

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\
 Data File : VN056240.D
 Acq On : 12 Jun 2019 11:12
 Operator : JC/SP
 Sample : K3297-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OF-2

Quant Time: Jun 13 04:27:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	50136	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	249840	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	205411	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	94360	30.31	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.03%
60) 4-Bromofluorobenzene	12.40	95	68348	22.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	74.83%
63) Toluene-d8	10.09	98	292501	31.39	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.63%

Target Compounds

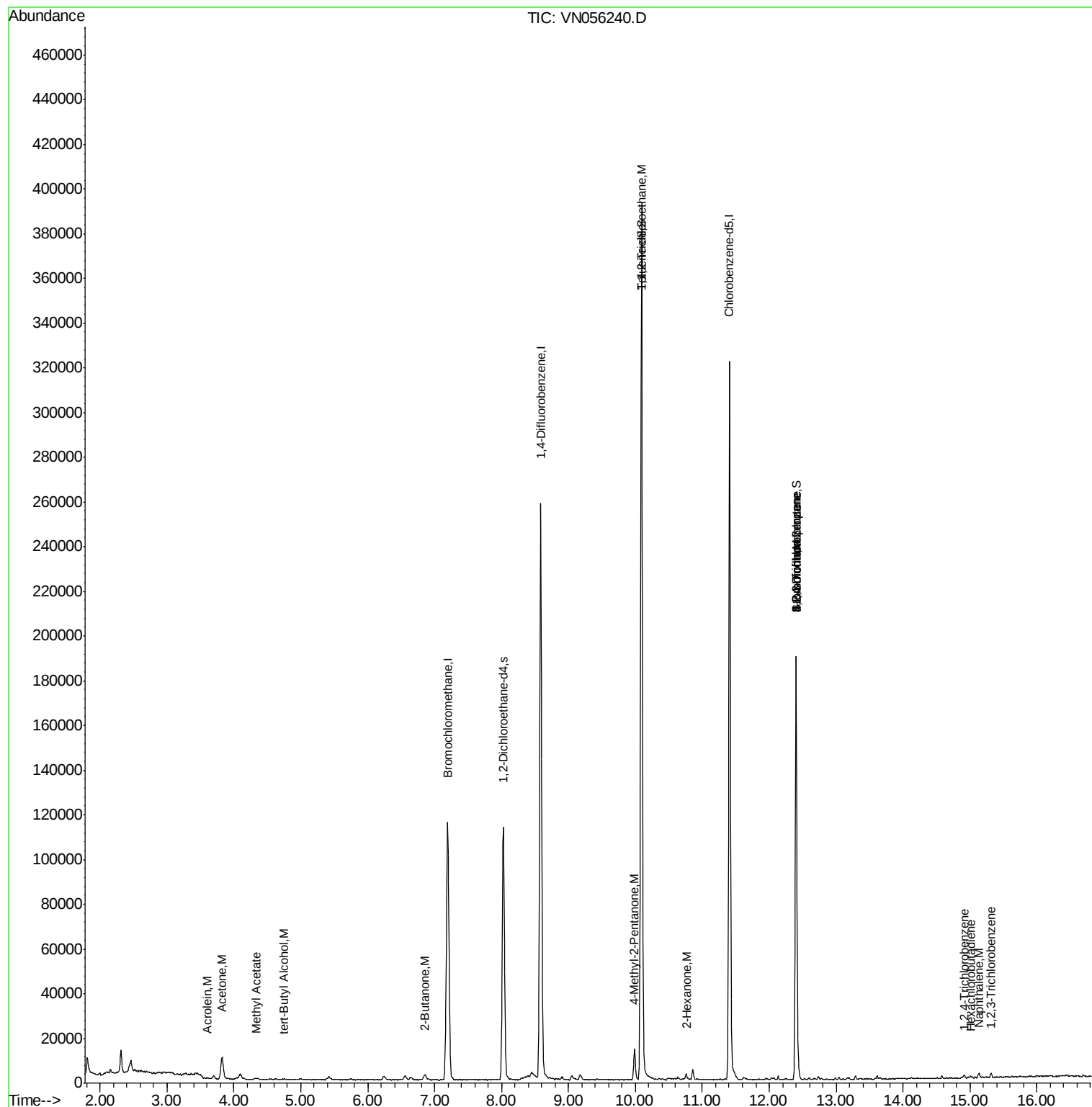
					Ovalue
12) Methyl Acetate	4.33	43	754	0.240 ug/l #	50
13) Acrolein	3.61	56	69	0.450 ug/l #	77
15) Acetone	3.82	58	5850	12.739 ug/l	94
23) tert-Butyl Alcohol	4.75	59	125	0.229 ug/l #	100
30) 2-Butanone	6.86	43	4710	2.647 ug/l #	77
50) 1,1,2-Trichloroethane	10.10	97	9305	3.426 ug/l #	1
56) Bromoform	12.40	173	406	0.211 ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	10378	3.337 ug/l	94
59) 2-Hexanone	10.76	43	2439	1.097 ug/l #	74
72) 1,2,3-Trichloropropane	12.40	75	30700	10.172 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	30700	35.649 ug/l #	11
89) 1,2,4-Trichlorobenzene	14.91	180	744	8.768 ug/l #	82
90) Hexachlorobutadiene	15.00	225	386	0.217 ug/l	59
91) Naphthalene	15.14	128	3056	0.473 ug/l #	78
92) 1,2,3-Trichlorobenzene	15.32	180	1113	0.437 ug/l	88

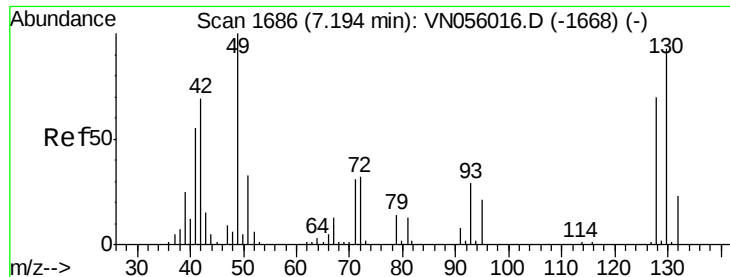
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 04:02:53 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN056240.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_N

ClientSampleId :

OF-2

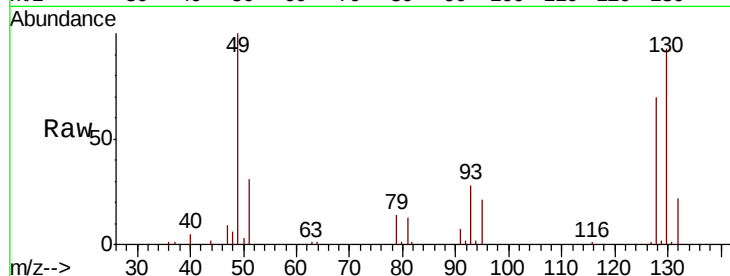
Tot Ion:128 Resp: 50136

Ion Ratio Lower Upper

128 100

49 143.3 0.0 355.8

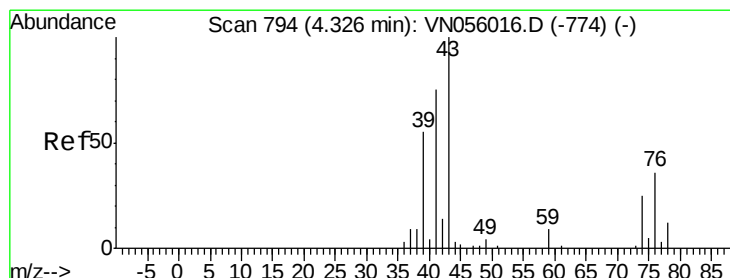
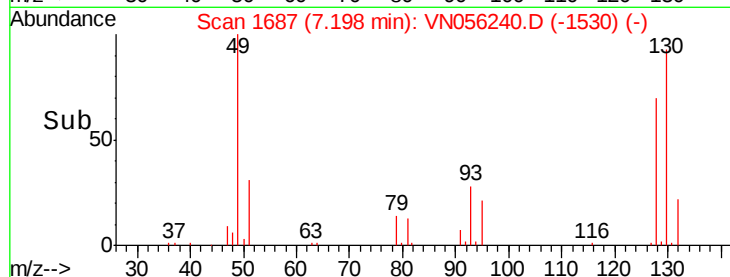
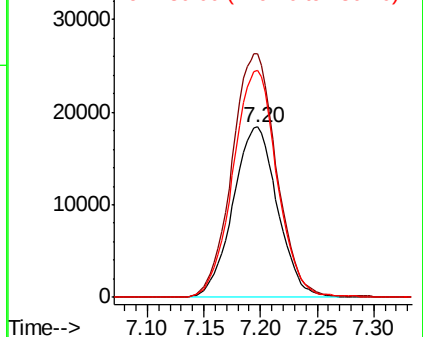
130 132.4 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 0.240 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN056240.D

