

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058203.D
 Acq On : 19 Sep 2019 14:31
 Operator : JC/SP
 Sample : K4896-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP03-20190912

Quant Time: Sep 20 01:51:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	484181	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	790272	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	661126	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	261923	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	343358	50.92	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.58	113	238654	49.68	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.08	98	970392	51.84	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.41	95	302842	43.56	ug/l	0.00
Spiked Amount						

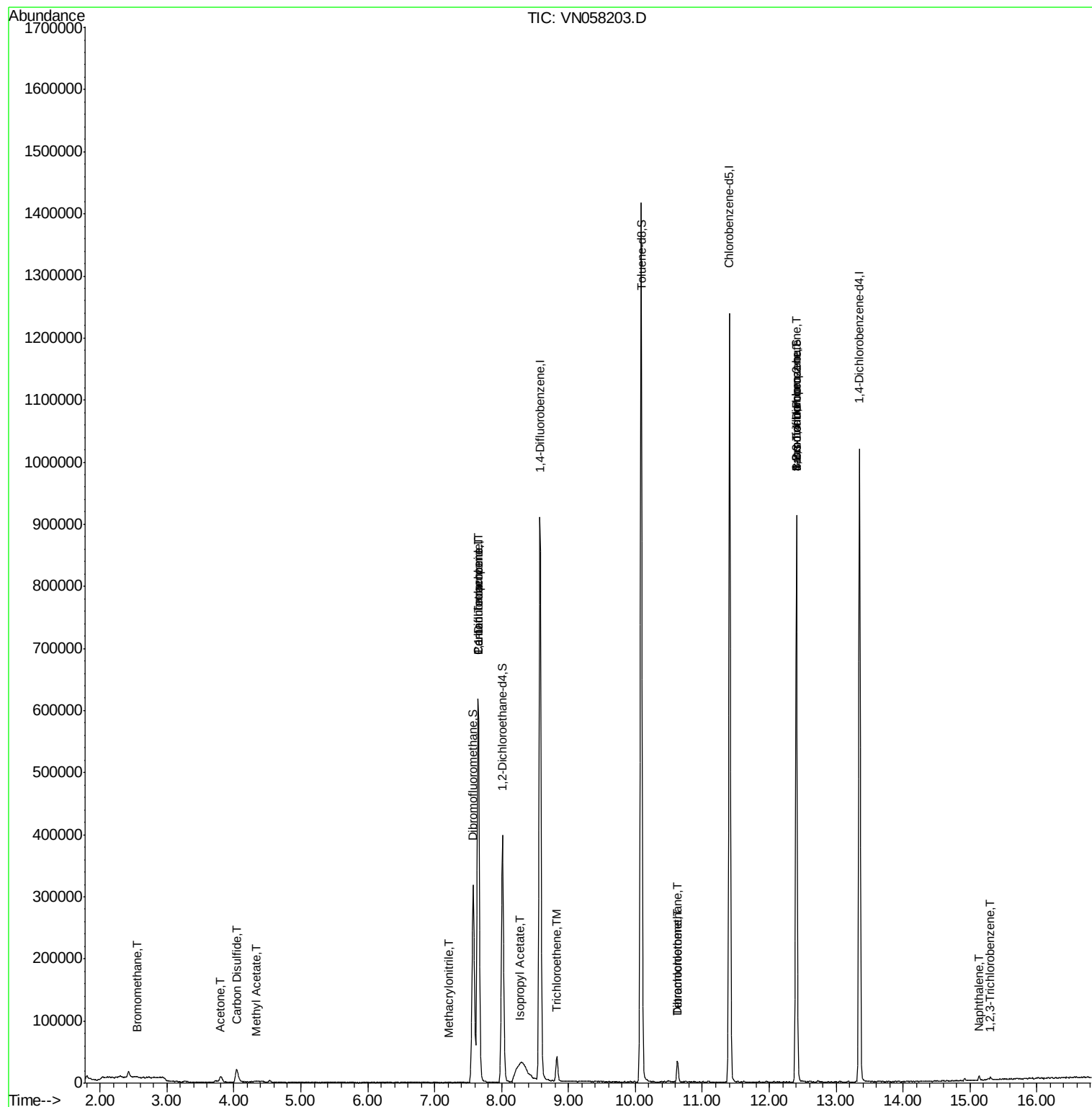
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2329	Below Cal		92
5) Bromomethane	2.55	94	292	0.885 ug/l		88
6) Chloroethane	2.71	64	60	Below Cal	#	44
12) 1,1-Dichloroethene	3.72	96	246	Below Cal	#	47
16) Acetone	3.80	43	16610	7.256 ug/l		95
17) Carbon Disulfide	4.03	76	330	0.349 ug/l	#	74
18) Methyl Acetate	4.32	43	1248	0.207 ug/l	#	77
20) Methylene Chloride	4.52	84	821	Below Cal	#	70
31) Cyclohexane	7.65	56	12504	Below Cal	#	5
36) 1,1-Dichloropropene	7.65	75	41298	7.246 ug/l	#	51
38) Carbon Tetrachloride	7.65	117	49081	8.567 ug/l	#	14
41) Methacrylonitrile	7.21	41	66	0.933 ug/l	#	100
43) Isopropyl Acetate	8.26	43	40496	3.666 ug/l	#	57
44) Trichloroethene	8.82	130	13639	3.202 ug/l		98
60) Dibromochloromethane	10.63	129	6460	1.387 ug/l	#	11
64) Tetrachloroethene	10.63	164	7341	2.278 ug/l		94
71) Bromoform	12.41	173	976	3.885 ug/l	#	1
76) 1,2,3-Trichloropropane	12.41	75	168426	35.930 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.41	75	168426	100.356 ug/l	#	5
95) Naphthalene	15.13	128	5860	0.468 ug/l	#	94
96) 1,2,3-Trichlorobenzene	15.30	180	1266	0.277 ug/l		88

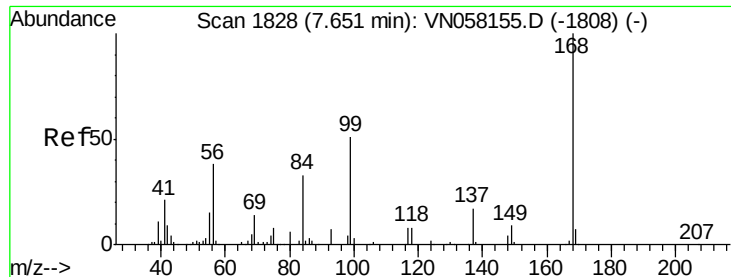
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058203.D

Acq: 19 Sep 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

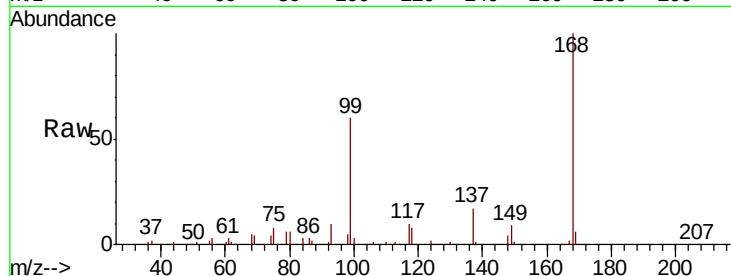
DUP03-20190912

Tot Ion:168 Resp: 484181

Ion Ratio Lower Upper

168 100

99 59.7 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

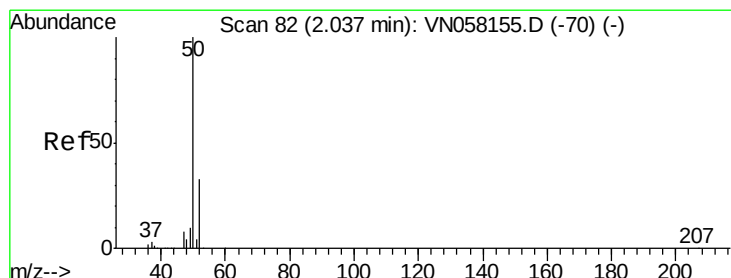
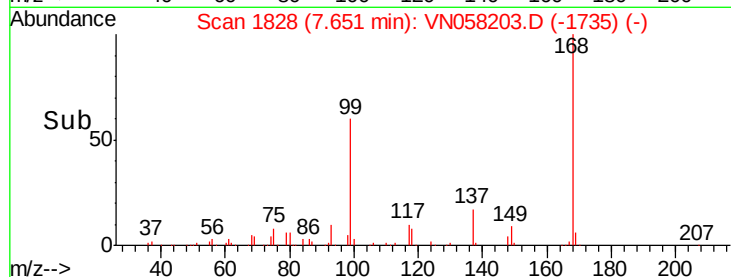
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058203.D

