

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055812.D
 Acq On : 24 May 2019 22:49
 Operator : JC/SP
 Sample : K3037-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20190522

Quant Time: May 25 04:31:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	418126	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	591821	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	532200	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	184990	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	195108	45.18	ug/l	0.00
Spiked Amount			Recovery	=	90.36%	
35) Dibromofluoromethane	7.59	113	175515	46.91	ug/l	0.00
Spiked Amount			Recovery	=	93.82%	
50) Toluene-d8	10.09	98	695754	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
62) 4-Bromofluorobenzene	12.40	95	224846	45.69	ug/l	0.00
Spiked Amount			Recovery	=	91.38%	

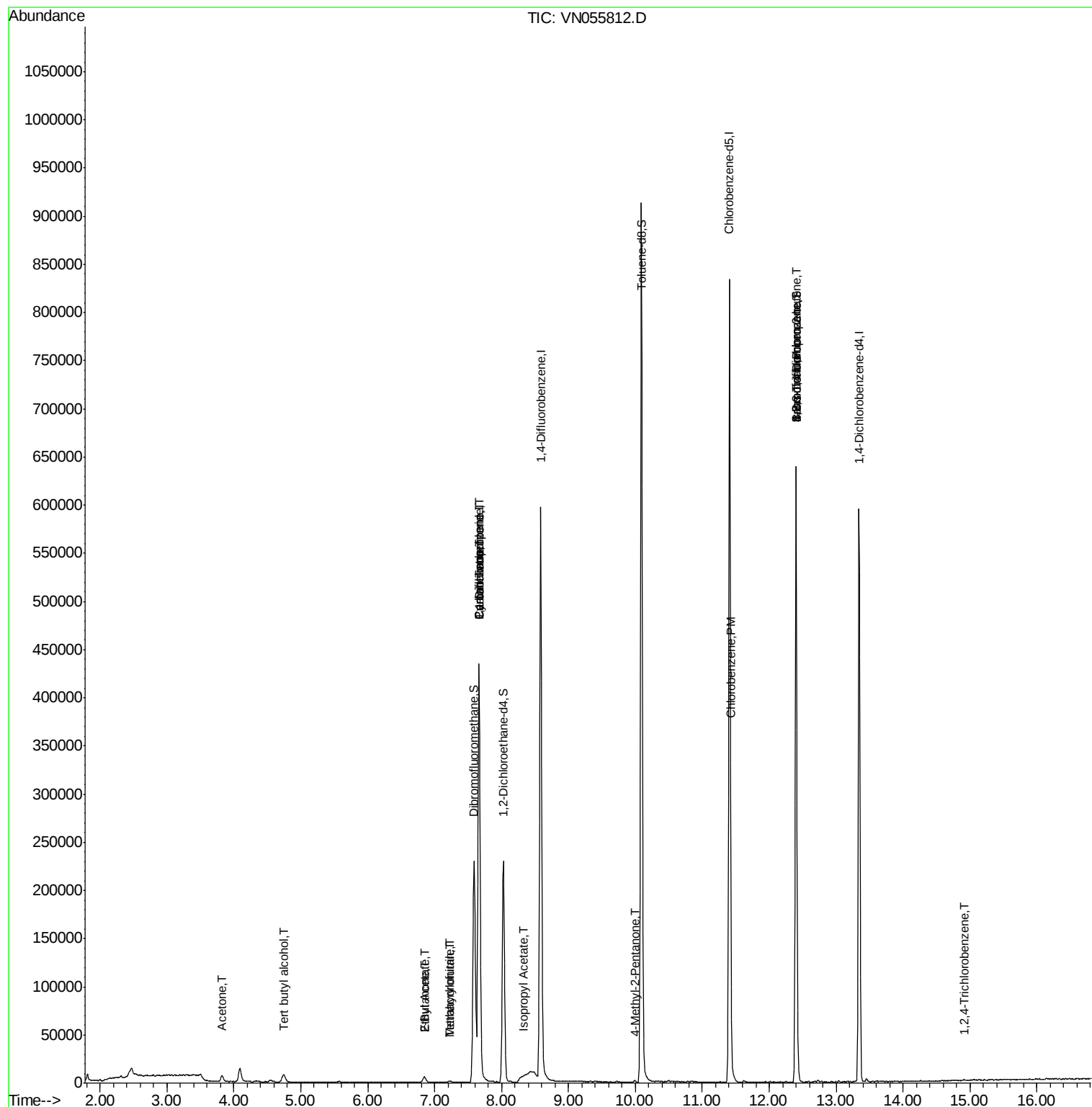
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	7647	9.269	ug/l #	74
16) Acetone	3.82	43	11223	5.913	ug/l	96
18) Methyl Acetate	4.33	43	3067	Below Cal	#	73
25) 2-Butanone	6.86	43	1924	0.726	ug/l	94
29) Tetrahydrofuran	7.22	42	579	0.345	ug/l #	68
31) Cyclohexane	7.66	56	5876	0.907	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	23807	4.616	ug/l #	48
37) Ethyl Acetate	6.86	43	1924	0.386	ug/l #	67
38) Carbon Tetrachloride	7.67	117	33057	6.153	ug/l #	14
41) Methacrylonitrile	7.23	41	625	0.248	ug/l #	19
43) Isopropyl Acetate	8.32	43	8817	1.053	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	2083	0.421	ug/l #	58
65) Chlorobenzene	11.43	112	3144	0.295	ug/l	89
71) Bromoform	12.41	173	1456	0.402	ug/l #	1
73) Isopropylbenzene	12.25	105	291	Below Cal	#	48
74) N-amyl acetate	12.06	43	161	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	101713	30.717	ug/l #	100
79) 2-Chlorotoluene	12.68	91	192	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	375	Below Cal		78
81) trans-1,4-Dichloro-2-buten	12.40	75	101713	73.979	ug/l #	15
83) tert-Butylbenzene	12.99	119	139	Below Cal	#	28
84) 1,2,4-Trimethylbenzene	13.04	105	1073	Below Cal		83
85) sec-Butylbenzene	13.17	105	421	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.91	180	403	3.741	ug/l #	63

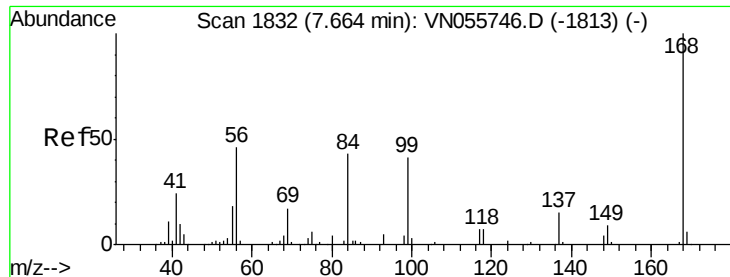
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052419\
Data File : VN055812.D
Acq On : 24 May 2019 22:49
Operator : JC/SP
Sample : K3037-09
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
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ClientSampleId :
TB-20190522

Quant Time: May 25 04:31:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
Quant Title : SW846 8260
QLast Update : Fri May 24 06:41:54 2019
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: VN055812.D

Acq: 24 May 2019 22:49

Instrument :

MSVOA_N

ClientSampleId :

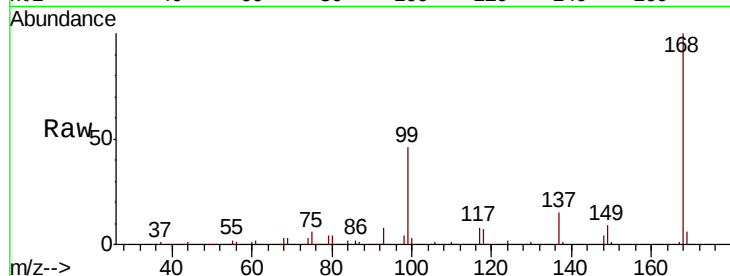
TB-20190522

Tot Ion:168 Resp: 418126

Ion Ratio Lower Upper

168 100

99 46.2 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055812.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055812.D (-1739) (-)

7.66

150000

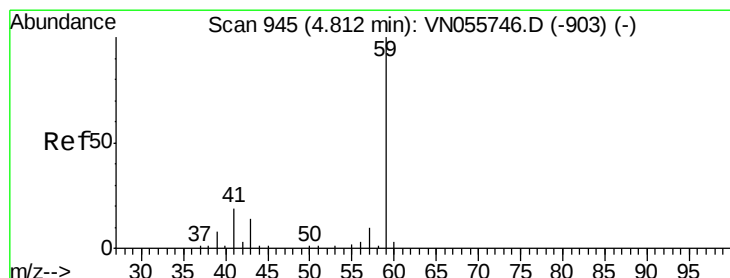
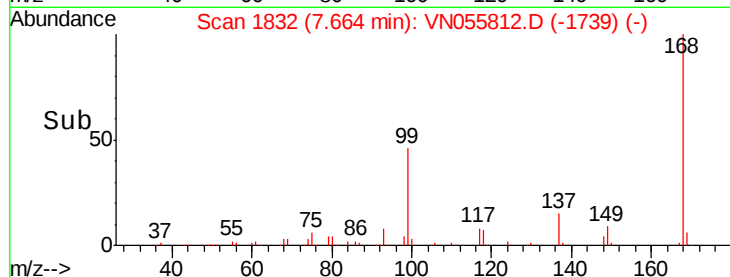
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 9.269 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.08 min

Lab File: VN055812.D

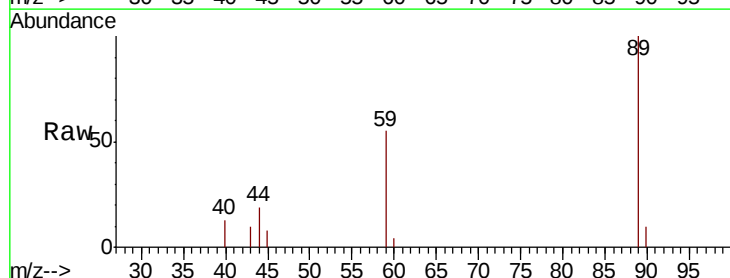
Acq: 24 May 2019 22:49

Tgt Ion: 59 Resp: 7647

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055812.D (-852) (-)

Ion 57.00 (56.70 to 57.70): VN055812.D (-852) (-)

4.73

2500

2000

1500

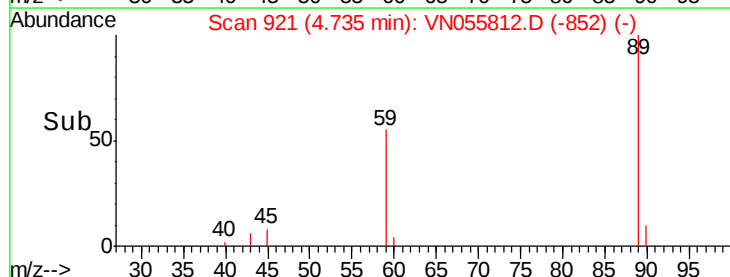
1000

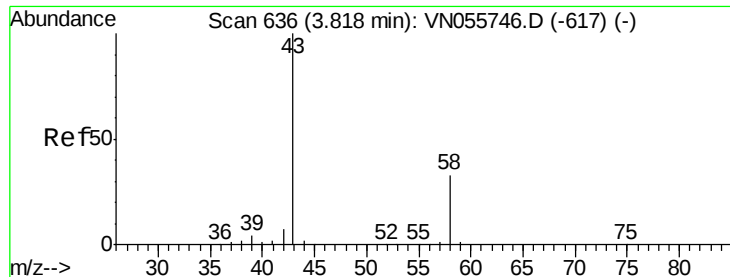
500

0

4.70 4.80

Time-->





#16

Acetone

Concen: 5.913 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055812.D

Acq: 24 May 2019 22:49

Instrument :

