

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\
 Data File : VN055513.D
 Acq On : 9 May 2019 22:44
 Operator : JC/SP
 Sample : K2758-34
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIP-BLANK

Quant Time: May 10 04:19:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 04:17:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	916745	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1515862	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1269181	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	351865	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	610688	44.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.48%	
35) Dibromofluoromethane	7.59	113	473747	48.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.90%	
50) Toluene-d8	10.09	98	1838292	48.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.48%	
62) 4-Bromofluorobenzene	12.40	95	535632	41.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.38%	

Target Compounds

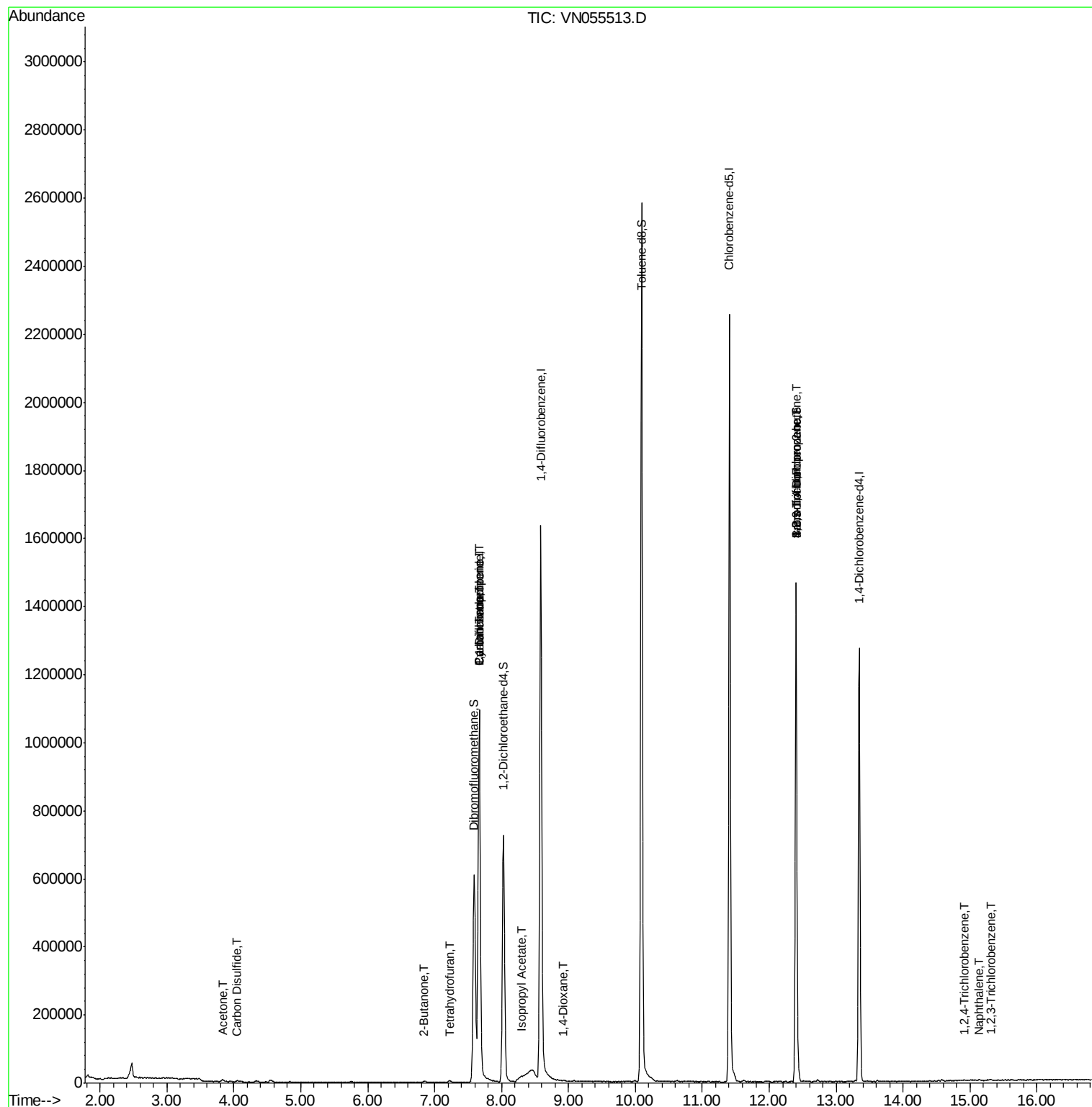
					Qvalue	
16) Acetone	3.83	43	10557	1.652	ug/l	94
17) Carbon Disulfide	4.04	76	5703	0.209	ug/l	97
18) Methyl Acetate	4.33	43	5686	Below Cal	#	86
25) 2-Butanone	6.85	43	2500	0.283	ug/l	92
29) Tetrahydrofuran	7.22	42	3676	0.630	ug/l #	77
31) Cyclohexane	7.66	56	19678	0.883	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	72555	4.858	ug/l #	50
38) Carbon Tetrachloride	7.67	117	87729	6.976	ug/l #	15
43) Isopropyl Acetate	8.30	43	23349	0.943	ug/l #	63
49) 1,4-Dioxane	8.93	88	118	0.508	ug/l #	1
71) Bromoform	12.40	173	3218	0.530	ug/l #	1
73) Isopropylbenzene	12.25	105	729	Below Cal		95
75) 1,1,2,2-Tetrachloroethane	12.52	83	96	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	263599	27.519	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	263599	101.540	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	1127	3.407	ug/l	87
94) Hexachlorobutadiene	15.02	225	649	Below Cal	#	60
95) Naphthalene	15.13	128	2908	3.123	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.32	180	1093	2.607	ug/l	97

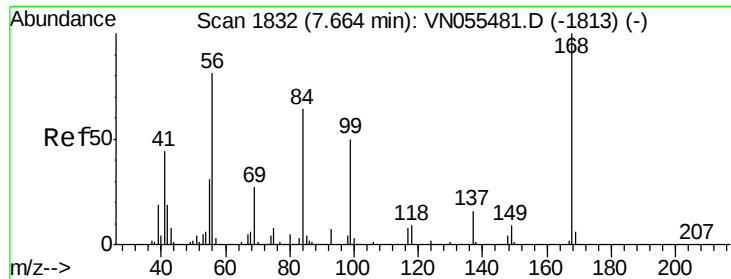
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

Instrument :

MSVOA_N

ClientSampleId :

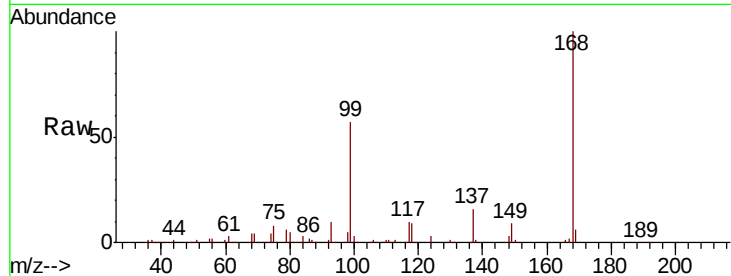
TRIP-BLANK

Tot Ion:168 Resp: 916745

Ion Ratio Lower Upper

168 100

99 57.4 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

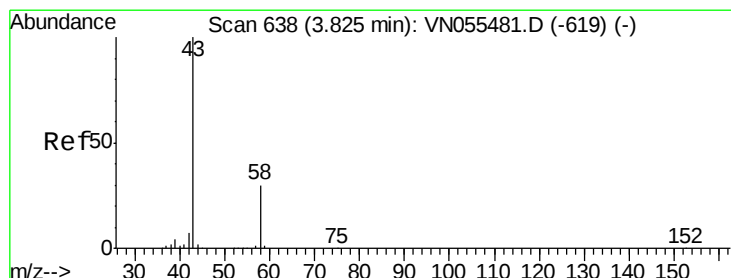
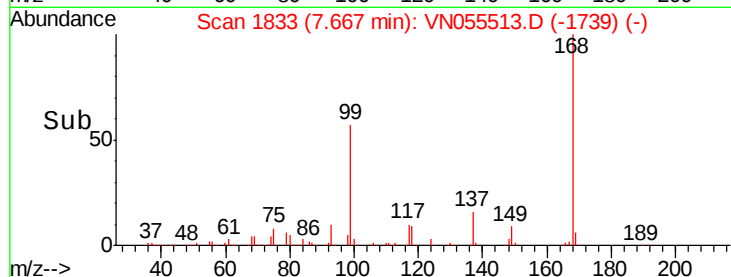
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#16

Acetone

Concen: 1.652 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN055513.D

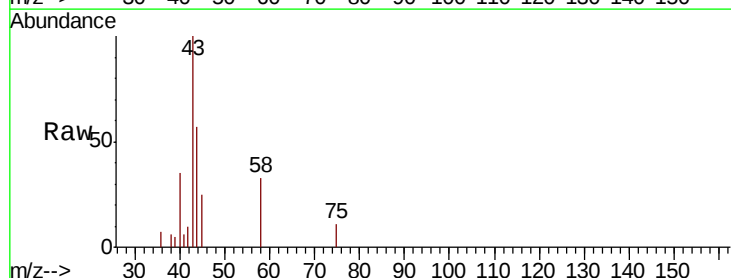
Acq: 9 May 2019 22:44

Tgt Ion: 43 Resp: 10557

Ion Ratio Lower Upper

43 100

58 33.4 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.83

4000

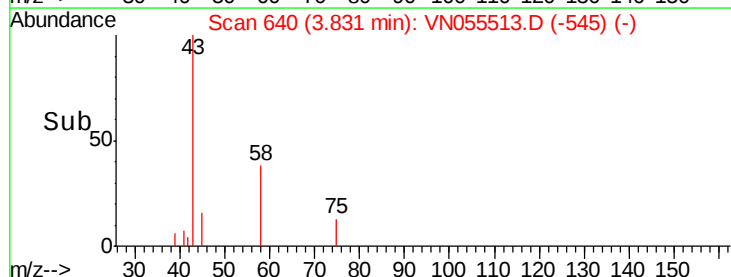
3000

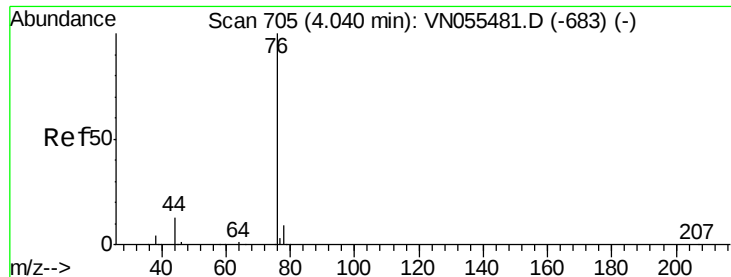
2000

1000

0

Time--> 3.75 3.80 3.85 3.90





#17

Carbon Disulfide

Concen: 0.209 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

Instrument :