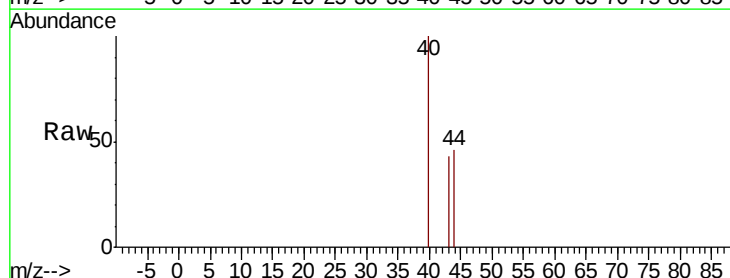
Acq: 12 Jun 2019 11:12

Tgt Ion: 43 Resp: 754

Ion Ratio Lower Upper

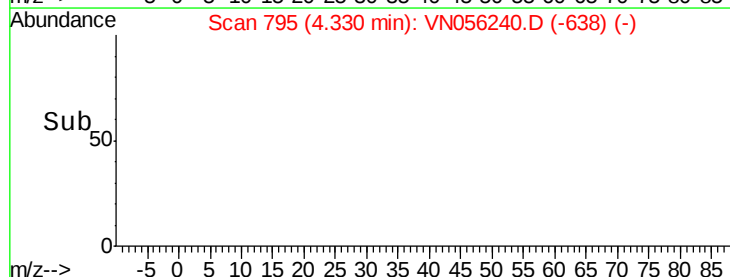
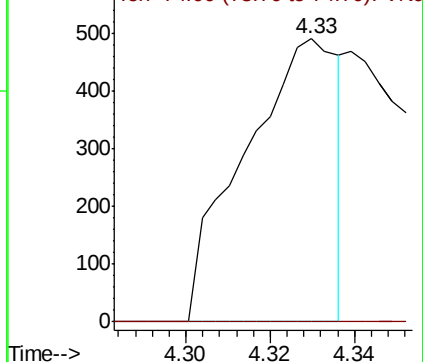
43 100

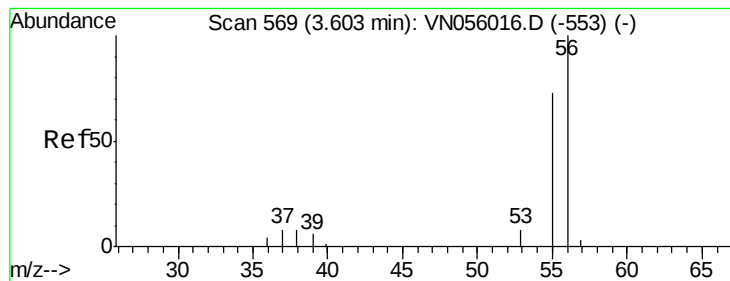
74 0.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.450 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN056240.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_N

ClientSampled :

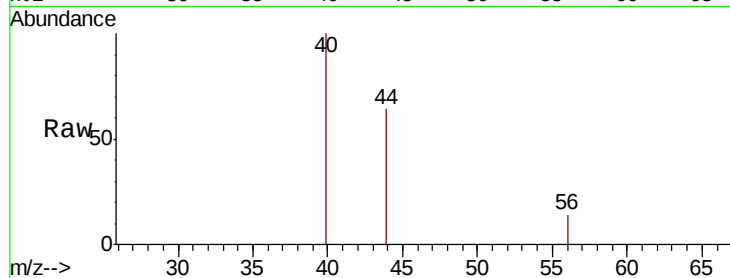
OF-2

Tot Ion: 56 Resp: 69

Ion Ratio Lower Upper

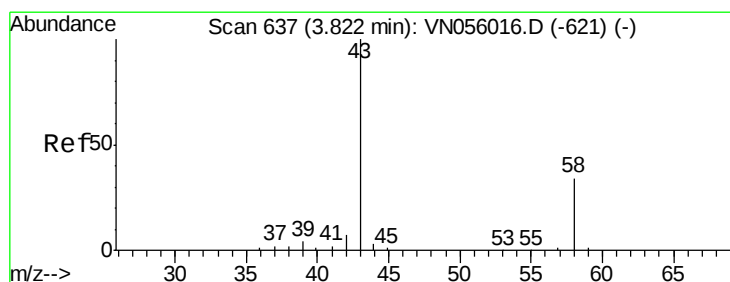
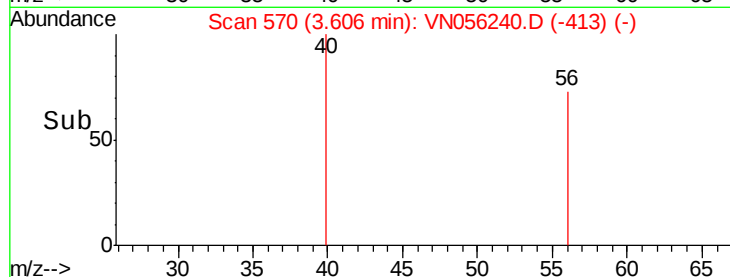
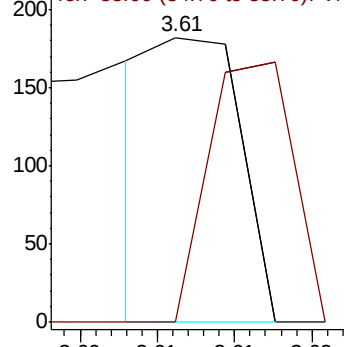
56 100

55 91.3 57.9 86.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 12.739 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056240.D

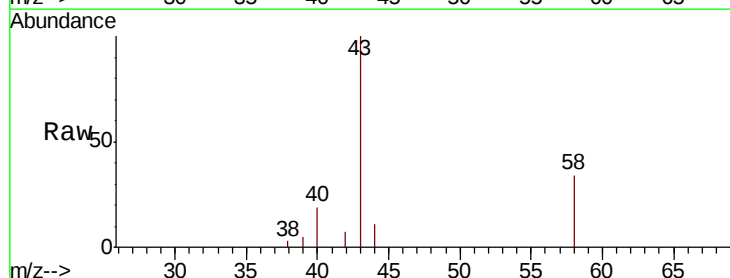
Acq: 12 Jun 2019 11:12

Tgt Ion: 58 Resp: 5850

Ion Ratio Lower Upper

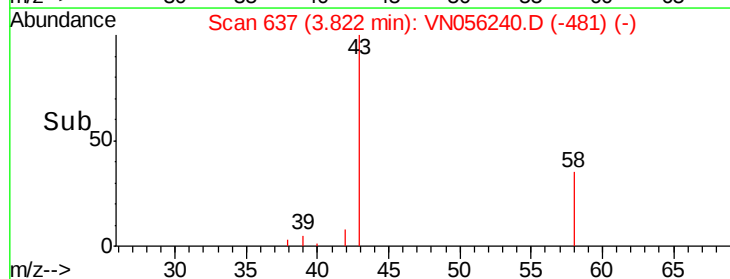
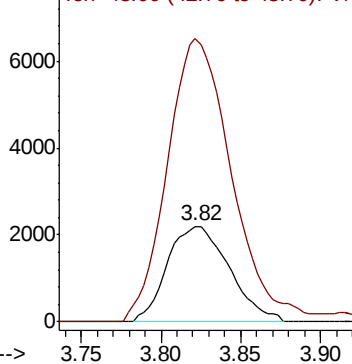
58 100

