

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056113.D
 Acq On : 7 Jun 2019 21:25
 Operator : JC/SP
 Sample : K3203-06DL 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW100-190604DL

Quant Time: Jun 08 05:14:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

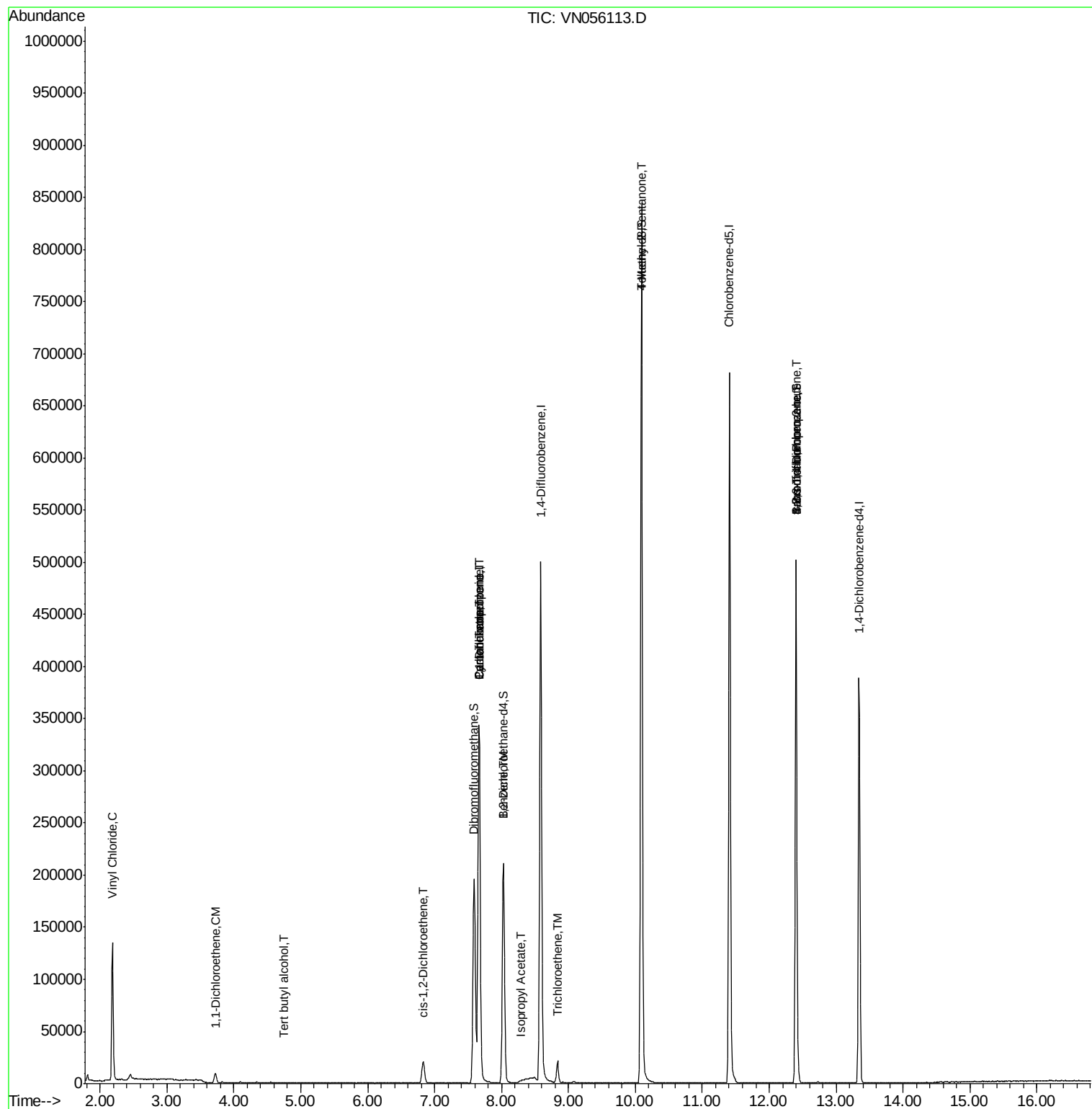
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	330474	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	496508	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	446713	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	122787	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	173734	52.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.90%	
35) Dibromofluoromethane	7.59	113	152777	50.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.30%	
50) Toluene-d8	10.09	98	628098	53.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.16%	
62) 4-Bromofluorobenzene	12.40	95	179442	45.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.02%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.18	62	123594	34.394	ug/l	99
11) Tert butyl alcohol	4.75	59	260	0.455	ug/l #	74
12) 1,1-Dichloroethene	3.73	96	5190	1.871	ug/l	89
27) cis-1,2-Dichloroethene	6.83	96	14967	4.283	ug/l	89
31) Cyclohexane	7.66	56	4990	0.958	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18653	4.369	ug/l #	47
38) Carbon Tetrachloride	7.66	117	26414	6.711	ug/l #	14
40) Benzene	8.04	78	5946	0.459	ug/l	91
43) Isopropyl Acetate	8.27	43	1385	0.225	ug/l #	53
44) Trichloroethene	8.83	130	8611	2.311	ug/l	95
51) 4-Methyl-2-Pentanone	10.09	43	2722	0.707	ug/l #	1
71) Bromoform	12.40	173	1200	3.182	ug/l #	1
73) Isopropylbenzene	12.25	105	471	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	81966	36.279	ug/l #	100
79) 2-Chlorotoluene	12.40	91	420	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	81966	120.815	ug/l #	15

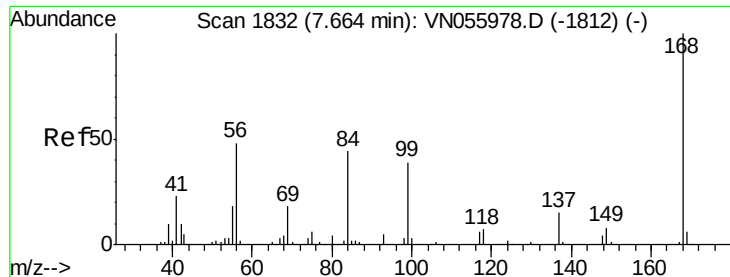
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056113.D

Acq: 7 Jun 2019 21:25

Instrument :

MSVOA_N

ClientSampleId :

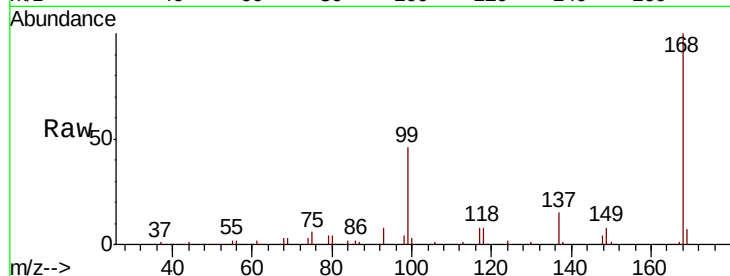
LF015MW100-190604DL

Tot Ion:168 Resp: 330474

Ion Ratio Lower Upper

168 100

99 45.9 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

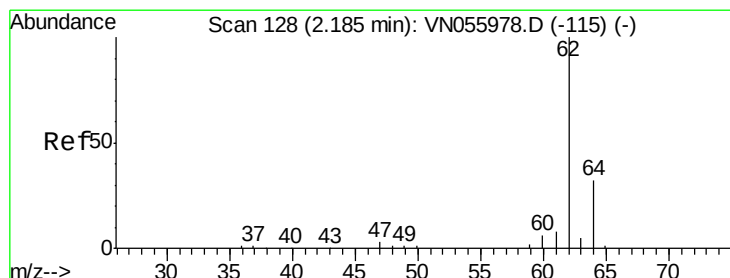
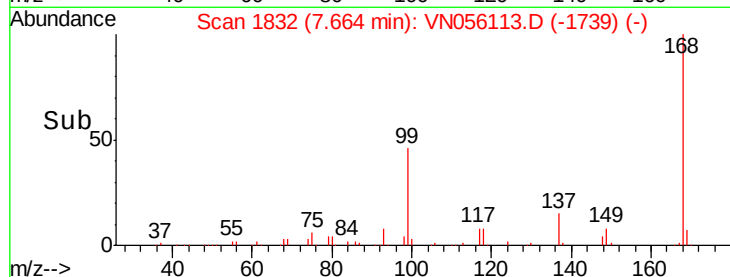
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#4

