

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058576.D
 Acq On : 7 Oct 2019 18:59
 Operator : JC/SP
 Sample : K5197-10DL 1000X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 08 14:07:04 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	502800	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	788377	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	691571	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	282066	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	334433	45.52	ug/l	0.00
Spiked Amount			Recovery	=	91.04%	
35) Dibromofluoromethane	7.57	113	238501	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
50) Toluene-d8	10.09	98	956893	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
62) 4-Bromofluorobenzene	12.41	95	321960	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	

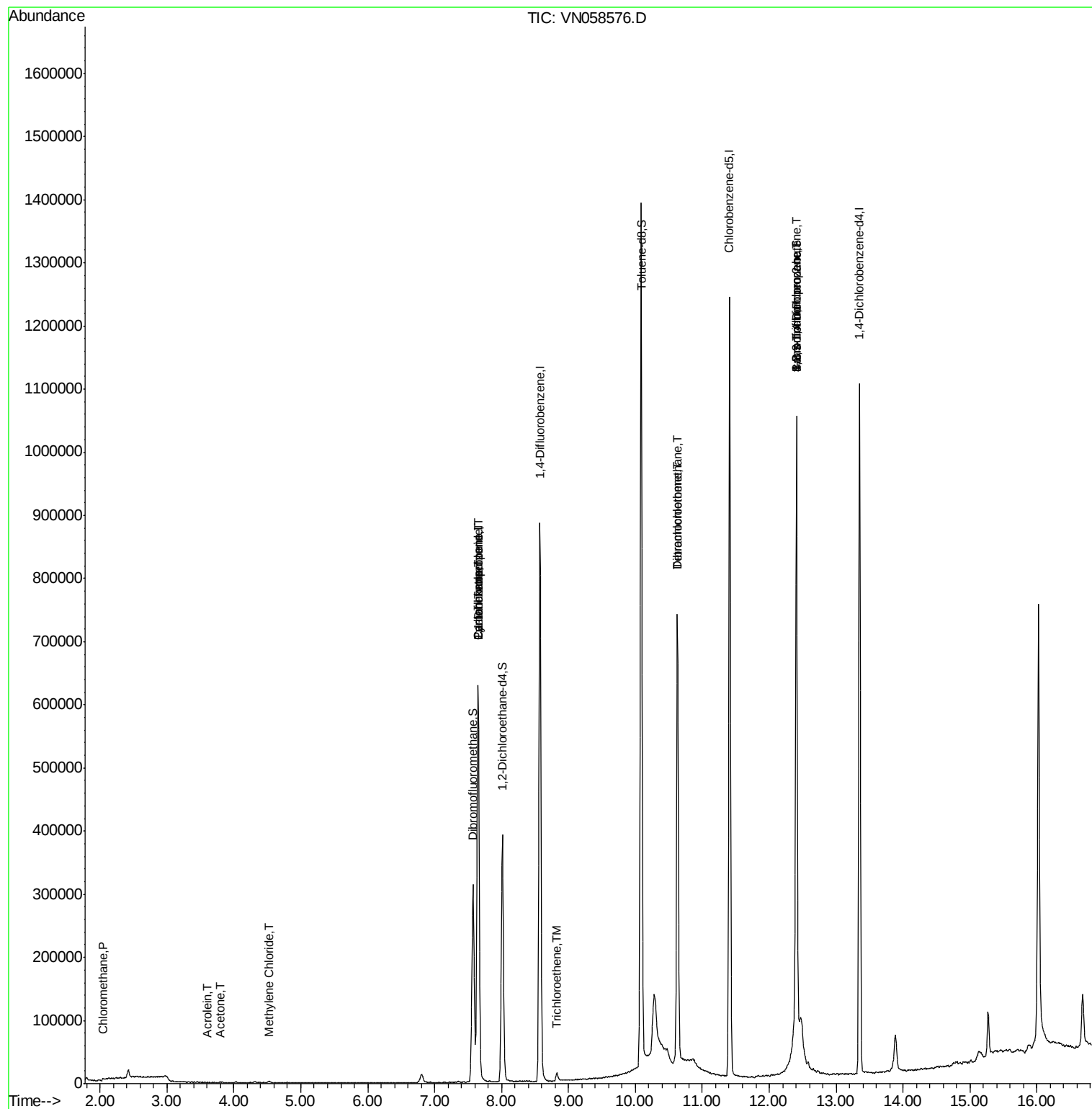
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1465	0.242	ug/l #	80
13) Acrolein	3.61	56	95	0.366	ug/l #	13
16) Acetone	3.80	43	1072	0.428	ug/l	94
20) Methylene Chloride	4.53	84	1554	0.269	ug/l #	56
31) Cyclohexane	7.65	56	11506	1.132	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	42121	5.587	ug/l #	50
38) Carbon Tetrachloride	7.65	117	50103	7.363	ug/l #	16
44) Trichloroethene	8.82	130	4463	0.834	ug/l	91
60) Dibromochloromethane	10.63	129	149113	28.760	ug/l #	11
64) Tetrachloroethene	10.63	164	162453	36.973	ug/l	98
71) Bromoform	12.41	173	1687	1.214	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	171371	33.263	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	171371	101.025	ug/l #	7

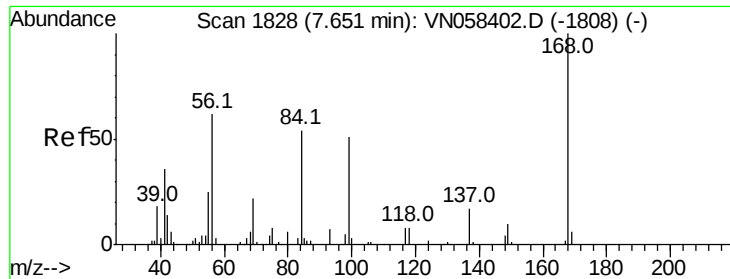
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058576.D

Acq: 7 Oct 2019 18:59

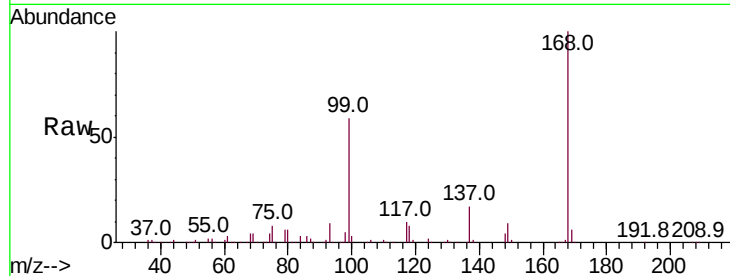
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 502800

Ion Ratio Lower Upper

168 100

99 58.5 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

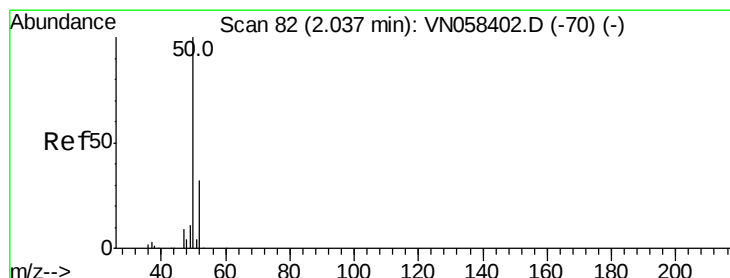
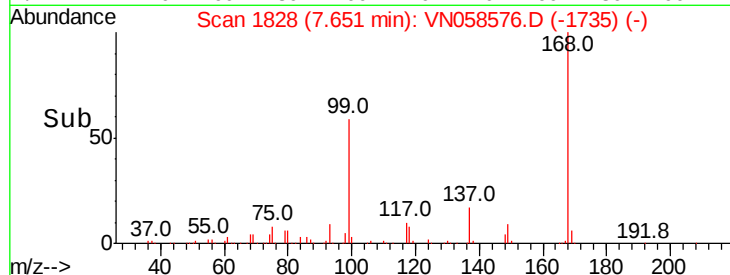
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.242 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058576.D