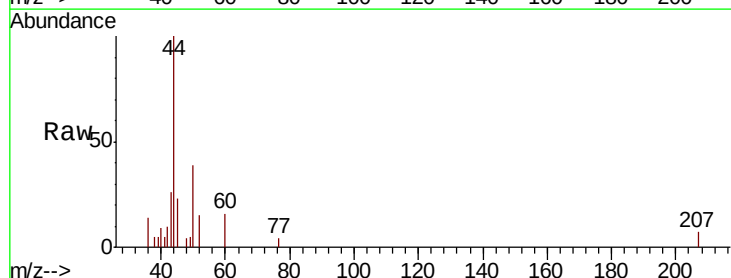
Acq: 19 Sep 2019 14:31

Tgt Ion: 50 Resp: 2329

Ion Ratio Lower Upper

50 100

52 37.6 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

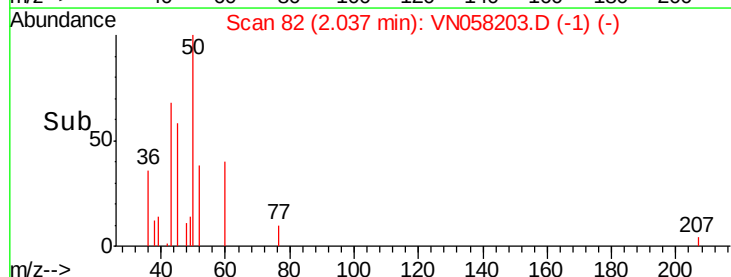
1500

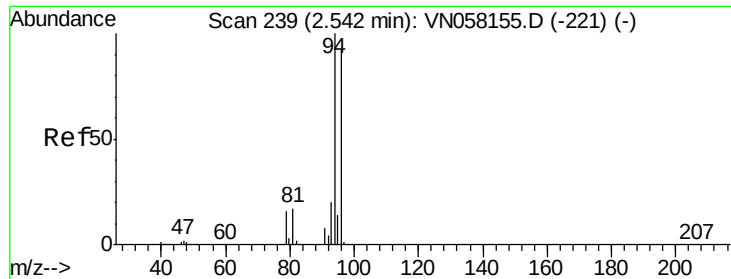
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.885 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058203.D

Acq: 19 Sep 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

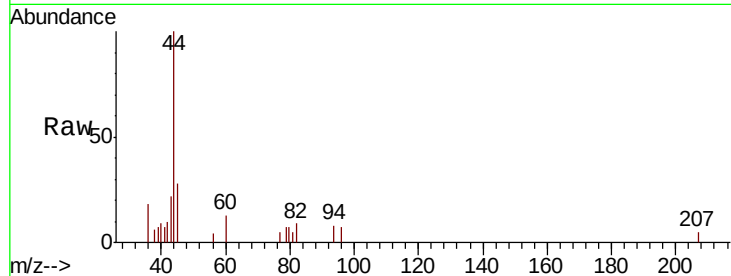
DUP03-20190912

Tot Ion: 94 Resp: 292

Ion Ratio Lower Upper

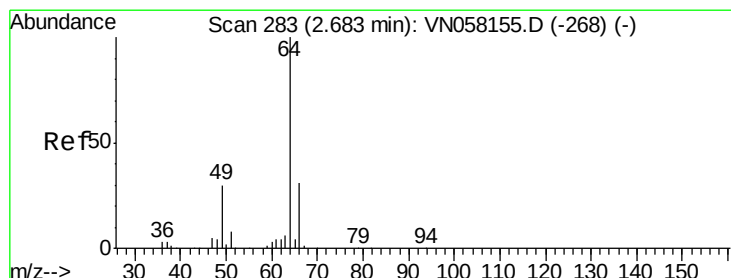
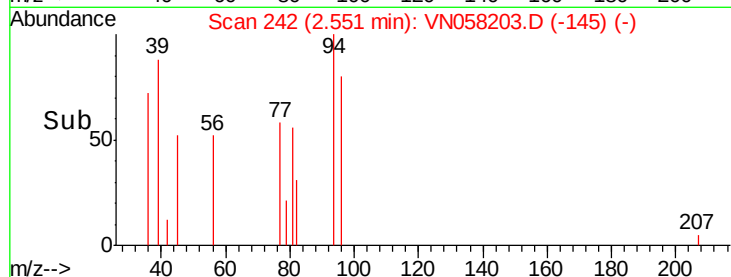
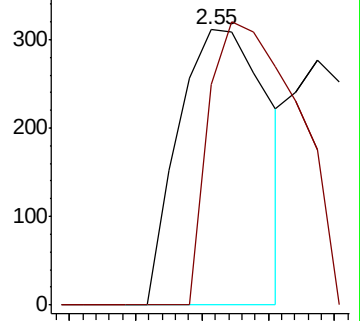
94 100

96 80.4 73.3 109.9



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.71 min Scan# 290

Delta R.T. 0.02 min

Lab File: VN058203.D

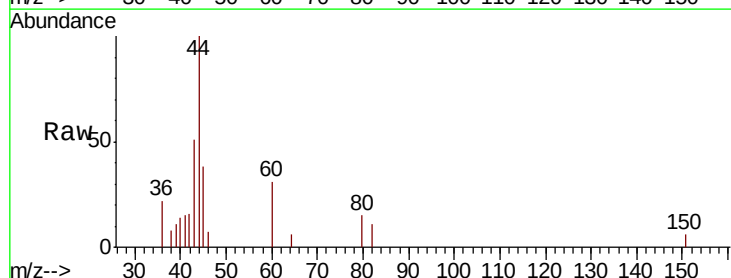
Acq: 19 Sep 2019 14:31

Tgt Ion: 64 Resp: 60

Ion Ratio Lower Upper

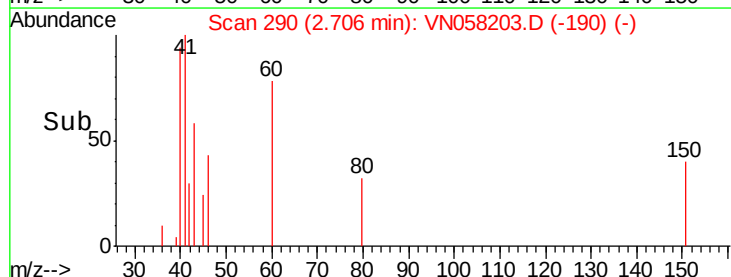
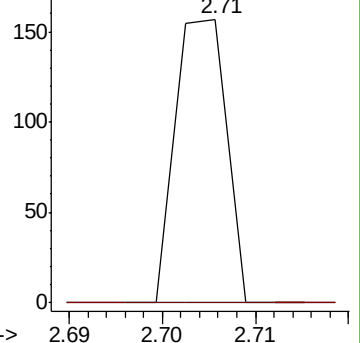
64 100

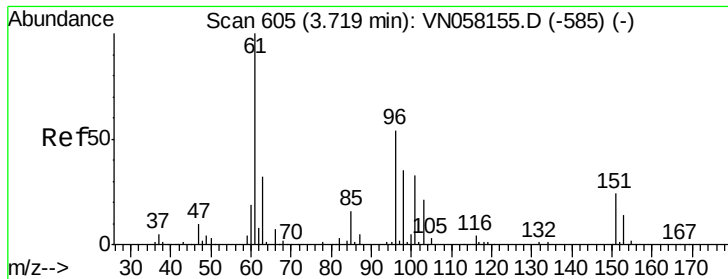
66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#12

1,1-Dichloroethene

Concen: Below Cal

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN058203.D

Acq: 19 Sep 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

DUP03-20190912

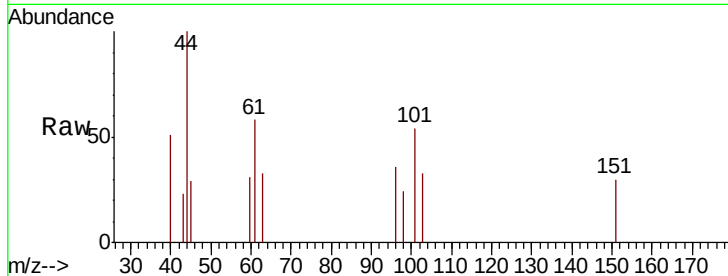
Tot Ion: 96 Resp: 246

Ion Ratio Lower Upper

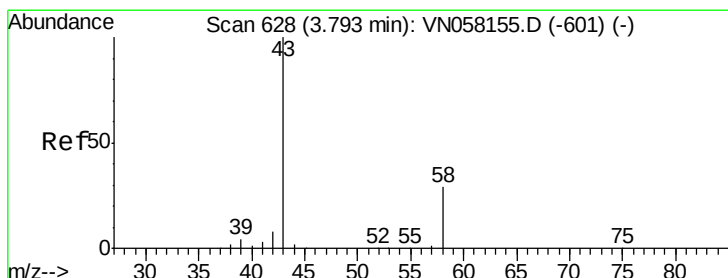
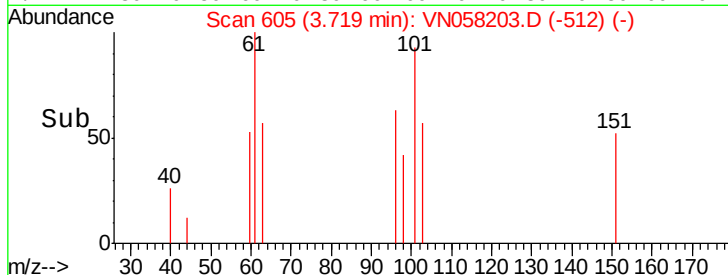
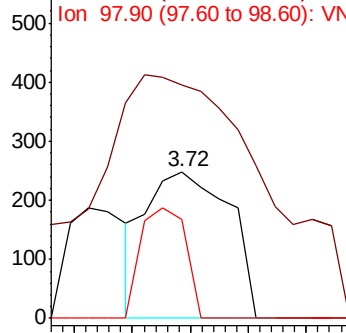
96 100

