

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093019\
 Data File : VN058441.D
 Acq On : 30 Sep 2019 17:24
 Operator : JC/SP
 Sample : K5080-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 01 01:33:35 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	420400	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	690732	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	582295	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	221952	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	309510	50.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.76%	
35) Dibromofluoromethane	7.58	113	214512	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
50) Toluene-d8	10.09	98	859240	51.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.62%	
62) 4-Bromofluorobenzene	12.41	95	268711	44.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.62%	

Target Compounds

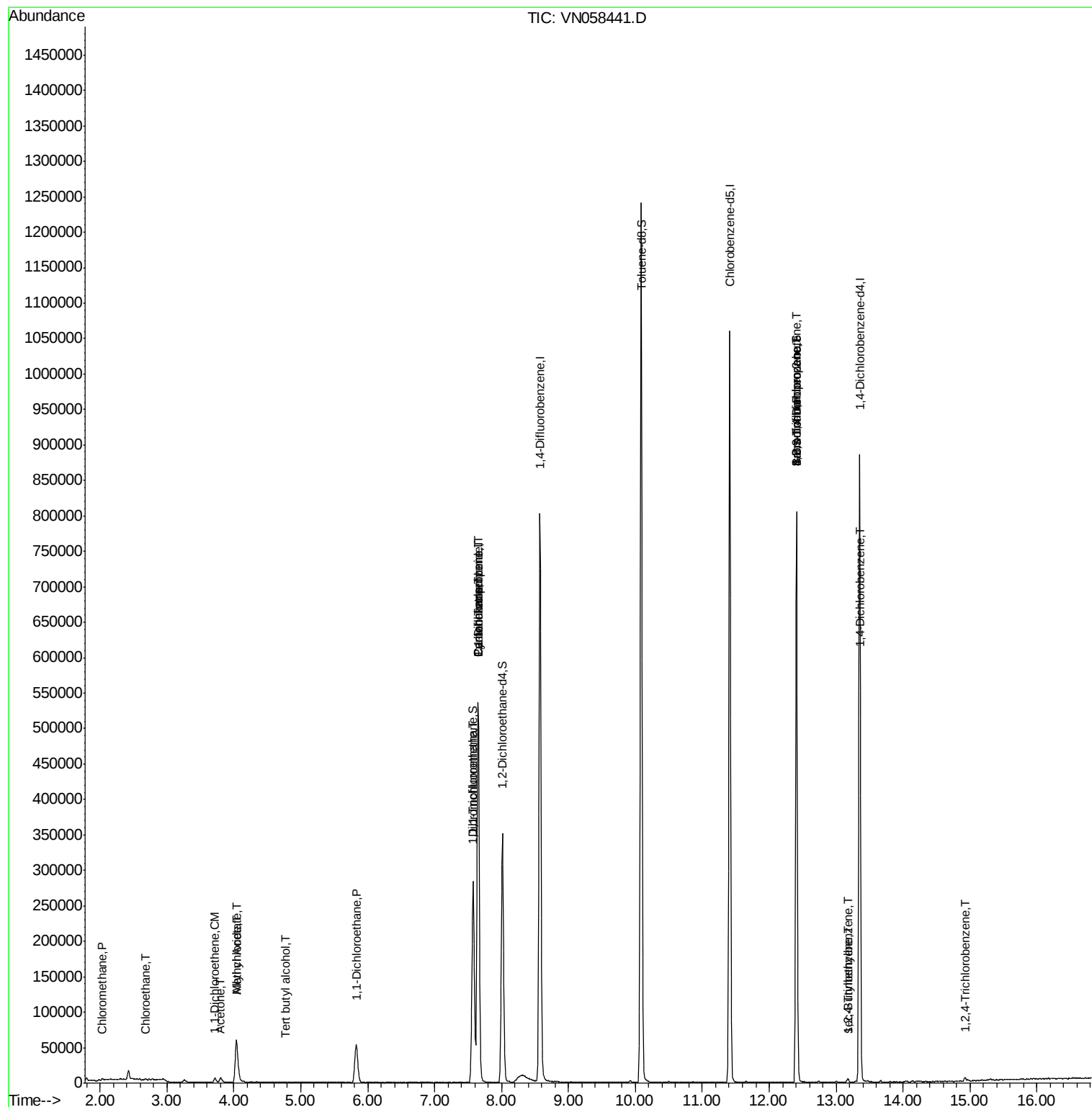
					Qvalue	
3) Chloromethane	2.03	50	1447	0.286	ug/l #	82
6) Chloroethane	2.69	64	1357	0.456	ug/l	89
11) Tert butyl alcohol	4.76	59	195	0.286	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	3117	0.786	ug/l	98
14) Allyl chloride	4.04	41	8253	1.144	ug/l #	52
16) Acetone	3.80	43	12430	5.935	ug/l	98
18) Methyl Acetate	4.03	43	25162	4.777	ug/l #	53
24) 1,1-Dichloroethane	5.83	63	82040	9.386	ug/l	99
31) Cyclohexane	7.65	56	10493	1.234	ug/l #	1
32) 1,1,1-Trichloroethane	7.56	97	1512	0.208	ug/l #	51
36) 1,1-Dichloropropene	7.65	75	36150	5.473	ug/l #	51
38) Carbon Tetrachloride	7.65	117	41859	7.021	ug/l #	16
71) Bromoform	12.41	173	2038	1.440	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	149544	36.888	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	149544	112.034	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.18	105	3651	0.265	ug/l #	32
85) sec-Butylbenzene	13.18	105	3651	0.239	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	4017	0.579	ug/l #	35
93) 1,2,4-Trichlorobenzene	14.92	180	1988	0.537	ug/l #	76
95) Naphthalene	15.14	128	224	Below Cal	#	70

