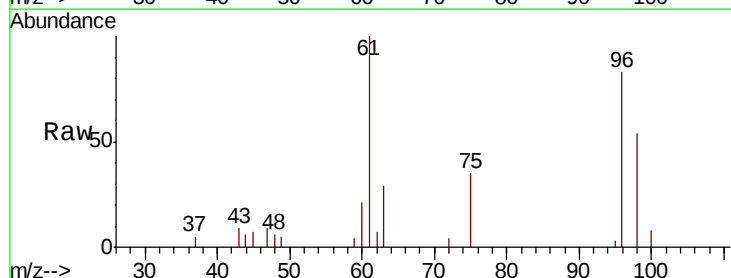
Acq: 23 Jun 2020 19:01

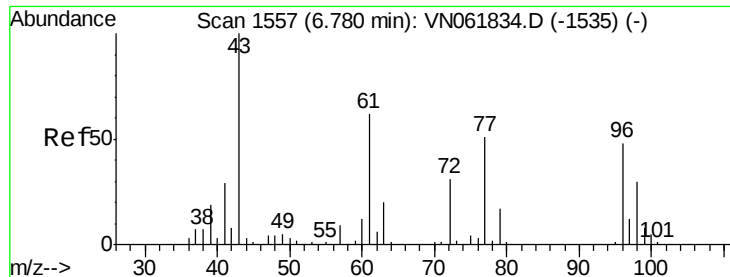
Tgt Ion: 43 Resp: 689

Ion Ratio Lower Upper

43 100

72 39.8 24.6 37.0#





#27

cis-1,2-Dichloroethene

Concen: 6.731 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

LF001MW001-200615DL2

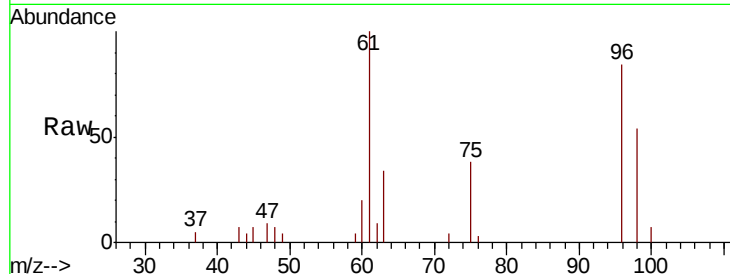
Tot Ion: 96 Resp: 13575

Ion Ratio Lower Upper

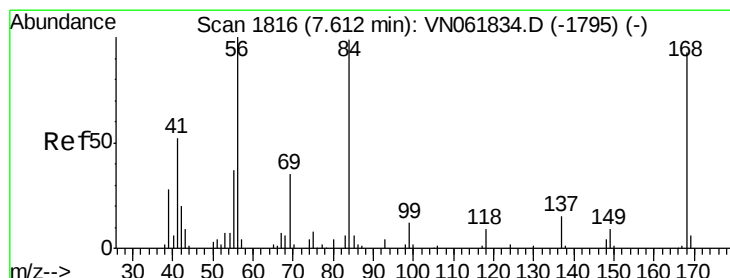
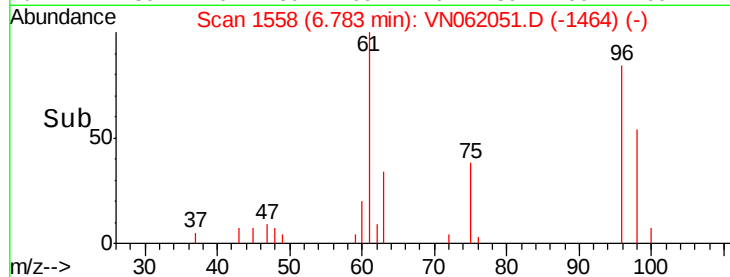
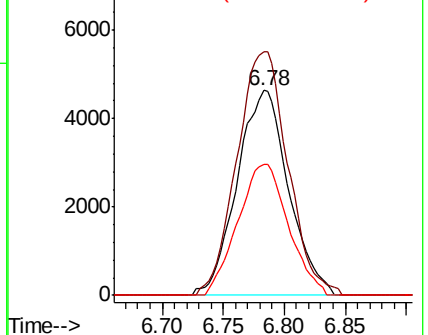
96 100

61 117.9 0.0 265.6

98 62.7 0.0 128.2



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#31

Cyclohexane

Concen: 1.254 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

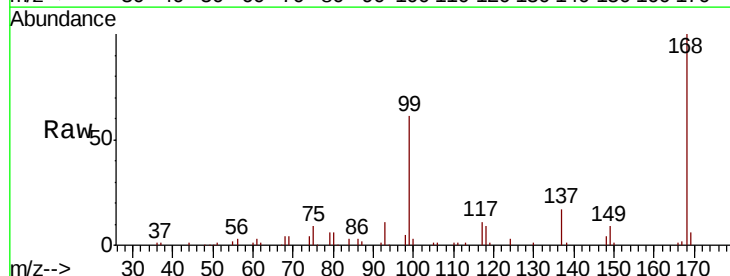
Tgt Ion: 56 Resp: 3320

Ion Ratio Lower Upper

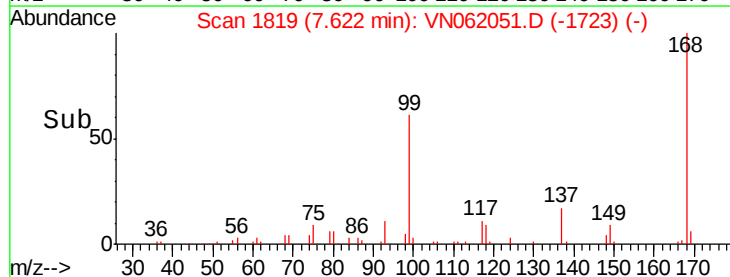
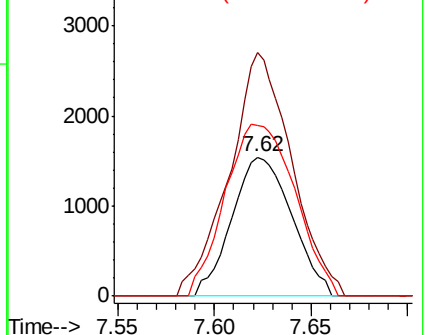
56 100