MSVOA_N

ClientSampleId :

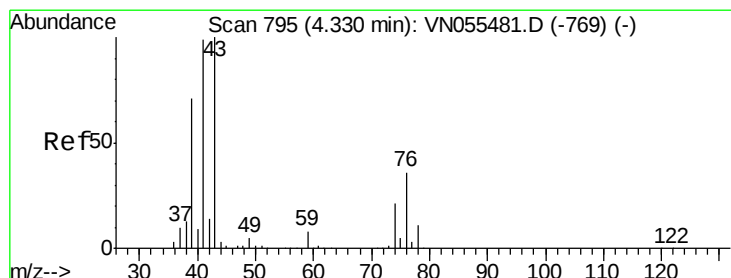
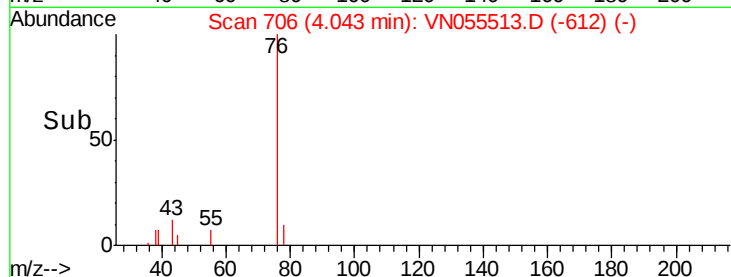
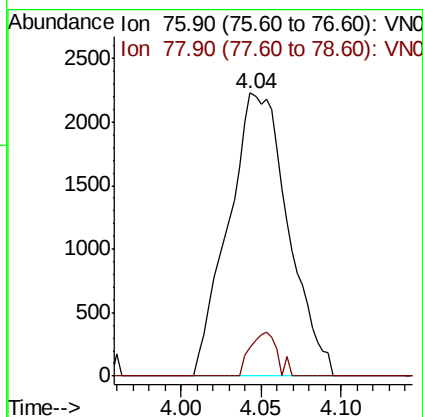
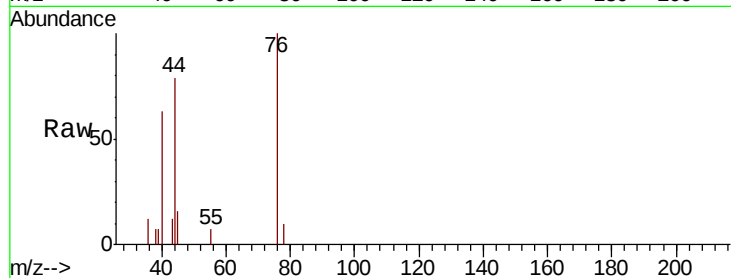
TRIP-BLANK

Tot Ion: 76 Resp: 5703

Ion Ratio Lower Upper

76 100

78 10.1 7.4 11.0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055513.D

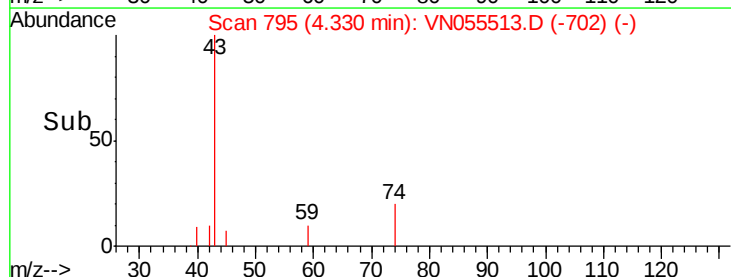
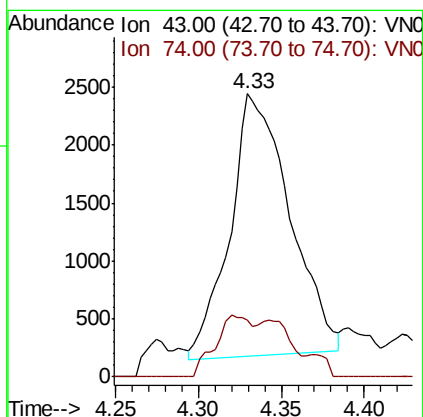
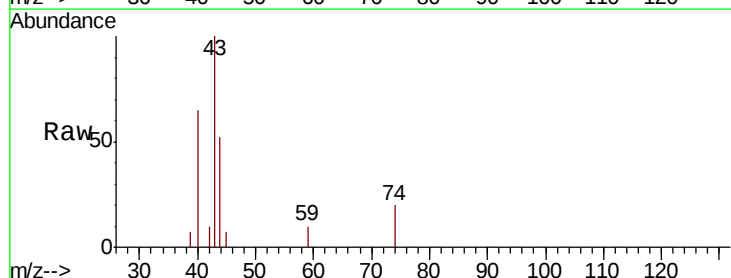
Acq: 9 May 2019 22:44

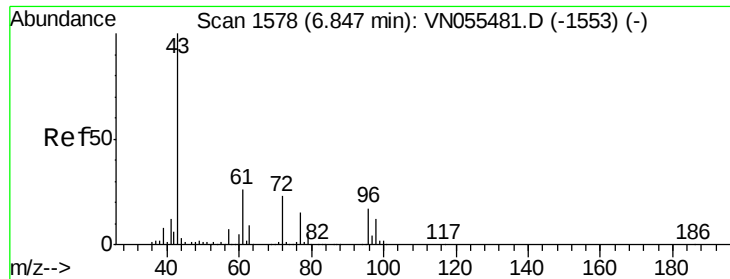
Tgt Ion: 43 Resp: 5686

Ion Ratio Lower Upper

43 100

74 13.9 16.3 24.5#





#25

2-Butanone

Concen: 0.283 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

Instrument :

MSVOA_N

ClientSampled :

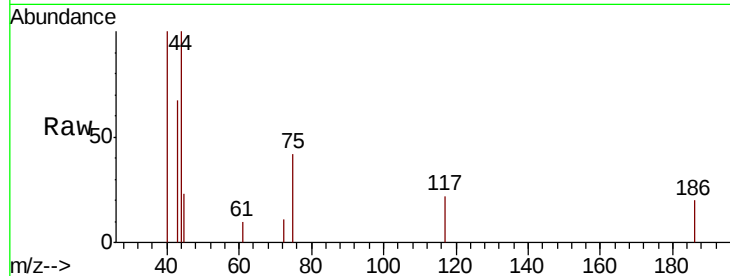
TRIP-BLANK

Tot Ion: 43 Resp: 2500

Ion Ratio Lower Upper

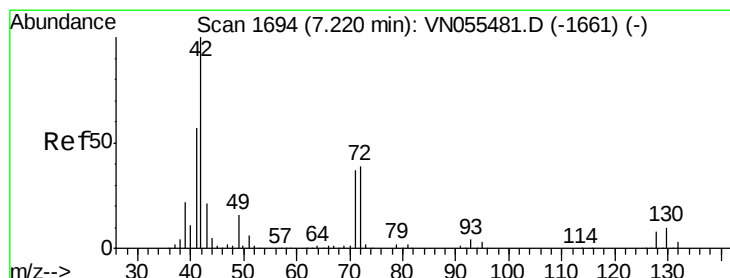
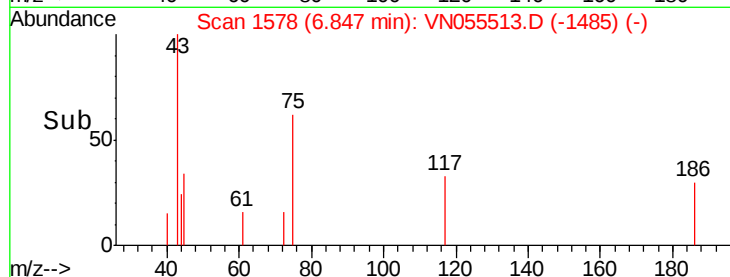
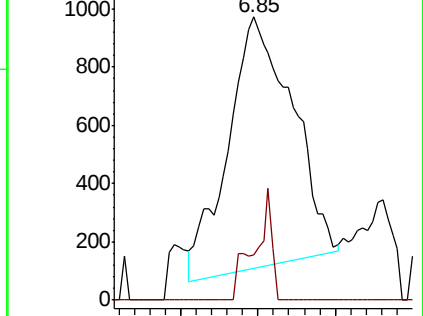
43 100

72 19.5 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO



#29

Tetrahydrofuran

Concen: 0.630 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. -0.00 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

