

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060519\
 Data File : VN055998.D
 Acq On : 5 Jun 2019 10:21
 Operator : JC/SP
 Sample : PB120319TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 06 01:19:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	386416	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	579572	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	540550	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	175040	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	184644	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	
35) Dibromofluoromethane	7.59	113	165057	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	
50) Toluene-d8	10.09	98	689032	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
62) 4-Bromofluorobenzene	12.40	95	220905	47.47	ug/l	0.00
Spiked Amount			Recovery	=	94.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	21950	11.962	ug/l	92
18) Methyl Acetate	4.34	43	2842	0.213	ug/l #	79
20) Methylene Chloride	4.54	84	18370	4.859	ug/l	98
25) 2-Butanone	6.85	43	502	0.217	ug/l #	47
29) Tetrahydrofuran	7.23	42	780	0.544	ug/l #	53
31) Cyclohexane	7.67	56	5304	0.871	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	21522	4.319	ug/l #	48
38) Carbon Tetrachloride	7.66	117	30793	6.702	ug/l #	15
43) Isopropyl Acetate	8.17	43	14767	2.055	ug/l #	90
45) 1,2-Dichloropropane	9.27	63	1967	0.507	ug/l #	44
48) Methyl methacrylate	9.18	41	8765	2.493	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	8161	1.816	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	65285	11.820	ug/l #	57
57) 1,3-Dichloropropane	10.76	76	12564	2.072	ug/l #	42
59) 2-Hexanone	10.76	43	158398	48.638	ug/l #	51
60) Dibromochloromethane	11.17	129	61	2.466	ug/l #	11
71) Bromoform	12.40	173	653	2.940	ug/l #	1
73) Isopropylbenzene	12.40	105	59	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	99217	30.805	ug/l #	100
79) 2-Chlorotoluene	12.59	91	283	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	99217	102.586	ug/l #	15
83) tert-Butylbenzene	12.72	119	68	Below Cal	#	28
93) 1,2,4-Trichlorobenzene	14.91	180	96	4.297	ug/l #	1
95) Naphthalene	15.14	128	651	3.923	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	192	3.086	ug/l #	65

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

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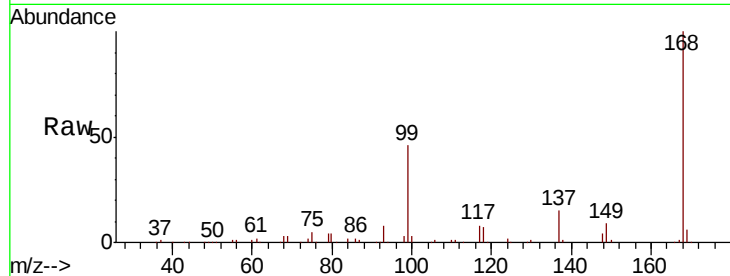
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 386416

Ion Ratio Lower Upper

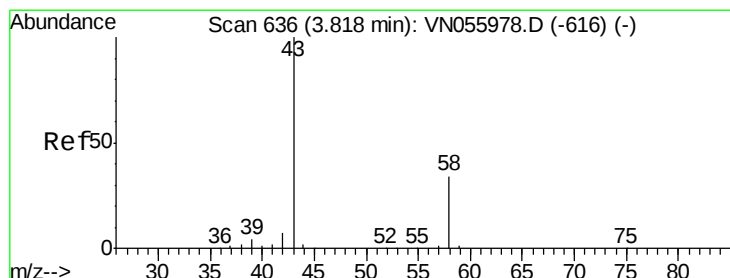
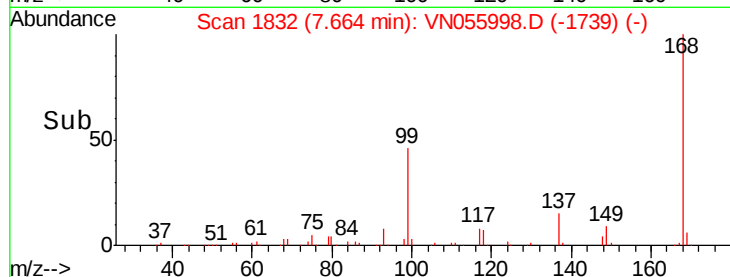
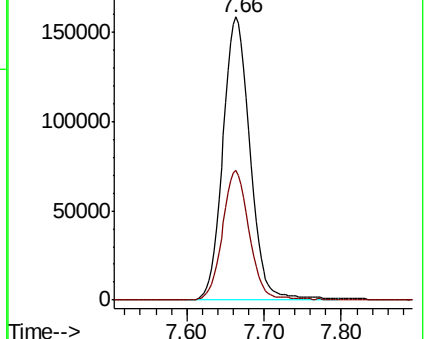
168 100

99 45.7 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 11.962 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055998.D

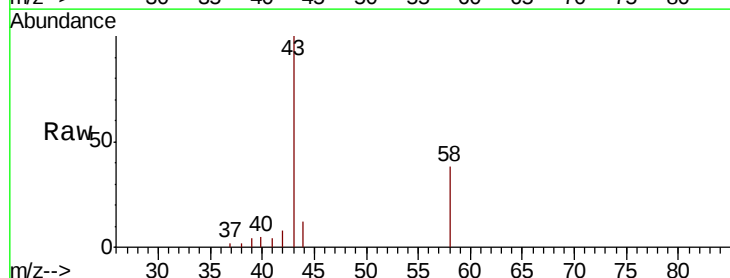
Acq: 5 Jun 2019 10:21

Tgt Ion: 43 Resp: 21950

Ion Ratio Lower Upper

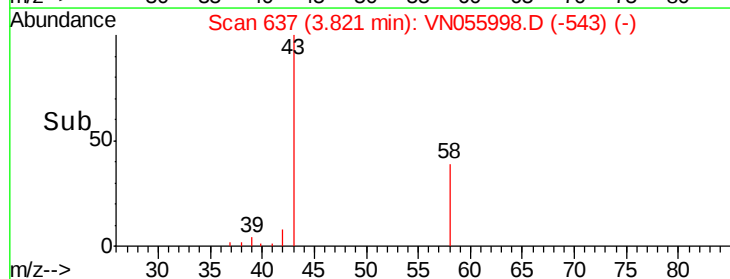
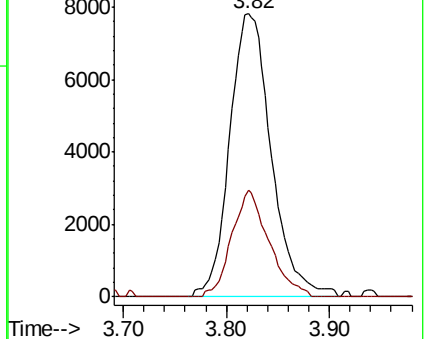
43 100

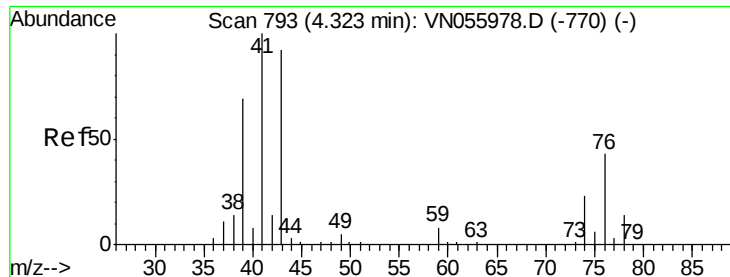
58 37.7 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

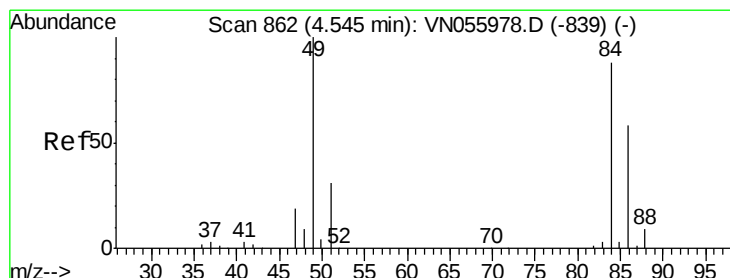
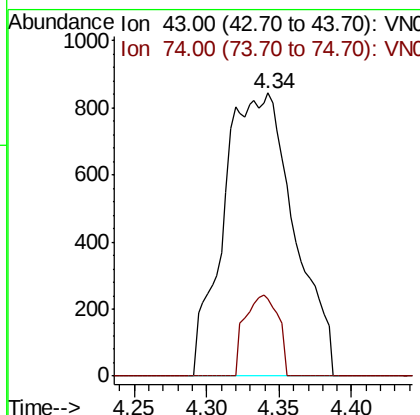
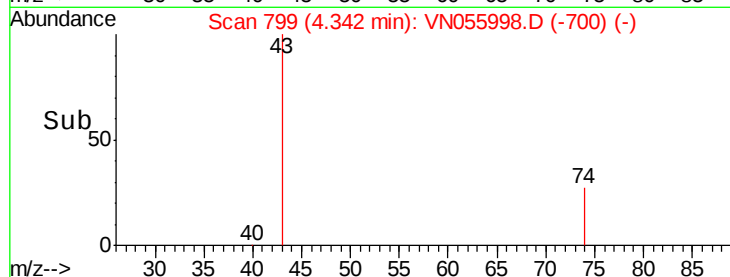
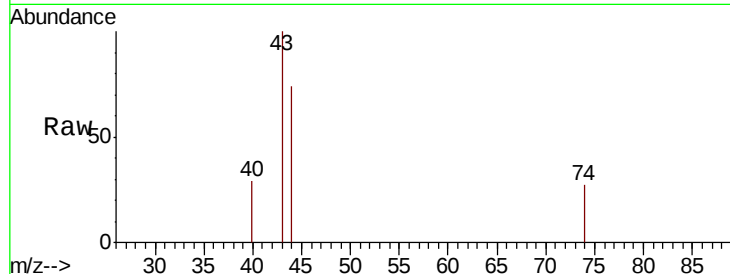




#18
Methyl Acetate
Concen: 0.213 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.02 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

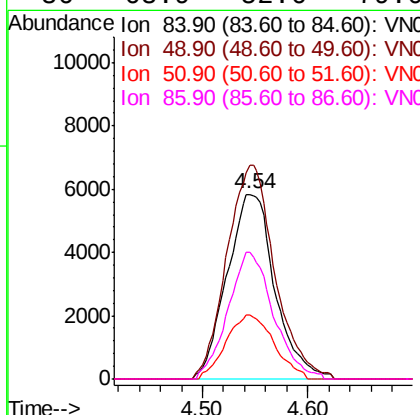
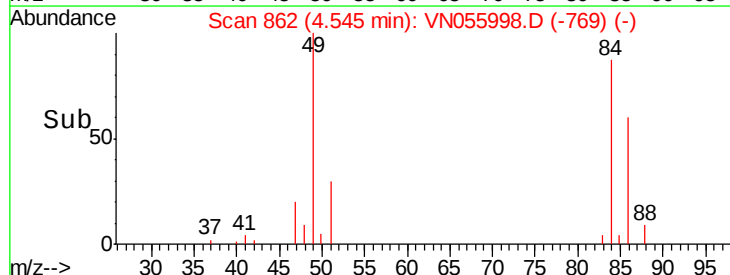
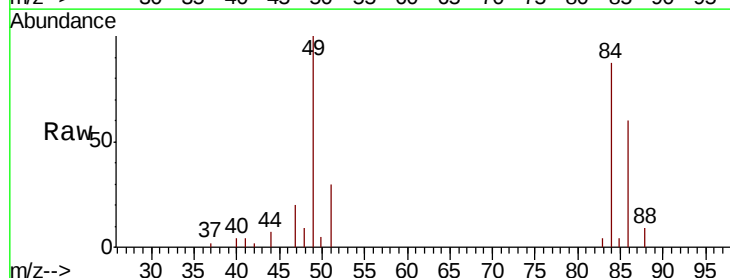
Instrument :
MSVOA_N
ClientSampleId :

