

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072419\
 Data File : VN056895.D
 Acq On : 23 Jul 2019 23:54
 Operator : JC/SP
 Sample : K3969-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 24 03:49:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 03:39:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	55186	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	285878	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	223882	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	110219	30.52	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.73%
60) 4-Bromofluorobenzene	12.40	95	71918	21.43	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	71.43%
63) Toluene-d8	10.09	98	339547	32.11	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.03%

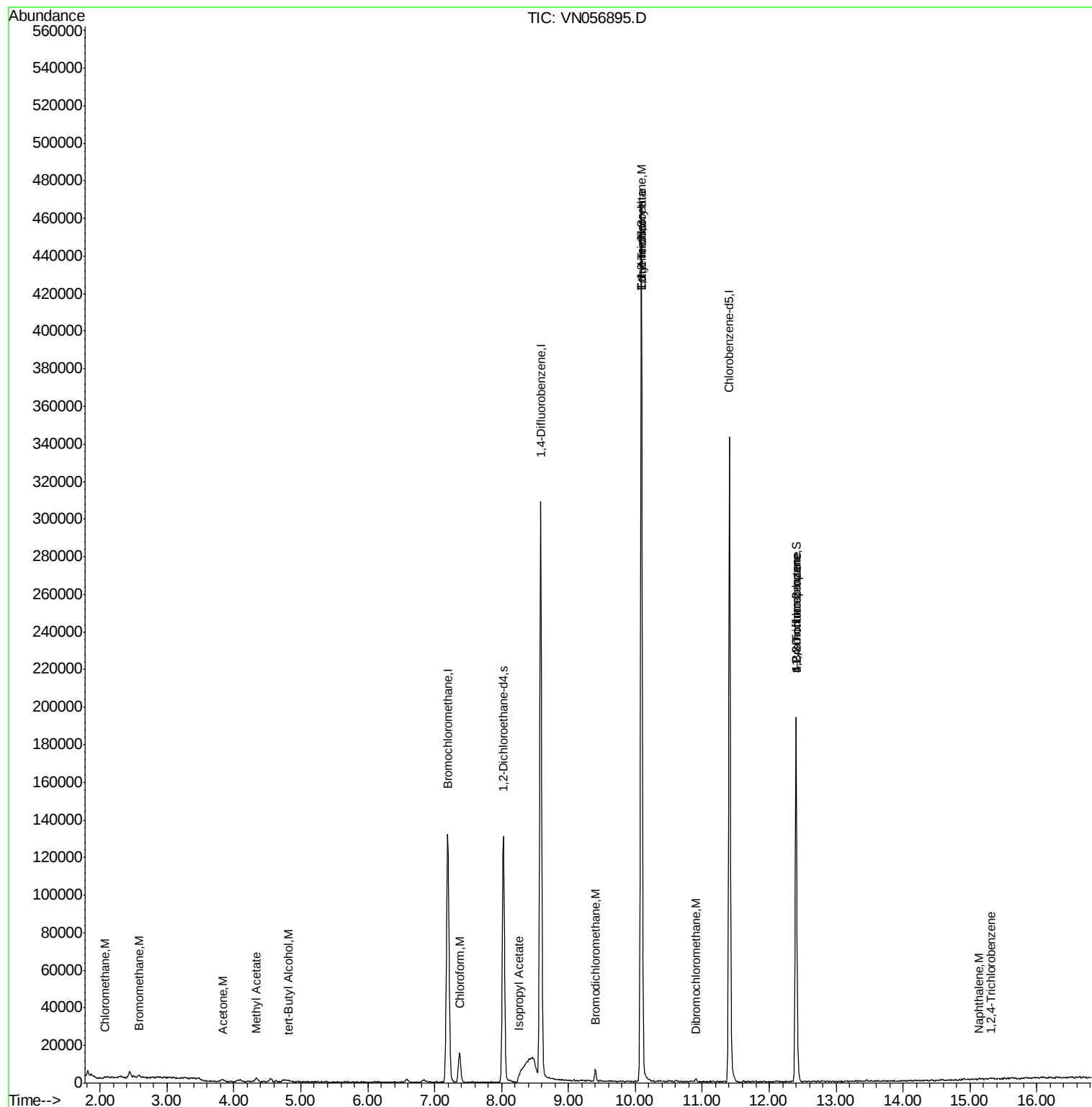
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	2.06	50	1032	0.256	ug/l	100
5) Bromomethane	2.57	94	573	0.240	ug/l	96
12) Methyl Acetate	4.34	43	4430	1.229	ug/l	97
15) Acetone	3.82	58	402	1.118	ug/l #	1
23) tert-Butyl Alcohol	4.81	59	109	0.235	ug/l #	100
25) Chloroform	7.37	83	17175	3.026	ug/l	96
41) Bromodichloromethane	9.40	83	4426	1.100	ug/l #	93
44) Isopropyl Acetate	8.25	43	1126	0.202	ug/l #	46
50) 1,1,2-Trichloroethane	10.10	97	10683	3.555	ug/l #	1
51) Ethyl methacrylate	10.09	69	951	0.219	ug/l	79
53) Dibromochloromethane	10.90	129	1158	0.371	ug/l	99
72) 1,2,3-Trichloropropane	12.40	75	33299	10.909	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	33299	34.744	ug/l #	11
89) 1,2,4-Trichlorobenzene	15.30	180	59	8.023	ug/l #	12
91) Naphthalene	15.14	128	555	7.754	ug/l #	69

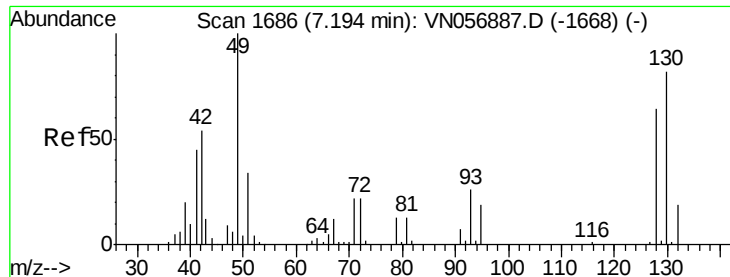
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN072419\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jul 24 03:39:51 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: VN056895.D

Acq: 23 Jul 2019 23:54

Instrument :
MSVOA_N
ClientSampleId :

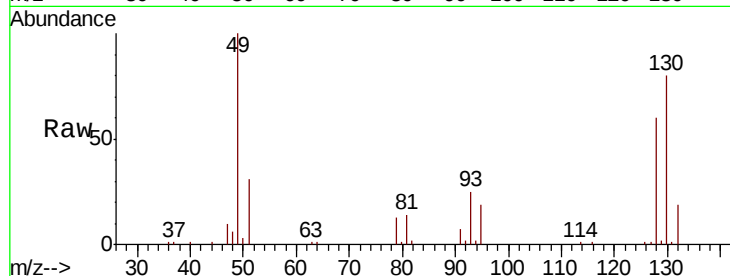
Tot Ion:128 Resp: 55186

Ion Ratio Lower Upper

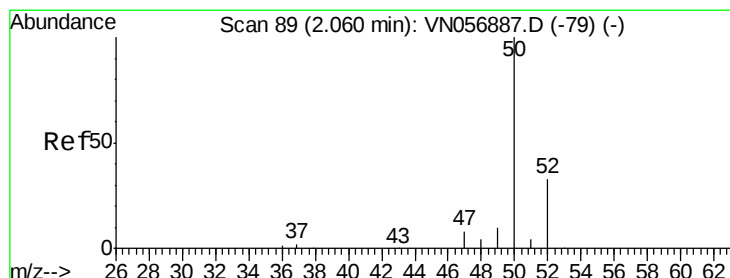
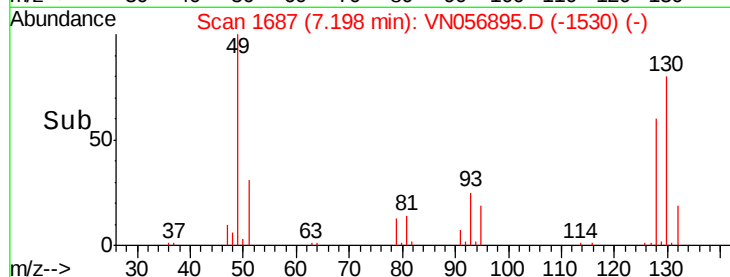
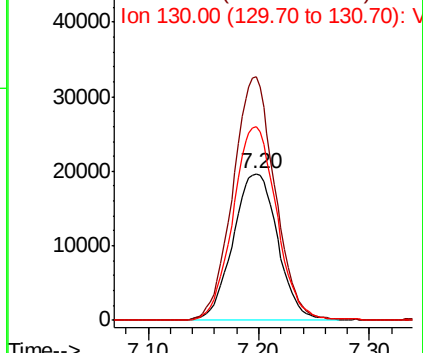
128 100

