

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100119\
 Data File : VN058465.D
 Acq On : 1 Oct 2019 15:09
 Operator : JC/SP
 Sample : I.BLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

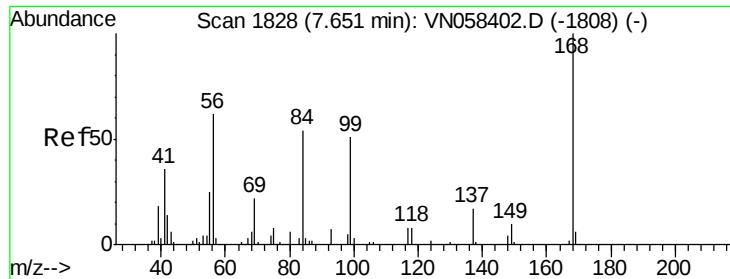
Quant Time: Oct 02 01:28:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	411689	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	675641	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	576665	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	223720	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	300763	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
35) Dibromofluoromethane	7.58	113	218277	52.71	ug/l	0.00
Spiked Amount			Recovery	=	105.42%	
50) Toluene-d8	10.09	98	844293	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	
62) 4-Bromofluorobenzene	12.41	95	270628	46.14	ug/l	0.00
Spiked Amount			Recovery	=	92.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	3846	0.775	ug/l	90
11) Tert butyl alcohol	4.72	59	2576	3.854	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	5051	1.301	ug/l	86
16) Acetone	3.81	43	622	0.303	ug/l #	47
18) Methyl Acetate	4.32	43	2065	0.400	ug/l #	60
20) Methylene Chloride	4.53	84	1460	0.308	ug/l #	83
27) cis-1,2-Dichloroethene	6.82	96	3749	0.743	ug/l	90
31) Cyclohexane	7.65	56	11152	1.339	ug/l #	27
32) 1,1,1-Trichloroethane	7.56	97	54288	7.622	ug/l	99
36) 1,1-Dichloropropene	7.65	75	36669	5.676	ug/l #	51
38) Carbon Tetrachloride	7.65	117	43403	7.443	ug/l #	16
43) Isopropyl Acetate	8.27	43	25243	2.451	ug/l #	63
44) Trichloroethene	8.82	130	10986	2.396	ug/l	92
52) Toluene	10.15	92	6439	0.551	ug/l	98
60) Dibromochloromethane	10.63	129	211402	47.943	ug/l #	11
64) Tetrachloroethene	10.63	164	217219	59.289	ug/l	95
71) Bromoform	12.41	173	1862	1.383	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	149477	36.580	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	149477	111.099	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.05	105	3234	0.233	ug/l	96
85) sec-Butylbenzene	13.05	105	3234	0.210	ug/l #	58
95) Naphthalene	15.14	128	3961	0.333	ug/l #	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

Instrument :

MSVOA_N

ClientSampleId :

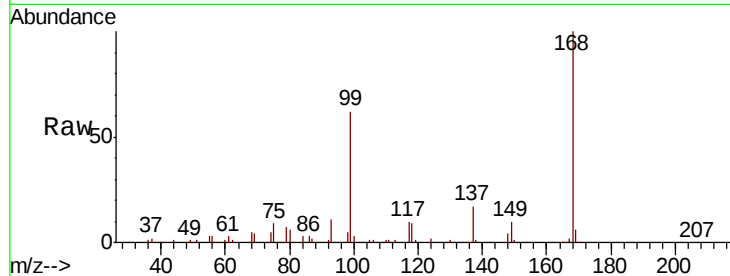
I.BLK

Tot Ion:168 Resp: 411689

Ion Ratio Lower Upper

168 100

99 62.1 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): VN058402.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN058402.D (-1808) (-)

7.65

150000

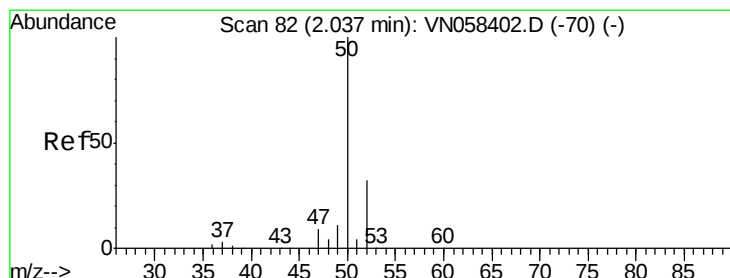
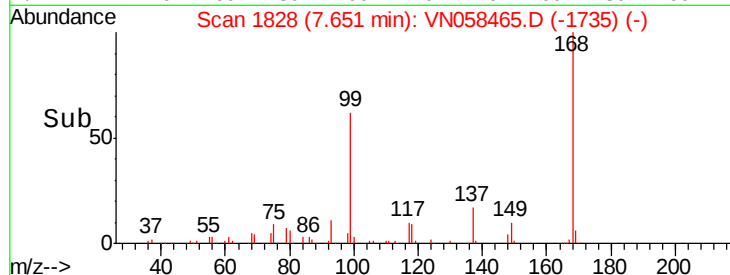
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.775 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058465.D

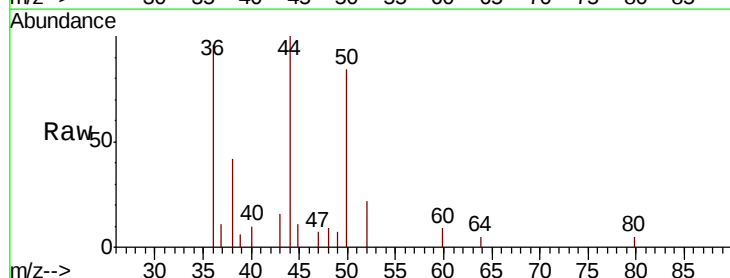
Acq: 1 Oct 2019 15:09

Tgt Ion: 50 Resp: 3846

Ion Ratio Lower Upper

50 100

52 26.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN058402.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN058402.D (-70) (-)

2.03

3000

2500

2000

1500

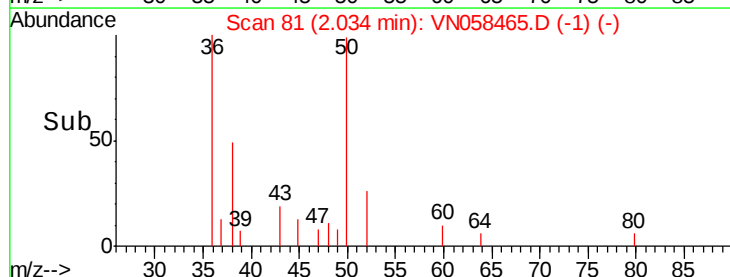
1000

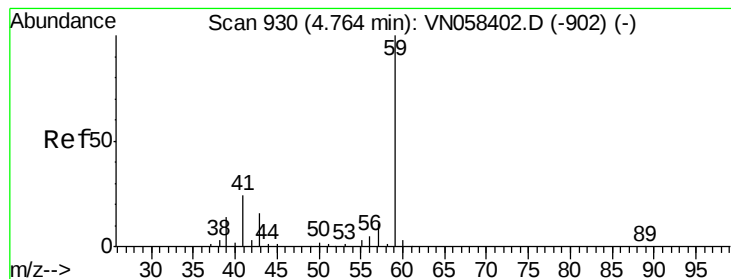
500

0

2.00 2.05 2.10

Time-->



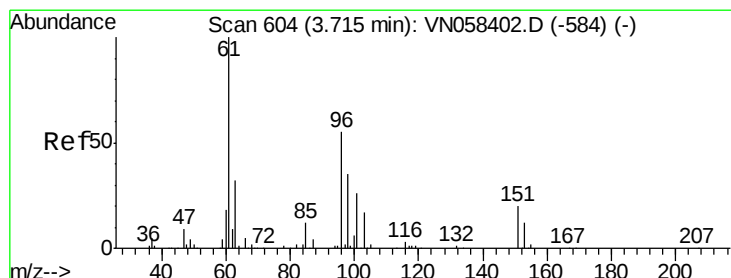
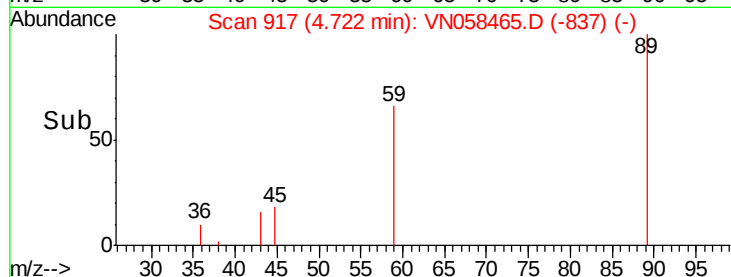
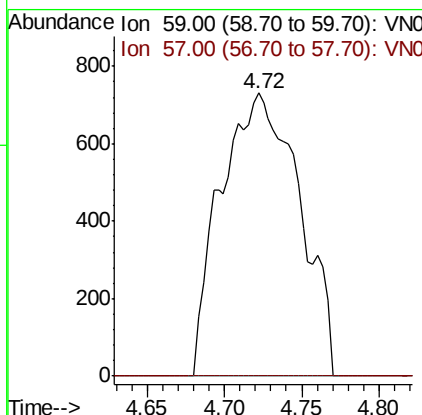
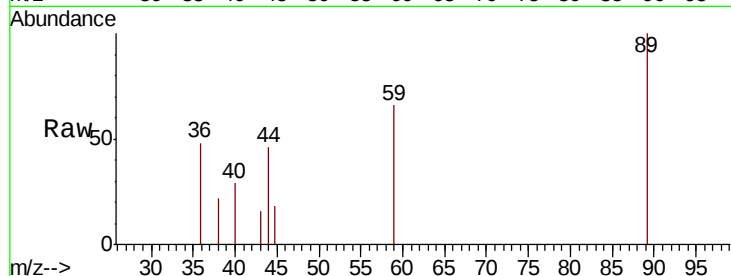


#11

Tert butyl alcohol
 Concen: 3.854 ug/l
 RT: 4.72 min Scan# 917
 Delta R.T. -0.04 min
 Lab File: VN058465.D
 Acq: 1 Oct 2019 15:09

Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

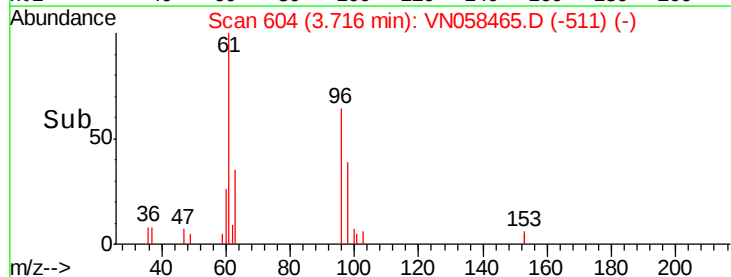
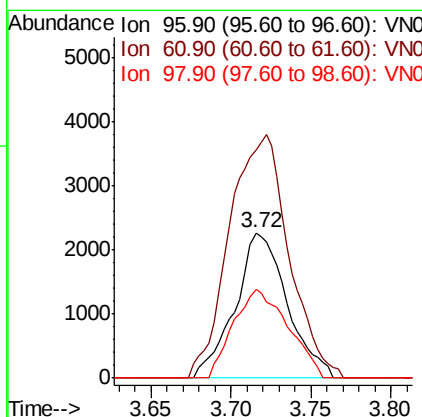
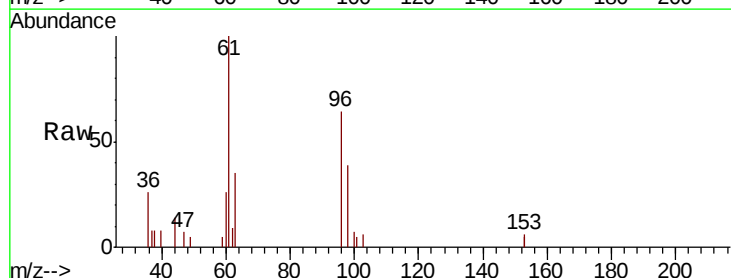
Tot Ion: 59 Resp: 2576
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#

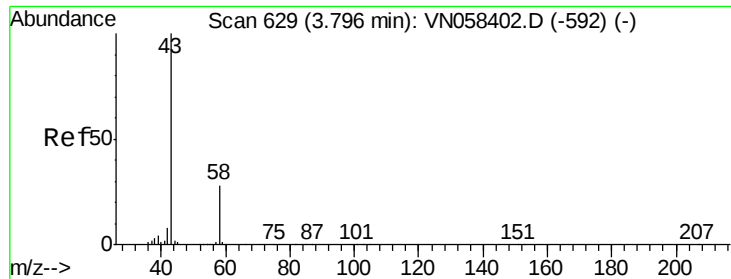


#12

1,1-Dichloroethene
 Concen: 1.301 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN058465.D
 Acq: 1 Oct 2019 15:09

Tgt Ion: 96 Resp: 5051
 Ion Ratio Lower Upper
 96 100
 61 157.2 146.7 220.1
 98 61.4 51.3 76.9

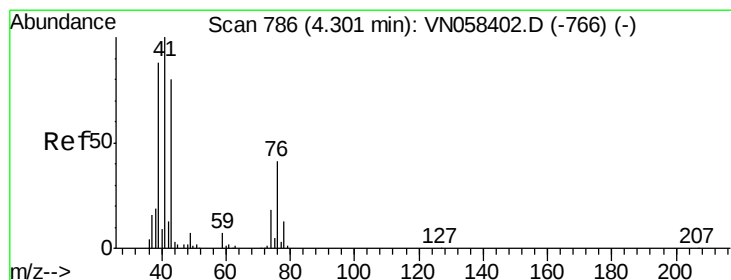
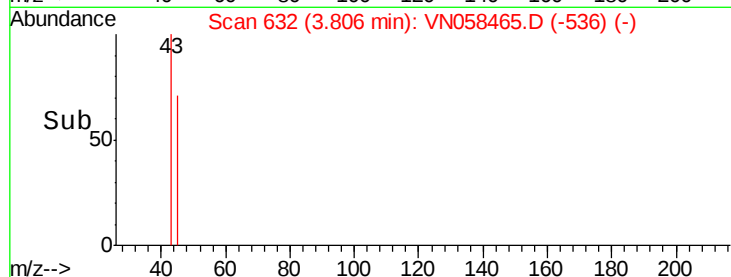
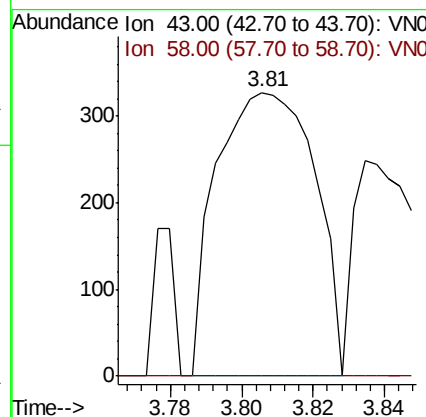
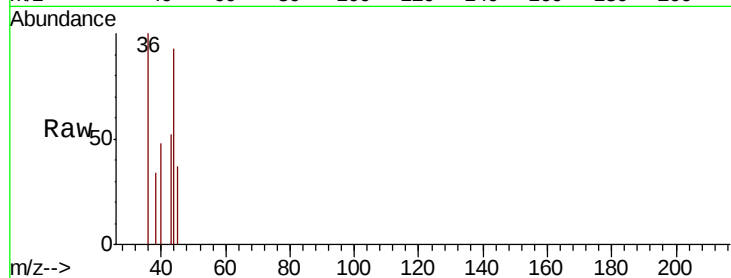




#16
Acetone
Concen: 0.303 ug/l
RT: 3.81 min Scan# 632
Delta R.T. 0.01 min
Lab File: VN058465.D
Acq: 1 Oct 2019 15:09

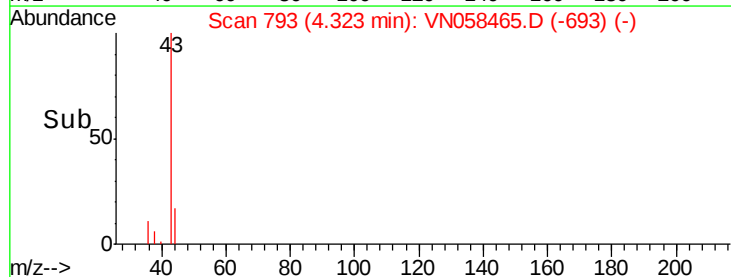
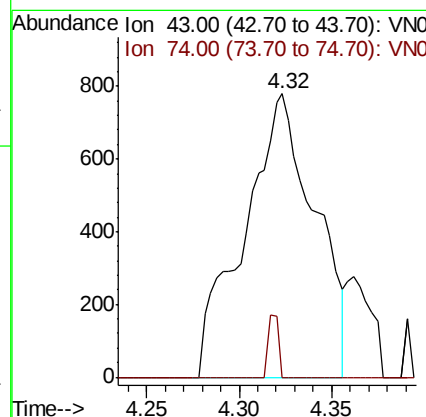
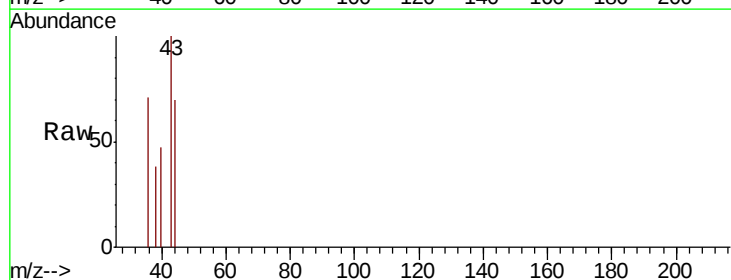
Instrument :
MSVOA_N
ClientSampled :
I.BLK

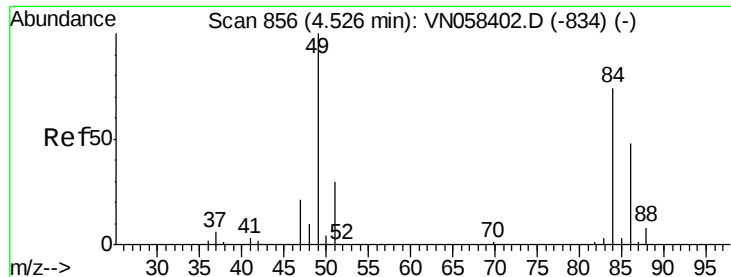
Tot Ion: 43 Resp: 622
Ion Ratio Lower Upper
43 100
58 0.0 22.4 33.6#



#18
Methyl Acetate
Concen: 0.400 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.02 min
Lab File: VN058465.D
Acq: 1 Oct 2019 15:09

Tgt Ion: 43 Resp: 2065
Ion Ratio Lower Upper
43 100
74 3.1 18.0 27.0#





#20

Methylene Chloride

Concen: 0.308 ug/l

RT: 4.53 min Scan# 858

Delta R.T. 0.01 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

Instrument :

MSVOA_N

ClientSampled :

I.BLK

Tot Ion: 84 Resp: 1460

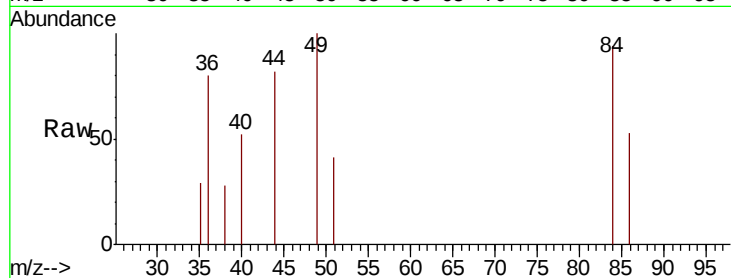
Ion Ratio Lower Upper

84 100

49 106.6 107.9 161.9#

51 43.7 32.8 49.2

86 56.5 51.5 77.3

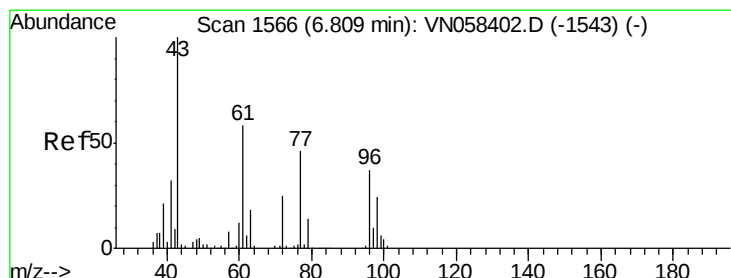
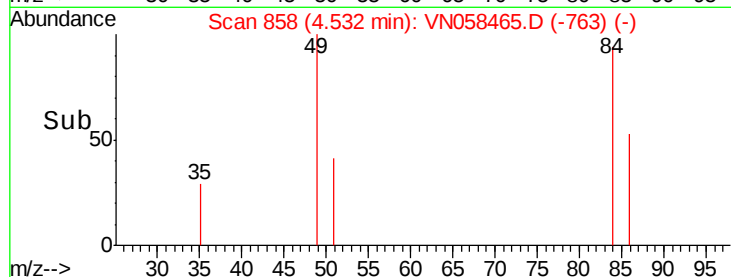
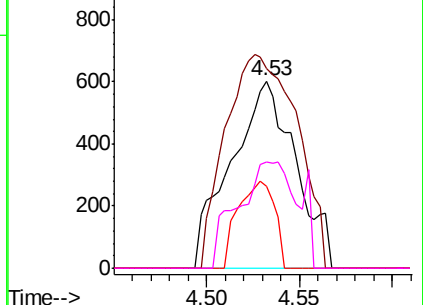