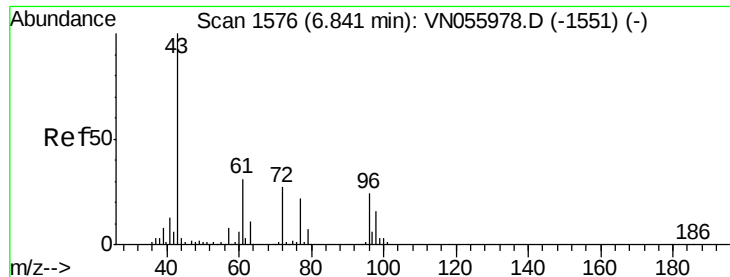
Tot Ion: 43 Resp: 2842
Ion Ratio Lower Upper
43 100
74 13.5 19.3 28.9#



#20
Methylene Chloride
Concen: 4.859 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

Tgt Ion: 84 Resp: 18370
Ion Ratio Lower Upper
84 100
49 115.4 93.5 140.3
51 34.5 28.6 43.0
86 68.9 52.6 79.0

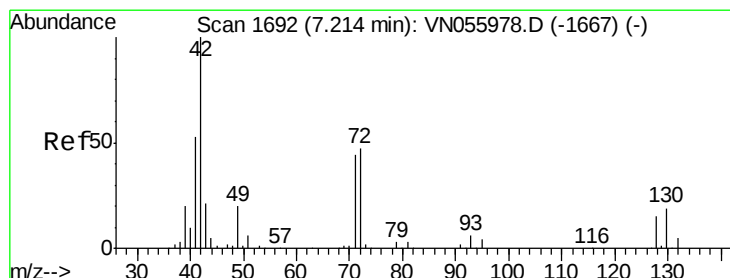
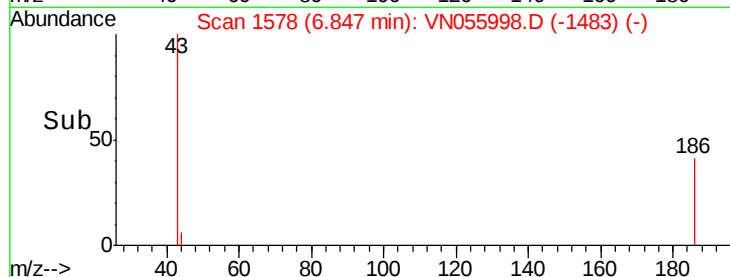
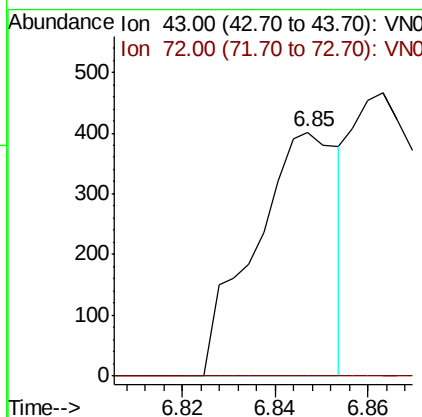
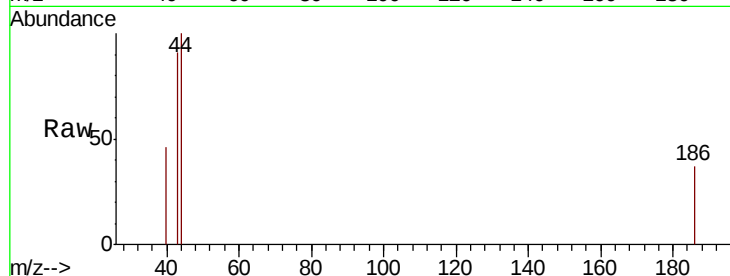




#25
2-Butanone
Concen: 0.217 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

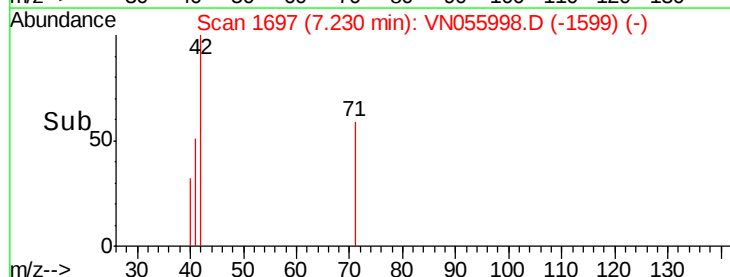
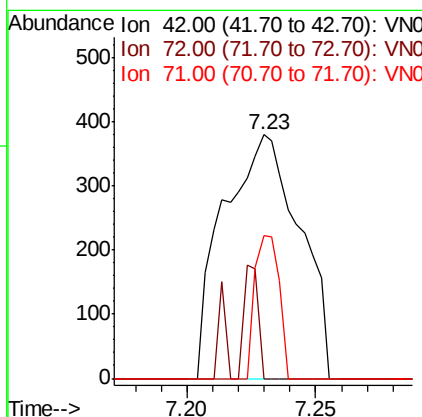
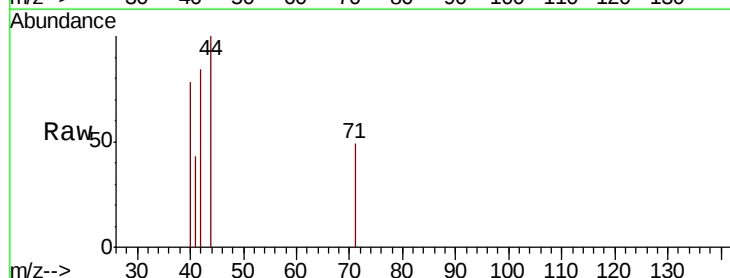
Instrument :
MSVOA_N
ClientSampled :

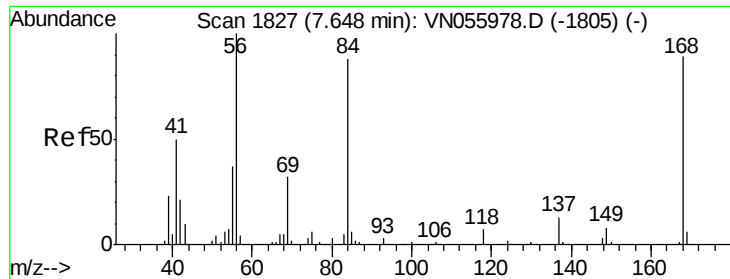
Tot Ion: 43 Resp: 502
Ion Ratio Lower Upper
43 100
72 0.0 21.9 32.9#



#29
Tetrahydrofuran
Concen: 0.544 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.02 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

Tgt Ion: 42 Resp: 780
Ion Ratio Lower Upper
42 100
72 8.6 35.9 53.9#
71 19.0 34.0 51.0#

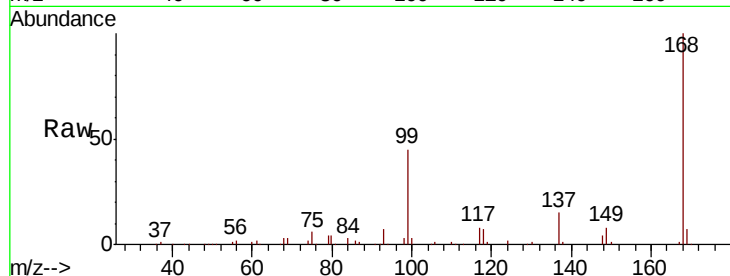




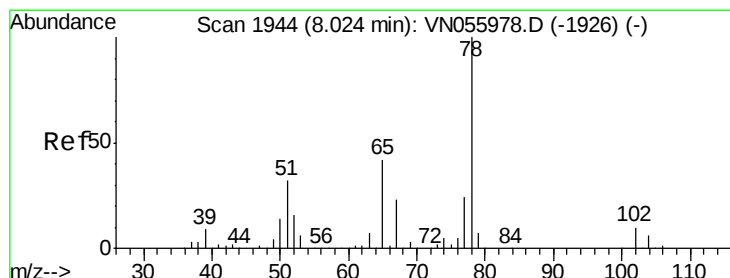
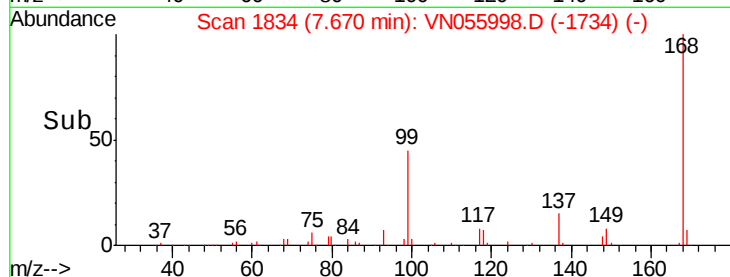
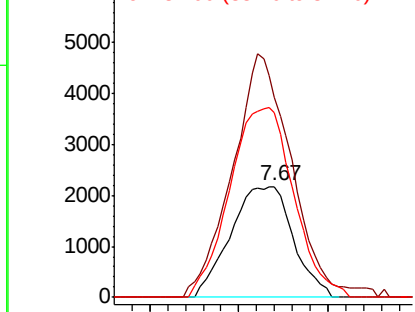
#31
Cyclohexane
Concen: 0.871 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 5304
Ion Ratio Lower Upper
56 100
69 171.3 25.6 38.4#
84 166.9 67.4 101.0#

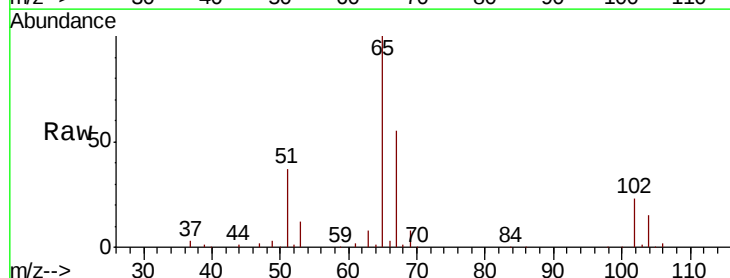


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

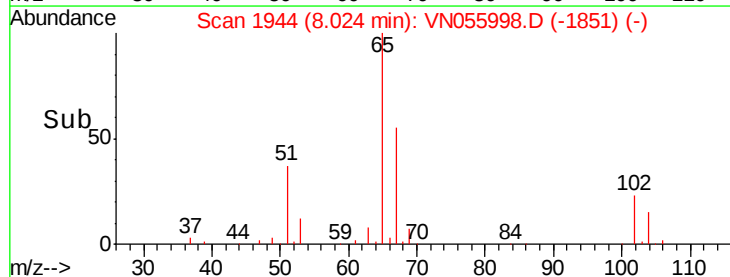
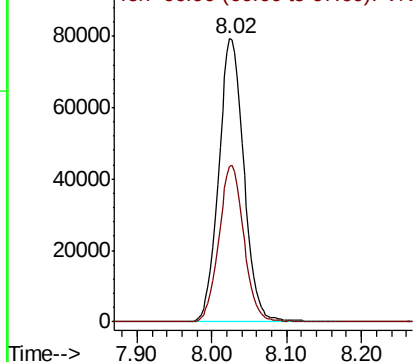


