

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121119\
 Data File : VN059563.D
 Acq On : 11 Dec 2019 15:46
 Operator : JC/SP
 Sample : IBLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Dec 12 00:52:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 10 01:09:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	247083	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	395346	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	355953	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142475	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	175778	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
35) Dibromofluoromethane	7.57	113	124204	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	
50) Toluene-d8	10.08	98	490170	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
62) 4-Bromofluorobenzene	12.40	95	162198	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	

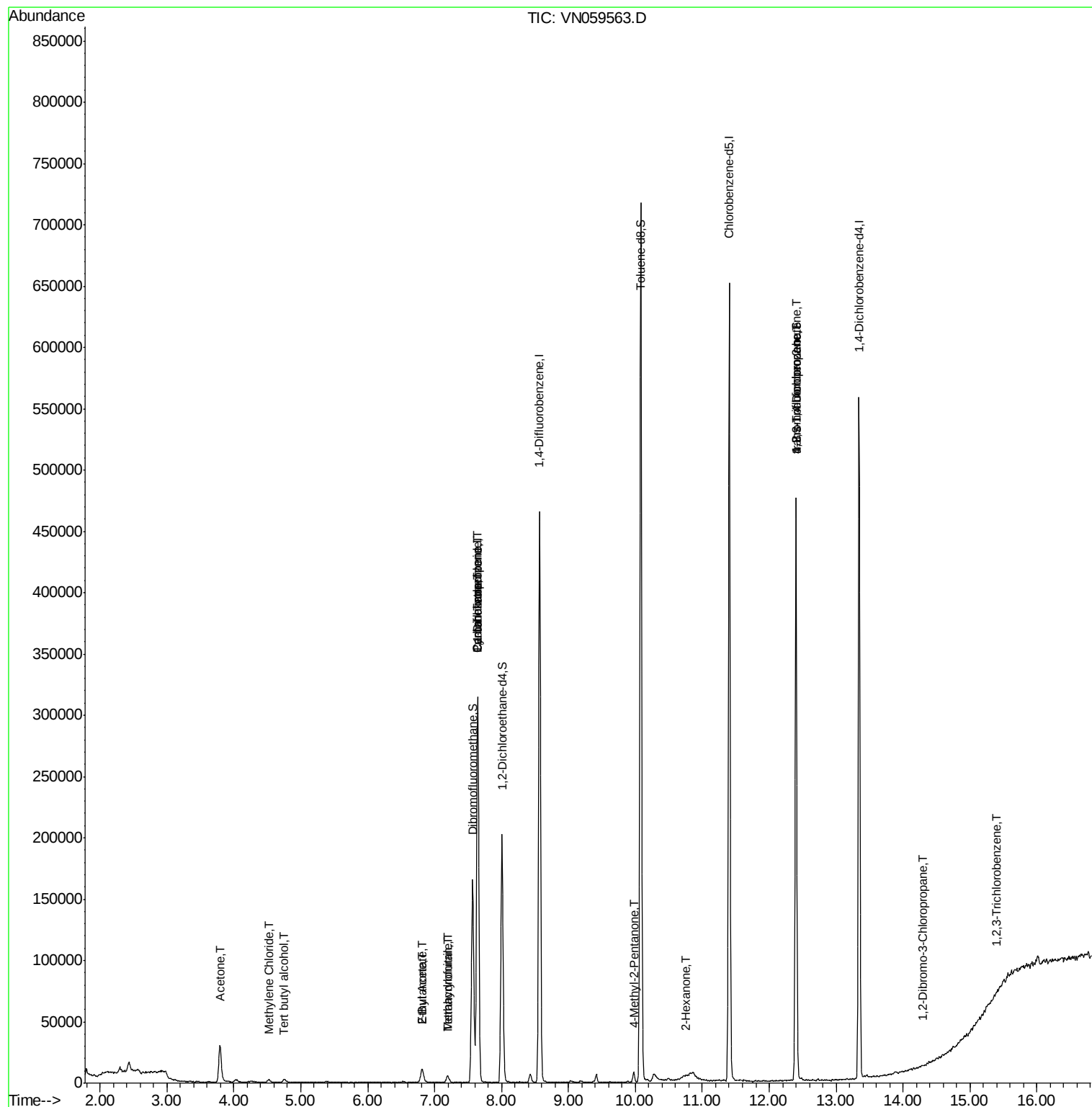
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	1686	2.951	ug/l #	87
16) Acetone	3.79	43	52892	32.788	ug/l	96
17) Carbon Disulfide	4.03	76	2313	Below Cal	#	80
20) Methylene Chloride	4.52	84	1860	0.368	ug/l #	74
25) 2-Butanone	6.82	43	18579	8.556	ug/l	97
29) Tetrahydrofuran	7.19	42	5018	3.322	ug/l #	82
31) Cyclohexane	7.64	56	5587	1.074	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	20377	5.024	ug/l #	50
37) Ethyl Acetate	6.82	43	18579	5.345	ug/l #	69
38) Carbon Tetrachloride	7.64	117	24904	6.229	ug/l #	15
41) Methacrylonitrile	7.18	41	1299	0.659	ug/l #	100
51) 4-Methyl-2-Pentanone	9.98	43	5942	0.527	ug/l	88
59) 2-Hexanone	10.75	43	87	2.240	ug/l	79
76) 1,2,3-Trichloropropane	12.40	75	86644	23.781	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	86644	63.982	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	14.29	75	91	2.185	ug/l #	3
96) 1,2,3-Trichlorobenzene	15.39	180	59	2.428	ug/l #	17

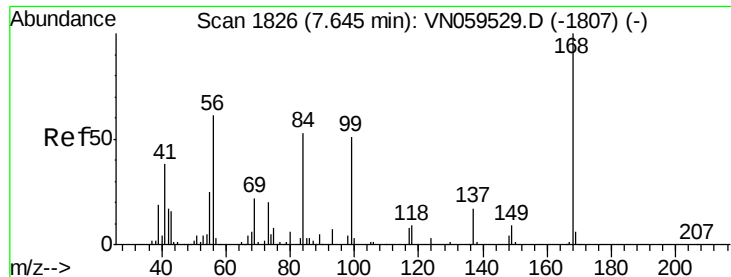
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059563.D

Acq: 11 Dec 2019 15:46

Instrument :

MSVOA_N

ClientSampled :

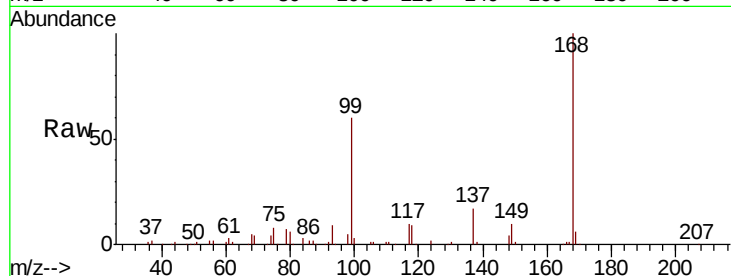
IBLK

Tot Ion:168 Resp: 247083

Ion Ratio Lower Upper

168 100

99 60.0 46.6 70.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

120000

100000

80000

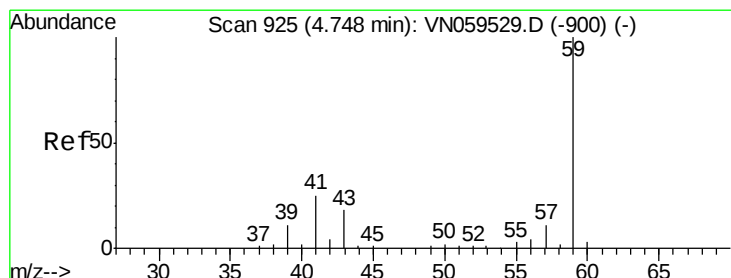
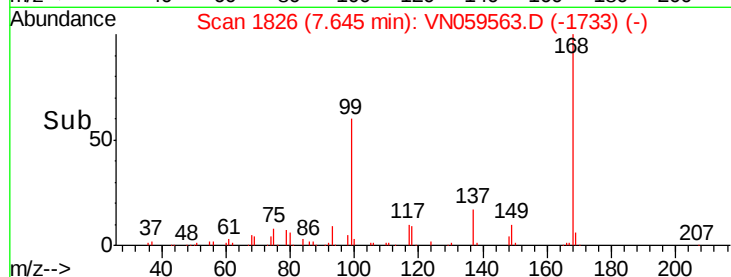
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 2.951 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.01 min

