

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058317.D
 Acq On : 24 Sep 2019 1:08
 Operator : JC/SP
 Sample : K5002-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 07:07:38 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	454633	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	742555	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	623463	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	233476	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	340366	53.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.50%	
35) Dibromofluoromethane	7.58	113	236641	52.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.84%	
50) Toluene-d8	10.08	98	942840	53.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.22%	
62) 4-Bromofluorobenzene	12.41	95	287872	44.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.12%	

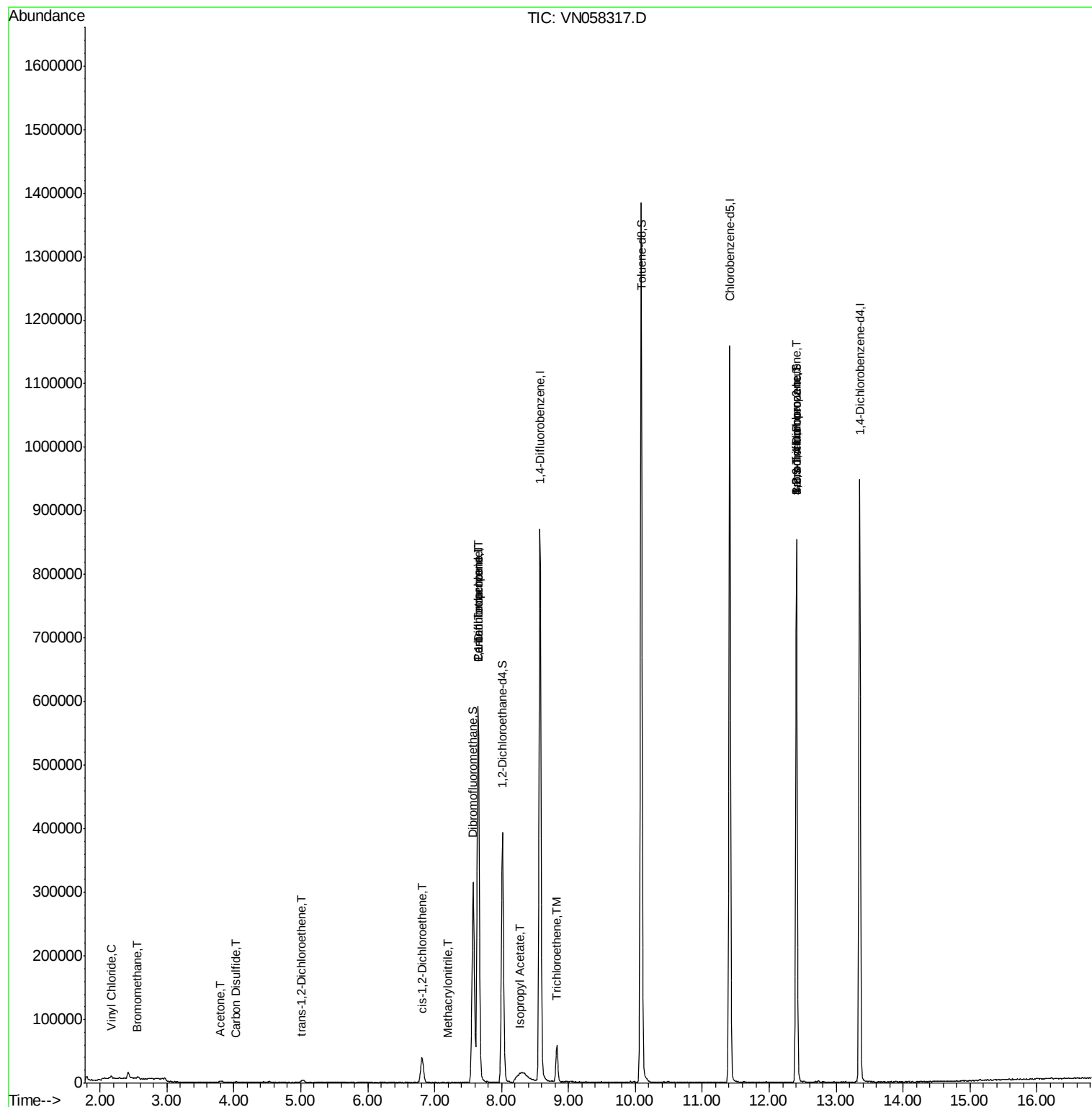
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	475	Below Cal	#	42
4) Vinyl Chloride	2.17	62	4790	0.627	ug/l #	87
5) Bromomethane	2.56	94	351	0.930	ug/l #	71
6) Chloroethane	2.68	64	30	Below Cal	#	44
16) Acetone	3.81	43	4629	2.154	ug/l	90
17) Carbon Disulfide	4.02	76	97	0.295	ug/l #	74
20) Methylene Chloride	4.54	84	369	Below Cal	#	45
21) trans-1,2-Dichloroethene	5.02	96	2636	0.468	ug/l #	79
27) cis-1,2-Dichloroethene	6.81	96	22427	4.864	ug/l	88
31) Cyclohexane	7.65	56	12252	Below Cal	#	3
36) 1,1-Dichloropropene	7.65	75	40139	7.496	ug/l #	50
38) Carbon Tetrachloride	7.65	117	46971	8.726	ug/l #	15
41) Methacrylonitrile	7.20	41	92	0.943	ug/l #	100
43) Isopropyl Acetate	8.27	43	18490	1.782	ug/l #	57
44) Trichloroethene	8.82	130	19447	4.859	ug/l	99
71) Bromoform	12.40	173	289	3.686	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	158406	37.910	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	158406	105.567	ug/l #	5

(#) = 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: VN058317.D

Acq: 24 Sep 2019 1:08

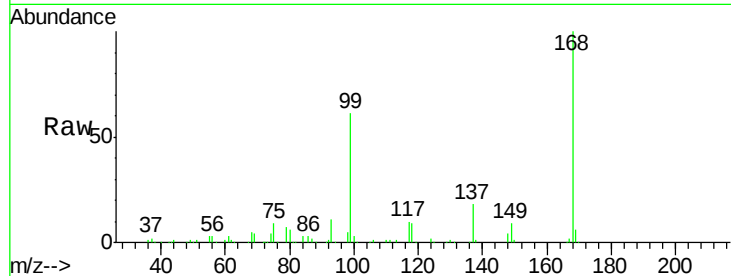
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 454633

Ion Ratio Lower Upper

168 100

99 61.0 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

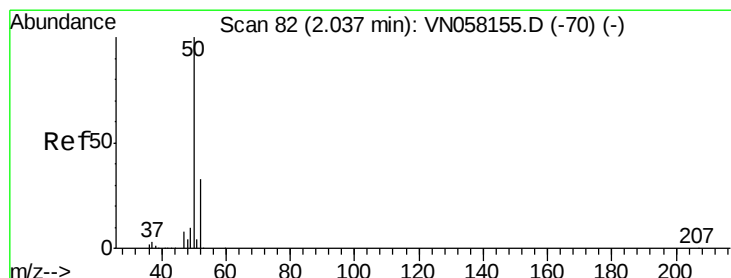
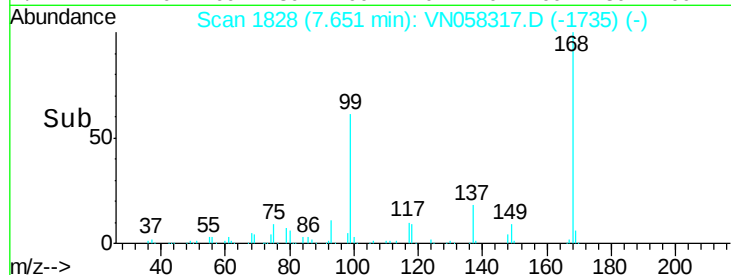
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058317.D

