

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072419\
 Data File : VN056894.D
 Acq On : 23 Jul 2019 23:30
 Operator : JC/SP
 Sample : K3969-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIP-BLANK

Quant Time: Jul 24 03:49:47 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	56912	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	307555	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	231877	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	117881	31.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.50%
60) 4-Bromofluorobenzene	12.40	95	76980	22.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	73.83%
63) Toluene-d8	10.09	98	357257	32.62	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	108.73%

Target Compounds

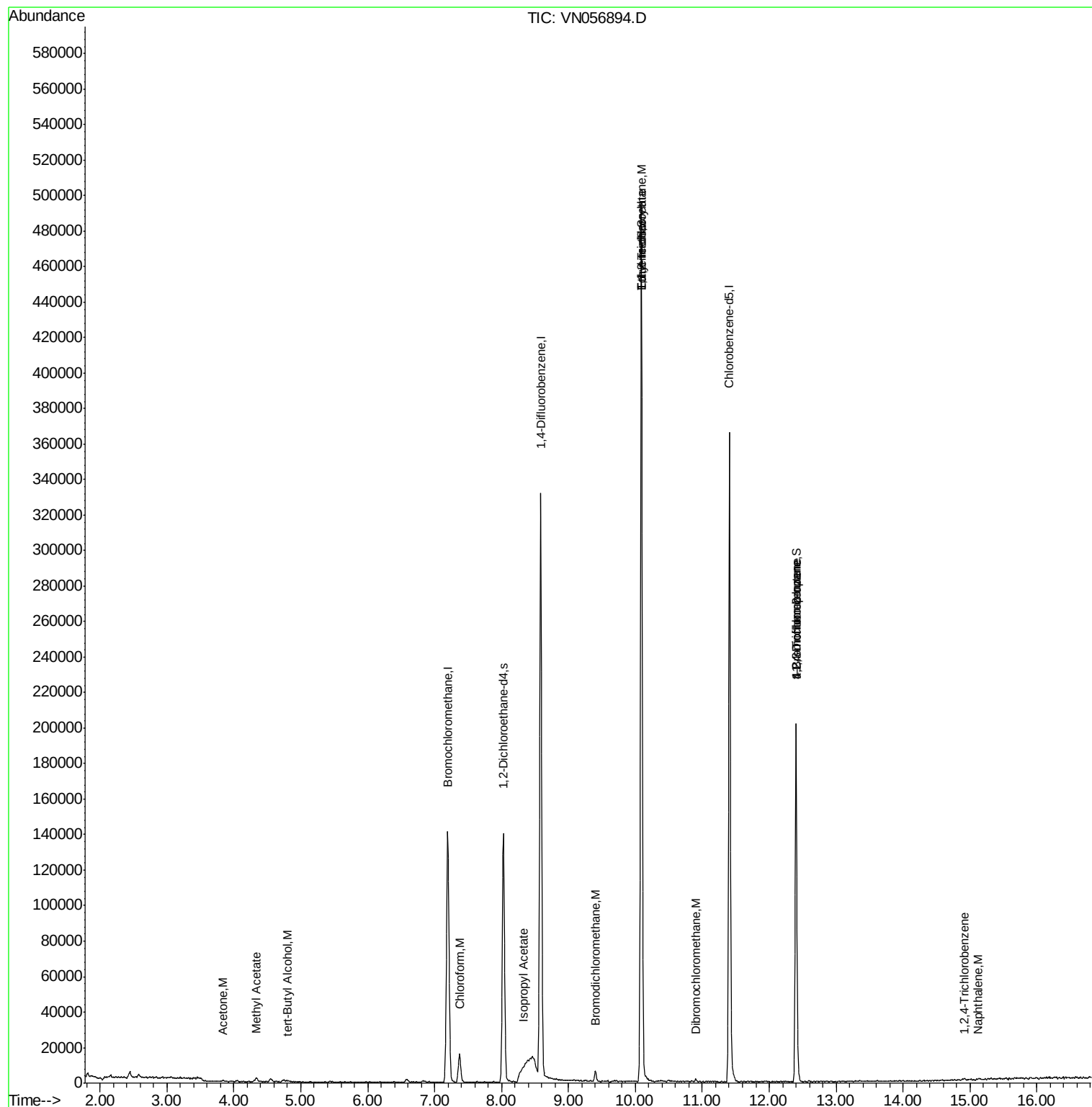
					Ovalue
12) Methyl Acetate	4.33	43	4693	1.262 ug/l #	84
15) Acetone	3.83	58	138	0.372 ug/l #	1
23) tert-Butyl Alcohol	4.80	59	292	0.610 ug/l #	100
25) Chloroform	7.37	83	17417	2.976 ug/l	97
41) Bromodichloromethane	9.40	83	4446	1.027 ug/l #	92
44) Isopropyl Acetate	8.32	43	9604	1.603 ug/l #	46
50) 1,1,2-Trichloroethane	10.09	97	11512	3.561 ug/l #	1
51) Ethyl methacrylate	10.09	69	1058	0.226 ug/l	96
53) Dibromochloromethane	10.90	129	1185	0.353 ug/l	92
72) 1,2,3-Trichloropropane	12.40	75	35292	11.163 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	35292	35.554 ug/l #	11
89) 1,2,4-Trichlorobenzene	14.91	180	352	8.105 ug/l #	26
91) Naphthalene	15.13	128	996	7.800 ug/l #	69

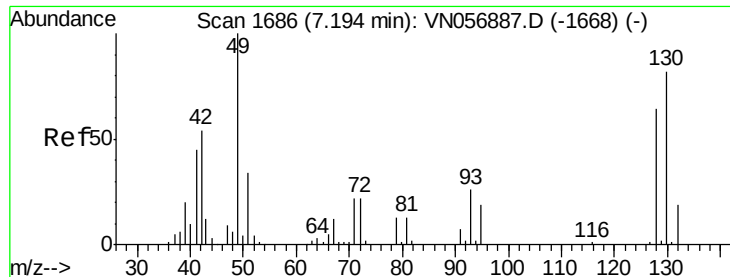
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN072419\
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TRIP-BLANK

Quant Time: Jul 24 03:49:47 2019
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: VN056894.D

Acq: 23 Jul 2019 23:30

Instrument :

MSVOA_N

ClientSampled :