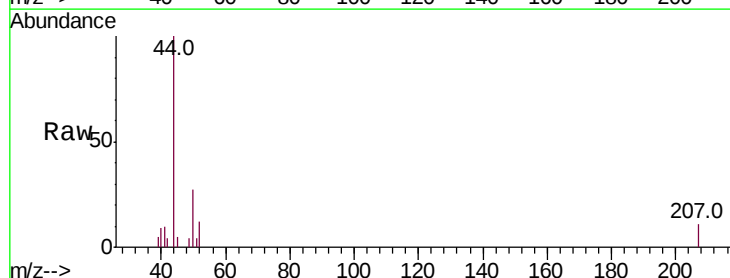
Acq: 7 Oct 2019 18:59

Tgt Ion: 50 Resp: 1465

Ion Ratio Lower Upper

50 100

52 43.6 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1200

1000

800

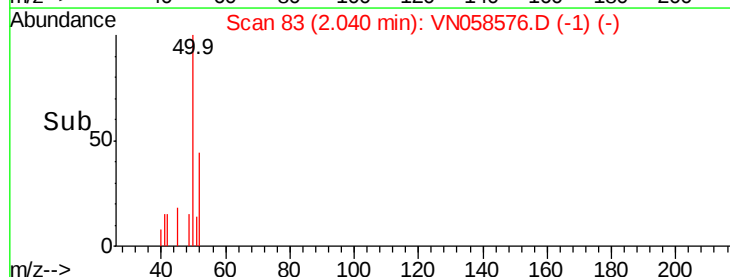
600

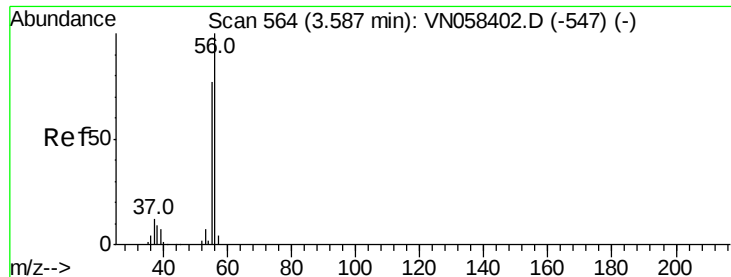
400

200

0

Time--> 2.00 2.02 2.04 2.06 2.08

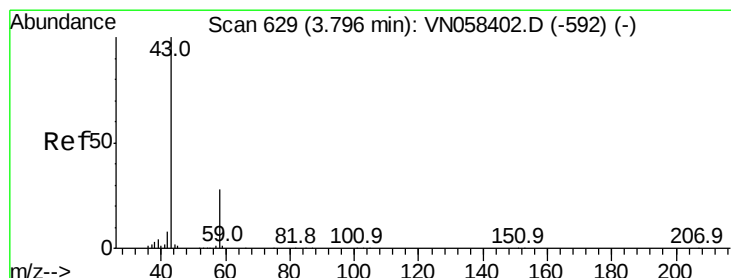
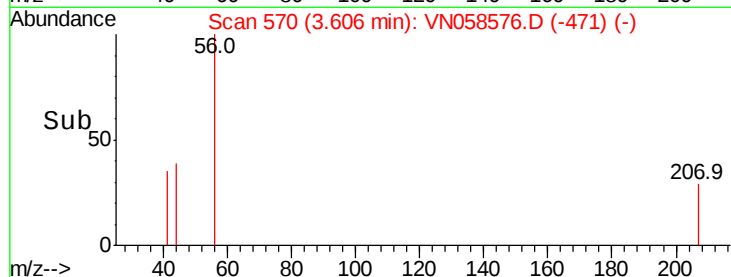
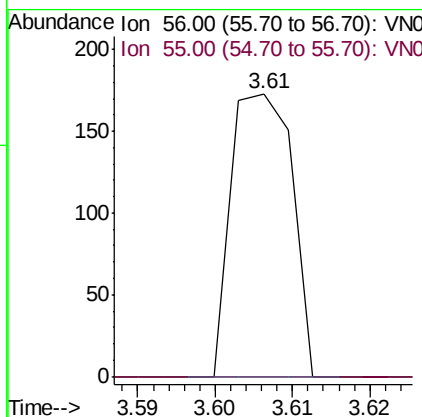
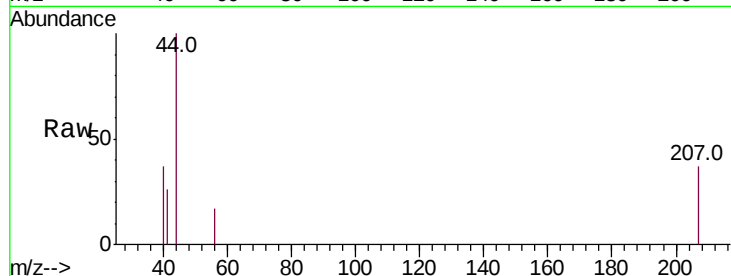




#13
Acrolein
Concen: 0.366 ug/l
RT: 3.61 min Scan# 570
Delta R.T. 0.02 min
Lab File: VN058576.D
Acq: 7 Oct 2019 18:59

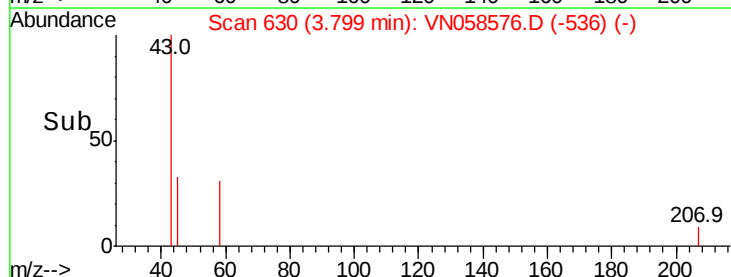
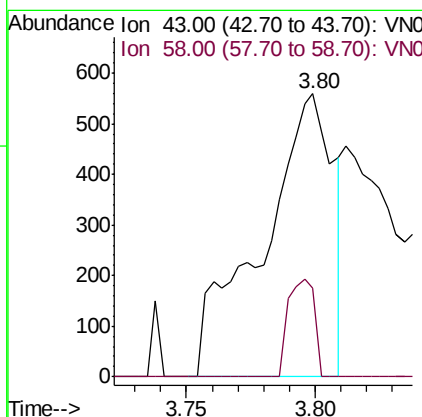
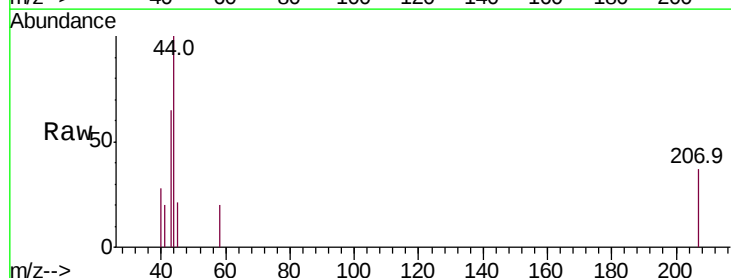
Instrument :
MSVOA_N
ClientSampleId :

