

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN082319\
 Data File : VN057469.D
 Acq On : 23 Aug 2019 12:59
 Operator : JC/SP
 Sample : K4488-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 390821768-TRIP-BLANK

Quant Time: Aug 23 23:19:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 23:15:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	66661	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	371411	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	270910	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	190248	29.60	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.67%
60) 4-Bromofluorobenzene	12.40	95	104307	23.35	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	77.83%
63) Toluene-d8	10.09	98	451108	32.97	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	109.90%

Target Compounds

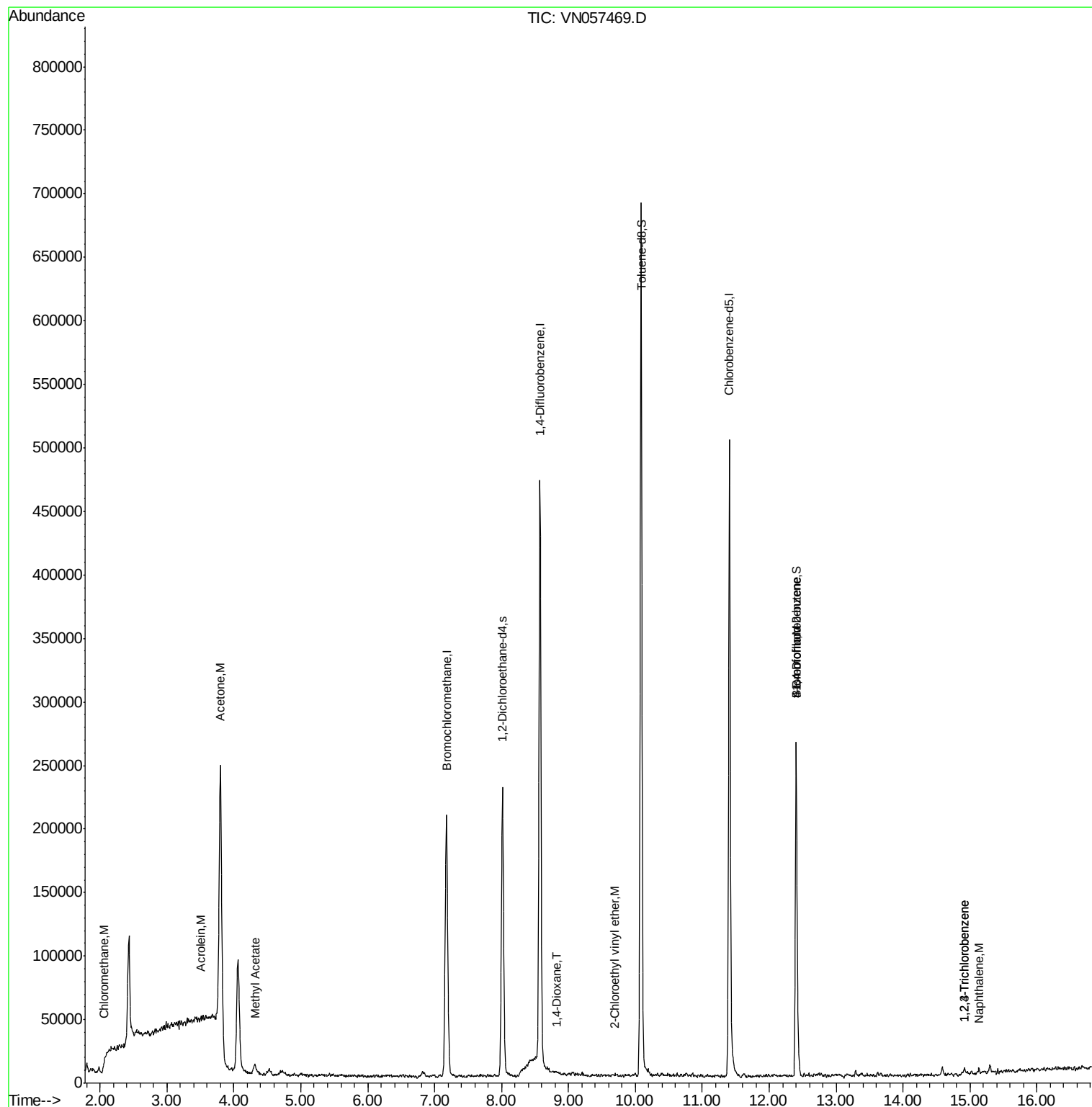
					Qvalue	
3) Chloromethane	2.05	50	1446	0.276	ug/l #	74
12) Methyl Acetate	4.31	43	11066	1.909	ug/l	99
13) Acrolein	3.52	56	377	0.511	ug/l	85
15) Acetone	3.80	58	81961	87.010	ug/l	98
45) 1,4-Dioxane	8.83	88	62	0.915	ug/l #	1
55) 2-Chloroethyl vinyl ether	9.70	63	370	0.213	ug/l #	47
56) Bromoform	12.40	173	706	0.262	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.40	75	57367	37.504	ug/l #	5
89) 1,2,4-Trichlorobenzene	14.91	180	964	0.512	ug/l #	77
91) Naphthalene	15.13	128	2152	9.964	ug/l #	82
92) 1,2,3-Trichlorobenzene	14.91	180	964	0.512	ug/l	77

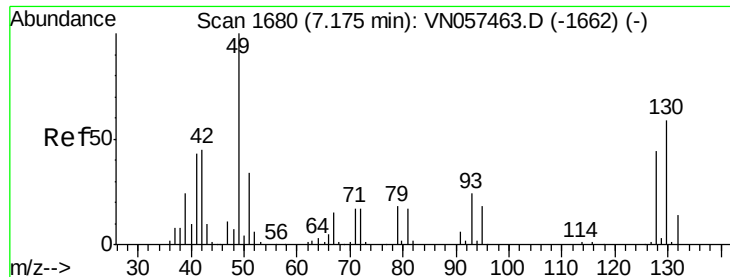
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN082319\
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390821768-TRIP-BLANK

Quant Time: Aug 23 23:19:24 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\624N082319W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 23 23:15:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VN057469.D

Acq: 23 Aug 2019 12:59

Instrument :

MSVOA_N

ClientSampleId :