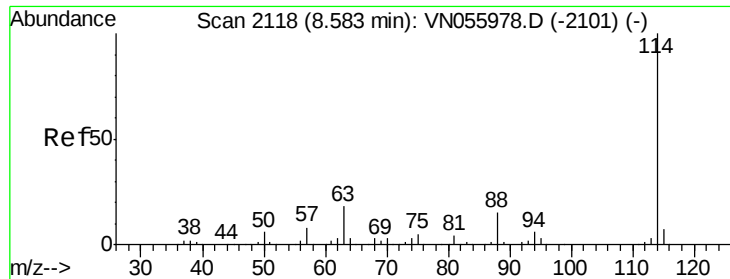
#33
1,2-Dichloroethane-d4
Concen: 48.125 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

Tgt Ion: 65 Resp: 184644
Ion Ratio Lower Upper
65 100
67 54.6 0.0 109.2



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

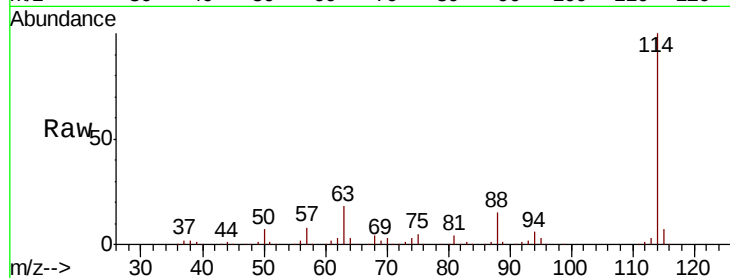




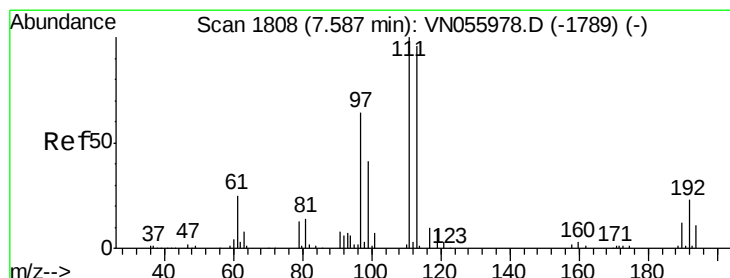
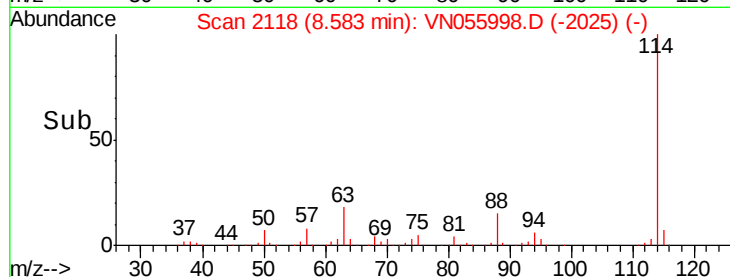
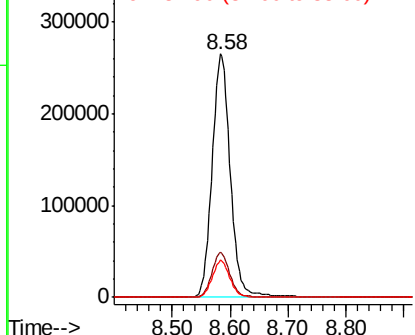
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 579572
Ion Ratio Lower Upper
114 100
63 18.3 0.0 39.2
88 15.3 0.0 31.0

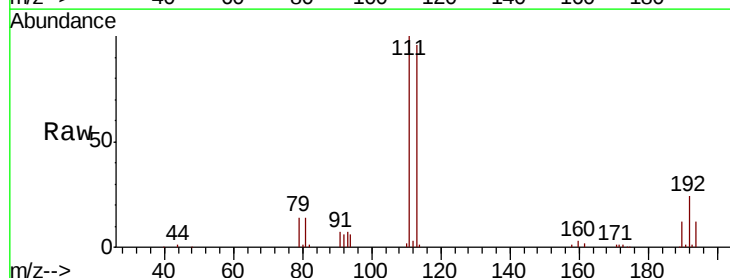


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

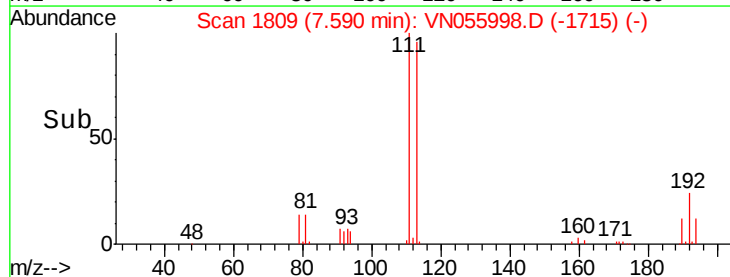
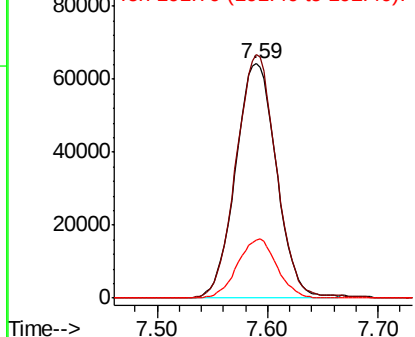


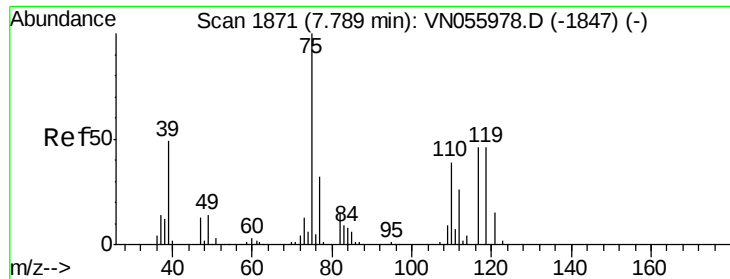
#35
Dibromofluoromethane
Concen: 46.418 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

Tgt Ion:113 Resp: 165057
Ion Ratio Lower Upper
113 100
111 101.4 81.9 122.9
192 24.3 19.5 29.3



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

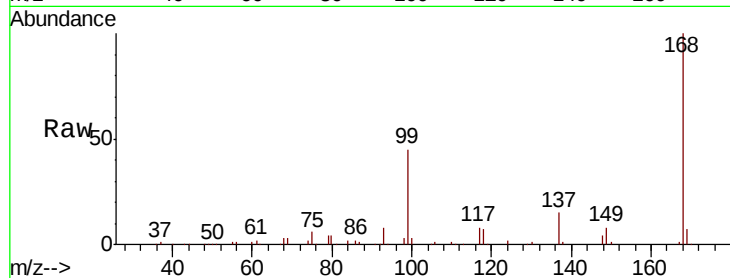




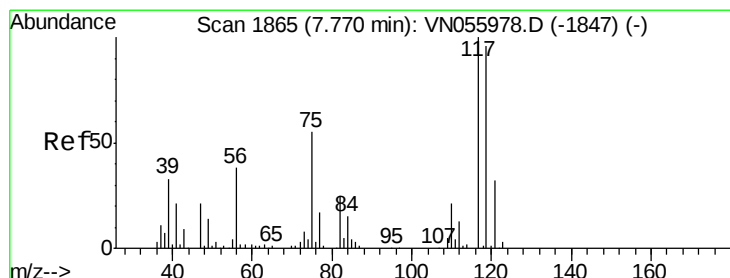
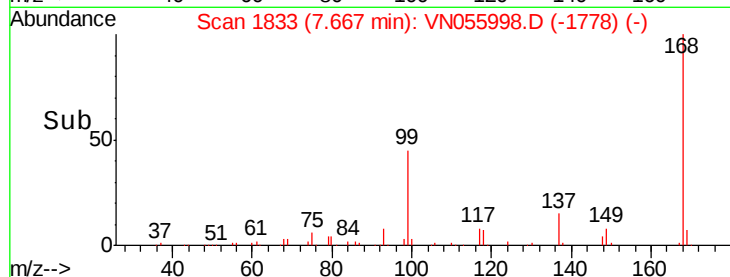
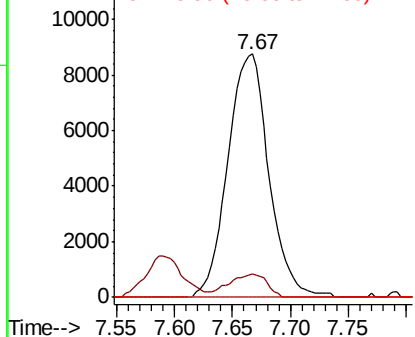
#36
 1,1-Dichloropropene
 Concen: 4.319 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055998.D
 Acq: 5 Jun 2019 10:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 21522
 Ion Ratio Lower Upper
 75 100
 110 9.0 19.0 57.0#
 77 0.0 25.1 37.7#

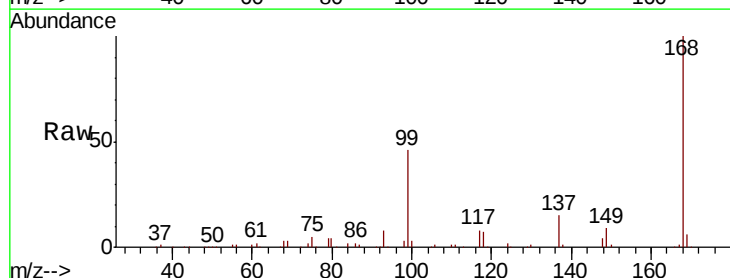


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

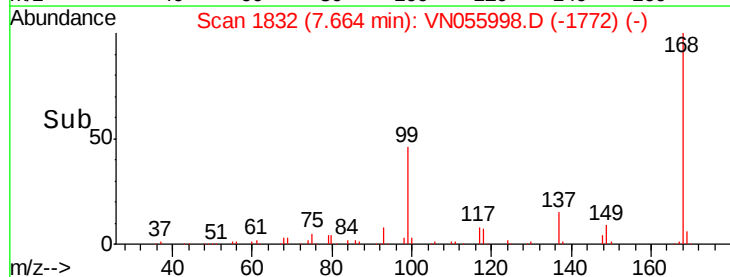
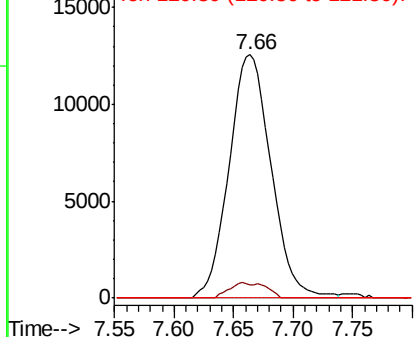


