

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060319\
 Data File : VN055954.D
 Acq On : 3 Jun 2019 12:09
 Operator : JC/SP
 Sample : K3129-11DL 100X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 03 16:22:05 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

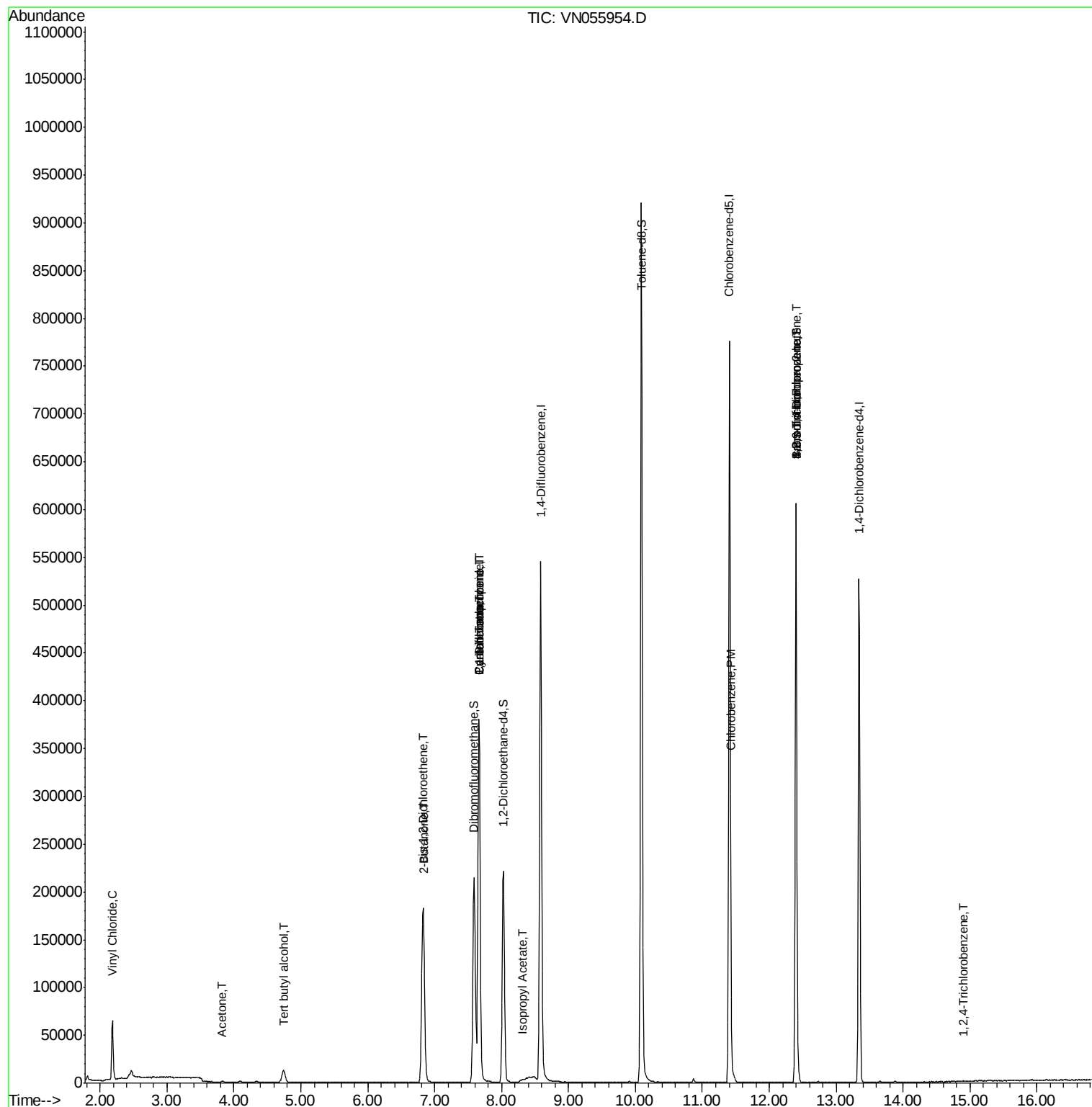
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	352617	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	535421	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	501149	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	163266	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	189654	52.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.16%	
35) Dibromofluoromethane	7.59	113	166814	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
50) Toluene-d8	10.09	98	682789	52.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.16%	
62) 4-Bromofluorobenzene	12.40	95	215080	48.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.62%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.18	62	58072	16.375	ug/l	99
11) Tert butyl alcohol	4.74	59	11579	16.642	ug/l #	74
16) Acetone	3.81	43	398	0.249	ug/l #	41
18) Methyl Acetate	4.33	43	1623	Below Cal	#	55
25) 2-Butanone	6.84	43	452	0.202	ug/l #	1
27) cis-1,2-Dichloroethene	6.82	96	127338	33.877	ug/l	91
31) Cyclohexane	7.66	56	4884	0.894	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	21134	4.529	ug/l #	42
38) Carbon Tetrachloride	7.66	117	30028	6.178	ug/l #	15
43) Isopropyl Acetate	8.33	43	5481	0.723	ug/l #	53
65) Chlorobenzene	11.43	112	2305	0.230	ug/l	98
71) Bromoform	12.40	173	1544	0.452	ug/l #	1
73) Isopropylbenzene	12.40	105	99	Below Cal	#	48
74) N-amyl acetate	12.06	43	30	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	98775	34.136	ug/l #	100
79) 2-Chlorotoluene	12.59	91	191	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	61	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	98775	81.401	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.03	105	243	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	99	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.90	180	96	3.665	ug/l #	62

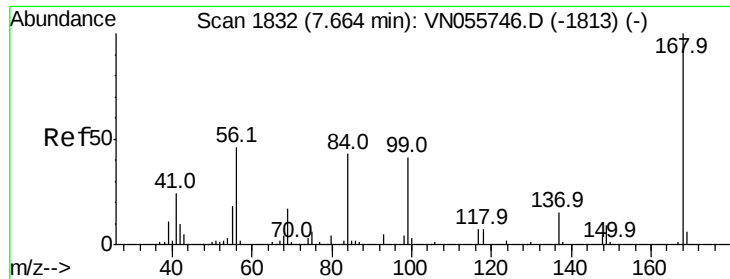
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055954.D

Acq: 3 Jun 2019 12:09

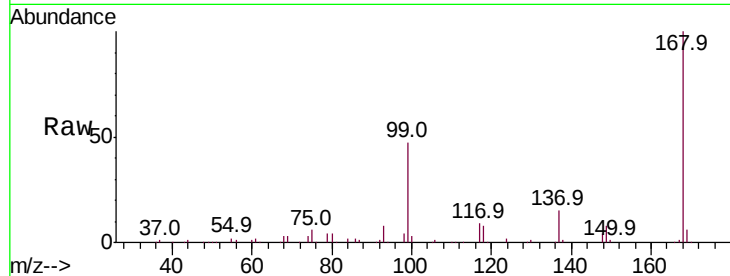
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 352617

Ion Ratio Lower Upper

168 100

99 46.6 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

150000

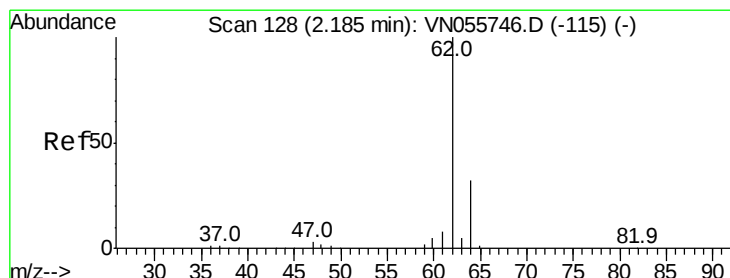
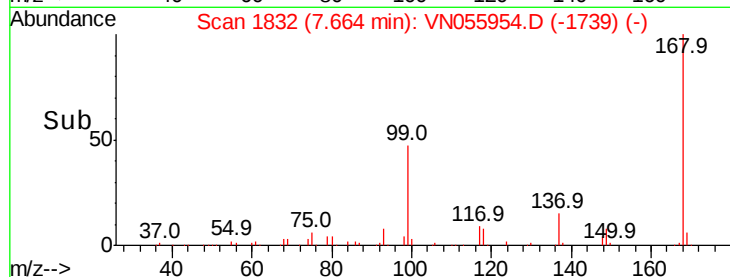
100000