Vinyl Chloride

Concen: 34.394 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN056113.D

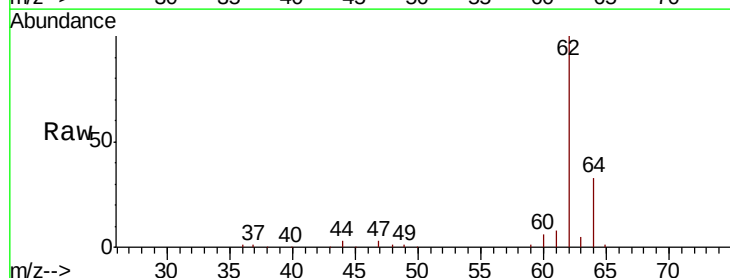
Acq: 7 Jun 2019 21:25

Tgt Ion: 62 Resp: 123594

Ion Ratio Lower Upper

62 100

64 32.7 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN

2.18

80000

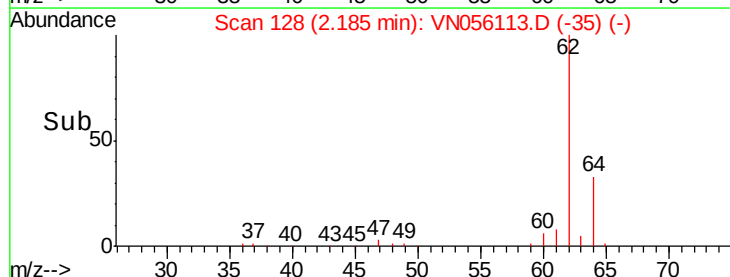
60000

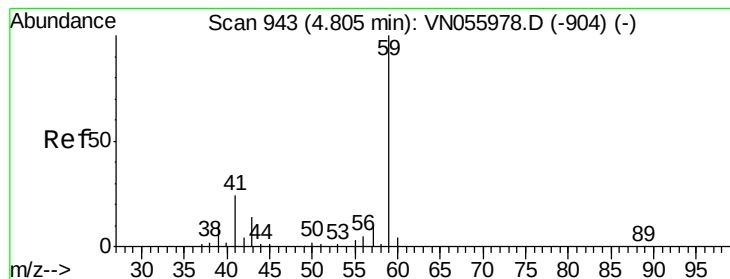
40000

20000

0

Time--> 2.10 2.15 2.20 2.25 2.30



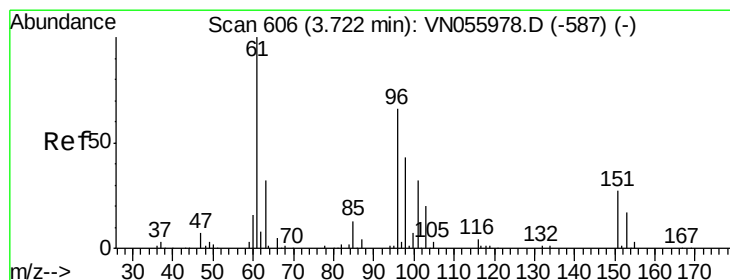
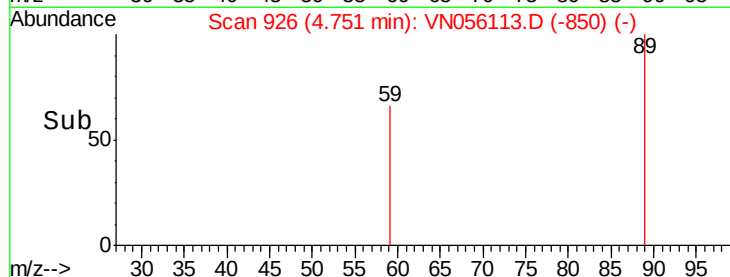
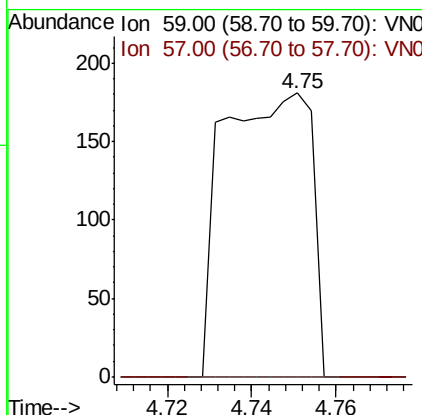
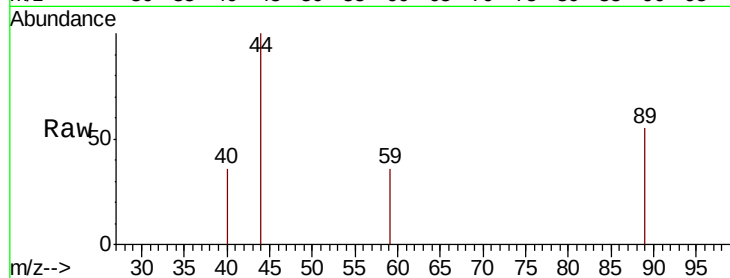


#11

Tert butyl alcohol
 Concen: 0.455 ug/l
 RT: 4.75 min Scan# 926
 Delta R.T. -0.05 min
 Lab File: VN056113.D
 Acq: 7 Jun 2019 21:25

Instrument :
 MSVOA_N
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 LF015MW100-190604DL

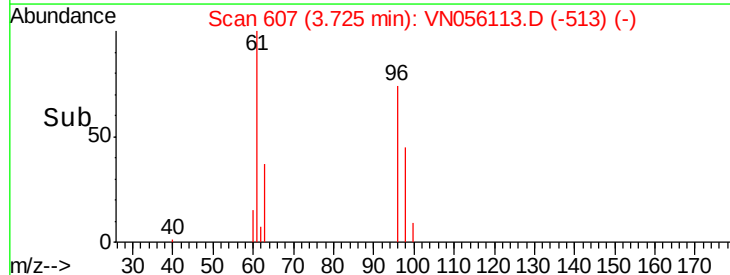
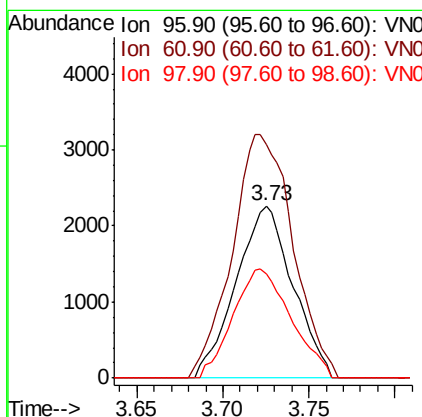
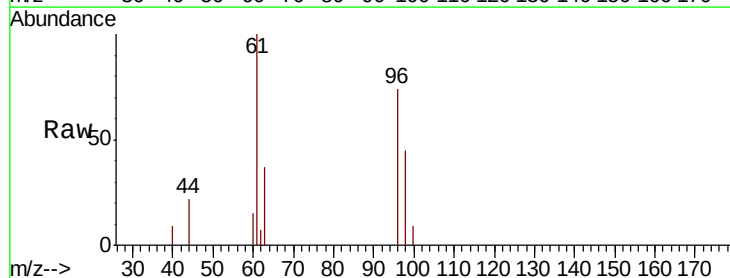
Tot Ion: 59 Resp: 260
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

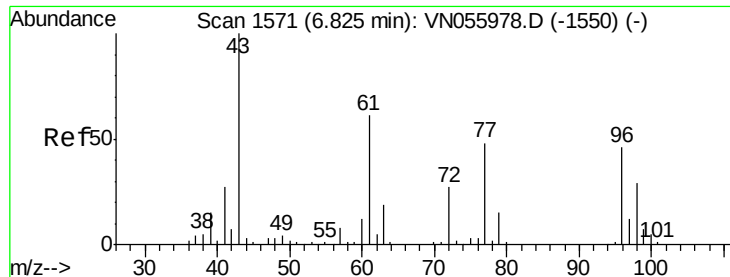


#12

1,1-Dichloroethene
 Concen: 1.871 ug/l
 RT: 3.73 min Scan# 607
 Delta R.T. 0.00 min
 Lab File: VN056113.D
 Acq: 7 Jun 2019 21:25

Tgt Ion: 96 Resp: 5190
 Ion Ratio Lower Upper
 96 100
 61 136.0 123.2 184.8
 98 60.7 50.4 75.6





#27

cis-1,2-Dichloroethene

Concen: 4.283 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN056113.D

Acq: 7 Jun 2019 21:25

Instrument :

MSVOA_N

ClientSampleId :