390821768-TRIP-BLANK

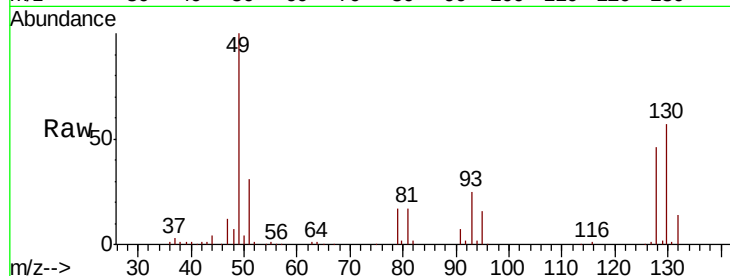
Tgt Ion:128 Resp: 66661

Ion Ratio Lower Upper

128 100

49 220.6 0.0 560.5

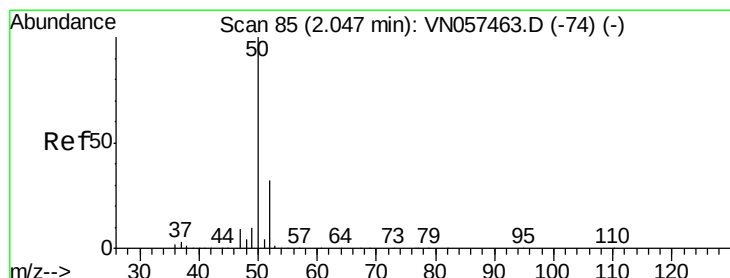
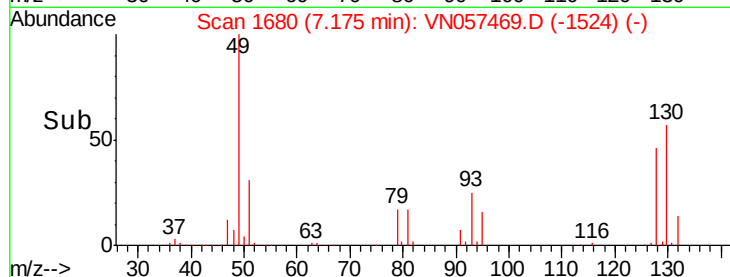
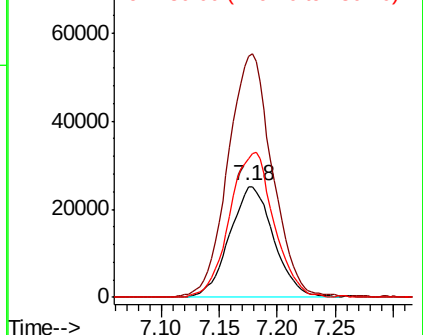
130 130.9 0.0 317.3



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



#3

Chloromethane

Concen: 0.276 ug/l

RT: 2.05 min Scan# 86

Delta R.T. 0.00 min

Lab File: VN057469.D

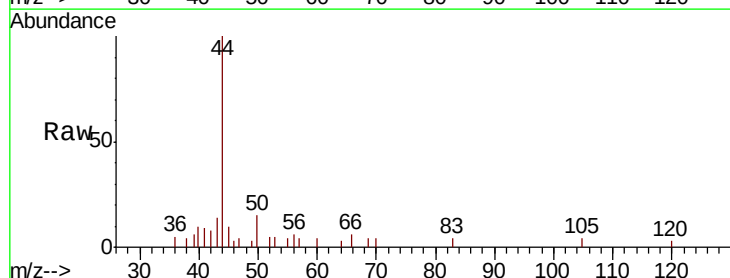
Acq: 23 Aug 2019 12:59

Tgt Ion: 50 Resp: 1446

Ion Ratio Lower Upper

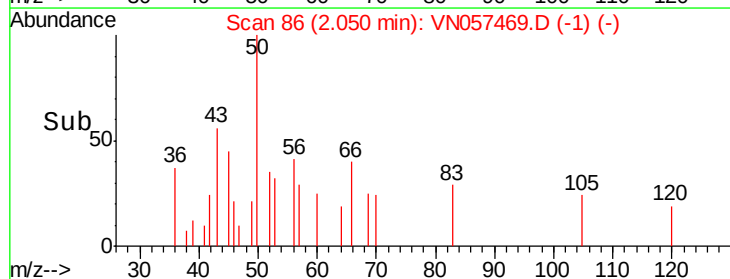
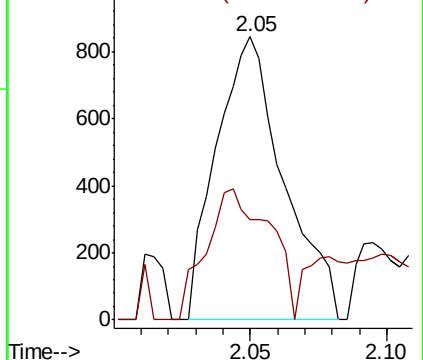
50 100

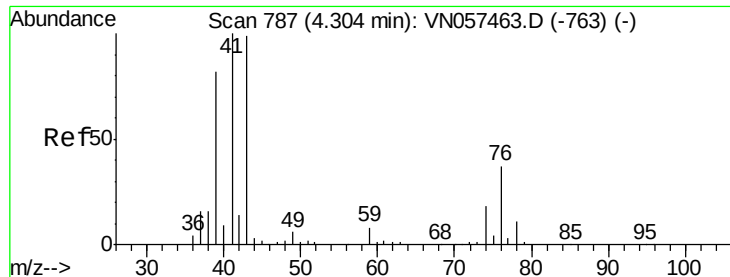
52 17.6 25.8 38.6#



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#12

Methyl Acetate

Concen: 1.909 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN057469.D

Acq: 23 Aug 2019 12:59

Instrument :

MSVOA_N

ClientSampleId :

