

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056158.D
 Acq On : 10 Jun 2019 10:21
 Operator : JC/SP
 Sample : K3255-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 11 02:18:05 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	305954	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	474078	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	457475	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	147317	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	163525	53.83	ug/l	0.00
Spiked Amount						
			Recovery	=	107.66%	
35) Dibromofluoromethane	7.59	113	150816	51.85	ug/l	0.00
Spiked Amount						
			Recovery	=	103.70%	
50) Toluene-d8	10.09	98	600799	53.68	ug/l	0.00
Spiked Amount						
			Recovery	=	107.36%	
62) 4-Bromofluorobenzene	12.40	95	192212	50.50	ug/l	0.00
Spiked Amount						
			Recovery	=	101.00%	

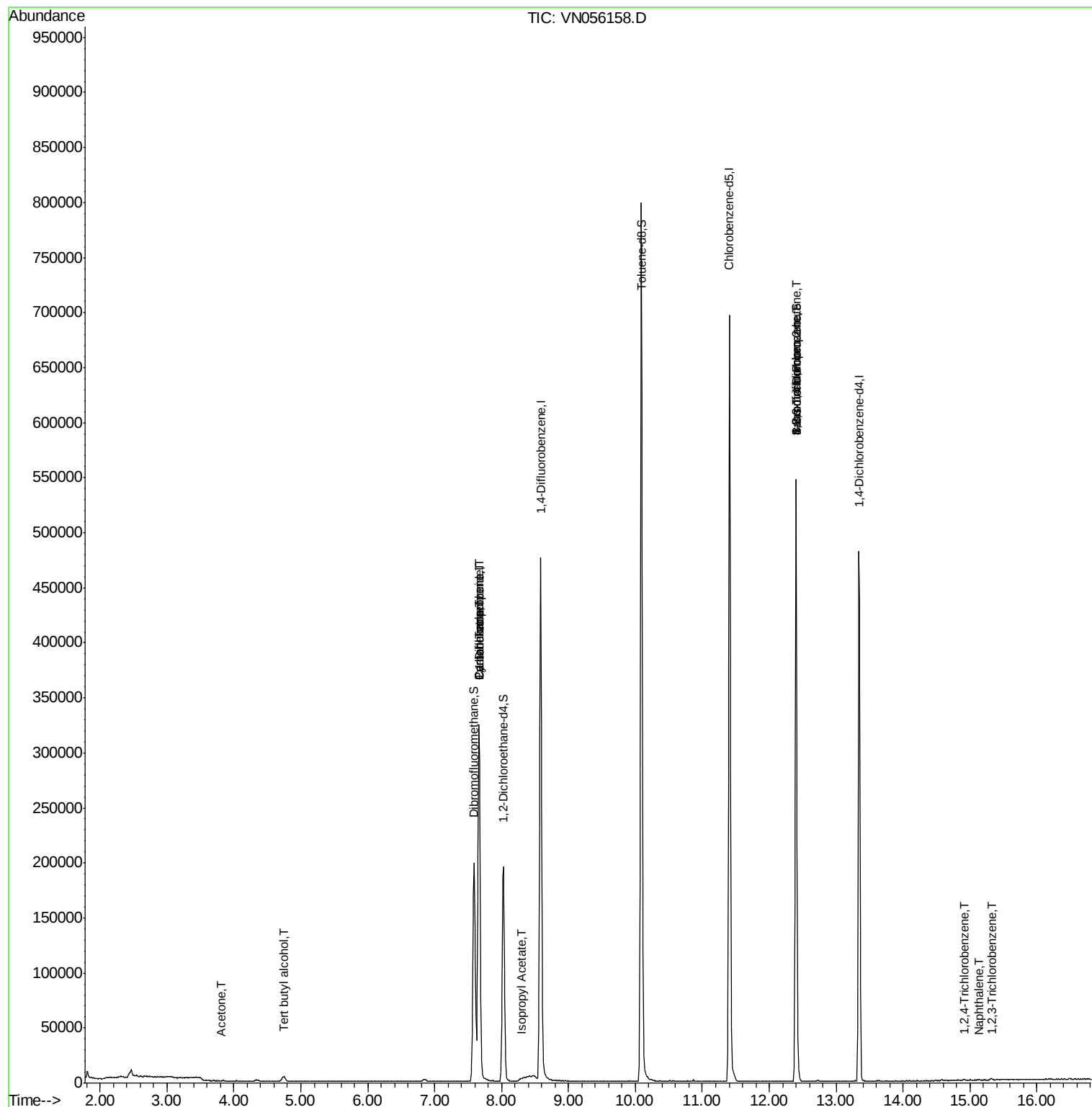
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	4661	8.817	ug/l #	74
16) Acetone	3.82	43	316	0.217	ug/l #	41
18) Methyl Acetate	4.32	43	1330	Below Cal	#	90
31) Cyclohexane	7.67	56	4474	0.928	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18141	4.450	ug/l #	48
38) Carbon Tetrachloride	7.66	117	24727	6.579	ug/l #	15
43) Isopropyl Acetate	8.29	43	2622	0.446	ug/l #	53
71) Bromoform	12.40	173	1353	3.227	ug/l #	1
73) Isopropylbenzene	12.24	105	288	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	88867	32.784	ug/l #	100
79) 2-Chlorotoluene	12.67	91	93	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	88867	109.176	ug/l #	15
83) tert-Butylbenzene	12.99	119	96	Below Cal	#	28
93) 1,2,4-Trichlorobenzene	14.91	180	852	4.557	ug/l #	70
95) Naphthalene	15.14	128	1494	4.047	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	825	3.311	ug/l #	85

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056158.D

Acq: 10 Jun 2019 10:21

Instrument :

MSVOA_N

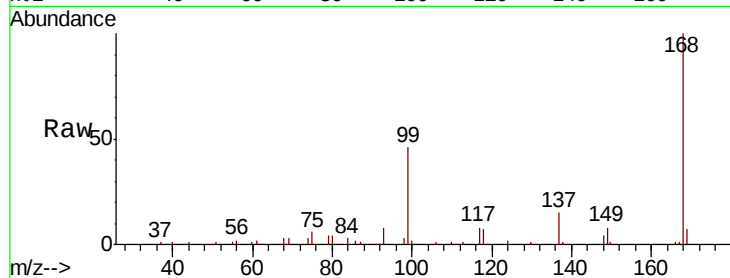
ClientSampleId :

Tot Ion:168 Resp: 305954

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

7.66

150000

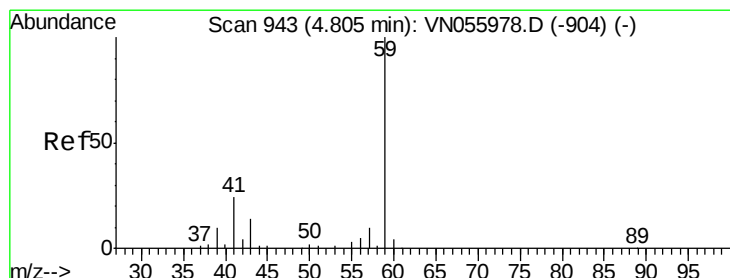
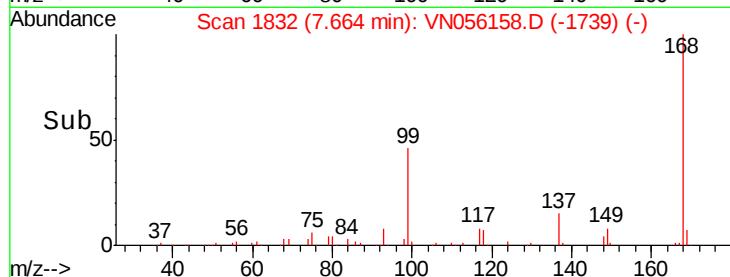
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 8.817 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056158.D