Lab File: VN059563.D

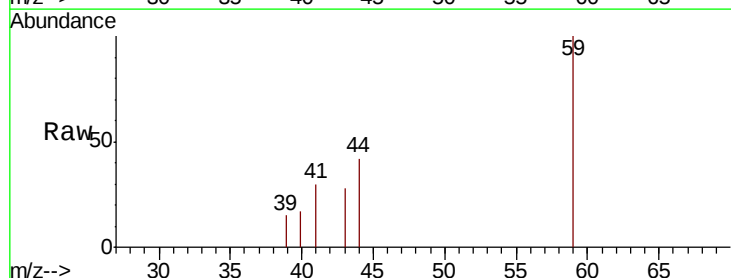
Acq: 11 Dec 2019 15:46

Tgt Ion: 59 Resp: 1686

Ion Ratio Lower Upper

59 100

57 5.9 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

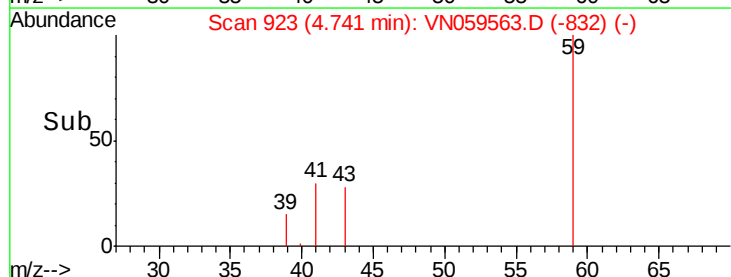
1500

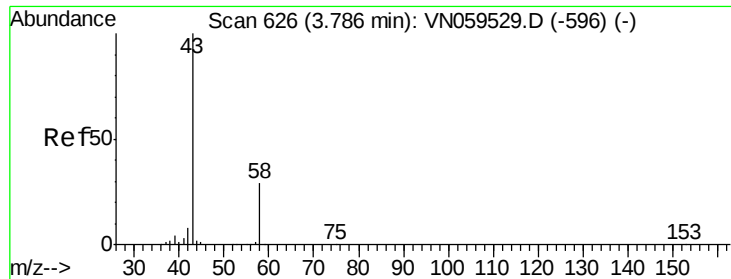
1000

500

0

Time--> 4.68 4.70 4.72 4.74 4.76





#16

Acetone

Concen: 32.788 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059563.D

Acq: 11 Dec 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

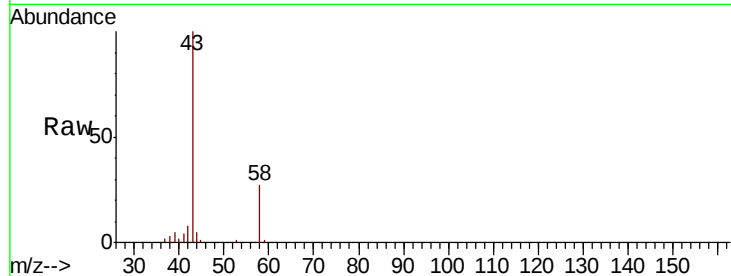
IBLK

Tot Ion: 43 Resp: 52892

Ion Ratio Lower Upper

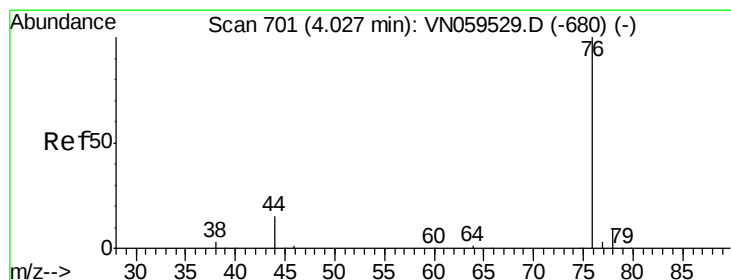
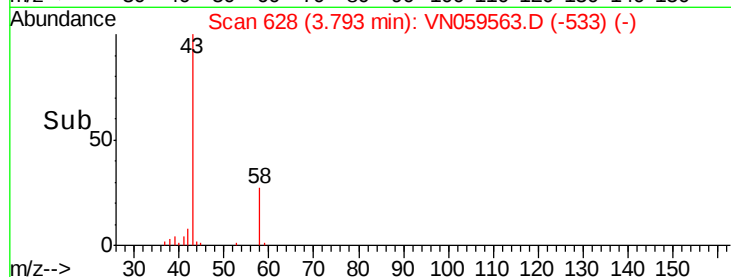
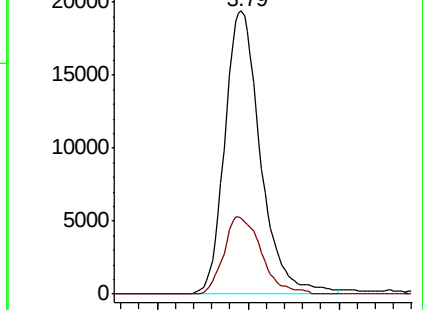
43 100

58 26.8 23.0 34.4



Abundance Ion 43.00 (42.70 to 43.70): VN059529.D (-596) (-)

Ion 58.00 (57.70 to 58.70): VN059529.D (-596) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN059563.D

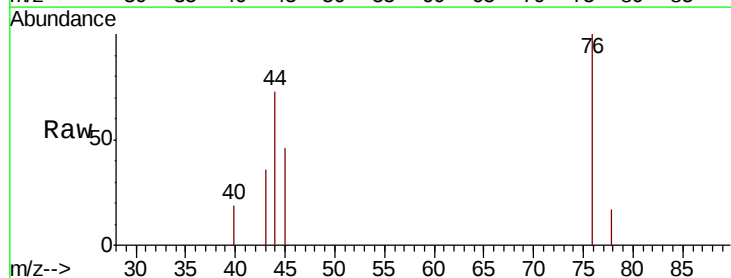
Acq: 11 Dec 2019 15:46

Tgt Ion: 76 Resp: 2313

Ion Ratio Lower Upper

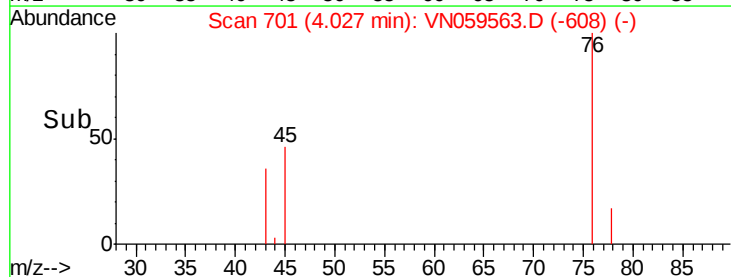
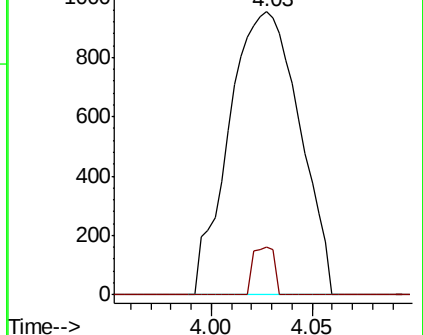
76 100

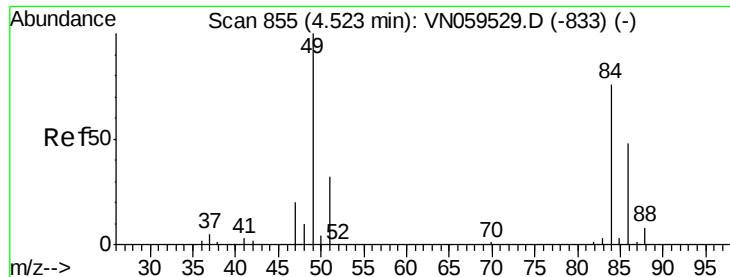
78 16.7 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VN059529.D (-680) (-)

Ion 77.90 (77.60 to 78.60): VN059529.D (-680) (-)

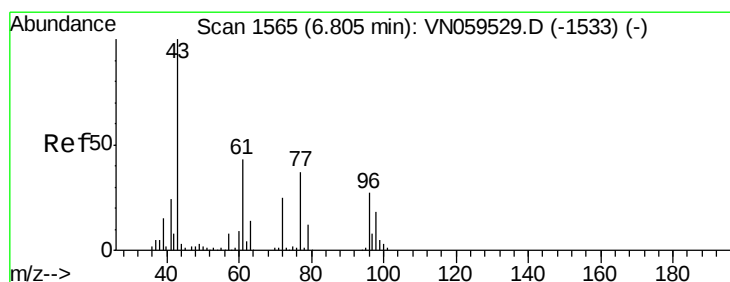
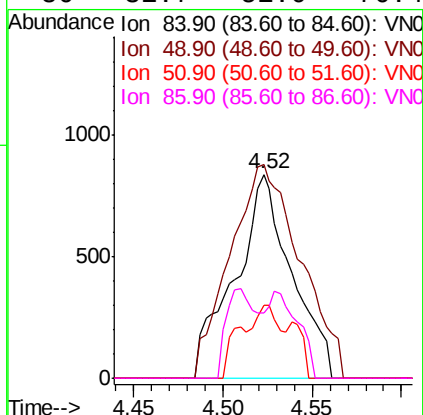
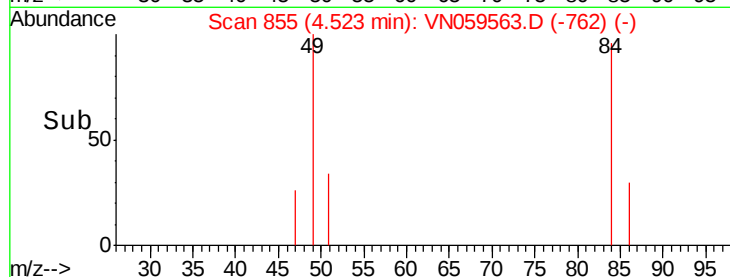
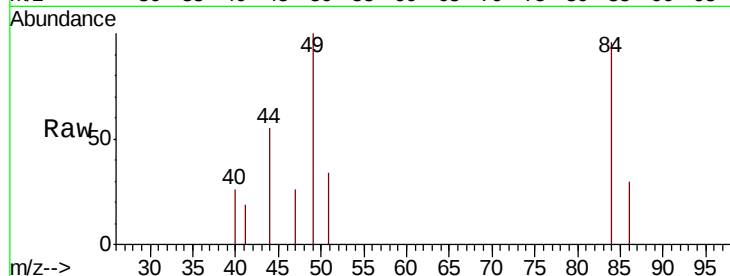