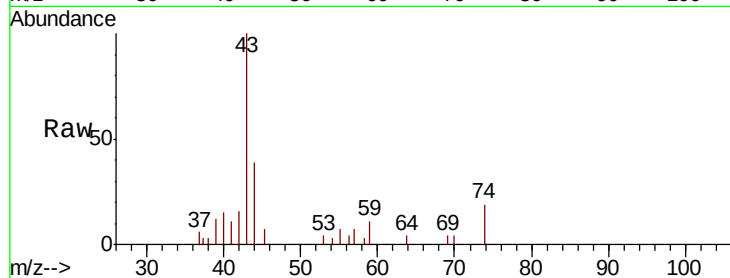
390821768-TRIP-BLANK

Tgt Ion: 43 Resp: 11066

Ion Ratio Lower Upper

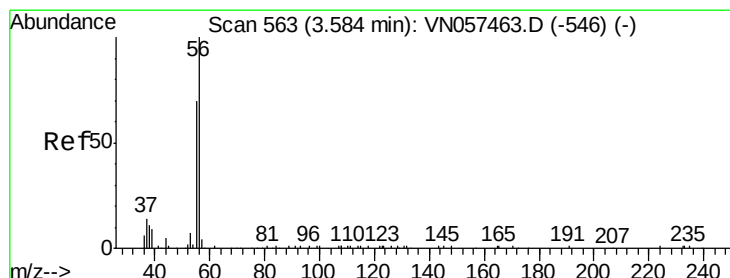
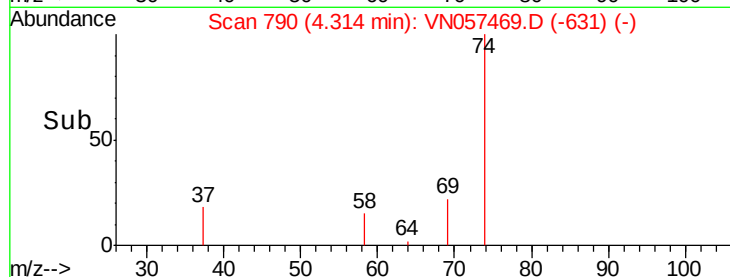
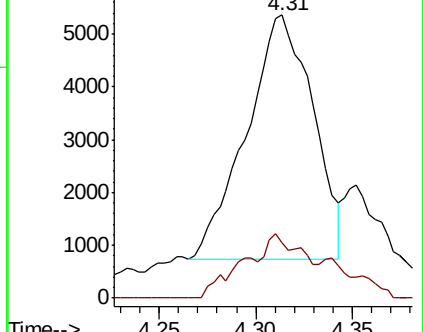
43 100

74 17.9 14.6 22.0



Abundance Ion 43.00 (42.70 to 43.70): VN057463.D (-763) (-)

Ion 74.00 (73.70 to 74.70): VN057463.D (-763) (-)



#13

Acrolein

Concen: 0.511 ug/l

RT: 3.52 min Scan# 542

Delta R.T. -0.07 min

Lab File: VN057469.D

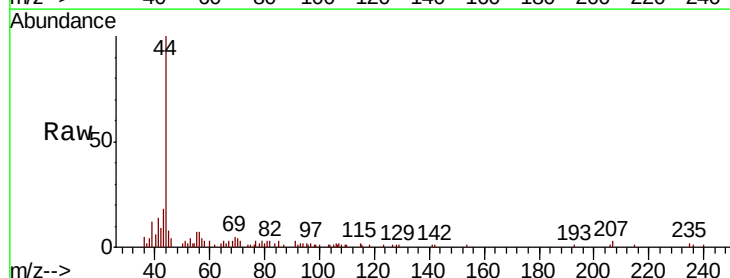
Acq: 23 Aug 2019 12:59

Tgt Ion: 56 Resp: 377

Ion Ratio Lower Upper

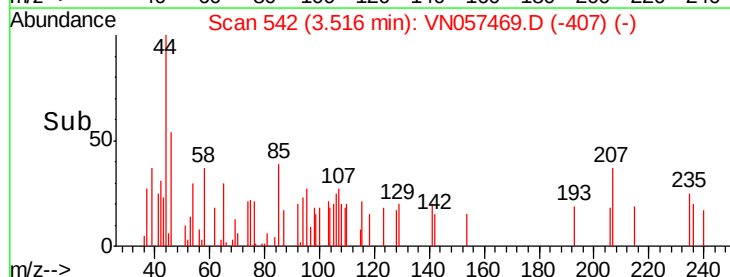
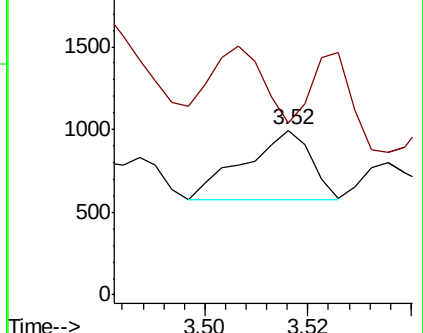
56 100

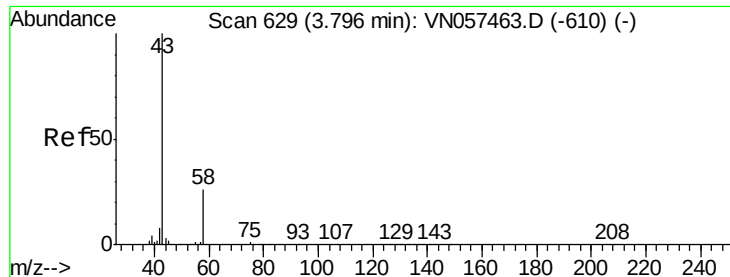
55 83.0 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN057463.D (-546) (-)

Ion 55.00 (54.70 to 55.70): VN057463.D (-546) (-)





#15

Acetone

Concen: 87.010 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN057469.D

Acq: 23 Aug 2019 12:59

Instrument :

MSVOA_N

ClientSampleId :

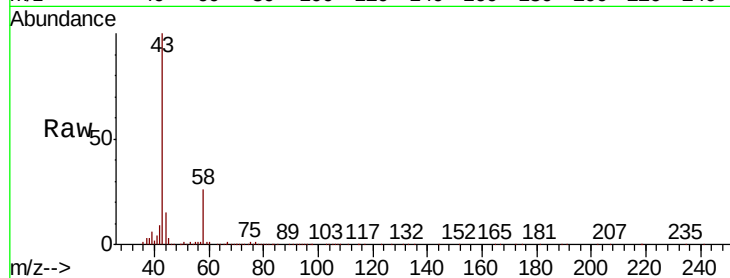
390821768-TRIP-BLANK

Tgt Ion: 58 Resp: 81961

Ion Ratio Lower Upper

58 100

43 376.8 304.4 456.6



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

150000

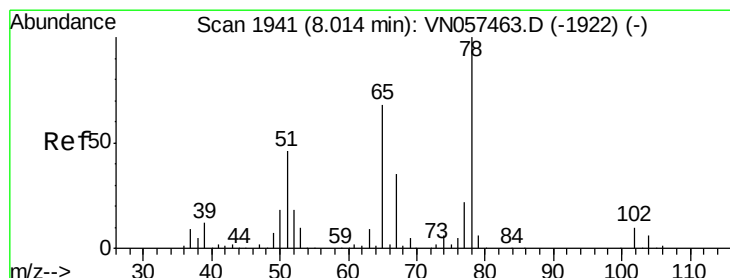
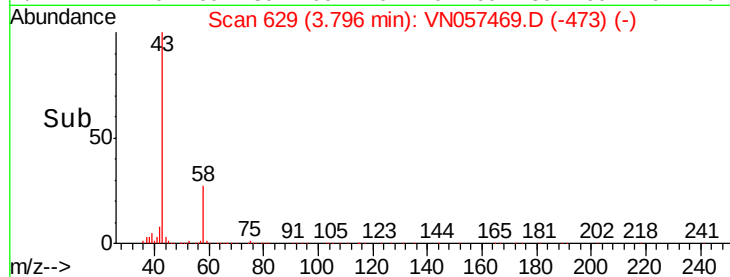
100000

