

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060719\
 Data File : VN056047.D
 Acq On : 6 Jun 2019 15:46
 Operator : JC/SP
 Sample : K3203-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF001MW003-190604

Quant Time: Jun 06 17:55:24 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

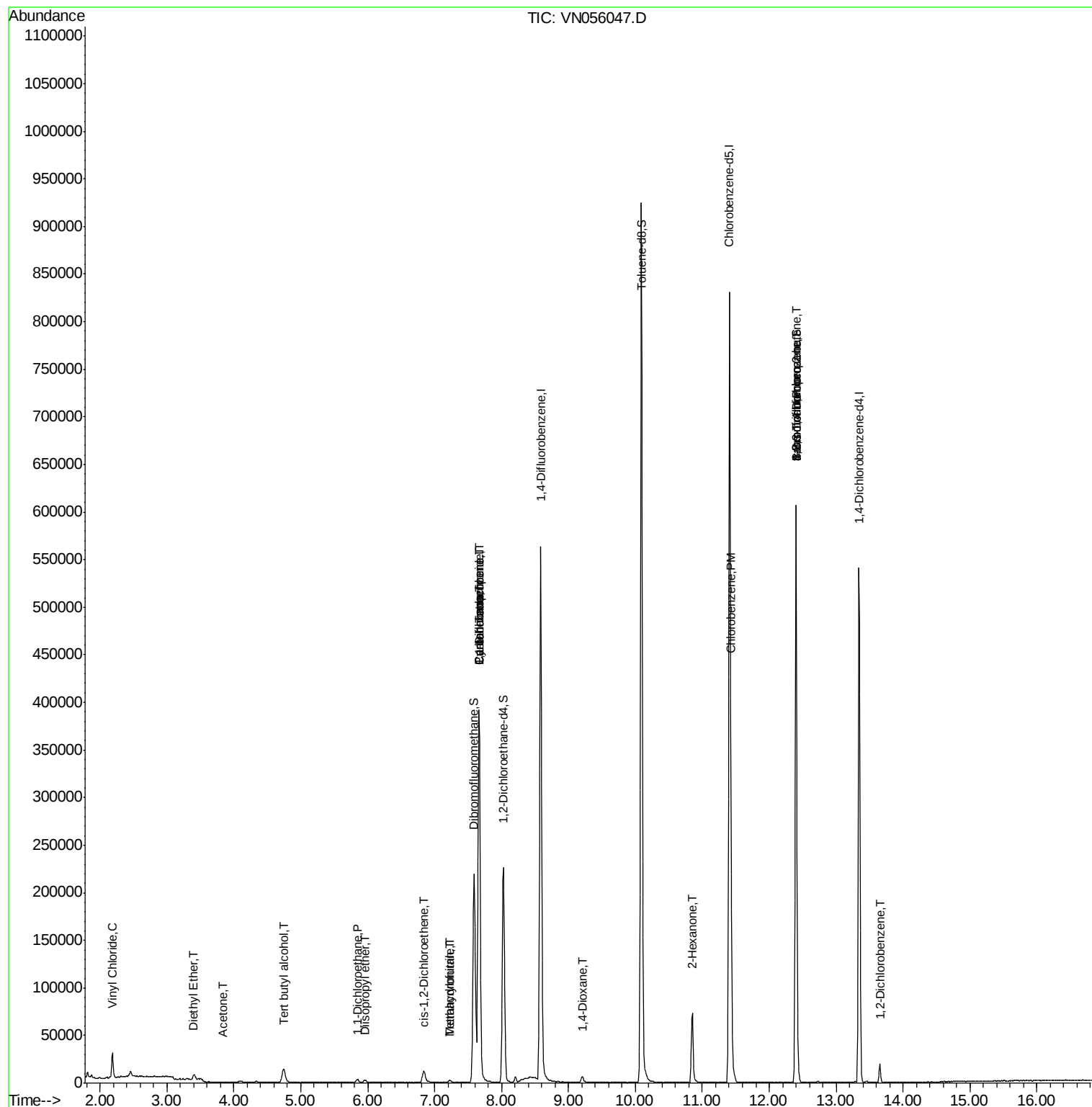
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	372424	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	555261	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	521328	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	164841	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	191118	51.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.36%	
35) Dibromofluoromethane	7.59	113	166451	48.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.72%	
50) Toluene-d8	10.09	98	692900	52.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.72%	
62) 4-Bromofluorobenzene	12.40	95	216250	48.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.02%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.18	62	23973	5.920	ug/l	98
8) Diethyl Ether	3.41	74	2714	1.277	ug/l	90
11) Tert butyl alcohol	4.74	59	14713	22.864	ug/l #	74
16) Acetone	3.83	43	925	0.523	ug/l #	41
18) Methyl Acetate	4.33	43	1169	Below Cal	#	63
22) Diisopropyl ether	5.96	45	4071	0.399	ug/l #	81
24) 1,1-Dichloroethane	5.85	63	5935	1.008	ug/l #	83
27) cis-1,2-Dichloroethene	6.83	96	3913	0.994	ug/l	100
29) Tetrahydrofuran	7.22	42	2146	1.554	ug/l #	87
31) Cyclohexane	7.66	56	5351	0.912	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	22065	4.621	ug/l #	48
38) Carbon Tetrachloride	7.66	117	30027	6.822	ug/l #	15
41) Methacrylonitrile	7.22	41	1234	0.631	ug/l #	32
49) 1,4-Dioxane	9.20	88	6051	83.224	ug/l #	89
59) 2-Hexanone	10.85	43	1166	0.374	ug/l #	1
65) Chlorobenzene	11.43	112	81396	7.845	ug/l	100
71) Bromoform	12.40	173	1579	3.238	ug/l #	1
73) Isopropylbenzene	12.25	105	192	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	98395	32.440	ug/l #	100
79) 2-Chlorotoluene	12.40	91	621	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	98395	108.031	ug/l #	15
91) 1,2-Dichlorobenzene	13.65	146	9405	1.705	ug/l	99

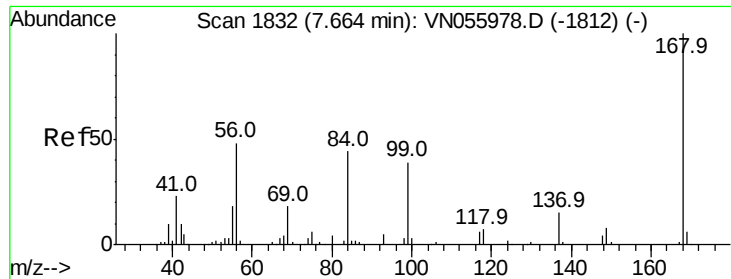
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056047.D

Acq: 6 Jun 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

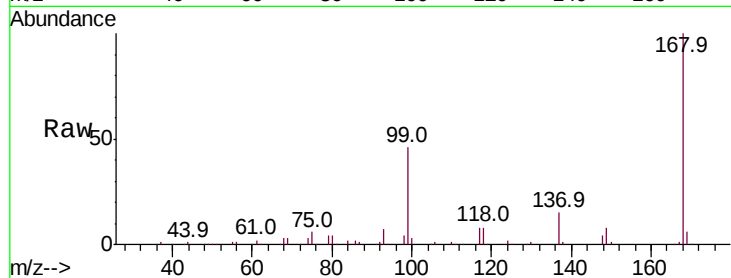
LF001MW003-190604

Tot Ion:168 Resp: 372424

Ion Ratio Lower Upper

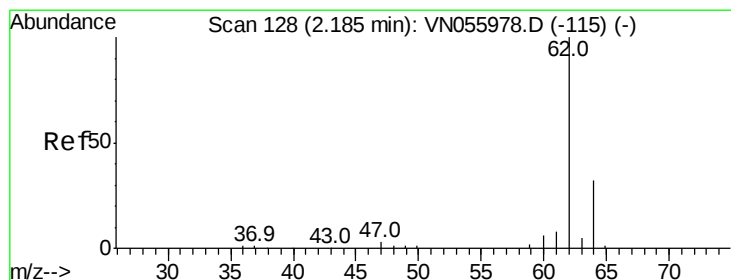
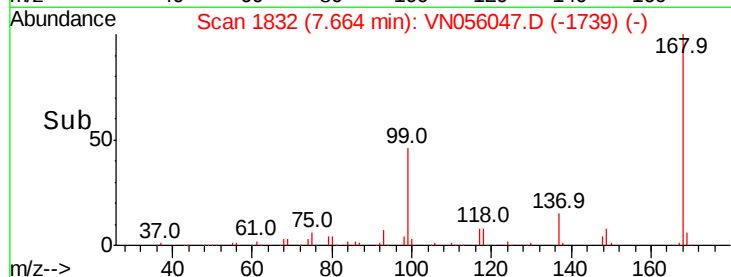
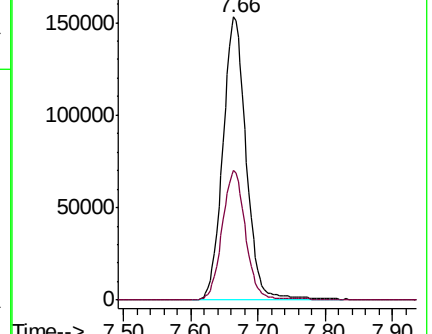
168 100

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): VN



#4

Vinyl Chloride

Concen: 5.920 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN056047.D

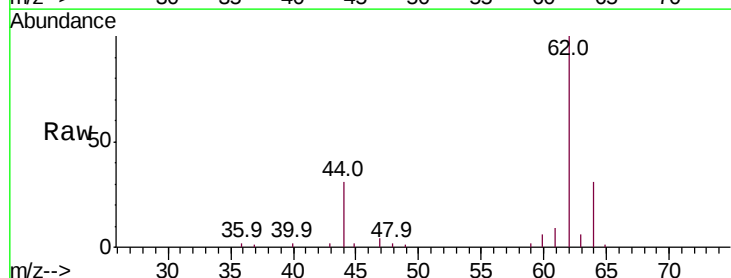
Acq: 6 Jun 2019 15:46

Tgt Ion: 62 Resp: 23973

Ion Ratio Lower Upper

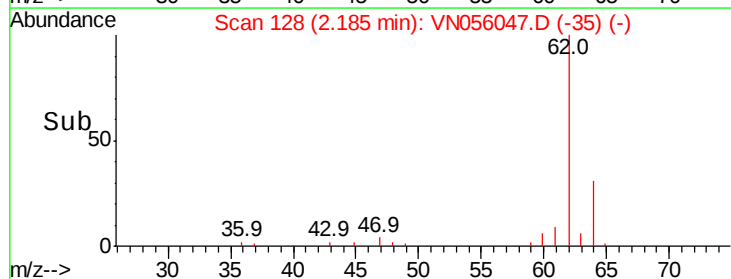
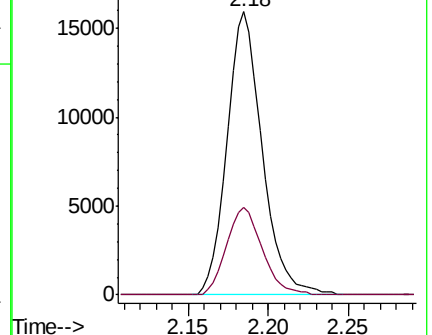
62 100