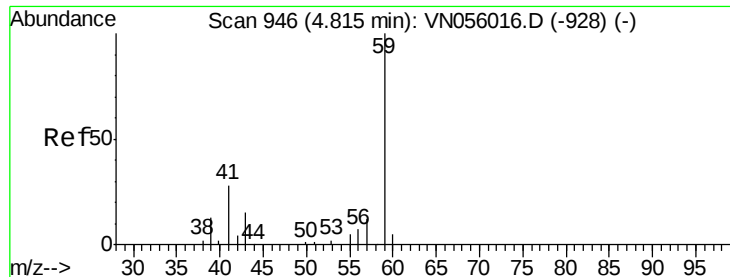
43 279.0 232.5 348.7



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



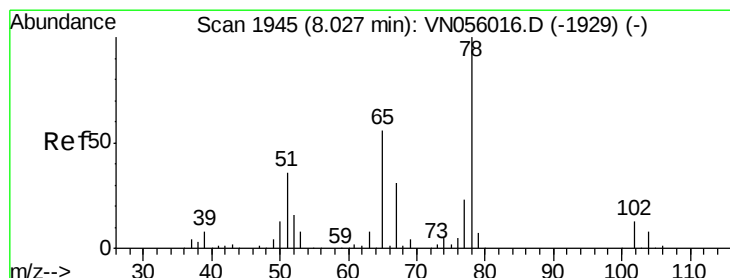
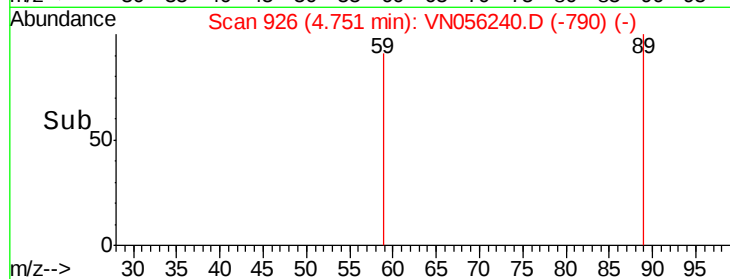
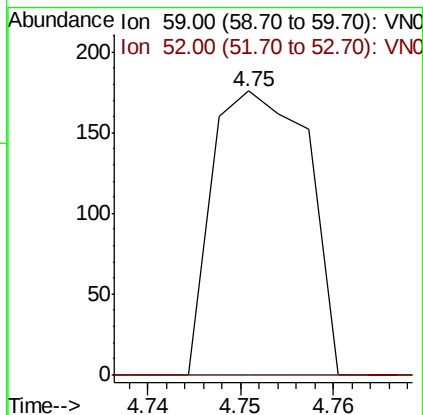
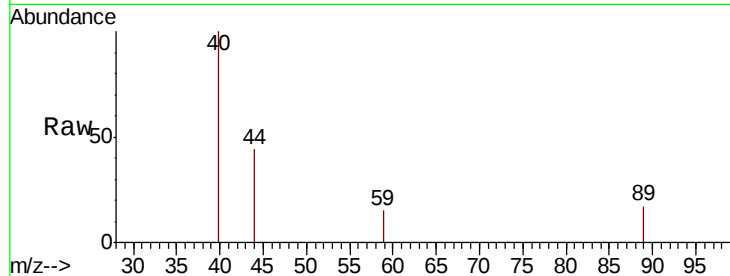


#23

tert-Butyl Alcohol
 Concen: 0.229 ug/l
 RT: 4.75 min Scan# 926
 Delta R.T. -0.06 min
 Lab File: VN056240.D
 Acq: 12 Jun 2019 11:12

Instrument :
 MSVOA_N
 ClientSampleId :
 OF-2

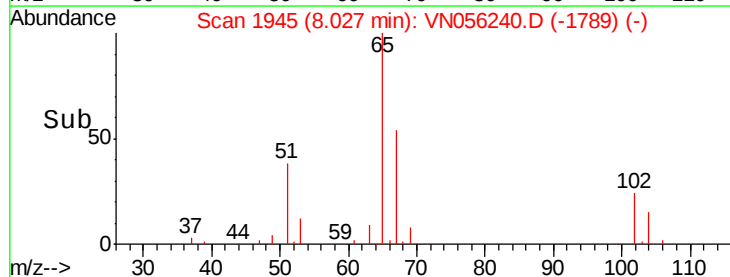
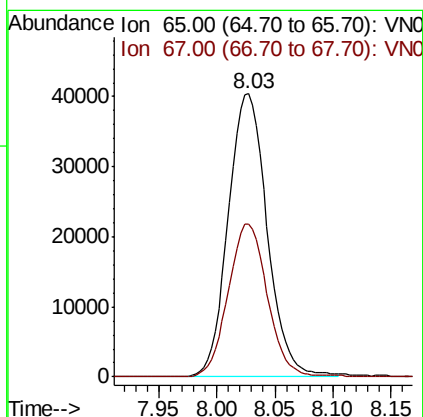
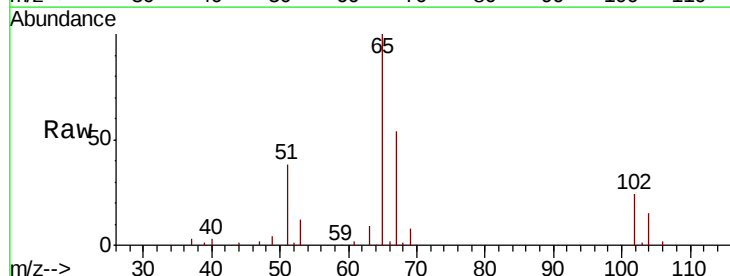
Tot Ion: 59 Resp: 125
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

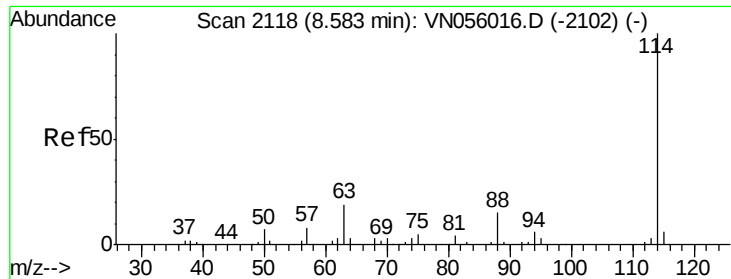


#27

1,2-Dichloroethane-d4
 Concen: 30.308 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056240.D
 Acq: 12 Jun 2019 11:12

