

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053119\
 Data File : VN055922.D
 Acq On : 31 May 2019 16:23
 Operator : JC/SP
 Sample : K3129-23
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 Z1-TB03-190528

Quant Time: Jun 01 02:02:25 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	331546	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	504066	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	457733	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	152091	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	186442	54.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.90%	
35) Dibromofluoromethane	7.59	113	160014	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	
50) Toluene-d8	10.09	98	639586	52.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.64%	
62) 4-Bromofluorobenzene	12.40	95	204371	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	

Target Compounds

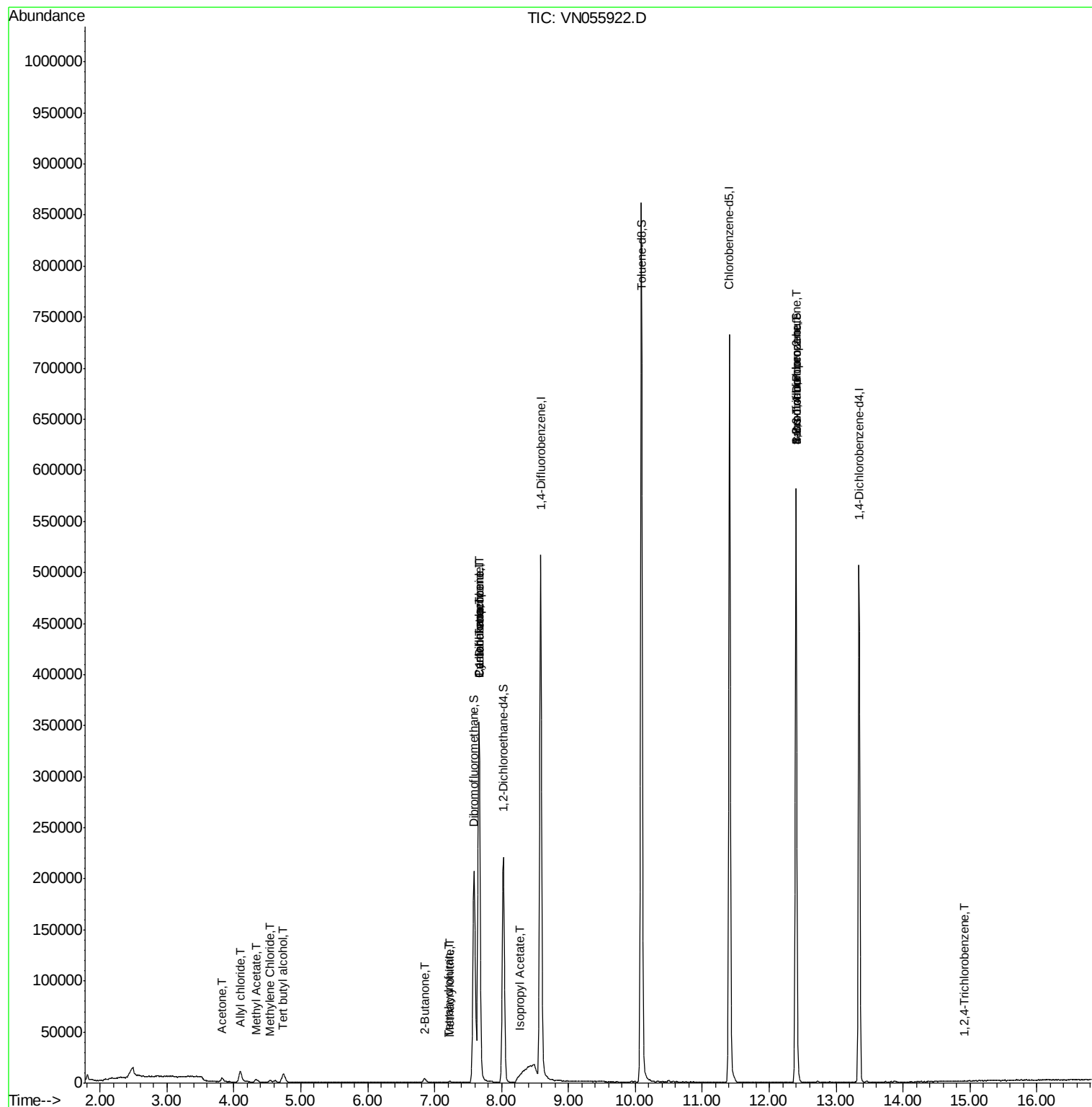
						Qvalue
11) Tert butyl alcohol	4.73	59	7888	12.057	ug/l #	74
14) Allyl chloride	4.09	41	1715	0.355	ug/l #	62
16) Acetone	3.82	43	6954	4.620	ug/l	100
18) Methyl Acetate	4.33	43	5509	0.550	ug/l #	85
20) Methylene Chloride	4.55	84	1292	0.396	ug/l	87
25) 2-Butanone	6.87	43	859	0.409	ug/l #	47
29) Tetrahydrofuran	7.21	42	351	0.264	ug/l #	55
31) Cyclohexane	7.66	56	4924	0.958	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	20370	4.637	ug/l #	48
38) Carbon Tetrachloride	7.66	117	28062	6.133	ug/l #	14
41) Methacrylonitrile	7.23	41	523	0.244	ug/l #	30
43) Isopropyl Acetate	8.27	43	5984	0.839	ug/l #	53
71) Bromoform	12.40	173	1355	0.435	ug/l #	1
74) N-amyl acetate	12.07	43	65	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	95268	35.462	ug/l #	100
79) 2-Chlorotoluene	12.40	91	506	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	95268	84.279	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	30	3.646	ug/l #	12

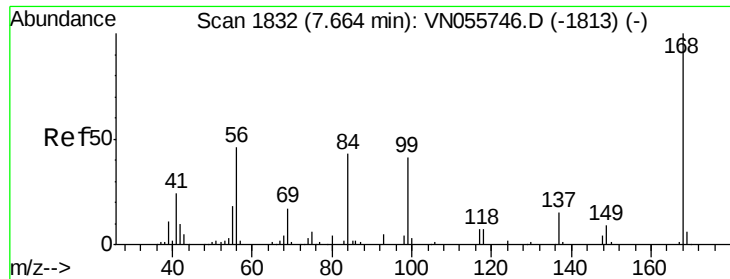
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055922.D

Acq: 31 May 2019 16:23

Instrument :

MSVOA_N

ClientSampleId :

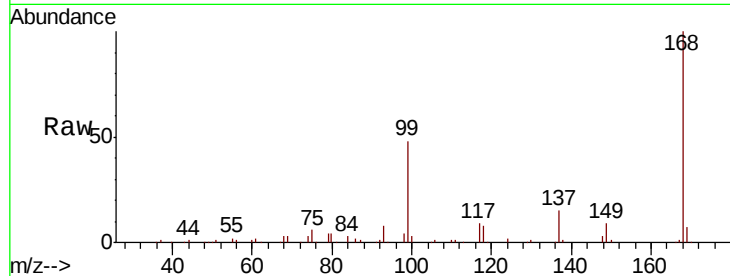
Z1-TB03-190528

Tot Ion:168 Resp: 331546

Ion Ratio Lower Upper

168 100

99 47.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

150000

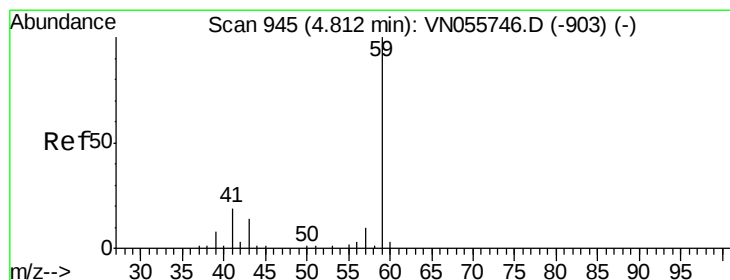
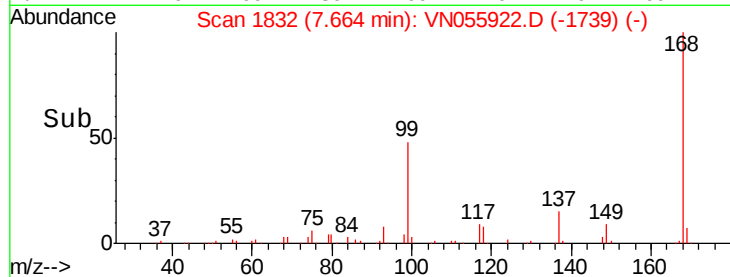
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 12.057 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.08 min