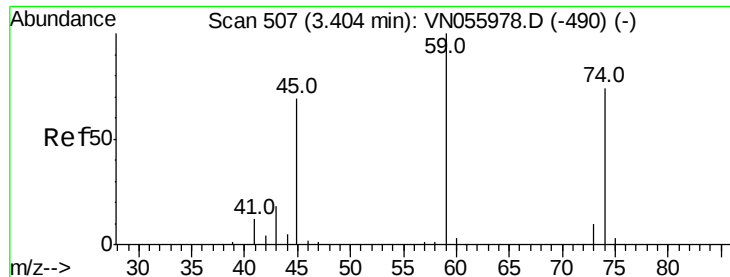
64 30.9 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN





#8

Diethyl Ether

Concen: 1.277 ug/l

RT: 3.41 min Scan# 508

Delta R.T. 0.00 min

Lab File: VN056047.D

Acq: 6 Jun 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

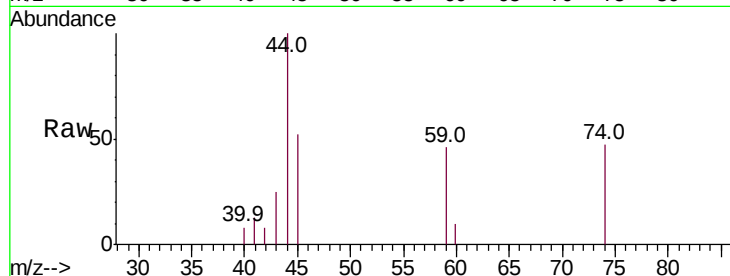
LF001MW003-190604

Tot Ion: 74 Resp: 2714

Ion Ratio Lower Upper

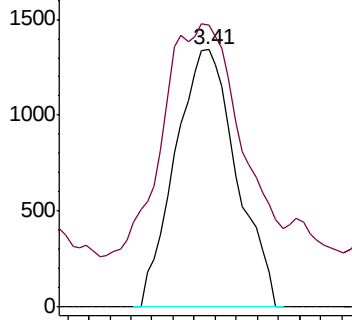
74 100

45 107.3 48.6 145.9

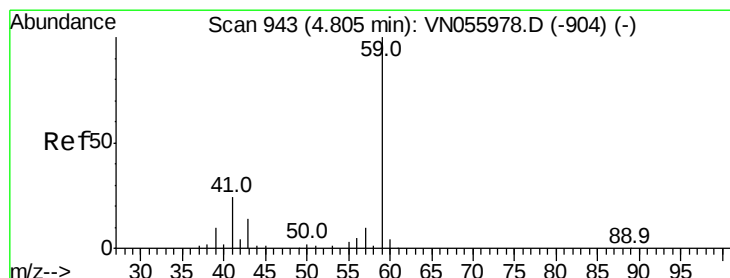
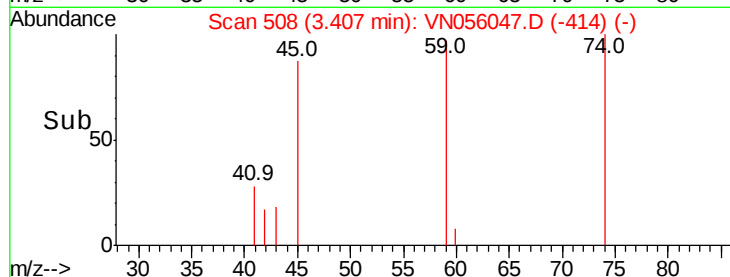


Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



Time-->



#11

Tert butyl alcohol

Concen: 22.864 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056047.D

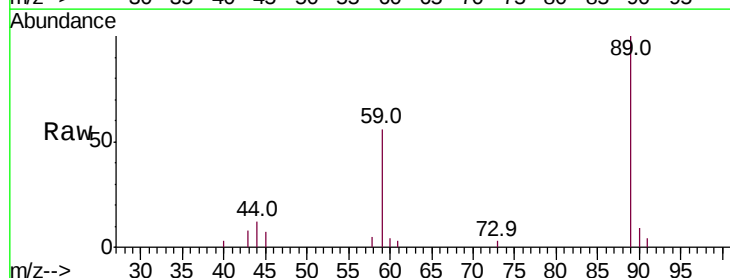
Acq: 6 Jun 2019 15:46

Tgt Ion: 59 Resp: 14713

Ion Ratio Lower Upper

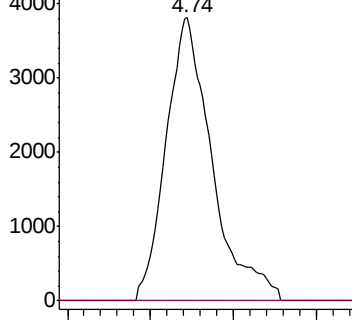
59 100

57 0.0 7.8 11.6#

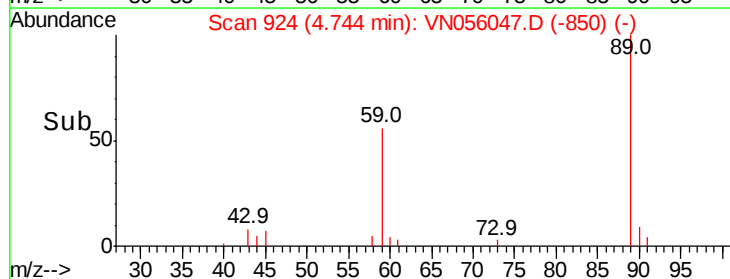


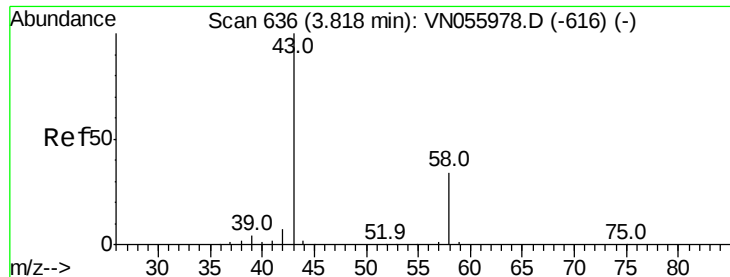
Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



Time-->





#16

Acetone

Concen: 0.523 ug/l

RT: 3.83 min Scan# 641

Delta R.T. 0.02 min

Lab File: VN056047.D

Acq: 6 Jun 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

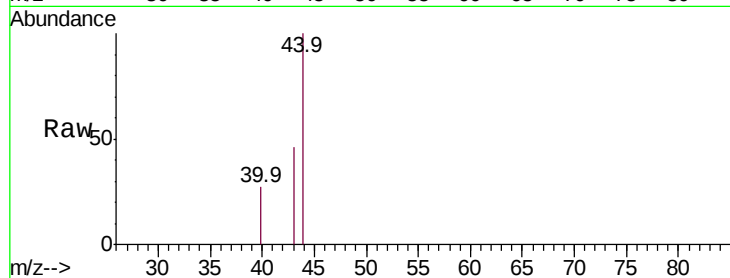
LF001MW003-190604

Tot Ion: 43 Resp: 925

Ion Ratio Lower Upper

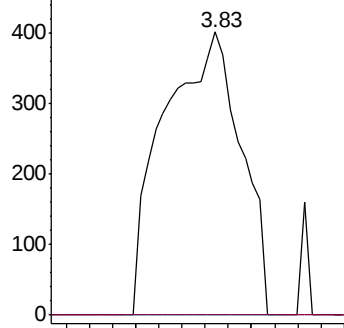
43 100

58 0.0 26.6 39.8#

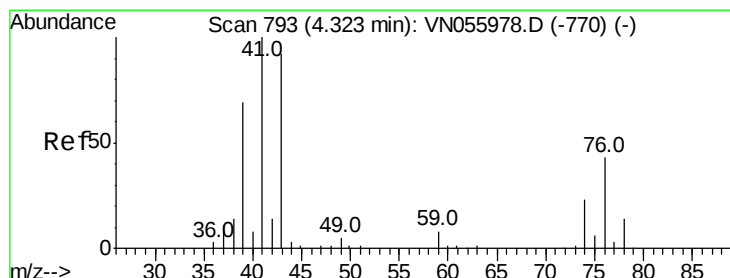
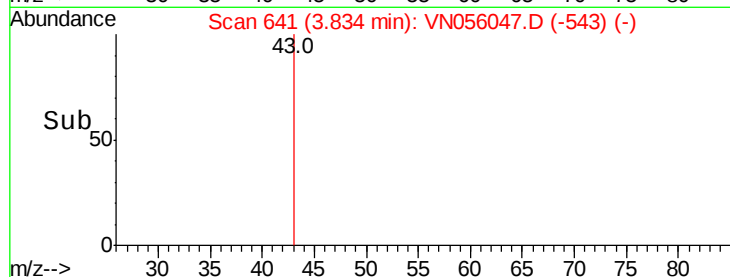


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN056047.D

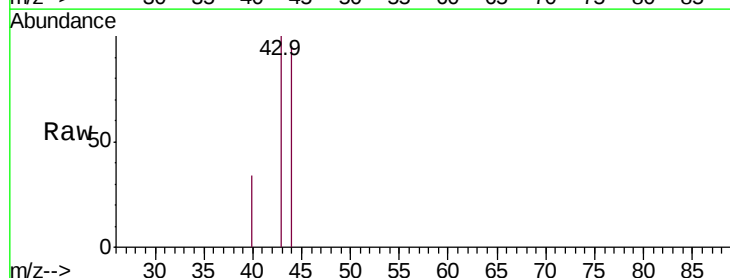
Acq: 6 Jun 2019 15:46

Tgt Ion: 43 Resp: 1169

Ion Ratio Lower Upper

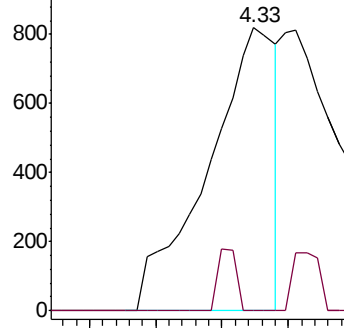
43 100

74 5.8 19.3 28.9#

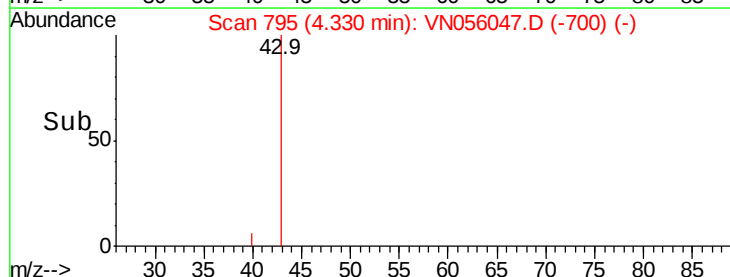


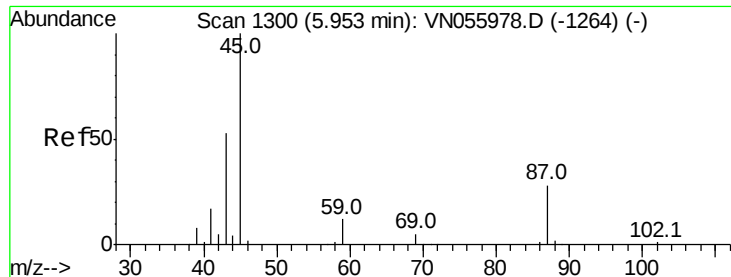
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



