

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092019\
 Data File : VN058244.D
 Acq On : 20 Sep 2019 13:02
 Operator : JC/SP
 Sample : VN0920WBL02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBL02

Quant Time: Sep 20 23:47:47 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	486917	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	781897	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	650387	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	262239	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	340474	50.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.40%	
35) Dibromofluoromethane	7.57	113	240647	50.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.26%	
50) Toluene-d8	10.09	98	962343	51.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.92%	
62) 4-Bromofluorobenzene	12.41	95	305291	44.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.76%	

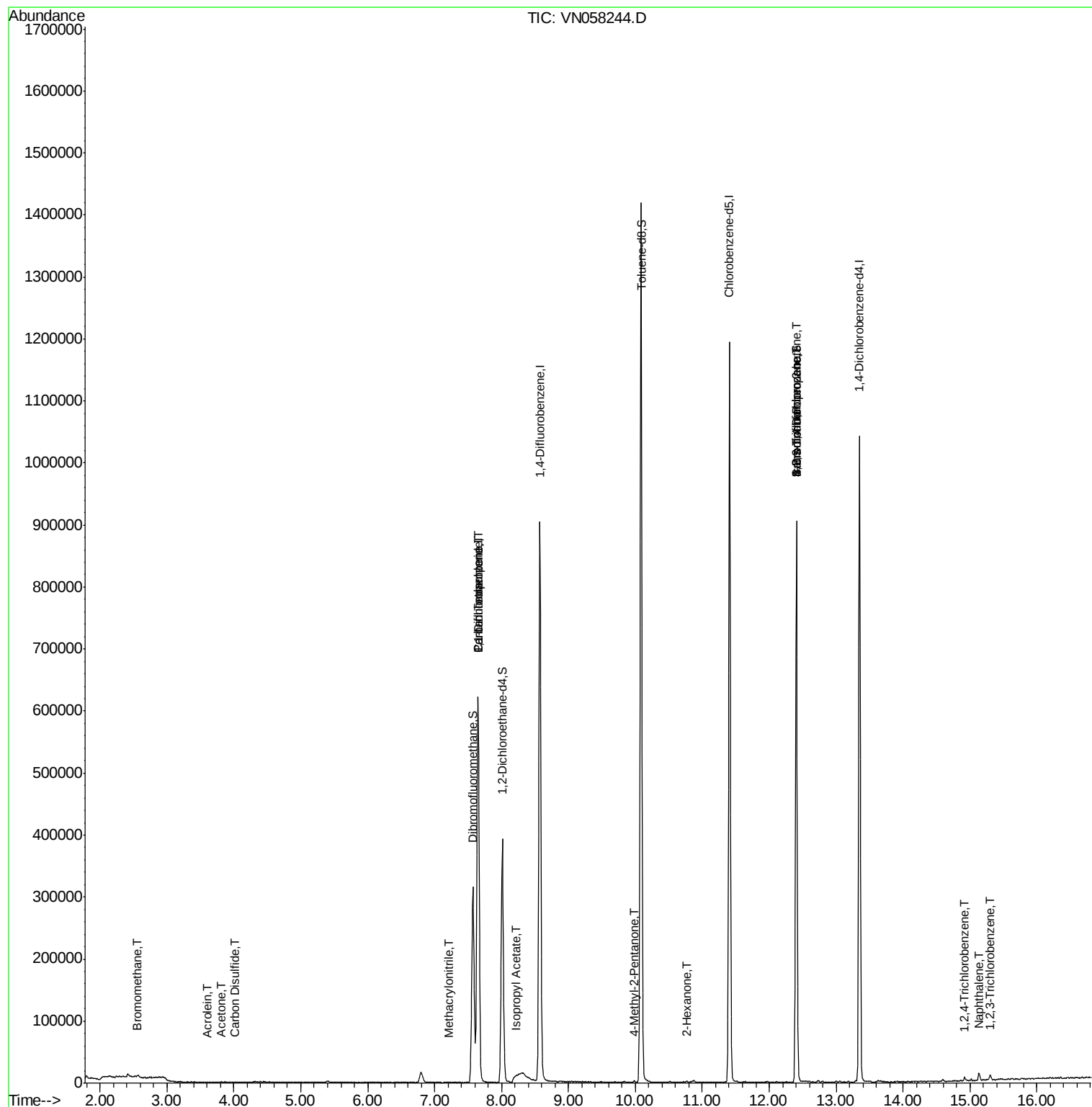
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	412	Below Cal	#	42
4) Vinyl Chloride	2.17	62	114	Below Cal	#	43
5) Bromomethane	2.55	94	174	0.819	ug/l	96
6) Chloroethane	2.76	64	31	Below Cal	#	44
13) Acrolein	3.60	56	33	0.276	ug/l #	15
16) Acetone	3.81	43	1301	0.565	ug/l #	72
17) Carbon Disulfide	4.02	76	876	0.478	ug/l #	74
20) Methylene Chloride	4.53	84	470	Below Cal	#	33
31) Cyclohexane	7.65	56	13057	Below Cal	#	26
36) 1,1-Dichloropropene	7.65	75	42703	7.573	ug/l #	50
38) Carbon Tetrachloride	7.65	117	51492	9.085	ug/l #	14
41) Methacrylonitrile	7.21	41	133	0.955	ug/l #	100
43) Isopropyl Acetate	8.21	43	9657	0.884	ug/l #	57
51) 4-Methyl-2-Pentanone	9.99	43	1345	0.232	ug/l	88
59) 2-Hexanone	10.75	43	1063	0.247	ug/l	85
71) Bromoform	12.41	173	740	3.818	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	167012	35.586	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	167012	99.449	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.91	180	2216	0.458	ug/l	96
95) Naphthalene	15.13	128	10787	0.861	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	2634	0.577	ug/l	95

(#) = 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# 1827

Delta R.T. -0.00 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

Instrument :

MSVOA_N

ClientSampleId :

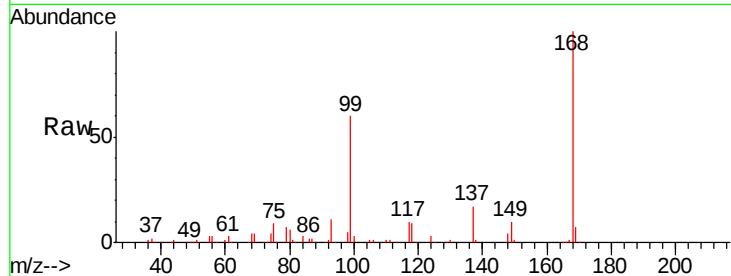
VN0920WBL02

Tgt Ion:168 Resp: 486917

Ion Ratio Lower Upper

168 100

99 60.3 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

200000

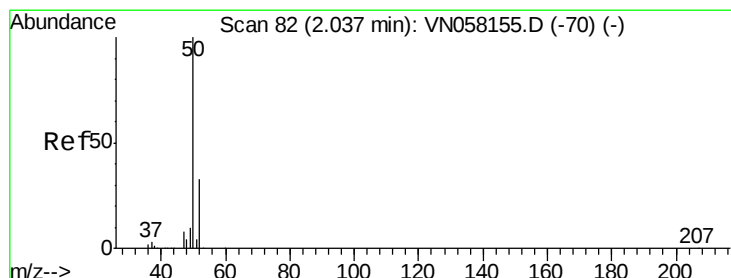
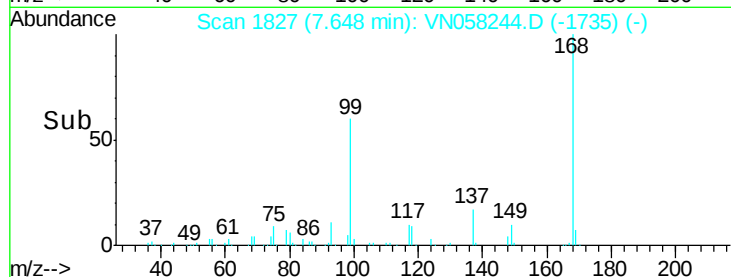
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 84

Delta R.T. 0.01 min

Lab File: VN058244.D

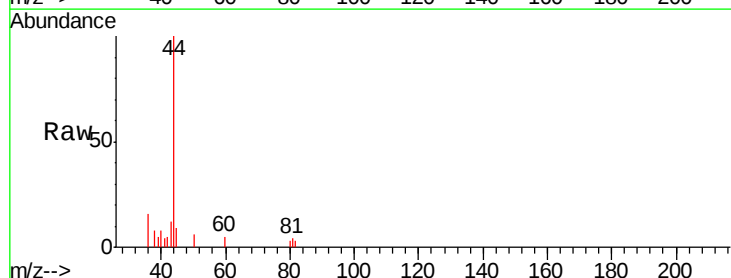
Acq: 20 Sep 2019 13:02

Tgt Ion: 50 Resp: 412

Ion Ratio Lower Upper

50 100

52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

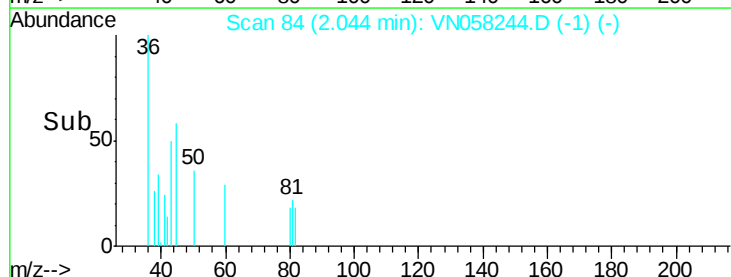
300

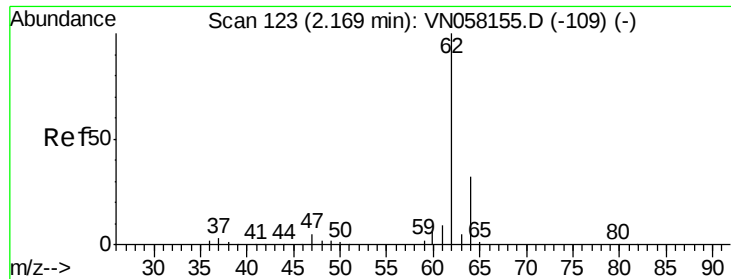
200

100

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

Instrument :