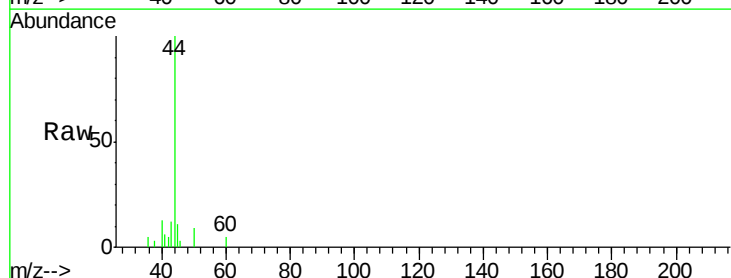
Acq: 24 Sep 2019 1:08

Tgt Ion: 50 Resp: 475

Ion Ratio Lower Upper

50 100

52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

500

400

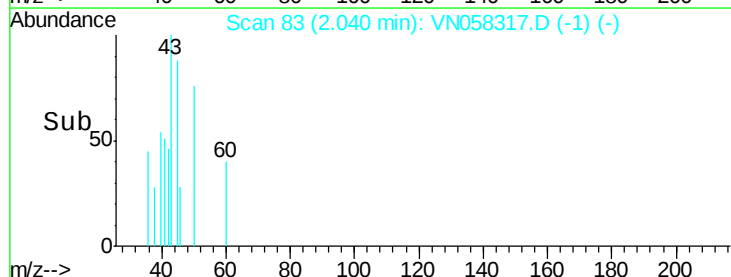
300

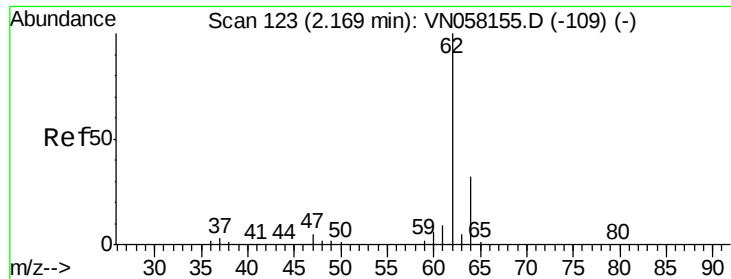
200

100

0

Time--> 2.00 2.02 2.04 2.06





#4

Vinyl Chloride

Concen: 0.627 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

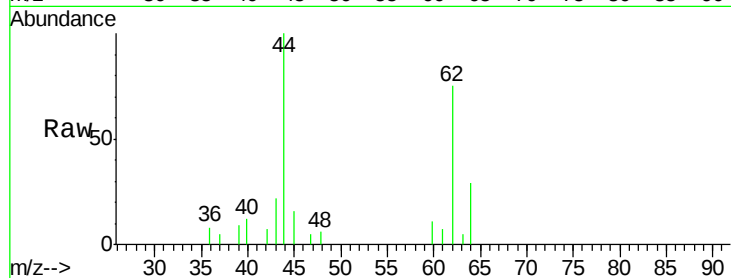
ClientSampled :

Tot Ion: 62 Resp: 4790

Ion Ratio Lower Upper

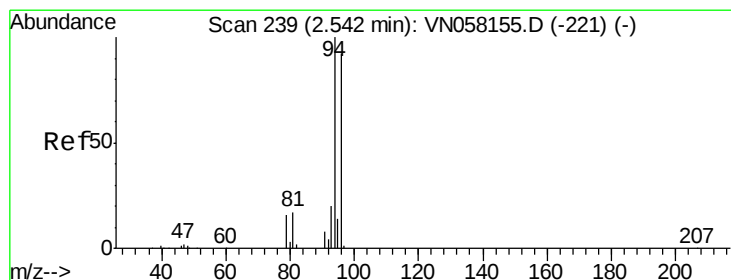
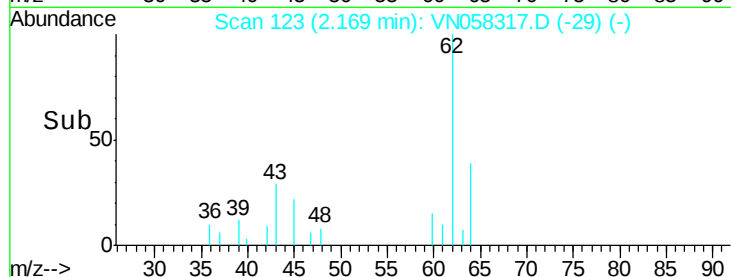
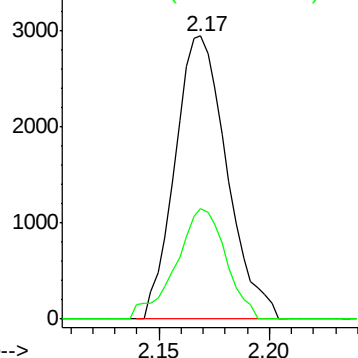
62 100

64 39.1 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



#5

Bromomethane

Concen: 0.930 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.02 min

Lab File: VN058317.D

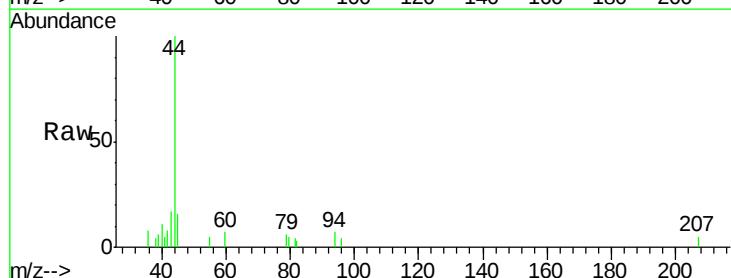
Acq: 24 Sep 2019 1:08

Tgt Ion: 94 Resp: 351

Ion Ratio Lower Upper

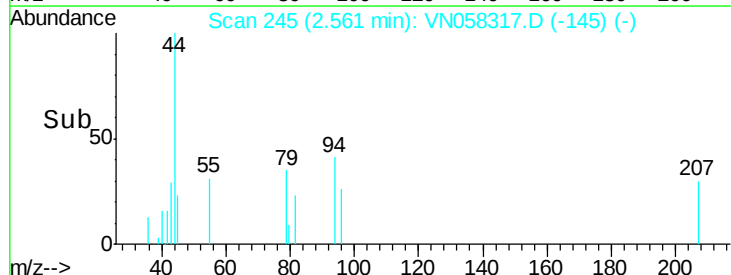
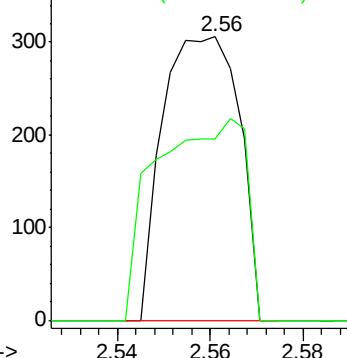
94 100

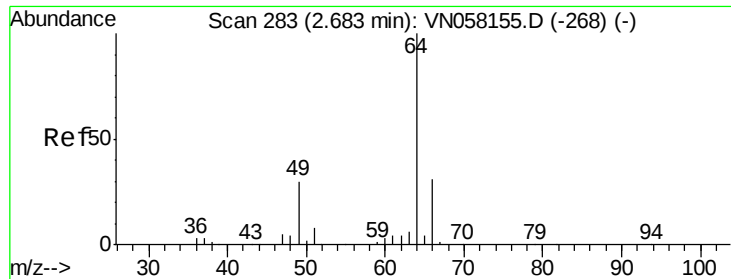
96 64.1 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 281