MSVOA_N

ClientSampled :

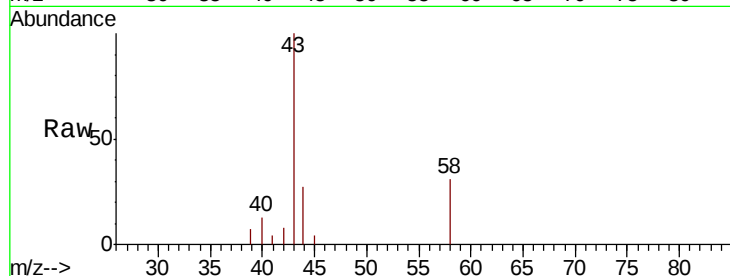
TB-20190522

Tot Ion: 43 Resp: 11223

Ion Ratio Lower Upper

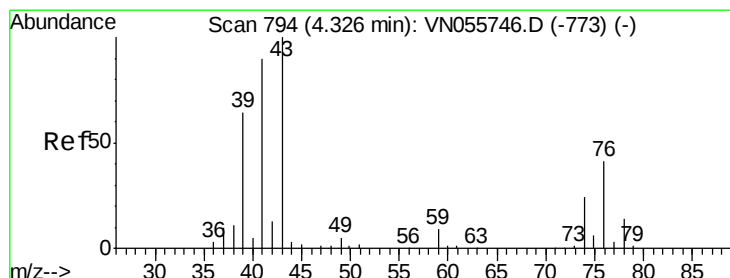
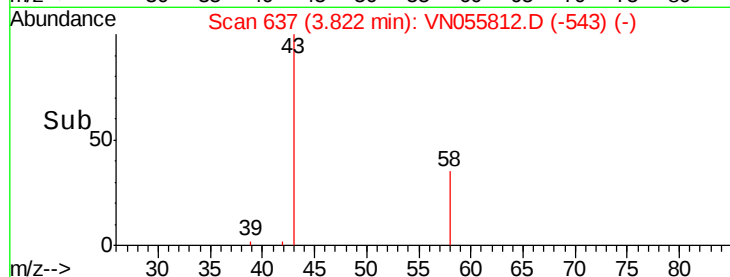
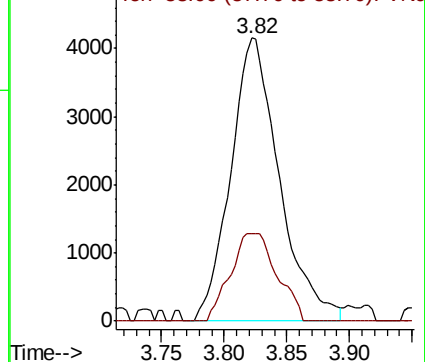
43 100

58 30.8 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN055812.D

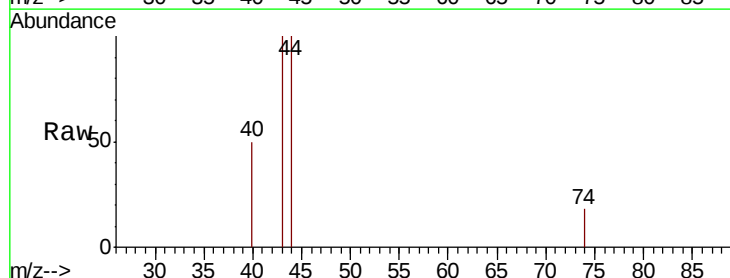
Acq: 24 May 2019 22:49

Tgt Ion: 43 Resp: 3067

Ion Ratio Lower Upper

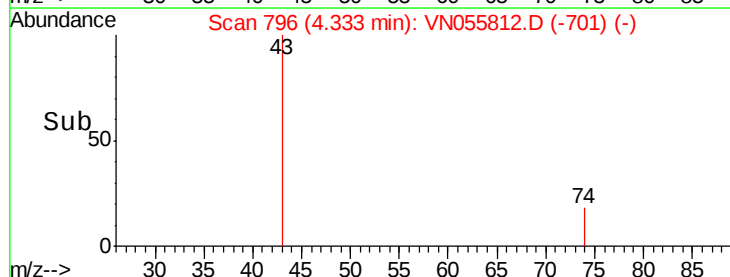
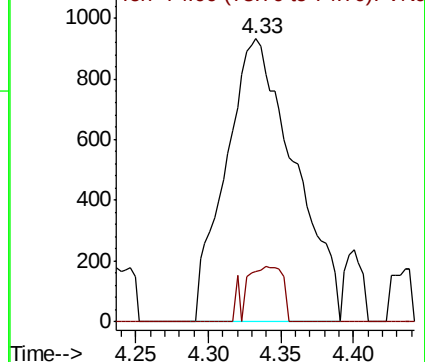
43 100

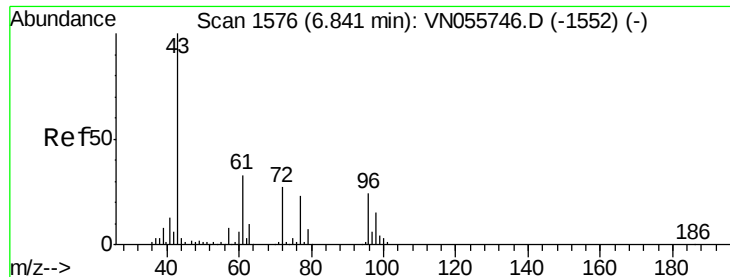
74 10.5 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

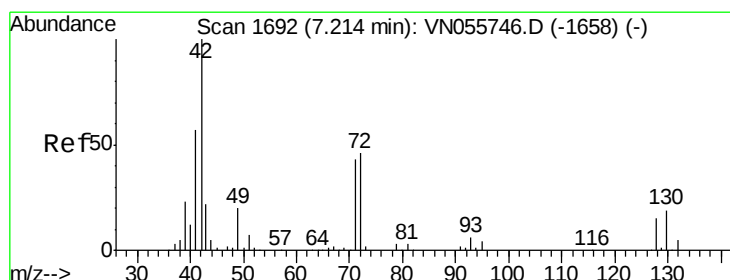
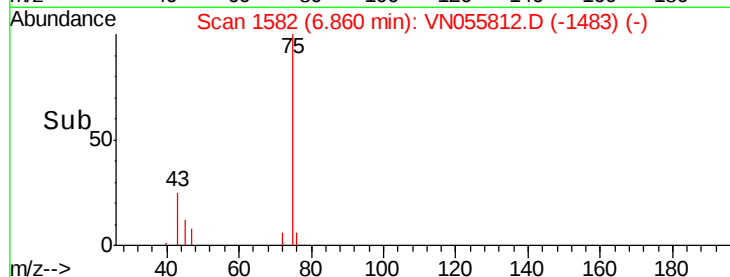
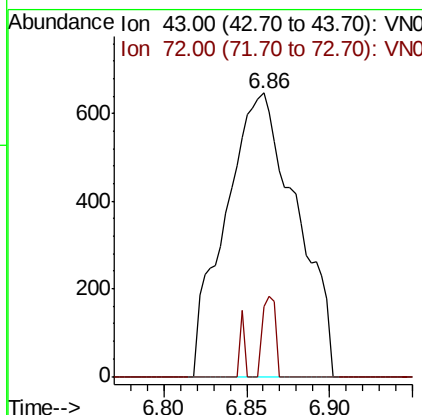
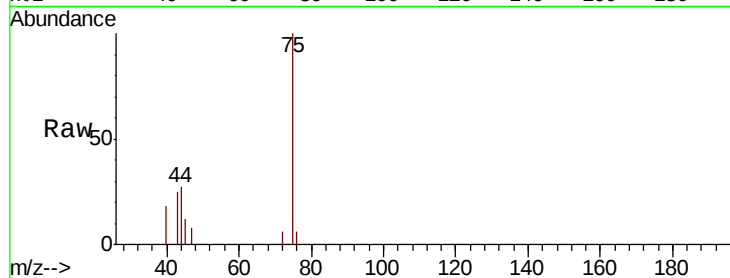




#25
2-Butanone
Concen: 0.726 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.02 min
Lab File: VN055812.D
Acq: 24 May 2019 22:49

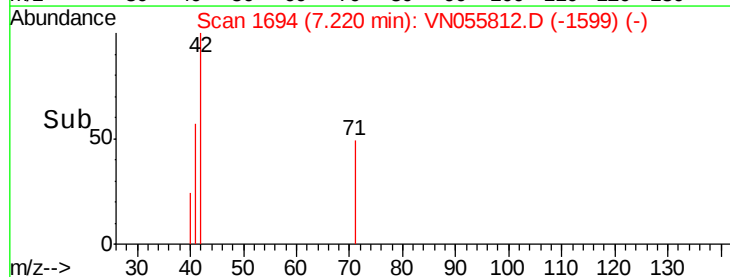
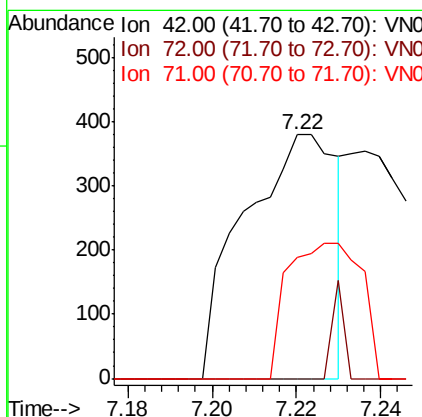
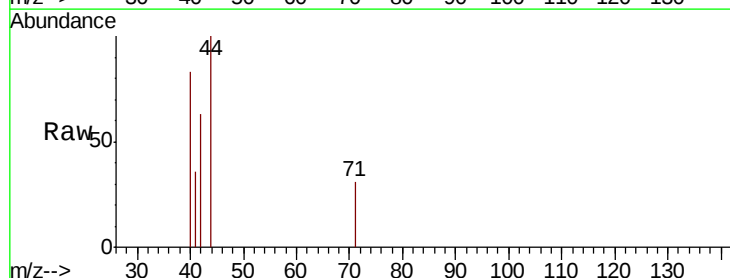
Instrument :
MSVOA_N
ClientSampled :
TB-20190522

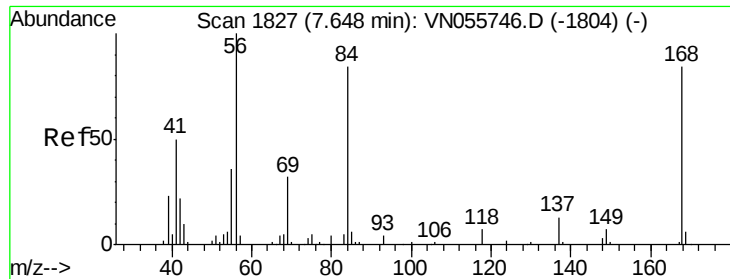
Tot Ion: 43 Resp: 1924
Ion Ratio Lower Upper
43 100
72 24.4 21.9 32.9



#29
Tetrahydrofuran
Concen: 0.345 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN055812.D
Acq: 24 May 2019 22:49

Tgt Ion: 42 Resp: 579
Ion Ratio Lower Upper
42 100
72 5.2 35.9 53.9#
71 43.9 34.0 51.0