LF015MW100-190604DL

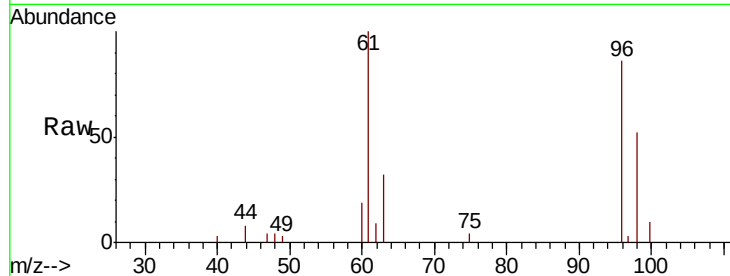
Tot Ion: 96 Resp: 14967

Ion Ratio Lower Upper

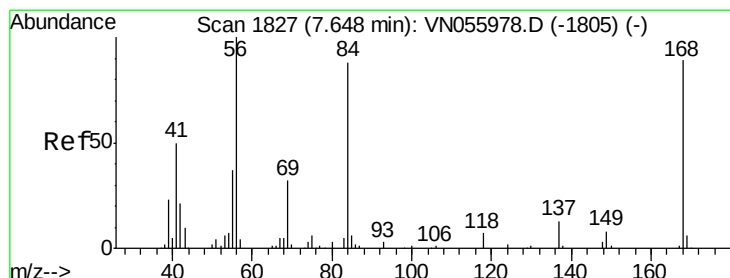
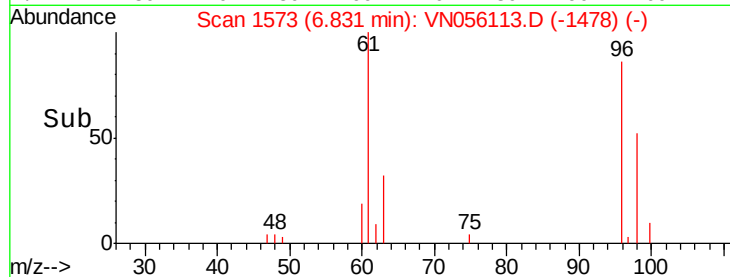
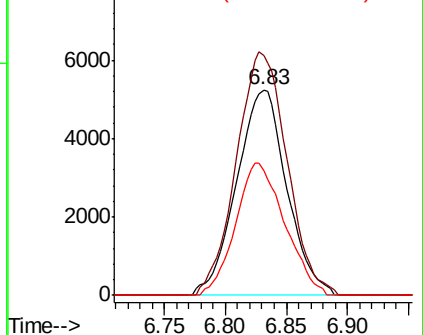
96 100

61 119.5 0.0 275.8

98 62.9 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 0.958 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN056113.D

Acq: 7 Jun 2019 21:25

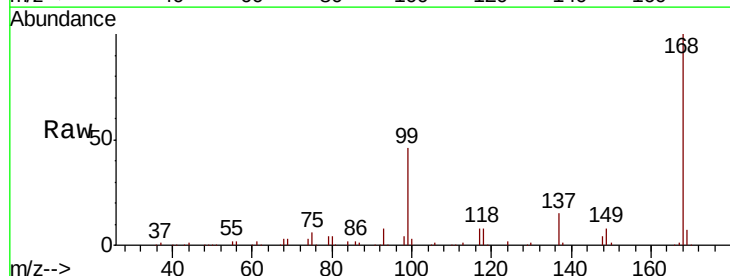
Tgt Ion: 56 Resp: 4990

Ion Ratio Lower Upper

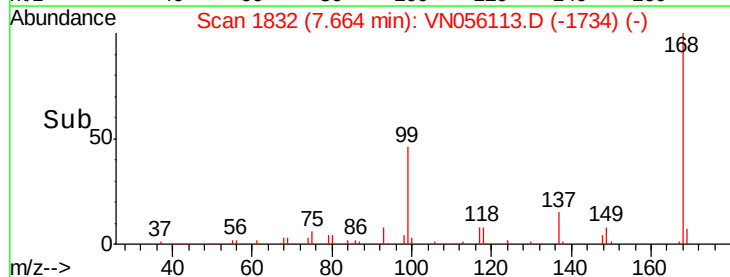
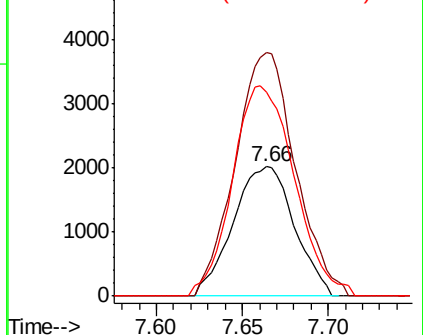
56 100

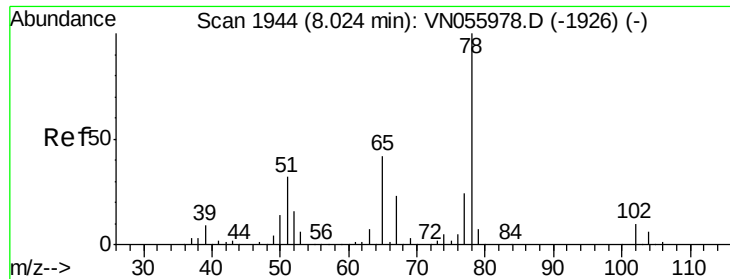
69 188.5 25.6 38.4#

84 157.9 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

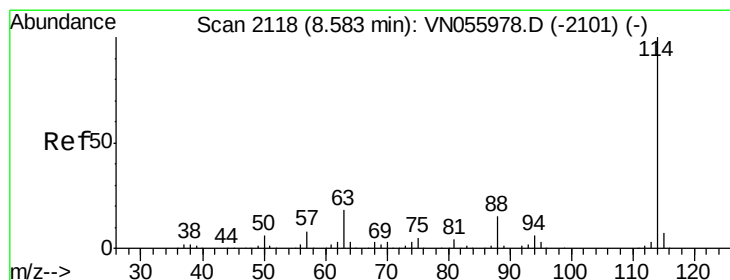
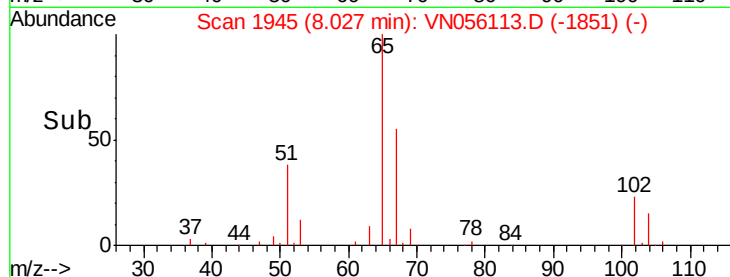
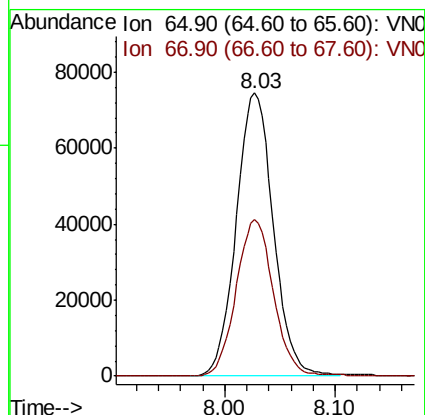
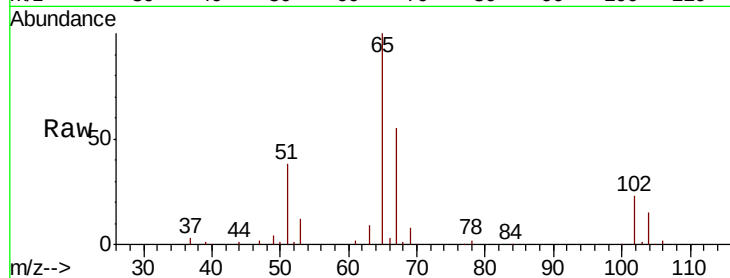




#33
 1,2-Dichloroethane-d4
 Concen: 52.946 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056113.D
 Acq: 7 Jun 2019 21:25