Lab File: VN055922.D

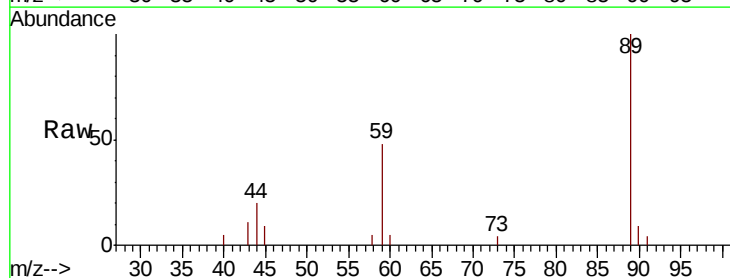
Acq: 31 May 2019 16:23

Tgt Ion: 59 Resp: 7888

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

2000

1500

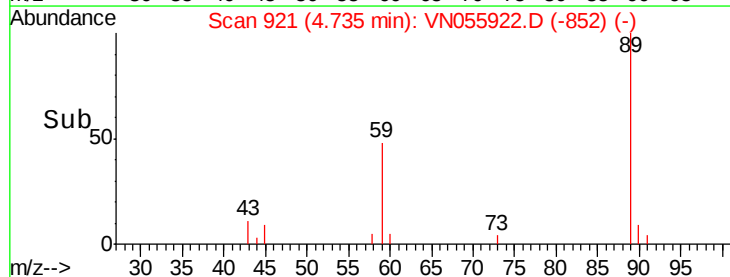
1000

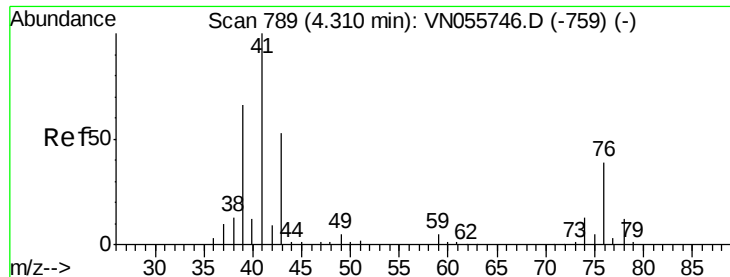
500

0

4.65 4.70 4.75 4.80

Time-->

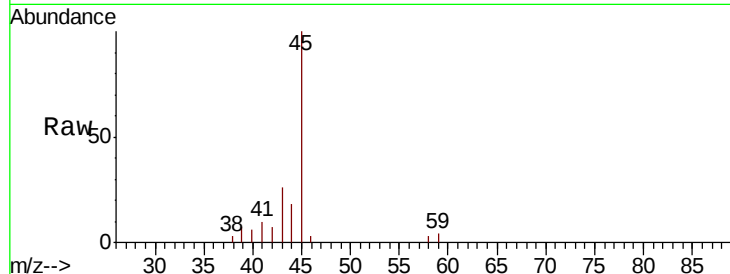




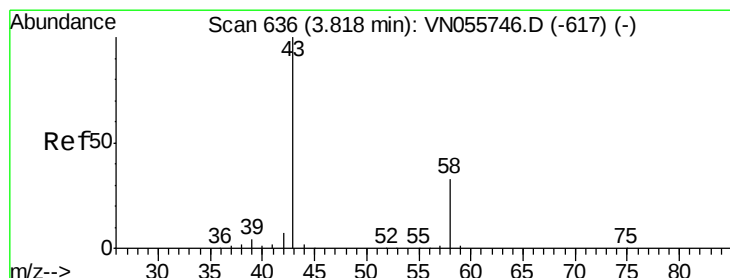
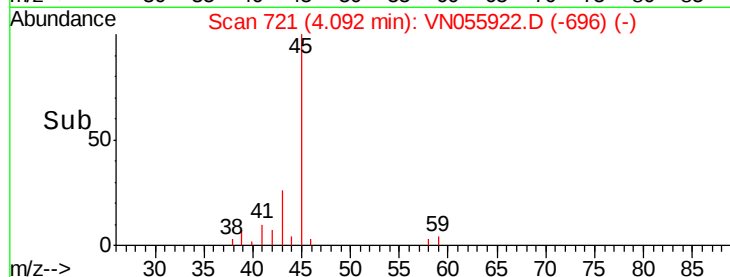
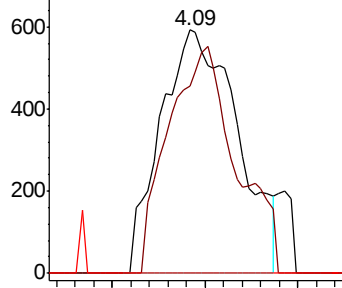
#14
Allvl chloride
Concen: 0.355 ug/l
RT: 4.09 min Scan# 721
Delta R.T. -0.22 min
Lab File: VN055922.D
Acq: 31 May 2019 16:23

Instrument :
MSVOA_N
ClientSampleId :
Z1-TB03-190528

Tot Ion: 41 Resp: 1715
Ion Ratio Lower Upper
41 100
39 81.9 50.0 75.0#
76 0.0 28.2 42.2#

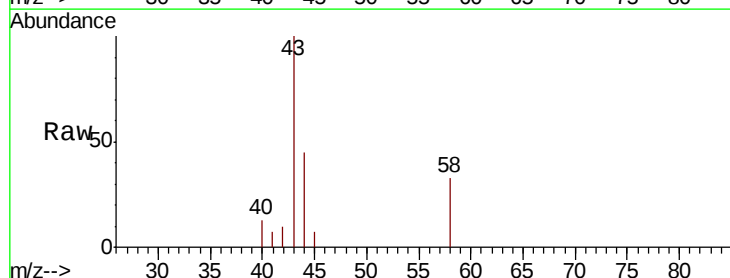


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO

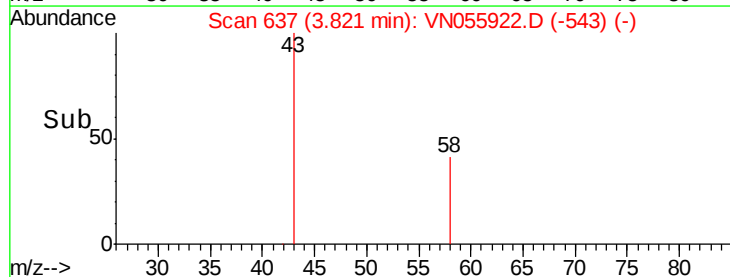
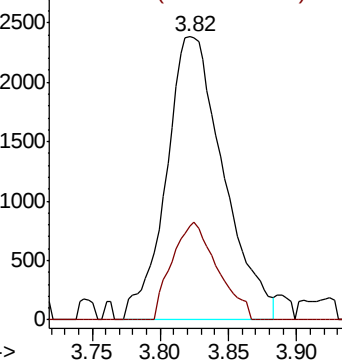


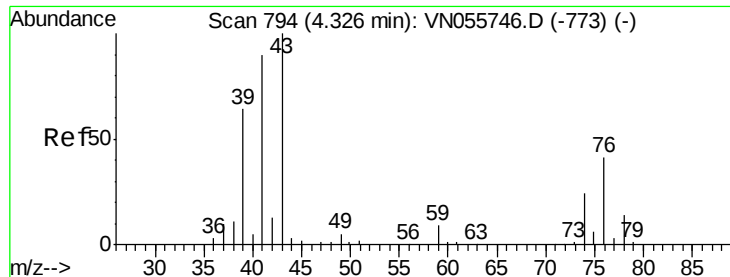
#16
Acetone
Concen: 4.620 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN055922.D
Acq: 31 May 2019 16:23

Tgt Ion: 43 Resp: 6954
Ion Ratio Lower Upper
43 100
58 33.4 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO

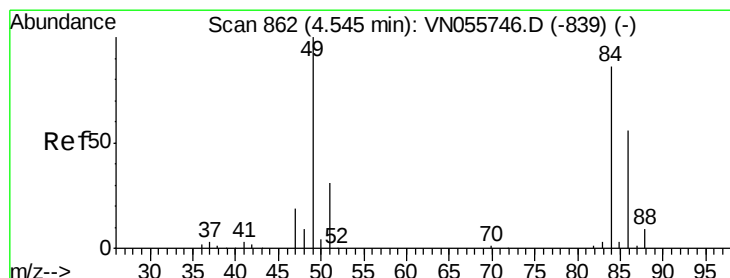
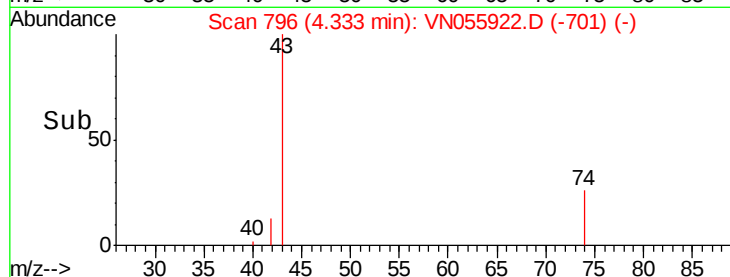
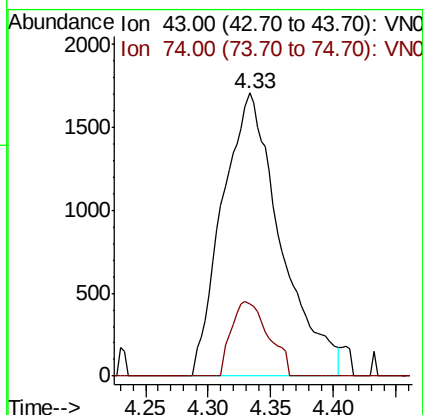
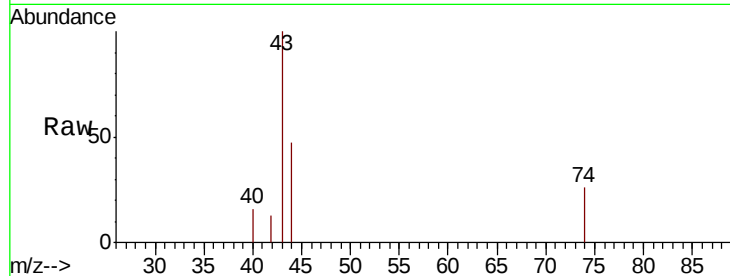




#18
Methyl Acetate
Concen: 0.550 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN055922.D
Acq: 31 May 2019 16:23