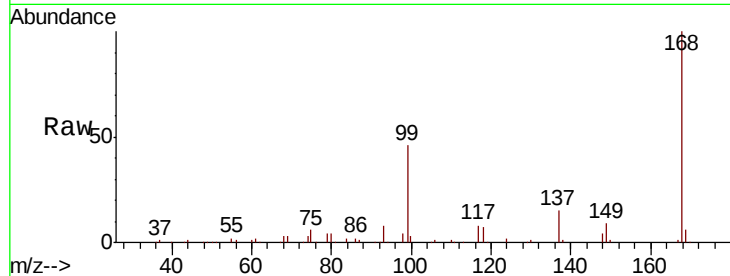




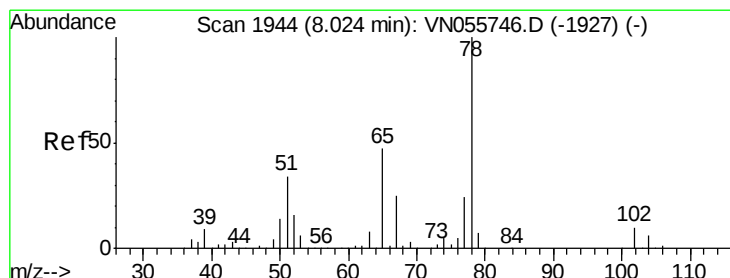
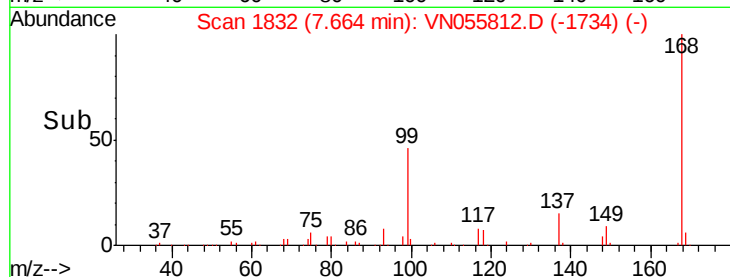
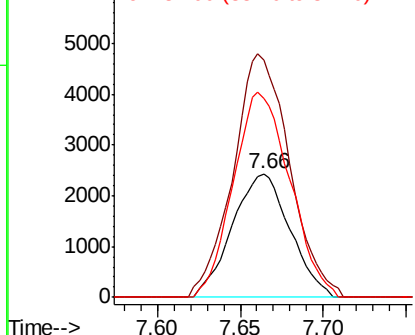
#31
Cyclohexane
Concen: 0.907 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN055812.D
Acq: 24 May 2019 22:49

Instrument :
MSVOA_N
ClientSampleId :
TB-20190522

Tot Ion: 56 Resp: 5876
Ion Ratio Lower Upper
56 100
69 192.3 25.6 38.4#
84 161.0 67.4 101.0#

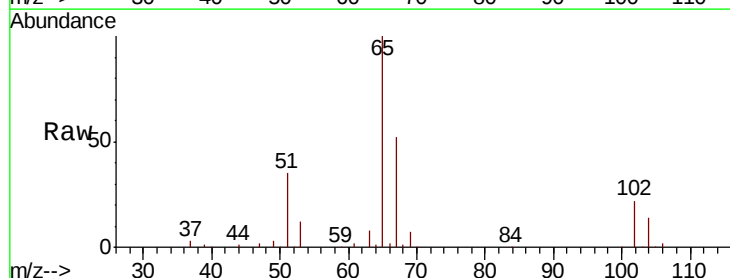


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

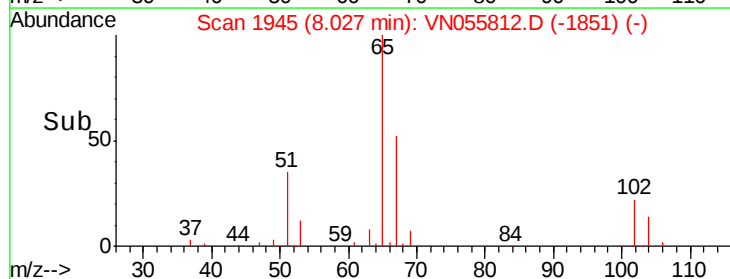
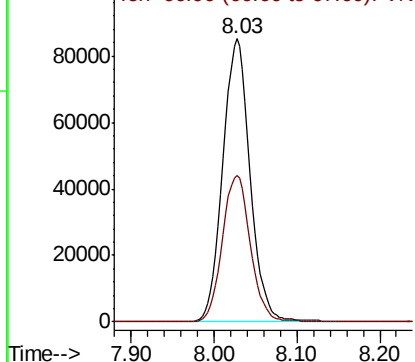


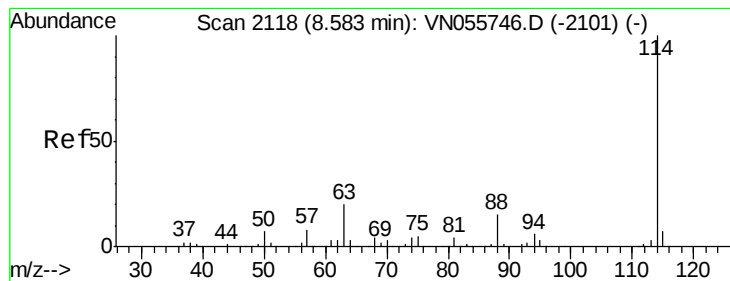
#33
1,2-Dichloroethane-d4
Concen: 45.184 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055812.D
Acq: 24 May 2019 22:49

Tgt Ion: 65 Resp: 195108
Ion Ratio Lower Upper
65 100
67 53.1 0.0 109.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN055812.D

Acq: 24 May 2019 22:49

Instrument :

MSVOA_N

ClientSampleId :

TB-20190522

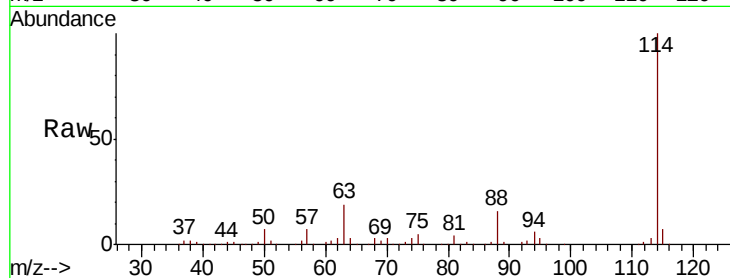
Tot Ion:114 Resp: 591821

Ion Ratio Lower Upper

114 100

63 18.5 0.0 39.2

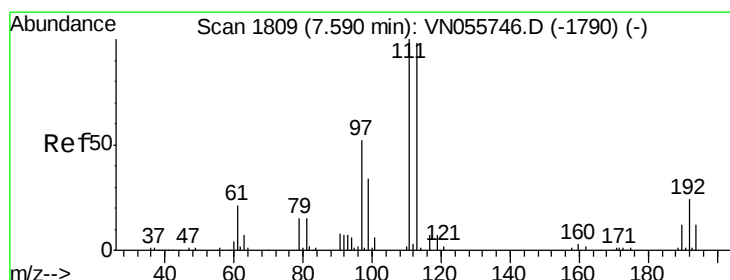
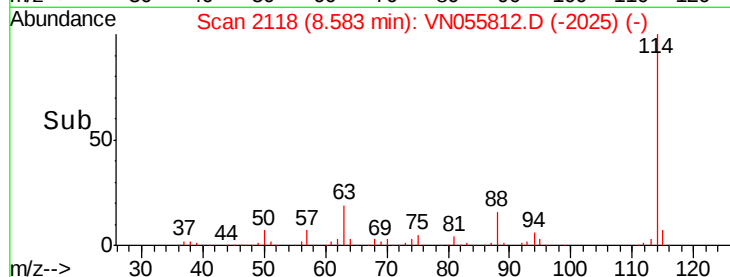
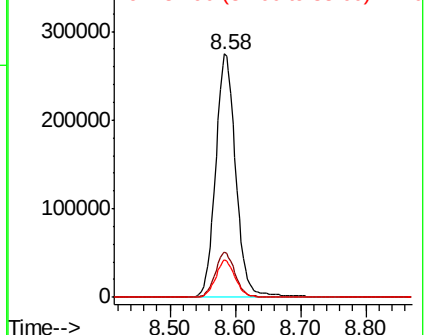
88 15.5 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 46.908 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055812.D

Acq: 24 May 2019 22:49

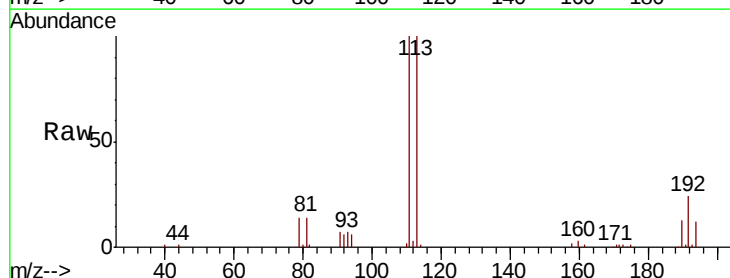
Tgt Ion:113 Resp: 175515

Ion Ratio Lower Upper

113 100

111 101.6 81.9 122.9

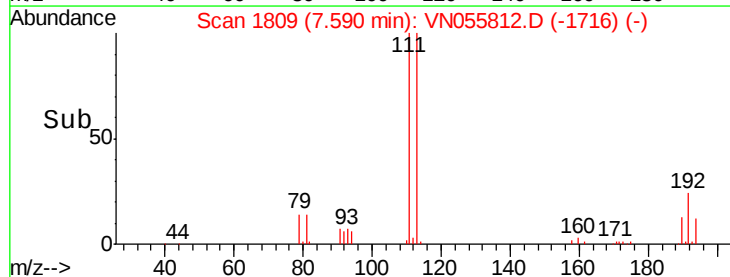
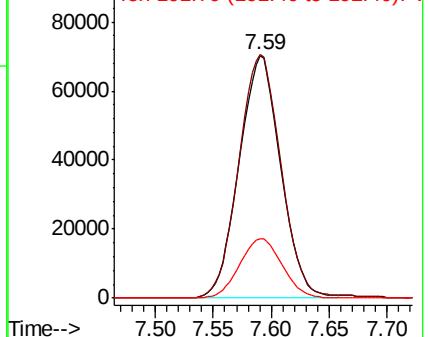
192 25.0 19.5 29.3