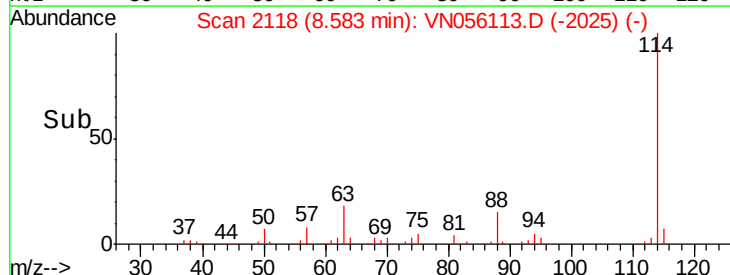
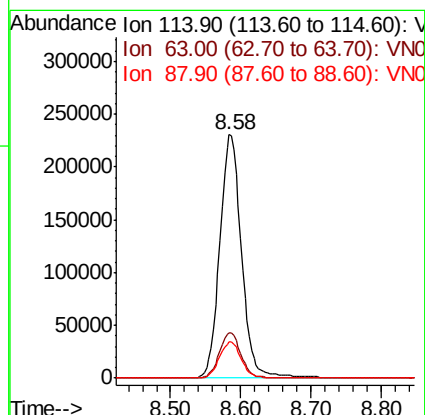
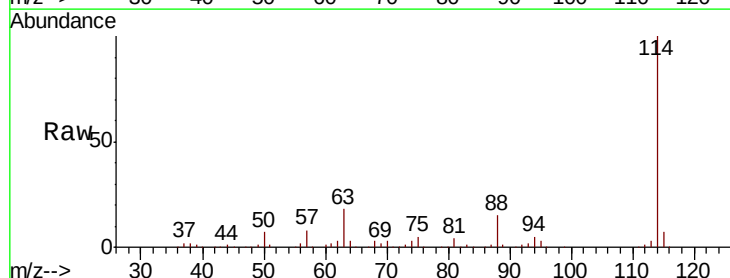
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW100-190604DL

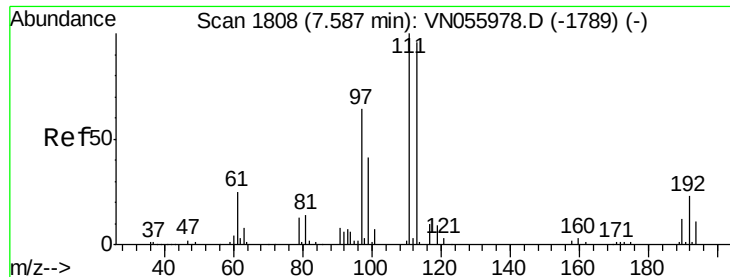
Tot Ion: 65 Resp: 173734
 Ion Ratio Lower Upper
 65 100
 67 55.6 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056113.D
 Acq: 7 Jun 2019 21:25

Tgt Ion: 114 Resp: 496508
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 39.2
 88 14.7 0.0 31.0

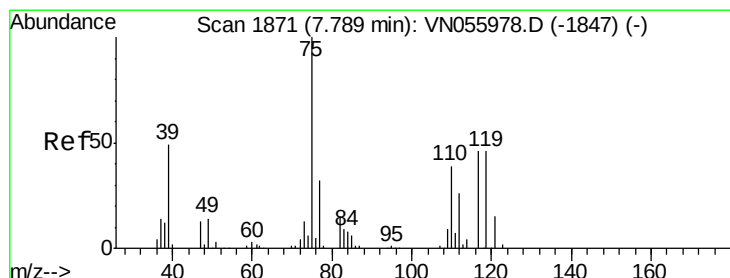
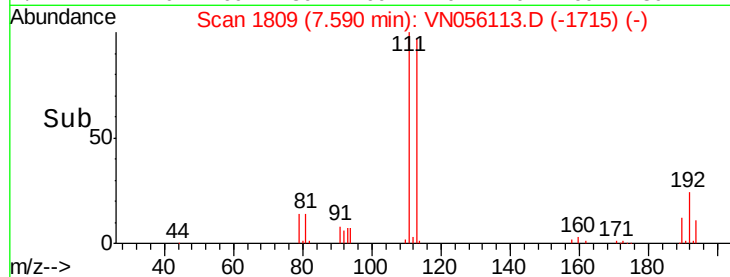
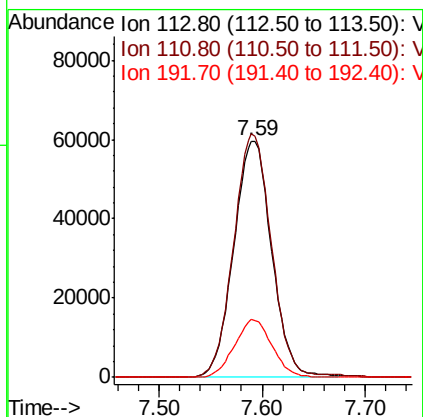
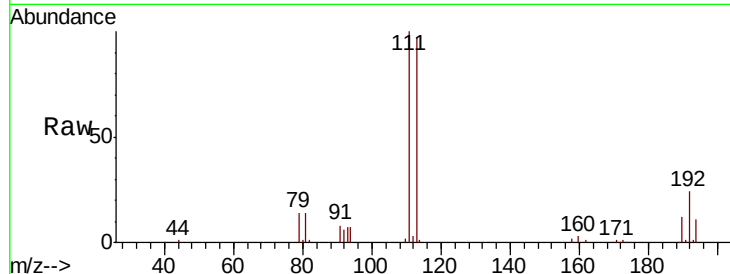




#35
 Dibromofluoromethane
 Concen: 50.153 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056113.D
 Acq: 7 Jun 2019 21:25

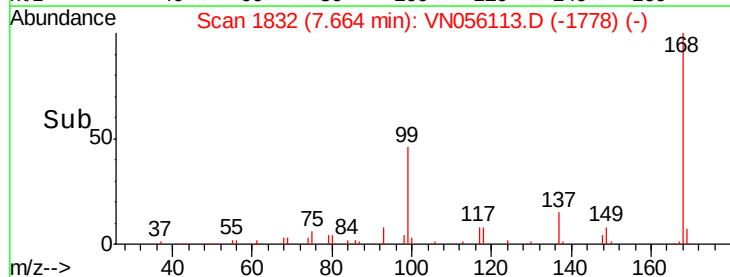
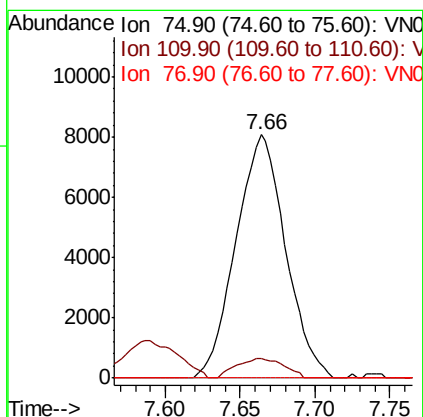
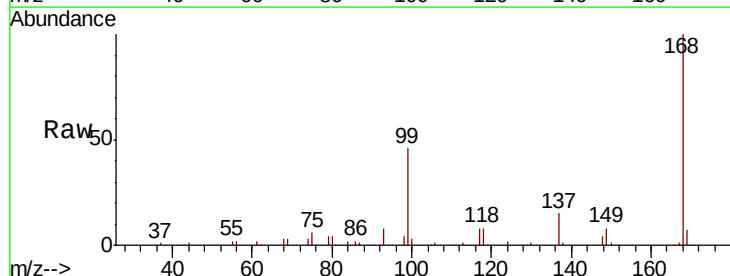
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW100-190604DL

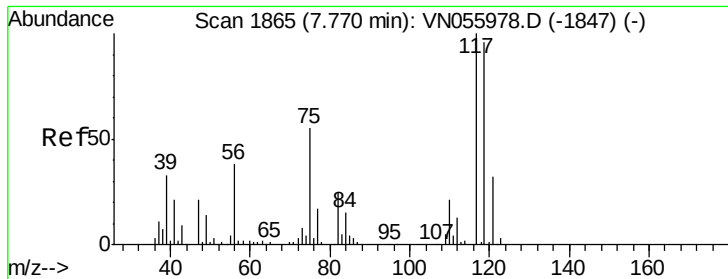
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.9	122.9
192	24.1	19.5	29.3



#36
 1,1-Dichloropropene
 Concen: 4.369 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056113.D
 Acq: 7 Jun 2019 21:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	19.0	57.0#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.711 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056113.D

Acq: 7 Jun 2019 21:25

Instrument :

MSVOA_N

ClientSampleId :