50000

0

Time-->

7.60 7.70 7.80



#4

Vinyl Chloride

Concen: 16.375 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055954.D

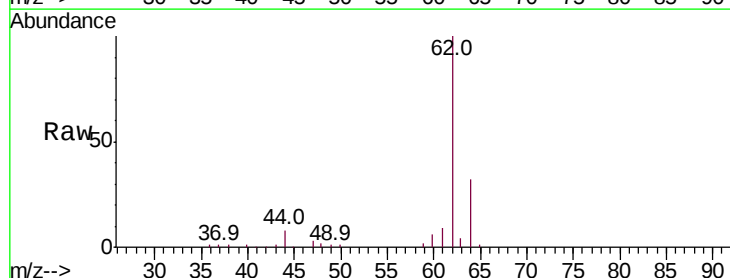
Acq: 3 Jun 2019 12:09

Tgt Ion: 62 Resp: 58072

Ion Ratio Lower Upper

62 100

64 31.6 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.18

40000

30000

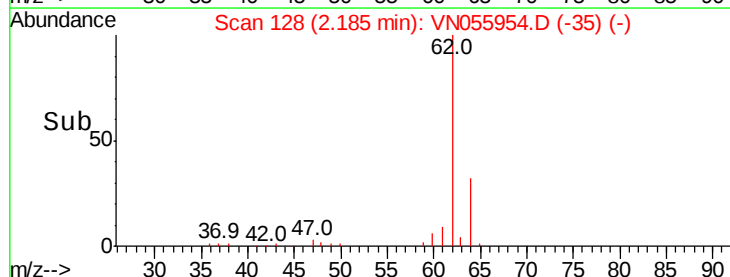
20000

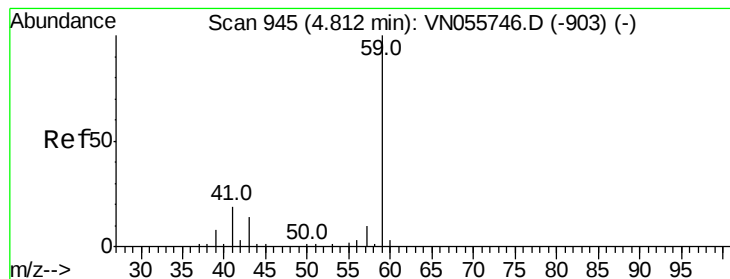
10000

0

Time-->

2.10 2.15 2.20 2.25



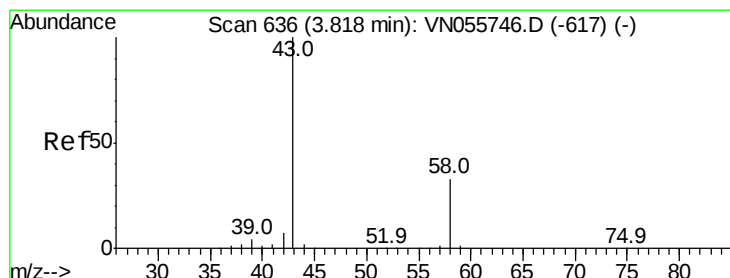
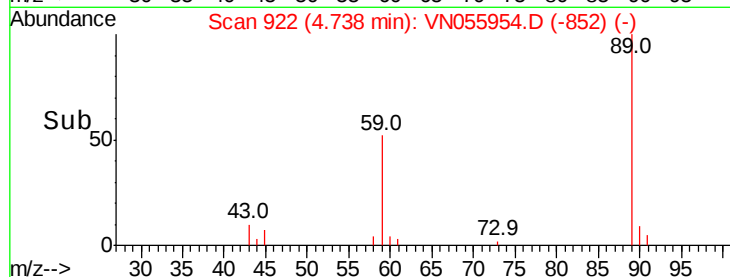
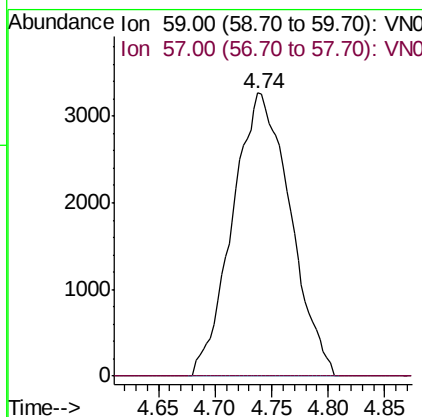
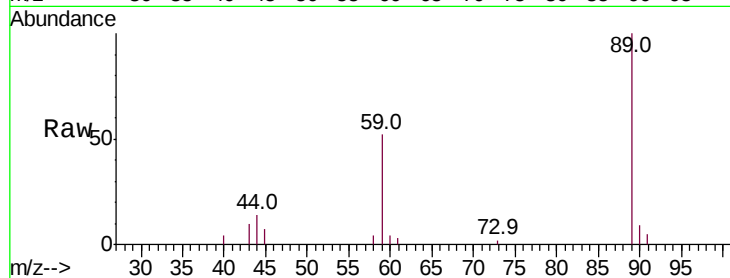


#11

Tert butyl alcohol
 Concen: 16.642 ug/l
 RT: 4.74 min Scan# 922
 Delta R.T. -0.07 min
 Lab File: VN055954.D
 Acq: 3 Jun 2019 12:09

Instrument :
 MSVOA_N
 ClientSampled :

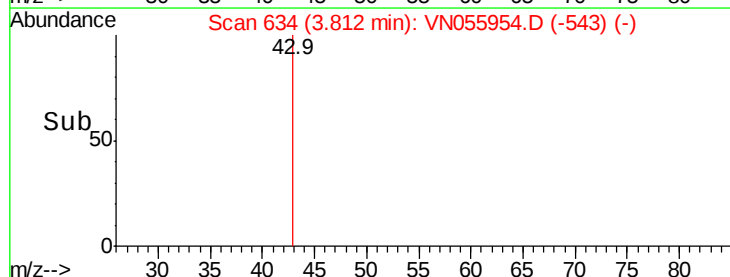
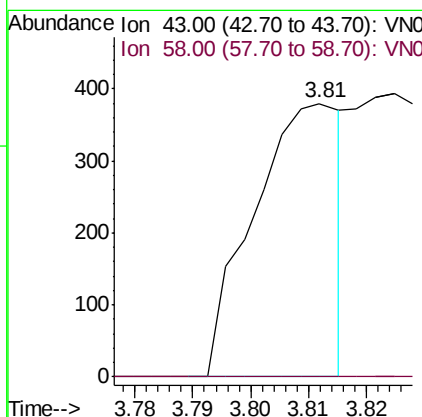
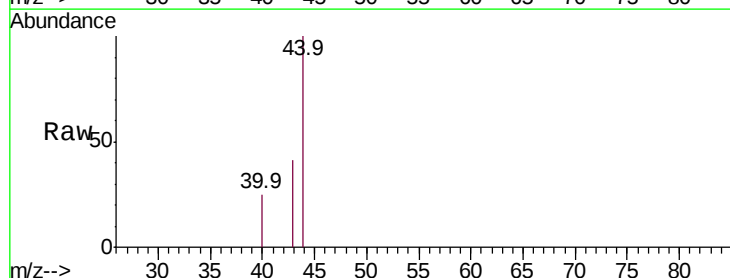
Tot Ion: 59 Resp: 11579
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

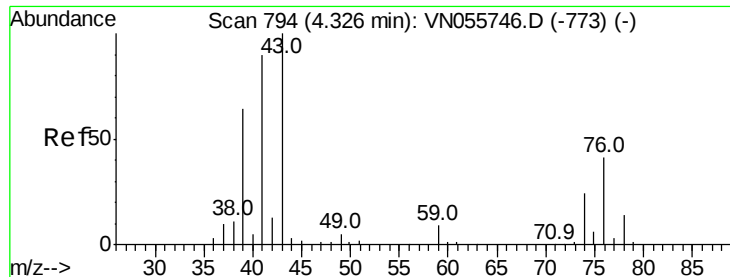


#16

Acetone
 Concen: 0.249 ug/l
 RT: 3.81 min Scan# 634
 Delta R.T. -0.01 min
 Lab File: VN055954.D
 Acq: 3 Jun 2019 12:09

Tgt Ion: 43 Resp: 398
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.6 39.8#

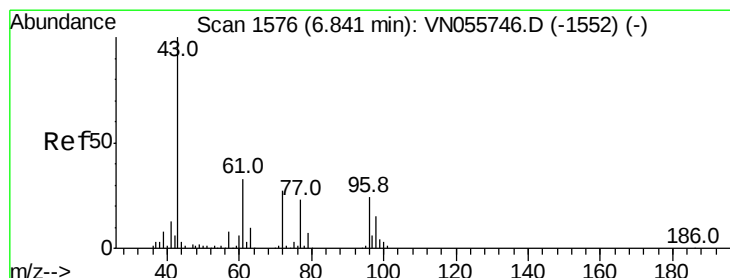
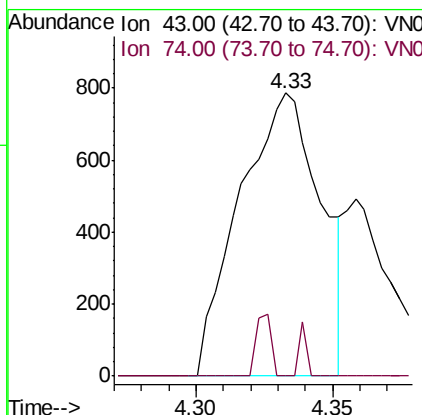
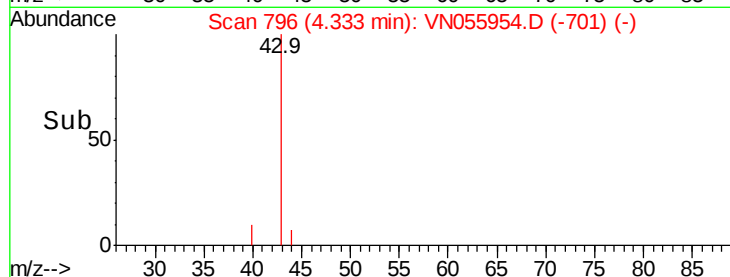
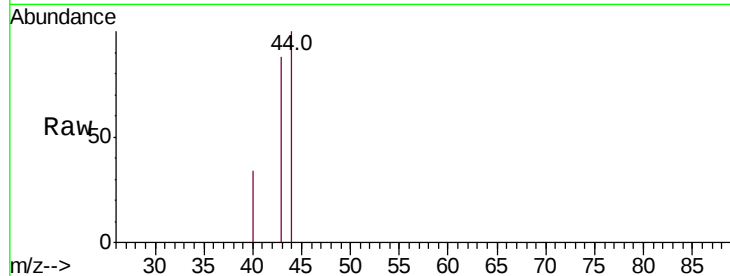




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN055954.D
Acq: 3 Jun 2019 12:09

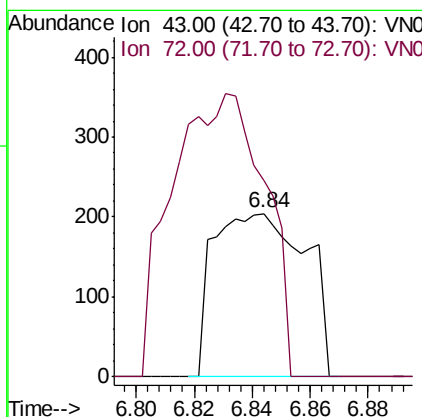
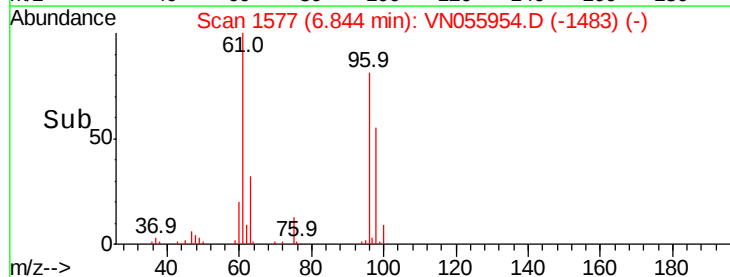
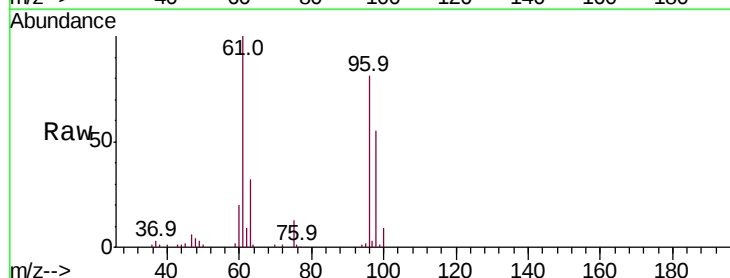
Instrument :
MSVOA_N
ClientSampleId :