61 83.1 149.5 224.3#

98 67.1 52.4 78.6



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#16

Acetone

Concen: 7.256 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058203.D

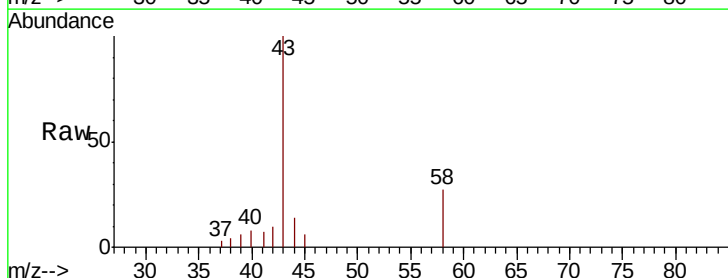
Acq: 19 Sep 2019 14:31

Tgt Ion: 43 Resp: 16610

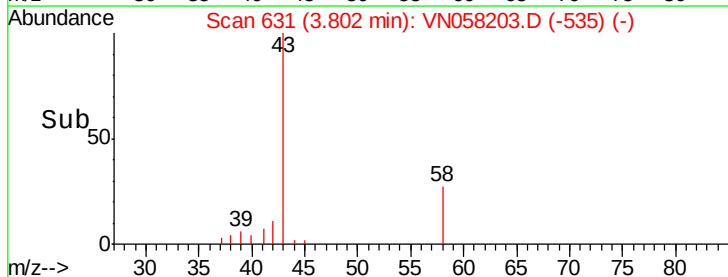
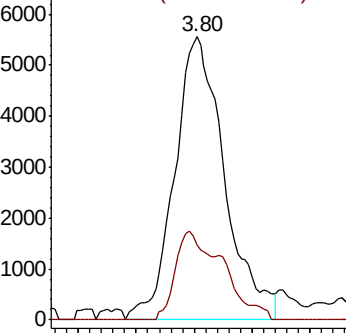
Ion Ratio Lower Upper

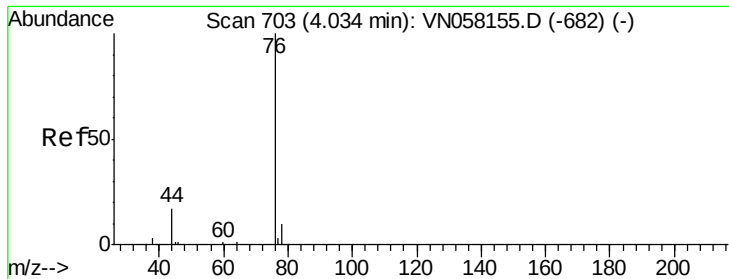
43 100

58 26.6 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#17

Carbon Disulfide

Concen: 0.349 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058203.D

Acq: 19 Sep 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

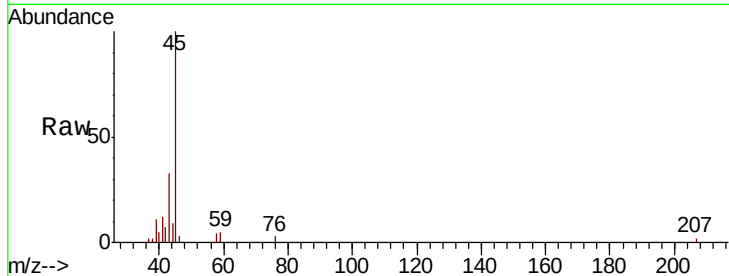
DUP03-20190912

Tot Ion: 76 Resp: 330

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

300

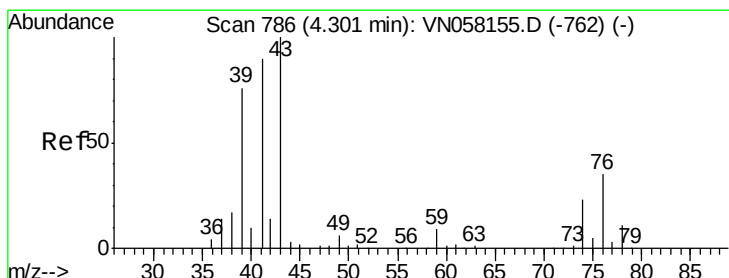
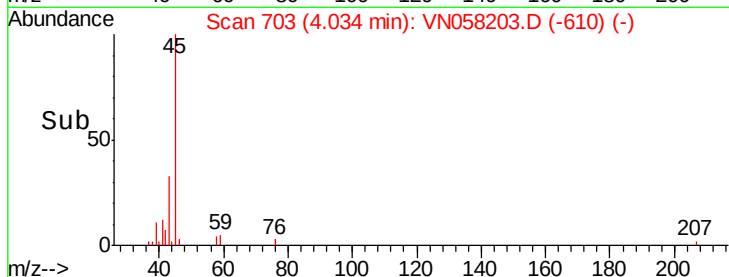
200

100

0

4.02 4.04 4.06

Time-->



#18

Methyl Acetate

Concen: 0.207 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.02 min

Lab File: VN058203.D

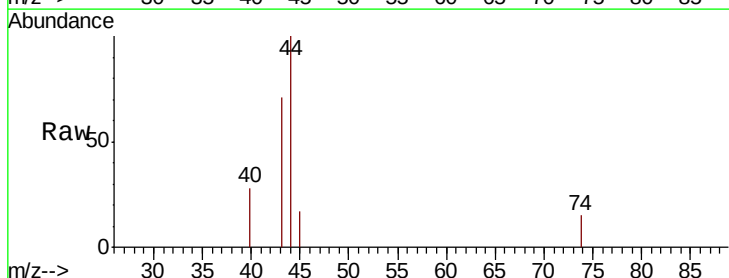
Acq: 19 Sep 2019 14:31

Tgt Ion: 43 Resp: 1248

Ion Ratio Lower Upper

43 100

74 11.5 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.32

1200

1000

800

600

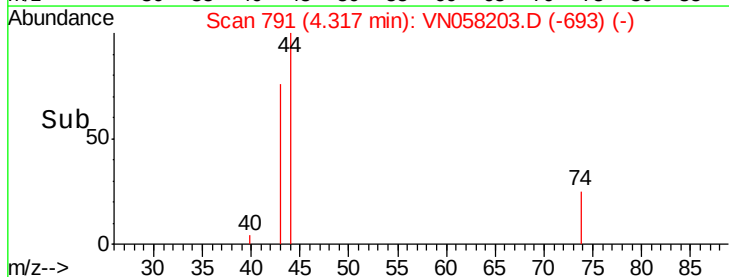
400

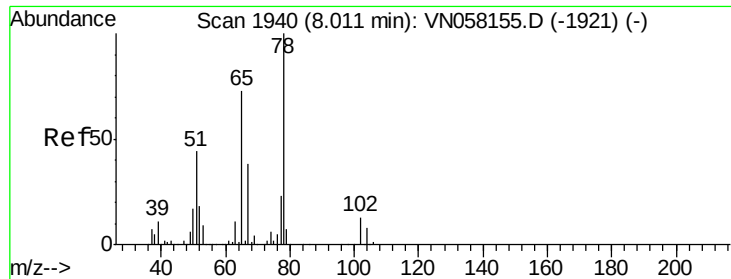
200

0

4.28 4.30 4.32 4.34

Time-->

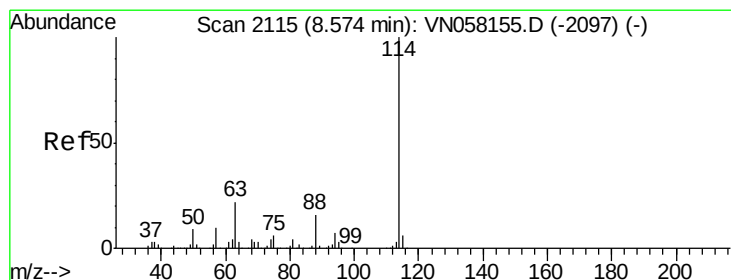
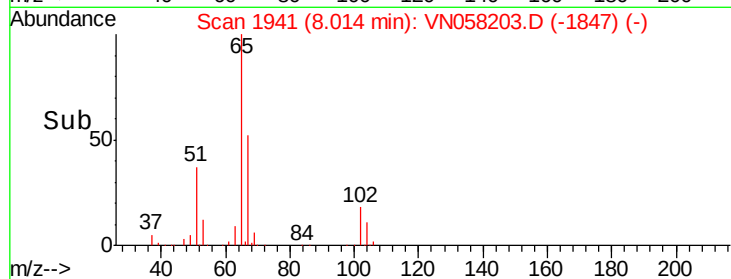
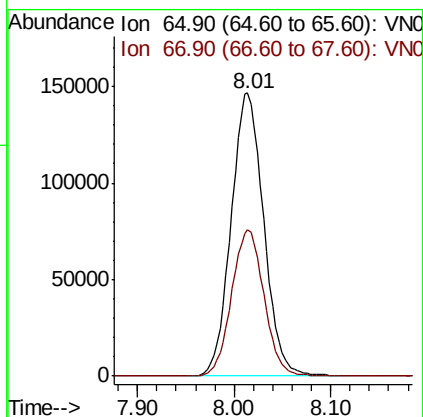
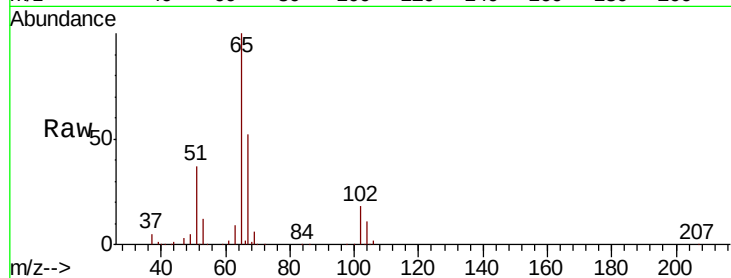




#33
 1,2-Dichloroethane-d4
 Concen: 50.916 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058203.D
 Acq: 19 Sep 2019 14:31