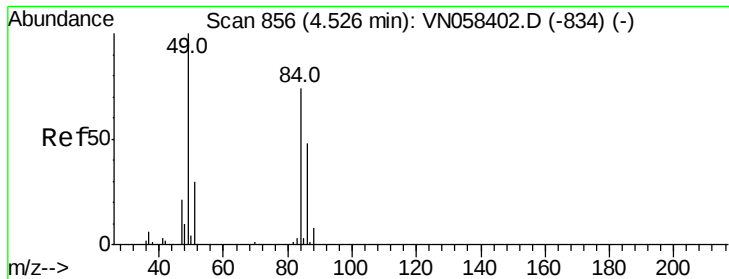
Tot Ion: 56 Resp: 95
Ion Ratio Lower Upper
56 100
55 0.0 58.3 87.5#



#16
Acetone
Concen: 0.428 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.00 min
Lab File: VN058576.D
Acq: 7 Oct 2019 18:59

Tgt Ion: 43 Resp: 1072
Ion Ratio Lower Upper
43 100
58 31.3 22.4 33.6





#20

Methylene Chloride

Concen: 0.269 ug/l

RT: 4.53 min Scan# 858

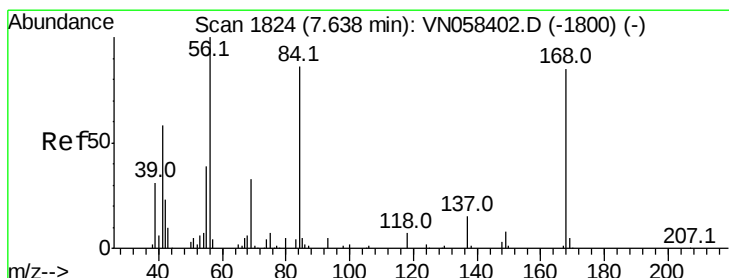
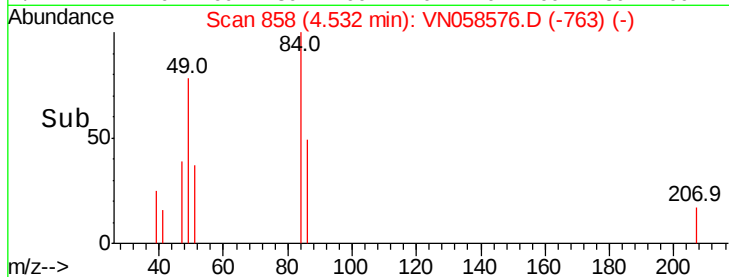
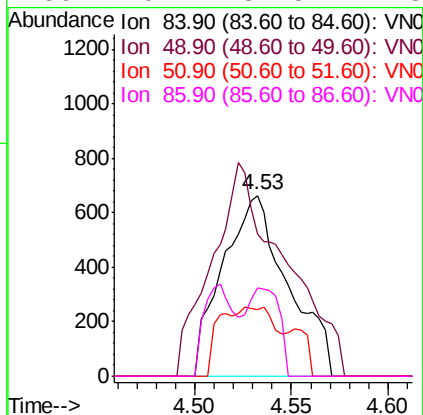
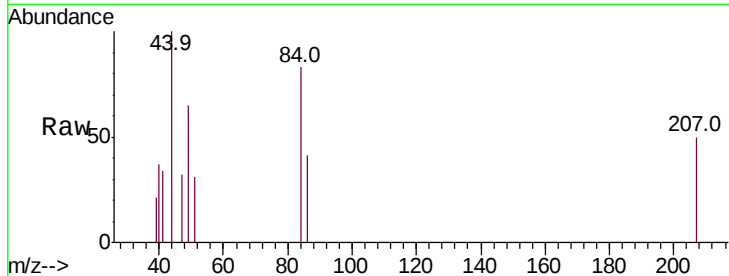
Delta R.T. 0.01 min

Lab File: VN058576.D

Acq: 7 Oct 2019 18:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	1554
Ion	Ratio	Lower	Upper
84	100		
49	55.5	107.9	161.9#
51	36.8	32.8	49.2
86	49.2	51.5	77.3#



#31

Cyclohexane

Concen: 1.132 ug/l

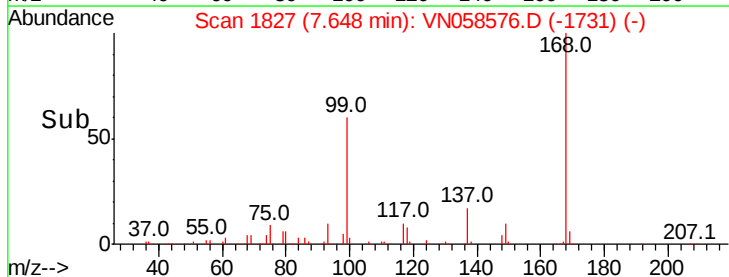
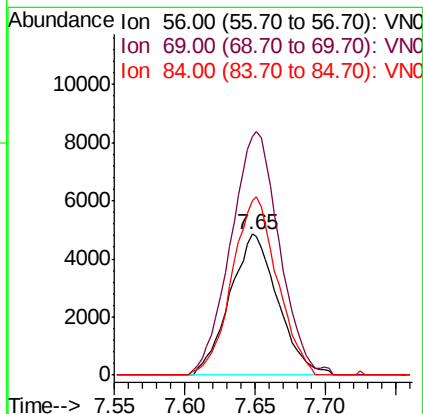
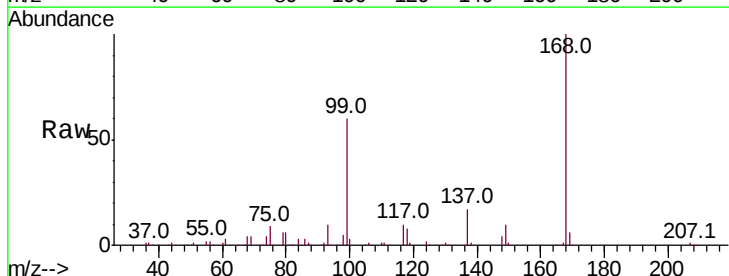
RT: 7.65 min Scan# 1827

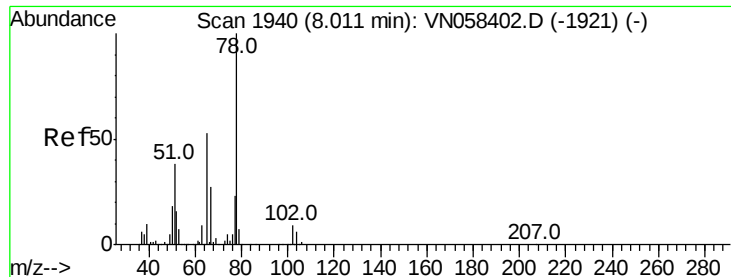
Delta R.T. 0.01 min

Lab File: VN058576.D

Acq: 7 Oct 2019 18:59

Tgt Ion:	56	Resp:	11506
Ion	Ratio	Lower	Upper
56	100		
69	169.5	26.2	39.4#
84	124.0	67.6	101.4#





#33

1,2-Dichloroethane-d4

Concen: 45.516 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058576.D

Acq: 7 Oct 2019 18:59

Instrument :