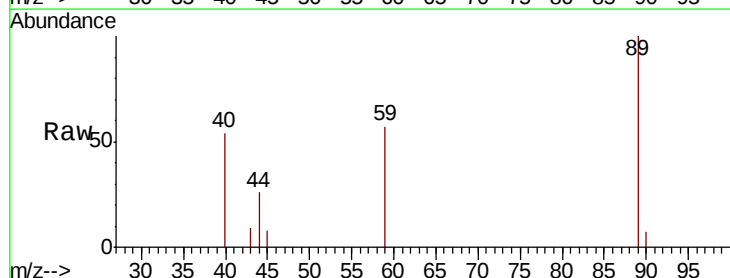
Acq: 10 Jun 2019 10:21

Tgt Ion: 59 Resp: 4661

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

1500

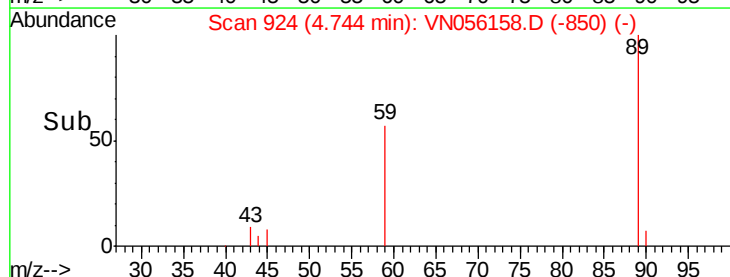
1000

500

0

Time-->

4.65 4.70 4.75 4.80

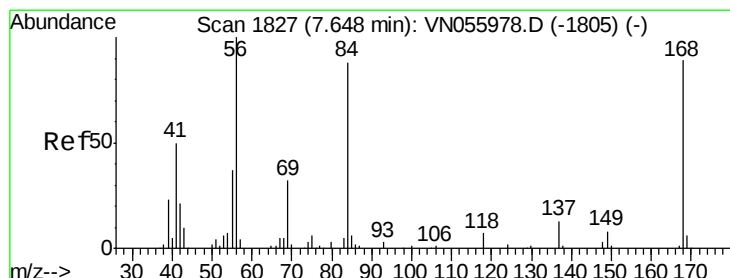
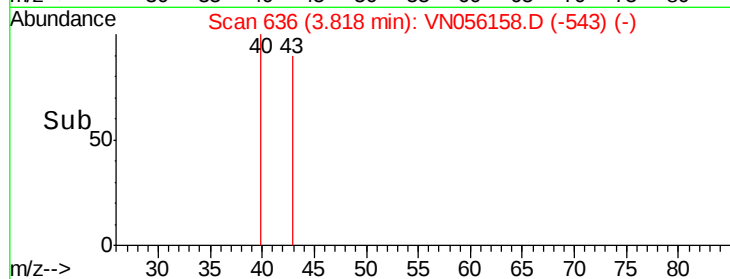
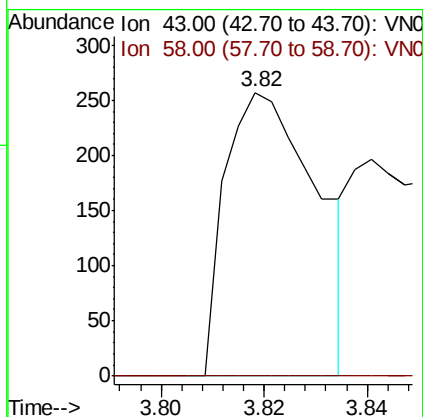
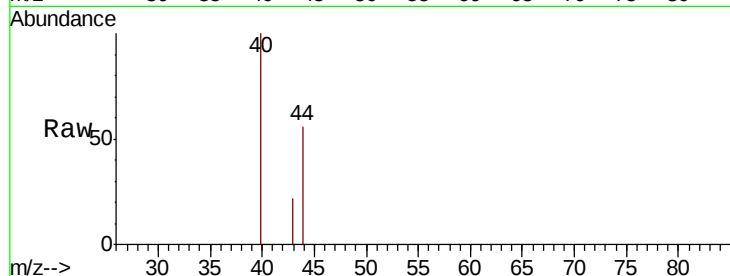




#16
Acetone
Concen: 0.217 ug/l
RT: 3.82 min Scan# 636
Delta R.T. -0.00 min
Lab File: VN056158.D
Acq: 10 Jun 2019 10:21

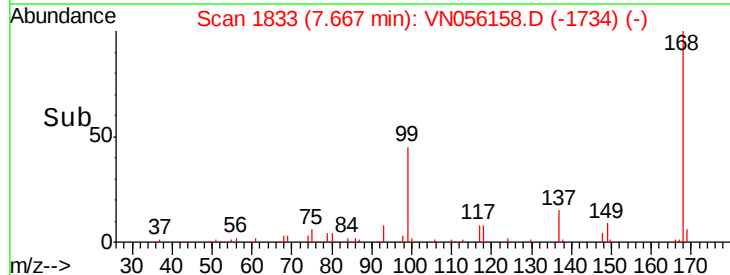
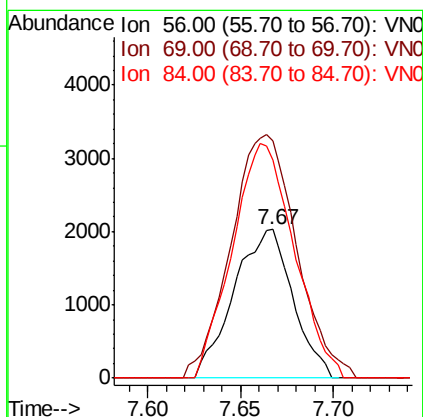
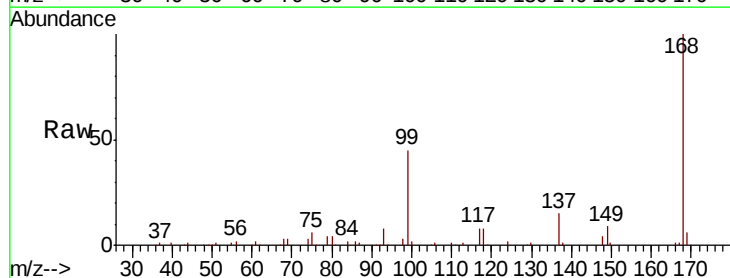
Instrument :
MSVOA_N
ClientSampleId :

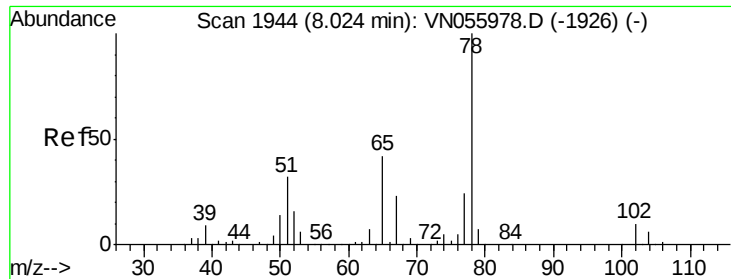
Tot Ion: 43 Resp: 316
Ion Ratio Lower Upper
43 100
58 0.0 26.6 39.8#



#31
Cyclohexane
Concen: 0.928 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN056158.D
Acq: 10 Jun 2019 10:21

Tgt Ion: 56 Resp: 4474
Ion Ratio Lower Upper
56 100
69 151.0 25.6 38.4#
84 146.9 67.4 101.0#