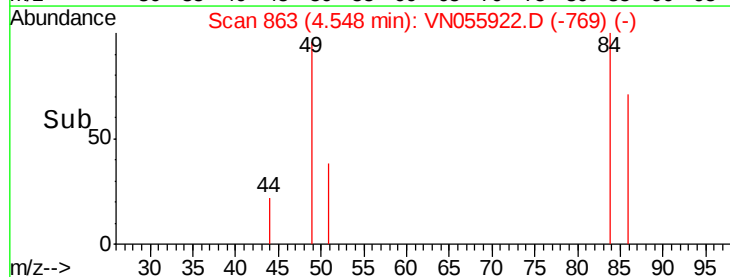
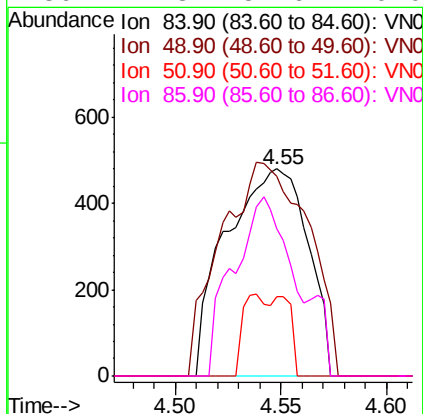
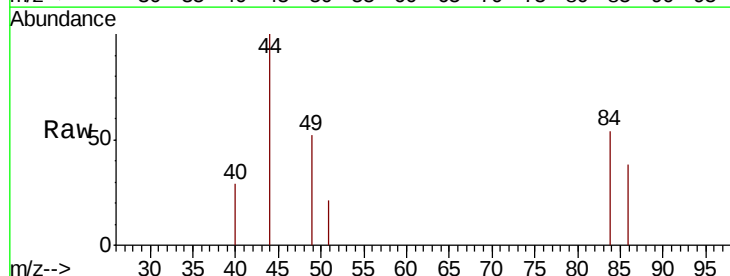
Instrument :
MSVOA_N
ClientSampleId :
Z1-TB03-190528

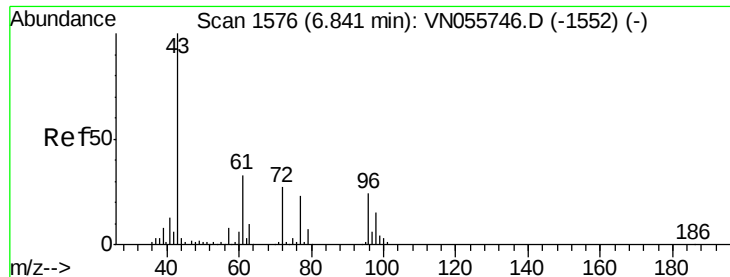
Tot Ion: 43 Resp: 5509
Ion Ratio Lower Upper
43 100
74 16.8 19.3 28.9#



#20
Methylene Chloride
Concen: 0.396 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN055922.D
Acq: 31 May 2019 16:23

Tgt Ion: 84 Resp: 1292
Ion Ratio Lower Upper
84 100
49 96.5 93.5 140.3
51 38.1 28.6 43.0
86 71.3 52.6 79.0





#25

2-Butanone

Concen: 0.409 ug/l

RT: 6.87 min Scan# 1584

Delta R.T. 0.03 min

Lab File: VN055922.D

Acq: 31 May 2019 16:23

Instrument :

MSVOA_N

ClientSampleId :

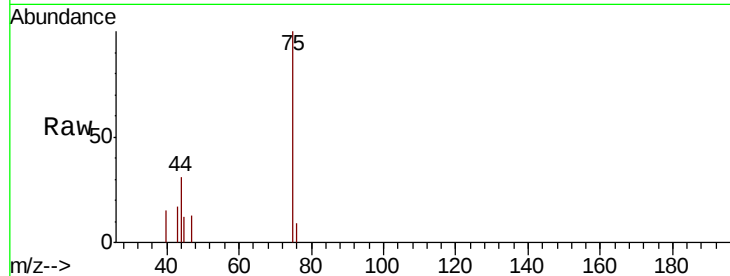
Z1-TB03-190528

Tot Ion: 43 Resp: 859

Ion Ratio Lower Upper

43 100

72 0.0 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

6.87

300

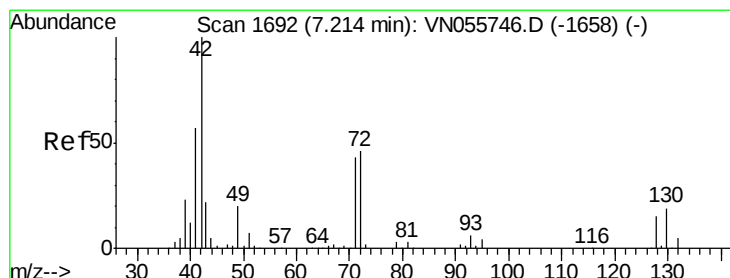
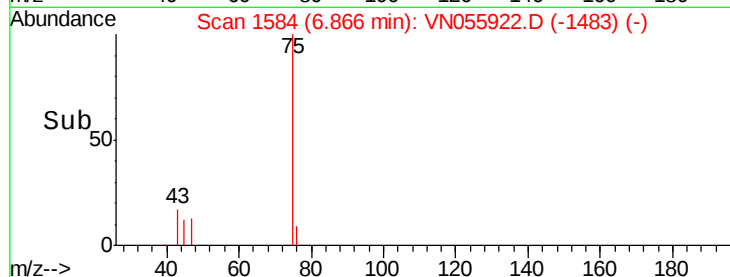
200

100

0

6.80 6.85 6.90

Time-->



#29

Tetrahydrofuran

Concen: 0.264 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. -0.00 min

Lab File: VN055922.D

Acq: 31 May 2019 16:23

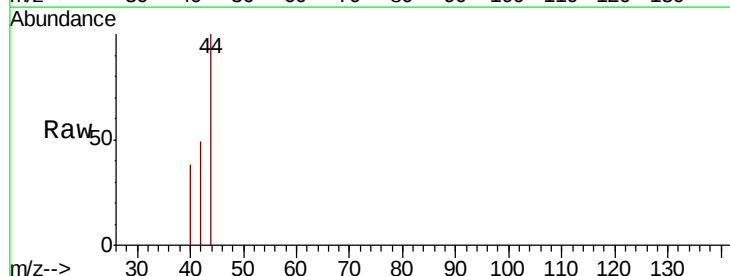
Tgt Ion: 42 Resp: 351

Ion Ratio Lower Upper

42 100

72 0.0 35.9 53.9#

71 54.7 34.0 51.0#



Abundance Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO

500

400

300

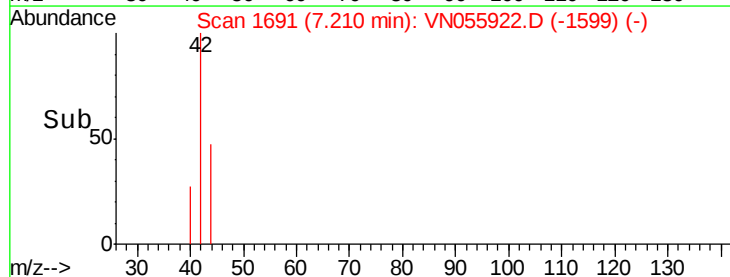
200

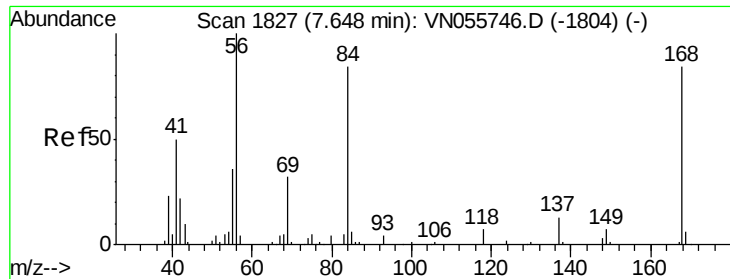
100

0

7.19 7.20 7.21 7.22

Time-->

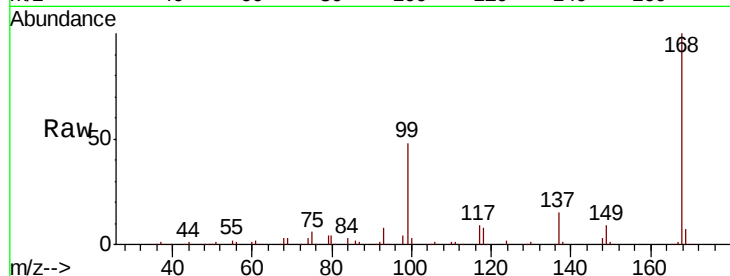




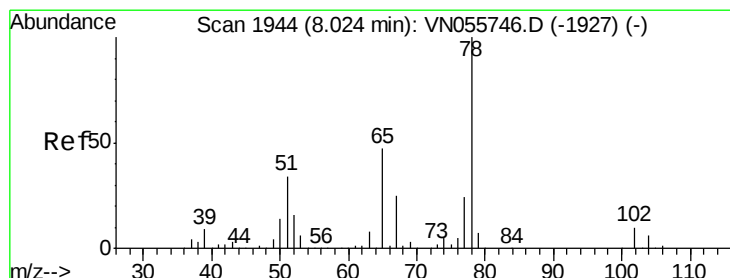
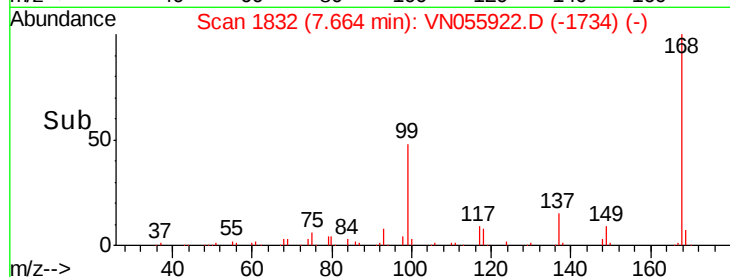
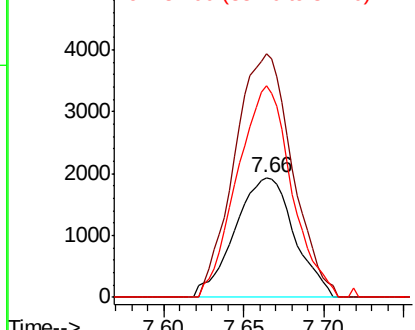
#31
Cyclohexane
Concen: 0.958 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN055922.D
Acq: 31 May 2019 16:23