Time-->





#22

Diisopropyl ether

Concen: 0.399 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VN056047.D

Acq: 6 Jun 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

LF001MW003-190604

Tot Ion: 45 Resp: 4071

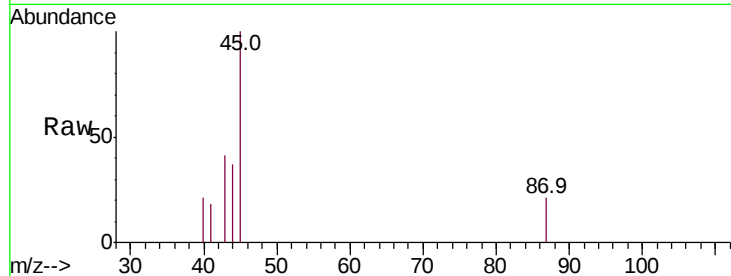
Ion Ratio Lower Upper

45 100

43 41.1 45.0 67.6#

87 21.3 22.2 33.4#

59 0.0 9.1 13.7#

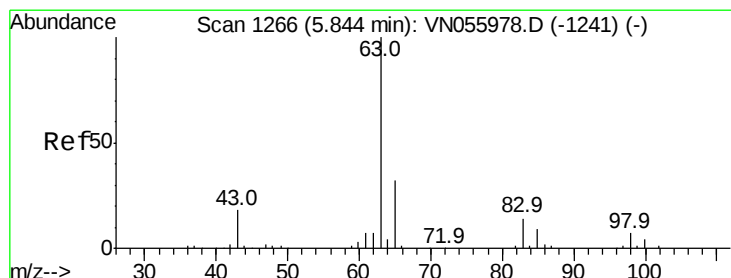
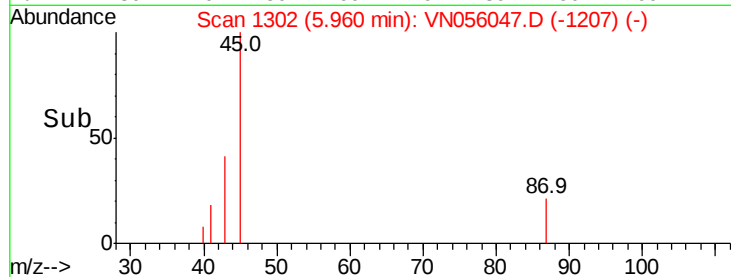
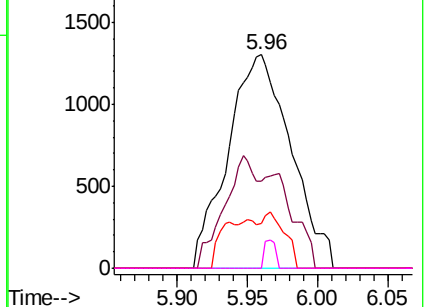


Abundance Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO



#24

1,1-Dichloroethane

Concen: 1.008 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.01 min

Lab File: VN056047.D

Acq: 6 Jun 2019 15:46

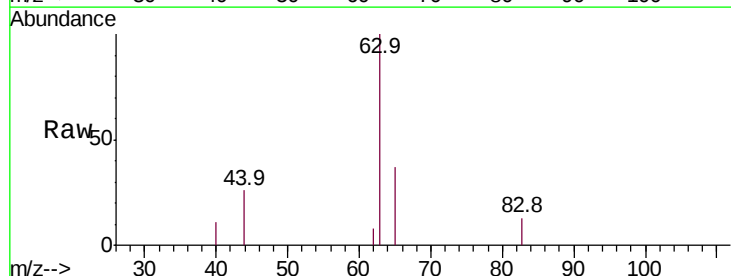
Tgt Ion: 63 Resp: 5935

Ion Ratio Lower Upper

63 100

98 0.0 3.4 10.1#

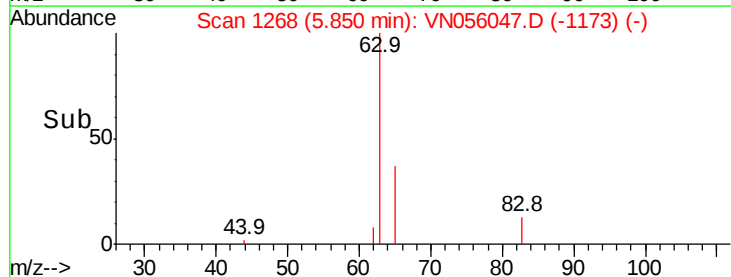
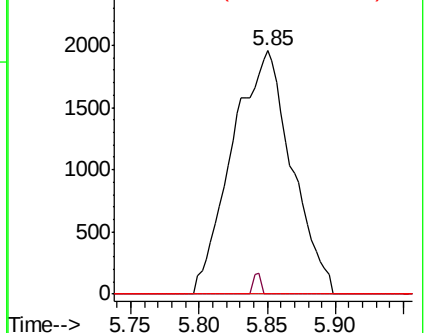
100 0.0 2.2 6.6#

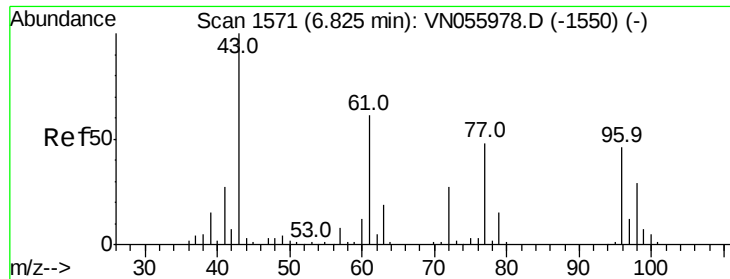


Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

Ion 99.90 (99.60 to 100.60): VNO





#27

cis-1,2-Dichloroethene

Concen: 0.994 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056047.D

Acq: 6 Jun 2019 15:46

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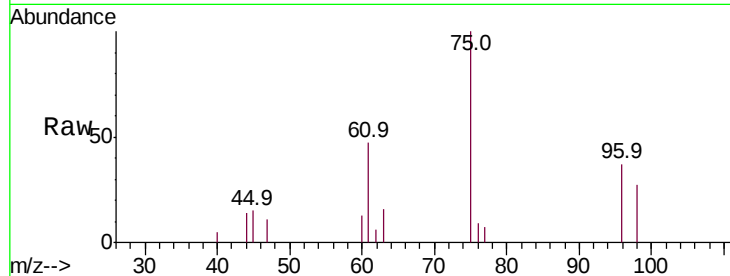
Tot Ion: 96 Resp: 3913

Ion Ratio Lower Upper

96 100

61 138.0 0.0 275.8

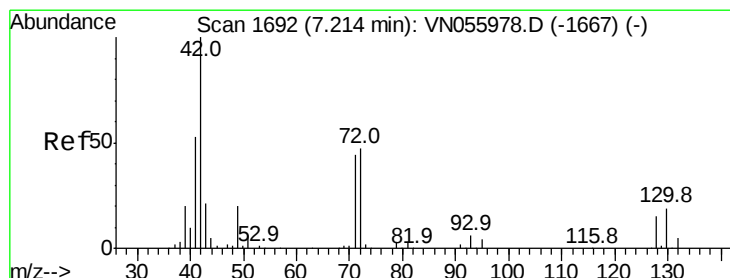
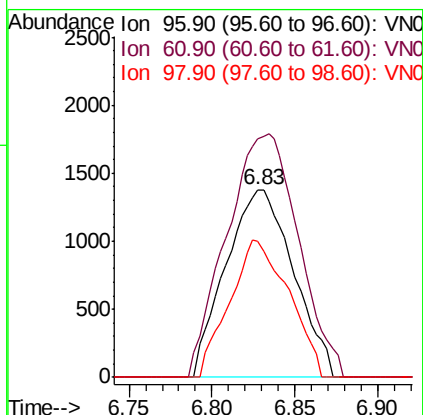
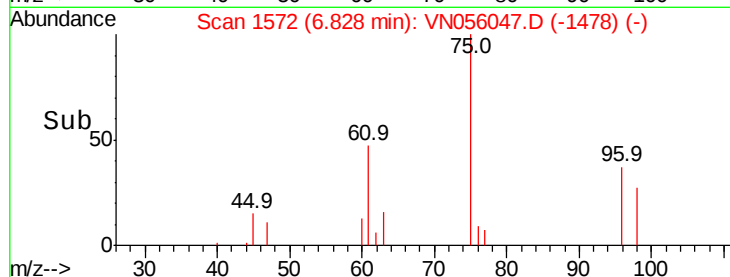
98 64.0 0.0 128.4



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



#29

Tetrahydrofuran

Concen: 1.554 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN056047.D

Acq: 6 Jun 2019 15:46

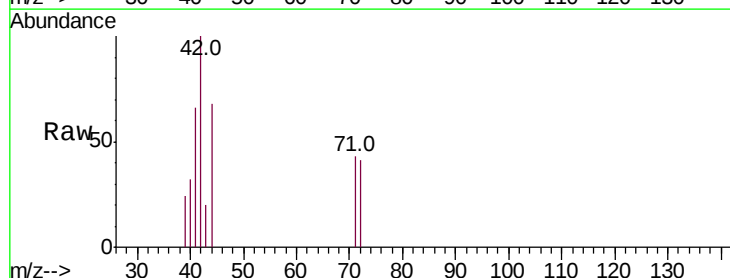
Tgt Ion: 42 Resp: 2146

Ion Ratio Lower Upper

42 100

72 36.6 35.9 53.9

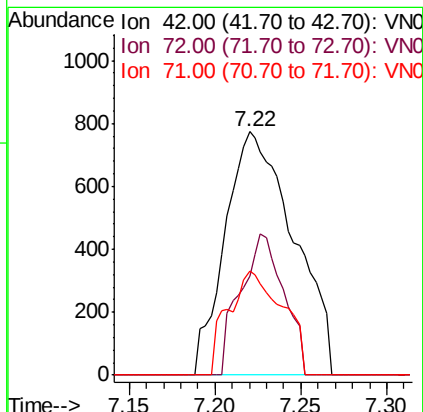
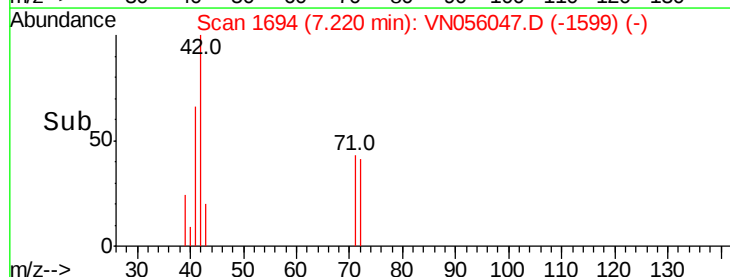
71 34.0 34.0 51.0#