Delta R.T. -0.01 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

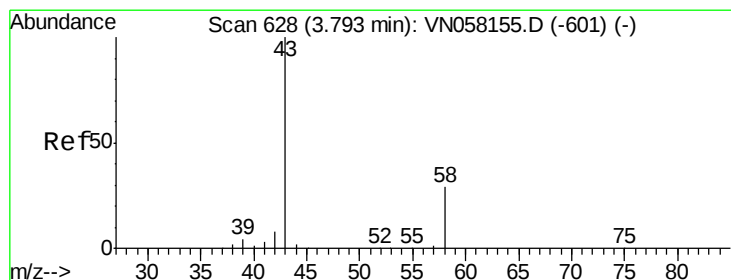
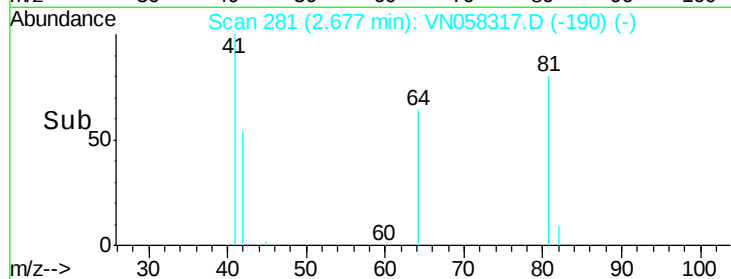
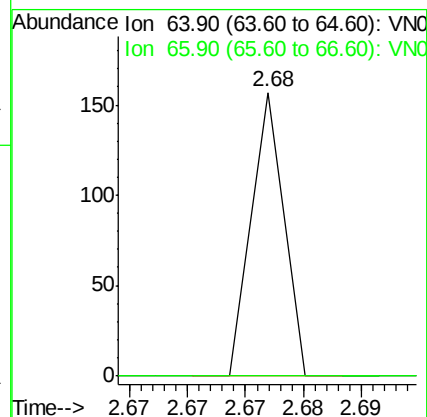
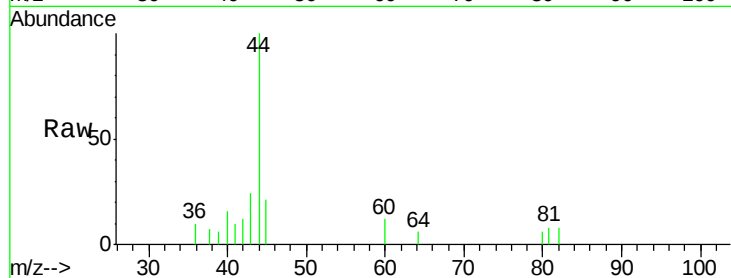
ClientSampled :

Tot Ion: 64 Resp: 30

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



#16

Acetone

Concen: 2.154 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058317.D

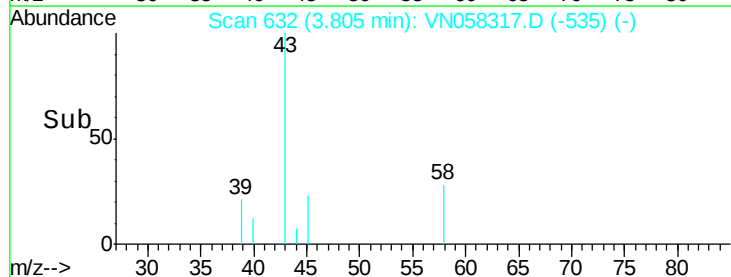
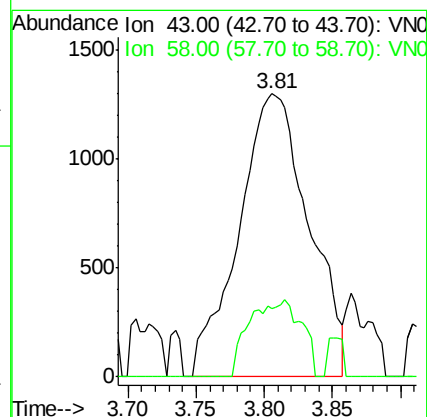
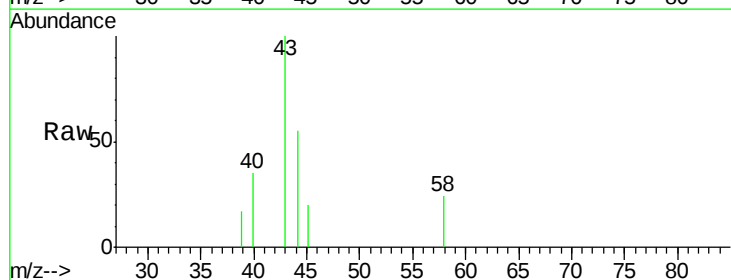
Acq: 24 Sep 2019 1:08

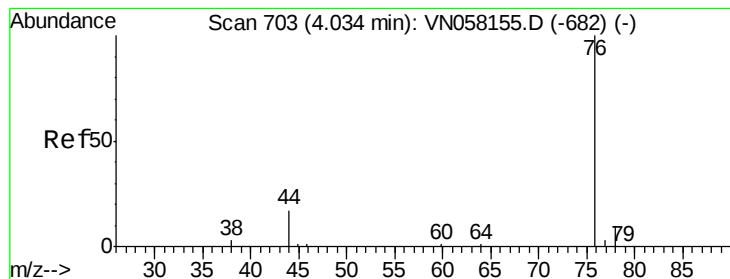
Tgt Ion: 43 Resp: 4629

Ion Ratio Lower Upper

43 100

58 24.0 23.4 35.2





#17

Carbon Disulfide

Concen: 0.295 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

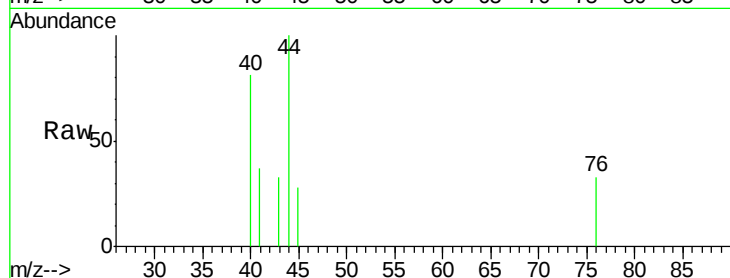
ClientSampled :

Tot Ion: 76 Resp: 97

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.02

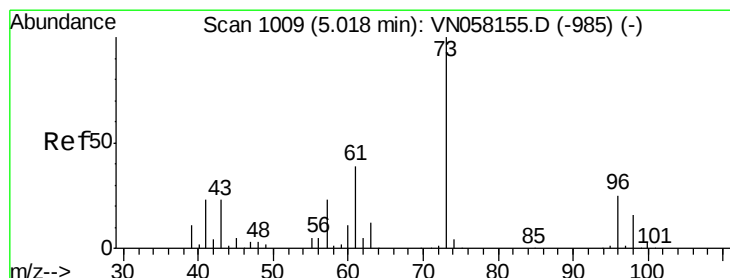
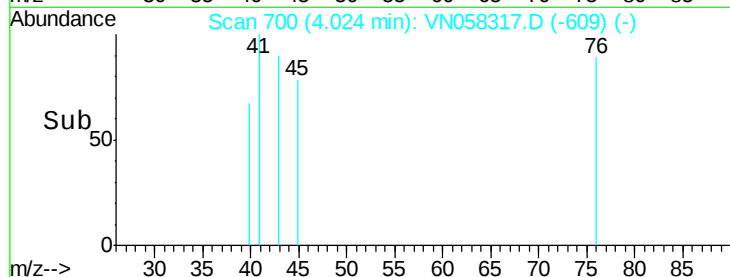
150

100

50

0

Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.468 ug/l

RT: 5.02 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

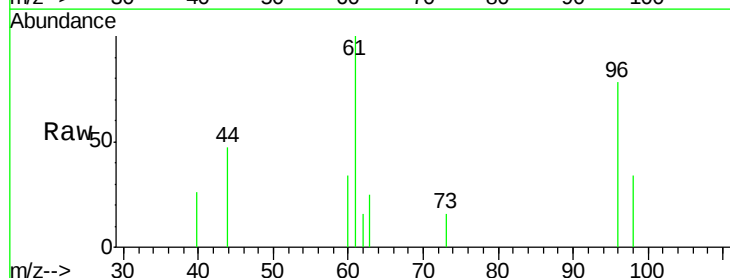
Tgt Ion: 96 Resp: 2636

Ion Ratio Lower Upper

96 100

61 128.1 122.2 183.4

98 43.1 49.9 74.9#



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

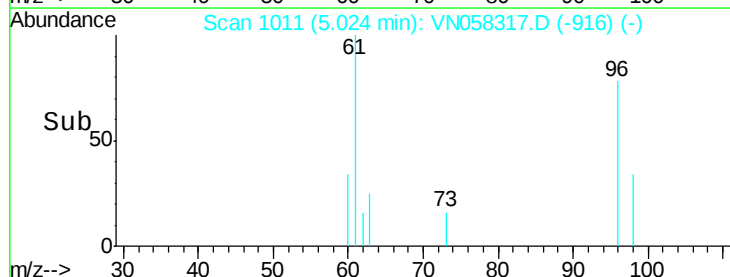
1500

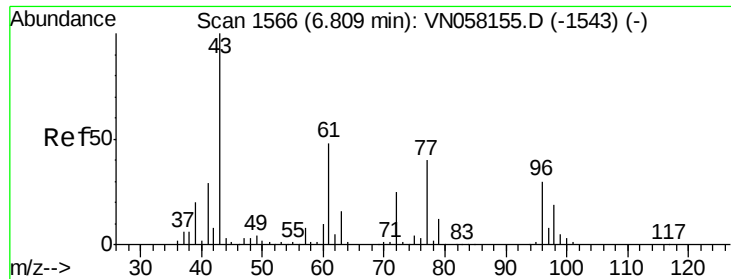
1000

500

0

Time-->





#27

cis-1,2-Dichloroethene

Concen: 4.864 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :
MSVOA_N
ClientSampled :

