

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060719\
 Data File : VN056073.D
 Acq On : 7 Jun 2019 3:29
 Operator : JC/SP
 Sample : K3203-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SS043MW100-190604

Quant Time: Jun 07 05:34:26 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	397759	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	600036	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	551985	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	172595	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	212135	53.71	ug/l	0.00
Spiked Amount			Recovery	=	107.42%	
35) Dibromofluoromethane	7.59	113	187182	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
50) Toluene-d8	10.09	98	720874	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
62) 4-Bromofluorobenzene	12.40	95	229203	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	

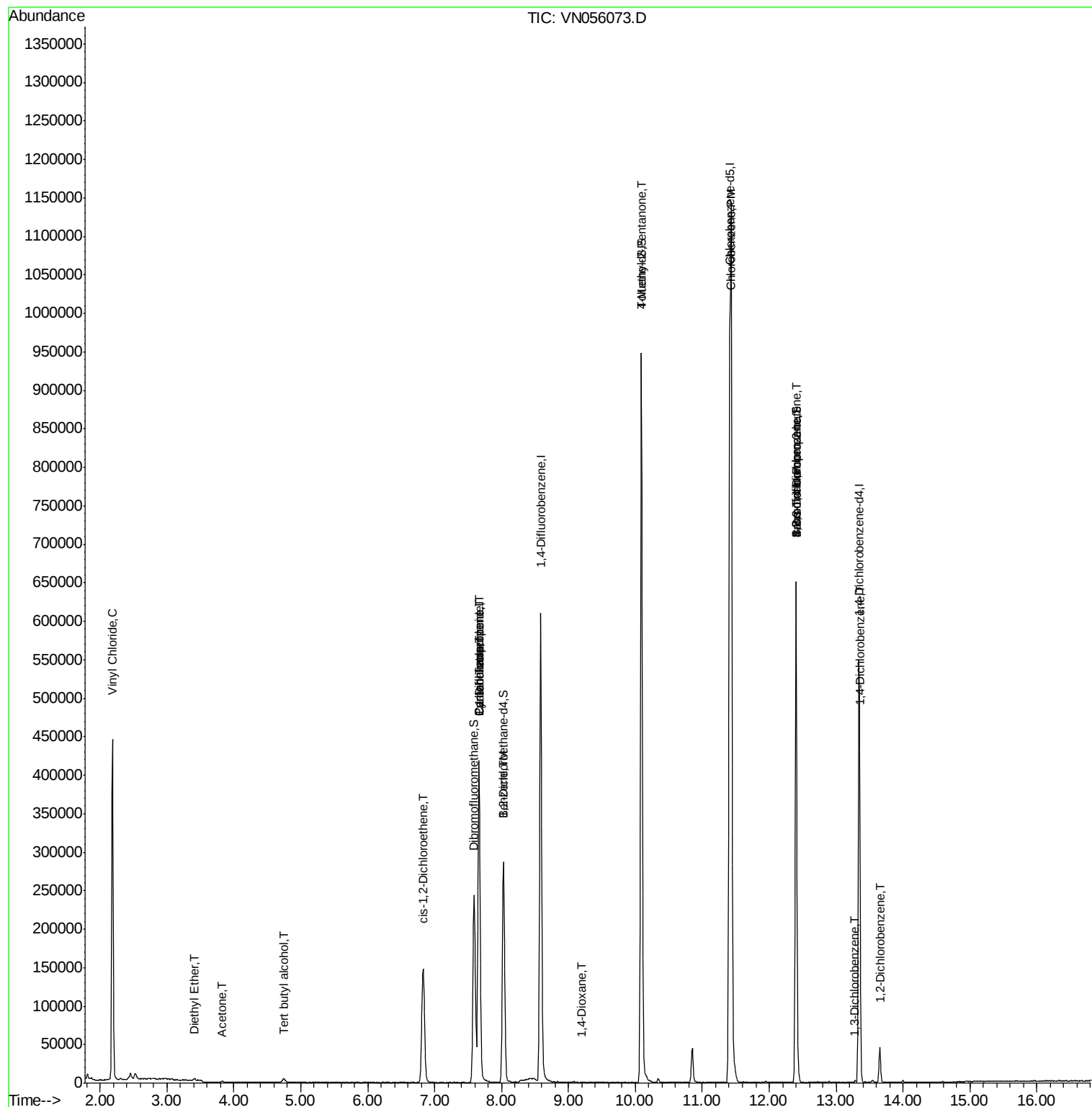
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.18	62	406148	93.906	ug/l	100
8) Diethyl Ether	3.41	74	823	0.362	ug/l #	23
11) Tert butyl alcohol	4.74	59	5526	8.040	ug/l #	74
16) Acetone	3.82	43	2558	1.354	ug/l	95
18) Methyl Acetate	4.33	43	847	Below Cal	#	81
27) cis-1,2-Dichloroethene	6.83	96	104563	24.863	ug/l	90
31) Cyclohexane	7.66	56	6354	1.014	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	22953	4.449	ug/l #	48
38) Carbon Tetrachloride	7.66	117	32689	6.872	ug/l #	15
40) Benzene	8.04	78	48997	3.127	ug/l	98
49) 1,4-Dioxane	9.20	88	416	5.295	ug/l #	24
51) 4-Methyl-2-Pentanone	10.09	43	3139	0.675	ug/l #	1
65) Chlorobenzene	11.43	112	638231	58.097	ug/l	100
71) Bromoform	12.40	173	1713	3.251	ug/l #	1
73) Isopropylbenzene	12.25	105	484	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	105419	33.194	ug/l #	100
79) 2-Chlorotoluene	12.67	91	836	Below Cal	#	63
81) trans-1,4-Dichloro-2-buten	12.40	75	105419	110.543	ug/l #	15
83) tert-Butylbenzene	12.99	119	306	Below Cal	#	48
87) 1,3-Dichlorobenzene	13.28	146	1590	0.278	ug/l	93
88) 1,4-Dichlorobenzene	13.36	146	11311	2.056	ug/l	85
91) 1,2-Dichlorobenzene	13.65	146	22890	3.964	ug/l	99

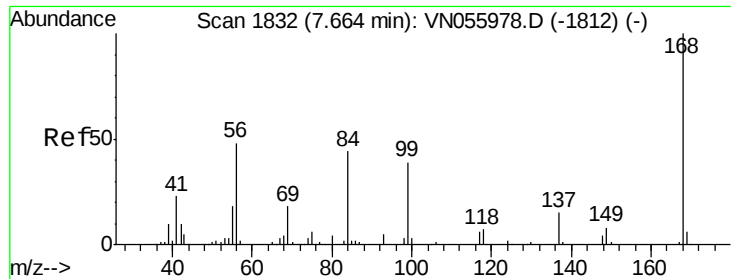
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056073.D

Acq: 7 Jun 2019 3:29

Instrument :

MSVOA_N

ClientSampleId :

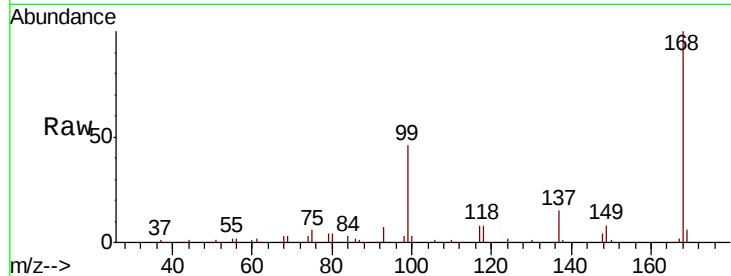
SS043MW100-190604

Tot Ion:168 Resp: 397759

Ion Ratio Lower Upper

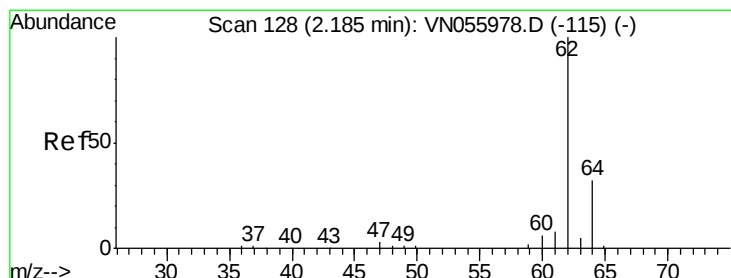
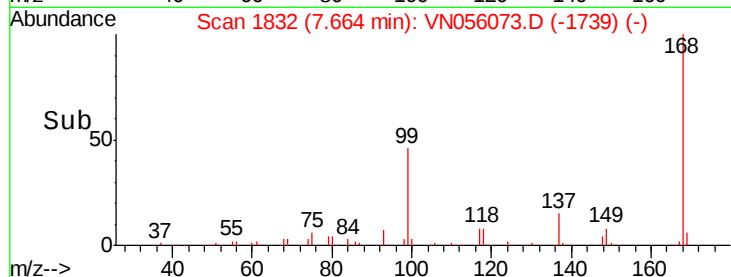
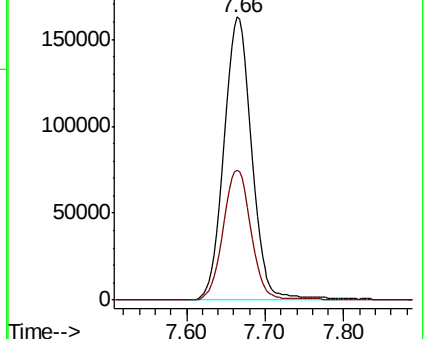
168 100

99 46.0 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#4

Vinyl Chloride

Concen: 93.906 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN056073.D

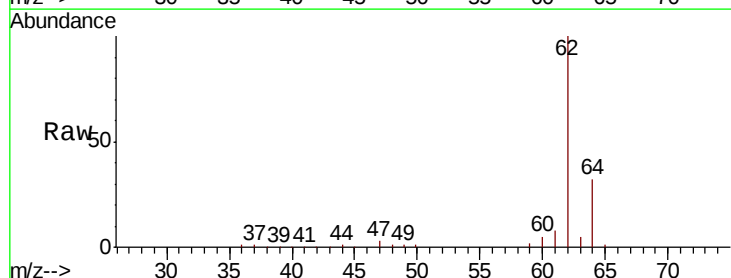
Acq: 7 Jun 2019 3:29

Tgt Ion: 62 Resp: 406148

Ion Ratio Lower Upper

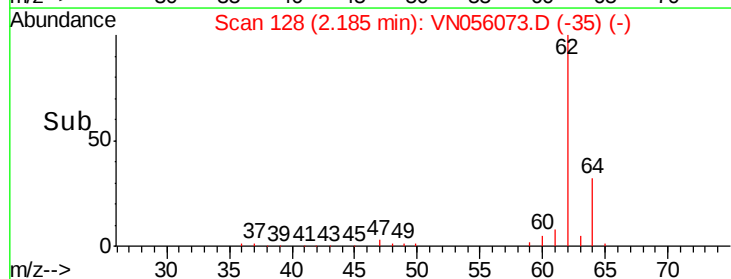
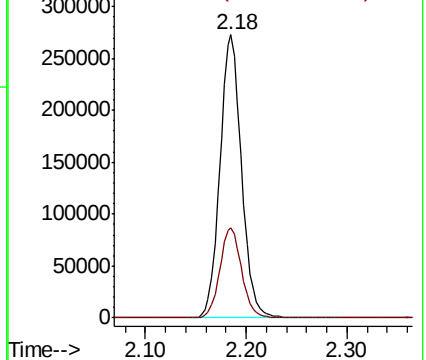
62 100