MSVOA_N

ClientSampleId :

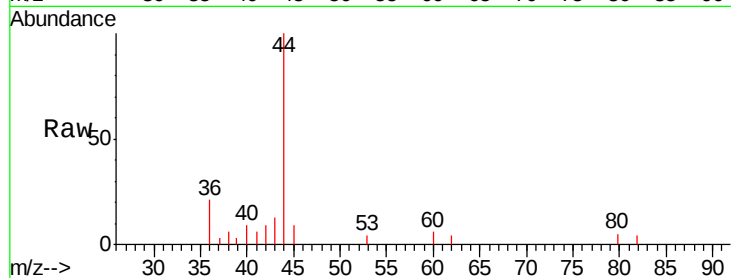
VN0920WBL02

Tgt Ion: 62 Resp: 114

Ion Ratio Lower Upper

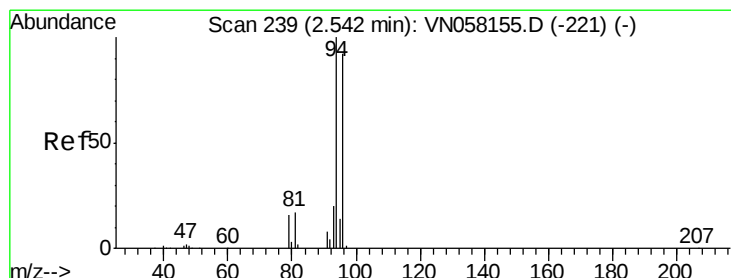
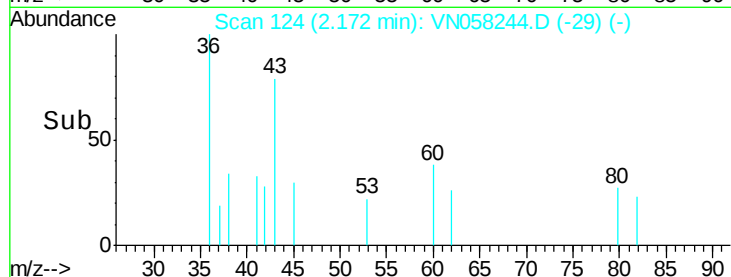
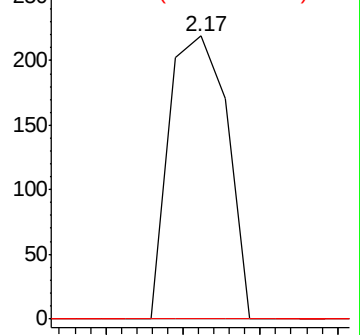
62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



#5

Bromomethane

Concen: 0.819 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058244.D

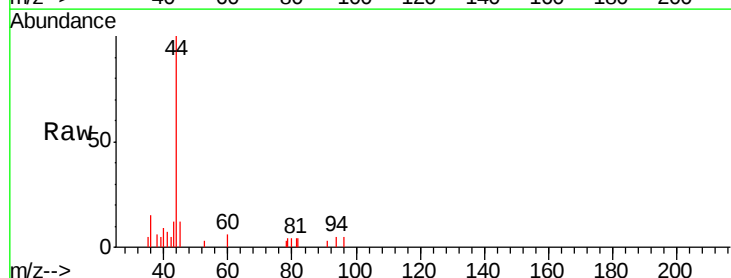
Acq: 20 Sep 2019 13:02

Tgt Ion: 94 Resp: 174

Ion Ratio Lower Upper

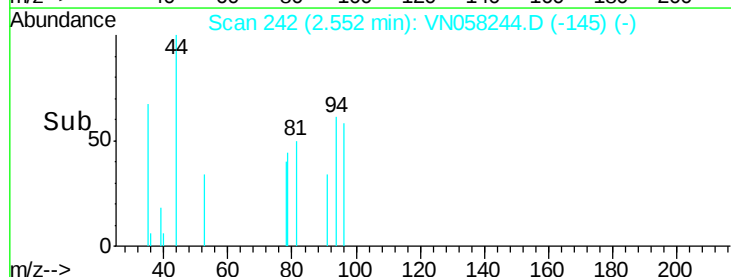
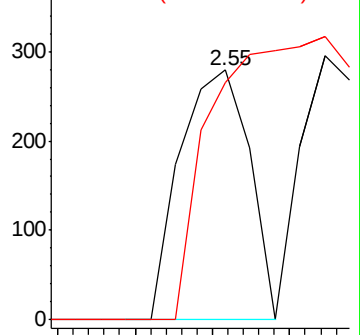
94 100

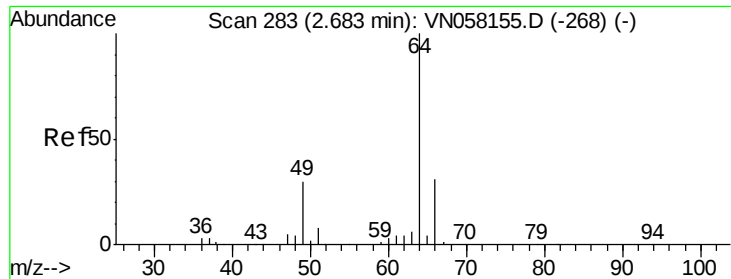
96 95.3 73.3 109.9



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: 2.76 min Scan# 308

Delta R.T. 0.08 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

Instrument :

MSVOA_N

ClientSampleId :

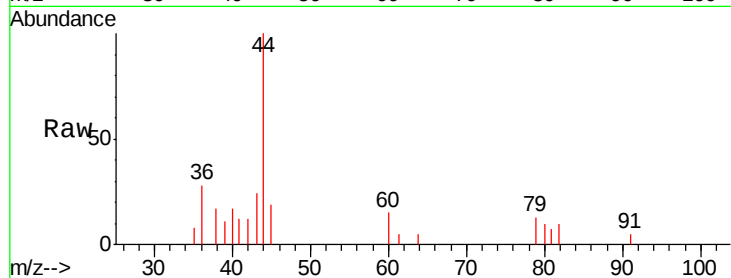
VN0920WBL02

Tgt Ion: 64 Resp: 31

Ion Ratio Lower Upper

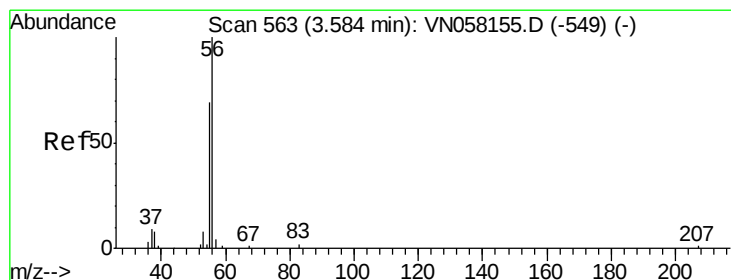
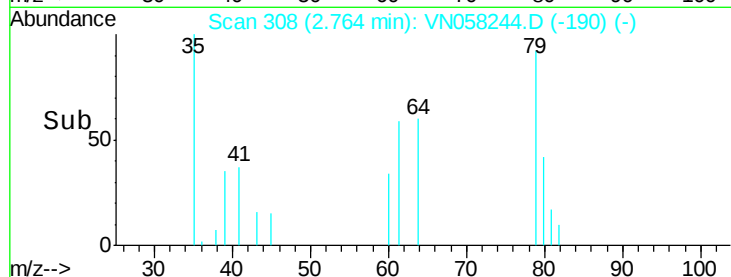
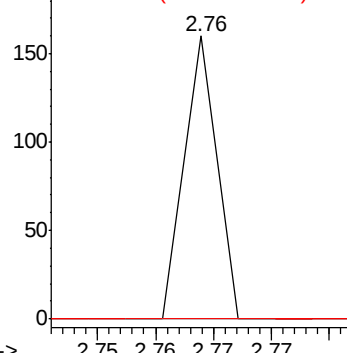
64 100

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



#13

Acrolein

Concen: 0.276 ug/l

RT: 3.60 min Scan# 567

Delta R.T. 0.01 min

Lab File: VN058244.D

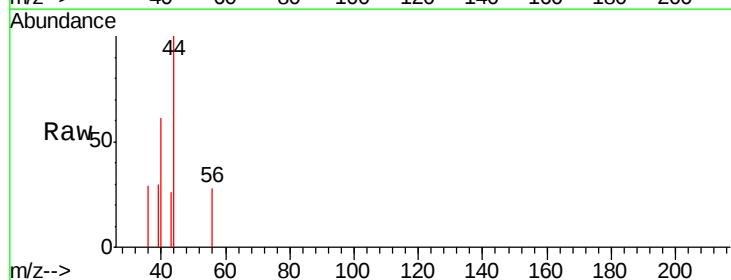
Acq: 20 Sep 2019 13:02

Tgt Ion: 56 Resp: 33

Ion Ratio Lower Upper

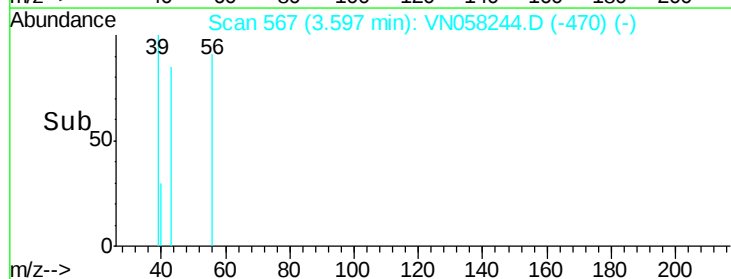
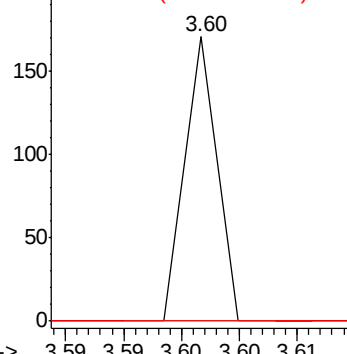
56 100