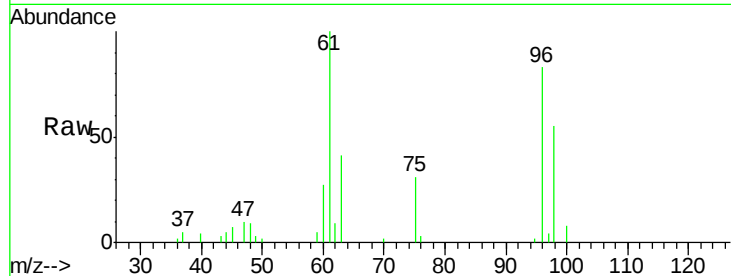
Tot Ion: 96 Resp: 22427

Ion Ratio Lower Upper

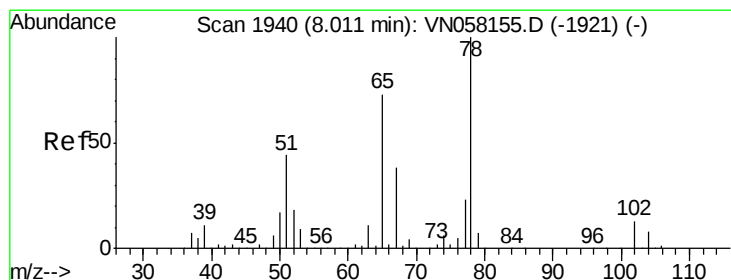
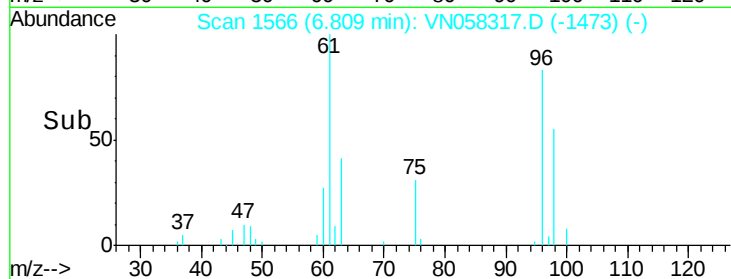
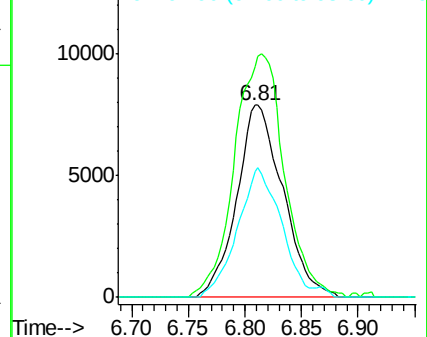
96 100

61 137.2 0.0 319.0

98 63.7 0.0 126.6



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.752 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058317.D

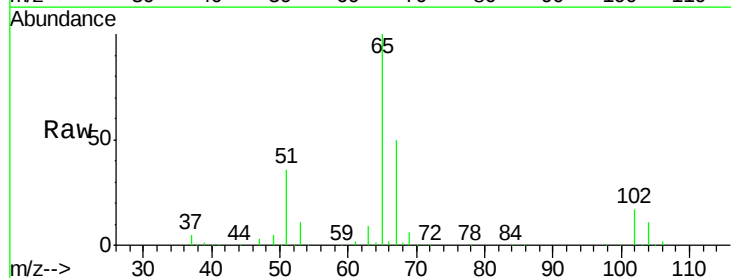
Acq: 24 Sep 2019 1:08

Tgt Ion: 65 Resp: 340366

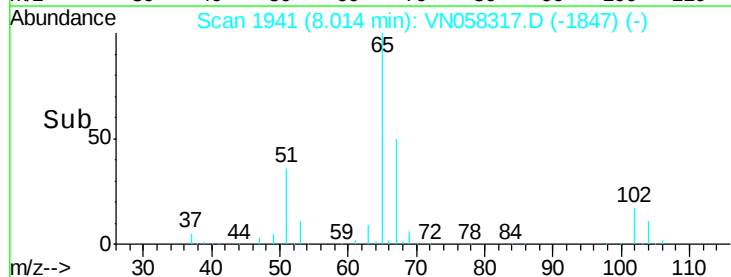
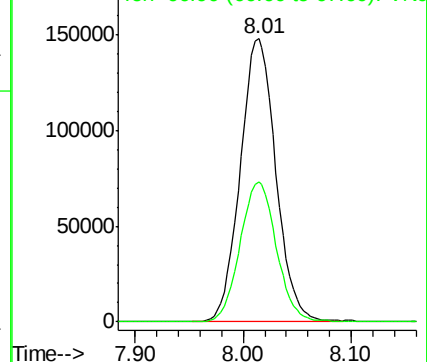
Ion Ratio Lower Upper

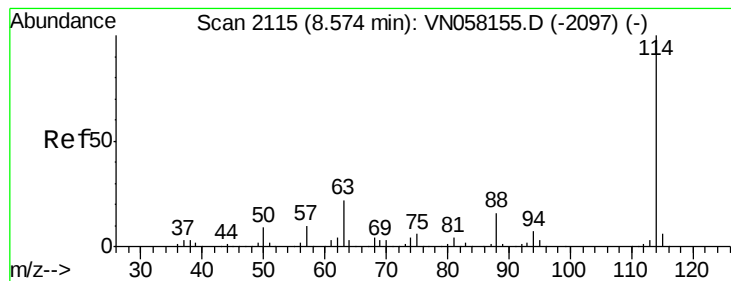
65 100

67 50.5 0.0 103.4



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: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

ClientSampleId :

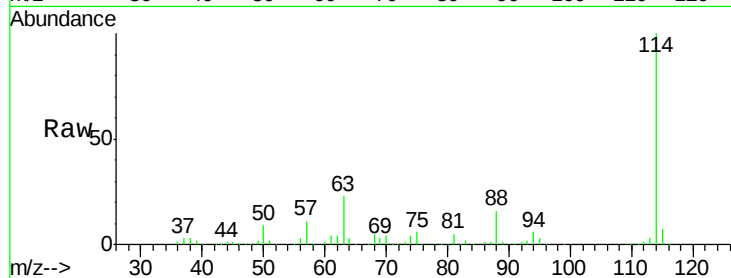
Tot Ion:114 Resp: 742555

Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.2

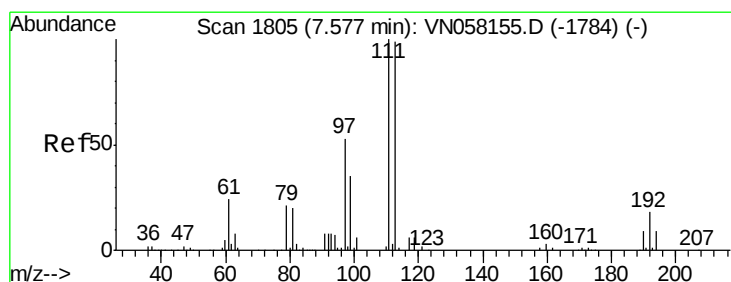
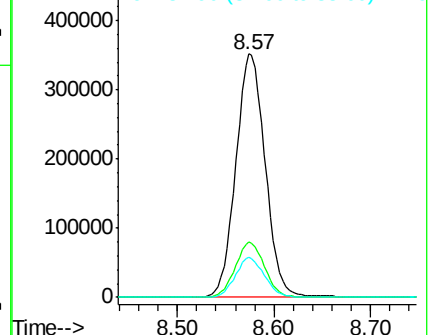
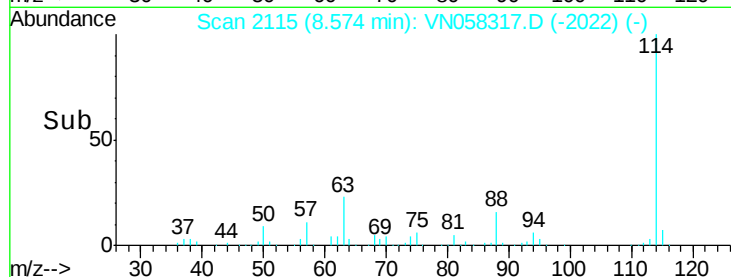
88 16.3 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 52.422 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