Instrument :
MSVOA_N
ClientSampleId :
Z1-TB03-190528

Tot Ion: 56 Resp: 4924
Ion Ratio Lower Upper
56 100
69 203.5 25.6 38.4#
84 177.3 67.4 101.0#

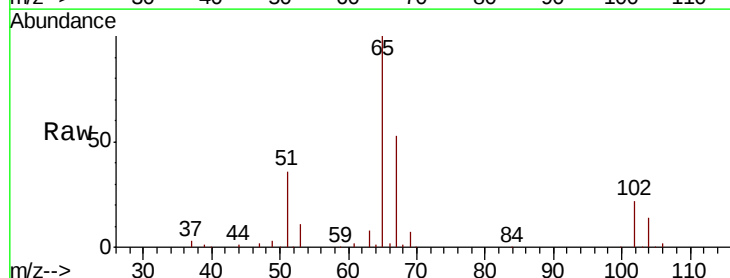


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

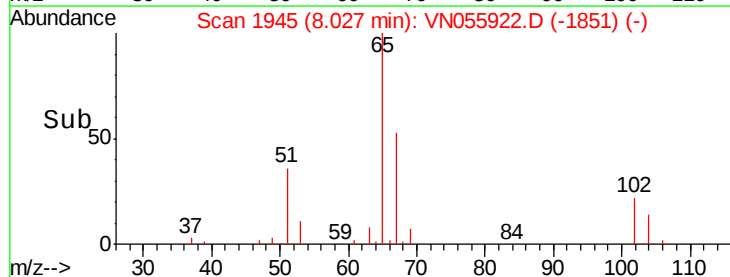
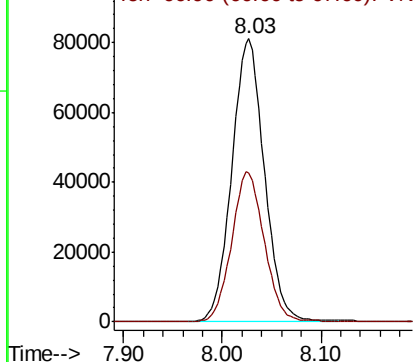


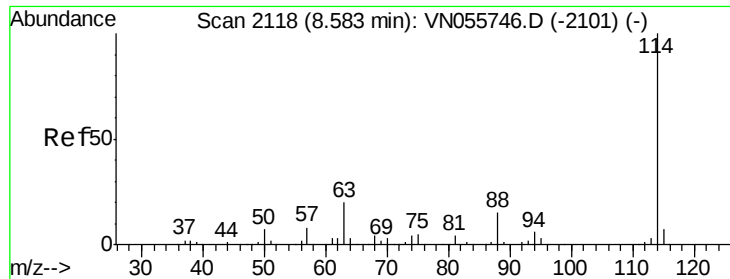
#33
1,2-Dichloroethane-d4
Concen: 54.452 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055922.D
Acq: 31 May 2019 16:23

Tgt Ion: 65 Resp: 186442
Ion Ratio Lower Upper
65 100
67 53.1 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN055922.D

Acq: 31 May 2019 16:23

Instrument :

MSVOA_N

ClientSampleId :

Z1-TB03-190528

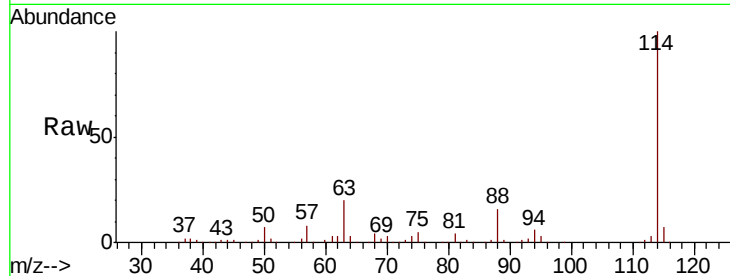
Tot Ion:114 Resp: 504066

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.2

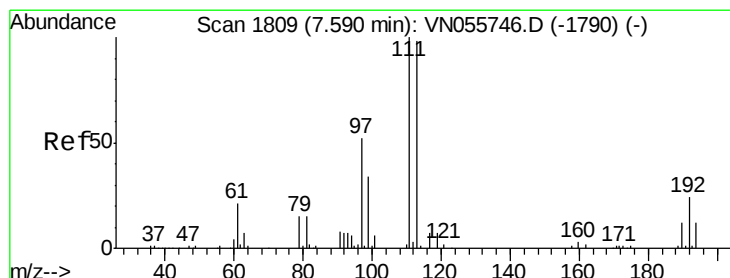
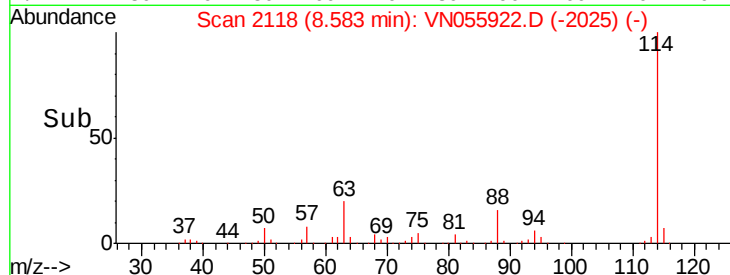
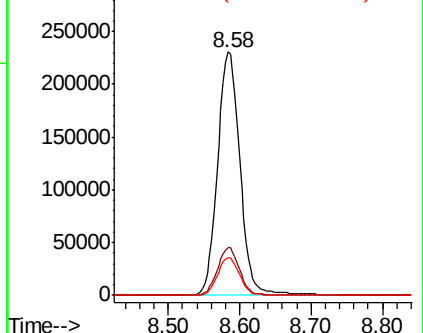
88 15.6 0.0 31.0



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: 50.210 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055922.D

Acq: 31 May 2019 16:23

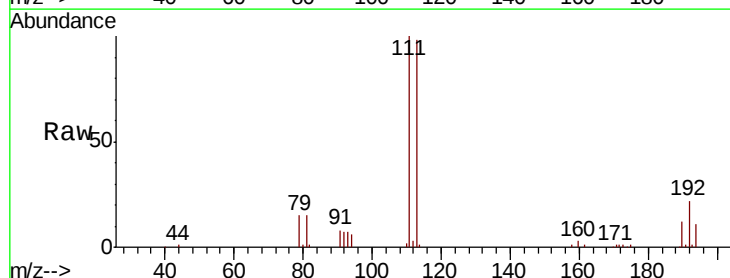
Tgt Ion:113 Resp: 160014

Ion Ratio Lower Upper

113 100

111 101.6 81.9 122.9

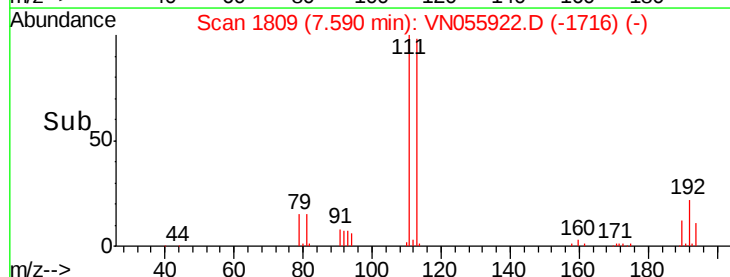
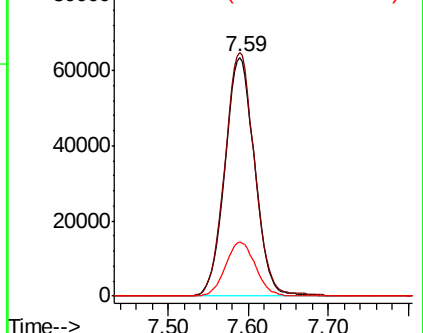
192 22.9 19.5 29.3