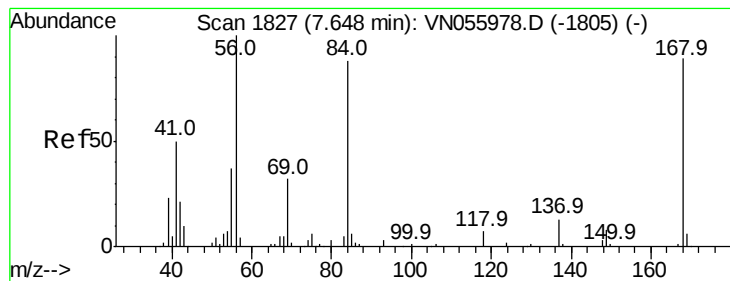


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 0.912 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056047.D

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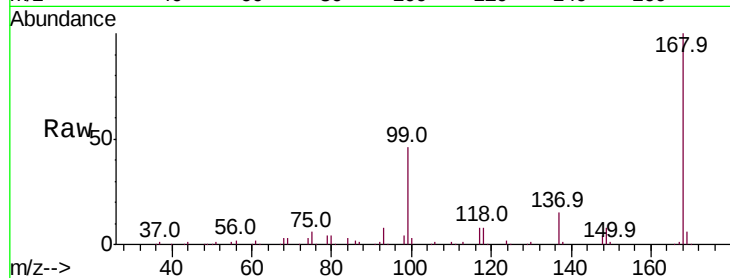
Tot Ion: 56 Resp: 5351

Ion Ratio Lower Upper

56 100

69 179.0 25.6 38.4#

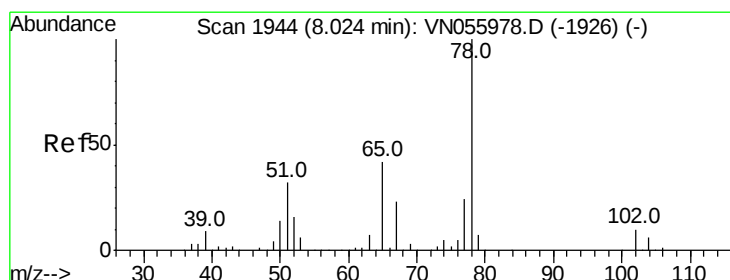
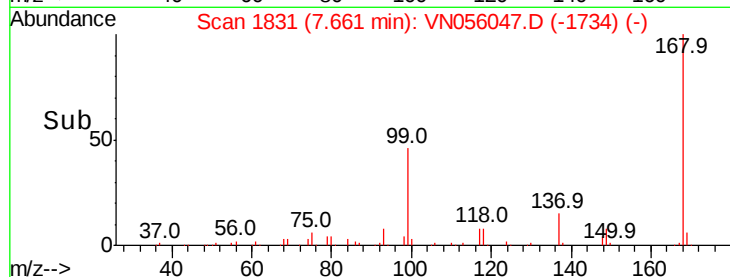
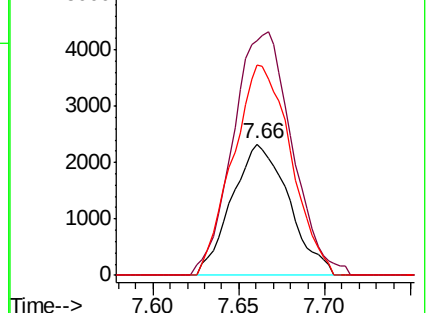
84 160.5 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN055978.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN055978.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN055978.D (-1805) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.683 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN056047.D

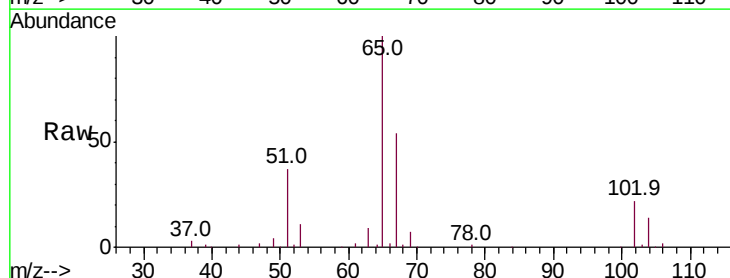
Acq: 6 Jun 2019 15:46

Tgt Ion: 65 Resp: 191118

Ion Ratio Lower Upper

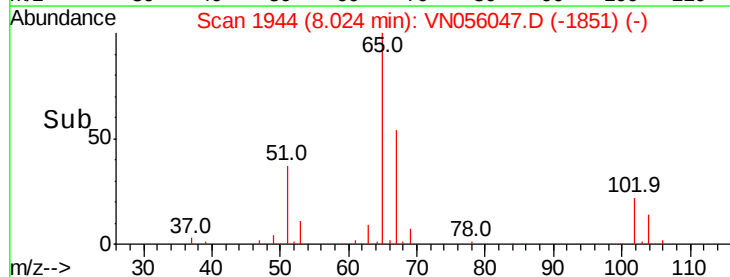
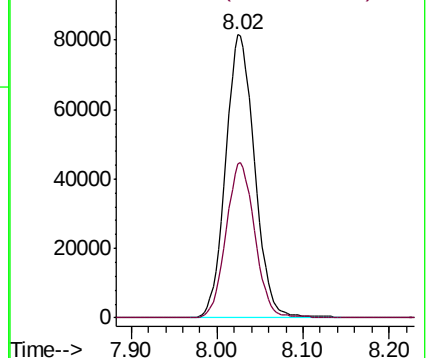
65 100

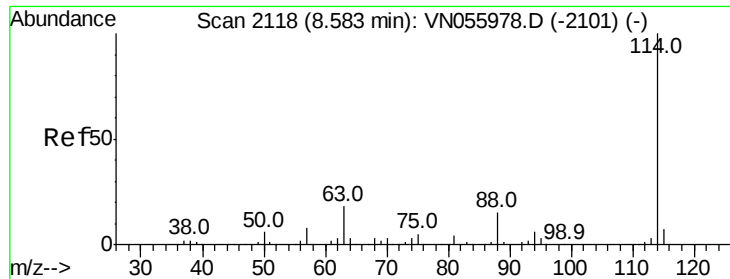
67 54.4 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN055978.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN055978.D (-1926) (-)

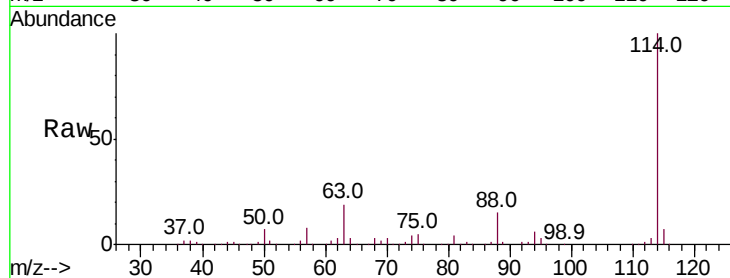




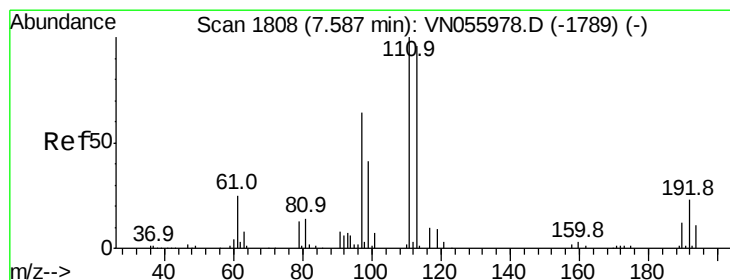
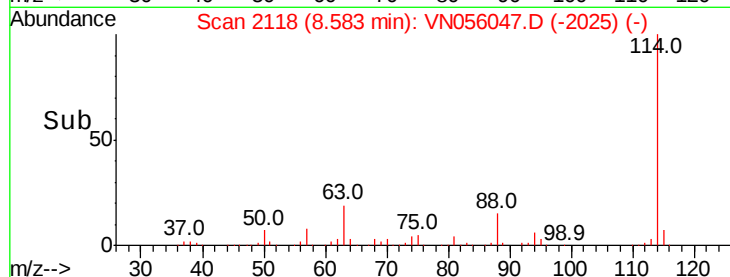
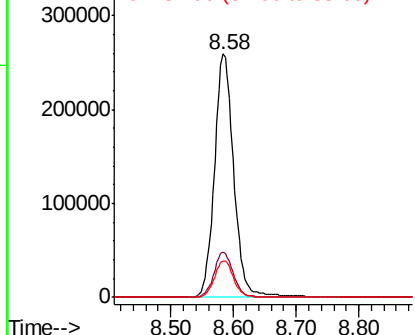
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056047.D
 Acq: 6 Jun 2019 15:46

Instrument :
 MSVOA_N
 ClientSampleId :
 LF001MW003-190604

Tot Ion:114 Resp: 555261
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.2
 88 15.1 0.0 31.0

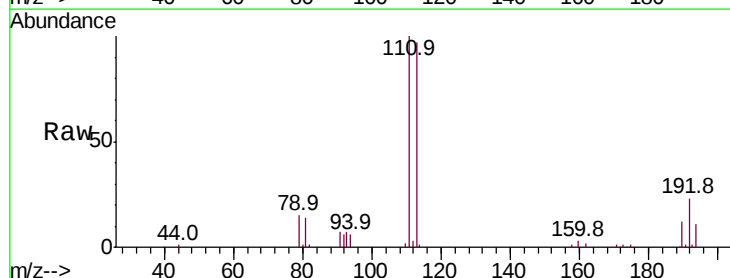


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

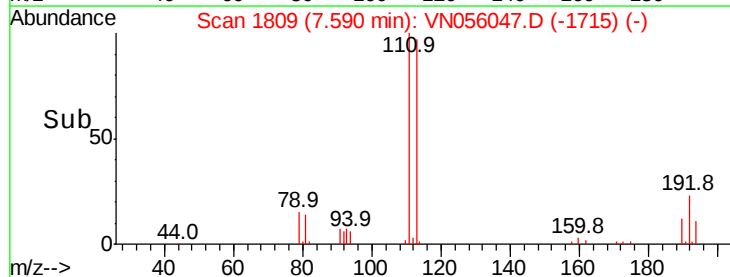
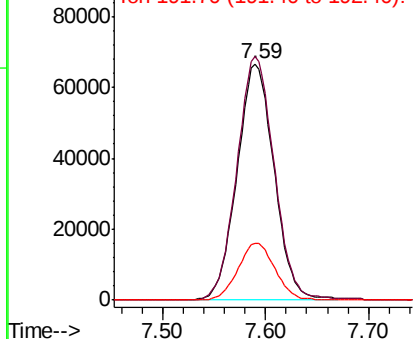


