

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061919\
 Data File : VN056380.D
 Acq On : 19 Jun 2019 12:36
 Operator : JC/SP
 Sample : K3429-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-TB-20190617

Quant Time: Jun 20 04:47:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 04:41:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	364075	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	609452	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	594353	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	181514	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	205538	50.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.88%	
35) Dibromofluoromethane	7.59	113	177118	46.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.18%	
50) Toluene-d8	10.09	98	756392	51.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.26%	
62) 4-Bromofluorobenzene	12.40	95	244644	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	

Target Compounds

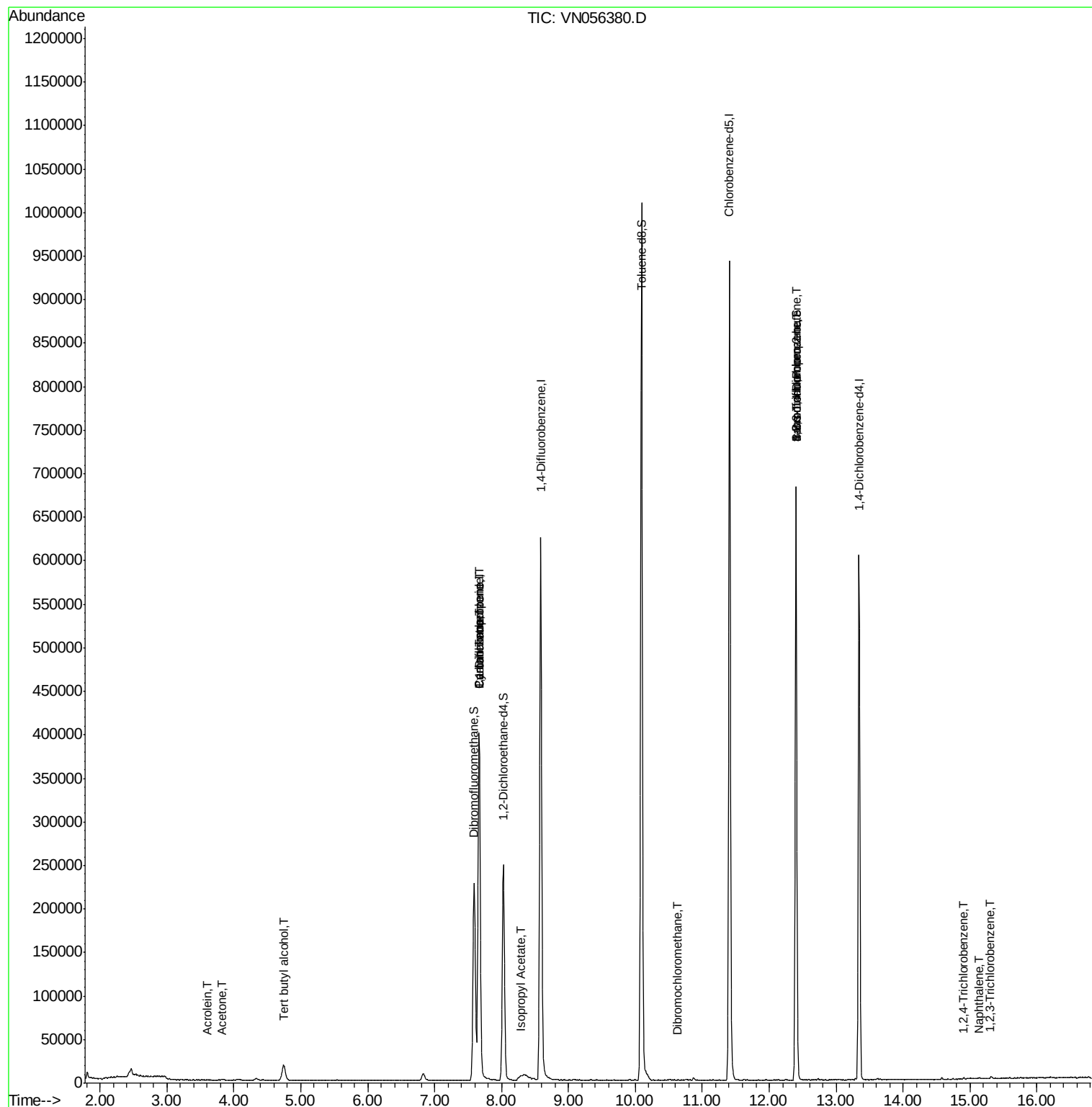
						Qvalue
11) Tert butyl alcohol	4.74	59	16406	24.140	ug/l #	74
13) Acrolein	3.61	56	262	0.457	ug/l #	14
16) Acetone	3.82	43	1028	0.509	ug/l #	87
31) Cyclohexane	7.66	56	5922	0.950	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	23873	4.450	ug/l #	49
38) Carbon Tetrachloride	7.66	117	31811	6.781	ug/l #	15
43) Isopropyl Acetate	8.28	43	4495	0.553	ug/l #	54
60) Dibromochloromethane	10.63	129	96	2.404	ug/l #	10
71) Bromoform	12.40	173	1535	3.584	ug/l #	1
73) Isopropylbenzene	12.25	105	587	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	112877	29.991	ug/l #	100
79) 2-Chlorotoluene	12.68	91	380	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.74	105	519	Below Cal		76
81) trans-1,4-Dichloro-2-buten	12.40	75	112877	106.592	ug/l #	8
83) tert-Butylbenzene	12.99	119	435	Below Cal	#	71
93) 1,2,4-Trichlorobenzene	14.91	180	786	5.834	ug/l #	86
94) Hexachlorobutadiene	15.00	225	263	Below Cal	#	57
95) Naphthalene	15.14	128	1552	5.412	ug/l #	72
96) 1,2,3-Trichlorobenzene	15.31	180	918	4.735	ug/l	88

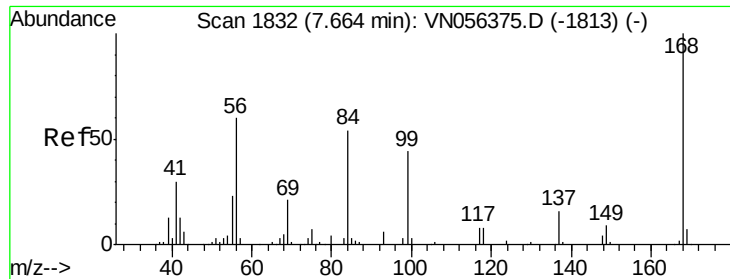
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056380.D

Acq: 19 Jun 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

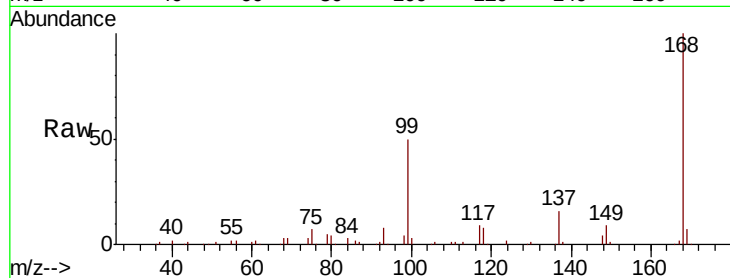
TT-TB-20190617

Tot Ion:168 Resp: 364075

Ion Ratio Lower Upper

168 100

99 50.4 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN056375.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN056375.D (-1813) (-)

7.66

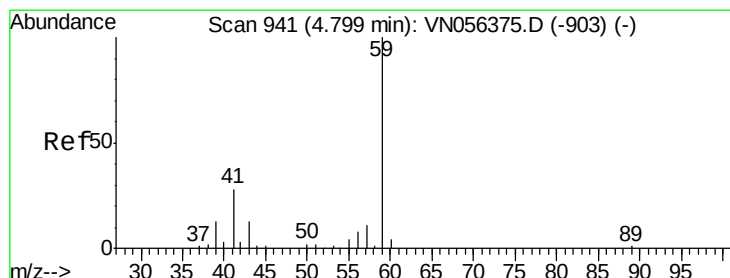
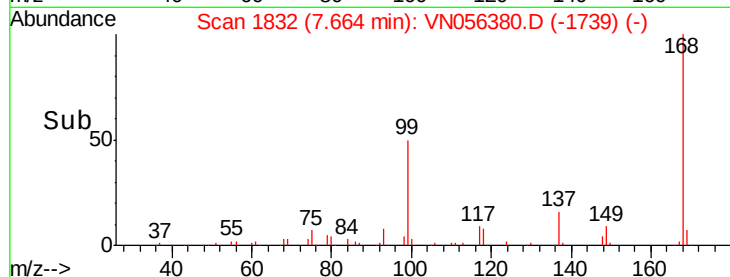
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 24.140 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.06 min

Lab File: VN056380.D

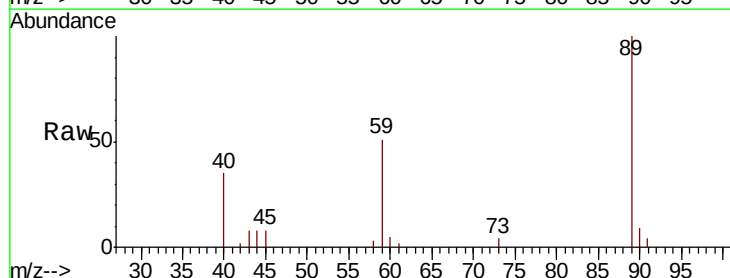
Acq: 19 Jun 2019 12:36

Tgt Ion: 59 Resp: 16406

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN056375.D (-903) (-)