TRIP-BLANK

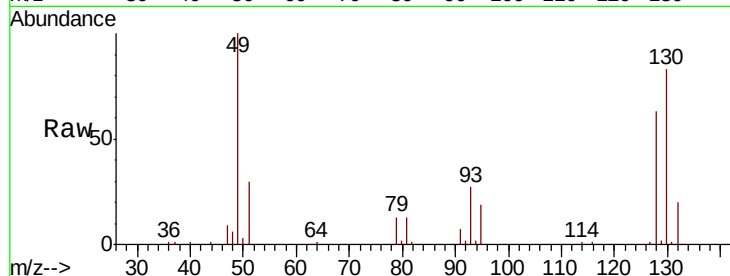
Tot Ion:128 Resp: 56912

Ion Ratio Lower Upper

128 100

49 160.3 0.0 385.8

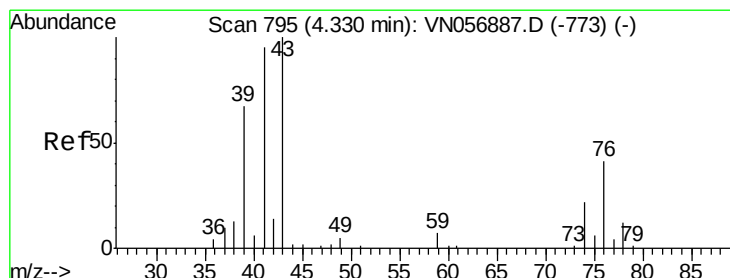
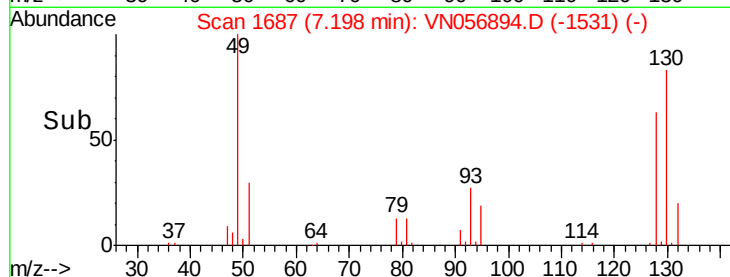
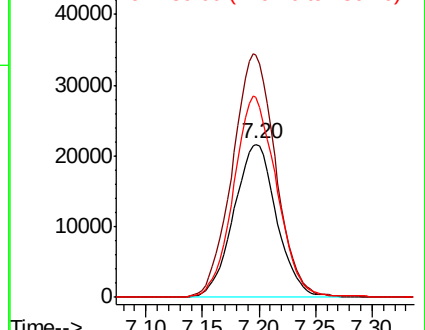
130 132.0 0.0 322.5



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



#12

Methyl Acetate

Concen: 1.262 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN056894.D

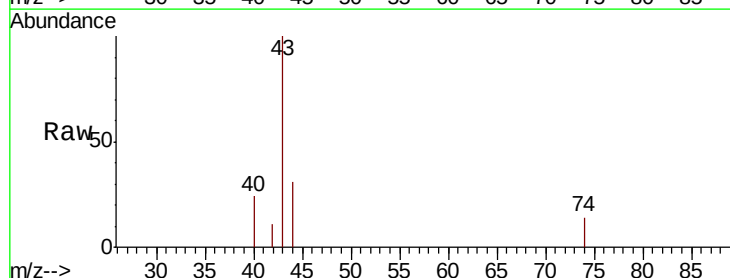
Acq: 23 Jul 2019 23:30

Tgt Ion: 43 Resp: 4693

Ion Ratio Lower Upper

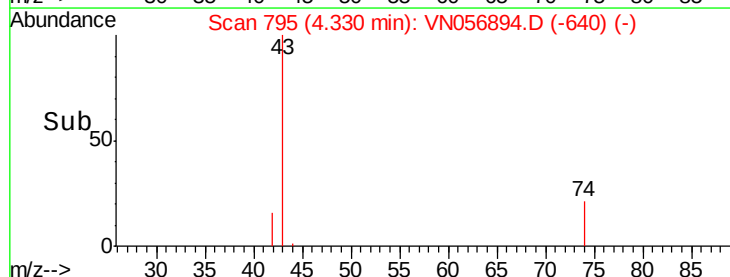
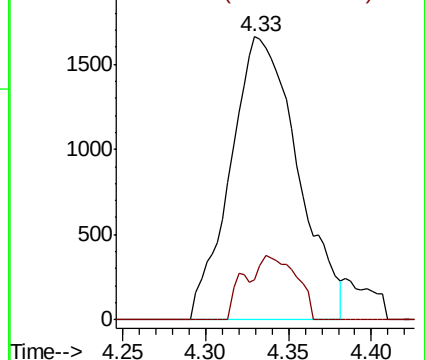
43 100

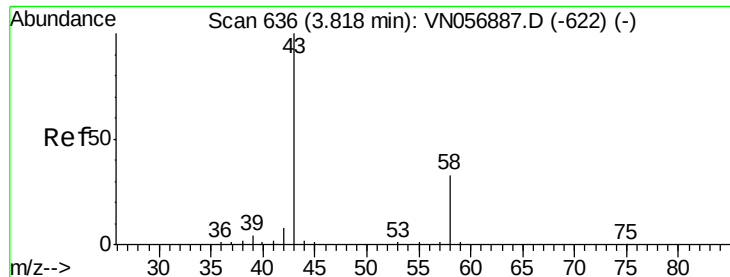
74 15.0 18.1 27.1#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 74.00 (73.70 to 74.70): VN





#15

Acetone

Concen: 0.372 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056894.D

Acq: 23 Jul 2019 23:30

Instrument :

MSVOA_N

ClientSampleId :

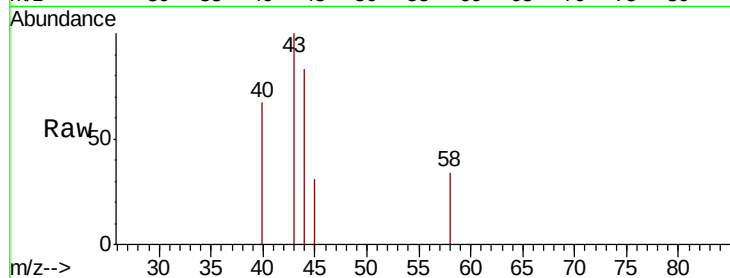
TRIP-BLANK

Tot Ion: 58 Resp: 138

Ion Ratio Lower Upper

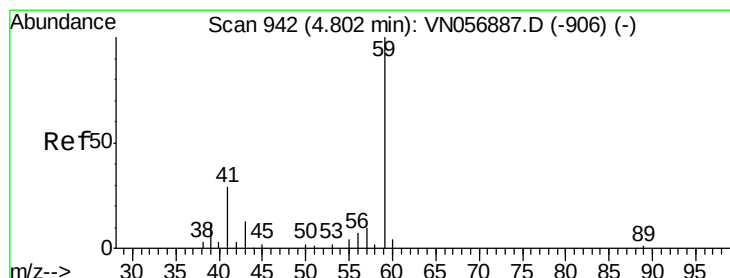
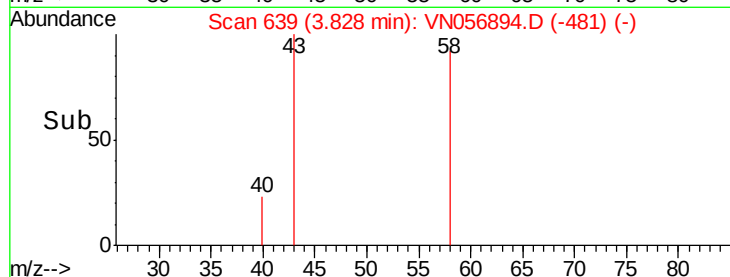
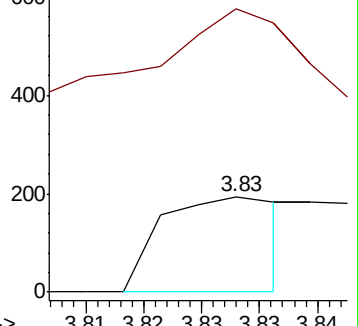
58 100