Tgt Ion: 65 Resp: 94360
 Ion Ratio Lower Upper
 65 100
 67 54.2 43.4 65.2

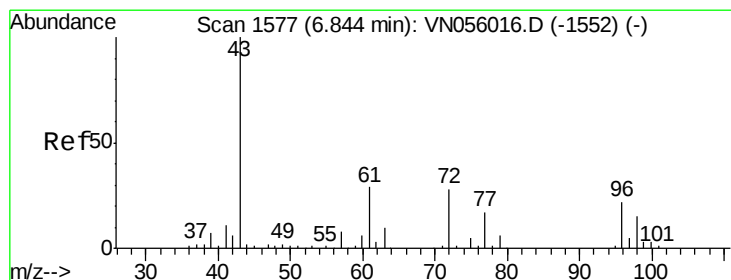
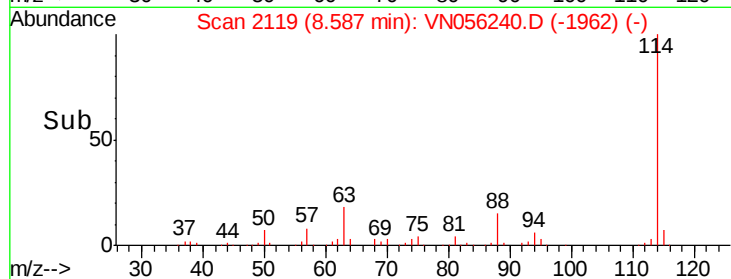
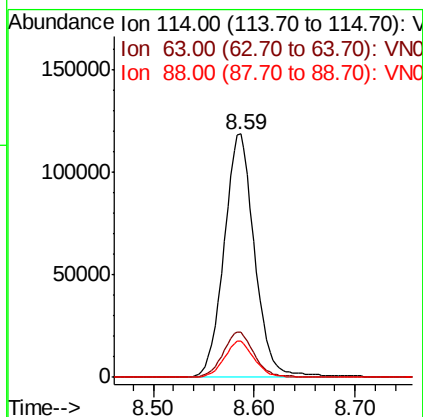
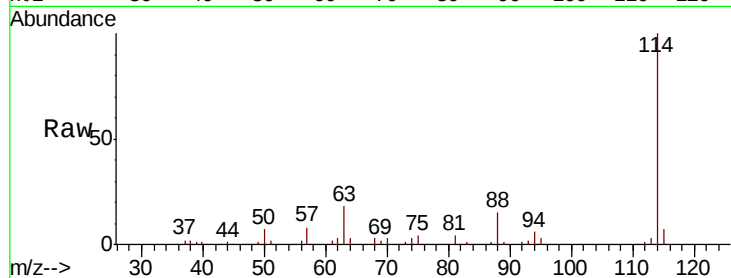




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056240.D
 Acq: 12 Jun 2019 11:12

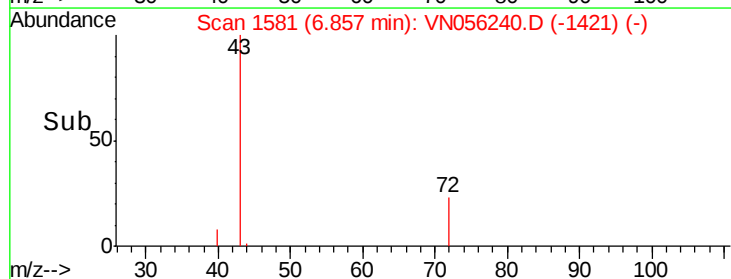
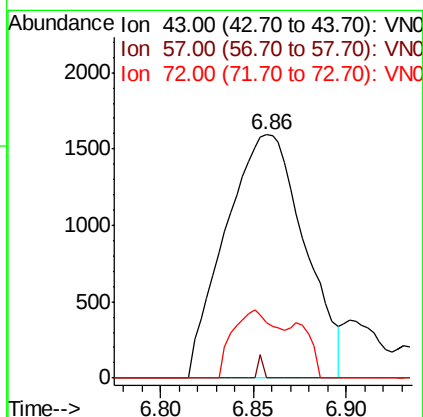
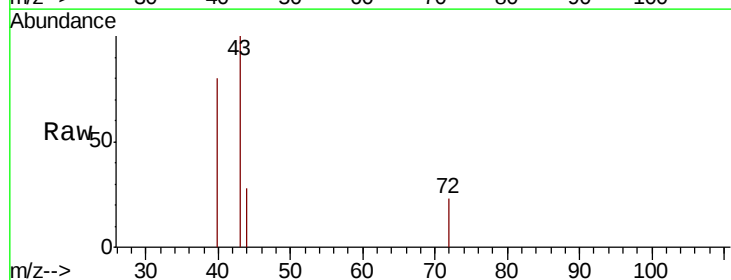
Instrument :
 MSVOA_N
 ClientSampleId :
 OF-2

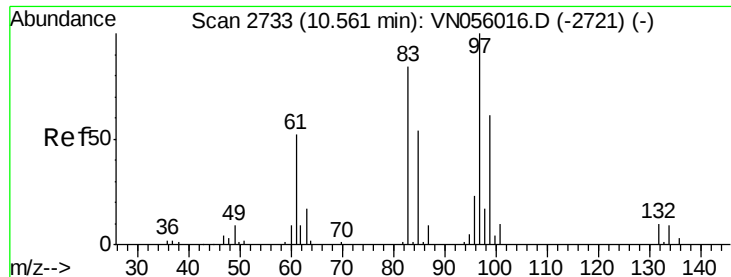
Tot Ion:114 Resp: 249840
 Ion Ratio Lower Upper
 114 100
 63 18.9 14.7 22.1
 88 14.5 11.9 17.9



#30
 2-Butanone
 Concen: 2.647 ug/l
 RT: 6.86 min Scan# 1581
 Delta R.T. 0.01 min
 Lab File: VN056240.D
 Acq: 12 Jun 2019 11:12

Tgt Ion: 43 Resp: 4710
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.7 10.1#
 72 15.7 22.4 33.6#

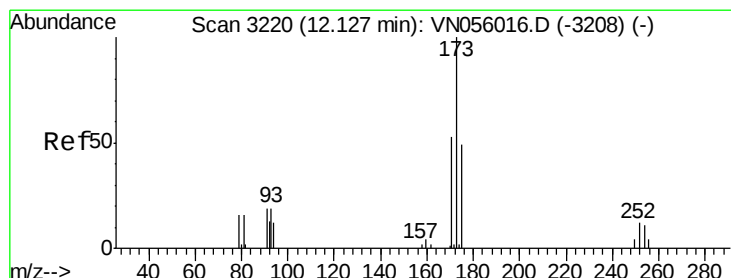
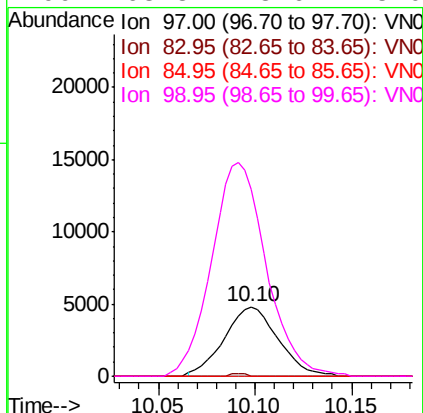
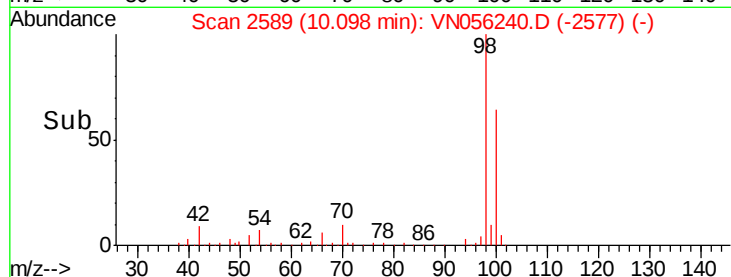
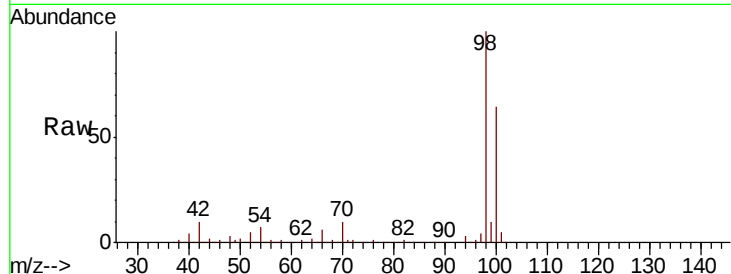




#50
1,1,2-Trichloroethane
Concen: 3.426 ug/l
RT: 10.10 min Scan# 2589
Delta R.T. -0.46 min
Lab File: VN056240.D
Acq: 12 Jun 2019 11:12

