

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093019\
 Data File : VN058426.D
 Acq On : 30 Sep 2019 11:53
 Operator : JC/SP
 Sample : K5080-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 01 01:29:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	444157	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	727733	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	611958	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	236587	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	317473	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
35) Dibromofluoromethane	7.57	113	228708	51.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.56%	
50) Toluene-d8	10.09	98	901333	51.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.18%	
62) 4-Bromofluorobenzene	12.41	95	282685	44.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.48%	

Target Compounds

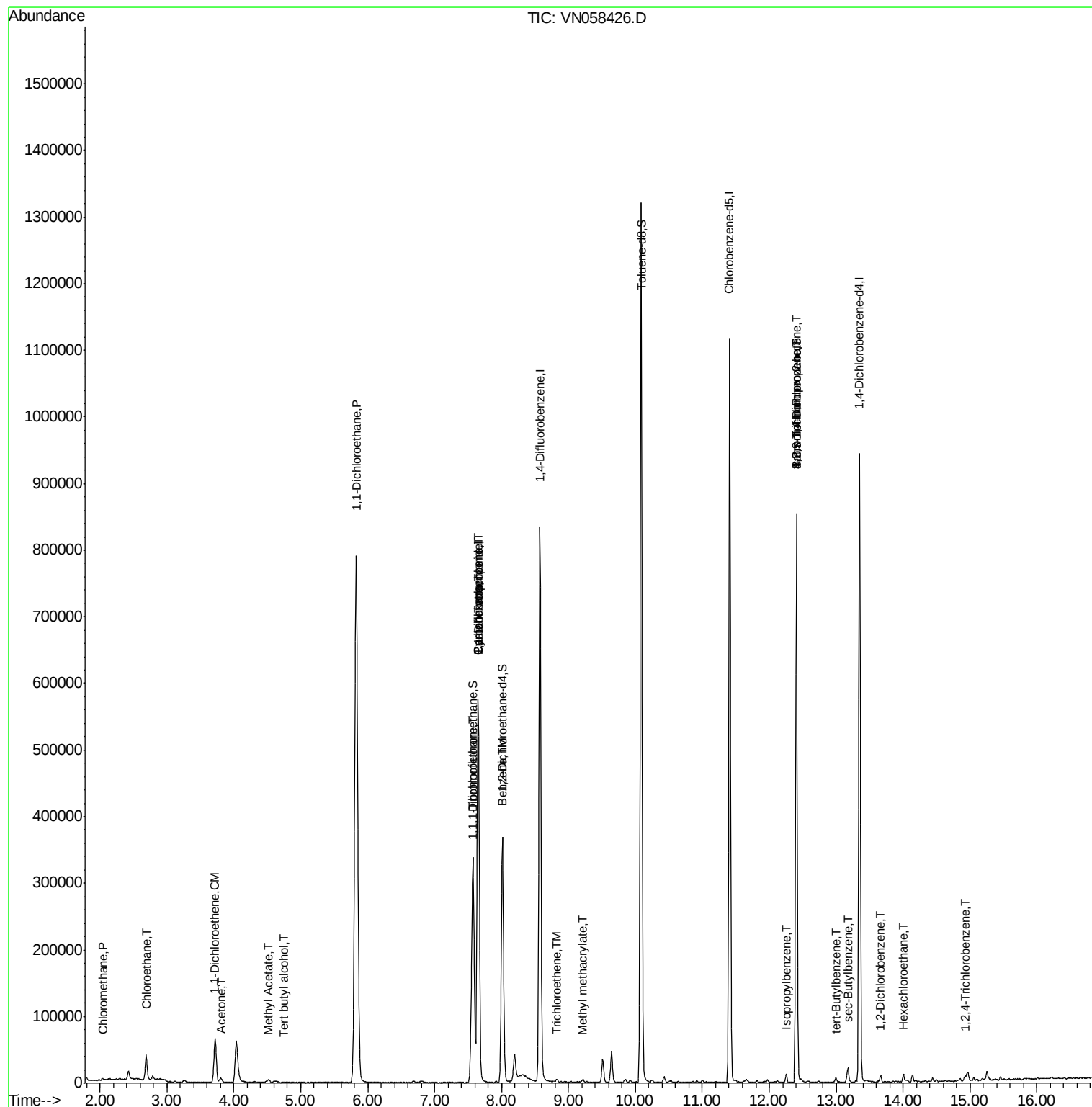
					Qvalue	
3) Chloromethane	2.04	50	1646	0.307	ug/l #	87
6) Chloroethane	2.69	64	35225	11.209	ug/l	97
11) Tert butyl alcohol	4.75	59	709	0.983	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	32676	7.799	ug/l	95
16) Acetone	3.81	43	12219	5.522	ug/l	92
18) Methyl Acetate	4.51	43	3466	0.623	ug/l #	53
24) 1,1-Dichloroethane	5.83	63	1224030	132.548	ug/l	99
31) Cyclohexane	7.65	56	11717	1.304	ug/l #	16
32) 1,1,1-Trichloroethane	7.55	97	56882	7.402	ug/l	99
36) 1,1-Dichloropropene	7.65	75	37616	5.406	ug/l #	52
38) Carbon Tetrachloride	7.65	117	45922	7.311	ug/l #	16
40) Benzene	8.03	78	6816	0.341	ug/l	98
44) Trichloroethene	8.83	130	1652	0.334	ug/l	90
48) Methyl methacrylate	9.22	41	1340	0.265	ug/l #	21
60) Dibromochloromethane	10.64	129	67	Below Cal	#	11
71) Bromoform	12.41	173	1183	1.107	ug/l #	1
73) Isopropylbenzene	12.25	105	8205	0.469	ug/l	100
76) 1,2,3-Trichloropropane	12.41	75	155453	35.974	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	155453	109.257	ug/l #	7
83) tert-Butylbenzene	12.99	119	3346	0.271	ug/l	93
85) sec-Butylbenzene	13.18	105	14684	0.903	ug/l	92
90) Hexachloroethane	14.00	117	6116	2.845	ug/l #	11
91) 1,2-Dichlorobenzene	13.66	146	3566	0.499	ug/l	91
93) 1,2,4-Trichlorobenzene	14.92	180	1246	0.316	ug/l #	1

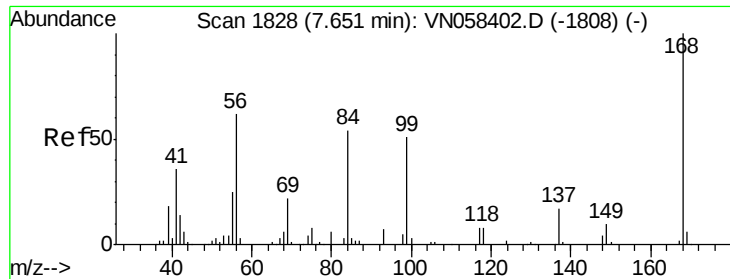
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 30 08:07:38 2019
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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: VN058426.D

Acq: 30 Sep 2019 11:53

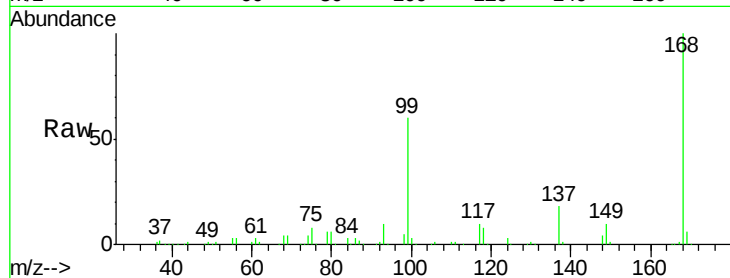
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 444157

Ion Ratio Lower Upper

168 100

99 59.8 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

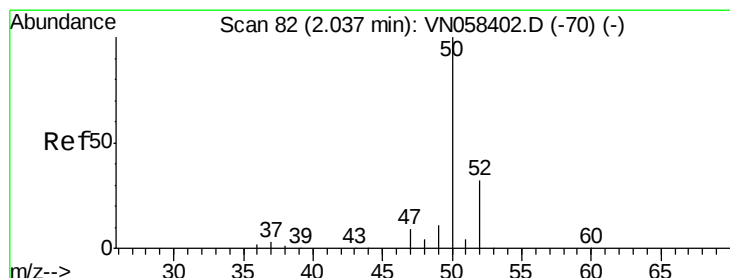
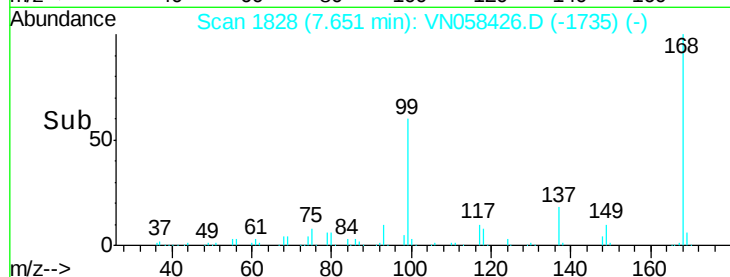
100000

50000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.307 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058426.D

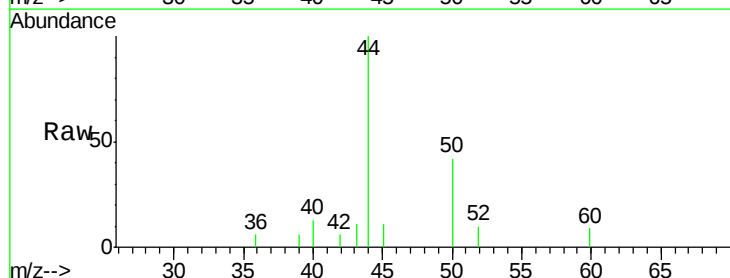
Acq: 30 Sep 2019 11:53

Tgt Ion: 50 Resp: 1646

Ion Ratio Lower Upper

50 100

52 25.0 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1500

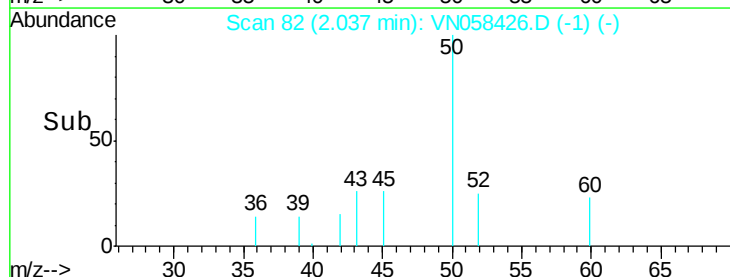
1000

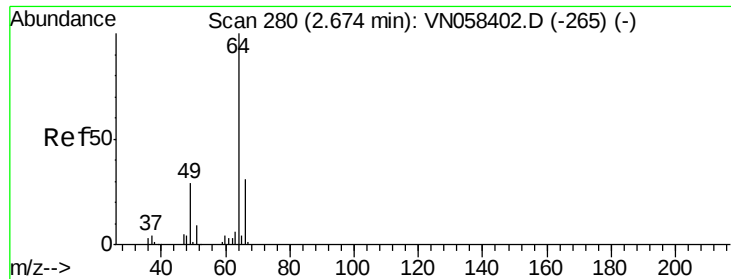
500

0

2.00 2.02 2.04 2.06 2.08

Time-->





#6

Chloroethane

Concen: 11.209 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.02 min

Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

Instrument :