LF015MW100-190604DL

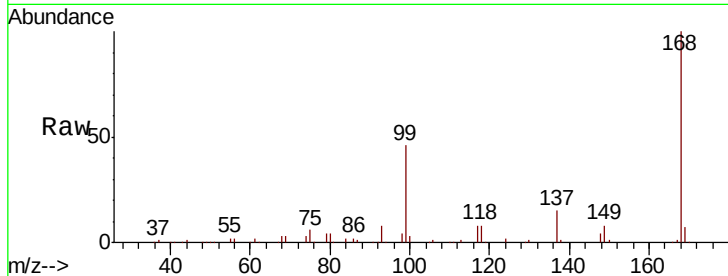
Tot Ion:117 Resp: 26414

Ion Ratio Lower Upper

117 100

119 3.9 79.0 118.6#

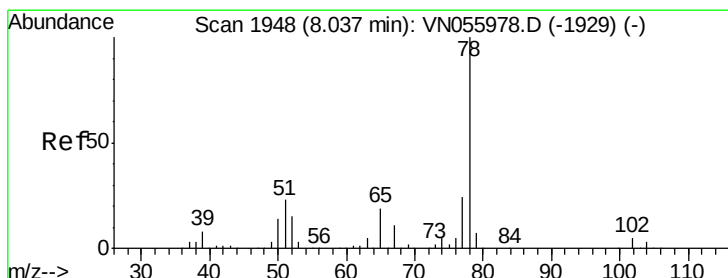
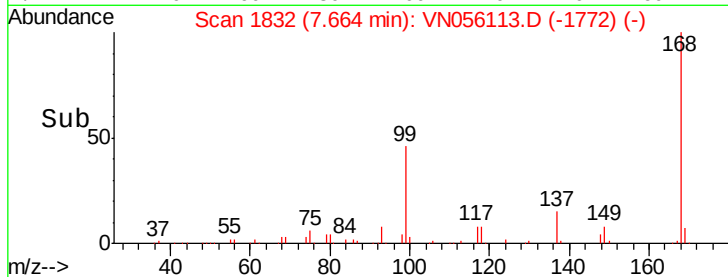
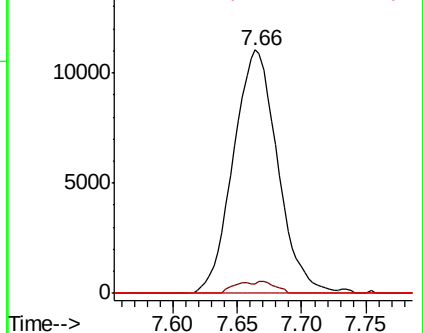
121 0.0 24.7 37.1#



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



#40

Benzene

Concen: 0.459 ug/l

RT: 8.04 min Scan# 1948

Delta R.T. 0.00 min

Lab File: VN056113.D

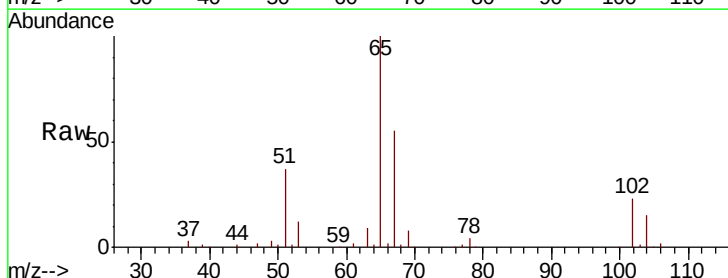
Acq: 7 Jun 2019 21:25

Tgt Ion: 78 Resp: 5946

Ion Ratio Lower Upper

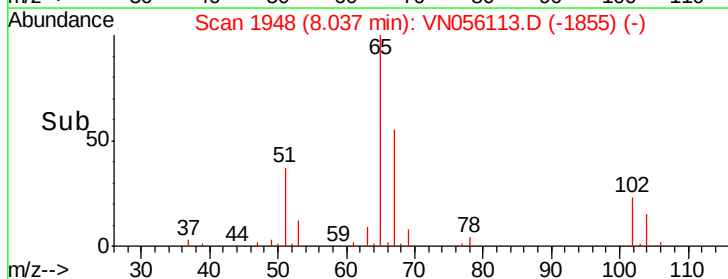
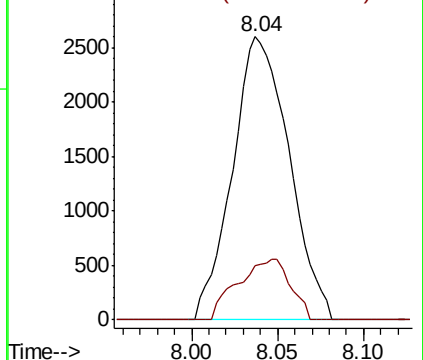
78 100

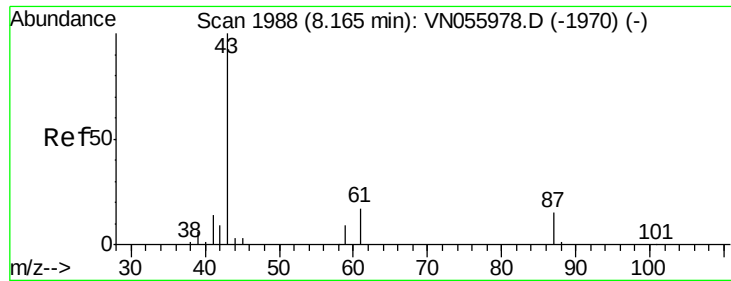
77 19.2 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#43

Isopropyl Acetate

Concen: 0.225 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN056113.D

Acq: 7 Jun 2019 21:25

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LF015MW100-190604DL

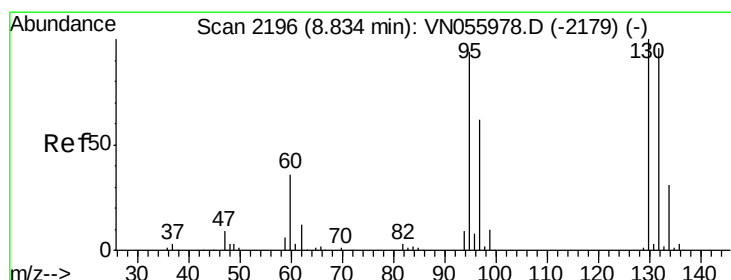
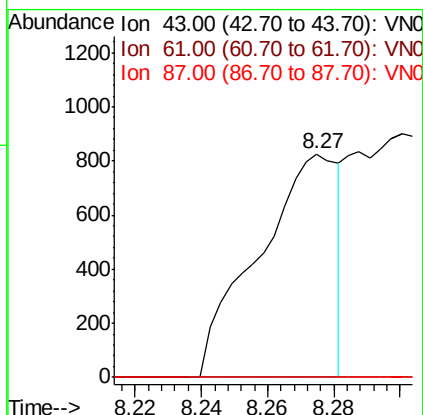
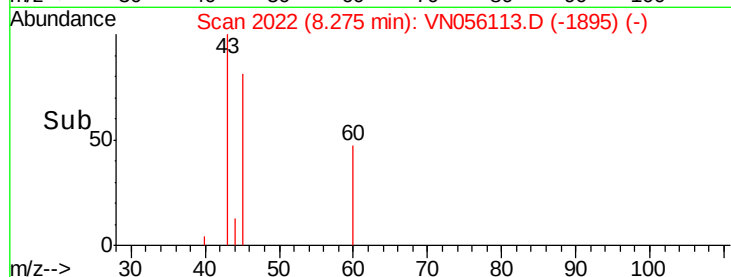
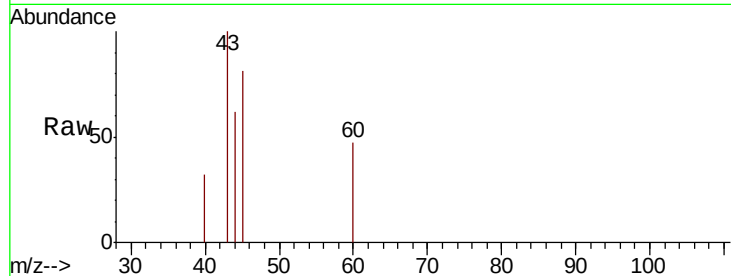
Tot Ion: 43 Resp: 1385