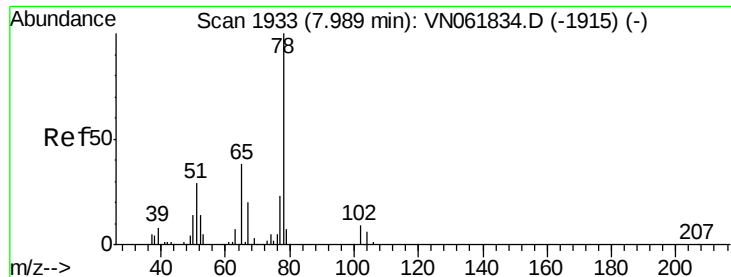
69 165.4 27.7 41.5#

84 122.9 79.1 118.7#



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

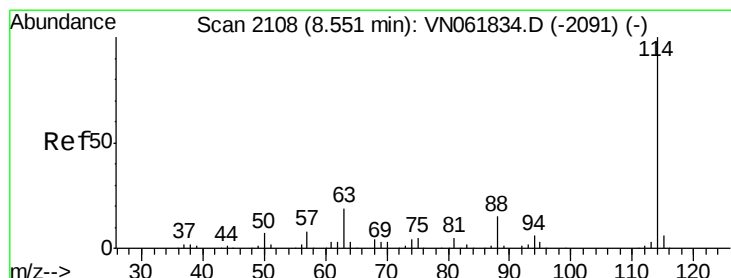
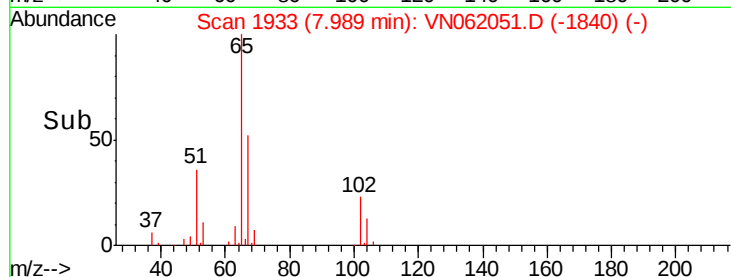
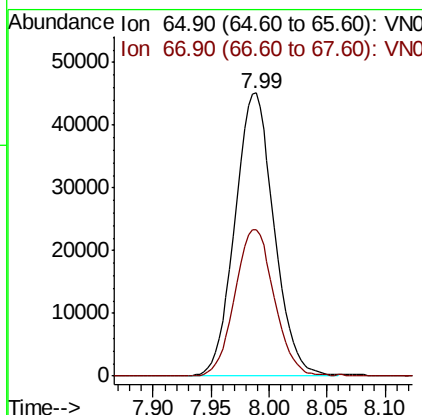
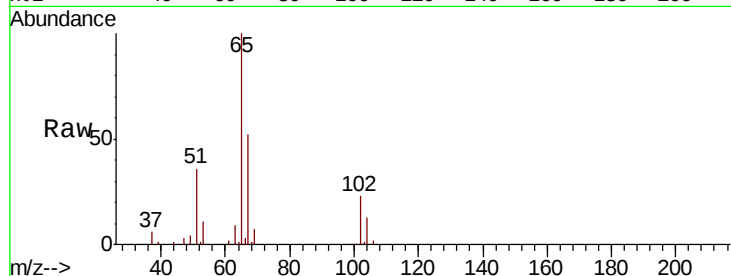




#33
 1,2-Dichloroethane-d4
 Concen: 52.709 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN062051.D
 Acq: 23 Jun 2020 19:01

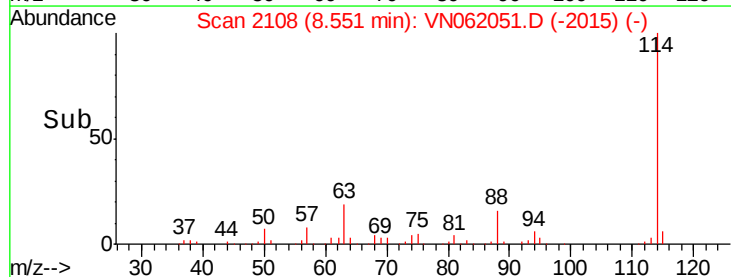
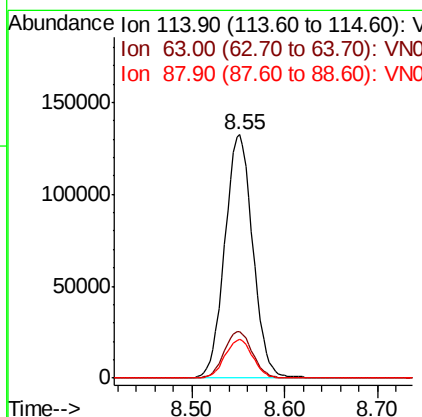
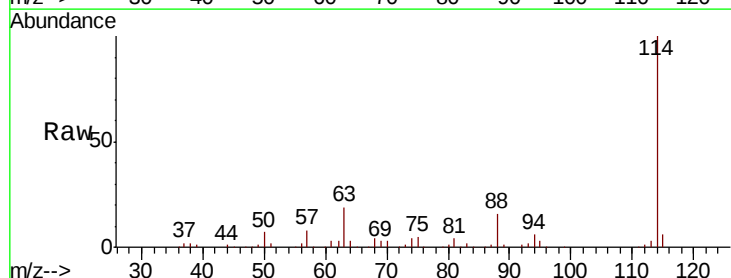
Instrument :
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 LF001MW001-200615DL2

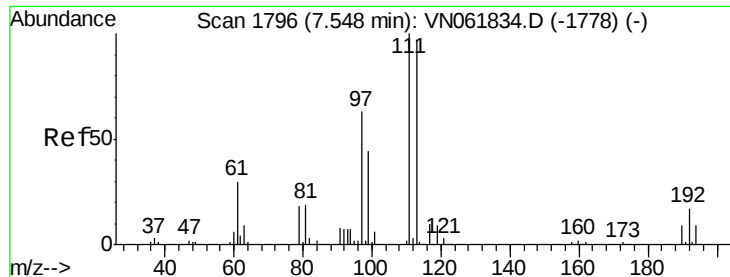
Tot Ion: 65 Resp: 105879
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062051.D
 Acq: 23 Jun 2020 19:01

Tgt Ion: 114 Resp: 277141
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 37.6
 88 15.7 0.0 31.0