MSVOA_N

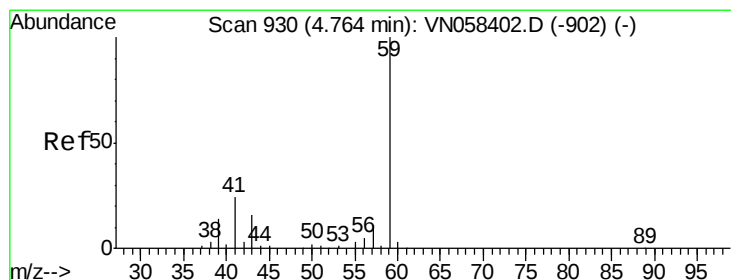
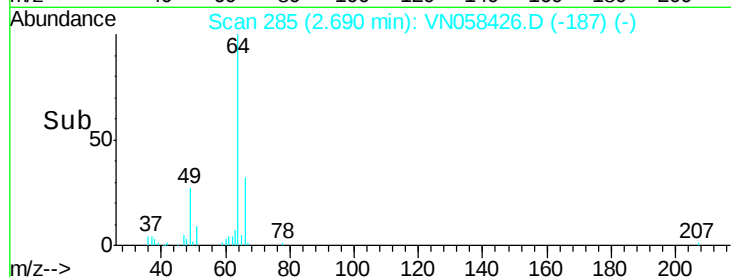
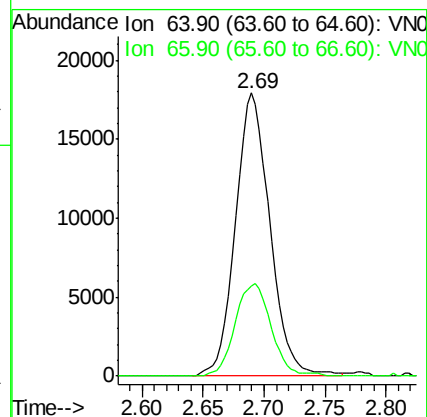
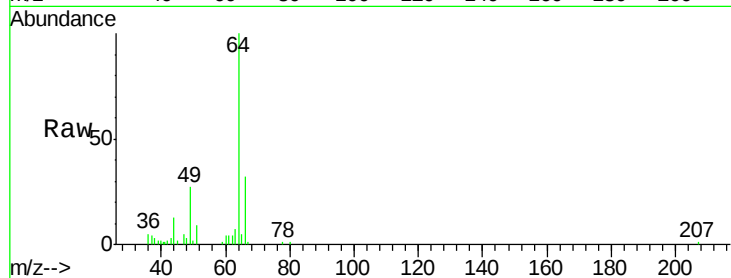
ClientSampleId :

Tot Ion: 64 Resp: 35225

Ion Ratio Lower Upper

64 100

66 32.1 24.4 36.6



#11

Tert butyl alcohol

Concen: 0.983 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN058426.D

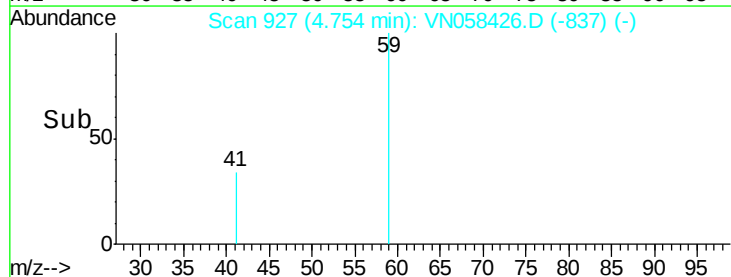
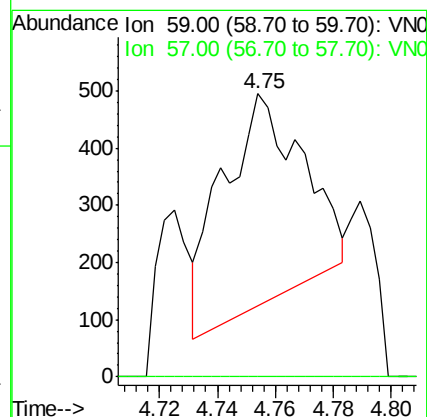
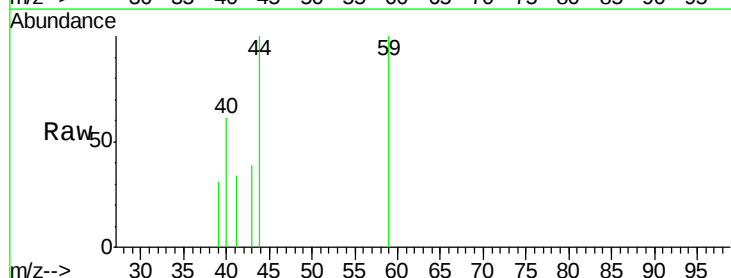
Acq: 30 Sep 2019 11:53

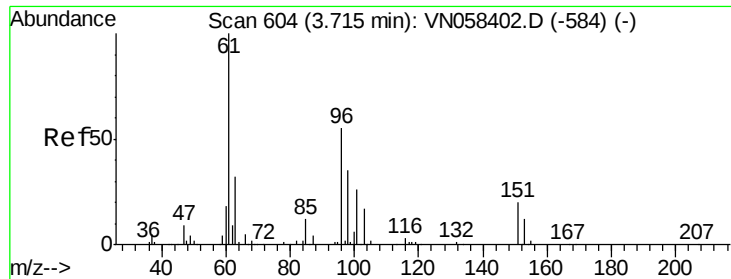
Tgt Ion: 59 Resp: 709

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#

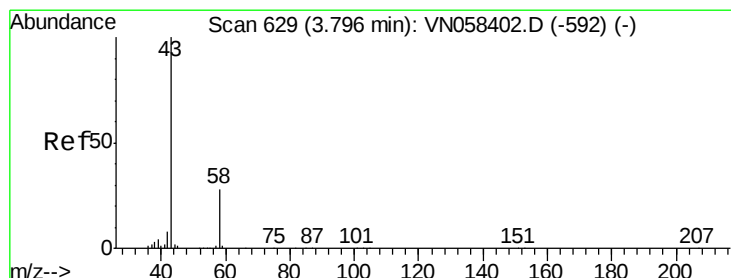
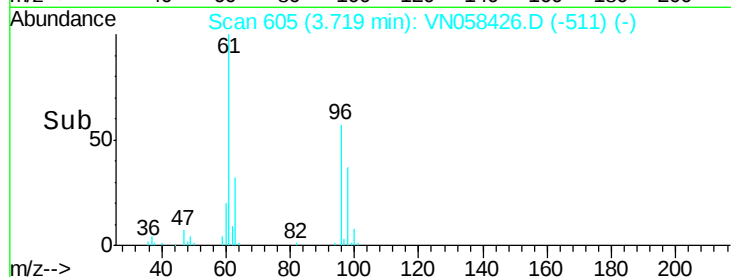
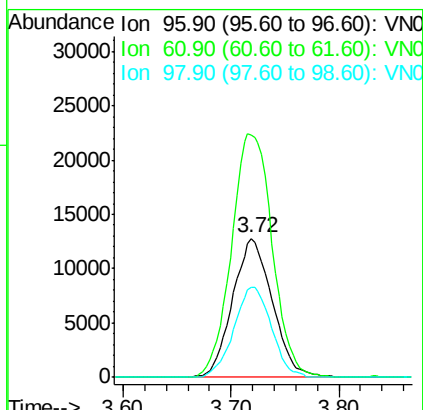
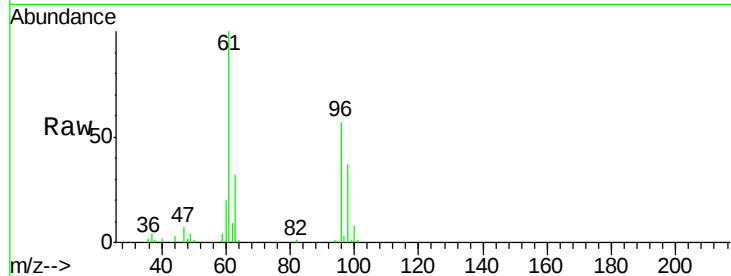




#12
 1,1-Dichloroethene
 Concen: 7.799 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. 0.00 min
 Lab File: VN058426.D
 Acq: 30 Sep 2019 11:53

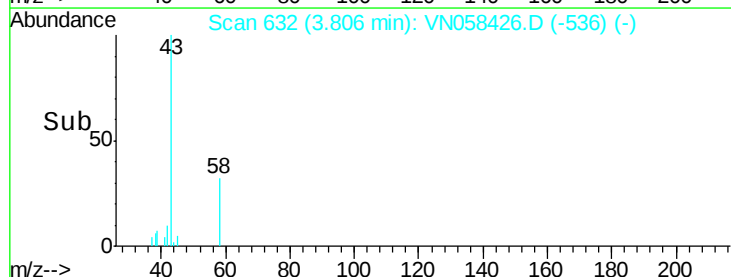
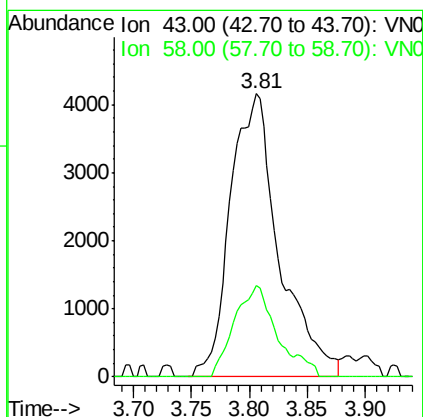
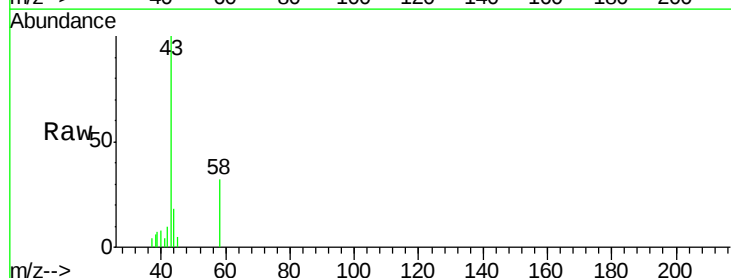
Instrument :
 MSVOA_N
 ClientSampled :

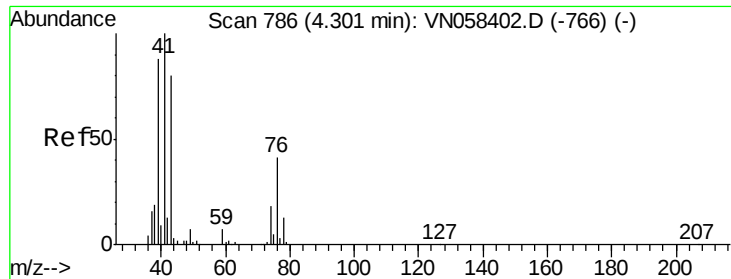
Tot Ion: 96 Resp: 32676
 Ion Ratio Lower Upper
 96 100
 61 174.6 146.7 220.1
 98 65.0 51.3 76.9



#16
 Acetone
 Concen: 5.522 ug/l
 RT: 3.81 min Scan# 632
 Delta R.T. 0.01 min
 Lab File: VN058426.D
 Acq: 30 Sep 2019 11:53