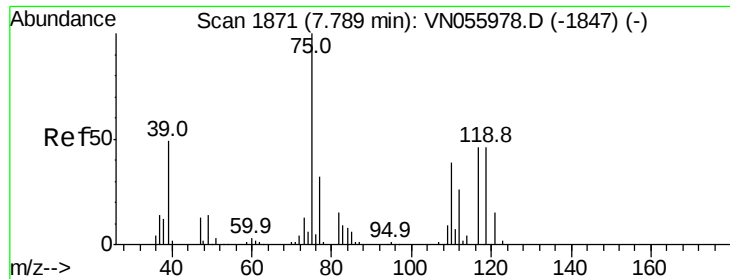
#35
 Dibromofluoromethane
 Concen: 48.860 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056047.D
 Acq: 6 Jun 2019 15:46

Tgt Ion:113 Resp: 166451
 Ion Ratio Lower Upper
 113 100
 111 103.9 81.9 122.9
 192 24.1 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

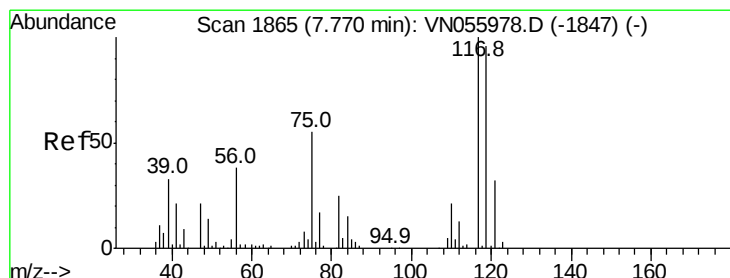
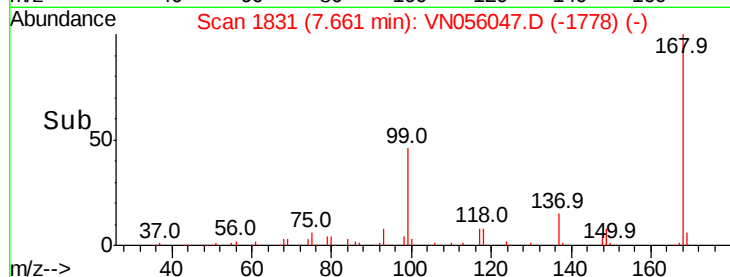
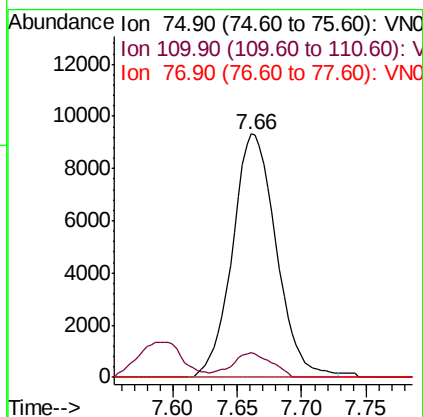
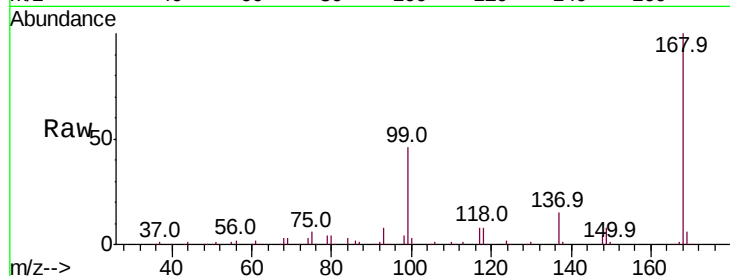




#36
 1,1-Dichloropropene
 Concen: 4.621 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056047.D
 Acq: 6 Jun 2019 15:46

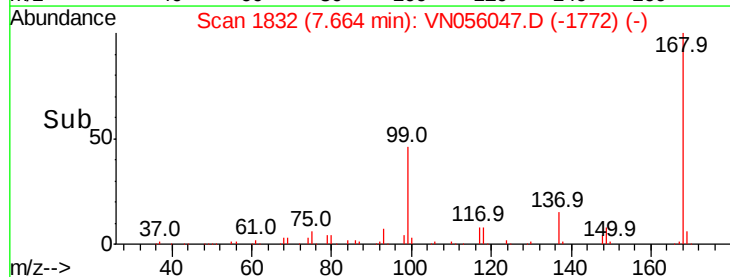
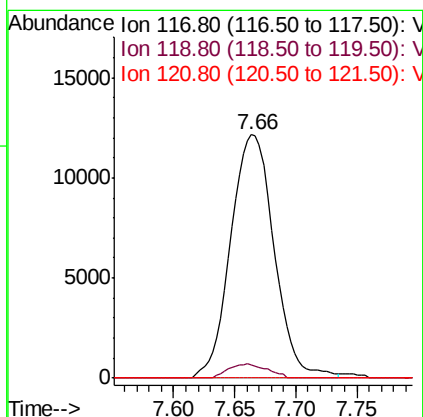
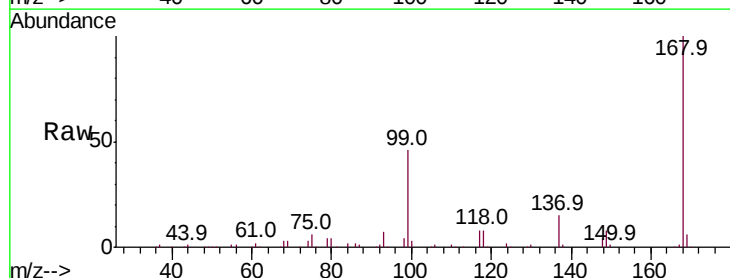
Instrument :
 MSVOA_N
 ClientSampleId :
 LF001MW003-190604

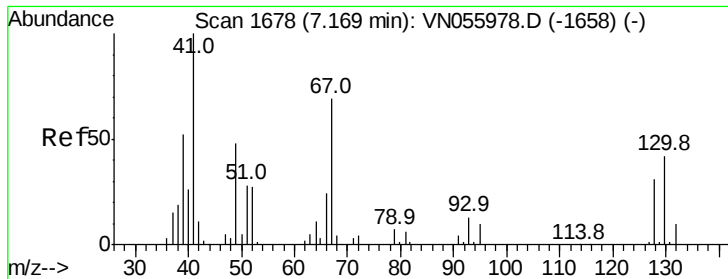
Tot Ion: 75 Resp: 22065
 Ion Ratio Lower Upper
 75 100
 110 9.1 19.0 57.0#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.822 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056047.D
 Acq: 6 Jun 2019 15:46

Tgt Ion: 117 Resp: 30027
 Ion Ratio Lower Upper
 117 100
 119 5.5 79.0 118.6#
 121 0.0 24.7 37.1#

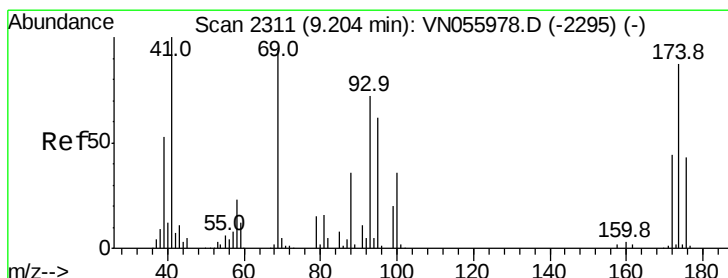
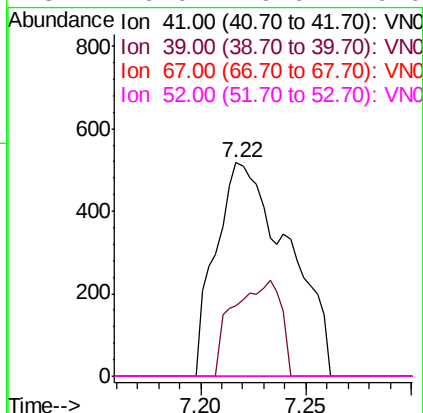
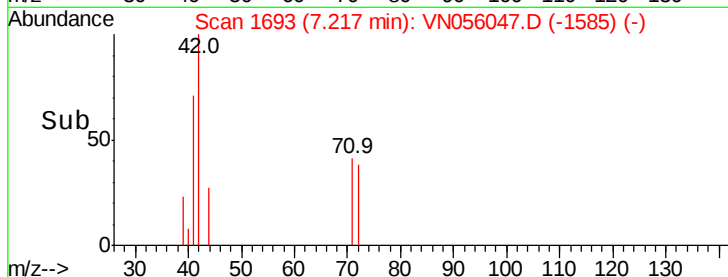
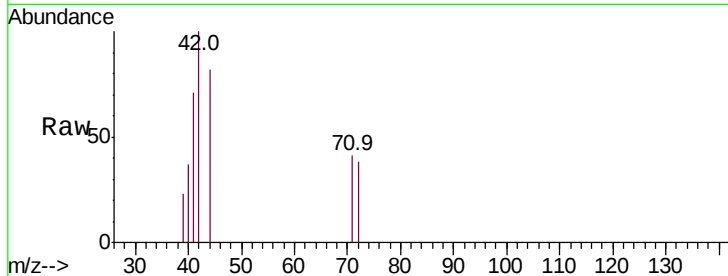




#41
Methacrylonitrile
Concen: 0.631 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.05 min
Lab File: VN056047.D
Acq: 6 Jun 2019 15:46

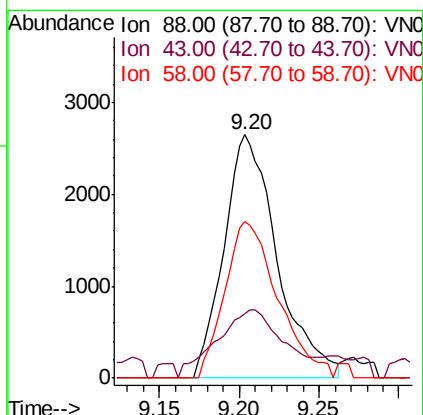
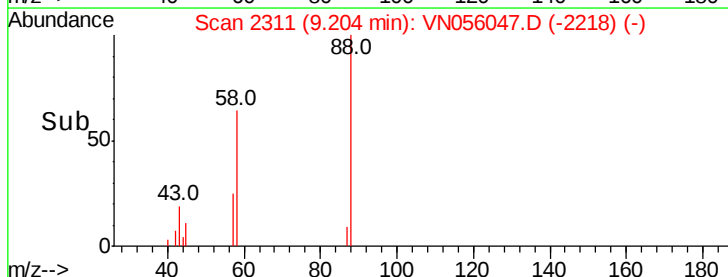
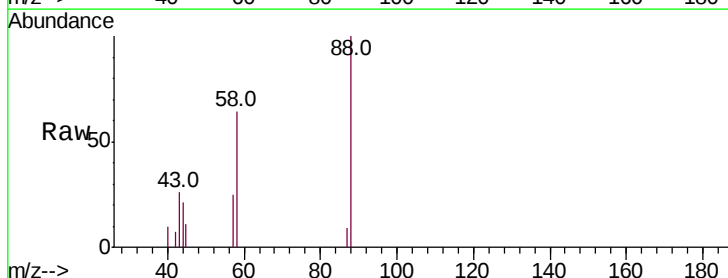
Instrument :
MSVOA_N
ClientSampleId :
LF001MW003-190604