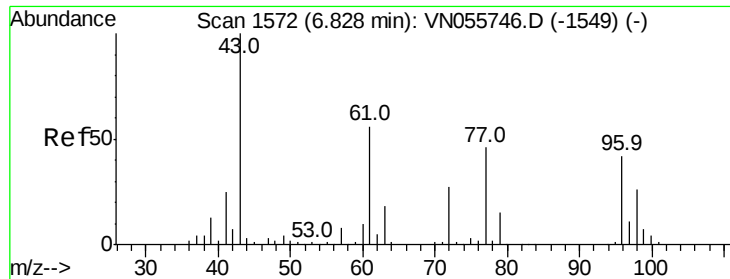
Tot Ion: 43 Resp: 1623
Ion Ratio Lower Upper
43 100
74 1.8 19.3 28.9#



#25
2-Butanone
Concen: 0.202 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VN055954.D
Acq: 3 Jun 2019 12:09

Tgt Ion: 43 Resp: 452
Ion Ratio Lower Upper
43 100
72 120.6 21.9 32.9#





#27

cis-1,2-Dichloroethene

Concen: 33.877 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN055954.D

Acq: 3 Jun 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

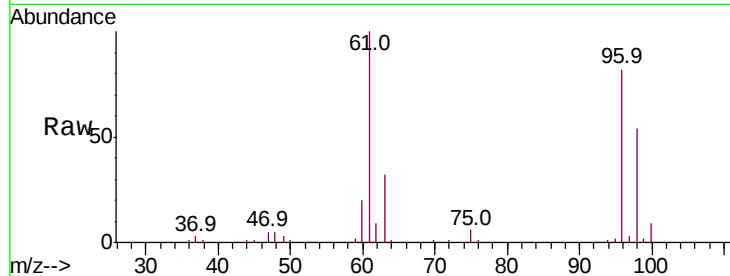
Tot Ion: 96 Resp: 127338

Ion Ratio Lower Upper

96 100

61 122.8 0.0 275.8

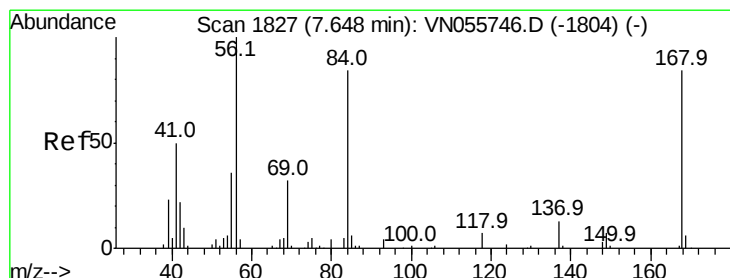
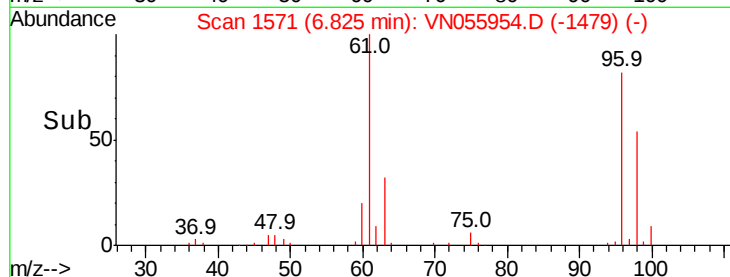
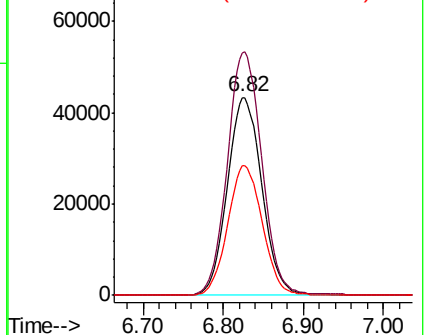
98 65.5 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 0.894 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN055954.D

Acq: 3 Jun 2019 12:09

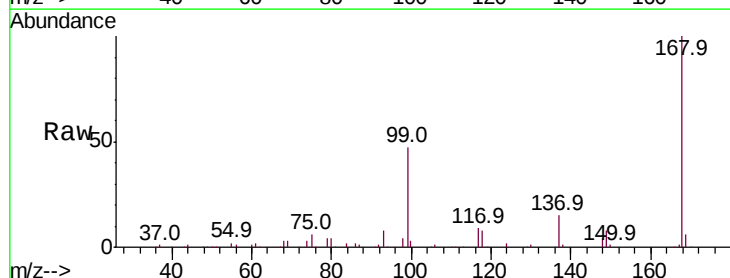
Tgt Ion: 56 Resp: 4884

Ion Ratio Lower Upper

56 100

69 201.9 25.6 38.4#

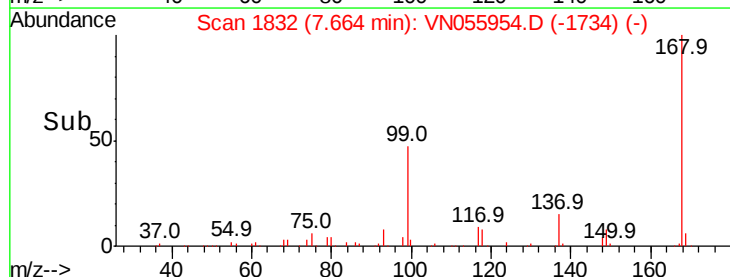
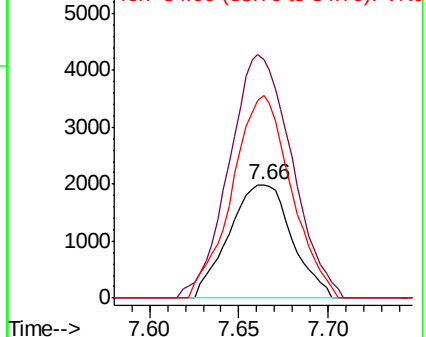
84 179.3 67.4 101.0#

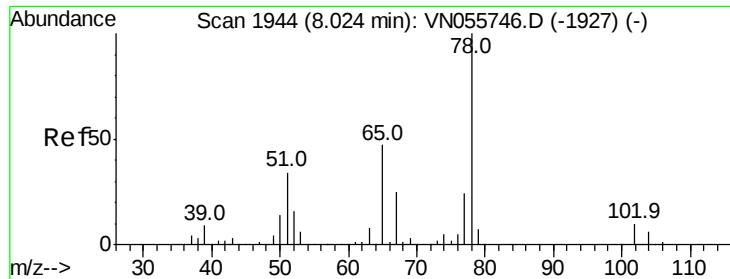


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

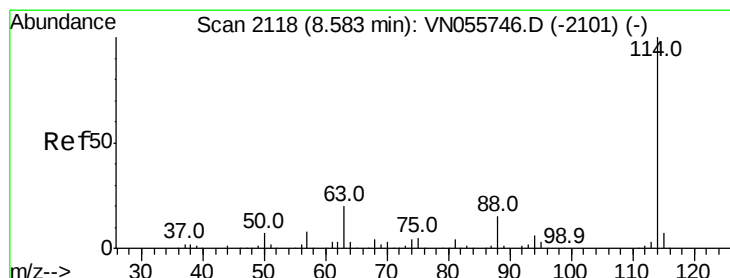
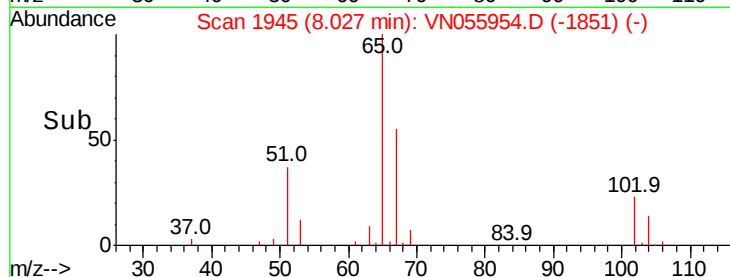
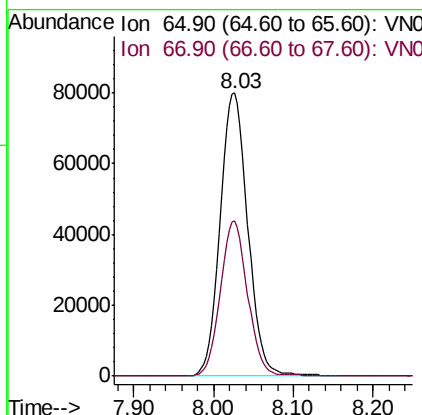
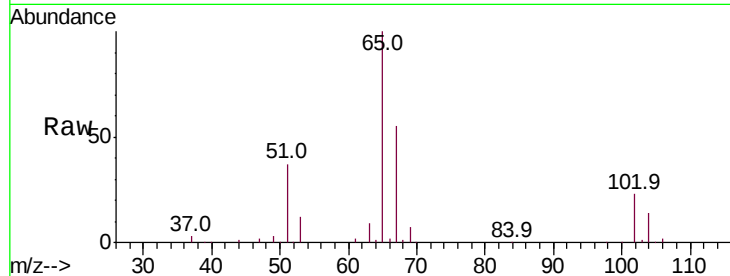




#33
 1,2-Dichloroethane-d4
 Concen: 52.081 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055954.D
 Acq: 3 Jun 2019 12:09