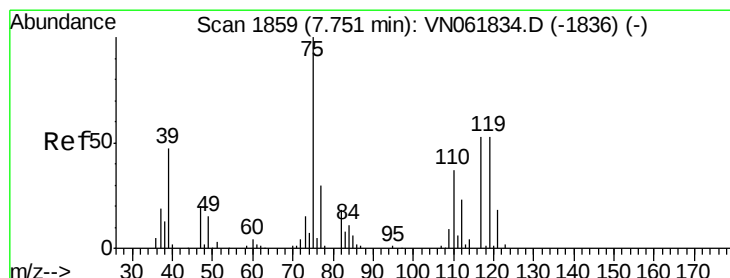
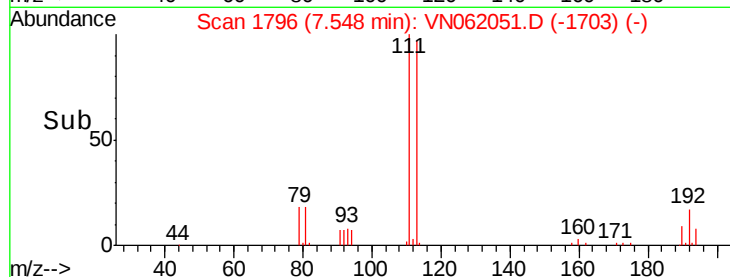
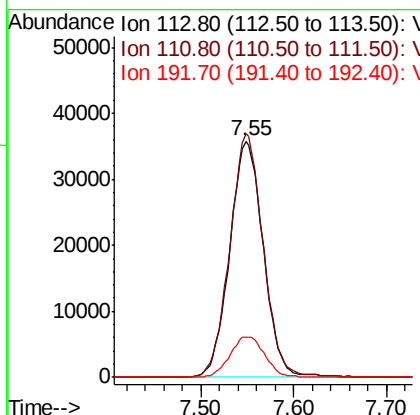
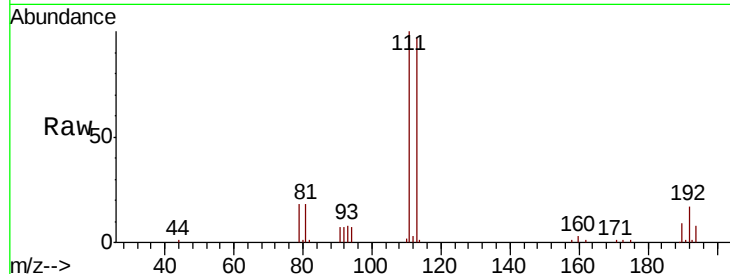




#35
 Dibromofluoromethane
 Concen: 50.722 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062051.D
 Acq: 23 Jun 2020 19:01

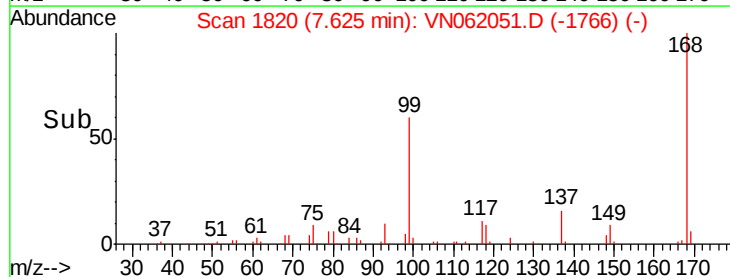
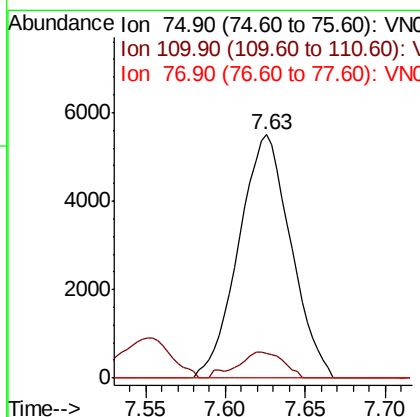
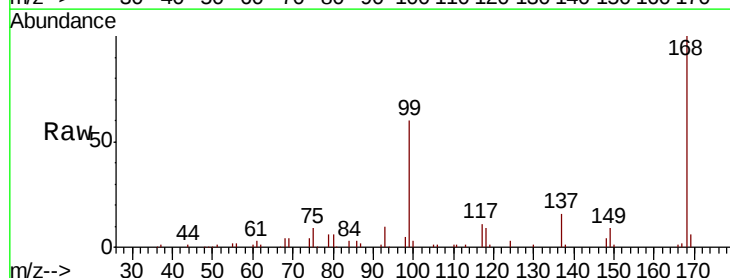
Instrument :
 MSVOA_N
 ClientSampleId :
 LF001MW001-200615DL2

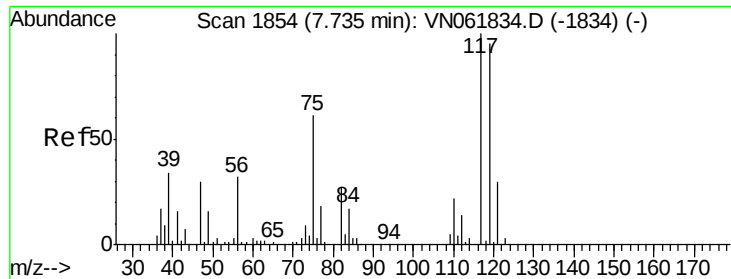
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	83.7	125.5
192	17.6	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.851 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062051.D
 Acq: 23 Jun 2020 19:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.2	54.6#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 6.092 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

LF001MW001-200615DL2

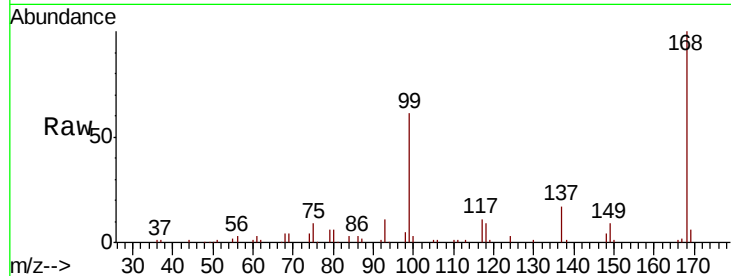
Tot Ion:117 Resp: 15249

Ion Ratio Lower Upper

117 100

119 7.3 75.8 113.6#

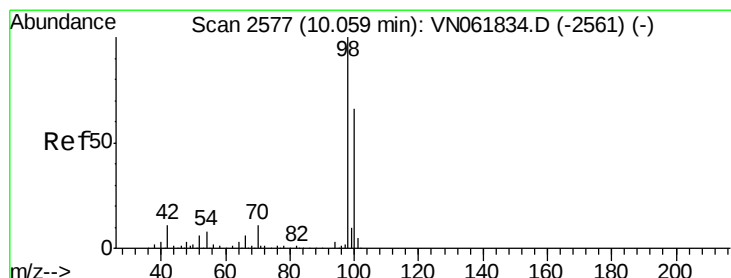
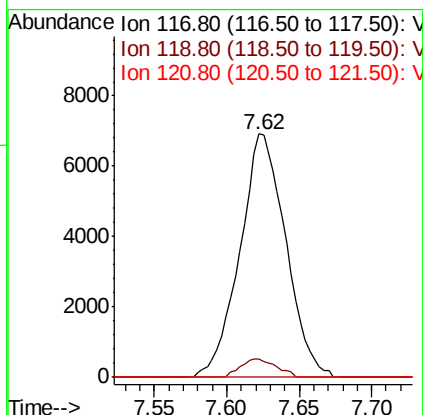
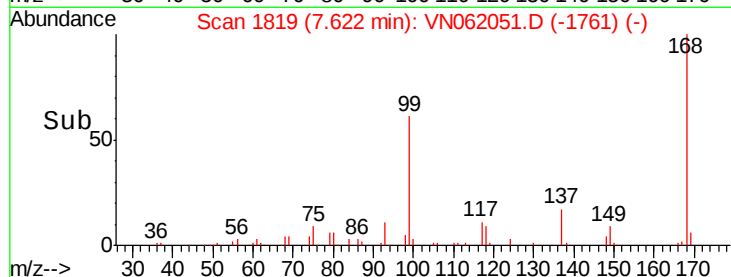
121 0.0 23.8 35.6#