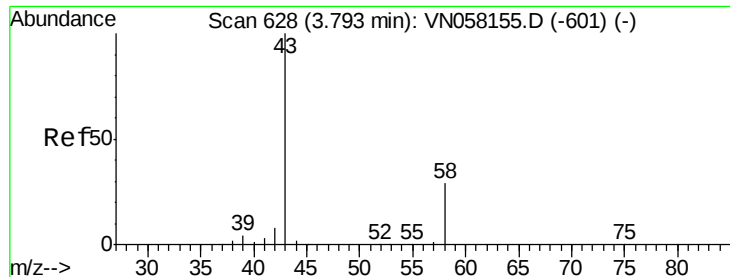
55 0.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 0.565 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

Instrument :

MSVOA_N

ClientSampled :

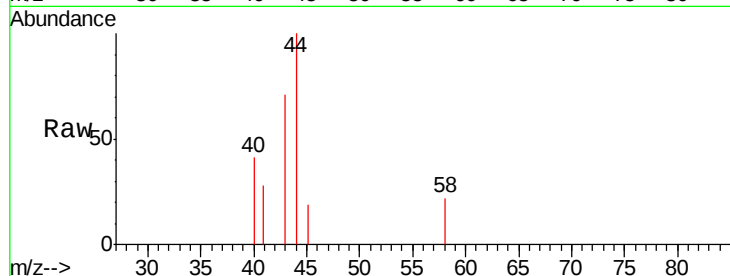
VN0920WBL02

Tgt Ion: 43 Resp: 1301

Ion Ratio Lower Upper

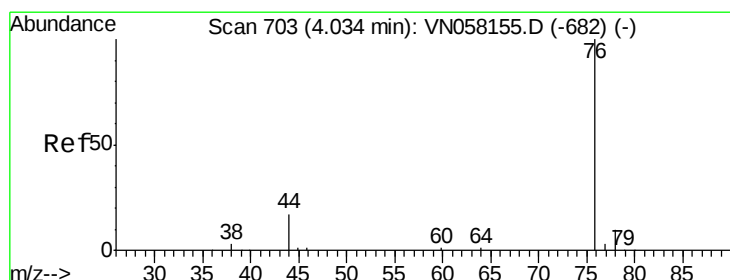
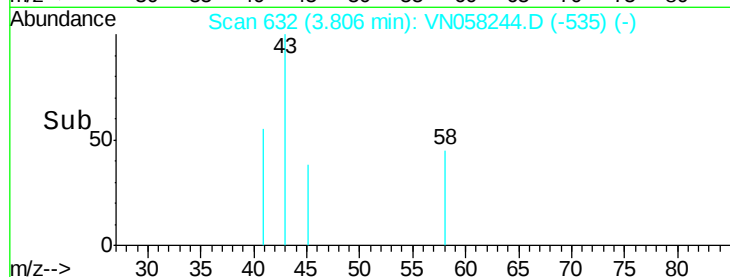
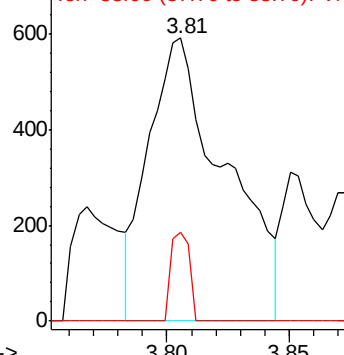
43 100

58 44.4 23.4 35.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.478 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN058244.D

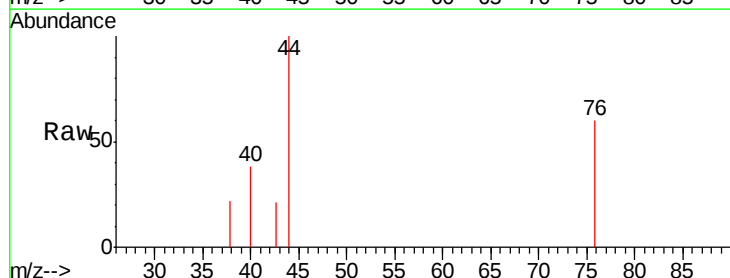
Acq: 20 Sep 2019 13:02

Tgt Ion: 76 Resp: 876

Ion Ratio Lower Upper

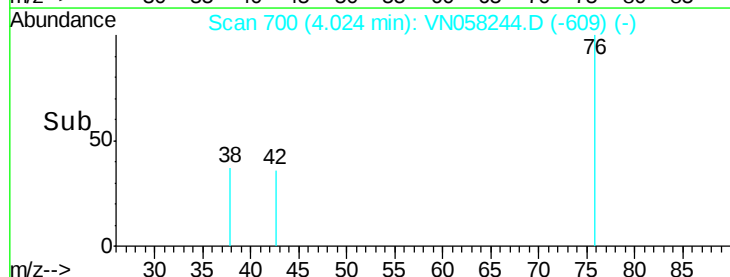
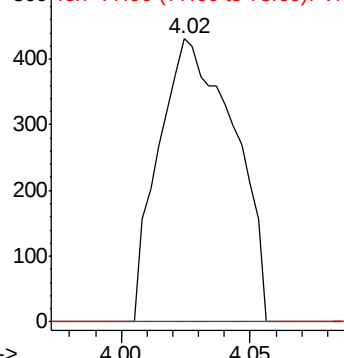
76 100

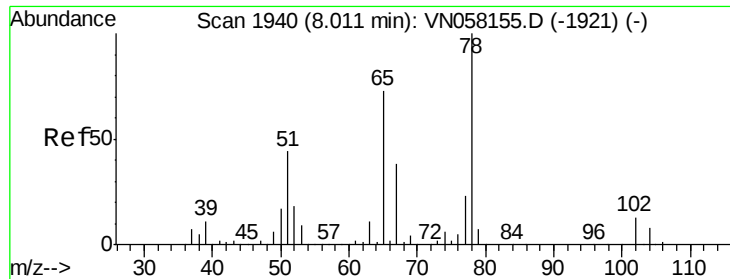
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

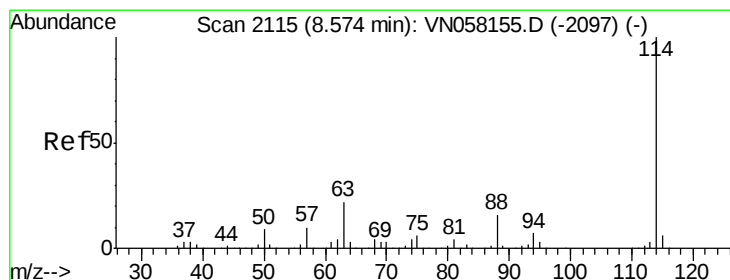
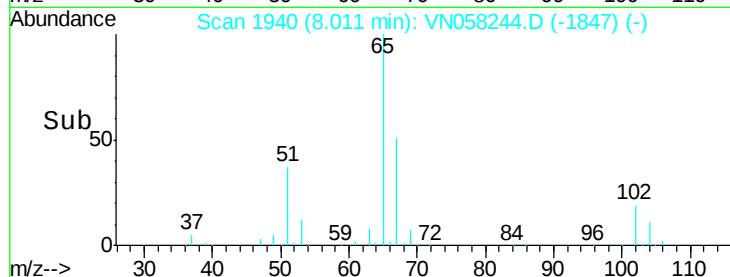
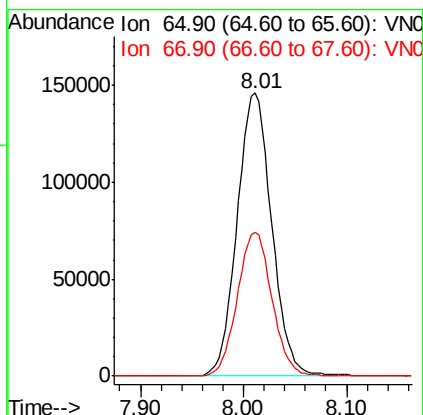
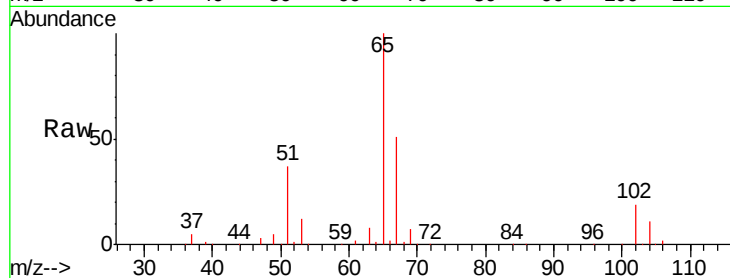