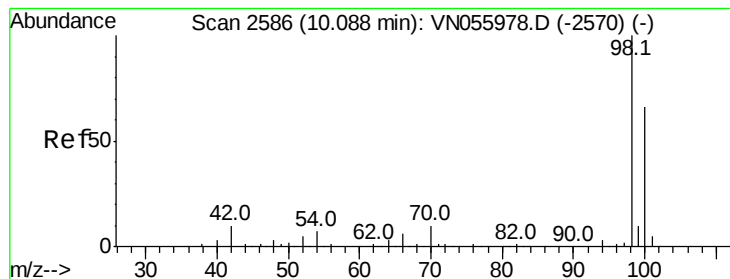
Tot Ion: 41 Resp: 1234
Ion Ratio Lower Upper
41 100
39 29.4 45.6 68.4#
67 0.0 67.7 101.5#
52 0.0 26.6 40.0#



#49
1,4-Dioxane
Concen: 83.224 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN056047.D
Acq: 6 Jun 2019 15:46

Tgt Ion: 88 Resp: 6051
Ion Ratio Lower Upper
88 100
43 35.8 20.5 30.7#
58 64.0 55.8 83.6





#50

Toluene-d8

Concen: 52.857 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056047.D

Acq: 6 Jun 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

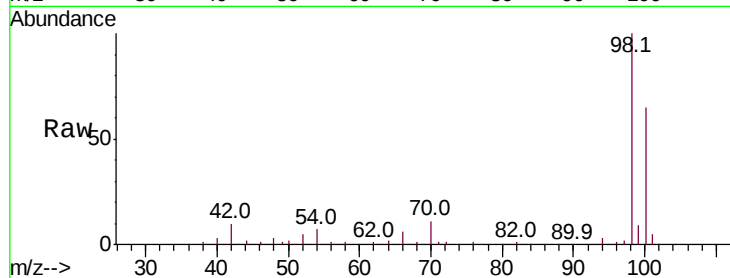
LF001MW003-190604

Tot Ion: 98 Resp: 692900

Ion Ratio Lower Upper

98 100

100 65.0 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

400000

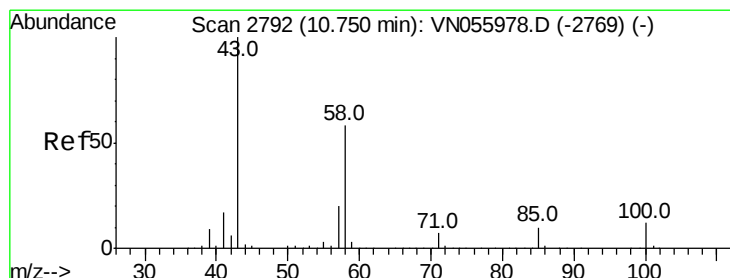
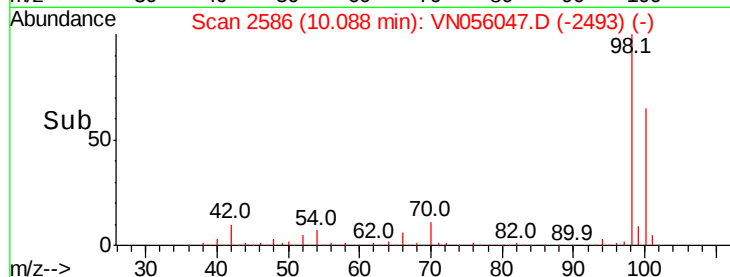
300000

200000

100000

0

Time-->



#59

2-Hexanone

Concen: 0.374 ug/l

RT: 10.85 min Scan# 2822

Delta R.T. 0.10 min

Lab File: VN056047.D

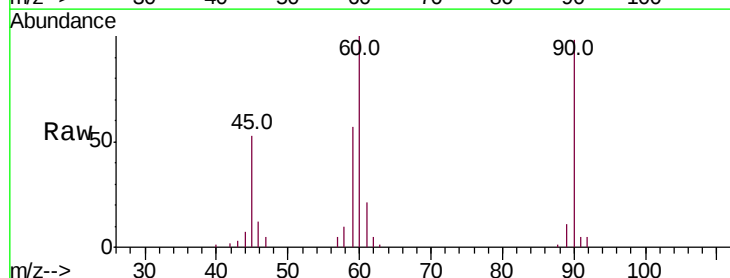
Acq: 6 Jun 2019 15:46

Tgt Ion: 43 Resp: 1166

Ion Ratio Lower Upper

43 100

58 320.1 28.2 84.7#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2769) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2769) (-)

2000

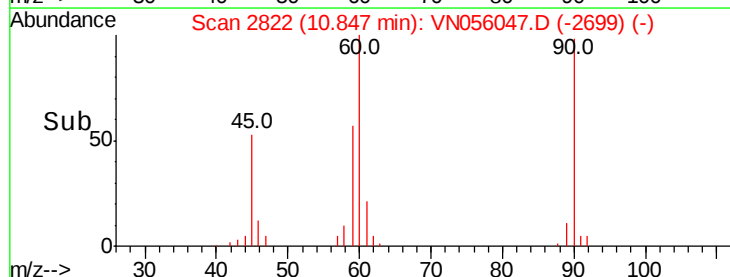
1500

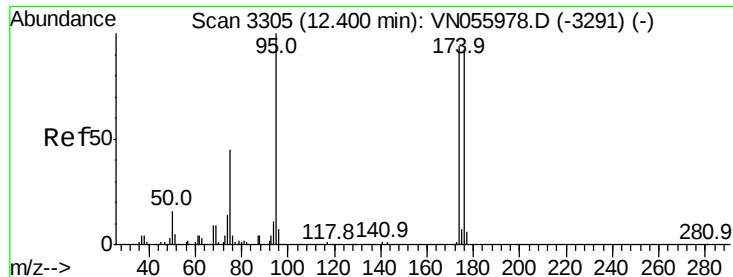
1000

500

0

Time-->

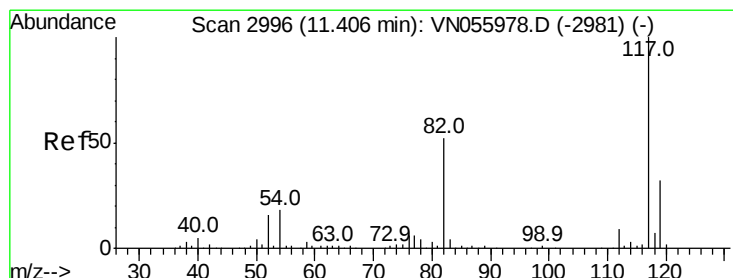
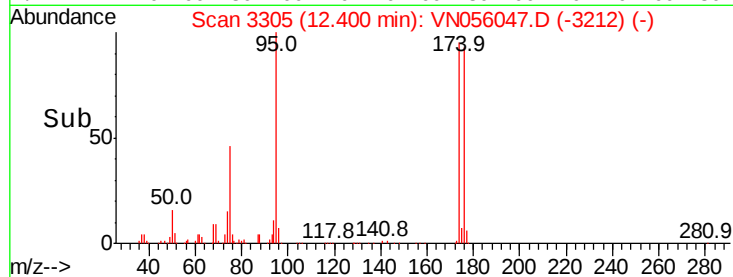
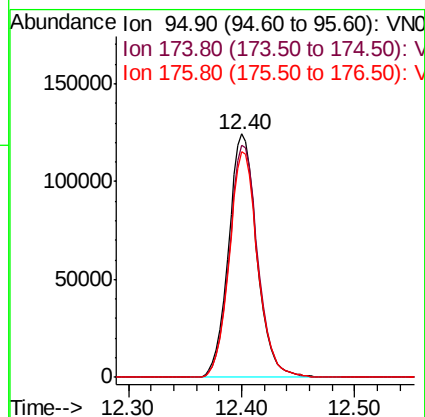
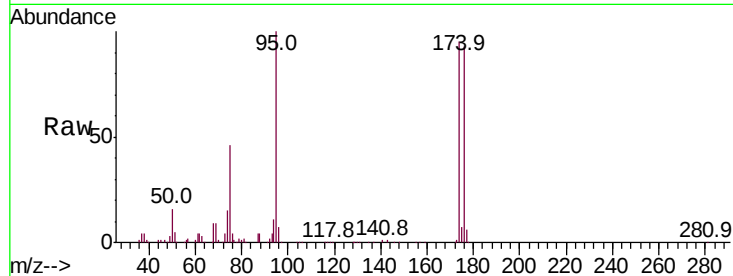




#62
4-Bromofluorobenzene
Concen: 48.508 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056047.D
Acq: 6 Jun 2019 15:46

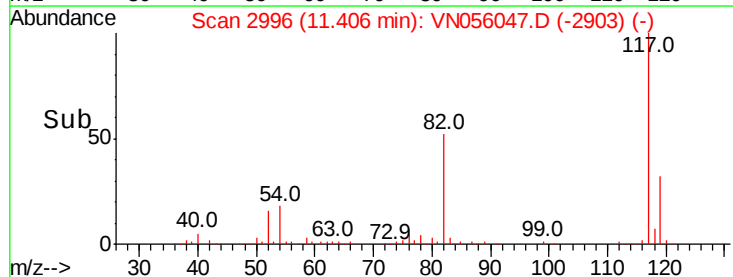
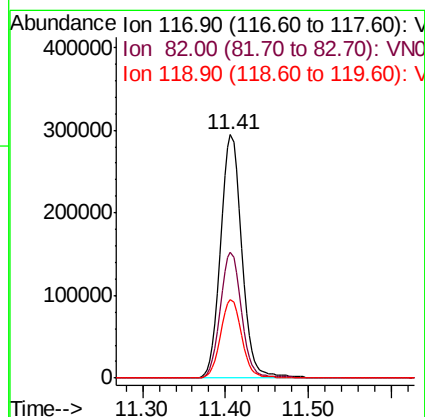
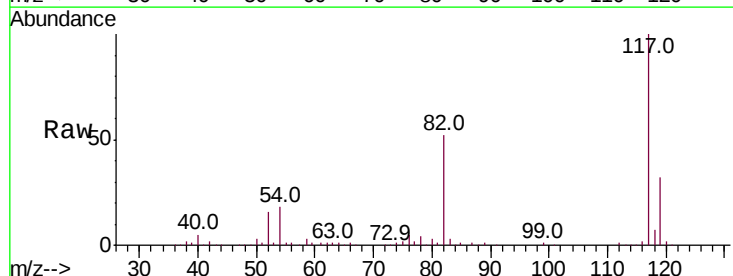
Instrument :
MSVOA_N
ClientSampleId :
LF001MW003-190604