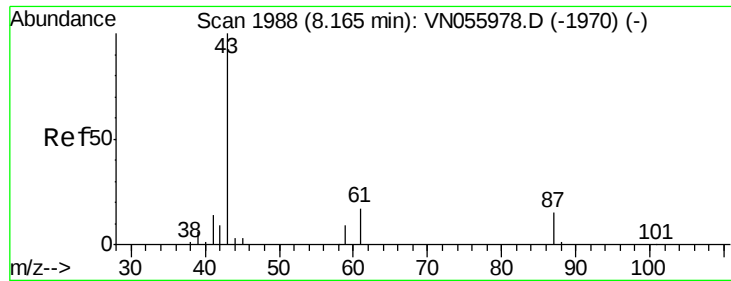
#38
 Carbon Tetrachloride
 Concen: 6.702 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055998.D
 Acq: 5 Jun 2019 10:21

Tgt Ion: 117 Resp: 30793
 Ion Ratio Lower Upper
 117 100
 119 5.5 79.0 118.6#
 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: 2.055 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN055998.D

Acq: 5 Jun 2019 10:21

Instrument :

MSVOA_N

ClientSampleId :

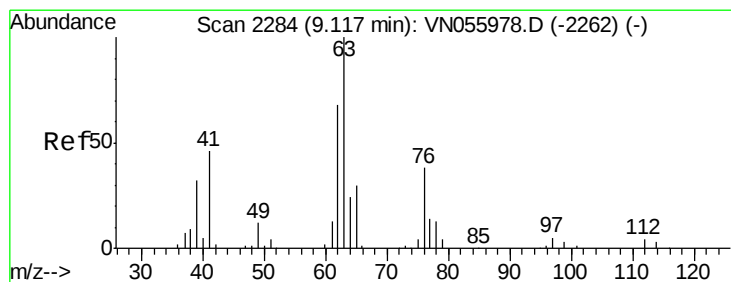
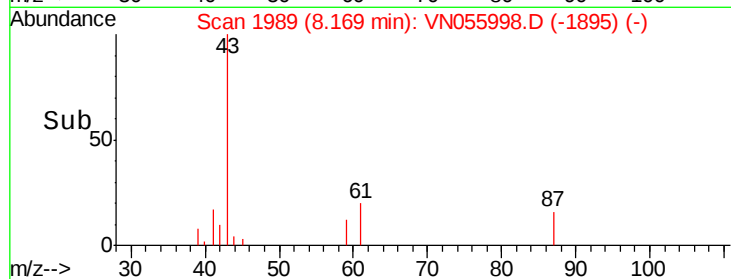
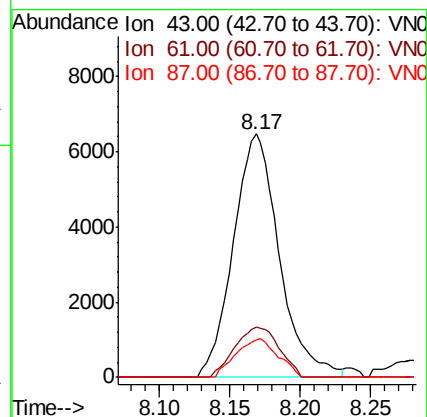
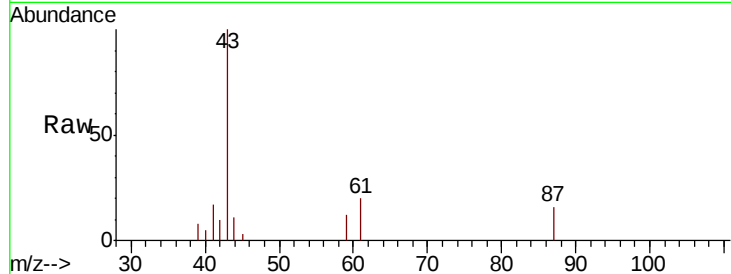
Tot Ion: 43 Resp: 14767

Ion Ratio Lower Upper

43 100

61 19.9 22.2 33.4#

87 14.5 11.4 17.2



#45

1,2-Dichloropropane

Concen: 0.507 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN055998.D

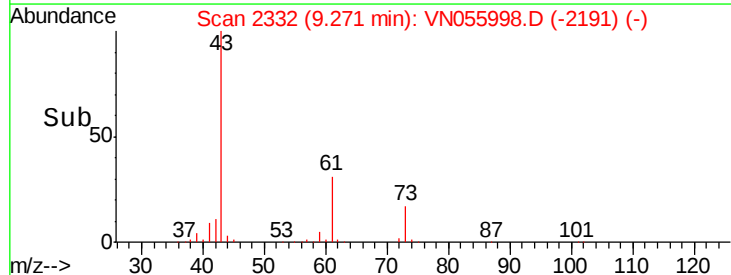
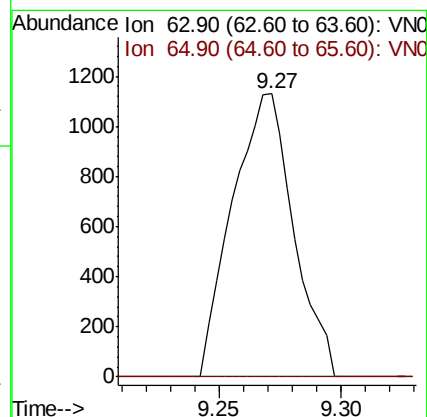
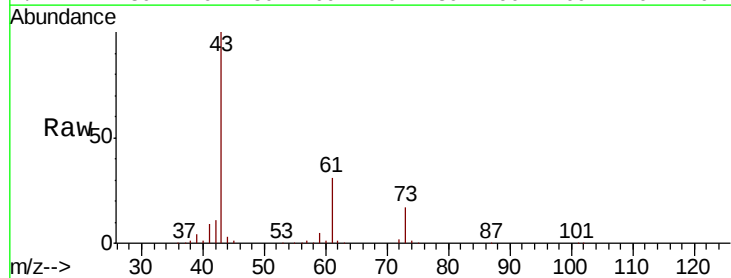
Acq: 5 Jun 2019 10:21

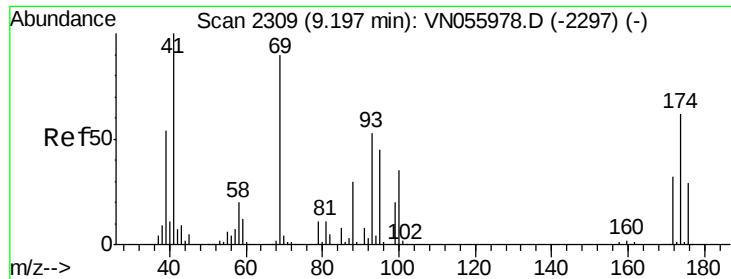
Tgt Ion: 63 Resp: 1967

Ion Ratio Lower Upper

63 100

65 0.0 24.6 36.8#

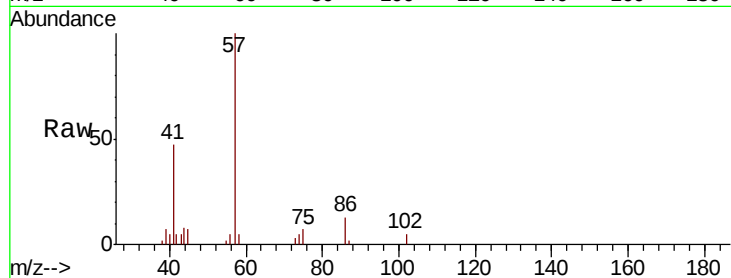




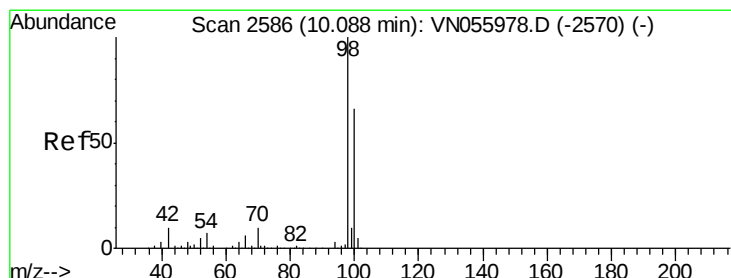
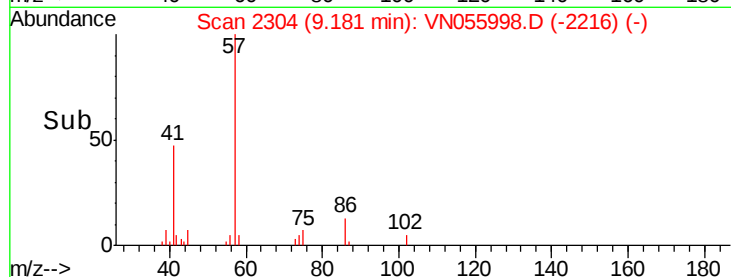
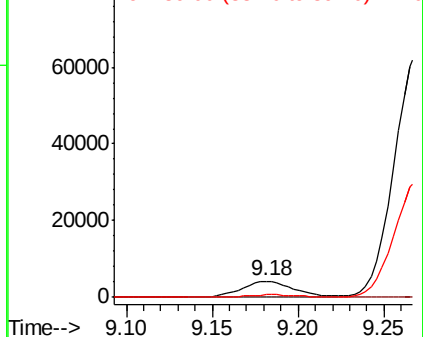
#48
Methvl methacrvlate
Concen: 2.493 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 8765
Ion Ratio Lower Upper
41 100
69 0.0 71.0 106.6#
39 0.0 44.2 66.2#

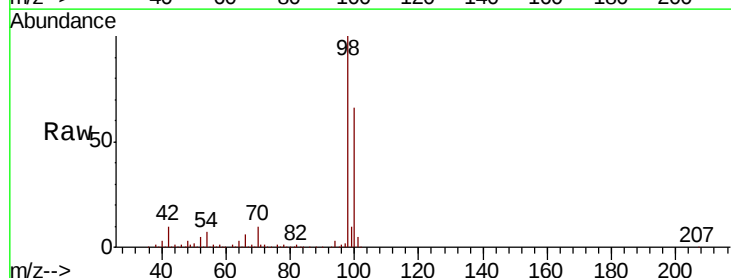


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

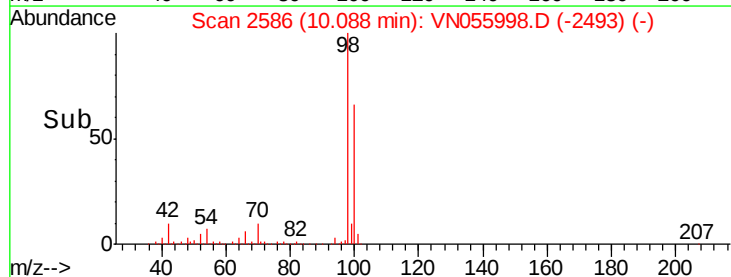
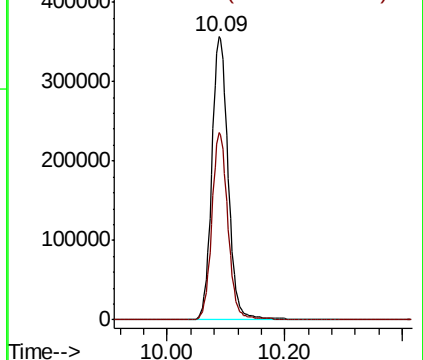