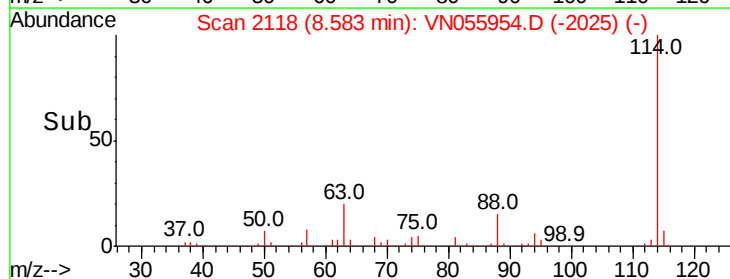
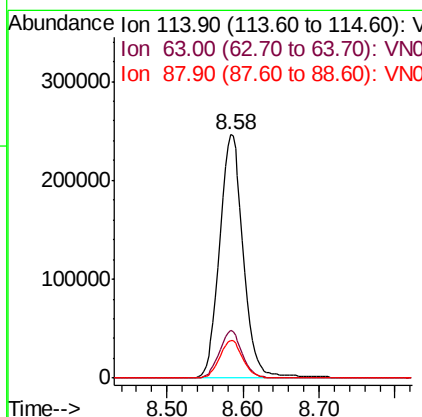
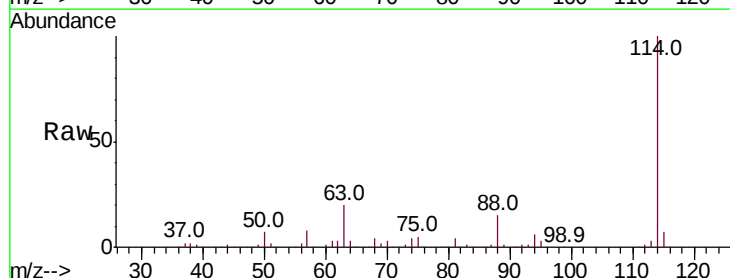
Instrument :
 MSVOA_N
 ClientSampleId :

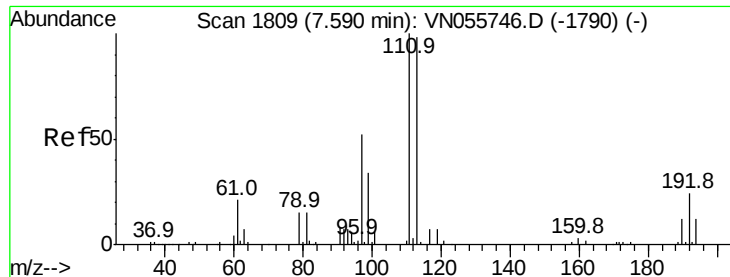
Tot Ion: 65 Resp: 189654
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055954.D
 Acq: 3 Jun 2019 12:09

Tgt Ion: 114 Resp: 535421
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.2
 88 15.4 0.0 31.0





#35

Dibromofluoromethane

Concen: 49.279 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

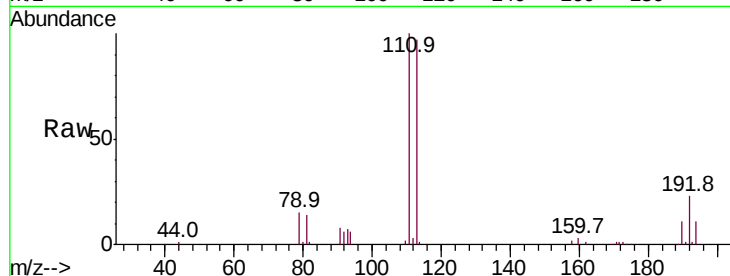
Lab File: VN055954.D

Acq: 3 Jun 2019 12:09

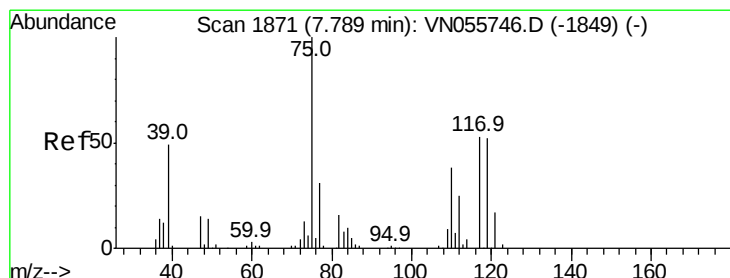
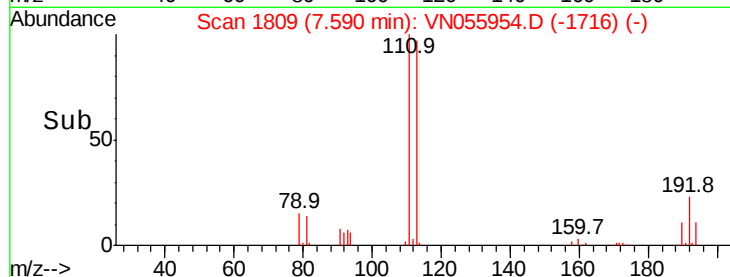
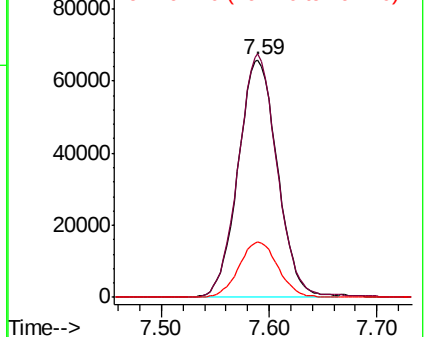
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:113 Resp: 166814

Ion	Ratio	Lower	Upper
113	100		
111	100.4	81.9	122.9
192	23.2	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: 4.529 ug/l

RT: 7.66 min Scan# 1832

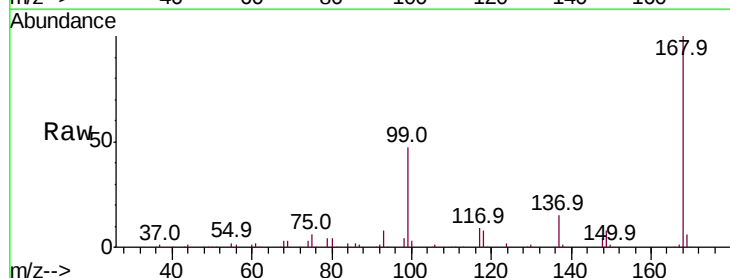
Delta R.T. -0.13 min

Lab File: VN055954.D

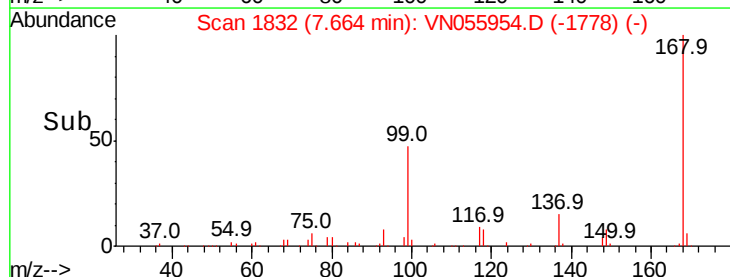
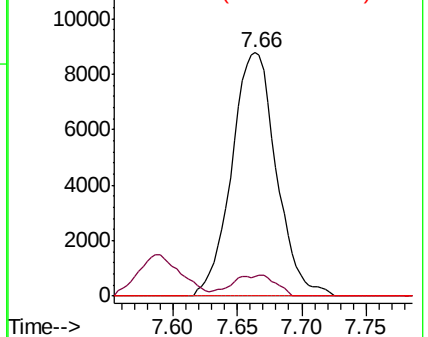
Acq: 3 Jun 2019 12:09

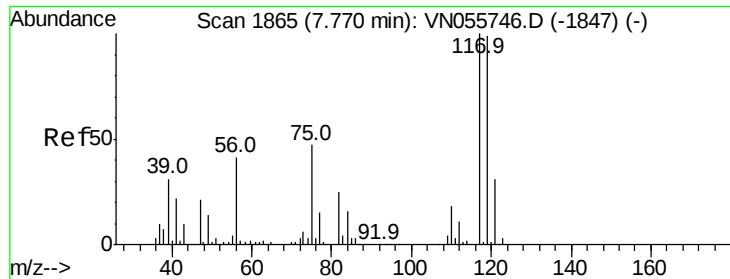
Tgt Ion: 75 Resp: 21134

Ion	Ratio	Lower	Upper
75	100		
110	2.8	19.0	57.0#
77	0.0	25.1	37.7#



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

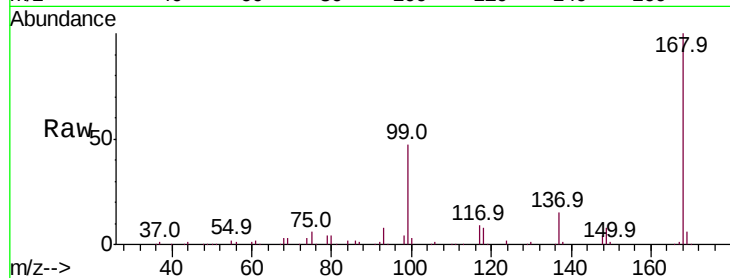




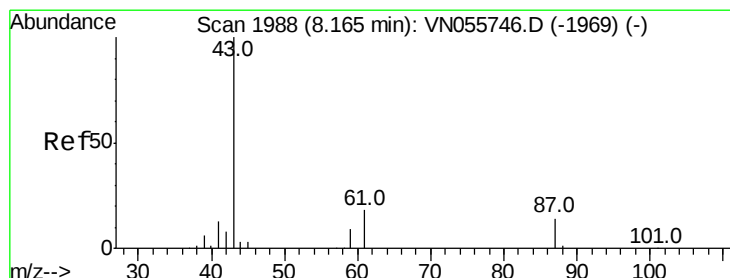
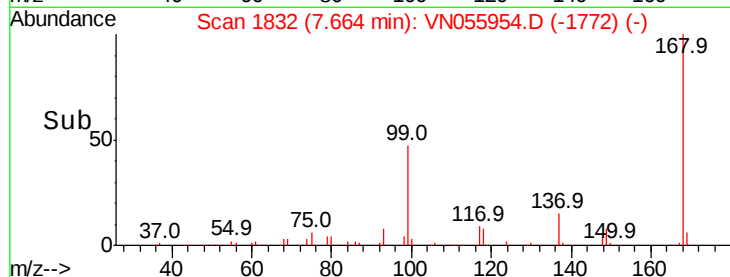
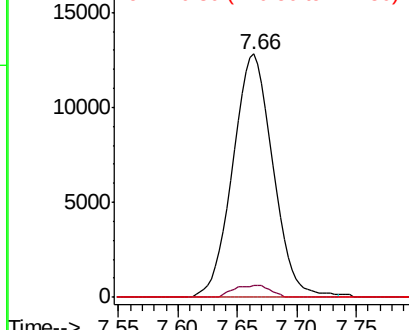
#38
Carbon Tetrachloride
Concen: 6.178 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN055954.D
Acq: 3 Jun 2019 12:09

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 30028
Ion Ratio Lower Upper
117 100
119 4.8 79.0 118.6#
121 0.0 24.7 37.1#