Ion 57.00 (56.70 to 57.70): VN056375.D (-903) (-)

4.74

5000

4000

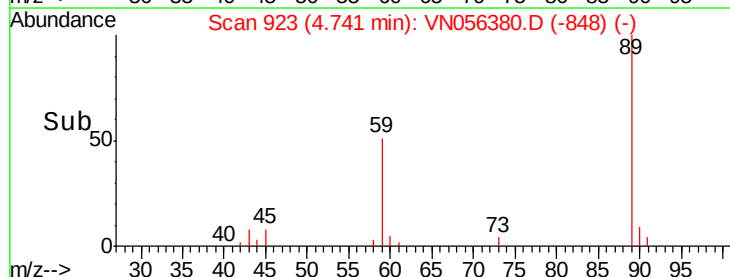
3000

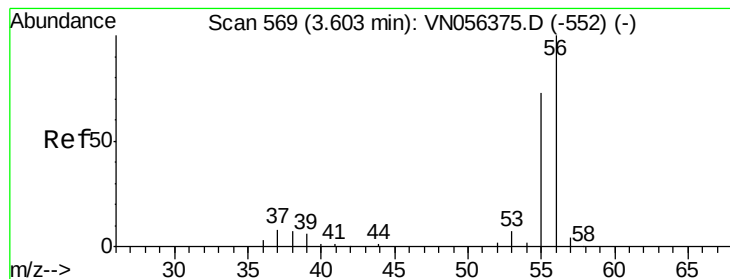
2000

1000

0

Time-->





#13

Acrolein

Concen: 0.457 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN056380.D

Acq: 19 Jun 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

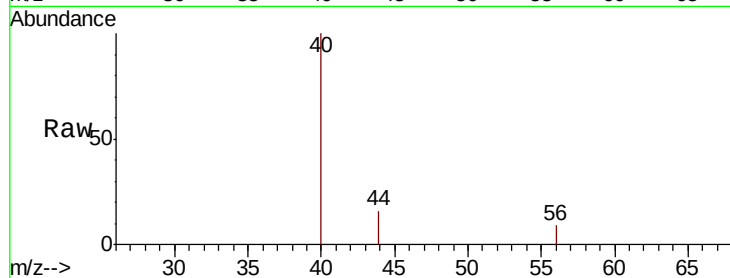
TT-TB-20190617

Tot Ion: 56 Resp: 262

Ion Ratio Lower Upper

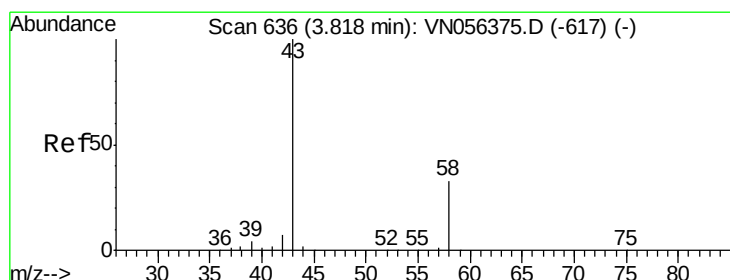
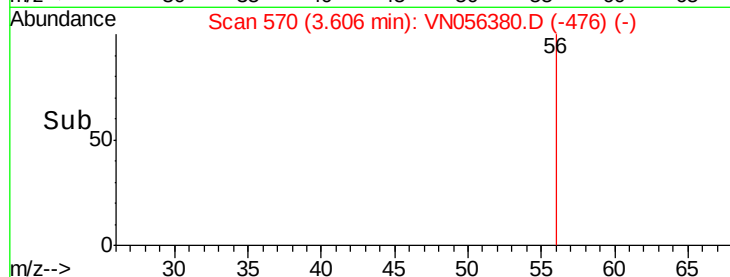
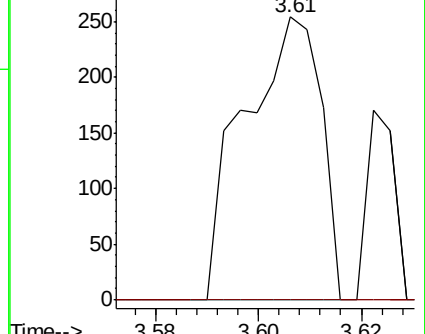
56 100

55 0.0 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 0.509 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056380.D

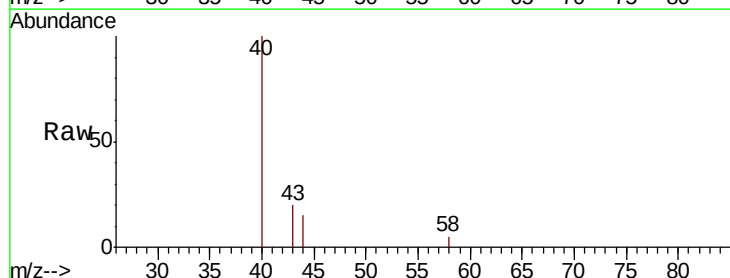
Acq: 19 Jun 2019 12:36

Tgt Ion: 43 Resp: 1028

Ion Ratio Lower Upper

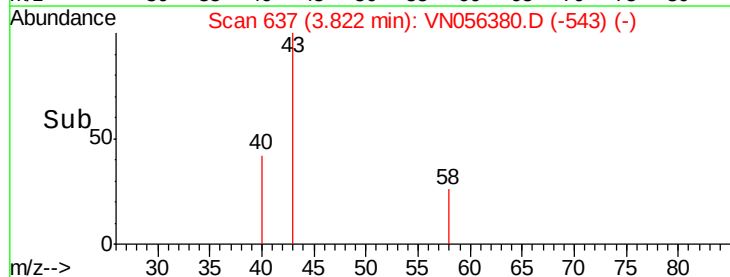
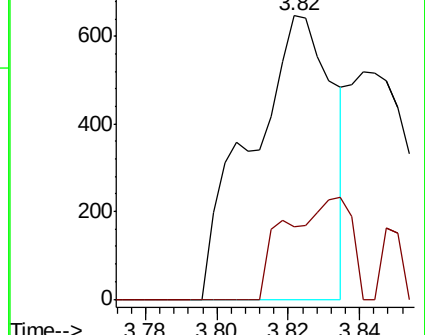
43 100

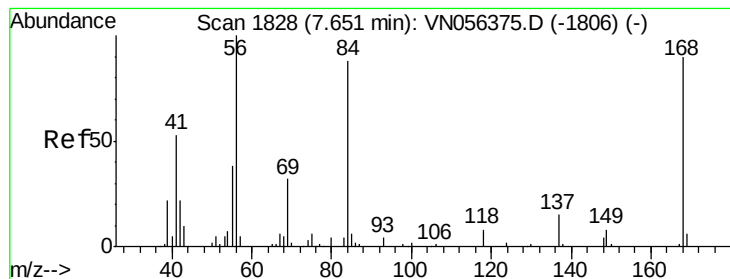
58 25.7 26.4 39.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#31

Cyclohexane

Concen: 0.950 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN056380.D

Acq: 19 Jun 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

TT-TB-20190617

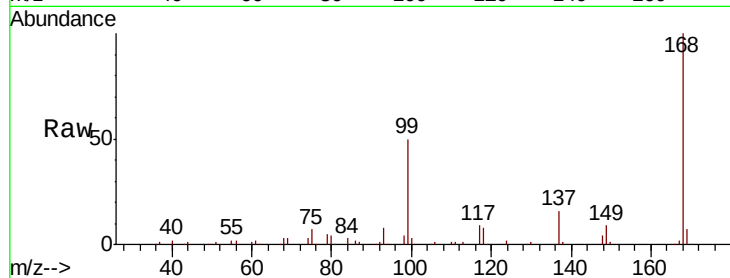
Tot Ion: 56 Resp: 5922

Ion Ratio Lower Upper

56 100

69 186.9 25.8 38.6#

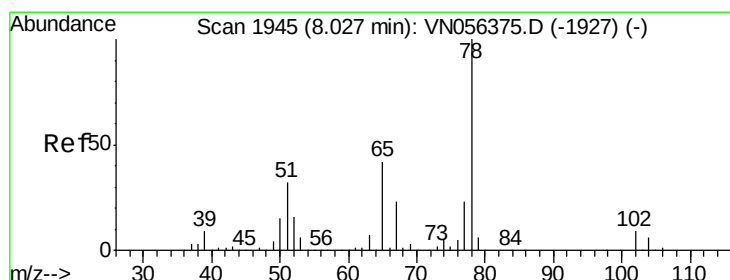
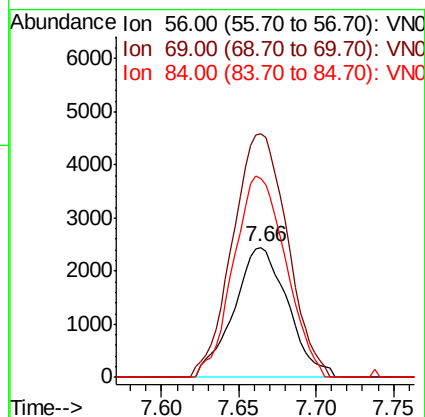
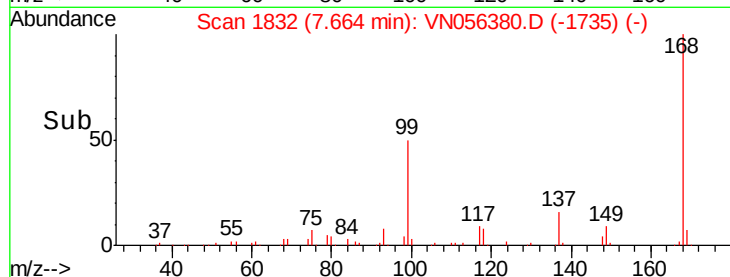
84 152.1 69.4 104.0#