Tgt Ion: 43 Resp: 12219
 Ion Ratio Lower Upper
 43 100
 58 32.4 22.4 33.6

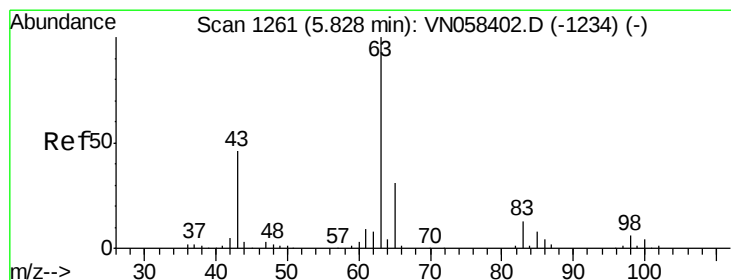
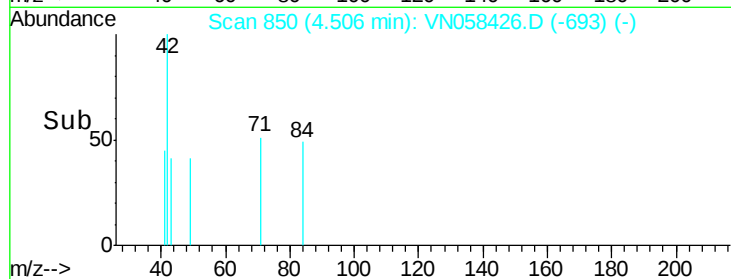
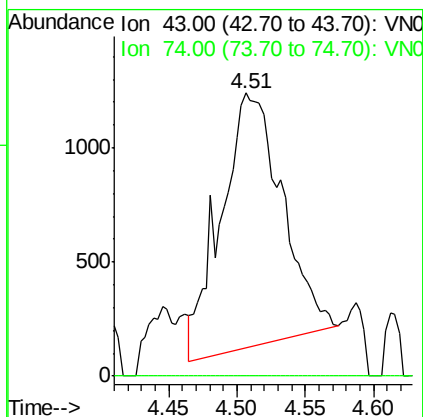
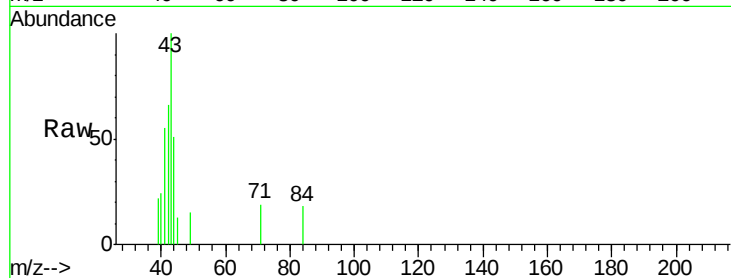




#18
Methvl Acetate
Concen: 0.623 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.21 min
Lab File: VN058426.D
Acq: 30 Sep 2019 11:53

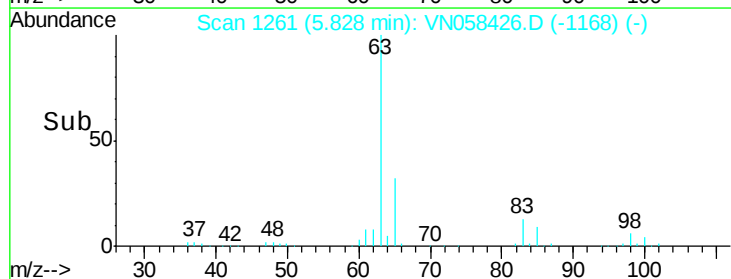
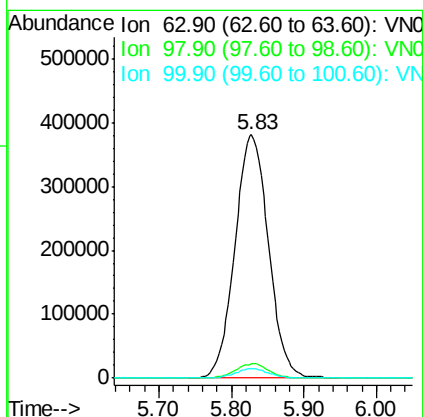
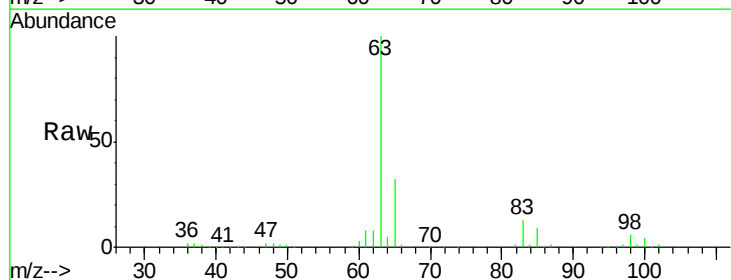
Instrument :
MSVOA_N
ClientSampled :

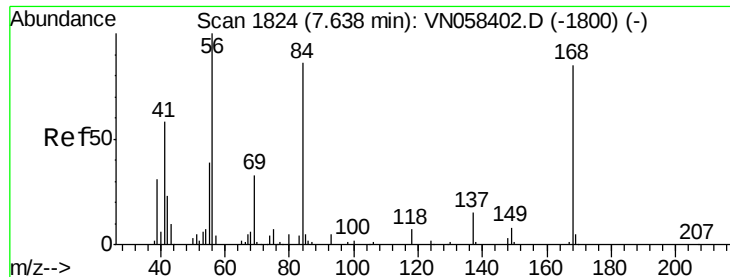
Tot Ion: 43 Resp: 3466
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#24
1,1-Dichloroethane
Concen: 132.548 ug/l
RT: 5.83 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VN058426.D
Acq: 30 Sep 2019 11:53

Tgt Ion: 63 Resp: 1224030
Ion Ratio Lower Upper
63 100
98 5.7 3.0 9.0
100 3.9 2.0 5.8





#31

Cyclohexane

Concen: 1.304 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

Instrument :
MSVOA_N
ClientSampled :

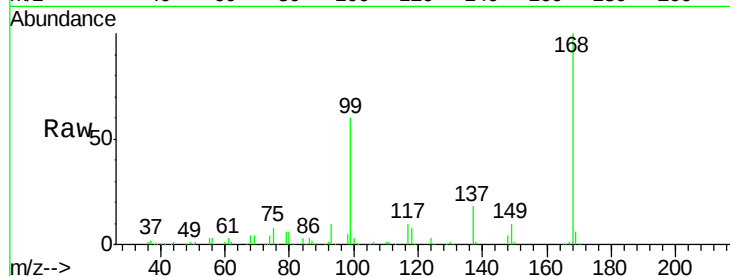
Tot Ion: 56 Resp: 11717

Ion Ratio Lower Upper

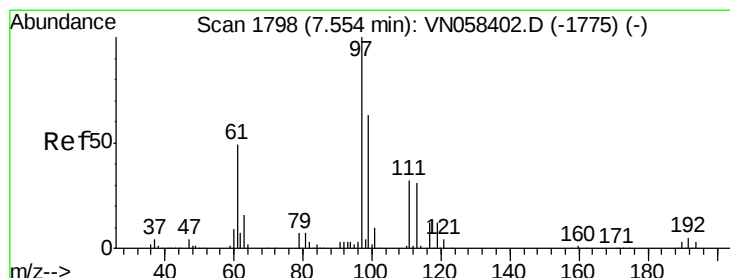
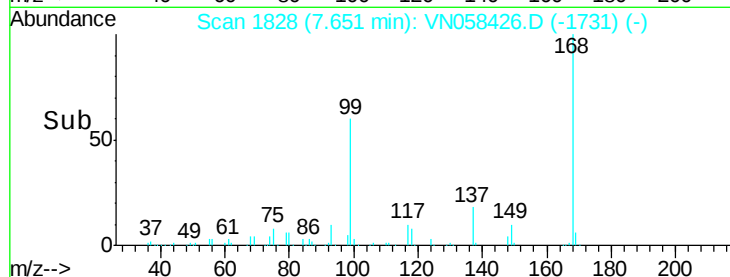
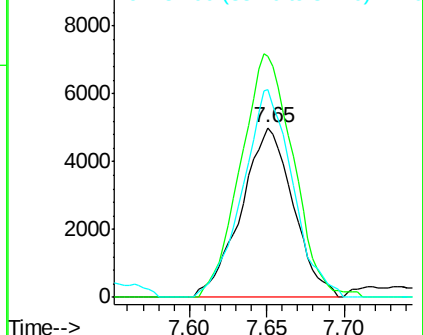
56 100

69 142.3 26.2 39.4#

84 122.1 67.6 101.4#



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



#32

1,1,1-Trichloroethane

Concen: 7.402 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

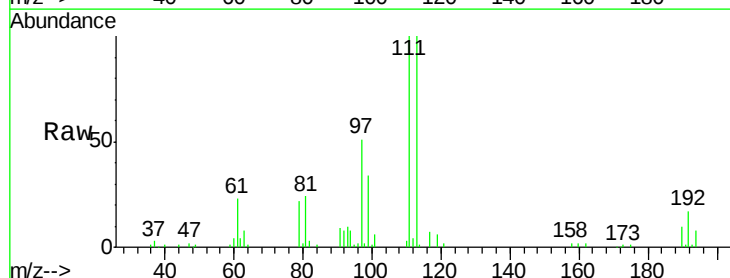
Tgt Ion: 97 Resp: 56882

Ion Ratio Lower Upper

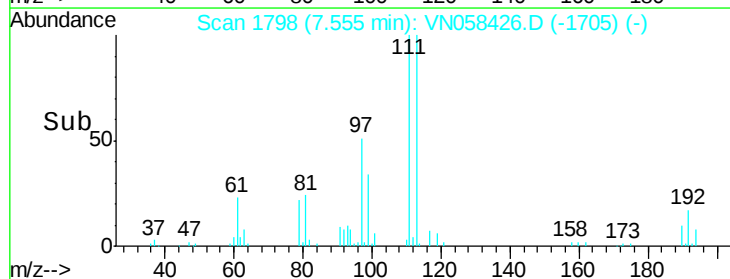
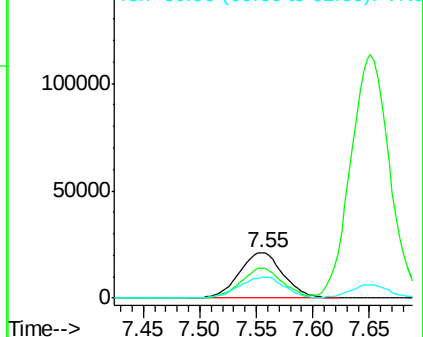
97 100