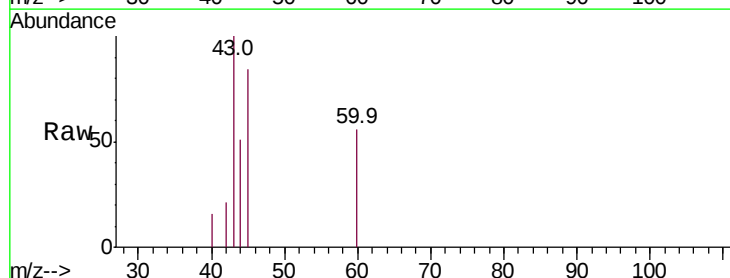


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

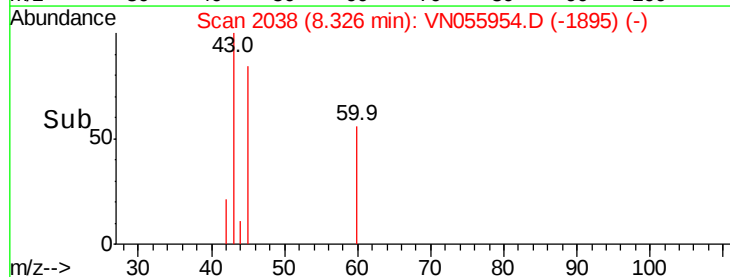
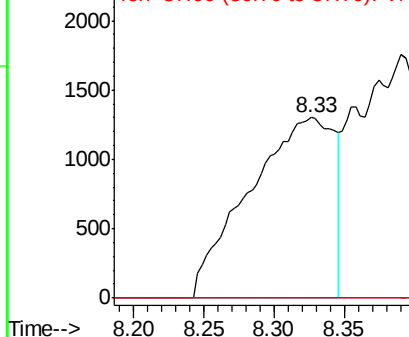


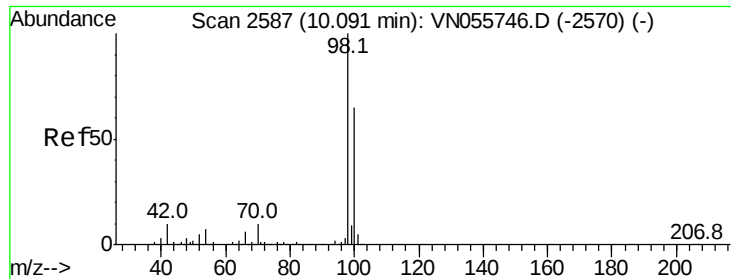
#43
Isopropyl Acetate
Concen: 0.723 ug/l
RT: 8.33 min Scan# 2038
Delta R.T. 0.16 min
Lab File: VN055954.D
Acq: 3 Jun 2019 12:09

Tgt Ion: 43 Resp: 5481
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: 52.583 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055954.D

Acq: 3 Jun 2019 12:09

Instrument :

MSVOA_N

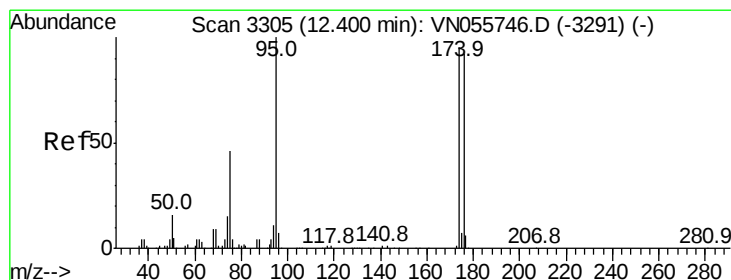
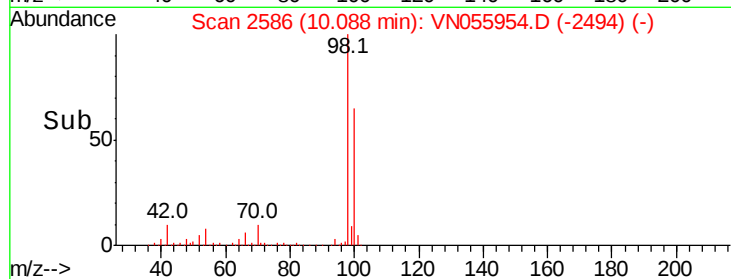
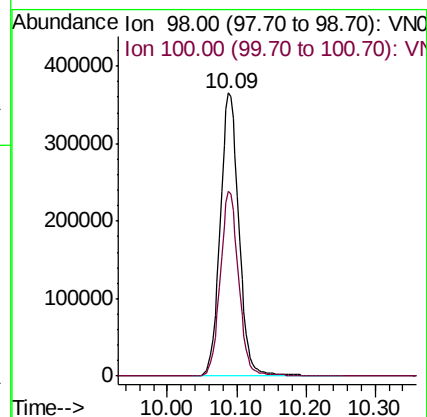
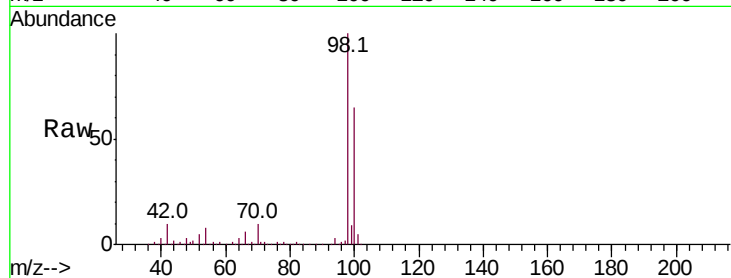
ClientSampleId :

Tot Ion: 98 Resp: 682789

Ion Ratio Lower Upper

98 100

100 64.1 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 48.306 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055954.D

Acq: 3 Jun 2019 12:09

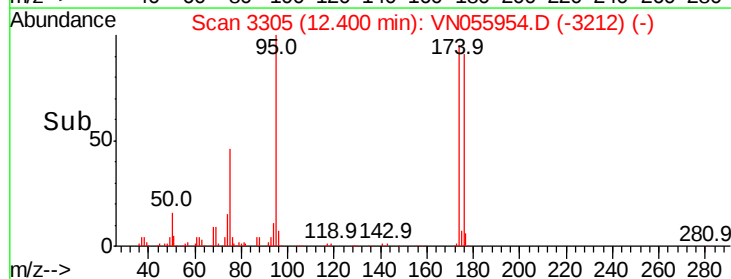
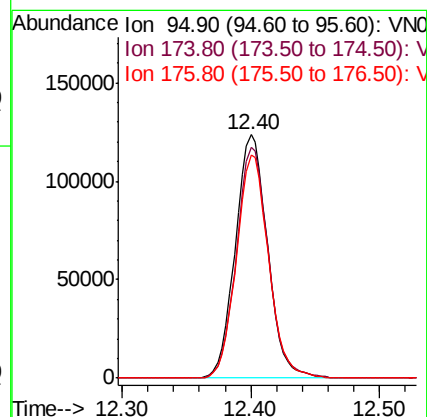
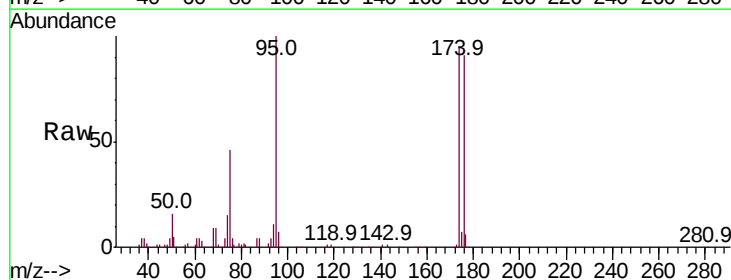
Tgt Ion: 95 Resp: 215080

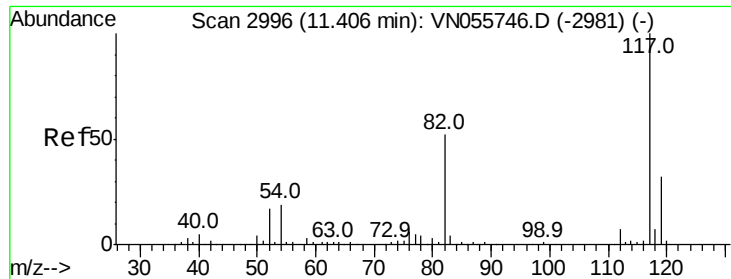
Ion Ratio Lower Upper

95 100

174 93.9 0.0 191.0

176 91.4 0.0 185.2

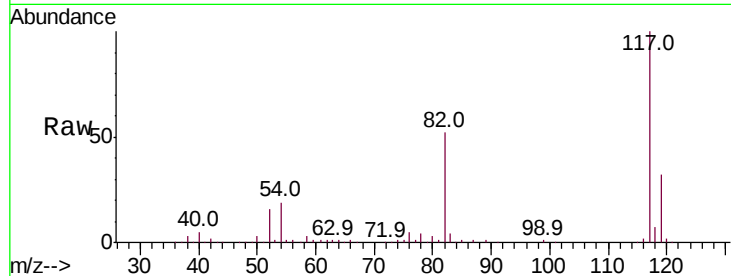




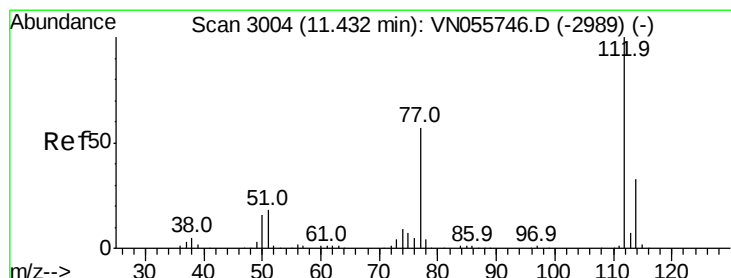
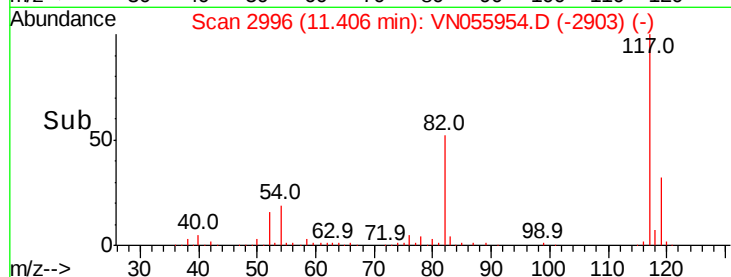
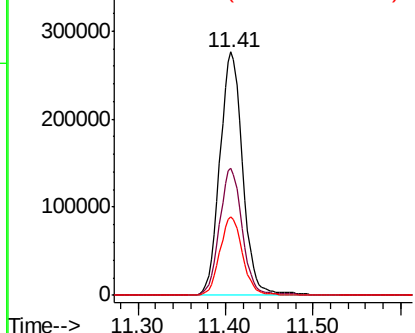
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055954.D
Acq: 3 Jun 2019 12:09