MSVOA_N

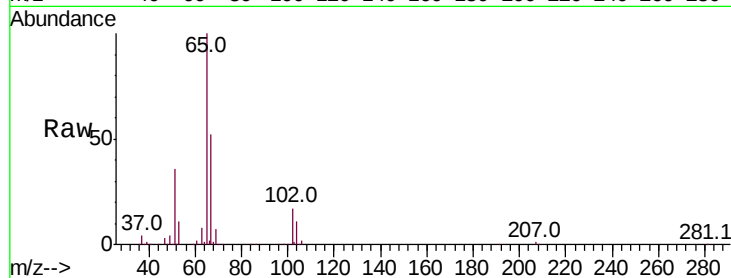
ClientSampleId :

Tot Ion: 65 Resp: 334433

Ion Ratio Lower Upper

65 100

67 51.8 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.01

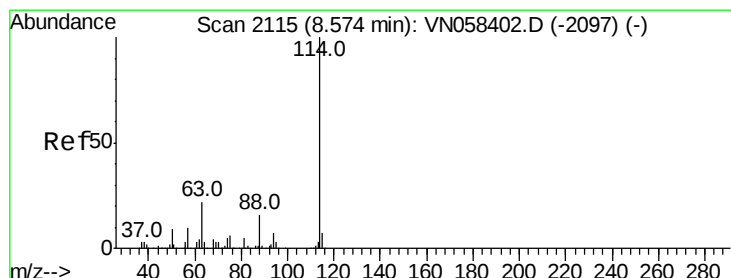
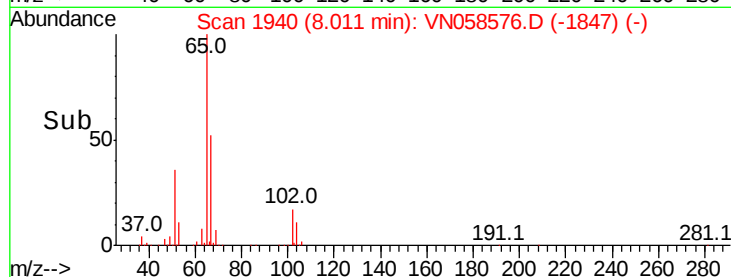
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058576.D

Acq: 7 Oct 2019 18:59

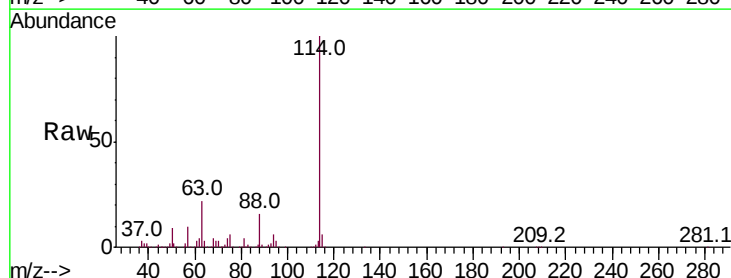
Tgt Ion:114 Resp: 788377

Ion Ratio Lower Upper

114 100

63 21.9 0.0 45.0

88 16.2 0.0 32.2



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

8.57

500000

400000

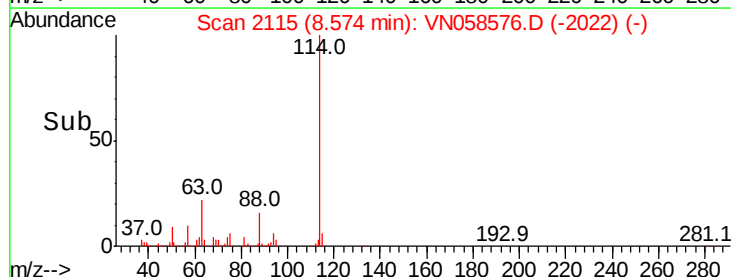
300000

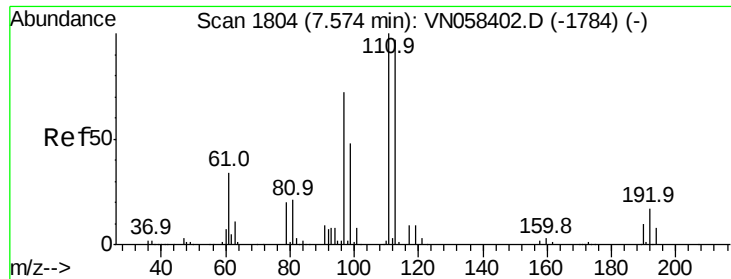
200000

100000

0

Time-->

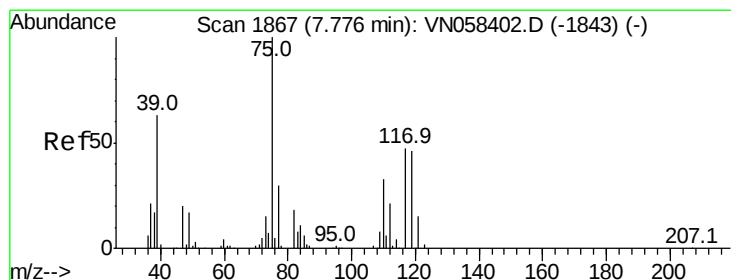
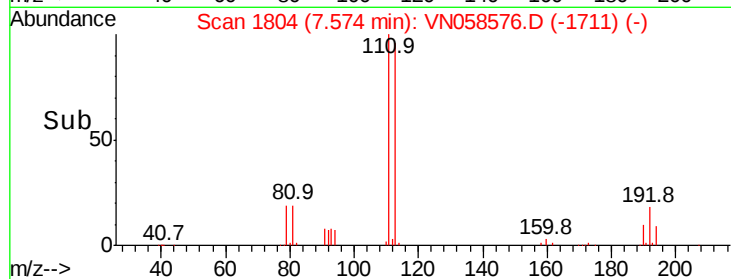
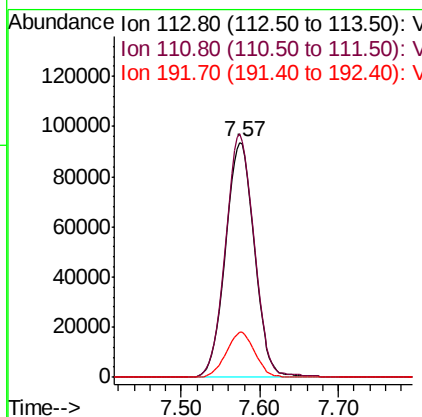
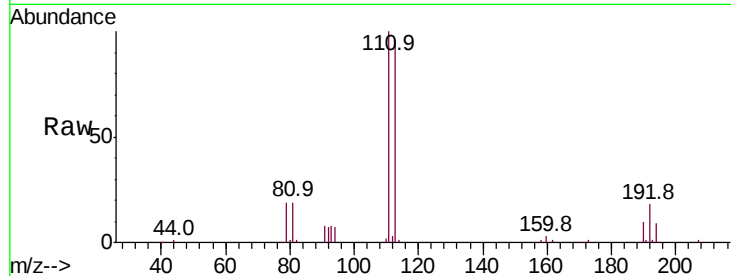




#35
 Dibromofluoromethane
 Concen: 49.360 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058576.D
 Acq: 7 Oct 2019 18:59