50000

0

3.70 3.75 3.80 3.85 3.90

Time-->



#27

1,2-Dichloroethane-d4

Concen: 29.604 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN057469.D

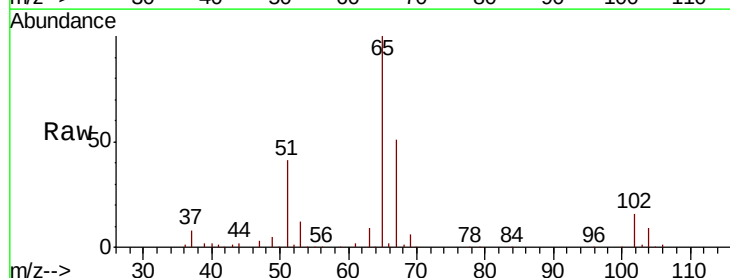
Acq: 23 Aug 2019 12:59

Tgt Ion: 65 Resp: 190248

Ion Ratio Lower Upper

65 100

67 51.9 40.2 60.4



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

80000

60000

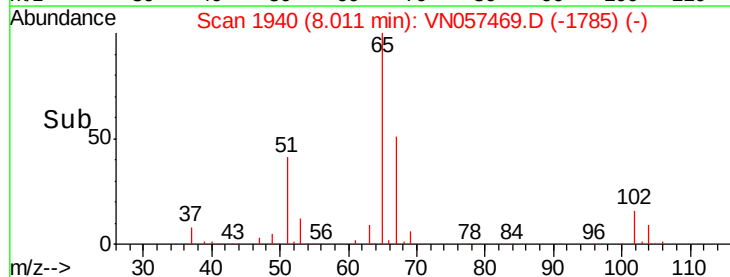
40000

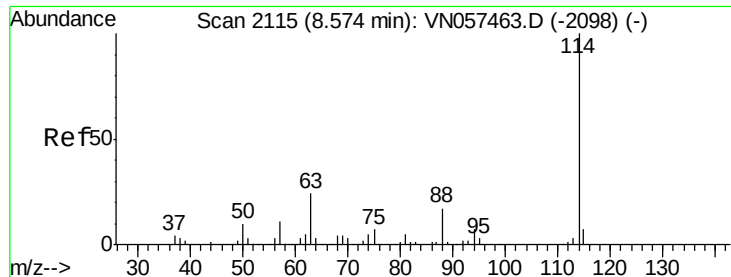
20000

0

7.90 7.95 8.00 8.05 8.10

Time-->

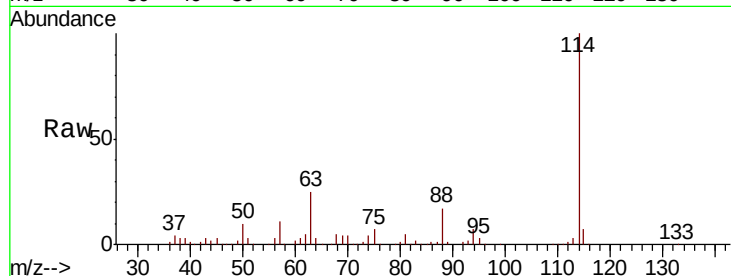




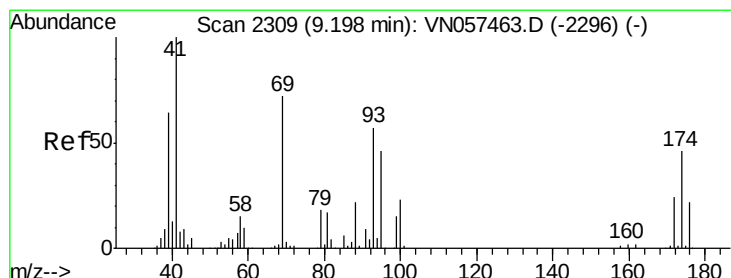
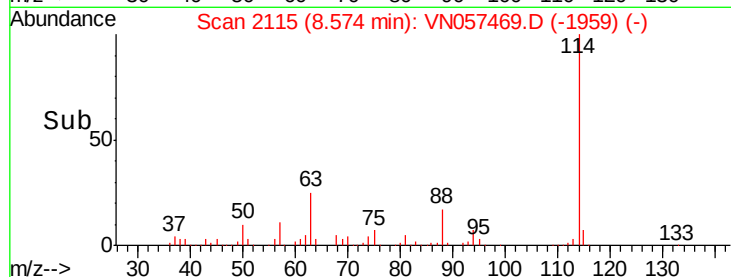
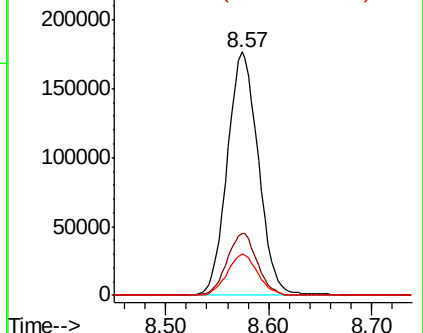
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057469.D
 Acq: 23 Aug 2019 12:59

Instrument :
 MSVOA_N
 ClientSampleId :
 390821768-TRIP-BLANK

Tgt Ion: 114 Resp: 371411
 Ion Ratio Lower Upper
 114 100
 63 24.7 19.6 29.4
 88 16.5 13.1 19.7

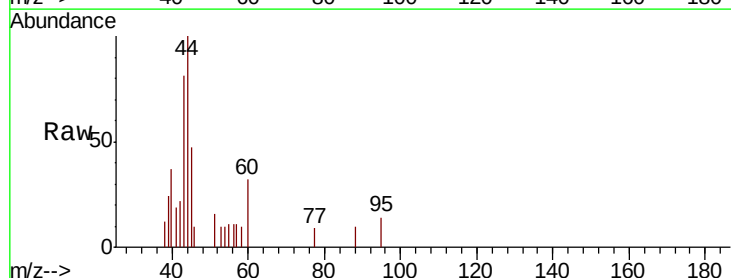


Abundance Ion 114.00 (113.70 to 114.70): VN057469.D (-2153) (-)
 Ion 63.00 (62.70 to 63.70): VN057469.D (-2153) (-)
 Ion 88.00 (87.70 to 88.70): VN057469.D (-2153) (-)