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: 50.938 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056380.D

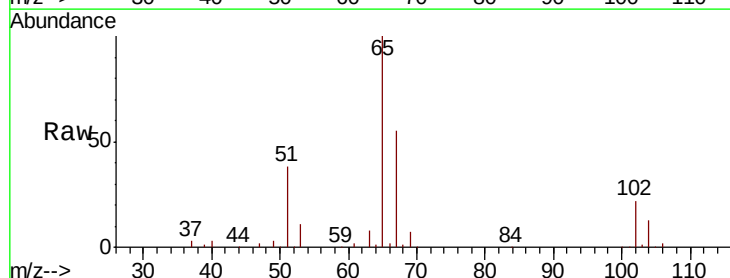
Acq: 19 Jun 2019 12:36

Tgt Ion: 65 Resp: 205538

Ion Ratio Lower Upper

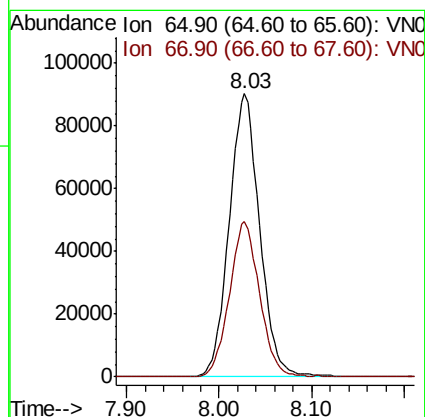
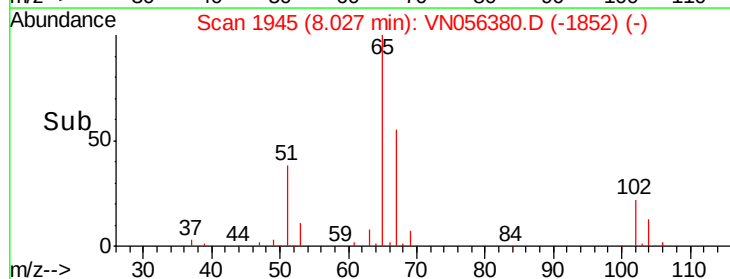
65 100

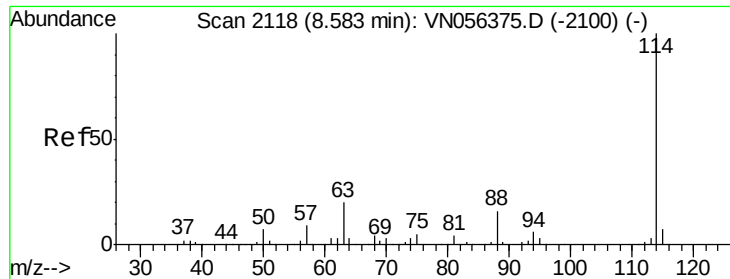
67 54.2 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

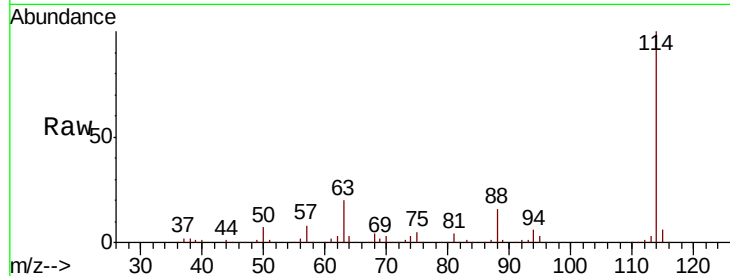




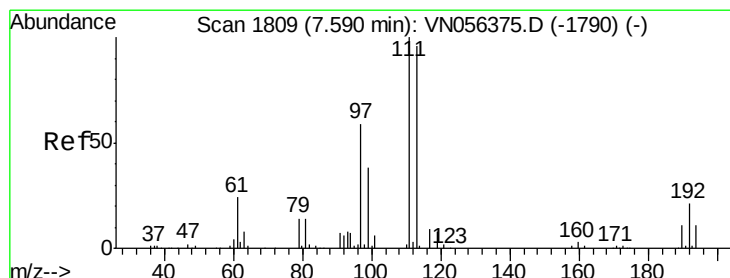
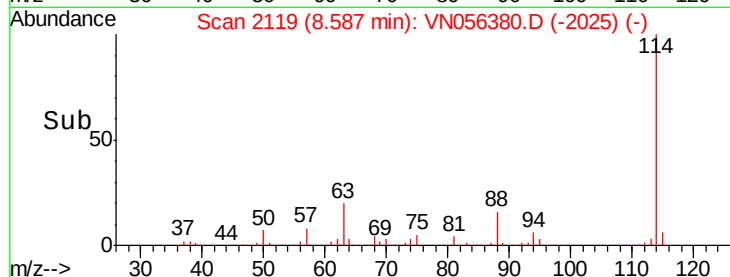
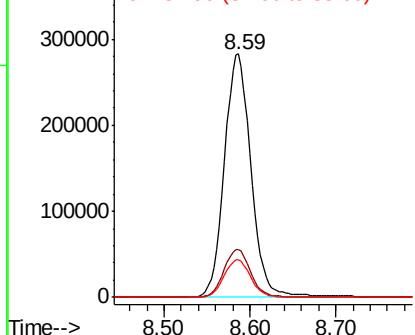
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056380.D
 Acq: 19 Jun 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-TB-20190617

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.2
88	15.6	0.0	31.4

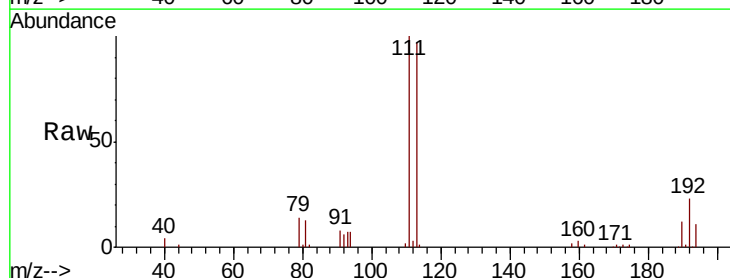


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

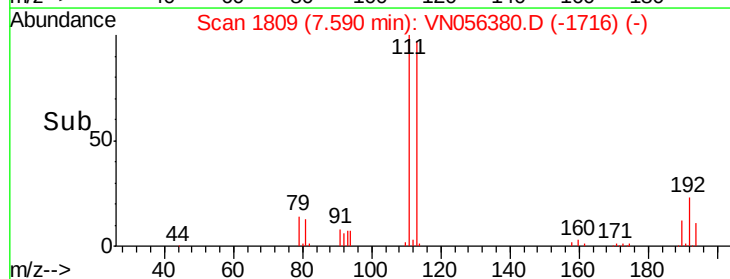
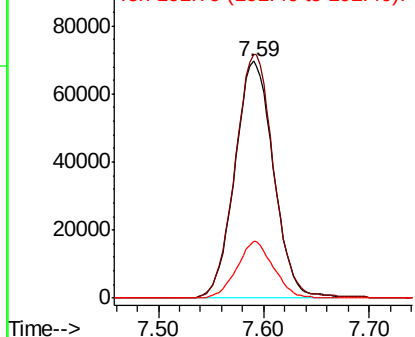


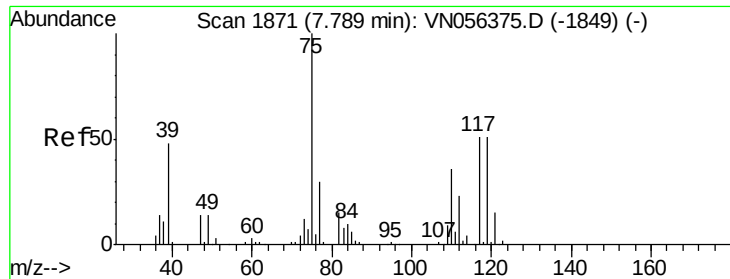
#35
 Dibromofluoromethane
 Concen: 46.586 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056380.D
 Acq: 19 Jun 2019 12:36