#33
 1,2-Dichloroethane-d4
 Concen: 50.204 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058244.D
 Acq: 20 Sep 2019 13:02

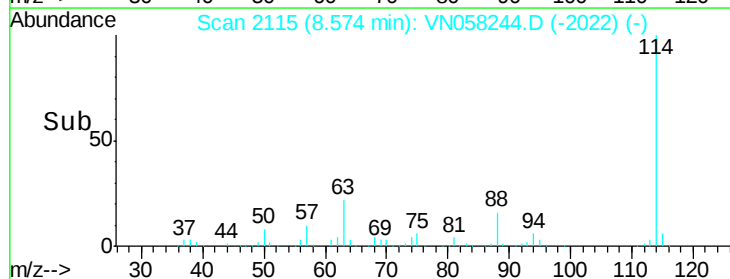
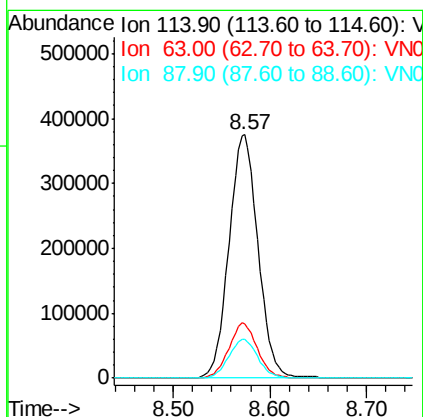
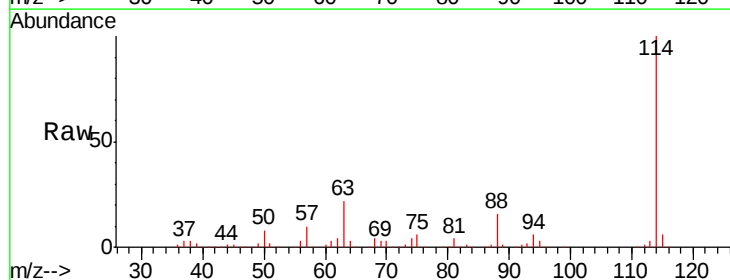
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBL02

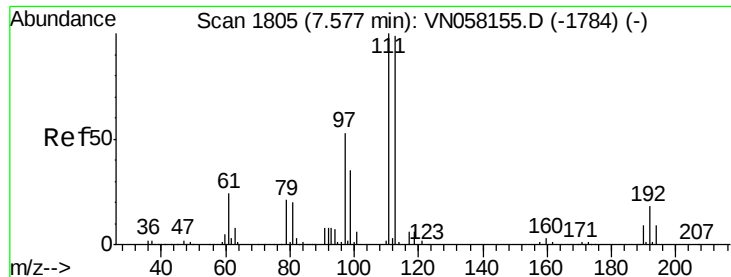
Tgt Ion: 65 Resp: 340474
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058244.D
 Acq: 20 Sep 2019 13:02

Tgt Ion: 114 Resp: 781897
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.2
 88 15.9 0.0 31.6





#35

Dibromofluoromethane

Concen: 50.627 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.01 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBL02

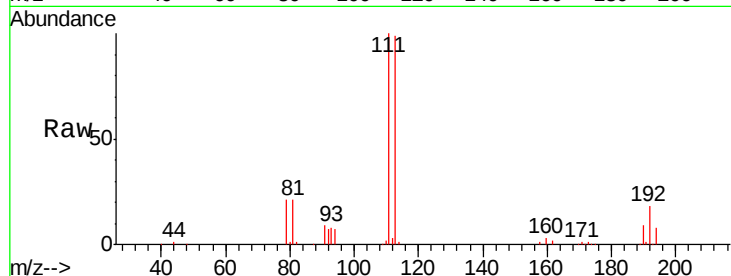
Tgt Ion: 113 Resp: 240647

Ion Ratio Lower Upper

113 100

111 101.4 81.8 122.6

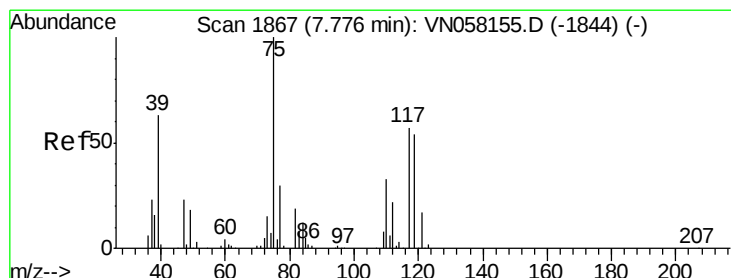
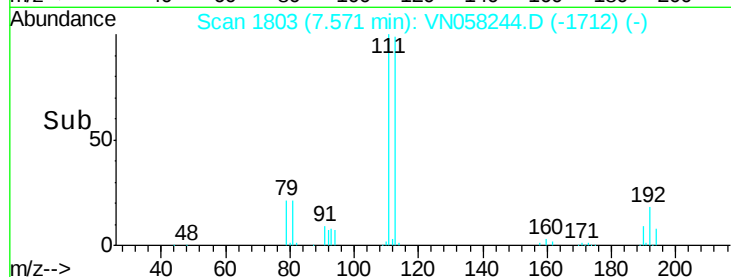
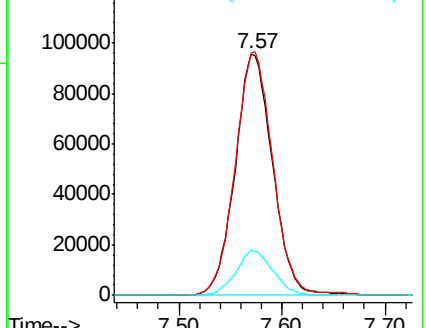
192 18.4 14.5 21.7



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: 7.573 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

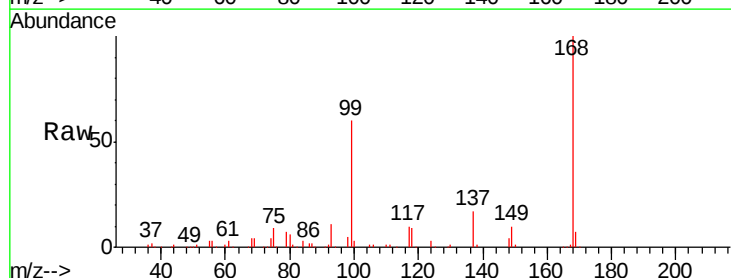
Tgt Ion: 75 Resp: 42703

Ion Ratio Lower Upper

75 100

110 8.2 16.6 49.7#

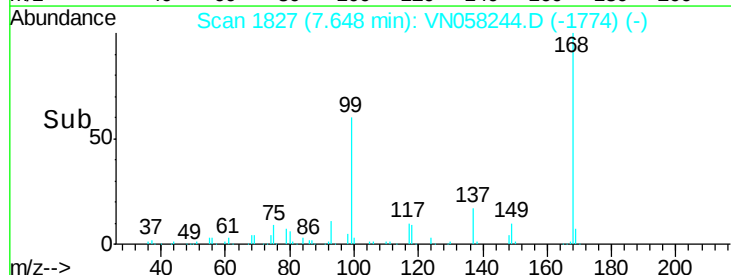
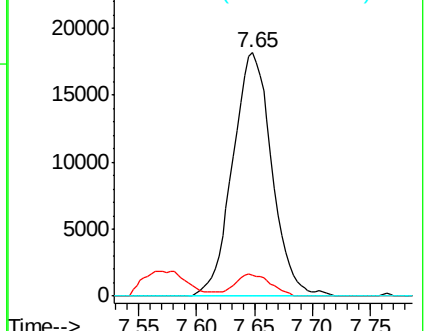
77 0.0 24.3 36.5#

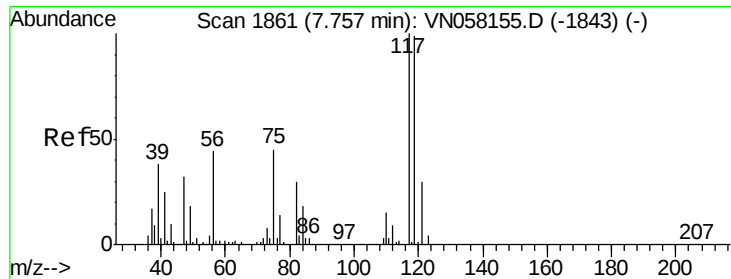


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 9.085 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

Instrument :

MSVOA_N

ClientSampled :