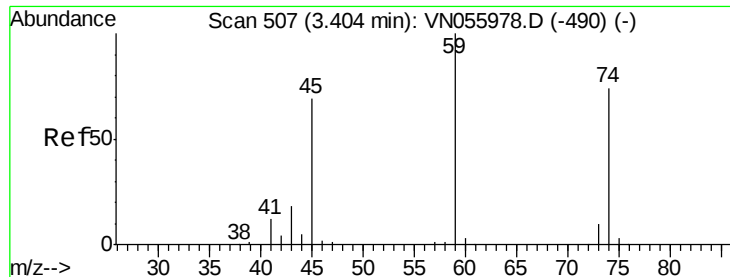
64 32.0 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#8

Diethyl Ether

Concen: 0.362 ug/l

RT: 3.41 min Scan# 508

Delta R.T. 0.00 min

Lab File: VN056073.D

Acq: 7 Jun 2019 3:29

Instrument :

MSVOA_N

ClientSampleId :

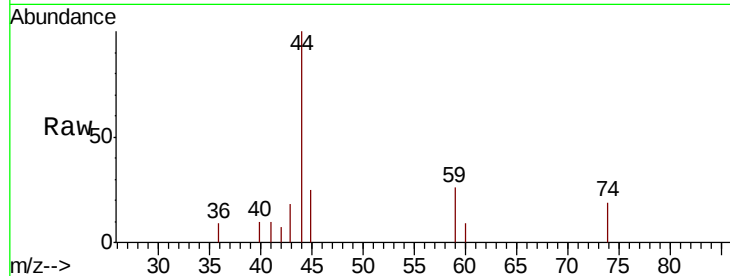
SS043MW100-190604

Tot Ion: 74 Resp: 823

Ion Ratio Lower Upper

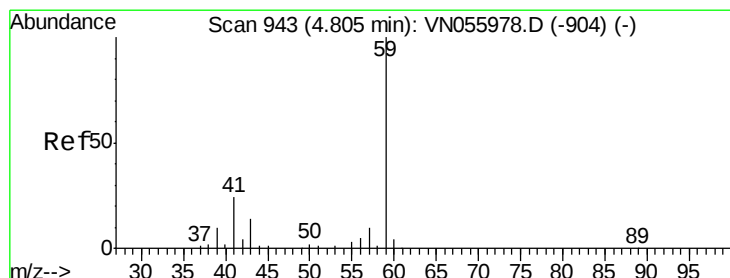
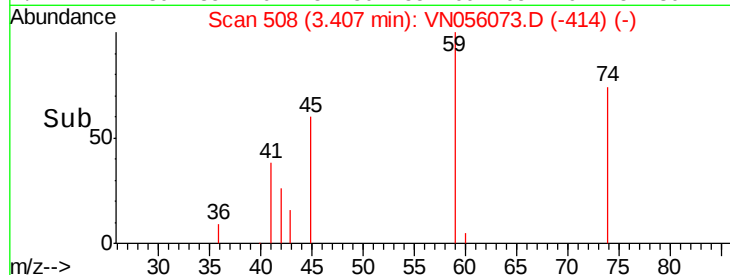
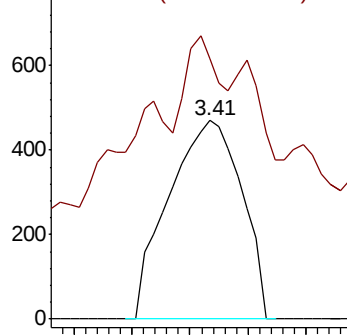
74 100

45 21.3 48.6 145.9#



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#11

Tert butyl alcohol

Concen: 8.040 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056073.D

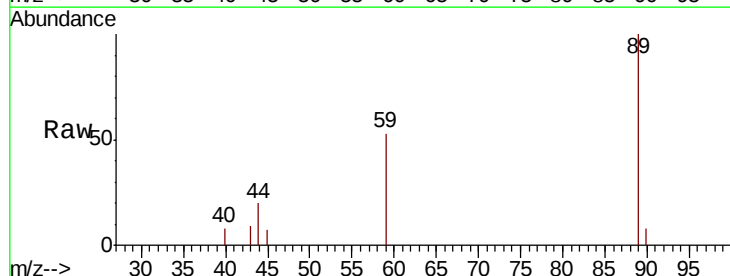
Acq: 7 Jun 2019 3:29

Tgt Ion: 59 Resp: 5526

Ion Ratio Lower Upper

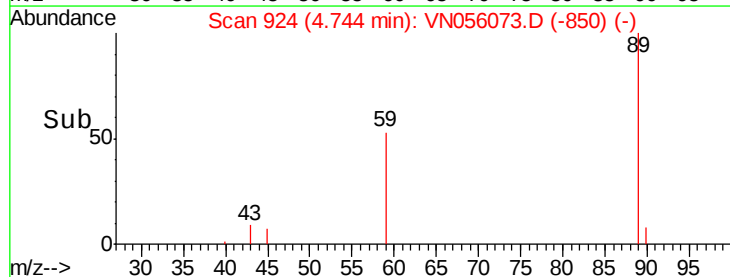
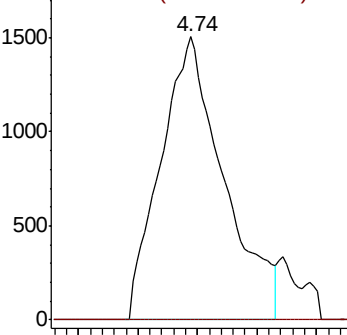
59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 1.354 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056073.D

Acq: 7 Jun 2019 3:29

Instrument :

MSVOA_N

ClientSampleId :

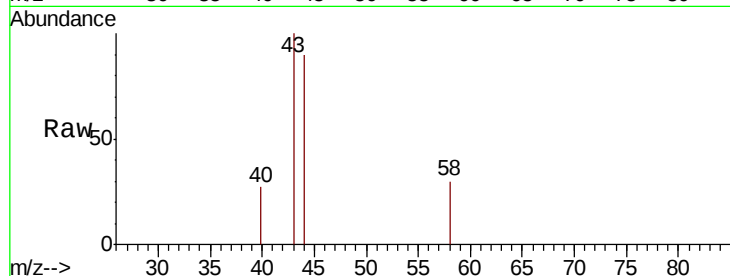
SS043MW100-190604

Tot Ion: 43 Resp: 2558

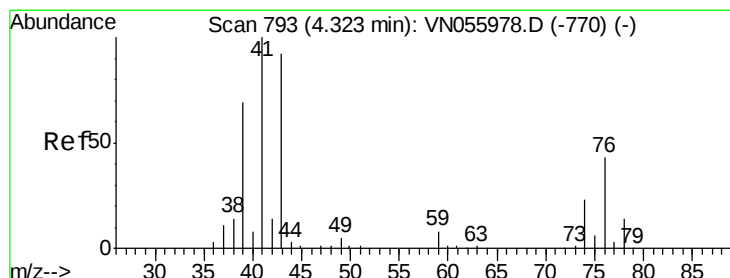
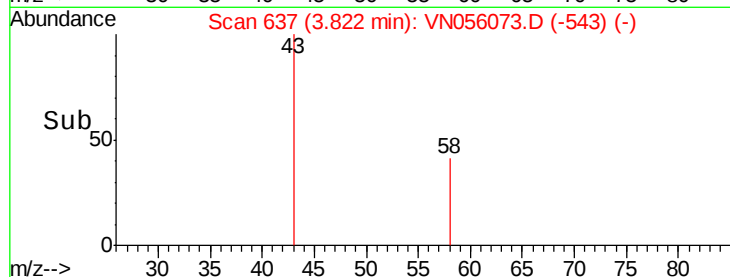
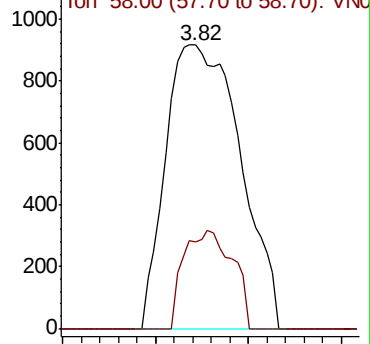
Ion Ratio Lower Upper

43 100

58 30.3 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-616) (-)



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN056073.D

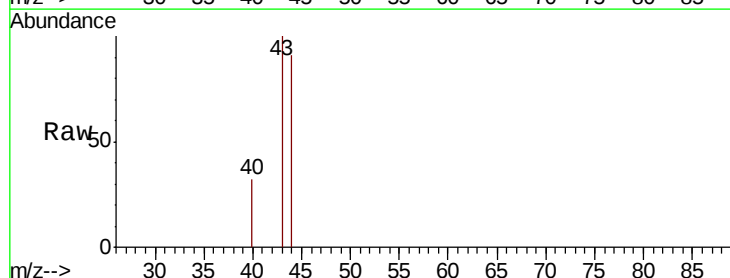
Acq: 7 Jun 2019 3:29

Tgt Ion: 43 Resp: 847

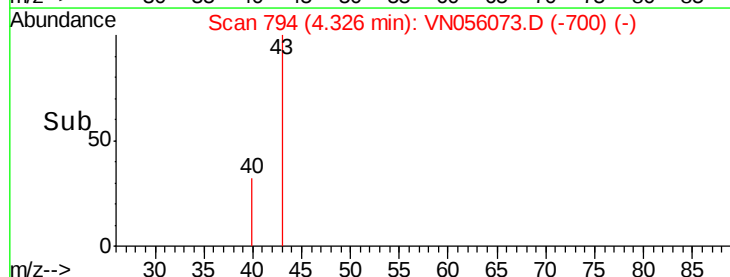
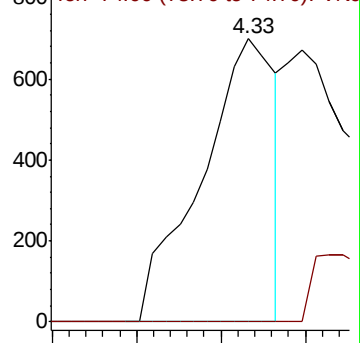
Ion Ratio Lower Upper