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



#50

Toluene-d8

Concen: 50.574 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062051.D

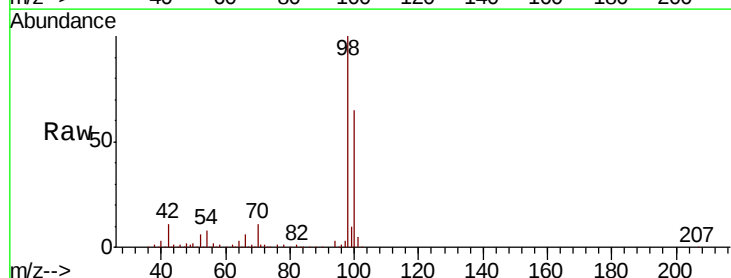
Acq: 23 Jun 2020 19:01

Tgt Ion: 98 Resp: 352524

Ion Ratio Lower Upper

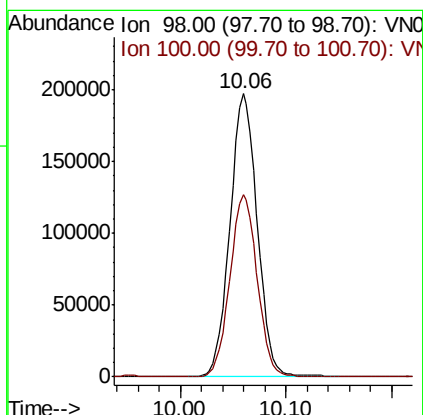
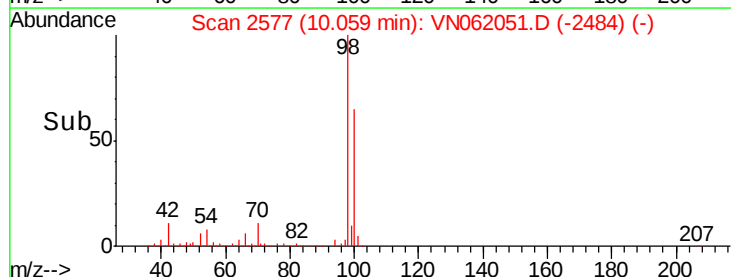
98 100

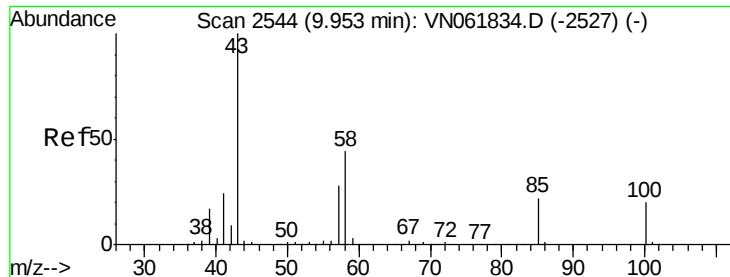
100 64.7 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 4.728 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

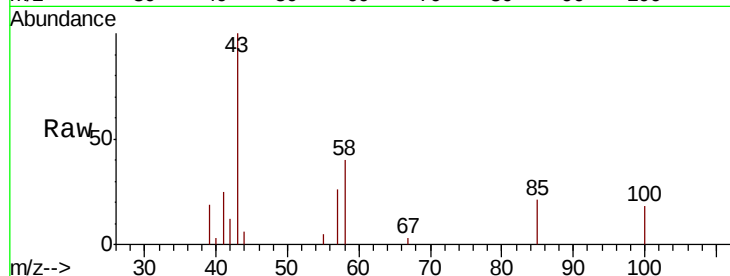
LF001MW001-200615DL2

Tot Ion: 43 Resp: 9295

Ion Ratio Lower Upper

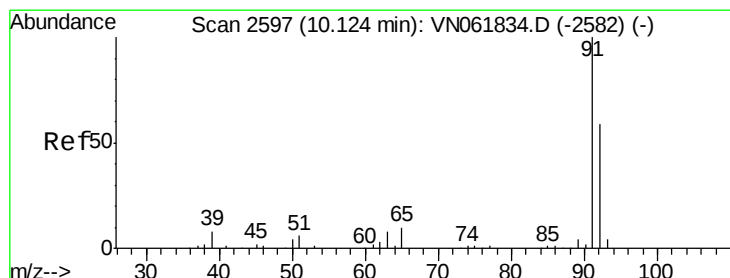
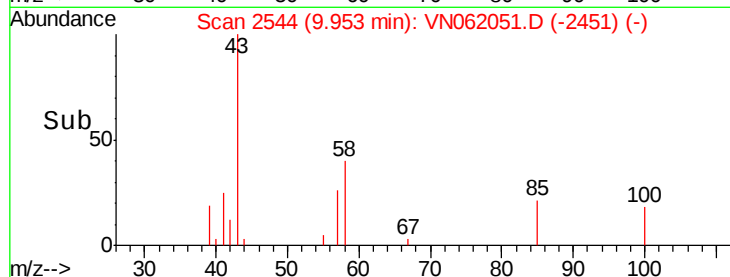
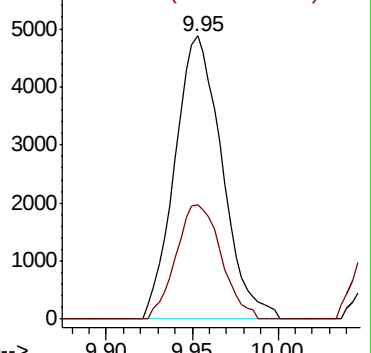
43 100

58 38.6 34.6 52.0



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-2527) (-)



#52

Toluene

Concen: 2.544 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VN062051.D

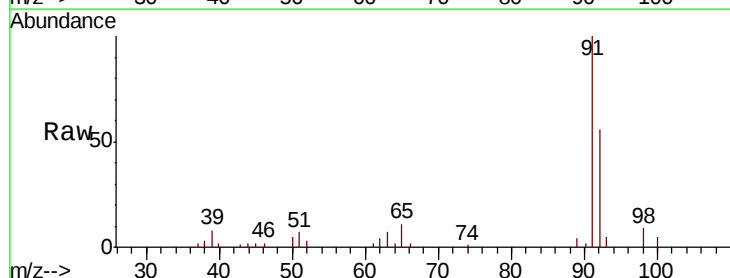
Acq: 23 Jun 2020 19:01

Tgt Ion: 92 Resp: 12235

Ion Ratio Lower Upper

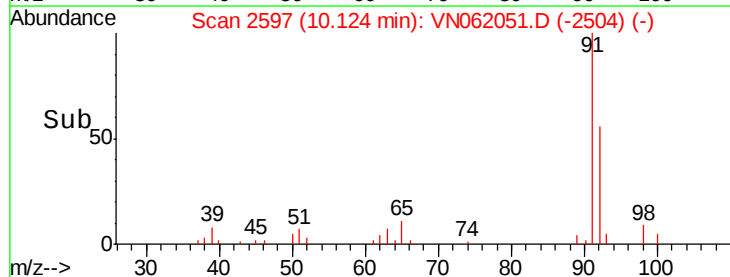
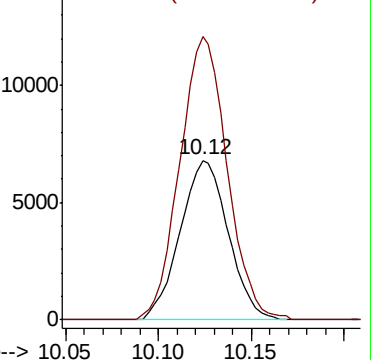
92 100