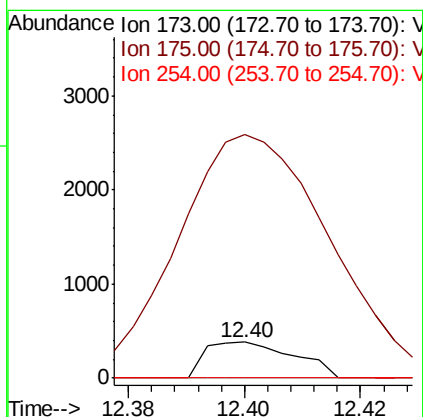
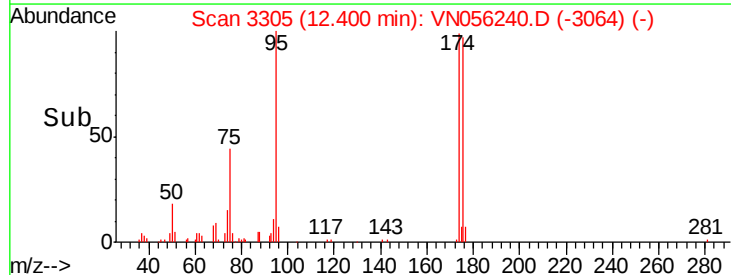
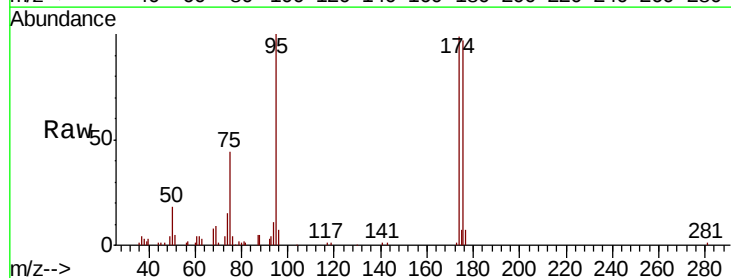
Instrument :
MSVOA_N
ClientSampled :
OF-2

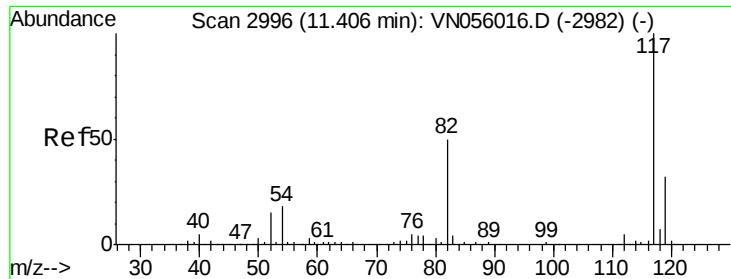
Tot Ion: 97 Resp: 9305
Ion Ratio Lower Upper
97 100
83 0.0 66.9 100.3#
85 0.0 43.3 64.9#
99 263.8 48.6 73.0#



#56
Bromoform
Concen: 0.211 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056240.D
Acq: 12 Jun 2019 11:12

Tgt Ion: 173 Resp: 406
Ion Ratio Lower Upper
173 100
175 1159.1 38.7 58.1#
254 0.0 6.6 9.8#

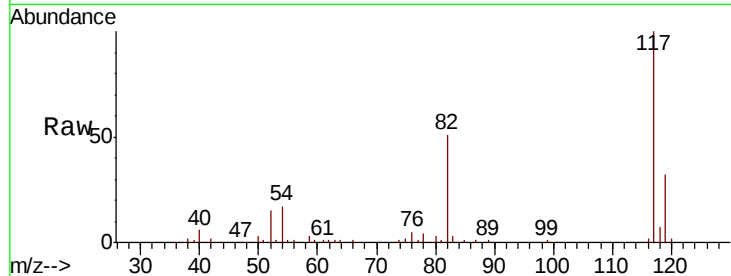




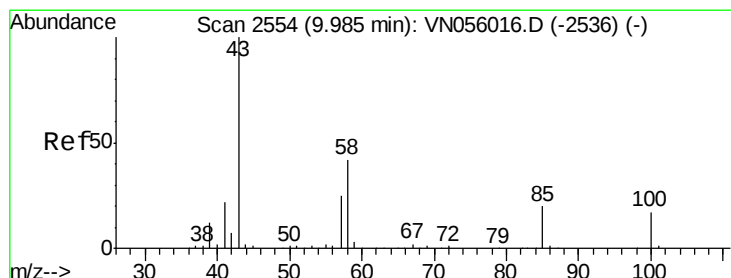
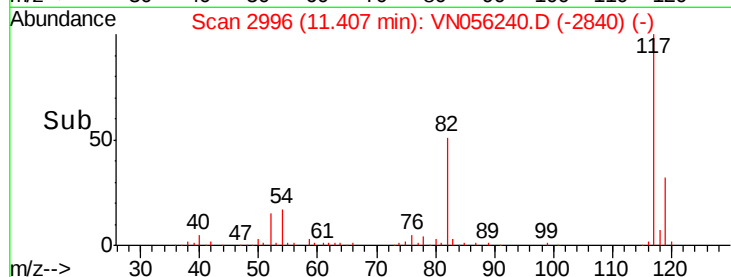
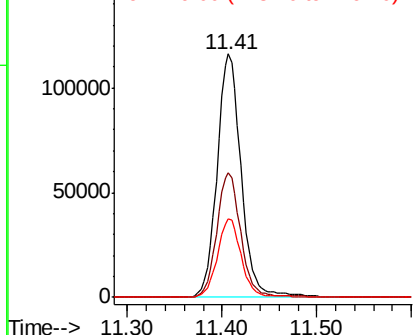
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056240.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_N
ClientSampled :
OF-2

Tot Ion:117 Resp: 205411
Ion Ratio Lower Upper
117 100
82 50.9 41.2 61.8
119 31.6 26.2 39.2

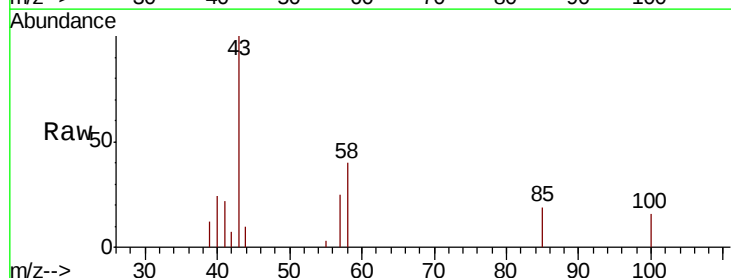


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

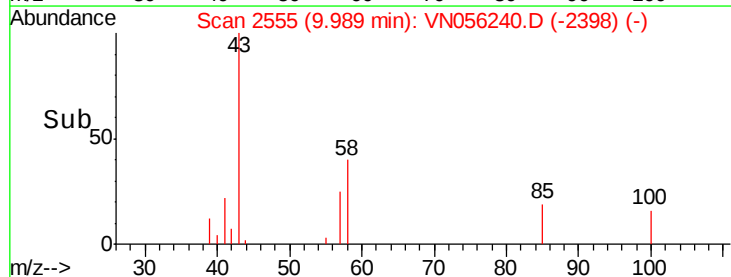
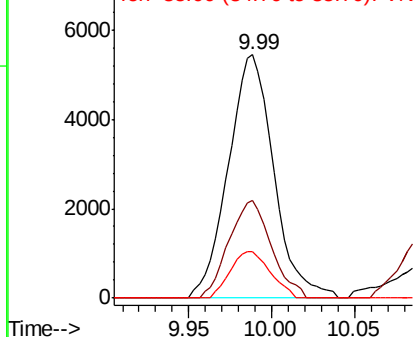


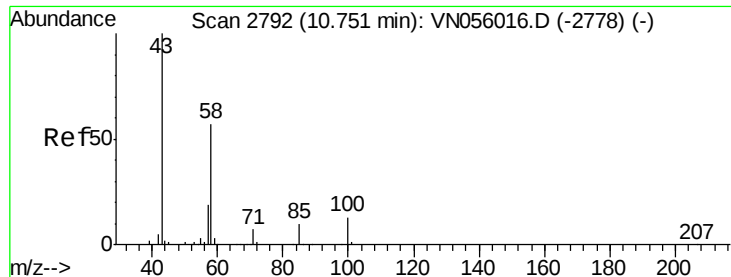
#58
4-Methyl-2-Pentanone
Concen: 3.337 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN056240.D
Acq: 12 Jun 2019 11:12