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#27

cis-1,2-Dichloroethene

Concen: 0.743 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

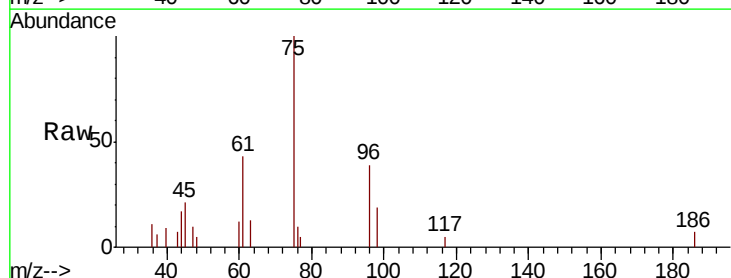
Tgt Ion: 96 Resp: 3749

Ion Ratio Lower Upper

96 100

61 142.2 0.0 318.8

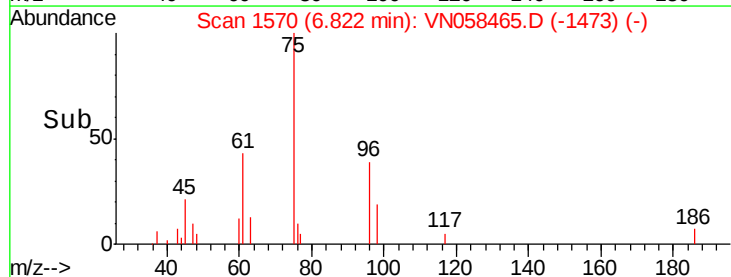
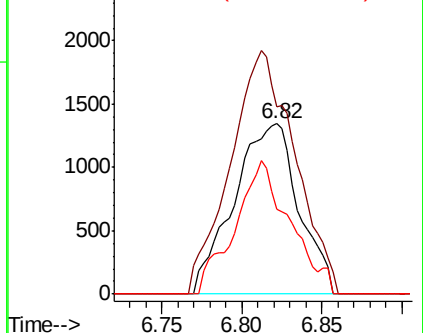
98 66.1 0.0 129.8

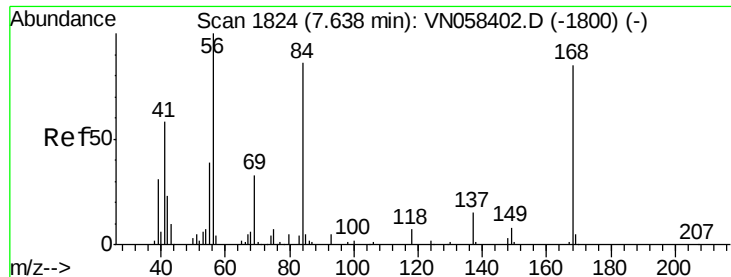


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#31

Cyclohexane

Concen: 1.339 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

Instrument :

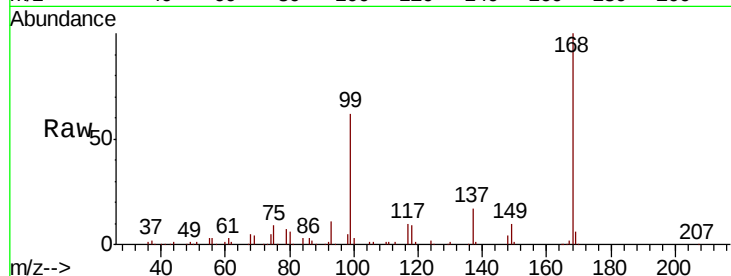
MSVOA_N

ClientSampleId :

I.BLK

Tot Ion: 56 Resp: 11152

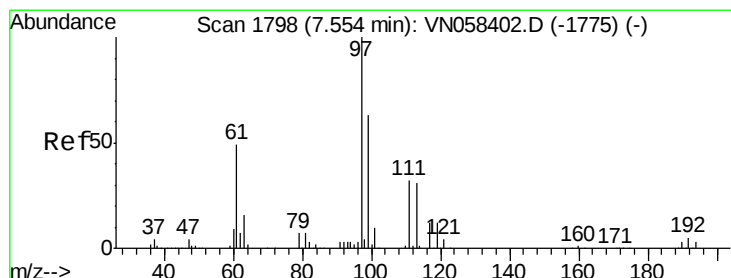
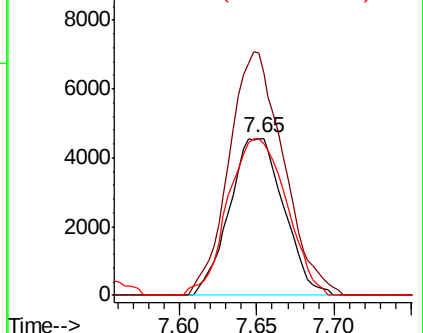
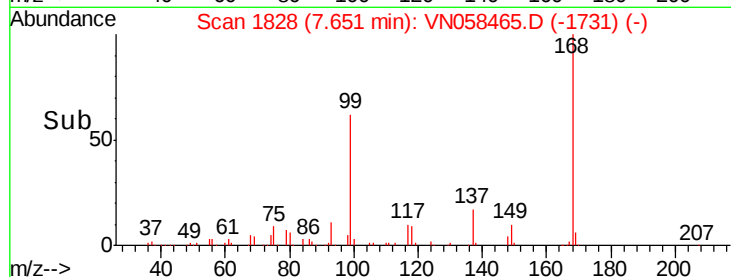
Ion	Ratio	Lower	Upper
56	100		
69	154.9	26.2	39.4#
84	99.6	67.6	101.4



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



#32

1,1,1-Trichloroethane

Concen: 7.622 ug/l

RT: 7.56 min Scan# 1799

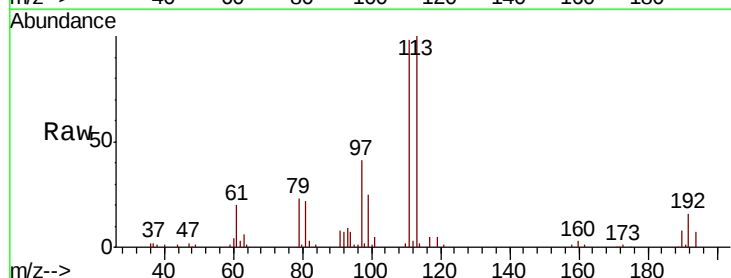
Delta R.T. 0.00 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

Tgt Ion: 97 Resp: 54288

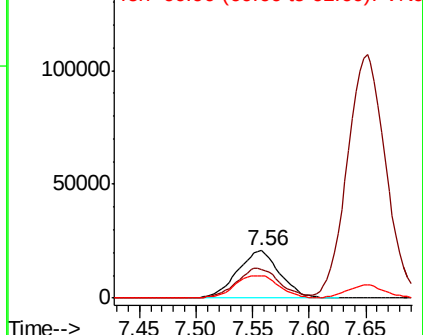
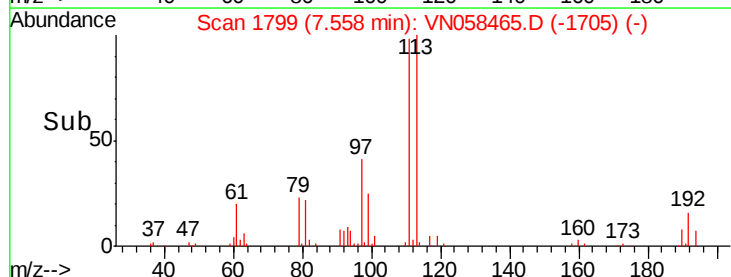
Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.1	76.7
61	50.7	39.2	58.8

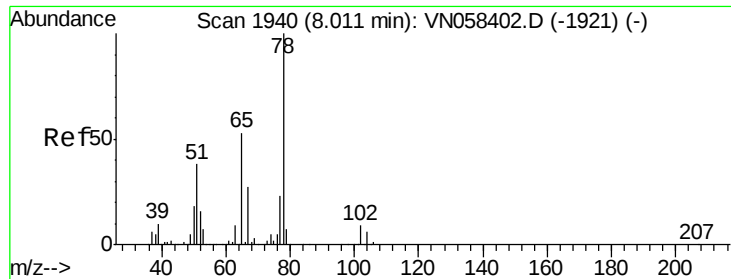


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

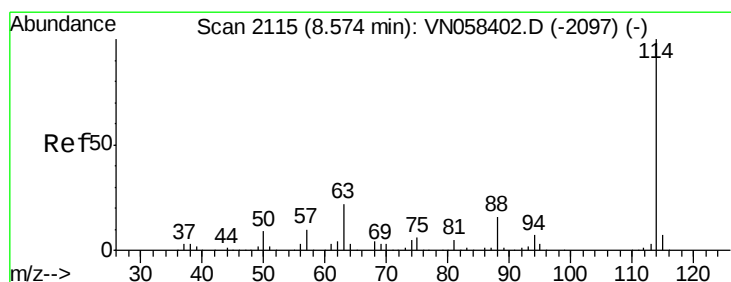
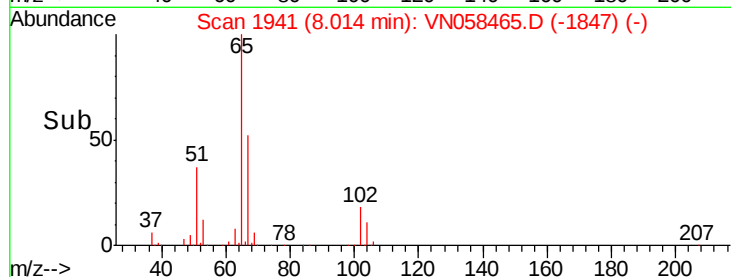
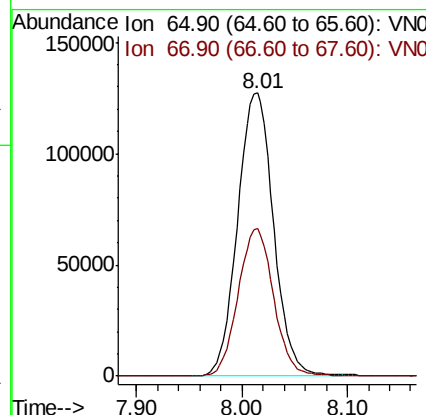
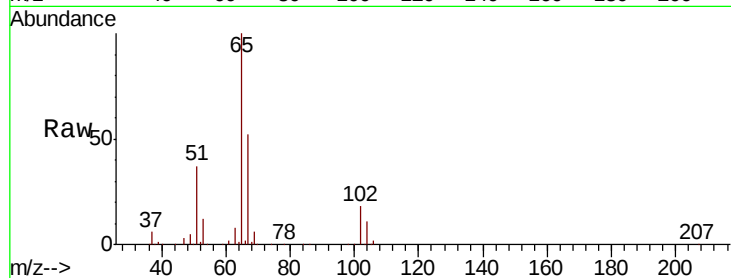