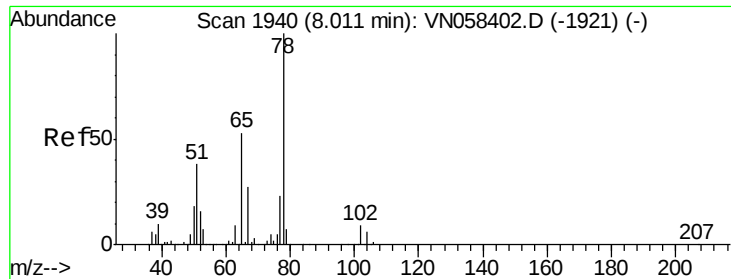
99 62.7 51.1 76.7

61 48.0 39.2 58.8



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0

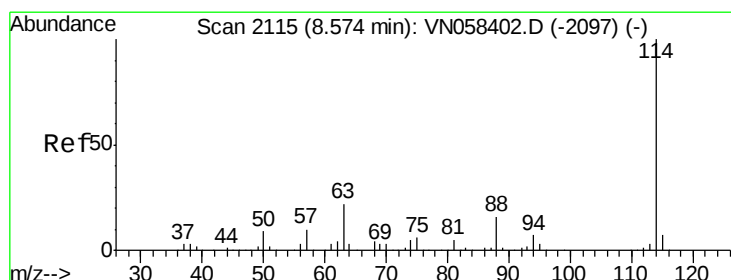
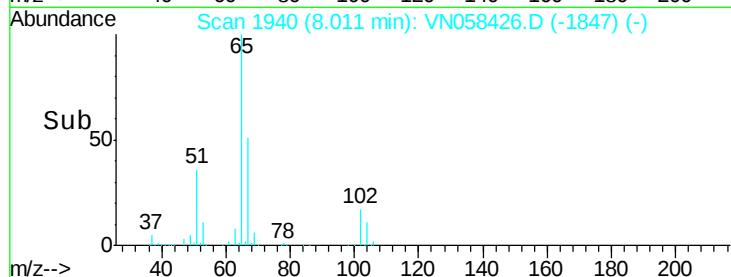
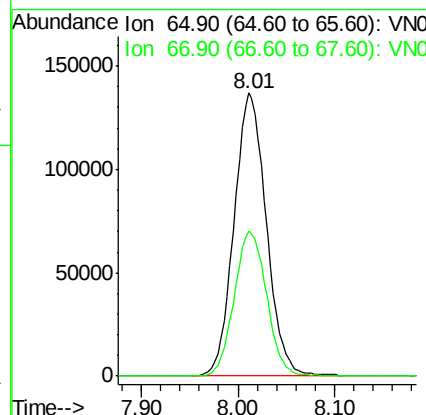
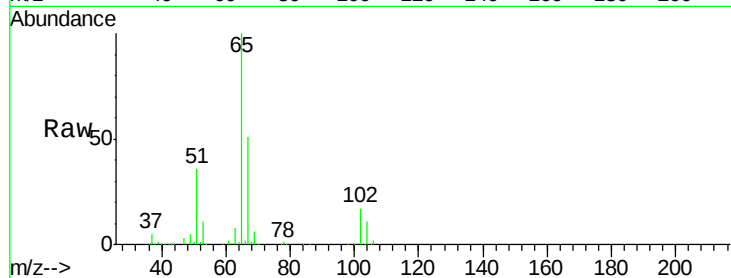




#33
 1,2-Dichloroethane-d4
 Concen: 48.912 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058426.D
 Acq: 30 Sep 2019 11:53

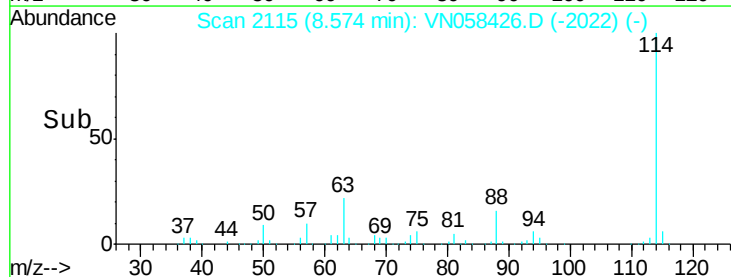
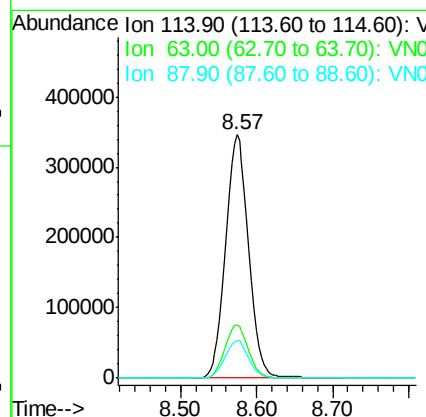
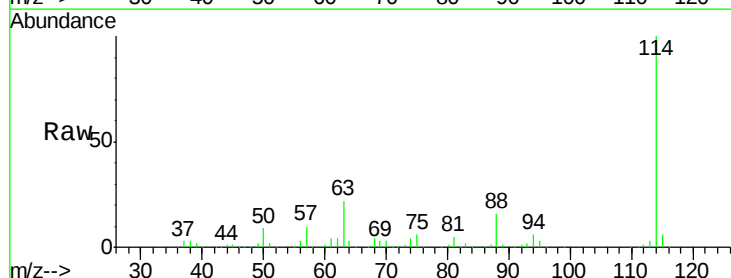
Instrument :
 MSVOA_N
 ClientSampleId :

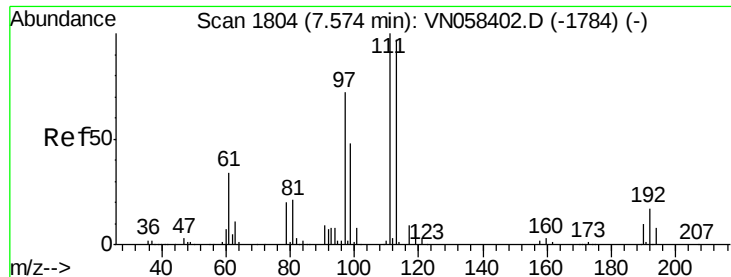
Tot Ion: 65 Resp: 317473
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058426.D
 Acq: 30 Sep 2019 11:53

Tgt Ion: 114 Resp: 727733
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 45.0
 88 15.5 0.0 32.2

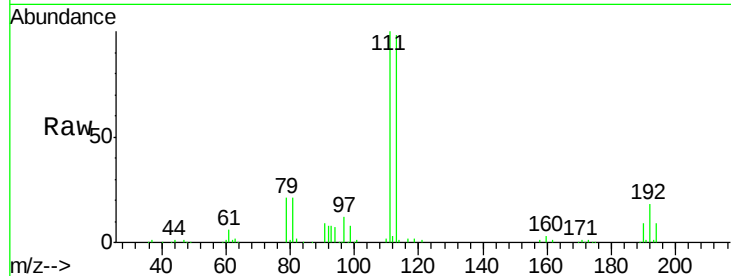




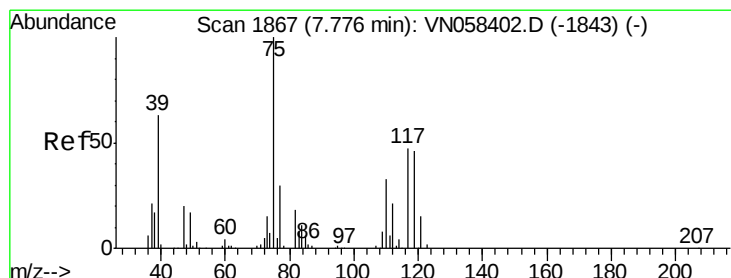
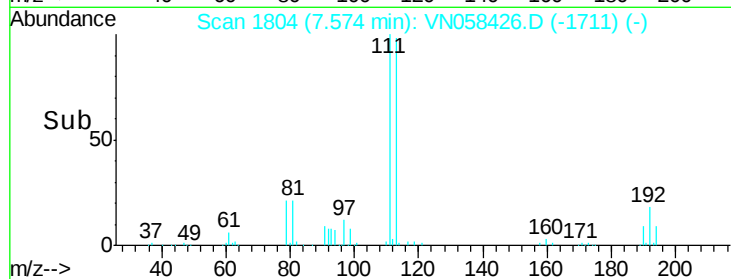
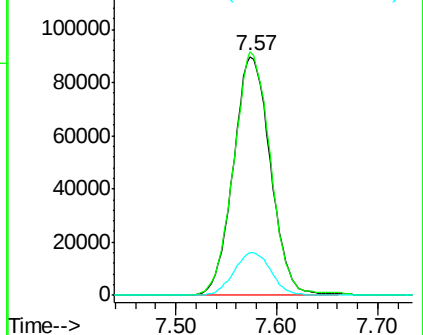
#35
 Dibromofluoromethane
 Concen: 51.278 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058426.D
 Acq: 30 Sep 2019 11:53

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.2	83.4	125.2
192	18.0	14.9	22.3

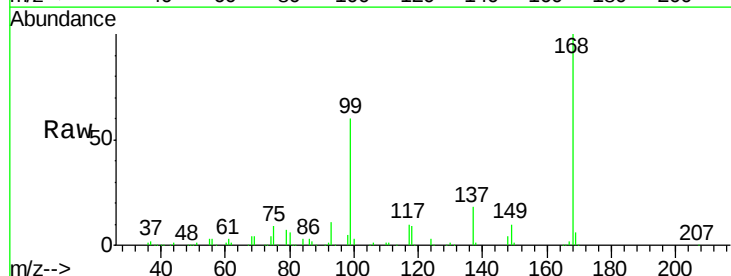


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

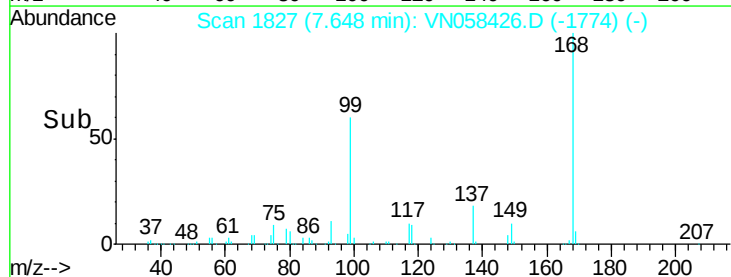
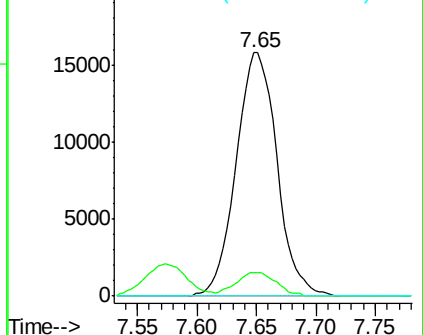


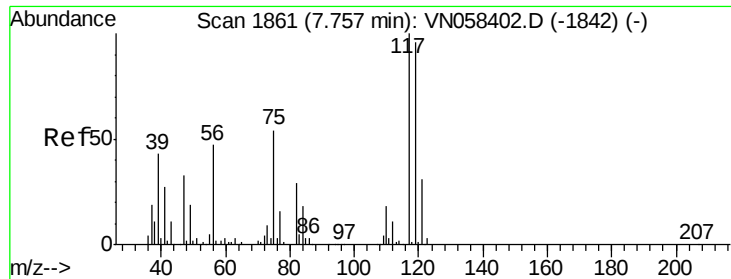
#36
 1,1-Dichloropropene
 Concen: 5.406 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058426.D
 Acq: 30 Sep 2019 11:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	16.4	49.2#
77	0.0	24.3	36.5#



