

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053119\
 Data File : VN055909.D
 Acq On : 31 May 2019 10:57
 Operator : JC/SP
 Sample : VN0531WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531WBL01

Quant Time: May 31 18:04:42 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	362219	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	541252	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	492809	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	157449	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	182094	48.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.36%	
35) Dibromofluoromethane	7.59	113	158173	46.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.44%	
50) Toluene-d8	10.09	98	647750	49.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.70%	
62) 4-Bromofluorobenzene	12.40	95	204373	45.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.82%	

Target Compounds

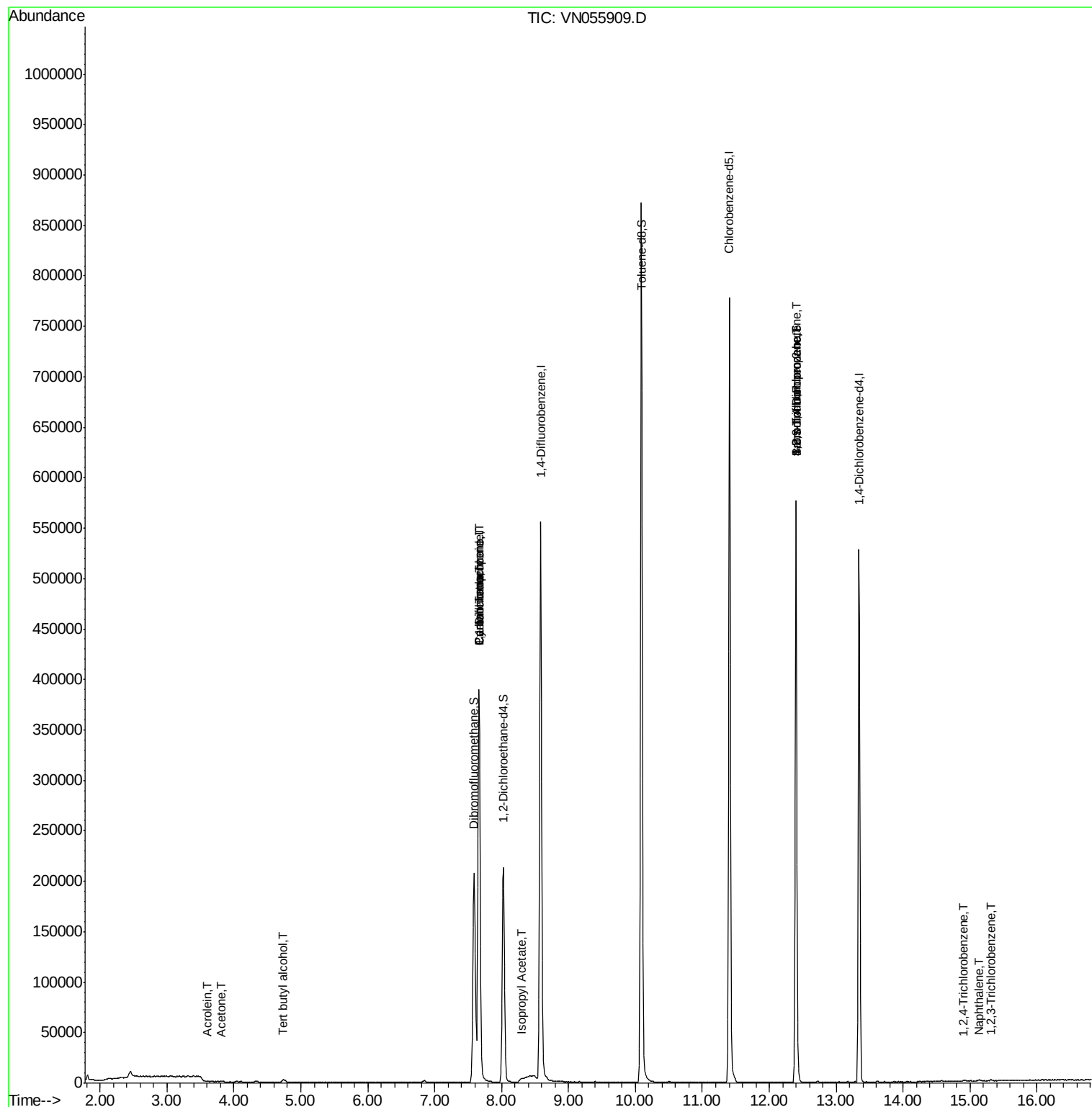
						Qvalue
11) Tert butyl alcohol	4.73	59	2220	3.106	ug/l #	74
13) Acrolein	3.61	56	171	0.334	ug/l #	62
16) Acetone	3.81	43	476	0.289	ug/l #	41
18) Methyl Acetate	4.33	43	2593	Below Cal	#	74
31) Cyclohexane	7.66	56	5416	0.965	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	22032	4.671	ug/l #	48
38) Carbon Tetrachloride	7.66	117	30153	6.137	ug/l #	15
43) Isopropyl Acetate	8.29	43	3853	0.503	ug/l #	53
71) Bromoform	12.40	173	1304	0.389	ug/l #	1
73) Isopropylbenzene	12.26	105	282	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	94694	33.915	ug/l #	100
79) 2-Chlorotoluene	12.67	91	102	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	278	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	94694	80.921	ug/l #	15
83) tert-Butylbenzene	12.99	119	101	Below Cal	#	28
84) 1,2,4-Trimethylbenzene	13.04	105	418	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	389	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.90	180	625	3.827	ug/l #	69
95) Naphthalene	15.14	128	1554	0.213	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.32	180	787	0.280	ug/l #	83

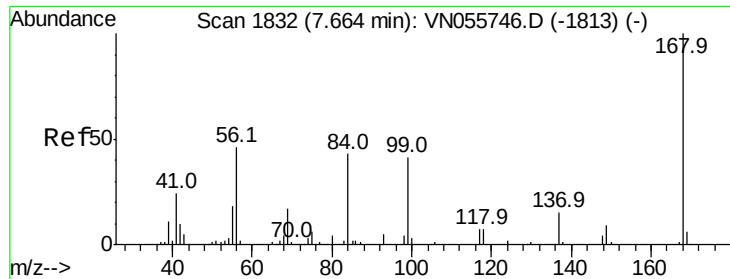
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055909.D

Acq: 31 May 2019 10:57

Instrument :

MSVOA_N

ClientSampleId :

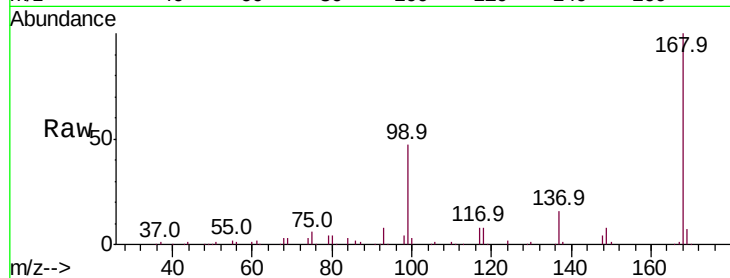
VN0531WBL01

Tot Ion:168 Resp: 362219

Ion Ratio Lower Upper

168 100

99 46.7 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055746.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055746.D (-1813) (-)

7.66

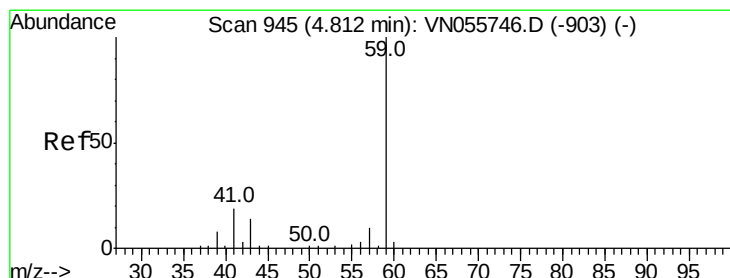
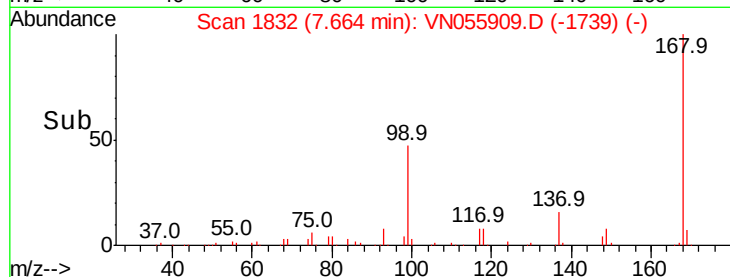
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 3.106 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.08 min

Lab File: VN055909.D

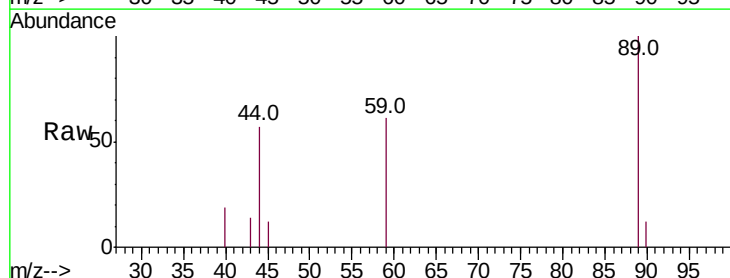
Acq: 31 May 2019 10:57

Tgt Ion: 59 Resp: 2220

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055746.D (-903) (-)

Ion 57.00 (56.70 to 57.70): VN055746.D (-903) (-)