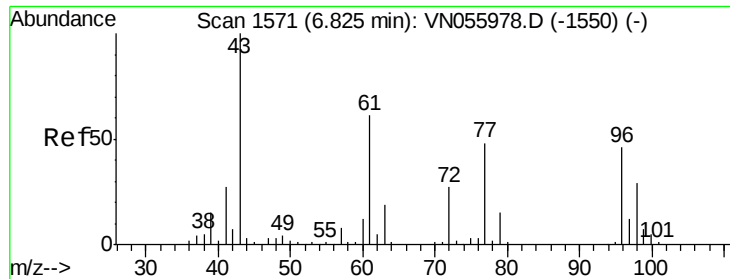
43 100

74 14.8 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-770) (-)

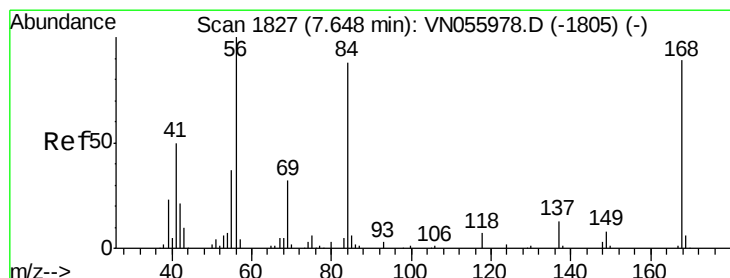
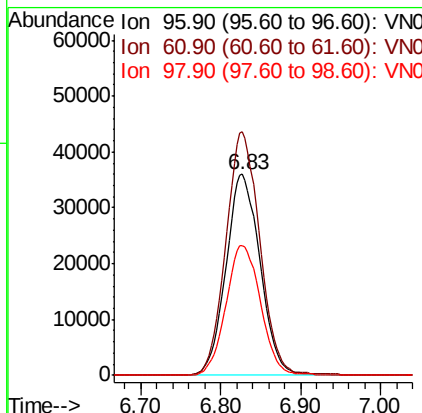
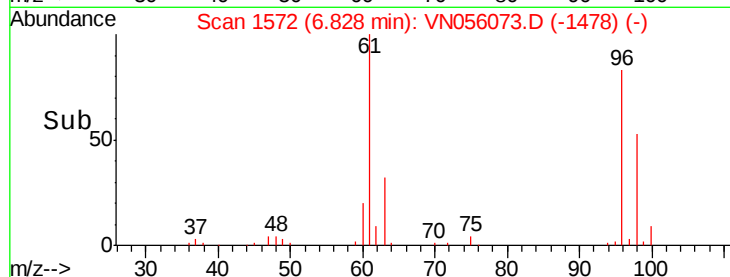
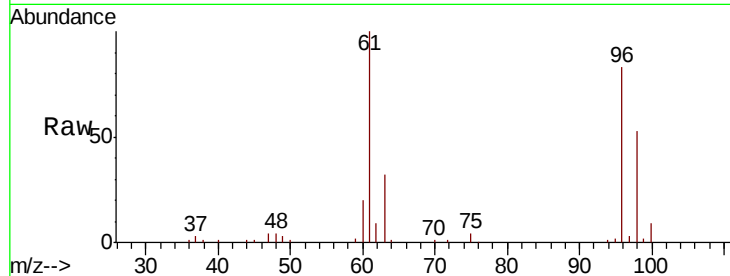




#27
 cis-1,2-Dichloroethene
 Concen: 24.863 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN056073.D
 Acq: 7 Jun 2019 3:29

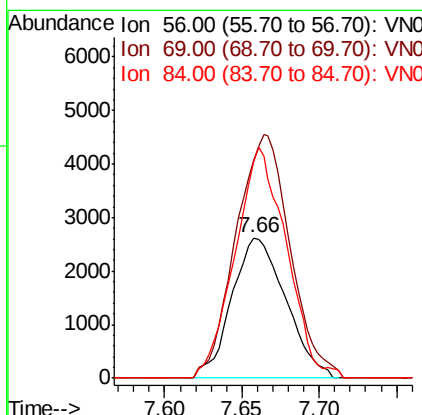
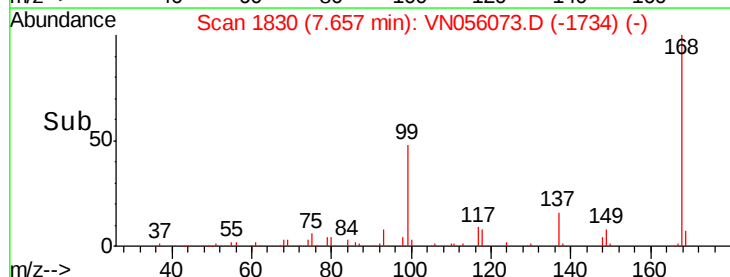
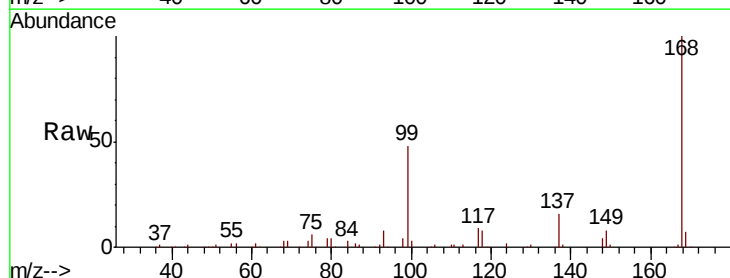
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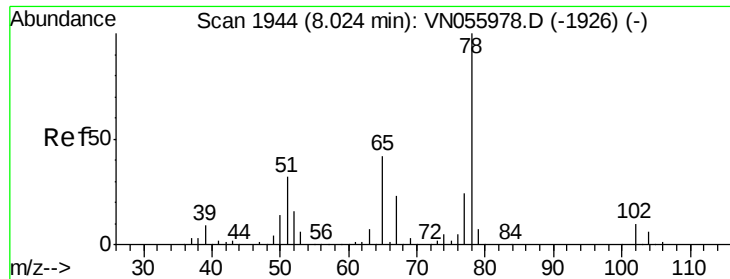
Tot Ion: 96 Resp: 104563
 Ion Ratio Lower Upper
 96 100
 61 120.1 0.0 275.8
 98 65.0 0.0 128.4



#31
 Cyclohexane
 Concen: 1.014 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. 0.01 min
 Lab File: VN056073.D
 Acq: 7 Jun 2019 3:29

Tgt Ion: 56 Resp: 6354
 Ion Ratio Lower Upper
 56 100
 69 155.5 25.6 38.4#
 84 154.7 67.4 101.0#

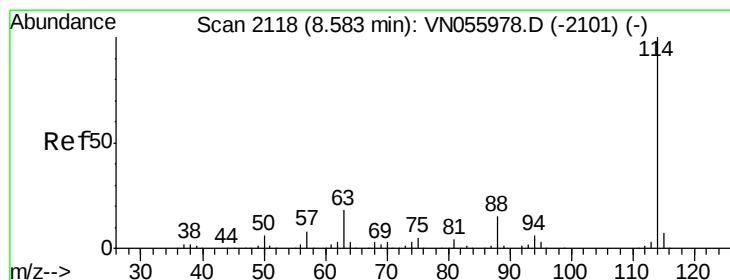
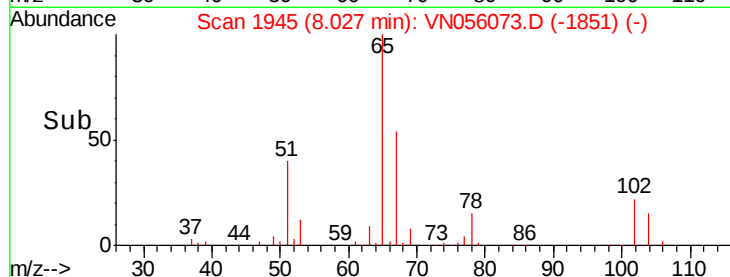
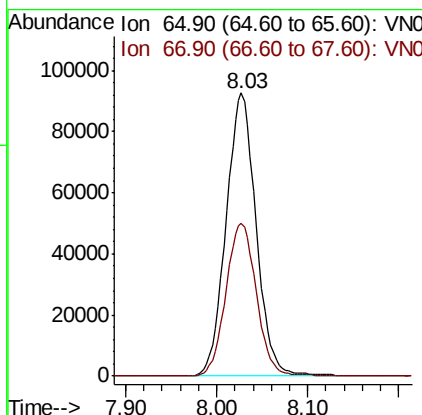
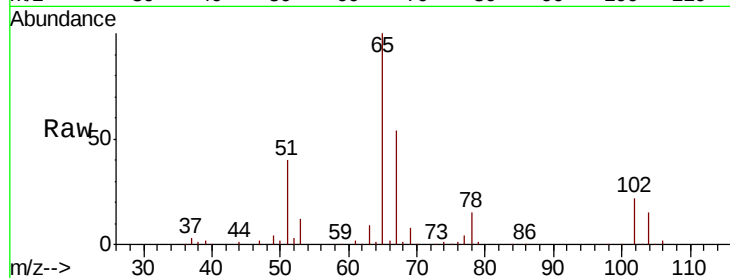




#33
 1,2-Dichloroethane-d4
 Concen: 53.713 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056073.D
 Acq: 7 Jun 2019 3:29

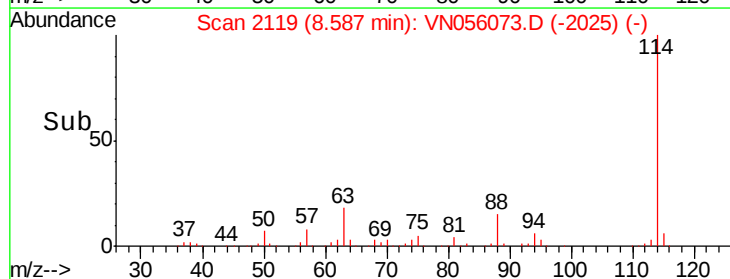
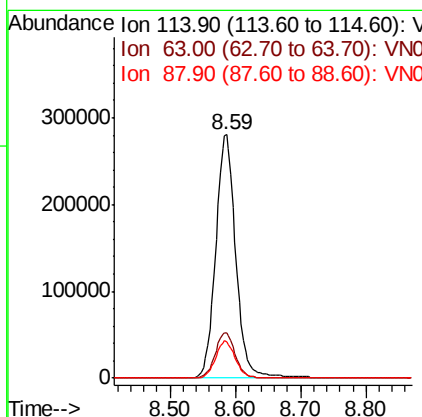
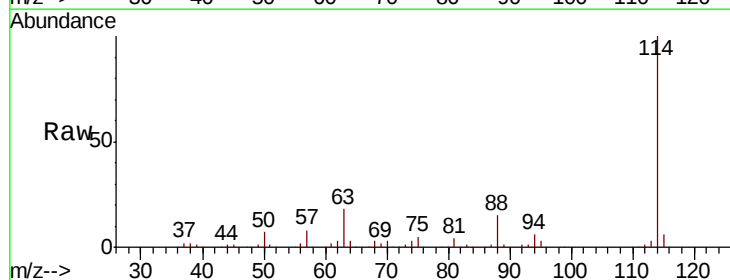
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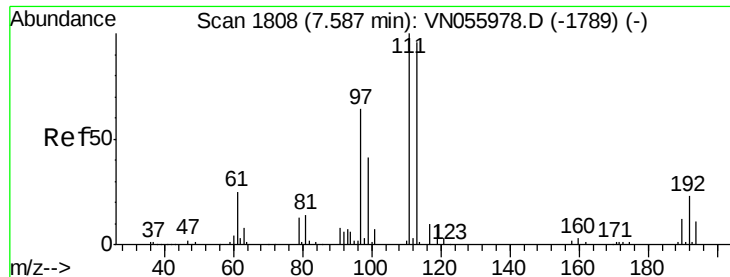
Tot Ion: 65 Resp: 212135
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056073.D
 Acq: 7 Jun 2019 3:29