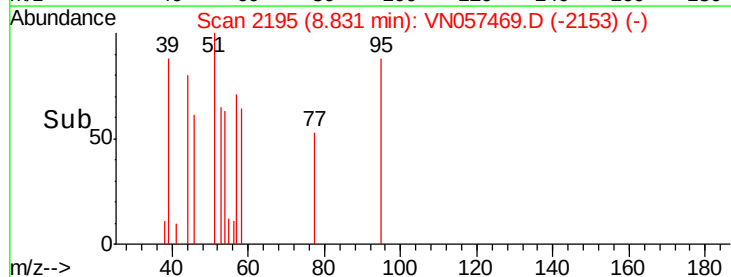
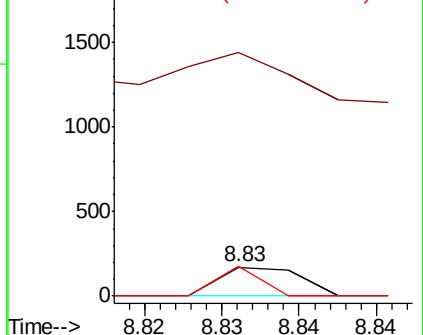


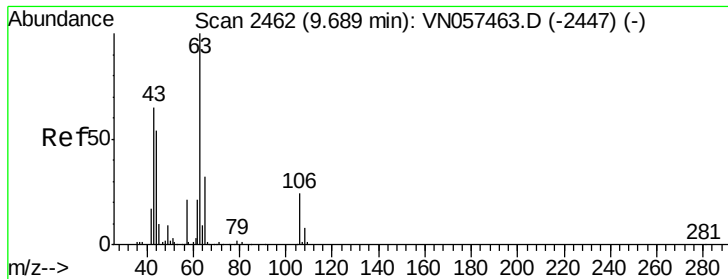
#45
 1,4-Dioxane
 Concen: 0.915 ug/l
 RT: 8.83 min Scan# 2195
 Delta R.T. -0.37 min
 Lab File: VN057469.D
 Acq: 23 Aug 2019 12:59

Tgt Ion: 88 Resp: 62
 Ion Ratio Lower Upper
 88 100
 43 590.3 29.8 44.6#
 58 0.0 62.2 93.2#



Abundance Ion 88.00 (87.70 to 88.70): VN057469.D (-2153) (-)
 Ion 43.00 (42.70 to 43.70): VN057469.D (-2153) (-)
 Ion 58.00 (57.70 to 58.70): VN057469.D (-2153) (-)





#55

2-Chloroethyl vinyl ether

Concen: 0.213 ug/l

RT: 9.70 min Scan# 2465

Delta R.T. 0.01 min

Lab File: VN057469.D

Acq: 23 Aug 2019 12:59

Instrument :

MSVOA_N

ClientSampleId :

390821768-TRIP-BLANK

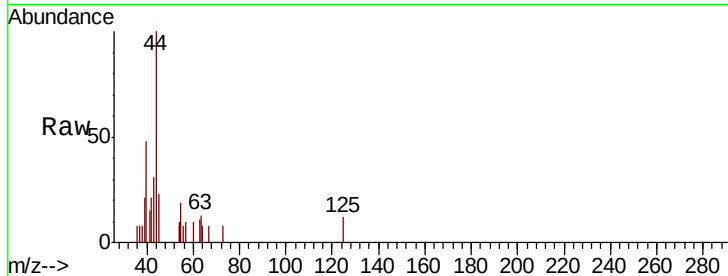
Tgt Ion: 63 Resp: 370

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#

106 0.0 18.7 28.1#

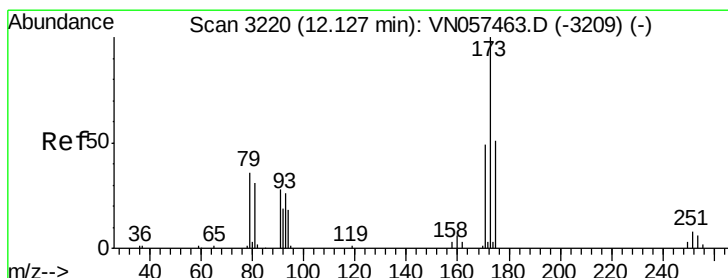
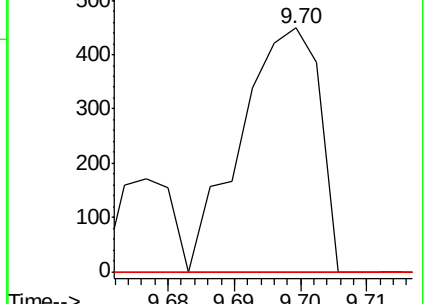
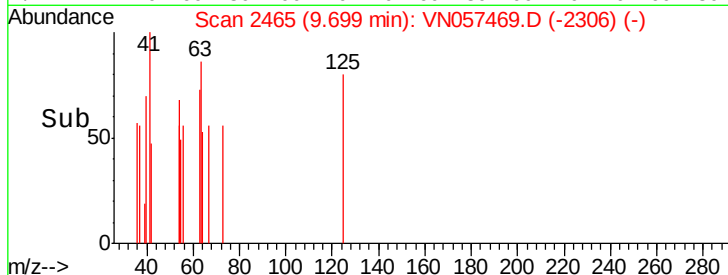


Abundance Ion 63.00 (62.70 to 63.70): VN057463.D (-2447) (-)

Ion 65.00 (64.70 to 65.70): VN057463.D (-2447) (-)

Ion 106.00 (105.70 to 106.70): VN057463.D (-2447) (-)