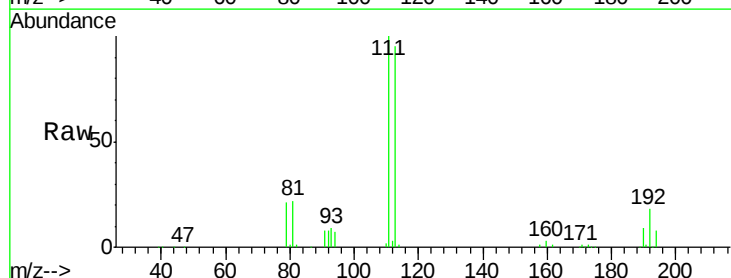
Tgt Ion:113 Resp: 236641

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.6

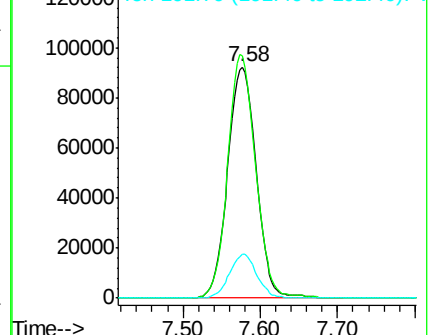
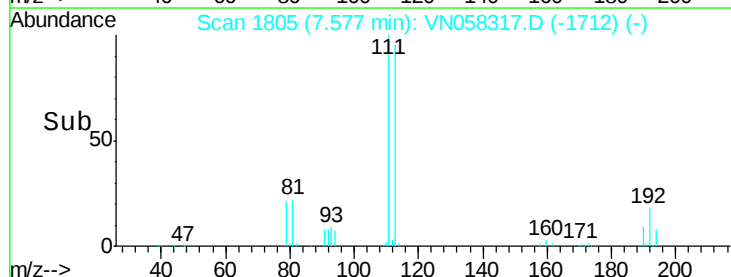
192 18.2 14.5 21.7

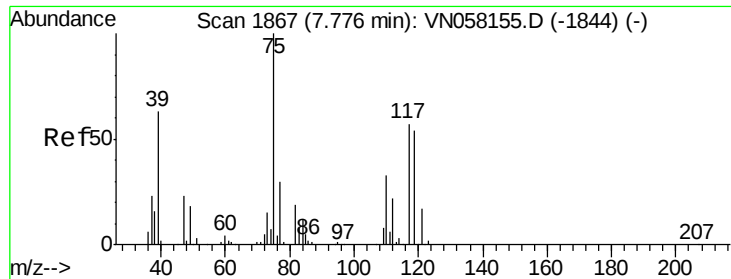


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

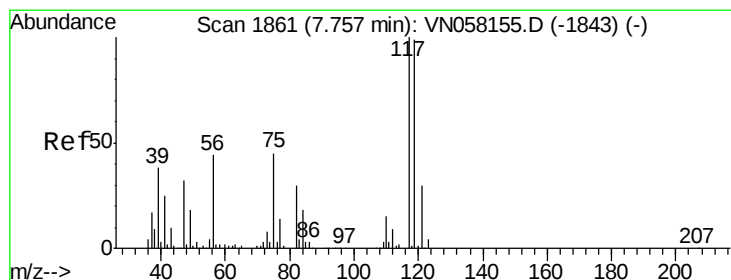
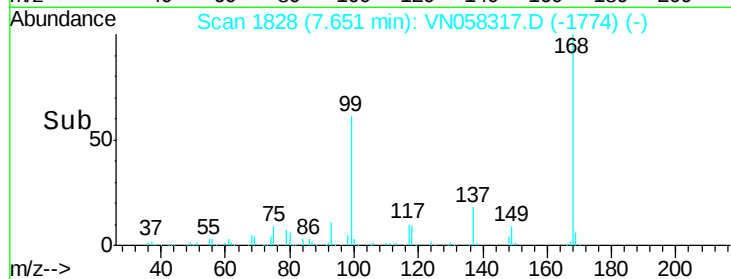
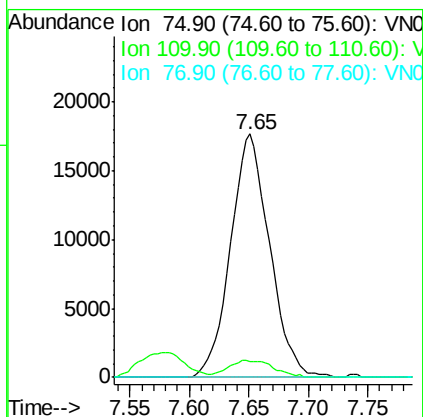
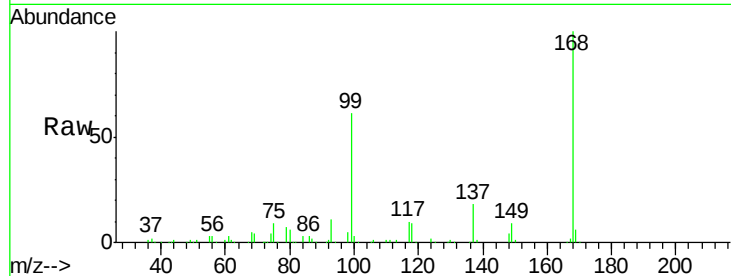




#36
 1,1-Dichloropropene
 Concen: 7.496 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058317.D
 Acq: 24 Sep 2019 1:08

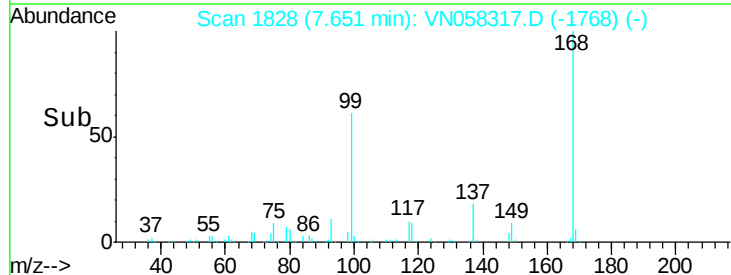
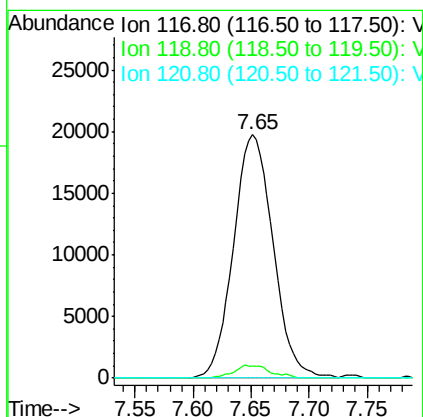
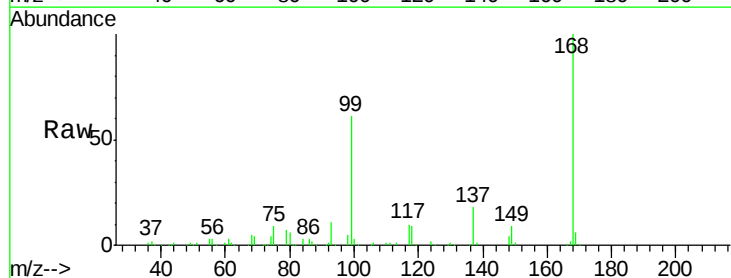
Instrument :
 MSVOA_N
 ClientSampled :