Tgt Ion: 114 Resp: 600036
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 39.2
 88 15.1 0.0 31.0

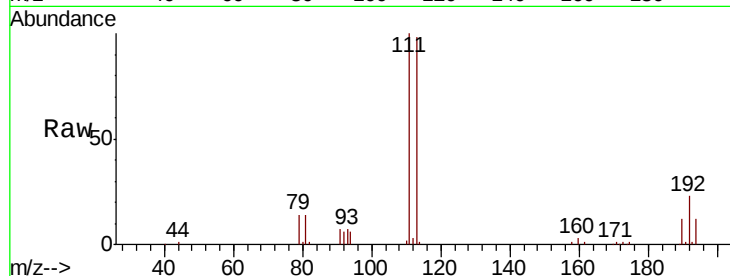




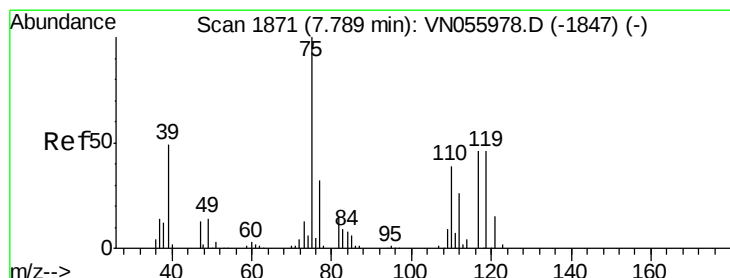
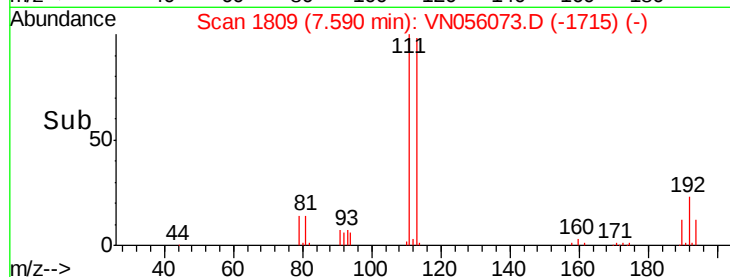
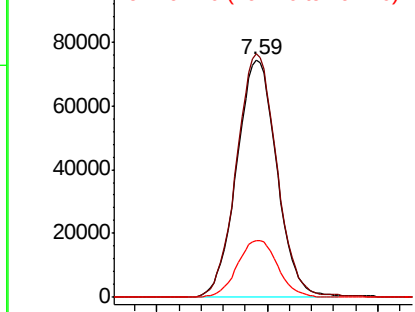
#35
 Dibromofluoromethane
 Concen: 50.845 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056073.D
 Acq: 7 Jun 2019 3:29

Instrument :
 MSVOA_N
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 SS043MW100-190604

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.9	122.9
192	24.3	19.5	29.3

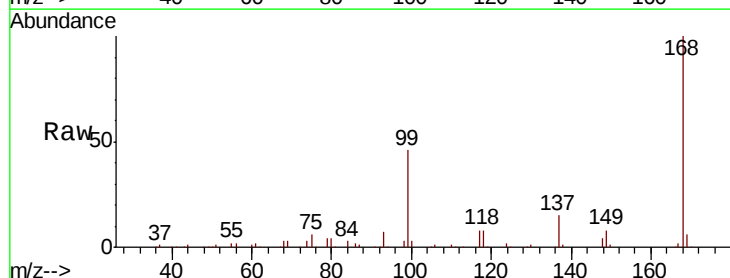


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

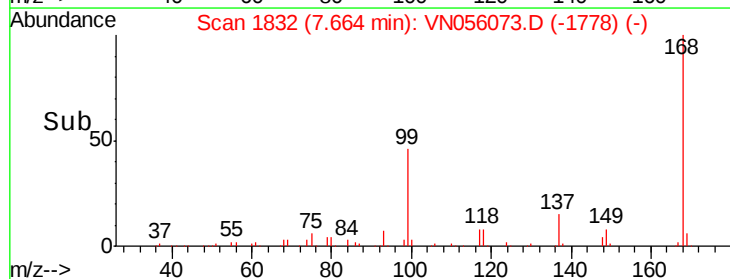
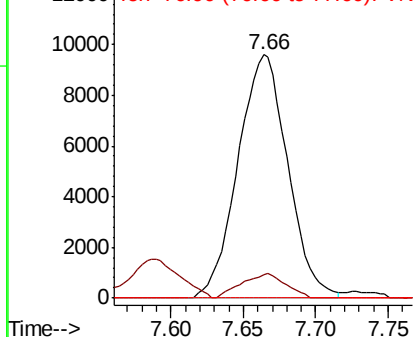


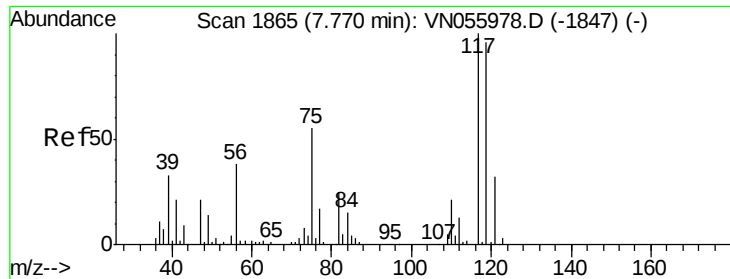
#36
 1,1-Dichloropropene
 Concen: 4.449 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056073.D
 Acq: 7 Jun 2019 3:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	19.0	57.0#
77	0.0	25.1	37.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO

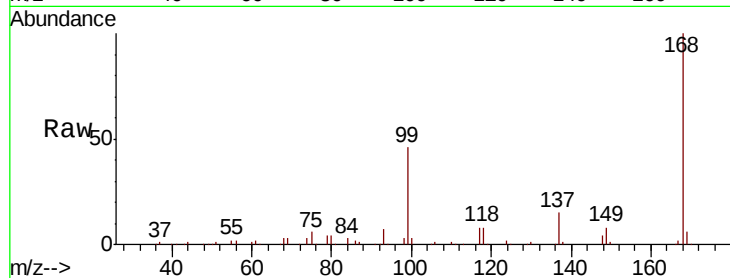




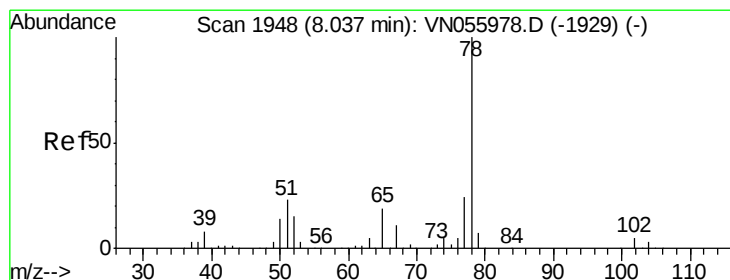
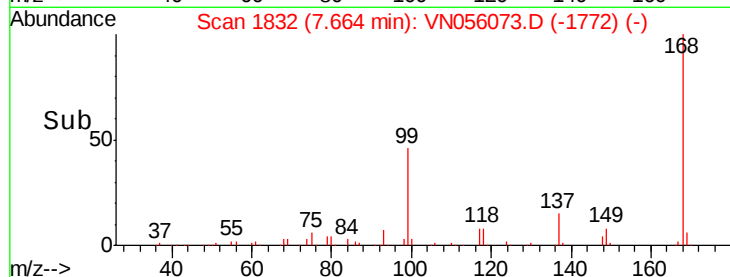
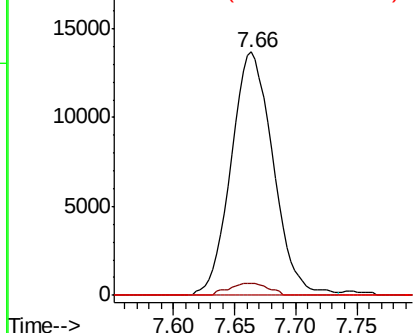
#38
Carbon Tetrachloride
Concen: 6.872 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056073.D
Acq: 7 Jun 2019 3:29

Instrument :
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ClientSampleId :
SS043MW100-190604

Tot Ion:117 Resp: 32689
Ion Ratio Lower Upper
117 100
119 4.9 79.0 118.6#
121 0.0 24.7 37.1#

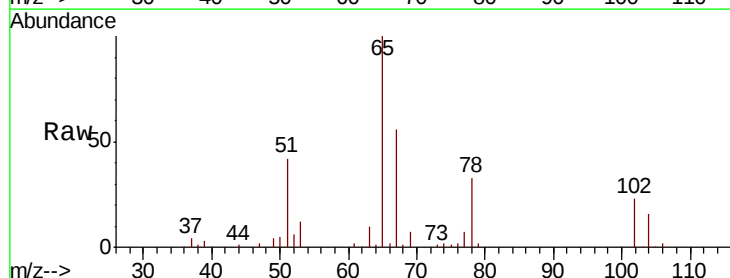


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

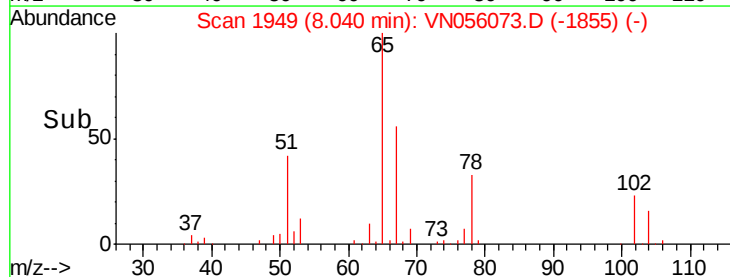
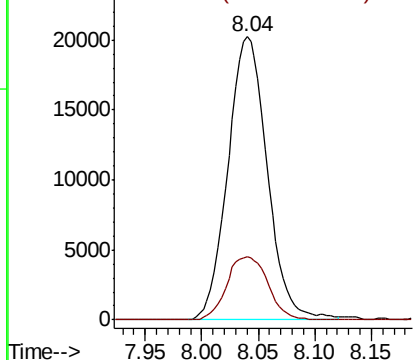