#20
Methvlene Chloride
Concen: 0.368 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059563.D
Acq: 11 Dec 2019 15:46

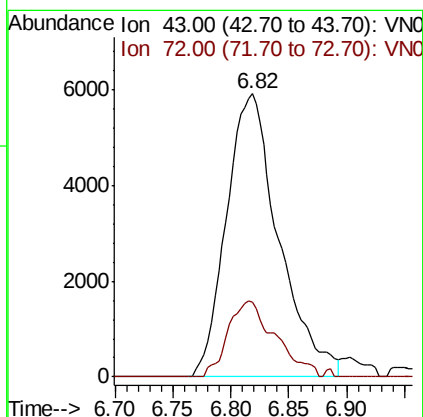
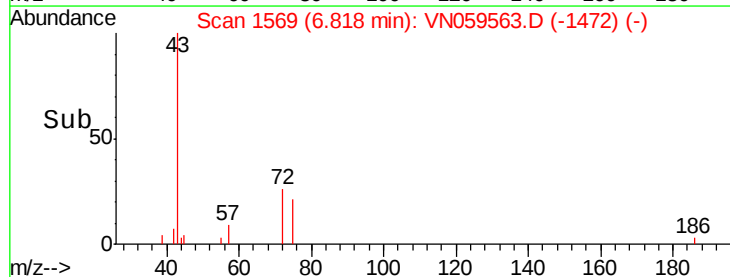
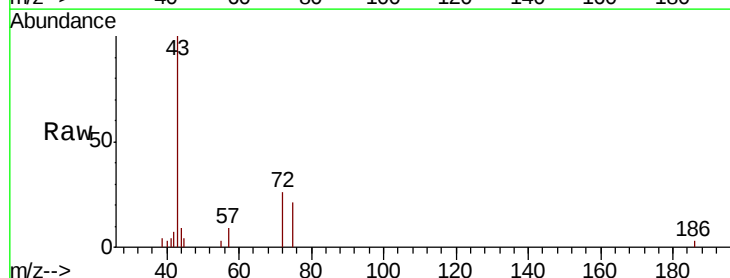
Instrument :
MSVOA_N
ClientSampled :
IBLK

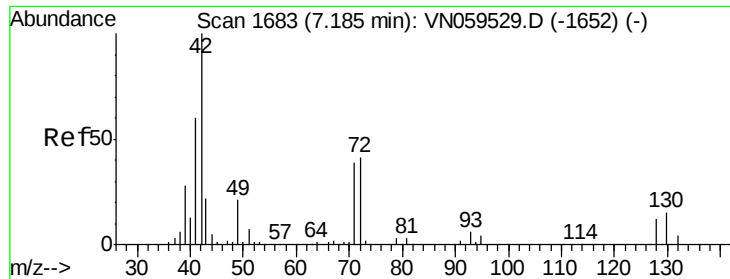
Tot Ion: 84 Resp: 1860
Ion Ratio Lower Upper
84 100
49 104.7 105.8 158.8#
51 36.0 33.7 50.5
86 31.7 51.0 76.4#



#25
2-Butanone
Concen: 8.556 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VN059563.D
Acq: 11 Dec 2019 15:46

Tgt Ion: 43 Resp: 18579
Ion Ratio Lower Upper
43 100
72 26.4 19.9 29.9

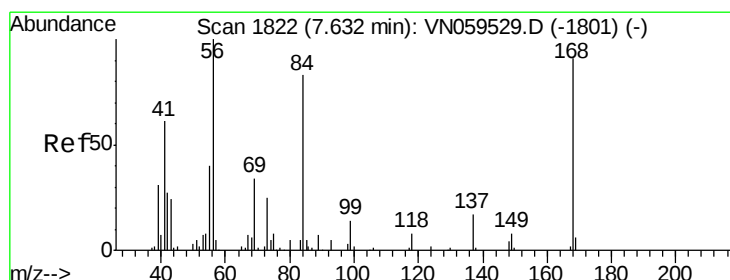
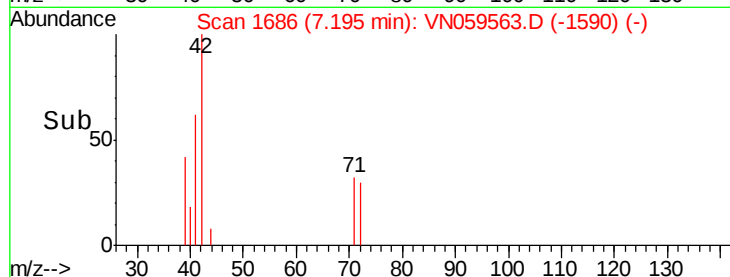
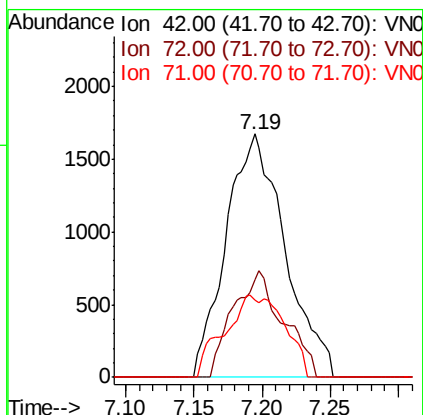
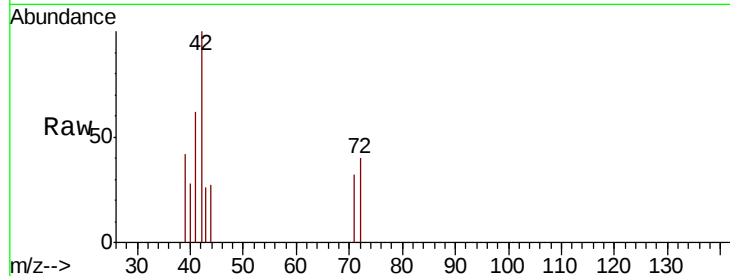




#29
Tetrahydrofuran
Concen: 3.322 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VN059563.D
Acq: 11 Dec 2019 15:46

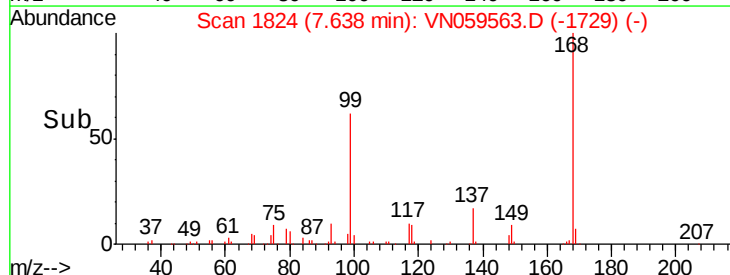
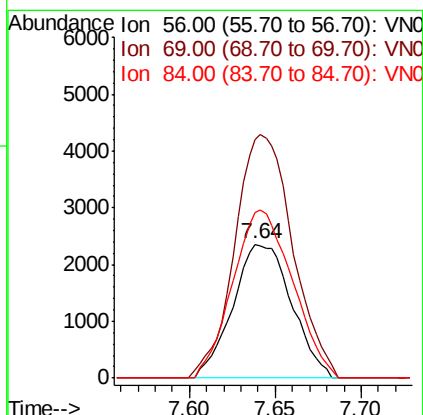
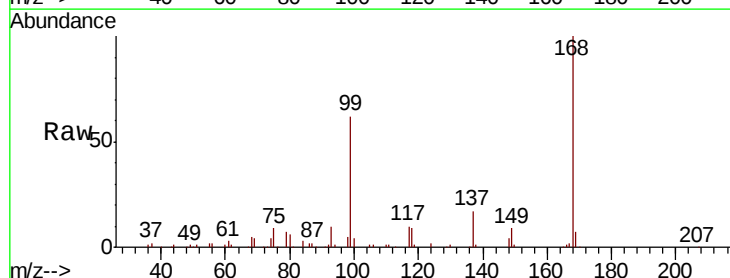
Instrument :
MSVOA_N
ClientSampled :
IBLK