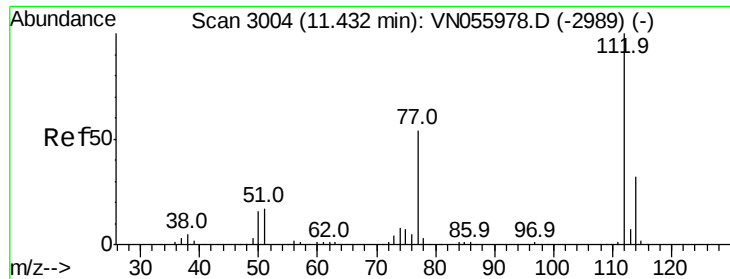
Tot Ion: 95 Resp: 216250
Ion Ratio Lower Upper
95 100
174 96.1 0.0 191.0
176 92.9 0.0 185.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056047.D
Acq: 6 Jun 2019 15:46

Tgt Ion: 117 Resp: 521328
Ion Ratio Lower Upper
117 100
82 51.8 41.8 62.8
119 32.2 25.4 38.0

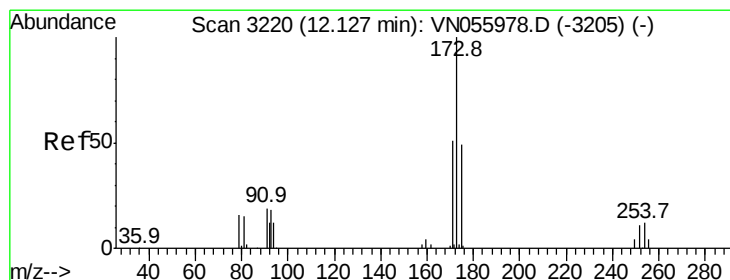
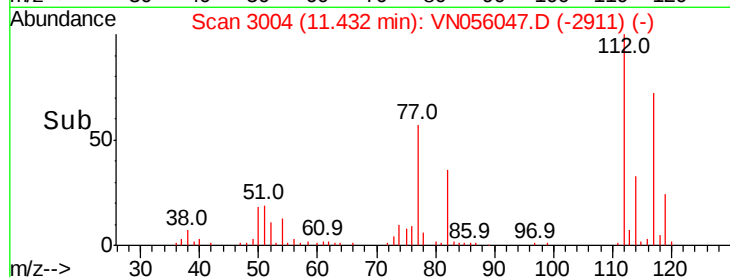
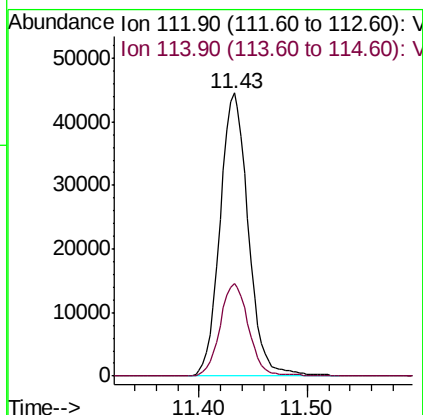
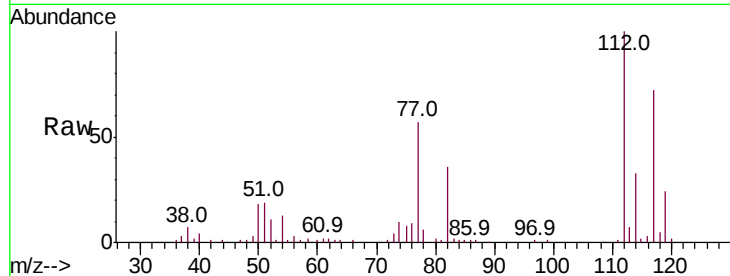




#65
Chlorobenzene
Concen: 7.845 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN056047.D
Acq: 6 Jun 2019 15:46

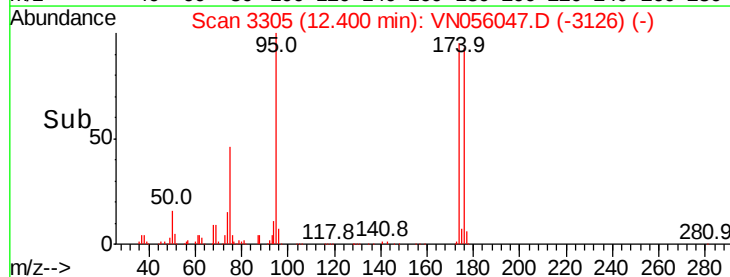
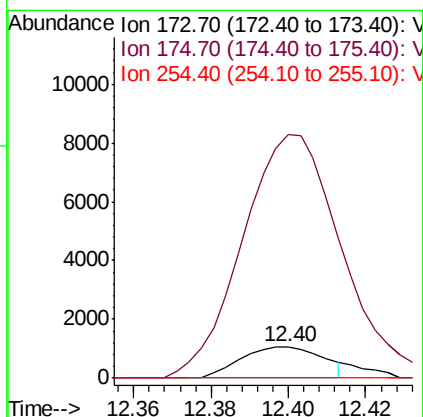
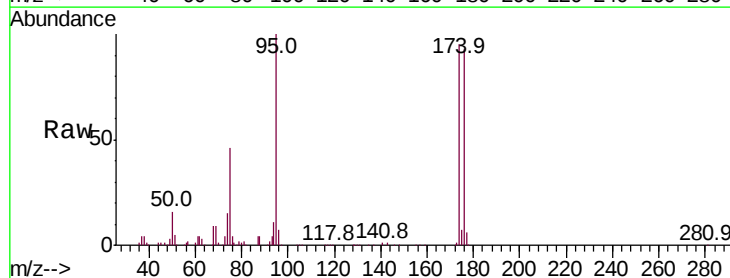
Instrument :
MSVOA_N
ClientSampleId :
LF001MW003-190604

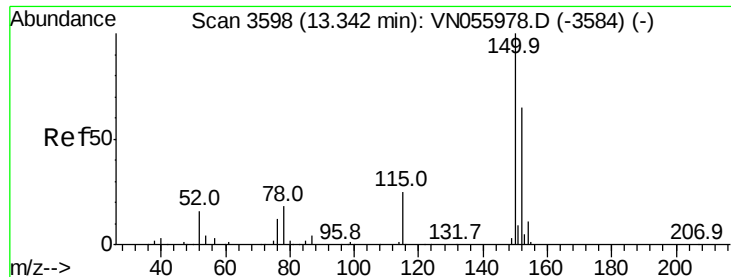
Tot Ion:112 Resp: 81396
Ion Ratio Lower Upper
112 100
114 32.5 26.2 39.4



#71
Bromoform
Concen: 3.238 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056047.D
Acq: 6 Jun 2019 15:46

Tgt Ion:173 Resp: 1579
Ion Ratio Lower Upper
173 100
175 807.5 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056047.D

Acq: 6 Jun 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

LF001MW003-190604

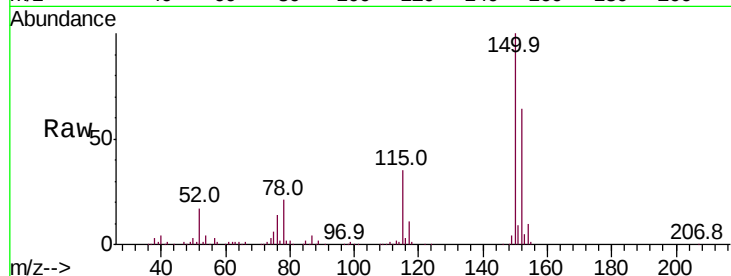
Tot Ion:152 Resp: 164841

Ion Ratio Lower Upper

152 100

115 53.8 27.0 81.0

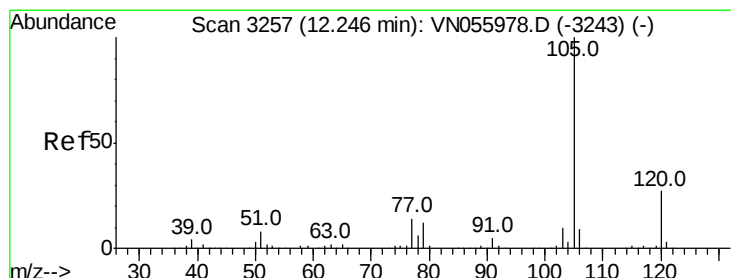
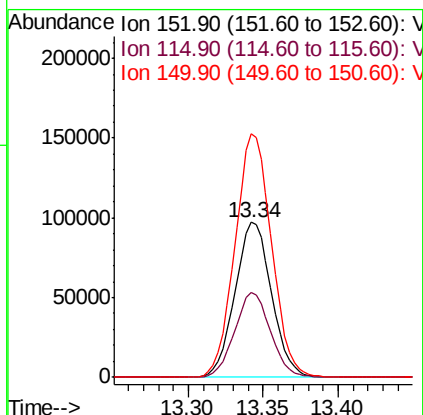
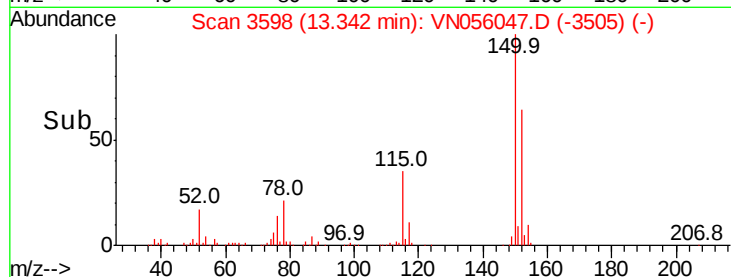
150 157.4 0.0 343.2