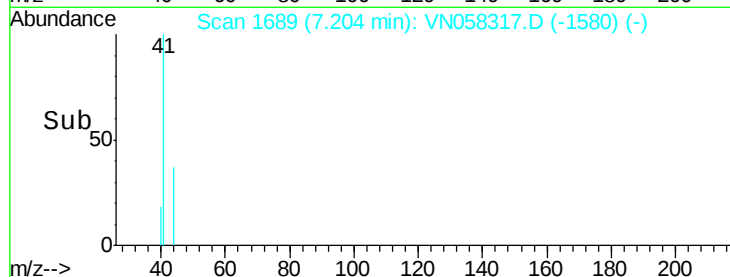
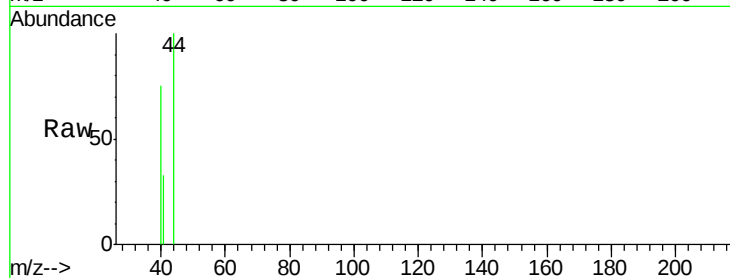
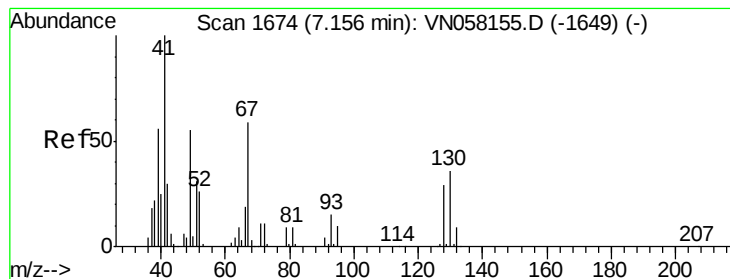
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.726 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058317.D
 Acq: 24 Sep 2019 1:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	78.6	117.8#
121	0.0	24.1	36.1#





#41

Methacrylonitrile

Concen: 0.943 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.05 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 41 Resp: 92

Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

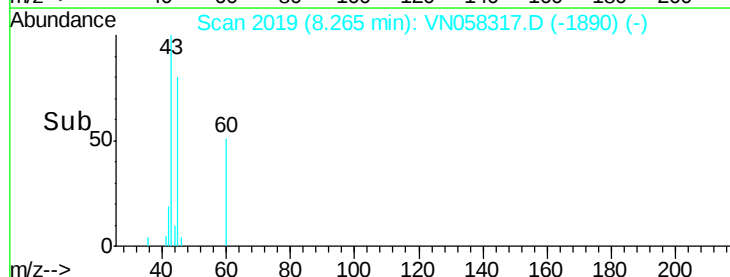
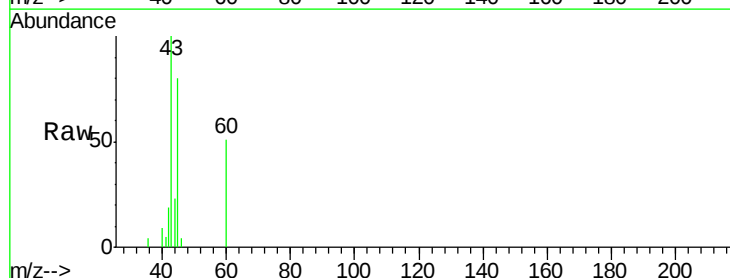
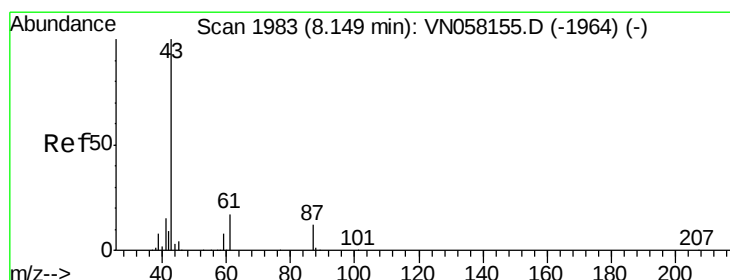
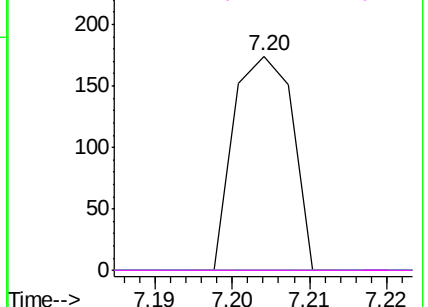
52 0.0 0.0 0.0

Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#43

Isopropyl Acetate

Concen: 1.782 ug/l

RT: 8.27 min Scan# 2019

Delta R.T. 0.12 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Tgt Ion: 43 Resp: 18490

Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#

43 100

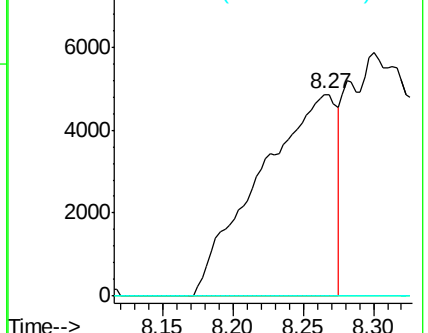
61 0.0 19.7 29.5#

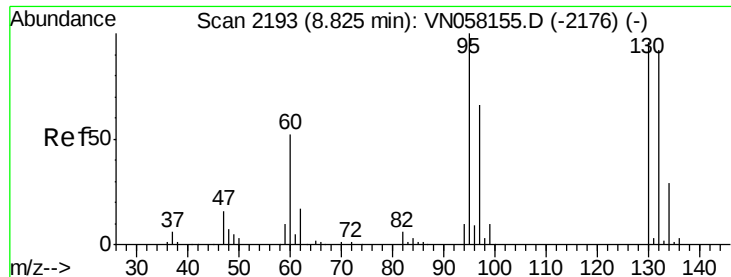
87 0.0 9.4 14.2#

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





#44

Trichloroethene

Concen: 4.859 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

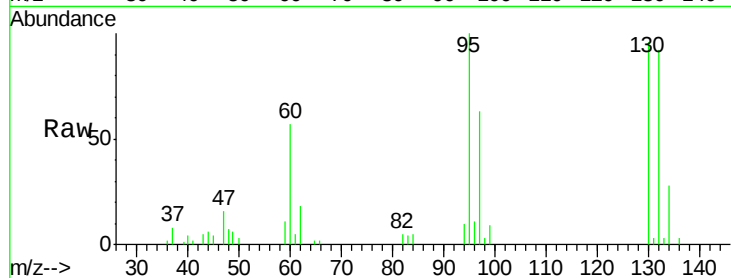
ClientSampled :

Tot Ion:130 Resp: 19447

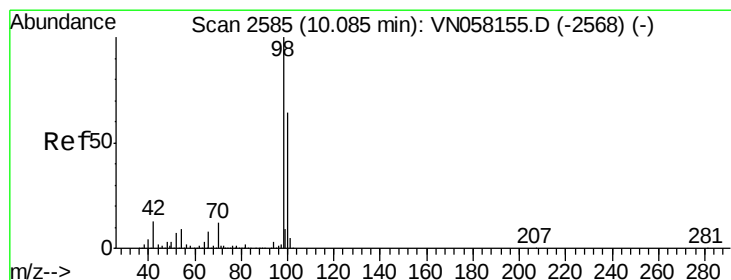
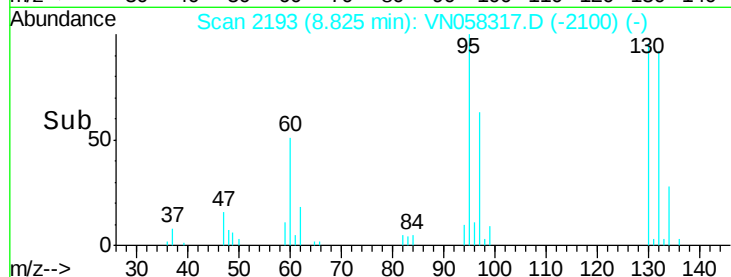
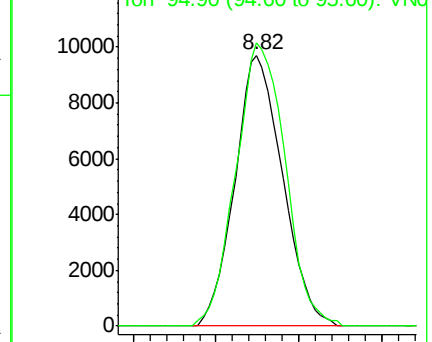
Ion Ratio Lower Upper