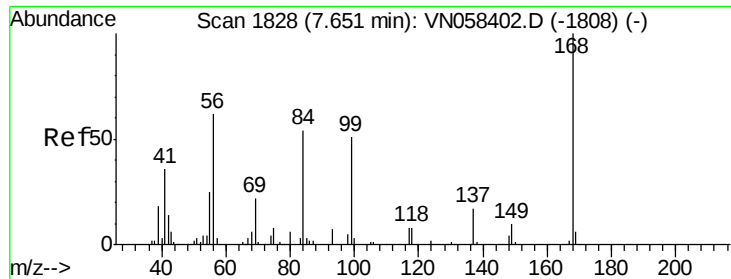
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 30 08:07:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058441.D

Acq: 30 Sep 2019 17:24

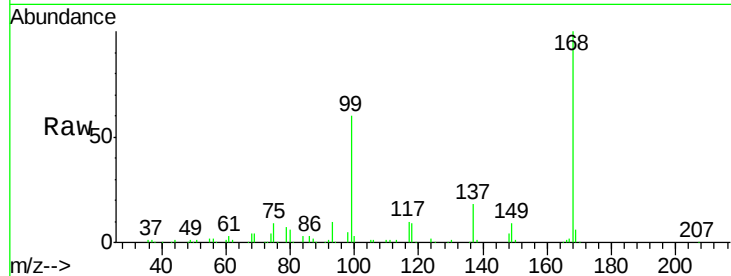
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 420400

Ion Ratio Lower Upper

168 100

99 60.0 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

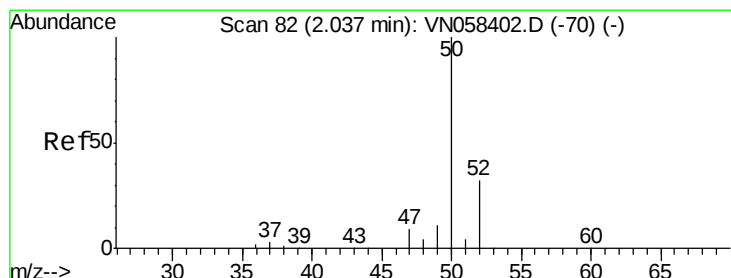
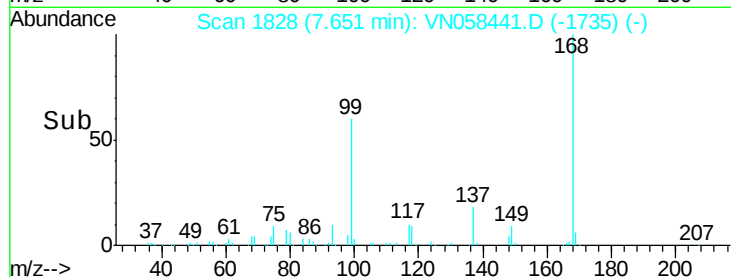
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.286 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058441.D