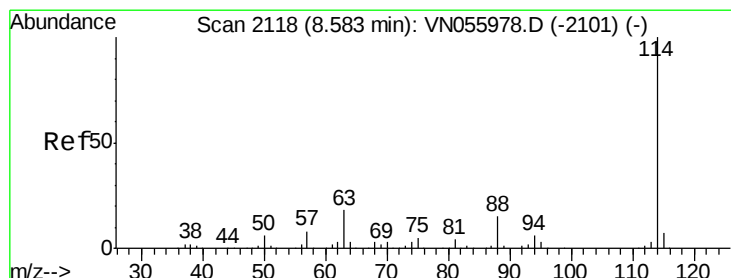
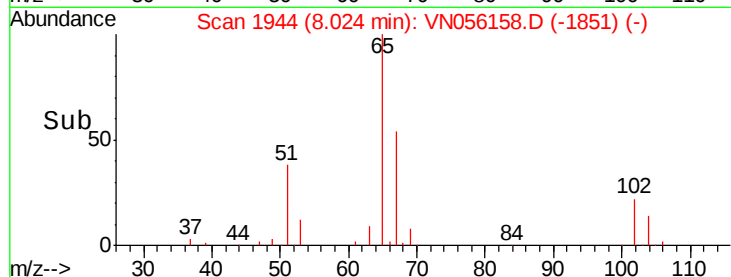
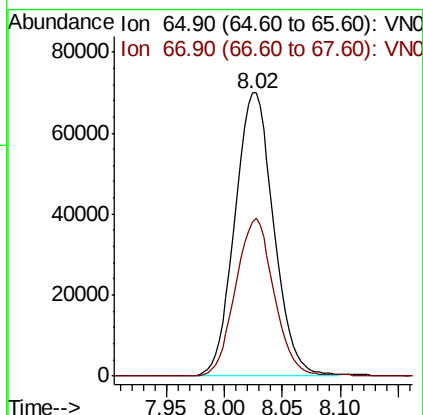
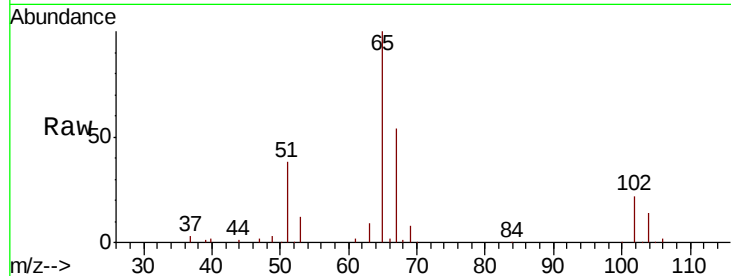




#33
 1,2-Dichloroethane-d4
 Concen: 53.829 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN056158.D
 Acq: 10 Jun 2019 10:21

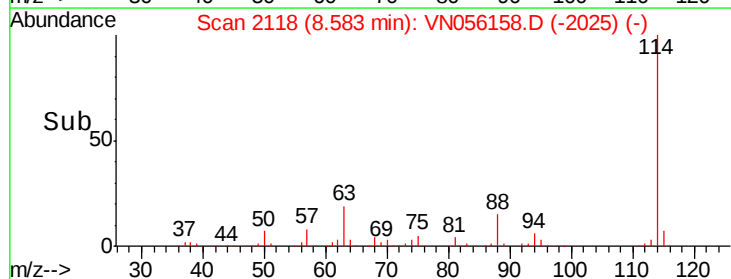
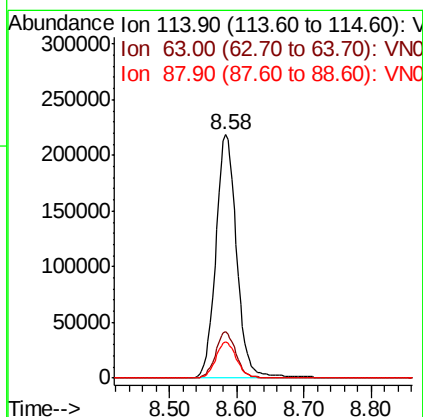
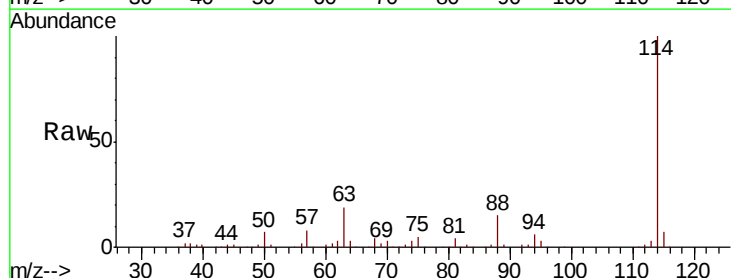
Instrument :
 MSVOA_N
 ClientSampleId :

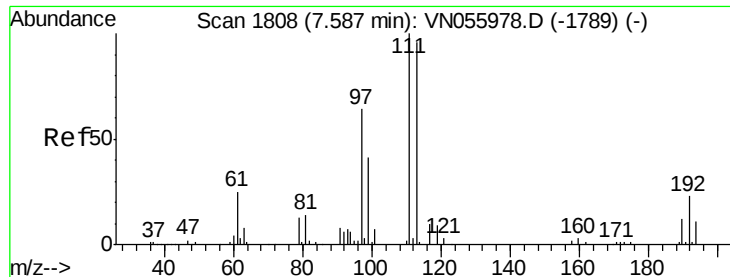
Tot Ion: 65 Resp: 163525
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056158.D
 Acq: 10 Jun 2019 10:21

Tgt Ion: 114 Resp: 474078
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 14.7 0.0 31.0





#35

Dibromofluoromethane

Concen: 51.851 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056158.D

Acq: 10 Jun 2019 10:21

Instrument :

MSVOA_N

ClientSampleId :

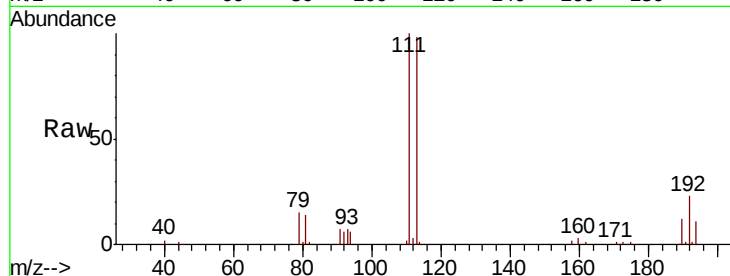
Tot Ion:113 Resp: 150816

Ion Ratio Lower Upper

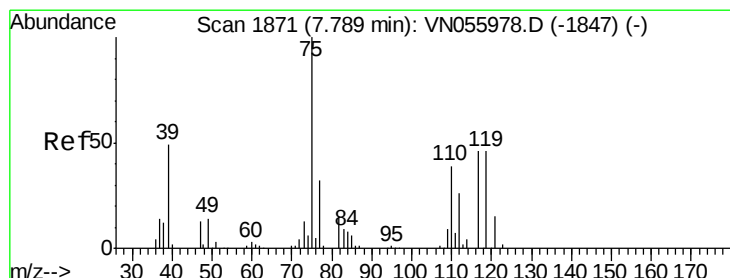
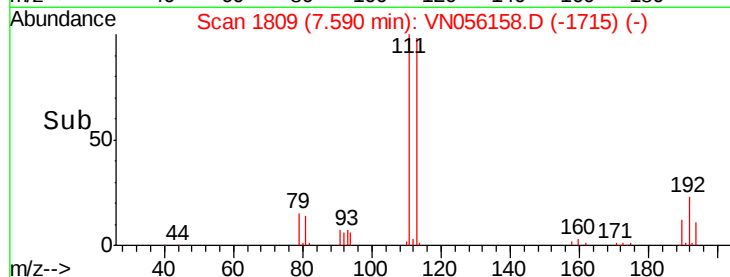
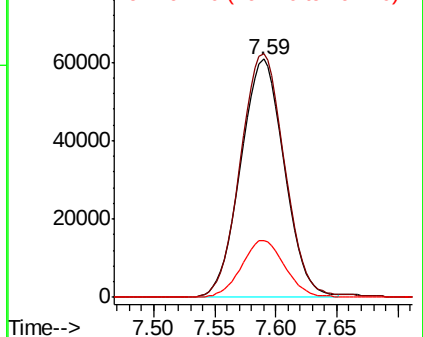
113 100

111 104.2 81.9 122.9

192 23.9 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: 4.450 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056158.D