43 66.0 242.4 363.6#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#23

tert-Butyl Alcohol

Concen: 0.610 ug/l

RT: 4.80 min Scan# 942

Delta R.T. -0.00 min

Lab File: VN056894.D

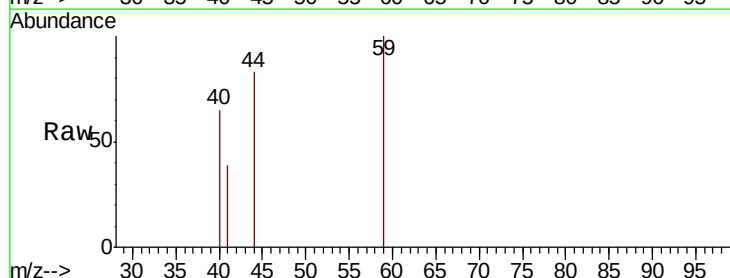
Acq: 23 Jul 2019 23:30

Tgt Ion: 59 Resp: 292

Ion Ratio Lower Upper

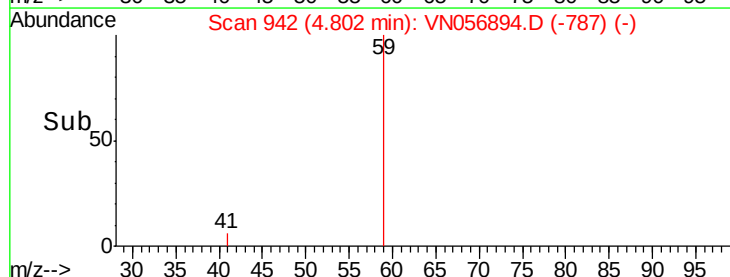
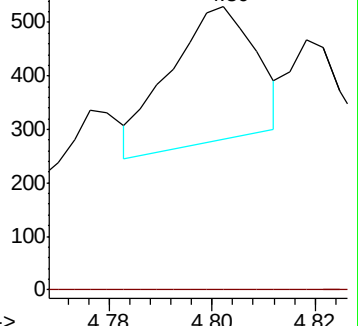
59 100

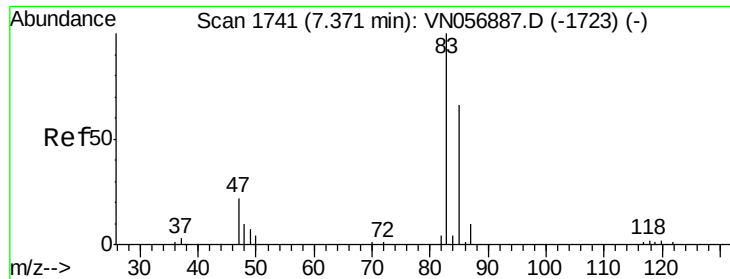
52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

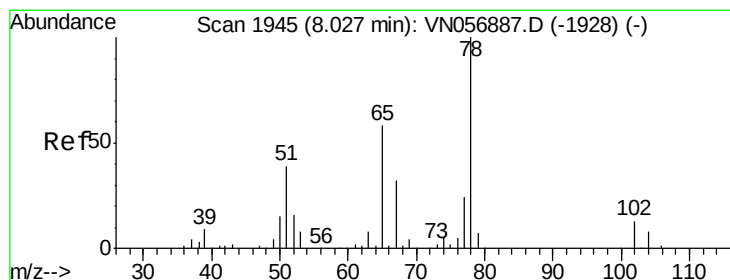
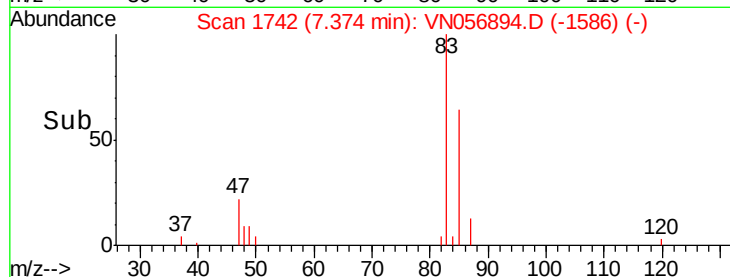
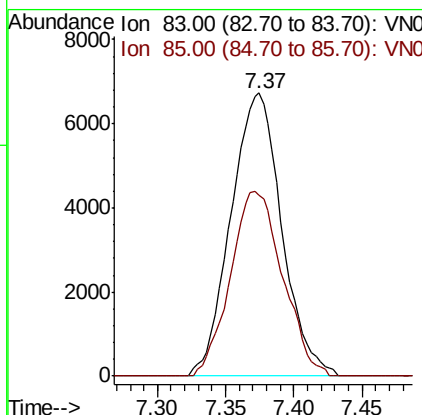
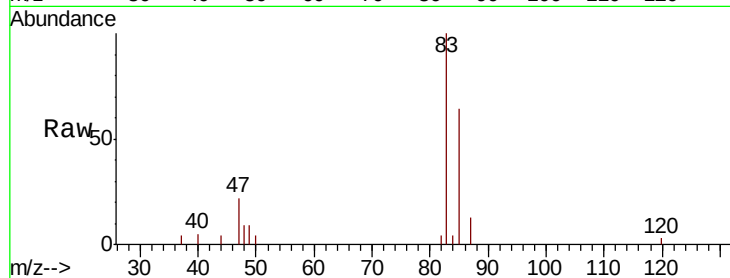




#25
Chloroform
Concen: 2.976 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN056894.D
Acq: 23 Jul 2019 23:30

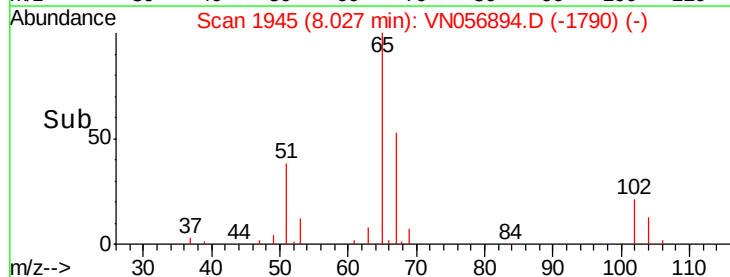
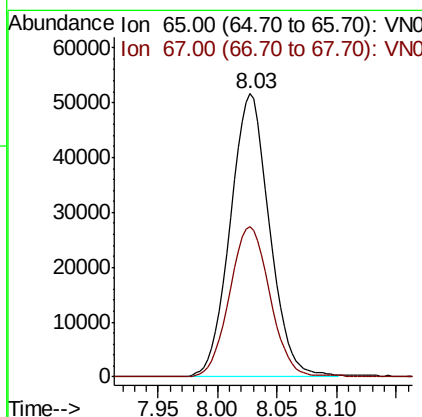
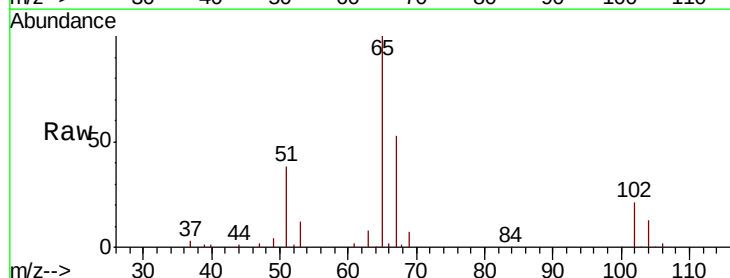
Instrument :
MSVOA_N
ClientSampleId :
TRIP-BLANK