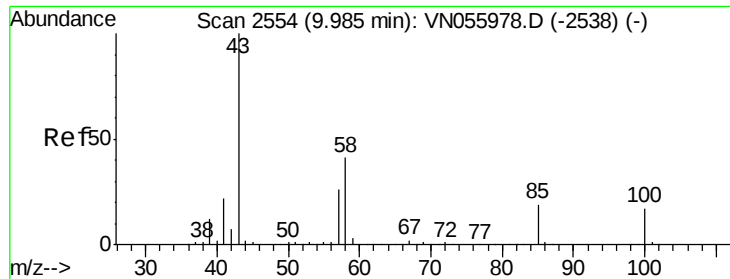
#50
Toluene-d8
Concen: 50.357 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

Tgt Ion: 98 Resp: 689032
Ion Ratio Lower Upper
98 100
100 65.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.816 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN055998.D

Acq: 5 Jun 2019 10:21

Instrument :

MSVOA_N

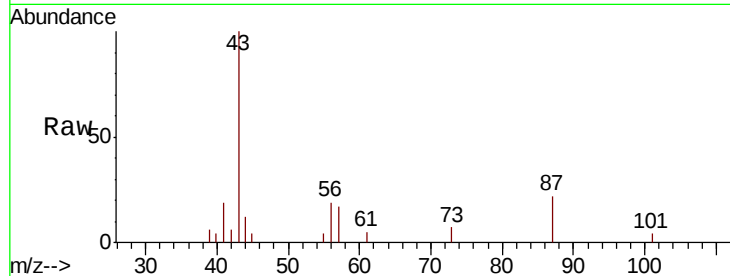
ClientSampled :

Tot Ion: 43 Resp: 8161

Ion Ratio Lower Upper

43 100

58 0.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.02

6000

5000

4000

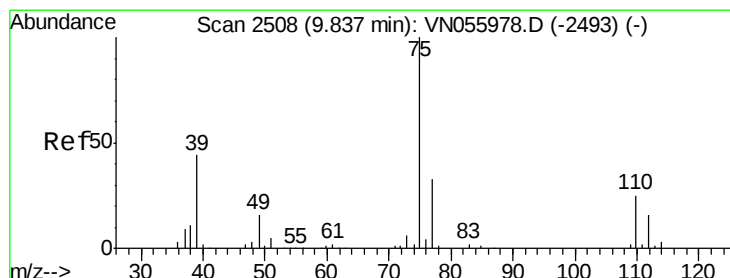
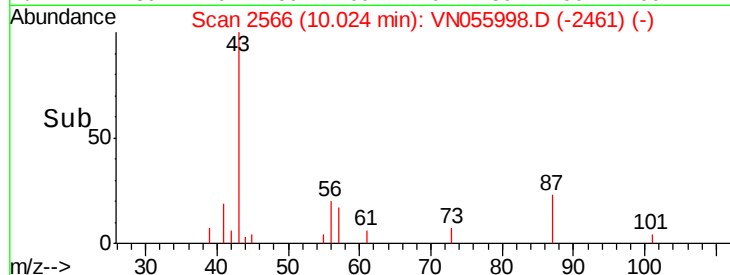
3000

2000

1000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 11.820 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN055998.D

Acq: 5 Jun 2019 10:21

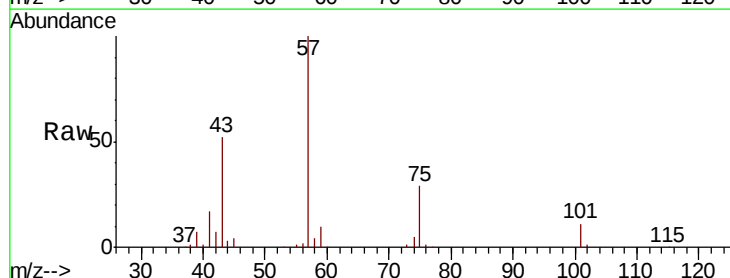
Tgt Ion: 75 Resp: 65285

Ion Ratio Lower Upper

75 100

77 0.5 25.4 38.0#

39 22.9 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

50000

40000

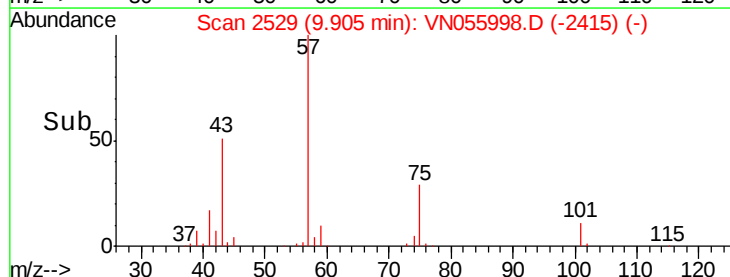
30000

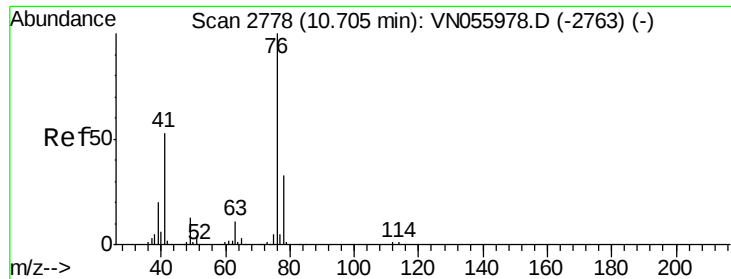
20000

10000

0

Time-->

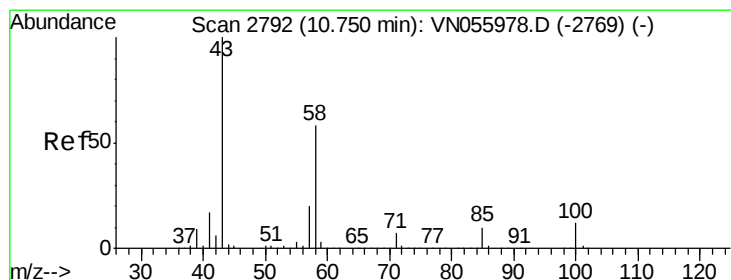
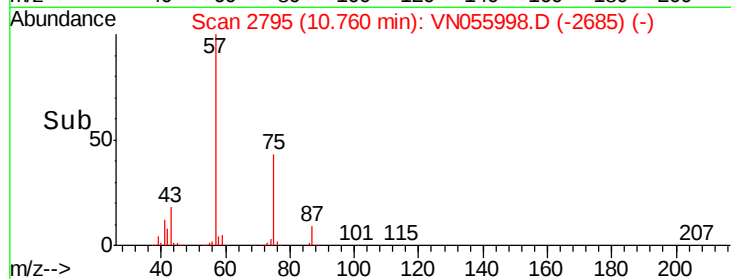
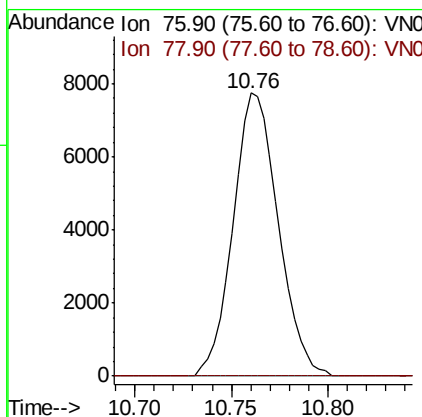
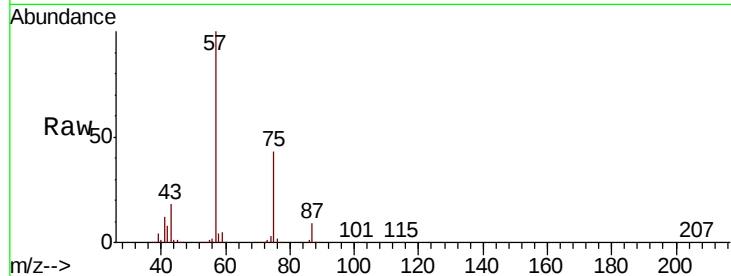




#57
 1,3-Dichloropropane
 Concen: 2.072 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN055998.D
 Acq: 5 Jun 2019 10:21

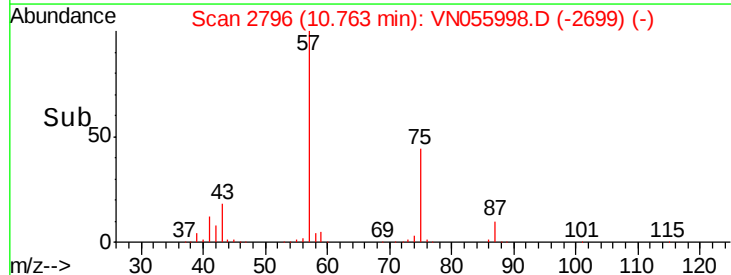
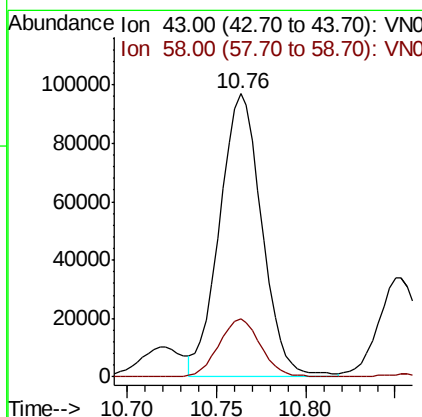
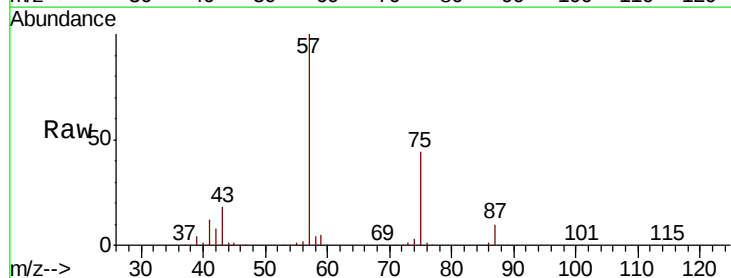
Instrument :
 MSVOA_N
 ClientSampleId :

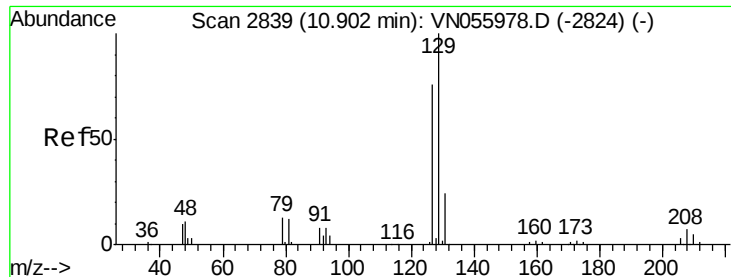
Tot Ion: 76 Resp: 12564
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 48.638 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN055998.D
 Acq: 5 Jun 2019 10:21