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



#44

Trichloroethene

Concen: 2.311 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056113.D

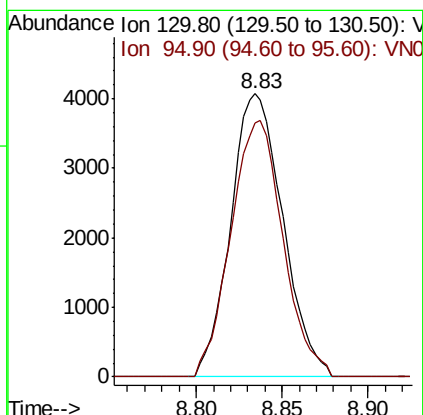
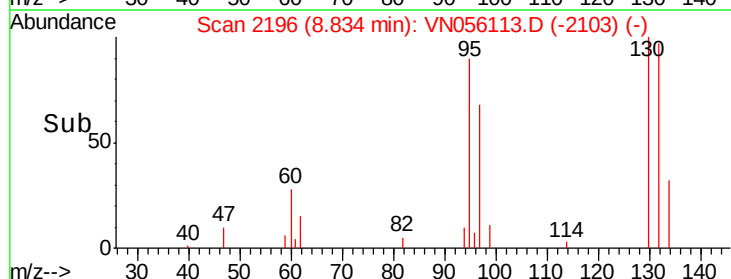
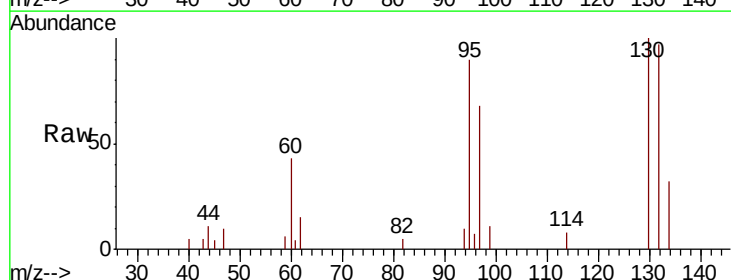
Acq: 7 Jun 2019 21:25

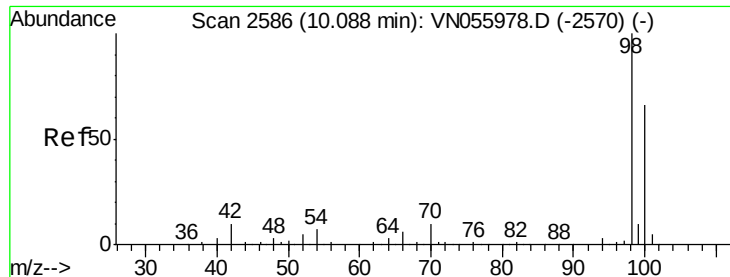
Tgt Ion:130 Resp: 8611

Ion Ratio Lower Upper

130 100

95 89.6 0.0 188.0





#50

Toluene-d8

Concen: 53.583 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056113.D

Acq: 7 Jun 2019 21:25

Instrument :

MSVOA_N

ClientSampleId :

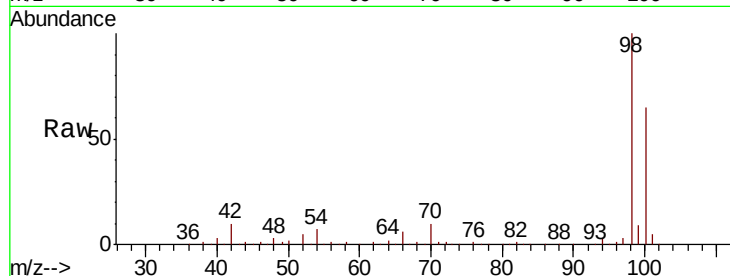
LF015MW100-190604DL

Tot Ion: 98 Resp: 628098

Ion Ratio Lower Upper

98 100

100 64.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

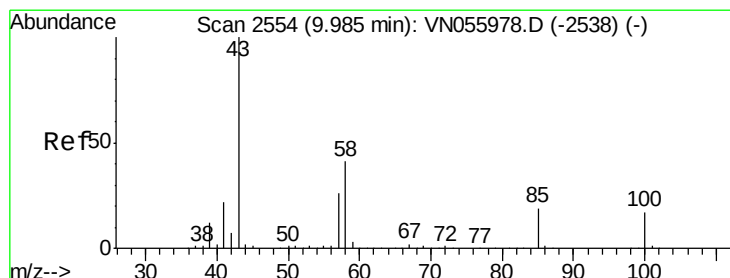
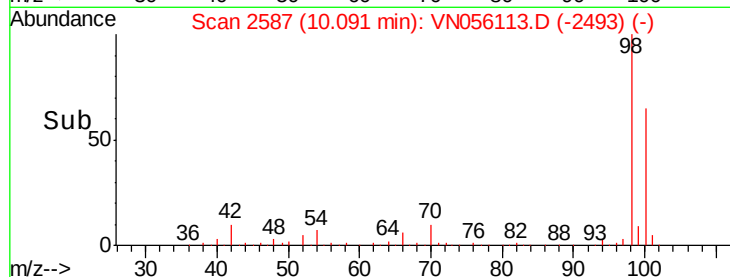
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.707 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.10 min

Lab File: VN056113.D

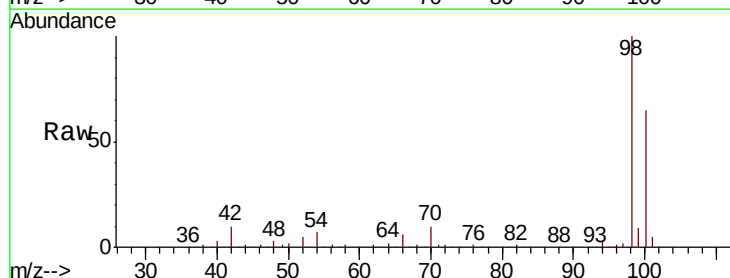
Acq: 7 Jun 2019 21:25

Tgt Ion: 43 Resp: 2722

Ion Ratio Lower Upper

43 100

58 163.5 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)

10.09

3000

2500

2000

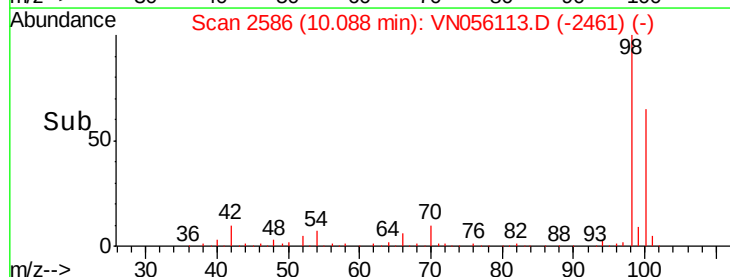
1500

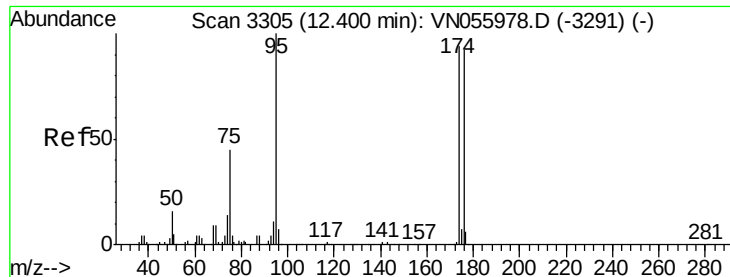
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.014 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056113.D

Acq: 7 Jun 2019 21:25

Instrument :

MSVOA_N

ClientSampleId :

LF015MW100-190604DL

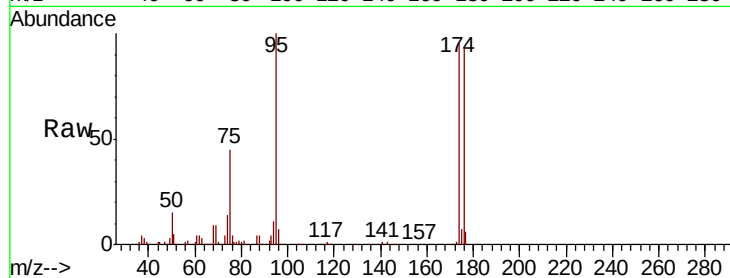
Tot Ion: 95 Resp: 179442

Ion Ratio Lower Upper

95 100

174 96.7 0.0 191.0

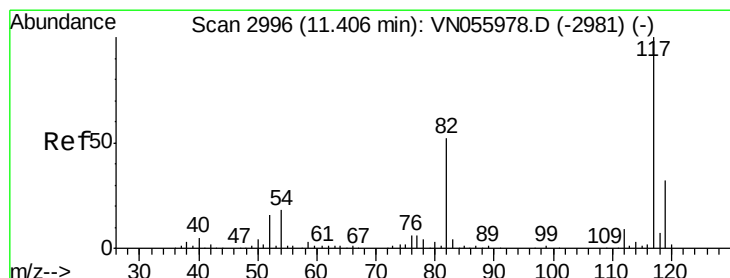
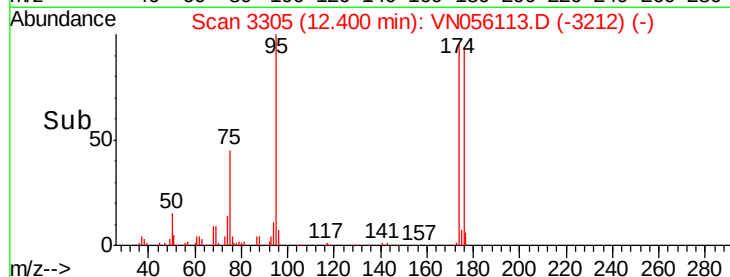
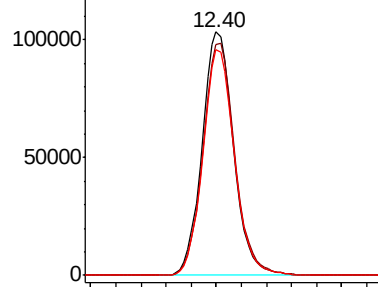
176 93.0 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056113.D