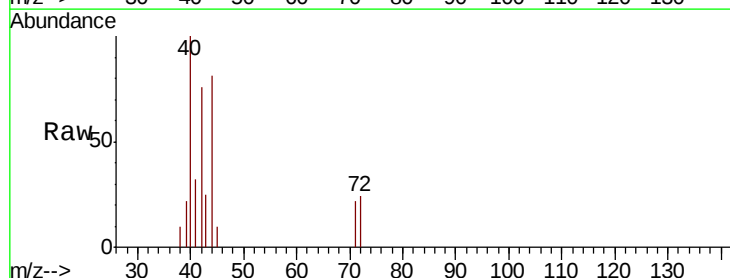
Tgt Ion: 42 Resp: 3676

Ion Ratio Lower Upper

42 100

72 20.9 31.0 46.6#

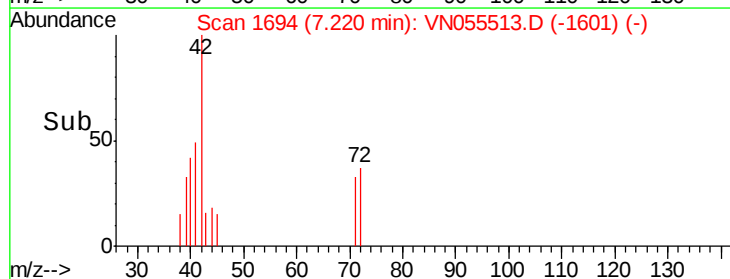
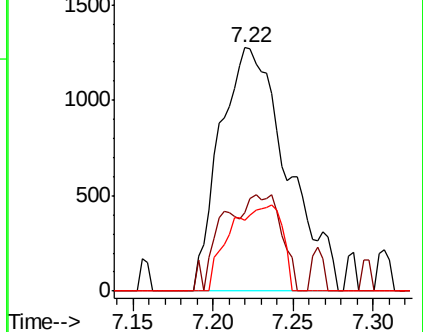
71 27.3 29.4 44.2#

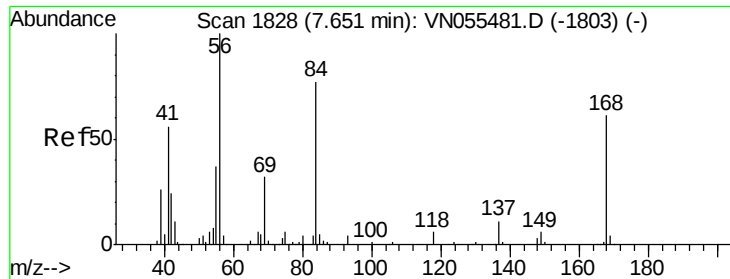


Abundance Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO

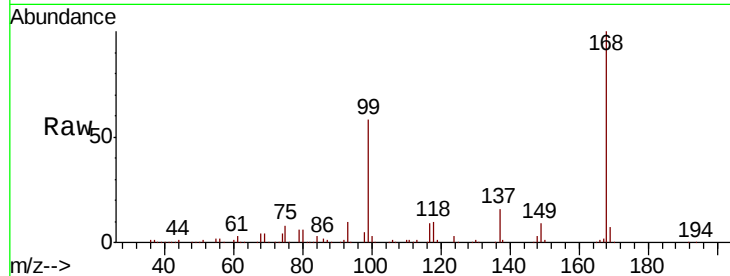




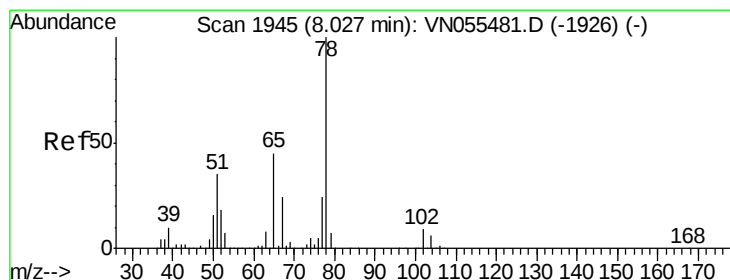
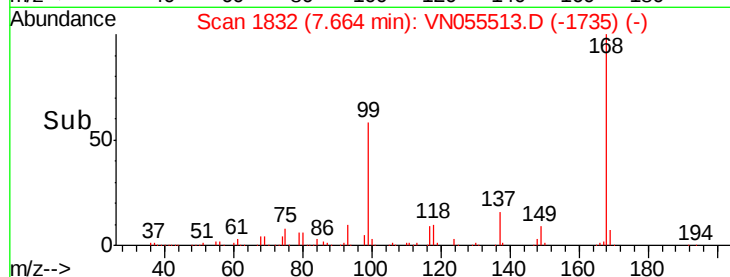
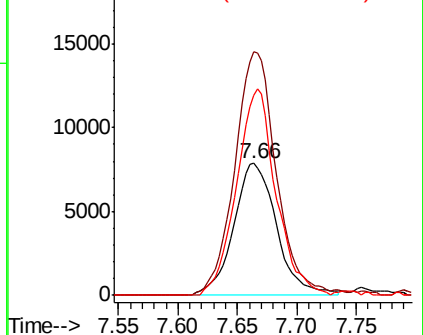
#31
Cyclohexane
Concen: 0.883 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN055513.D
Acq: 9 May 2019 22:44

Instrument :
MSVOA_N
ClientSampleId :
TRIP-BLANK

Tot Ion: 56 Resp: 19678
Ion Ratio Lower Upper
56 100
69 184.5 26.0 39.0#
84 151.3 61.9 92.9#

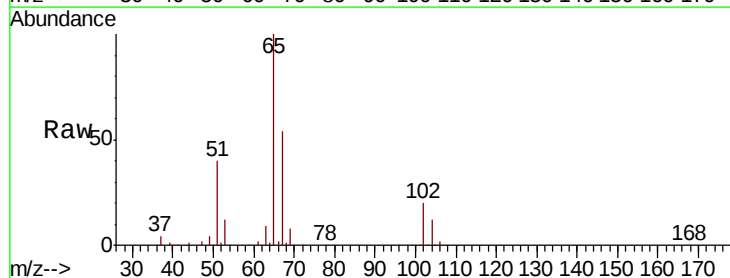


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

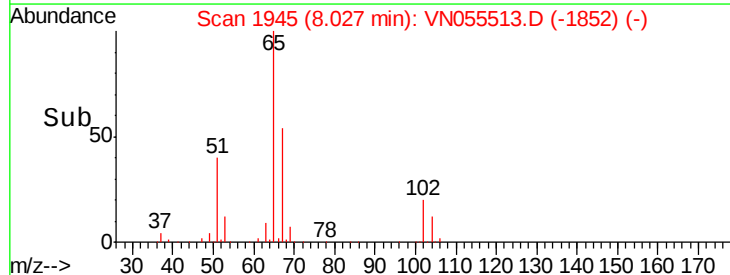
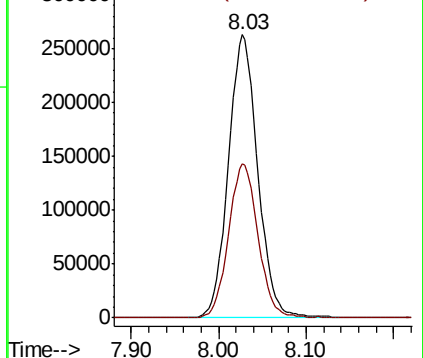


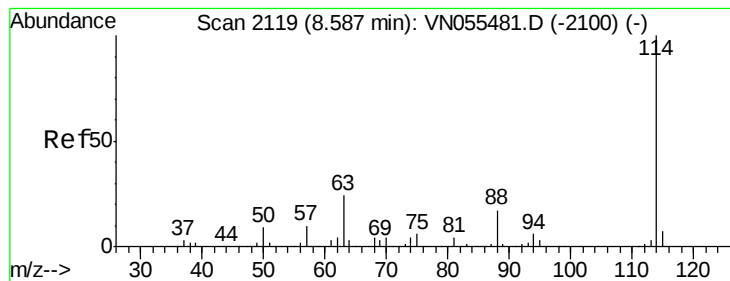
#33
1,2-Dichloroethane-d4
Concen: 44.243 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN055513.D
Acq: 9 May 2019 22:44

Tgt Ion: 65 Resp: 610688
Ion Ratio Lower Upper
65 100
67 54.7 0.0 109.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

Instrument :

MSVOA_N

ClientSampleId :

TRIP-BLANK

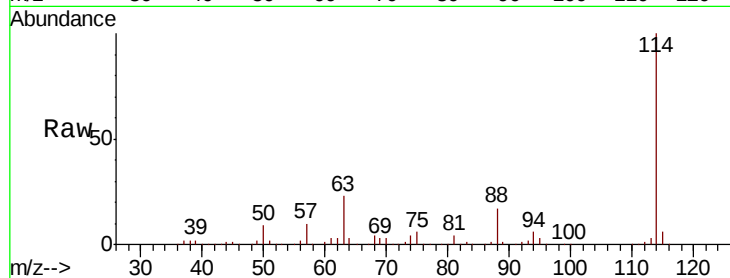
Tot Ion:114 Resp: 1515862

Ion Ratio Lower Upper

114 100

63 23.0 0.0 47.4

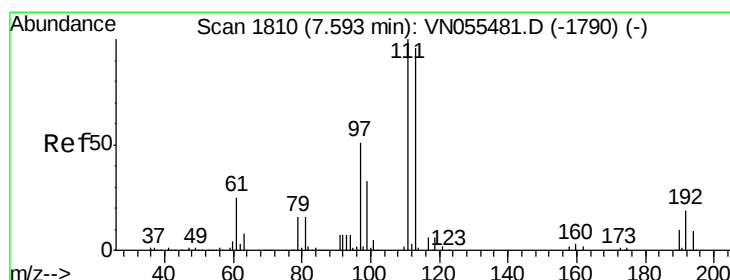
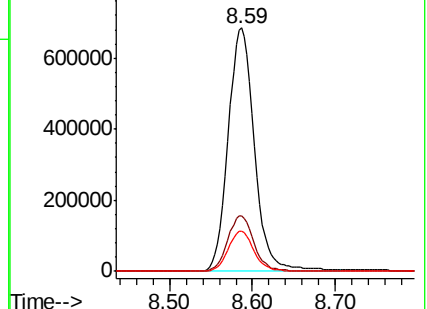
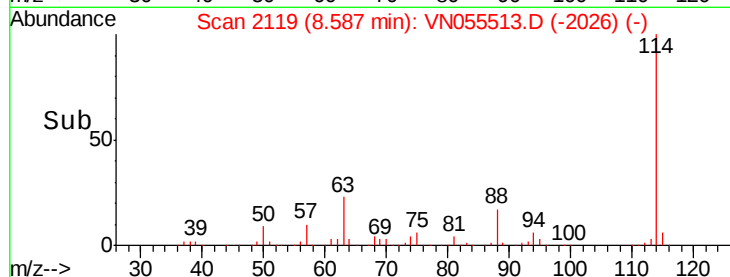
88 16.6 0.0 34.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.448 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