Tgt Ion: 43 Resp: 10378
Ion Ratio Lower Upper
43 100
58 37.4 33.1 49.7
85 16.8 15.5 23.3



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN
Ion 85.00 (84.70 to 85.70): VN

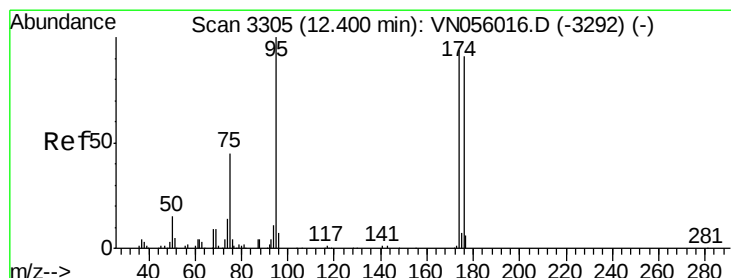
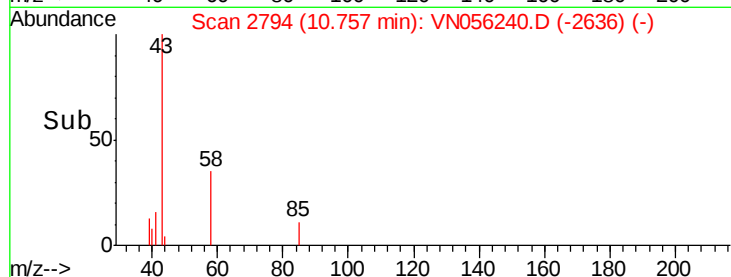
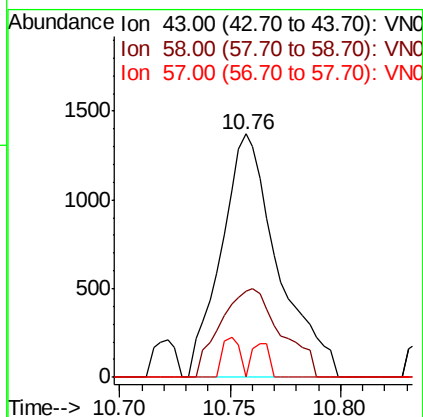
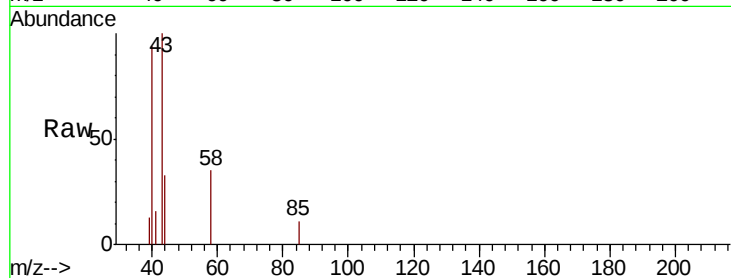




#59
2-Hexanone
Concen: 1.097 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN056240.D
Acq: 12 Jun 2019 11:12

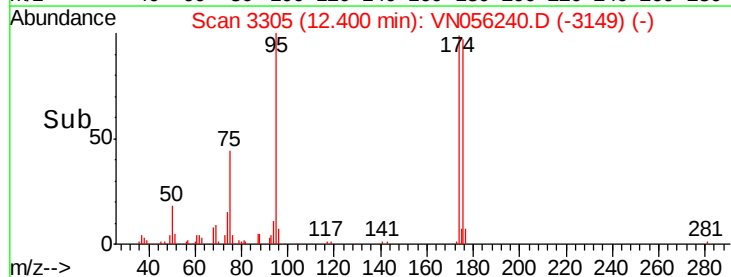
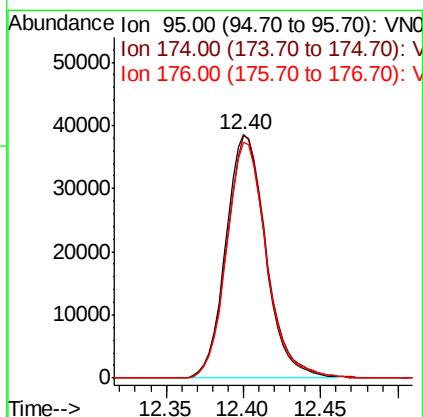
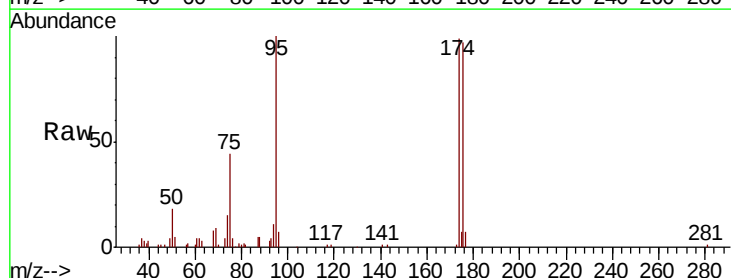
Instrument :
MSVOA_N
ClientSampled :
OF-2

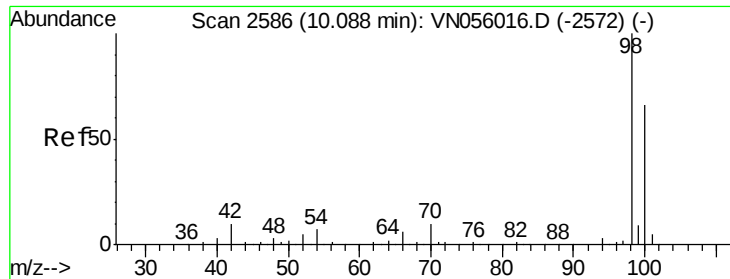
Tot Ion: 43 Resp: 2439
Ion Ratio Lower Upper
43 100
58 39.0 45.3 67.9#
57 4.3 15.6 23.4#



#60
4-Bromofluorobenzene
Concen: 22.449 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056240.D
Acq: 12 Jun 2019 11:12

Tgt Ion: 95 Resp: 68348
Ion Ratio Lower Upper
95 100
174 100.2 75.4 113.0
176 97.1 73.9 110.9





#63

Toluene-d8

Concen: 31.391 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056240.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_N

ClientSampleId :

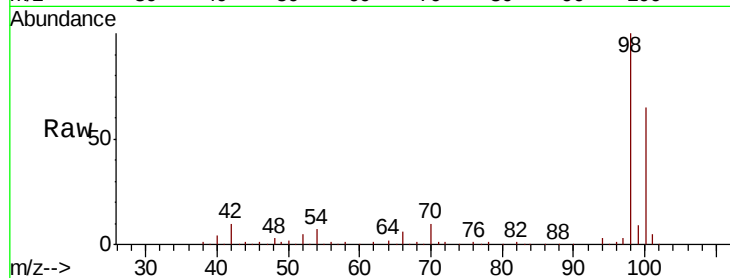
OF-2

Tot Ion: 98 Resp: 292501

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VN056016.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN056016.D (-2572) (-)

10.09

150000

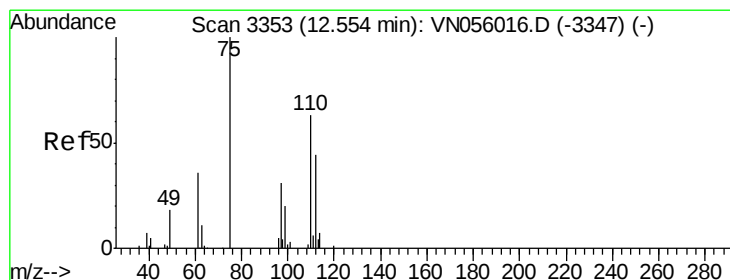
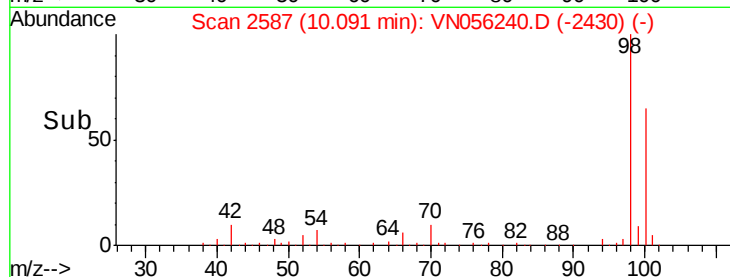
100000