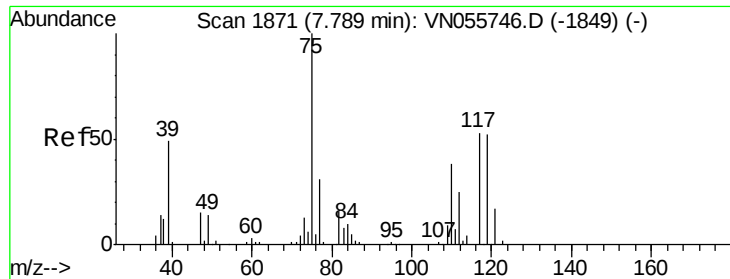


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

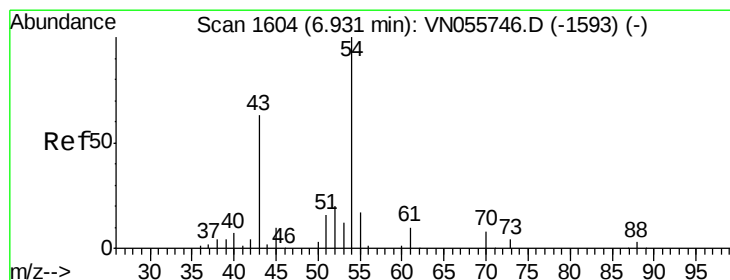
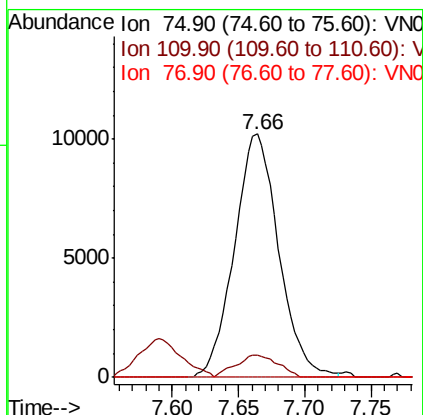
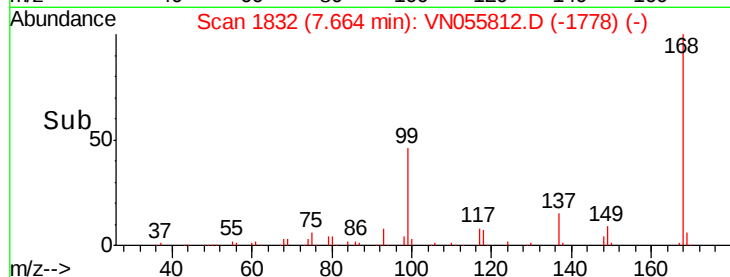
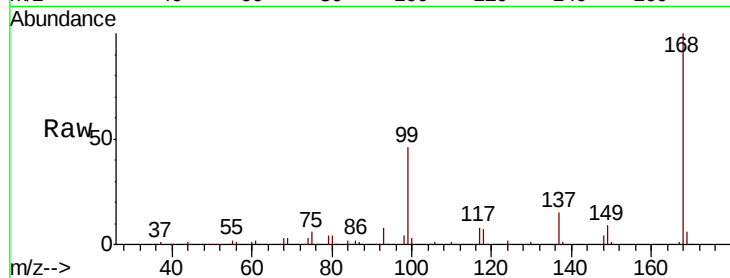




#36
 1,1-Dichloropropene
 Concen: 4.616 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055812.D
 Acq: 24 May 2019 22:49

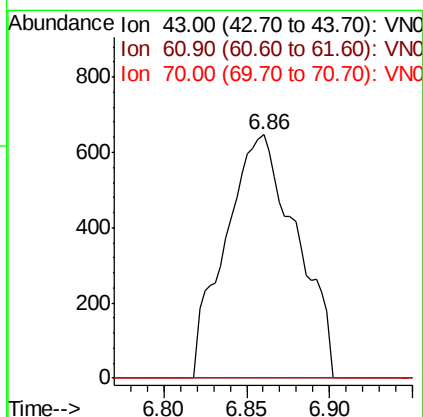
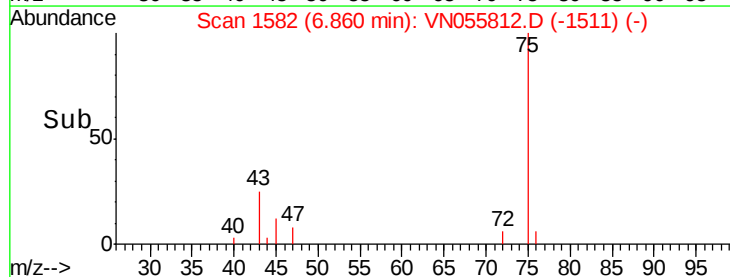
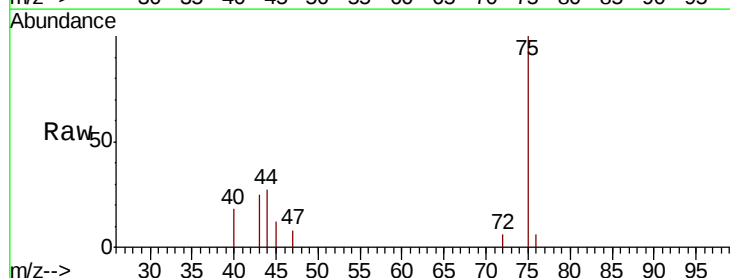
Instrument :
 MSVOA_N
 ClientSampled :
 TB-20190522

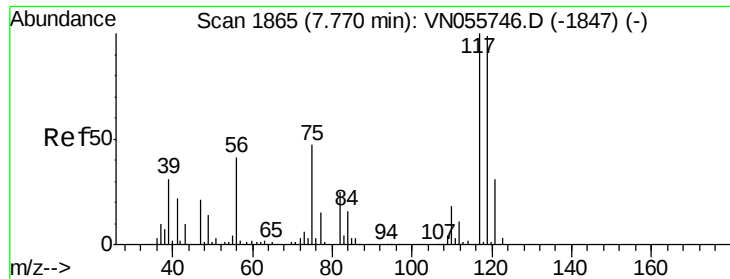
Tot Ion: 75 Resp: 23807
 Ion Ratio Lower Upper
 75 100
 110 8.7 19.0 57.0#
 77 0.0 25.1 37.7#



#37
 Ethyl Acetate
 Concen: 0.386 ug/l
 RT: 6.86 min Scan# 1582
 Delta R.T. -0.07 min
 Lab File: VN055812.D
 Acq: 24 May 2019 22:49

Tgt Ion: 43 Resp: 1924
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.2 18.2#
 70 0.0 8.9 13.3#





#38

Carbon Tetrachloride

Concen: 6.153 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN055812.D

Acq: 24 May 2019 22:49

Instrument :

MSVOA_N

ClientSampled :

TB-20190522

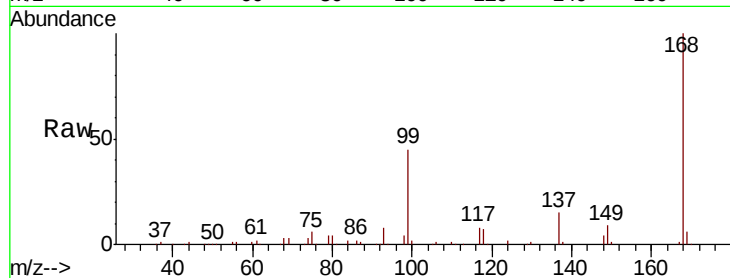
Tot Ion: 117 Resp: 33057

Ion Ratio Lower Upper

117 100

119 4.4 79.0 118.6#

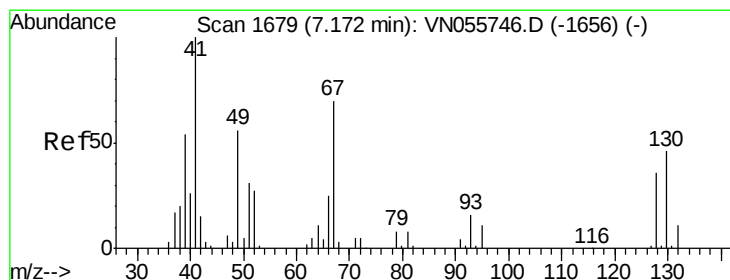
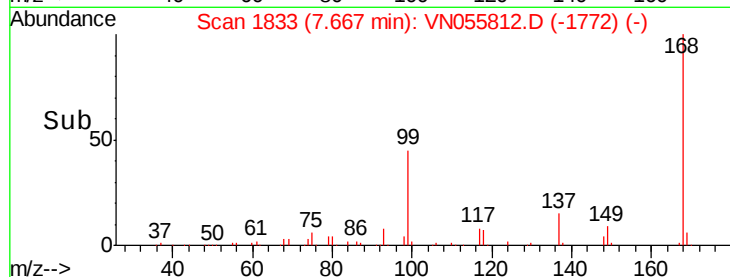
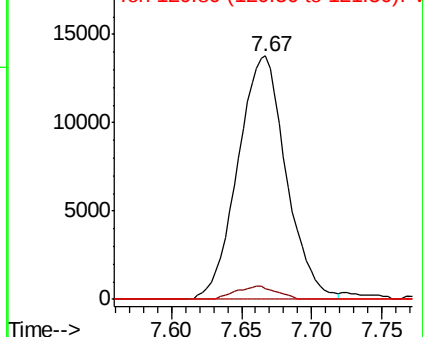
121 0.0 24.7 37.1#



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



#41

Methacrylonitrile

Concen: 0.248 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.06 min

Lab File: VN055812.D

Acq: 24 May 2019 22:49

Tgt Ion: 41 Resp: 625

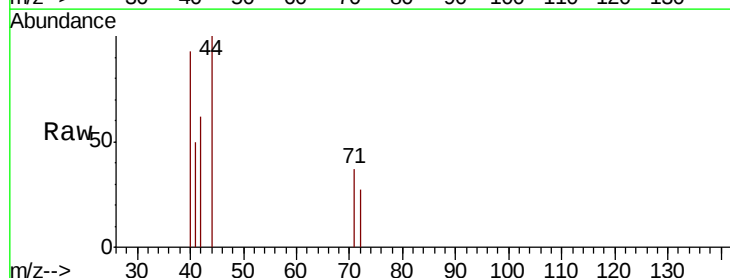
Ion Ratio Lower Upper

41 100

39 0.0 45.6 68.4#

67 0.0 67.7 101.5#

52 0.0 26.6 40.0#

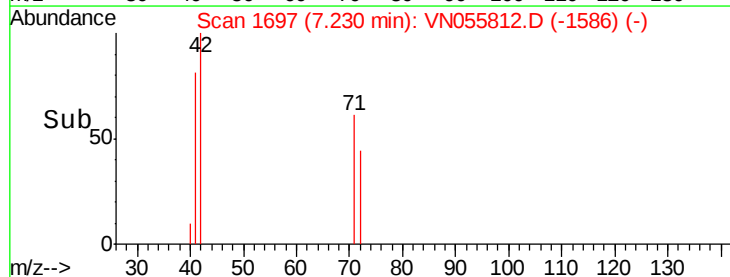
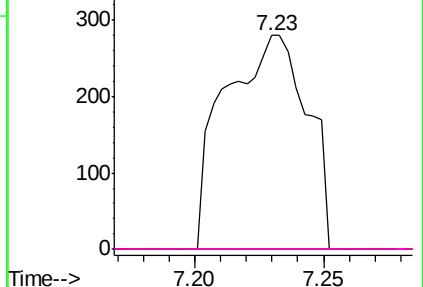


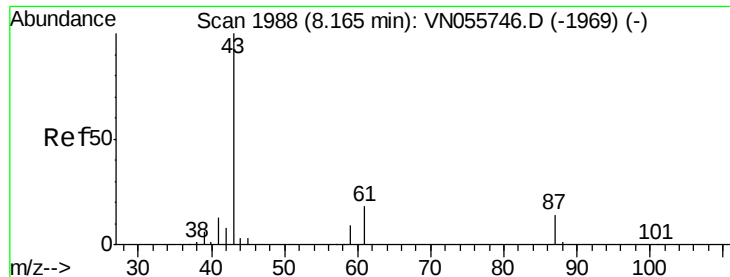
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 1.053 ug/l

RT: 8.32 min Scan# 2037

Delta R.T. 0.16 min

Lab File: VN055812.D

Acq: 24 May 2019 22:49

Instrument :

MSVOA_N

ClientSampleId :