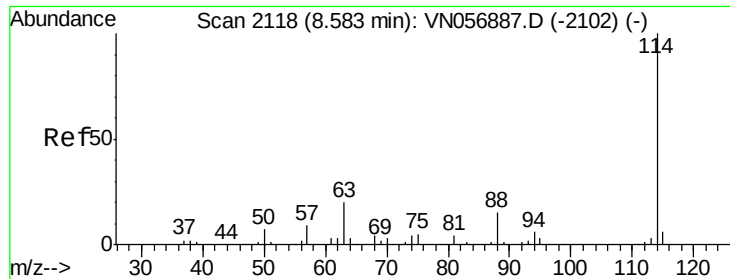
Tot Ion: 83 Resp: 17417
Ion Ratio Lower Upper
83 100
85 64.1 53.1 79.7



#27
1,2-Dichloroethane-d4
Concen: 31.650 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN056894.D
Acq: 23 Jul 2019 23:30

Tgt Ion: 65 Resp: 117881
Ion Ratio Lower Upper
65 100
67 54.4 44.6 66.8

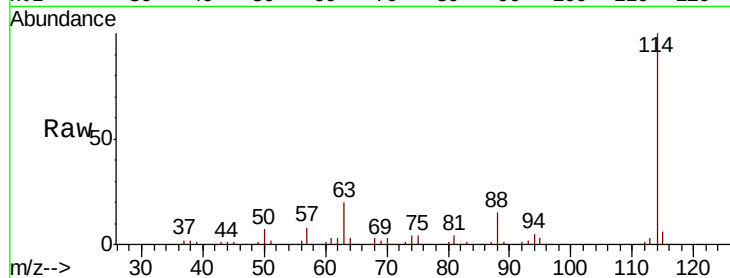




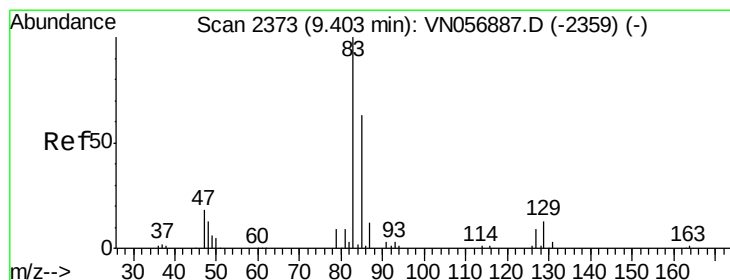
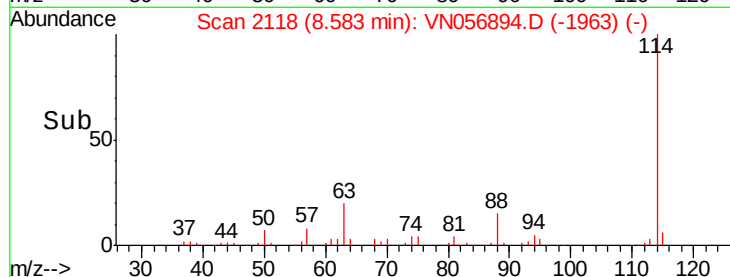
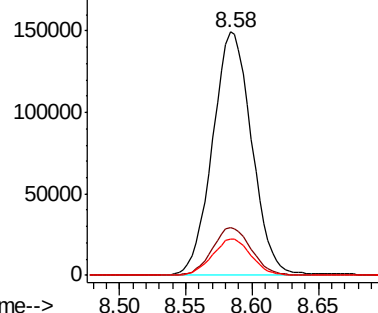
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056894.D
 Acq: 23 Jul 2019 23:30

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIP-BLANK

Tot Ion:114 Resp: 307555
 Ion Ratio Lower Upper
 114 100
 63 19.6 15.8 23.6
 88 15.0 12.5 18.7

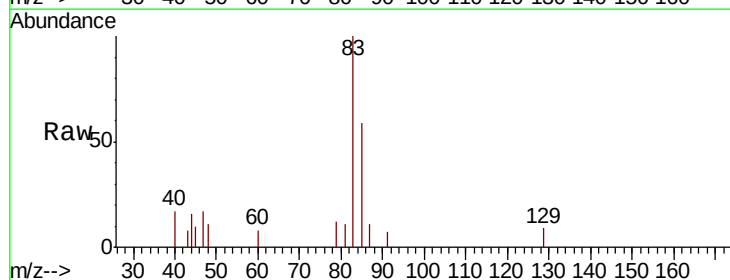


Abundance Ion 114.00 (113.70 to 114.70): V
 200000 Ion 63.00 (62.70 to 63.70): VN
 150000 Ion 88.00 (87.70 to 88.70): VN

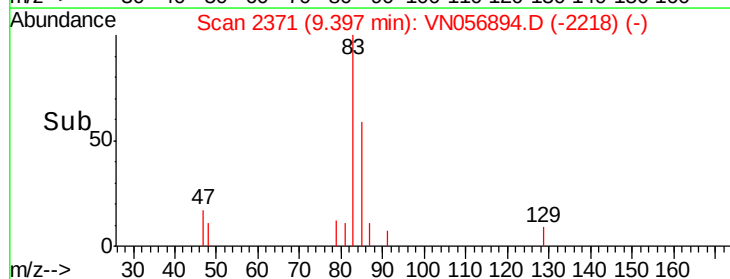
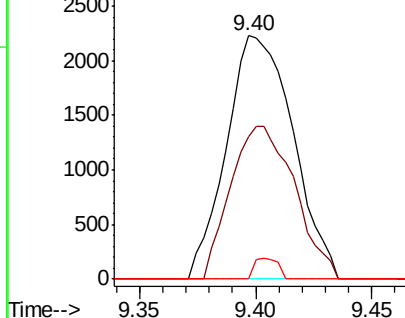


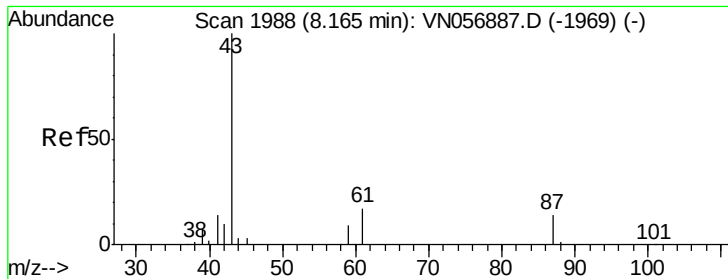
#41
 Bromodichloromethane
 Concen: 1.027 ug/l
 RT: 9.40 min Scan# 2371
 Delta R.T. -0.01 min
 Lab File: VN056894.D
 Acq: 23 Jul 2019 23:30

Tgt Ion: 83 Resp: 4446
 Ion Ratio Lower Upper
 83 100
 85 58.7 50.6 75.8
 127 0.0 7.2 10.8#



Abundance Ion 83.00 (82.70 to 83.70): VN
 3000 Ion 85.00 (84.70 to 85.70): VN
 2500 Ion 127.00 (126.70 to 127.70): V





#44

Isopropyl Acetate

Concen: 1.603 ug/l

RT: 8.32 min Scan# 2035

Delta R.T. 0.15 min

Lab File: VN056894.D

Acq: 23 Jul 2019 23:30

Instrument :

MSVOA_N

ClientSampleId :