130 100

95 104.4 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): VN058317.D (-2100) (-)



#50

Toluene-d8

Concen: 53.607 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058317.D

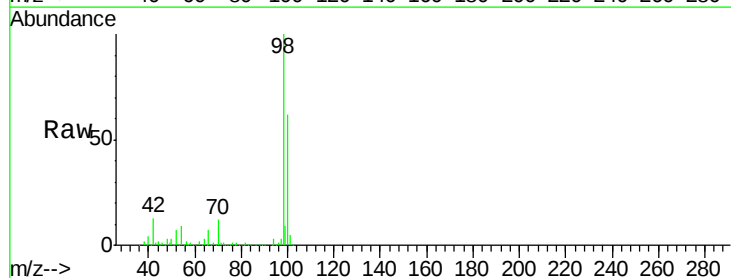
Acq: 24 Sep 2019 1:08

Tgt Ion: 98 Resp: 942840

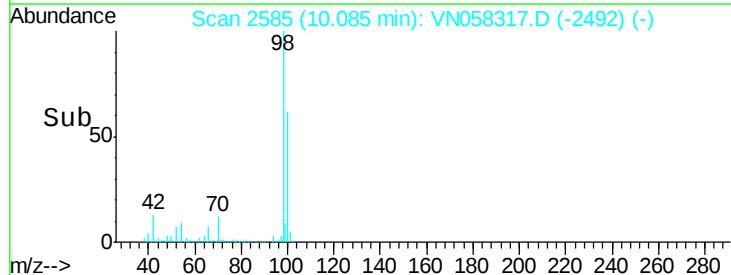
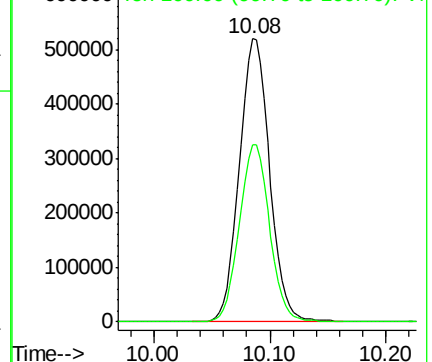
Ion Ratio Lower Upper

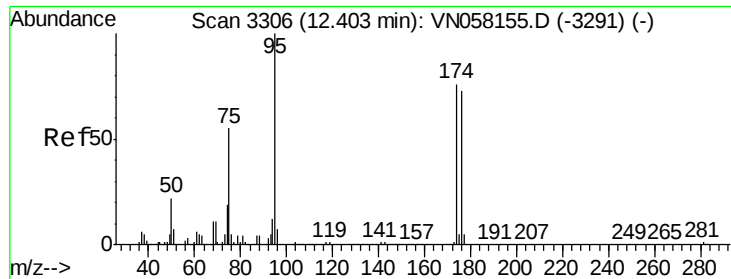
98 100

100 62.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN058317.D (-2492) (-)





#62

4-Bromofluorobenzene

Concen: 44.063 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

ClientSampleId :

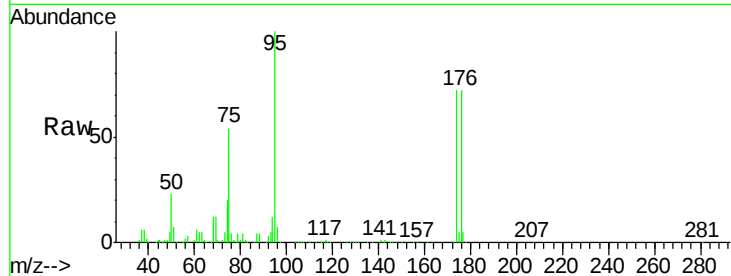
Tot Ion: 95 Resp: 287872

Ion Ratio Lower Upper

95 100

174 73.5 0.0 152.2

176 71.9 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): VN058155.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058155.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058155.D (-3291) (-)

12.41

200000

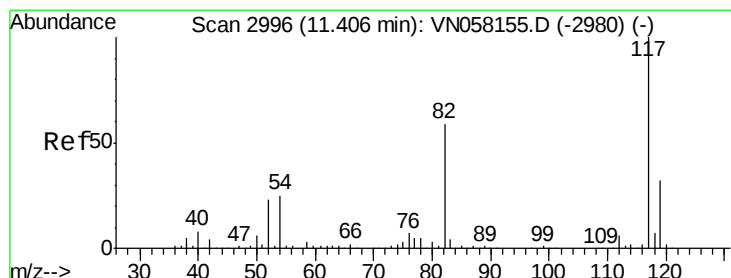
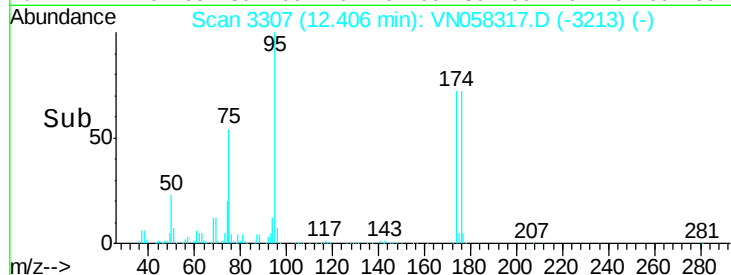
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

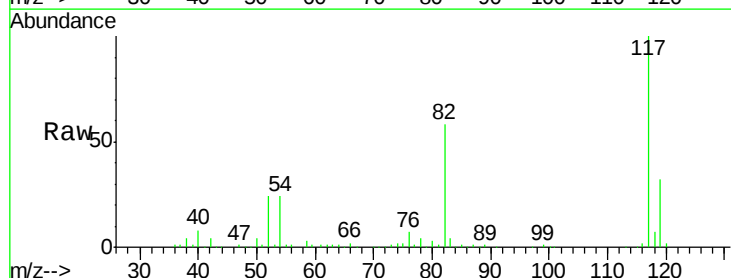
Tgt Ion: 117 Resp: 623463

Ion Ratio Lower Upper

117 100

82 58.2 46.9 70.3

119 32.1 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN058155.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058155.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058155.D (-2980) (-)

11.41

500000

400000

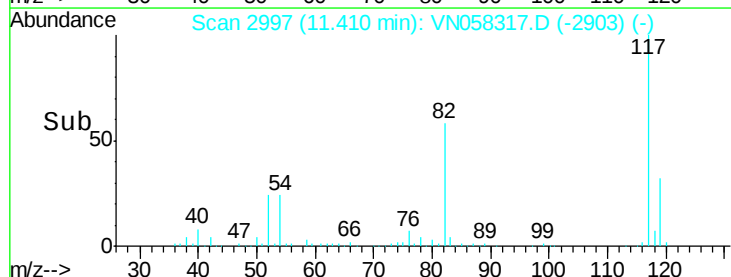
300000

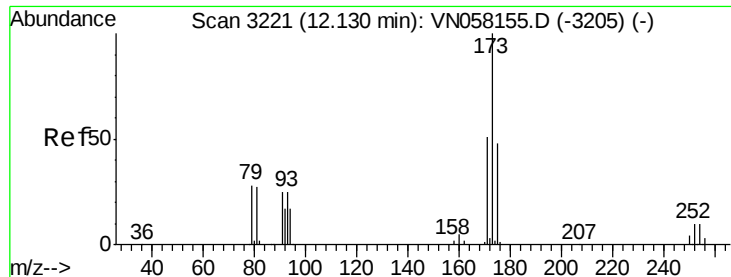
200000

100000

0

Time-->





#71

Bromoform

Concen: 3.686 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

ClientSampleId :