50000

0

10.00 10.10 10.20

Time-->



#72

1,2,3-Trichloropropane

Concen: 10.172 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056240.D

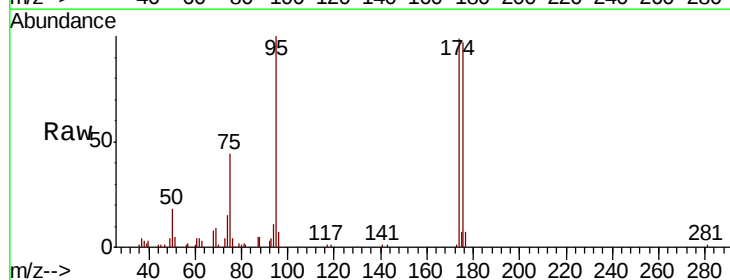
Acq: 12 Jun 2019 11:12

Tgt Ion: 75 Resp: 30700

Ion Ratio Lower Upper

75 100

77 0.4 0.0 350.0



Abundance Ion 75.00 (74.70 to 75.70): VN056016.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN056016.D (-3347) (-)

12.40

20000

15000

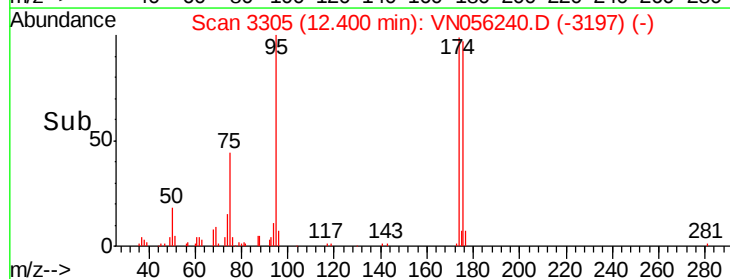
10000

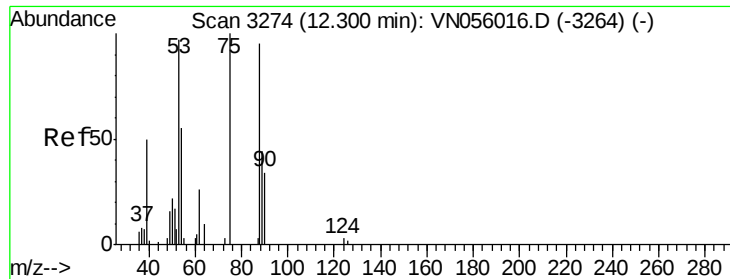
5000

0

12.35 12.40 12.45

Time-->

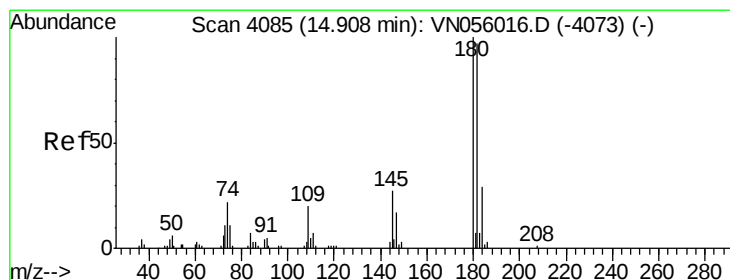
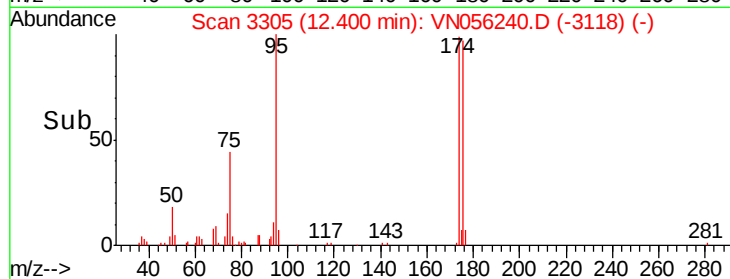
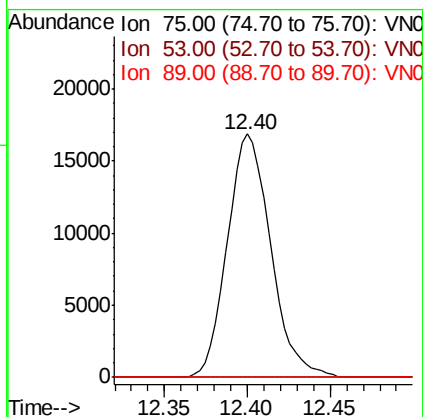
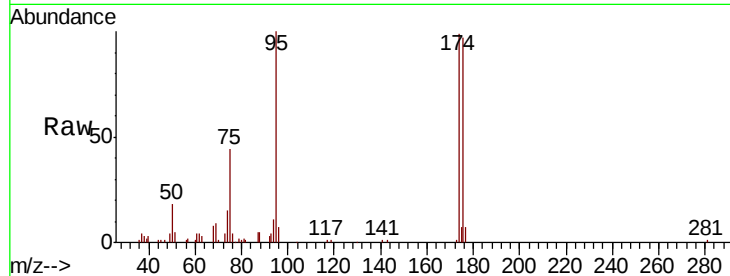




#77
 t-1,4-Dichloro-2-butene
 Concen: 35.649 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN056240.D
 Acq: 12 Jun 2019 11:12

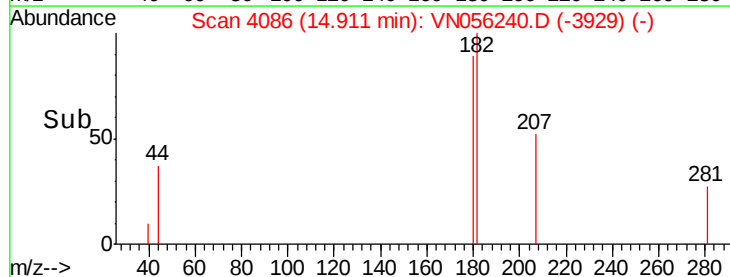
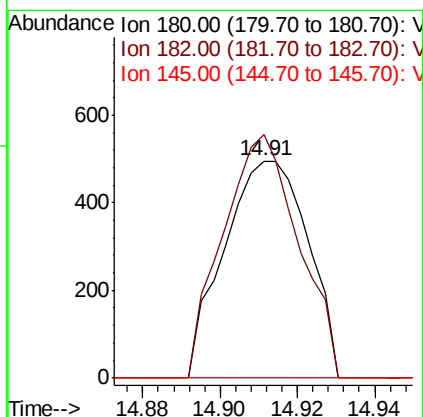
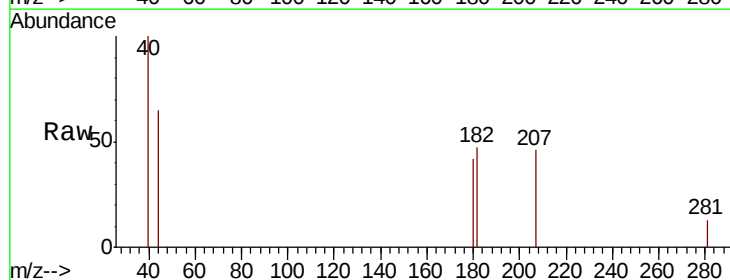
Instrument :
 MSVOA_N
 ClientSampled :
 OF-2