#33
 1,2-Dichloroethane-d4
 Concen: 49.992 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058465.D
 Acq: 1 Oct 2019 15:09

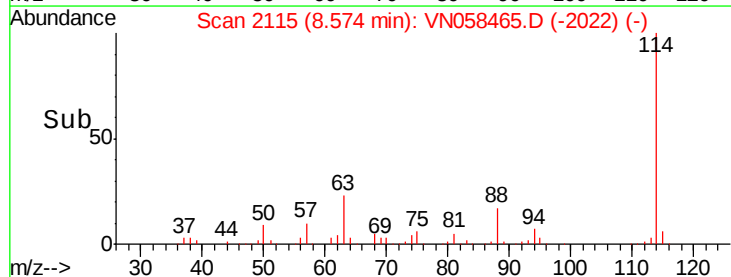
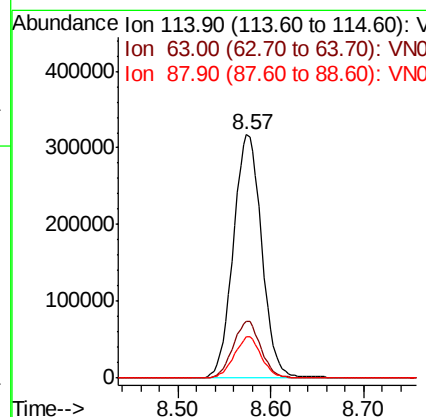
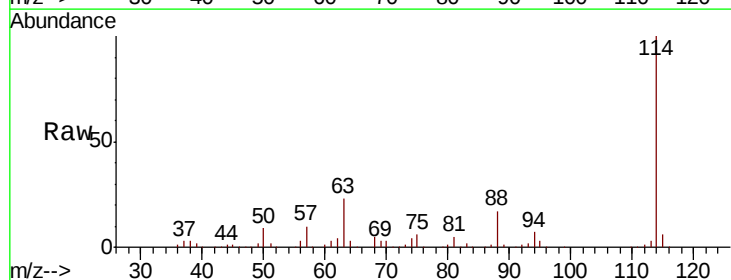
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

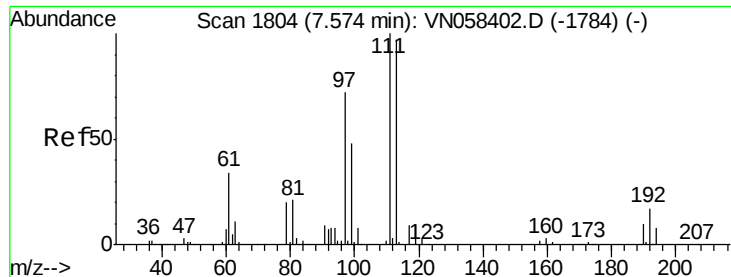
Tot Ion: 65 Resp: 300763
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058465.D
 Acq: 1 Oct 2019 15:09

Tgt Ion: 114 Resp: 675641
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 45.0
 88 16.7 0.0 32.2

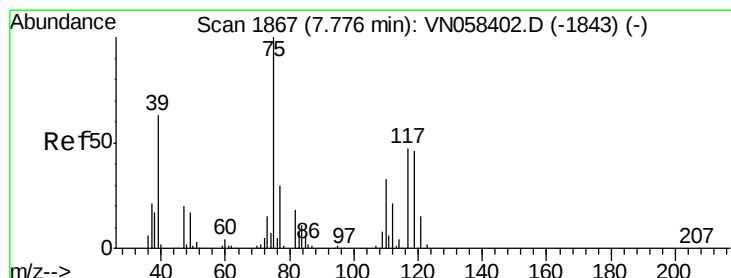
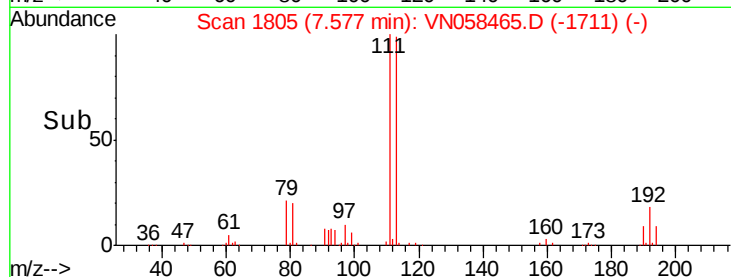
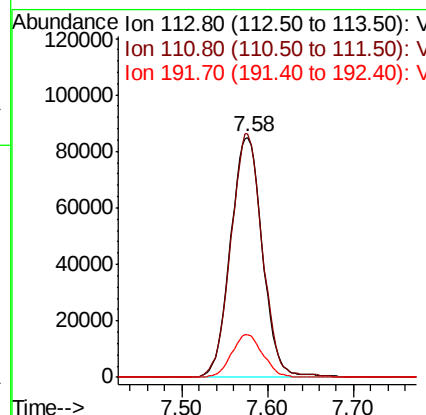
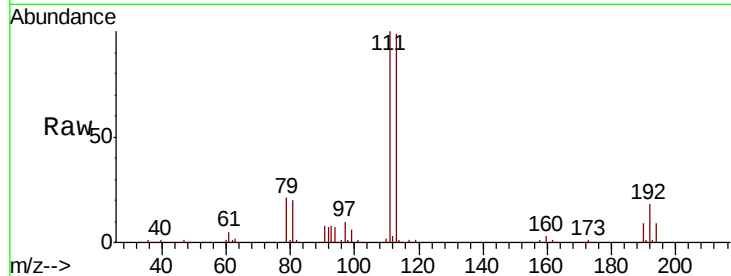




#35
 Dibromofluoromethane
 Concen: 52.712 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058465.D
 Acq: 1 Oct 2019 15:09

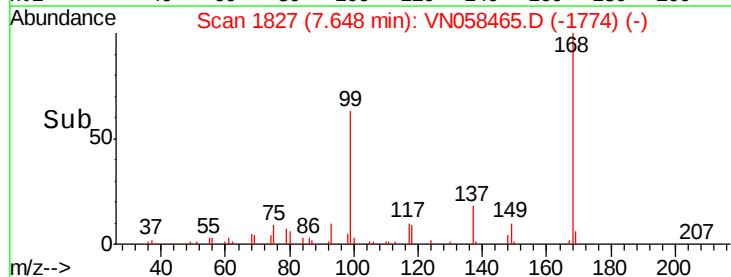
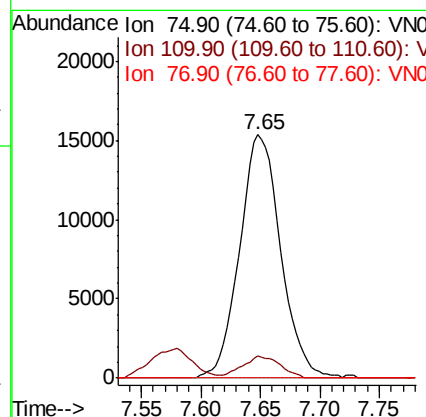
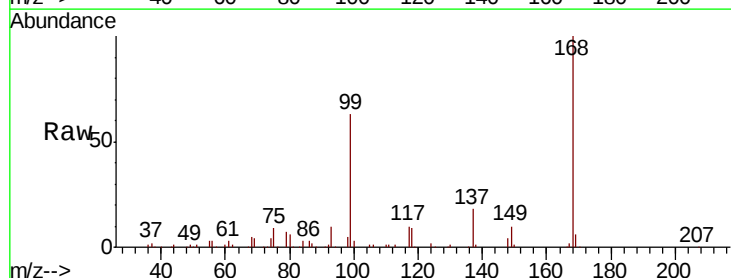
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

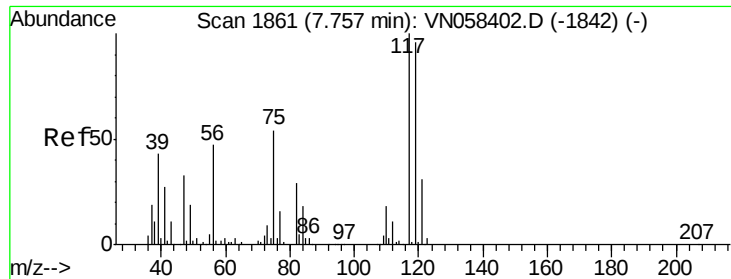
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.2	83.4	125.2
192	17.5	14.9	22.3



#36
 1,1-Dichloropropene
 Concen: 5.676 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058465.D
 Acq: 1 Oct 2019 15:09

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	16.4	49.2#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 7.443 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