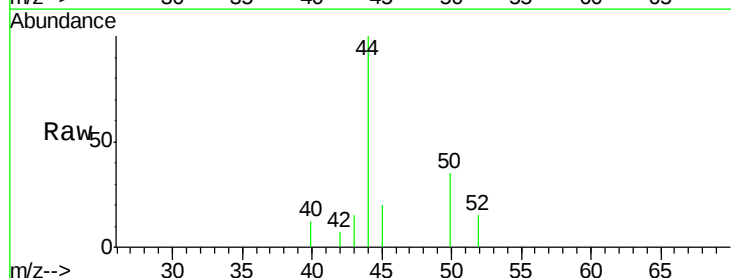
Acq: 30 Sep 2019 17:24

Tgt Ion: 50 Resp: 1447

Ion Ratio Lower Upper

50 100

52 42.5 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

1000

800

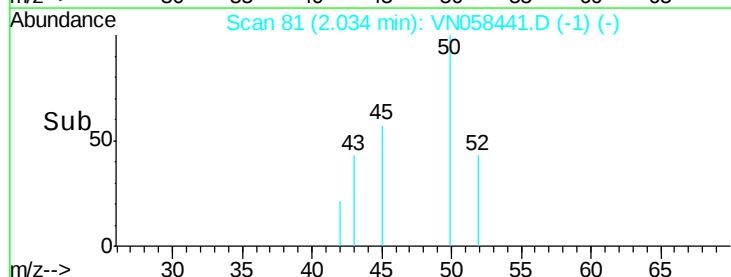
600

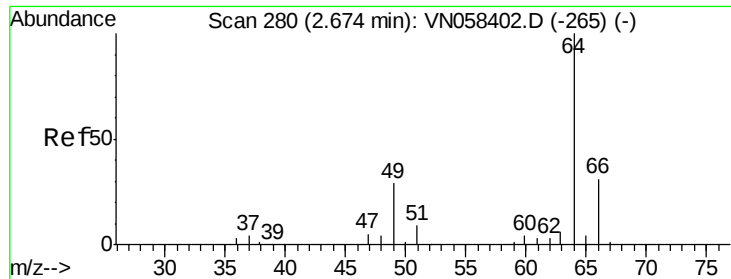
400

200

0

Time--> 2.00 2.02 2.04 2.06 2.08





#6

Chloroethane

Concen: 0.456 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.02 min

Lab File: VN058441.D

Acq: 30 Sep 2019 17:24

Instrument :

MSVOA_N

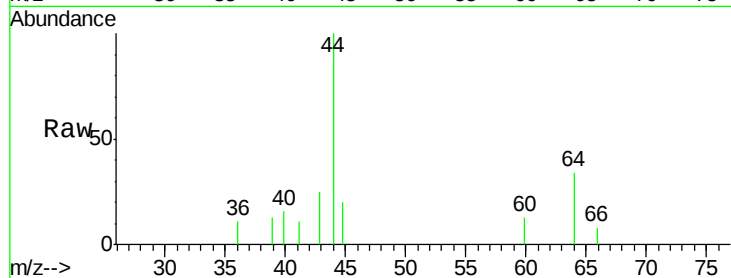
ClientSampled :

