

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102419\
 Data File : VN058932.D
 Acq On : 23 Oct 2019 16:08
 Operator : JC/SP
 Sample : K5486-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 24 01:14:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	300189	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	503716	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	446174	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	166508	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	246259	55.93	ug/l	0.00
Spiked Amount			Recovery	=	111.86%	
35) Dibromofluoromethane	7.57	113	174282	52.62	ug/l	0.00
Spiked Amount			Recovery	=	105.24%	
50) Toluene-d8	10.08	98	612029	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	
62) 4-Bromofluorobenzene	12.40	95	196148	41.55	ug/l	0.00
Spiked Amount			Recovery	=	83.10%	

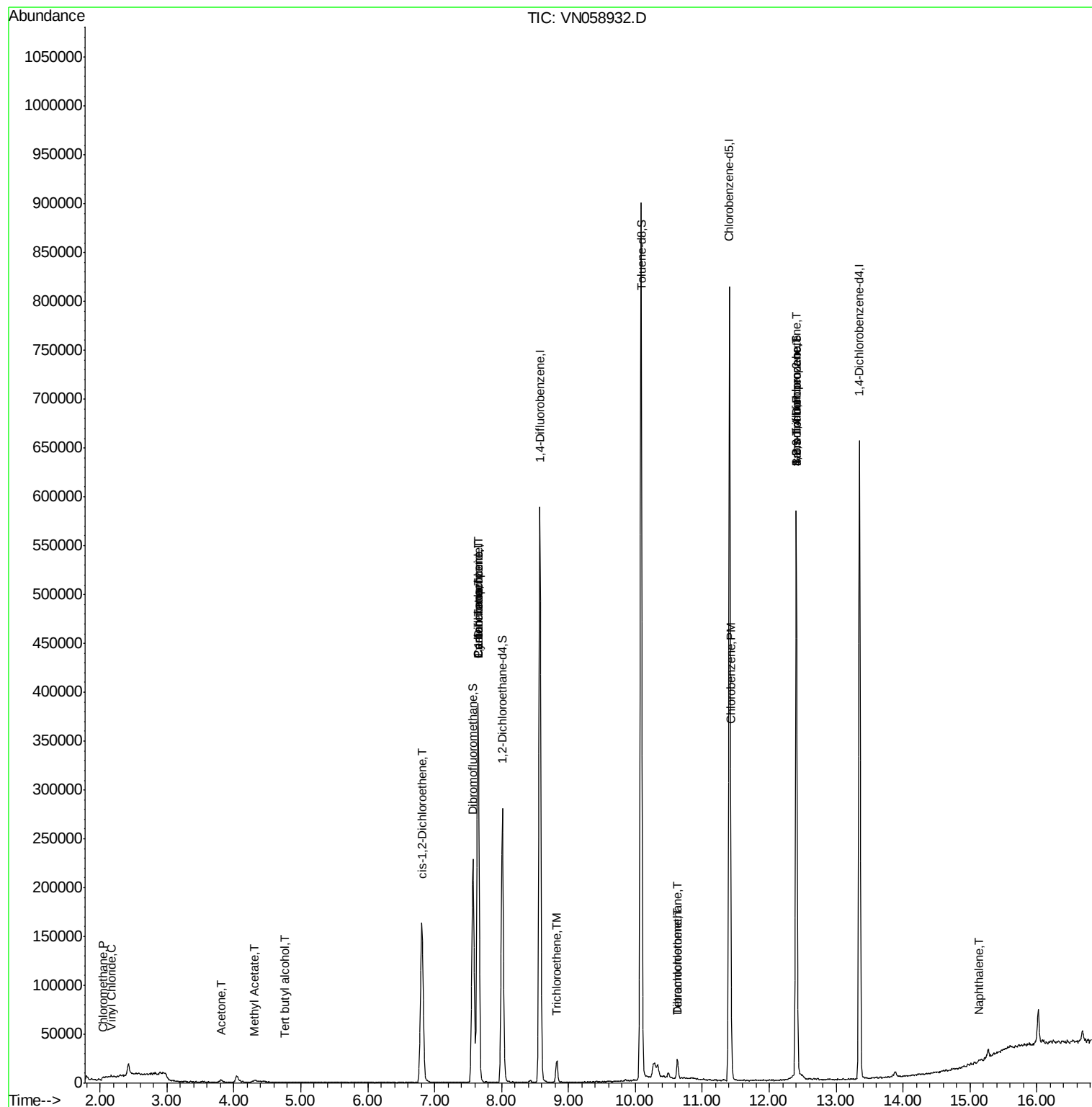
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1547	0.334	ug/l	99
4) Vinyl Chloride	2.17	62	990	0.215	ug/l	90
11) Tert butyl alcohol	4.76	59	206	0.282	ug/l #	72
16) Acetone	3.81	43	4078	1.874	ug/l	99
18) Methyl Acetate	4.31	43	3478	0.703	ug/l #	64
27) cis-1,2-Dichloroethene	6.81	96	104265	27.928	ug/l	89
31) Cyclohexane	7.65	56	7103	1.123	ug/l #	6
36) 1,1-Dichloropropene	7.65	75	25344	4.914	ug/l #	51
38) Carbon Tetrachloride	7.65	117	30440	5.730	ug/l #	17
44) Trichloroethene	8.82	130	8179	2.217	ug/l	94
60) Dibromochloromethane	10.63	129	4131	1.037	ug/l #	10
64) Tetrachloroethene	10.63	164	4302	1.377	ug/l	97
65) Chlorobenzene	11.43	112	10691	1.177	ug/l	100
71) Bromoform	12.40	173	783	0.295	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	105231	27.269	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	105231	71.038	ug/l #	10
95) Naphthalene	15.14	128	239	2.249	ug/l #	70

(#) = 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: VN058932.D

Acq: 23 Oct 2019 16:08

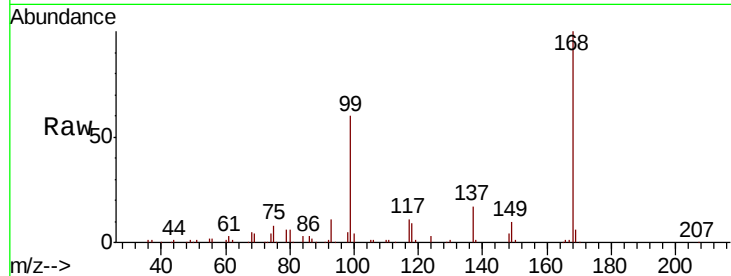
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 300189

Ion Ratio Lower Upper

168 100

99 60.0 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

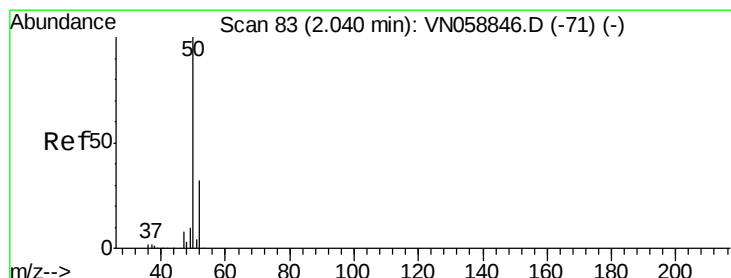
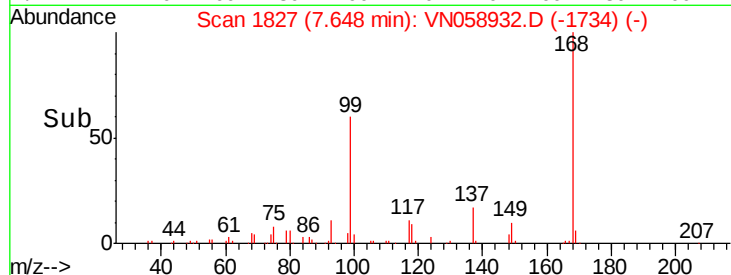
100000

50000

0

Time-->

7.60 7.70 7.80



#3

Chloromethane

Concen: 0.334 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058932.D

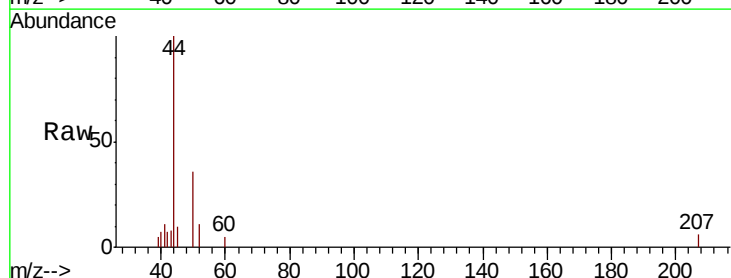
Acq: 23 Oct 2019 16:08

Tgt Ion: 50 Resp: 1547

Ion Ratio Lower Upper

50 100

52 31.6 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1200

1000

800

600

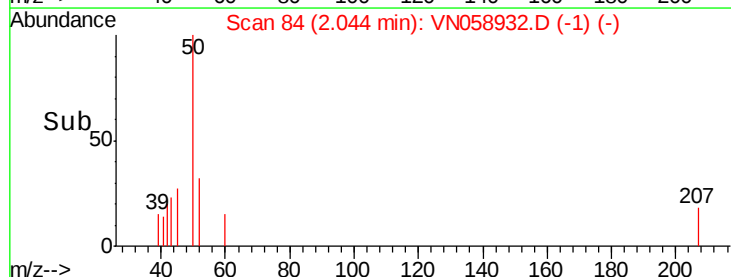
400

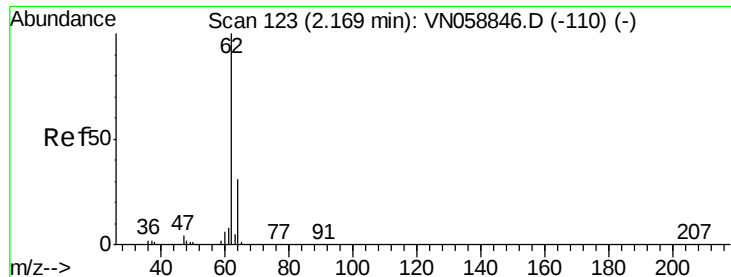
200

0

Time-->

2.00 2.02 2.04 2.06 2.08





#4

Vinyl Chloride

Concen: 0.215 ug/l

RT: 2.17 min Scan# 122

Delta R.T. -0.00 min

Lab File: VN058932.D

Acq: 23 Oct 2019 16:08

Instrument :