Time-->



#56

Bromoform

Concen: 0.262 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN057469.D

Acq: 23 Aug 2019 12:59

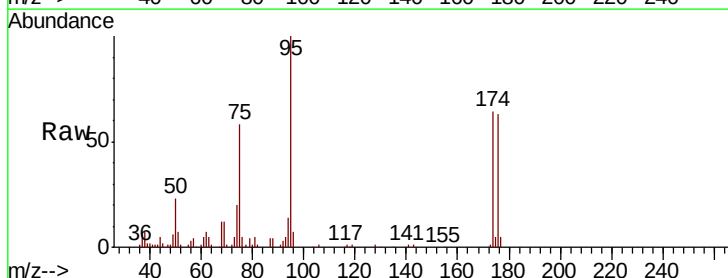
Tgt Ion: 173 Resp: 706

Ion Ratio Lower Upper

173 100

175 676.3 40.1 60.1#

254 0.0 0.0 0.0

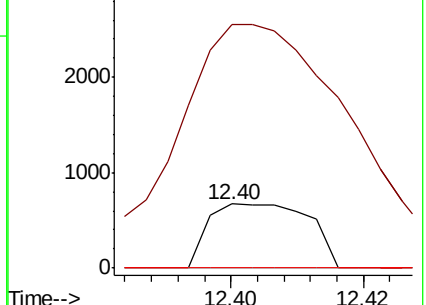
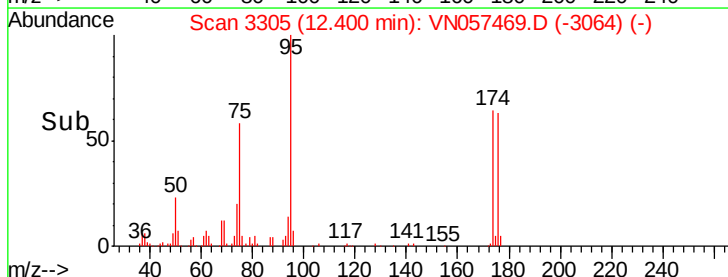


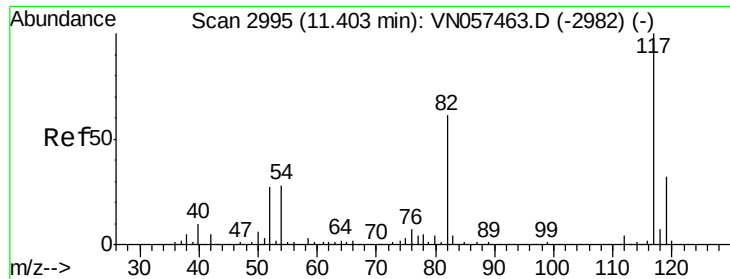
Abundance Ion 173.00 (172.70 to 173.70): VN057463.D (-3209) (-)

Ion 175.00 (174.70 to 175.70): VN057463.D (-3209) (-)

Ion 254.00 (253.70 to 254.70): VN057463.D (-3209) (-)

Time-->

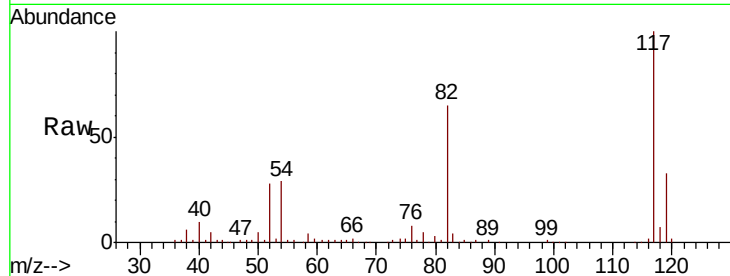




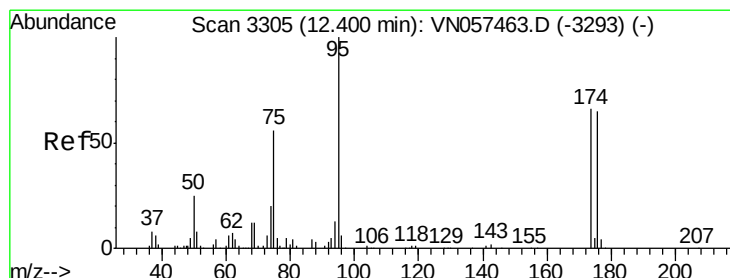
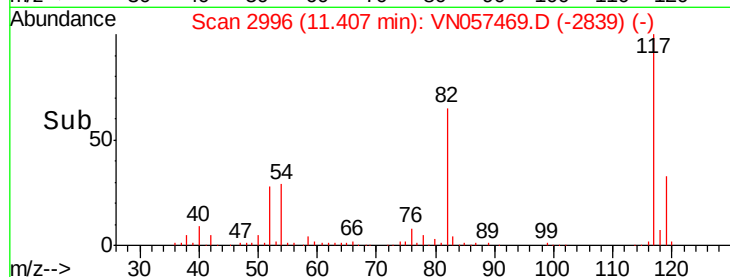
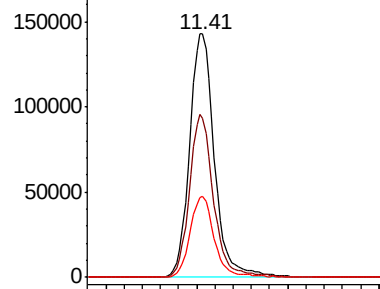
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057469.D
Acq: 23 Aug 2019 12:59

Instrument :
MSVOA_N
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390821768-TRIP-BLANK

Tgt Ion: 117 Resp: 270910
Ion Ratio Lower Upper
117 100
82 64.0 50.4 75.6
119 32.3 25.4 38.2

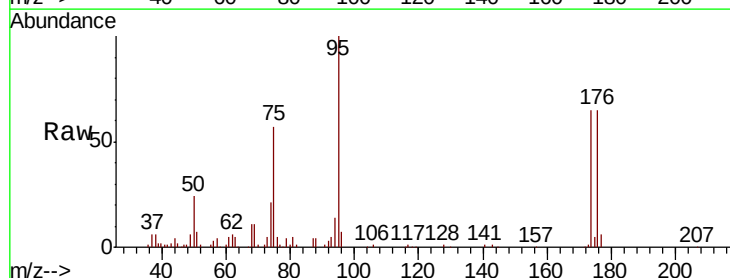


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

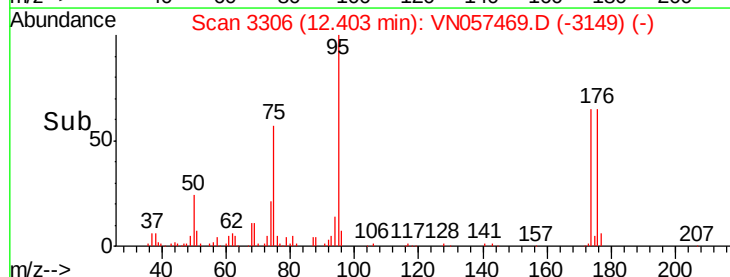
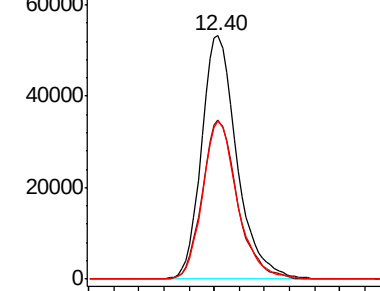