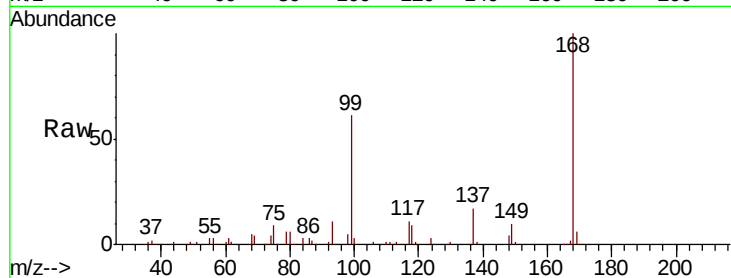
Tot Ion:117 Resp: 43403

Ion Ratio Lower Upper

117 100

119 5.5 76.6 115.0#

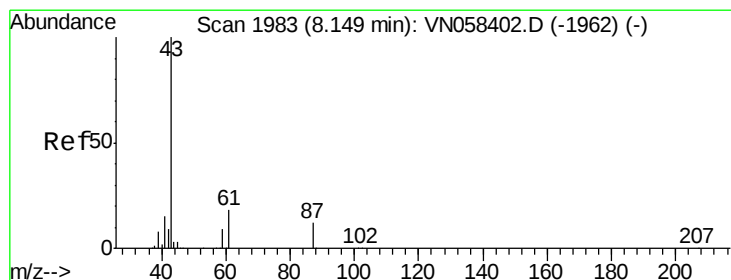
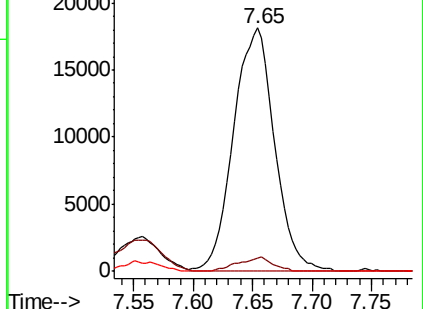
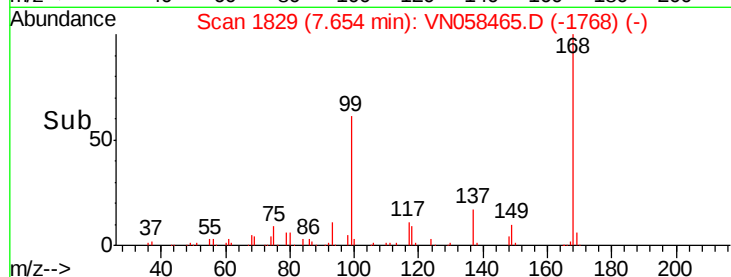
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.451 ug/l

RT: 8.27 min Scan# 2021

Delta R.T. 0.12 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

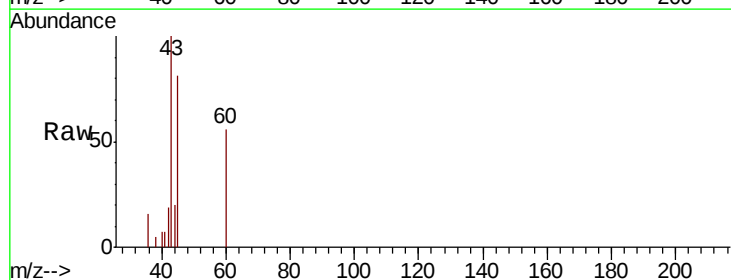
Tgt Ion: 43 Resp: 25243

Ion Ratio Lower Upper

43 100

61 0.0 14.8 22.2#

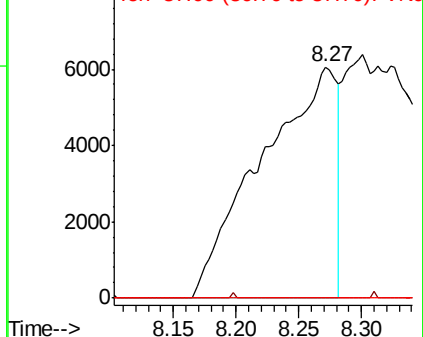
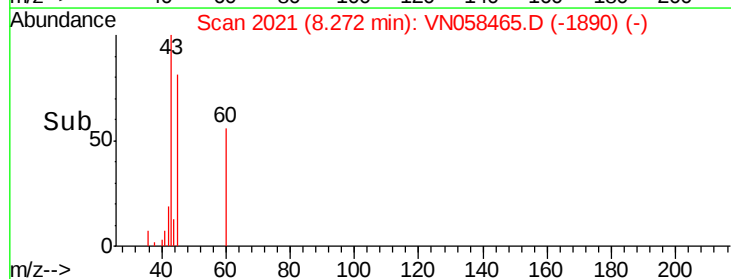
87 0.0 9.7 14.5#

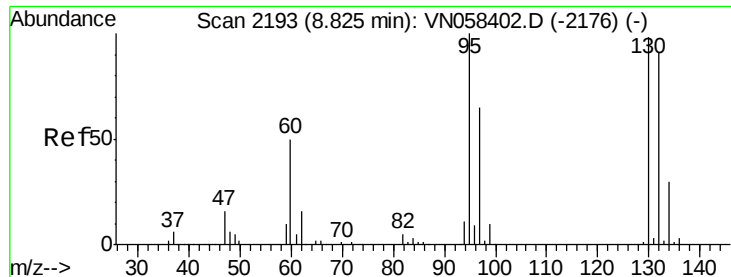


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

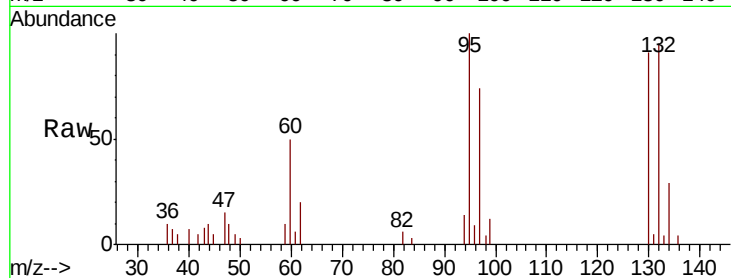




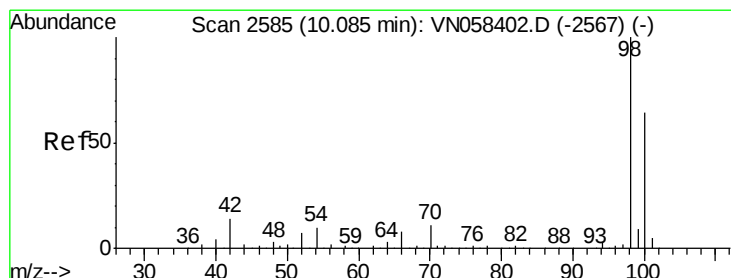
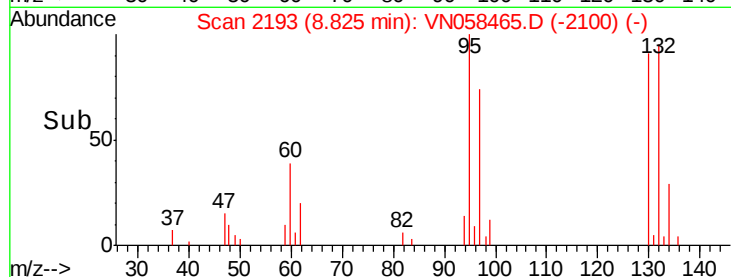
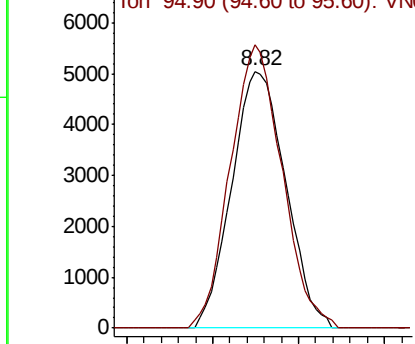
#44
 Trichloroethene
 Concen: 2.396 ug/l
 RT: 8.82 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VN058465.D
 Acq: 1 Oct 2019 15:09

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Tot Ion:130 Resp: 10986
 Ion Ratio Lower Upper
 130 100
 95 110.3 0.0 204.2

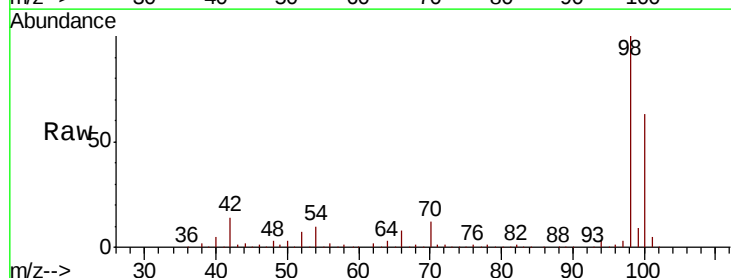


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VN

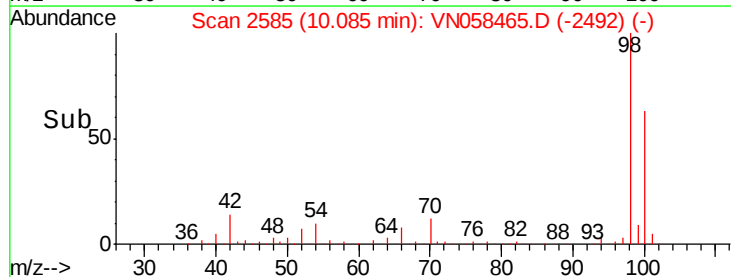
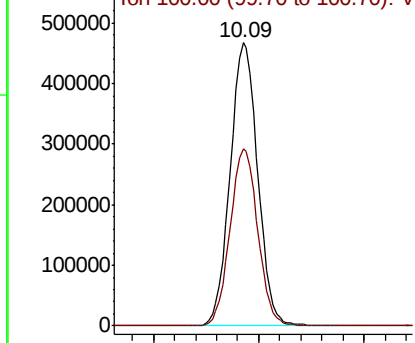


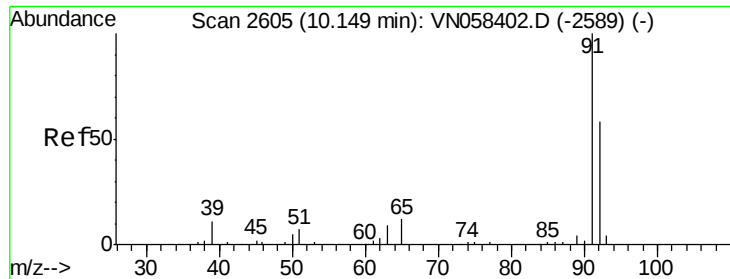
#50
 Toluene-d8
 Concen: 52.047 ug/l
 RT: 10.09 min Scan# 2585
 Delta R.T. 0.00 min
 Lab File: VN058465.D
 Acq: 1 Oct 2019 15:09

Tgt Ion: 98 Resp: 844293
 Ion Ratio Lower Upper
 98 100
 100 62.9 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN
 Ion 100.00 (99.70 to 100.70): VN





#52

Toluene

Concen: 0.551 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

Instrument :

MSVOA_N

ClientSampled :