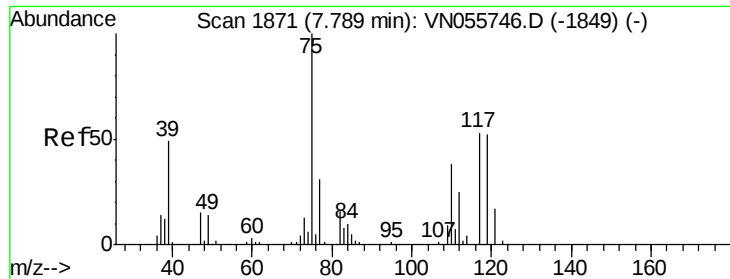


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

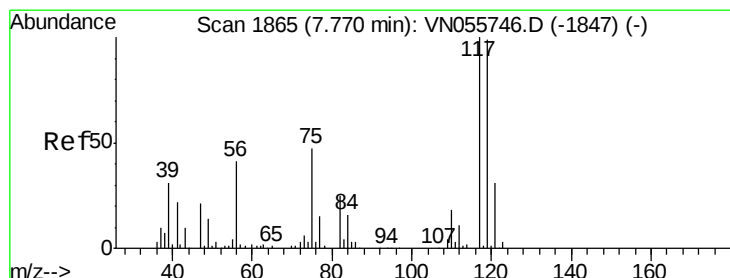
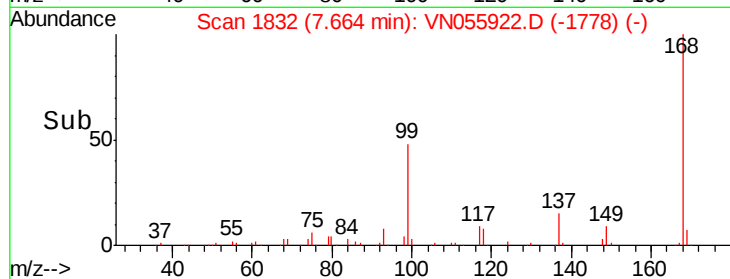
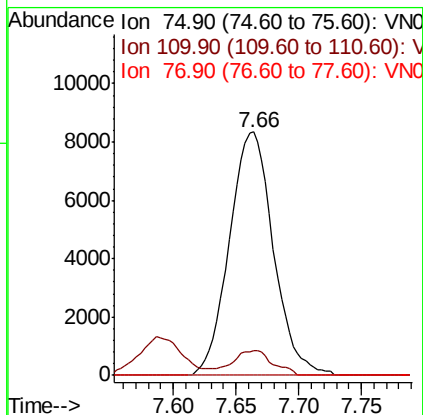
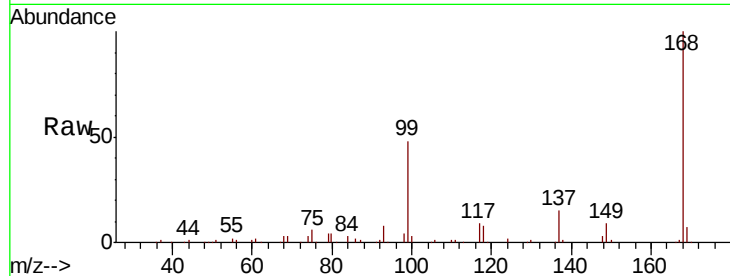




#36
 1,1-Dichloropropene
 Concen: 4.637 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055922.D
 Acq: 31 May 2019 16:23

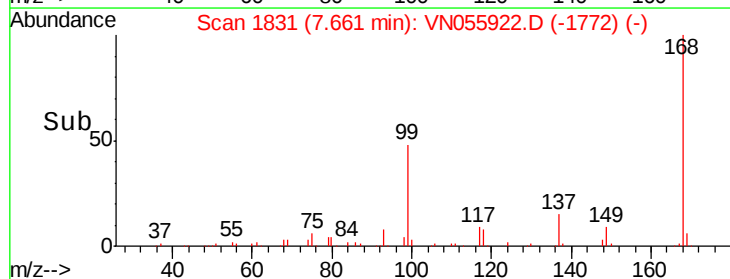
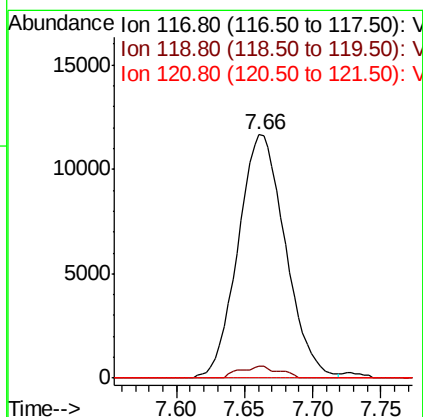
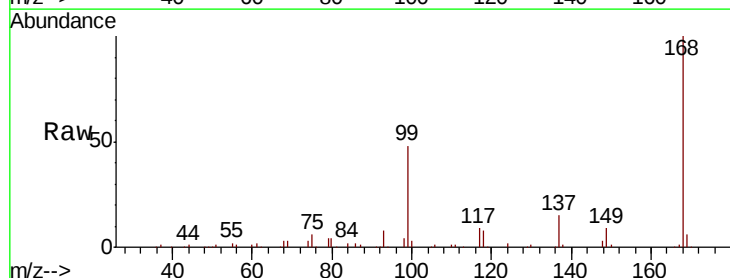
Instrument :
 MSVOA_N
 ClientSampleId :
 Z1-TB03-190528

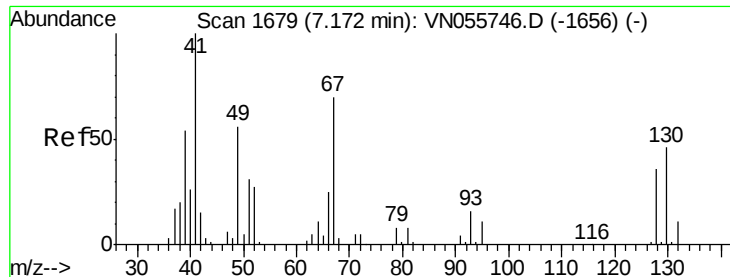
Tot Ion: 75 Resp: 20370
 Ion Ratio Lower Upper
 75 100
 110 9.3 19.0 57.0#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.133 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN055922.D
 Acq: 31 May 2019 16:23

Tgt Ion: 117 Resp: 28062
 Ion Ratio Lower Upper
 117 100
 119 4.8 79.0 118.6#
 121 0.0 24.7 37.1#

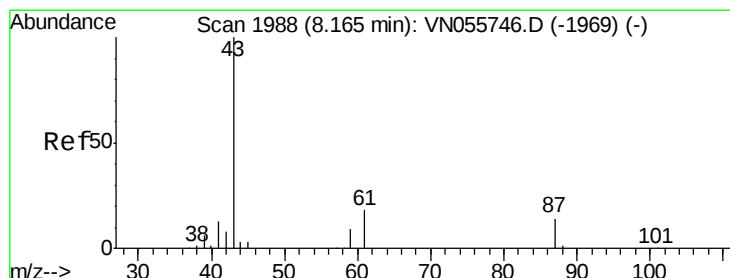
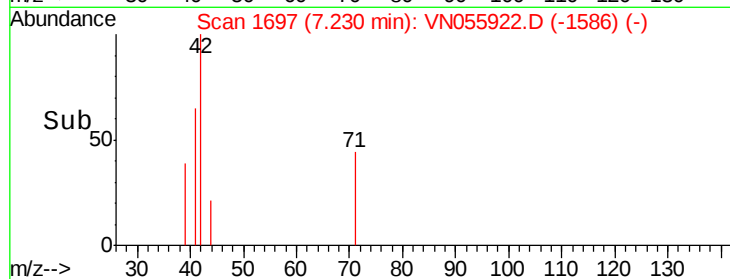
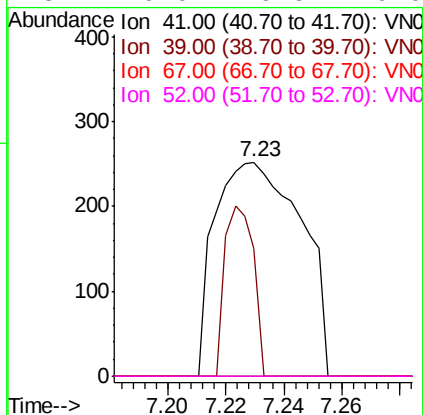
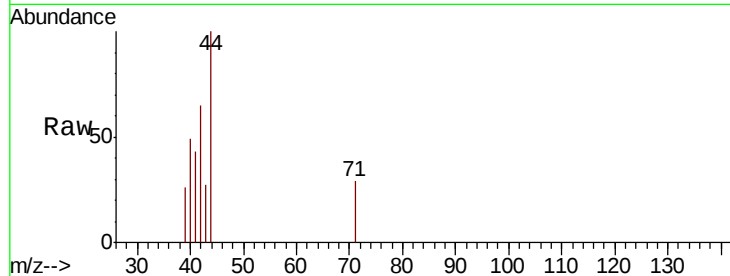




#41
Methacrylonitrile
Concen: 0.244 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.06 min
Lab File: VN055922.D
Acq: 31 May 2019 16:23