49 156.5 0.0 385.8

130 128.8 0.0 322.5



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.256 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056895.D

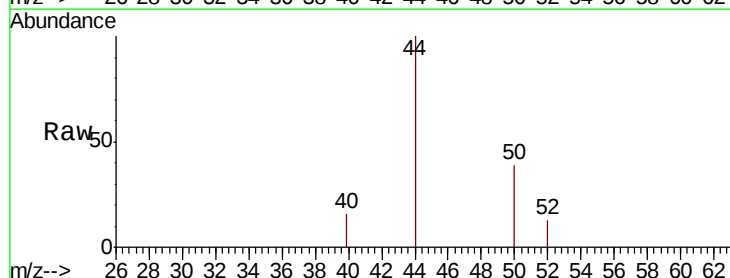
Acq: 23 Jul 2019 23:54

Tgt Ion: 50 Resp: 1032

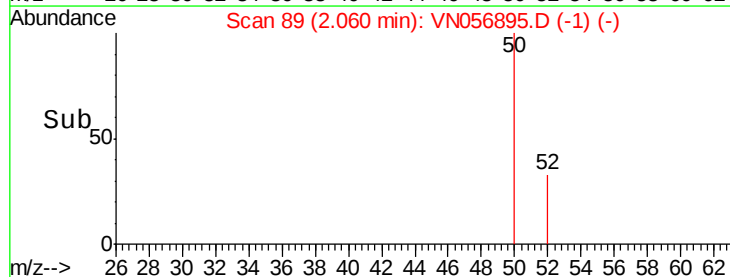
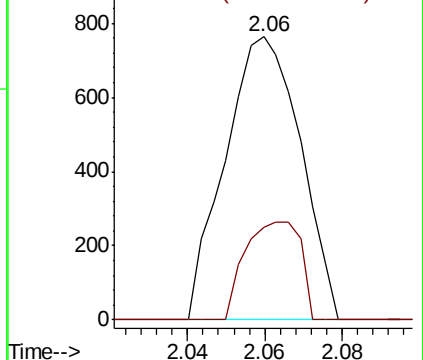
Ion Ratio Lower Upper

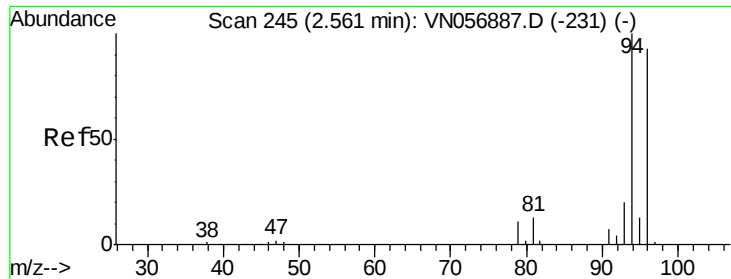
50 100

52 32.9 26.2 39.2



Abundance Ion 50.00 (49.70 to 50.70): VN
Ion 52.00 (51.70 to 52.70): VN

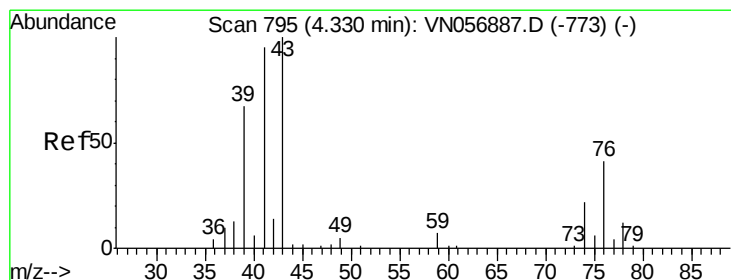
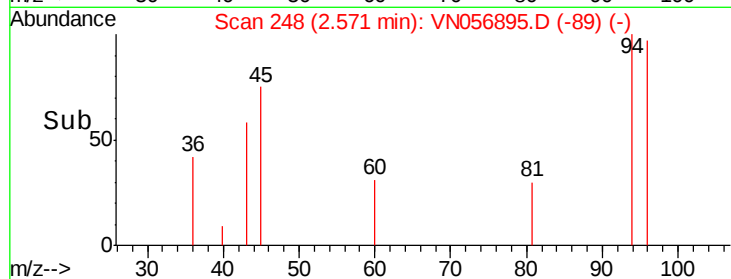
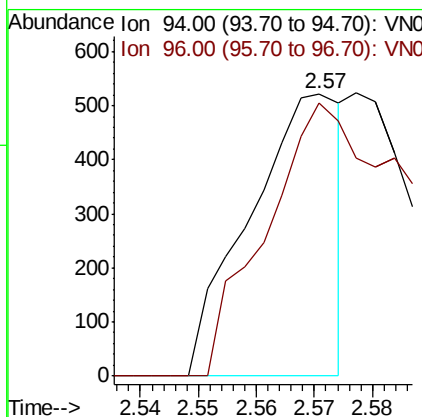
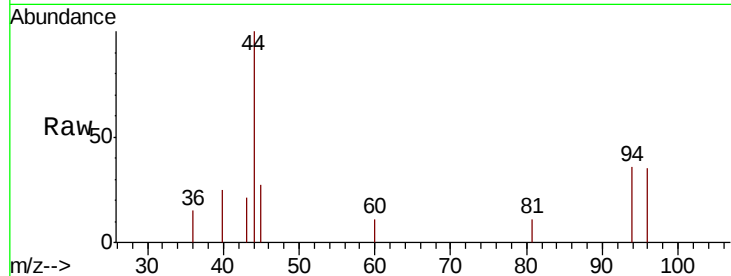




#5
 Bromomethane
 Concen: 0.240 ug/l
 RT: 2.57 min Scan# 248
 Delta R.T. 0.01 min
 Lab File: VN056895.D
 Acq: 23 Jul 2019 23:54

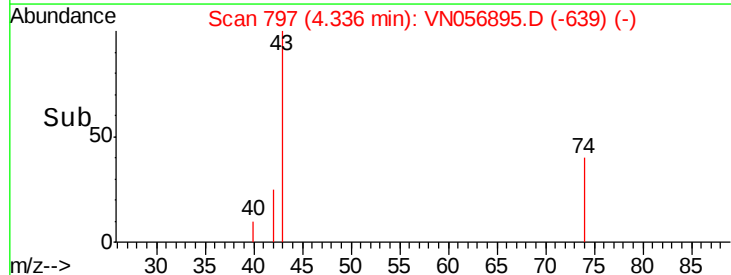
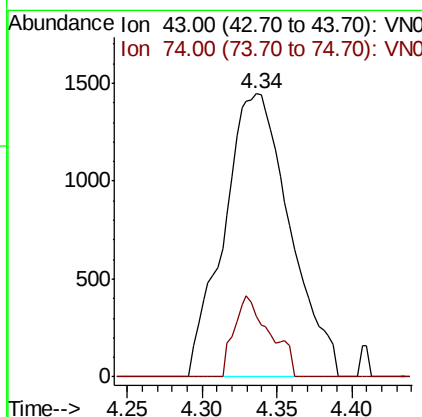
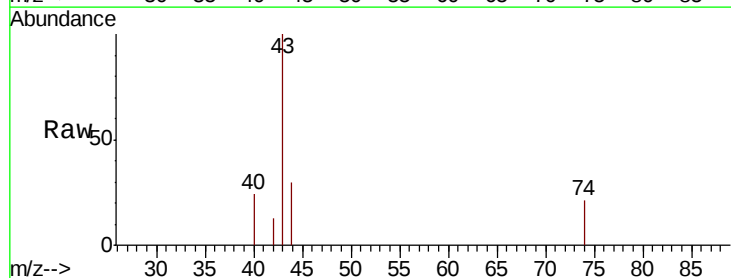
Instrument :
 MSVOA_N
 ClientSampled :