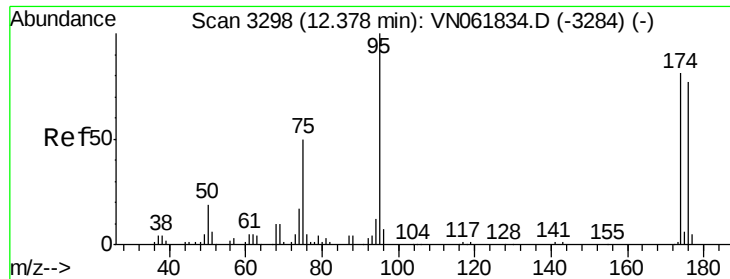
91 175.1 137.1 205.7



Abundance Ion 92.00 (91.70 to 92.70): VN061834.D (-2582) (-)

Ion 91.00 (90.70 to 91.70): VN061834.D (-2582) (-)

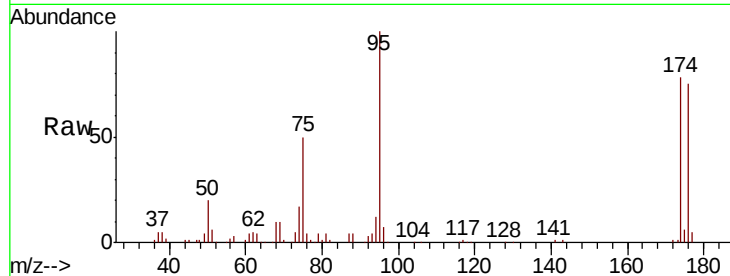




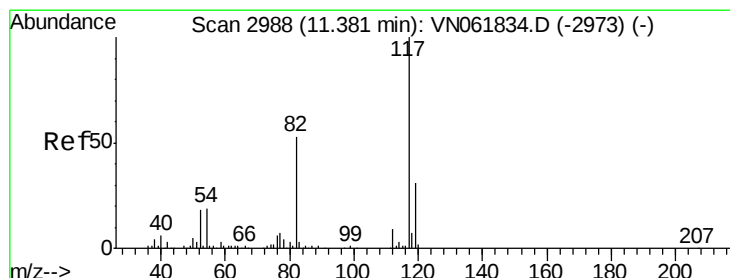
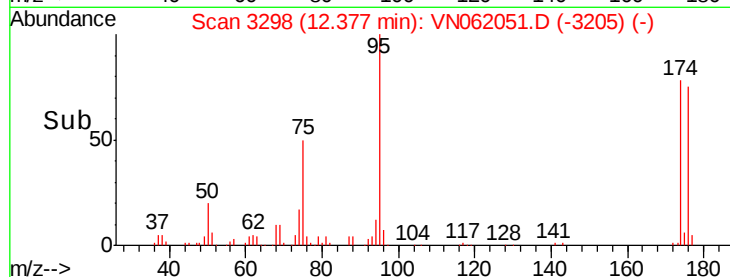
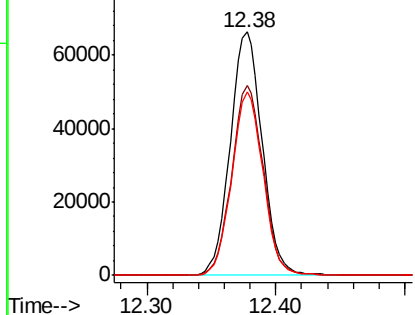
#62
4-Bromofluorobenzene
Concen: 47.677 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062051.D
Acq: 23 Jun 2020 19:01

Instrument :
MSVOA_N
ClientSampleId :
LF001MW001-200615DL2

Tot Ion: 95 Resp: 113993
Ion Ratio Lower Upper
95 100
174 77.1 0.0 158.6
176 73.8 0.0 152.0

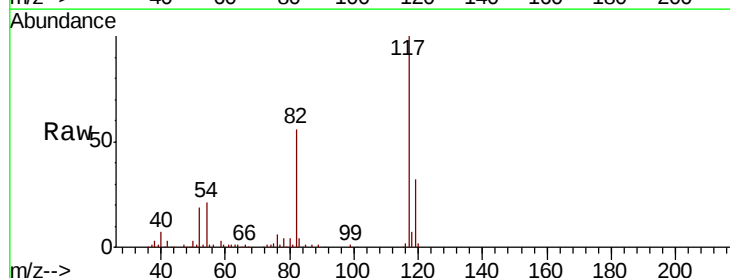


Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)
Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)
Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)

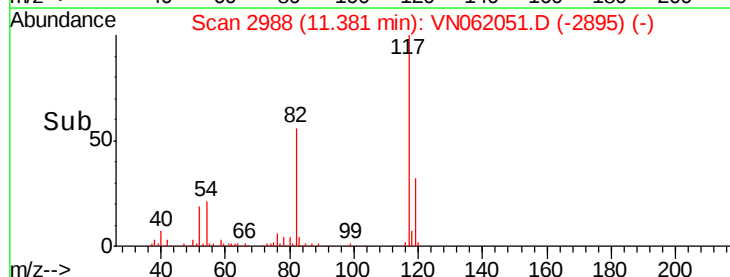
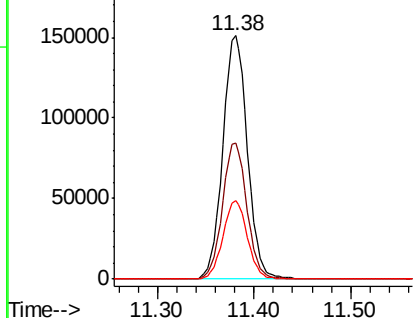


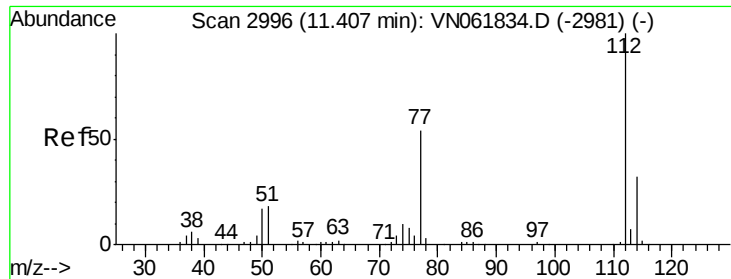
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062051.D
Acq: 23 Jun 2020 19:01