MSVOA_N

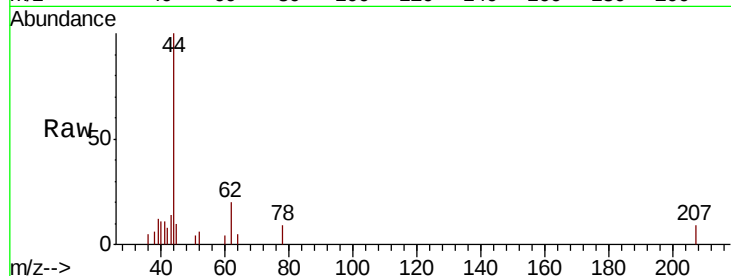
ClientSampled :

Tot Ion: 62 Resp: 990

Ion Ratio Lower Upper

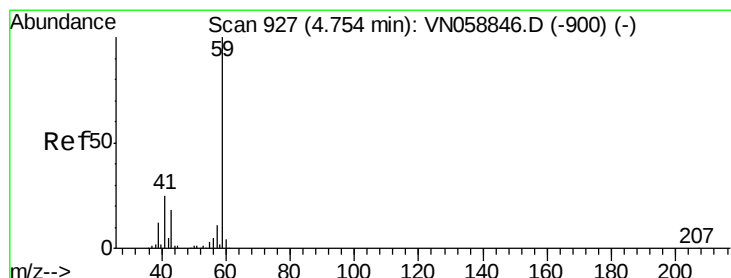
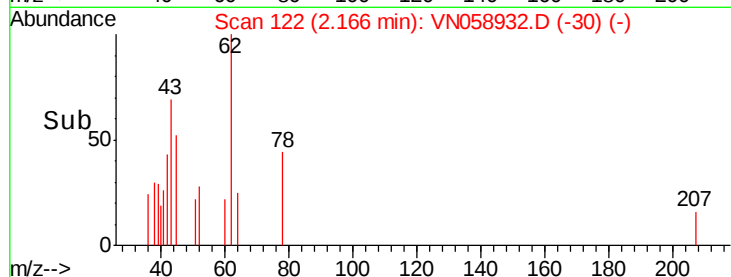
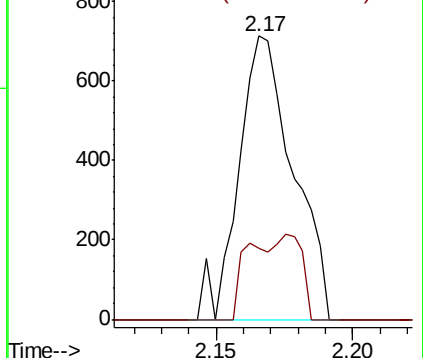
62 100

64 25.0 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



#11

Tert butyl alcohol

Concen: 0.282 ug/l

RT: 4.76 min Scan# 928

Delta R.T. 0.00 min

Lab File: VN058932.D

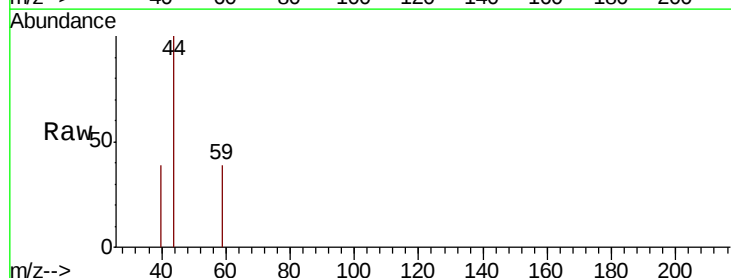
Acq: 23 Oct 2019 16:08

Tgt Ion: 59 Resp: 206

Ion Ratio Lower Upper

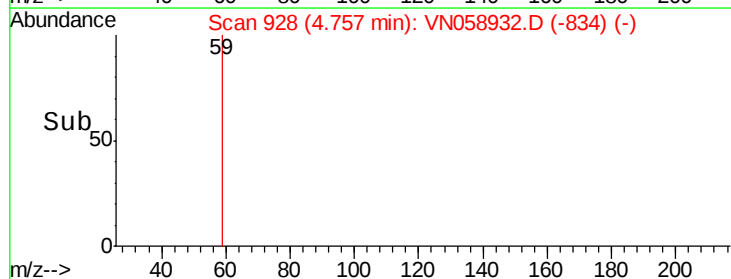
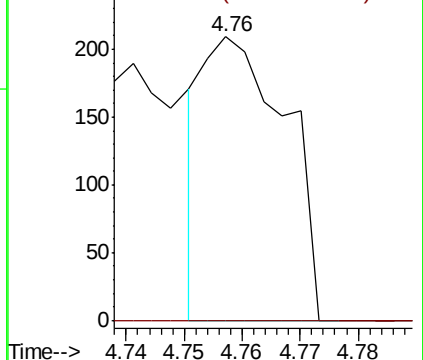
59 100

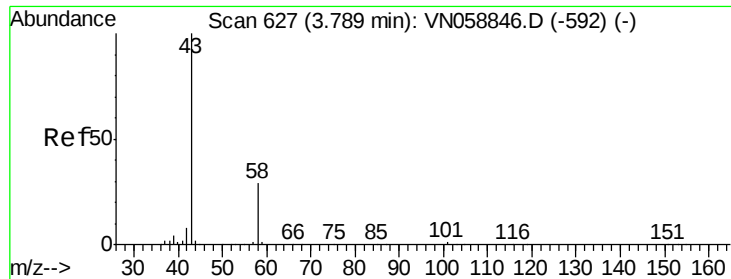
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 1.874 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.02 min

Lab File: VN058932.D

Acq: 23 Oct 2019 16:08

Instrument :

MSVOA_N

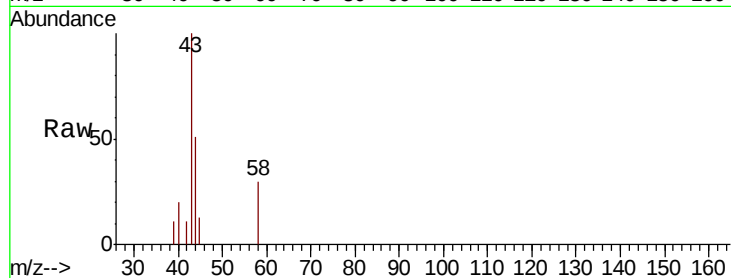
ClientSampleId :

Tot Ion: 43 Resp: 4078

Ion Ratio Lower Upper

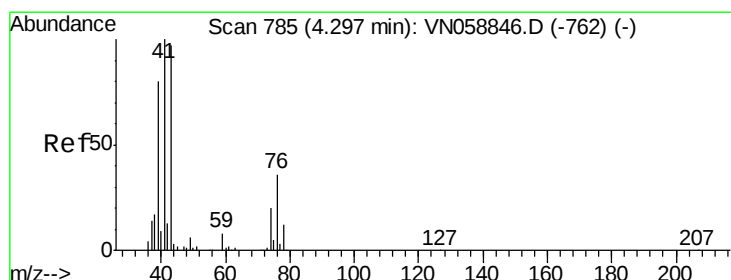
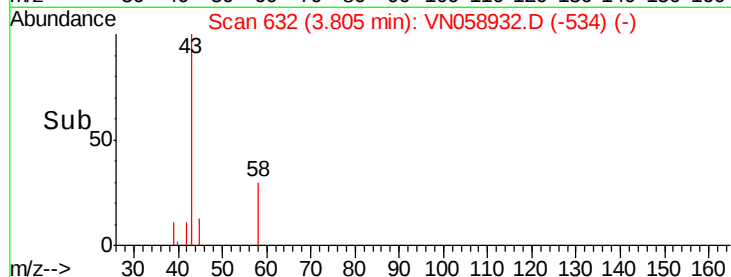
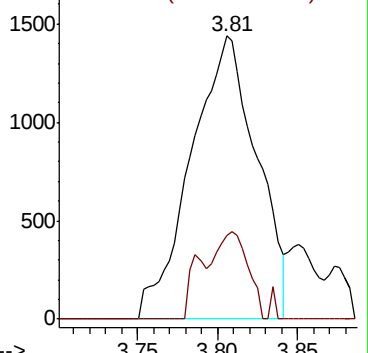
43 100