4.73

1000

800

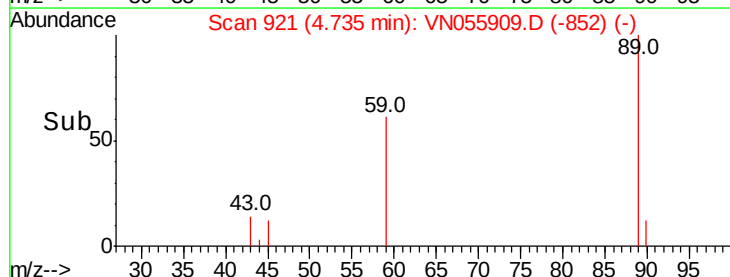
600

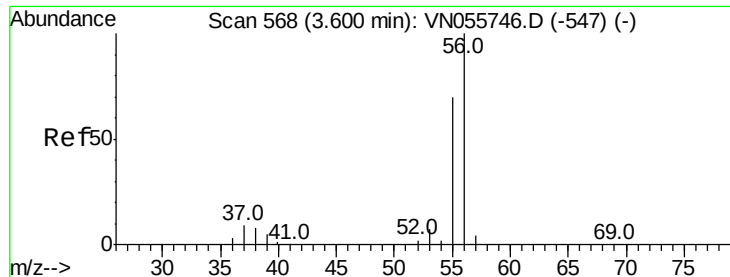
400

200

0

Time--> 4.70 4.75





#13

Acrolein

Concen: 0.334 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.01 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

Instrument :

MSVOA_N

ClientSampleId :

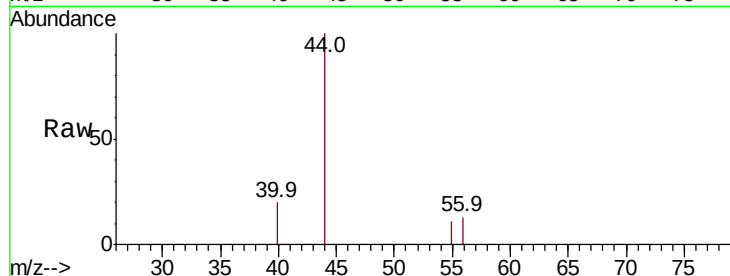
VN0531WBL01

Tot Ion: 56 Resp: 171

Ion Ratio Lower Upper

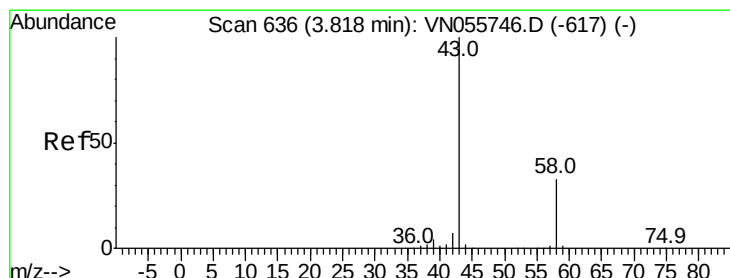
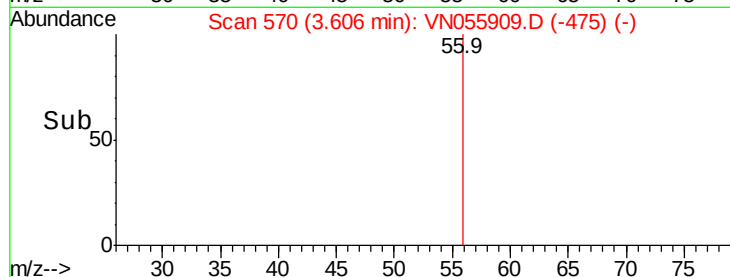
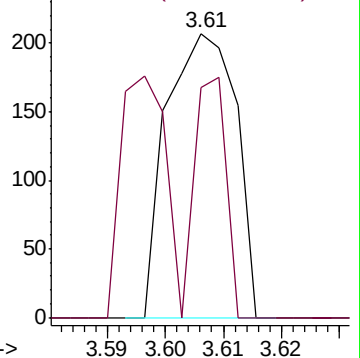
56 100

55 38.6 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 0.289 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.01 min

Lab File: VN055909.D

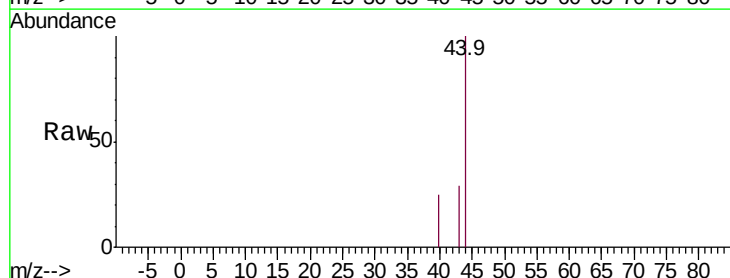
Acq: 31 May 2019 10:57

Tgt Ion: 43 Resp: 476

Ion Ratio Lower Upper

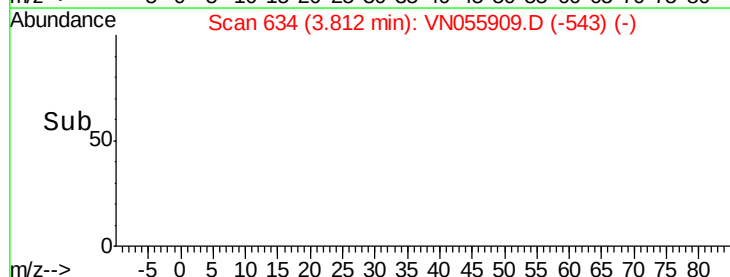
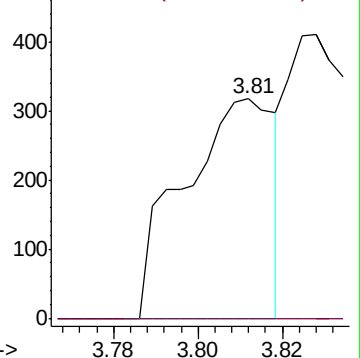
43 100

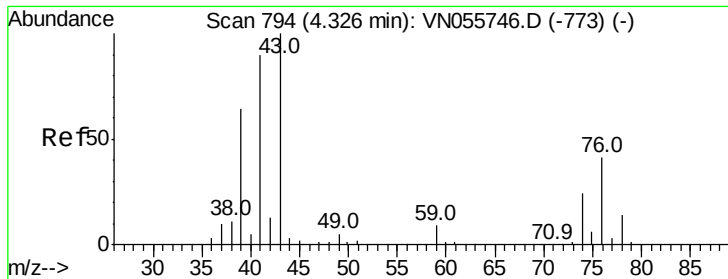
58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#18

Methvl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

Instrument :

MSVOA_N

ClientSampleId :

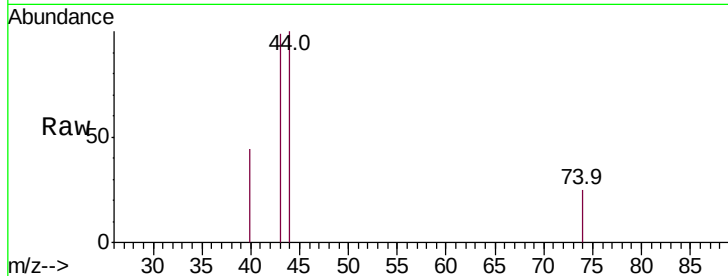
VN0531WBL01

Tot Ion: 43 Resp: 2593

Ion Ratio Lower Upper

43 100

74 11.1 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

800

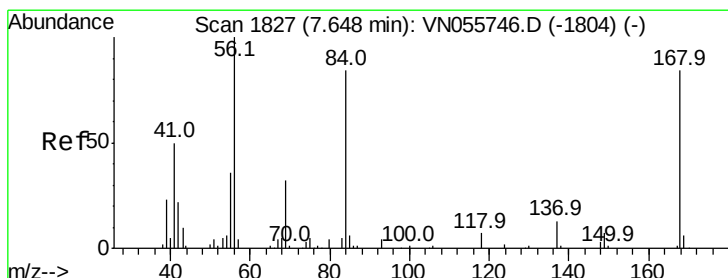
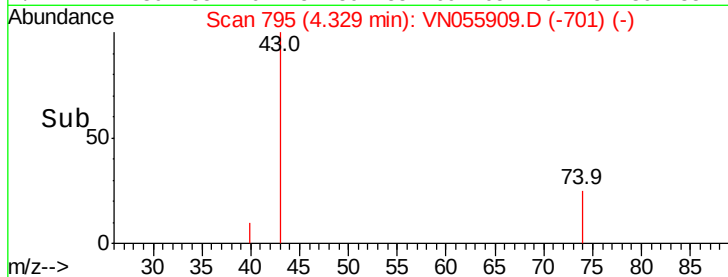
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 0.965 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