Tgt Ion: 43 Resp: 158398
 Ion Ratio Lower Upper
 43 100
 58 20.5 28.2 84.7#





#60

Dibromochloromethane

Concen: 2.466 ug/l

RT: 11.17 min Scan# 2922

Delta R.T. 0.27 min

Lab File: VN055998.D

Acq: 5 Jun 2019 10:21

Instrument :

MSVOA_N

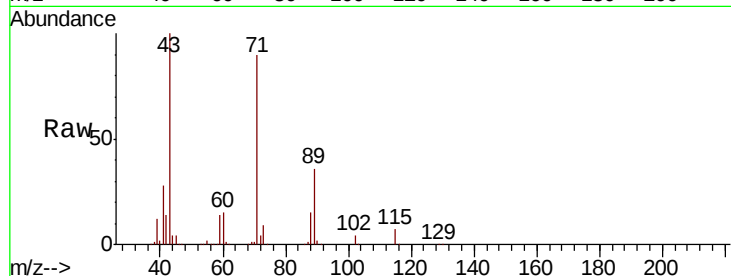
ClientSampleId :

Tot Ion:129 Resp: 61

Ion Ratio Lower Upper

129 100

127 0.0 38.1 114.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

11.17

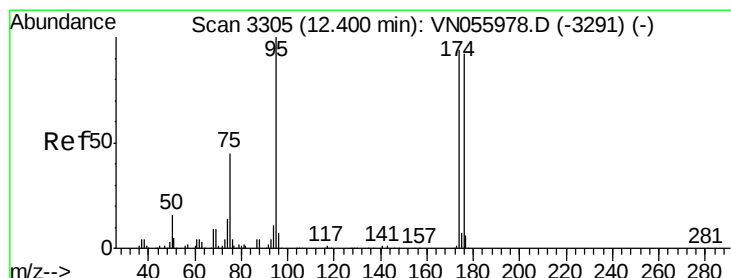
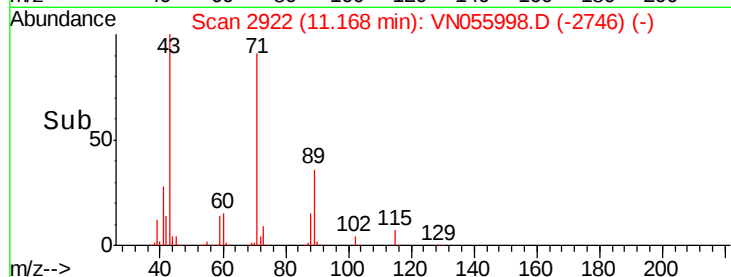
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 47.473 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055998.D

Acq: 5 Jun 2019 10:21

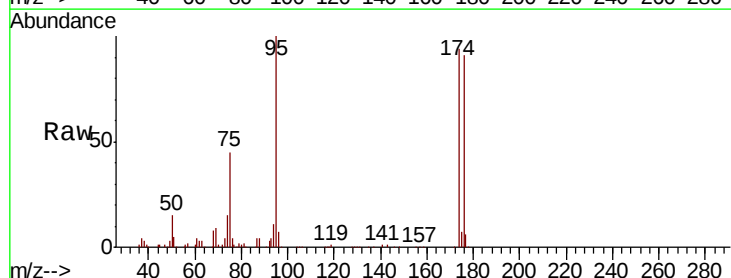
Tgt Ion: 95 Resp: 220905

Ion Ratio Lower Upper

95 100

174 94.8 0.0 191.0

176 91.9 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

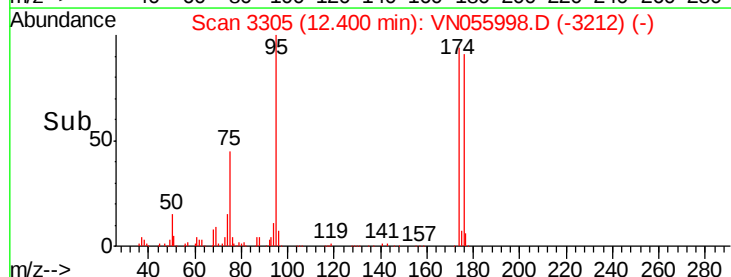
150000

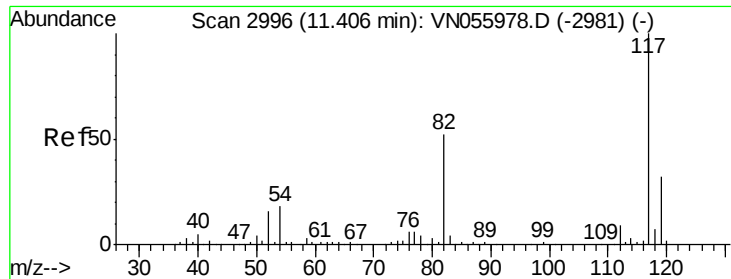
100000

50000

0

Time-->

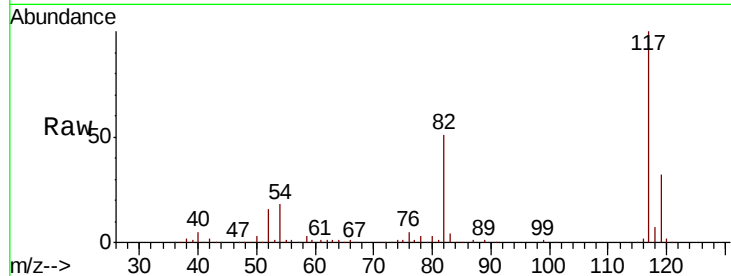




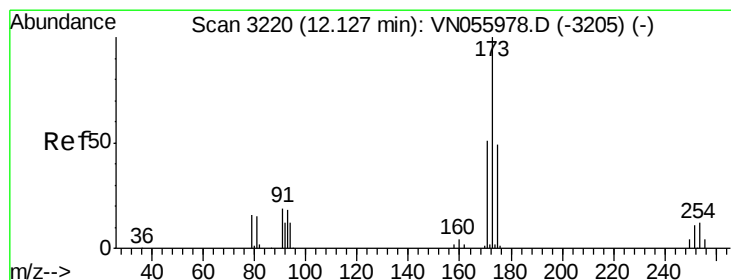
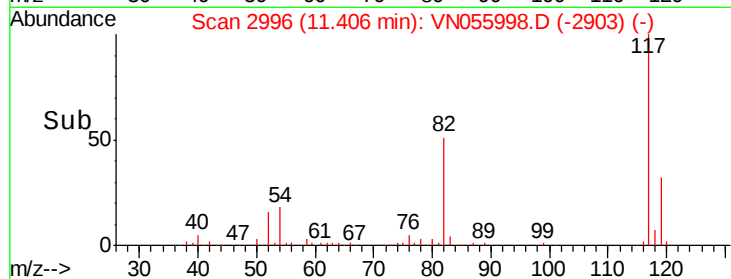
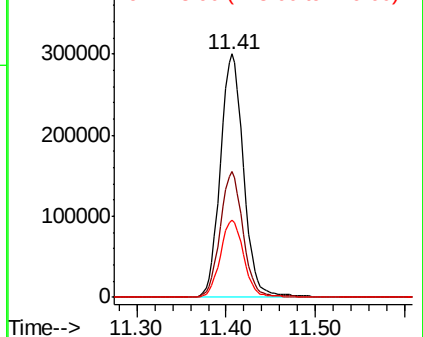
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 540550
Ion Ratio Lower Upper
117 100
82 51.4 41.8 62.8
119 31.9 25.4 38.0

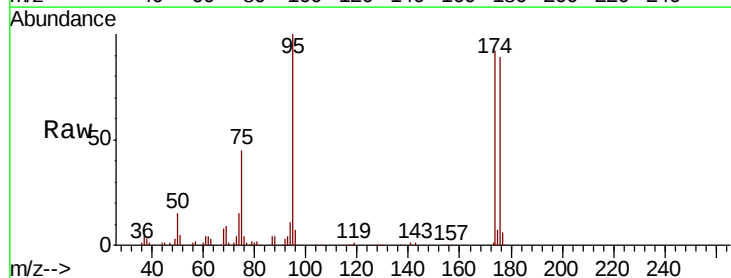


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

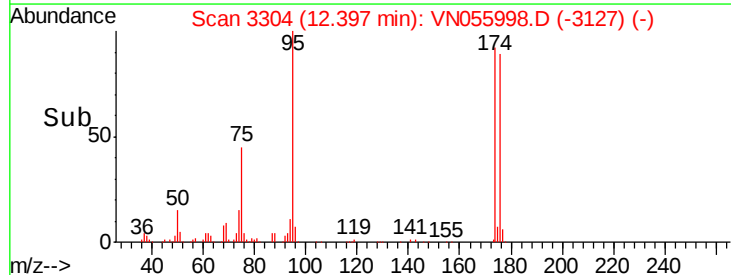
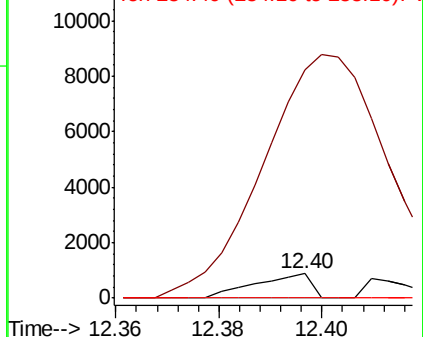


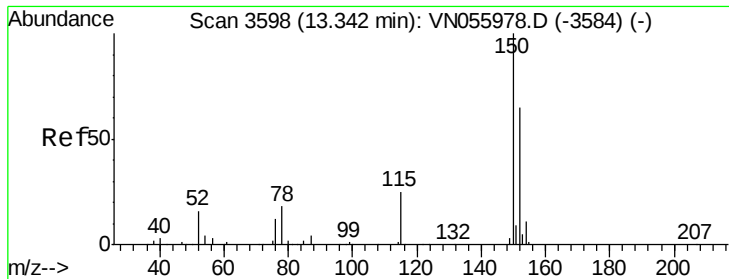
#71
Bromoform
Concen: 2.940 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

Tgt Ion:173 Resp: 653
Ion Ratio Lower Upper
173 100
175 2009.0 24.3 72.8#
254 0.0 0.0 0.0