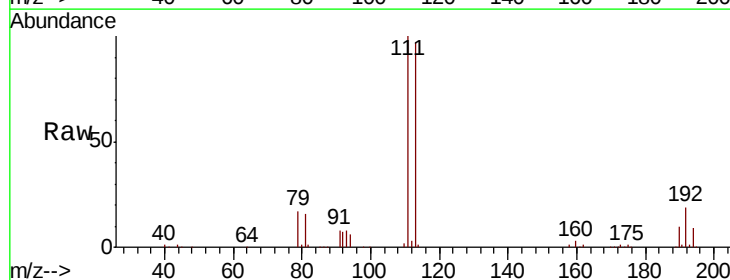
Tgt Ion:113 Resp: 473747

Ion Ratio Lower Upper

113 100

111 102.4 82.9 124.3

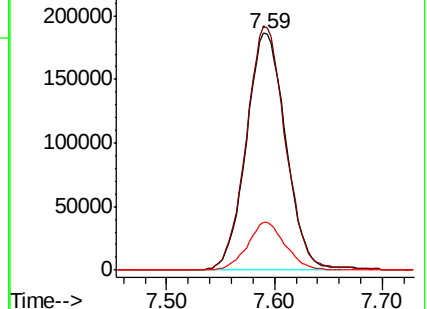
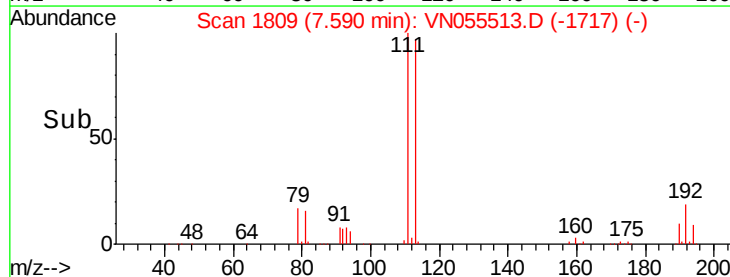
192 19.3 15.6 23.4

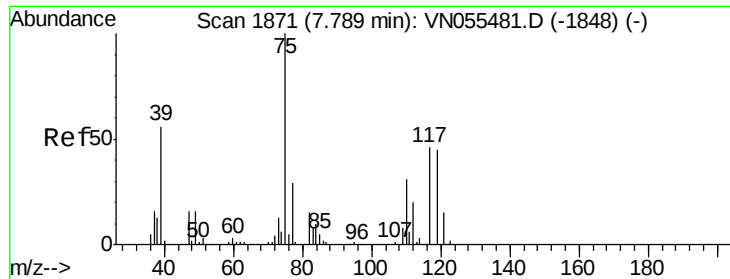


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.858 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

Instrument :

MSVOA_N

ClientSampleId :

TRIP-BLANK

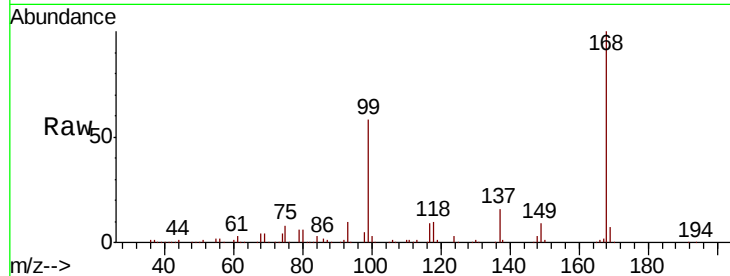
Tot Ion: 75 Resp: 72555

Ion Ratio Lower Upper

75 100

110 7.9 16.1 48.3#

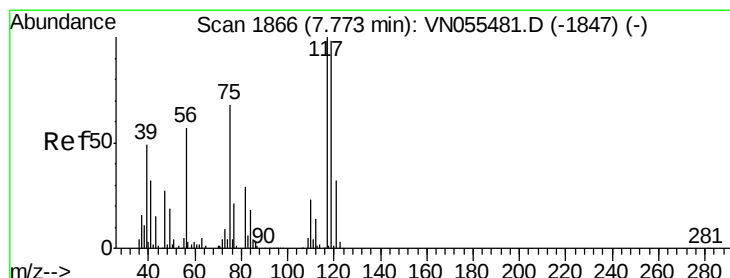
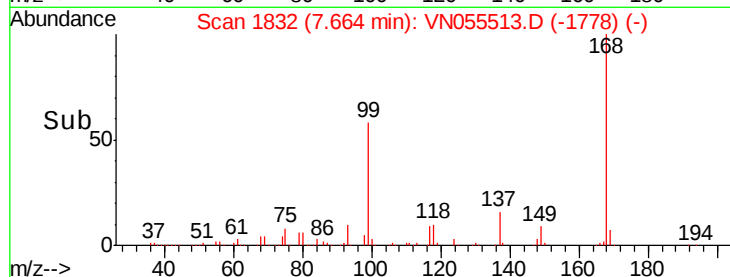
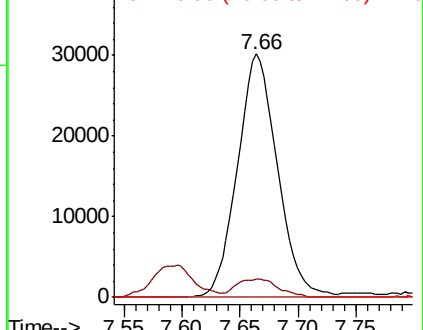
77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 6.976 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

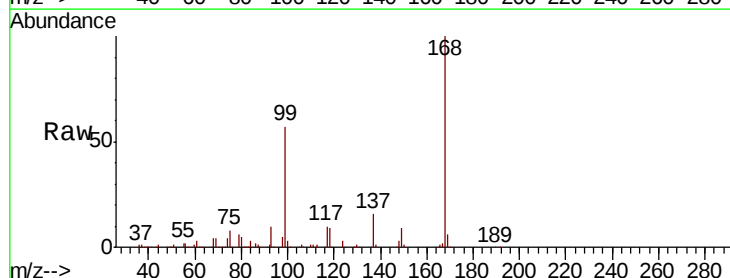
Tgt Ion: 117 Resp: 87729

Ion Ratio Lower Upper

117 100

119 5.2 77.8 116.6#

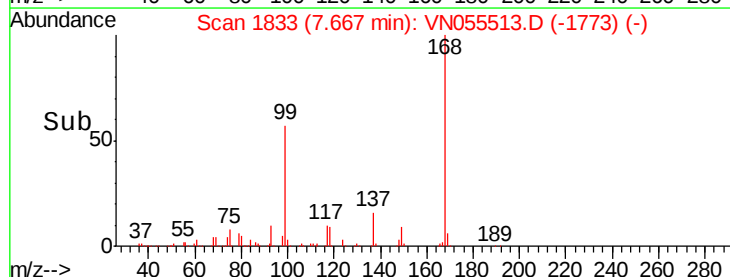
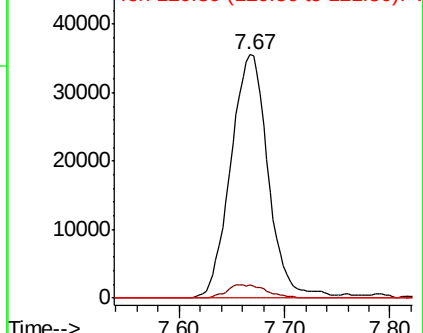
121 0.0 25.2 37.8#

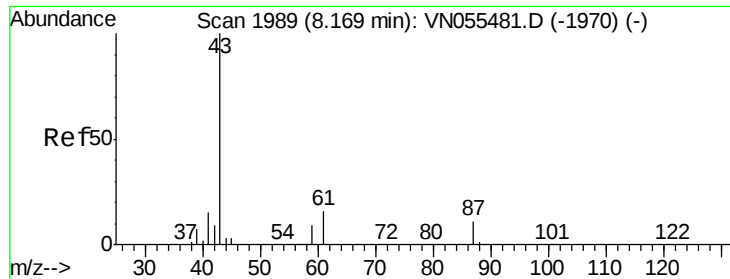


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 0.943 ug/l

RT: 8.30 min Scan# 2030

Delta R.T. 0.13 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

Instrument :

MSVOA_N

ClientSampleId :