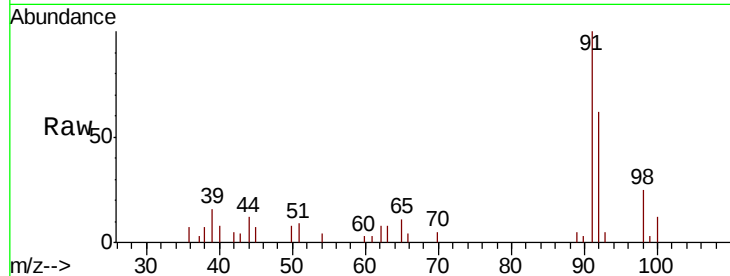
I.BLK

Tot Ion: 92 Resp: 6439

Ion Ratio Lower Upper

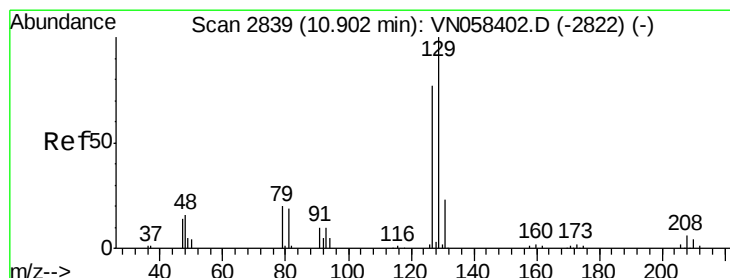
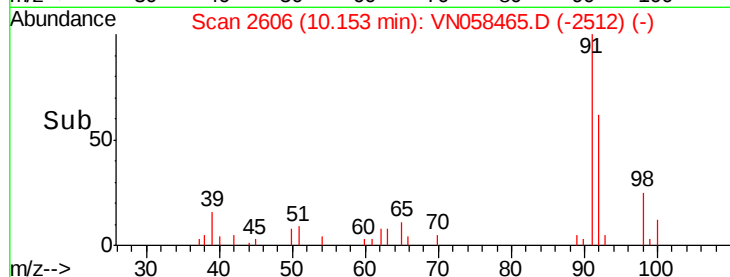
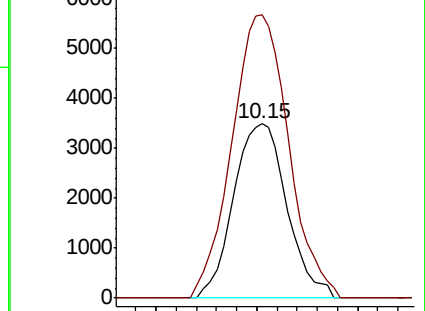
92 100

91 172.9 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VN058402.D (-2589) (-)

Ion 91.00 (90.70 to 91.70): VN058402.D (-2589) (-)



#60

Dibromochloromethane

Concen: 47.943 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058465.D

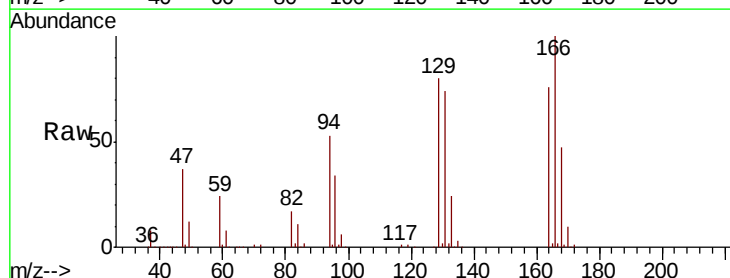
Acq: 1 Oct 2019 15:09

Tgt Ion: 129 Resp: 211402

Ion Ratio Lower Upper

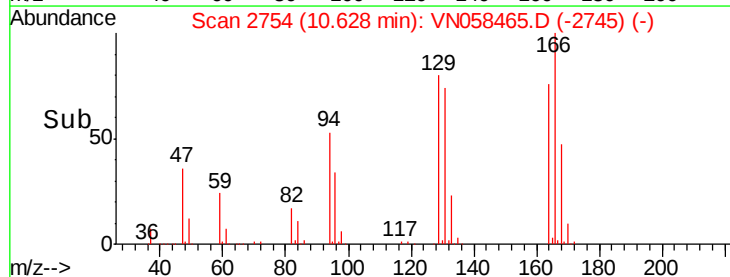
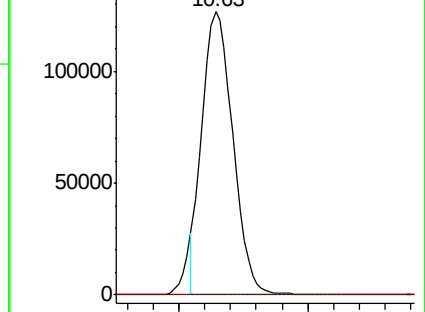
129 100

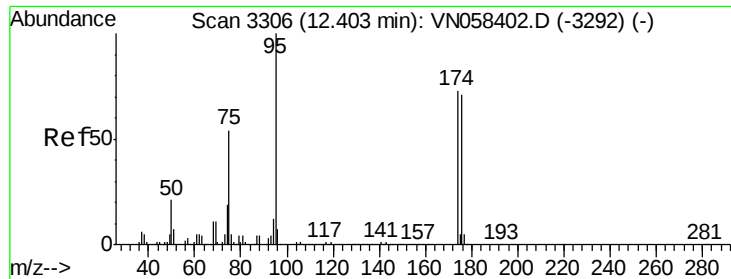
127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): VN058402.D (-2822) (-)

Ion 126.80 (126.50 to 127.50): VN058402.D (-2822) (-)

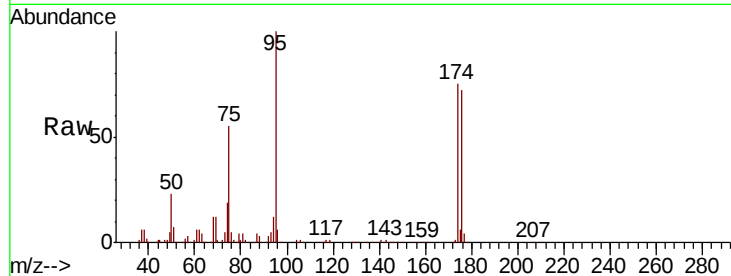




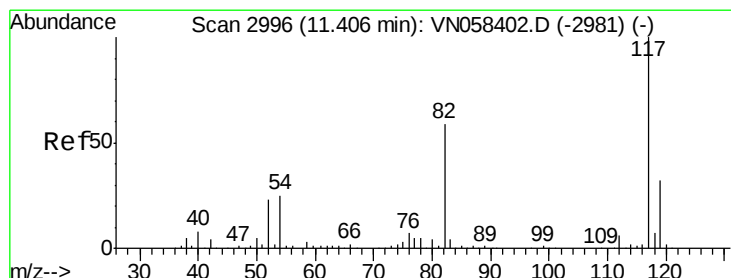
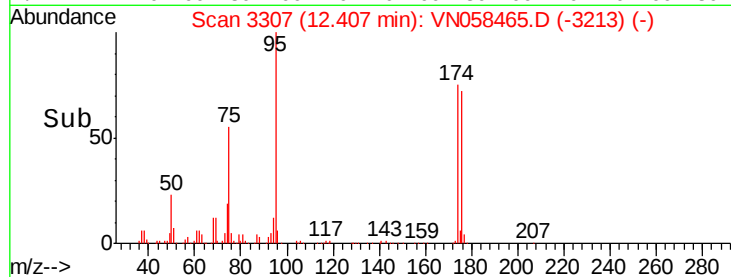
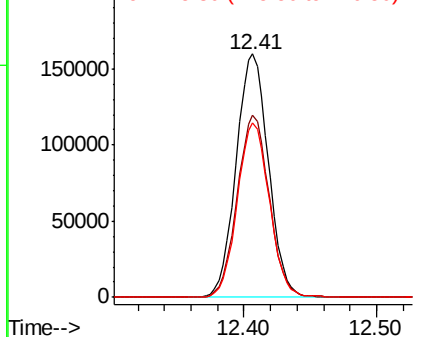
#62
4-Bromofluorobenzene
Concen: 46.139 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058465.D
Acq: 1 Oct 2019 15:09

Instrument :
MSVOA_N
ClientSampled :
I.BLK

Tot Ion: 95 Resp: 270628
Ion Ratio Lower Upper
95 100
174 74.3 0.0 150.6
176 71.3 0.0 146.2

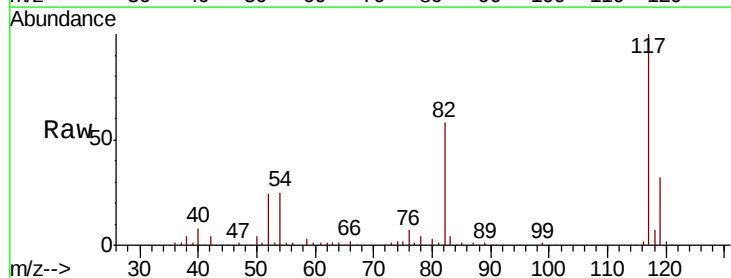


Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)
Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)
Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)

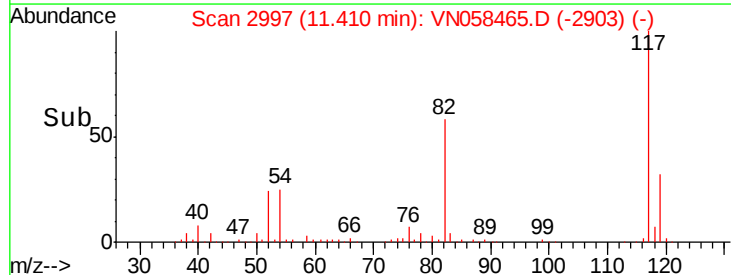
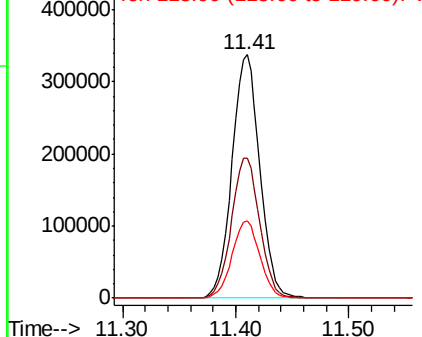


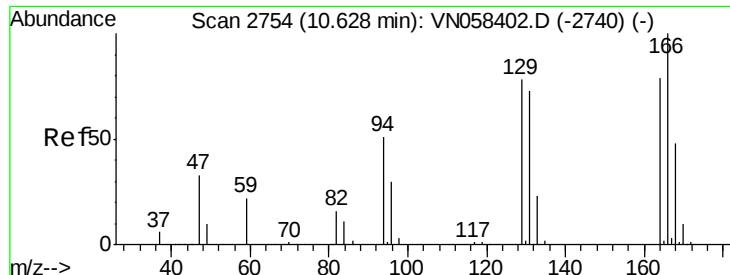
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058465.D
Acq: 1 Oct 2019 15:09