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.9	124.3
192	22.6	17.7	26.5



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

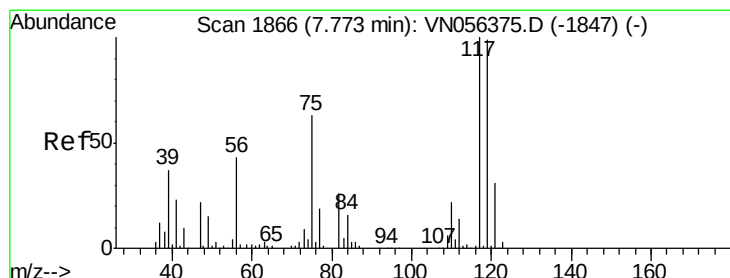
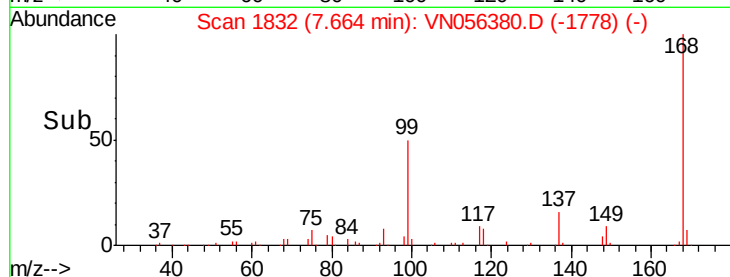
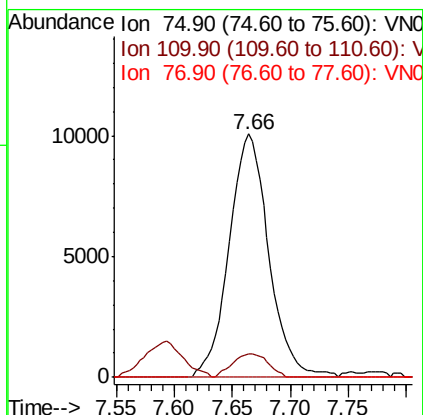
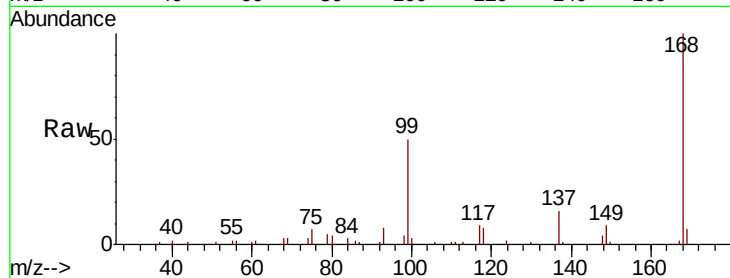




#36
 1,1-Dichloropropene
 Concen: 4.450 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056380.D
 Acq: 19 Jun 2019 12:36

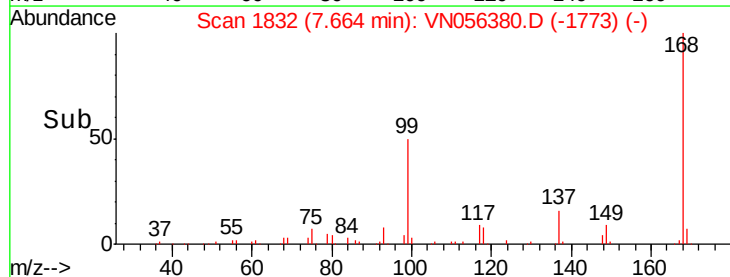
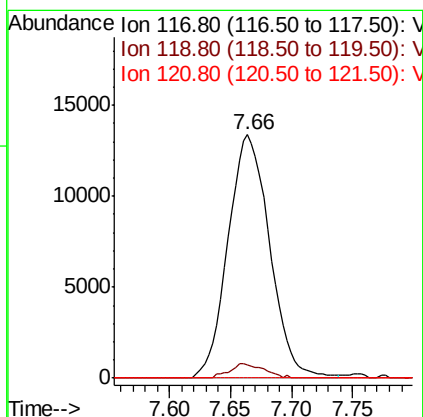
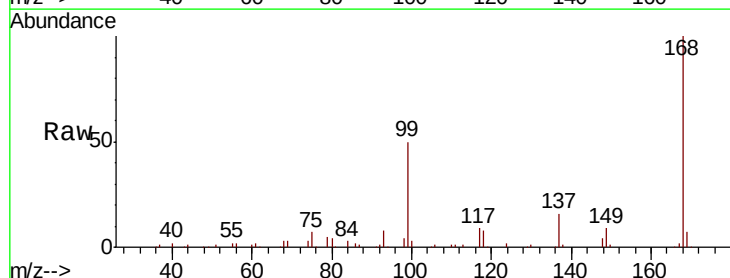
Instrument :
 MSVOA_N
 ClientSampleID :
 TT-TB-20190617

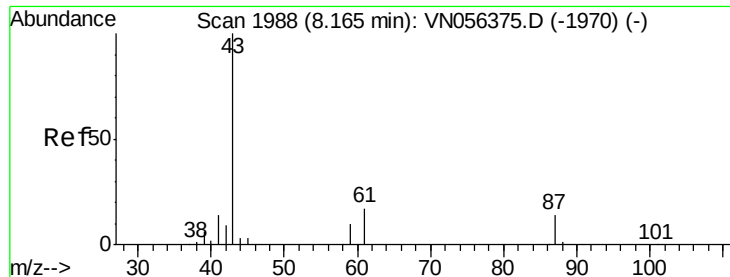
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.1	54.3#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.781 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056380.D
 Acq: 19 Jun 2019 12:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	79.1	118.7#
121	0.0	24.8	37.2#





#43

Isopropyl Acetate

Concen: 0.553 ug/l

RT: 8.28 min Scan# 2025

Delta R.T. 0.12 min

Lab File: VN056380.D

Acq: 19 Jun 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

TT-TB-20190617

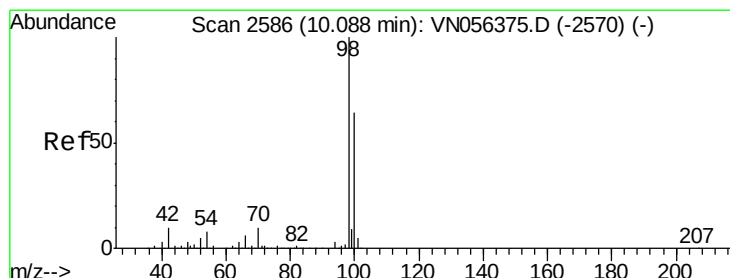
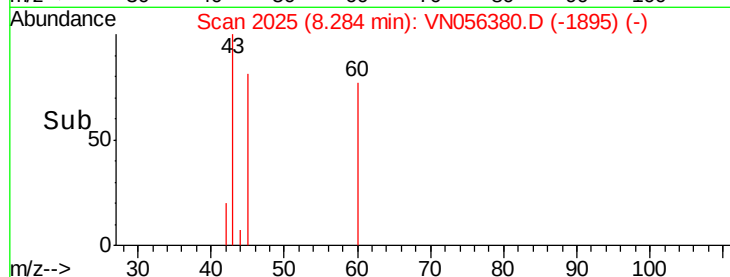
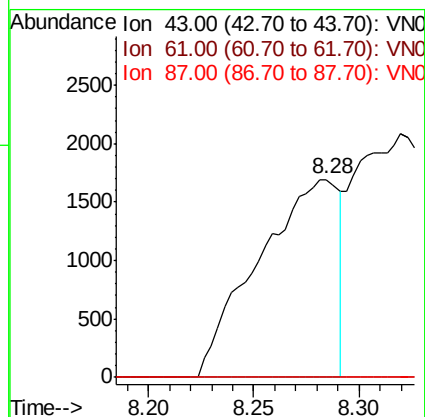
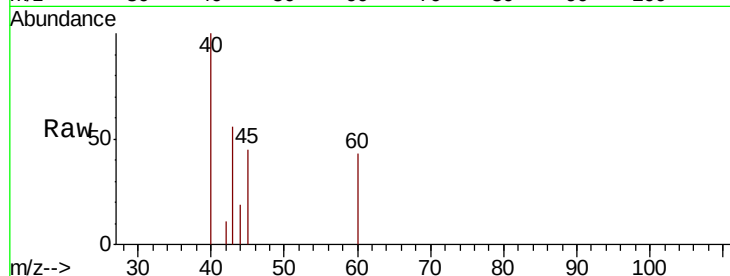
Tot Ion: 43 Resp: 4495

Ion Ratio Lower Upper

43 100

61 0.0 22.0 33.0#

87 0.0 11.0 16.4#



#50

Toluene-d8

Concen: 51.129 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056380.D

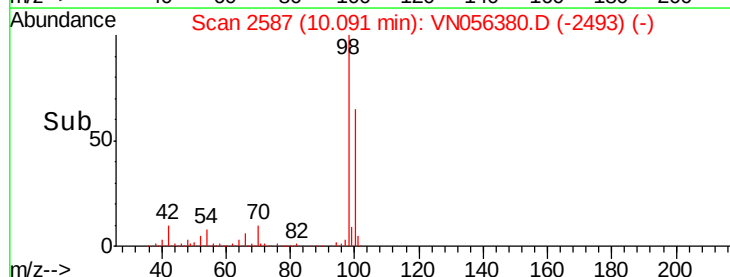
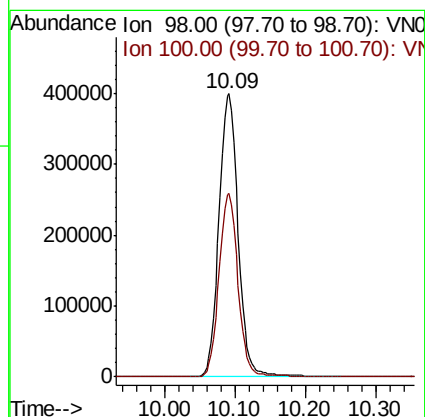
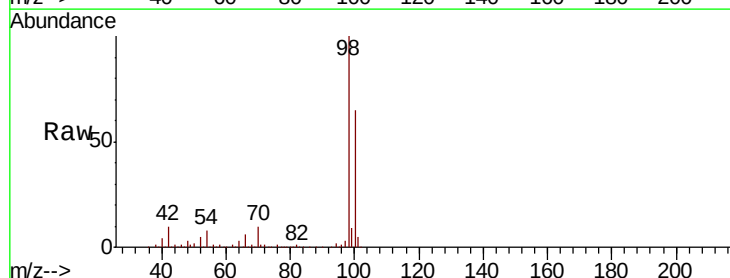
Acq: 19 Jun 2019 12:36