Acq: 10 Jun 2019 10:21

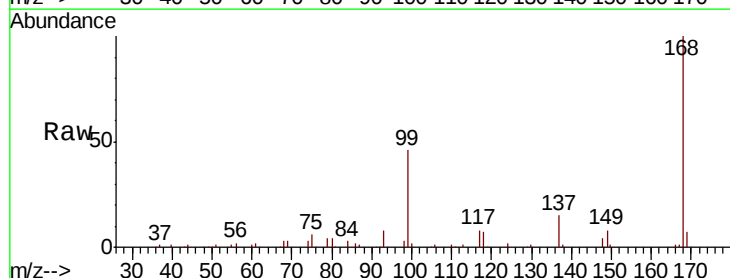
Tgt Ion: 75 Resp: 18141

Ion Ratio Lower Upper

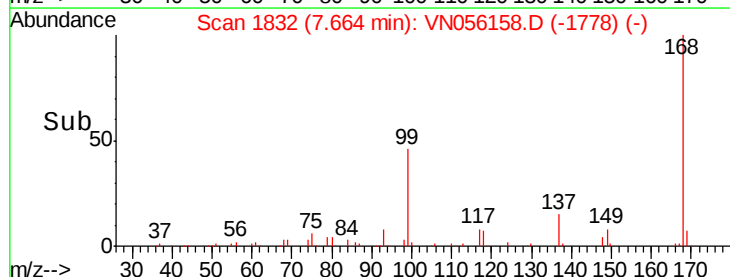
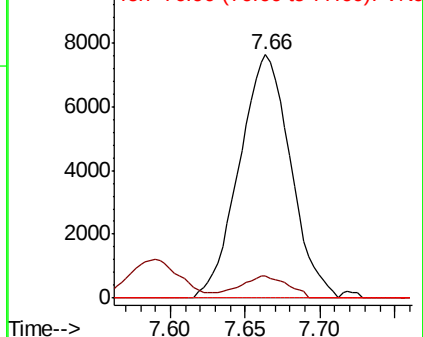
75 100

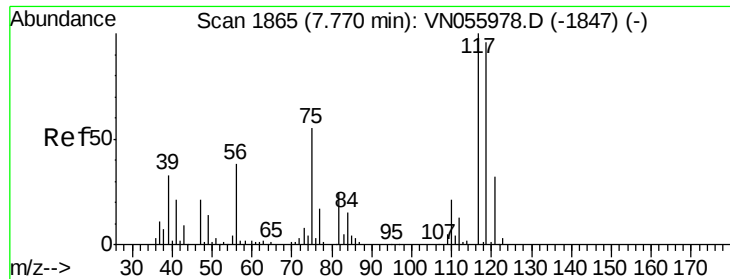
110 8.6 19.0 57.0#

77 0.0 25.1 37.7#



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





#38

Carbon Tetrachloride

Concen: 6.579 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN056158.D

Acq: 10 Jun 2019 10:21

Instrument :

MSVOA_N

ClientSampled :

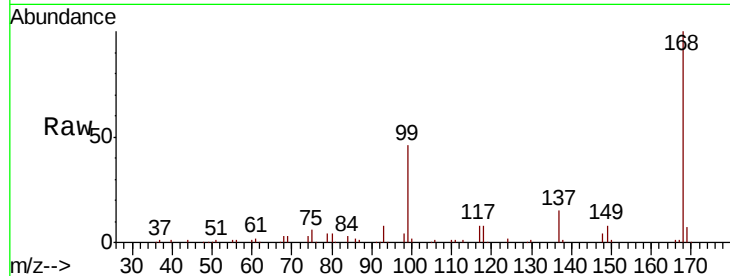
Tot Ion:117 Resp: 24727

Ion Ratio Lower Upper

117 100

119 5.2 79.0 118.6#

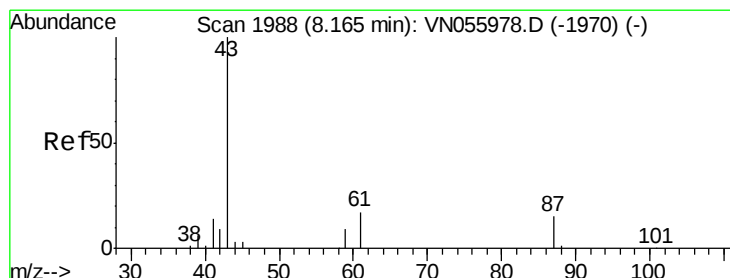
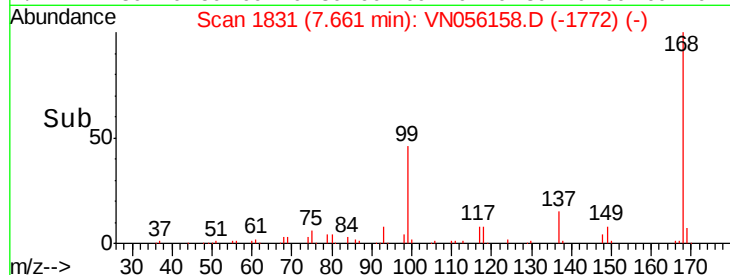
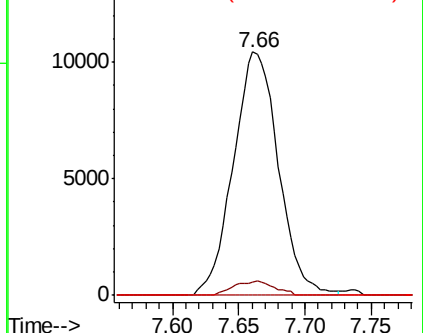
121 0.0 24.7 37.1#



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: 0.446 ug/l

RT: 8.29 min Scan# 2026

Delta R.T. 0.12 min

Lab File: VN056158.D

Acq: 10 Jun 2019 10:21

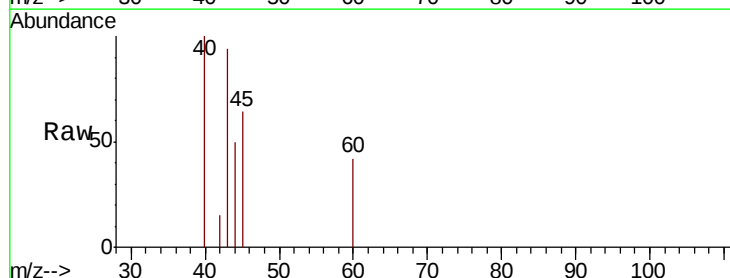
Tgt Ion: 43 Resp: 2622

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

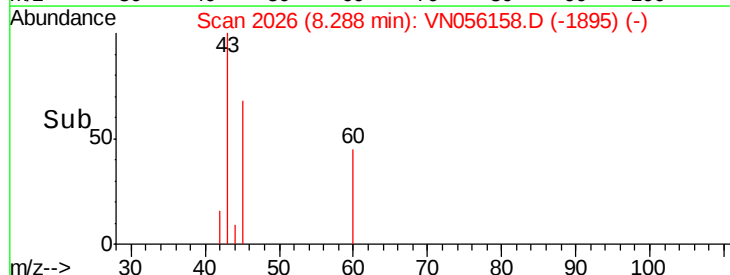
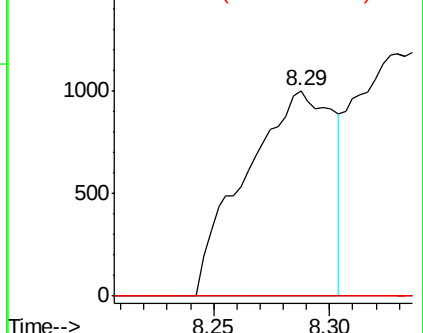
87 0.0 11.4 17.2#

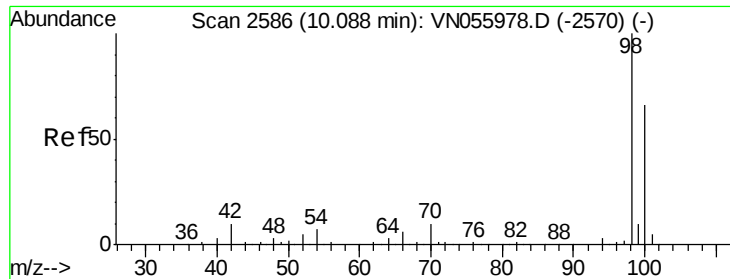


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 53.679 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056158.D

Acq: 10 Jun 2019 10:21

Instrument :