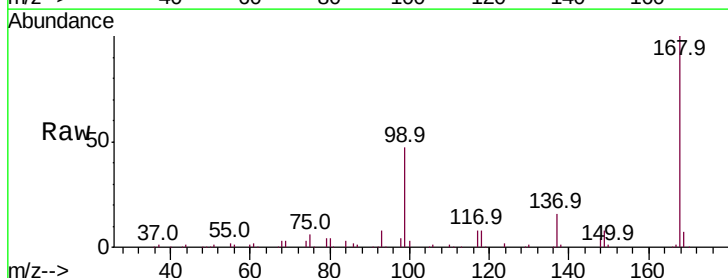
Tgt Ion: 56 Resp: 5416

Ion Ratio Lower Upper

56 100

69 208.3 25.6 38.4#

84 172.5 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

6000

5000

4000

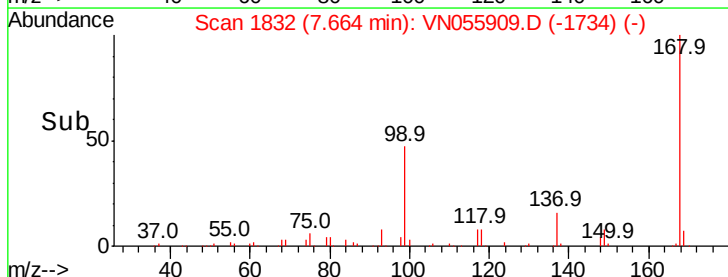
3000

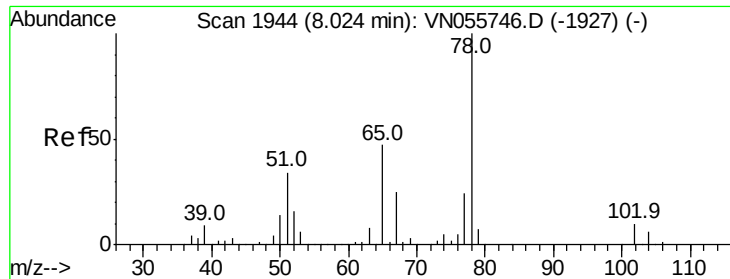
2000

1000

0

Time-->

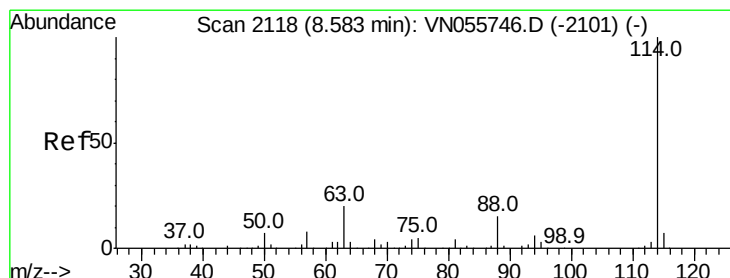
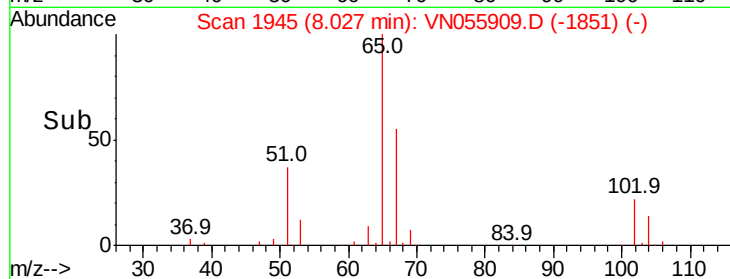
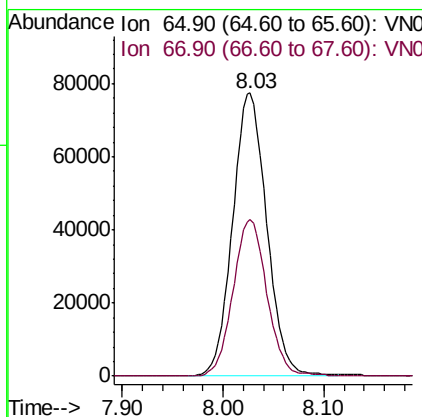
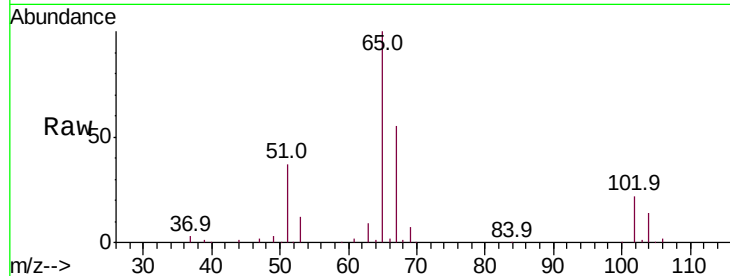




#33
 1,2-Dichloroethane-d4
 Concen: 48.679 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055909.D
 Acq: 31 May 2019 10:57

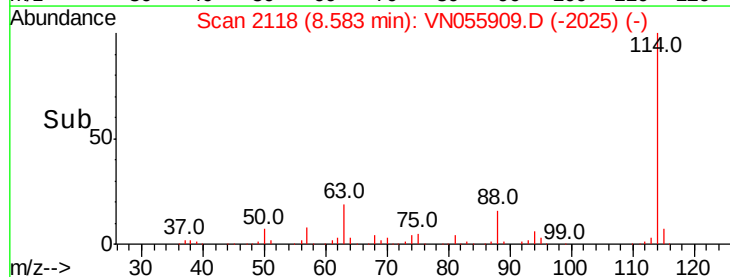
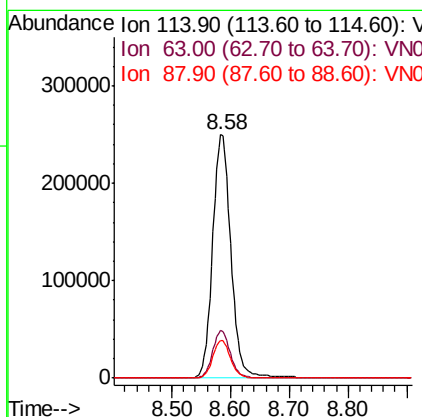
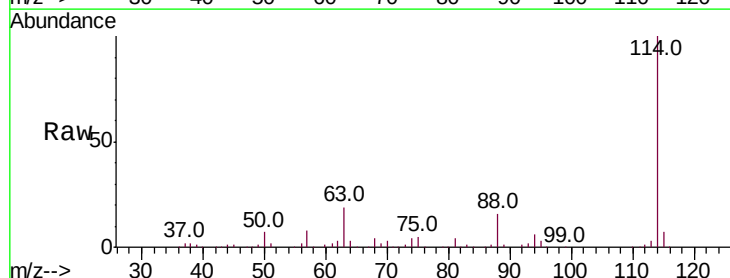
Instrument :
 MSVOA_N
 ClientSampled :
 VN0531WBL01

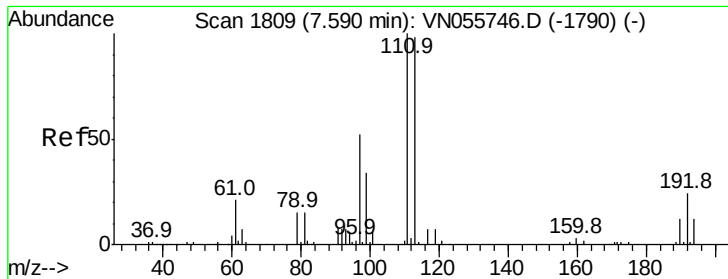
Tot Ion: 65 Resp: 182094
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055909.D
 Acq: 31 May 2019 10:57

Tgt Ion: 114 Resp: 541252
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.2
 88 15.7 0.0 31.0





#35

Dibromofluoromethane

Concen: 46.223 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

Instrument :

MSVOA_N

ClientSampled :

VN0531WBL01

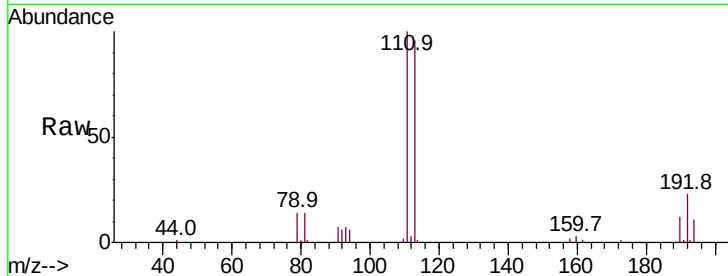
Tot Ion:113 Resp: 158173

Ion Ratio Lower Upper

113 100

111 104.1 81.9 122.9

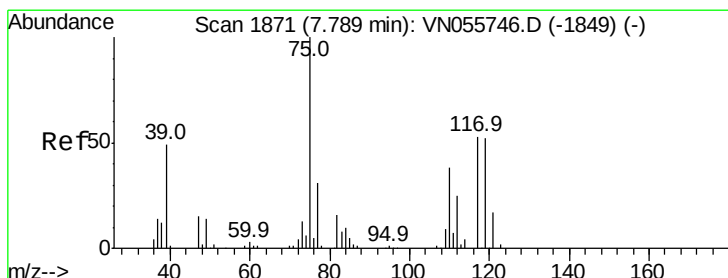
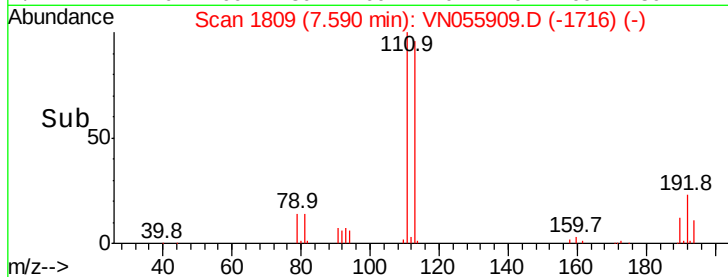
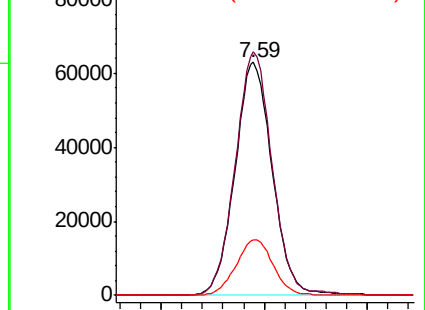
192 23.8 19.5 29.3