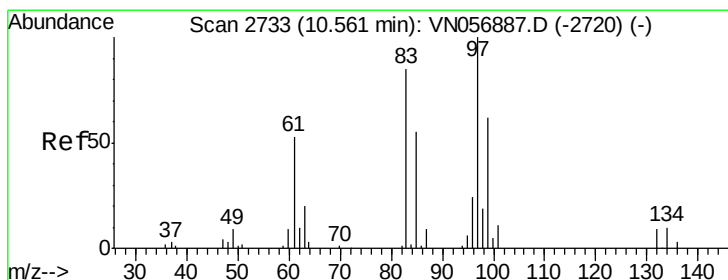
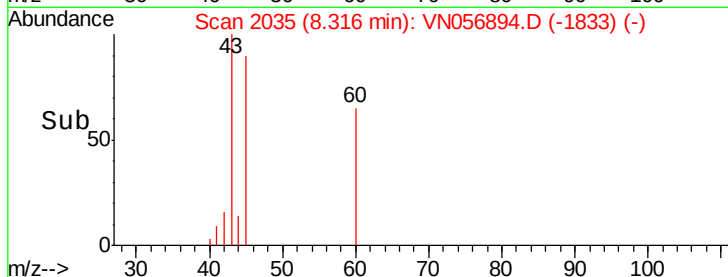
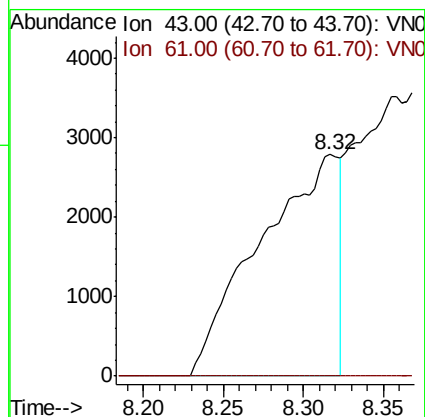
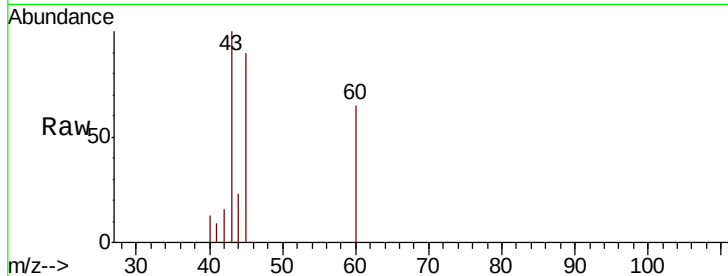
TRIP-BLANK

Tot Ion: 43 Resp: 9604

Ion Ratio Lower Upper

43 100

61 0.0 23.0 34.4#



#50

1,1,2-Trichloroethane

Concen: 3.561 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.47 min

Lab File: VN056894.D

Acq: 23 Jul 2019 23:30

Tgt Ion: 97 Resp: 11512

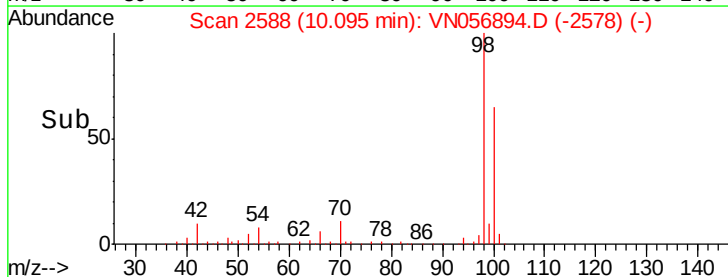
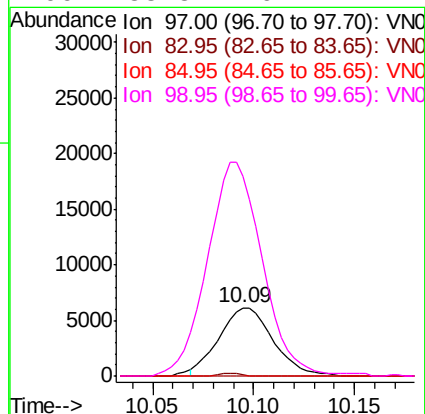
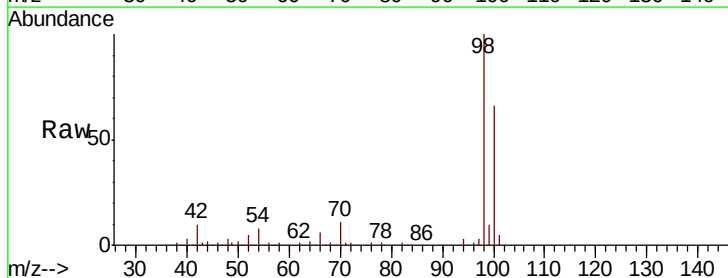
Ion Ratio Lower Upper

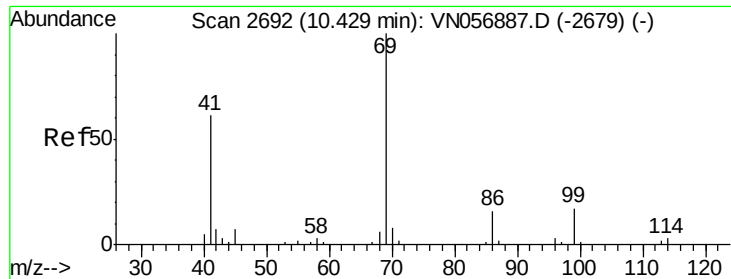
97 100

83 2.7 68.4 102.6#

85 0.0 44.3 66.5#

99 288.8 49.4 74.2#





#51

Ethyl methacrylate

Concen: 0.226 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.34 min

Lab File: VN056894.D

Acq: 23 Jul 2019 23:30

Instrument :

MSVOA_N

ClientSampled :

TRIP-BLANK

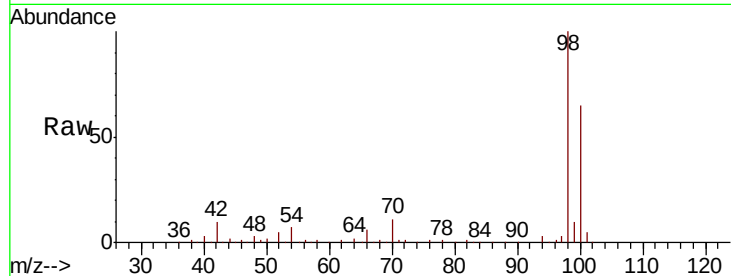
Tot Ion: 69 Resp: 1058

Ion Ratio Lower Upper

69 100

41 64.0 30.4 91.3

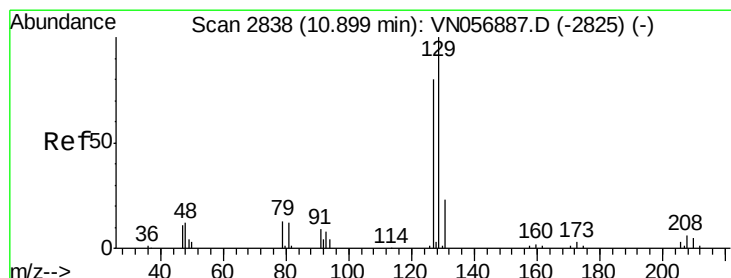
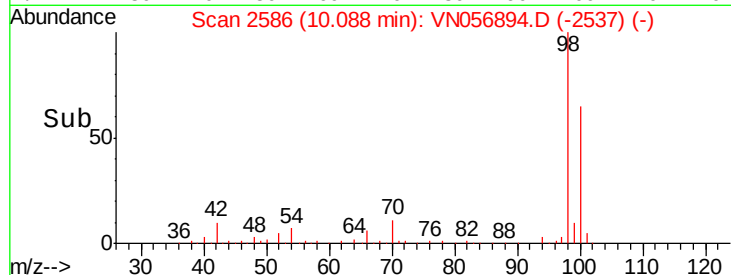
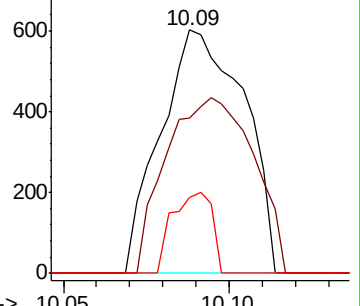
39 31.2 14.2 42.6