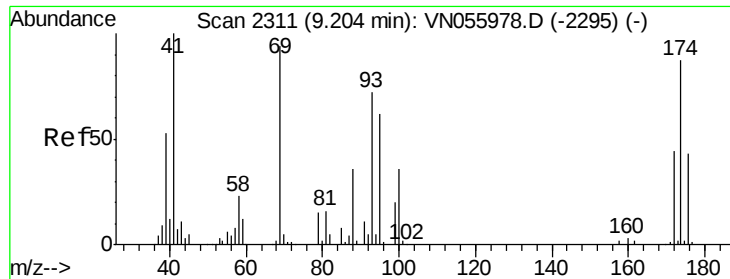
#40
Benzene
Concen: 3.127 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN056073.D
Acq: 7 Jun 2019 3:29

Tgt Ion: 78 Resp: 48997
Ion Ratio Lower Upper
78 100
77 22.4 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





#49

1,4-Dioxane

Concen: 5.295 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN056073.D

Acq: 7 Jun 2019 3:29

Instrument :

MSVOA_N

ClientSampleId :

SS043MW100-190604

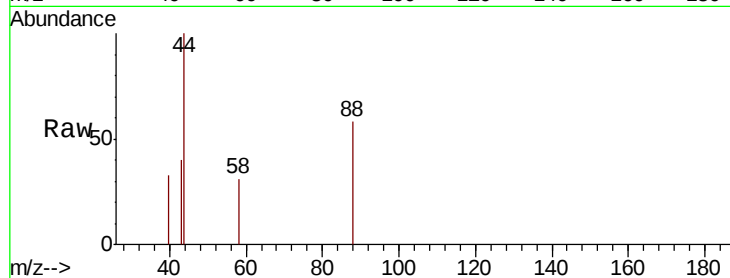
Tot Ion: 88 Resp: 416

Ion Ratio Lower Upper

88 100

43 120.7 20.5 30.7#

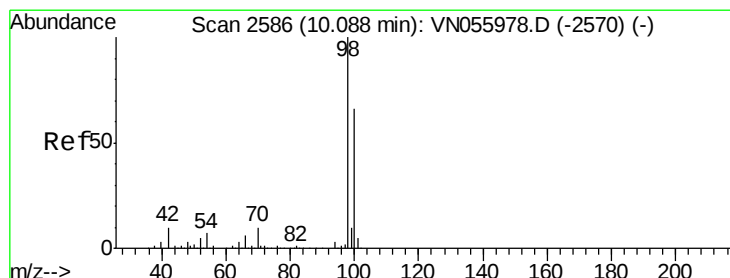
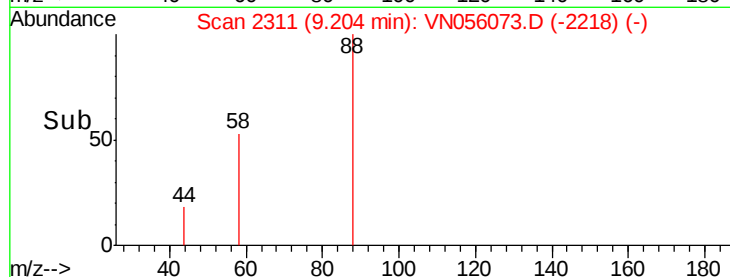
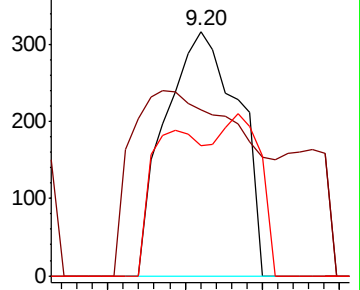
58 40.9 55.8 83.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 50.887 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056073.D

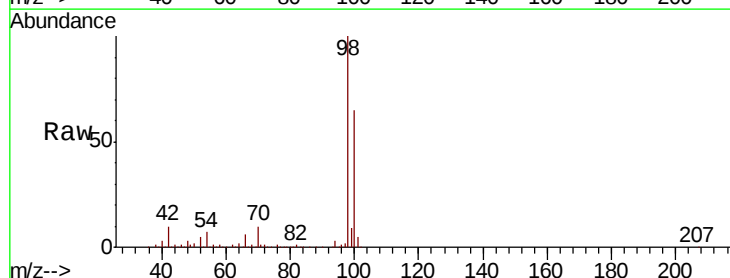
Acq: 7 Jun 2019 3:29

Tgt Ion: 98 Resp: 720874

Ion Ratio Lower Upper

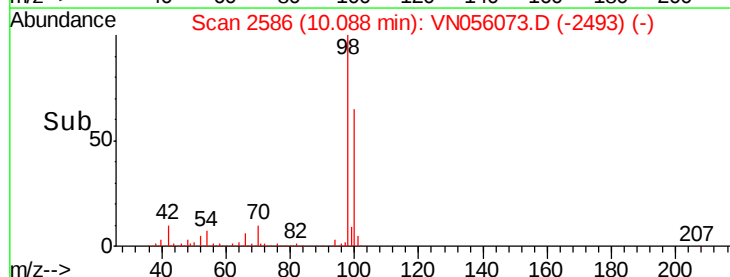
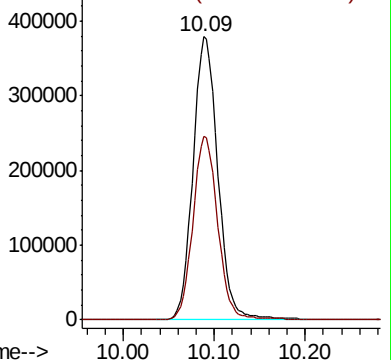
98 100

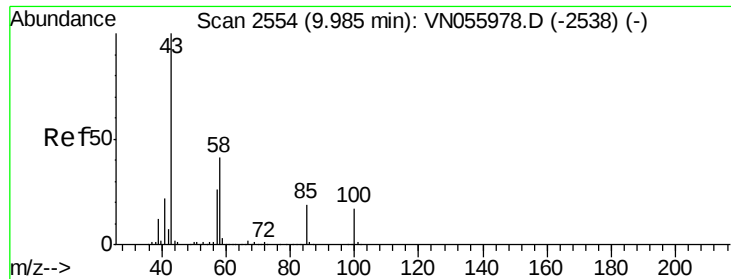
100 64.9 51.9 77.9



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: 0.675 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.10 min

Lab File: VN056073.D

Acq: 7 Jun 2019 3:29

Instrument :

MSVOA_N

ClientSampleId :

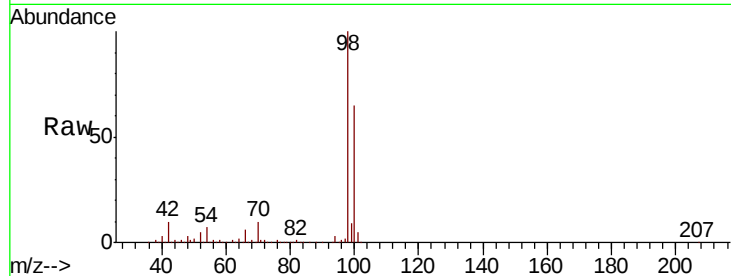
SS043MW100-190604

Tot Ion: 43 Resp: 3139

Ion Ratio Lower Upper

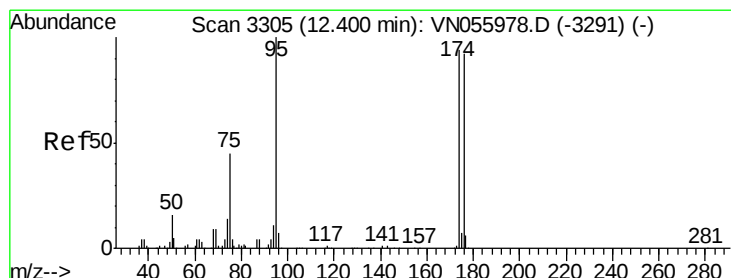
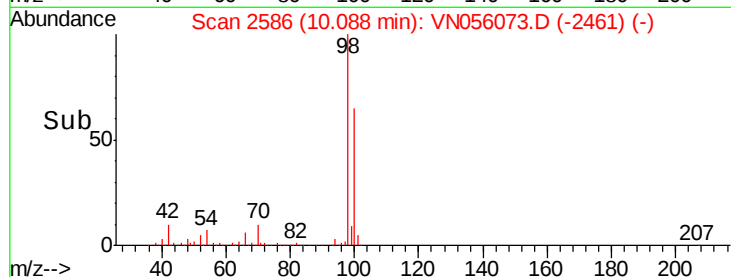
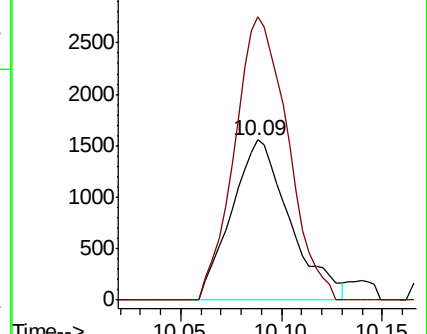
43 100

58 161.5 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 47.577 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056073.D

Acq: 7 Jun 2019 3:29

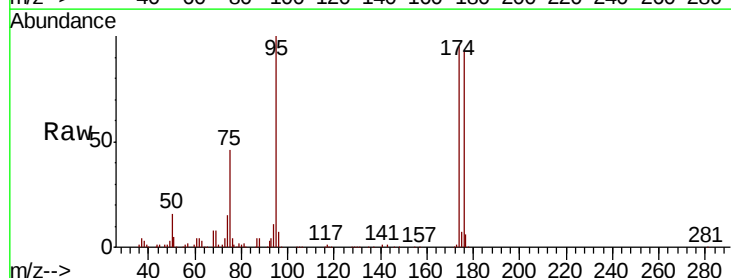
Tgt Ion: 95 Resp: 229203

Ion Ratio Lower Upper

95 100

174 96.5 0.0 191.0

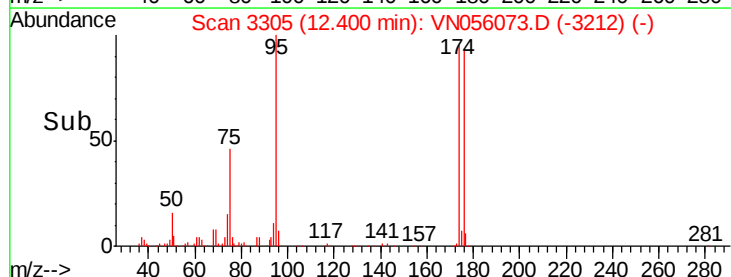
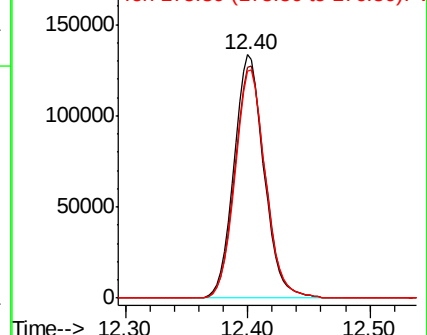
176 94.5 0.0 185.2