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# 3258

Delta R.T. 0.00 min

Lab File: VN056047.D

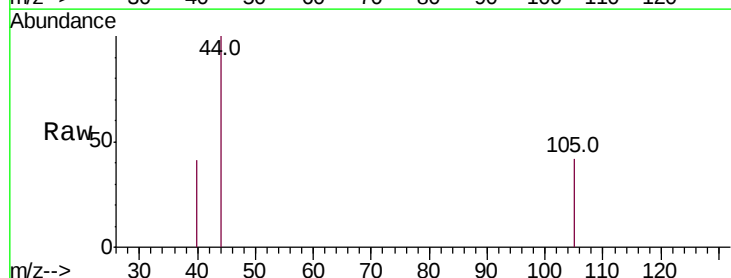
Acq: 6 Jun 2019 15:46

Tgt Ion:105 Resp: 192

Ion Ratio Lower Upper

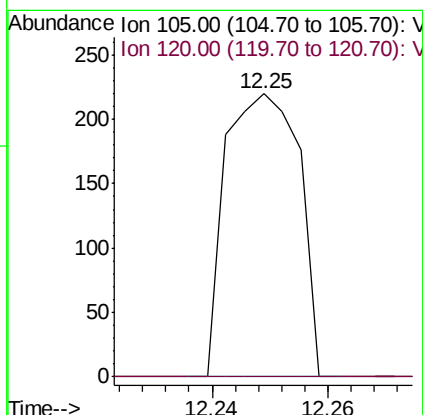
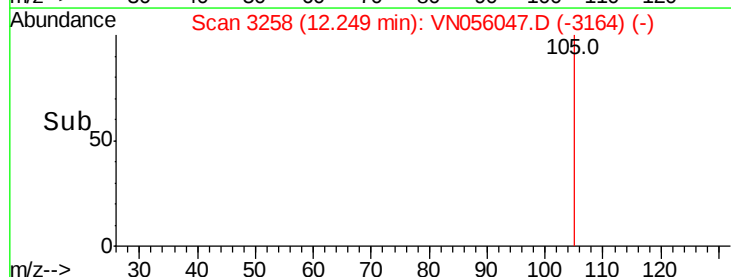
105 100

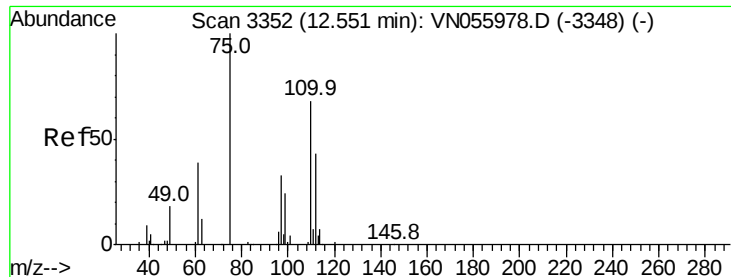
120 0.0 13.6 40.7#



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: 32.440 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056047.D

Acq: 6 Jun 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

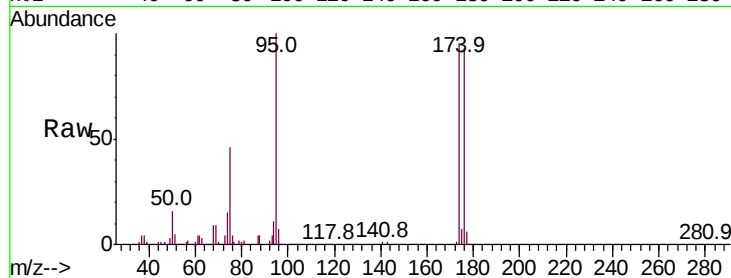
LF001MW003-190604

Tot Ion: 75 Resp: 98395

Ion Ratio Lower Upper

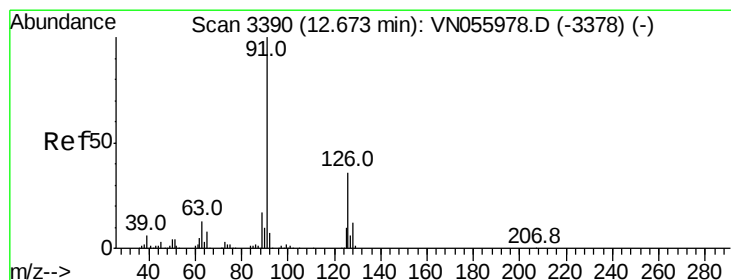
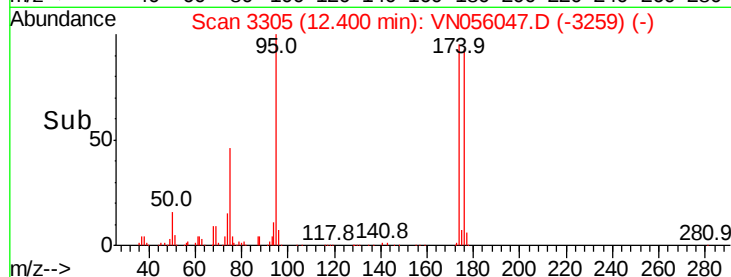
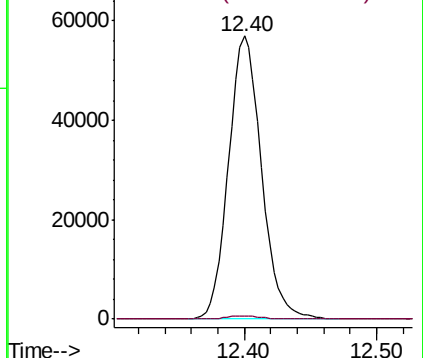
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056047.D

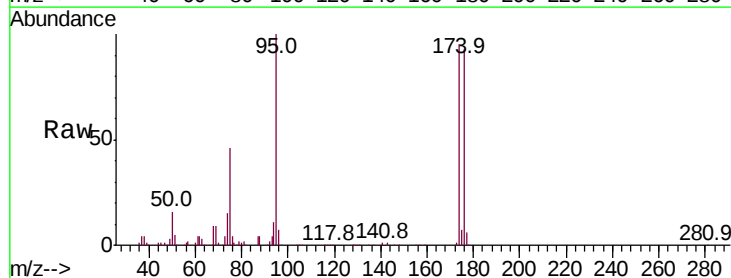
Acq: 6 Jun 2019 15:46

Tgt Ion: 91 Resp: 621

Ion Ratio Lower Upper

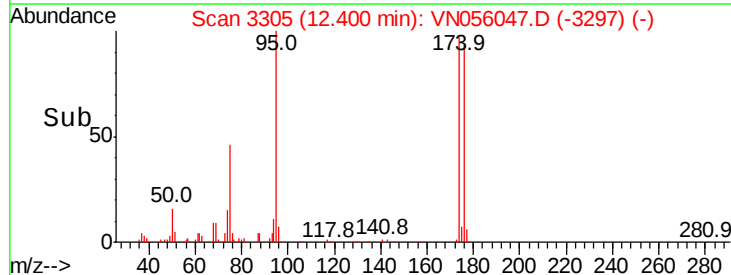
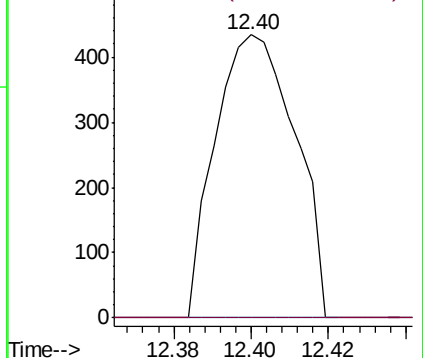
91 100

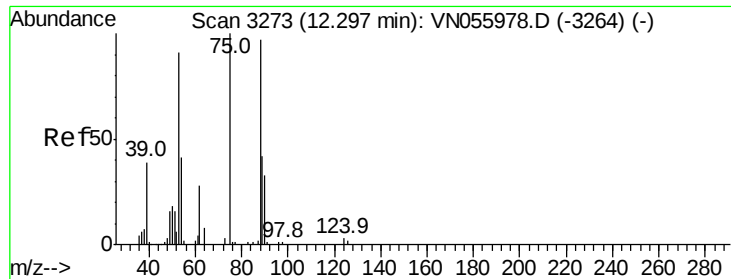
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 108.031 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056047.D

Acq: 6 Jun 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

LF001MW003-190604

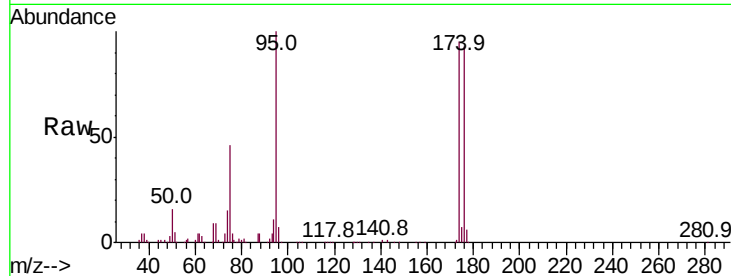
Tot Ion: 75 Resp: 98395

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

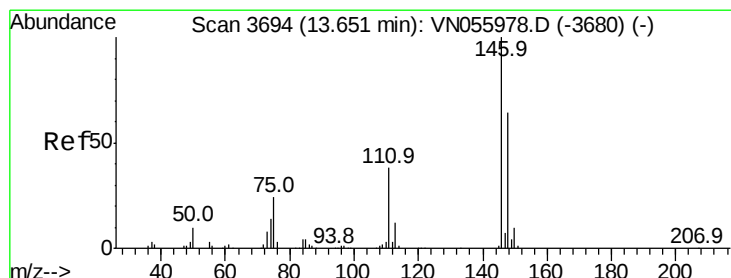
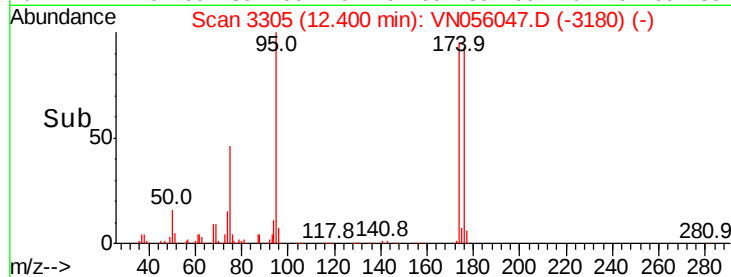
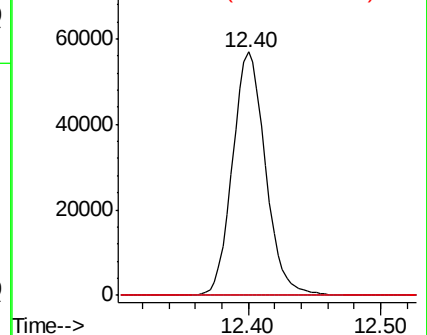
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#91

1,2-Dichlorobenzene

Concen: 1.705 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN056047.D

Acq: 6 Jun 2019 15:46

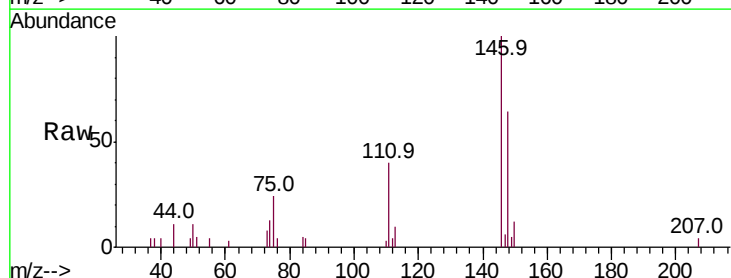
Tgt Ion: 146 Resp: 9405

Ion Ratio Lower Upper

146 100

111 39.0 19.1 57.5

148 65.2 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): VN055978.D (-3680) (-)

Ion 110.90 (110.60 to 111.60): VN055978.D (-3680) (-)

Ion 147.90 (147.60 to 148.60): VN055978.D (-3680) (-)