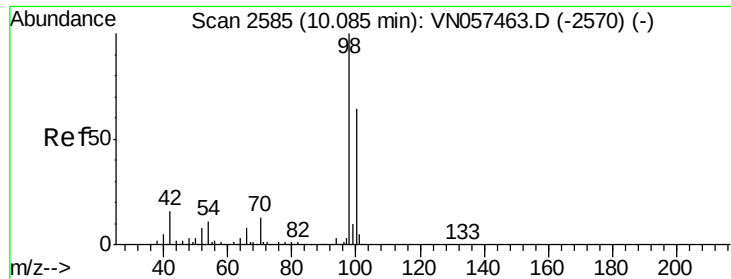
#60
4-Bromofluorobenzene
Concen: 23.349 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057469.D
Acq: 23 Aug 2019 12:59

Tgt Ion: 95 Resp: 104307
Ion Ratio Lower Upper
95 100
174 64.7 54.9 82.3
176 63.6 54.2 81.4



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





#63

Toluene-d8

Concen: 32.973 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057469.D

Acq: 23 Aug 2019 12:59

Instrument :

MSVOA_N

ClientSampleId :

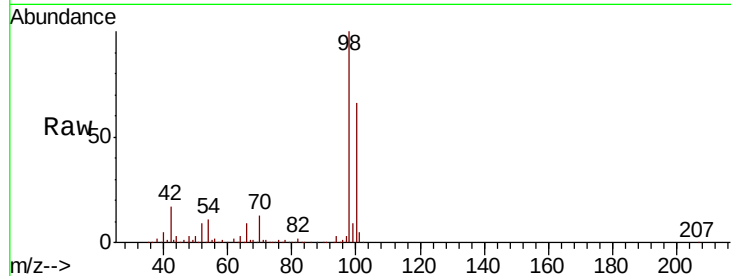
390821768-TRIP-BLANK

Tgt Ion: 98 Resp: 451108

Ion Ratio Lower Upper

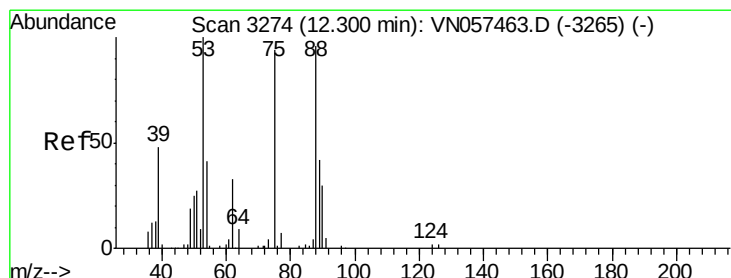
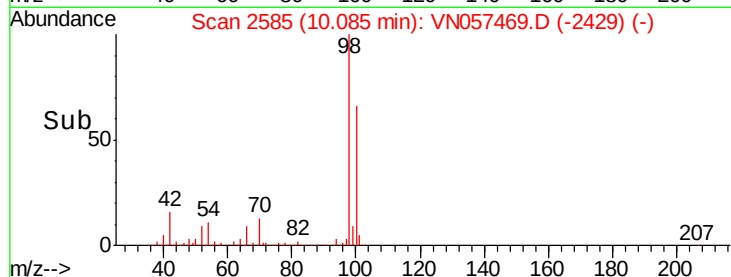
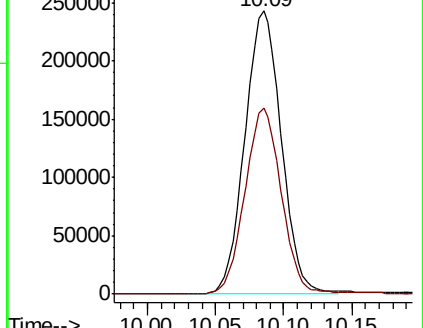
98 100

100 65.5 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#77

t-1,4-Dichloro-2-butene

Concen: 37.504 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057469.D

Acq: 23 Aug 2019 12:59

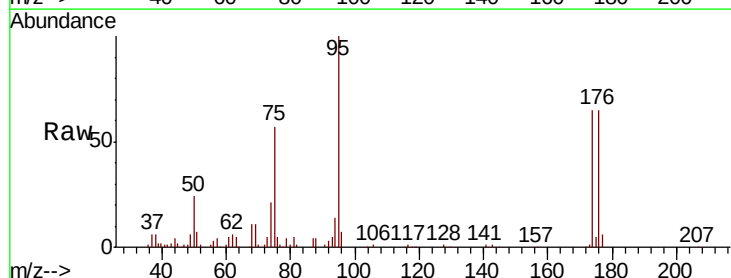
Tgt Ion: 75 Resp: 57367

Ion Ratio Lower Upper

75 100

53 0.0 55.6 166.9#

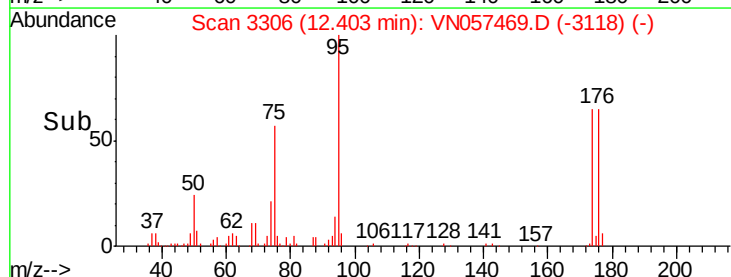
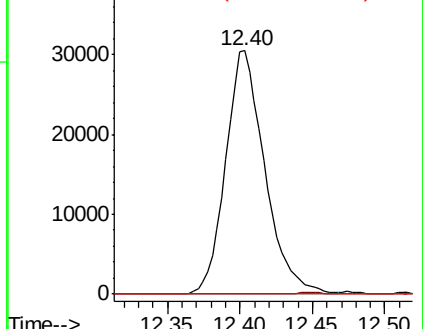
89 0.0 23.8 71.4#