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





#38

Carbon Tetrachloride

Concen: 7.311 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

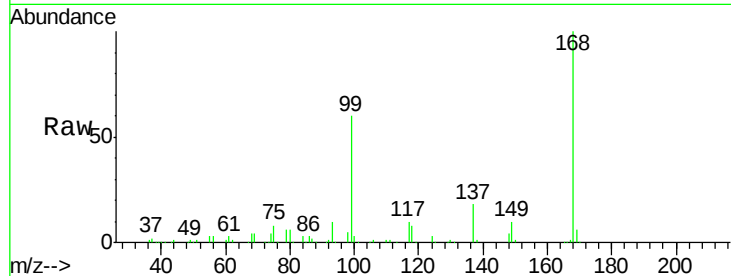
Tot Ion:117 Resp: 45922

Ion Ratio Lower Upper

117 100

119 4.8 76.6 115.0#

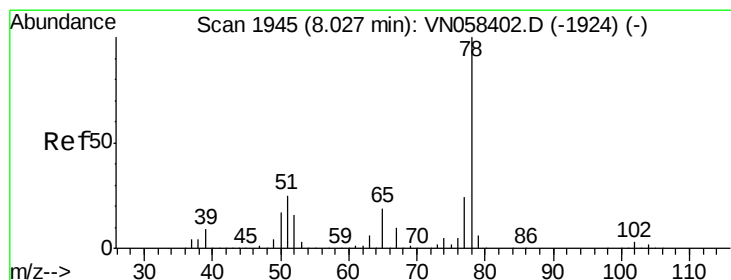
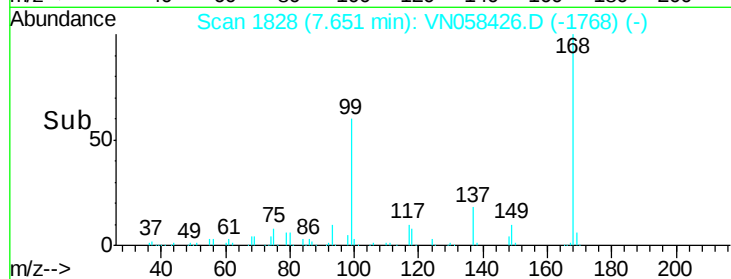
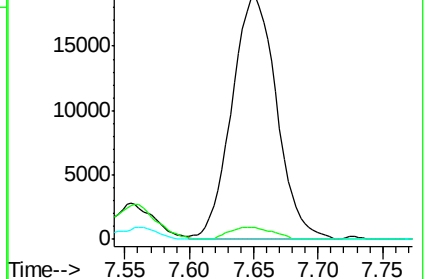
121 0.0 24.7 37.1#



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



#40

Benzene

Concen: 0.341 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN058426.D

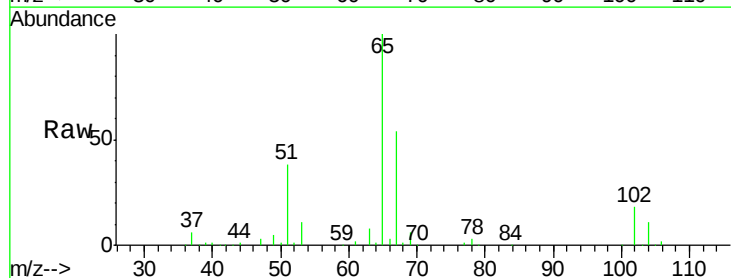
Acq: 30 Sep 2019 11:53

Tgt Ion: 78 Resp: 6816

Ion Ratio Lower Upper

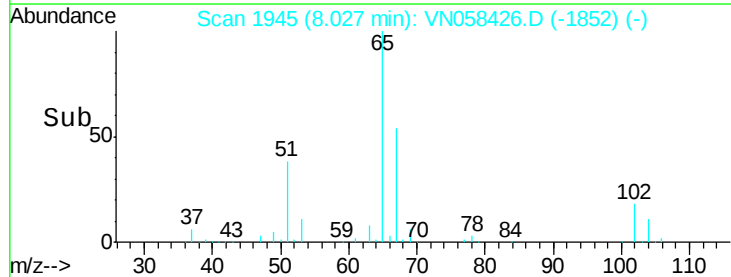
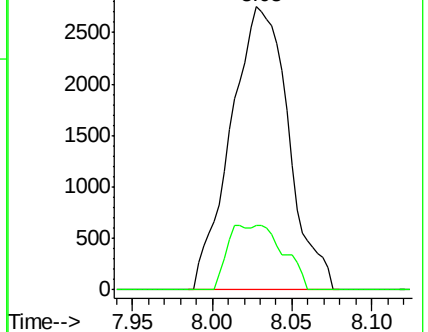
78 100

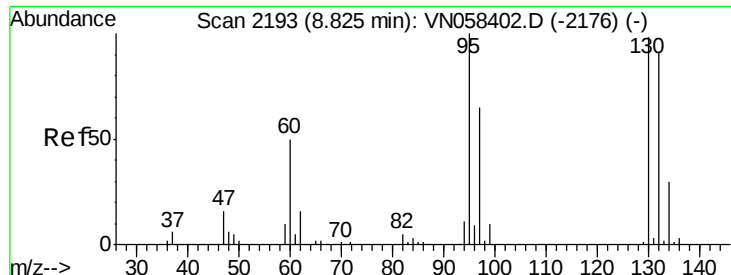
77 22.6 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): V

Ion 77.00 (76.70 to 77.70): V





#44

Trichloroethene

Concen: 0.334 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

Instrument :

MSVOA_N

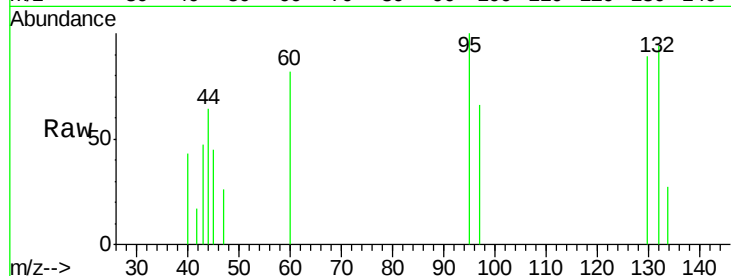
ClientSampleId :

Tot Ion:130 Resp: 1652

Ion Ratio Lower Upper

130 100

95 112.1 0.0 204.2



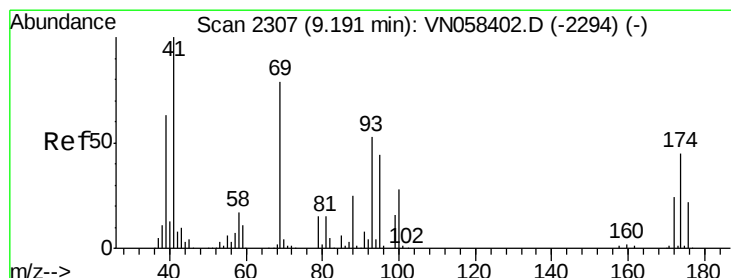
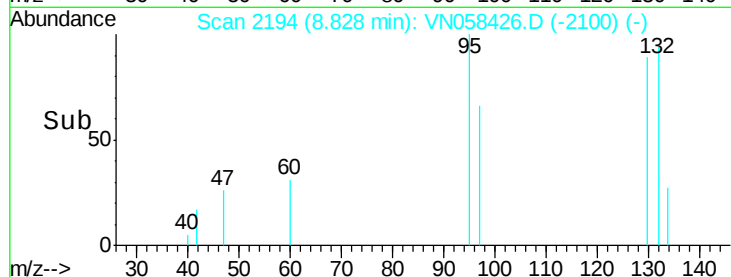
Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VNO

8.83

8.85

Time-->



#48

Methyl methacrylate

Concen: 0.265 ug/l

RT: 9.22 min Scan# 2315

Delta R.T. 0.03 min

Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

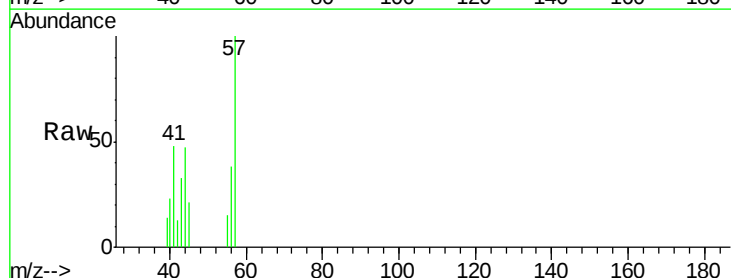
Tgt Ion: 41 Resp: 1340

Ion Ratio Lower Upper

41 100

69 0.0 64.7 97.1#

39 15.7 52.9 79.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO

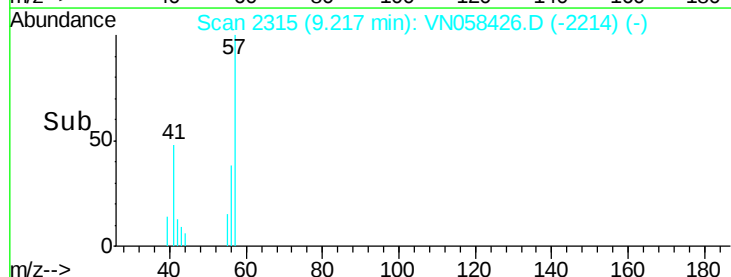
Ion 69.00 (68.70 to 69.70): VNO

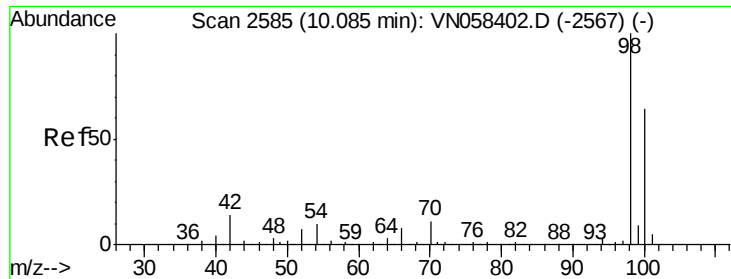
Ion 39.00 (38.70 to 39.70): VNO

9.22

9.25

Time-->





#50

Toluene-d8

Concen: 51.586 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

Instrument :

MSVOA_N

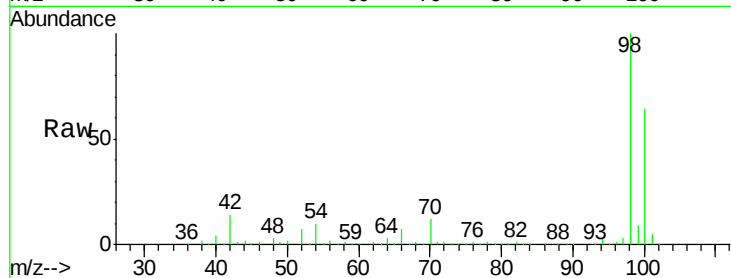
ClientSampled :