TRIP-BLANK

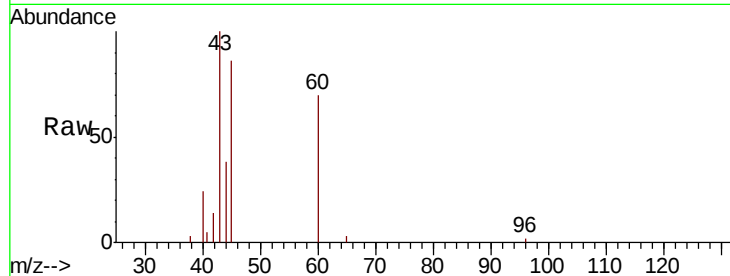
Tot Ion: 43 Resp: 23349

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

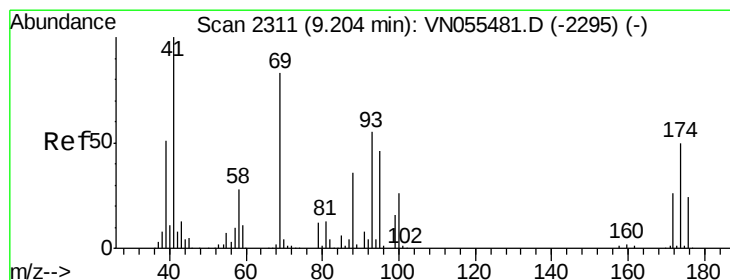
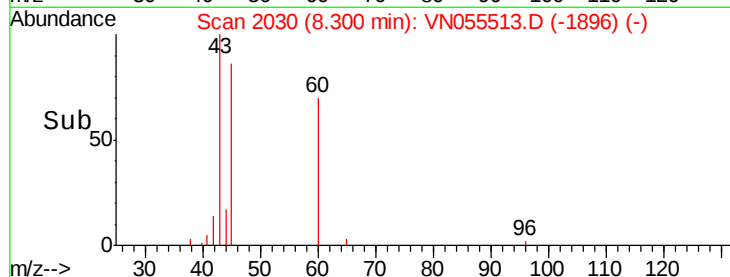
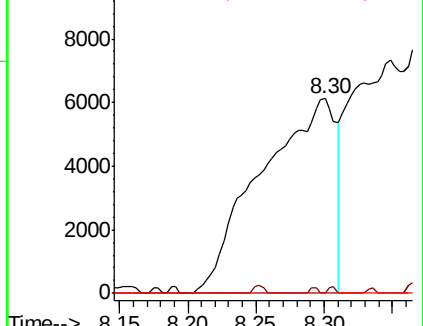
87 0.0 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#49

1,4-Dioxane

Concen: 0.508 ug/l

RT: 8.93 min Scan# 2226

Delta R.T. -0.27 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

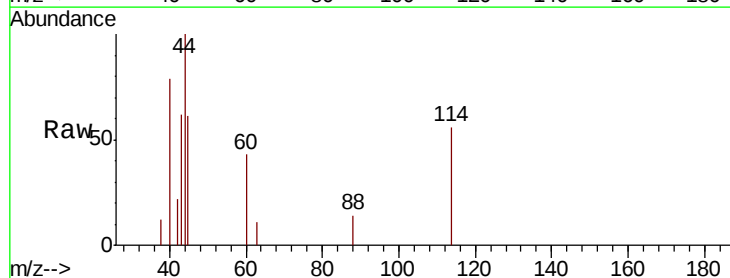
Tgt Ion: 88 Resp: 118

Ion Ratio Lower Upper

88 100

43 223.7 27.8 41.8#

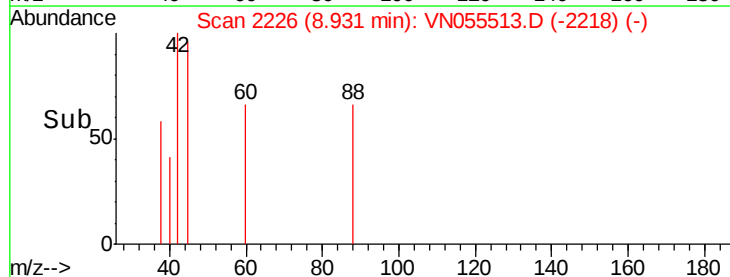
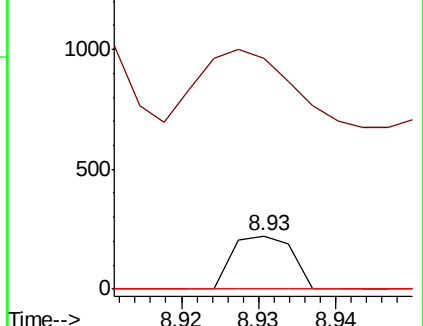
58 0.0 61.8 92.6#

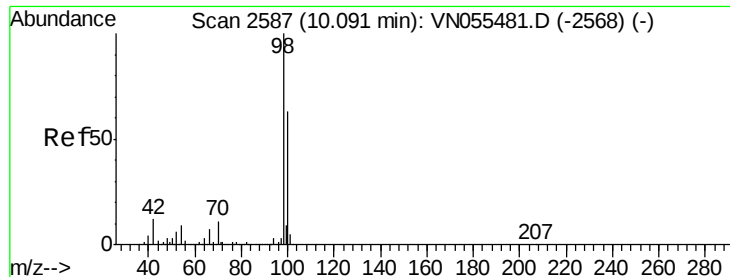


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 48.242 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

Instrument :

MSVOA_N

ClientSampled :

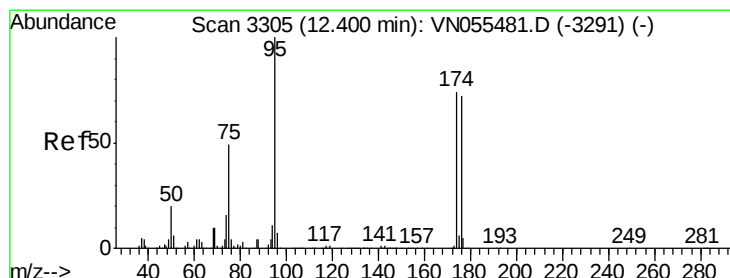
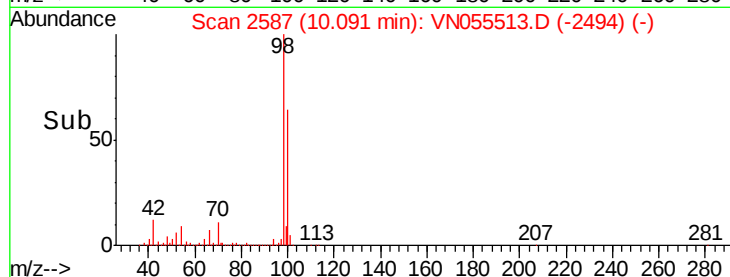
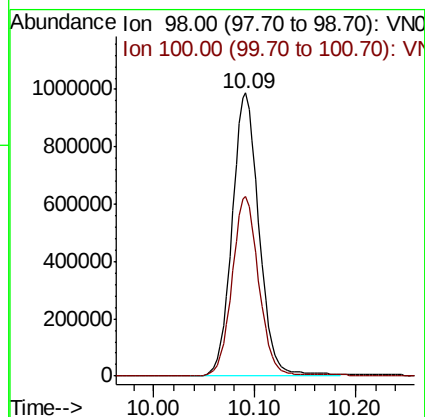
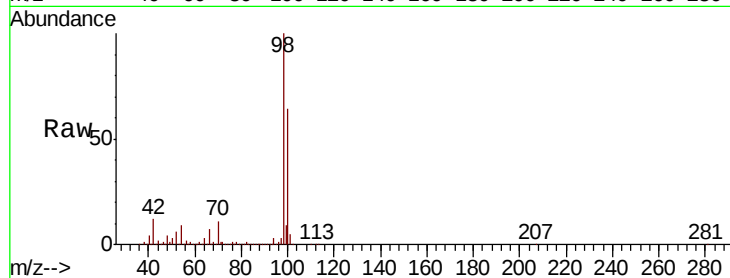
TRIP-BLANK

Tot Ion: 98 Resp: 1838292

Ion Ratio Lower Upper

98 100

100 63.7 50.4 75.6



#62

4-Bromofluorobenzene

Concen: 41.687 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

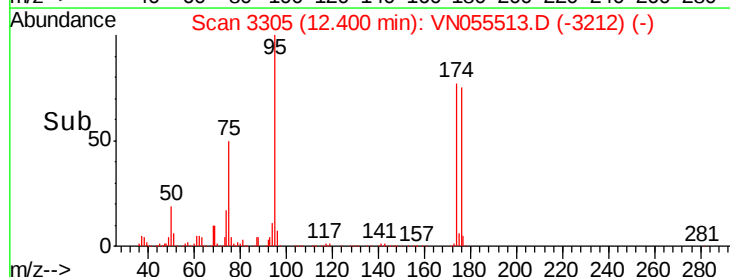
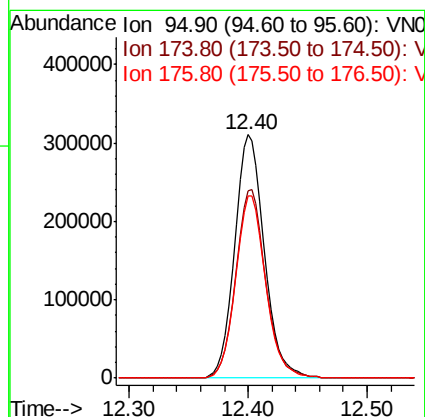
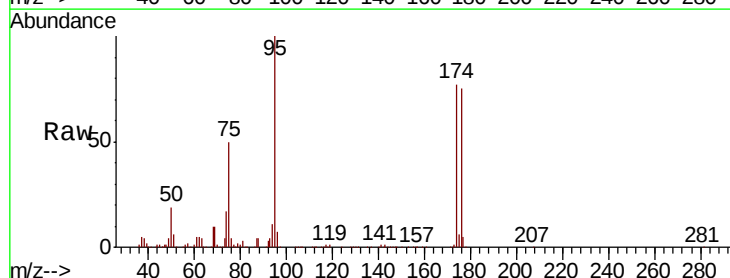
Tgt Ion: 95 Resp: 535632