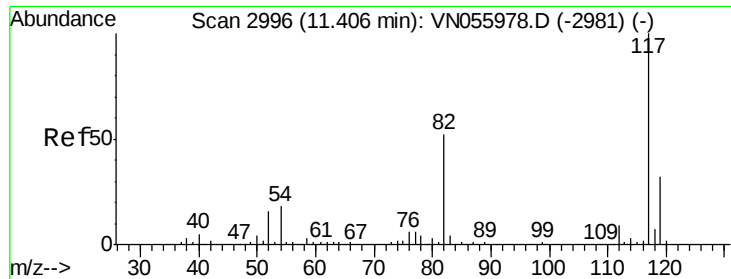


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

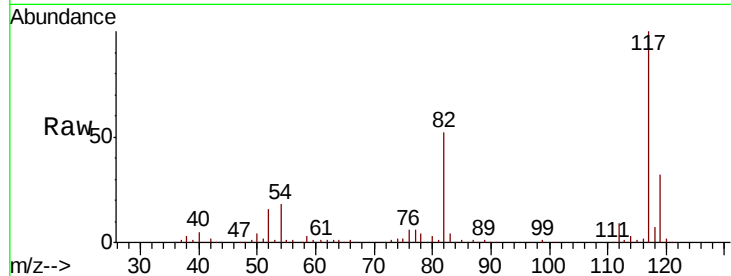




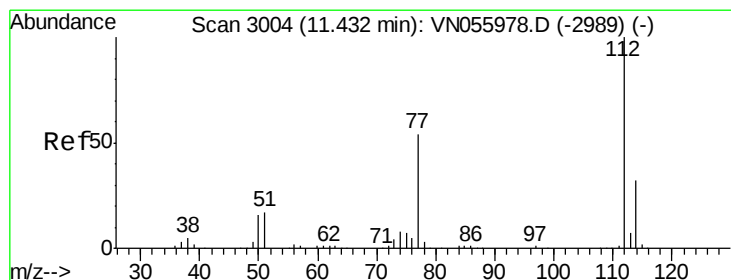
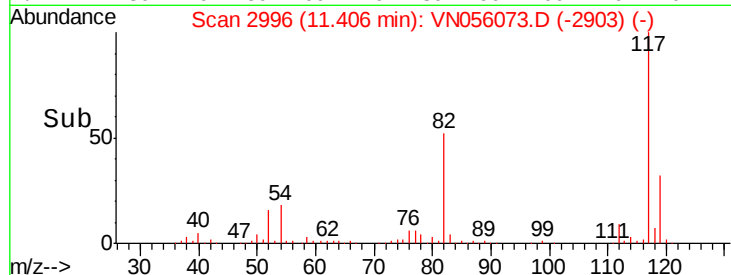
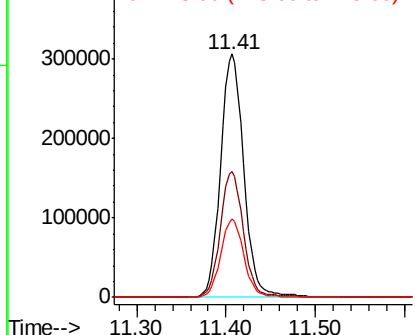
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056073.D
Acq: 7 Jun 2019 3:29

Instrument :
MSVOA_N
ClientSampleId :
SS043MW100-190604

Tot Ion:117 Resp: 551985
Ion Ratio Lower Upper
117 100
82 51.8 41.8 62.8
119 32.0 25.4 38.0

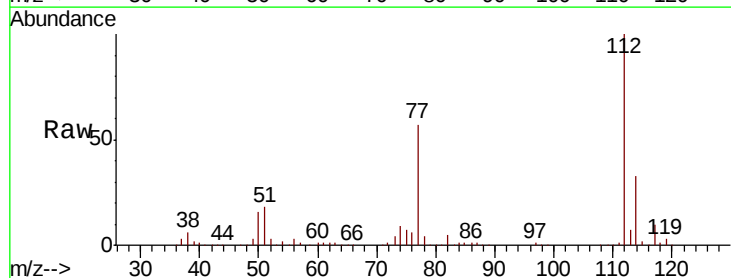


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

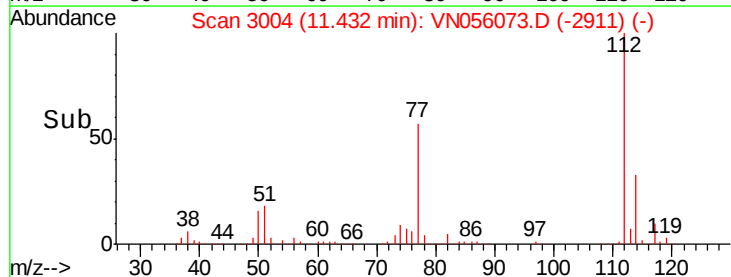
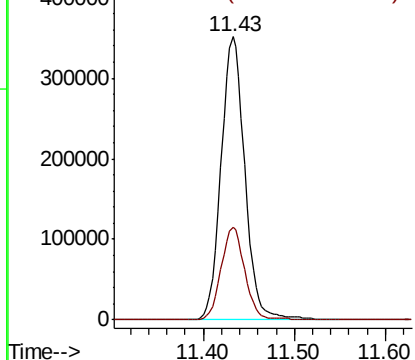


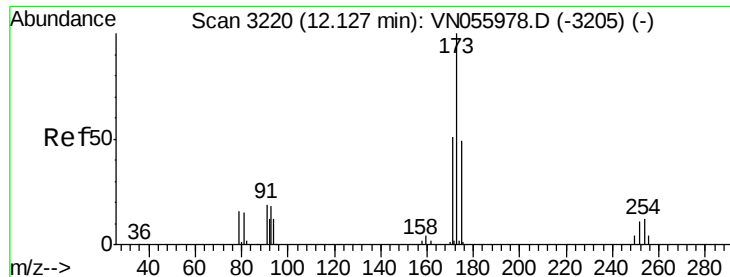
#65
Chlorobenzene
Concen: 58.097 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN056073.D
Acq: 7 Jun 2019 3:29

Tgt Ion:112 Resp: 638231
Ion Ratio Lower Upper
112 100
114 32.9 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

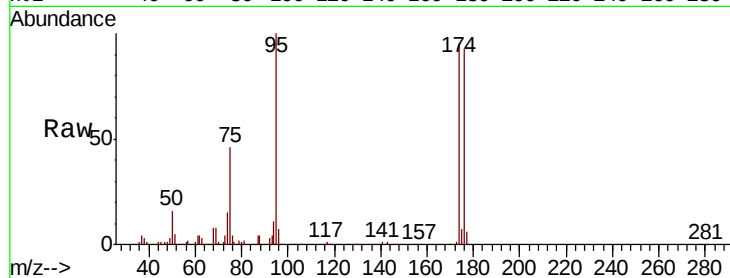




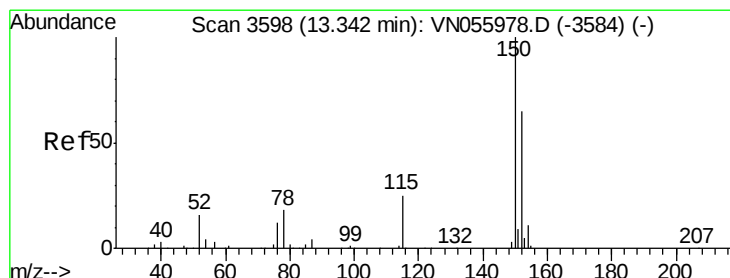
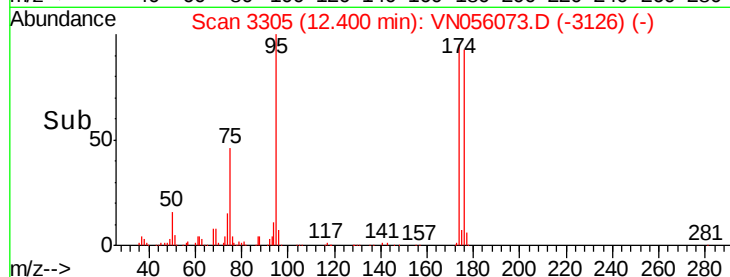
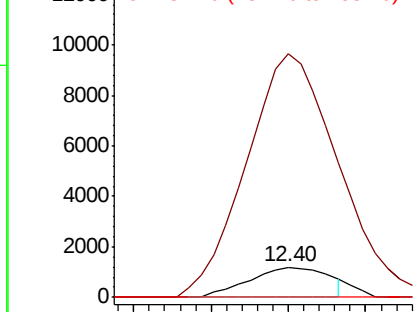
#71
Bromoform
Concen: 3.251 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056073.D
Acq: 7 Jun 2019 3:29

Instrument :
MSVOA_N
ClientSampleId :
SS043MW100-190604

Tot Ion:173 Resp: 1713
Ion Ratio Lower Upper
173 100
175 810.7 24.3 72.8#
254 0.0 0.0 0.0

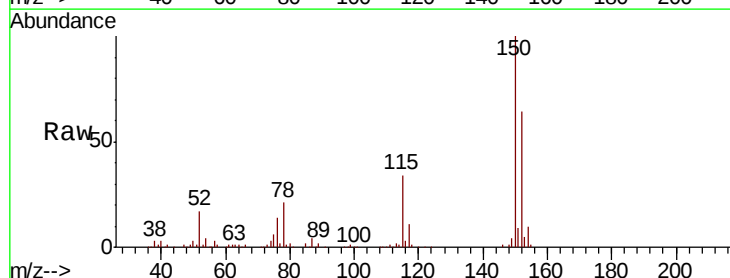


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

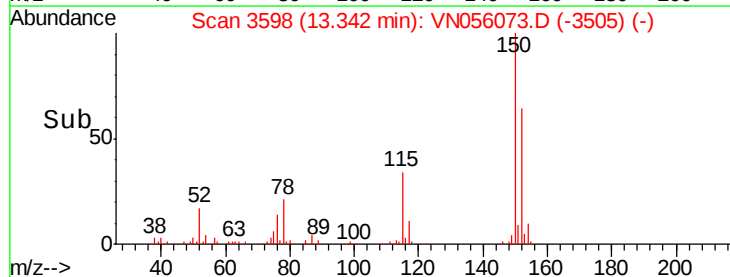
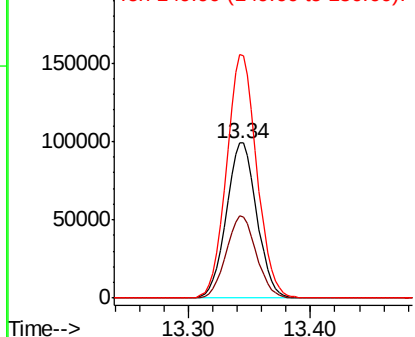