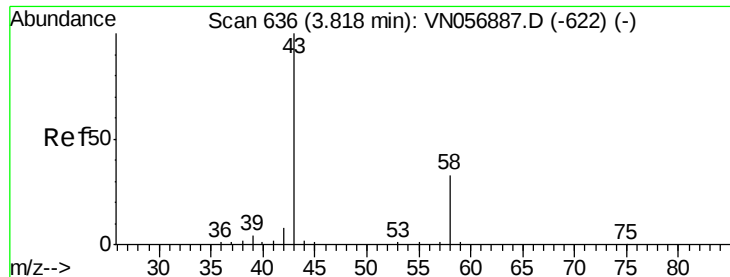
Tot Ion: 94 Resp: 573
 Ion Ratio Lower Upper
 94 100
 96 96.9 74.7 112.1



#12
 Methyl Acetate
 Concen: 1.229 ug/l
 RT: 4.34 min Scan# 797
 Delta R.T. 0.01 min
 Lab File: VN056895.D
 Acq: 23 Jul 2019 23:54

Tgt Ion: 43 Resp: 4430
 Ion Ratio Lower Upper
 43 100
 74 21.2 18.1 27.1





#15

Acetone

Concen: 1.118 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056895.D

Acq: 23 Jul 2019 23:54

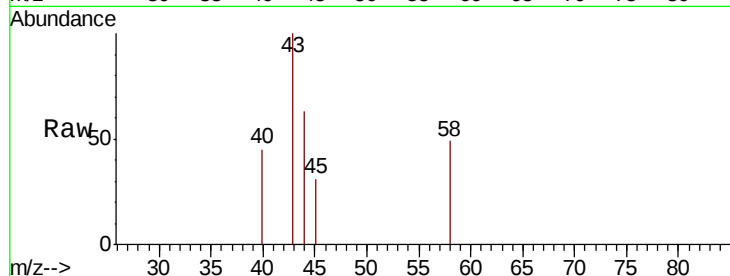
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 58 Resp: 402

Ion Ratio Lower Upper

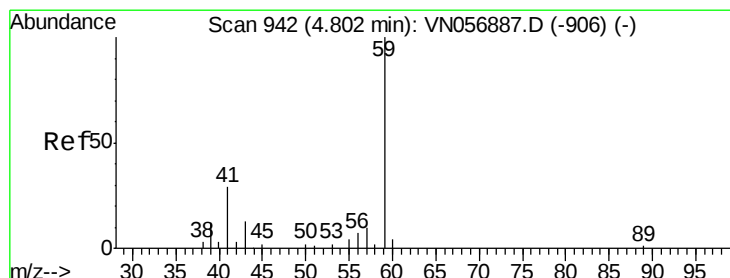
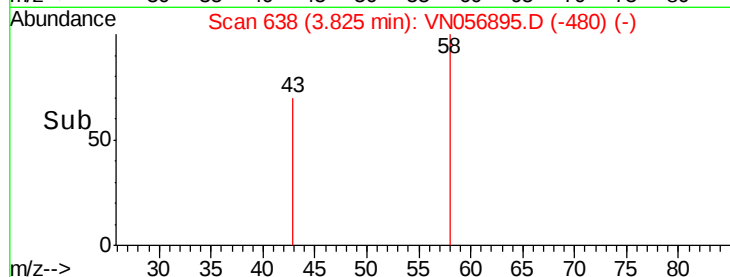
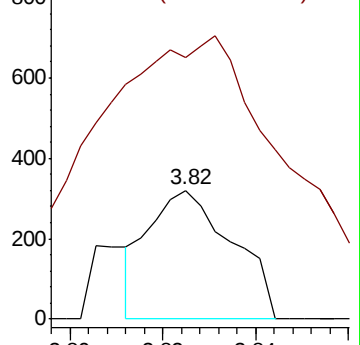
58 100

43 71.3 242.4 363.6#



Abundance Ion 58.00 (57.70 to 58.70): VN056887.D (-622) (-)

Ion 43.00 (42.70 to 43.70): VN056887.D (-622) (-)



#23

tert-Butyl Alcohol

Concen: 0.235 ug/l

RT: 4.81 min Scan# 943

Delta R.T. 0.00 min

Lab File: VN056895.D

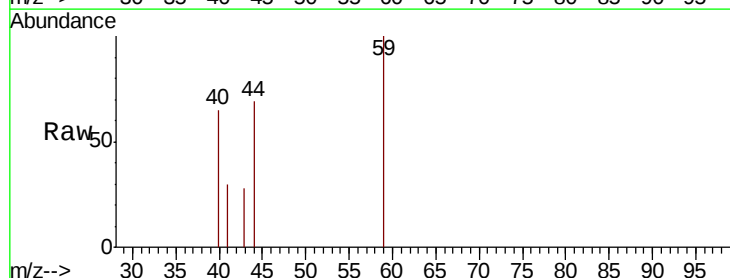
Acq: 23 Jul 2019 23:54

Tgt Ion: 59 Resp: 109

Ion Ratio Lower Upper

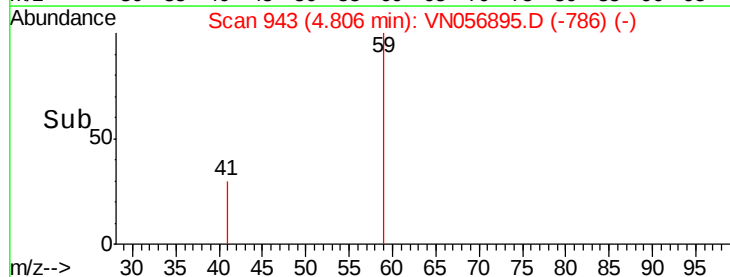
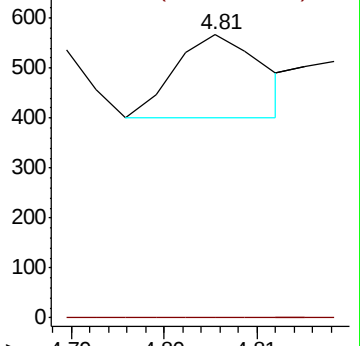
59 100

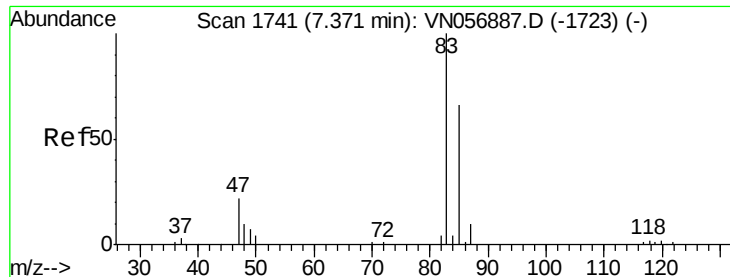
52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN056887.D (-906) (-)

Ion 52.00 (51.70 to 52.70): VN056887.D (-906) (-)