58 29.6 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.703 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.02 min

Lab File: VN058932.D

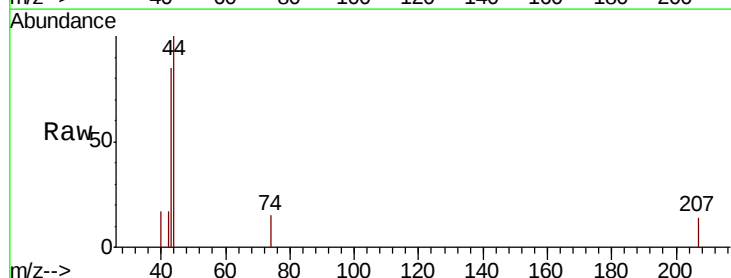
Acq: 23 Oct 2019 16:08

Tgt Ion: 43 Resp: 3478

Ion Ratio Lower Upper

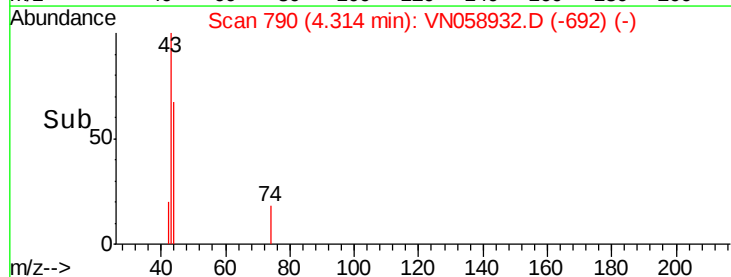
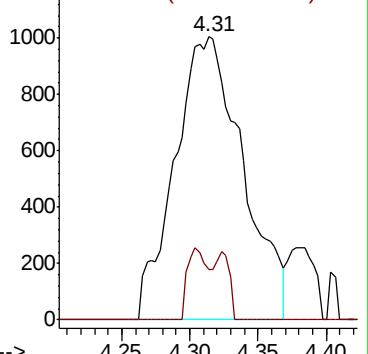
43 100

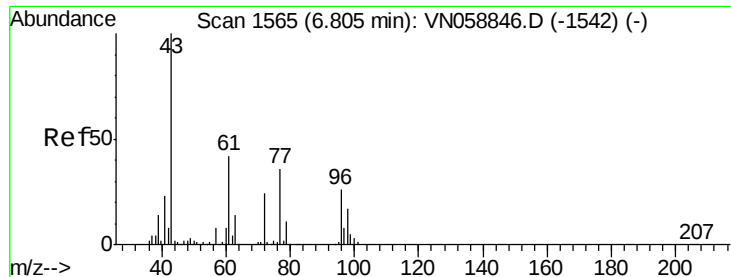
74 4.6 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#27

cis-1,2-Dichloroethene

Concen: 27.928 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058932.D

Acq: 23 Oct 2019 16:08

Instrument :

MSVOA_N

ClientSampled :

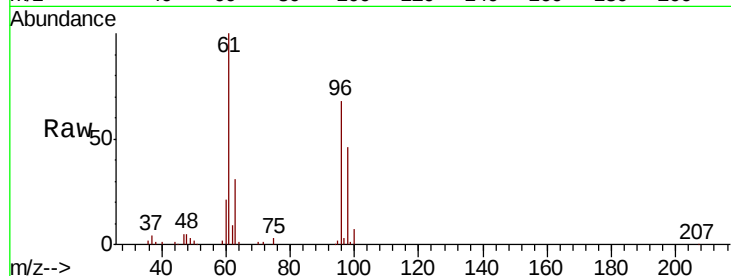
Tot Ion: 96 Resp: 104265

Ion Ratio Lower Upper

96 100

61 142.3 0.0 325.0

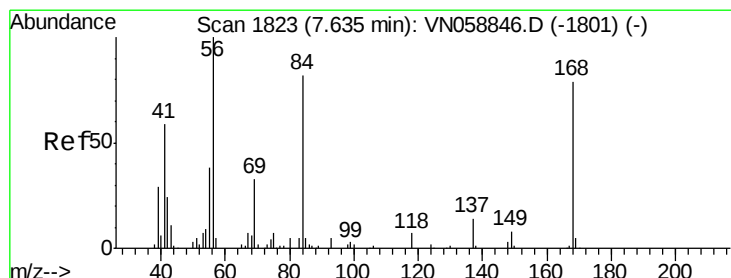
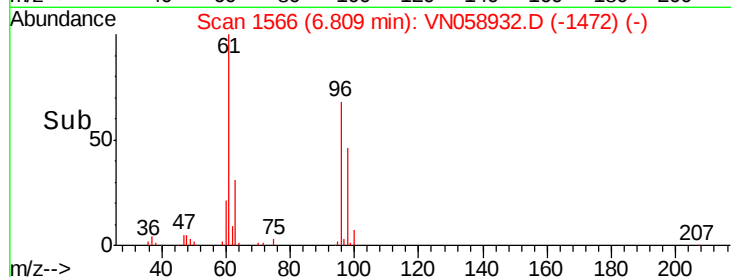
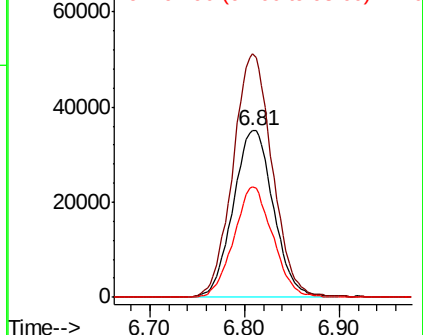
98 63.7 0.0 128.0



Abundance Ion 95.90 (95.60 to 96.60): VN058846.D (-1542) (-)

Ion 60.90 (60.60 to 61.60): VN058846.D (-1542) (-)

Ion 97.90 (97.60 to 98.60): VN058846.D (-1542) (-)



#31

Cyclohexane

Concen: 1.123 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058932.D

Acq: 23 Oct 2019 16:08

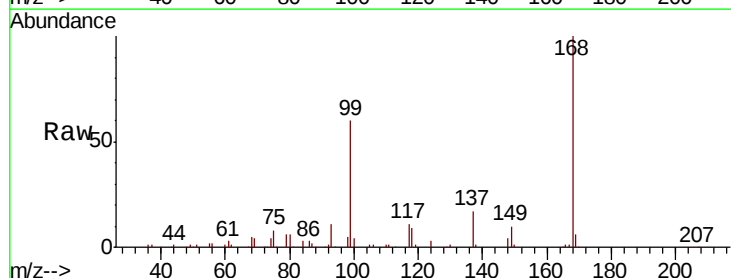
Tgt Ion: 56 Resp: 7103

Ion Ratio Lower Upper

56 100

69 153.6 26.2 39.4#

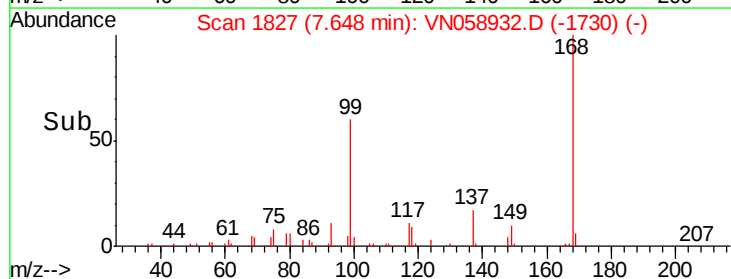
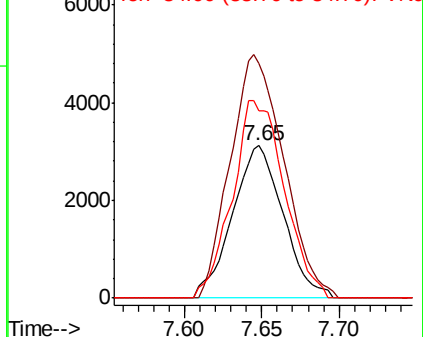
84 123.0 65.6 98.4#

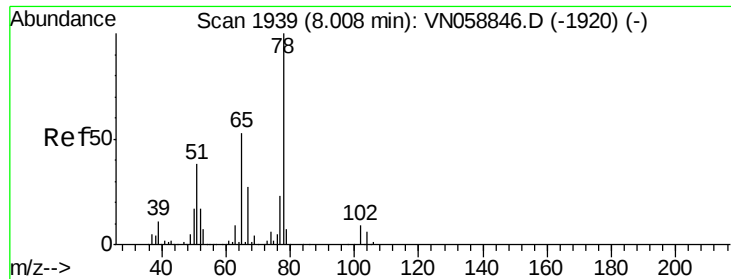


Abundance Ion 56.00 (55.70 to 56.70): VN058846.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN058846.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN058846.D (-1801) (-)