TB-20190522

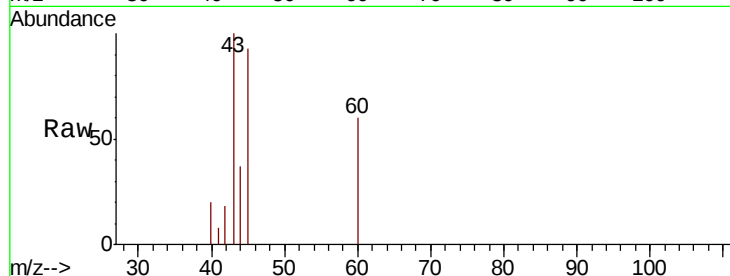
Tot Ion: 43 Resp: 8817

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

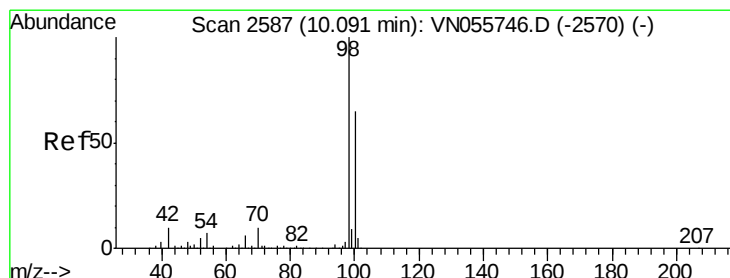
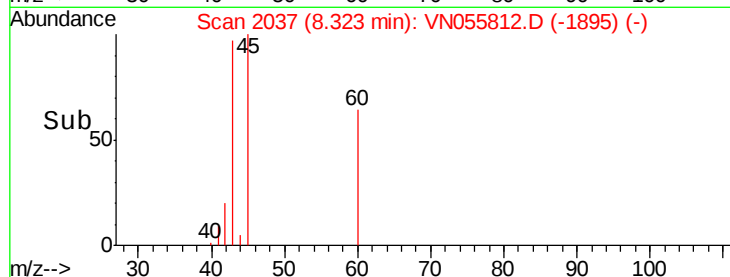
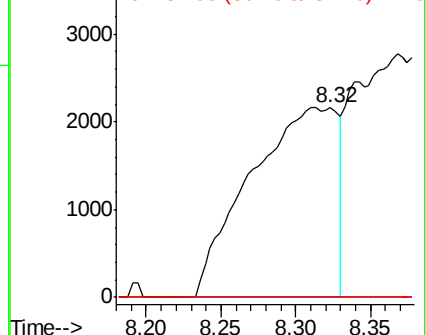
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 48.475 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055812.D

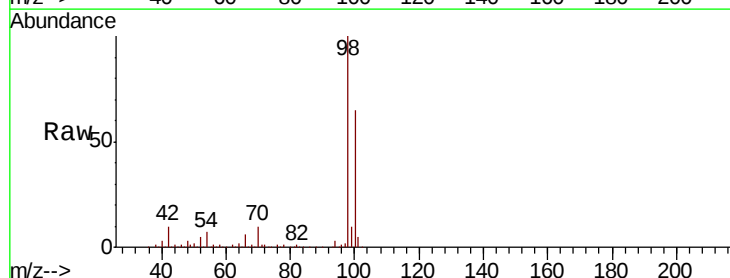
Acq: 24 May 2019 22:49

Tgt Ion: 98 Resp: 695754

Ion Ratio Lower Upper

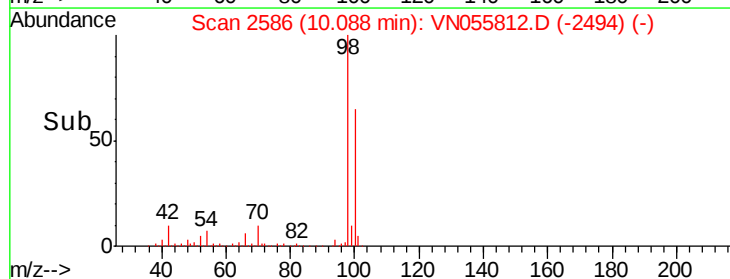
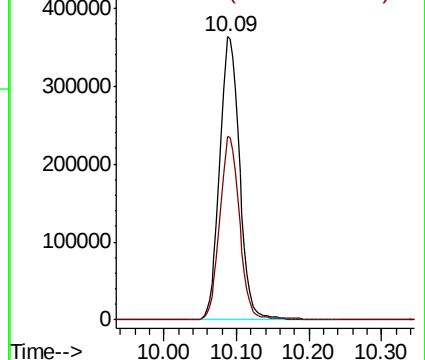
98 100

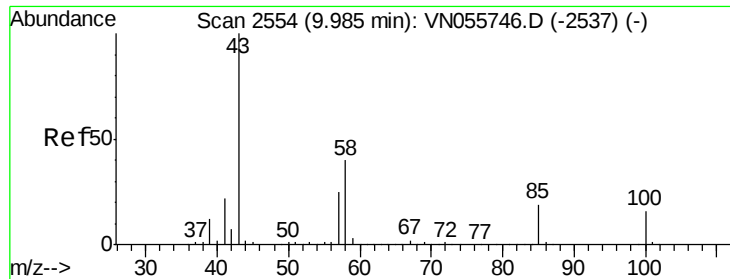
100 64.3 51.9 77.9



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: 0.421 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055812.D

Acq: 24 May 2019 22:49

Instrument :

MSVOA_N

ClientSampled :

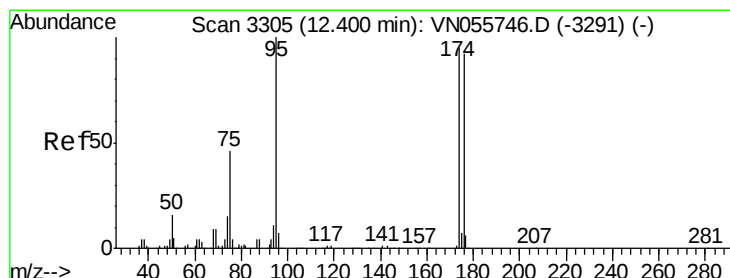
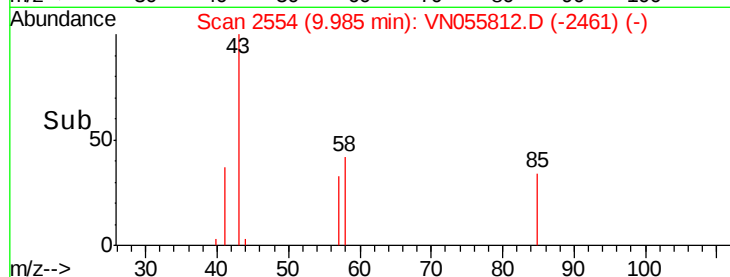
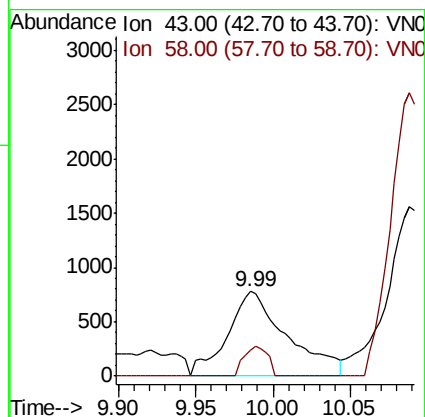
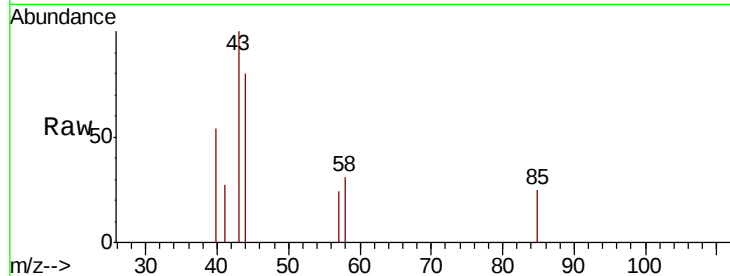
TB-20190522

Tot Ion: 43 Resp: 2083

Ion Ratio Lower Upper

43 100

58 14.1 32.1 48.1#



#62

4-Bromofluorobenzene

Concen: 45.687 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055812.D

Acq: 24 May 2019 22:49

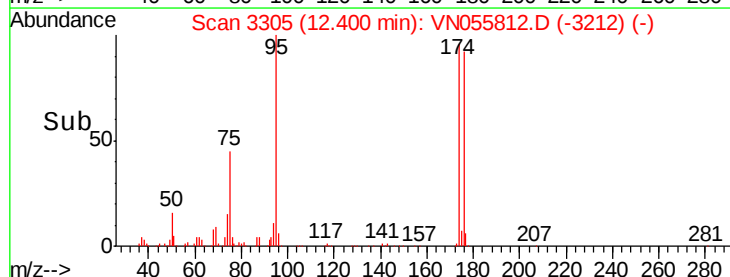
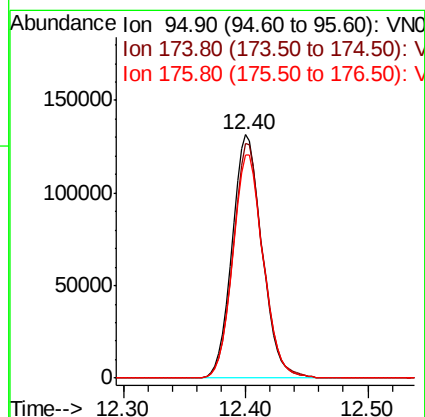
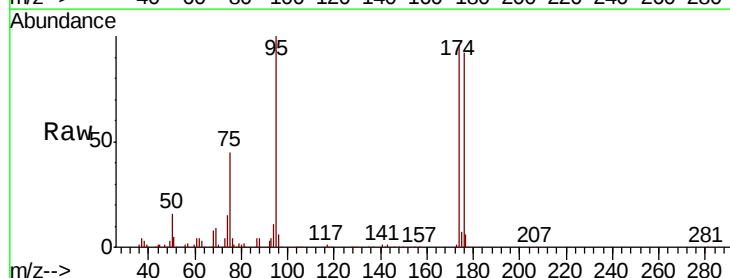
Tgt Ion: 95 Resp: 224846