VN0920WBL02

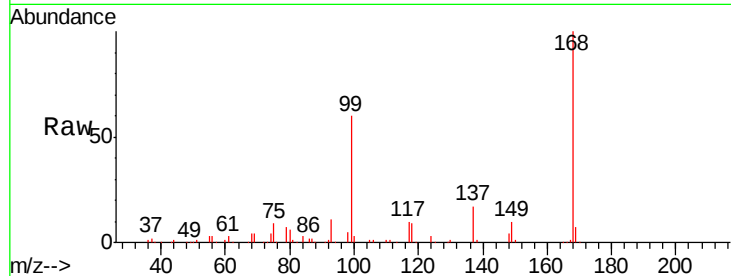
Tgt Ion:117 Resp: 51492

Ion Ratio Lower Upper

117 100

119 3.4 78.6 117.8#

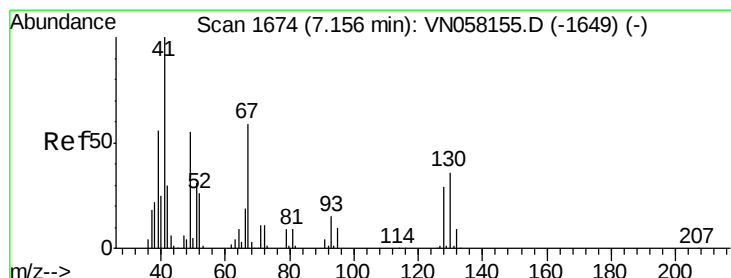
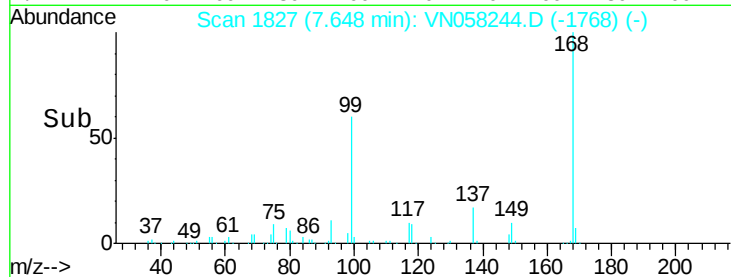
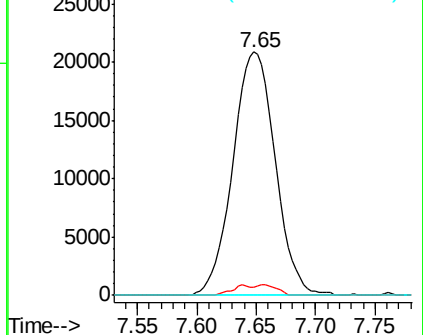
121 0.0 24.1 36.1#



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: 0.955 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.06 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

Tgt Ion: 41 Resp: 133

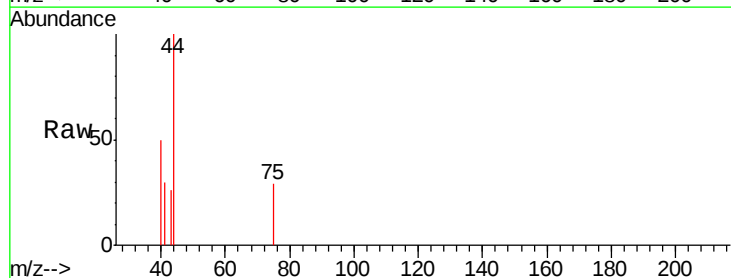
Ion Ratio Lower Upper

41 100

39 125.6 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

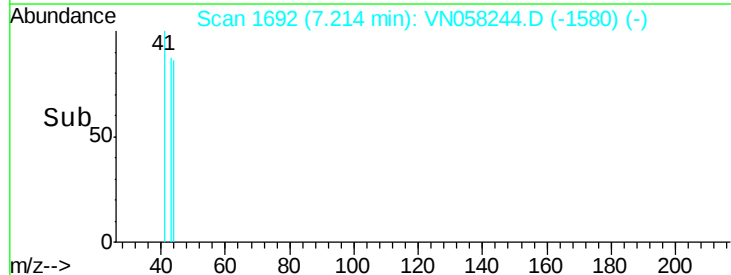
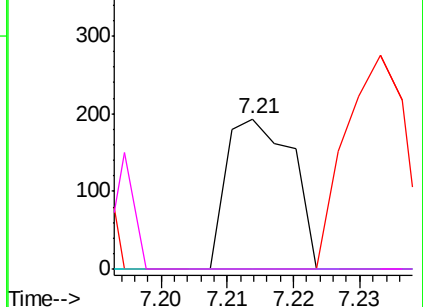


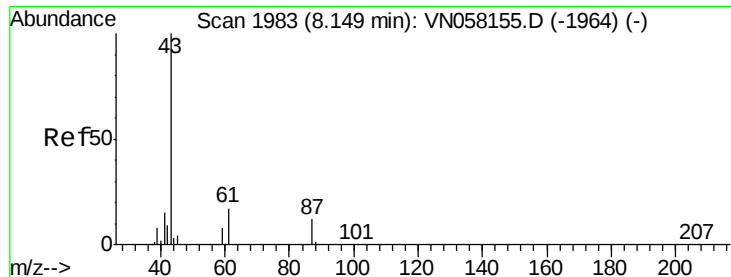
Abundance Ion 41.00 (40.70 to 41.70): VNC

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

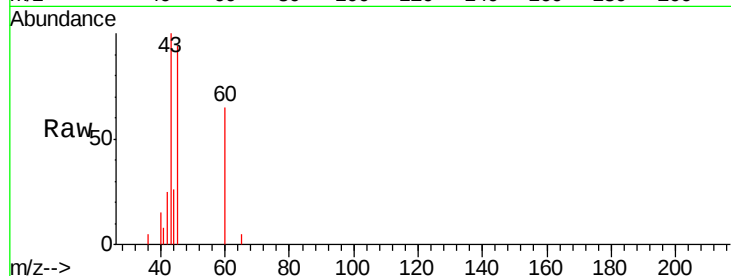




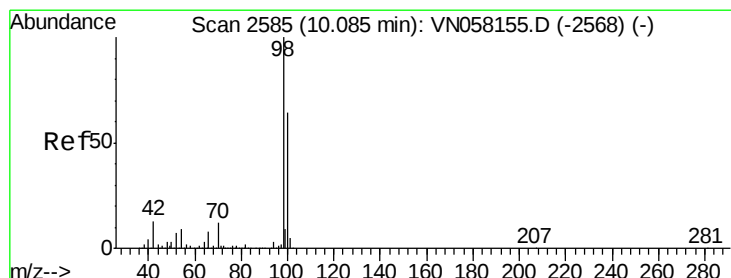
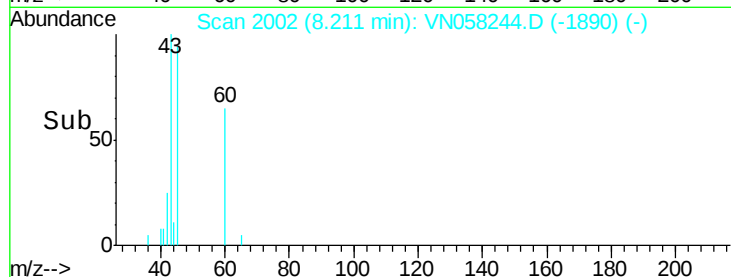
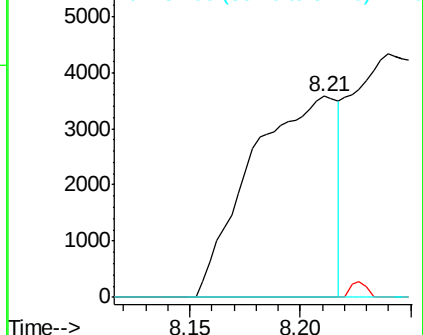
#43
Isopropyl Acetate
Concen: 0.884 ug/l
RT: 8.21 min Scan# 2002
Delta R.T. 0.06 min
Lab File: VN058244.D
Acq: 20 Sep 2019 13:02

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBL02

Tgt Ion: 43 Resp: 9657
Ion Ratio Lower Upper
43 100
61 0.0 19.7 29.5#
87 0.0 9.4 14.2#

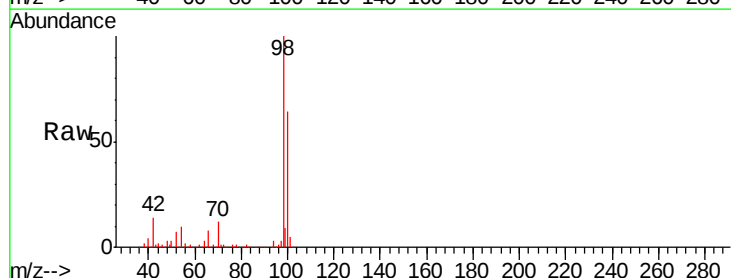


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0

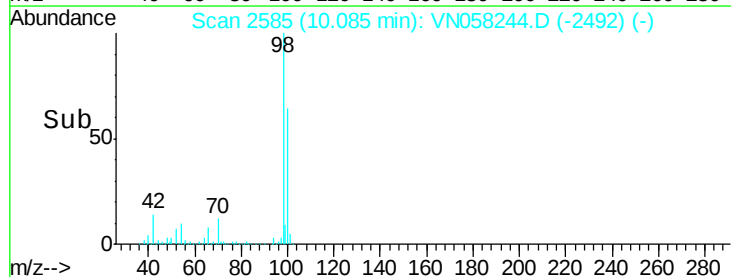
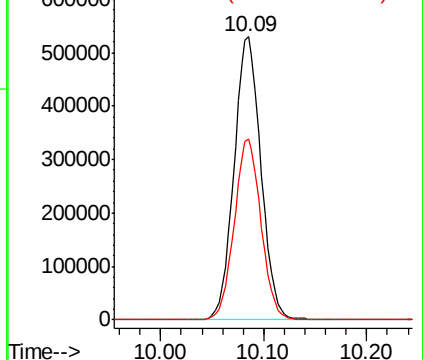


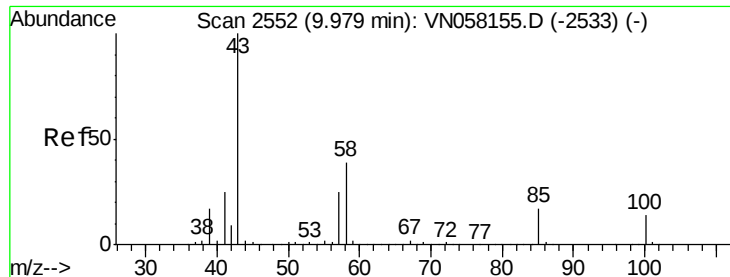
#50
Toluene-d8
Concen: 51.963 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058244.D
Acq: 20 Sep 2019 13:02