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: 4.671 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

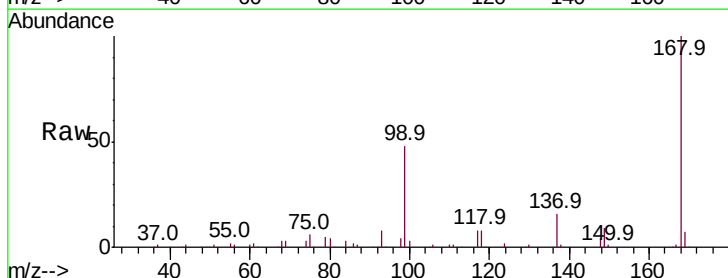
Tgt Ion: 75 Resp: 22032

Ion Ratio Lower Upper

75 100

110 8.6 19.0 57.0#

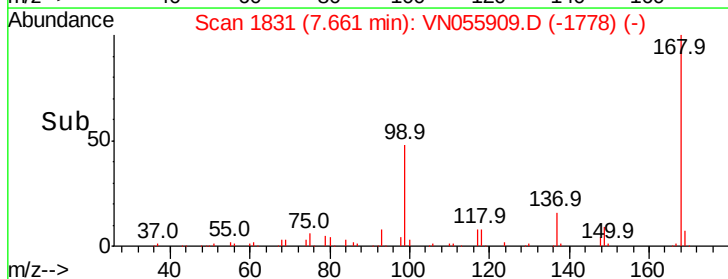
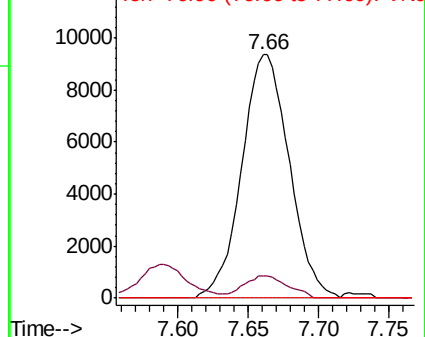
77 0.0 25.1 37.7#

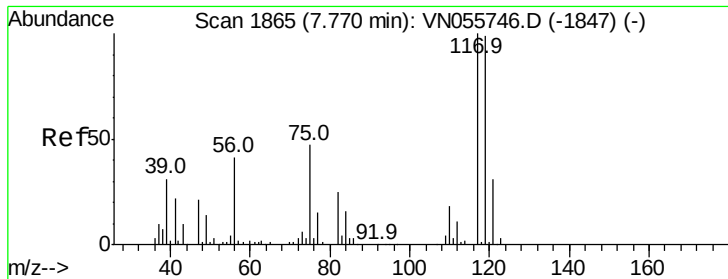


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 6.137 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

Instrument :

MSVOA_N

ClientSampled :

VN0531WBL01

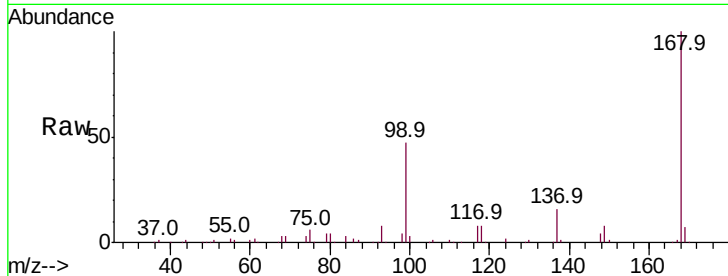
Tot Ion:117 Resp: 30153

Ion Ratio Lower Upper

117 100

119 5.7 79.0 118.6#

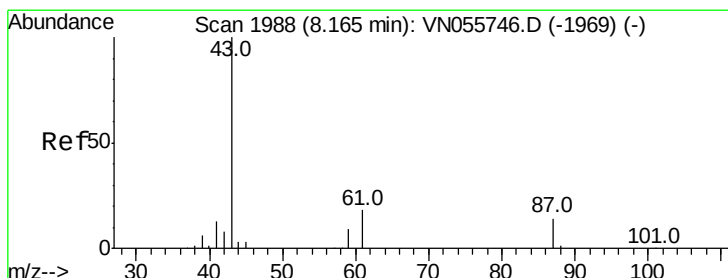
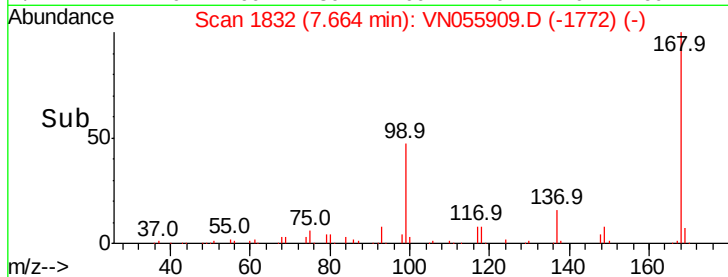
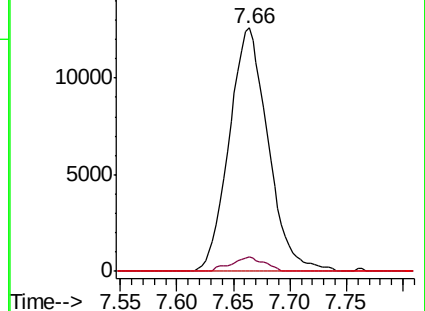
121 0.0 24.7 37.1#



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: 0.503 ug/l

RT: 8.29 min Scan# 2028

Delta R.T. 0.13 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

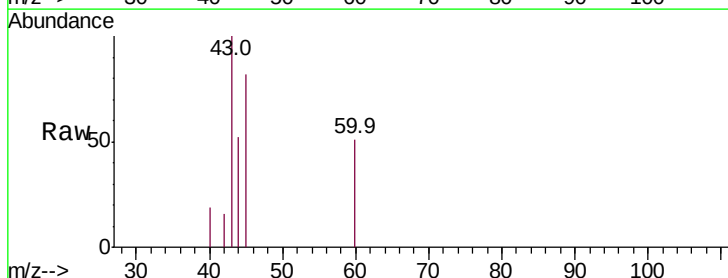
Tgt Ion: 43 Resp: 3853

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

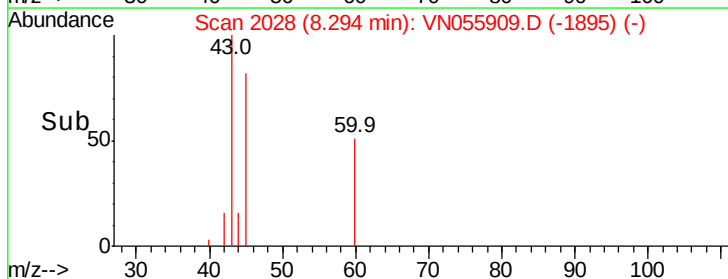
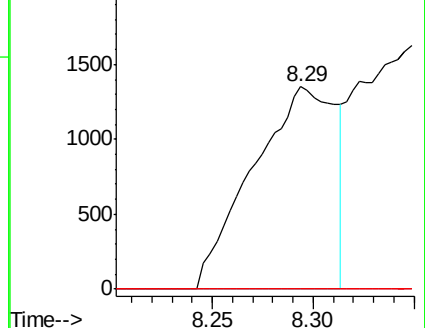
87 0.0 11.4 17.2#

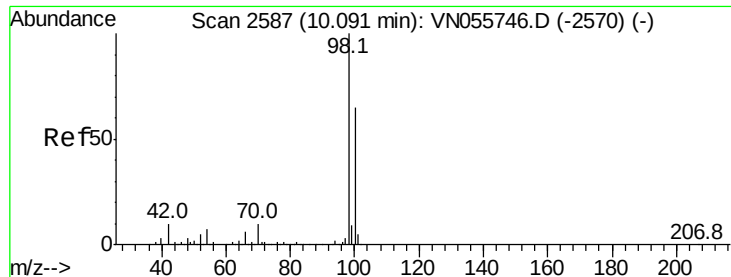


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 49.347 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

Instrument :

MSVOA_N

ClientSampleId :

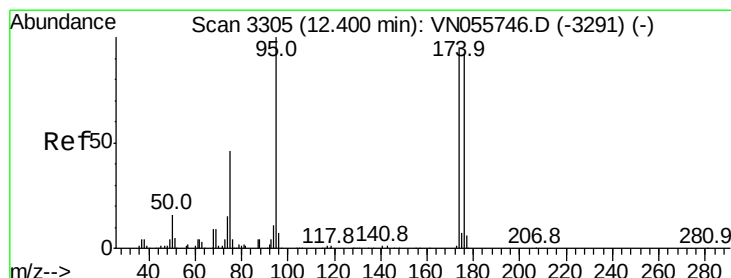
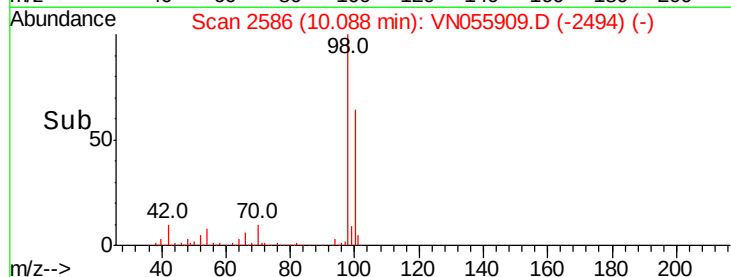
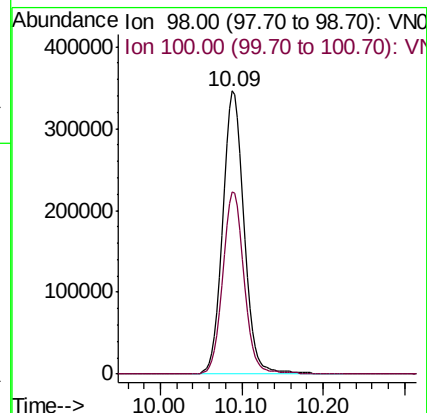
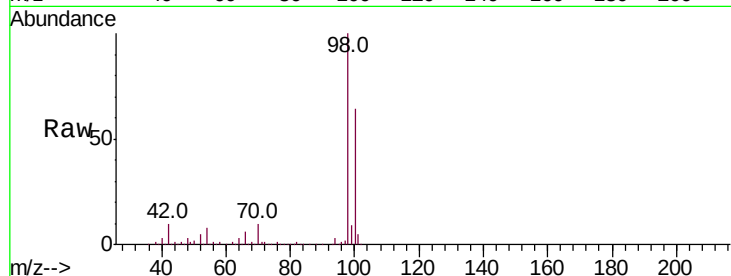
VN0531WBL01