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



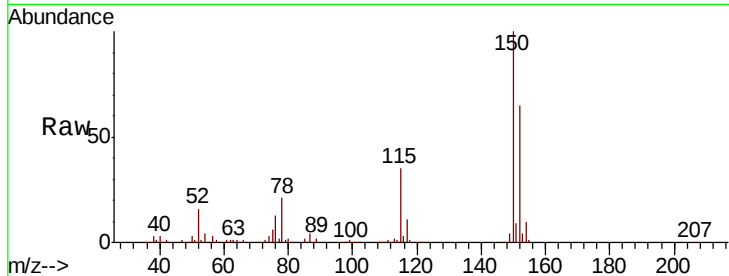


#72

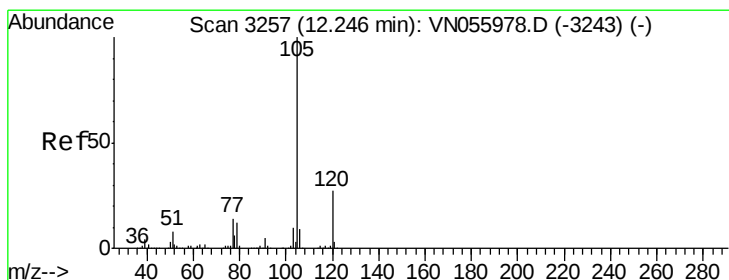
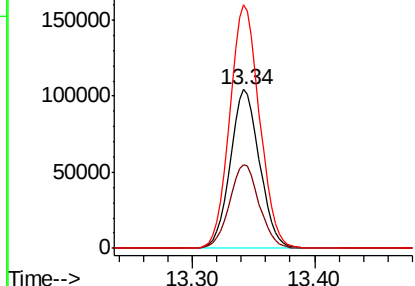
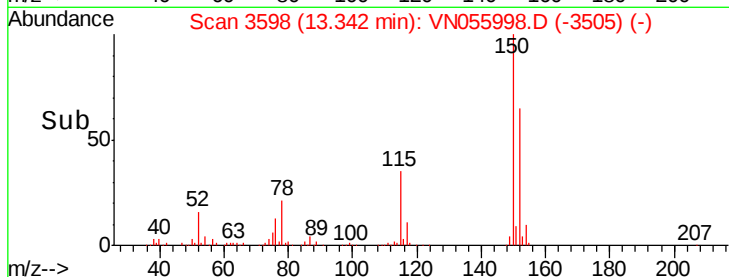
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	53.3	27.0	81.0
150	155.4	0.0	343.2



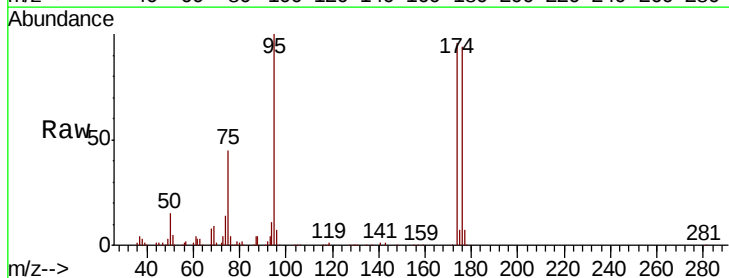
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



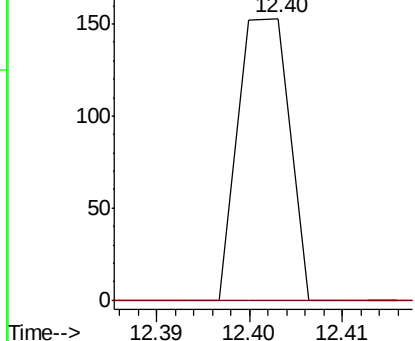
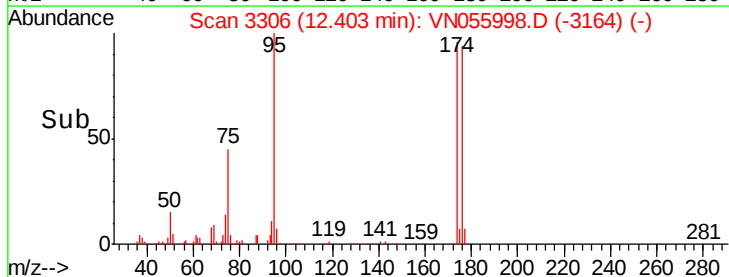
#73

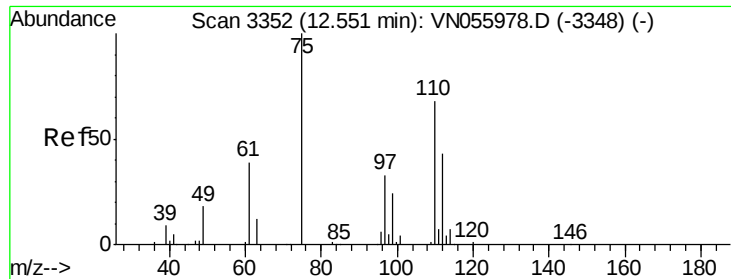
Isopropylbenzene
Concen: Below Cal
RT: 12.40 min Scan# 3306
Delta R.T. 0.16 min
Lab File: VN055998.D
Acq: 5 Jun 2019 10:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.6	40.7#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 30.805 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055998.D

Acq: 5 Jun 2019 10:21

Instrument :

MSVOA_N

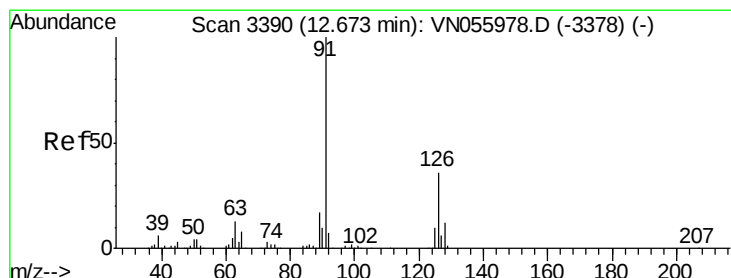
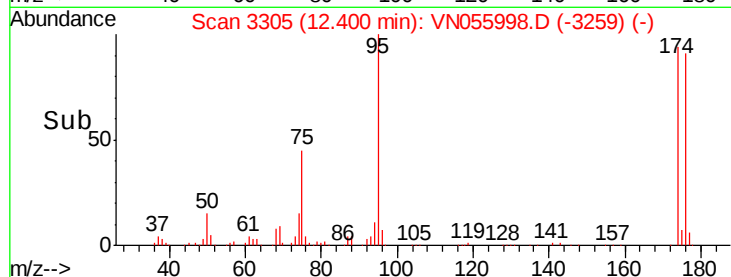
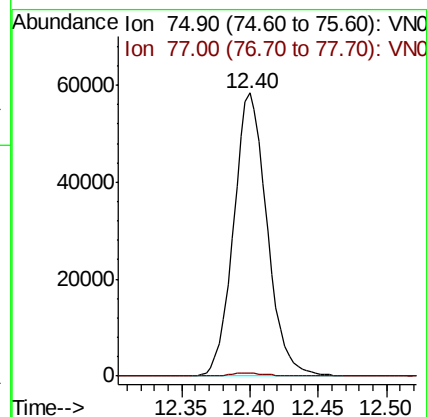
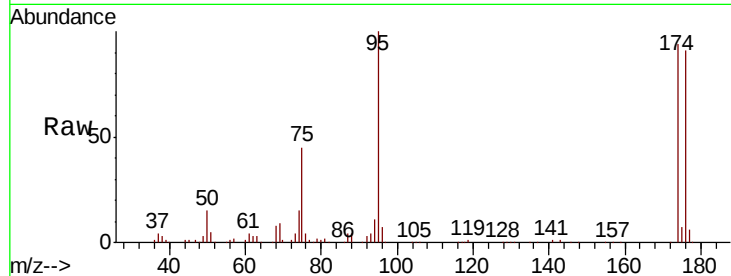
ClientSampled :

Tot Ion: 75 Resp: 99217

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN055998.D

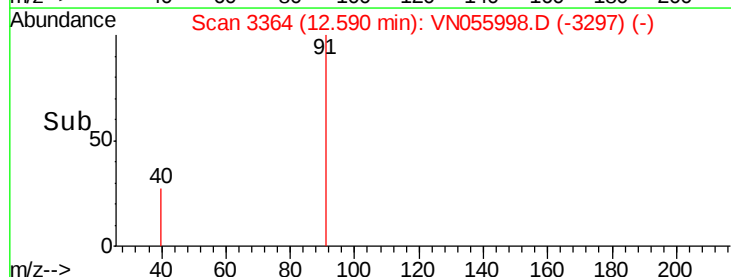
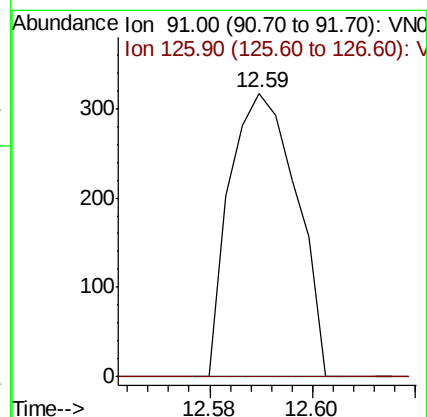
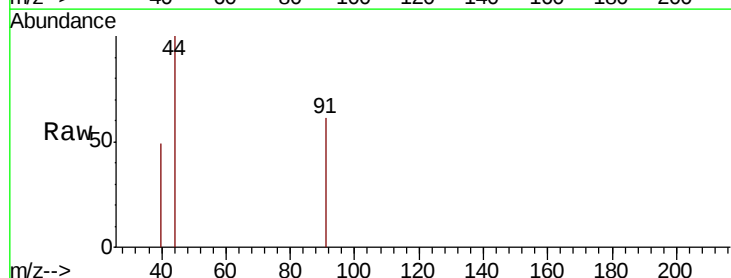
Acq: 5 Jun 2019 10:21

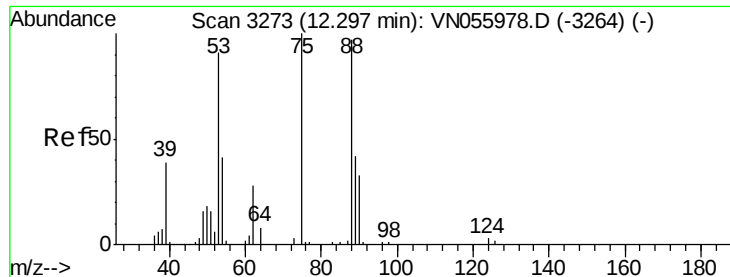
Tgt Ion: 91 Resp: 283

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 102.586 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055998.D

Acq: 5 Jun 2019 10:21

Instrument :

MSVOA_N

ClientSampleId :