Tot Ion: 64 Resp: 1357

Ion Ratio Lower Upper

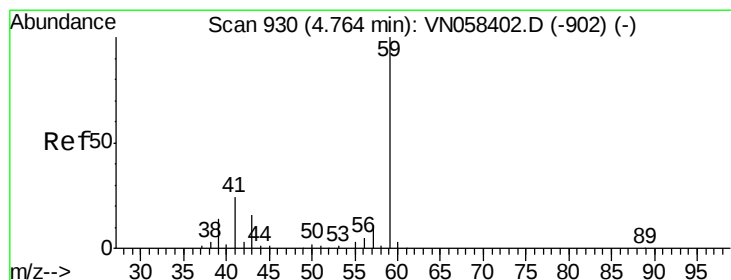
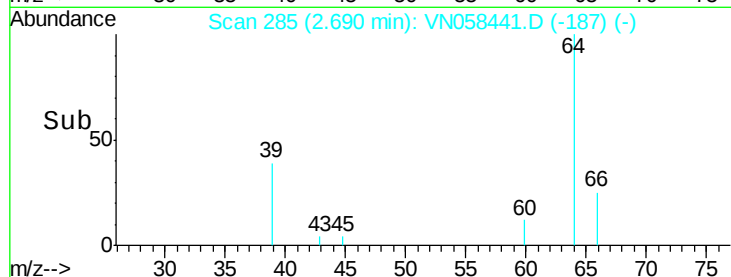
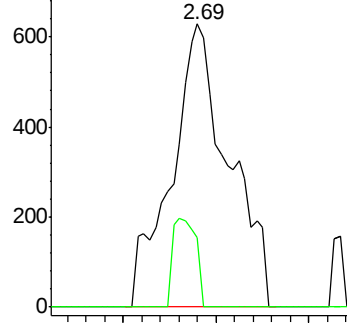
64 100

66 24.7 24.4 36.6



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#11

Tert butyl alcohol

Concen: 0.286 ug/l

RT: 4.76 min Scan# 930

Delta R.T. 0.00 min

Lab File: VN058441.D

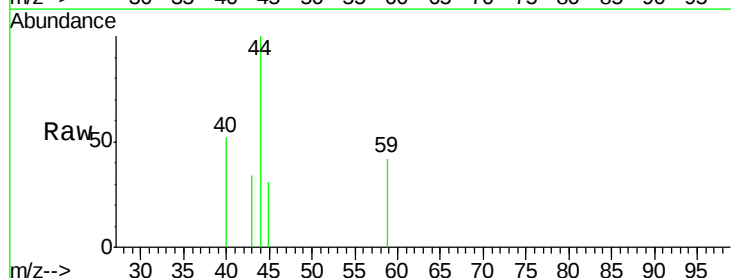
Acq: 30 Sep 2019 17:24

Tgt Ion: 59 Resp: 195

Ion Ratio Lower Upper

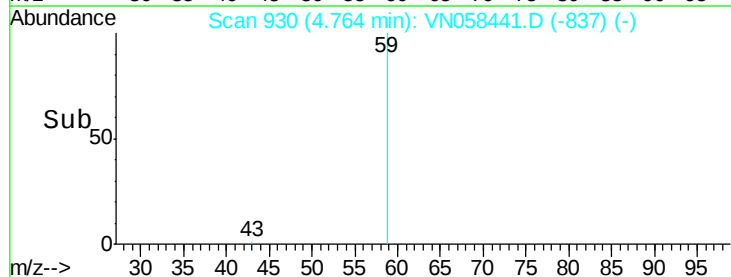
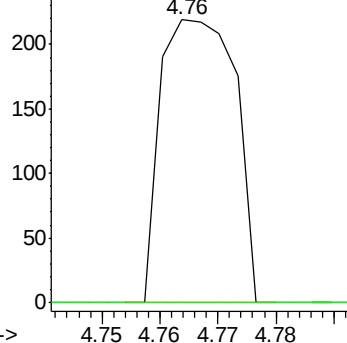
59 100

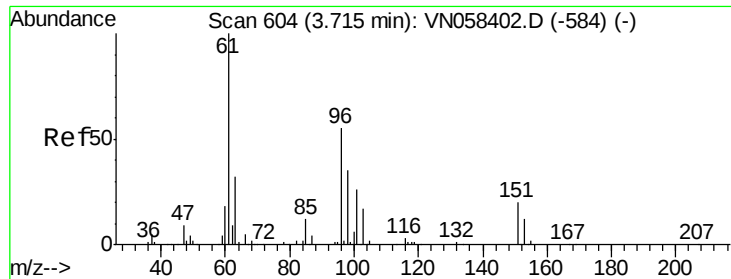
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