Tot Ion: 98 Resp: 647750

Ion Ratio Lower Upper

98 100

100 64.4 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 45.407 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

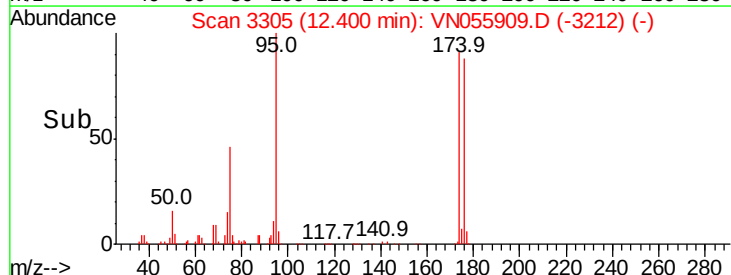
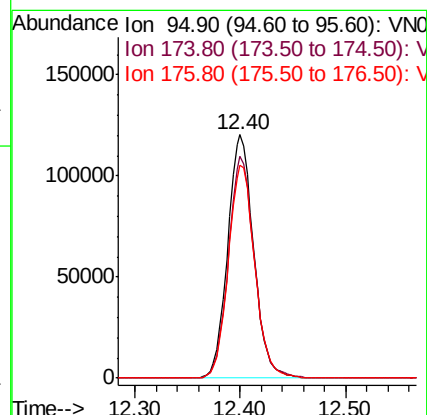
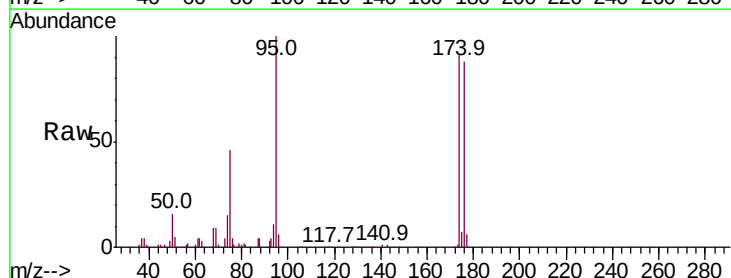
Tgt Ion: 95 Resp: 204373

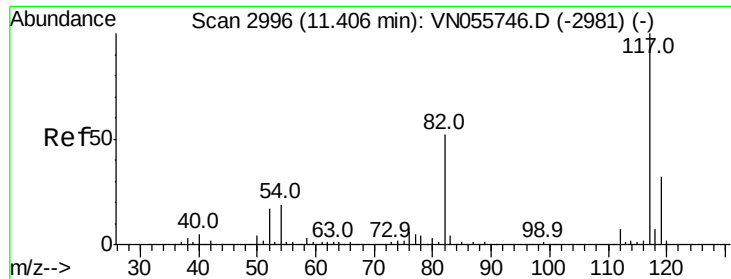
Ion Ratio Lower Upper

95 100

174 91.3 0.0 191.0

176 89.2 0.0 185.2

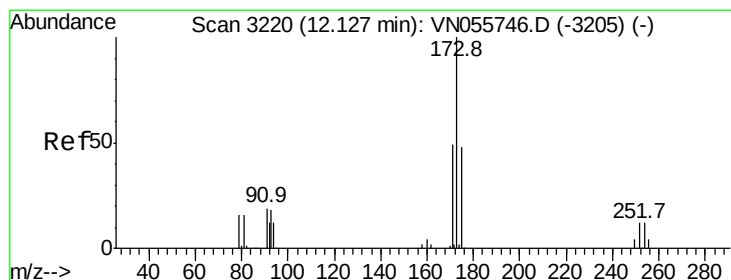
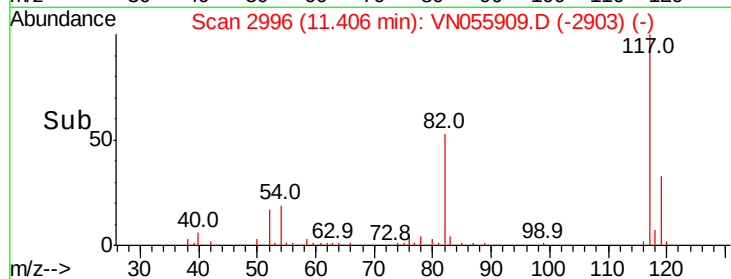
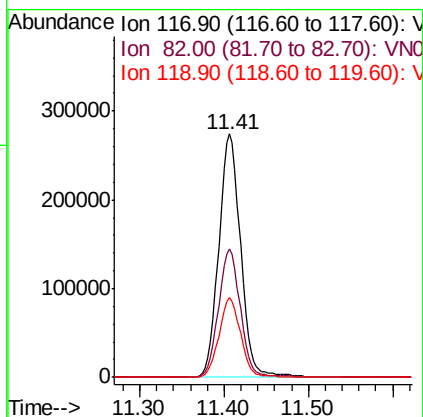
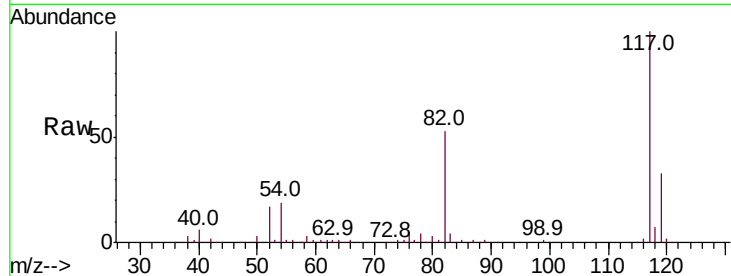




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN055909.D
 Acq: 31 May 2019 10:57

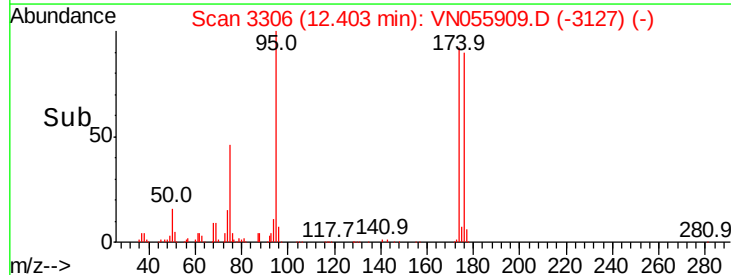
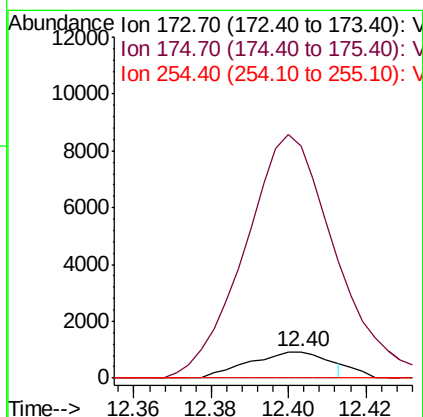
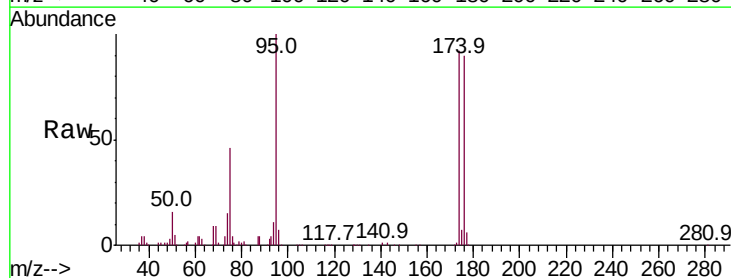
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531WBL01

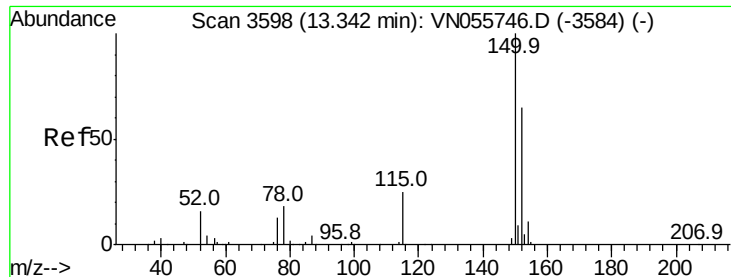
Tot Ion:117 Resp: 492809
 Ion Ratio Lower Upper
 117 100
 82 52.6 41.8 62.8
 119 32.7 25.4 38.0



#71
 Bromoform
 Concen: 0.389 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.28 min
 Lab File: VN055909.D
 Acq: 31 May 2019 10:57