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) (-)



#53

Dibromochloromethane

Concen: 0.353 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN056894.D

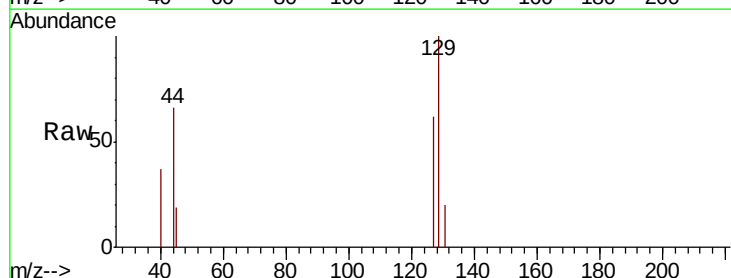
Acq: 23 Jul 2019 23:30

Tgt Ion: 129 Resp: 1185

Ion Ratio Lower Upper

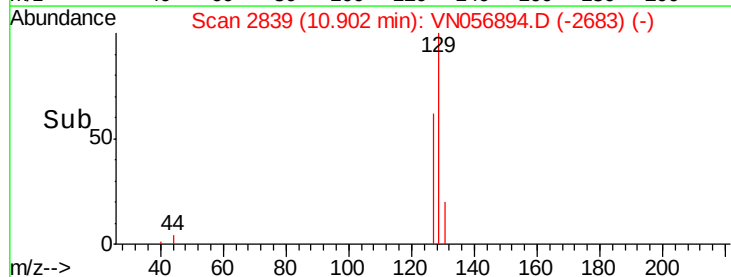
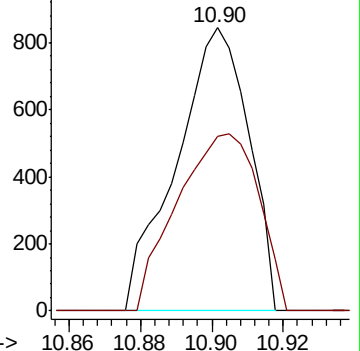
129 100

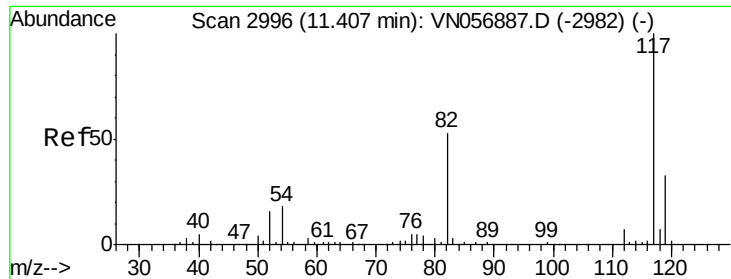
127 70.6 38.8 116.4



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

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

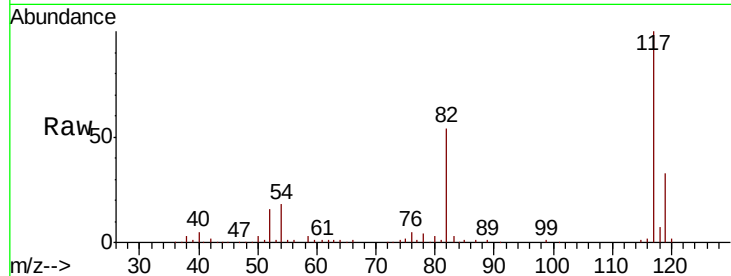




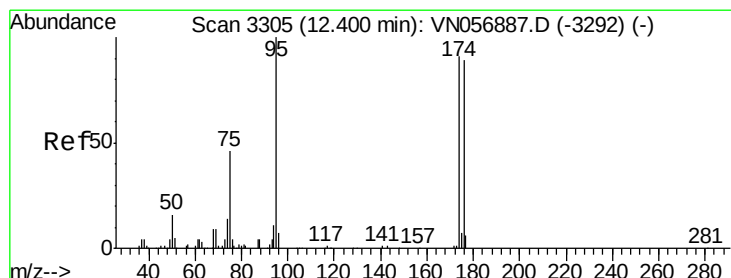
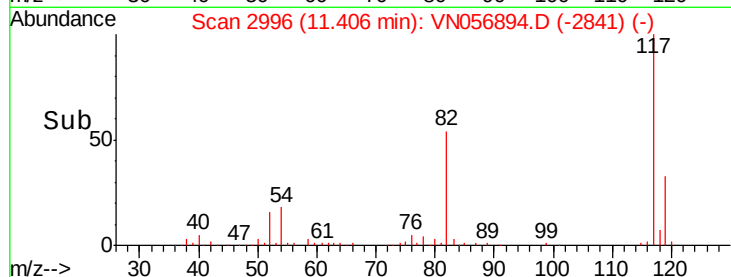
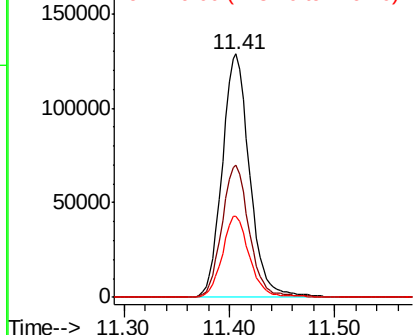
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056894.D
Acq: 23 Jul 2019 23:30

Instrument :
MSVOA_N
ClientSampleId :
TRIP-BLANK

Tot Ion:117 Resp: 231877
Ion Ratio Lower Upper
117 100
82 53.8 43.0 64.4
119 32.9 26.2 39.2

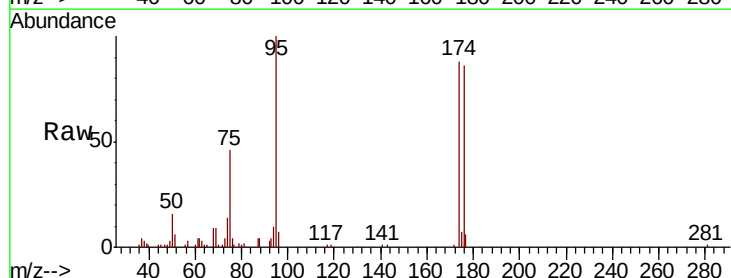


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

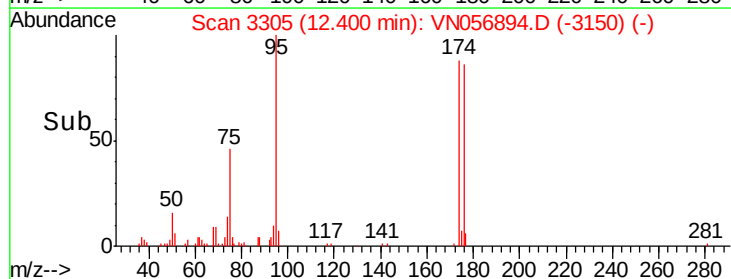
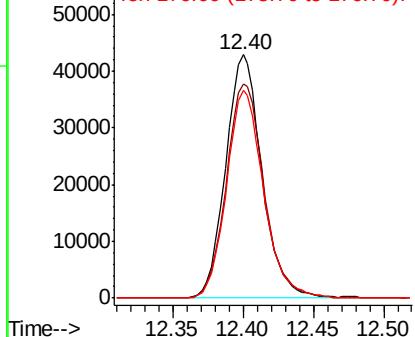