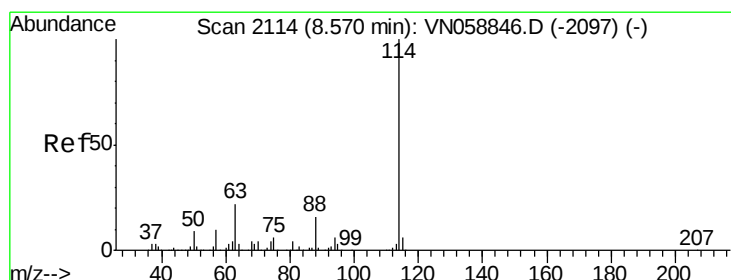
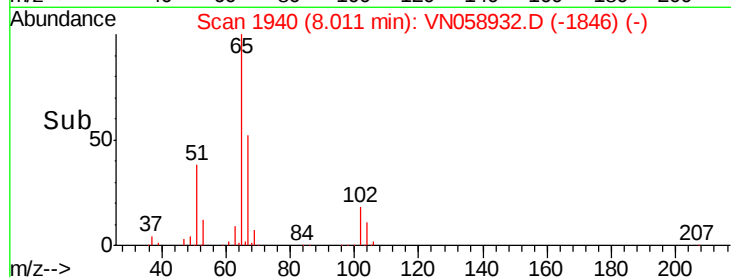
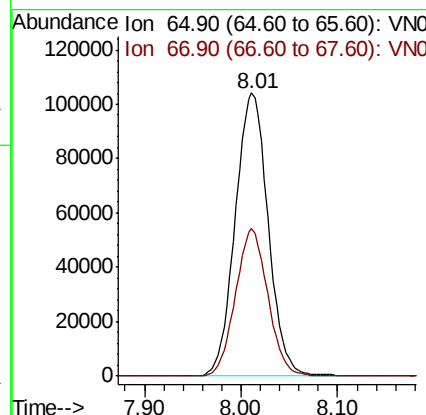
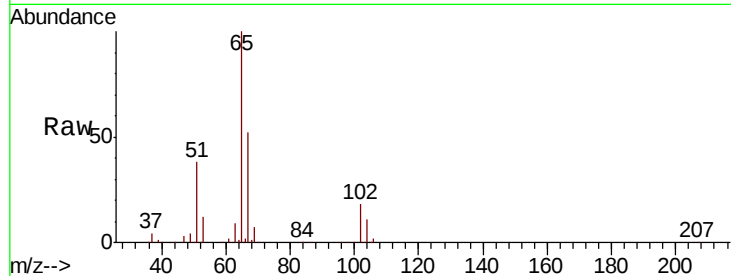




#33
 1,2-Dichloroethane-d4
 Concen: 55.933 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058932.D
 Acq: 23 Oct 2019 16:08

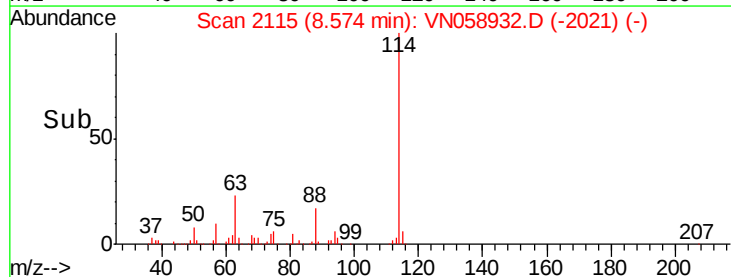
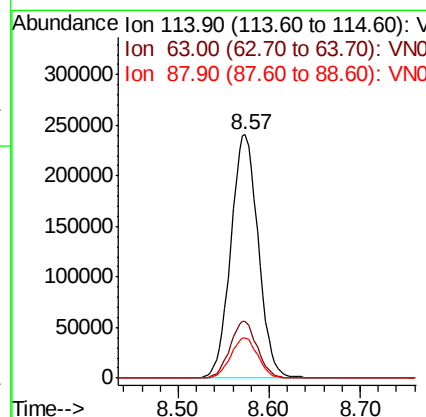
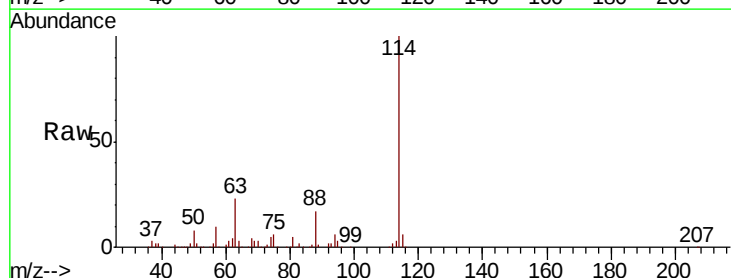
Instrument :
 MSVOA_N
 ClientSampleId :

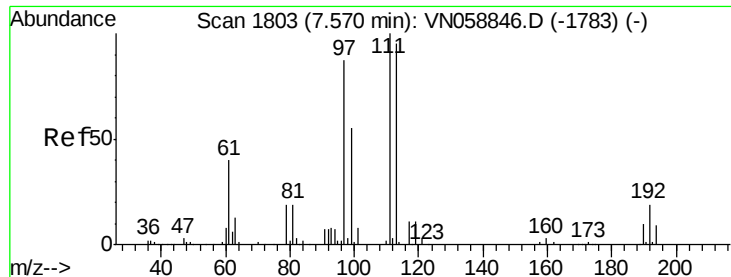
Tot Ion: 65 Resp: 246259
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058932.D
 Acq: 23 Oct 2019 16:08

Tgt Ion: 114 Resp: 503716
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 44.4
 88 16.5 0.0 31.4

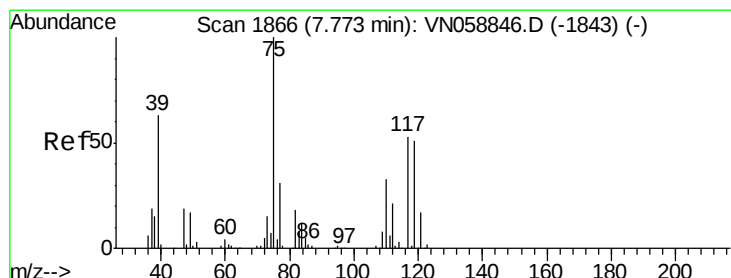
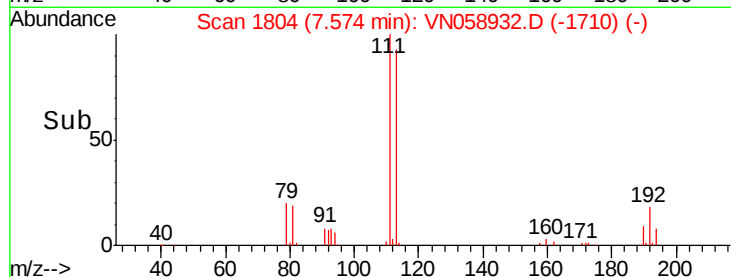
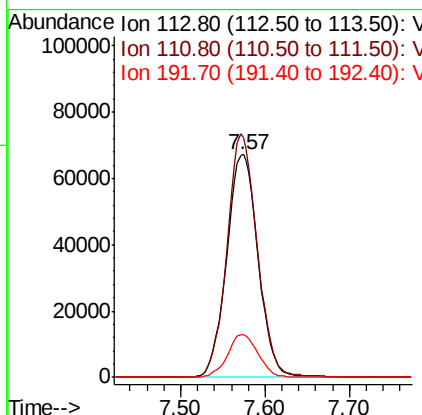
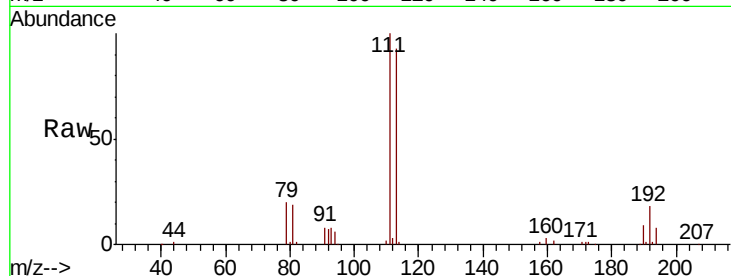




#35
 Dibromofluoromethane
 Concen: 52.625 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058932.D
 Acq: 23 Oct 2019 16:08

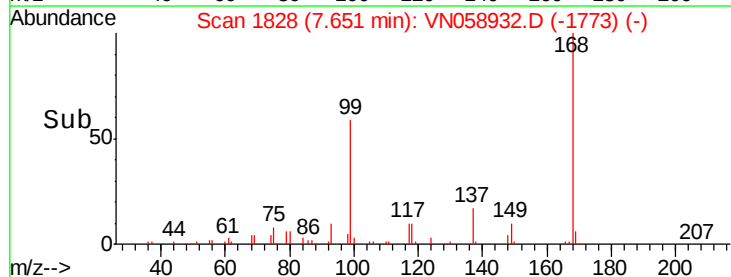
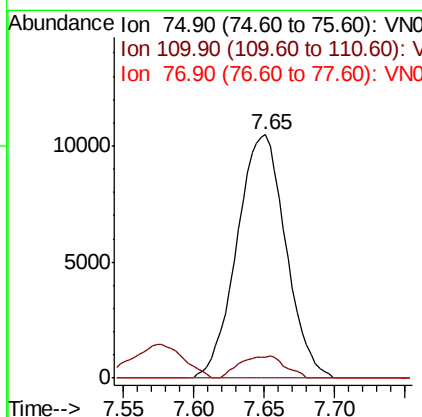
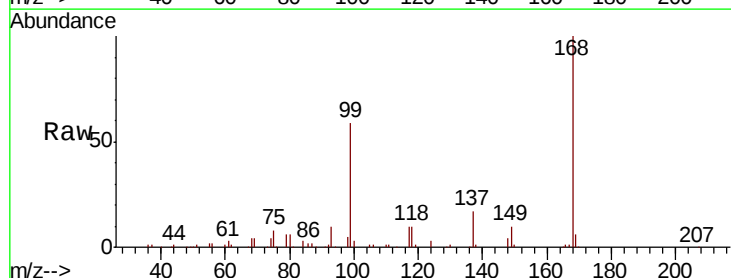
Instrument :
 MSVOA_N
 ClientSampleId :