Tgt Ion:173 Resp: 1304
 Ion Ratio Lower Upper
 173 100
 175 942.2 24.3 72.8#
 254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN0531WBL01

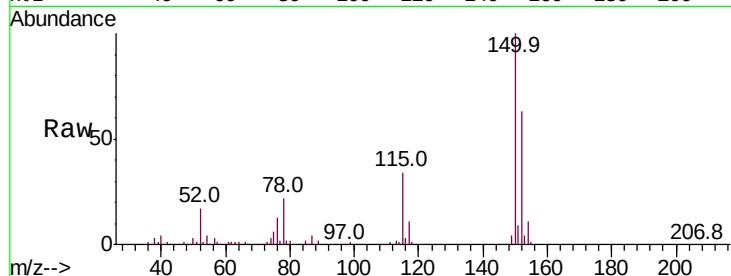
Tot Ion:152 Resp: 157449

Ion Ratio Lower Upper

152 100

115 54.6 27.0 81.0

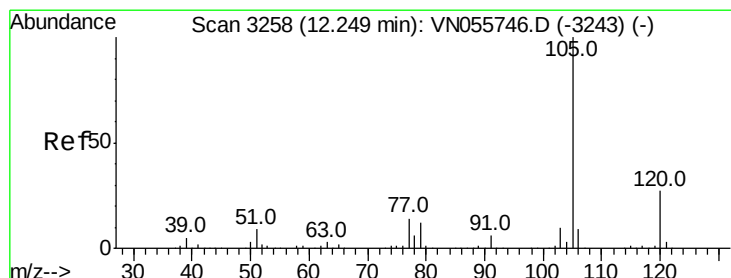
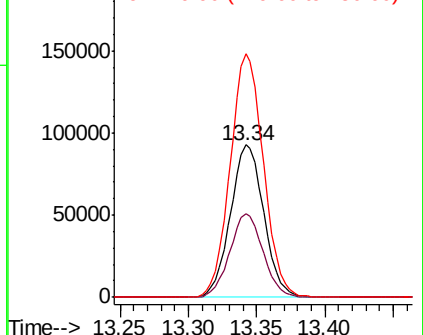
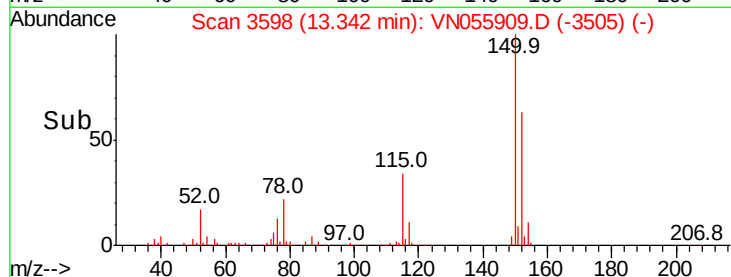
150 158.9 0.0 343.2



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: 12.26 min Scan# 3260

Delta R.T. 0.01 min

Lab File: VN055909.D

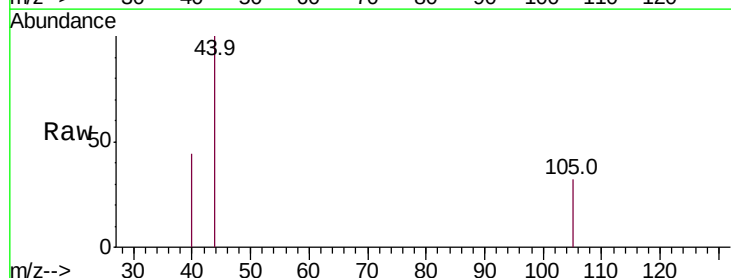
Acq: 31 May 2019 10:57

Tgt Ion:105 Resp: 282

Ion Ratio Lower Upper

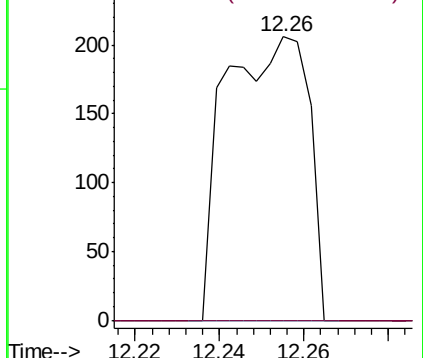
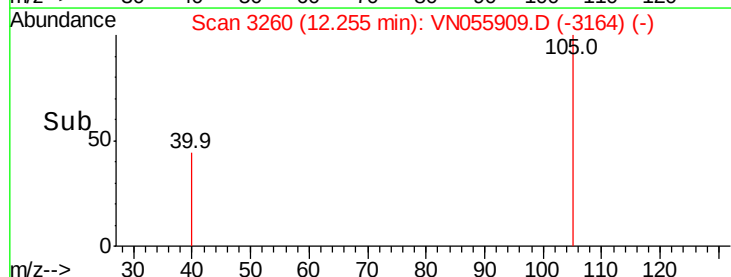
105 100

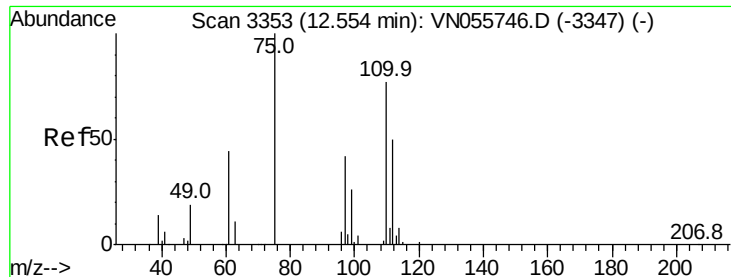
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 33.915 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

Instrument :

MSVOA_N

ClientSampled :

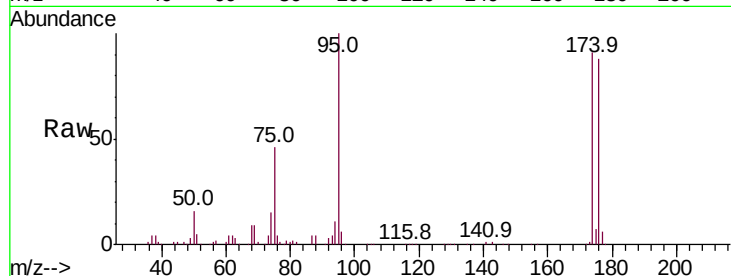
VN0531WBL01

Tot Ion: 75 Resp: 94694

Ion Ratio Lower Upper

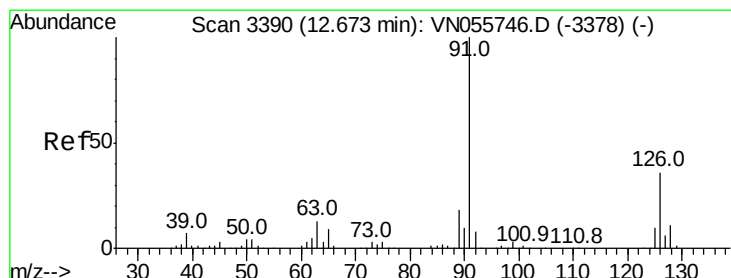
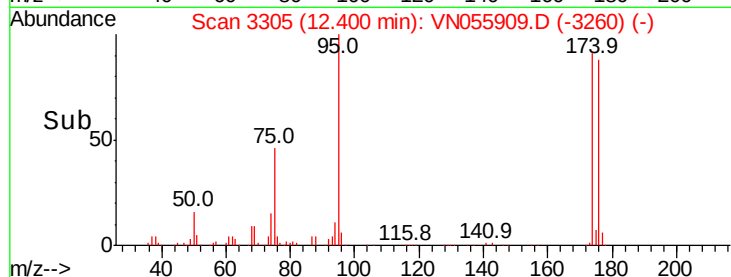
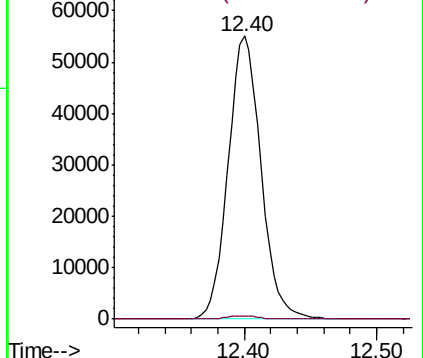
75 100

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: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN055909.D

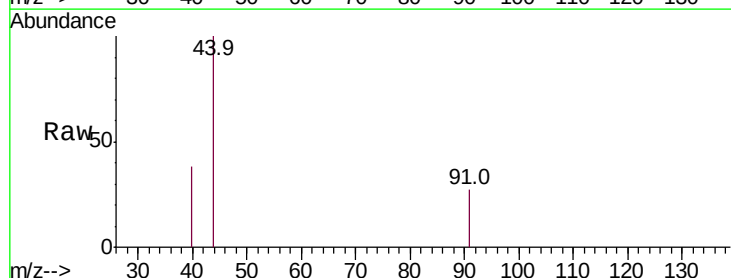
Acq: 31 May 2019 10:57

Tgt Ion: 91 Resp: 102

Ion Ratio Lower Upper

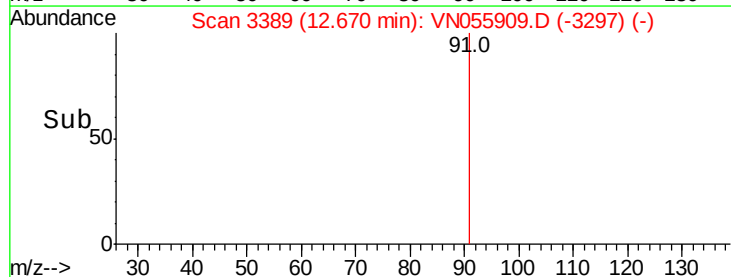
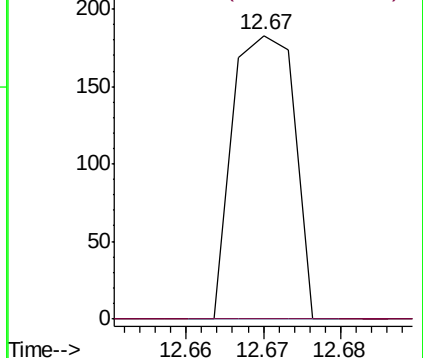
91 100