MSVOA_N

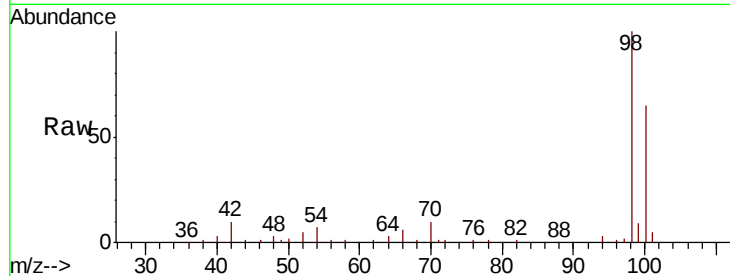
ClientSampleId :

Tot Ion: 98 Resp: 600799

Ion Ratio Lower Upper

98 100

100 63.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

300000

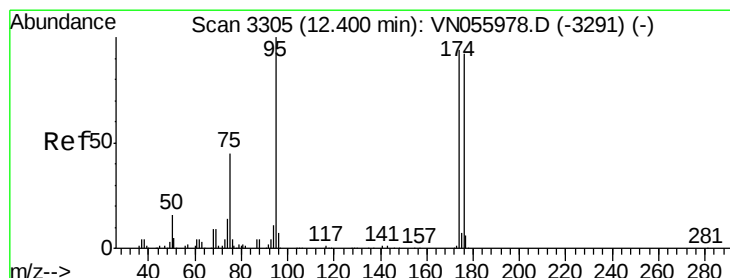
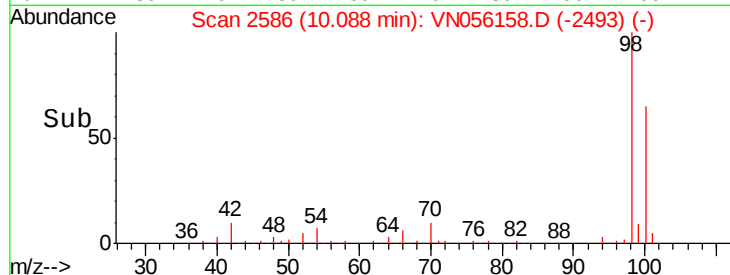
200000

100000

0

Time-->

10.00 10.20



#62

4-Bromofluorobenzene

Concen: 50.499 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056158.D

Acq: 10 Jun 2019 10:21

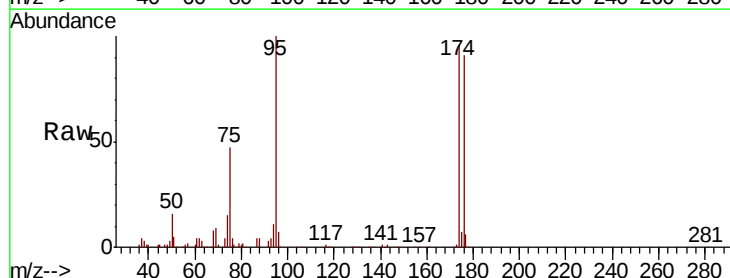
Tgt Ion: 95 Resp: 192212

Ion Ratio Lower Upper

95 100

174 96.1 0.0 191.0

176 93.0 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

12.40

150000

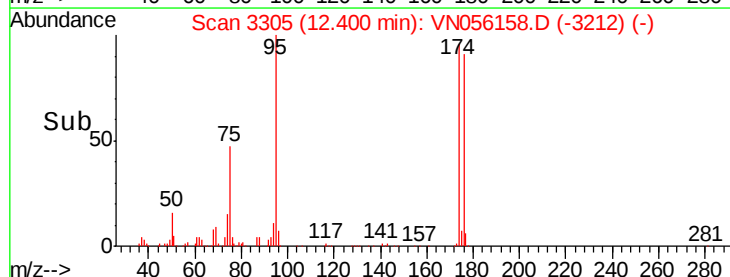
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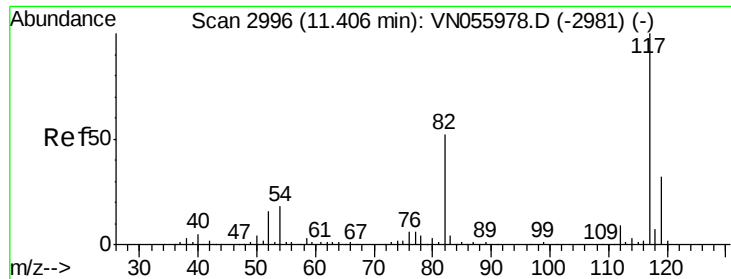
50000

0

Time-->

12.30 12.40 12.50

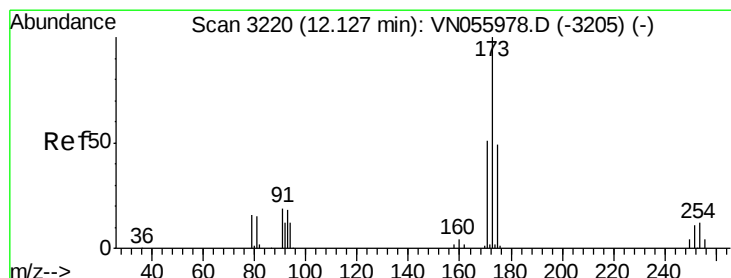
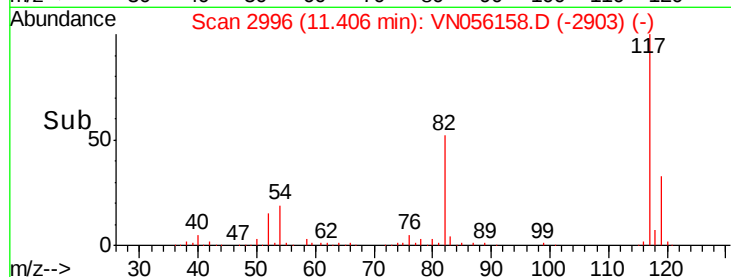
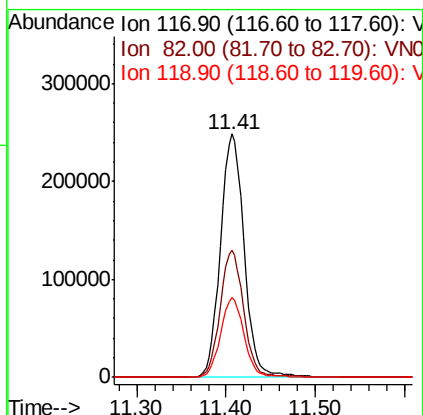
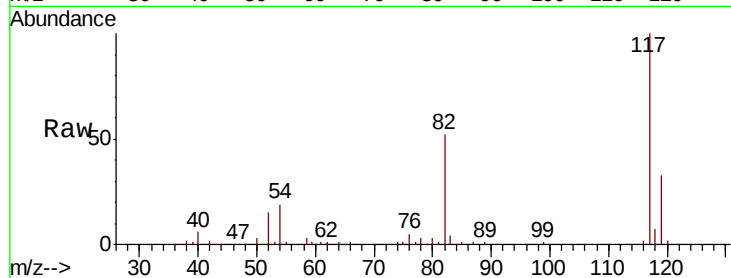




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056158.D
Acq: 10 Jun 2019 10:21