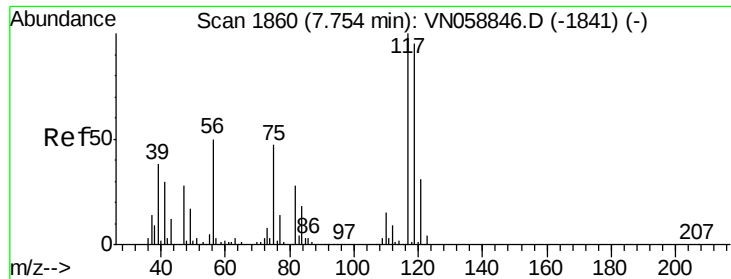
Tot Ion:113 Resp: 174282
 Ion Ratio Lower Upper
 113 100
 111 105.0 82.0 123.0
 192 18.5 15.0 22.6



#36
 1,1-Dichloropropene
 Concen: 4.914 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.12 min
 Lab File: VN058932.D
 Acq: 23 Oct 2019 16:08

Tgt Ion: 75 Resp: 25344
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.3 48.9#
 77 0.0 24.6 36.8#

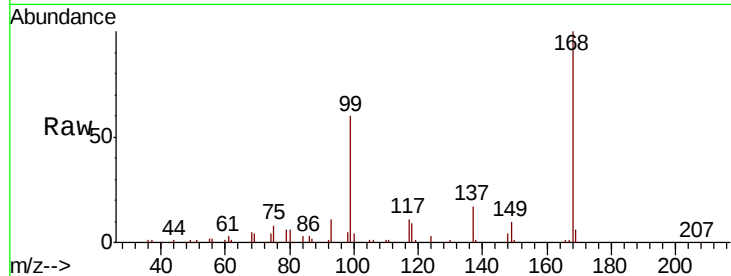




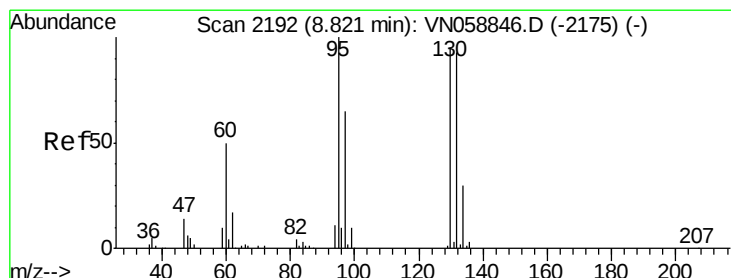
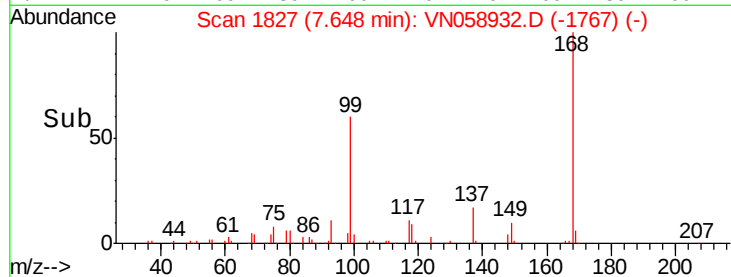
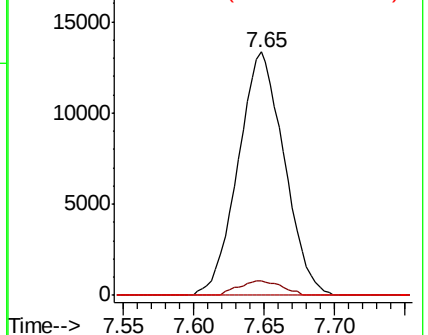
#38
Carbon Tetrachloride
Concen: 5.730 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058932.D
Acq: 23 Oct 2019 16:08

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 30440
Ion Ratio Lower Upper
117 100
119 5.9 75.7 113.5#
121 0.0 25.0 37.6#

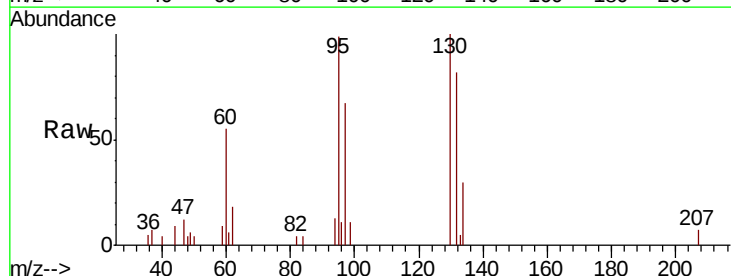


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

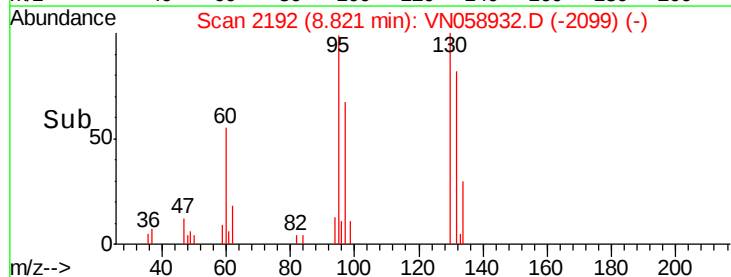
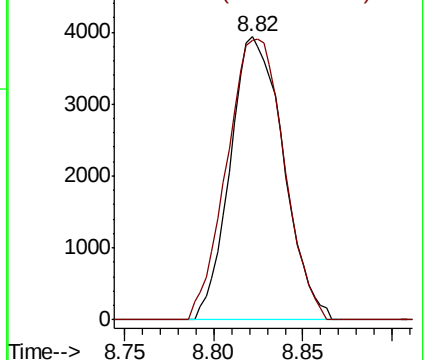


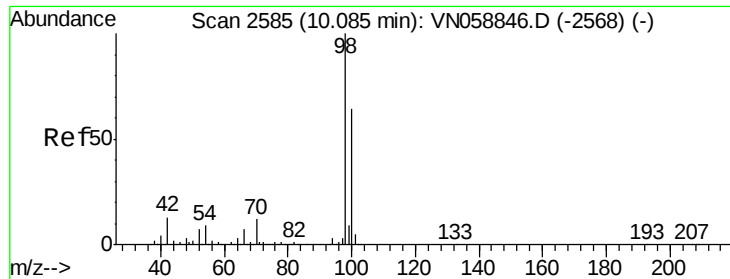
#44
Trichloroethene
Concen: 2.217 ug/l
RT: 8.82 min Scan# 2192
Delta R.T. 0.00 min
Lab File: VN058932.D
Acq: 23 Oct 2019 16:08

Tgt Ion:130 Resp: 8179
Ion Ratio Lower Upper
130 100
95 98.9 0.0 209.6



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 47.607 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058932.D

Acq: 23 Oct 2019 16:08

Instrument :

MSVOA_N

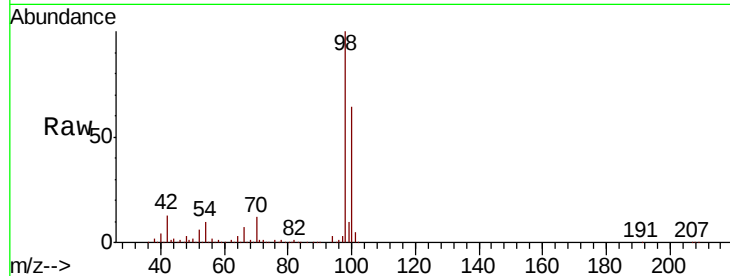
ClientSampleId :

Tot Ion: 98 Resp: 612029

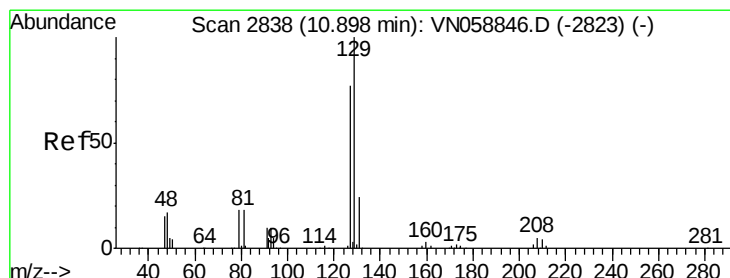
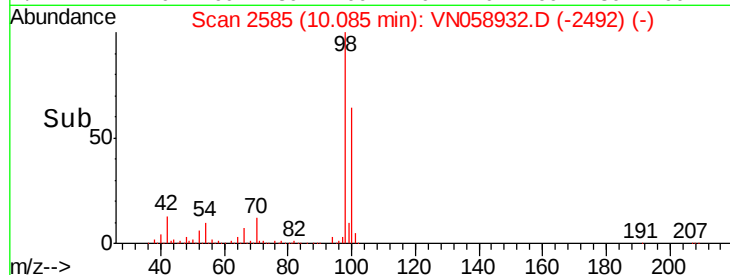
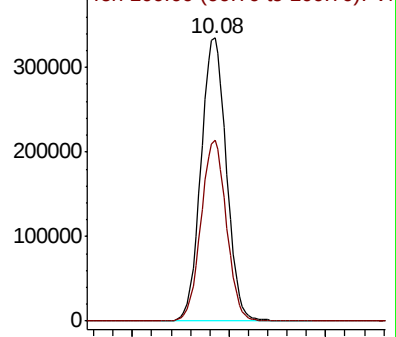
Ion Ratio Lower Upper