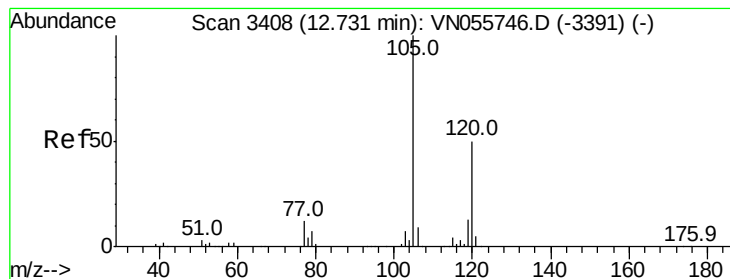
126 0.0 18.1 54.4#



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: VN055909.D

Acq: 31 May 2019 10:57

Instrument :

MSVOA_N

ClientSampleId :

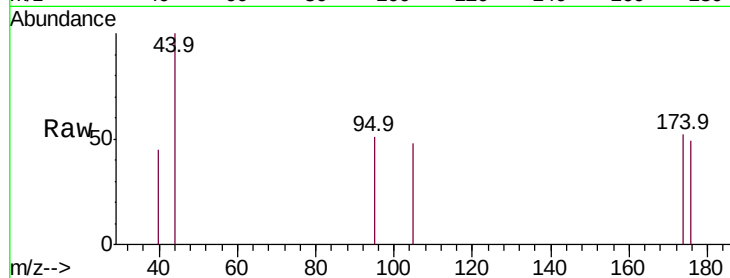
VN0531WBL01

Tot Ion:105 Resp: 278

Ion Ratio Lower Upper

105 100

120 0.0 24.7 74.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

250

200

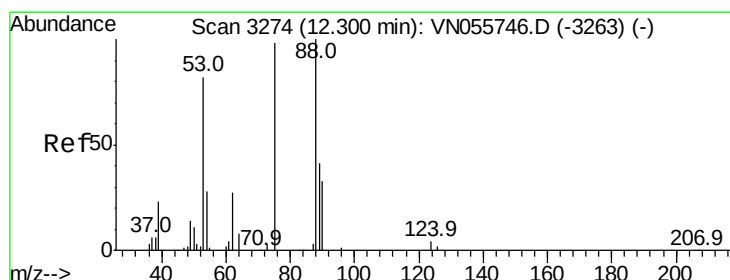
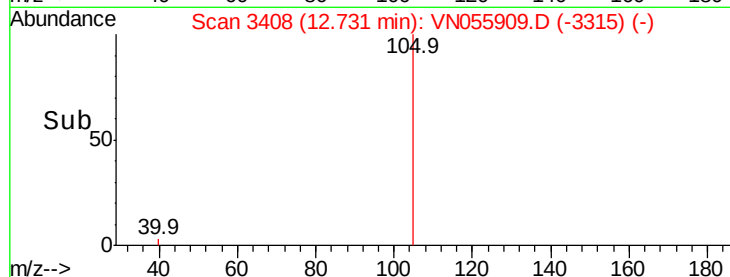
150

100

50

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 80.921 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

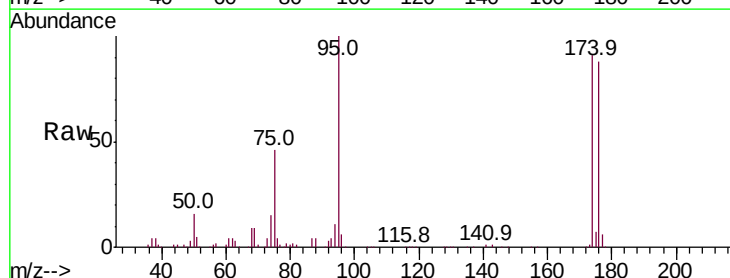
Tgt Ion: 75 Resp: 94694

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

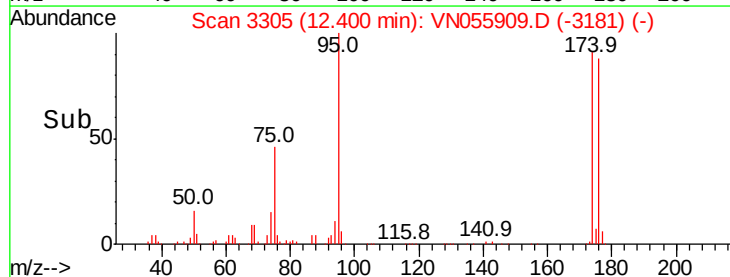
60000

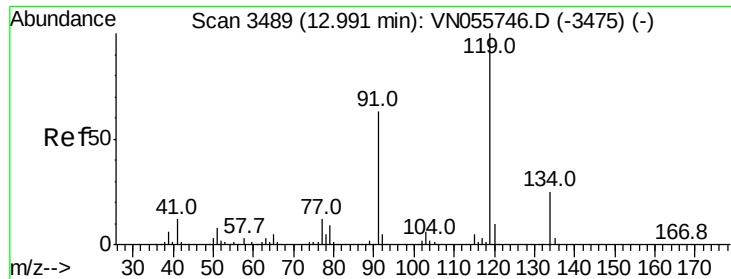
40000

20000

0

Time-->

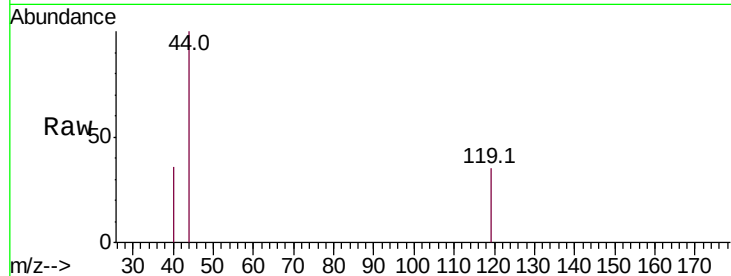




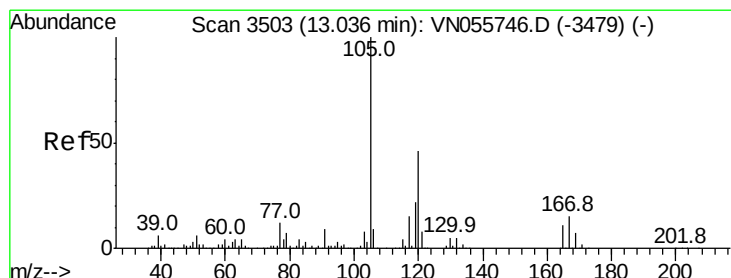
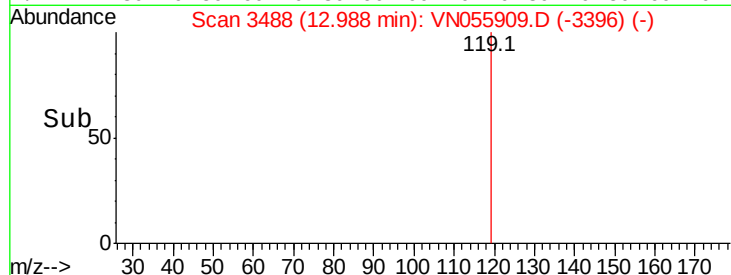
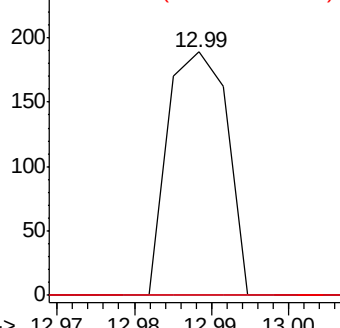
#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3488
Delta R.T. -0.00 min
Lab File: VN055909.D
Acq: 31 May 2019 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN0531WBL01

Tot Ion:119 Resp: 101
Ion Ratio Lower Upper
119 100
91 0.0 30.9 92.8#
134 0.0 13.3 39.8#

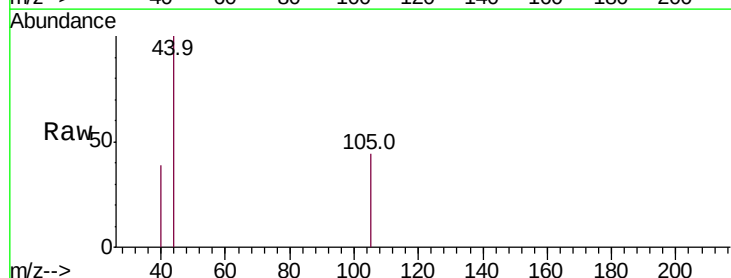


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

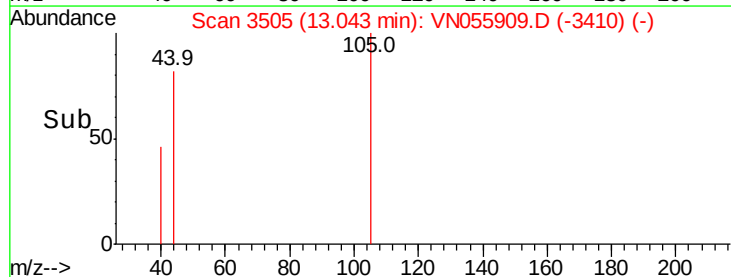
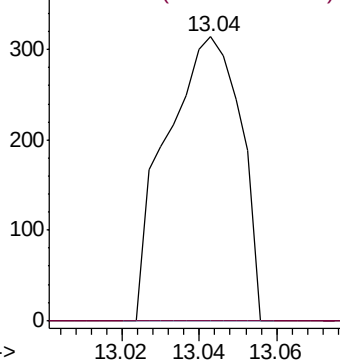