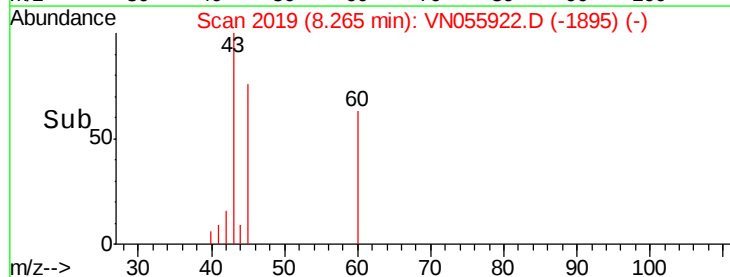
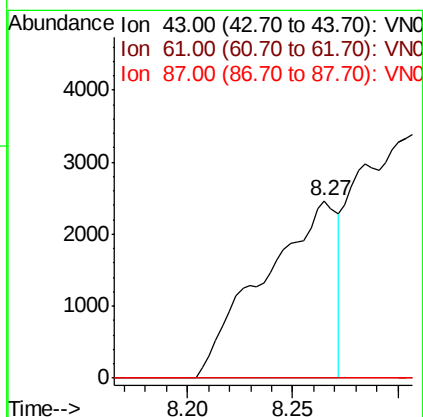
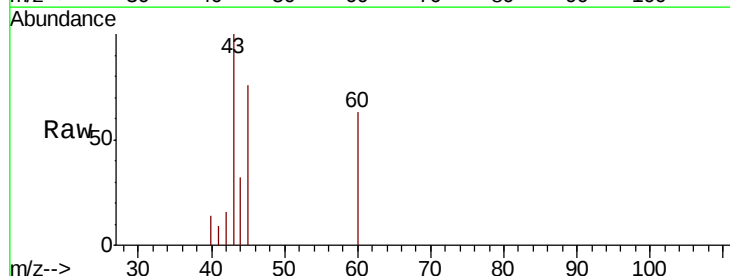
Instrument :
MSVOA_N
ClientSampleId :
Z1-TB03-190528

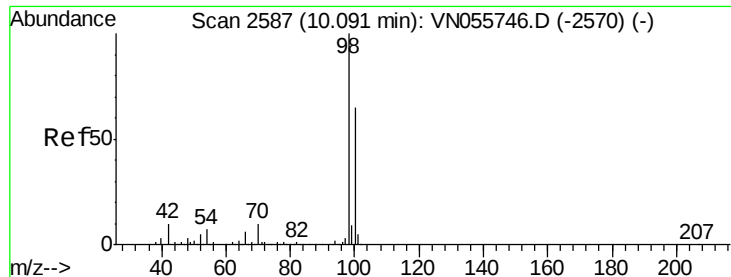
Tot Ion: 41 Resp: 523
Ion Ratio Lower Upper
41 100
39 26.0 45.6 68.4#
67 0.0 67.7 101.5#
52 0.0 26.6 40.0#



#43
Isopropyl Acetate
Concen: 0.839 ug/l
RT: 8.27 min Scan# 2019
Delta R.T. 0.10 min
Lab File: VN055922.D
Acq: 31 May 2019 16:23

Tgt Ion: 43 Resp: 5984
Ion Ratio Lower Upper
43 100
61 0.0 22.2 33.4#
87 0.0 11.4 17.2#





#50

Toluene-d8

Concen: 52.320 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055922.D

Acq: 31 May 2019 16:23

Instrument :

MSVOA_N

ClientSampleId :

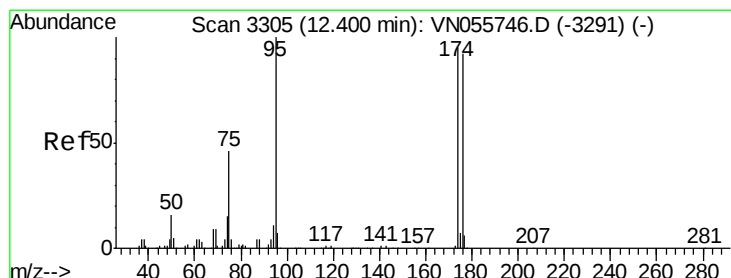
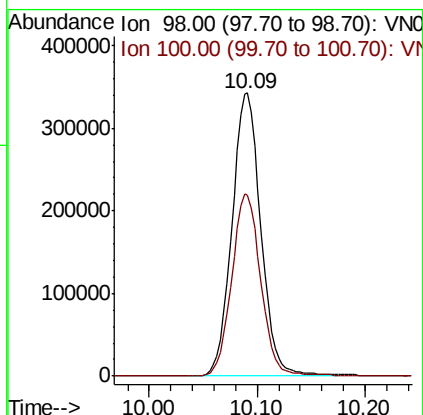
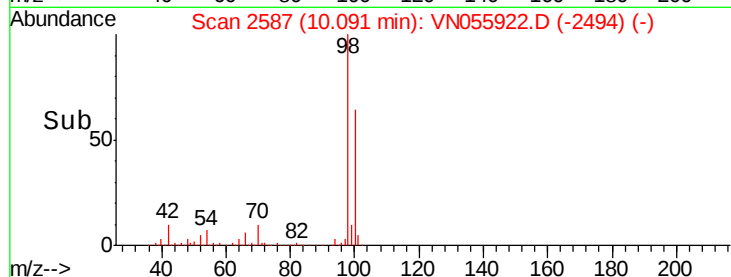
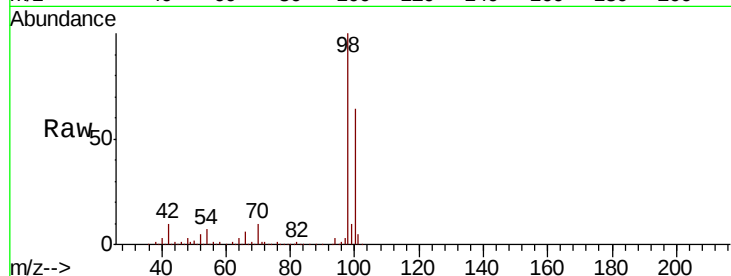
Z1-TB03-190528

Tot Ion: 98 Resp: 639586

Ion Ratio Lower Upper

98 100

100 65.0 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 48.757 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055922.D

Acq: 31 May 2019 16:23

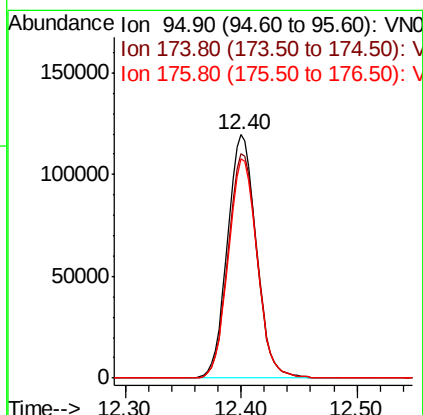
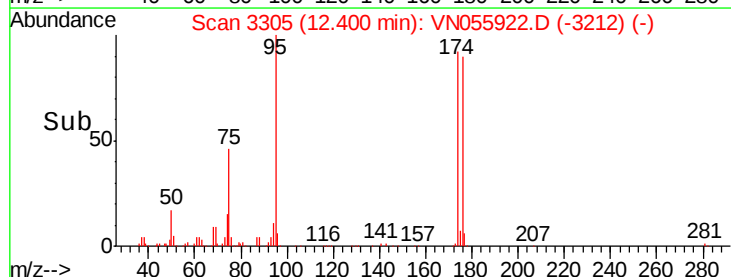
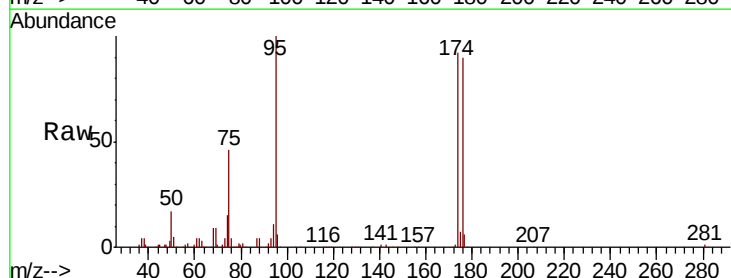
Tgt Ion: 95 Resp: 204371

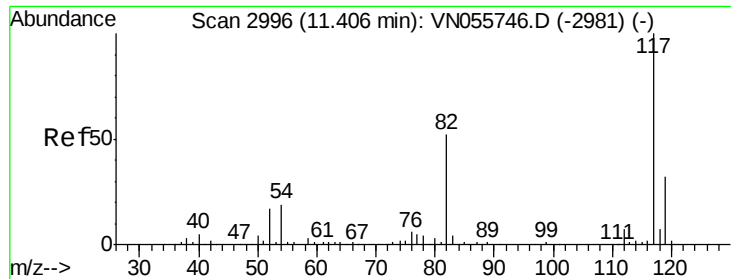
Ion Ratio Lower Upper

95 100

174 93.4 0.0 191.0

176 90.3 0.0 185.2

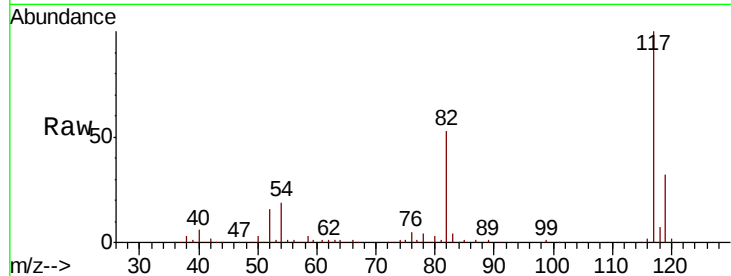




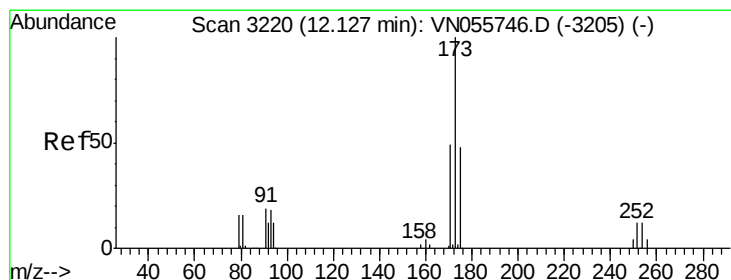
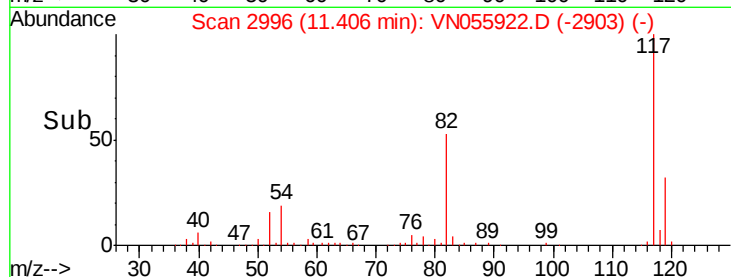
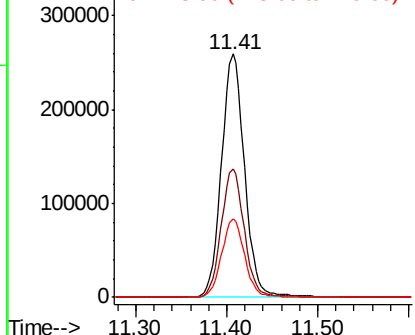
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055922.D
Acq: 31 May 2019 16:23