Acq: 7 Jun 2019 21:25

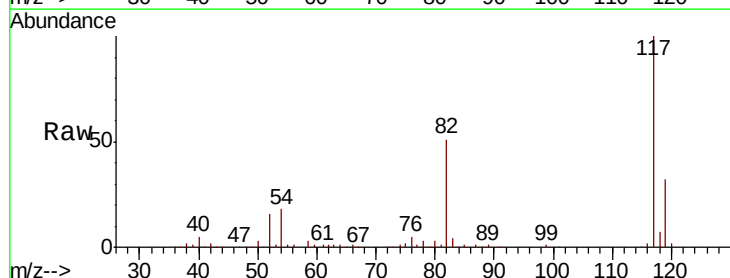
Tgt Ion: 117 Resp: 446713

Ion Ratio Lower Upper

117 100

82 51.5 41.8 62.8

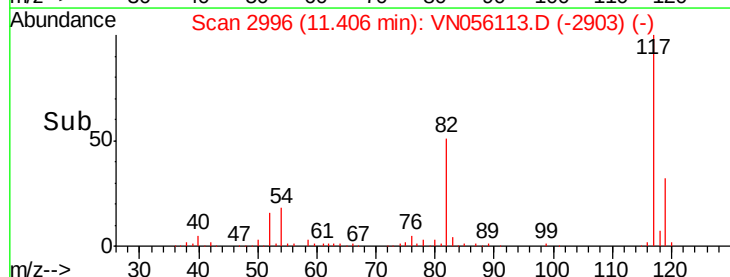
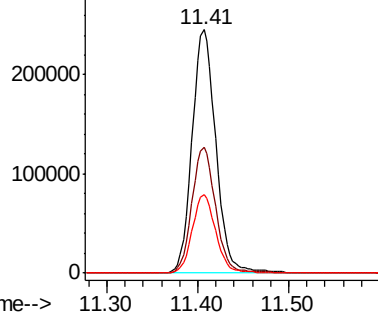
119 32.3 25.4 38.0

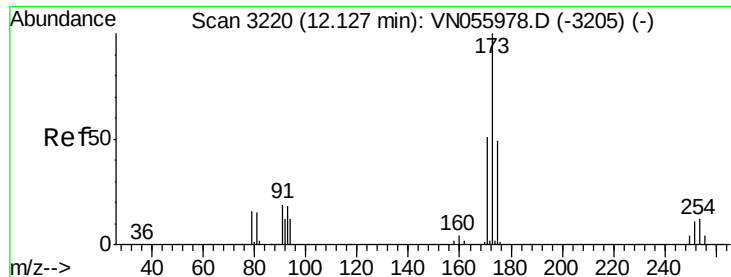


Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)





#71

Bromoform

Concen: 3.182 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN056113.D

Acq: 7 Jun 2019 21:25

Instrument :

MSVOA_N

ClientSampleId :

LF015MW100-190604DL

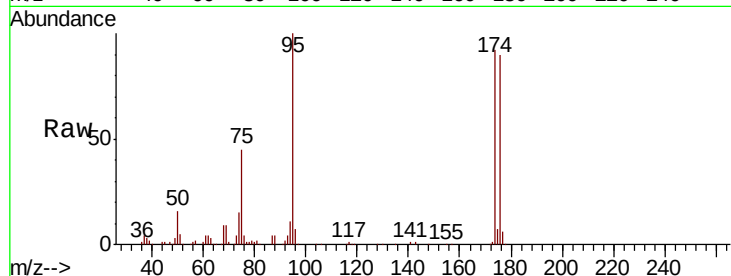
Tot Ion:173 Resp: 1200

Ion Ratio Lower Upper

173 100

175 903.7 24.3 72.8#

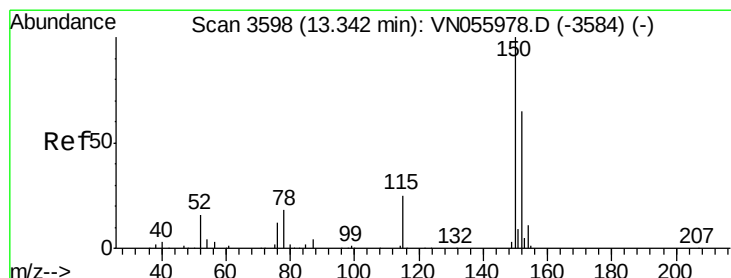
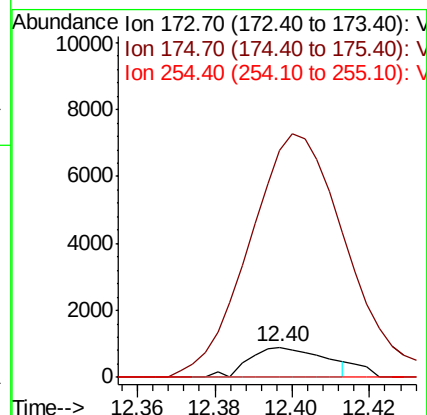
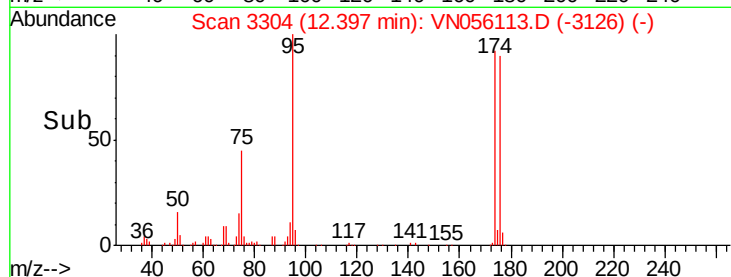
254 0.0 0.0 0.0



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056113.D

Acq: 7 Jun 2019 21:25

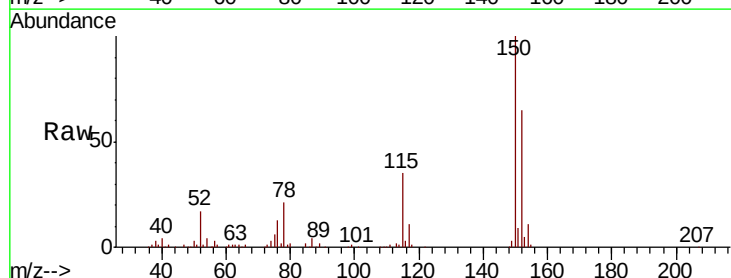
Tgt Ion:152 Resp: 122787

Ion Ratio Lower Upper

152 100

115 52.8 27.0 81.0

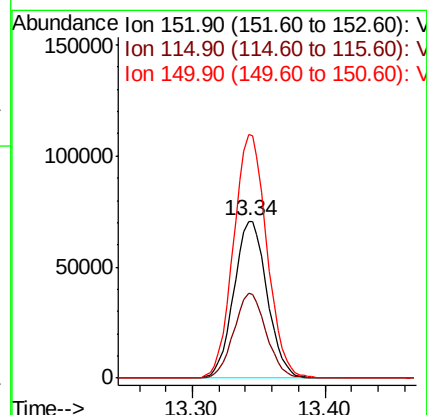
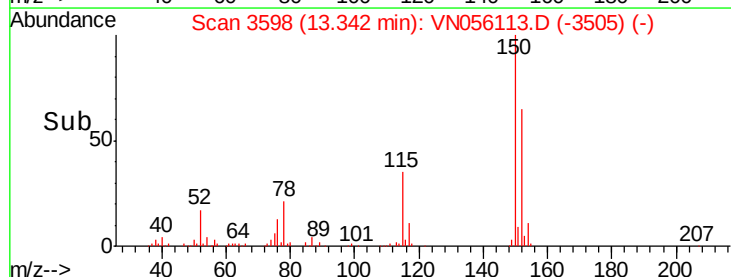
150 155.8 0.0 343.2