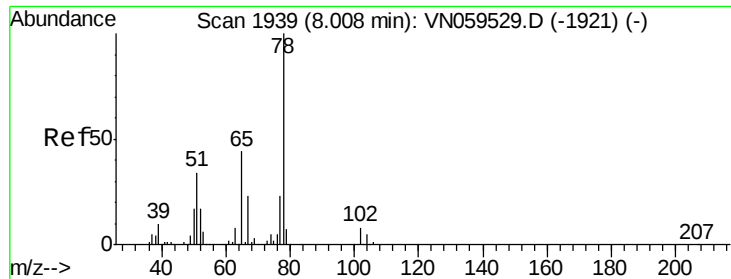
Tot Ion: 42 Resp: 5018
Ion Ratio Lower Upper
42 100
72 37.2 32.7 49.1
71 20.0 31.4 47.2#



#31
Cyclohexane
Concen: 1.074 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059563.D
Acq: 11 Dec 2019 15:46

Tgt Ion: 56 Resp: 5587
Ion Ratio Lower Upper
56 100
69 178.8 26.9 40.3#
84 123.9 66.5 99.7#

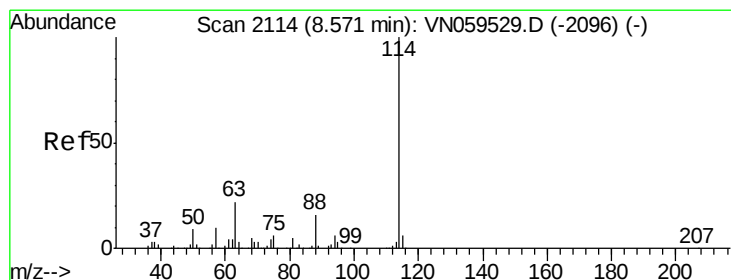
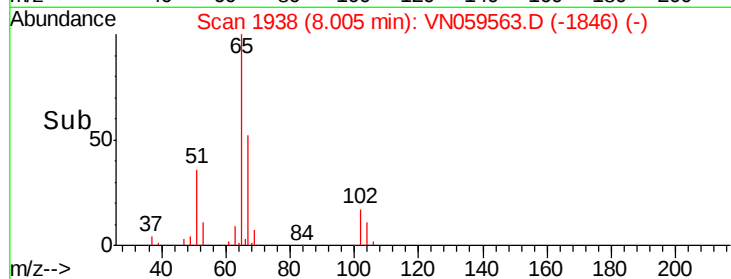
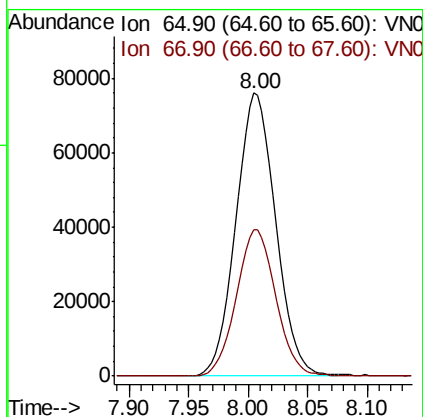
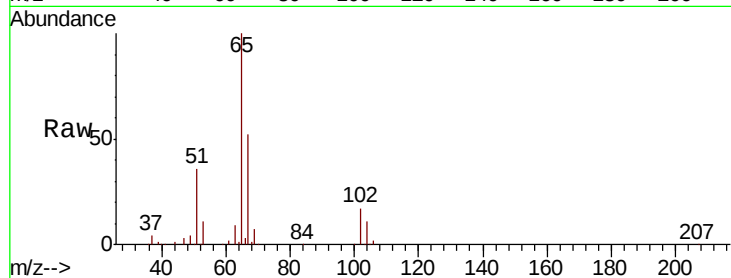




#33
 1,2-Dichloroethane-d4
 Concen: 50.902 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059563.D
 Acq: 11 Dec 2019 15:46

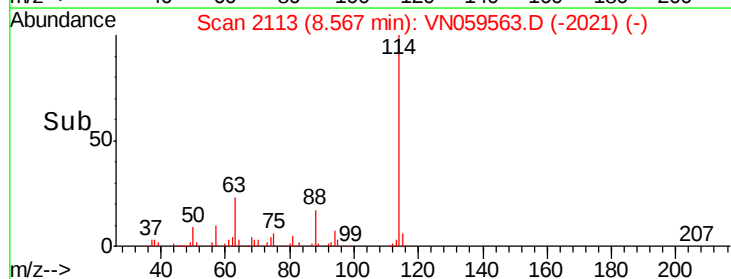
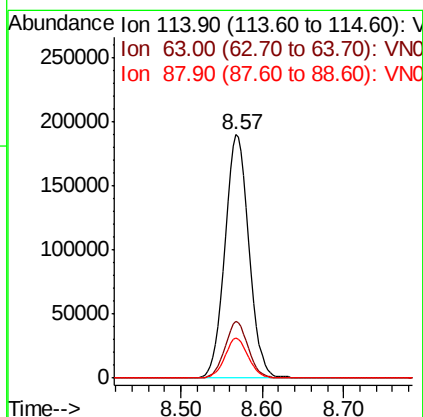
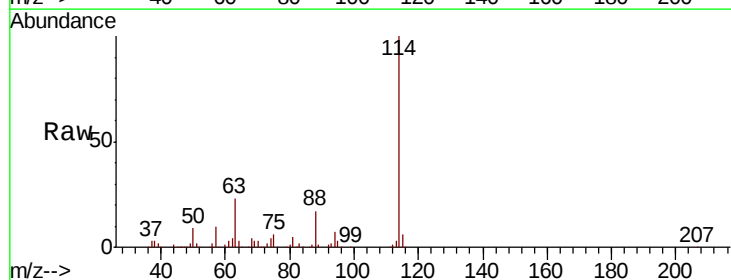
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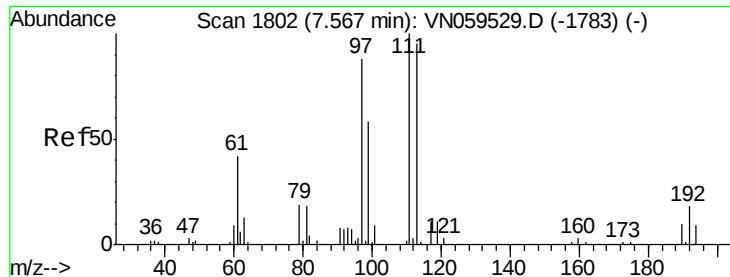
Tot Ion: 65 Resp: 175778
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059563.D
 Acq: 11 Dec 2019 15:46

Tgt Ion: 114 Resp: 395346
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 45.0
 88 16.7 0.0 32.2

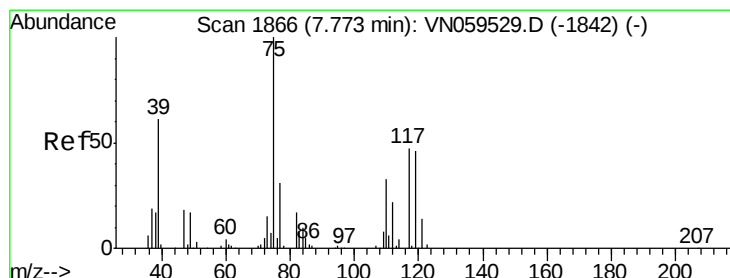
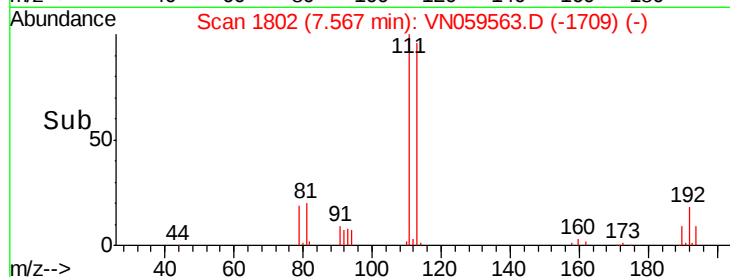
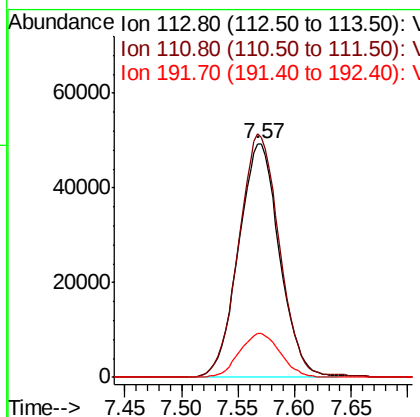
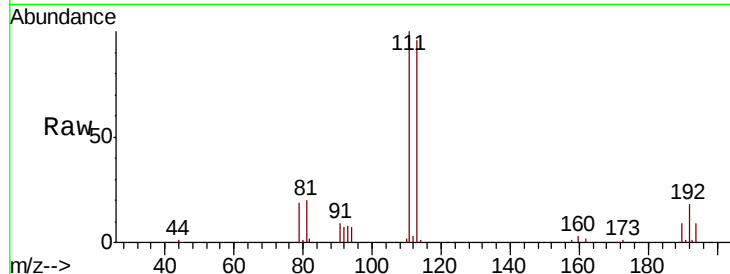




#35
 Dibromofluoromethane
 Concen: 52.647 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059563.D
 Acq: 11 Dec 2019 15:46