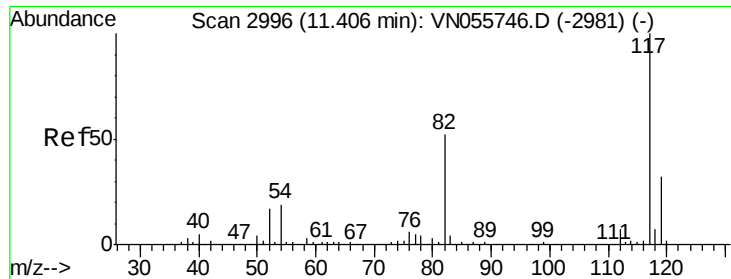
Ion Ratio Lower Upper

95 100

174 96.0 0.0 191.0

176 93.3 0.0 185.2

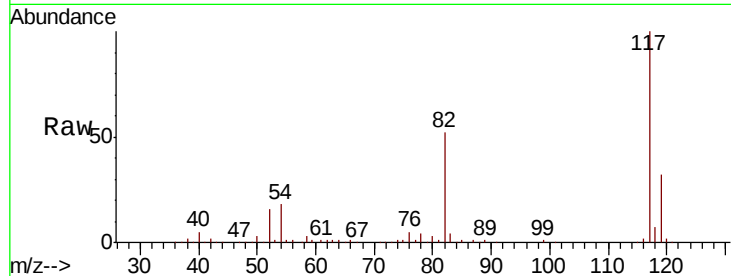




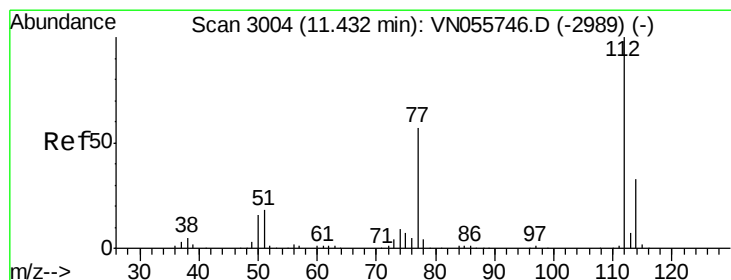
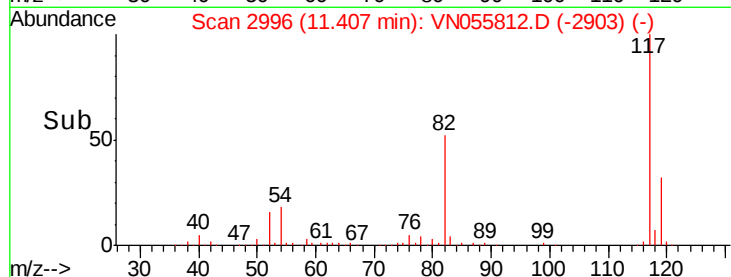
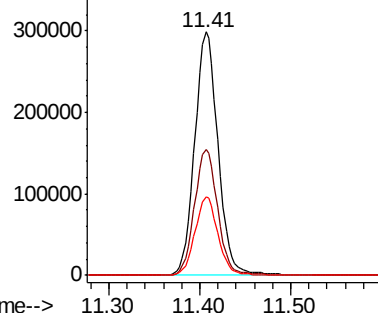
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055812.D
Acq: 24 May 2019 22:49

Instrument :
MSVOA_N
ClientSampleId :
TB-20190522

Tot Ion:117 Resp: 532200
Ion Ratio Lower Upper
117 100
82 51.9 41.8 62.8
119 32.2 25.4 38.0

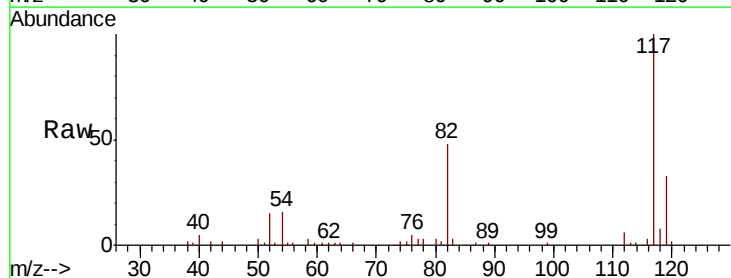


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

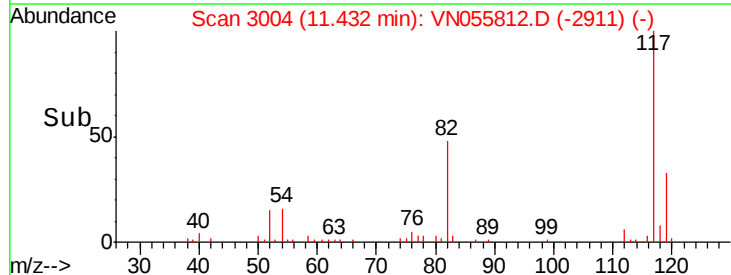
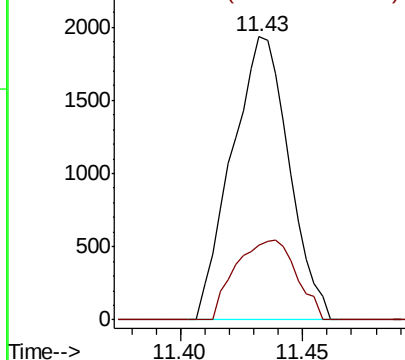


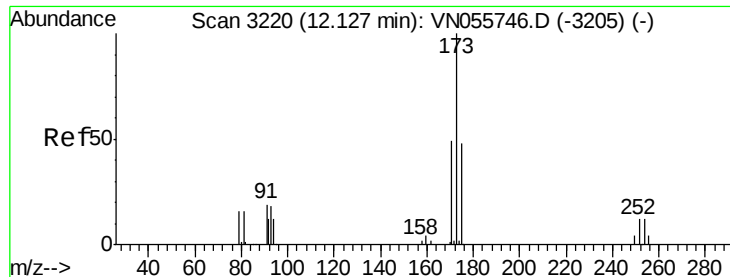
#65
Chlorobenzene
Concen: 0.295 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055812.D
Acq: 24 May 2019 22:49

Tgt Ion:112 Resp: 3144
Ion Ratio Lower Upper
112 100
114 26.6 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: 0.402 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN055812.D

Acq: 24 May 2019 22:49

Instrument :

MSVOA_N

ClientSampleId :

TB-20190522

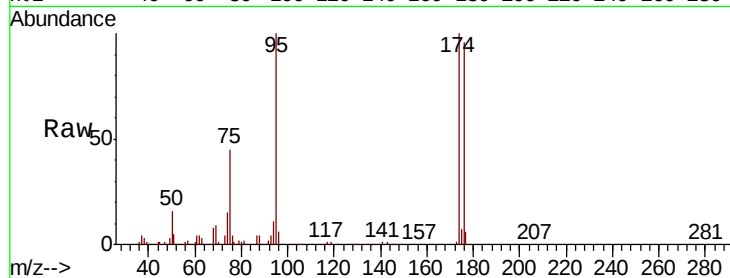
Tot Ion:173 Resp: 1456

Ion Ratio Lower Upper

173 100

175 934.3 24.3 72.8#

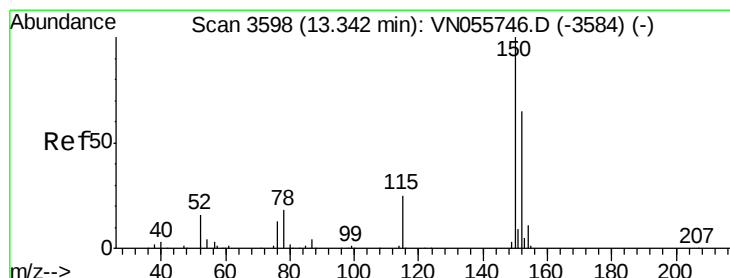
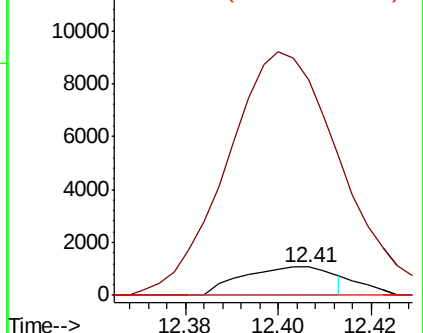
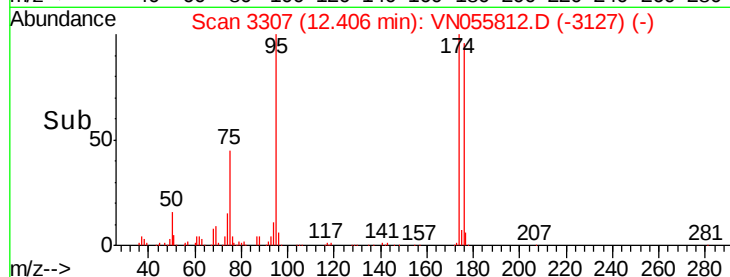
254 0.0 0.0 0.0



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: VN055812.D

Acq: 24 May 2019 22:49

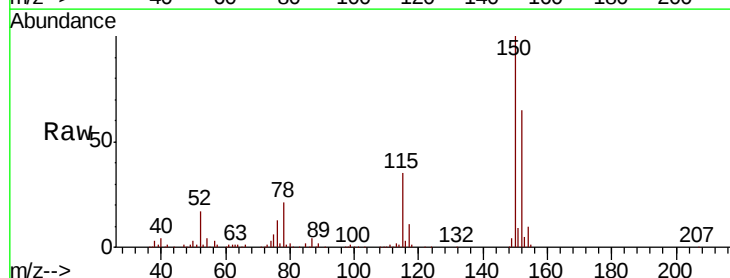
Tgt Ion:152 Resp: 184990

Ion Ratio Lower Upper

152 100

115 53.0 27.0 81.0

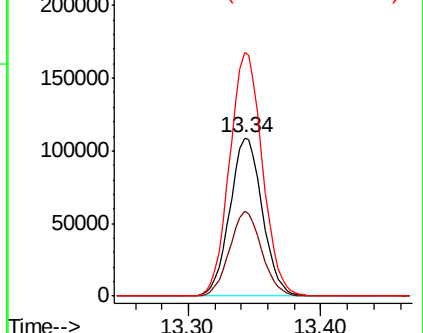
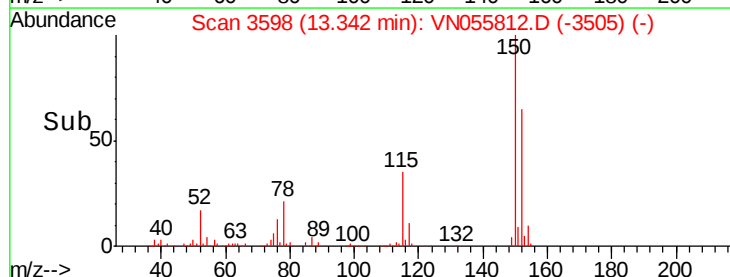
150 155.6 0.0 343.2

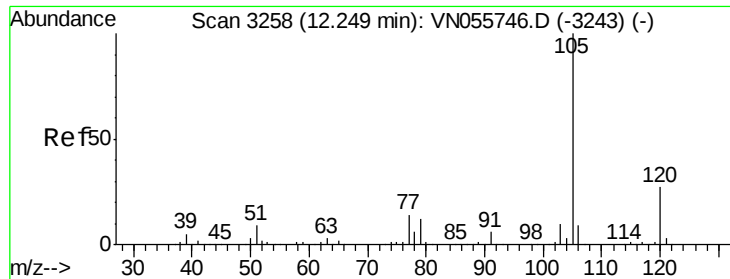


Abundance Ion 151.90 (151.60 to 152.60): V

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. 0.00 min

Lab File: VN055812.D

Acq: 24 May 2019 22:49

Instrument :

MSVOA_N

ClientSampleId :

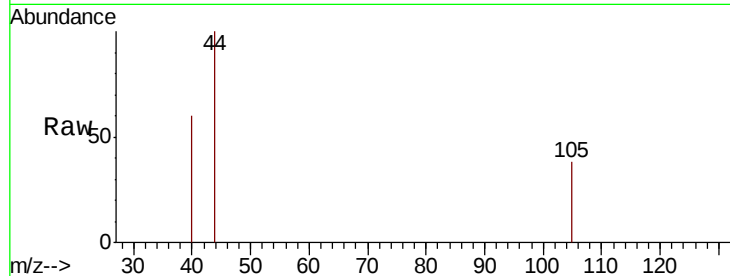
TB-20190522

Tot Ion:105 Resp: 291

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

250

200

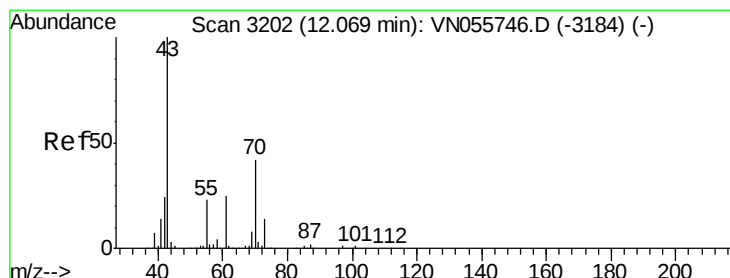
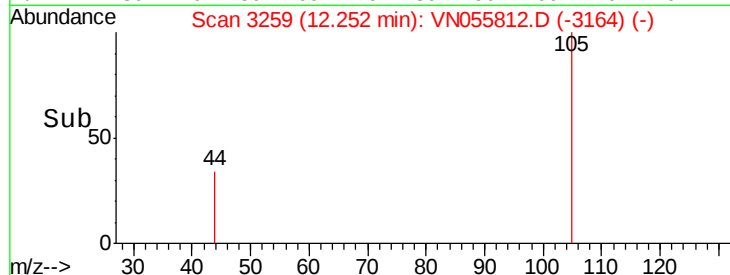
150