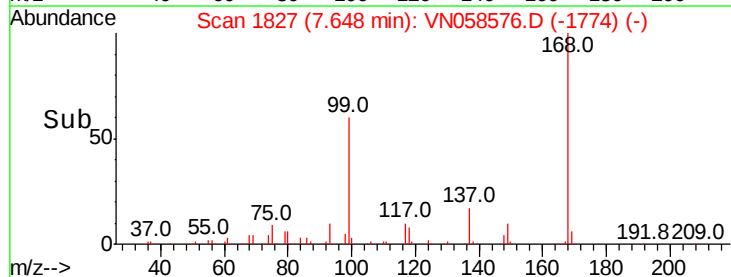
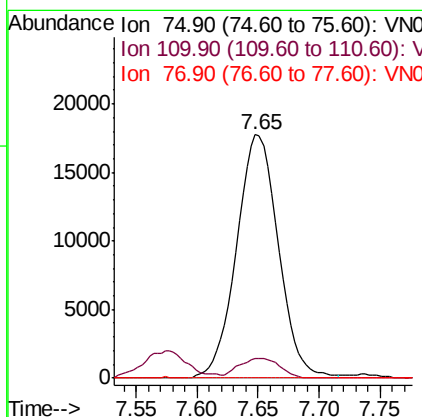
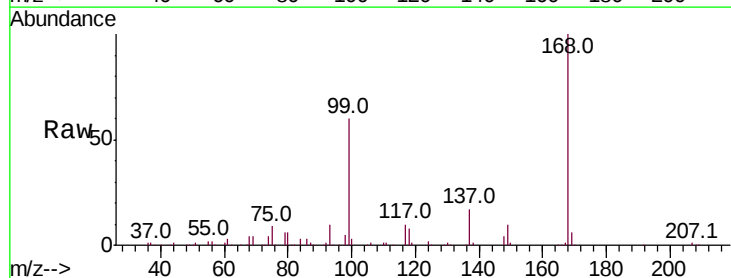
Instrument :
 MSVOA_N
 ClientSampleId :

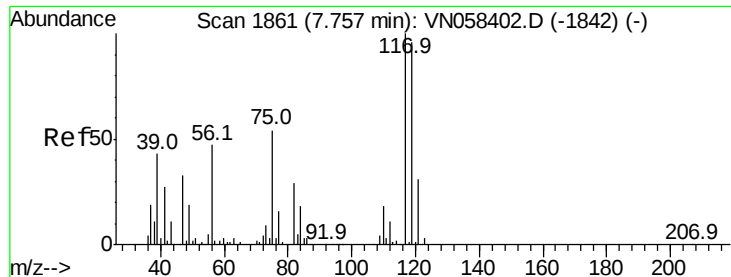
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	83.4	125.2
192	18.9	14.9	22.3



#36
 1,1-Dichloropropene
 Concen: 5.587 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058576.D
 Acq: 7 Oct 2019 18:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	16.4	49.2#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 7.363 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058576.D

Acq: 7 Oct 2019 18:59

Instrument :

MSVOA_N

ClientSampleId :

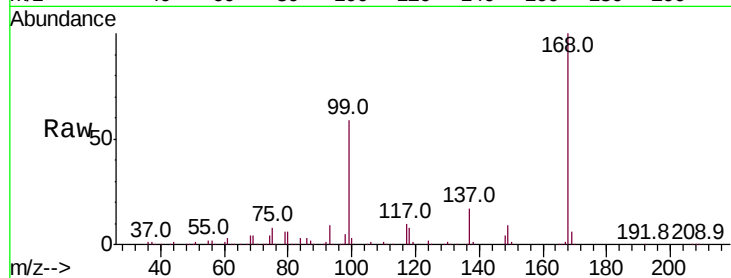
Tot Ion:117 Resp: 50103

Ion Ratio Lower Upper

117 100

119 5.2 76.6 115.0#

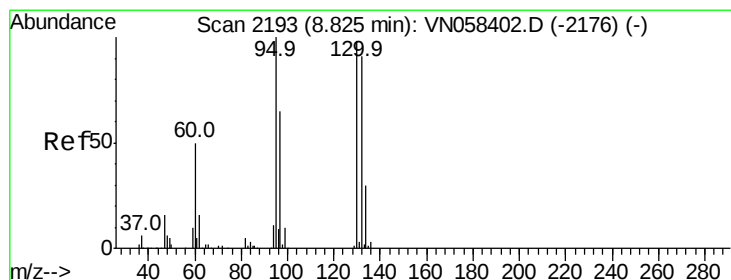
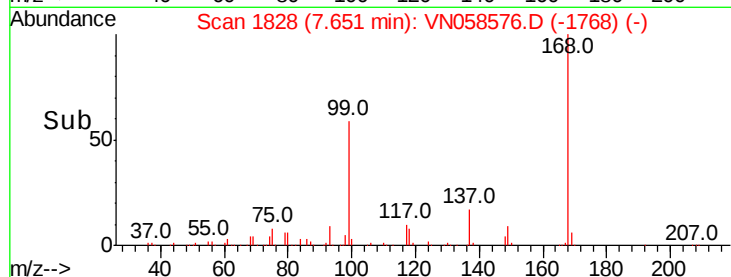
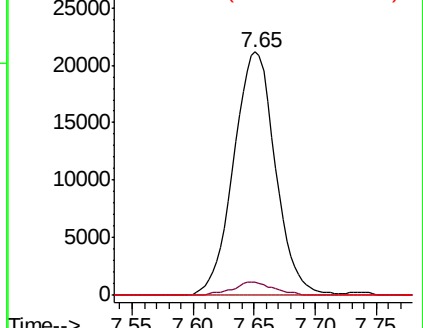
121 0.0 24.7 37.1#



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



#44

Trichloroethene

Concen: 0.834 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VN058576.D

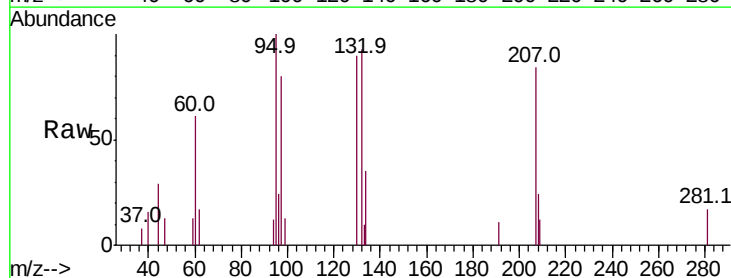
Acq: 7 Oct 2019 18:59

Tgt Ion:130 Resp: 4463

Ion Ratio Lower Upper

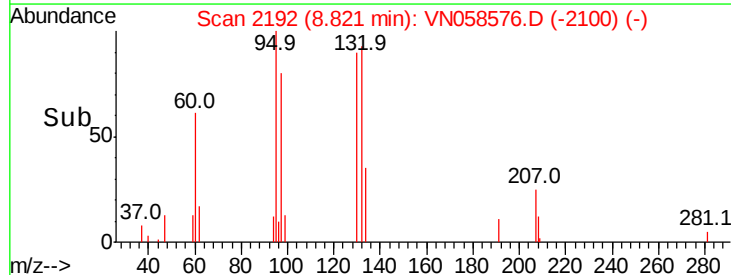
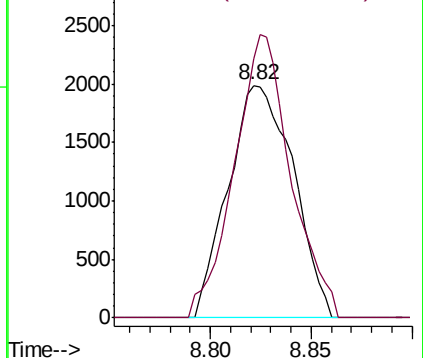
130 100