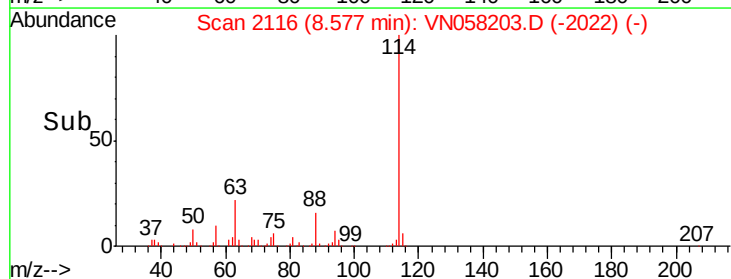
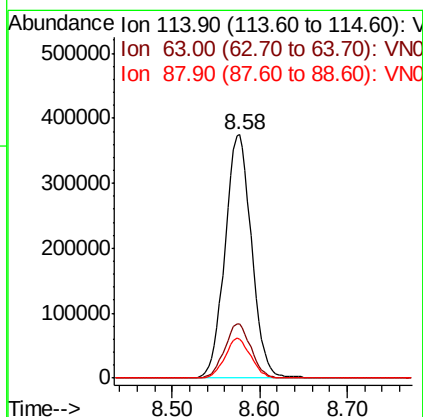
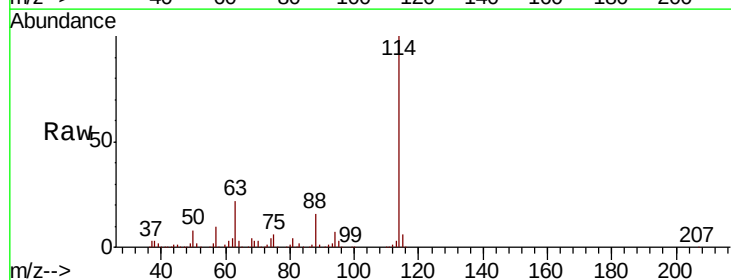
Instrument :
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 DUP03-20190912

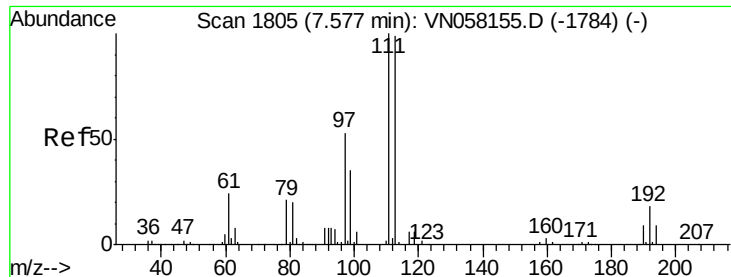
Tot Ion: 65 Resp: 343358
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058203.D
 Acq: 19 Sep 2019 14:31

Tgt Ion: 114 Resp: 790272
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 44.2
 88 16.1 0.0 31.6

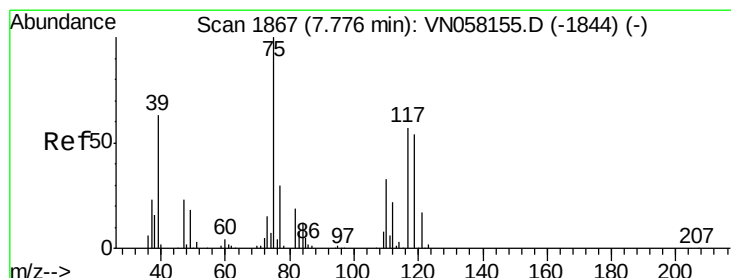
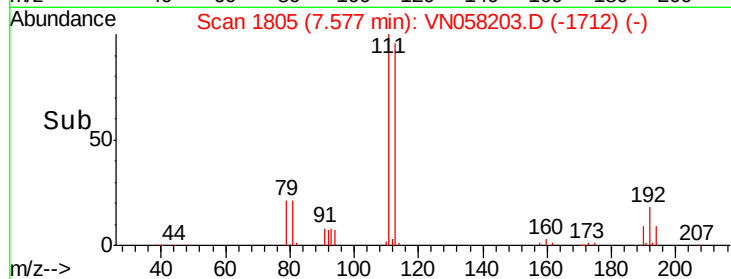
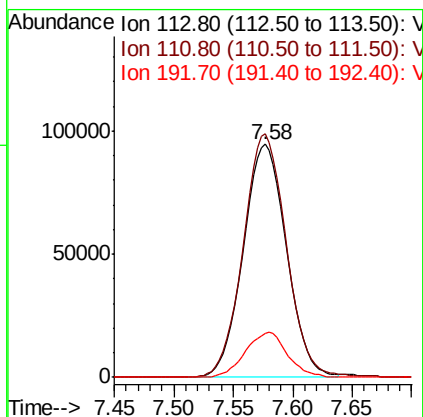
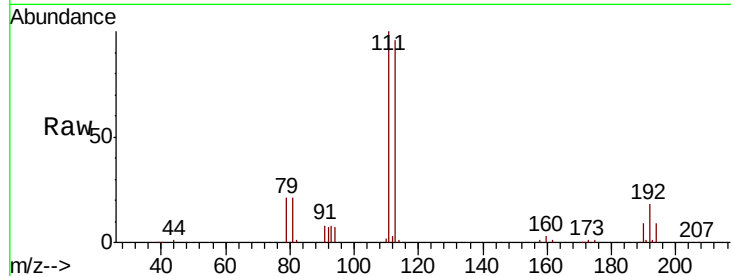




#35
 Dibromofluoromethane
 Concen: 49.676 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VN058203.D
 Acq: 19 Sep 2019 14:31

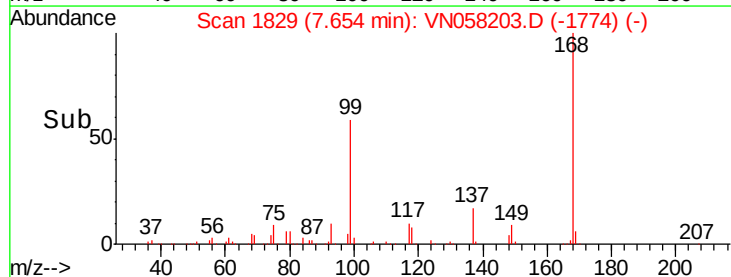
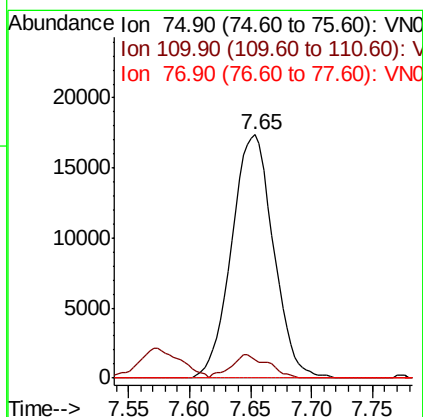
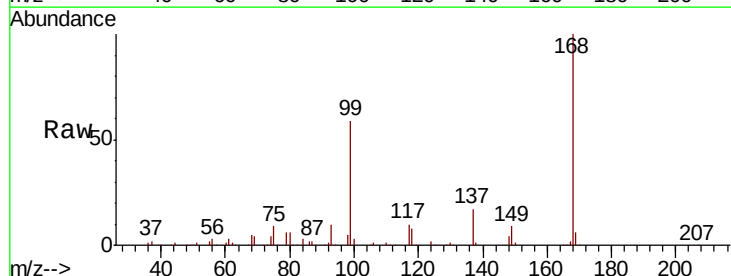
Instrument :
 MSVOA_N
 ClientSampleId :
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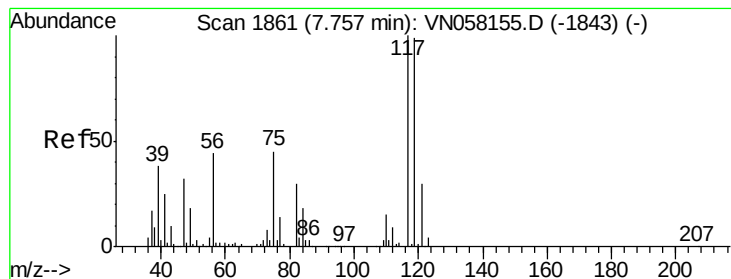
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.8	122.6
192	18.7	14.5	21.7



#36
 1,1-Dichloropropene
 Concen: 7.246 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058203.D
 Acq: 19 Sep 2019 14:31

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.6	49.7#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 8.567 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN058203.D