98 100

100 63.7 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN058846.D (-2568) (-)



#60

Dibromochloromethane

Concen: 1.037 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058932.D

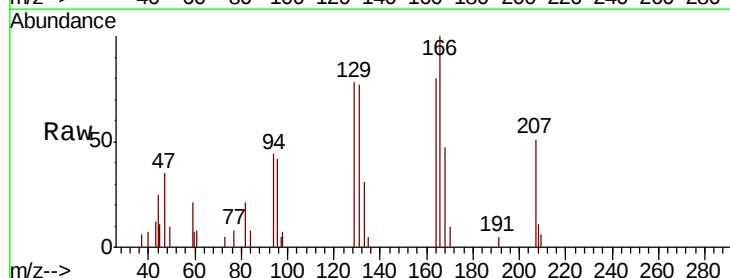
Acq: 23 Oct 2019 16:08

Tgt Ion: 129 Resp: 4131

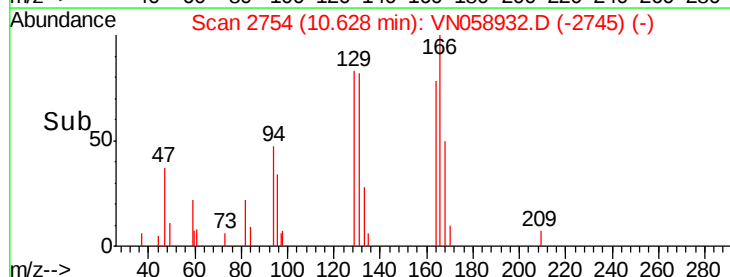
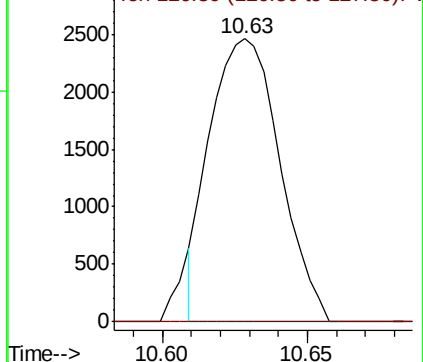
Ion Ratio Lower Upper

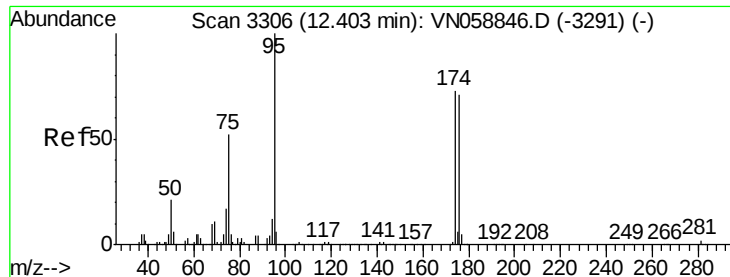
129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): VN058846.D (-2823) (-)





#62

4-Bromofluorobenzene

Concen: 41.548 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058932.D

Acq: 23 Oct 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

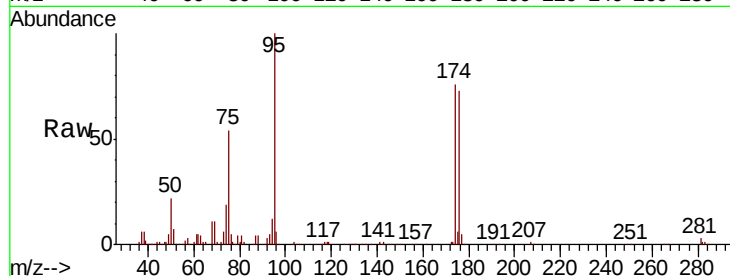
Tot Ion: 95 Resp: 196148

Ion Ratio Lower Upper

95 100

174 75.9 0.0 147.6

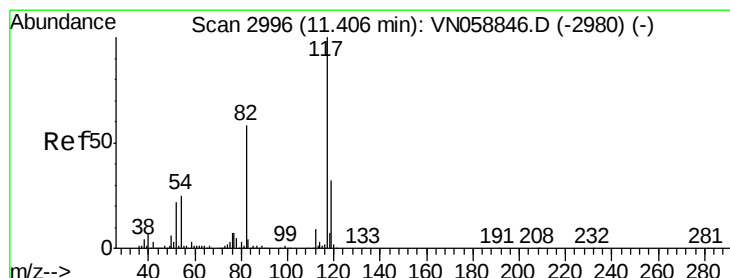
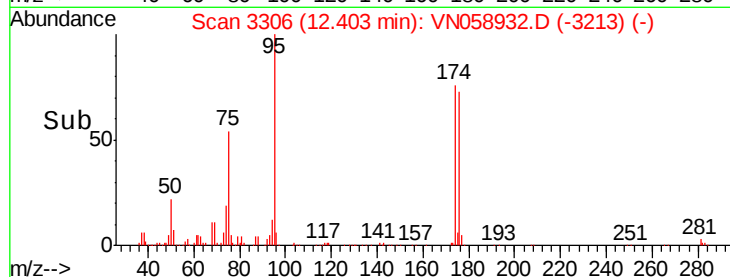
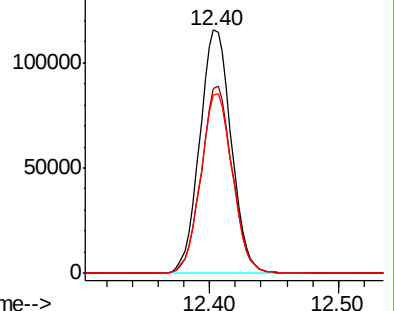
176 74.4 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): VN058846.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058846.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058846.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058932.D

Acq: 23 Oct 2019 16:08

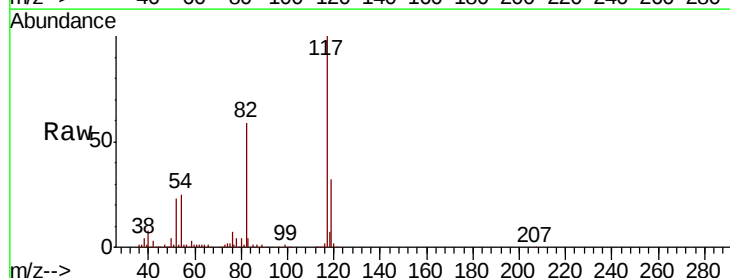
Tgt Ion: 117 Resp: 446174

Ion Ratio Lower Upper

117 100

82 59.2 46.6 69.8

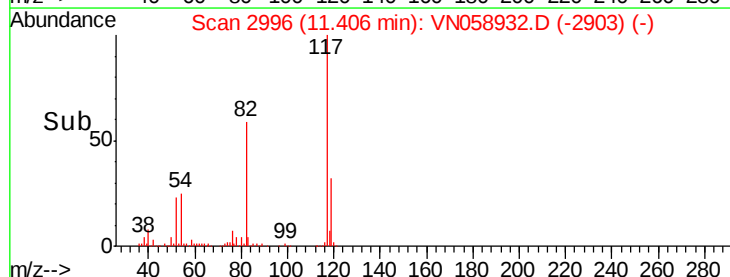
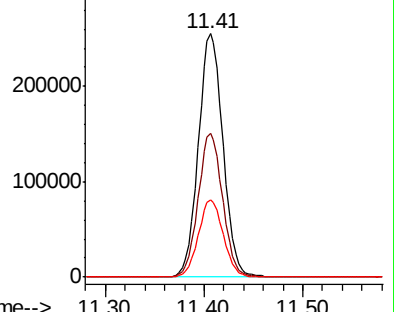
119 31.9 25.6 38.4

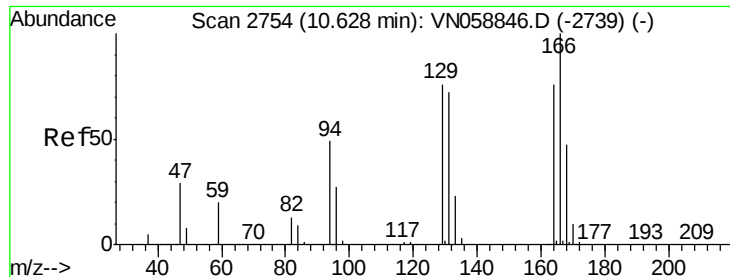


Abundance Ion 116.90 (116.60 to 117.60): VN058846.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058846.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058846.D (-2980) (-)