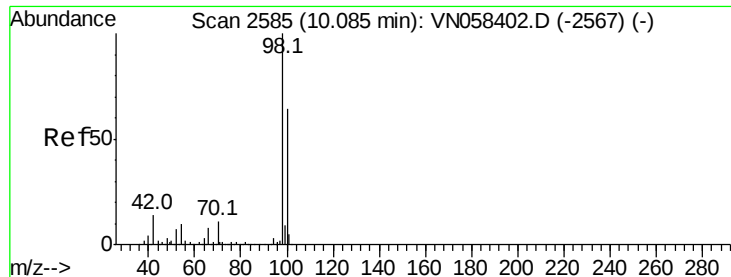
95 111.1 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 50.553 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058576.D

Acq: 7 Oct 2019 18:59

Instrument :

MSVOA_N

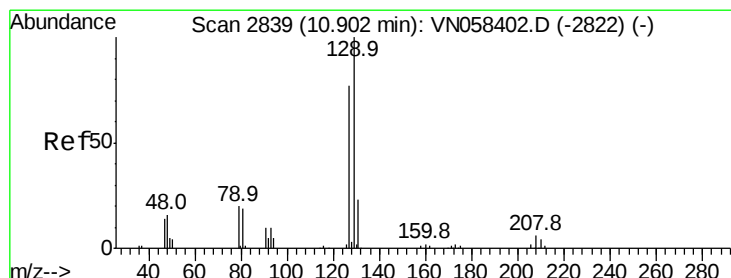
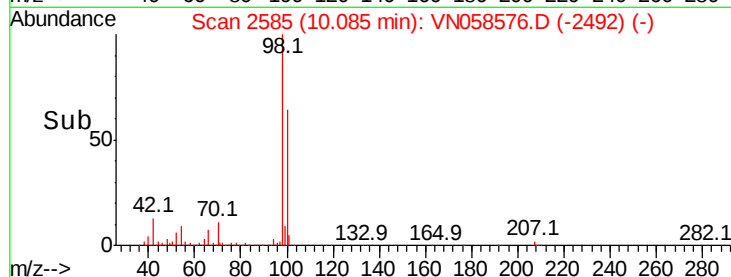
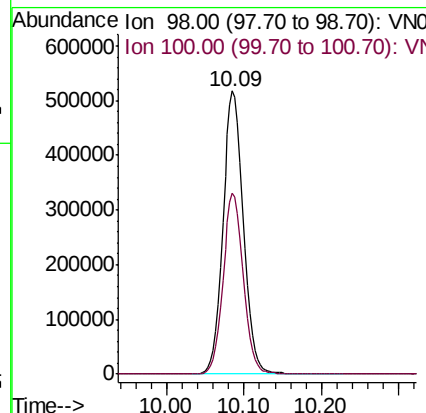
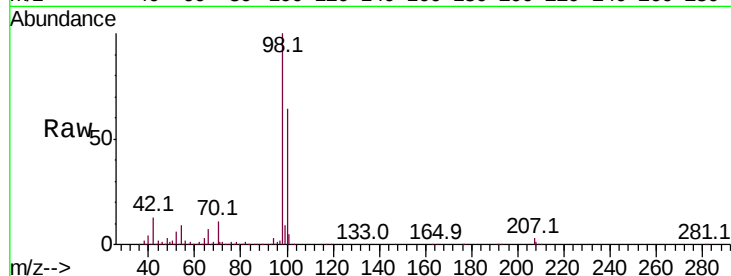
ClientSampled :

Tot Ion: 98 Resp: 956893

Ion Ratio Lower Upper

98 100

100 63.4 51.0 76.6



#60

Dibromochloromethane

Concen: 28.760 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058576.D

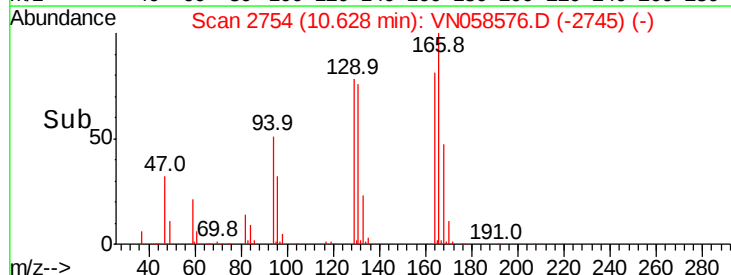
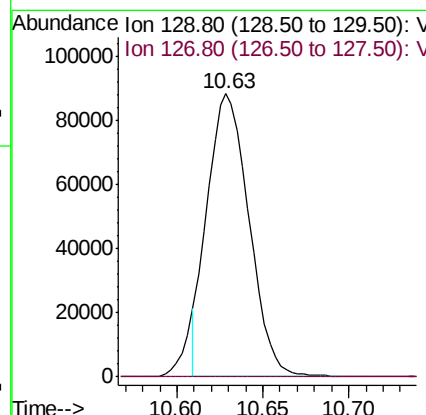
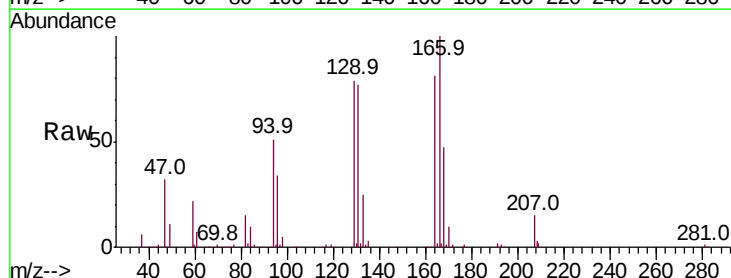
Acq: 7 Oct 2019 18:59

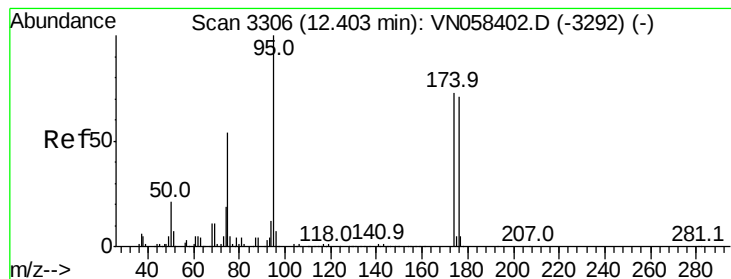
Tgt Ion: 129 Resp: 149113

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#





#62

4-Bromofluorobenzene

Concen: 47.041 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058576.D

Acq: 7 Oct 2019 18:59

Instrument :

MSVOA_N

ClientSampled :