Acq: 19 Sep 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

DUP03-20190912

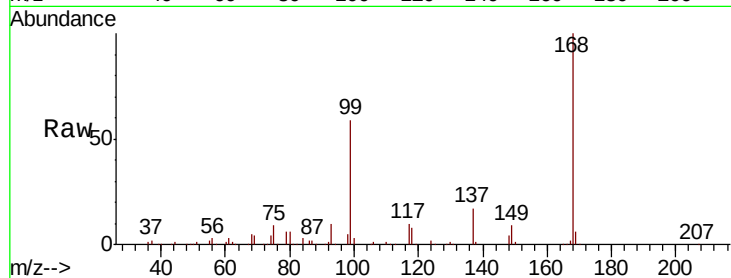
Tot Ion:117 Resp: 49081

Ion Ratio Lower Upper

117 100

119 4.0 78.6 117.8#

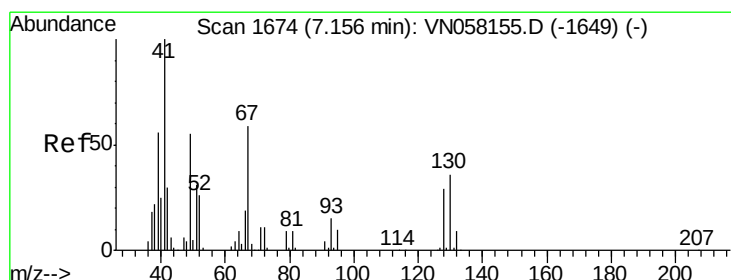
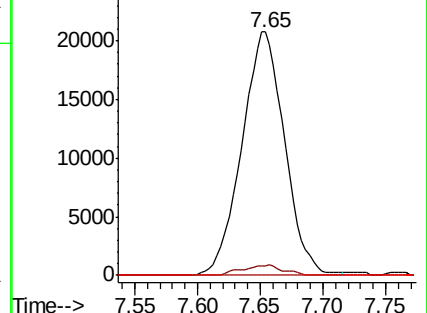
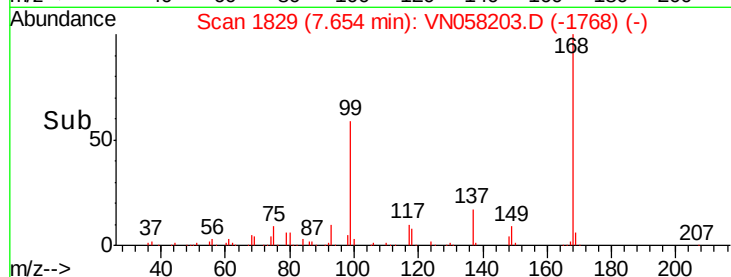
121 0.0 24.1 36.1#



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: 0.933 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. 0.05 min

Lab File: VN058203.D

Acq: 19 Sep 2019 14:31

Tgt Ion: 41 Resp: 66

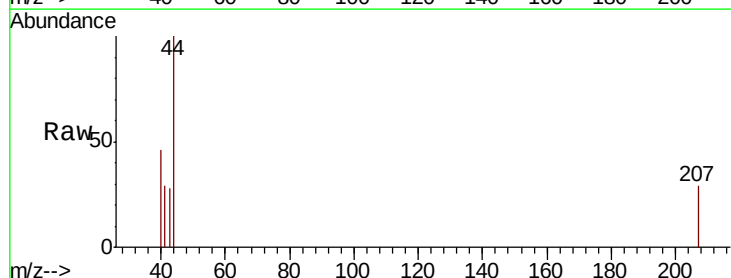
Ion Ratio Lower Upper

41 100

39 95.5 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

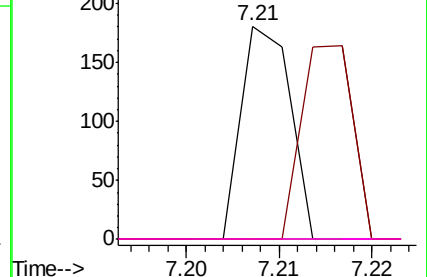
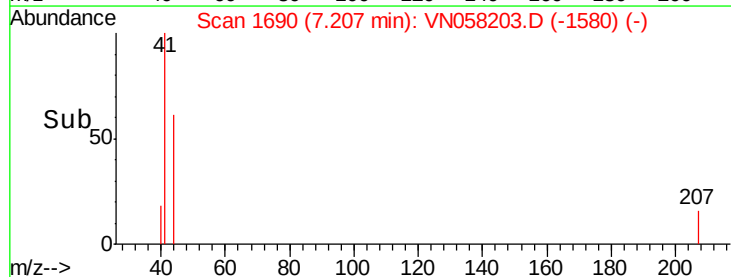


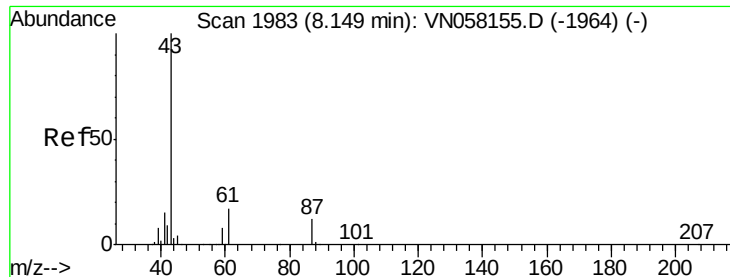
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 3.666 ug/l

RT: 8.26 min Scan# 2017

Delta R.T. 0.11 min

Lab File: VN058203.D

Acq: 19 Sep 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

DUP03-20190912

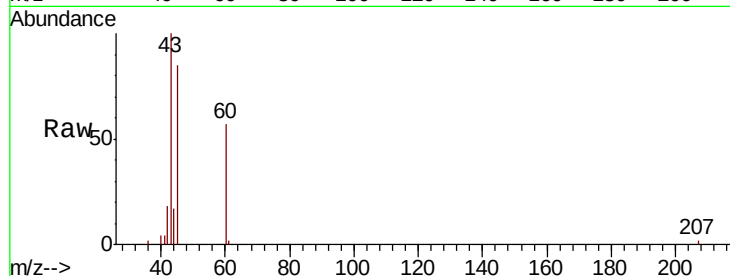
Tot Ion: 43 Resp: 40496

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

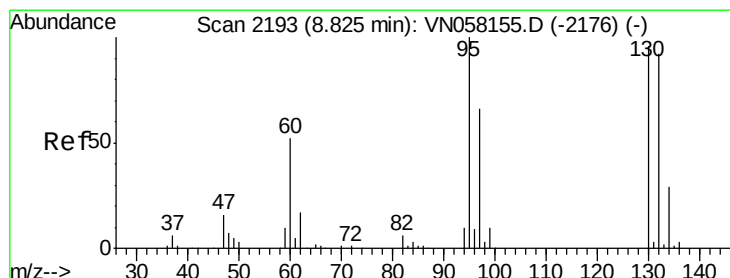
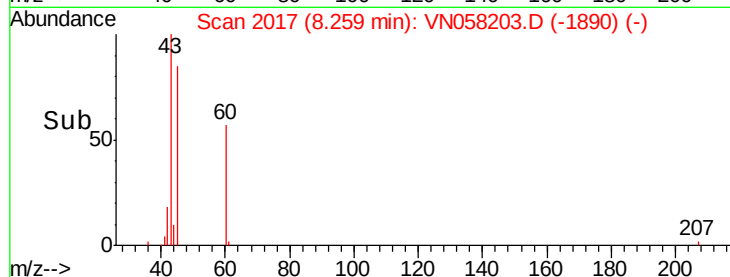
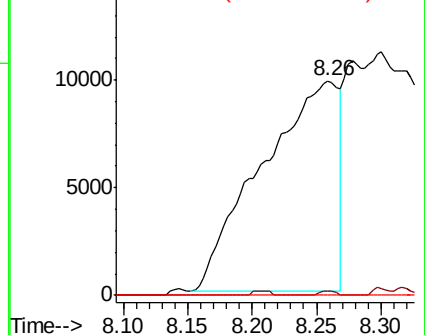
87 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN058203.D (-2017) (-)

Ion 61.00 (60.70 to 61.70): VN058203.D (-2017) (-)

Ion 87.00 (86.70 to 87.70): VN058203.D (-2017) (-)



#44

Trichloroethene

Concen: 3.202 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058203.D

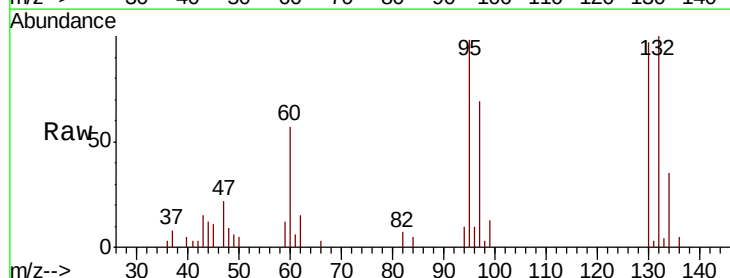
Acq: 19 Sep 2019 14:31

Tgt Ion: 130 Resp: 13639

Ion Ratio Lower Upper

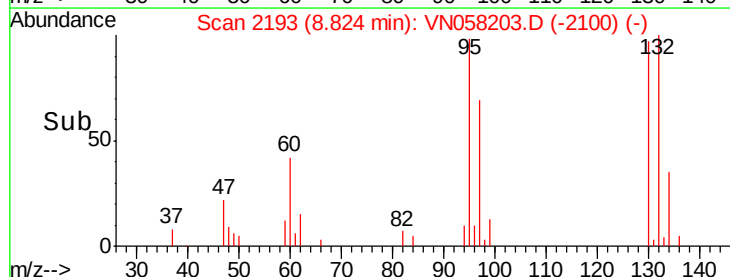
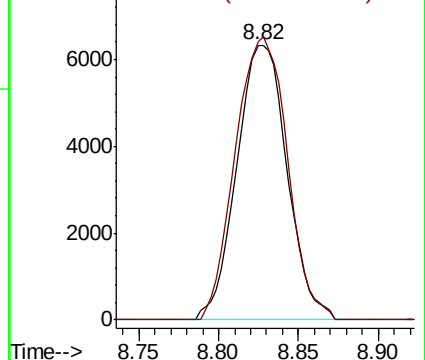
130 100