Tgt Ion: 117 Resp: 576665
Ion Ratio Lower Upper
117 100
82 57.6 47.4 71.0
119 31.7 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)
Ion 82.00 (81.70 to 82.70): VN058402.D (-2981) (-)
Ion 118.90 (118.60 to 119.60): VN058402.D (-2981) (-)





#64

Tetrachloroethene

Concen: 59.289 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

Tot Ion:164 Resp: 217219

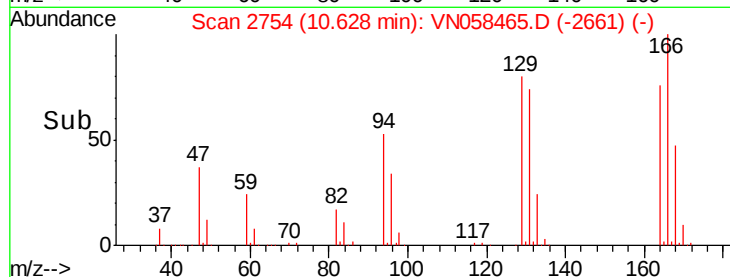
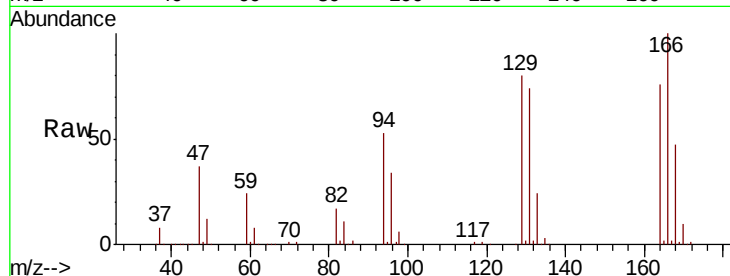
Ion Ratio Lower Upper

164 100

166 131.0 101.1 151.7

129 104.6 79.2 118.8

131 96.5 74.1 111.1

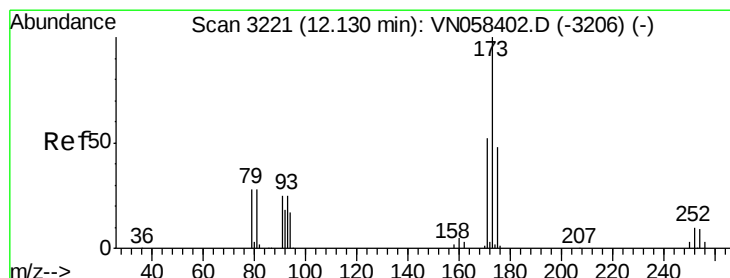
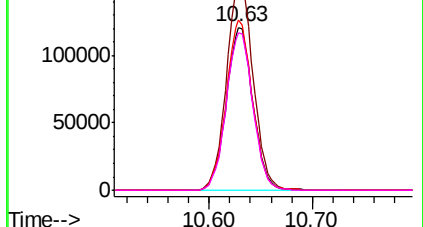


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 1.383 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

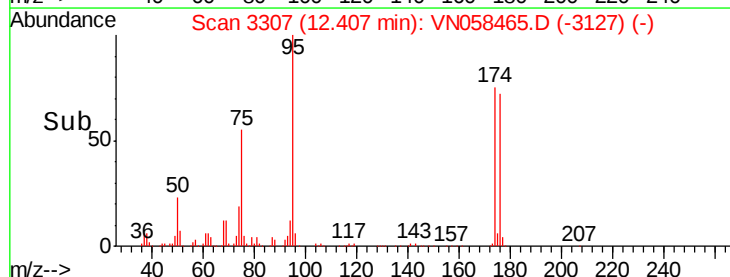
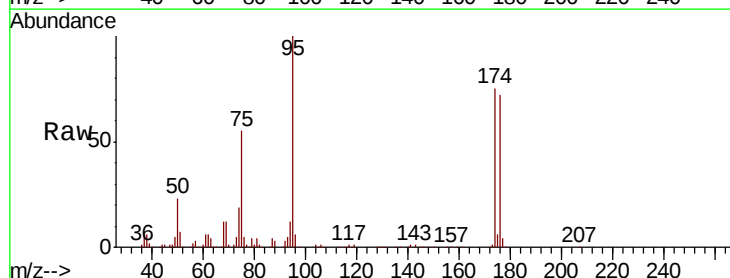
Tgt Ion:173 Resp: 1862

Ion Ratio Lower Upper

173 100

175 684.4 24.3 73.0#

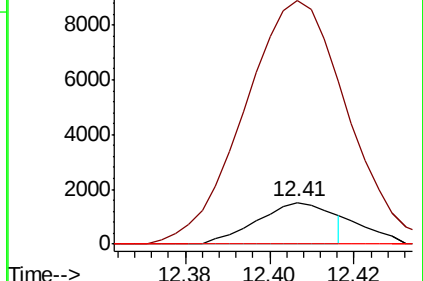
254 0.0 0.1 0.1#

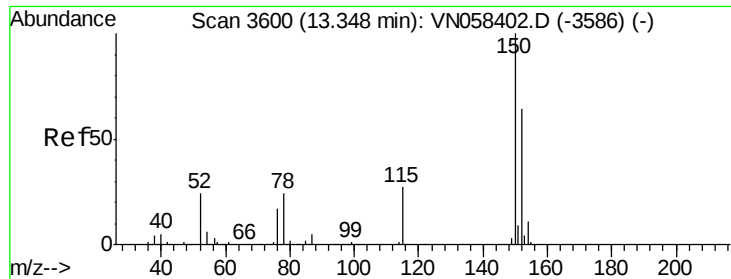


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

Instrument :

MSVOA_N

ClientSampled :

I.BLK

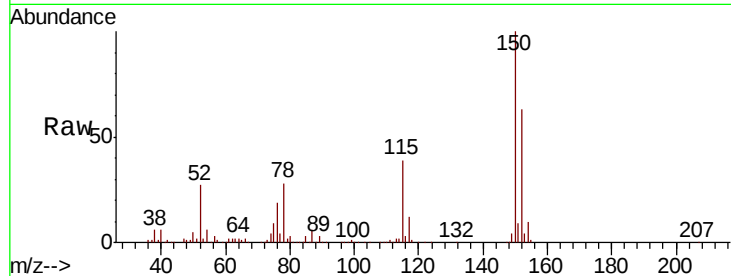
Tot Ion:152 Resp: 223720

Ion Ratio Lower Upper

152 100

115 62.3 30.0 90.0

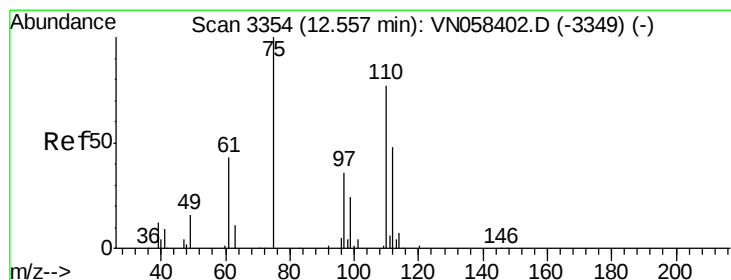
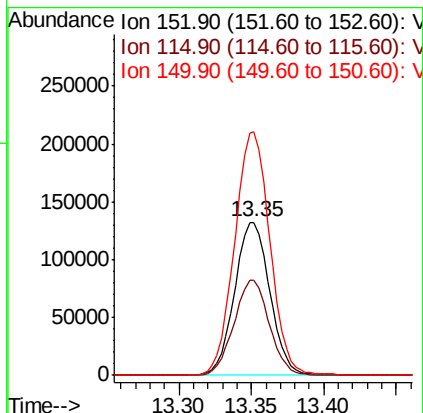
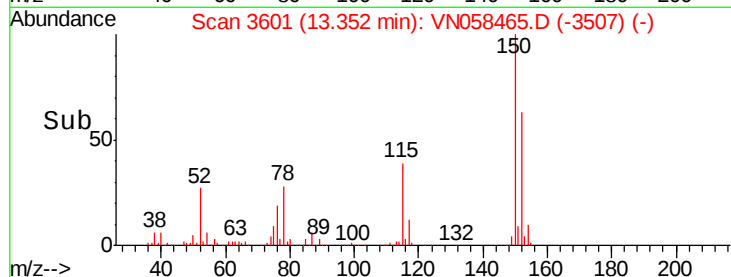
150 159.0 0.0 348.2



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



#76

1,2,3-Trichloropropane

Concen: 36.580 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058465.D

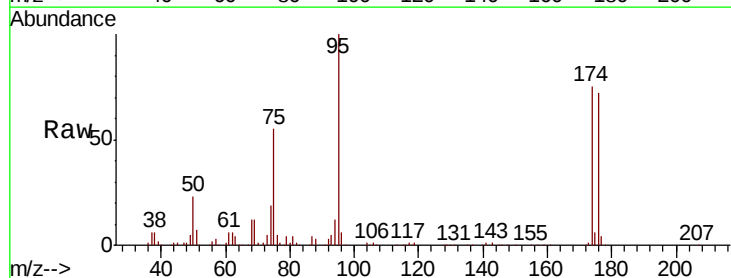
Acq: 1 Oct 2019 15:09

Tgt Ion: 75 Resp: 149477

Ion Ratio Lower Upper

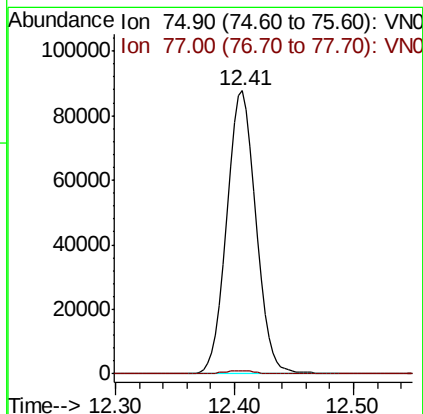
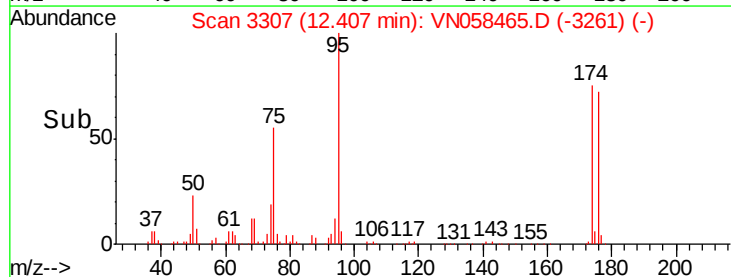
75 100