Tot Ion: 98 Resp: 901333

Ion Ratio Lower Upper

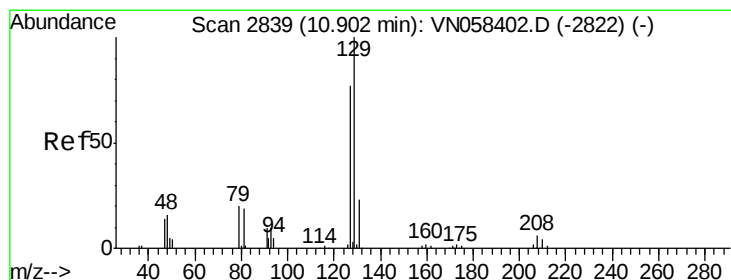
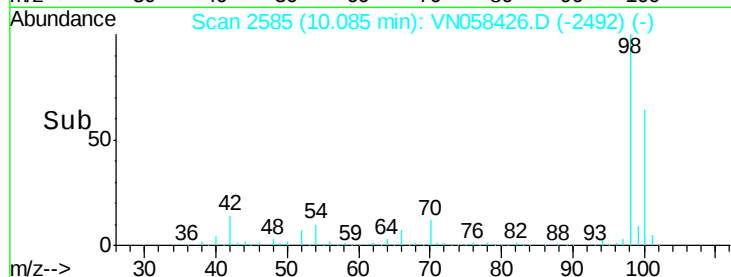
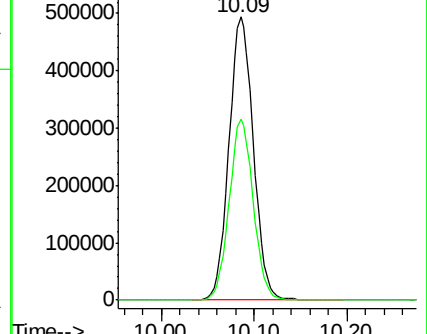
98 100

100 63.0 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#60

Dibromochloromethane

Concen: Below Cal

RT: 10.64 min Scan# 2757

Delta R.T. -0.26 min

Lab File: VN058426.D

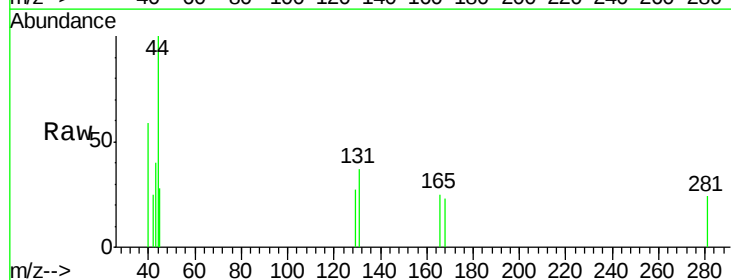
Acq: 30 Sep 2019 11:53

Tgt Ion: 129 Resp: 67

Ion Ratio Lower Upper

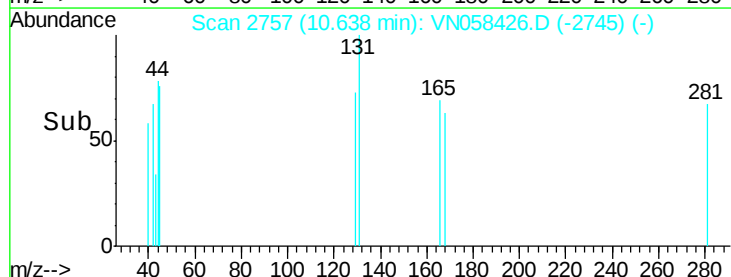
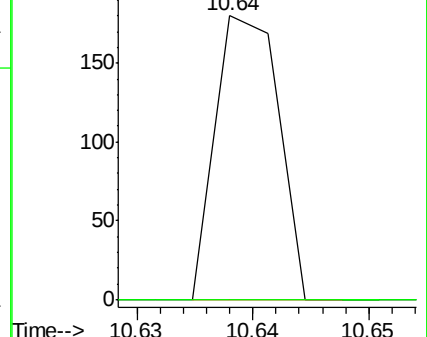
129 100

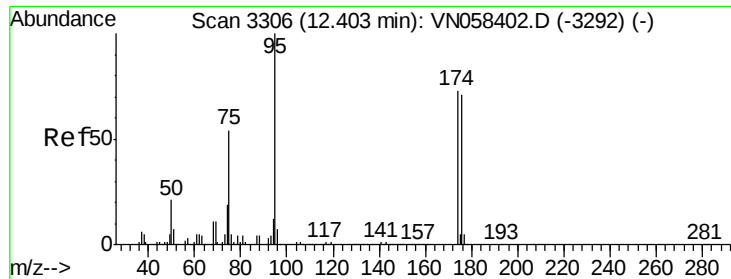
127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 44.745 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

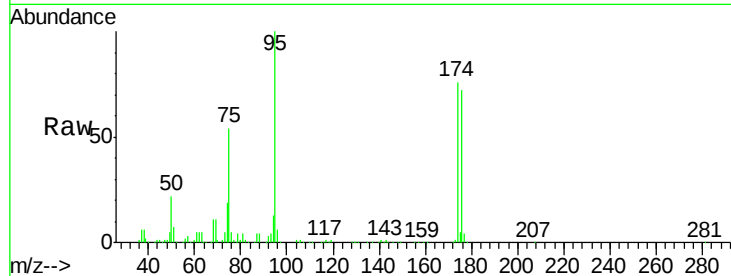
Tot Ion: 95 Resp: 282685

Ion Ratio Lower Upper

95 100

174 76.2 0.0 150.6

176 72.3 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)

12.41

200000

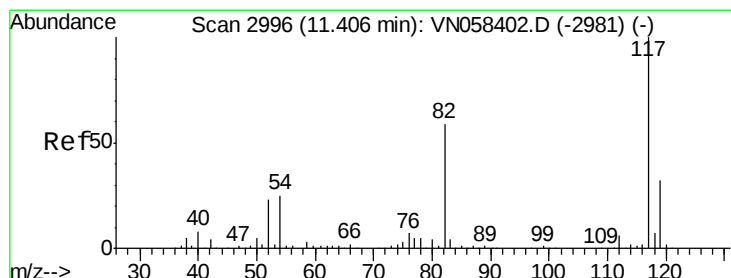
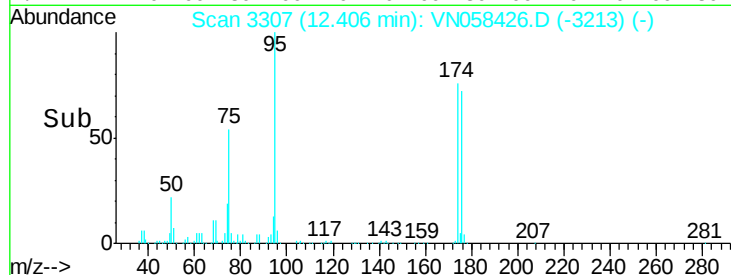
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

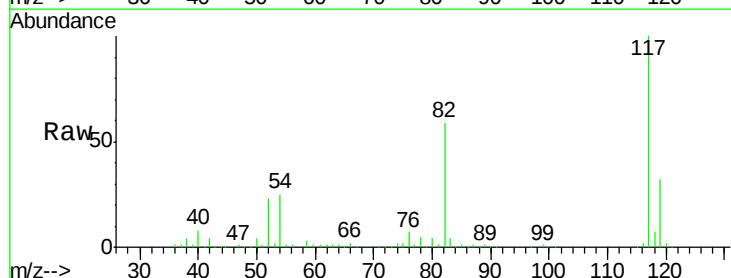
Tgt Ion: 117 Resp: 611958

Ion Ratio Lower Upper

117 100

82 58.9 47.4 71.0

119 31.9 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058402.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058402.D (-2981) (-)

11.41

400000

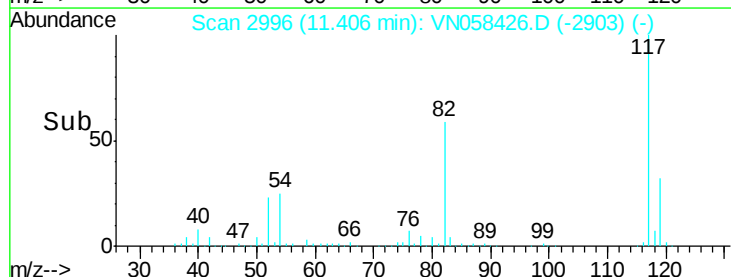
300000

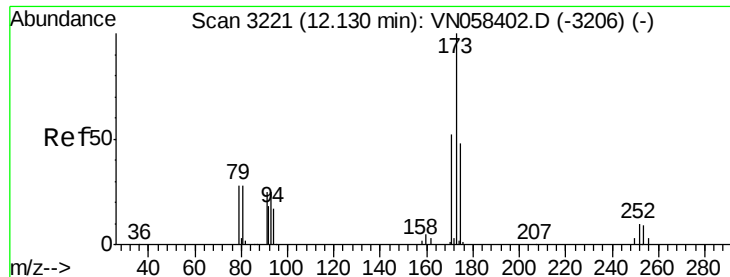
200000

100000

0

Time-->





#71

Bromoform

Concen: 1.107 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

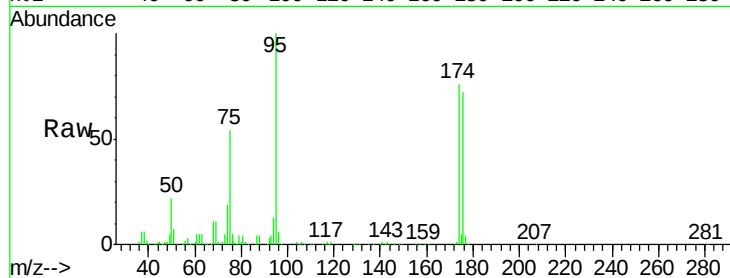
Tot Ion:173 Resp: 1183

Ion Ratio Lower Upper

173 100

175 1080.4 24.3 73.0#

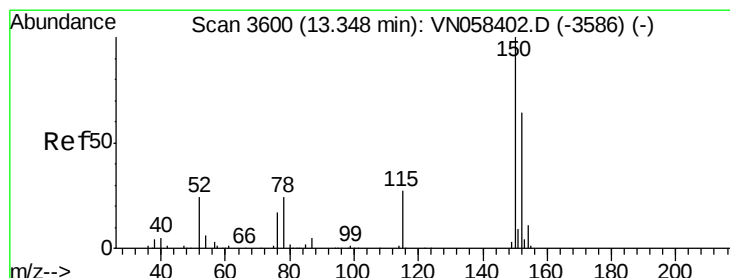
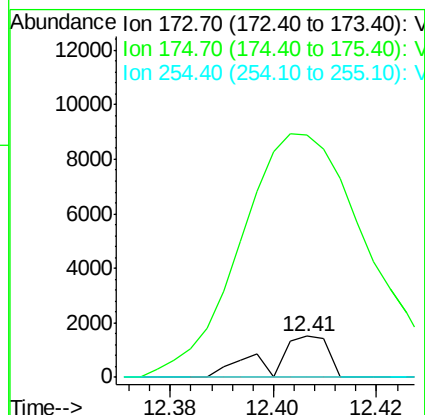
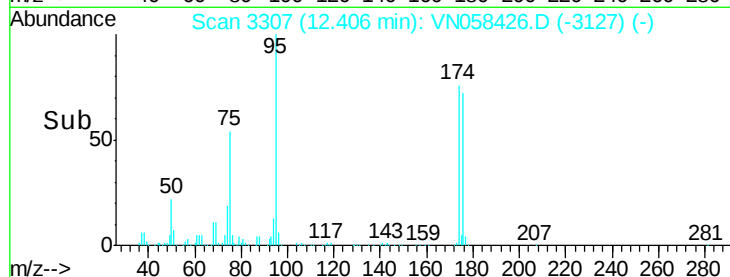
254 0.0 0.1 0.1#