Tgt Ion: 117 Resp: 266184
Ion Ratio Lower Upper
117 100
82 56.0 42.6 64.0
119 32.2 24.7 37.1



Abundance Ion 116.90 (116.60 to 117.60): VN061834.D (-2973) (-)
Ion 82.00 (81.70 to 82.70): VN061834.D (-2973) (-)
Ion 118.90 (118.60 to 119.60): VN061834.D (-2973) (-)

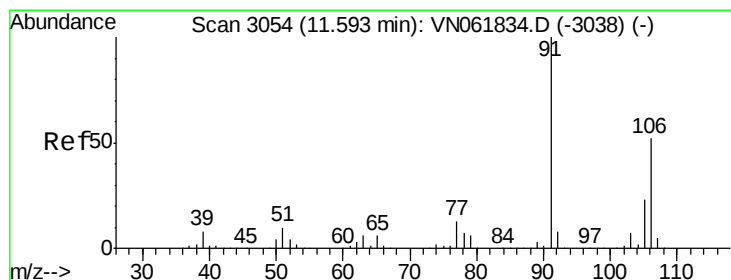
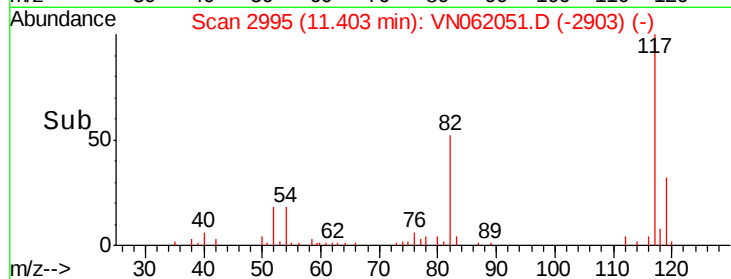
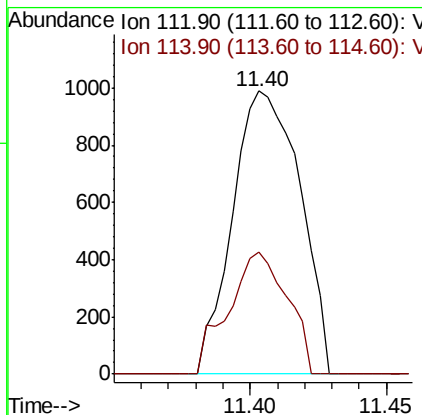
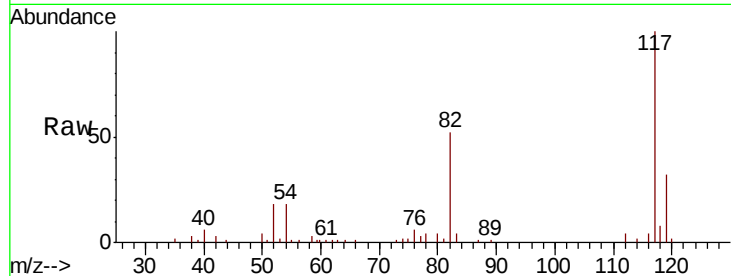




#65
Chlorobenzene
Concen: 0.303 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN062051.D
Acq: 23 Jun 2020 19:01

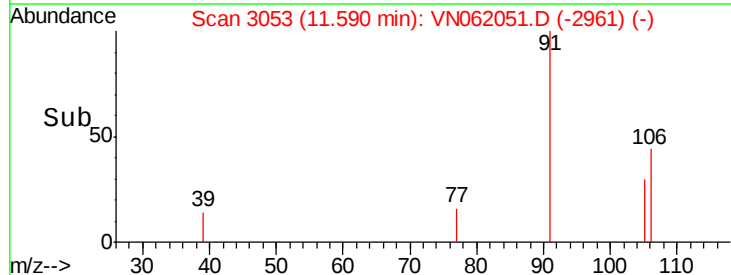
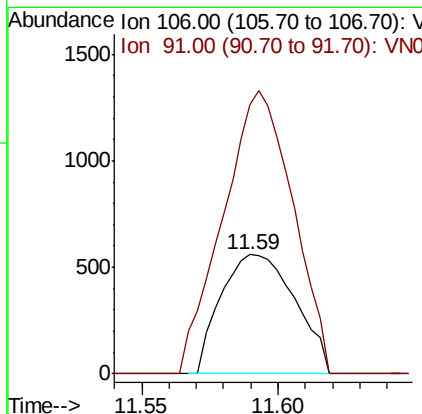
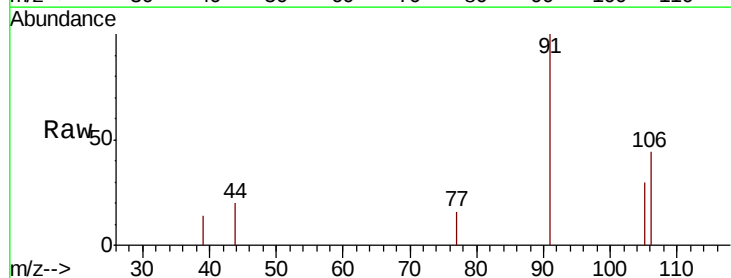
Instrument :
MSVOA_N
ClientSampleId :
LF001MW001-200615DL2

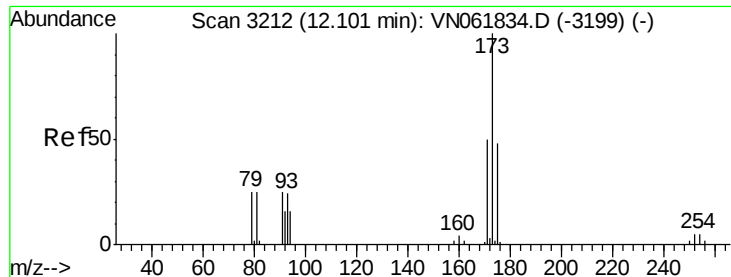
Tot Ion:112 Resp: 1702
Ion Ratio Lower Upper
112 100
114 43.3 25.8 38.6#



#68
m/p-Xylenes
Concen: 0.291 ug/l
RT: 11.59 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN062051.D
Acq: 23 Jun 2020 19:01