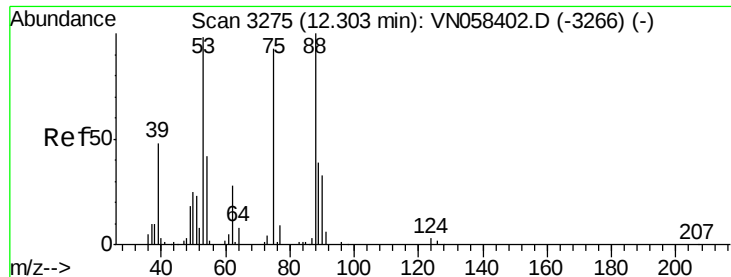
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 111.099 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

Instrument :

MSVOA_N

ClientSampled :

I.BLK

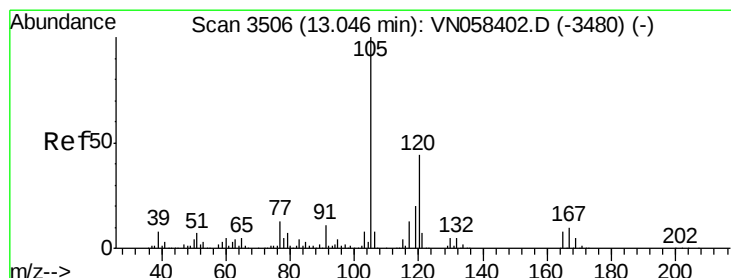
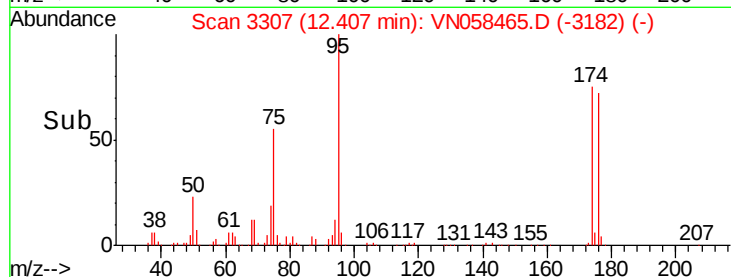
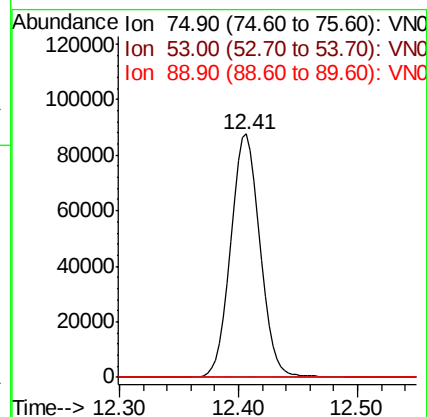
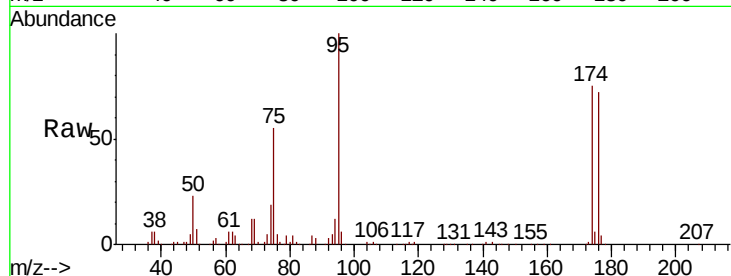
Tot Ion: 75 Resp: 149477

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.0 35.0 52.4#



#84

1,2,4-Trimethylbenzene

Concen: 0.233 ug/l

RT: 13.05 min Scan# 3507

Delta R.T. 0.00 min

Lab File: VN058465.D

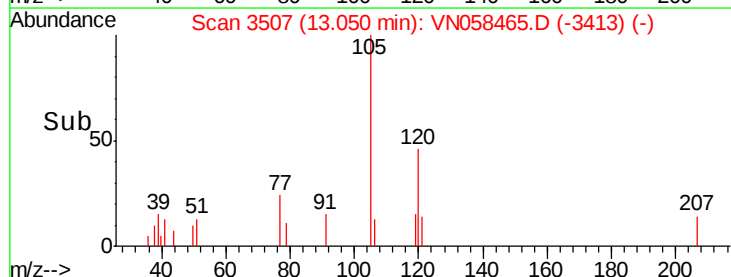
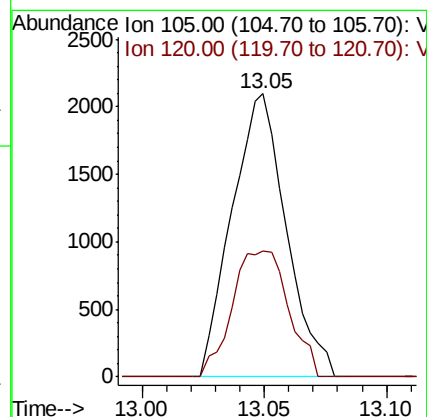
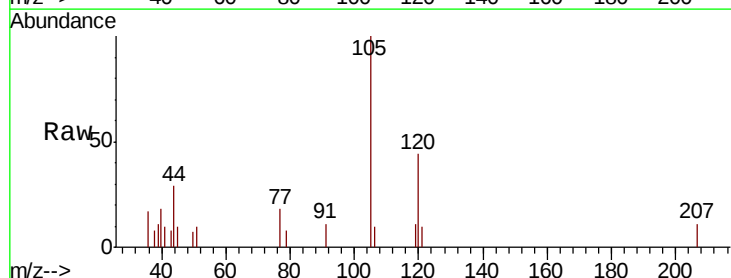
Acq: 1 Oct 2019 15:09

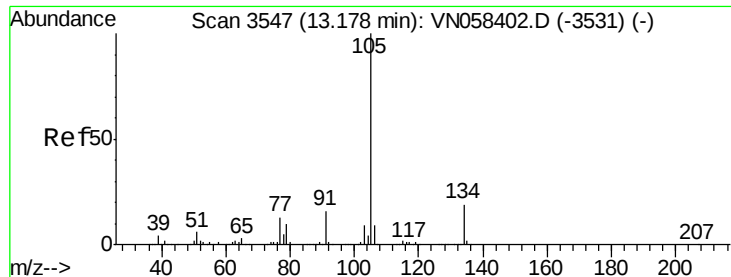
Tgt Ion: 105 Resp: 3234

Ion Ratio Lower Upper

105 100

120 46.3 21.7 65.1





#85

sec-Butylbenzene

Concen: 0.210 ug/l

RT: 13.05 min Scan# 3507

Delta R.T. -0.13 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

Instrument :

MSVOA_N

ClientSampleId :

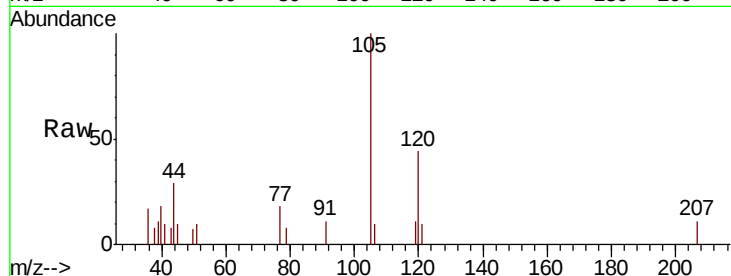
I.BLK

Tot Ion:105 Resp: 3234

Ion Ratio Lower Upper

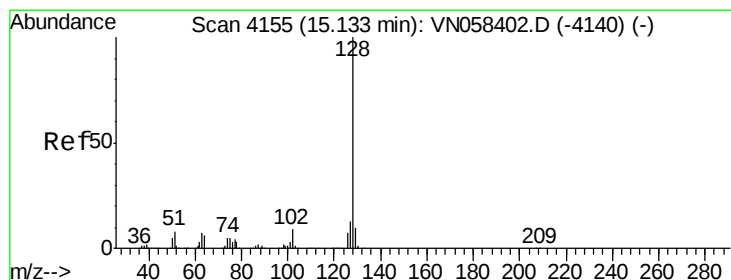
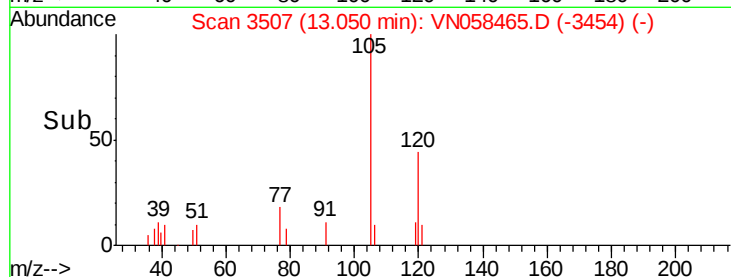
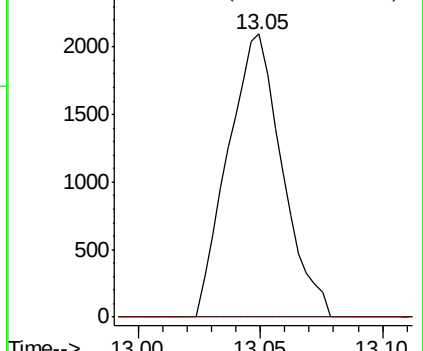
105 100

134 0.0 9.4 28.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#95

Naphthalene

Concen: 0.333 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN058465.D

Acq: 1 Oct 2019 15:09

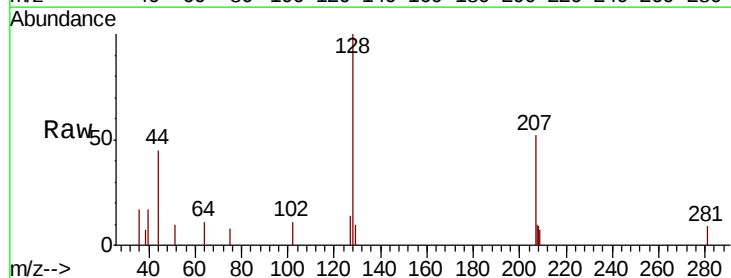
Tgt Ion:128 Resp: 3961

Ion Ratio Lower Upper

128 100

127 7.7 10.2 15.4#

129 8.9 8.3 12.5



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