Tgt Ion: 98 Resp: 962343
Ion Ratio Lower Upper
98 100
100 63.5 51.1 76.7



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: 0.232 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

Instrument :

MSVOA_N

ClientSampled :

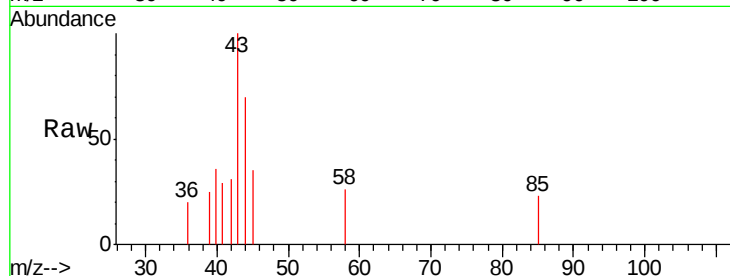
VN0920WBL02

Tgt Ion: 43 Resp: 1345

Ion Ratio Lower Upper

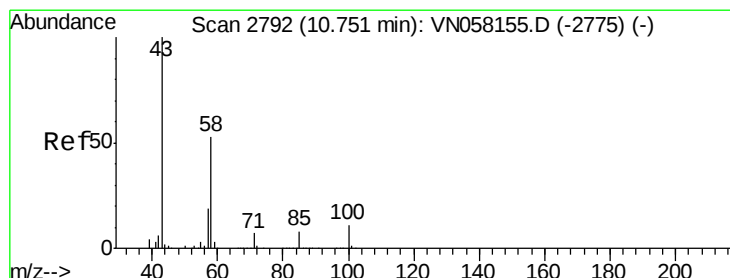
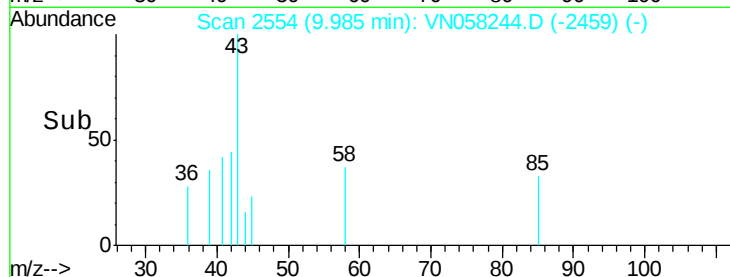
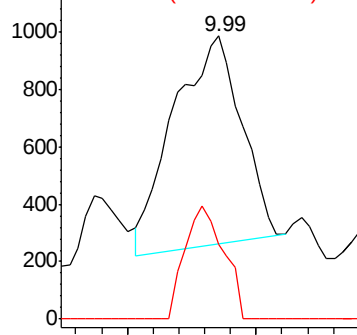
43 100

58 30.9 30.2 45.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#59

2-Hexanone

Concen: 0.247 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN058244.D

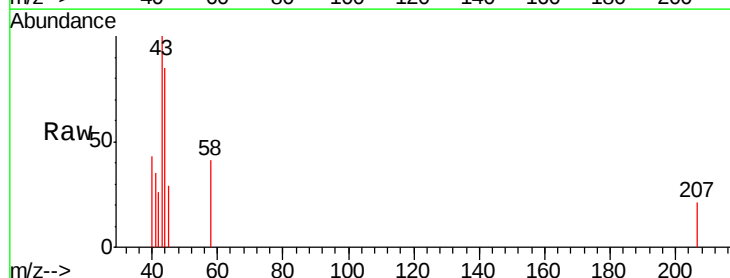
Acq: 20 Sep 2019 13:02

Tgt Ion: 43 Resp: 1063

Ion Ratio Lower Upper

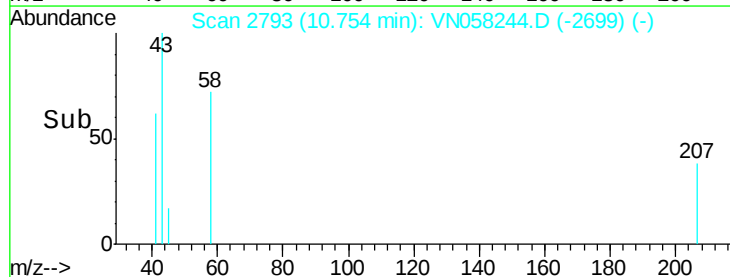
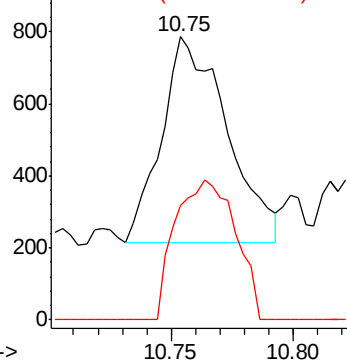
43 100

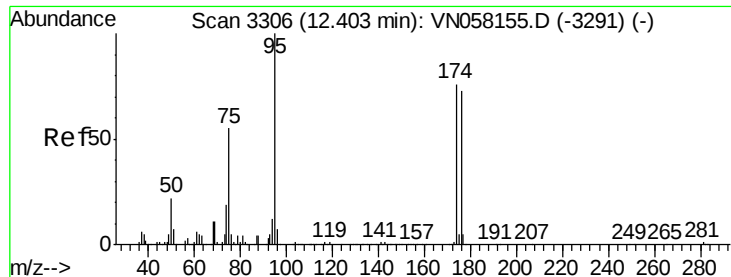
58 62.7 26.0 78.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 44.378 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBL02

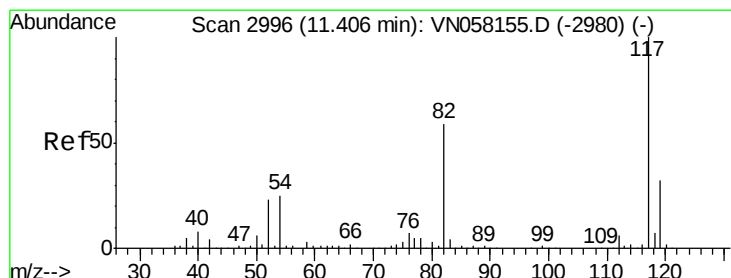
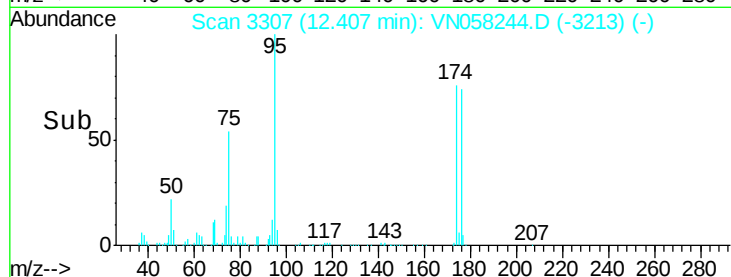
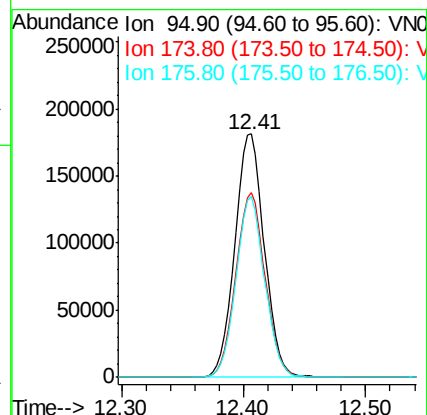
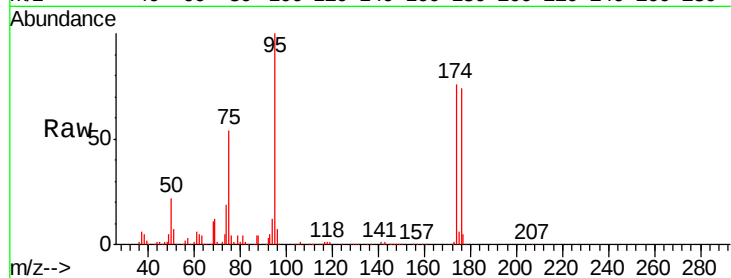
Tgt Ion: 95 Resp: 305291

Ion Ratio Lower Upper

95 100

174 75.5 0.0 152.2

176 72.4 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: VN058244.D

Acq: 20 Sep 2019 13:02

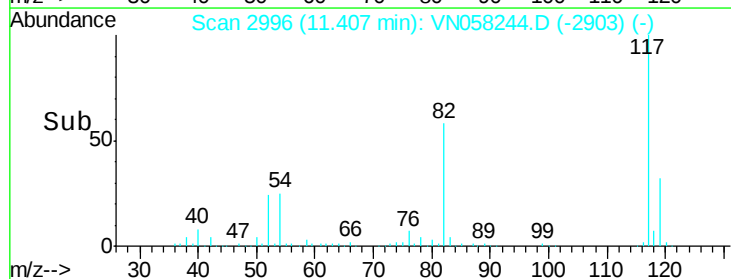
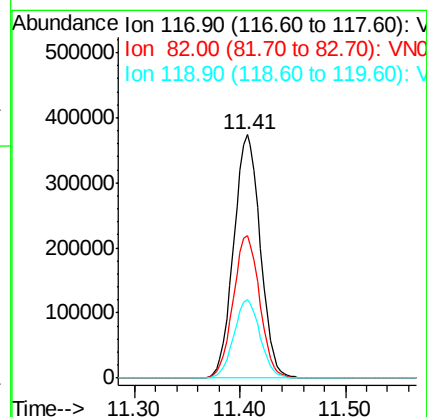
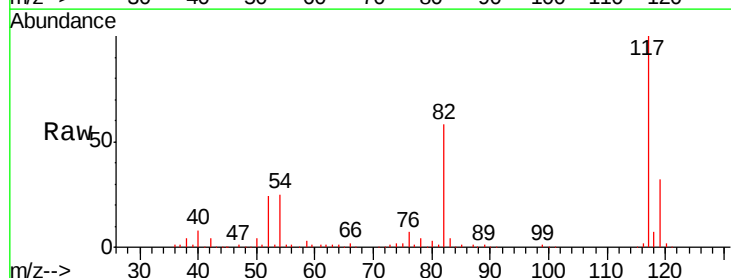
Tgt Ion: 117 Resp: 650387