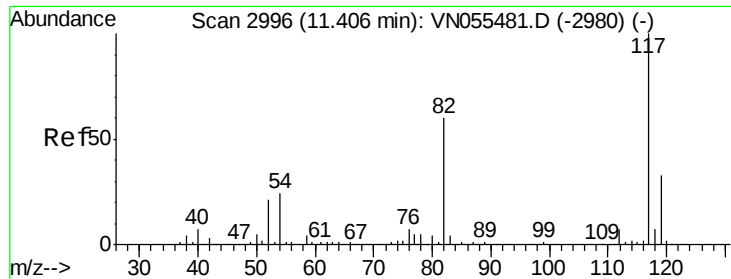
Ion Ratio Lower Upper

95 100

174 78.1 0.0 152.2

176 75.9 0.0 147.8

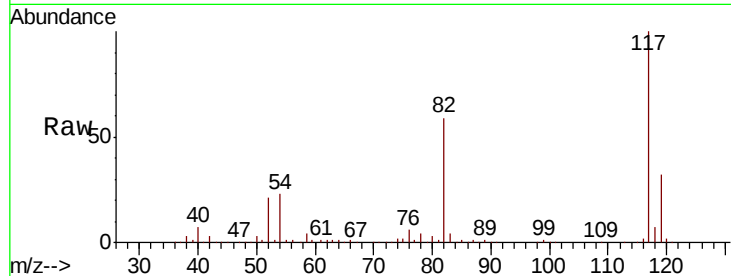




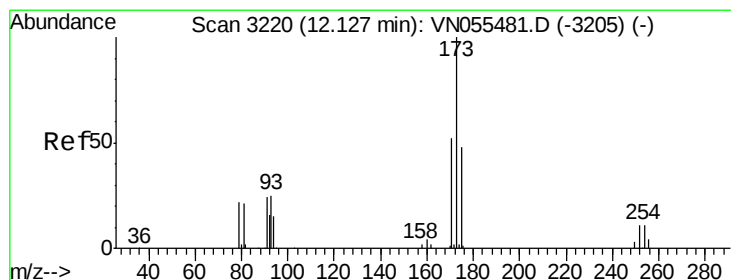
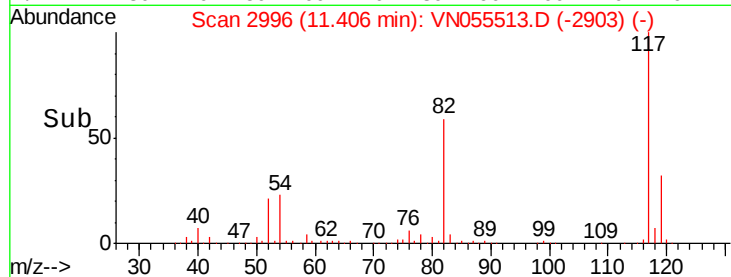
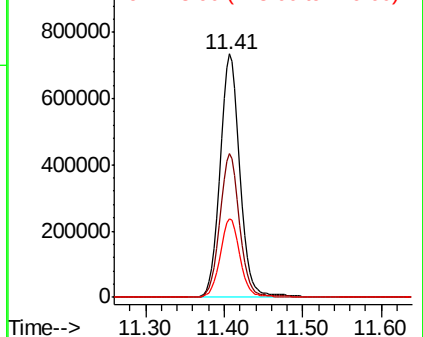
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055513.D
Acq: 9 May 2019 22:44

Instrument :
MSVOA_N
ClientSampleId :
TRIP-BLANK

Tot Ion:117 Resp: 1269181
Ion Ratio Lower Upper
117 100
82 58.9 48.0 72.0
119 32.4 26.0 39.0

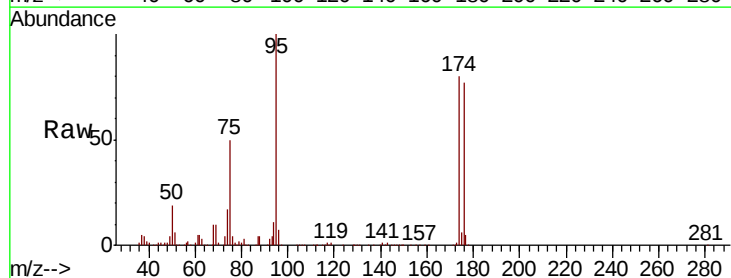


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

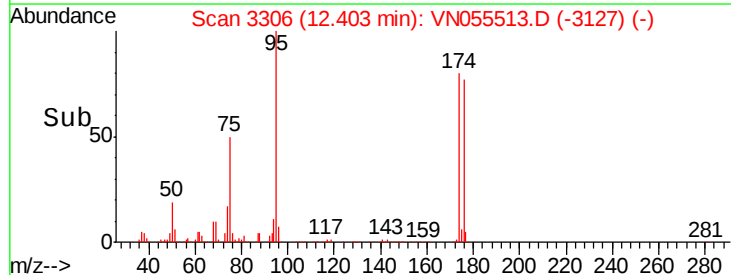
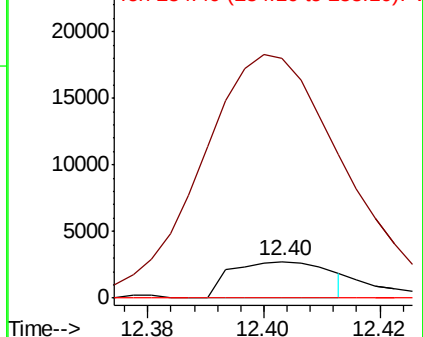


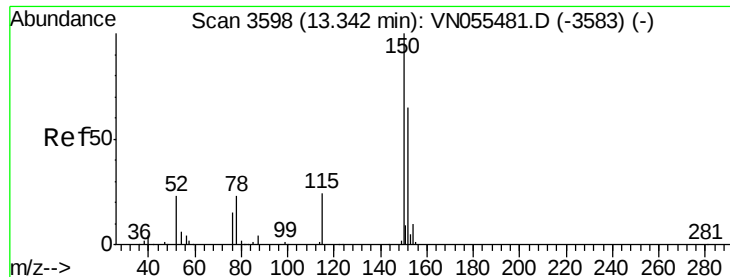
#71
Bromoform
Concen: 0.530 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055513.D
Acq: 9 May 2019 22:44

Tgt Ion:173 Resp: 3218
Ion Ratio Lower Upper
173 100
175 837.2 24.1 72.4#
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# 3599

Delta R.T. 0.00 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

Instrument :

MSVOA_N

ClientSampleId :

TRIP-BLANK

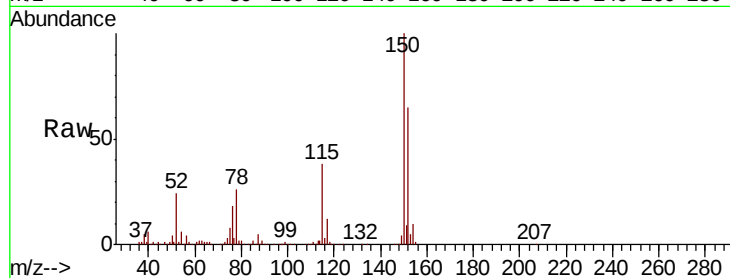
Tot Ion:152 Resp: 351865

Ion Ratio Lower Upper

152 100

115 59.3 30.1 90.5

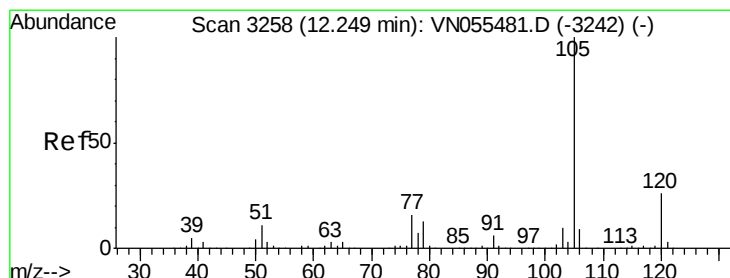
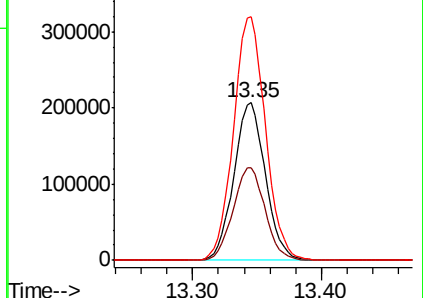
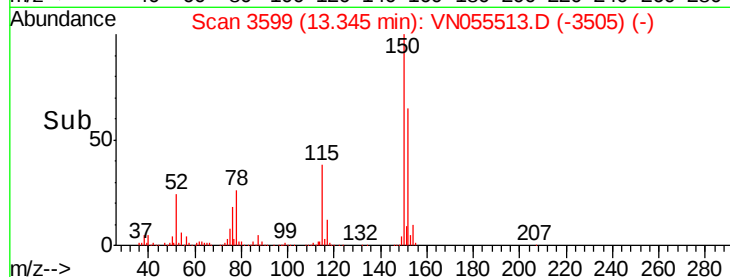
150 156.4 0.0 355.0