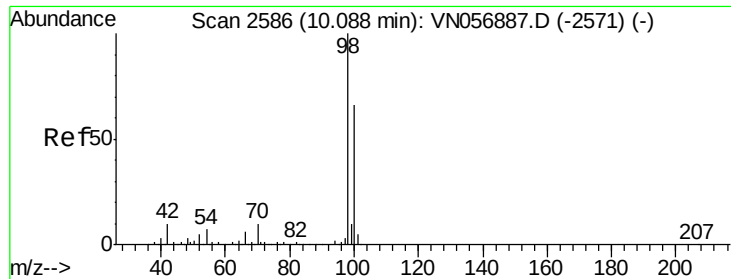
#60
4-Bromofluorobenzene
Concen: 22.150 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056894.D
Acq: 23 Jul 2019 23:30

Tgt Ion: 95 Resp: 76980
Ion Ratio Lower Upper
95 100
174 91.7 71.9 107.9
176 87.4 69.8 104.8



Abundance Ion 95.00 (94.70 to 95.70): VN
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: 32.616 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056894.D

Acq: 23 Jul 2019 23:30

Instrument :

MSVOA_N

ClientSampleId :

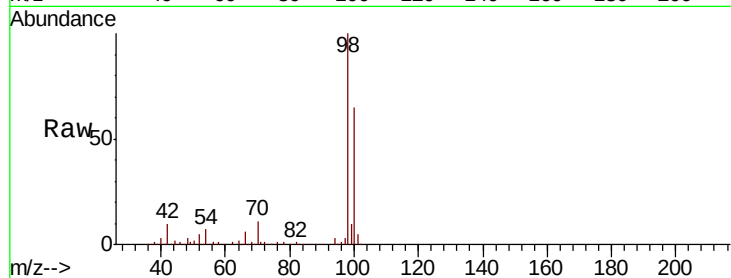
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Tot Ion: 98 Resp: 357257

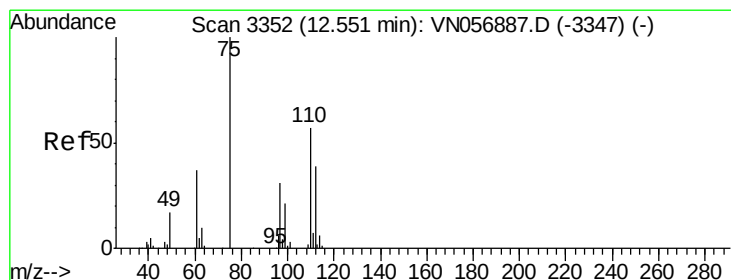
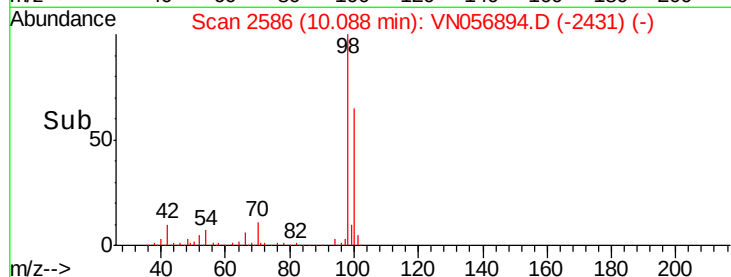
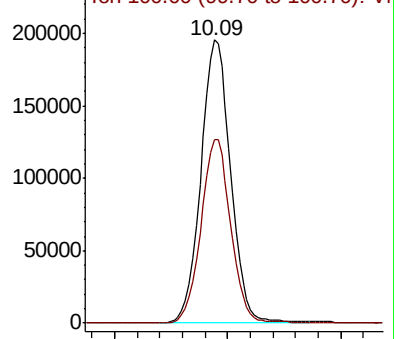
Ion Ratio Lower Upper

98 100

100 64.9 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN056887.D (-2571) (-)



#72

1,2,3-Trichloropropane

Concen: 11.163 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056894.D

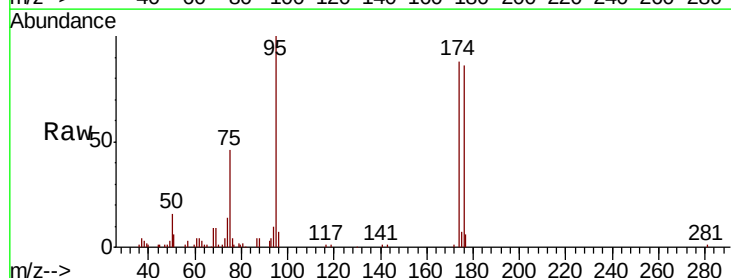
Acq: 23 Jul 2019 23:30

Tgt Ion: 75 Resp: 35292

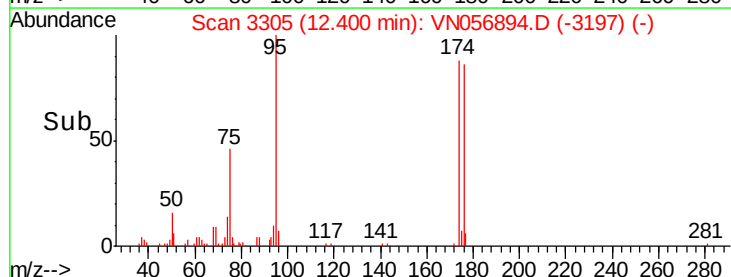
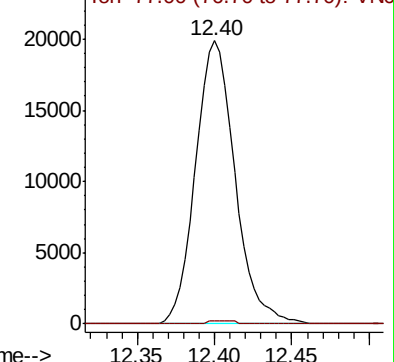
Ion Ratio Lower Upper

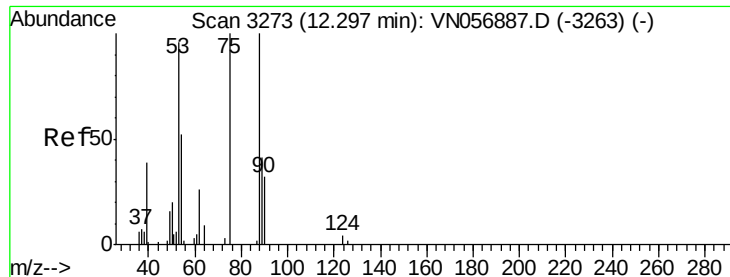
75 100

77 0.5 0.0 378.6



Abundance Ion 75.00 (74.70 to 75.70): VN056887.D (-3347) (-)