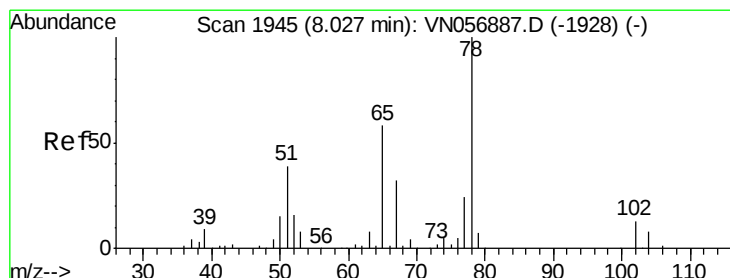
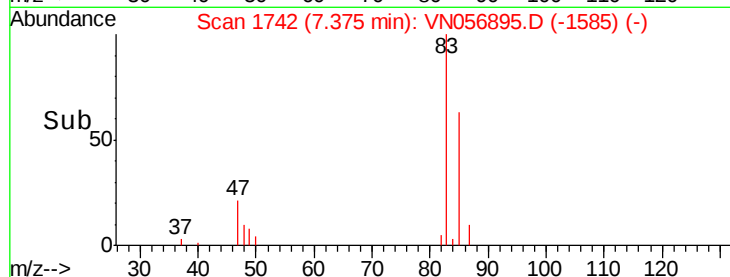
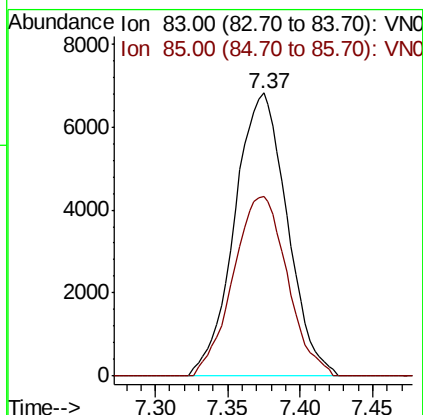
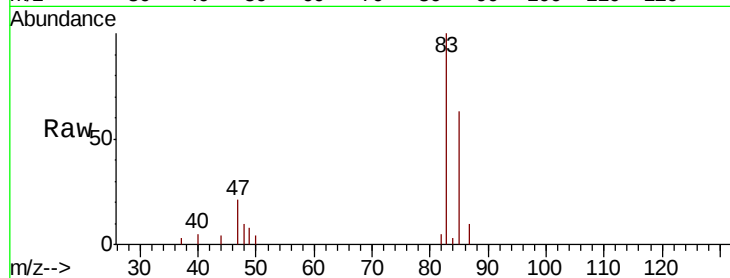




#25
Chloroform
Concen: 3.026 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN056895.D
Acq: 23 Jul 2019 23:54

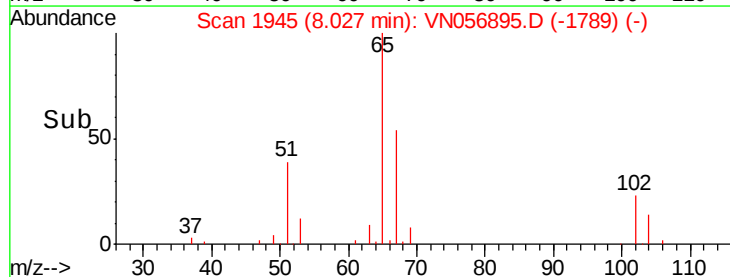
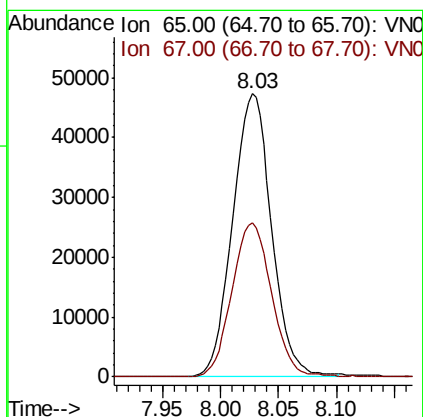
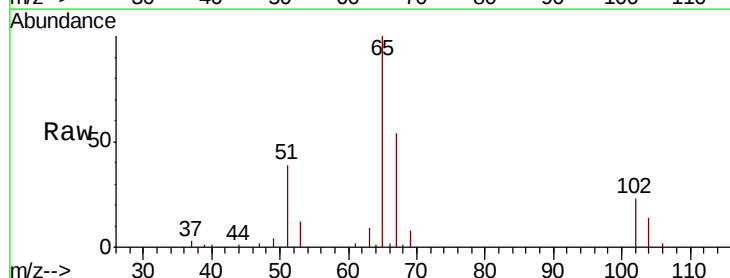
Instrument :
MSVOA_N
ClientSampleId :

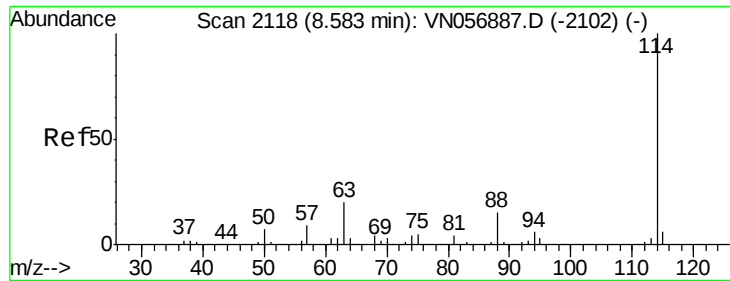
Tot Ion: 83 Resp: 17175
Ion Ratio Lower Upper
83 100
85 63.5 53.1 79.7



#27
1,2-Dichloroethane-d4
Concen: 30.518 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056895.D
Acq: 23 Jul 2019 23:54

Tgt Ion: 65 Resp: 110219
Ion Ratio Lower Upper
65 100
67 55.5 44.6 66.8

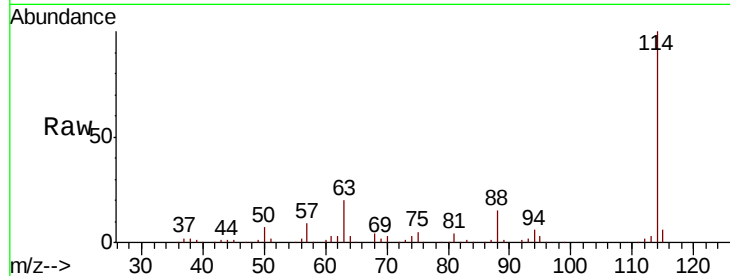




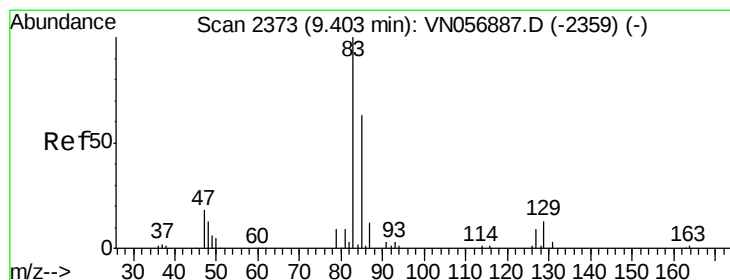
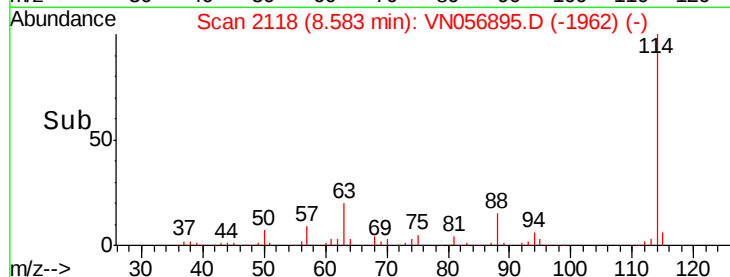
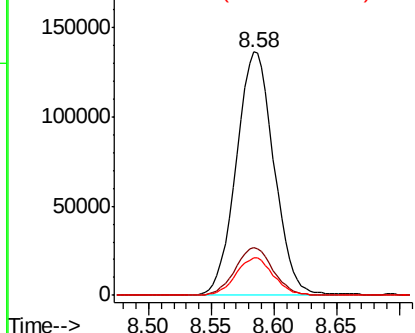
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056895.D
 Acq: 23 Jul 2019 23:54

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 285878
 Ion Ratio Lower Upper
 114 100
 63 19.6 15.8 23.6
 88 15.4 12.5 18.7