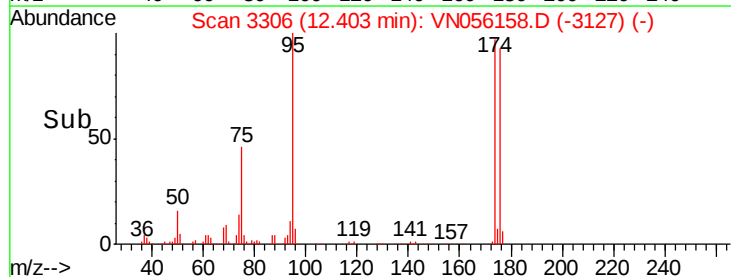
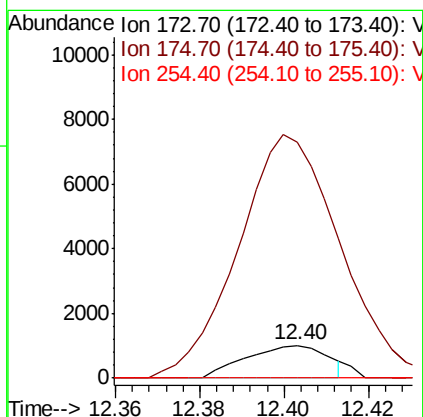
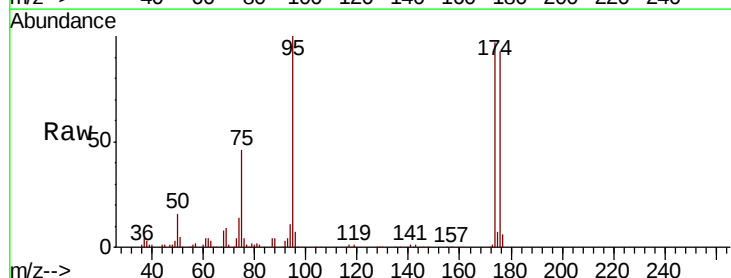
Instrument :
MSVOA_N
ClientSampleId :

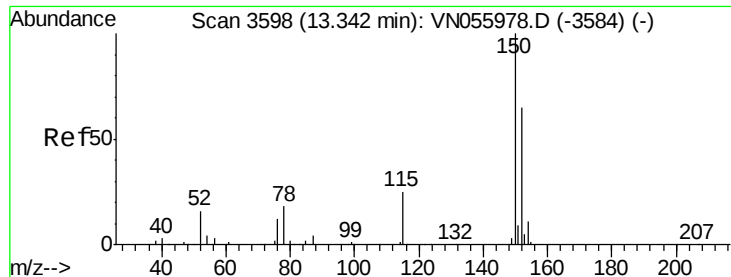
Tot Ion:117 Resp: 457475
Ion Ratio Lower Upper
117 100
82 52.4 41.8 62.8
119 32.9 25.4 38.0



#71
Bromoform
Concen: 3.227 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056158.D
Acq: 10 Jun 2019 10:21

Tgt Ion:173 Resp: 1353
Ion Ratio Lower Upper
173 100
175 809.4 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN056158.D

Acq: 10 Jun 2019 10:21

Instrument :

MSVOA_N

ClientSampleId :

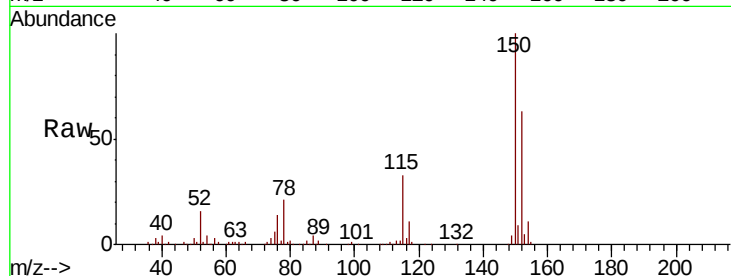
Tot Ion:152 Resp: 147317

Ion Ratio Lower Upper

152 100

115 53.3 27.0 81.0

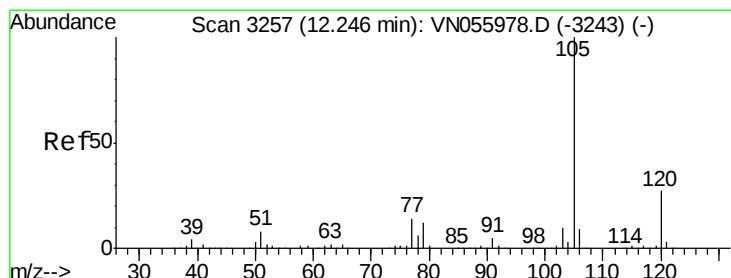
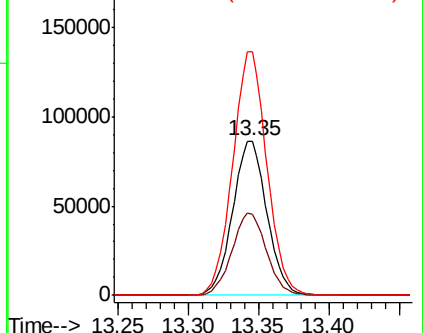
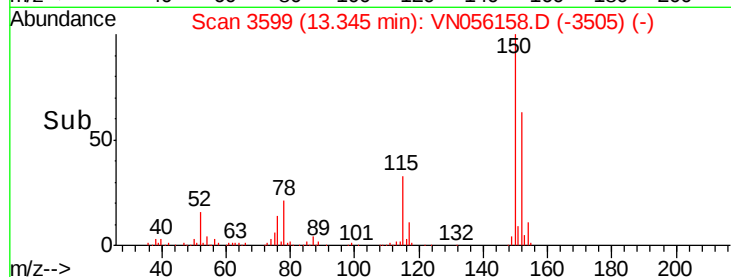
150 157.1 0.0 343.2



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: 12.24 min Scan# 3256

Delta R.T. -0.00 min

Lab File: VN056158.D

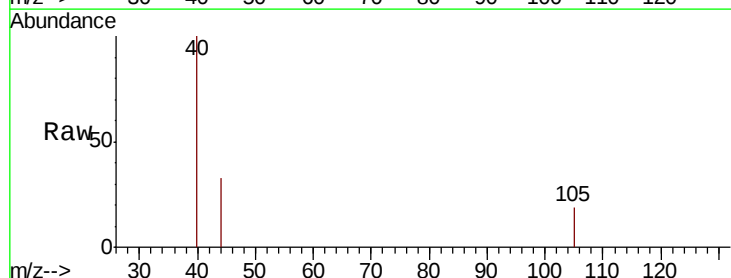
Acq: 10 Jun 2019 10:21

Tgt Ion:105 Resp: 288

Ion Ratio Lower Upper

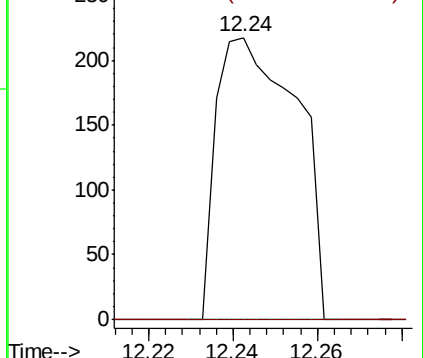
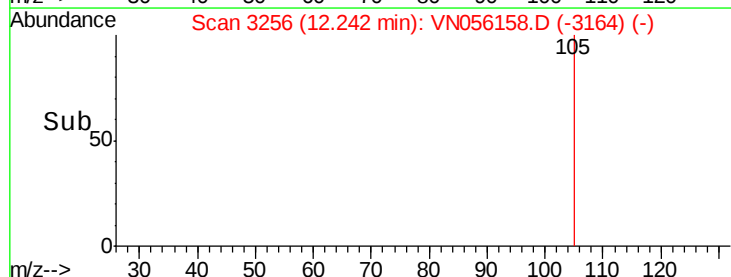
105 100

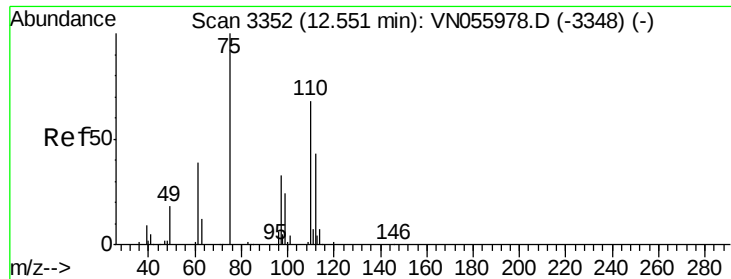
120 0.0 13.6 40.7#



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: 32.784 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056158.D

Acq: 10 Jun 2019 10:21

Instrument :