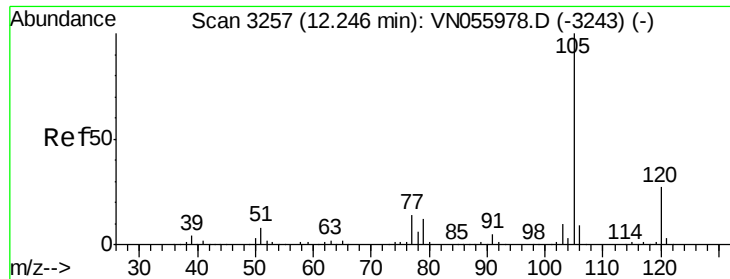
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056073.D
Acq: 7 Jun 2019 3:29

Tgt Ion:152 Resp: 172595
Ion Ratio Lower Upper
152 100
115 52.6 27.0 81.0
150 155.5 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: VN056073.D

Acq: 7 Jun 2019 3:29

Instrument :

MSVOA_N

ClientSampleId :

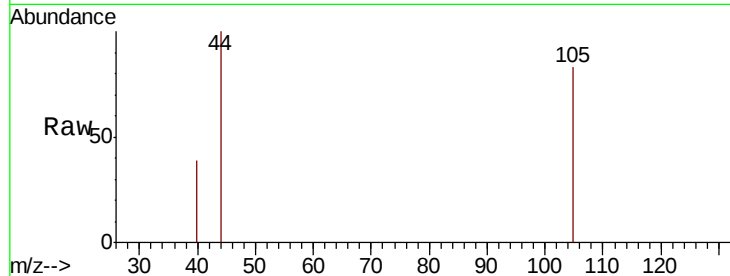
SS043MW100-190604

Tot Ion:105 Resp: 484

Ion Ratio Lower Upper

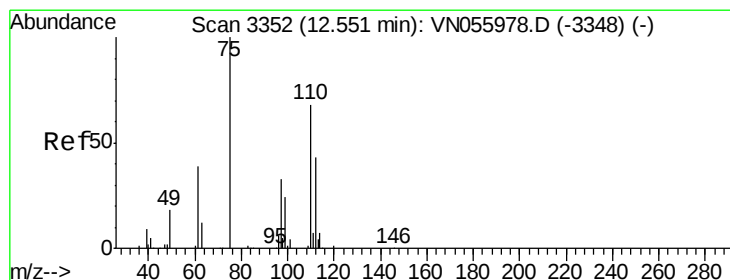
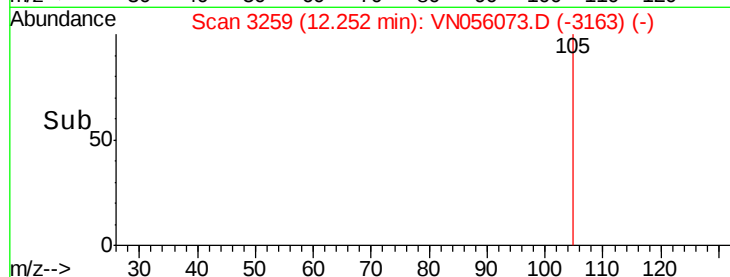
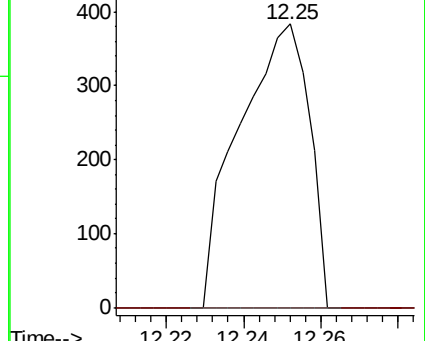
105 100

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



#76

1,2,3-Trichloropropane

Concen: 33.194 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056073.D

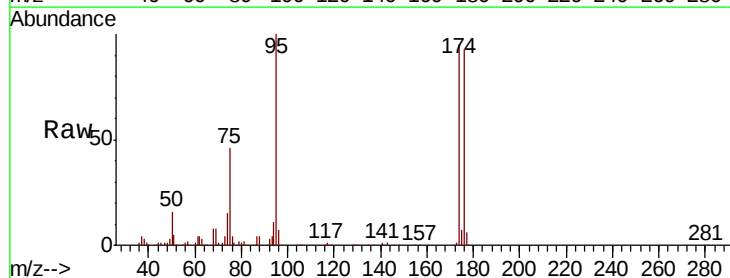
Acq: 7 Jun 2019 3:29

Tgt Ion: 75 Resp: 105419

Ion Ratio Lower Upper

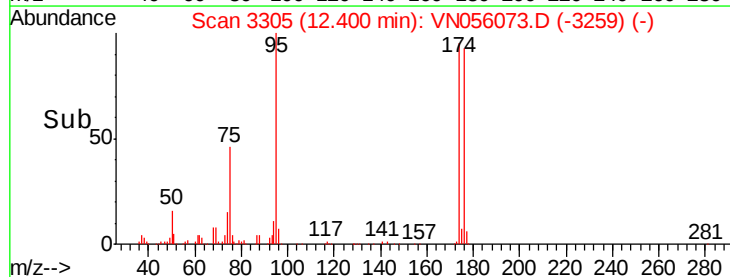
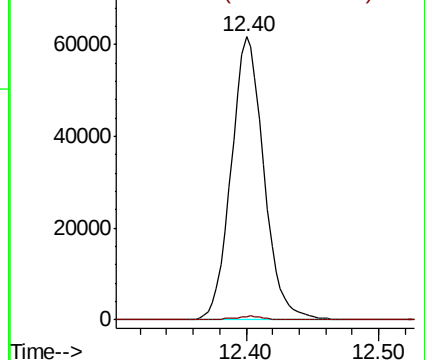
75 100

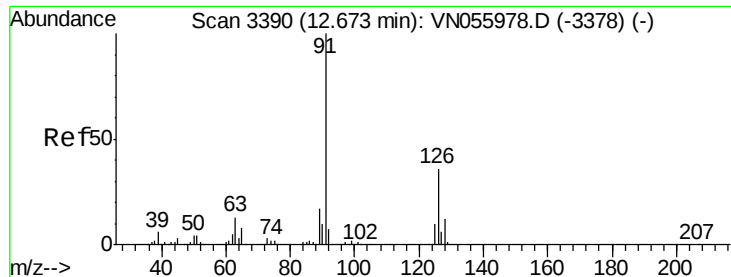
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056073.D

Acq: 7 Jun 2019 3:29

Instrument :

MSVOA_N

ClientSampleId :

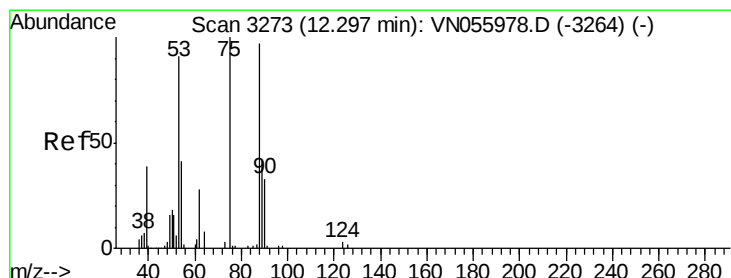
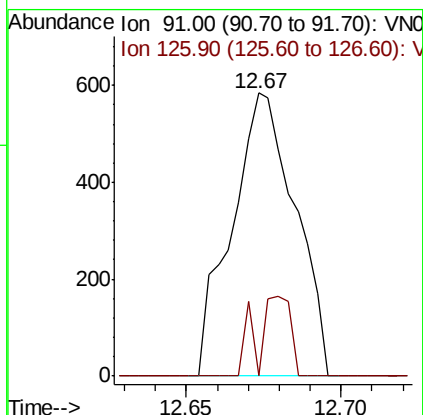
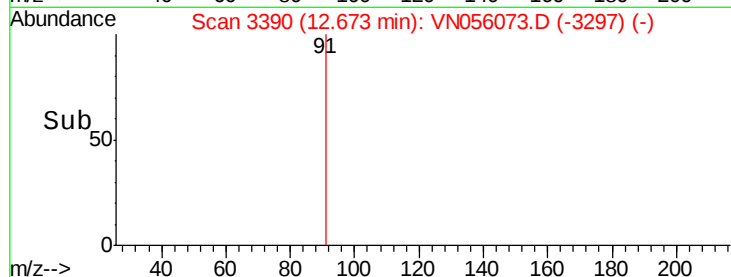
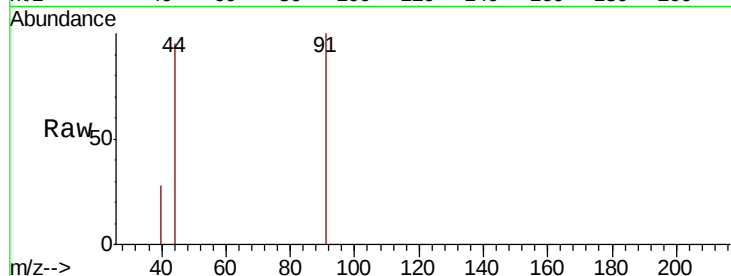
SS043MW100-190604

Tot Ion: 91 Resp: 836

Ion Ratio Lower Upper

91 100

126 14.6 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 110.543 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056073.D

Acq: 7 Jun 2019 3:29

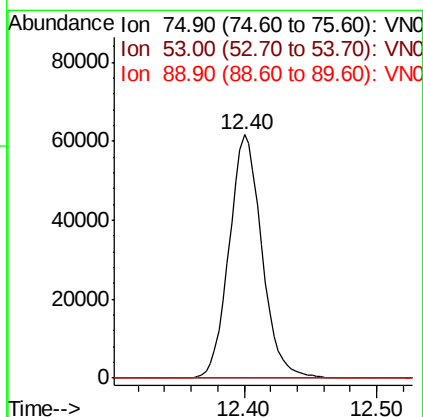
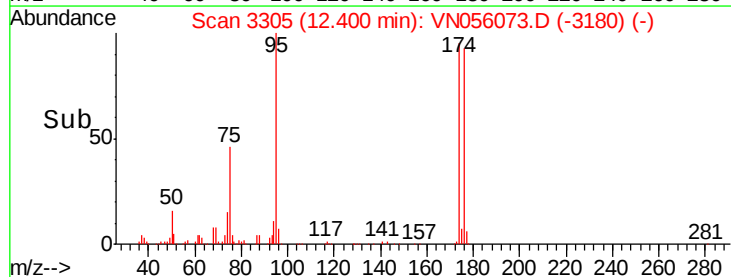
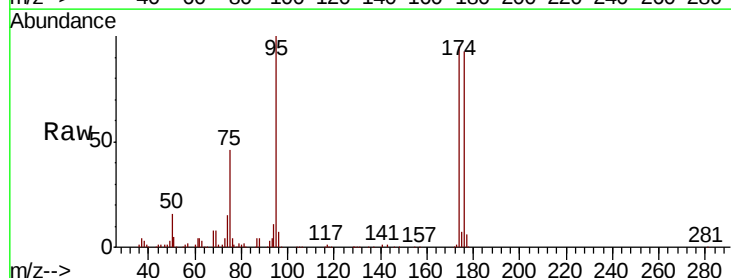
Tgt Ion: 75 Resp: 105419