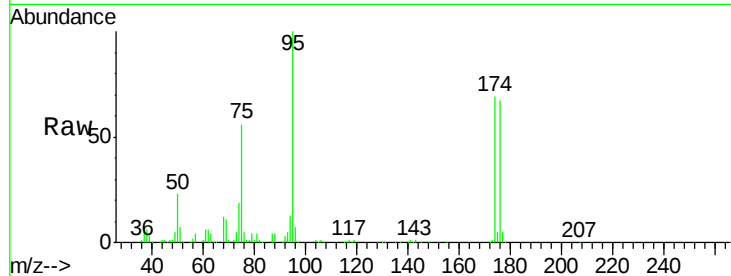
Tot Ion:173 Resp: 289

Ion Ratio Lower Upper

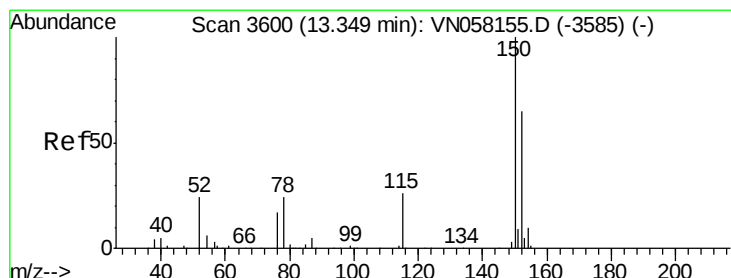
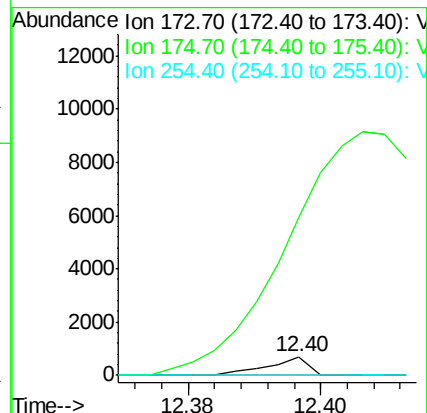
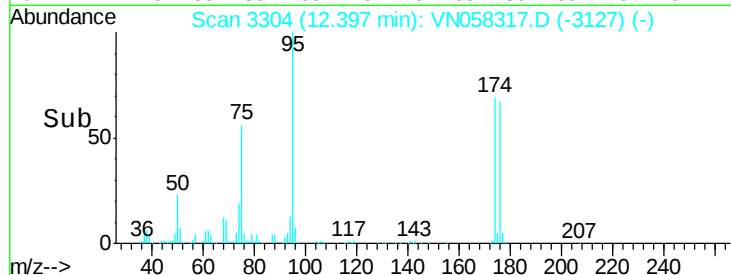
173 100

175 4382.0 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# 3601

Delta R.T. 0.00 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

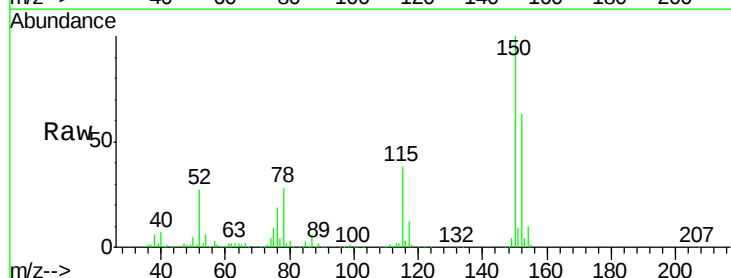
Tgt Ion:152 Resp: 233476

Ion Ratio Lower Upper

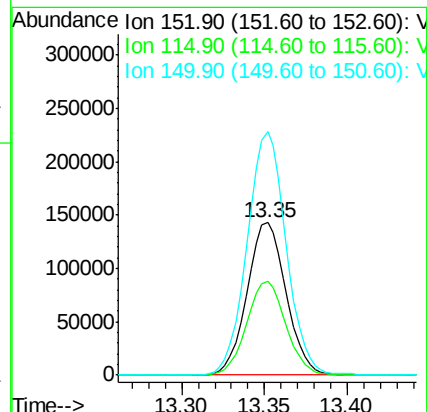
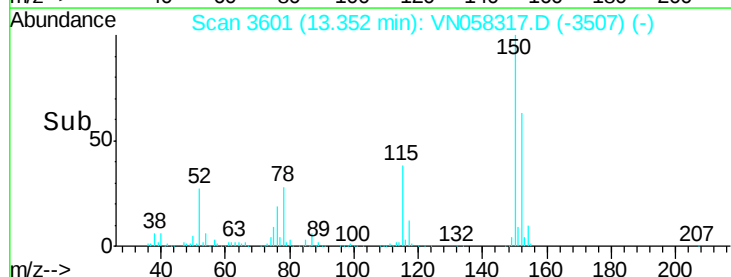
152 100

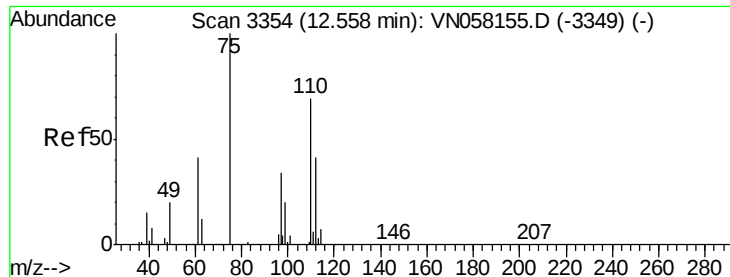
115 61.9 30.1 90.3

150 160.1 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: 37.910 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

Instrument :

MSVOA_N

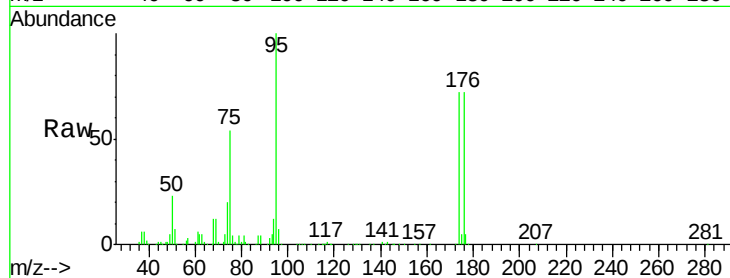
ClientSampled :

Tot Ion: 75 Resp: 158406

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.41

100000

80000

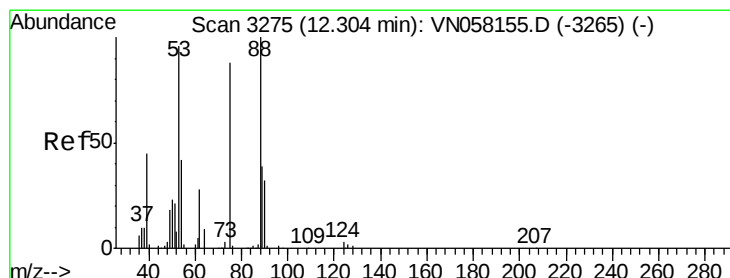
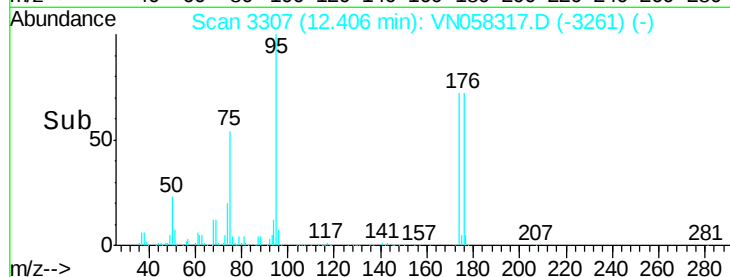
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 105.567 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058317.D

Acq: 24 Sep 2019 1:08

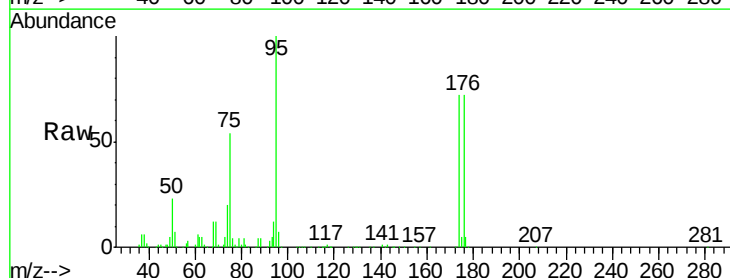
Tgt Ion: 75 Resp: 158406

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.41

120000

100000

80000

60000

40000

20000

0

Time--> 12.30 12.40 12.50