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: VN058426.D

Acq: 30 Sep 2019 11:53

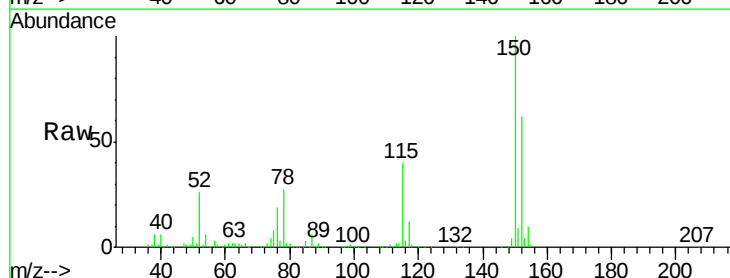
Tgt Ion:152 Resp: 236587

Ion Ratio Lower Upper

152 100

115 63.0 30.0 90.0

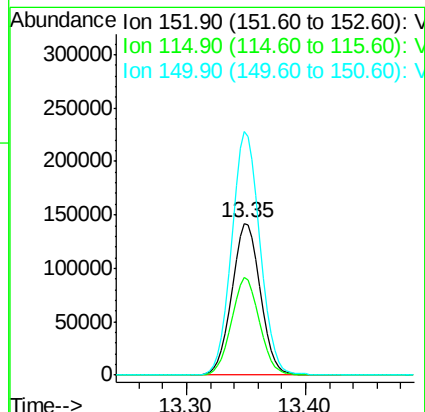
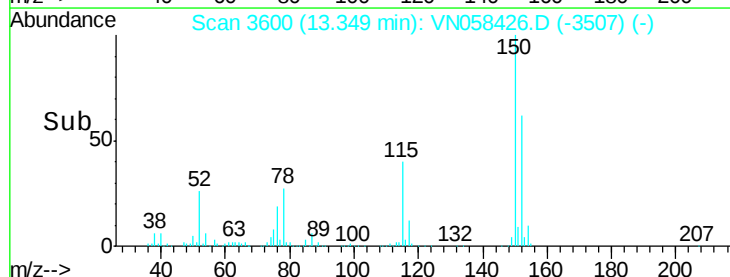
150 158.7 0.0 348.2

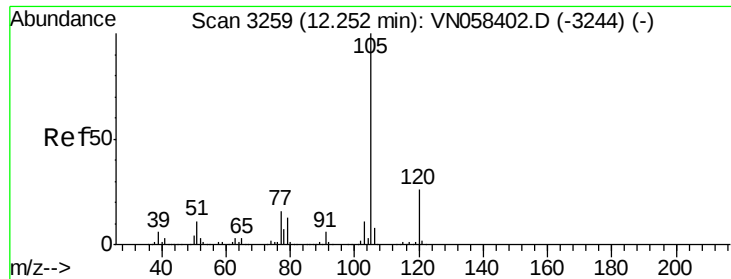


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.469 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

Instrument :

MSVOA_N

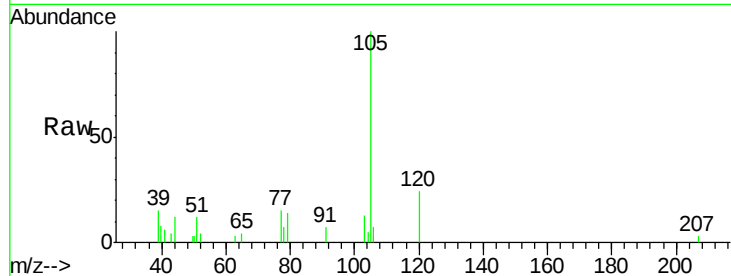
ClientSampled :

Tot Ion:105 Resp: 8205

Ion Ratio Lower Upper

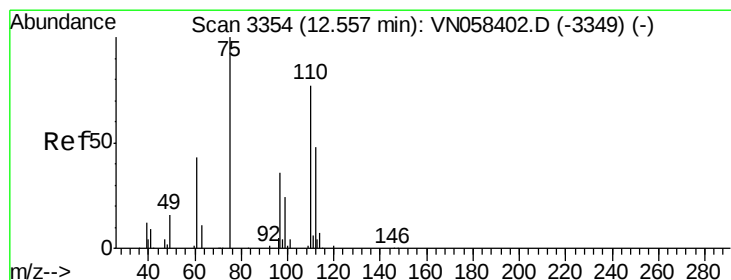
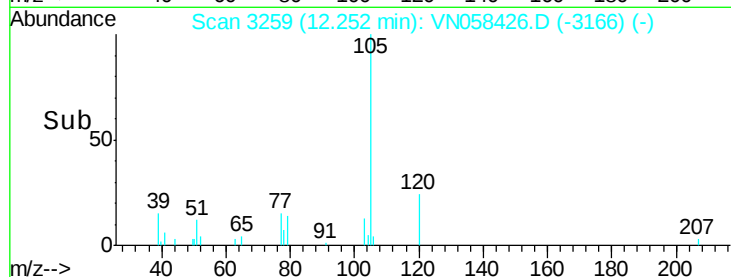
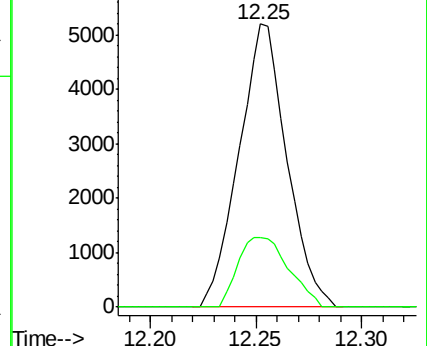
105 100

120 25.8 12.8 38.4



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: 35.974 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058426.D

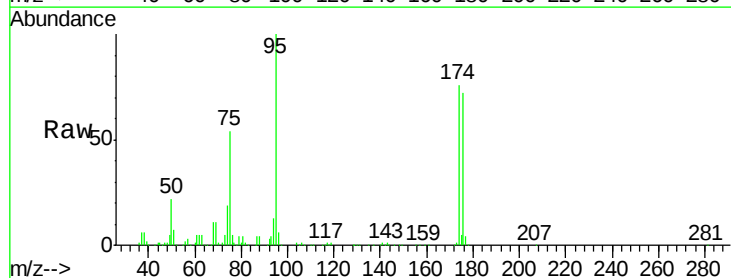
Acq: 30 Sep 2019 11:53

Tgt Ion: 75 Resp: 155453

Ion Ratio Lower Upper

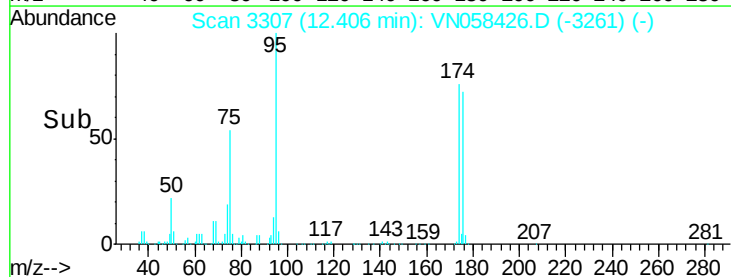
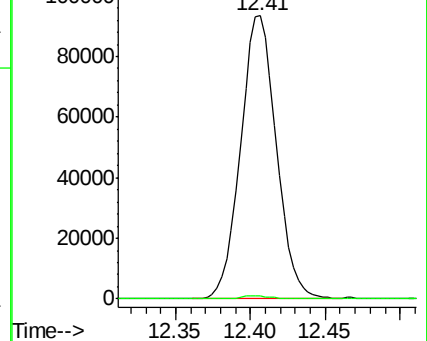
75 100

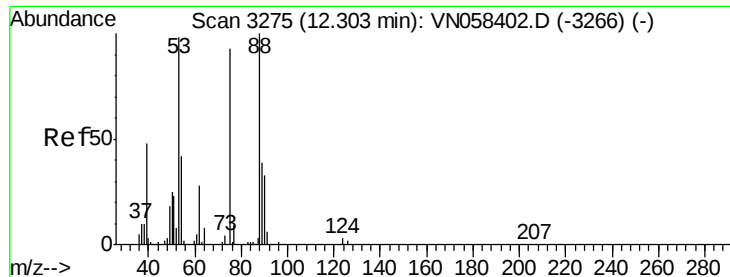
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

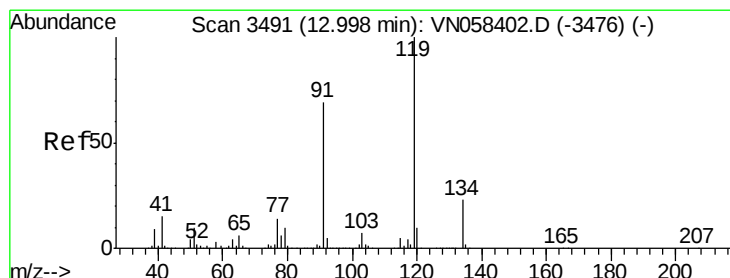
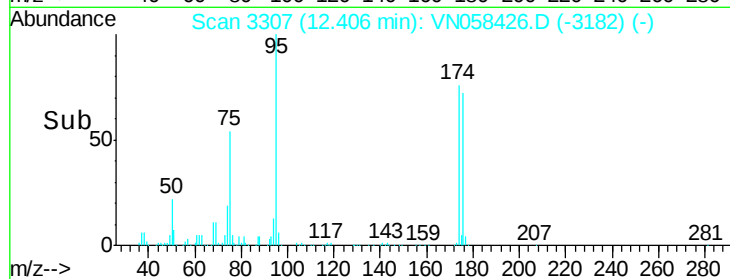
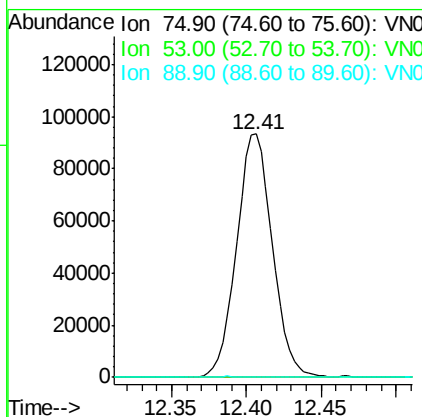
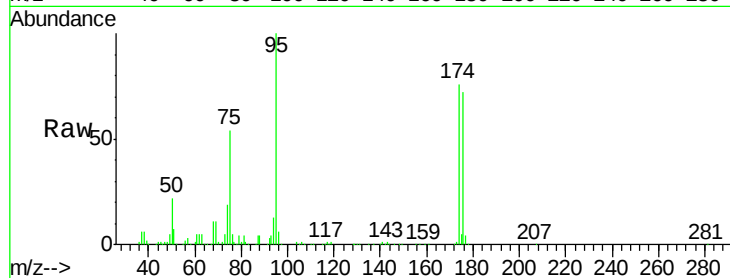




#81
 trans-1,4-Dichloro-2-butene
 Concen: 109.257 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058426.D
 Acq: 30 Sep 2019 11:53