100

50

0

Time--> 12.22 12.24 12.26



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.06 min Scan# 3198

Delta R.T. -0.01 min

Lab File: VN055812.D

Acq: 24 May 2019 22:49

Tgt Ion: 43 Resp: 161

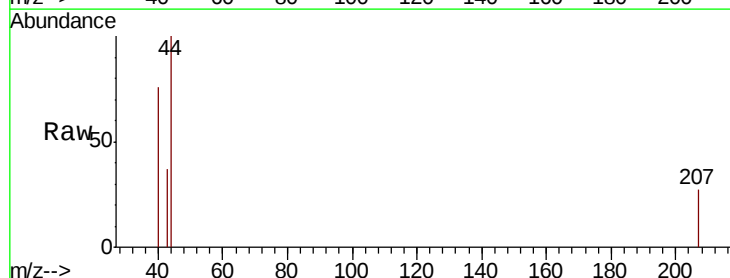
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

400

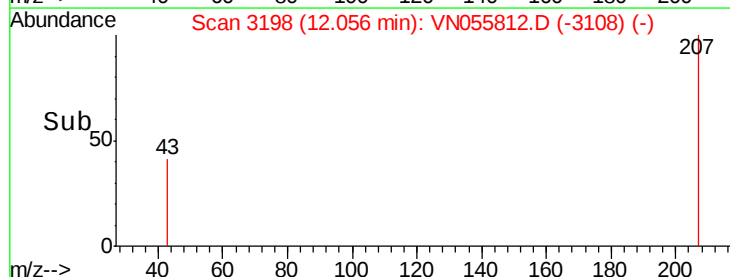
300

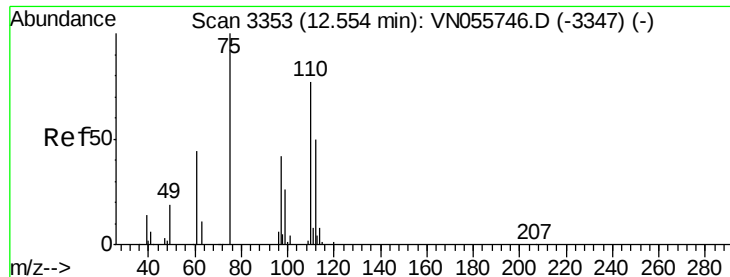
200

100

0

Time--> 12.04 12.05 12.06





#76

1,2,3-Trichloropropane

Concen: 30.717 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055812.D

Acq: 24 May 2019 22:49

Instrument :

MSVOA_N

ClientSampleId :

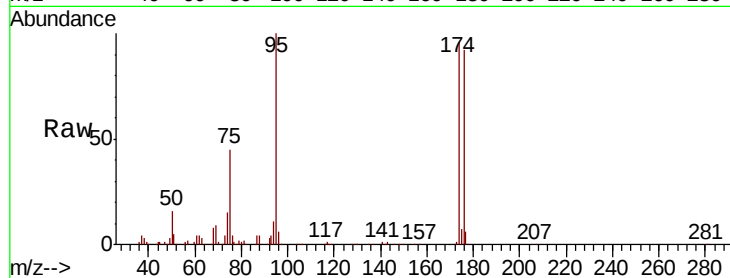
TB-20190522

Tot Ion: 75 Resp: 101713

Ion Ratio Lower Upper

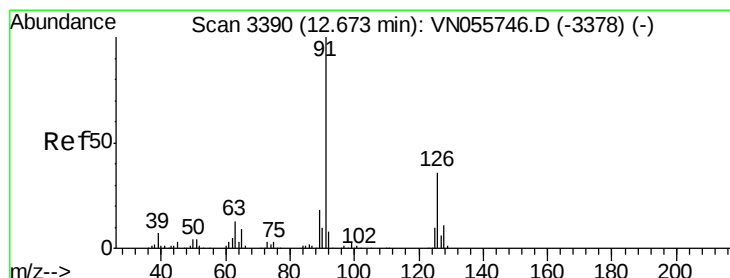
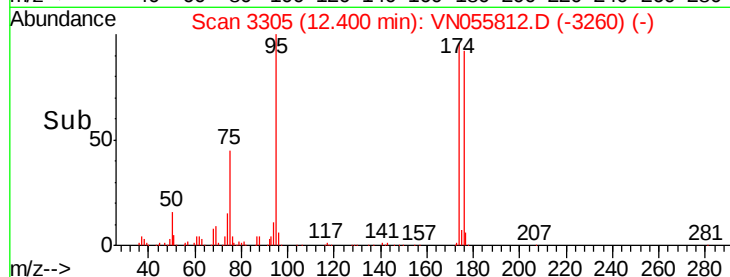
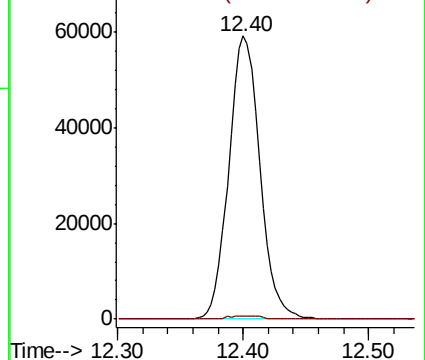
75 100

77 1.3 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: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055812.D

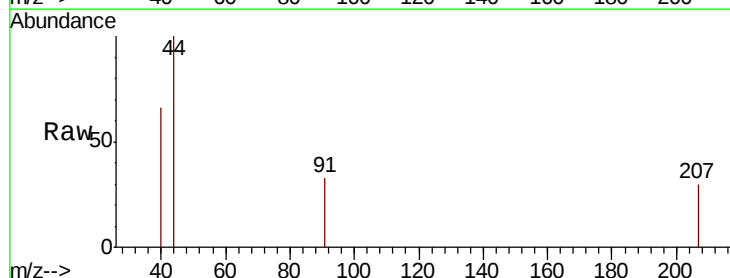
Acq: 24 May 2019 22:49

Tgt Ion: 91 Resp: 192

Ion Ratio Lower Upper

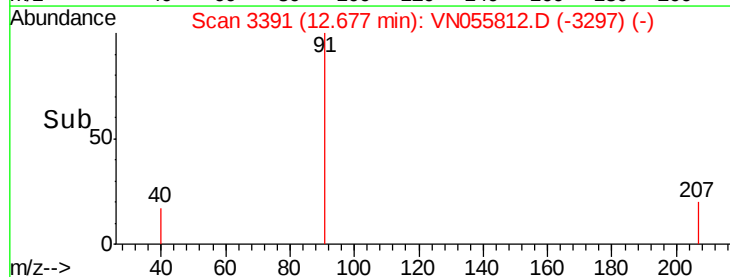
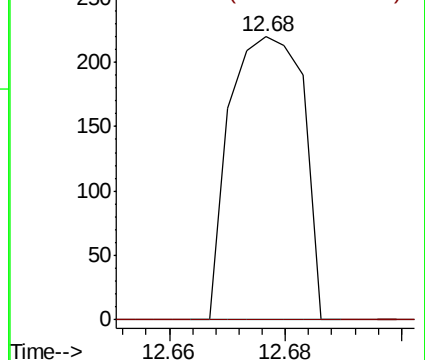
91 100

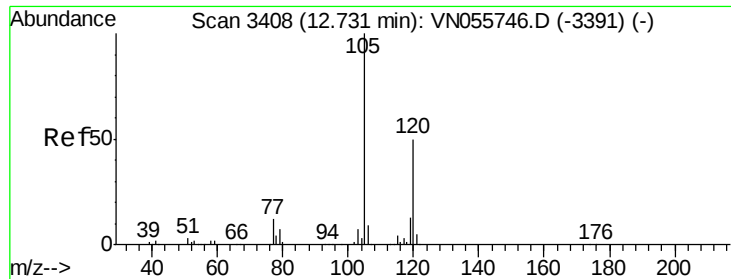
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

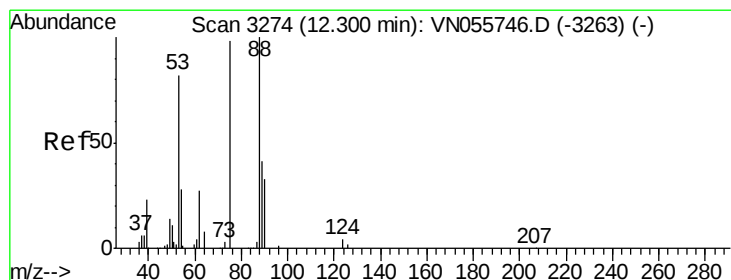
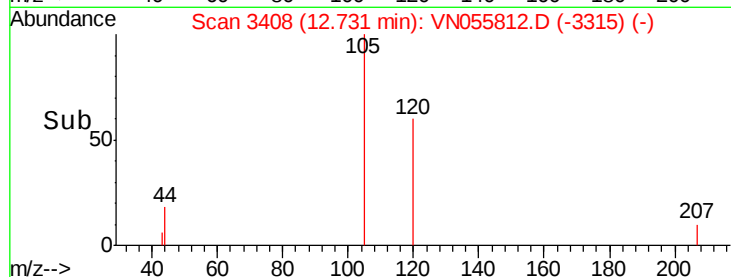
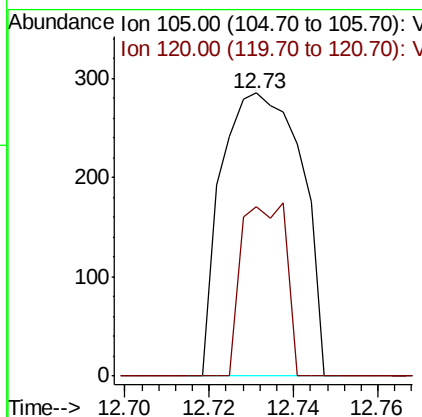
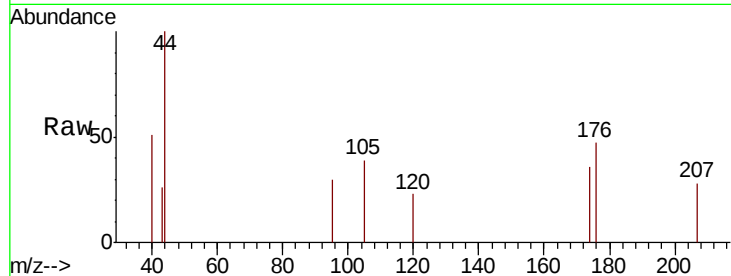




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN055812.D
 Acq: 24 May 2019 22:49