Tgt Ion:106 Resp: 1056
Ion Ratio Lower Upper
106 100
91 224.0 157.0 235.6





#71

Bromoform

Concen: 0.730 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

LF001MW001-200615DL2

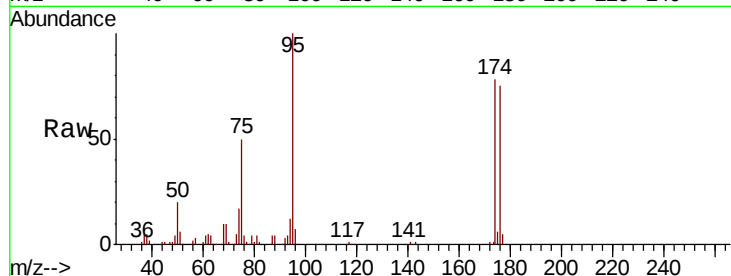
Tot Ion:173 Resp: 1043

Ion Ratio Lower Upper

173 100

175 510.7 23.9 71.7#

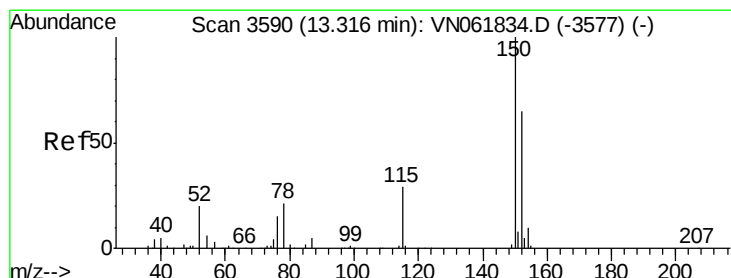
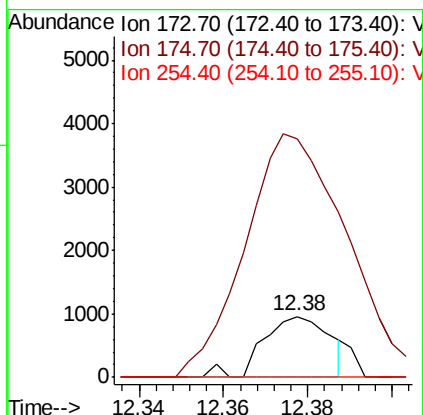
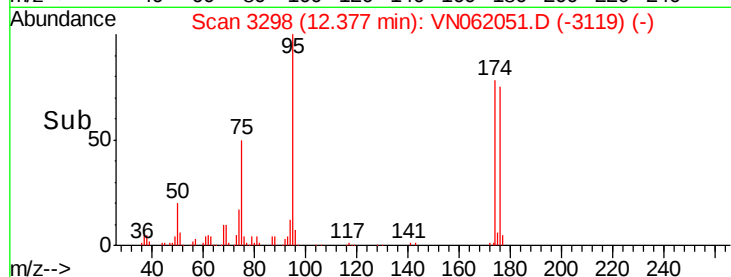
254 0.0 0.0 0.0



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: VN062051.D

Acq: 23 Jun 2020 19:01

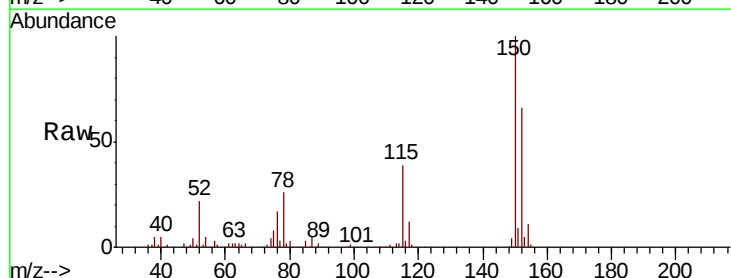
Tgt Ion:152 Resp: 101920

Ion Ratio Lower Upper

152 100

115 58.9 29.1 87.3

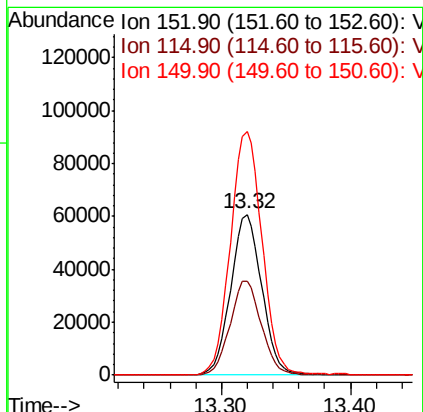
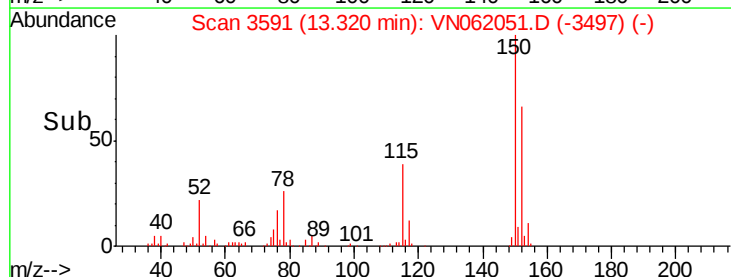
150 154.1 0.0 347.6

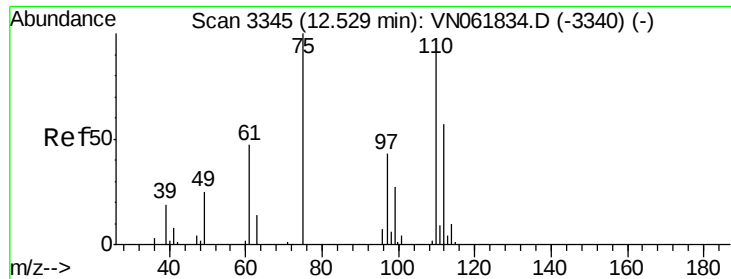


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 28.759 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

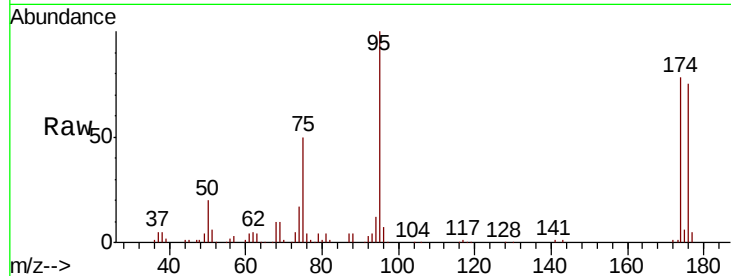
LF001MW001-200615DL2

Tot Ion: 75 Resp: 57546

Ion Ratio Lower Upper

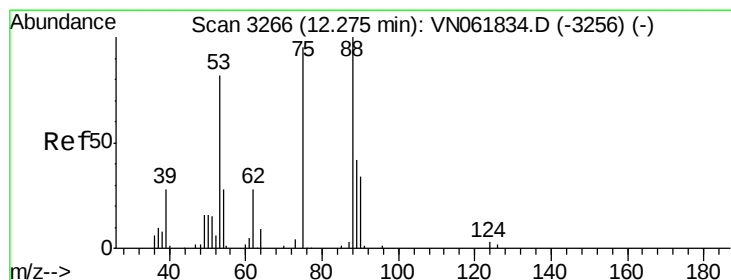
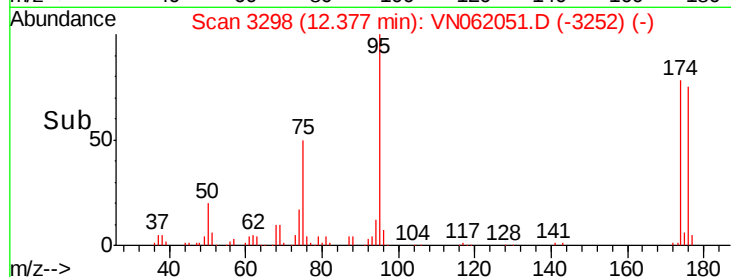
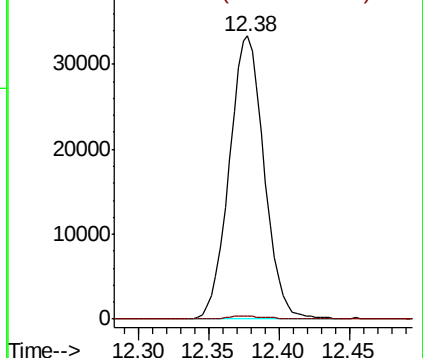
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 78.439 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062051.D