Instrument :
MSVOA_N
ClientSampleId :
Z1-TB03-190528

Tot Ion:117 Resp: 457733
Ion Ratio Lower Upper
117 100
82 52.9 41.8 62.8
119 32.3 25.4 38.0

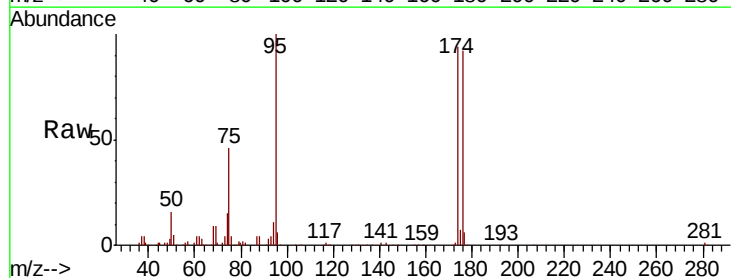


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

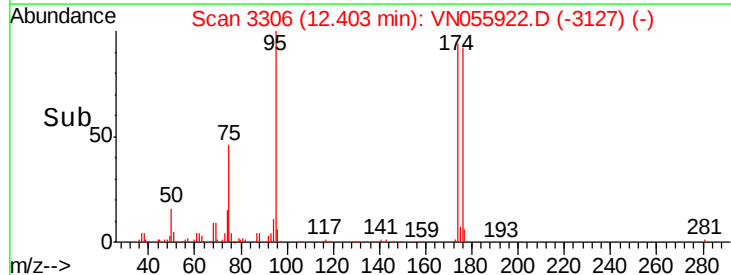
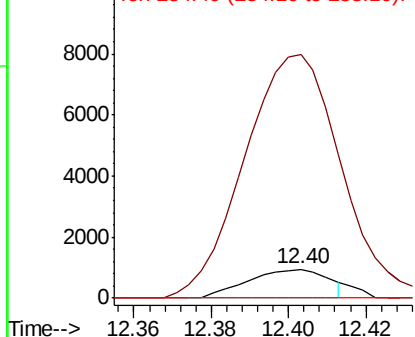


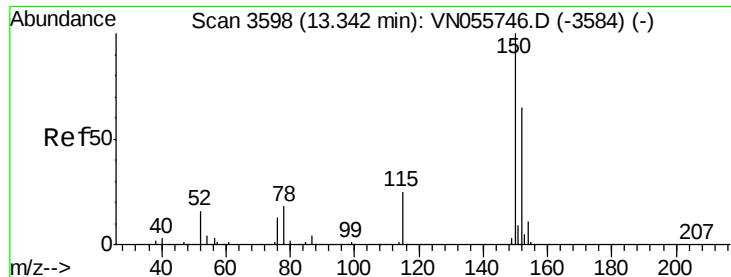
#71
Bromoform
Concen: 0.435 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055922.D
Acq: 31 May 2019 16:23

Tgt Ion:173 Resp: 1355
Ion Ratio Lower Upper
173 100
175 900.5 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: VN055922.D

Acq: 31 May 2019 16:23

Instrument :

MSVOA_N

ClientSampleId :

Z1-TB03-190528

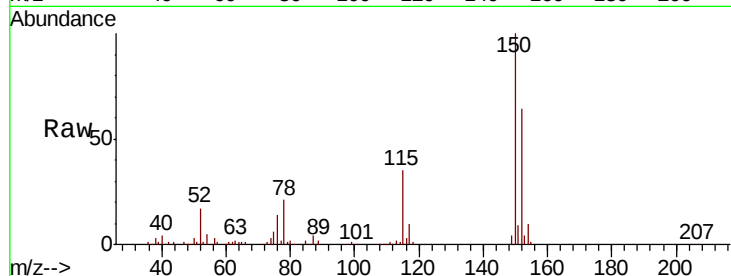
Tot Ion:152 Resp: 152091

Ion Ratio Lower Upper

152 100

115 53.8 27.0 81.0

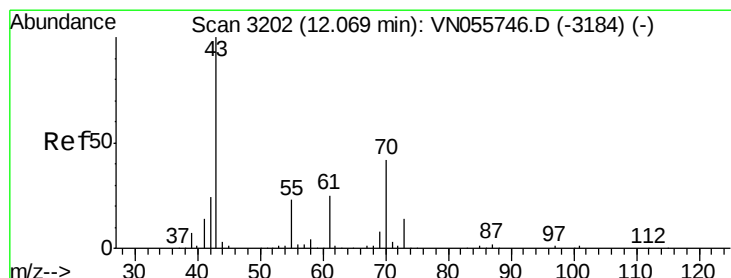
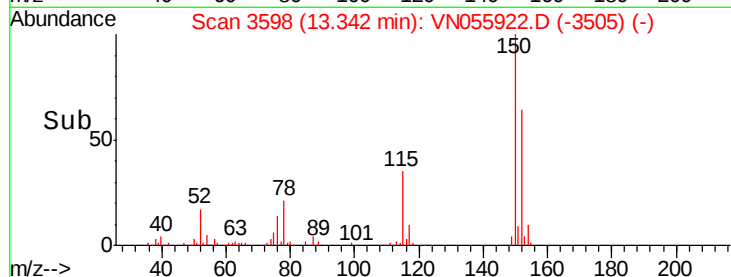
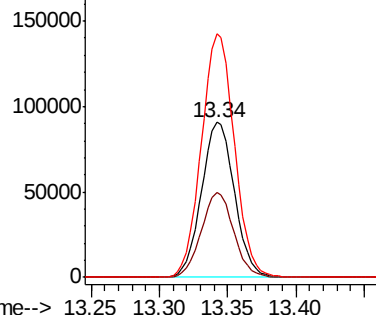
150 157.2 0.0 343.2



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN055922.D

Acq: 31 May 2019 16:23

Tgt Ion: 43 Resp: 65

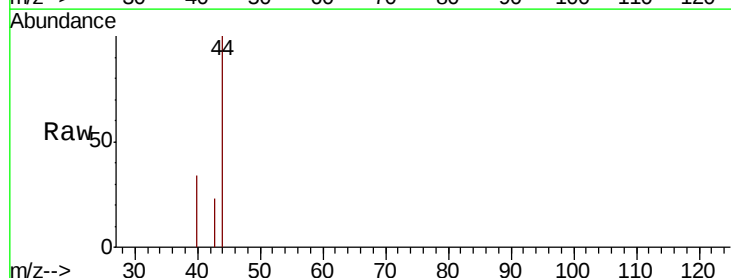
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#

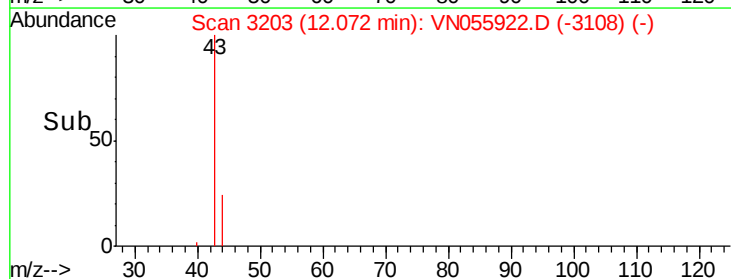
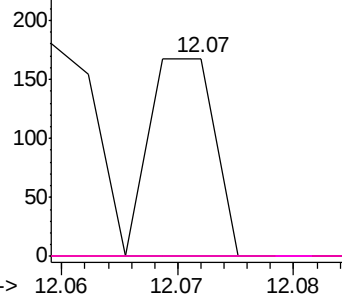


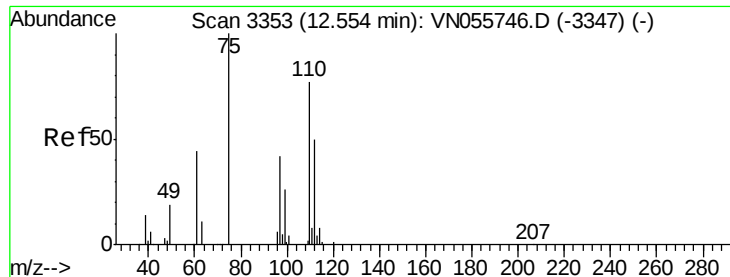
Abundance Ion 43.00 (42.70 to 43.70): V

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





#76

1,2,3-Trichloropropane

Concen: 35.462 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055922.D

Acq: 31 May 2019 16:23

Instrument :