MSVOA_N

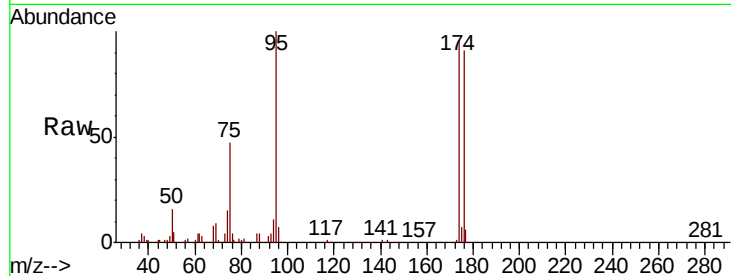
ClientSampled :

Tot Ion: 75 Resp: 88867

Ion Ratio Lower Upper

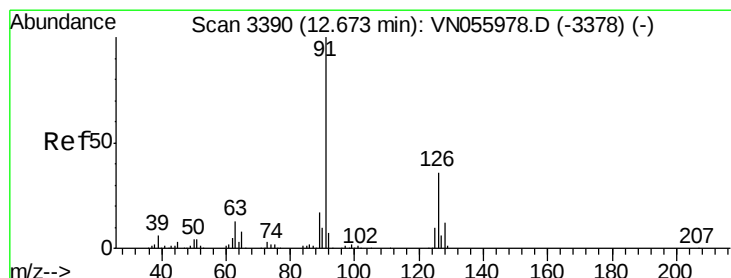
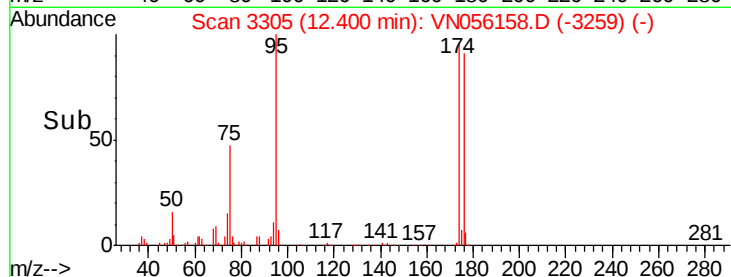
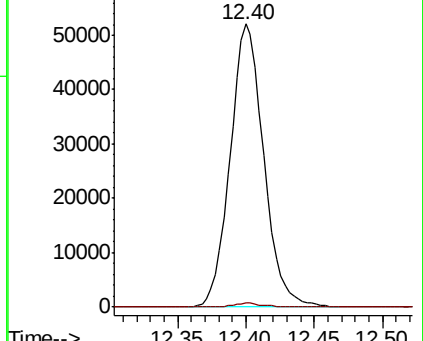
75 100

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



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VN056158.D

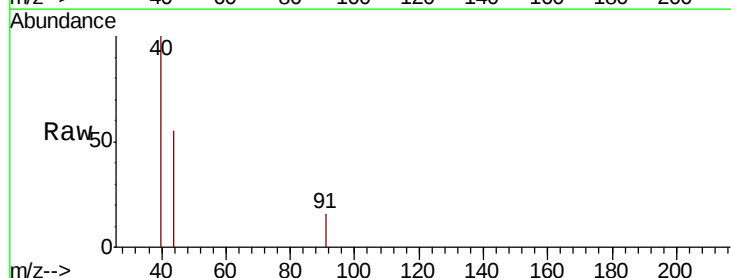
Acq: 10 Jun 2019 10:21

Tgt Ion: 91 Resp: 93

Ion Ratio Lower Upper

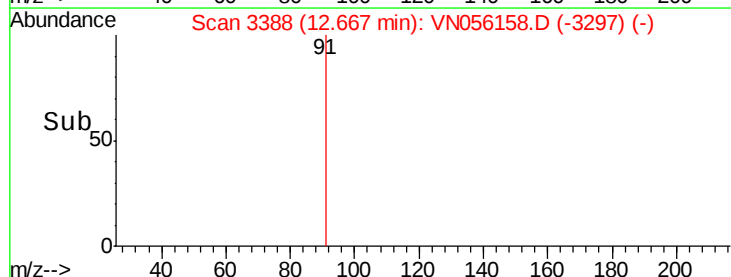
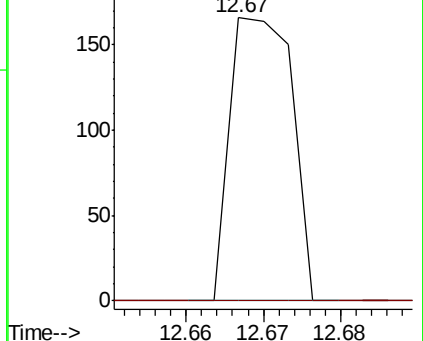
91 100

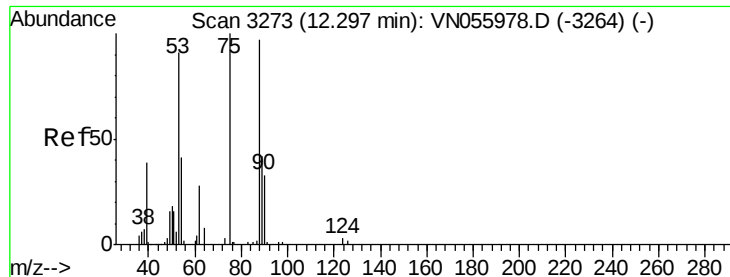
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 109.176 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056158.D

Acq: 10 Jun 2019 10:21

Instrument :

MSVOA_N

ClientSampleId :

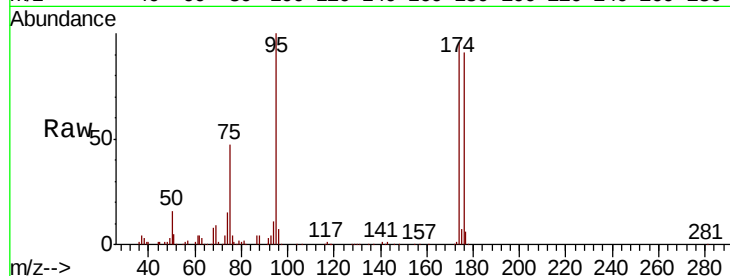
Tot Ion: 75 Resp: 88867

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

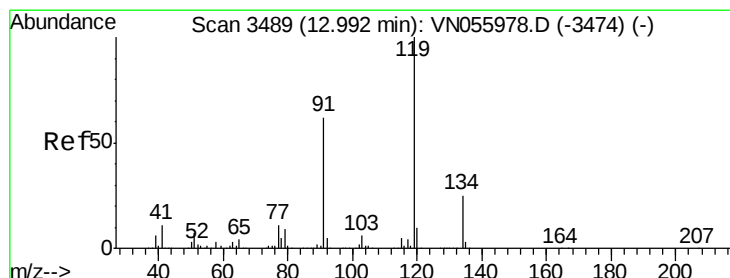
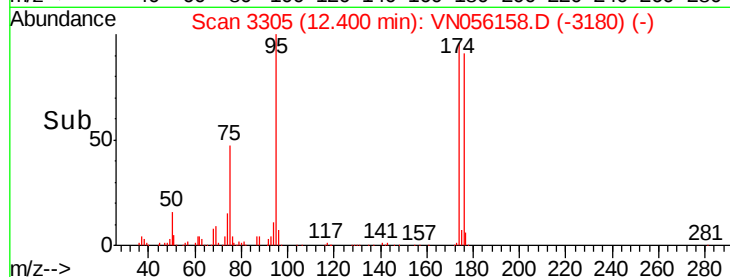
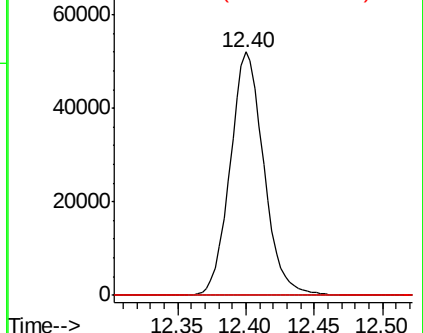
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN056158.D