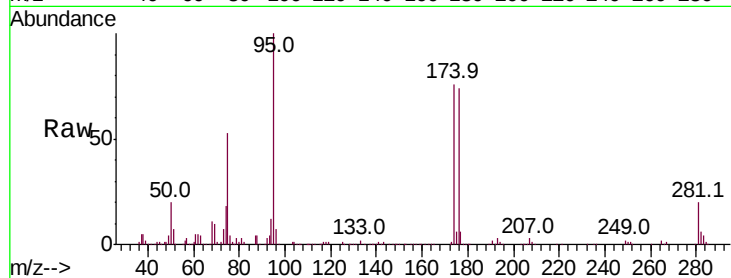
Tot Ion: 95 Resp: 321960

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.6

176 73.6 0.0 146.2

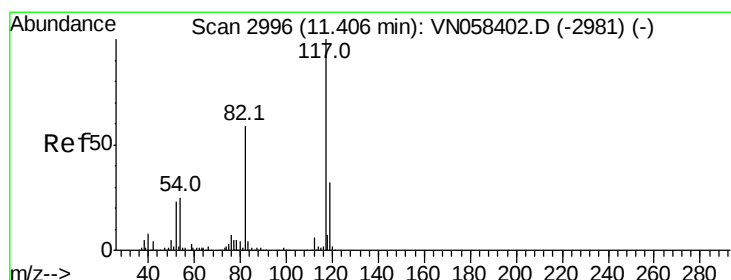
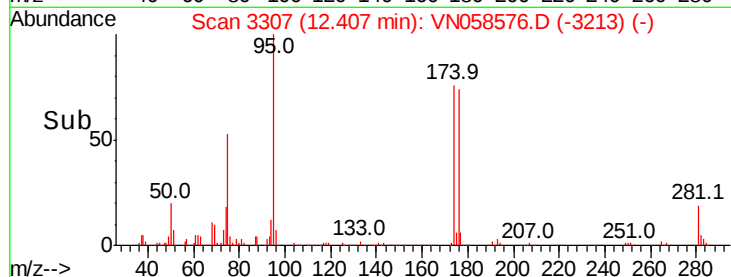


Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

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

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

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058576.D

Acq: 7 Oct 2019 18:59

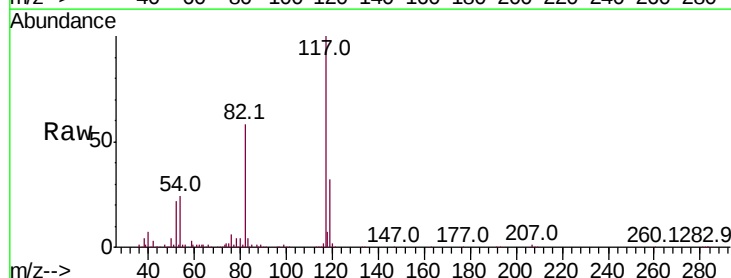
Tgt Ion: 117 Resp: 691571

Ion Ratio Lower Upper

117 100

82 58.3 47.4 71.0

119 31.7 25.5 38.3

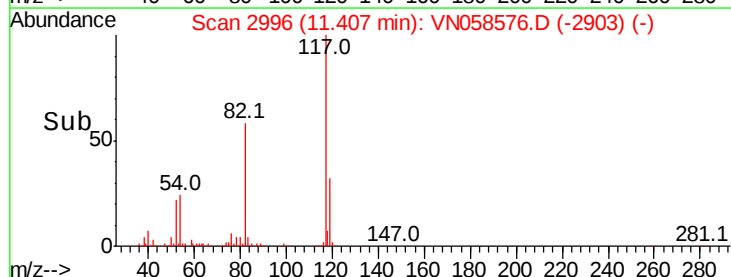


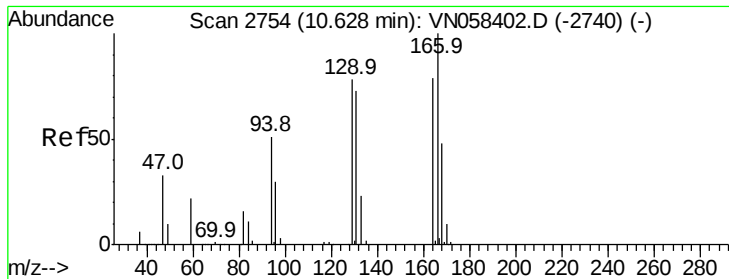
Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

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

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

Time--> 11.30 11.40 11.50





#64

Tetrachloroethene

Concen: 36.973 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058576.D

Acq: 7 Oct 2019 18:59

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 162453

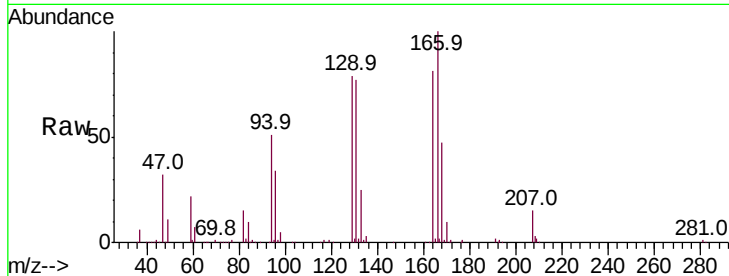
Ion Ratio Lower Upper

164 100

166 123.2 101.1 151.7

129 97.5 79.2 118.8

131 94.4 74.1 111.1

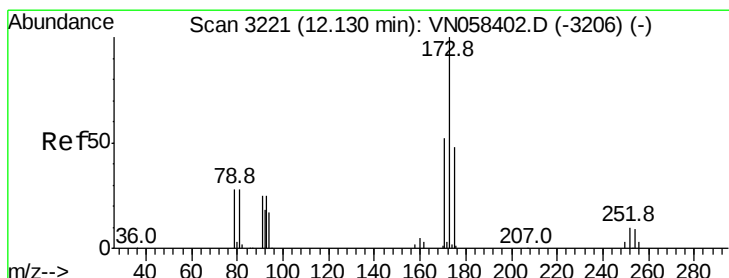
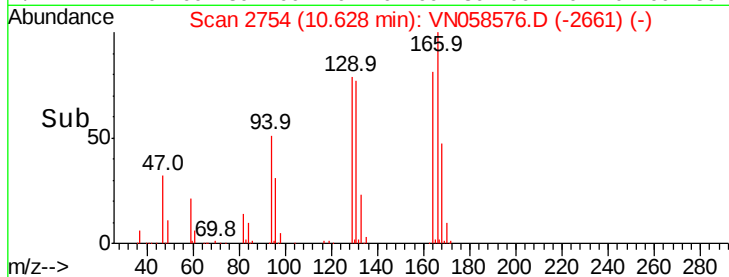
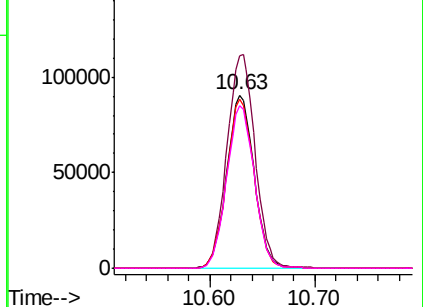


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 1.214 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058576.D