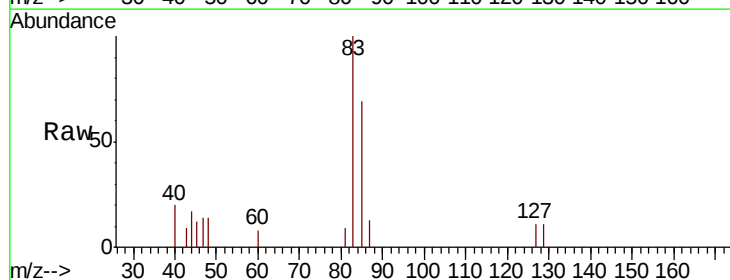


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 88.00 (87.70 to 88.70): VN

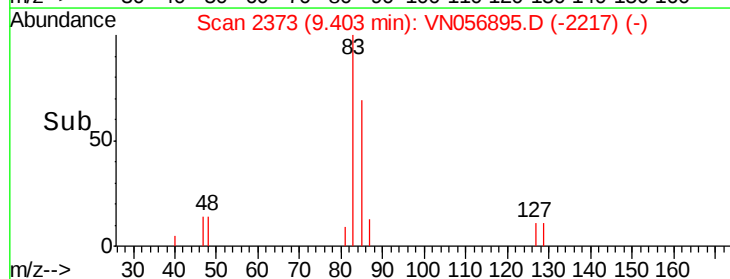
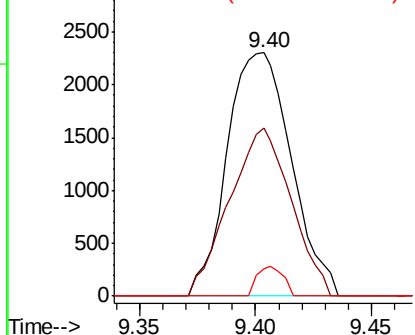


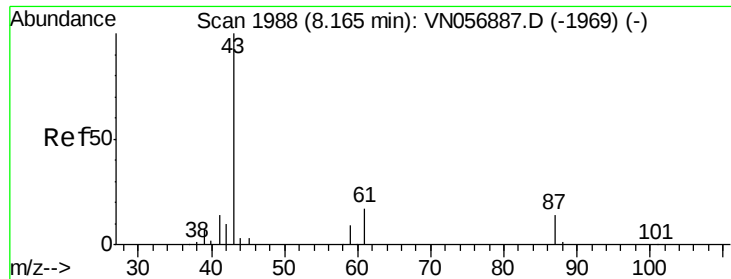
#41
 Bromodichloromethane
 Concen: 1.100 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. 0.00 min
 Lab File: VN056895.D
 Acq: 23 Jul 2019 23:54

Tgt Ion: 83 Resp: 4426
 Ion Ratio Lower Upper
 83 100
 85 68.9 50.6 75.8
 127 11.2 7.2 10.8#



Abundance Ion 83.00 (82.70 to 83.70): VN
 Ion 85.00 (84.70 to 85.70): VN
 Ion 127.00 (126.70 to 127.70): V



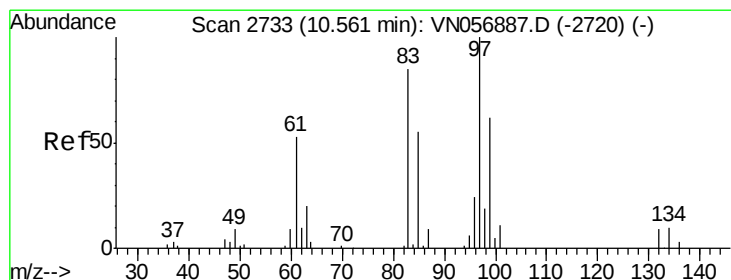
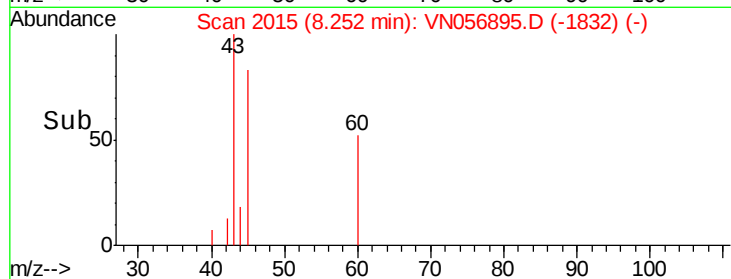
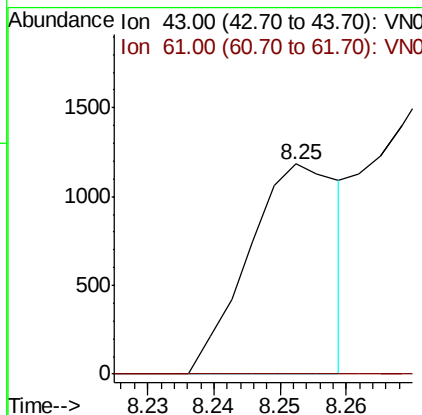
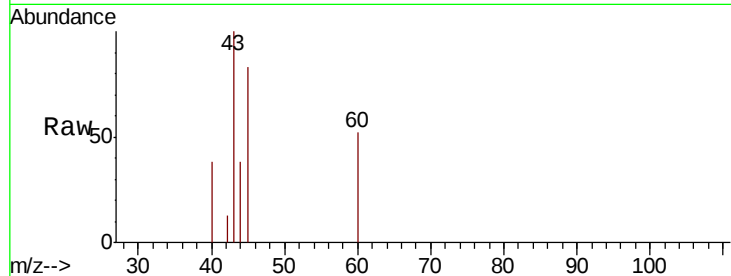


#44

Isopropyl Acetate
 Concen: 0.202 ug/l
 RT: 8.25 min Scan# 2015
 Delta R.T. 0.09 min
 Lab File: VN056895.D
 Acq: 23 Jul 2019 23:54

Instrument :
 MSVOA_N
 ClientSampleId :

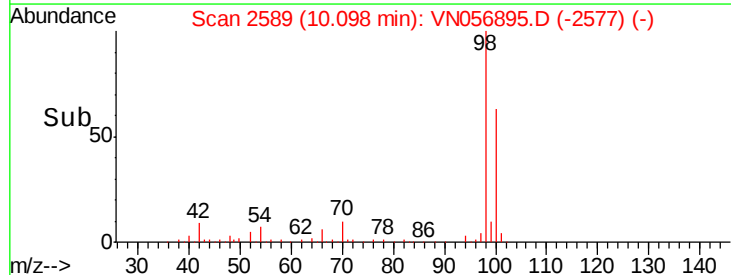
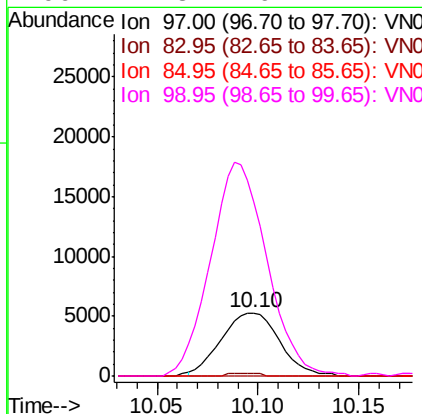
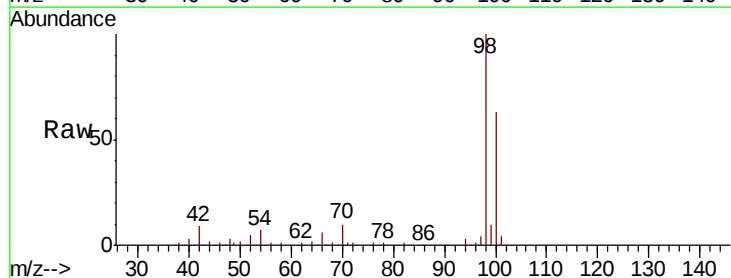
Tot Ion: 43 Resp: 1126
 Ion Ratio Lower Upper
 43 100
 61 0.0 23.0 34.4#