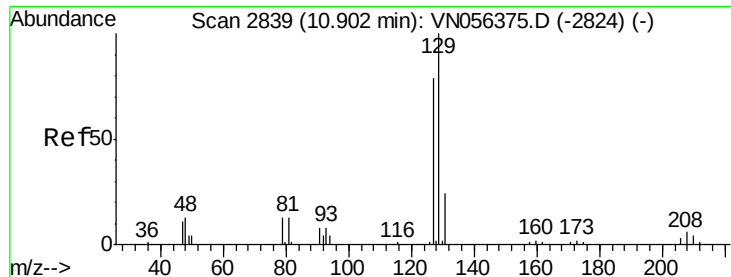
Tgt Ion: 98 Resp: 756392

Ion Ratio Lower Upper

98 100

100 64.4 52.2 78.2





#60

Dibromochloromethane

Concen: 2.404 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN056380.D

Acq: 19 Jun 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

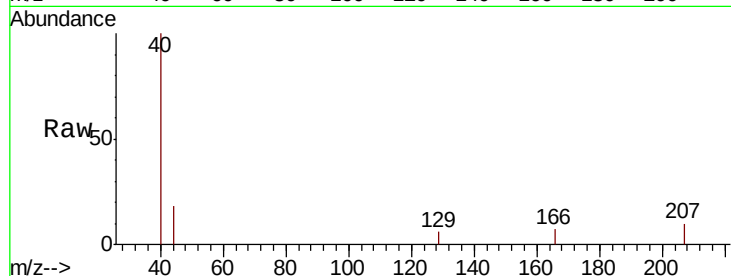
TT-TB-20190617

Tot Ion:129 Resp: 96

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

150

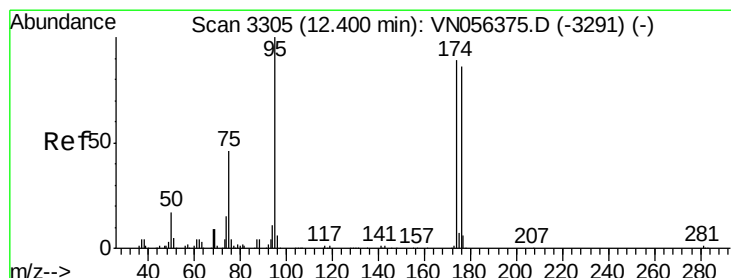
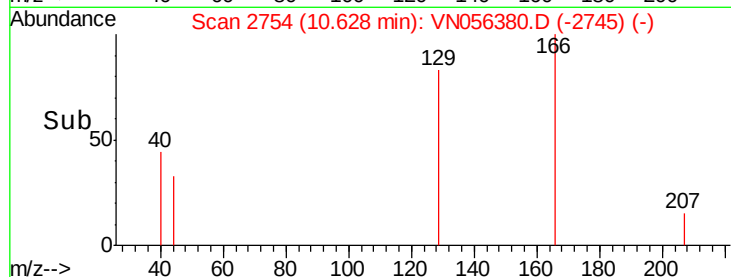
100

50

0

10.62 10.63 10.64

Time-->



#62

4-Bromofluorobenzene

Concen: 49.607 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056380.D

Acq: 19 Jun 2019 12:36

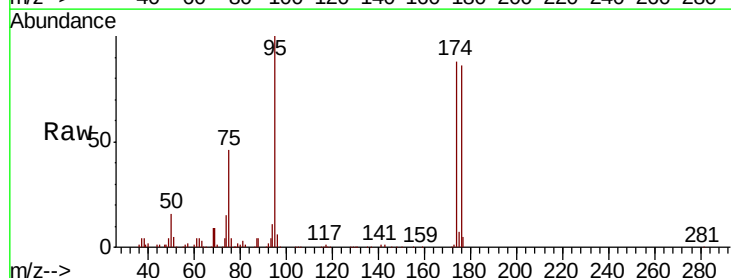
Tgt Ion: 95 Resp: 244644

Ion Ratio Lower Upper

95 100

174 89.5 0.0 179.4

176 87.4 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

120000

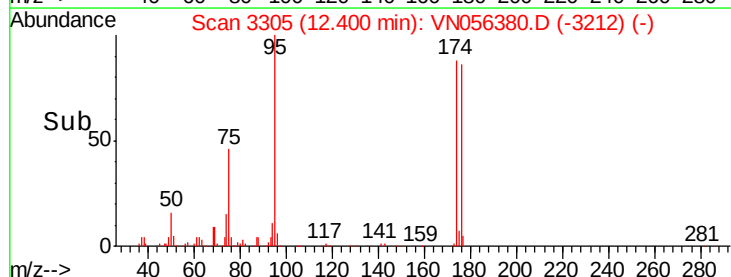
100000

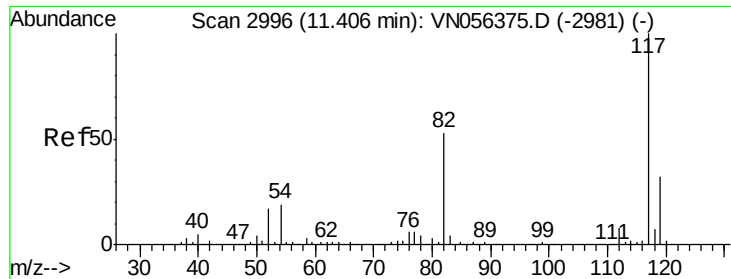
50000

0

12.30 12.40 12.50

Time-->

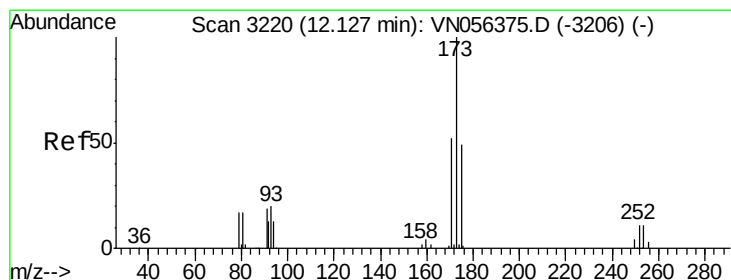
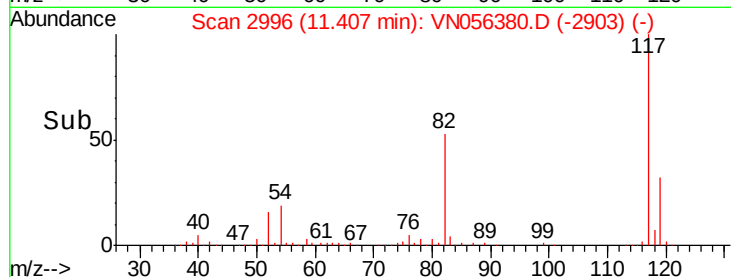
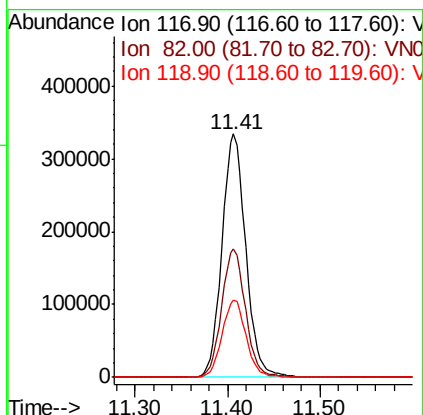
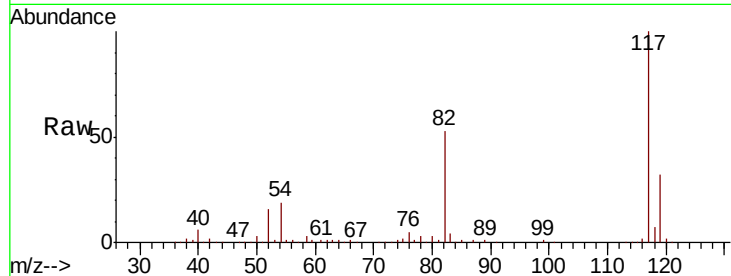




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056380.D
Acq: 19 Jun 2019 12:36

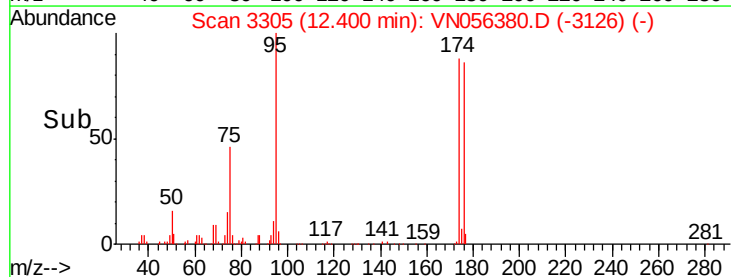
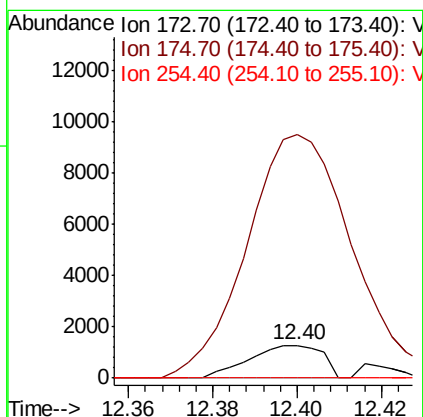
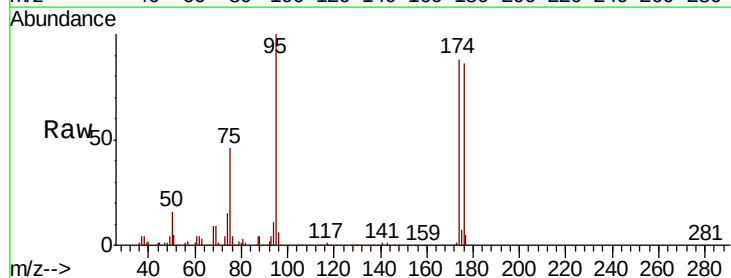
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20190617