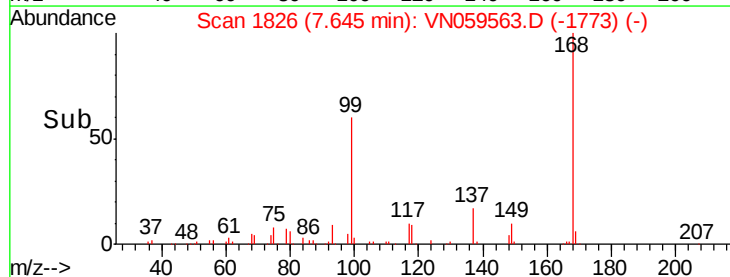
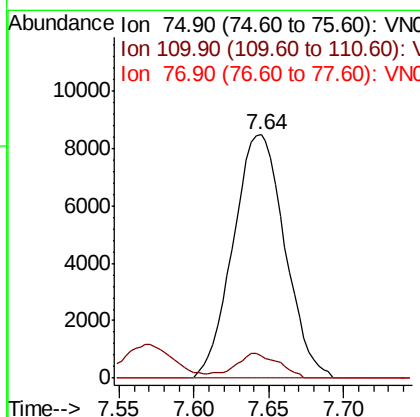
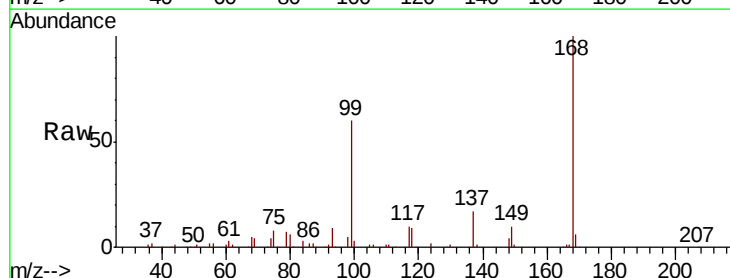
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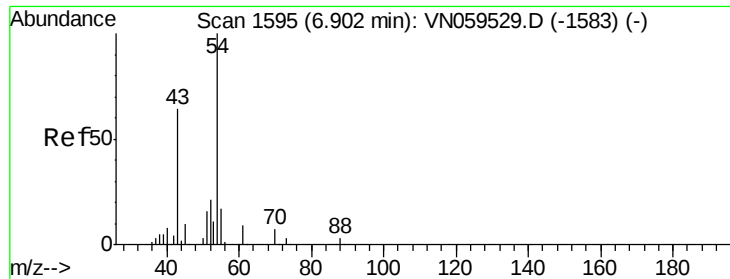
Tot Ion:113 Resp: 124204
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.2 123.4
 192 18.8 14.8 22.2



#36
 1,1-Dichloropropene
 Concen: 5.024 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059563.D
 Acq: 11 Dec 2019 15:46

Tgt Ion: 75 Resp: 20377
 Ion Ratio Lower Upper
 75 100
 110 8.3 16.7 50.0#
 77 0.0 24.6 37.0#

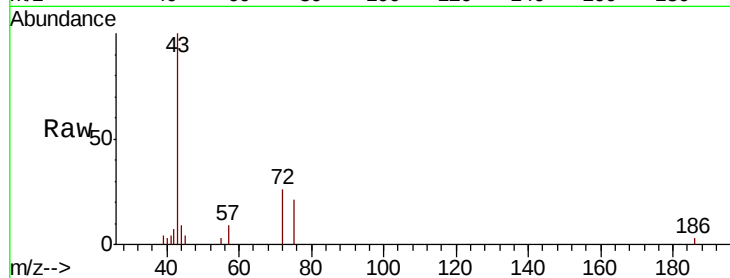




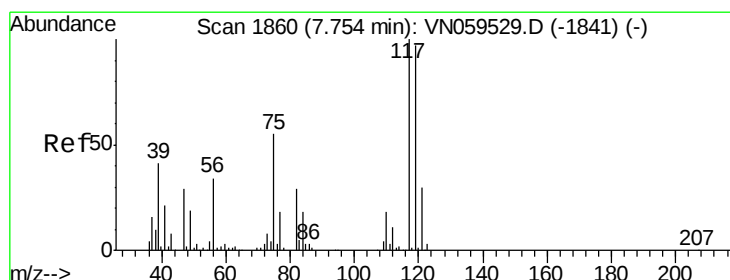
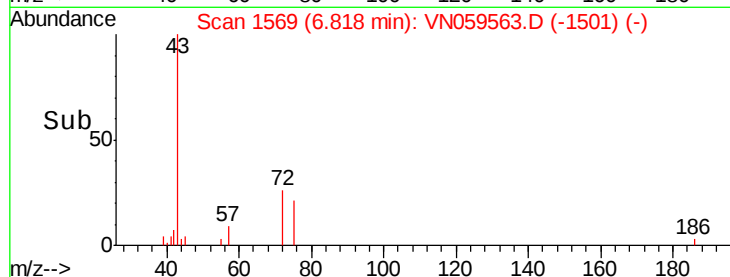
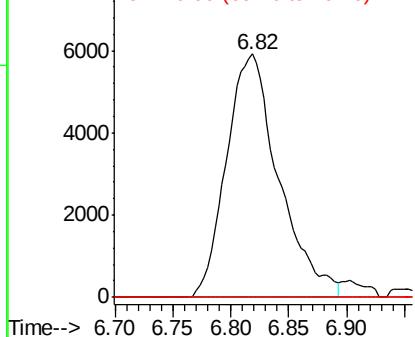
#37
Ethyl Acetate
Concen: 5.345 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. -0.08 min
Lab File: VN059563.D
Acq: 11 Dec 2019 15:46

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tot Ion: 43 Resp: 18579
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.6#
70 0.0 7.7 11.5#

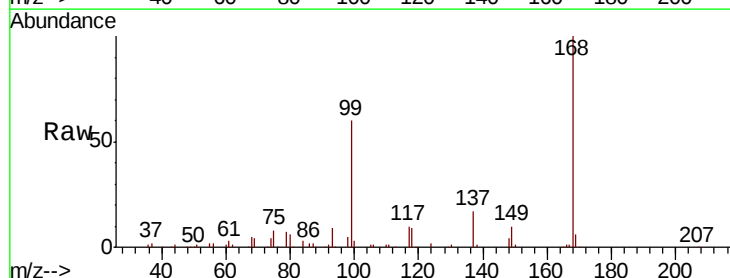


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

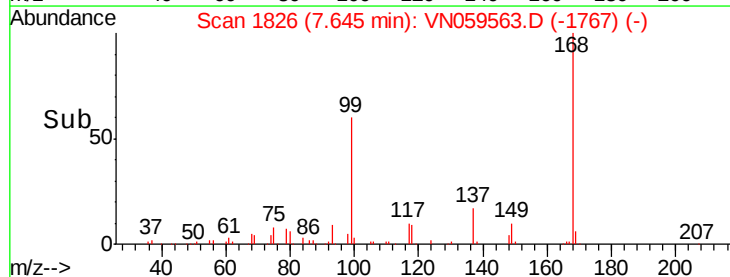
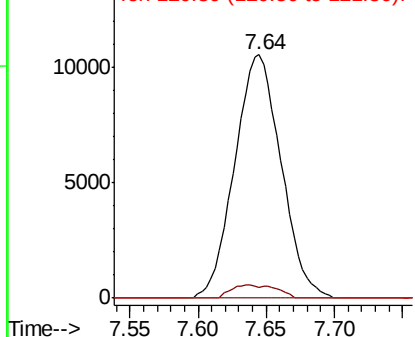


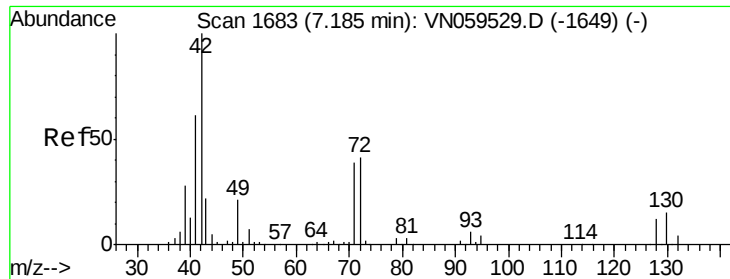
#38
Carbon Tetrachloride
Concen: 6.229 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059563.D
Acq: 11 Dec 2019 15:46

Tgt Ion: 117 Resp: 24904
Ion Ratio Lower Upper
117 100
119 4.4 77.0 115.4#
121 0.0 24.1 36.1#