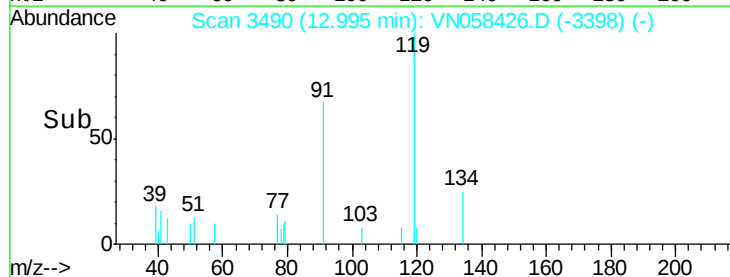
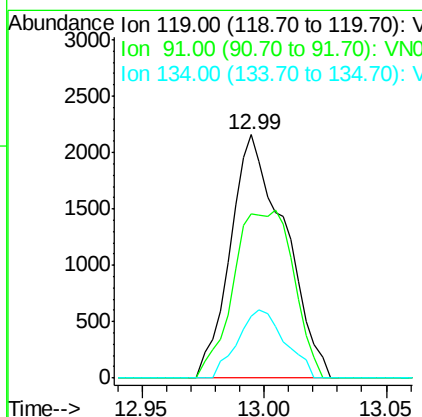
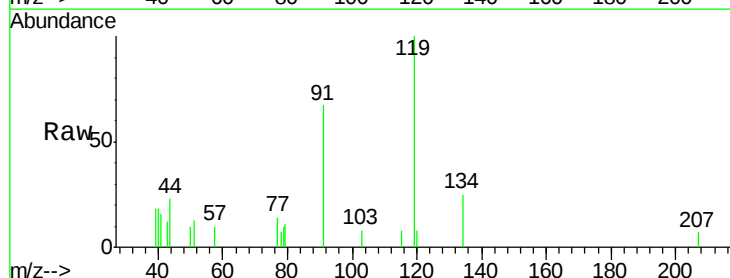
Instrument :
 MSVOA_N
 ClientSampleId :

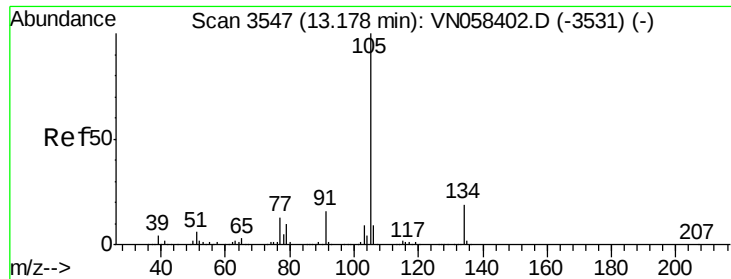
Tot Ion: 75 Resp: 155453
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.4 128.0#
 89 0.3 35.0 52.4#



#83
 tert-Butylbenzene
 Concen: 0.271 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN058426.D
 Acq: 30 Sep 2019 11:53

Tgt Ion: 119 Resp: 3346
 Ion Ratio Lower Upper
 119 100
 91 75.9 34.2 102.6
 134 24.2 11.6 34.8





#85

sec-Butylbenzene

Concen: 0.903 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

Instrument :

MSVOA_N

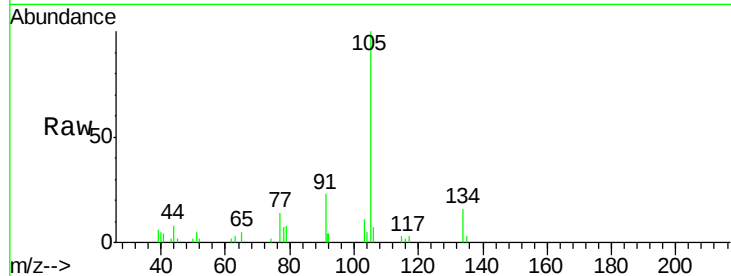
ClientSampled :

Tot Ion:105 Resp: 14684

Ion Ratio Lower Upper

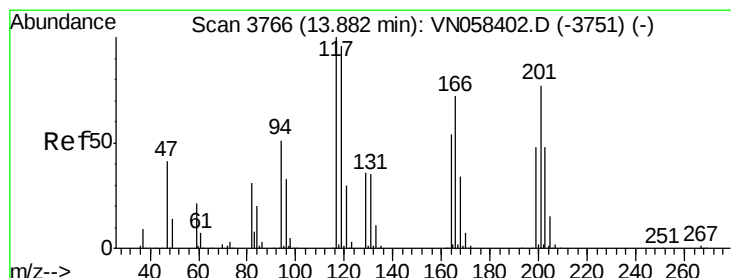
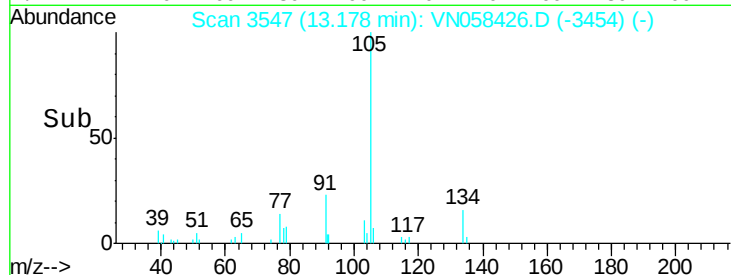
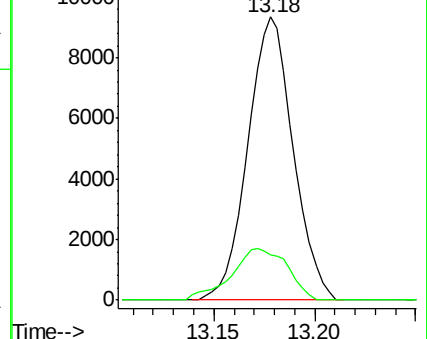
105 100

134 22.5 9.4 28.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 2.845 ug/l

RT: 14.00 min Scan# 3803

Delta R.T. 0.12 min

Lab File: VN058426.D

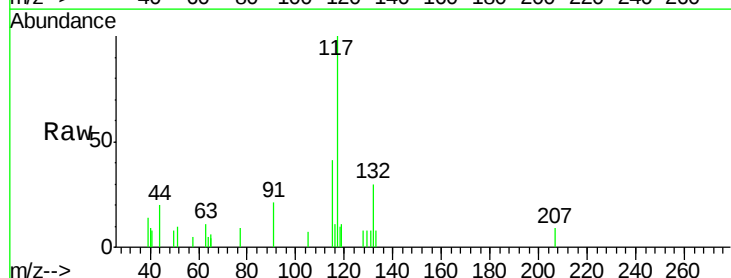
Acq: 30 Sep 2019 11:53

Tgt Ion:117 Resp: 6116

Ion Ratio Lower Upper

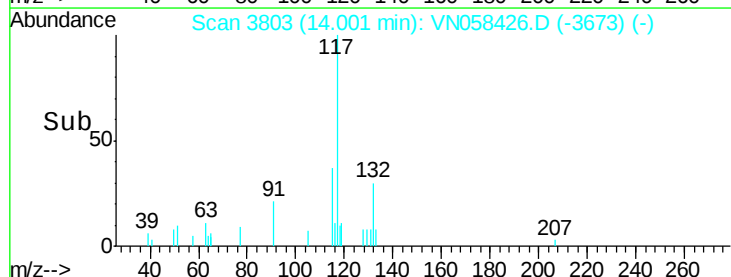
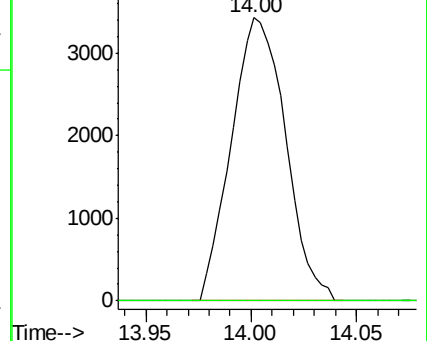
117 100

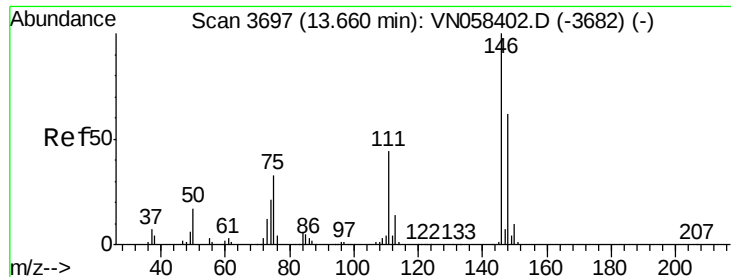
201 0.0 38.6 116.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 0.499 ug/l

RT: 13.66 min Scan# 3698

Delta R.T. 0.00 min

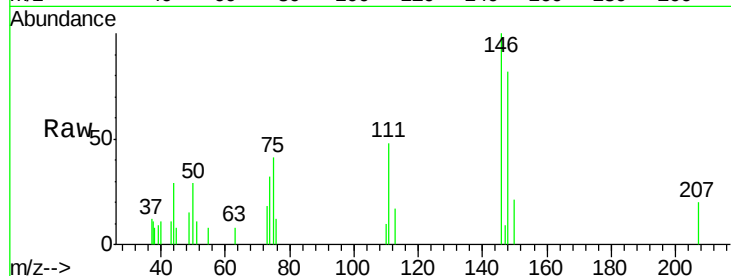
Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

Instrument :

MSVOA_N

ClientSampled :



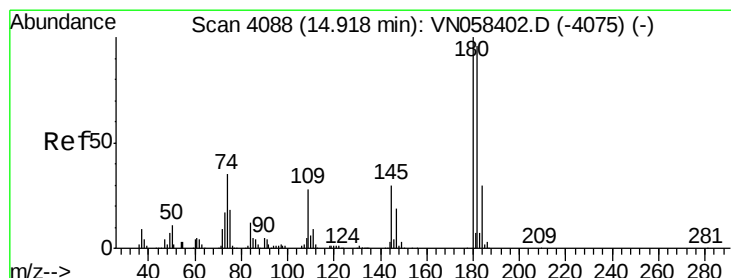
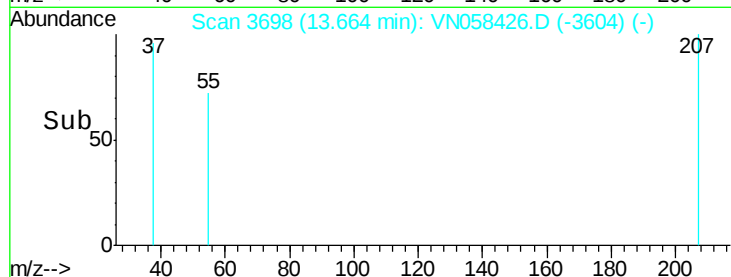
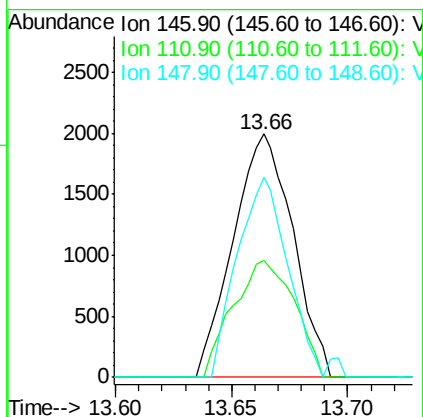
Tot Ion:146 Resp: 3566

Ion Ratio Lower Upper

146 100

111 49.4 21.8 65.3

148 69.8 31.5 94.5



#93

1,2,4-Trichlorobenzene

Concen: 0.316 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN058426.D

Acq: 30 Sep 2019 11:53

Tgt Ion:180 Resp: 1246

Ion Ratio Lower Upper

180 100

182 92.2 47.4 142.3

145 253.9 15.3 45.9#