Acq: 23 Jun 2020 19:01

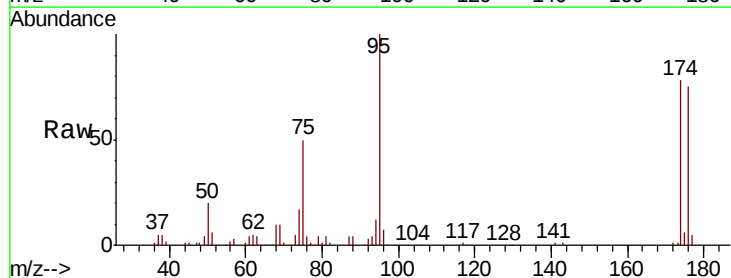
Tgt Ion: 75 Resp: 57546

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

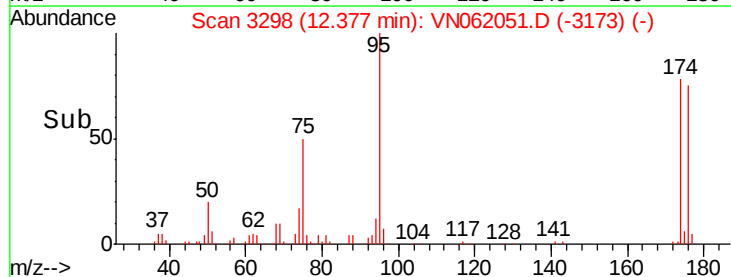
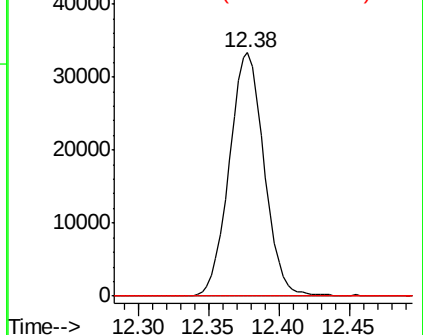
89 0.0 36.0 54.0#

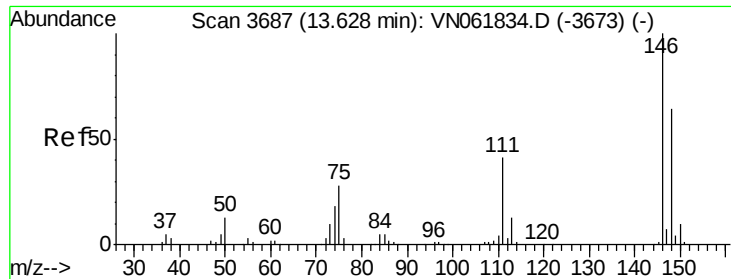


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

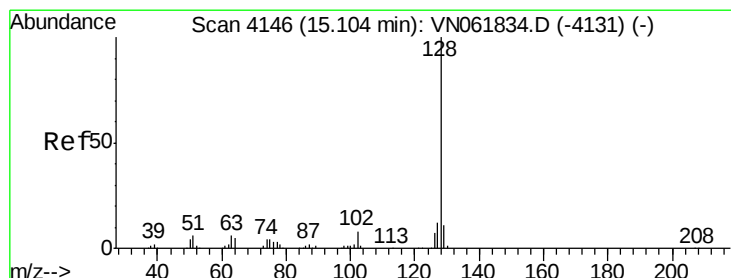
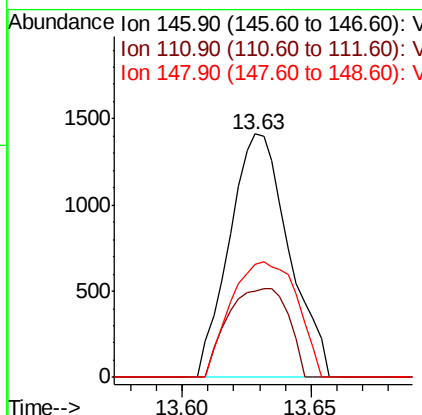
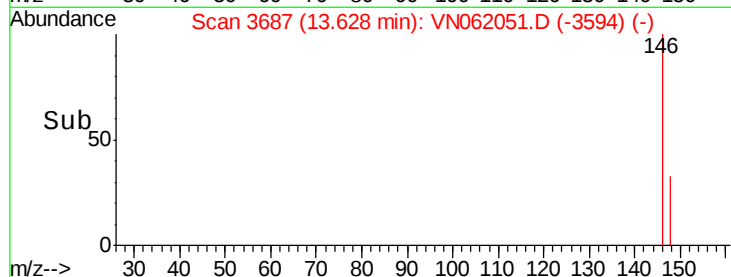
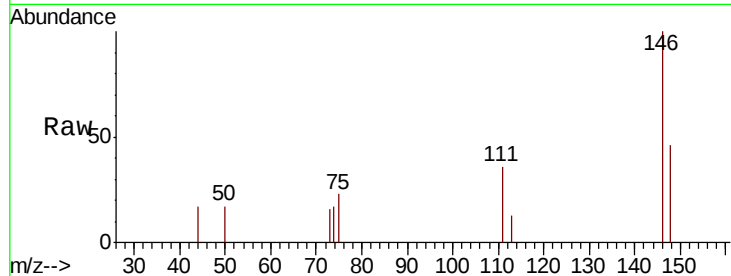




#91
 1,2-Dichlorobenzene
 Concen: 0.707 ug/l
 RT: 13.63 min Scan# 3687
 Delta R.T. -0.00 min
 Lab File: VN062051.D
 Acq: 23 Jun 2020 19:01

Instrument :
 MSVOA_N
 ClientSampleId :
 LF001MW001-200615DL2

Tot Ion:146 Resp: 2269
 Ion Ratio Lower Upper
 146 100
 111 37.4 20.4 61.2
 148 52.9 31.8 95.4



#95
 Naphthalene
 Concen: 3.557 ug/l
 RT: 15.11 min Scan# 4148
 Delta R.T. 0.01 min
 Lab File: VN062051.D
 Acq: 23 Jun 2020 19:01

Tgt Ion:128 Resp: 404
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.6 13.0#