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055513.D

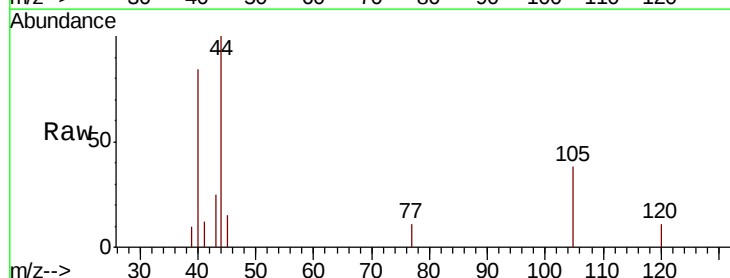
Acq: 9 May 2019 22:44

Tgt Ion:105 Resp: 729

Ion Ratio Lower Upper

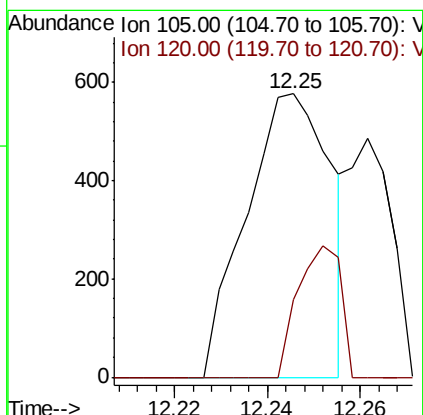
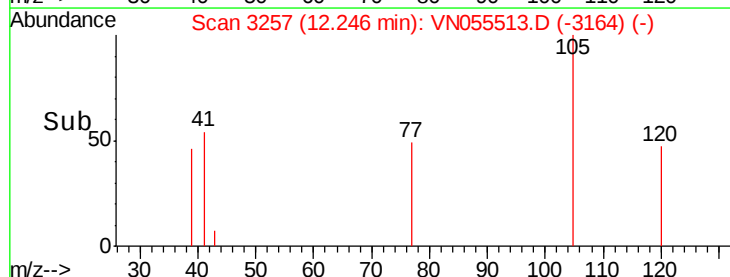
105 100

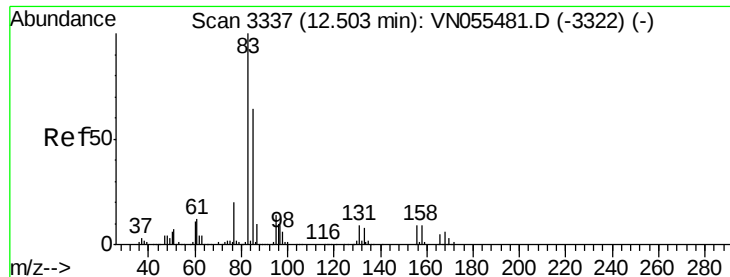
120 23.5 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.52 min Scan# 3341

Delta R.T. 0.01 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

Instrument :

MSVOA_N

ClientSampleId :

TRIP-BLANK

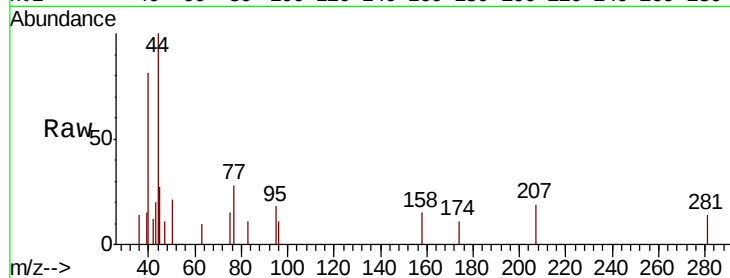
Tot Ion: 83 Resp: 96

Ion Ratio Lower Upper

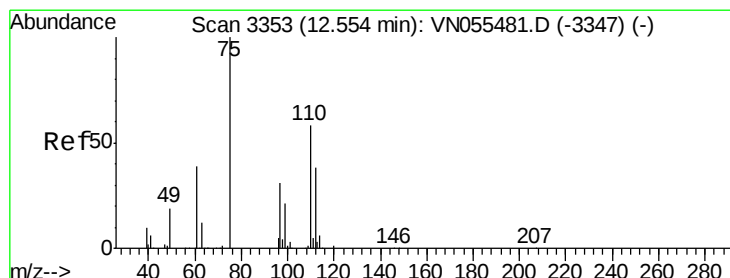
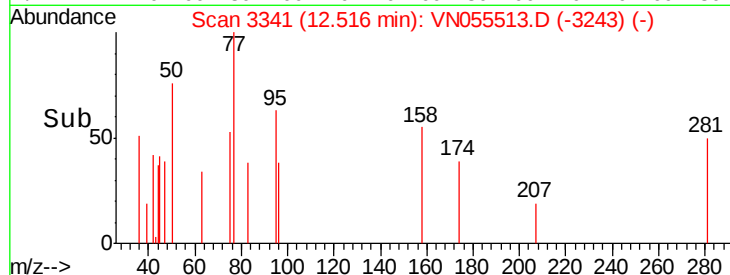
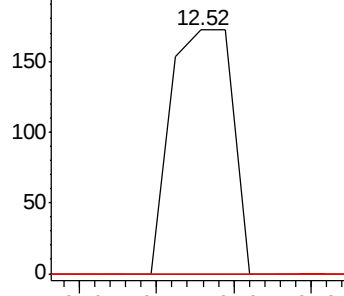
83 100

131 0.0 4.5 13.5#

85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 27.519 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055513.D

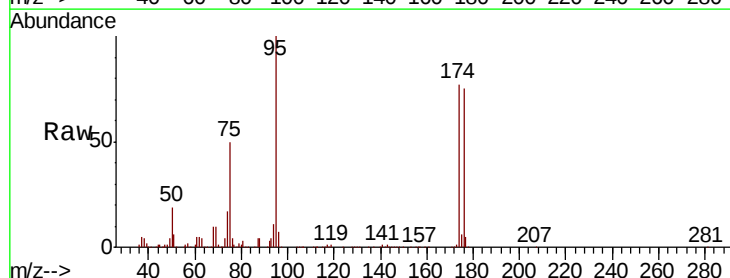
Acq: 9 May 2019 22:44

Tgt Ion: 75 Resp: 263599

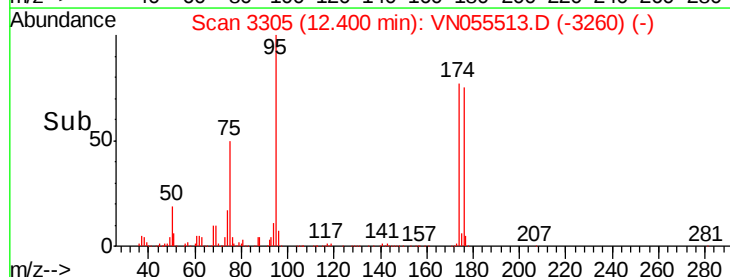
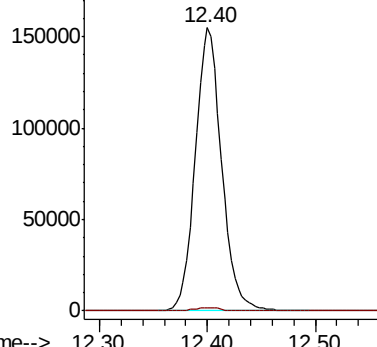
Ion Ratio Lower Upper

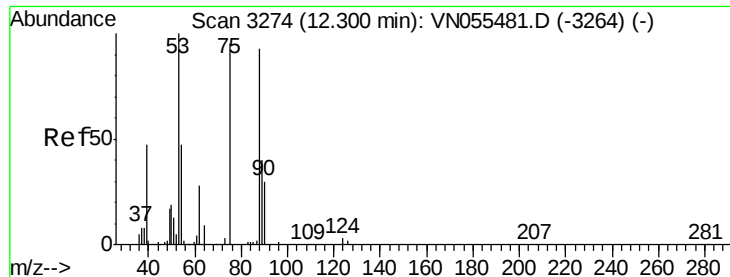
75 100

77 1.1 0.0 0.0#



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





#81

trans-1,4-Dichloro-2-butene

Concen: 101.540 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

Instrument :

MSVOA_N

ClientSampled :

TRIP-BLANK

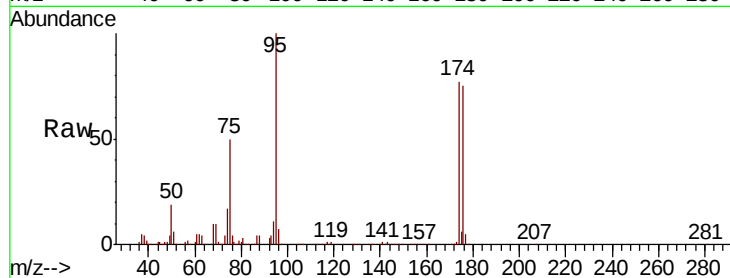
Tot Ion: 75 Resp: 263599

Ion Ratio Lower Upper

75 100

53 0.1 86.5 129.7#

89 0.0 35.7 53.5#



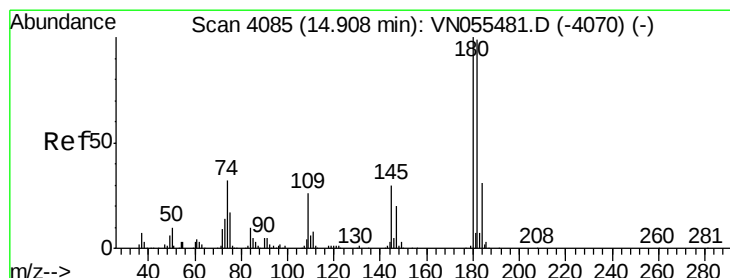
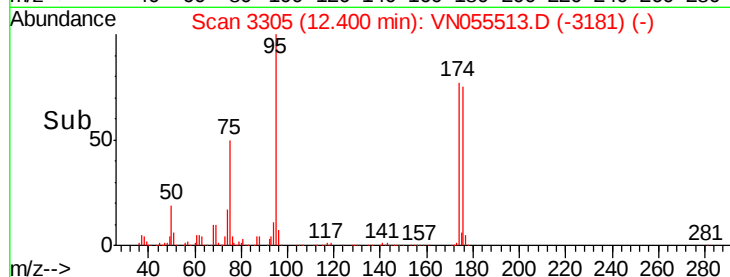
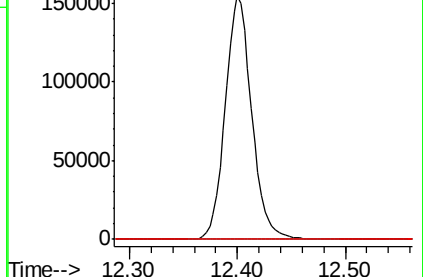
Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40