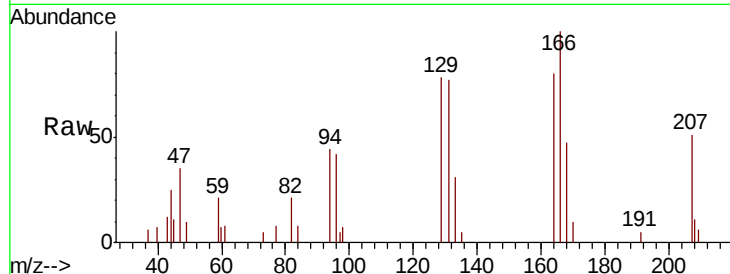




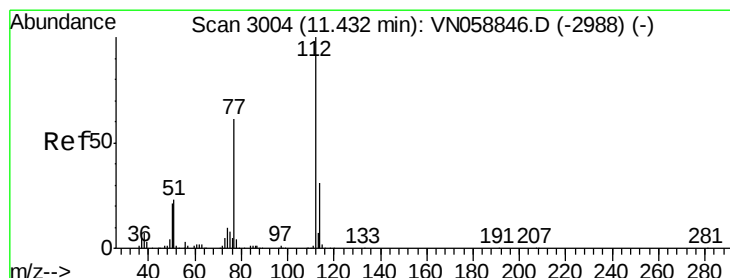
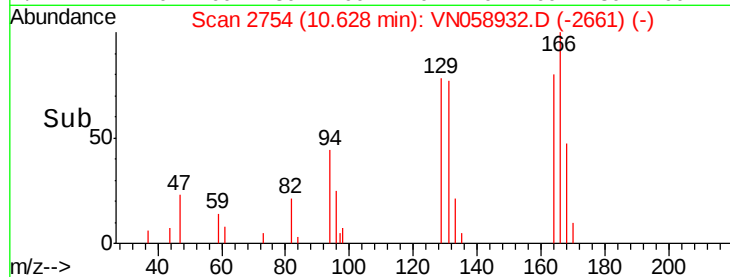
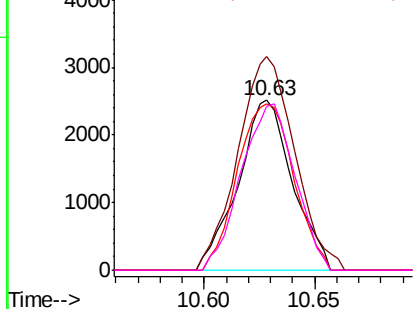
#64
Tetrachloroethene
Concen: 1.377 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058932.D
Acq: 23 Oct 2019 16:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:164 Resp: 4302
Ion Ratio Lower Upper
164 100
166 125.6 104.8 157.2
129 97.9 79.3 118.9
131 96.4 75.8 113.6

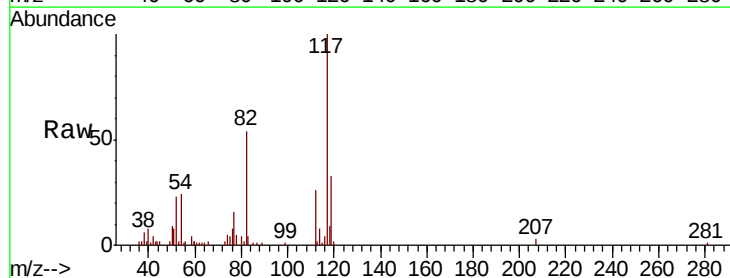


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

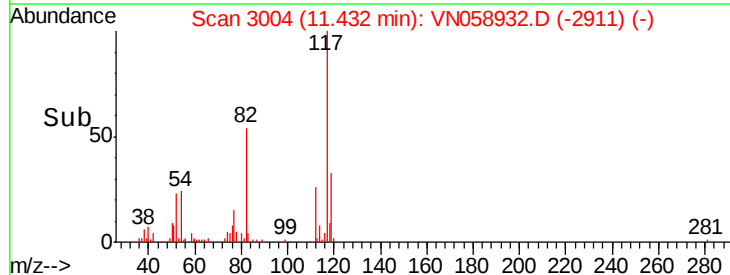
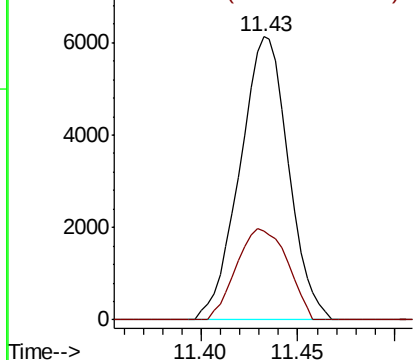


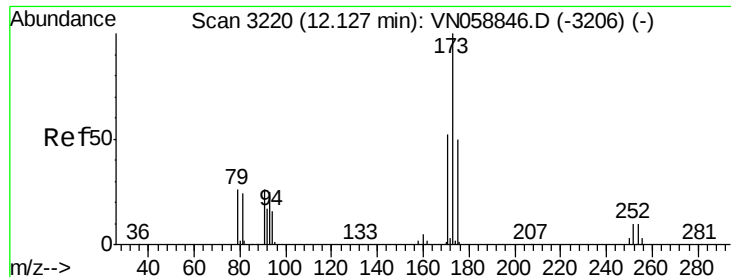
#65
Chlorobenzene
Concen: 1.177 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058932.D
Acq: 23 Oct 2019 16:08

Tgt Ion:112 Resp: 10691
Ion Ratio Lower Upper
112 100
114 31.3 25.1 37.7



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.295 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN058932.D

Acq: 23 Oct 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

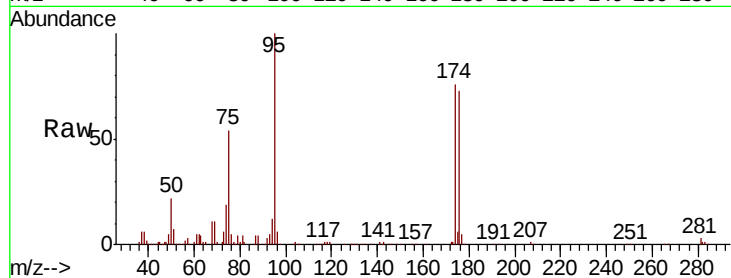
Tot Ion:173 Resp: 783

Ion Ratio Lower Upper

173 100

175 1136.4 24.7 74.1#

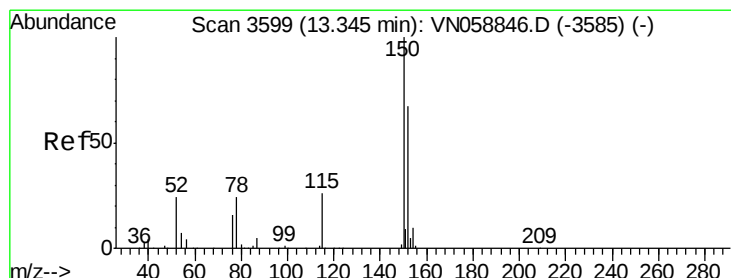
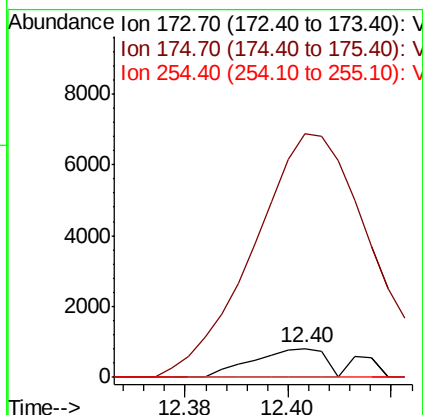
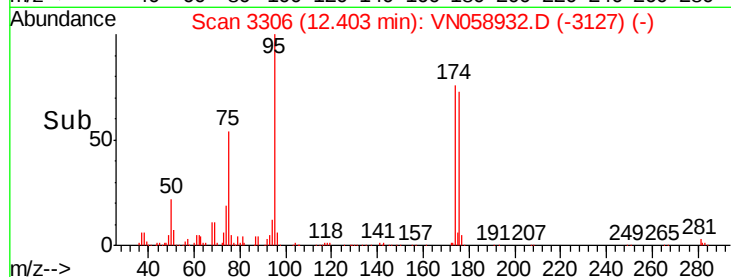
254 0.0 0.0 0.0