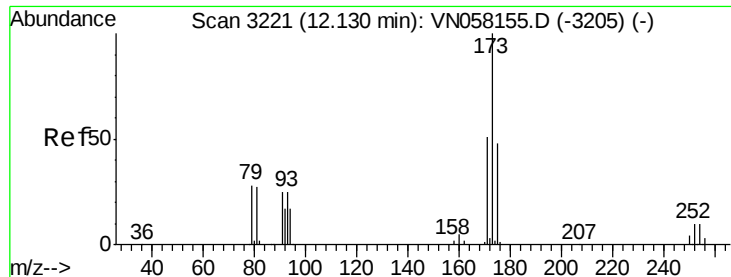
Ion Ratio Lower Upper

117 100

82 58.5 46.9 70.3

119 32.1 25.3 37.9





#71

Bromoform

Concen: 3.818 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

Instrument :

MSVOA_N

ClientSampled :

VN0920WBL02

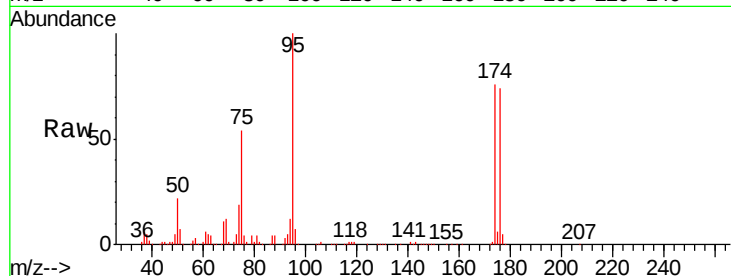
Tgt Ion:173 Resp: 740

Ion Ratio Lower Upper

173 100

175 2030.9 24.2 72.6#

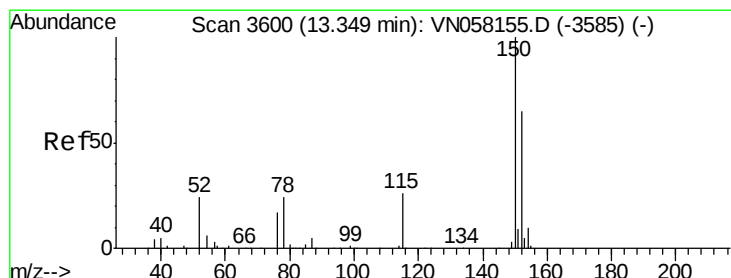
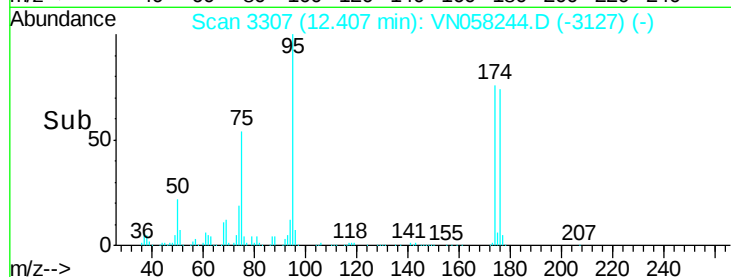
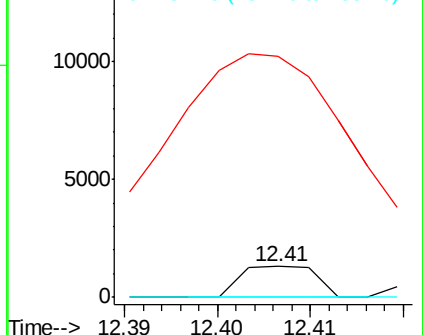
254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

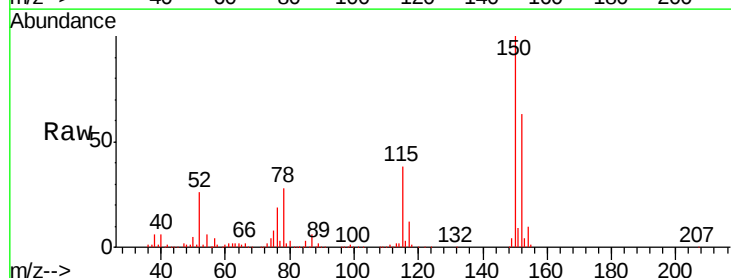
Tgt Ion:152 Resp: 262239

Ion Ratio Lower Upper

152 100

115 60.0 30.1 90.3

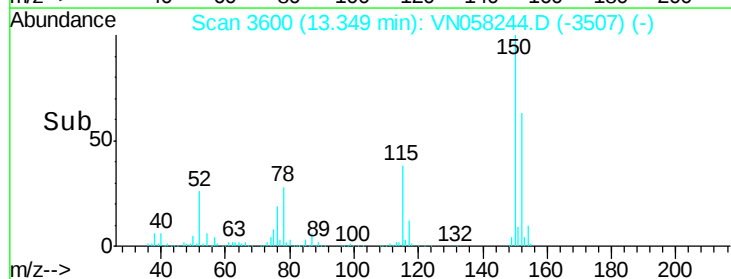
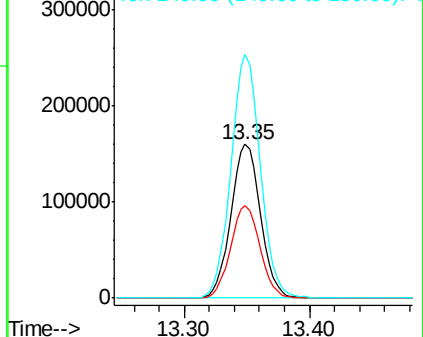
150 157.1 0.0 346.4

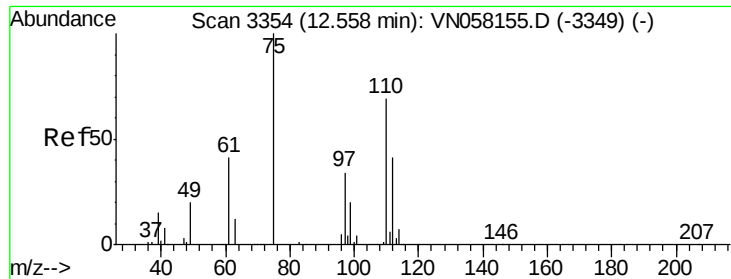


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.586 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

Instrument :

MSVOA_N

ClientSampleId :

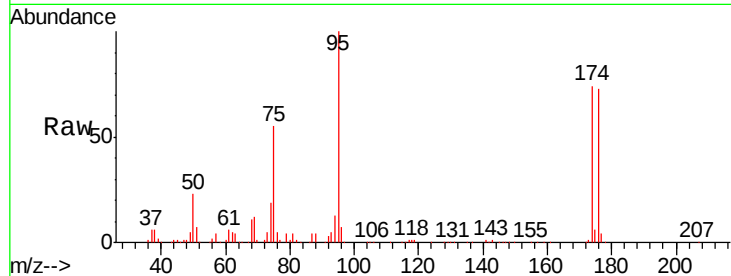
VN0920WBL02

Tgt Ion: 75 Resp: 167012

Ion Ratio Lower Upper

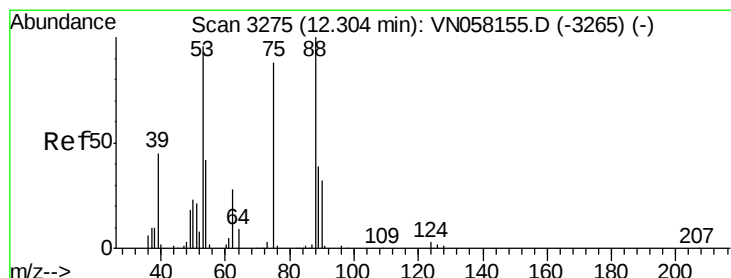
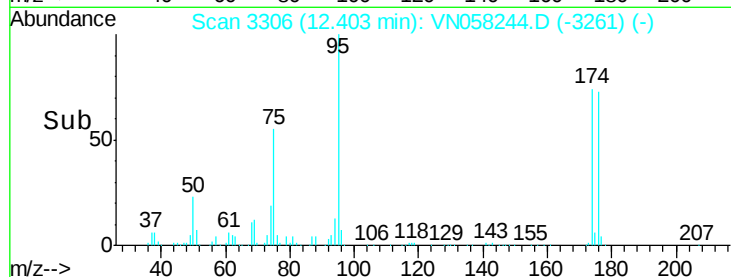
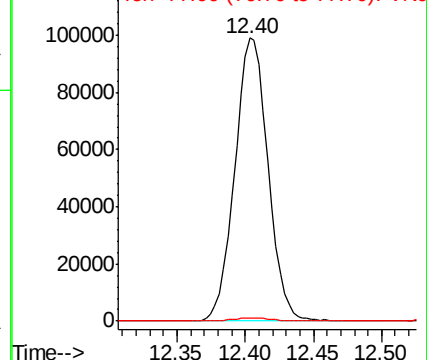
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 99.449 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058244.D