#93

1,2,4-Trichlorobenzene

Concen: 3.407 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

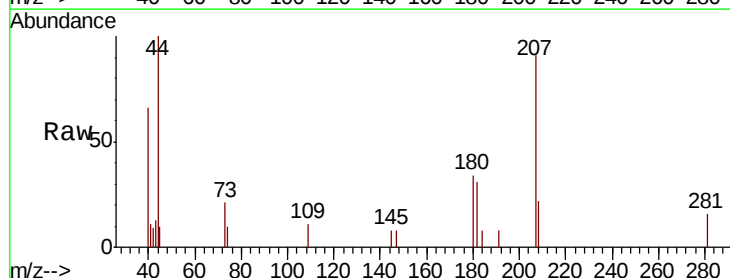
Tgt Ion: 180 Resp: 1127

Ion Ratio Lower Upper

180 100

182 82.3 48.7 146.1

145 32.7 15.3 45.9



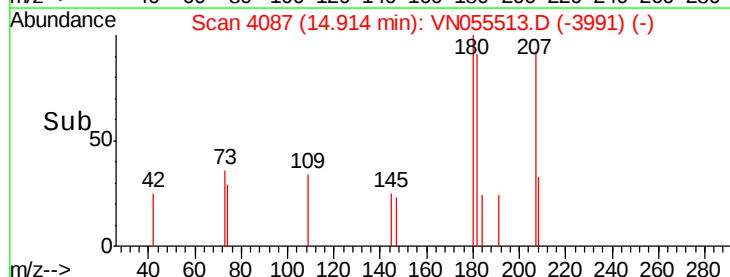
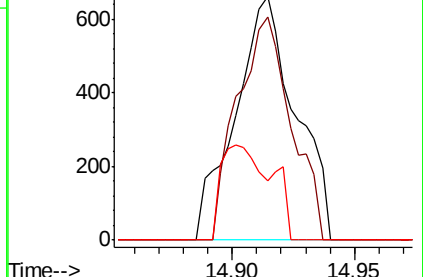
Abundance

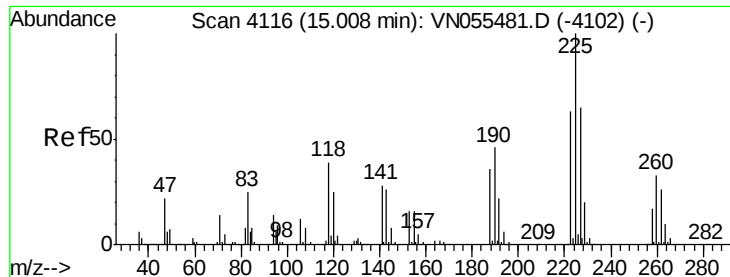
Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

14.91





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.02 min Scan# 4119

Delta R.T. 0.01 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

Instrument :

MSVOA_N

ClientSampled :

TRIP-BLANK

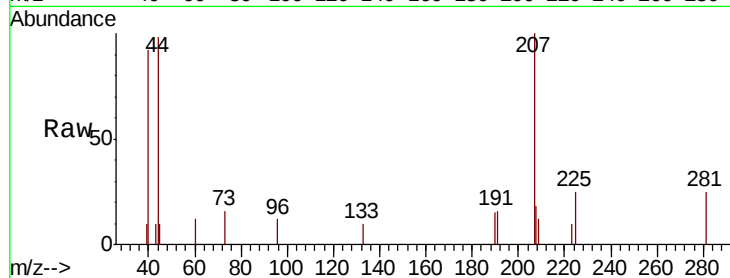
Tot Ion:225 Resp: 649

Ion Ratio Lower Upper

225 100

223 43.6 31.4 94.3

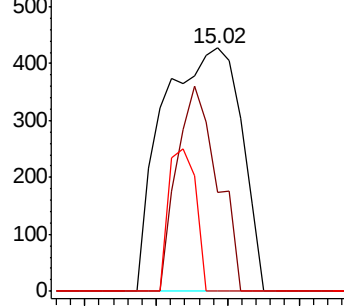
227 20.3 32.0 96.0#



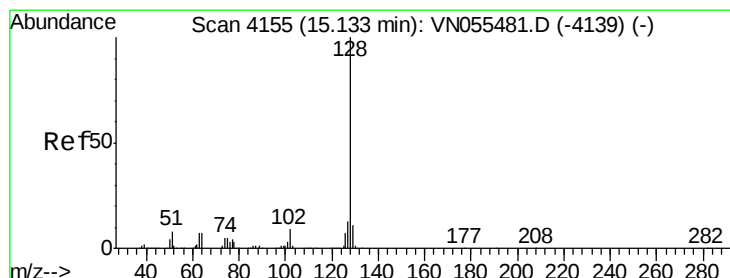
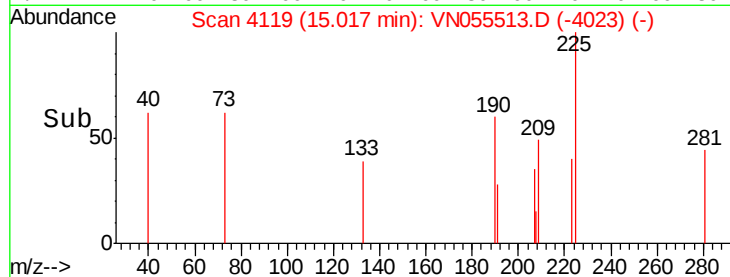
Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



Time--> 14.98 15.00 15.02 15.04



#95

Naphthalene

Concen: 3.123 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN055513.D

Acq: 9 May 2019 22:44

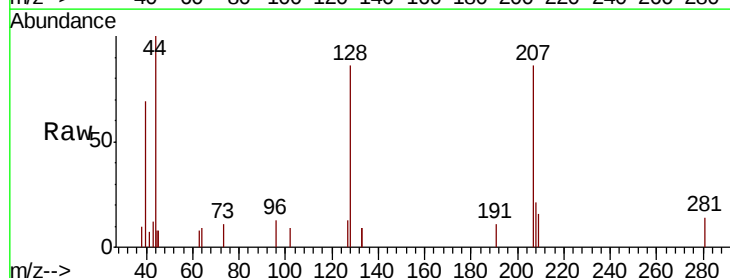
Tgt Ion:128 Resp: 2908

Ion Ratio Lower Upper

128 100

127 11.8 10.0 15.0

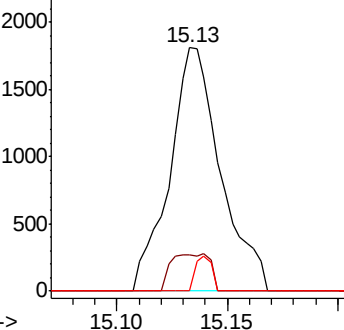
129 4.6 8.8 13.2#



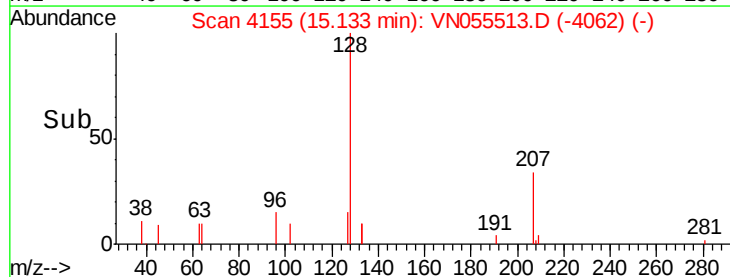
Abundance Ion 128.00 (127.70 to 128.70): V

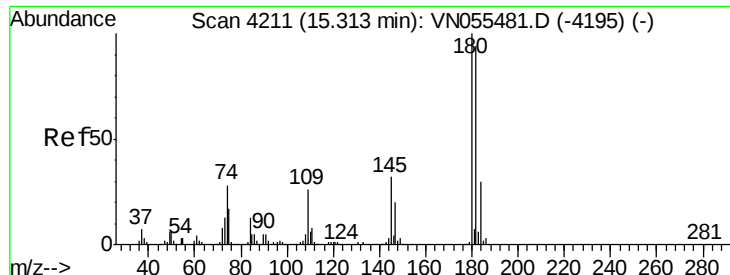
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time--> 15.10 15.15

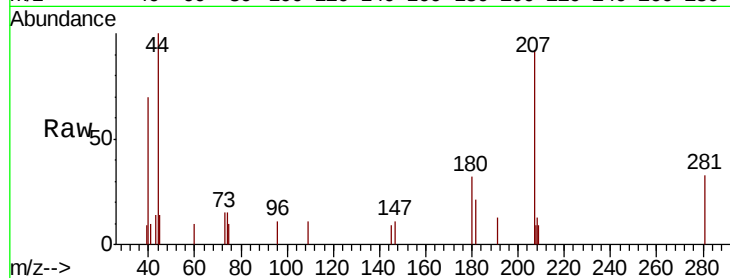




#96
 1,2,3-Trichlorobenzene
 Concen: 2.607 ug/l
 RT: 15.32 min Scan# 4214
 Delta R.T. 0.01 min
 Lab File: VN055513.D
 Acq: 9 May 2019 22:44

Instrument :
 MSVOA_N
 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
180	100		
182	96.7	47.1	141.3
145	33.9	15.8	47.4



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