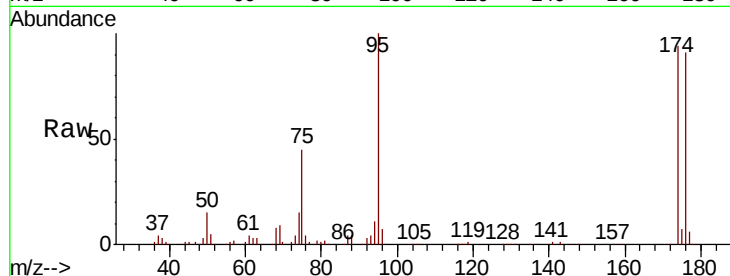
Tot Ion: 75 Resp: 99217

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

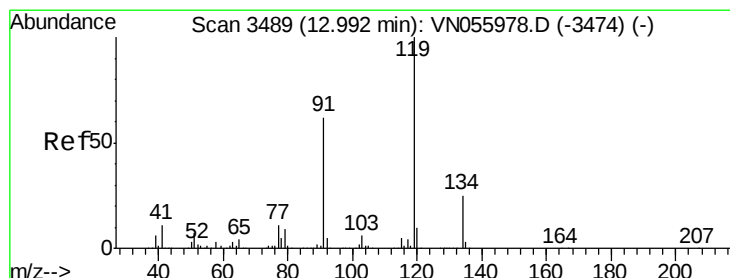
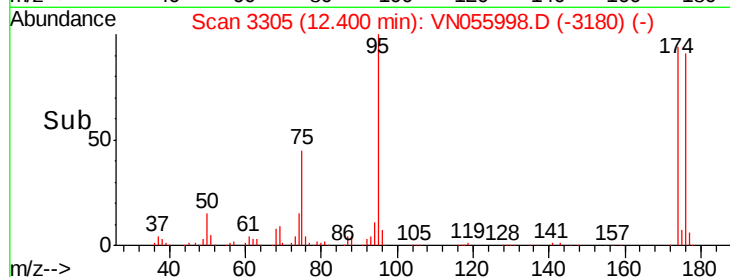
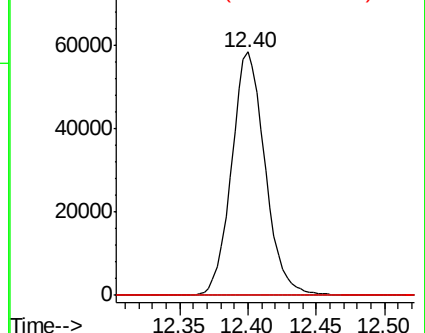
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055998.D (-3180) (-)

Ion 53.00 (52.70 to 53.70): VN055998.D (-3180) (-)

Ion 88.90 (88.60 to 89.60): VN055998.D (-3180) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.72 min Scan# 3406

Delta R.T. -0.27 min

Lab File: VN055998.D

Acq: 5 Jun 2019 10:21

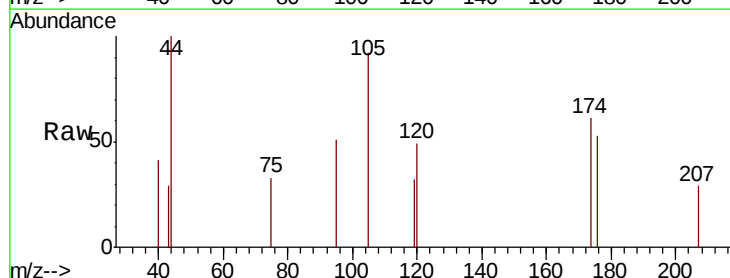
Tgt Ion: 119 Resp: 68

Ion Ratio Lower Upper

119 100

91 0.0 30.9 92.8#

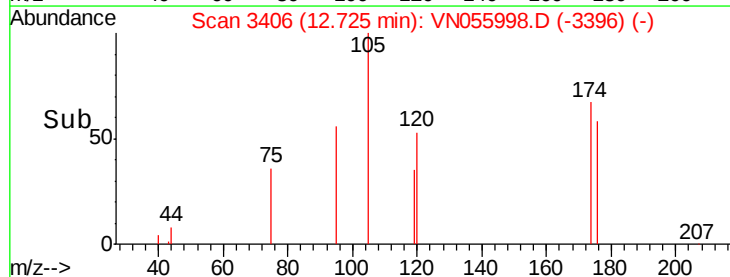
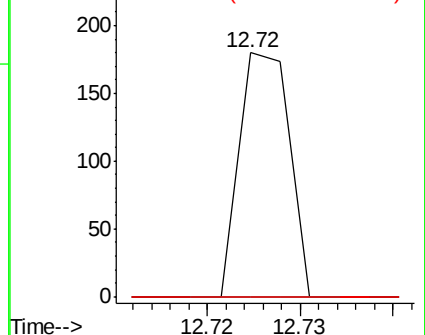
134 0.0 13.3 39.8#

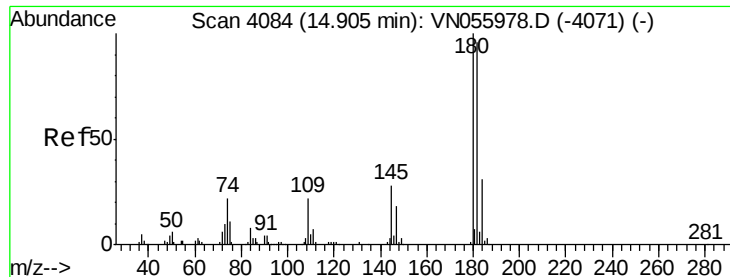


Abundance Ion 119.00 (118.70 to 119.70): VN055998.D (-3396) (-)

Ion 91.00 (90.70 to 91.70): VN055998.D (-3396) (-)

Ion 134.00 (133.70 to 134.70): VN055998.D (-3396) (-)

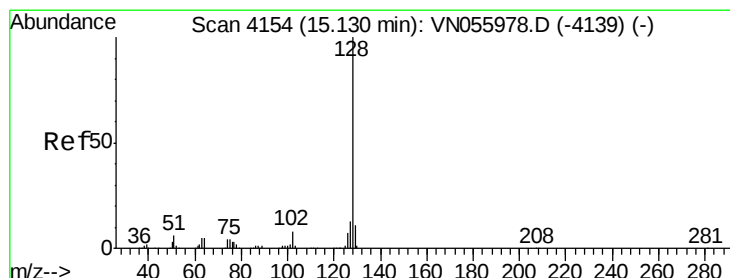
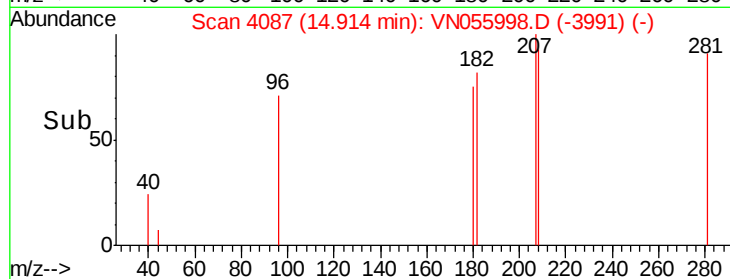
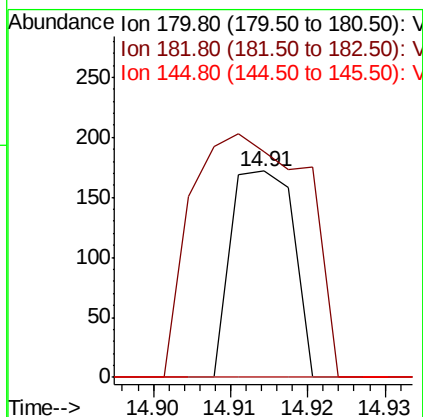
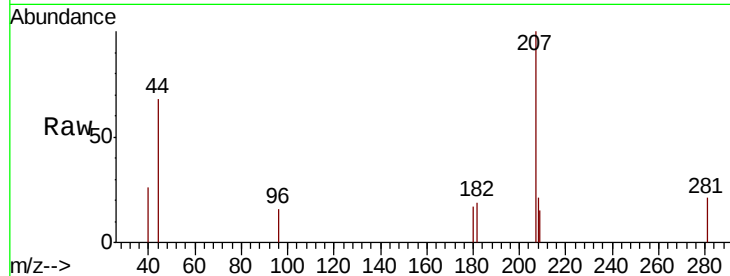




#93
 1,2,4-Trichlorobenzene
 Concen: 4.297 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN055998.D
 Acq: 5 Jun 2019 10:21

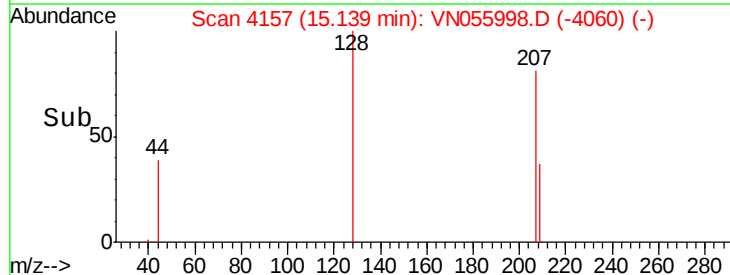
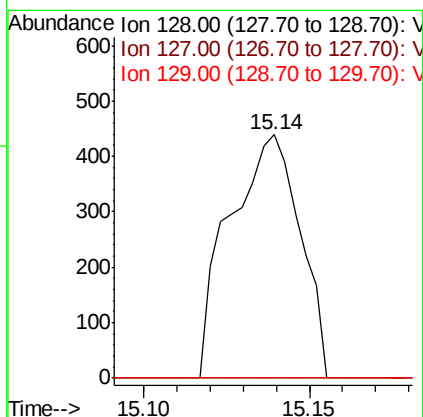
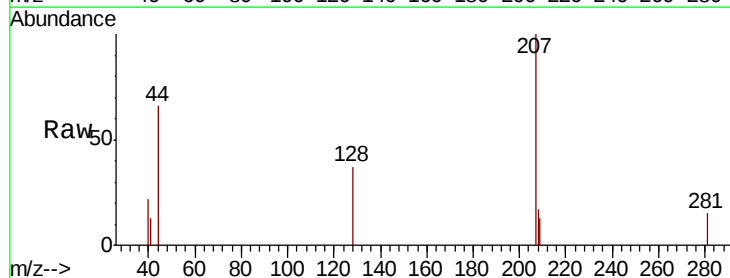
Instrument :
 MSVOA_N
 ClientSampled :

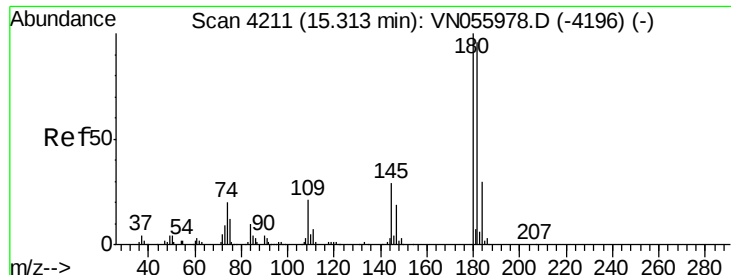
Tot Ion	Ratio	Lower	Upper
180	100		
182	217.7	48.3	144.9#
145	0.0	14.0	41.9#



#95
 Naphthalene
 Concen: 3.923 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN055998.D
 Acq: 5 Jun 2019 10:21

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.7	13.1#

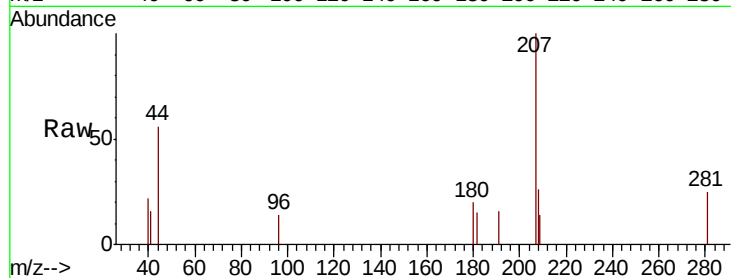




#96
 1,2,3-Trichlorobenzene
 Concen: 3.086 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN055998.D
 Acq: 5 Jun 2019 10:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	68.2	47.9	143.7
145	0.0	14.9	44.7



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