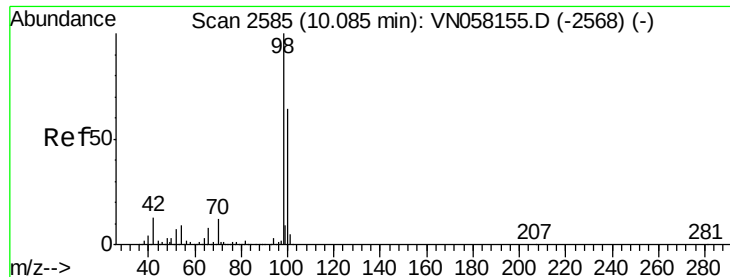
95 101.4 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): VN058203.D (-2193) (-)

Ion 94.90 (94.60 to 95.60): VN058203.D (-2193) (-)





#50

Toluene-d8

Concen: 51.842 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058203.D

Acq: 19 Sep 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

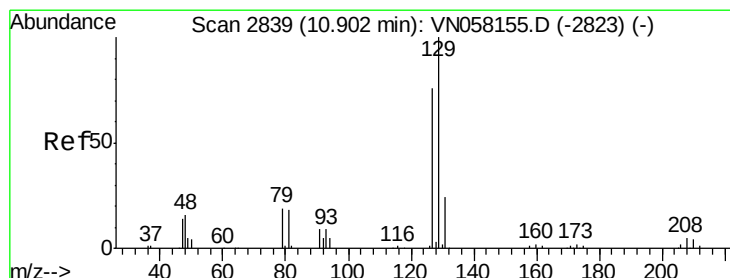
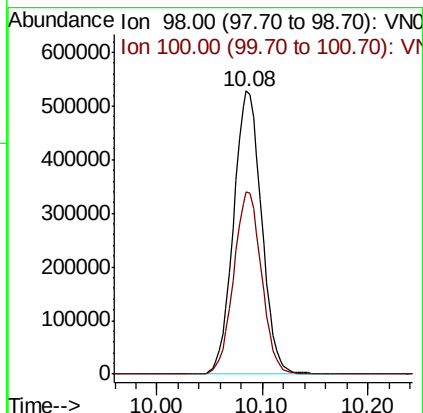
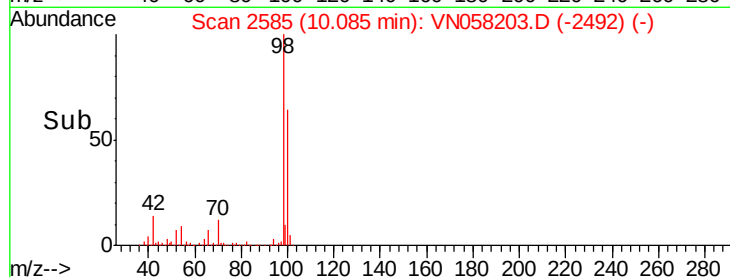
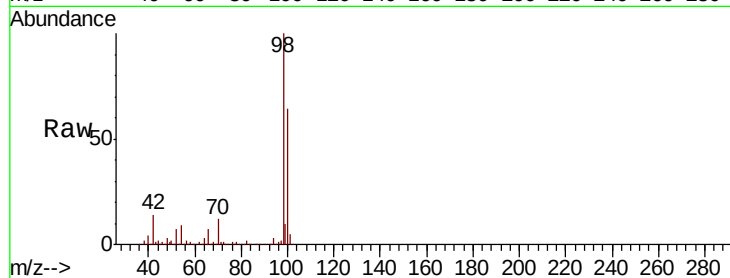
DUP03-20190912

Tot Ion: 98 Resp: 970392

Ion Ratio Lower Upper

98 100

100 64.0 51.1 76.7



#60

Dibromochloromethane

Concen: 1.387 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058203.D

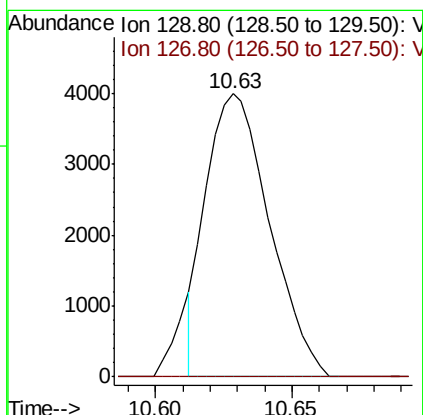
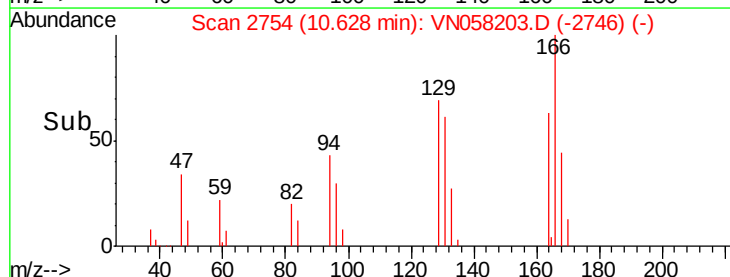
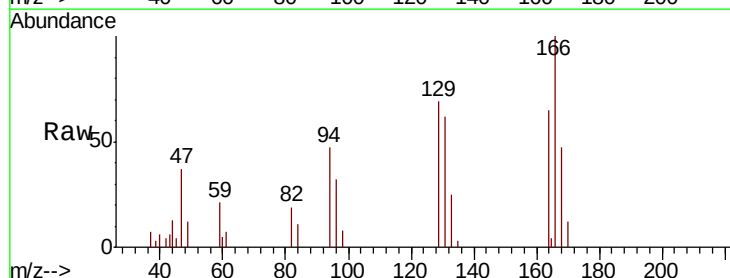
Acq: 19 Sep 2019 14:31

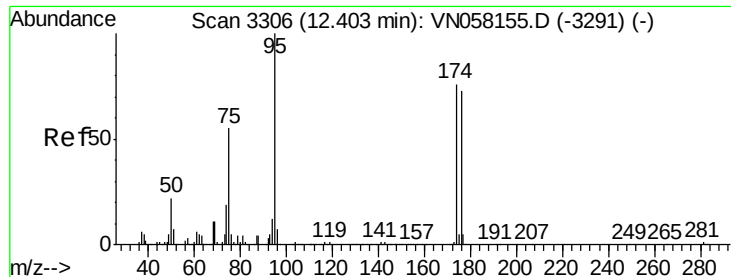
Tgt Ion: 129 Resp: 6460

Ion Ratio Lower Upper

129 100

127 0.0 38.7 116.1#

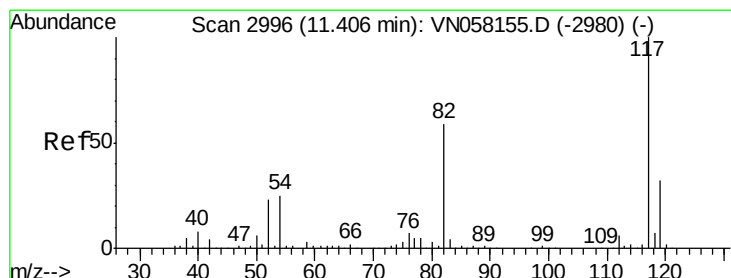
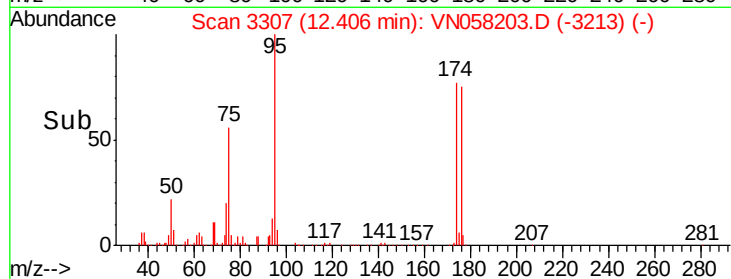
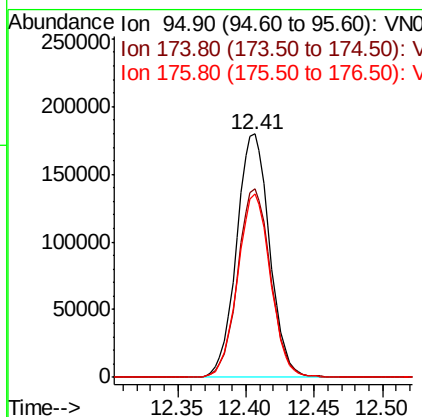
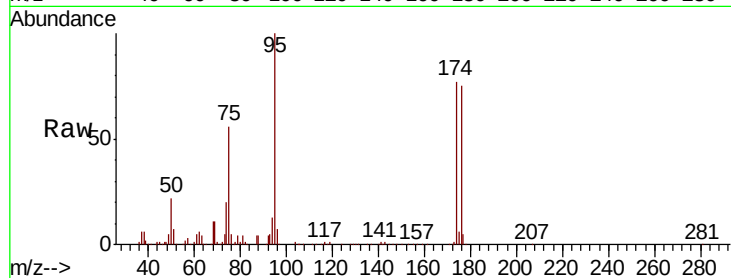




#62
4-Bromofluorobenzene
Concen: 43.555 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058203.D
Acq: 19 Sep 2019 14:31