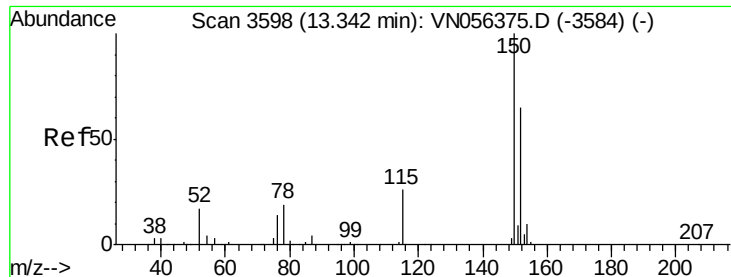
Tot Ion:117 Resp: 594353
Ion Ratio Lower Upper
117 100
82 52.8 42.0 63.0
119 31.9 25.3 37.9



#71
Bromoform
Concen: 3.584 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056380.D
Acq: 19 Jun 2019 12:36

Tgt Ion:173 Resp: 1535
Ion Ratio Lower Upper
173 100
175 944.4 24.4 73.4#
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: VN056380.D

Acq: 19 Jun 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

TT-TB-20190617

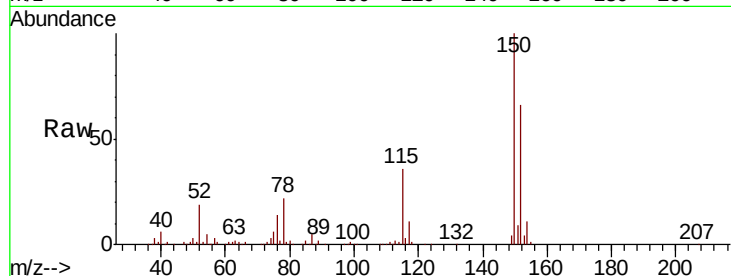
Tot Ion:152 Resp: 181514

Ion Ratio Lower Upper

152 100

115 54.7 28.1 84.4

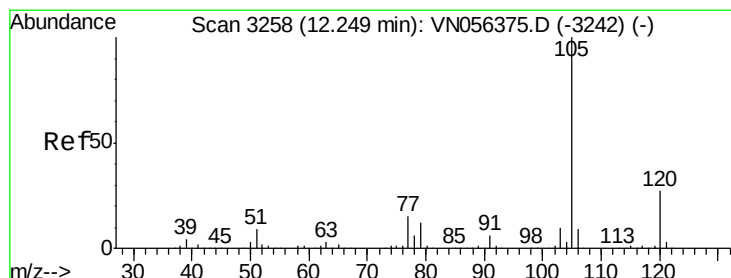
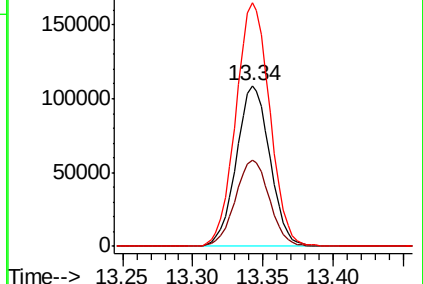
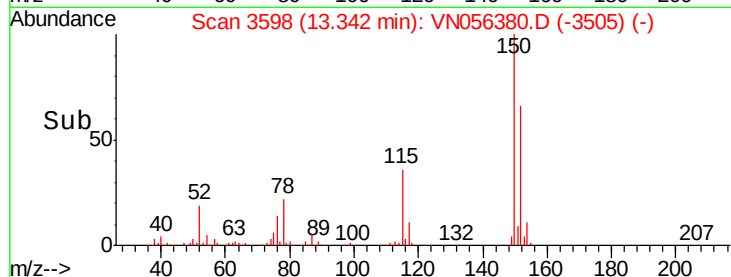
150 153.6 0.0 348.4



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# 3257

Delta R.T. -0.00 min

Lab File: VN056380.D

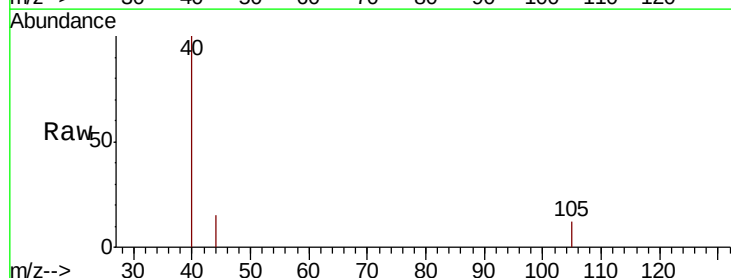
Acq: 19 Jun 2019 12:36

Tgt Ion:105 Resp: 587

Ion Ratio Lower Upper

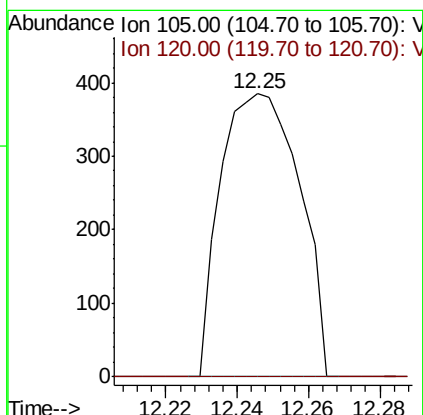
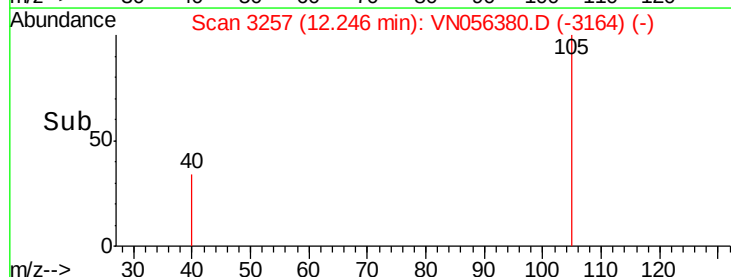
105 100

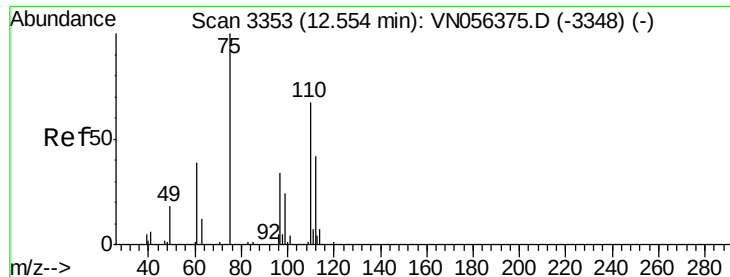
120 0.0 13.4 40.2#



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: 29.991 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056380.D

Acq: 19 Jun 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

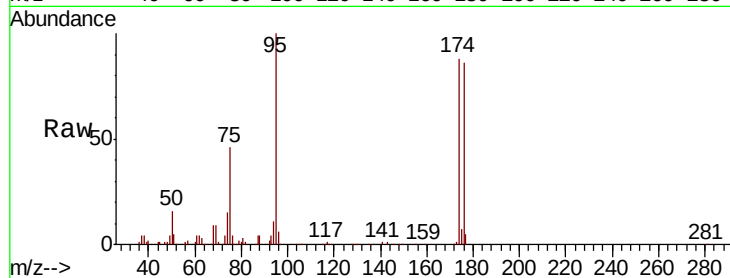
TT-TB-20190617

Tot Ion: 75 Resp: 112877

Ion Ratio Lower Upper

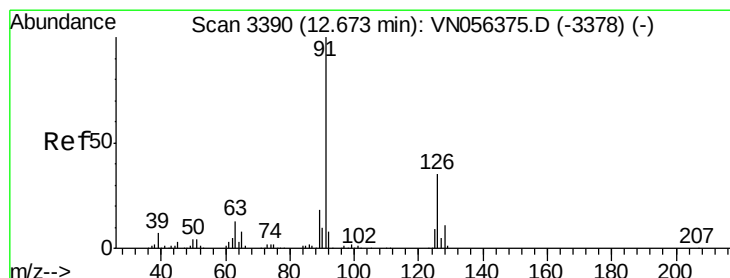
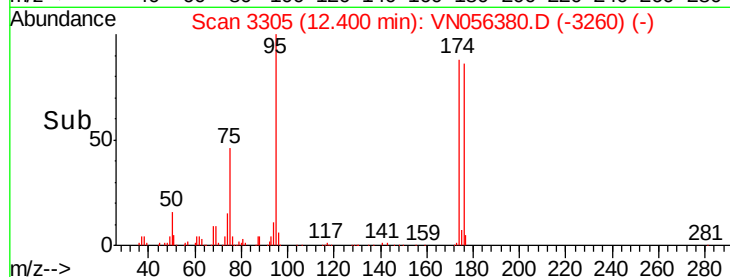
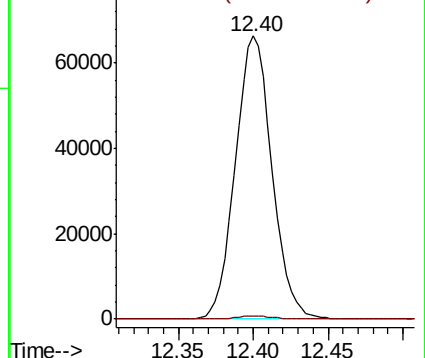
75 100