Acq: 10 Jun 2019 10:21

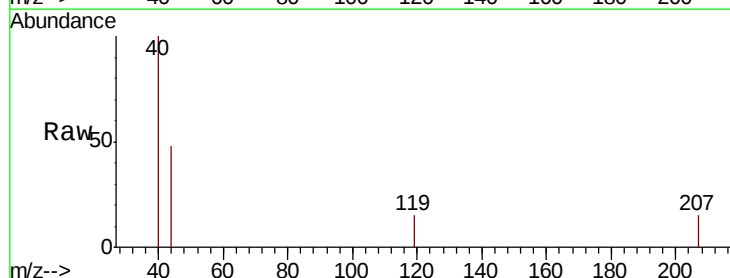
Tgt Ion: 119 Resp: 96

Ion Ratio Lower Upper

119 100

91 0.0 30.9 92.8#

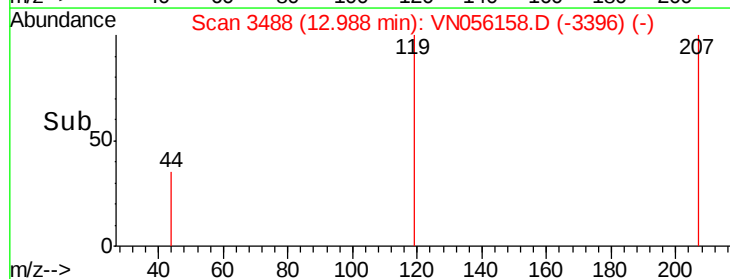
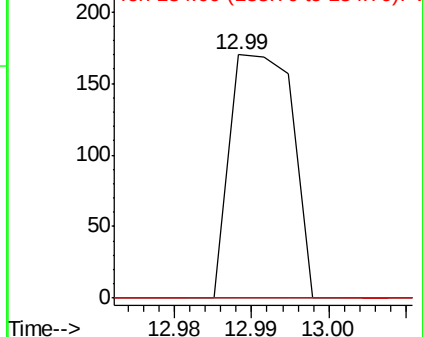
134 0.0 13.3 39.8#

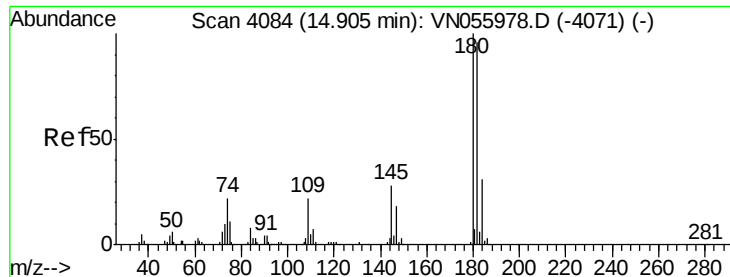


Abundance Ion 119.00 (118.70 to 119.70): VN055978.D (-3474) (-)

Ion 91.00 (90.70 to 91.70): VN055978.D (-3474) (-)

Ion 134.00 (133.70 to 134.70): VN055978.D (-3474) (-)

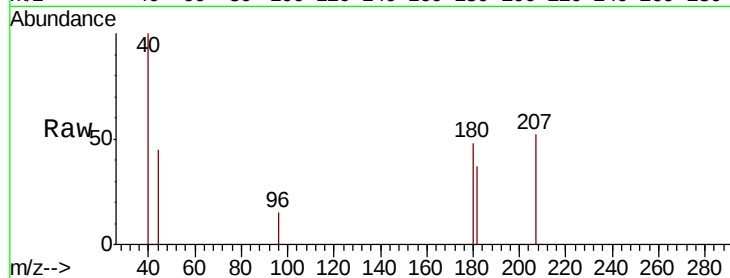




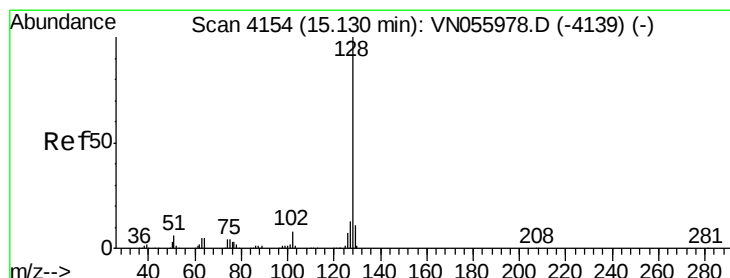
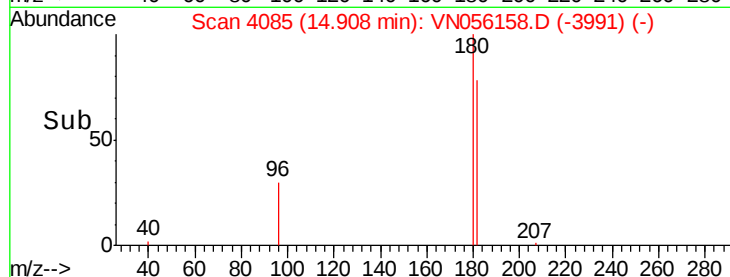
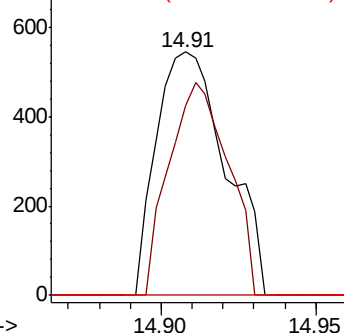
#93
 1,2,4-Trichlorobenzene
 Concen: 4.557 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056158.D
 Acq: 10 Jun 2019 10:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	74.3	48.3	144.9
145	0.0	14.0	41.9#

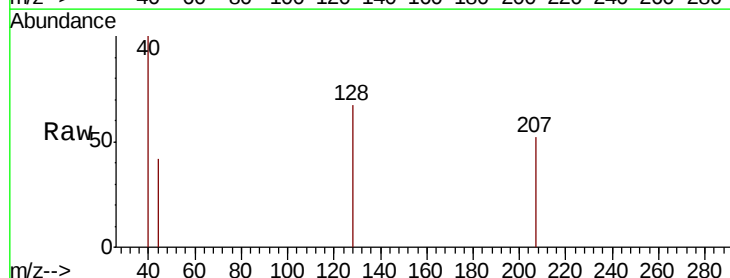


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

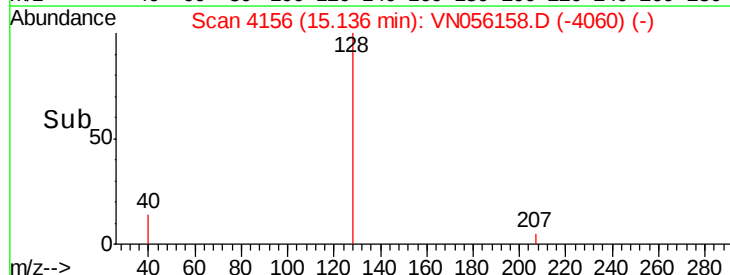
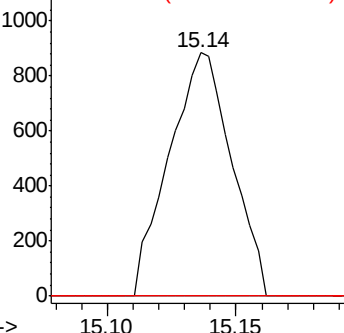


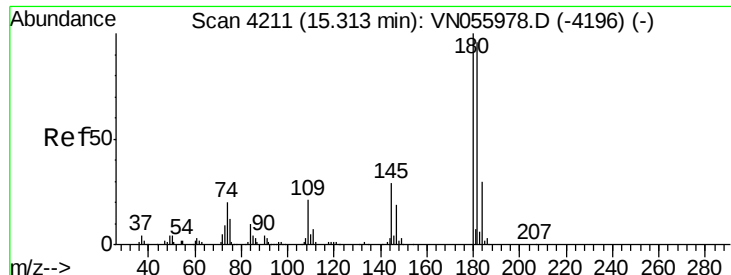
#95
 Naphthalene
 Concen: 4.047 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.01 min
 Lab File: VN056158.D
 Acq: 10 Jun 2019 10:21

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



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





#96
 1,2,3-Trichlorobenzene
 Concen: 3.311 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN056158.D
 Acq: 10 Jun 2019 10:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.2	47.9	143.7
145	7.9	14.9	44.7#