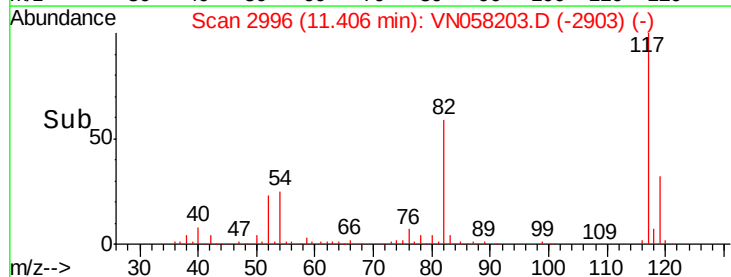
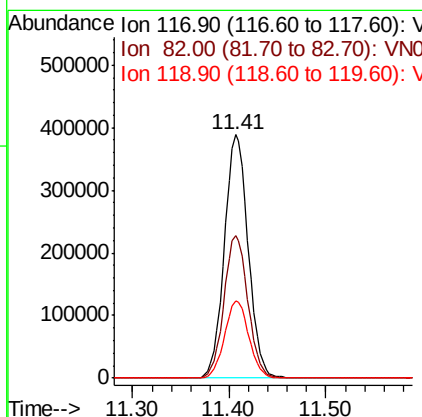
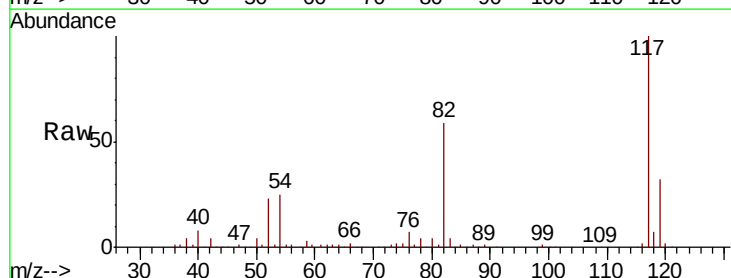
Instrument :
MSVOA_N
ClientSampleId :
DUP03-20190912

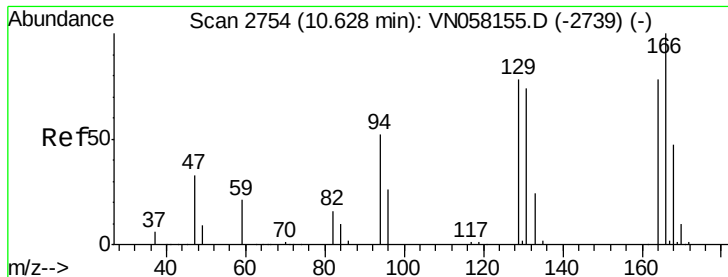
Tot Ion: 95 Resp: 302842
Ion Ratio Lower Upper
95 100
174 77.5 0.0 152.2
176 75.0 0.0 148.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058203.D
Acq: 19 Sep 2019 14:31

Tgt Ion: 117 Resp: 661126
Ion Ratio Lower Upper
117 100
82 58.7 46.9 70.3
119 31.6 25.3 37.9





#64

Tetrachloroethene

Concen: 2.278 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN058203.D

Acq: 19 Sep 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

DUP03-20190912

Tot Ion:164 Resp: 7341

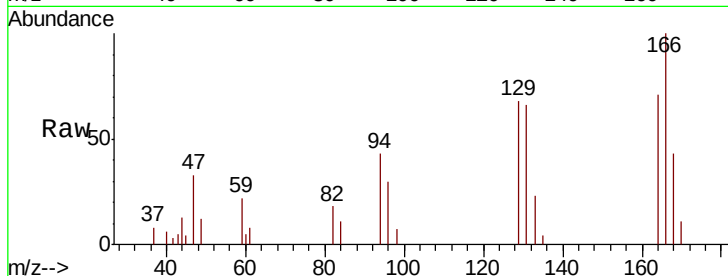
Ion Ratio Lower Upper

164 100

166 139.9 102.2 153.4

129 95.0 79.6 119.4

131 92.3 76.0 114.0



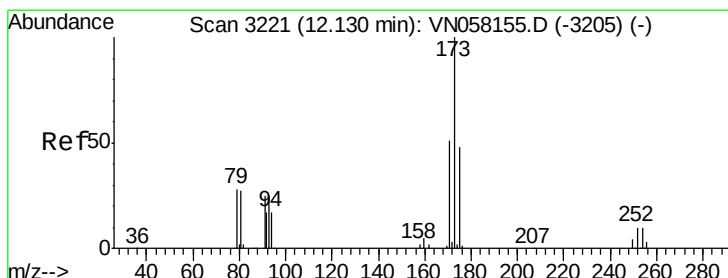
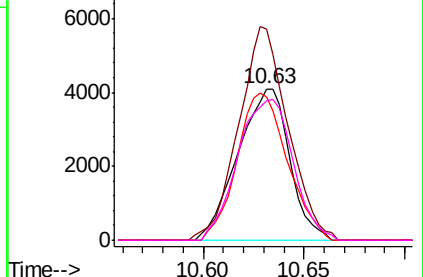
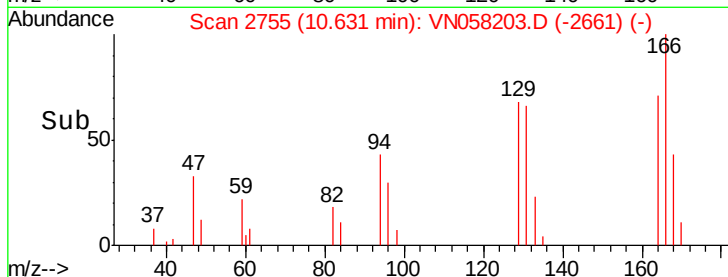
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

Time-->



#71

Bromoform

Concen: 3.885 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058203.D

Acq: 19 Sep 2019 14:31

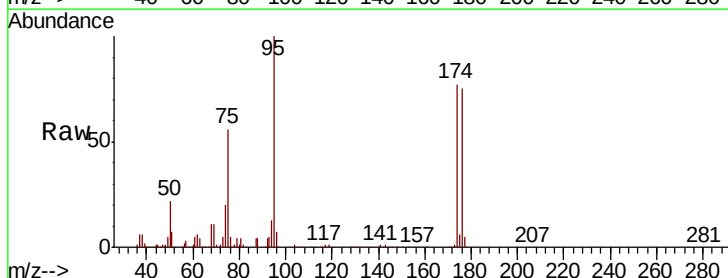
Tgt Ion:173 Resp: 976

Ion Ratio Lower Upper

173 100

175 1539.2 24.2 72.6#

254 0.0 0.1 0.1#

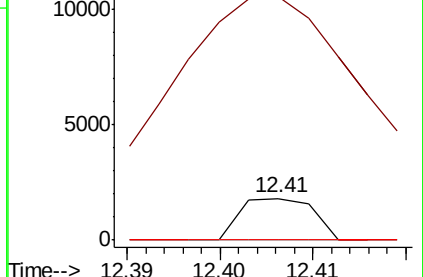
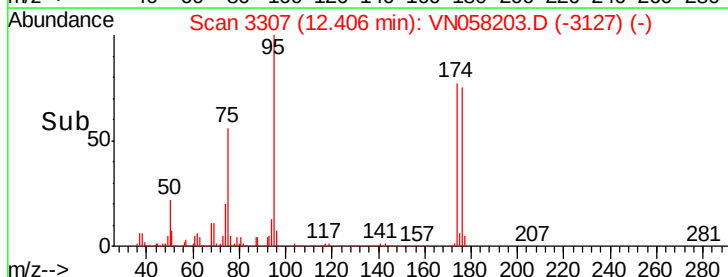


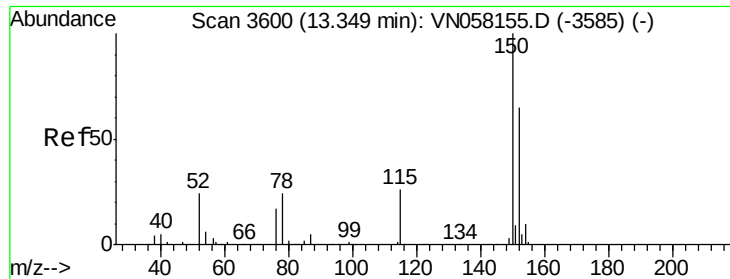
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058203.D

Acq: 19 Sep 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

DUP03-20190912

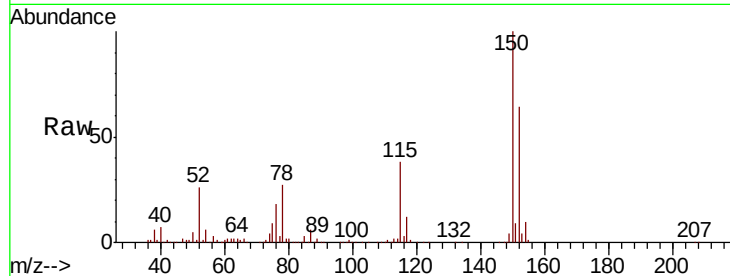
Tot Ion:152 Resp: 261923

Ion Ratio Lower Upper

152 100

115 59.6 30.1 90.3

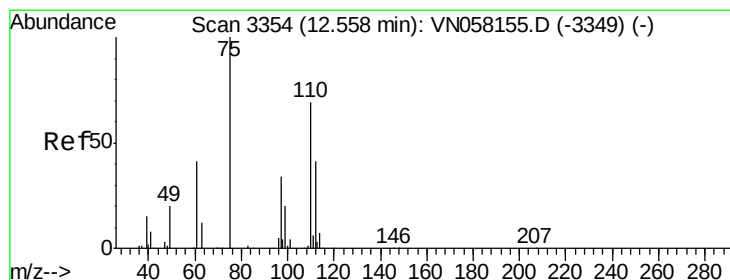
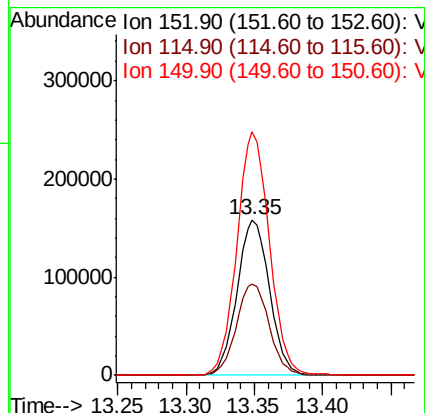
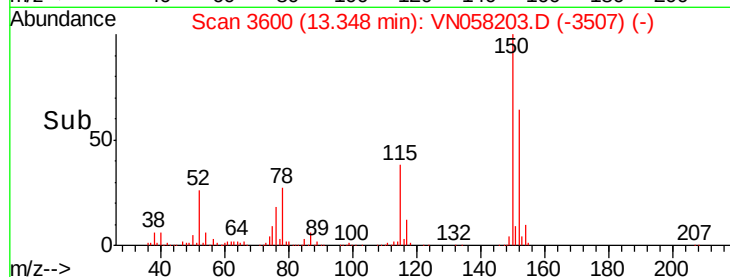
150 156.7 0.0 346.4