MSVOA_N

ClientSampleId :

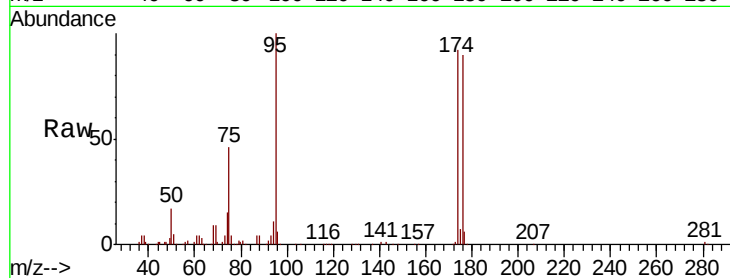
Z1-TB03-190528

Tot Ion: 75 Resp: 95268

Ion Ratio Lower Upper

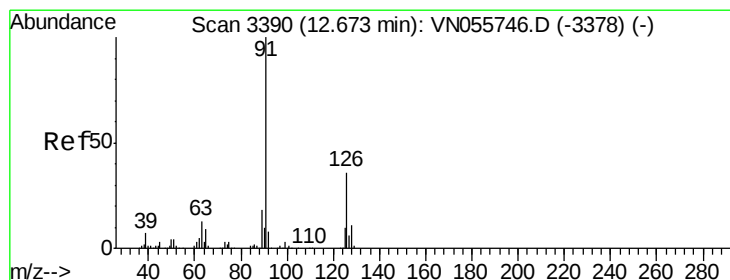
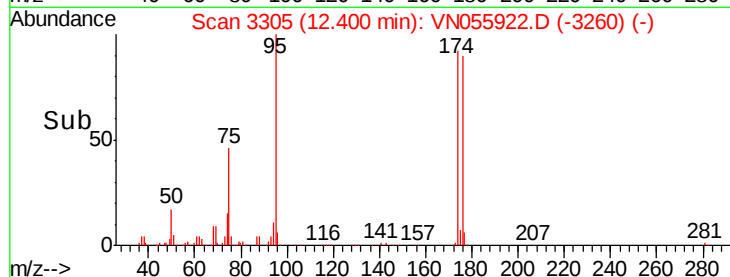
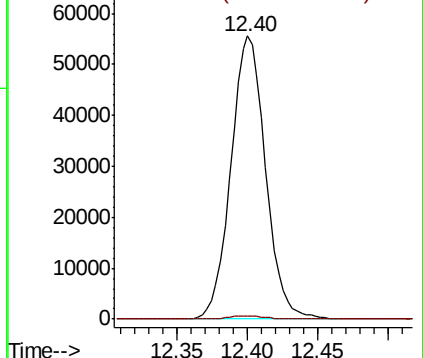
75 100

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# 3306

Delta R.T. -0.27 min

Lab File: VN055922.D

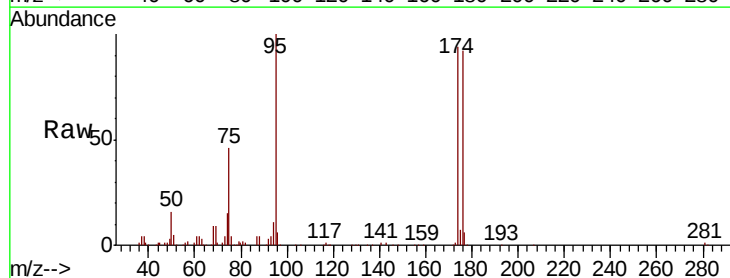
Acq: 31 May 2019 16:23

Tgt Ion: 91 Resp: 506

Ion Ratio Lower Upper

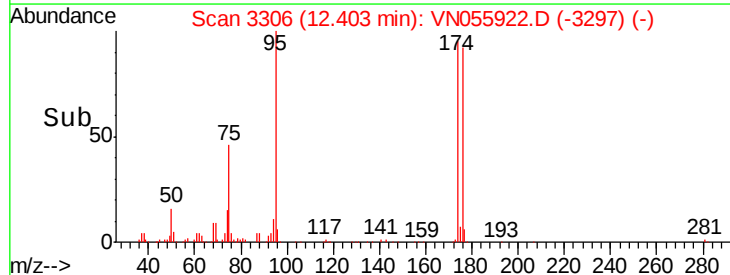
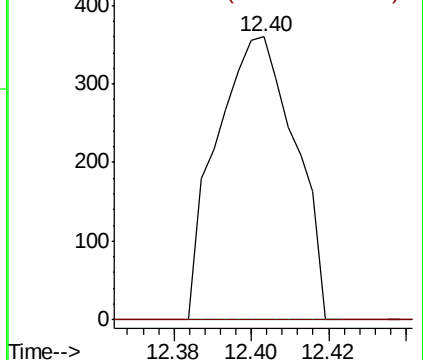
91 100

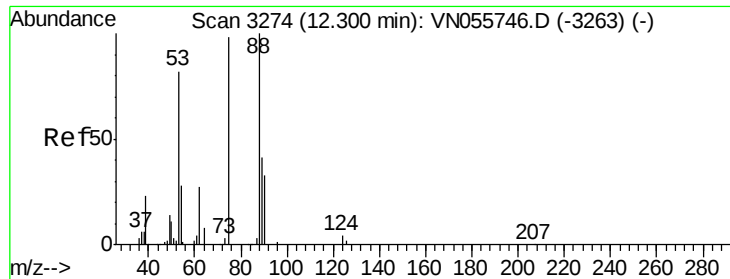
126 0.0 18.1 54.4#



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: 84.279 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055922.D

Acq: 31 May 2019 16:23

Instrument :

MSVOA_N

ClientSampled :

Z1-TB03-190528

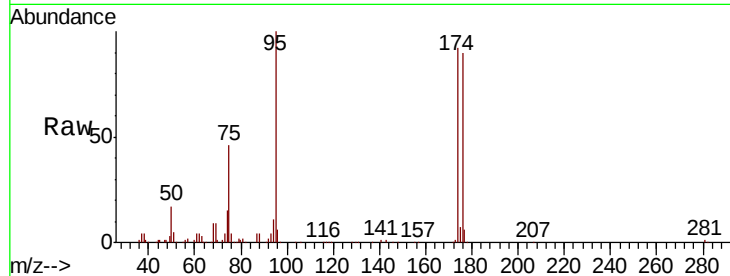
Tot Ion: 75 Resp: 95268

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

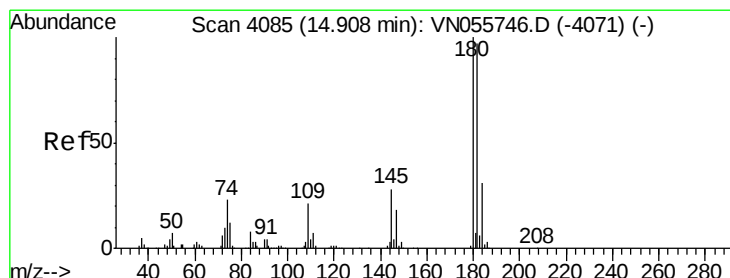
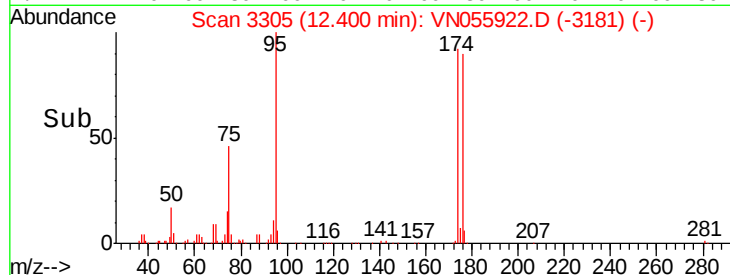
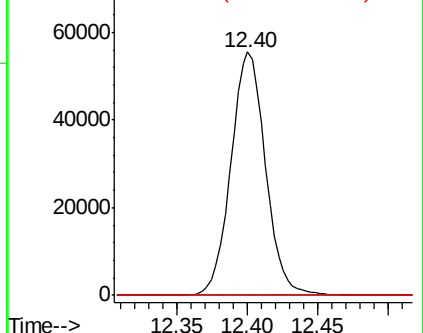
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055746.D (-3263) (-)

Ion 53.00 (52.70 to 53.70): VN055746.D (-3263) (-)

Ion 88.90 (88.60 to 89.60): VN055746.D (-3263) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.646 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN055922.D

Acq: 31 May 2019 16:23

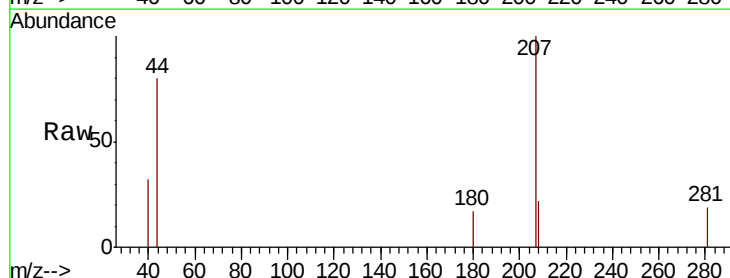
Tgt Ion: 180 Resp: 30

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.9#

145 0.0 14.0 41.9#



Abundance Ion 179.80 (179.50 to 180.50): VN055746.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN055746.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN055746.D (-4071) (-)