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

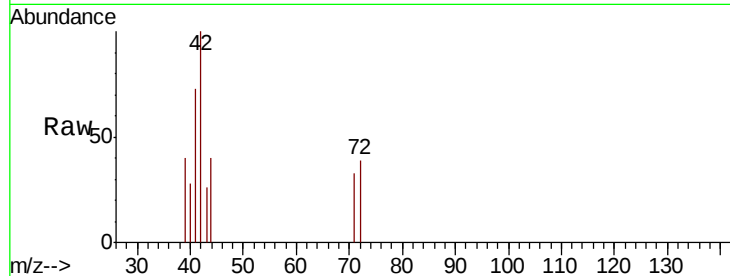




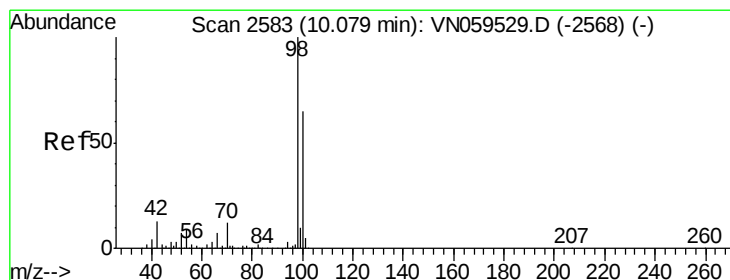
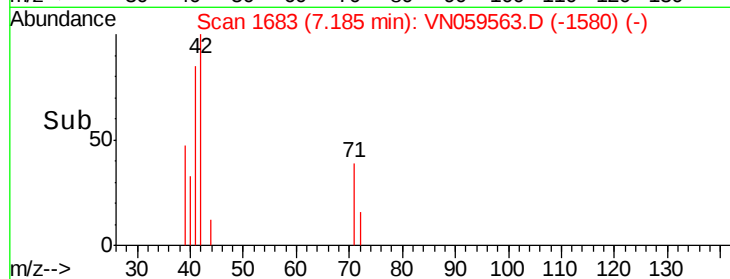
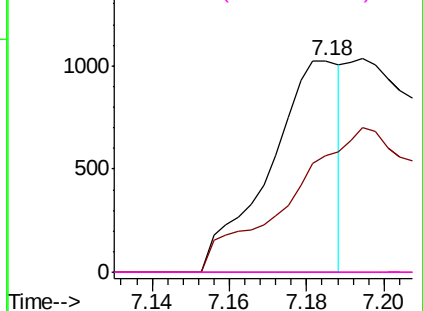
#41
Methacrylonitrile
Concen: 0.659 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.03 min
Lab File: VN059563.D
Acq: 11 Dec 2019 15:46

Instrument :
MSVOA_N
ClientSampled :
IBLK

Tot Ion:	41	Resp:	1299
Ion	Ratio	Lower	Upper
41	100		
39	146.0	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

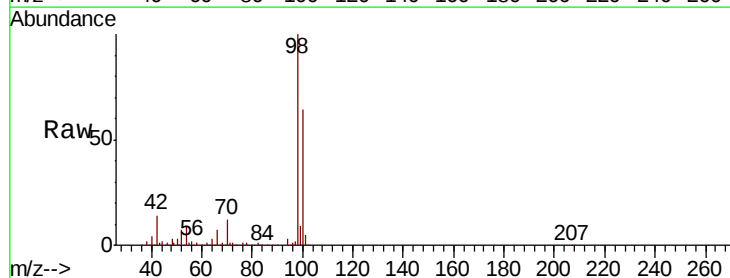


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

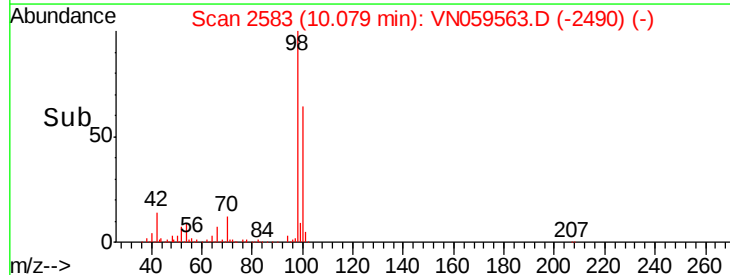
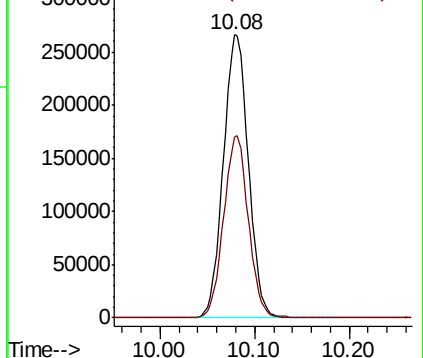


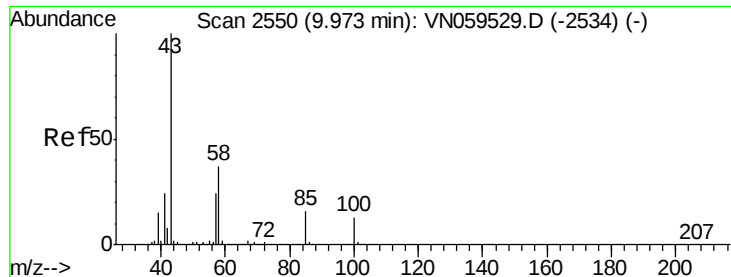
#50
Toluene-d8
Concen: 50.892 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059563.D
Acq: 11 Dec 2019 15:46

Tgt Ion:	98	Resp:	490170
Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.8	77.8



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

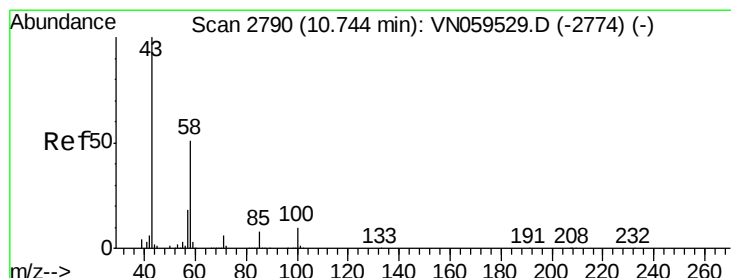
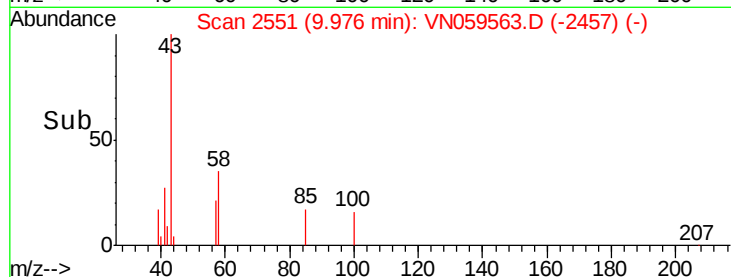
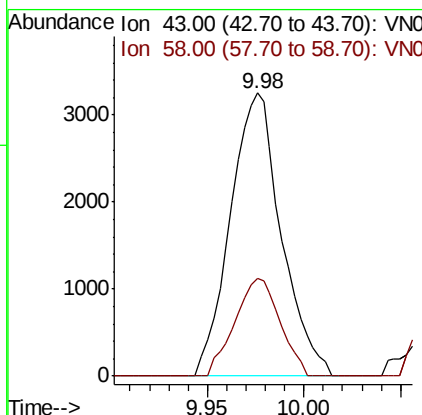
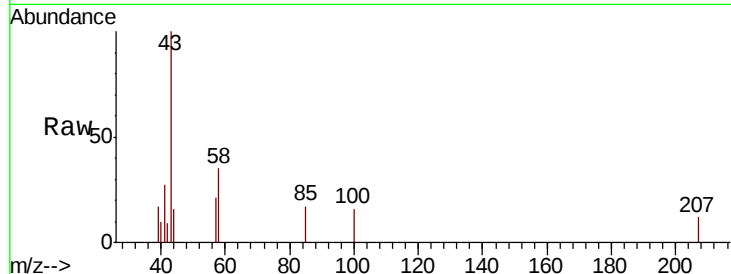




#51
4-Methyl-2-Pentanone
Concen: 0.527 ug/l
RT: 9.98 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VN059563.D
Acq: 11 Dec 2019 15:46

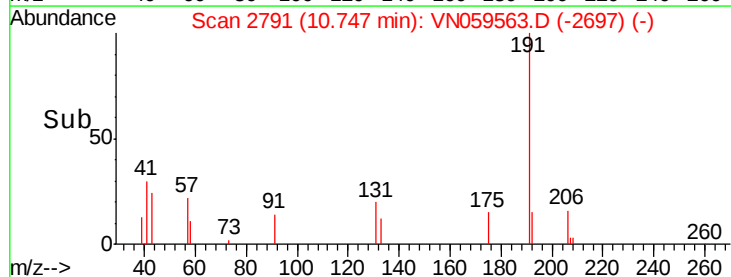
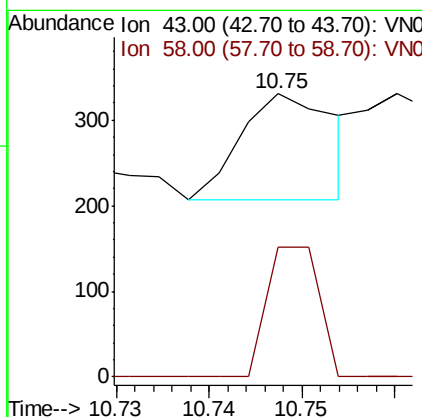
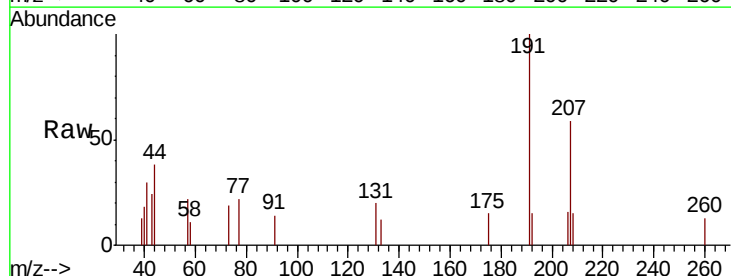
Instrument :
MSVOA_N
ClientSampled :
IBLK