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: 35.930 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058203.D

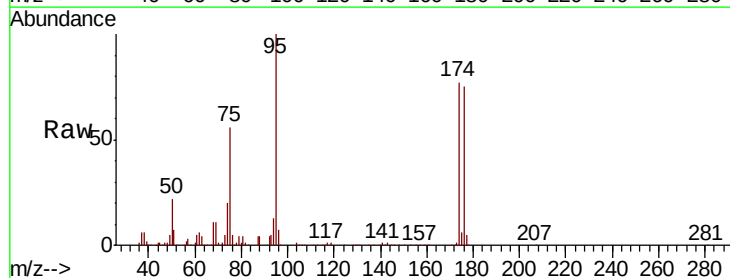
Acq: 19 Sep 2019 14:31

Tgt Ion: 75 Resp: 168426

Ion Ratio Lower Upper

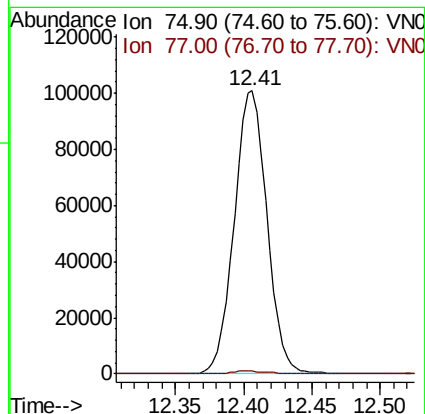
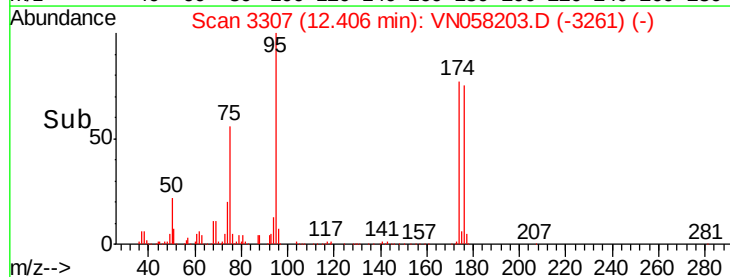
75 100

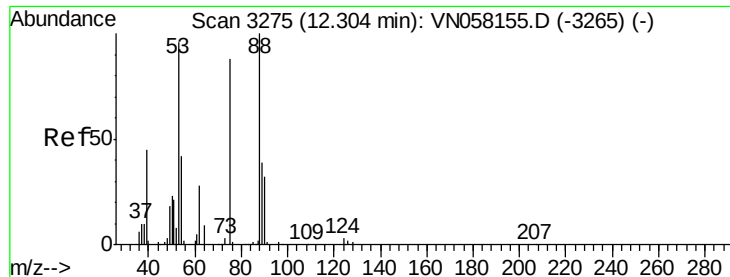
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

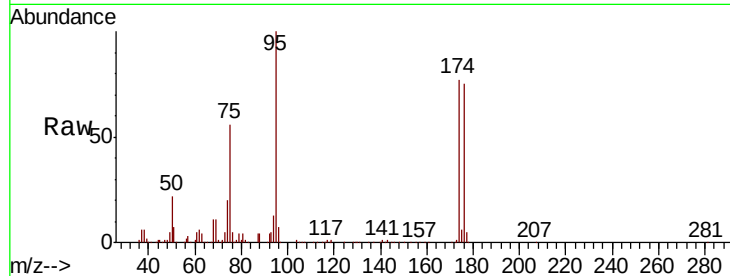




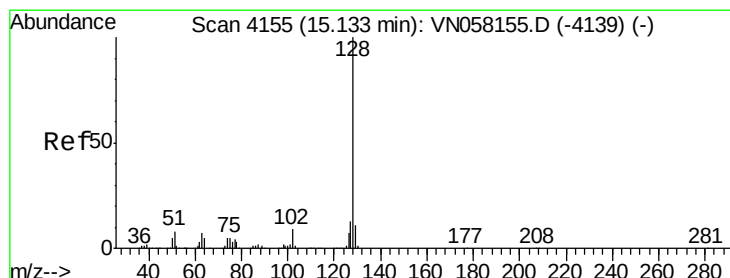
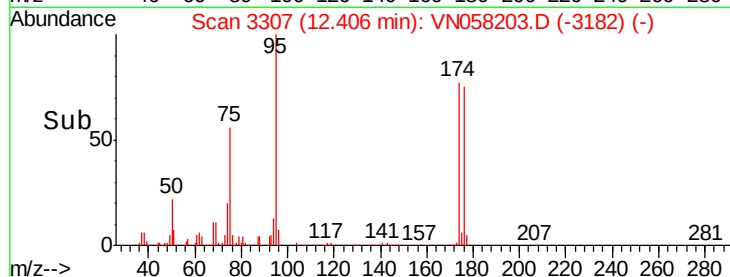
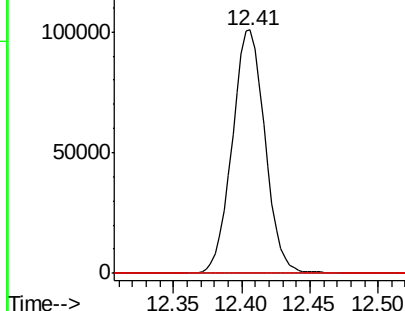
#81
 trans-1,4-Dichloro-2-butene
 Concen: 100.356 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058203.D
 Acq: 19 Sep 2019 14:31

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP03-20190912

Tot Ion: 75 Resp: 168426
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.1 135.1#
 89 0.0 36.2 54.2#

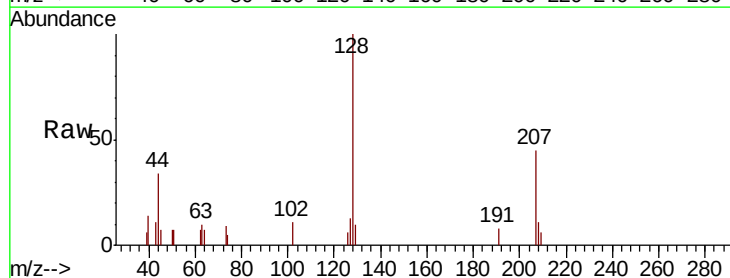


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 53.00 (52.70 to 53.70): VN0
 Ion 88.90 (88.60 to 89.60): VN0

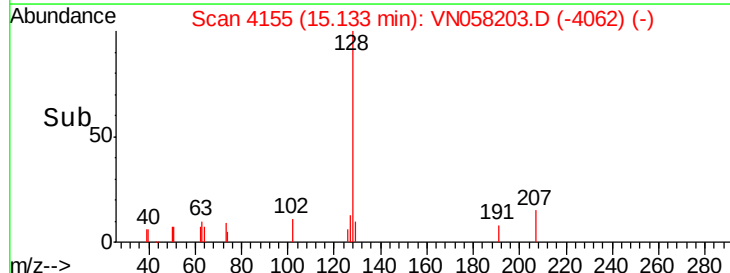
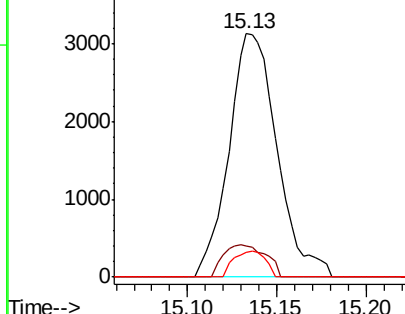


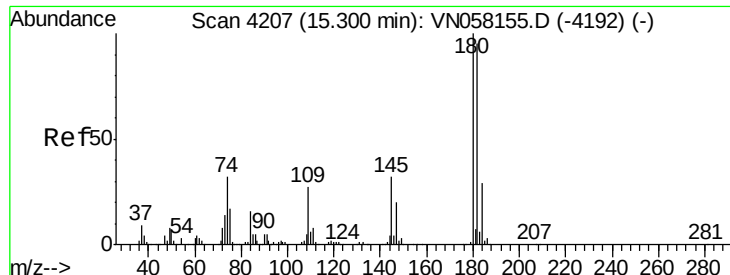
#95
 Naphthalene
 Concen: 0.468 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN058203.D
 Acq: 19 Sep 2019 14:31

Tgt Ion:128 Resp: 5860
 Ion Ratio Lower Upper
 128 100
 127 11.6 10.2 15.2
 129 7.0 8.6 12.8#



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: 0.277 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN058203.D
 Acq: 19 Sep 2019 14:31

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP03-20190912

Tot Ion	Ratio	Lower	Upper
180	100		
182	109.5	47.4	142.2
145	32.6	16.1	48.2