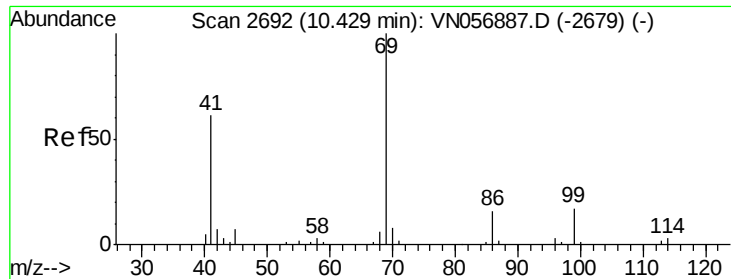


#50

1,1,2-Trichloroethane
 Concen: 3.555 ug/l
 RT: 10.10 min Scan# 2589
 Delta R.T. -0.46 min
 Lab File: VN056895.D
 Acq: 23 Jul 2019 23:54

Tgt Ion: 97 Resp: 10683
 Ion Ratio Lower Upper
 97 100
 83 3.9 68.4 102.6#
 85 0.0 44.3 66.5#
 99 272.3 49.4 74.2#





#51

Ethyl methacrylate

Concen: 0.219 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN056895.D

Acq: 23 Jul 2019 23:54

Instrument :

MSVOA_N

ClientSampled :

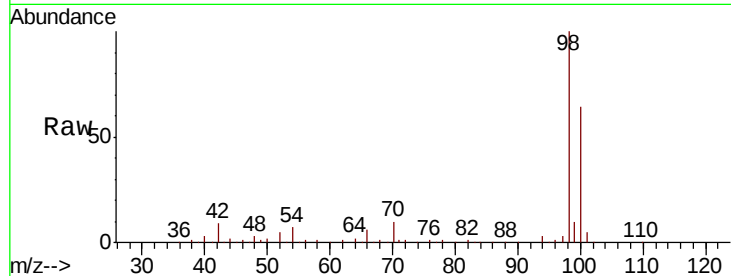
Tot Ion: 69 Resp: 951

Ion Ratio Lower Upper

69 100

41 76.4 30.4 91.3

39 39.9 14.2 42.6



Abundance Ion 69.00 (68.70 to 69.70): VN056887.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN056887.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN056887.D (-2679) (-)

10.09

400

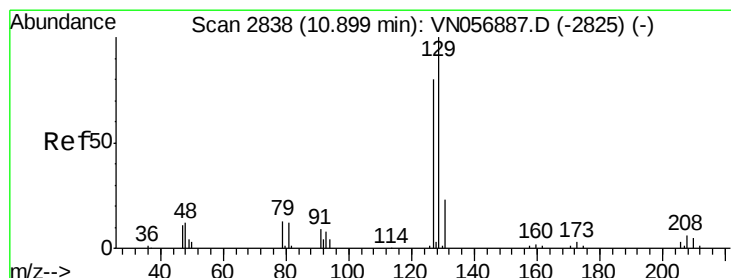
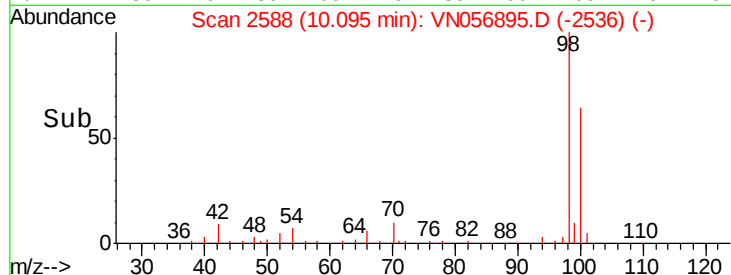
200

0

10.05

10.10

Time-->



#53

Dibromochloromethane

Concen: 0.371 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN056895.D

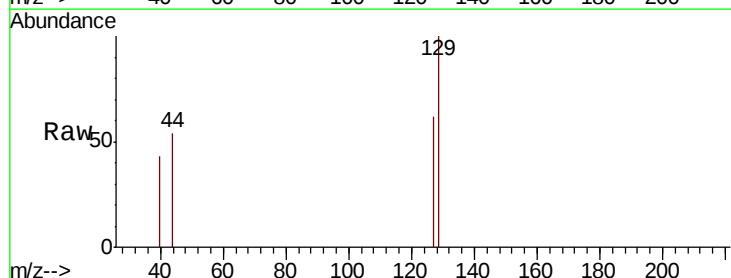
Acq: 23 Jul 2019 23:54

Tgt Ion: 129 Resp: 1158

Ion Ratio Lower Upper

129 100

127 78.7 38.8 116.4



Abundance Ion 129.00 (128.70 to 129.70): VN056887.D (-2825) (-)

Ion 127.00 (126.70 to 127.70): VN056887.D (-2825) (-)

10.90

800

600

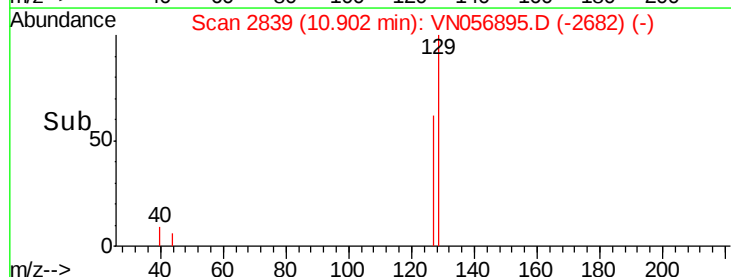
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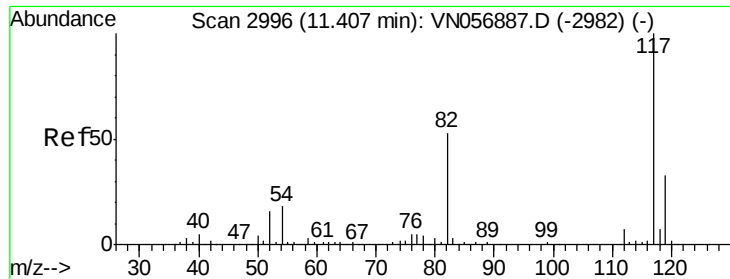
200

0

10.90

Time-->

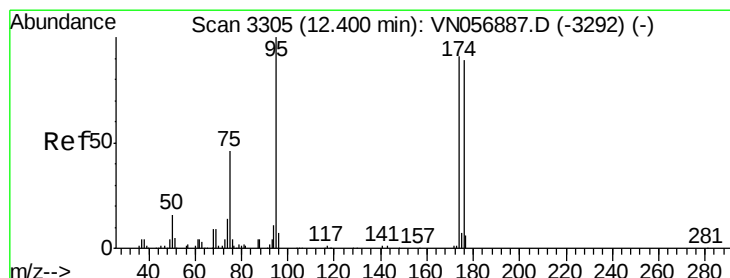
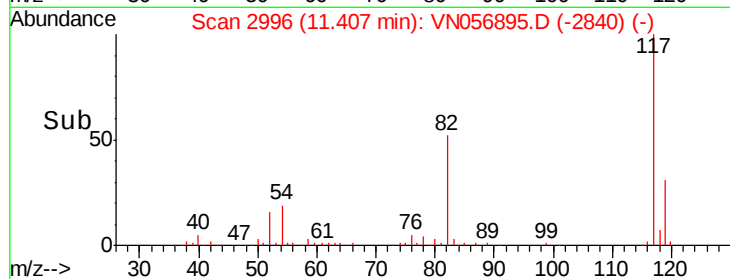
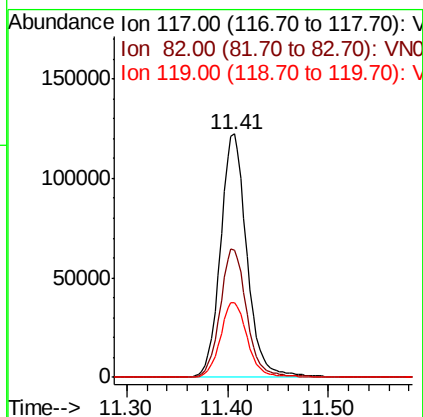
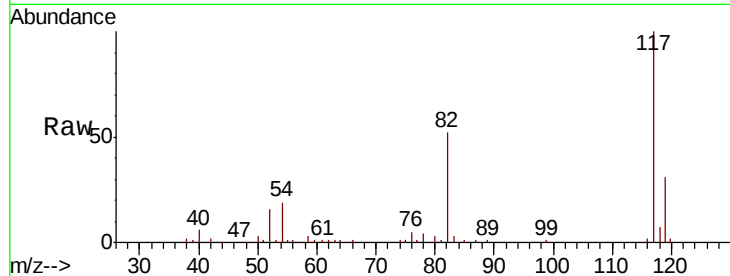