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 501149
Ion Ratio Lower Upper
117 100
82 52.4 41.8 62.8
119 32.4 25.4 38.0

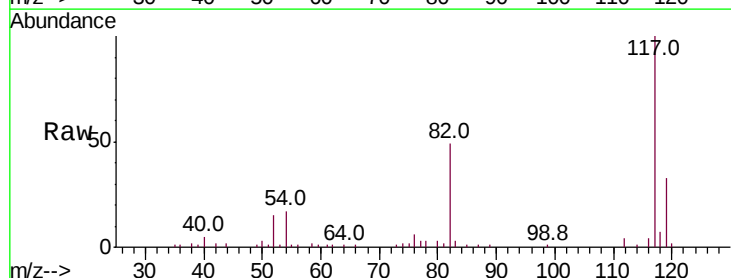


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

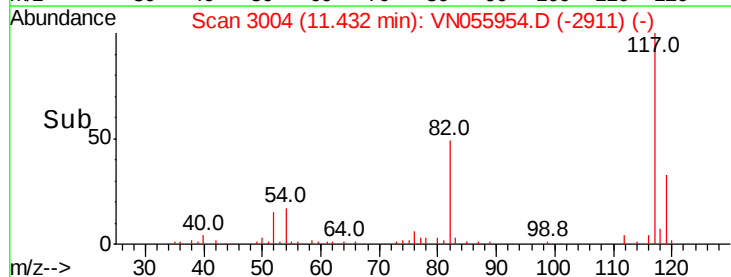
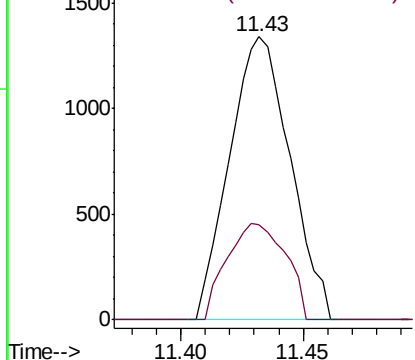


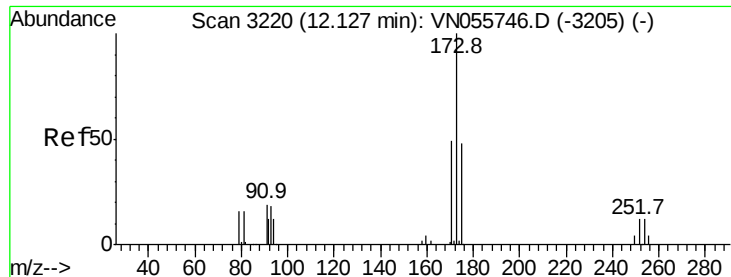
#65
Chlorobenzene
Concen: 0.230 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055954.D
Acq: 3 Jun 2019 12:09

Tgt Ion:112 Resp: 2305
Ion Ratio Lower Upper
112 100
114 33.8 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: 0.452 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055954.D

Acq: 3 Jun 2019 12:09

Instrument :

MSVOA_N

ClientSampled :

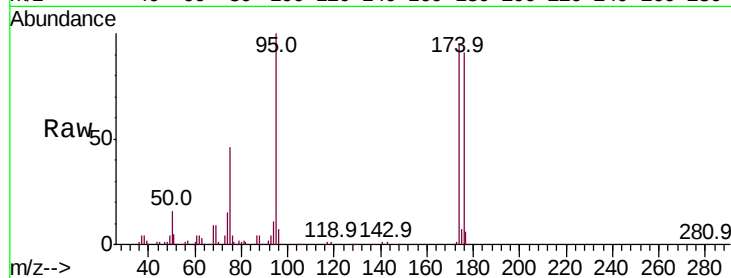
Tot Ion:173 Resp: 1544

Ion Ratio Lower Upper

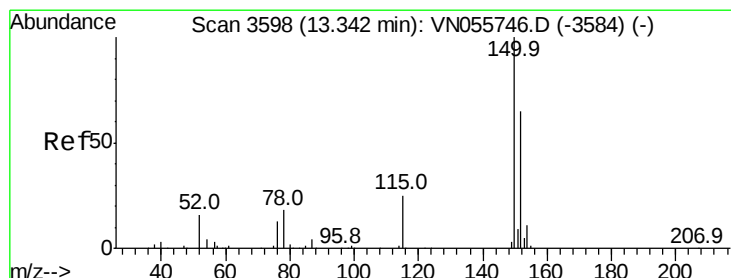
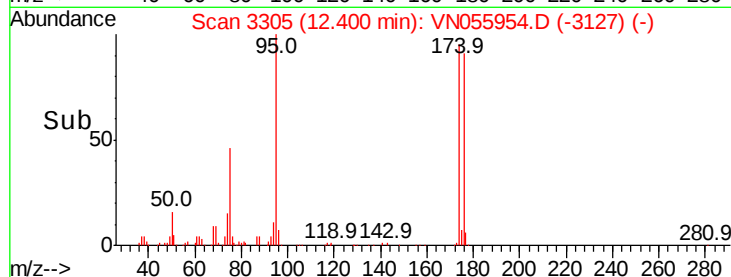
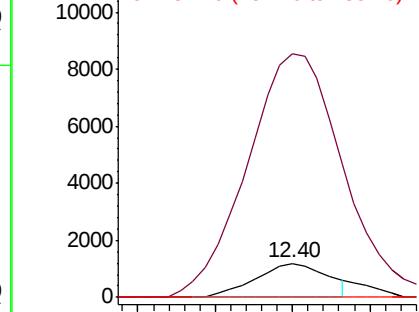
173 100

175 839.2 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: VN055954.D

Acq: 3 Jun 2019 12:09

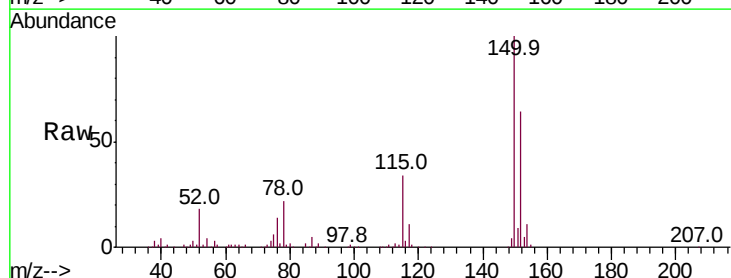
Tgt Ion:152 Resp: 163266

Ion Ratio Lower Upper

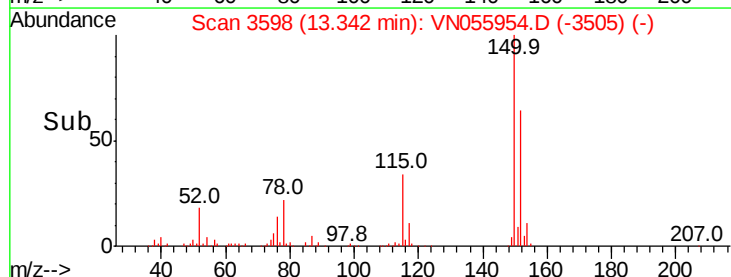
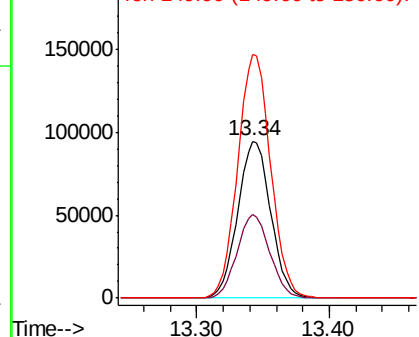
152 100

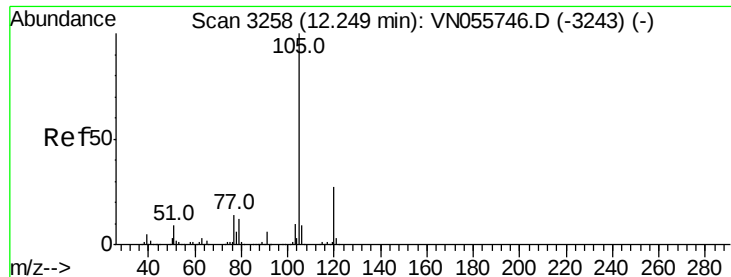
115 53.1 27.0 81.0

150 155.3 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: 12.40 min Scan# 3305

Delta R.T. 0.15 min

Lab File: VN055954.D

Acq: 3 Jun 2019 12:09

Instrument :

MSVOA_N

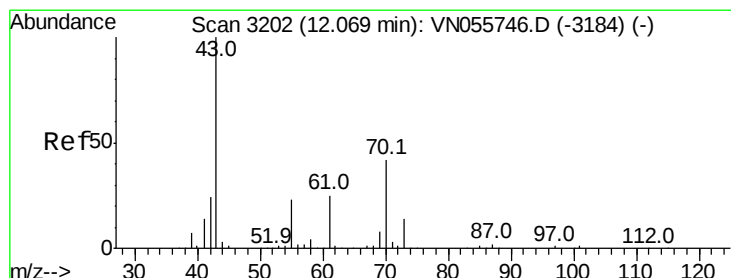
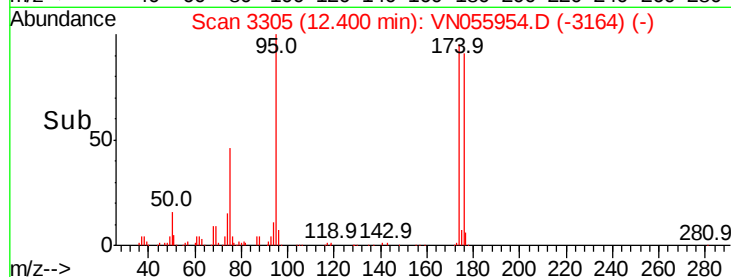
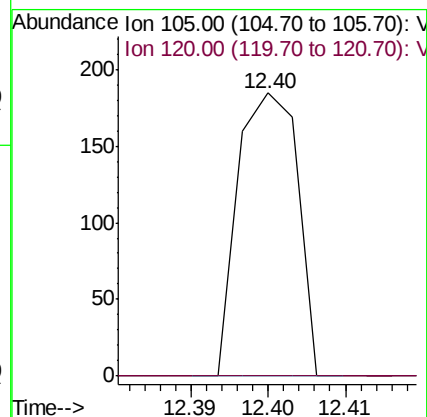
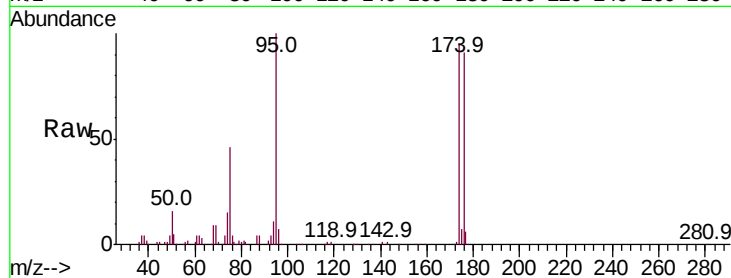
ClientSampled :