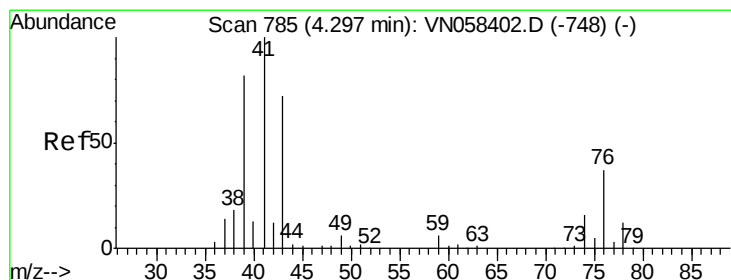
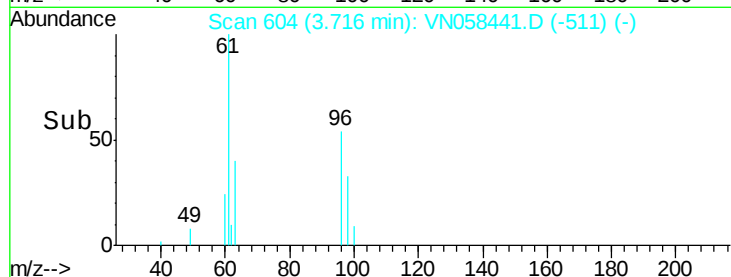
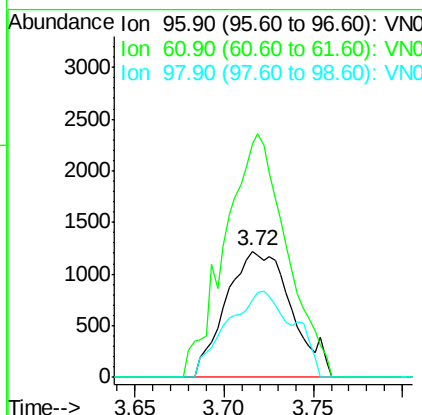
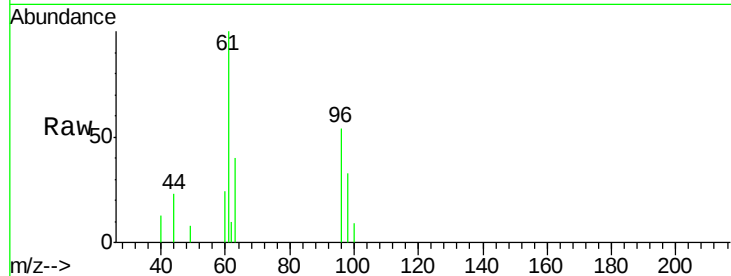




#12
 1,1-Dichloroethene
 Concen: 0.786 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN058441.D
 Acq: 30 Sep 2019 17:24

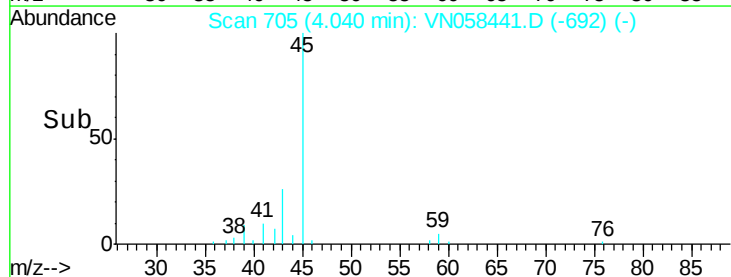
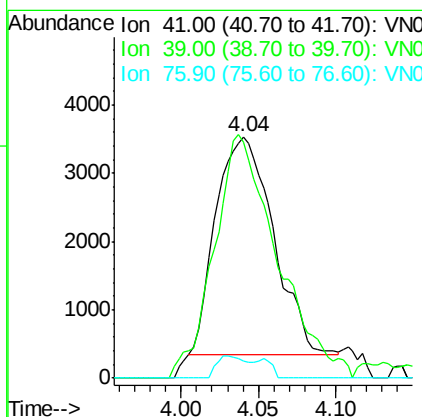
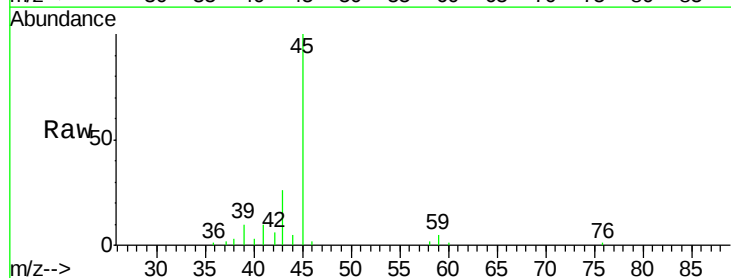
Instrument :
 MSVOA_N
 ClientSampleId :