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056895.D
Acq: 23 Jul 2019 23:54

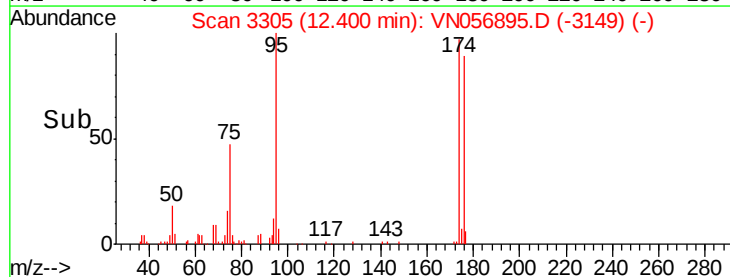
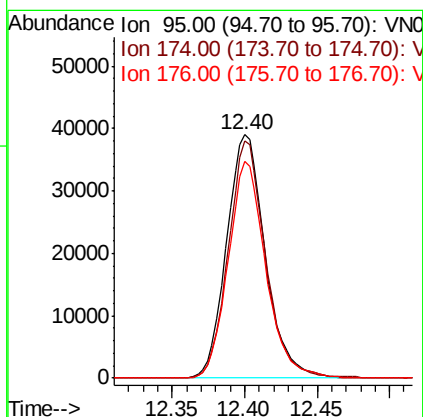
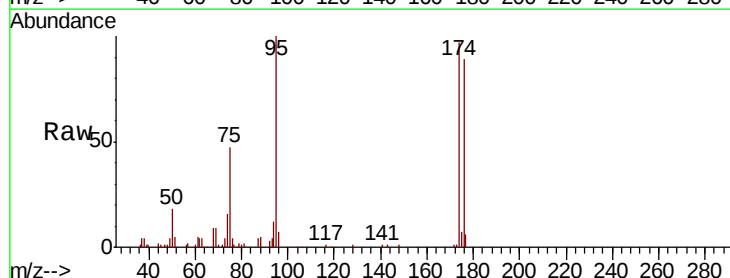
Instrument :
MSVOA_N
ClientSampleId :

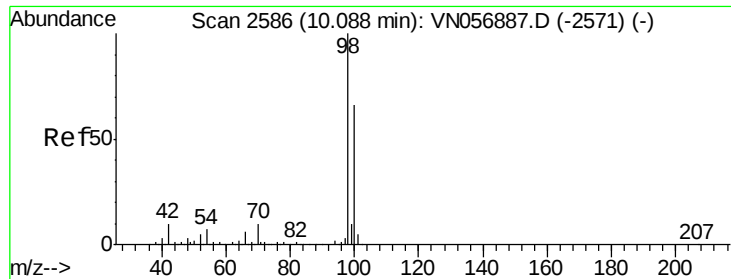
Tot Ion:117 Resp: 223882
Ion Ratio Lower Upper
117 100
82 53.0 43.0 64.4
119 31.7 26.2 39.2



#60
4-Bromofluorobenzene
Concen: 21.433 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056895.D
Acq: 23 Jul 2019 23:54

Tgt Ion: 95 Resp: 71918
Ion Ratio Lower Upper
95 100
174 93.9 71.9 107.9
176 86.7 69.8 104.8





#63

Toluene-d8

Concen: 32.107 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056895.D

Acq: 23 Jul 2019 23:54

Instrument :

MSVOA_N

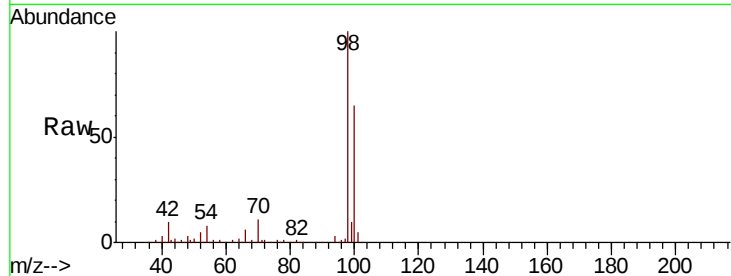
ClientSampleId :

Tot Ion: 98 Resp: 339547

Ion Ratio Lower Upper

98 100

100 64.2 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

200000

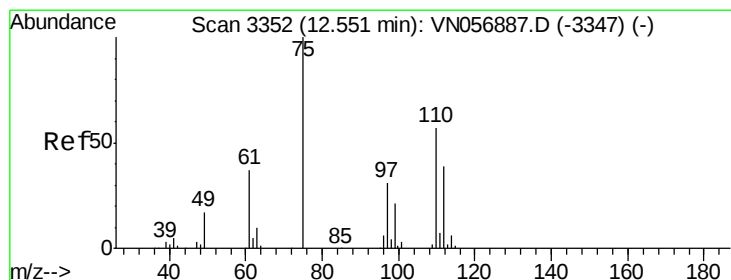
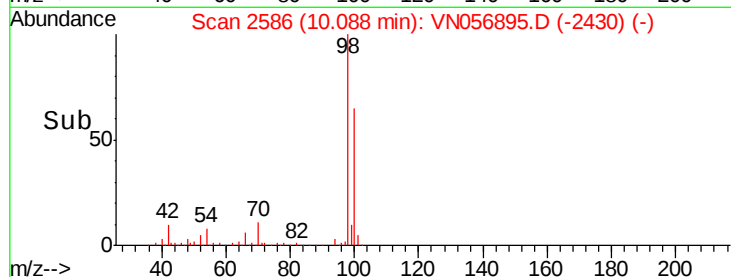
150000

100000

50000

0

Time-->



#72

1,2,3-Trichloropropane

Concen: 10.909 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056895.D

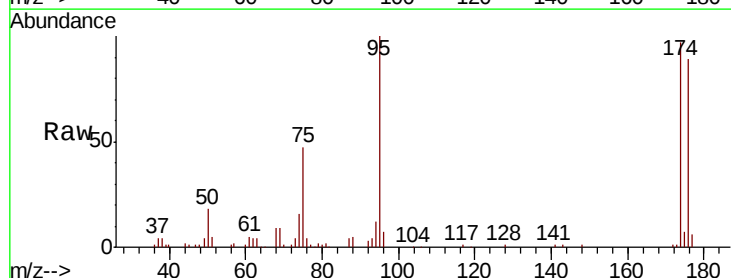
Acq: 23 Jul 2019 23:54

Tgt Ion: 75 Resp: 33299

Ion Ratio Lower Upper

75 100

77 0.5 0.0 378.6



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

20000

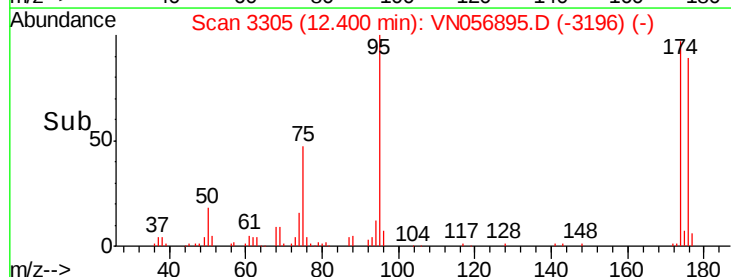
15000

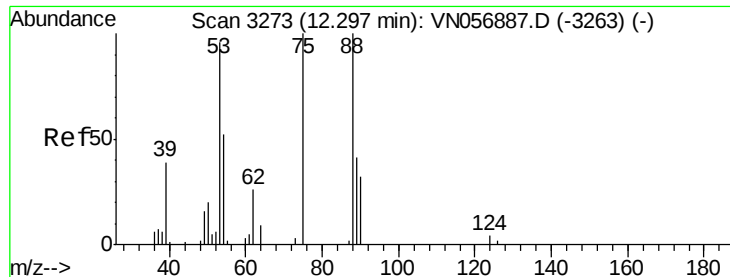
10000

5000

0

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 34.744 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056895.D