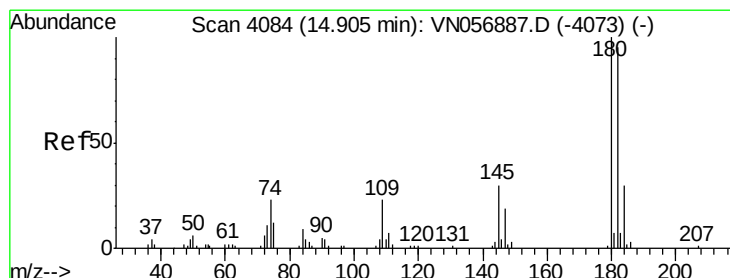
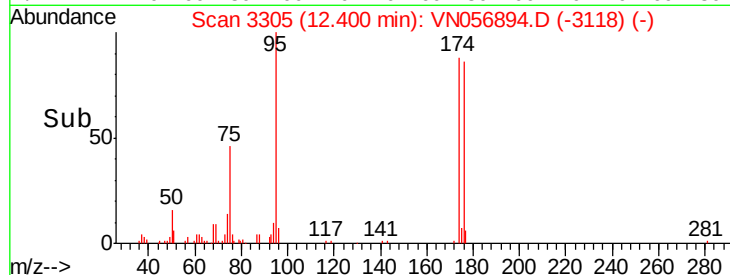
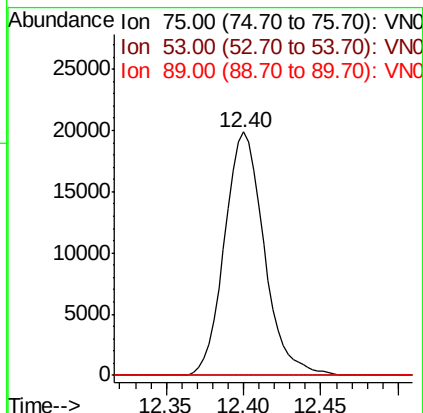
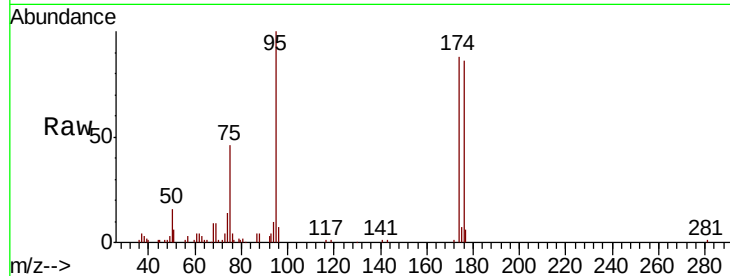




#77
 t-1,4-Dichloro-2-butene
 Concen: 35.554 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN056894.D
 Acq: 23 Jul 2019 23:30

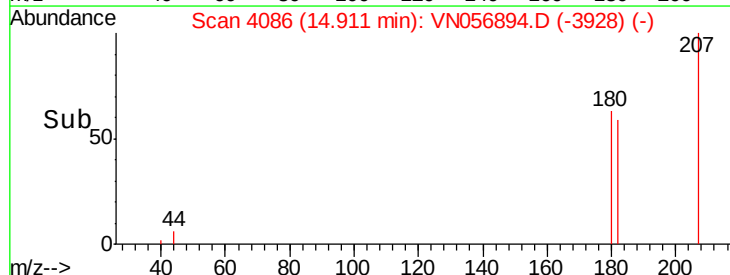
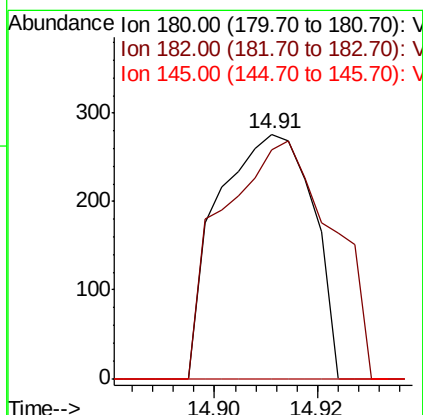
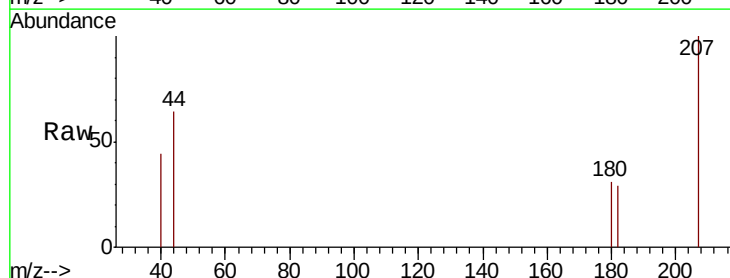
Instrument :
 MSVOA_N
 ClientSampled :
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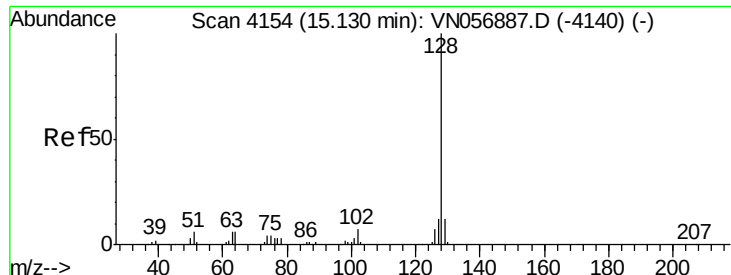
Tot Ion: 75 Resp: 35292
 Ion Ratio Lower Upper
 75 100
 53 0.0 48.0 144.0#
 89 0.0 21.4 64.3#



#89
 1,2,4-Trichlorobenzene
 Concen: 8.105 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056894.D
 Acq: 23 Jul 2019 23:30

Tgt Ion: 180 Resp: 352
 Ion Ratio Lower Upper
 180 100
 182 18.5 77.0 115.4#
 145 0.0 23.5 35.3#





#91

Naphthalene

Concen: 7.800 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056894.D

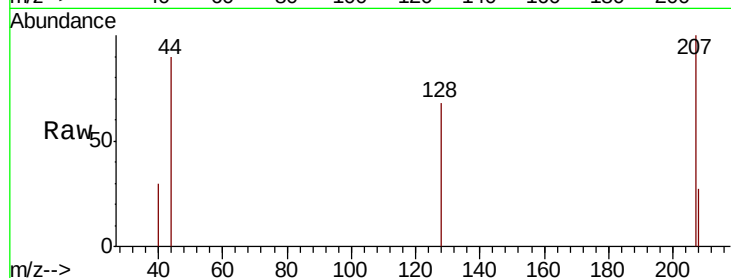
Acq: 23 Jul 2019 23:30

Instrument :

MSVOA_N

ClientSampleId :

TRIP-BLANK



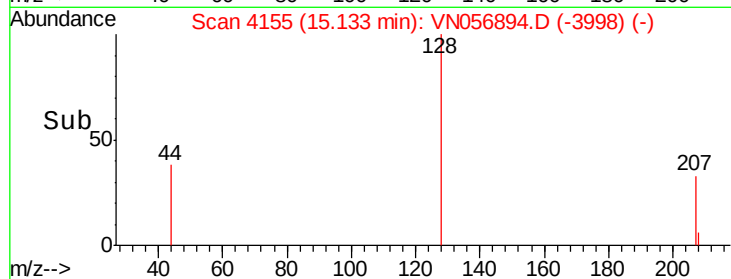
Tot Ion:128 Resp: 996

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