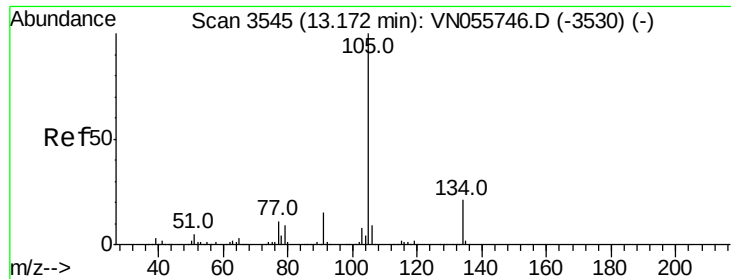
#84
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3505
Delta R.T. 0.01 min
Lab File: VN055909.D
Acq: 31 May 2019 10:57

Tgt Ion:105 Resp: 418
Ion Ratio Lower Upper
105 100
120 0.0 23.0 69.0#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

Instrument :

MSVOA_N

ClientSampled :

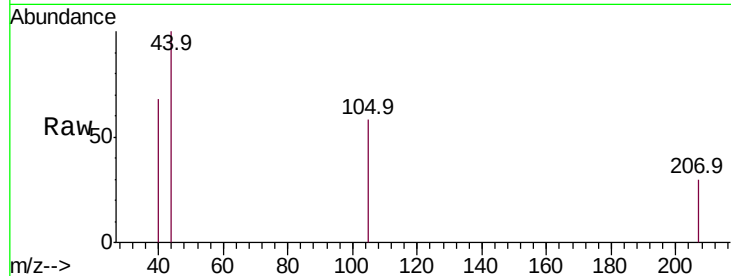
VN0531WBL01

Tot Ion:105 Resp: 389

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

400

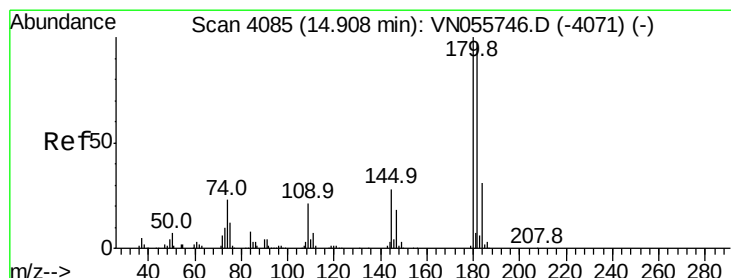
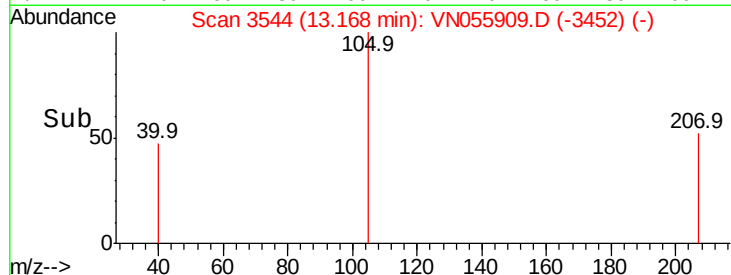
300

200

100

0

Time--> 13.14 13.16 13.18



#93

1,2,4-Trichlorobenzene

Concen: 3.827 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

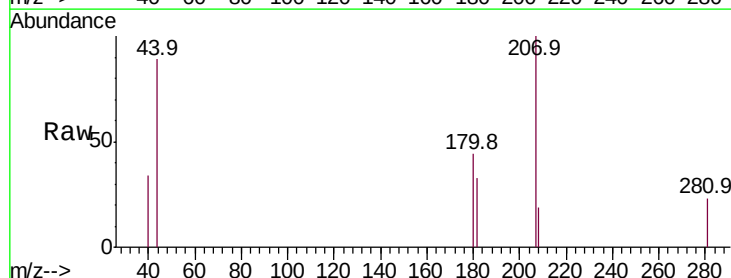
Tgt Ion:180 Resp: 625

Ion Ratio Lower Upper

180 100

182 72.8 48.3 144.9

145 0.0 14.0 41.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

500

400

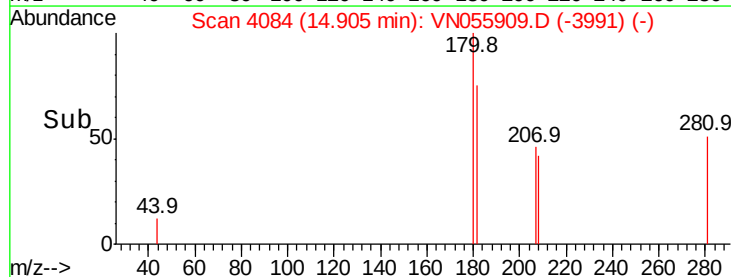
300

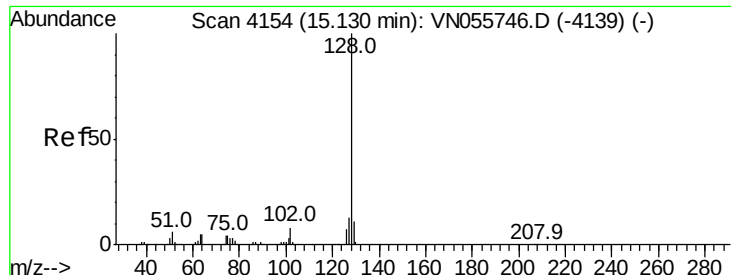
200

100

0

Time--> 14.90





#95

Naphthalene

Concen: 0.213 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN0531WBL01

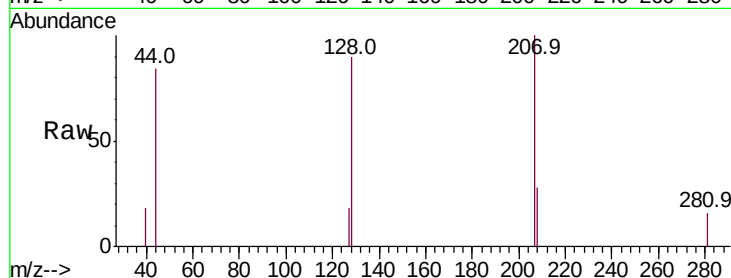
Tot Ion:128 Resp: 1554

Ion Ratio Lower Upper

128 100

127 6.5 10.3 15.5#

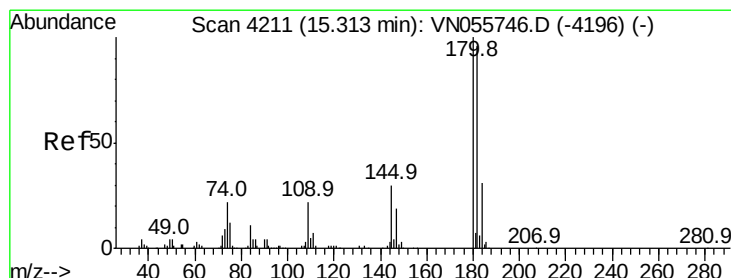
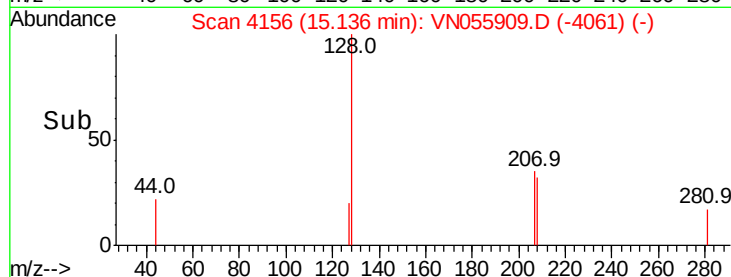
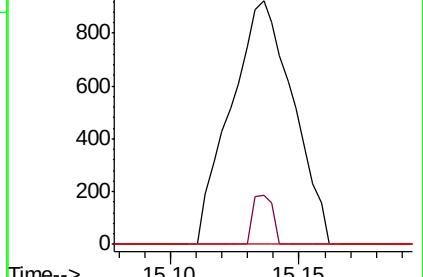
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.280 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN055909.D

Acq: 31 May 2019 10:57

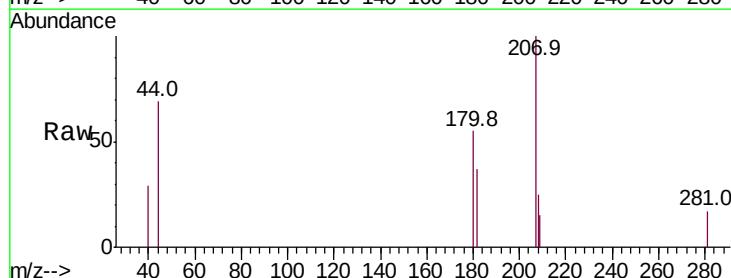
Tgt Ion:180 Resp: 787

Ion Ratio Lower Upper

180 100

182 88.2 47.9 143.7

145 3.7 14.9 44.7#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