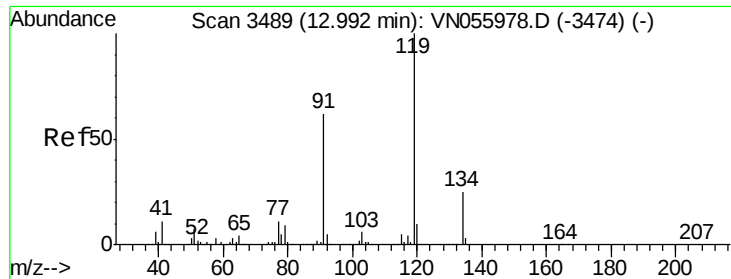
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#

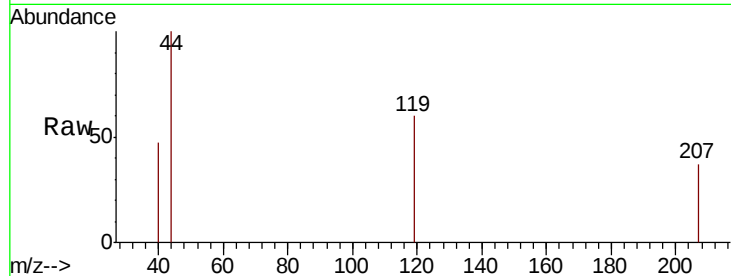




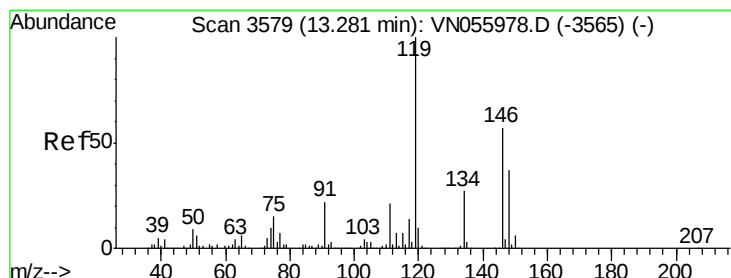
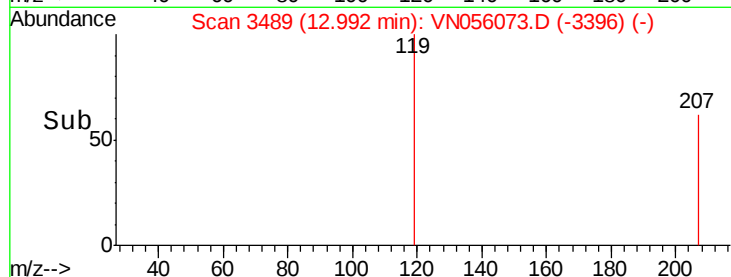
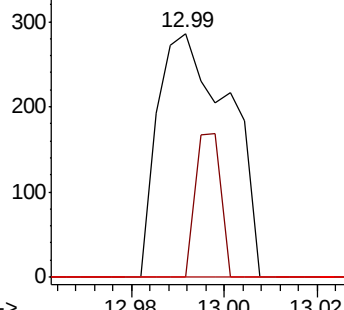
#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN056073.D
Acq: 7 Jun 2019 3:29

Instrument :
MSVOA_N
ClientSampleId :
SS043MW100-190604

Tot Ion:119 Resp: 306
Ion Ratio Lower Upper
119 100
91 21.2 30.9 92.8#
134 0.0 13.3 39.8#

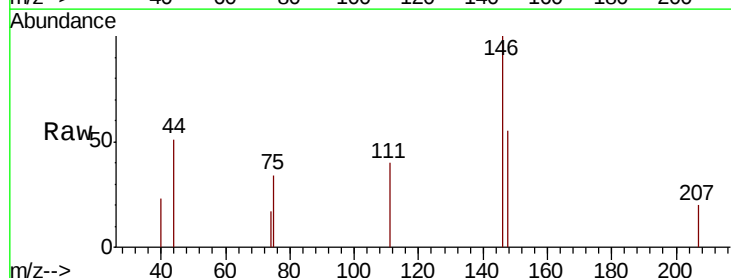


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

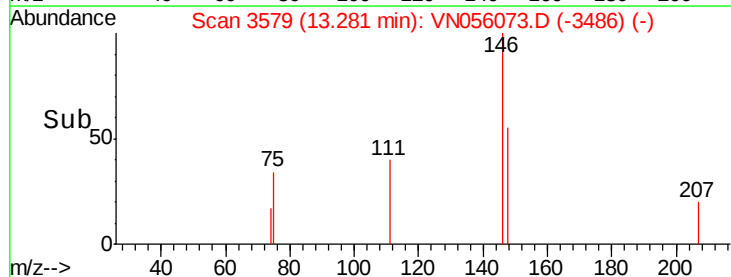
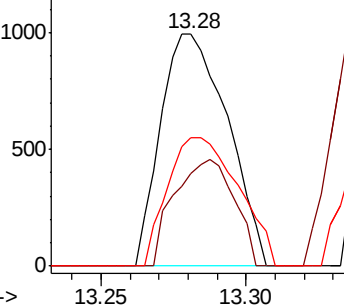


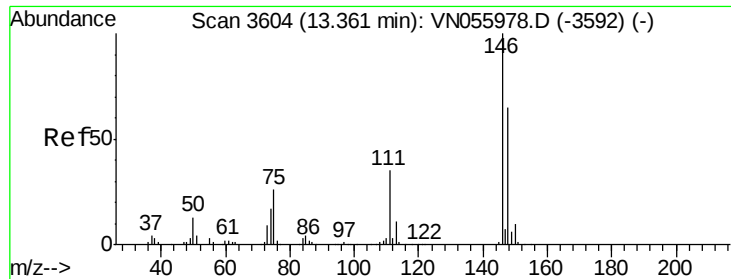
#87
1,3-Dichlorobenzene
Concen: 0.278 ug/l
RT: 13.28 min Scan# 3579
Delta R.T. 0.00 min
Lab File: VN056073.D
Acq: 7 Jun 2019 3:29

Tgt Ion:146 Resp: 1590
Ion Ratio Lower Upper
146 100
111 41.1 18.5 55.5
148 58.8 32.0 96.2



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 2.056 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. 0.00 min

Lab File: VN056073.D

Acq: 7 Jun 2019 3:29

Instrument :

MSVOA_N

ClientSampleId :

SS043MW100-190604

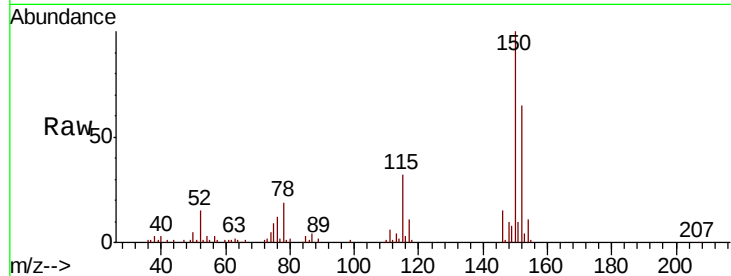
Tot Ion:146 Resp: 11311

Ion Ratio Lower Upper

146 100

111 51.5 18.1 54.4

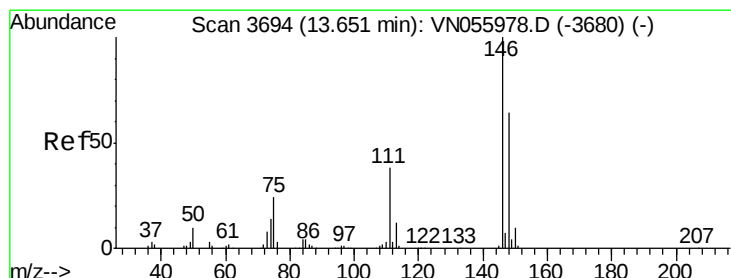
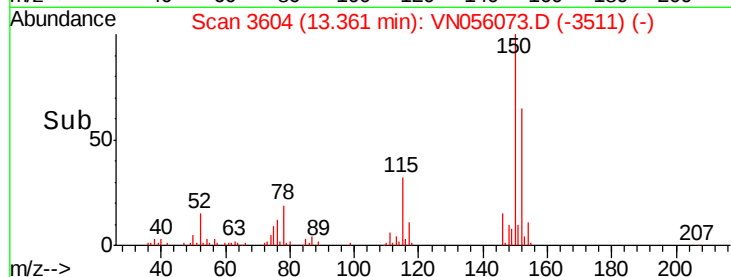
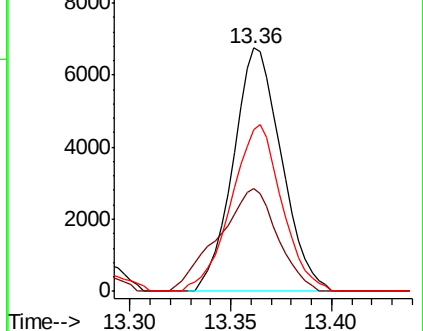
148 71.6 32.1 96.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 3.964 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN056073.D

Acq: 7 Jun 2019 3:29

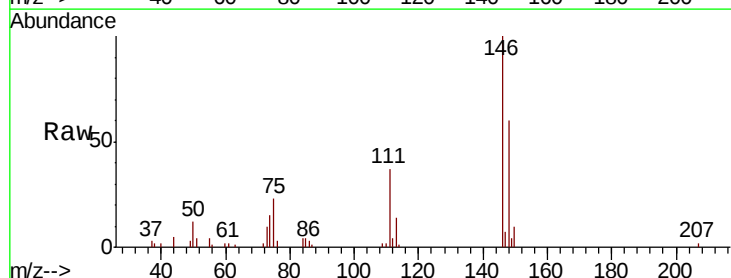
Tgt Ion:146 Resp: 22890

Ion Ratio Lower Upper

146 100

111 38.6 19.1 57.5

148 63.1 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