77 1.0 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# 3392

Delta R.T. 0.01 min

Lab File: VN056380.D

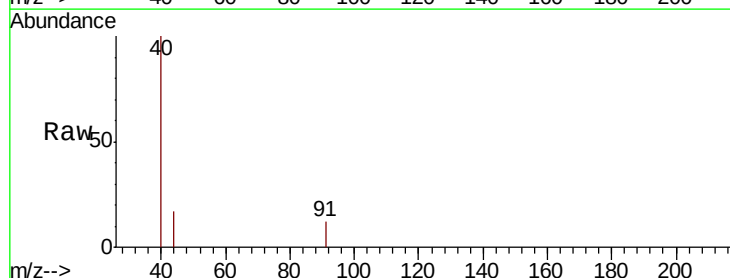
Acq: 19 Jun 2019 12:36

Tgt Ion: 91 Resp: 380

Ion Ratio Lower Upper

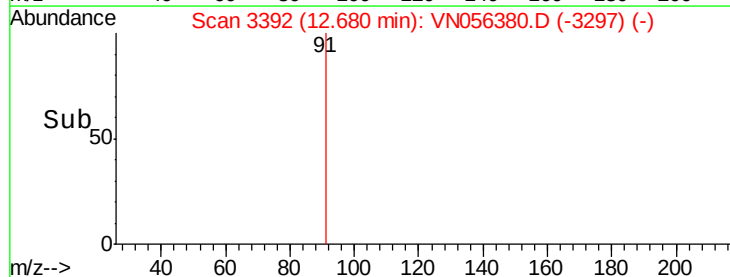
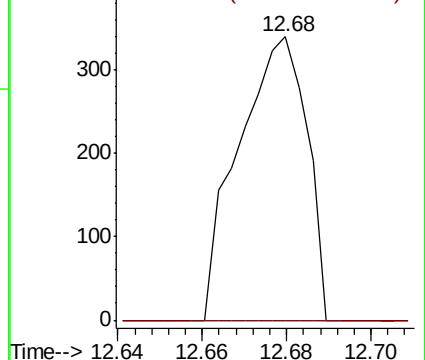
91 100

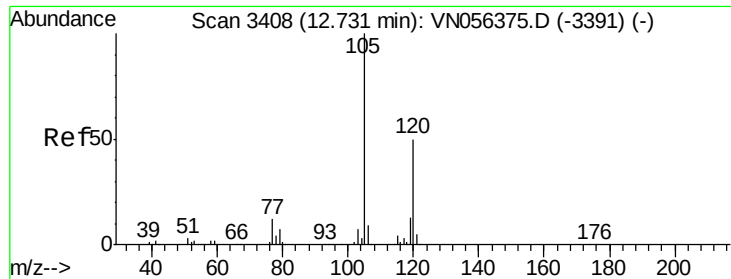
126 0.0 17.6 52.8#



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: 12.74 min Scan# 3410

Delta R.T. 0.01 min

Lab File: VN056380.D

Acq: 19 Jun 2019 12:36

Instrument :

MSVOA_N

ClientSampled :

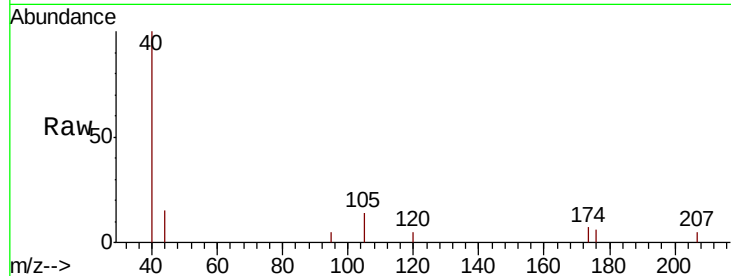
TT-TB-20190617

Tot Ion:105 Resp: 519

Ion Ratio Lower Upper

105 100

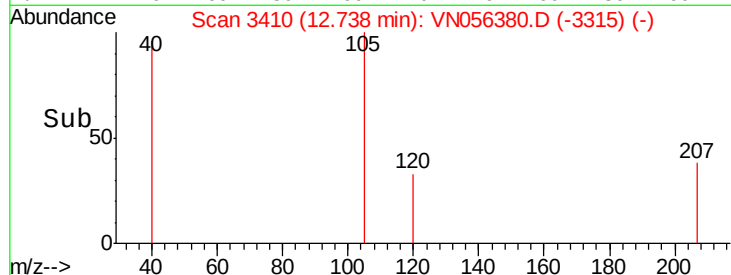
120 32.9 24.8 74.4



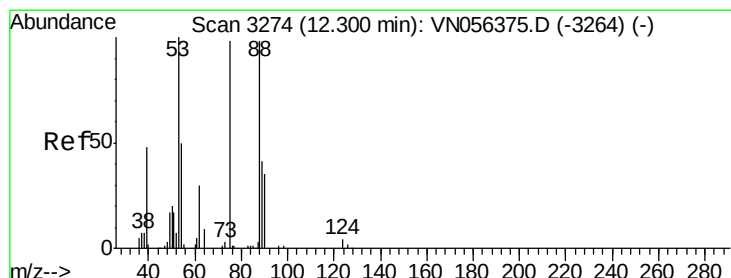
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Time-->



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 106.592 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056380.D

Acq: 19 Jun 2019 12:36

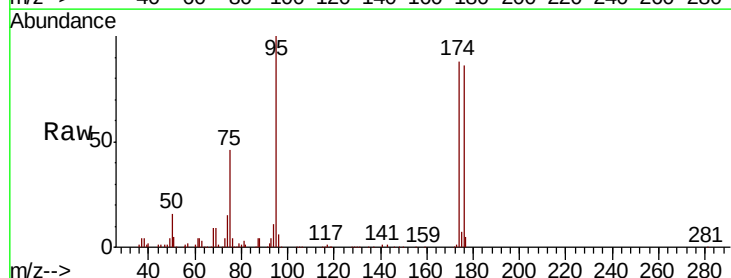
Tgt Ion: 75 Resp: 112877

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

89 0.0 35.0 52.6#

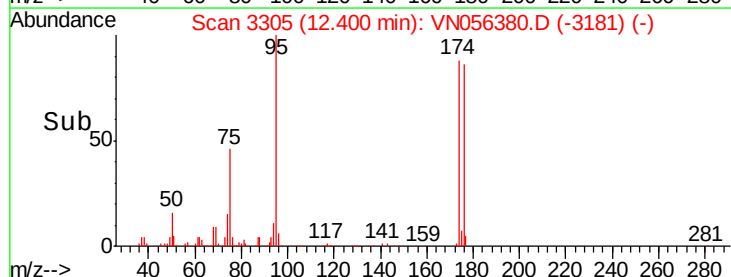


Abundance Ion 74.90 (74.60 to 75.60): VNO

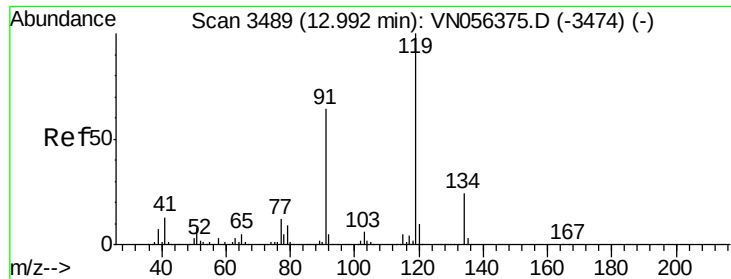
Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

Time-->



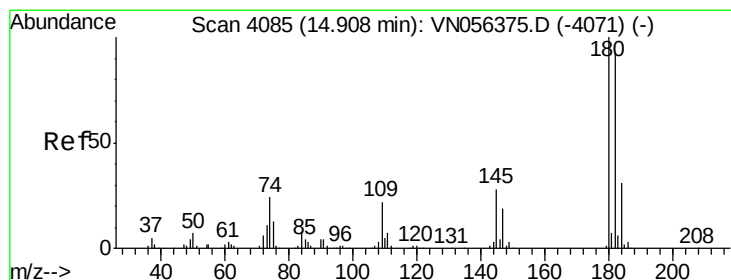
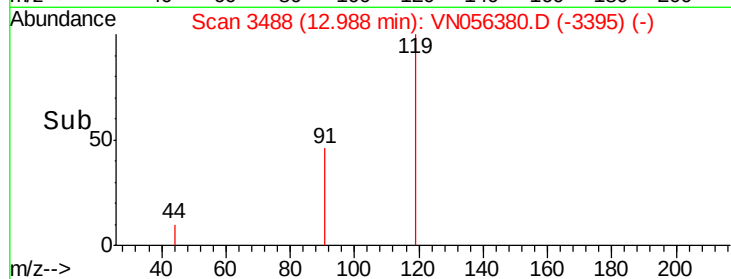
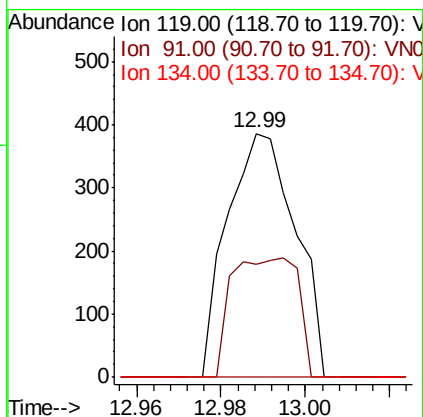
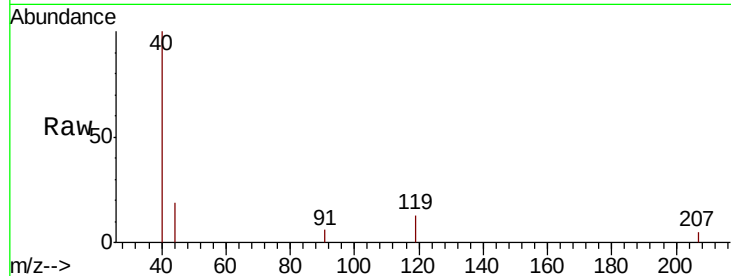
Time-->