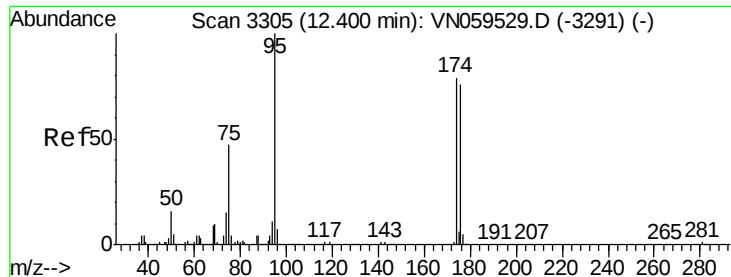
Tot Ion: 43 Resp: 5942
Ion Ratio Lower Upper
43 100
58 30.6 30.1 45.1



#59
2-Hexanone
Concen: 2.240 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059563.D
Acq: 11 Dec 2019 15:46

Tgt Ion: 43 Resp: 87
Ion Ratio Lower Upper
43 100
58 66.7 25.9 77.6





#62

4-Bromofluorobenzene

Concen: 45.494 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN059563.D

Acq: 11 Dec 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

IBLK

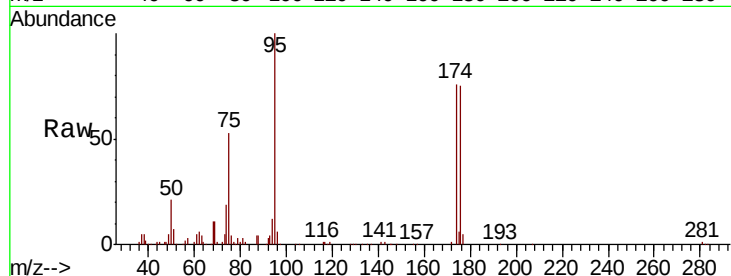
Tot Ion: 95 Resp: 162198

Ion Ratio Lower Upper

95 100

174 76.0 0.0 158.0

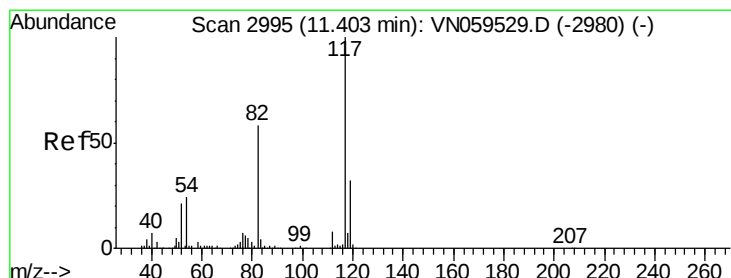
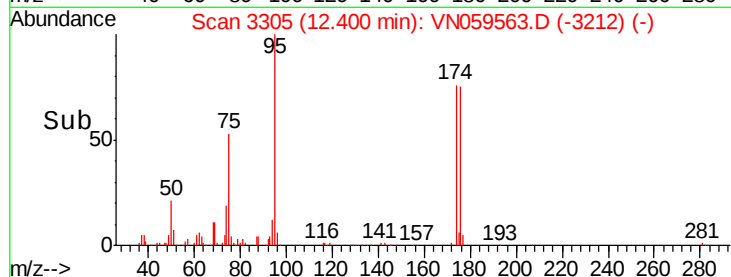
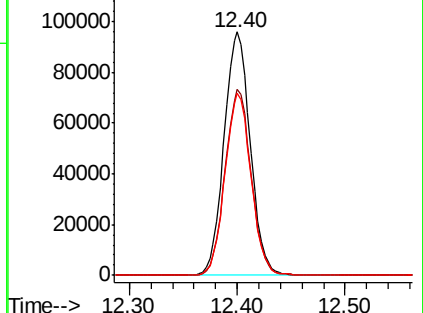
176 74.4 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VN059529.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN059529.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059529.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059563.D

Acq: 11 Dec 2019 15:46

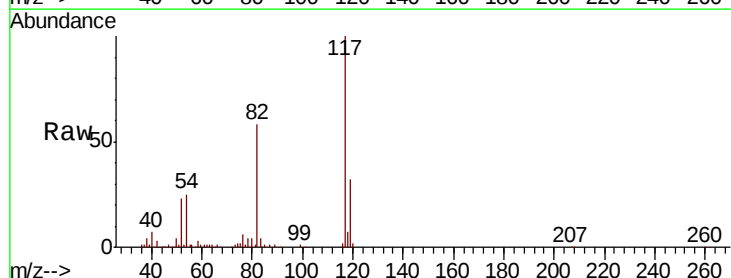
Tgt Ion: 117 Resp: 355953

Ion Ratio Lower Upper

117 100

82 57.7 46.5 69.7

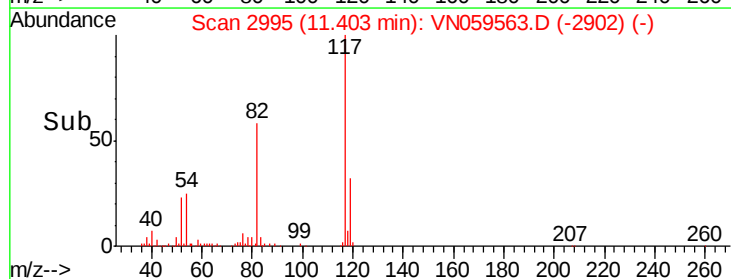
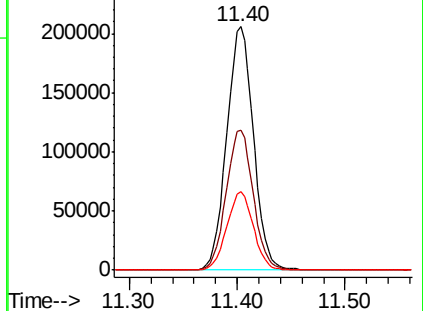
119 32.0 25.2 37.8

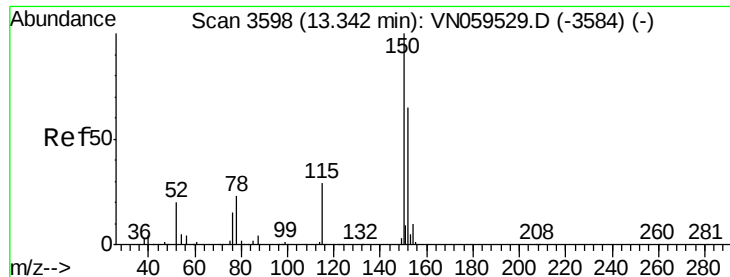


Abundance Ion 116.90 (116.60 to 117.60): VN059529.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN059529.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN059529.D (-2980) (-)



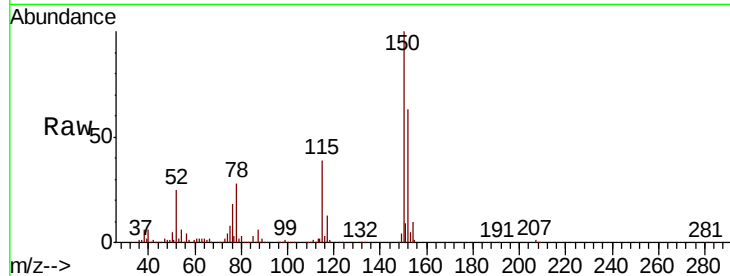


#72

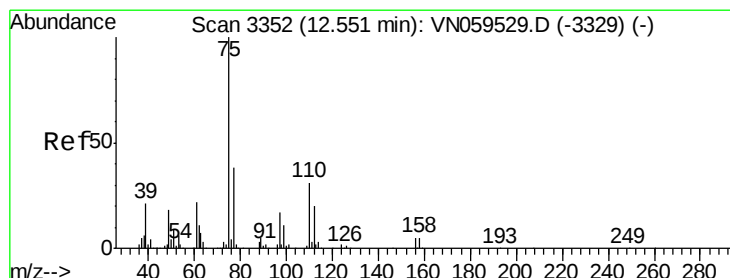
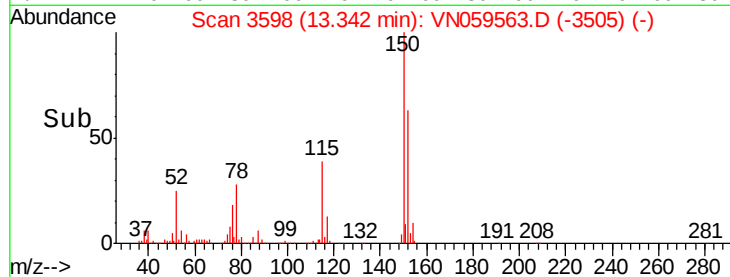
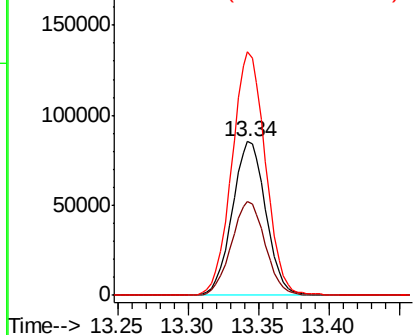
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN059563.D
Acq: 11 Dec 2019 15:46