Acq: 7 Oct 2019 18:59

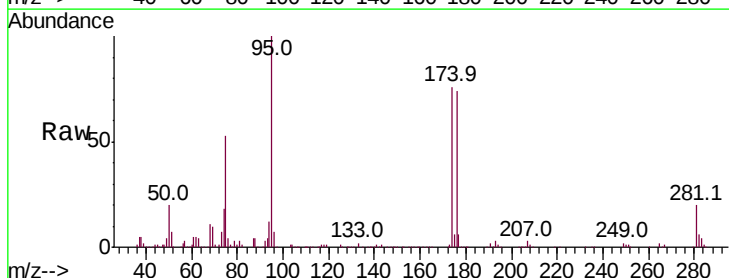
Tgt Ion:173 Resp: 1687

Ion Ratio Lower Upper

173 100

175 938.4 24.3 73.0#

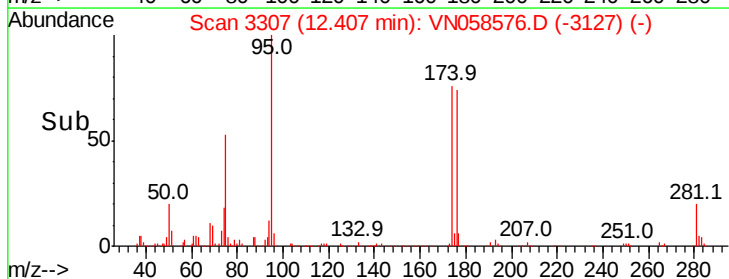
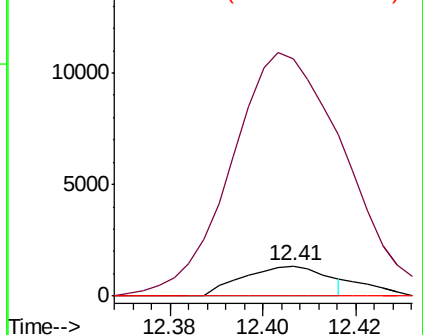
254 0.0 0.1 0.1#

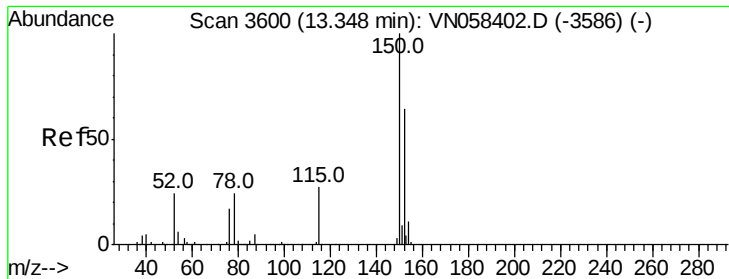


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN058576.D

Acq: 7 Oct 2019 18:59

Instrument :

MSVOA_N

ClientSampleId :

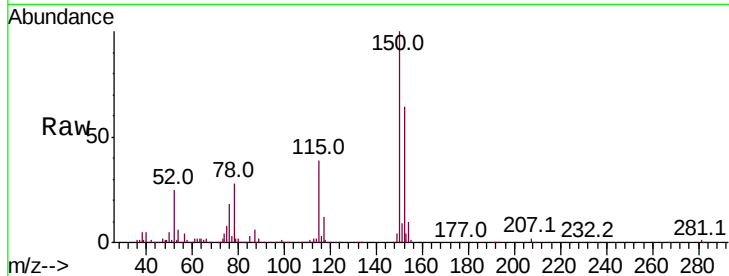
Tot Ion:152 Resp: 282066

Ion Ratio Lower Upper

152 100

115 60.4 30.0 90.0

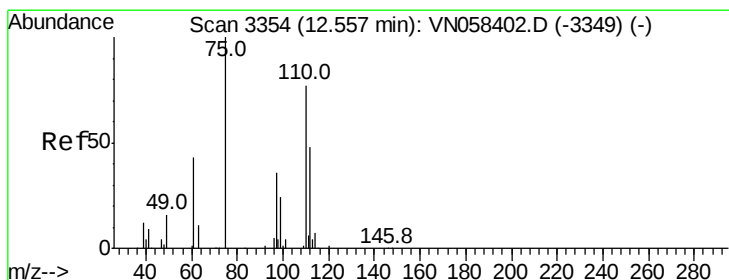
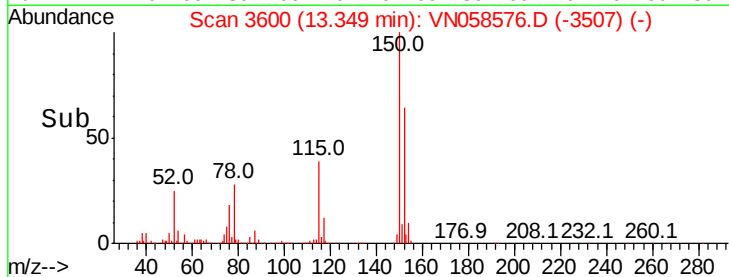
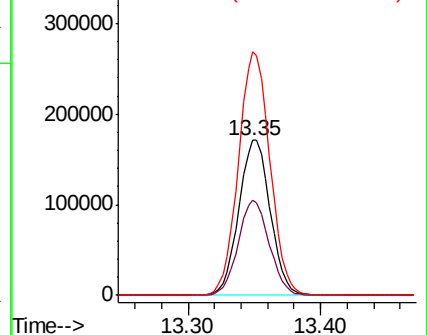
150 157.3 0.0 348.2



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



#76

1,2,3-Trichloropropane

Concen: 33.263 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058576.D

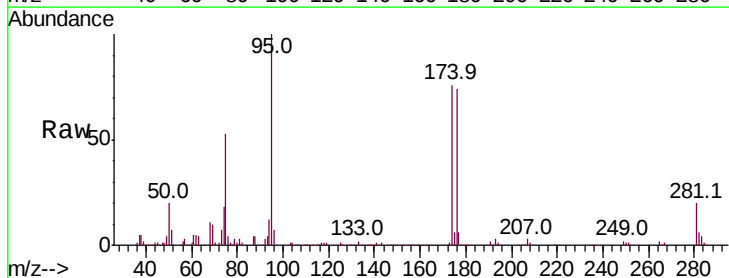
Acq: 7 Oct 2019 18:59

Tgt Ion: 75 Resp: 171371

Ion Ratio Lower Upper

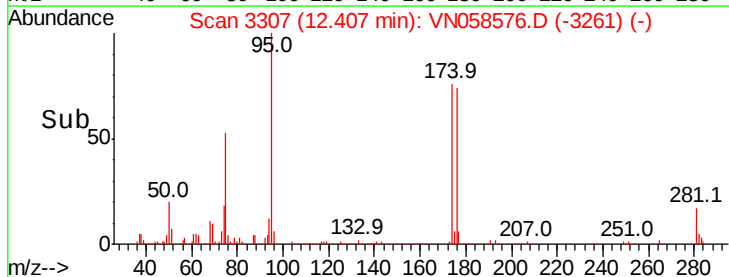
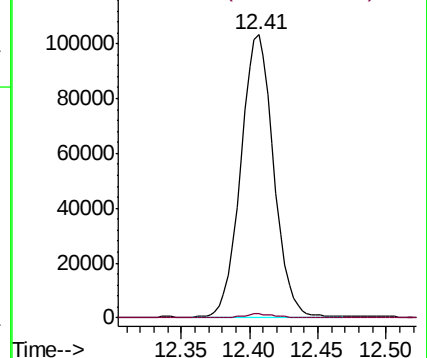
75 100

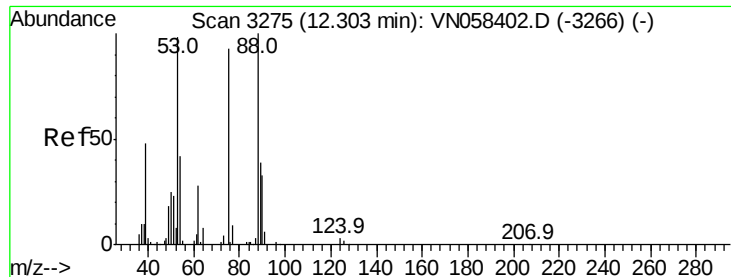
77 1.5 0.0 0.0#



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: 101.025 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058576.D

Acq: 7 Oct 2019 18:59

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 171371

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.1 35.0 52.4#