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN056380.D
 Acq: 19 Jun 2019 12:36

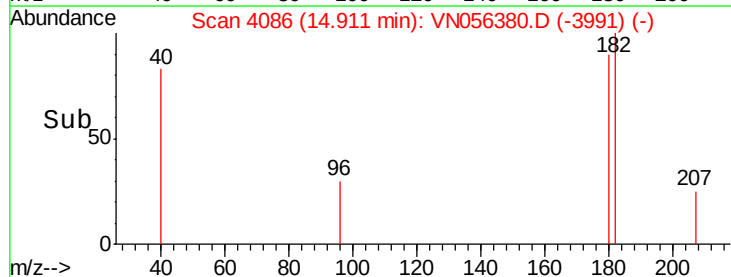
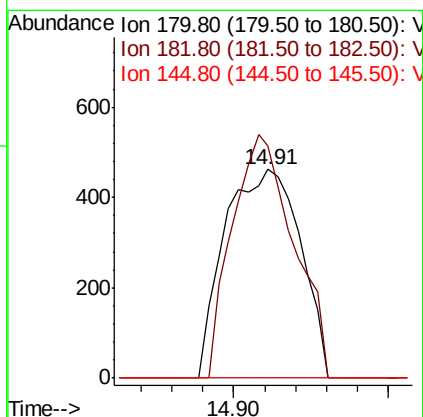
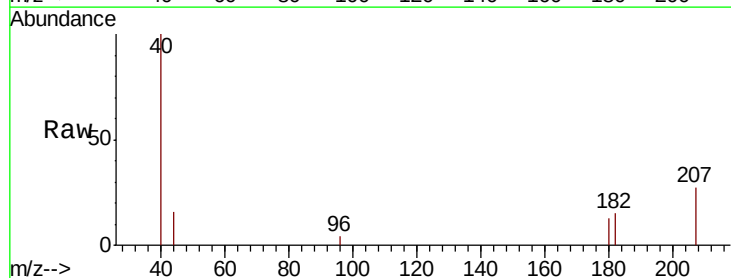
Instrument :
 MSVOA_N
 ClientSampleId :
 TT-TB-20190617

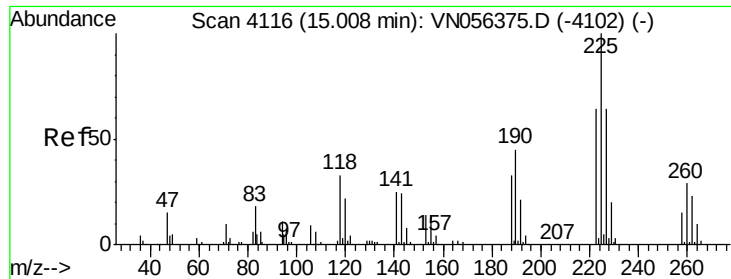
Tot Ion:119 Resp: 435
 Ion Ratio Lower Upper
 119 100
 91 47.4 31.6 94.7
 134 0.0 13.2 39.5#



#93
 1,2,4-Trichlorobenzene
 Concen: 5.834 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN056380.D
 Acq: 19 Jun 2019 12:36

Tgt Ion:180 Resp: 786
 Ion Ratio Lower Upper
 180 100
 182 95.0 46.9 140.6
 145 0.0 14.4 43.0#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN056380.D

Acq: 19 Jun 2019 12:36

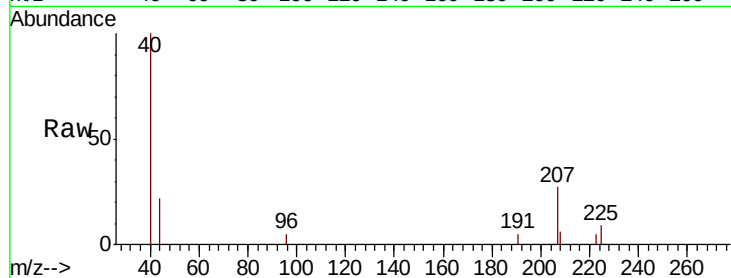
Instrument :

MSVOA_N

ClientSampleId :

TT-TB-20190617

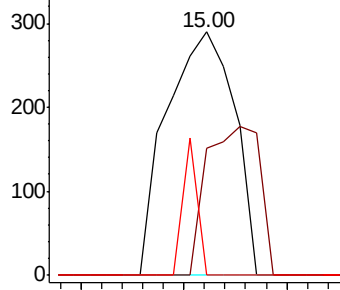
Tot Ion:	225	Resp:	263
Ion	Ratio	Lower	Upper
225	100		
223	48.3	31.4	94.3
227	11.8	32.1	96.3#



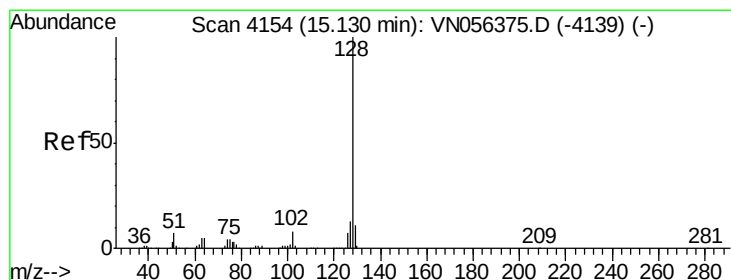
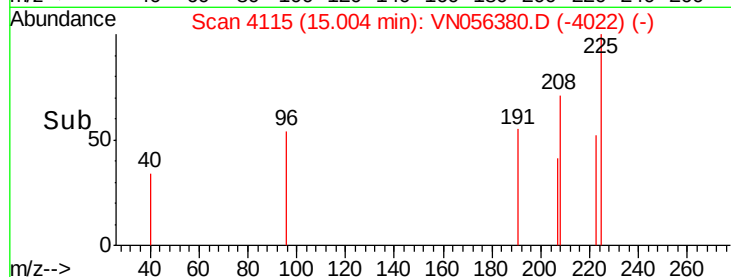
Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



Time-->



#95

Naphthalene

Concen: 5.412 ug/l

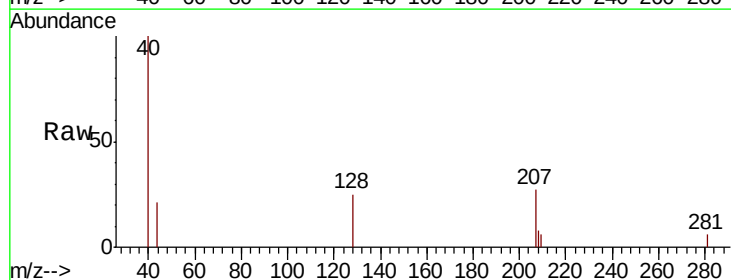
RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN056380.D

Acq: 19 Jun 2019 12:36

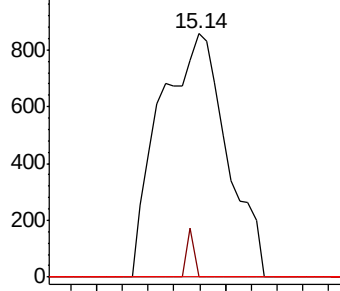
Tgt Ion:	128	Resp:	1552
Ion	Ratio	Lower	Upper
128	100		
127	2.1	10.2	15.2#
129	0.0	8.6	12.8#



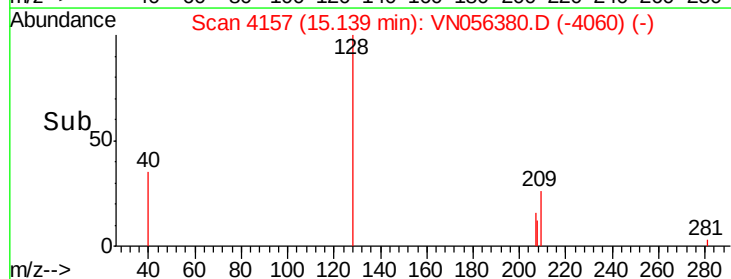
Abundance Ion 128.00 (127.70 to 128.70): V

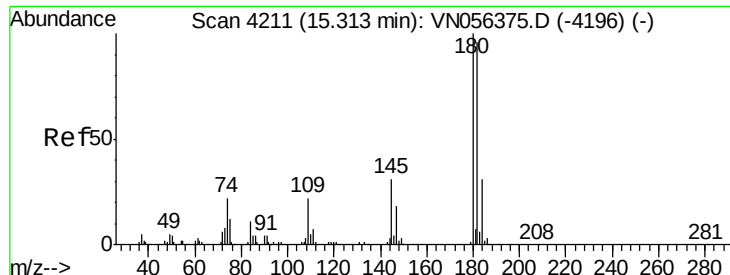
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->





#96
 1,2,3-Trichlorobenzene
 Concen: 4.735 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. -0.01 min
 Lab File: VN056380.D
 Acq: 19 Jun 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-TB-20190617

Tot Ion	Ratio	Lower	Upper
180	100		
182	83.8	48.3	144.8
145	25.2	15.4	46.1