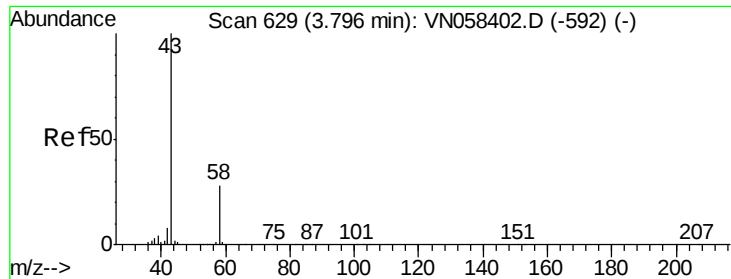
Tot Ion	Ratio	Lower	Upper
96	100		
61	185.4	146.7	220.1
98	61.1	51.3	76.9



#14
 Allyl chloride
 Concen: 1.144 ug/l
 RT: 4.04 min Scan# 705
 Delta R.T. -0.26 min
 Lab File: VN058441.D
 Acq: 30 Sep 2019 17:24

Tgt Ion	Ratio	Lower	Upper
41	100		
39	119.4	62.3	93.5#
76	5.5	26.9	40.3#





#16

Acetone

Concen: 5.935 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058441.D

Acq: 30 Sep 2019 17:24

Instrument :

MSVOA_N

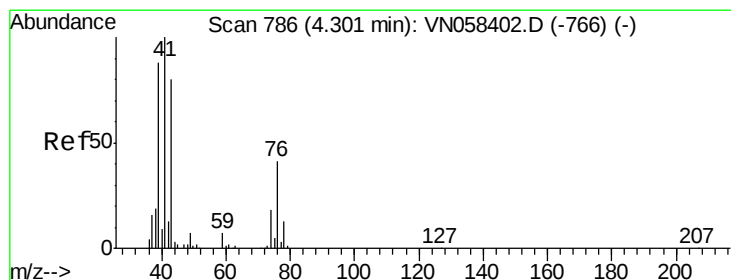
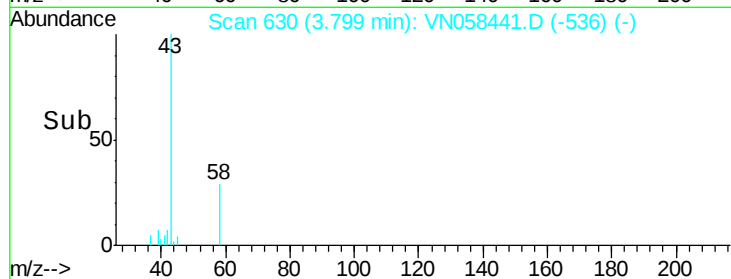
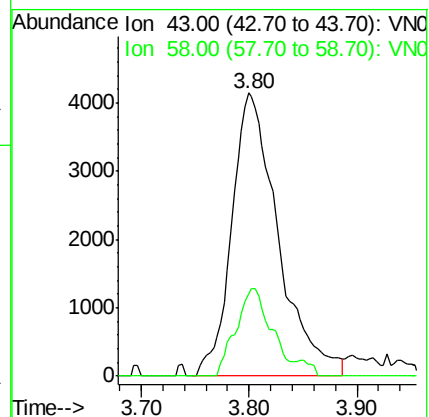
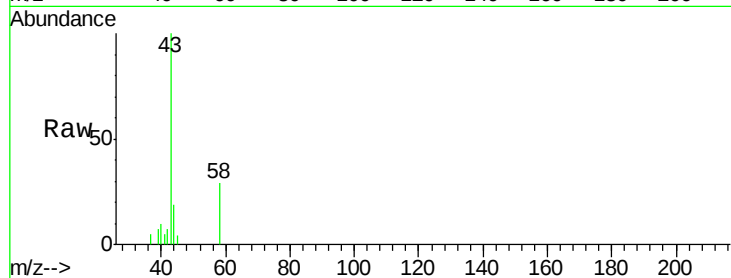
ClientSampleId :