Acq: 20 Sep 2019 13:02

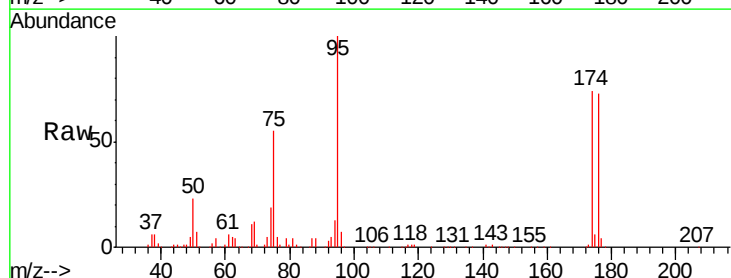
Tgt Ion: 75 Resp: 167012

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

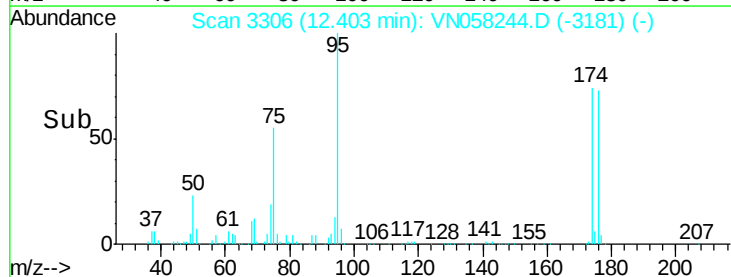
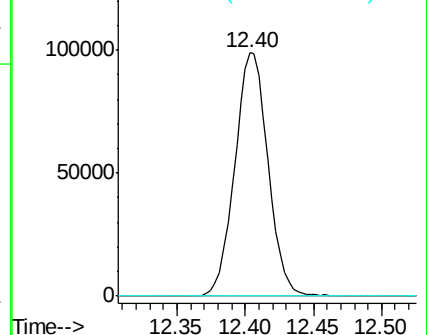
89 0.0 36.2 54.2#

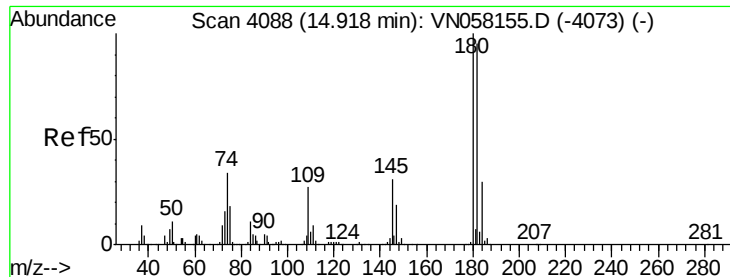


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

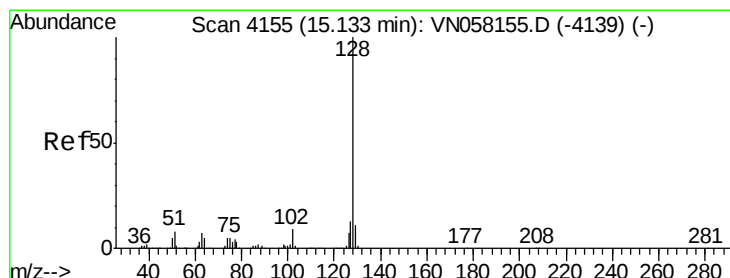
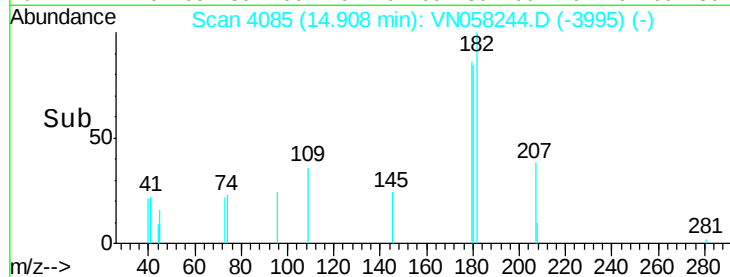
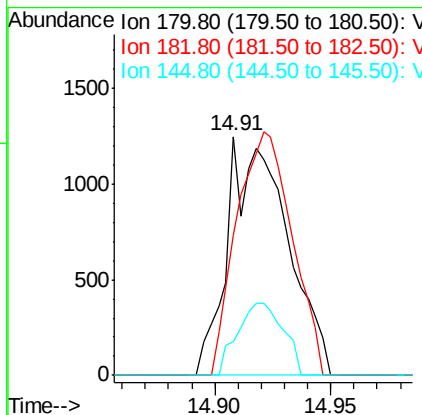
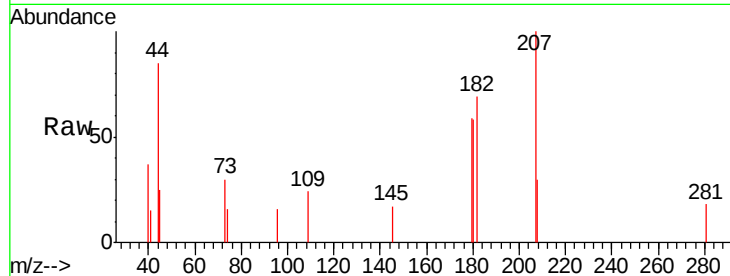




#93
 1,2,4-Trichlorobenzene
 Concen: 0.458 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.01 min
 Lab File: VN058244.D
 Acq: 20 Sep 2019 13:02

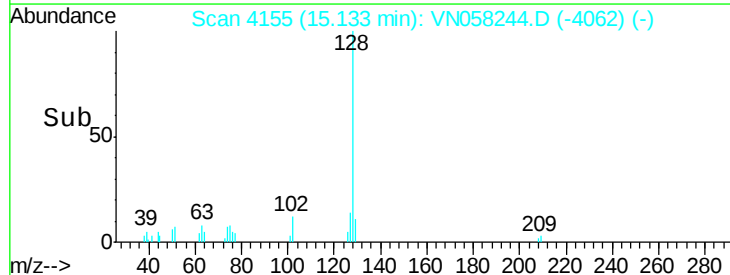
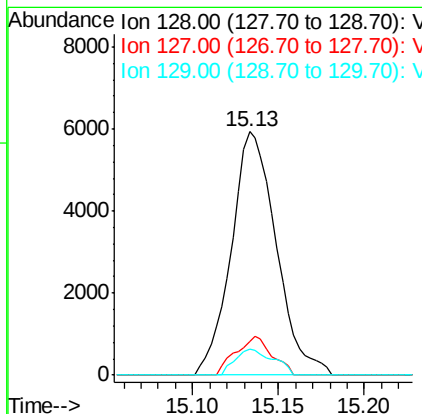
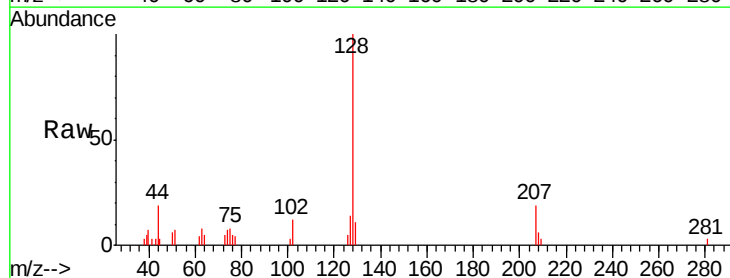
Instrument :
 MSVOA_N
 ClientSampled :
 VN0920WBL02

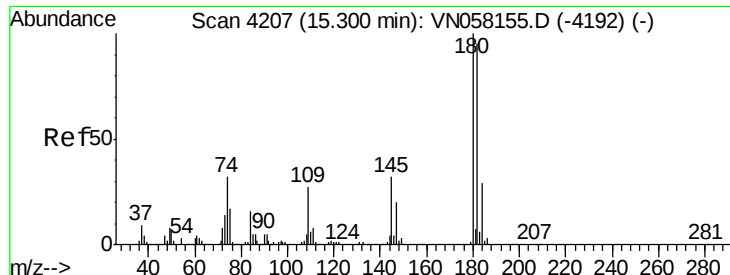
Tgt Ion:180 Resp: 2216
 Ion Ratio Lower Upper
 180 100
 182 95.1 47.8 143.3
 145 23.4 15.4 46.4



#95
 Naphthalene
 Concen: 0.861 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN058244.D
 Acq: 20 Sep 2019 13:02

Tgt Ion:128 Resp: 10787
 Ion Ratio Lower Upper
 128 100
 127 12.7 10.2 15.2
 129 8.9 8.6 12.8

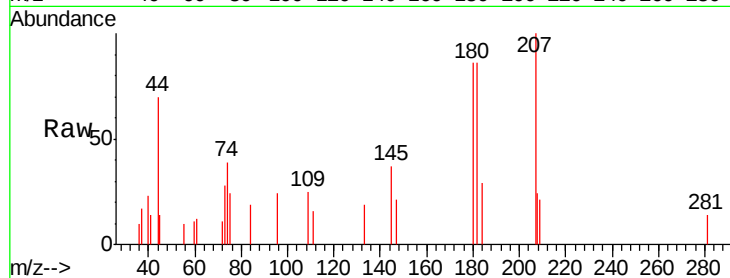




#96
 1,2,3-Trichlorobenzene
 Concen: 0.577 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. 0.01 min
 Lab File: VN058244.D
 Acq: 20 Sep 2019 13:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBL02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.5	47.4	142.2
145	36.8	16.1	48.2



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