Tot Ion: 105 Resp: 99

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.06 min Scan# 3199

Delta R.T. -0.01 min

Lab File: VN055954.D

Acq: 3 Jun 2019 12:09

Tgt Ion: 43 Resp: 30

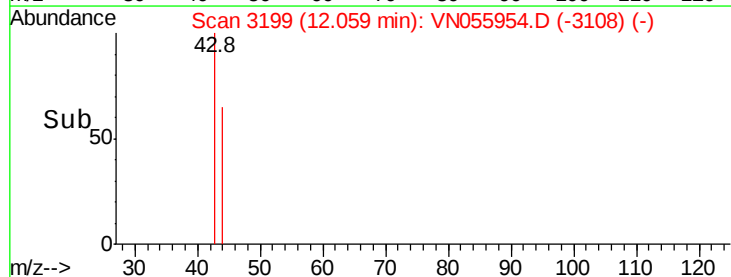
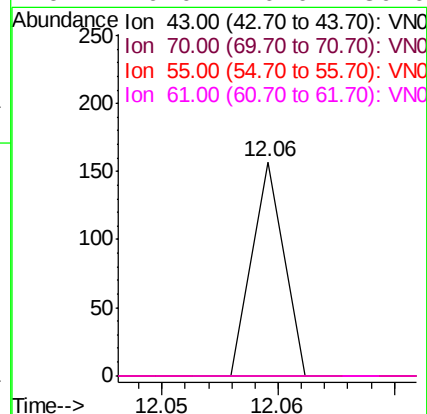
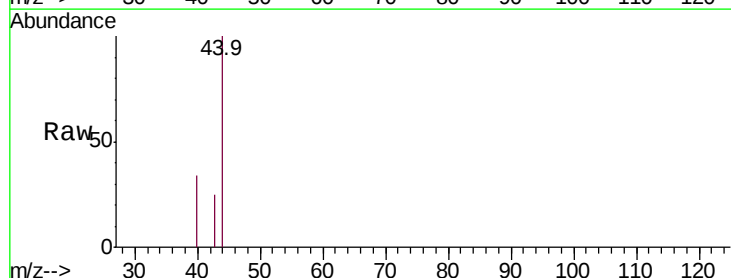
Ion Ratio Lower Upper

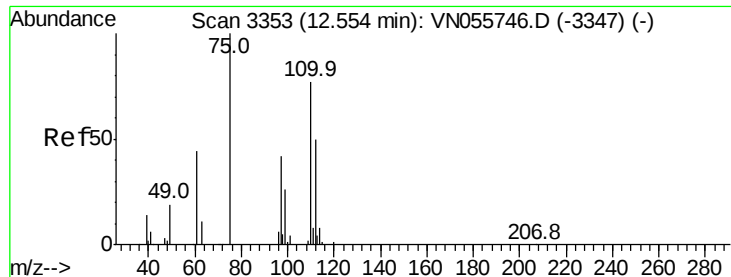
43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#





#76

1,2,3-Trichloropropane

Concen: 34.136 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055954.D

Acq: 3 Jun 2019 12:09

Instrument :

MSVOA_N

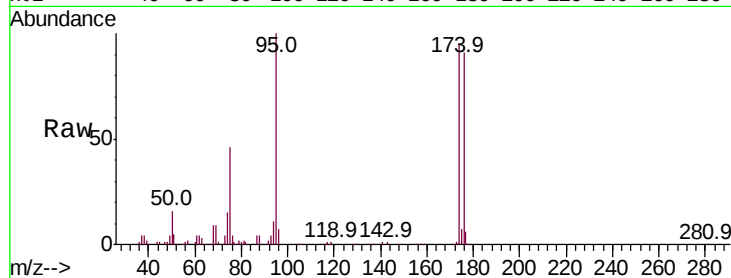
ClientSampled :

Tot Ion: 75 Resp: 98775

Ion Ratio Lower Upper

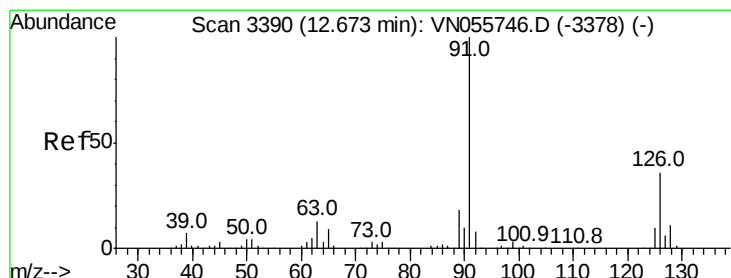
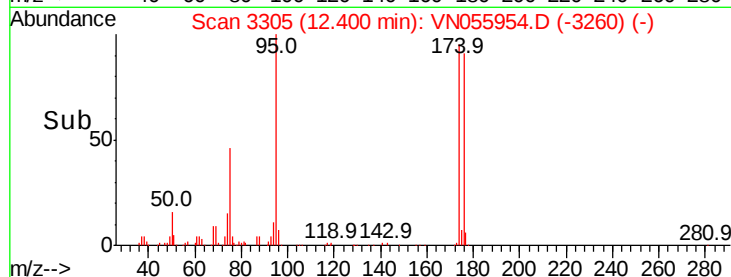
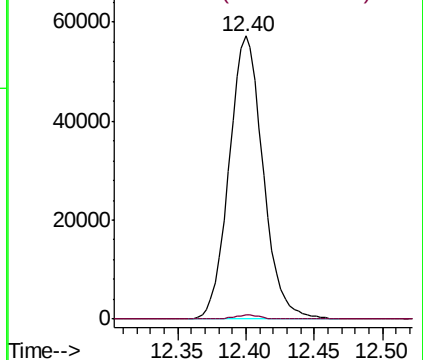
75 100

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: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN055954.D

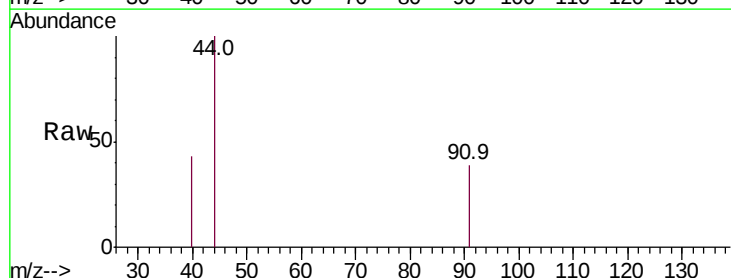
Acq: 3 Jun 2019 12:09

Tgt Ion: 91 Resp: 191

Ion Ratio Lower Upper

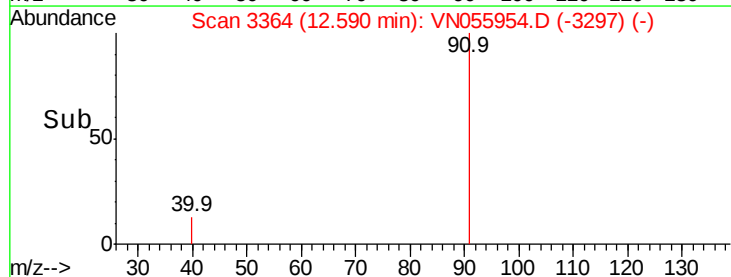
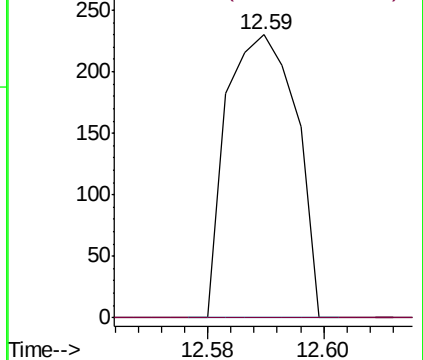
91 100

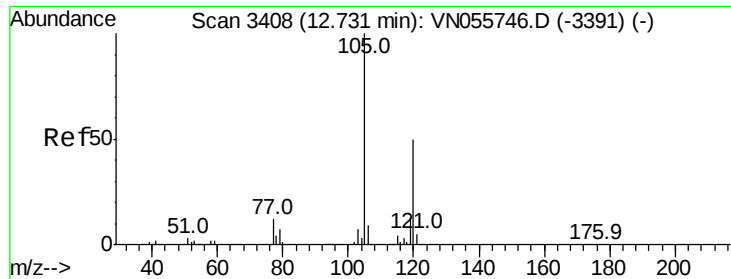
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