Acq: 23 Jul 2019 23:54

Instrument :

MSVOA_N

ClientSampled :

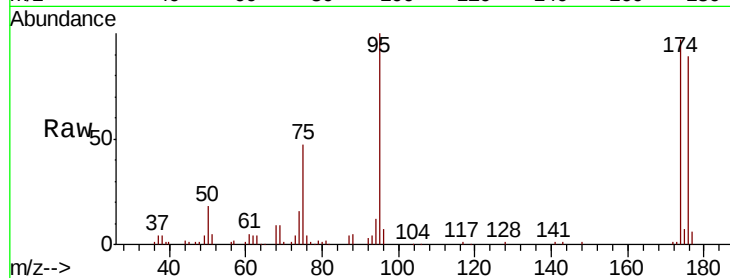
Tot Ion: 75 Resp: 33299

Ion Ratio Lower Upper

75 100

53 0.0 48.0 144.0#

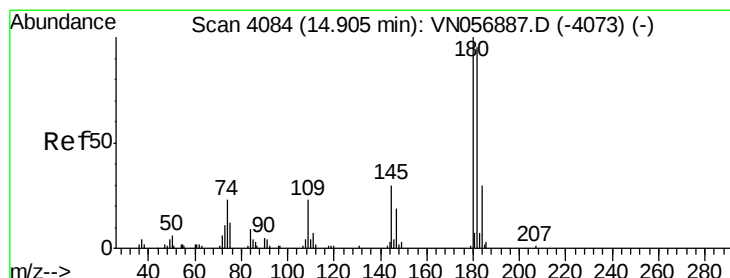
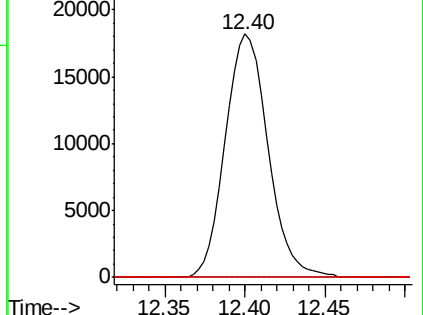
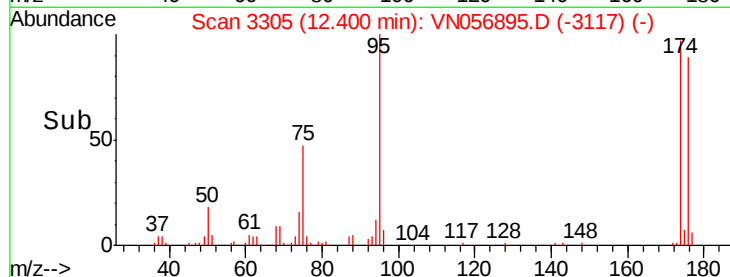
89 0.0 21.4 64.3#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#89

1,2,4-Trichlorobenzene

Concen: 8.023 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.40 min

Lab File: VN056895.D

Acq: 23 Jul 2019 23:54

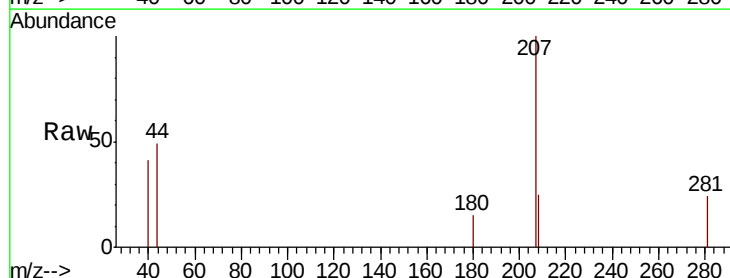
Tgt Ion: 180 Resp: 59

Ion Ratio Lower Upper

180 100

182 0.0 77.0 115.4#

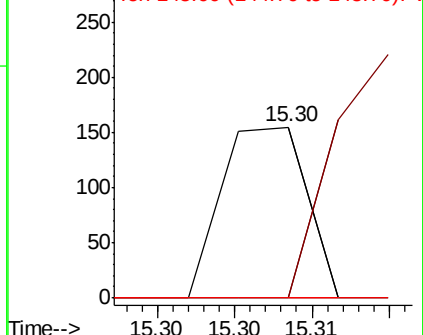
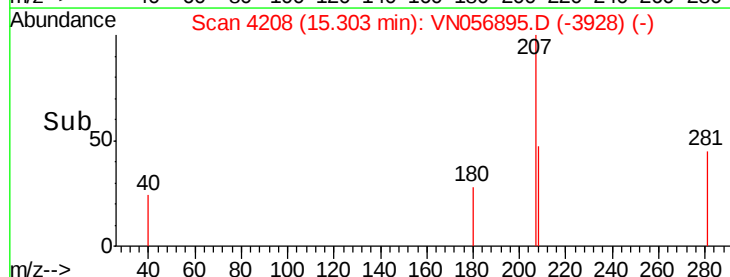
145 0.0 23.5 35.3#

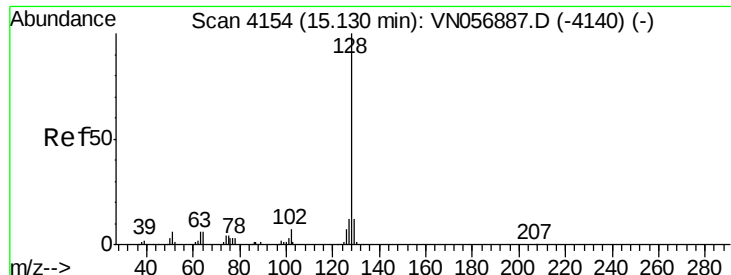


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

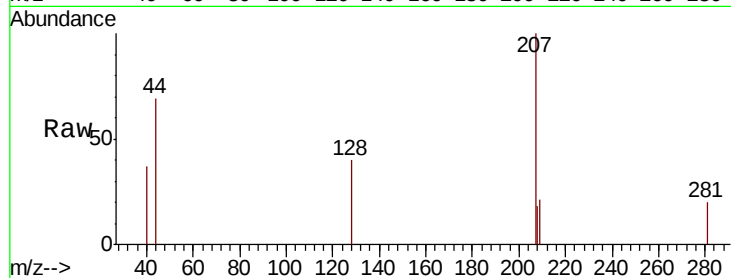




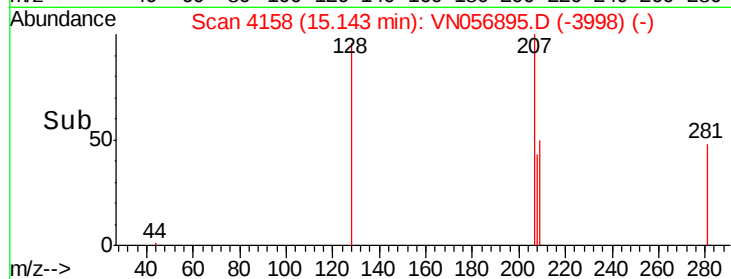
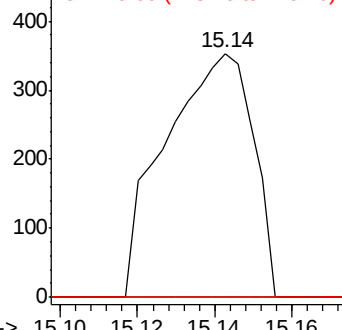
#91
Naphthalene
Concen: 7.754 ug/l
RT: 15.14 min Scan# 4158
Delta R.T. 0.01 min
Lab File: VN056895.D
Acq: 23 Jul 2019 23:54

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 555
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.9 13.3#



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--> 15.10 15.12 15.14 15.16