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tot Ion:152 Resp: 142475
Ion Ratio Lower Upper
152 100
115 61.6 29.4 88.2
150 158.5 0.0 342.4



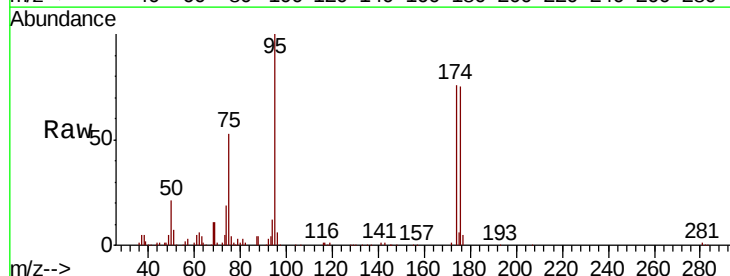
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



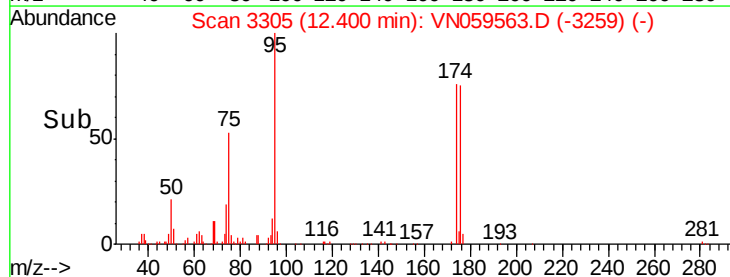
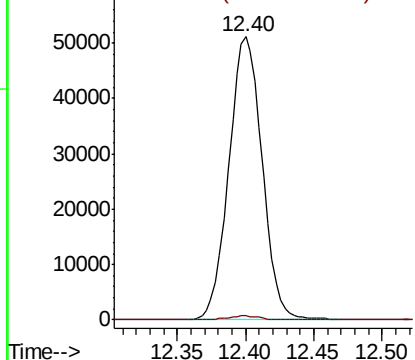
#76

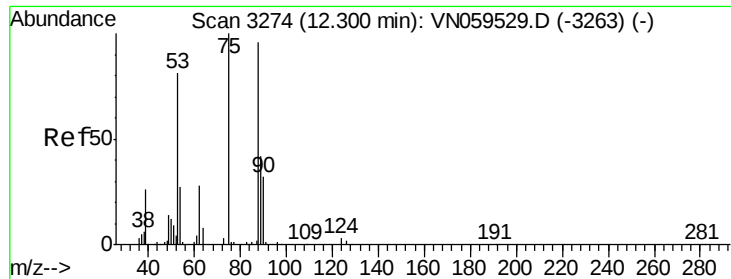
1,2,3-Trichloropropane
Concen: 23.781 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN059563.D
Acq: 11 Dec 2019 15:46

Tgt Ion: 75 Resp: 86644
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 63.982 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059563.D

Acq: 11 Dec 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

IBLK

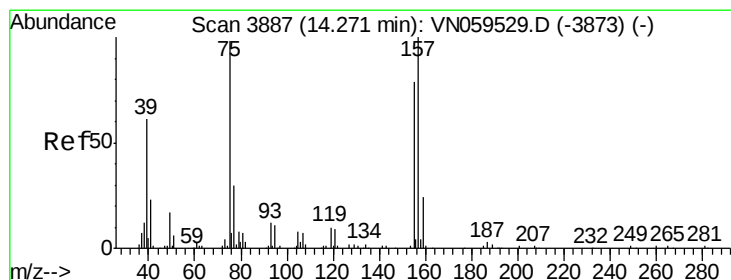
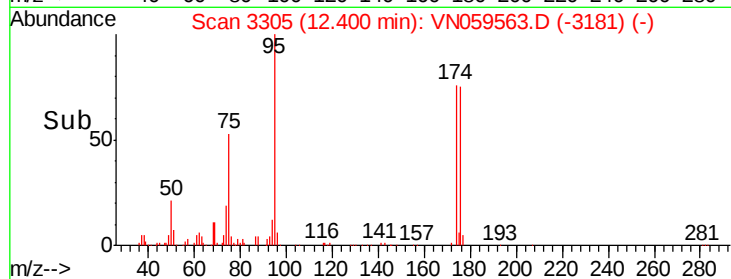
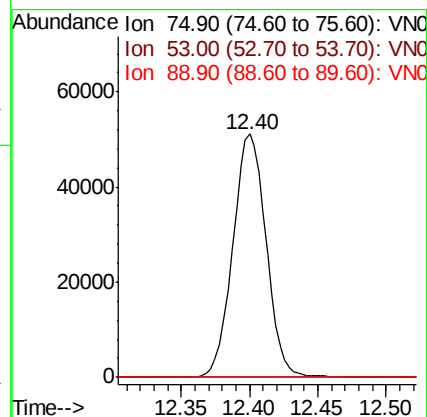
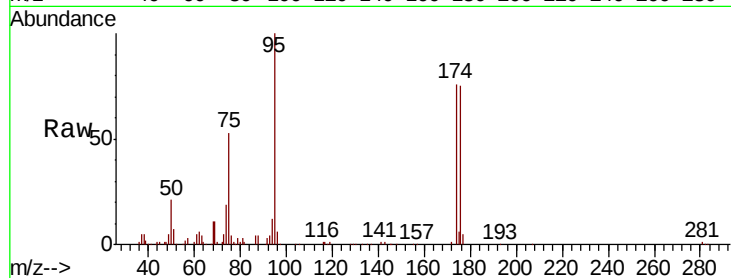
Tot Ion: 75 Resp: 86644

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.6#

89 0.0 35.5 53.3#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.185 ug/l

RT: 14.29 min Scan# 3893

Delta R.T. 0.02 min

Lab File: VN059563.D

Acq: 11 Dec 2019 15:46

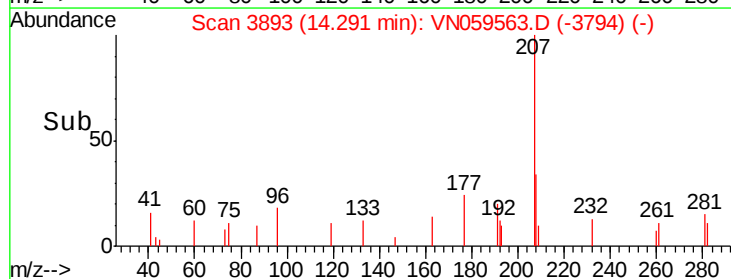
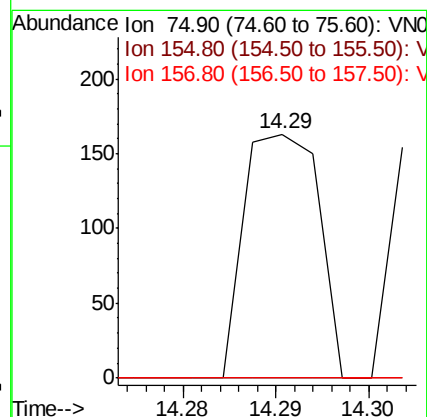
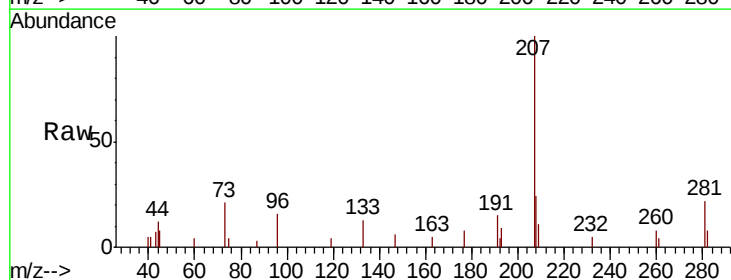
Tgt Ion: 75 Resp: 91

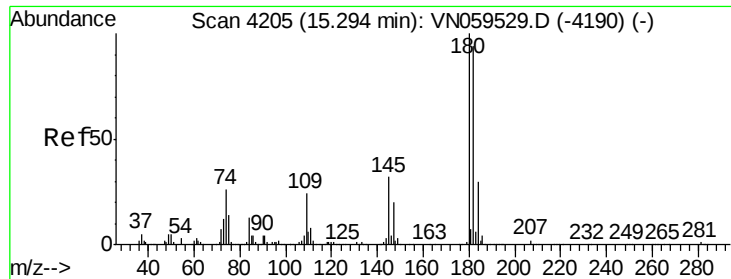
Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.1#

157 0.0 51.1 153.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.428 ug/l
 RT: 15.39 min Scan# 4236
 Delta R.T. 0.10 min
 Lab File: VN059563.D
 Acq: 11 Dec 2019 15:46

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.1	141.4#
145	52.5	15.8	47.4#