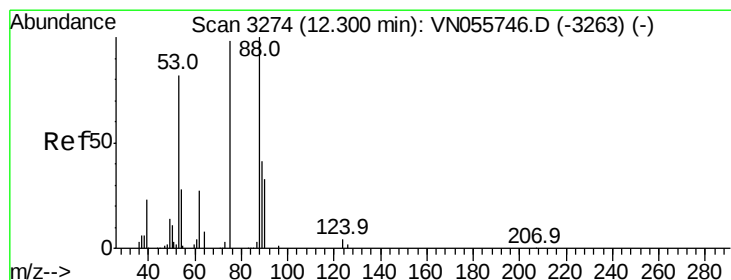
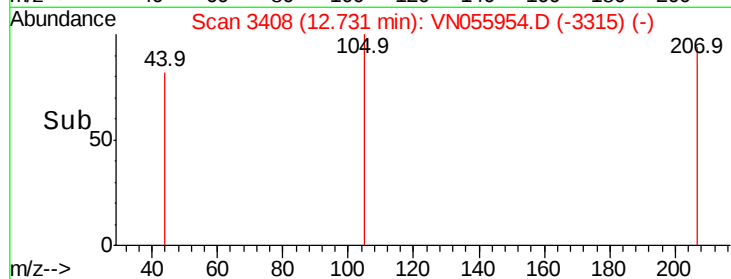
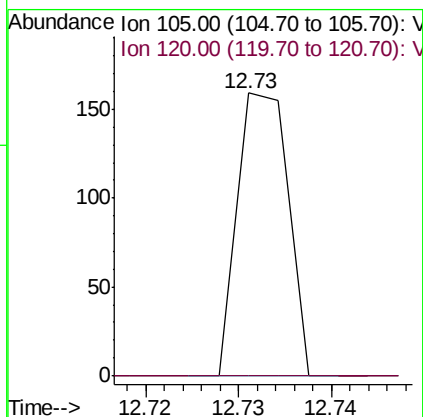
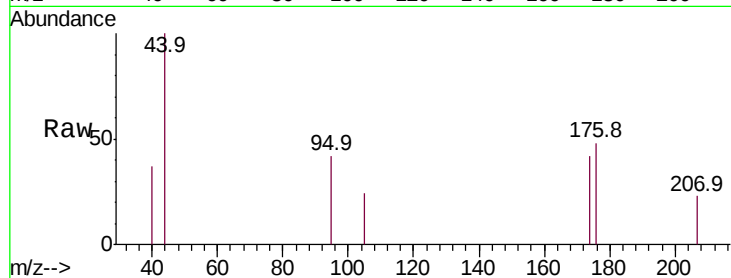




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN055954.D
 Acq: 3 Jun 2019 12:09

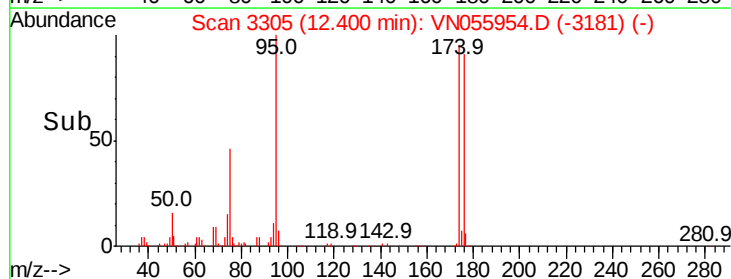
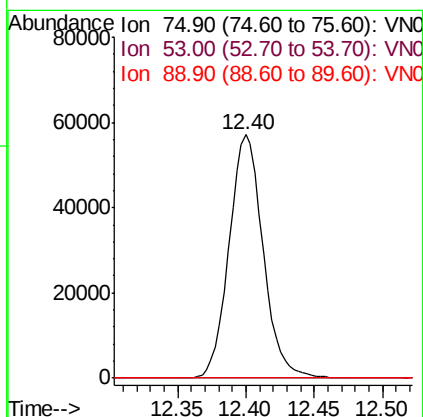
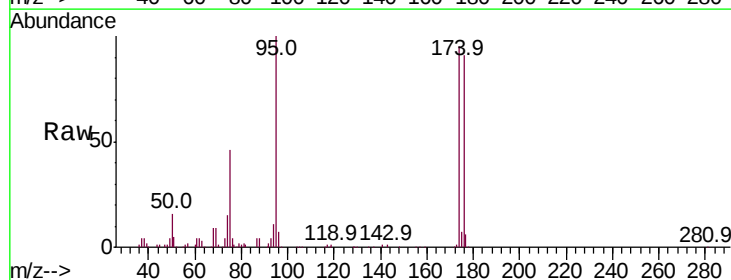
Instrument :
 MSVOA_N
 ClientSampleId :

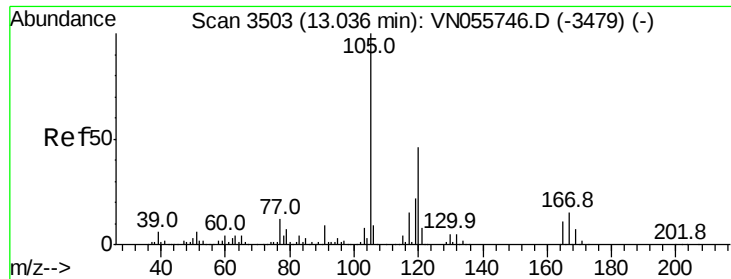
Tot Ion:105 Resp: 61
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.7 74.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 81.401 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055954.D
 Acq: 3 Jun 2019 12:09

Tgt Ion: 75 Resp: 98775
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.1 102.1#
 89 0.0 36.9 55.3#

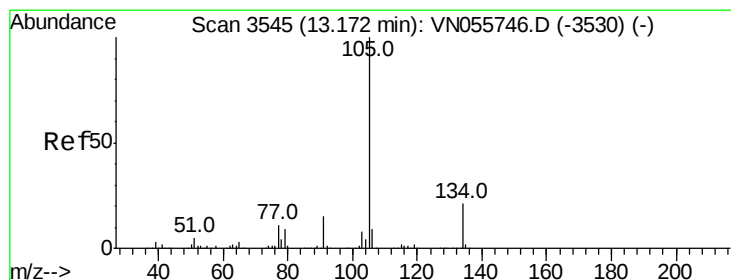
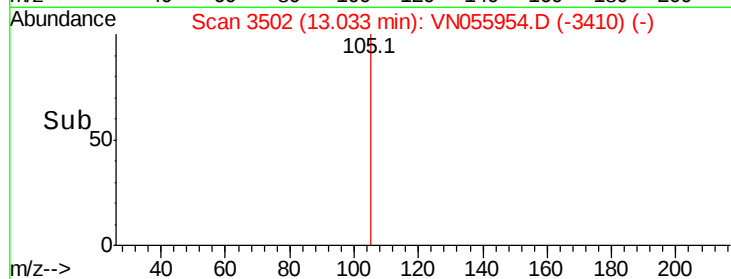
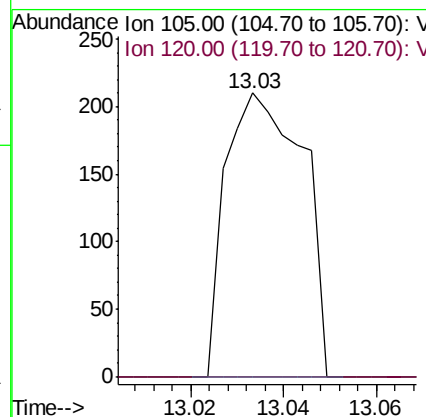
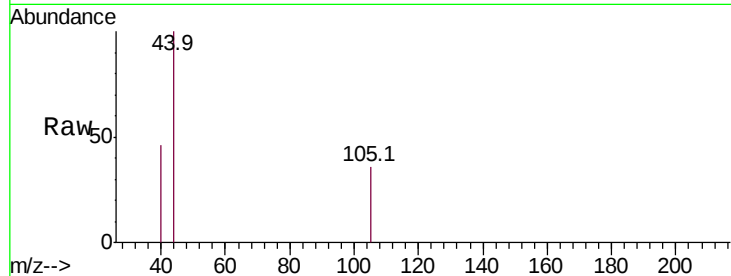




#84
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.03 min Scan# 3502
Delta R.T. -0.00 min
Lab File: VN055954.D
Acq: 3 Jun 2019 12:09

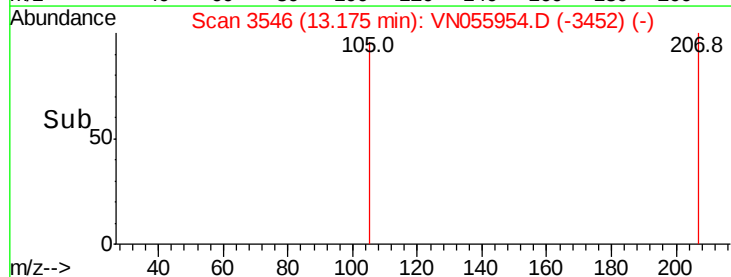
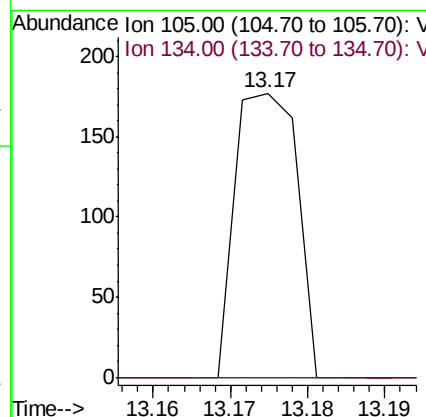
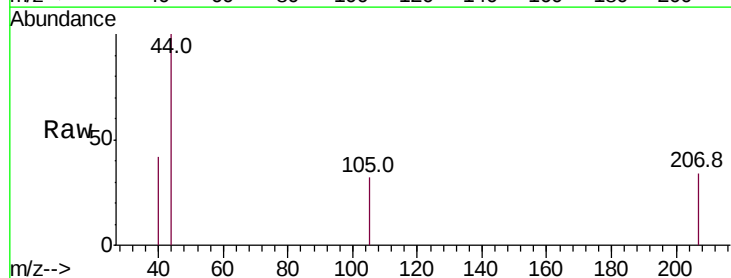
Instrument :
MSVOA_N
ClientSampleId :

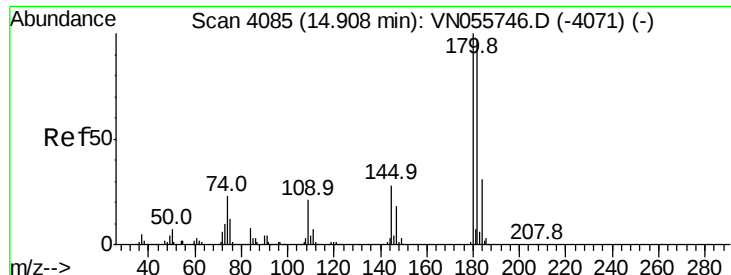
Tot Ion:105 Resp: 243
Ion Ratio Lower Upper
105 100
120 0.0 23.0 69.0#



#85
sec-Butylbenzene
Concen: Below Cal
RT: 13.17 min Scan# 3546
Delta R.T. 0.00 min
Lab File: VN055954.D
Acq: 3 Jun 2019 12:09

Tgt Ion:105 Resp: 99
Ion Ratio Lower Upper
105 100
134 0.0 10.4 31.2#





#93

1,2,4-Trichlorobenzene

Concen: 3.665 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN055954.D

Acq: 3 Jun 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:180 Resp: 96

Ion Ratio Lower Upper

180 100

182 63.5 48.3 144.9

145 0.0 14.0 41.9#