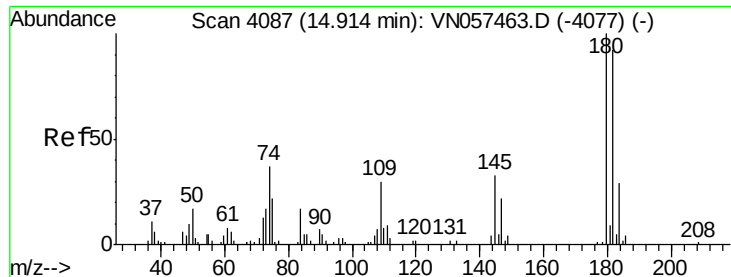


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

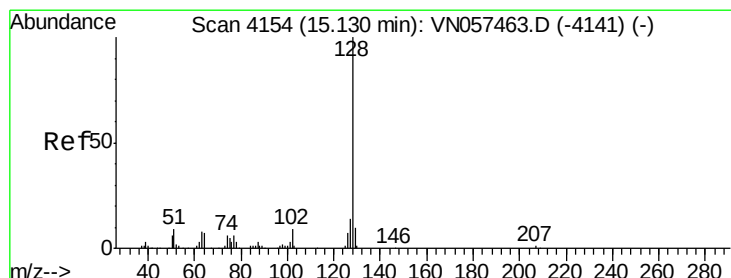
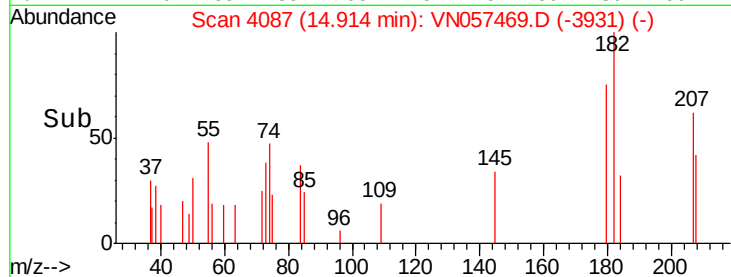
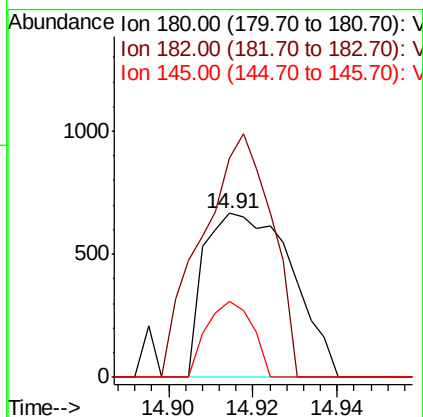
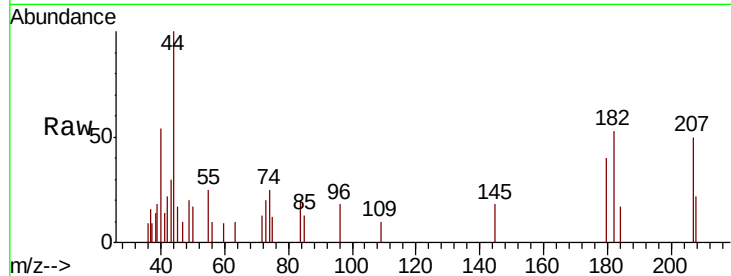




#89
 1,2,4-Trichlorobenzene
 Concen: 0.512 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057469.D
 Acq: 23 Aug 2019 12:59

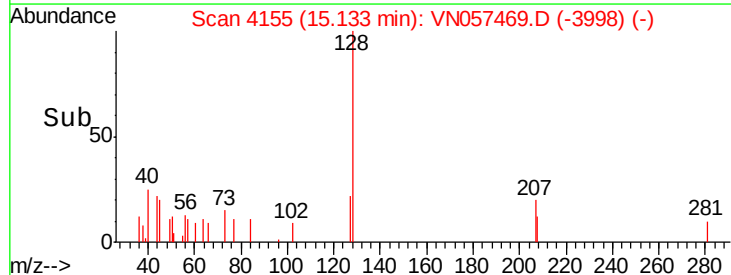
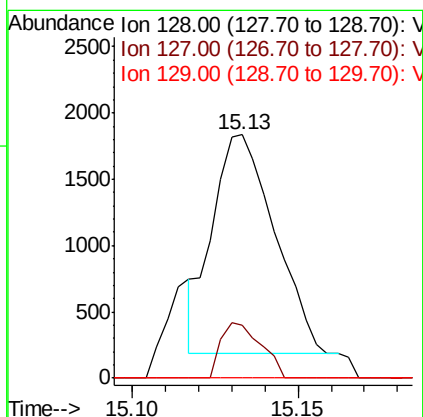
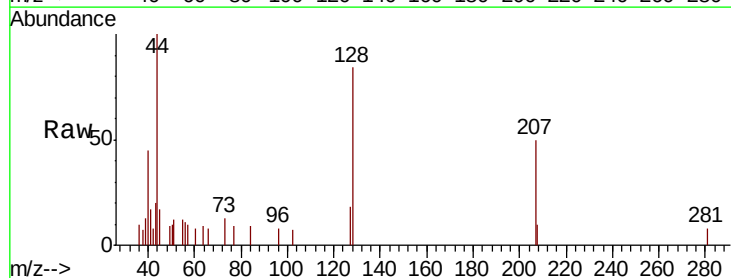
Instrument :
 MSVOA_N
 ClientSampleId :
 390821768-TRIP-BLANK

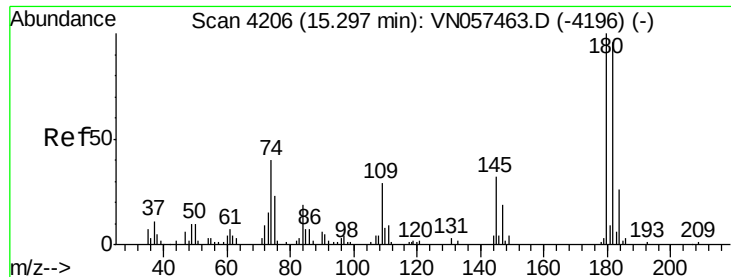
Tgt Ion:180 Resp: 964
 Ion Ratio Lower Upper
 180 100
 182 118.4 75.4 113.2#
 145 24.1 26.9 40.3#



#91
 Naphthalene
 Concen: 9.964 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN057469.D
 Acq: 23 Aug 2019 12:59

Tgt Ion:128 Resp: 2152
 Ion Ratio Lower Upper
 128 100
 127 16.3 10.1 15.1#
 129 0.0 8.6 13.0#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.512 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. -0.38 min
 Lab File: VN057469.D
 Acq: 23 Aug 2019 12:59

Instrument :
 MSVOA_N
 ClientSampleId :
 390821768-TRIP-BLANK

Tgt Ion:180 Resp: 964
 Ion Ratio Lower Upper
 180 100
 182 118.4 0.0 187.0
 145 24.1 0.0 64.4