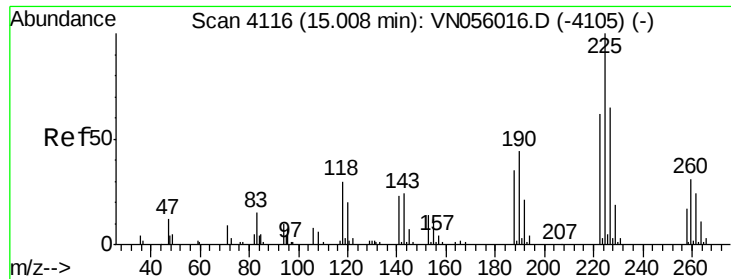
Tot Ion: 75 Resp: 30700
 Ion Ratio Lower Upper
 75 100
 53 0.0 48.0 144.0#
 89 0.0 22.5 67.5#



#89
 1,2,4-Trichlorobenzene
 Concen: 8.768 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN056240.D
 Acq: 12 Jun 2019 11:12

Tgt Ion:180 Resp: 744
 Ion Ratio Lower Upper
 180 100
 182 101.2 75.0 112.6
 145 0.0 22.1 33.1#





#90

Hexachlorobutadiene

Concen: 0.217 ug/l

RT: 15.00 min Scan# 4114

Delta R.T. -0.01 min

Lab File: VN056240.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_N

ClientSampled :

OF-2

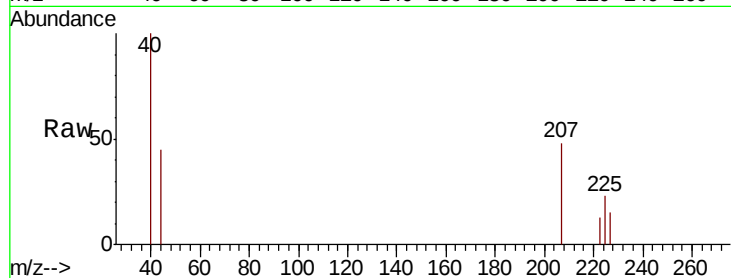
Tot Ion:225 Resp: 386

Ion Ratio Lower Upper

225 100

223 32.9 0.0 125.6

227 30.8 0.0 128.6

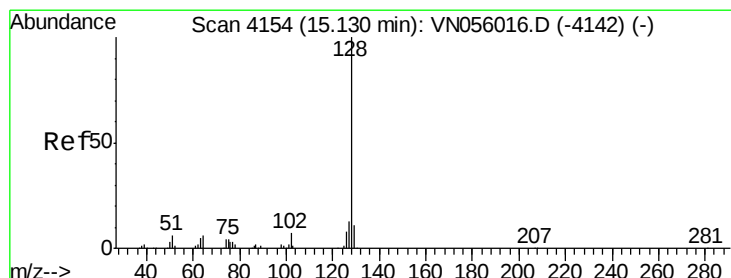
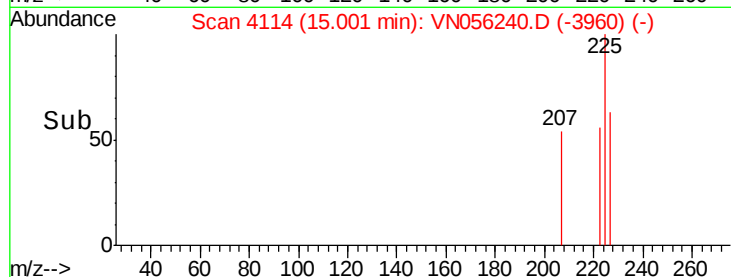
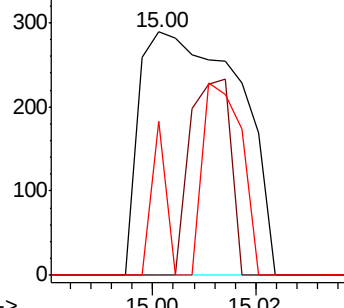


Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 0.473 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056240.D

Acq: 12 Jun 2019 11:12

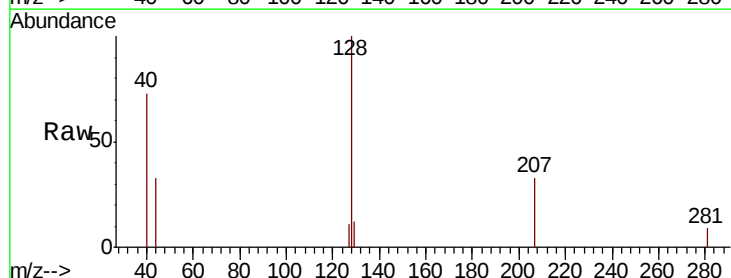
Tgt Ion:128 Resp: 3056

Ion Ratio Lower Upper

128 100

127 3.4 10.4 15.6#

129 3.5 8.7 13.1#

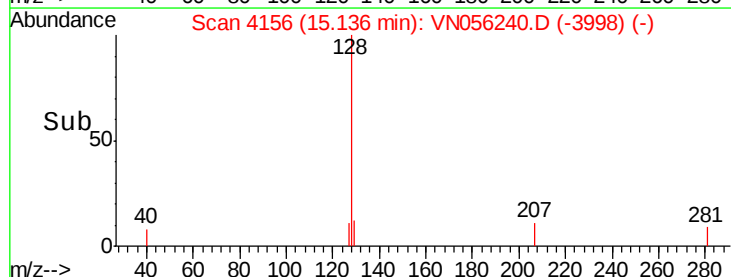
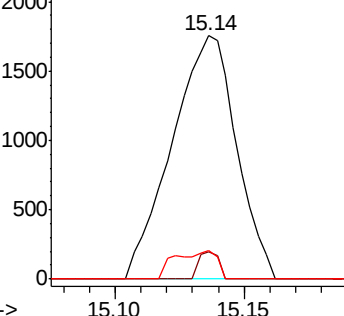


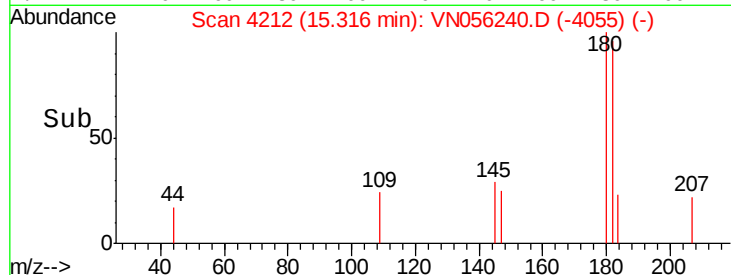
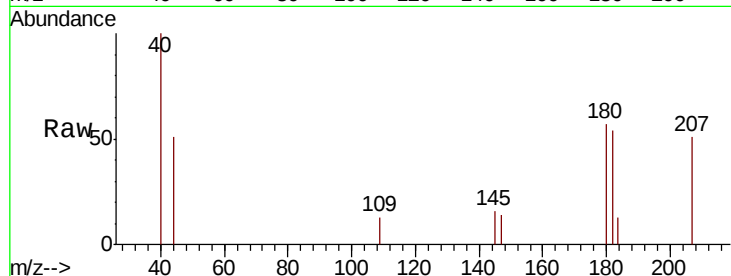
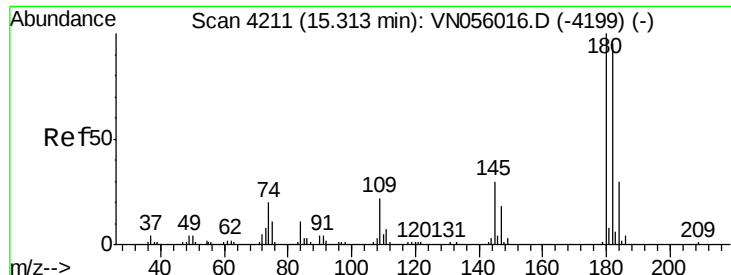
Abundance

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





#92
 1,2,3-Trichlorobenzene
 Concen: 0.437 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN056240.D
 Acq: 12 Jun 2019 11:12

Instrument :
 MSVOA_N
 ClientSampleId :
 OF-2

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.2	0.0	193.4
145	12.3	0.0	59.8