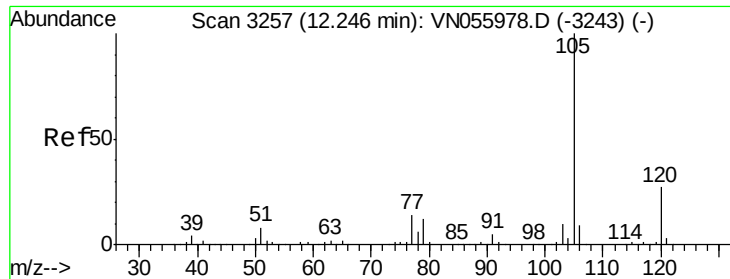


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.01 min

Lab File: VN056113.D

Acq: 7 Jun 2019 21:25

Instrument :

MSVOA_N

ClientSampleId :

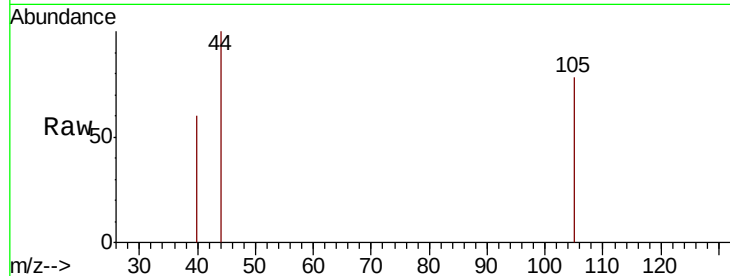
LF015MW100-190604DL

Tot Ion: 105 Resp: 471

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

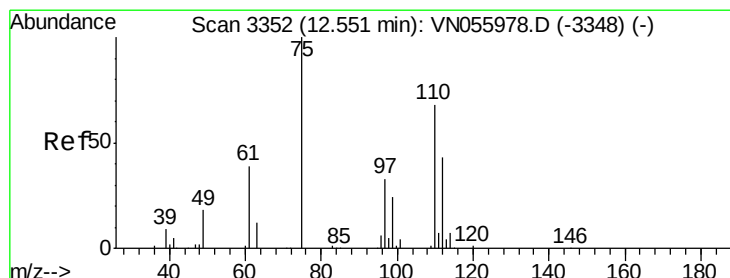
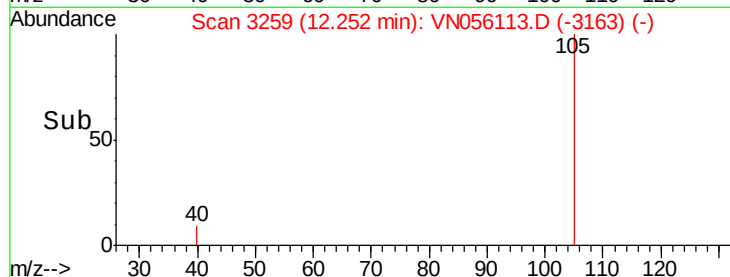
300

200

100

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 36.279 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056113.D

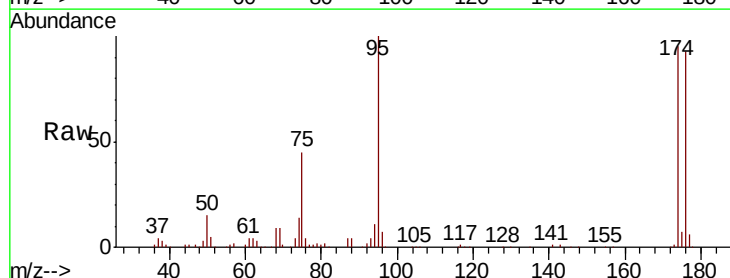
Acq: 7 Jun 2019 21:25

Tgt Ion: 75 Resp: 81966

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

12.40

50000

40000

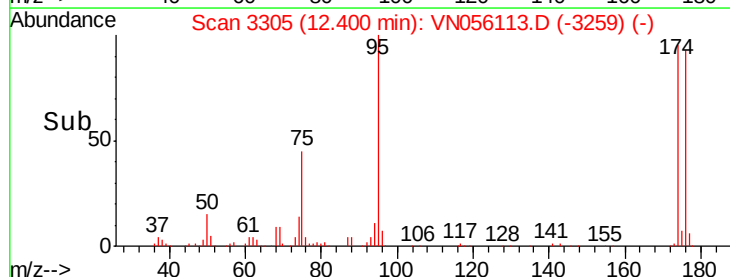
30000

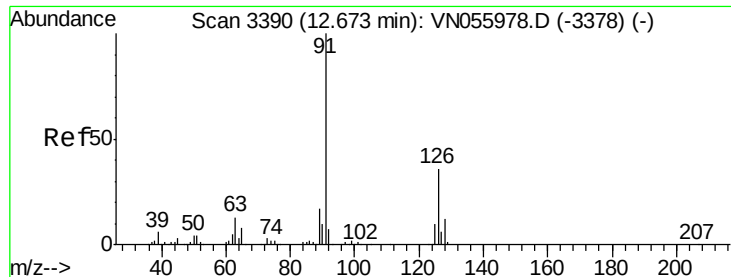
20000

10000

0

Time-->

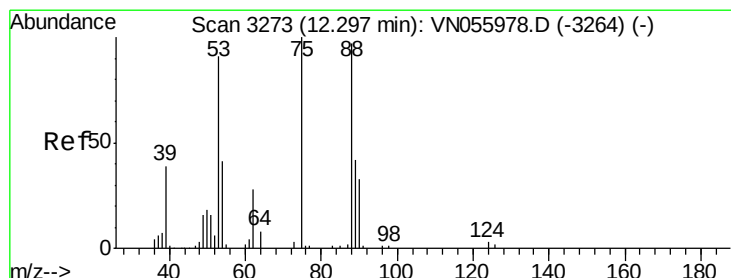
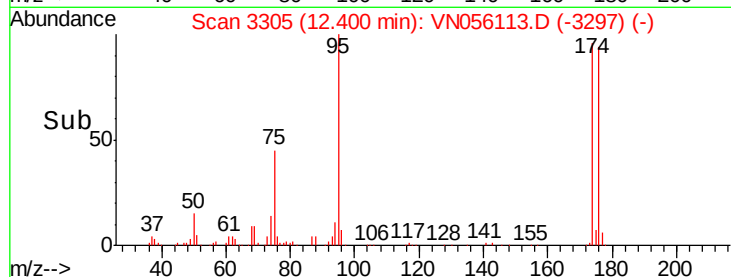
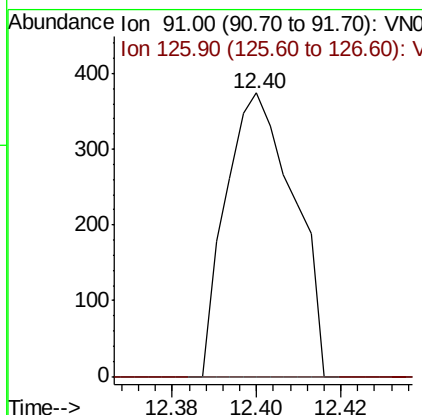
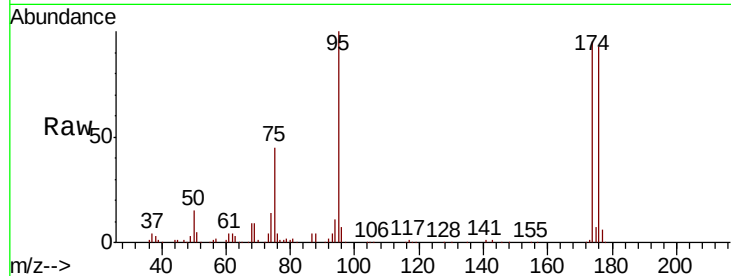




#79
2-Chlorotoluene
Concen: Below Cal
RT: 12.40 min Scan# 3305
Delta R.T. -0.27 min
Lab File: VN056113.D
Acq: 7 Jun 2019 21:25

Instrument :
MSVOA_N
ClientSampleId :
LF015MW100-190604DL

Tot Ion: 91 Resp: 420
Ion Ratio Lower Upper
91 100
126 0.0 18.1 54.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 120.815 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN056113.D
Acq: 7 Jun 2019 21:25

Tgt Ion: 75 Resp: 81966
Ion Ratio Lower Upper
75 100
53 0.0 68.1 102.1#
89 0.0 36.9 55.3#