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: VN058932.D

Acq: 23 Oct 2019 16:08

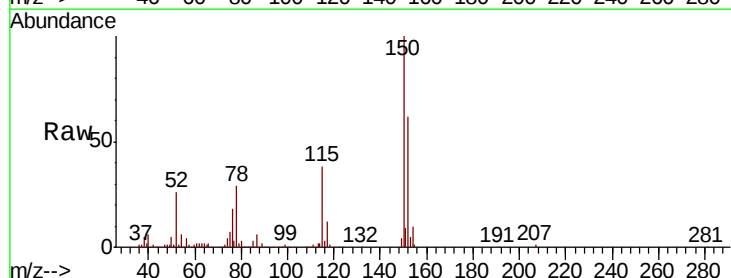
Tgt Ion:152 Resp: 166508

Ion Ratio Lower Upper

152 100

115 60.6 30.5 91.5

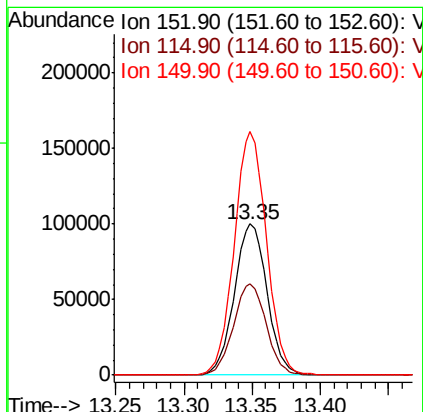
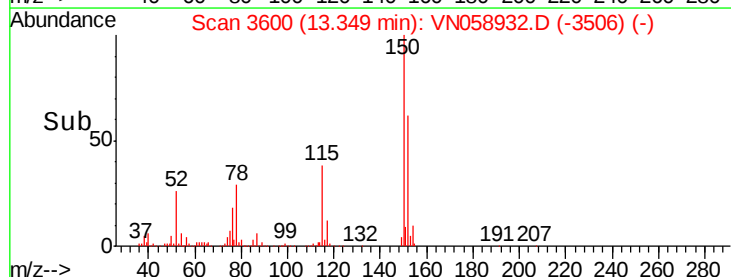
150 158.8 0.0 344.4

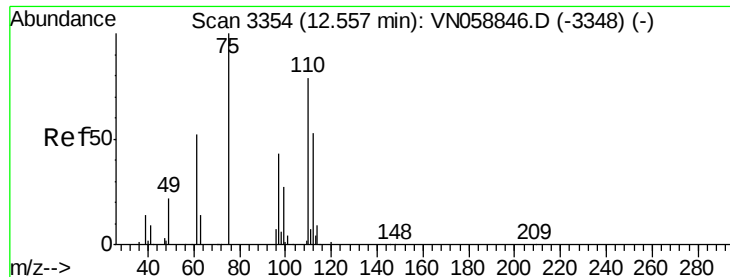


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.269 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058932.D

Acq: 23 Oct 2019 16:08

Instrument :

MSVOA_N

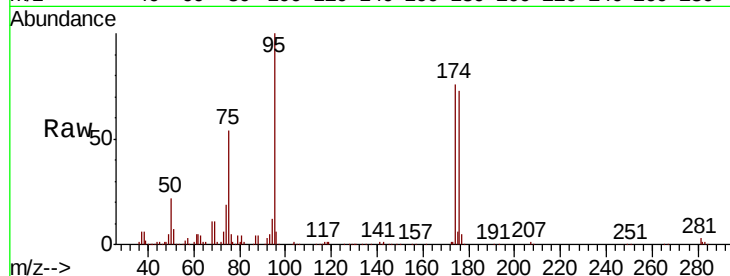
ClientSampleId :

Tot Ion: 75 Resp: 105231

Ion Ratio Lower Upper

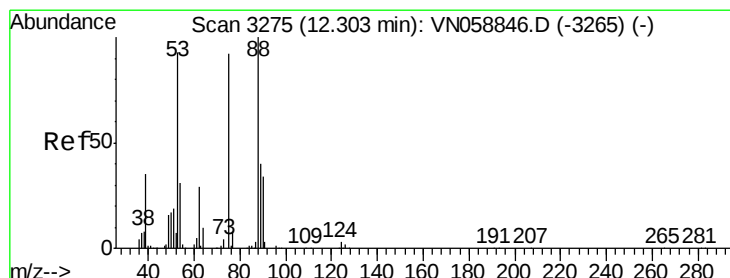
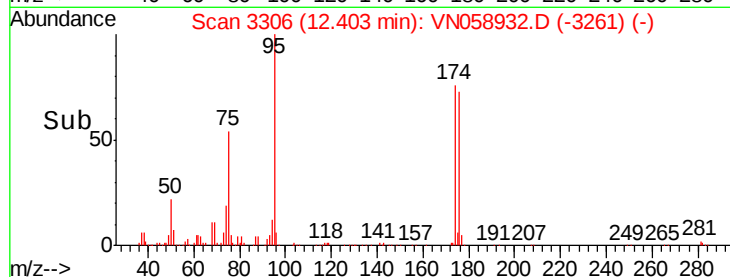
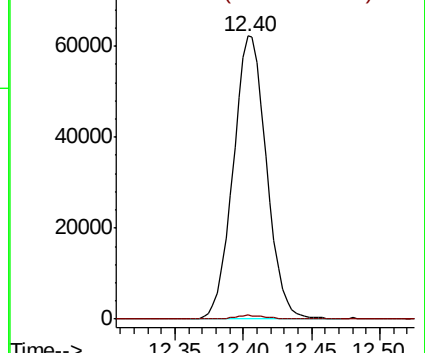
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 71.038 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058932.D

Acq: 23 Oct 2019 16:08

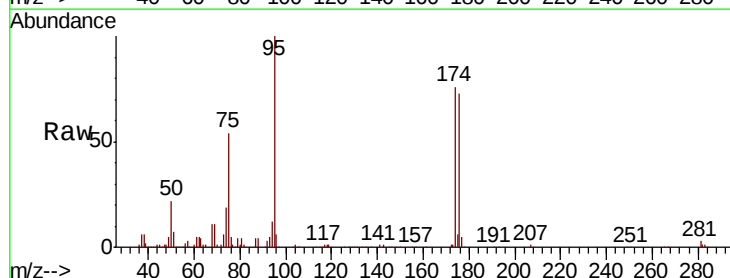
Tgt Ion: 75 Resp: 105231

Ion Ratio Lower Upper

75 100

53 0.1 78.6 118.0#

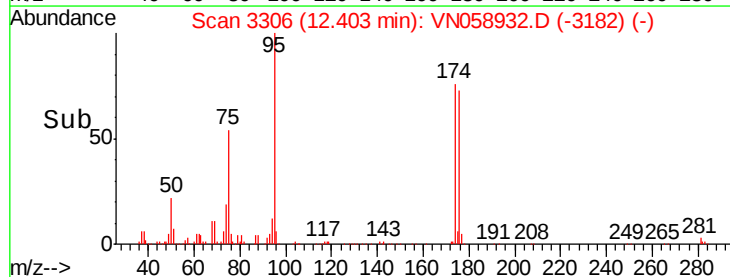
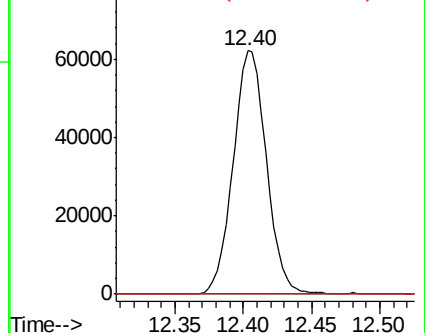
89 0.0 35.4 53.0#

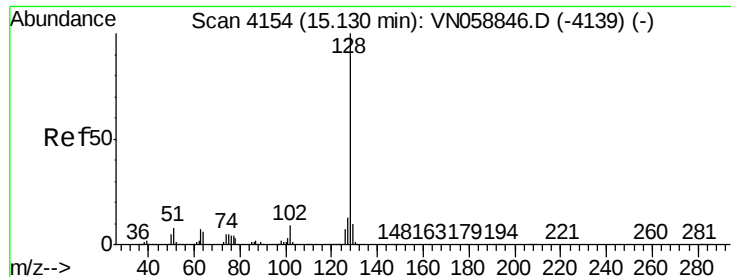


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 2.249 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

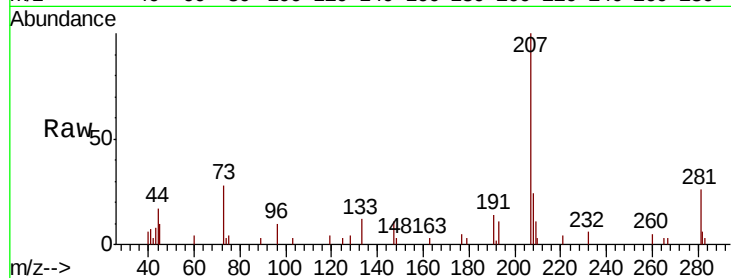
Lab File: VN058932.D

Acq: 23 Oct 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :



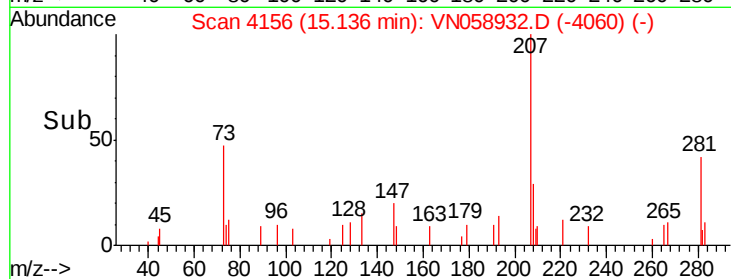
Tot Ion:128 Resp: 239

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

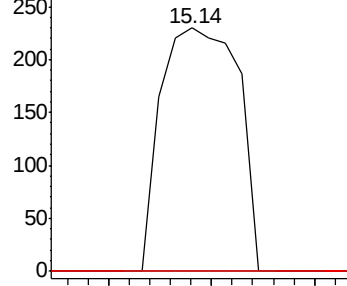
129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->