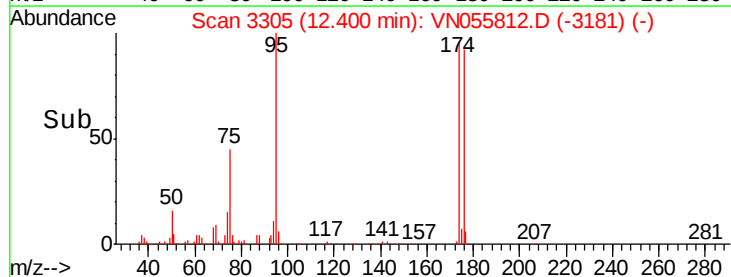
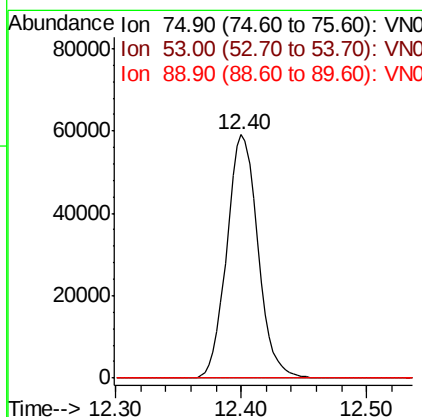
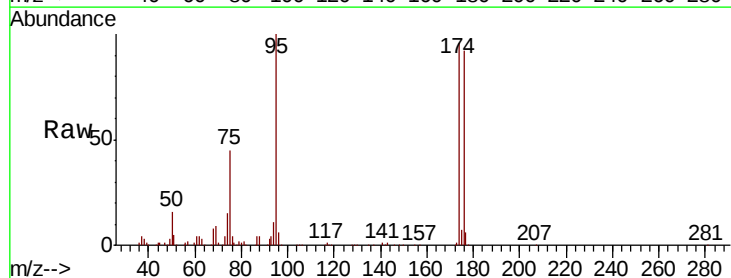
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20190522

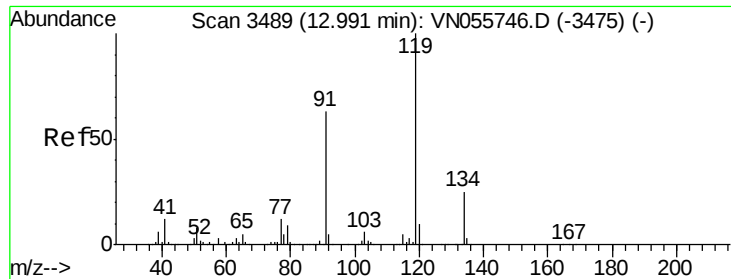
Tot Ion: 105 Resp: 375
 Ion Ratio Lower Upper
 105 100
 120 34.1 24.7 74.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.979 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055812.D
 Acq: 24 May 2019 22:49

Tgt Ion: 75 Resp: 101713
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.1 102.1#
 89 0.0 36.9 55.3#

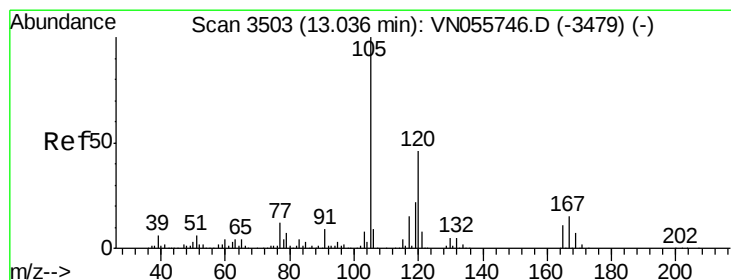
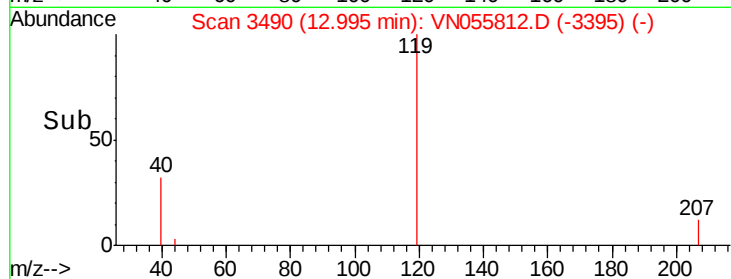
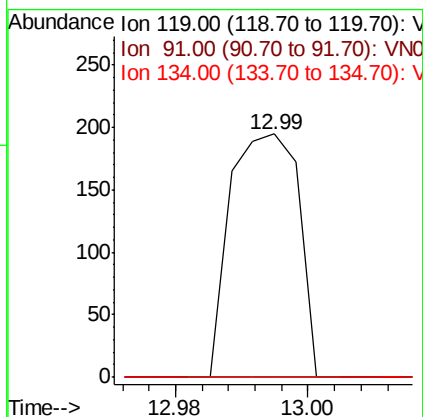
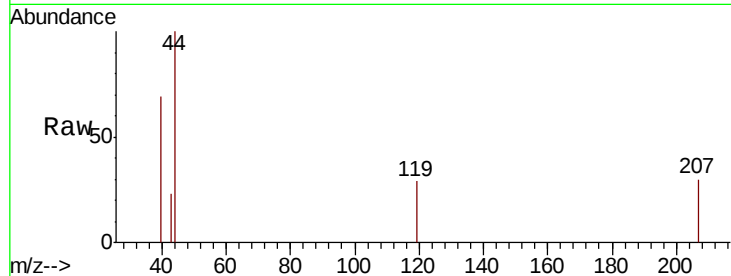




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN055812.D
 Acq: 24 May 2019 22:49

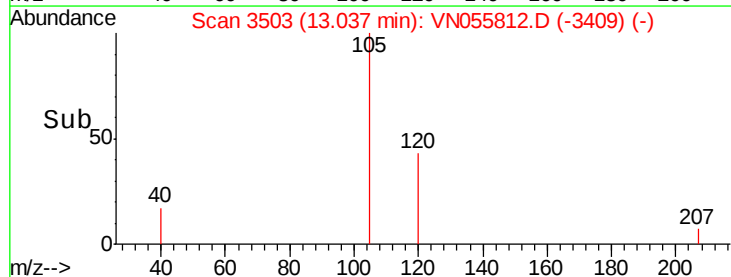
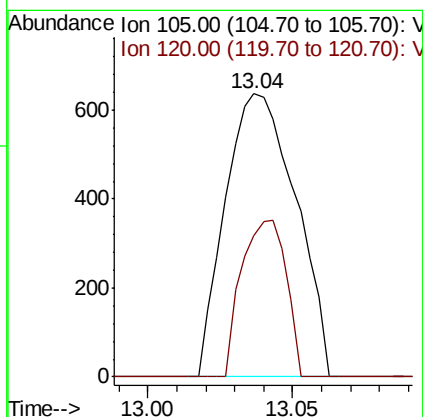
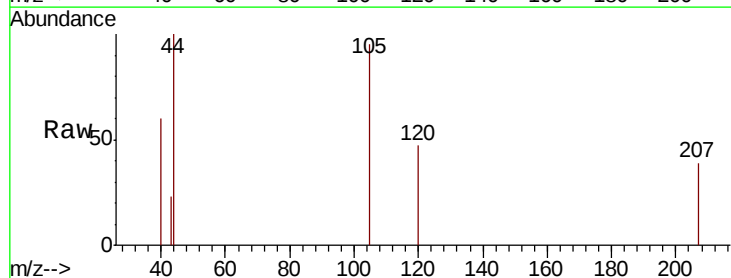
Instrument :
 MSVOA_N
 ClientSampled :
 TB-20190522

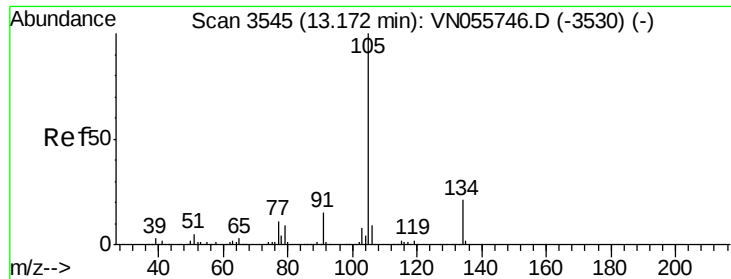
Tot Ion	Ratio	Lower	Upper
119	100		
91	0.0	30.9	92.8#
134	0.0	13.3	39.8#



#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.00 min
 Lab File: VN055812.D
 Acq: 24 May 2019 22:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	35.0	23.0	69.0

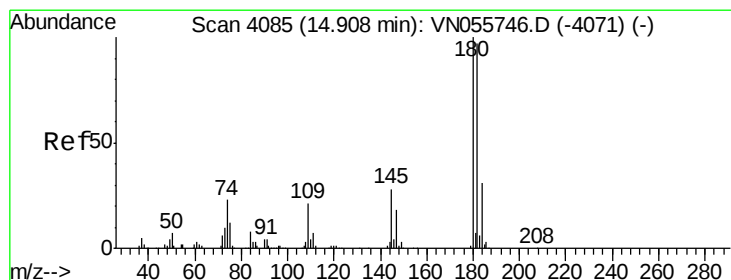
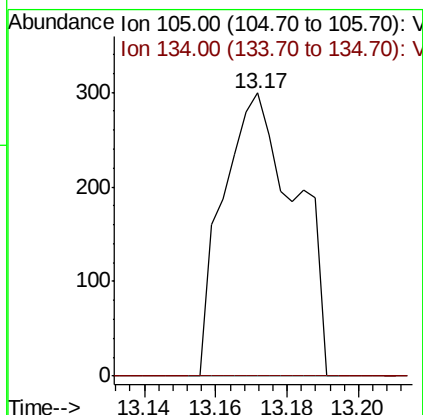
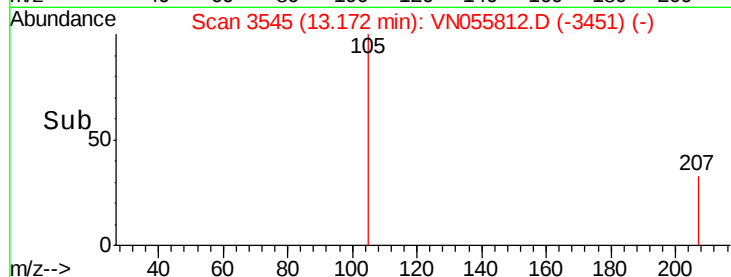
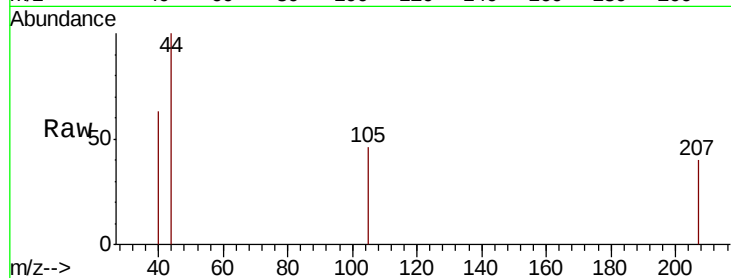




#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055812.D
 Acq: 24 May 2019 22:49

Instrument :
 MSVOA_N
 ClientSampled :
 TB-20190522

Tot Ion:105 Resp: 421
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.741 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN055812.D
 Acq: 24 May 2019 22:49

Tgt Ion:180 Resp: 403
 Ion Ratio Lower Upper
 180 100
 182 65.5 48.3 144.9
 145 0.0 14.0 41.9#