Tot Ion: 43 Resp: 12430

Ion Ratio Lower Upper

43 100

58 29.0 22.4 33.6



#18

Methyl Acetate

Concen: 4.777 ug/l

RT: 4.03 min Scan# 703

Delta R.T. -0.27 min

Lab File: VN058441.D

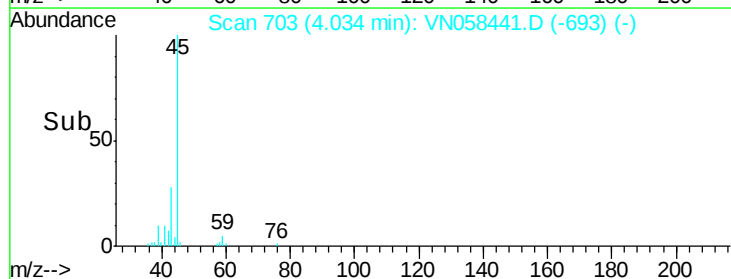
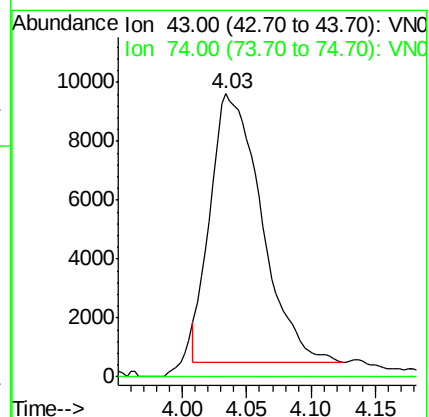
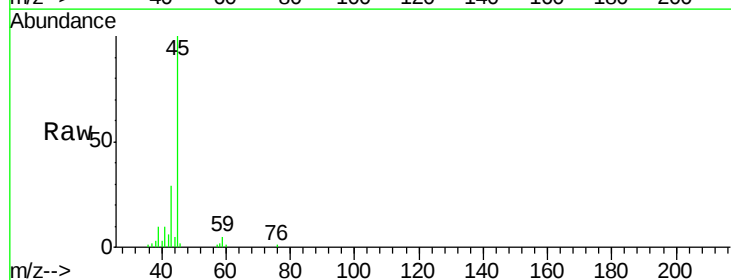
Acq: 30 Sep 2019 17:24

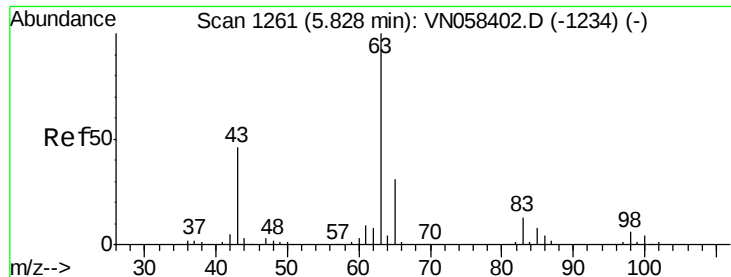
Tgt Ion: 43 Resp: 25162

Ion Ratio Lower Upper

43 100

74 0.0 18.0 27.0#

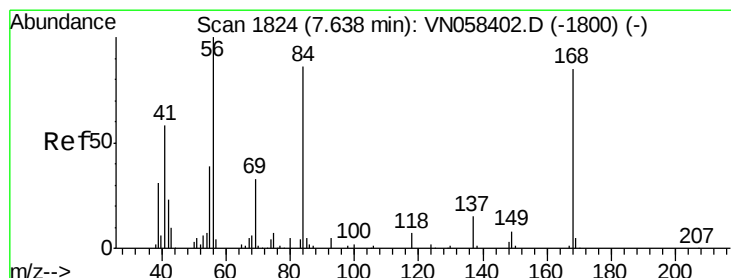
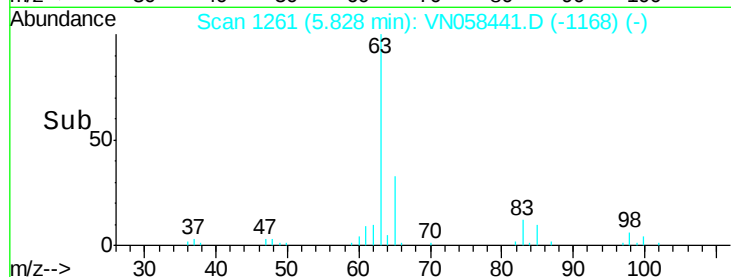
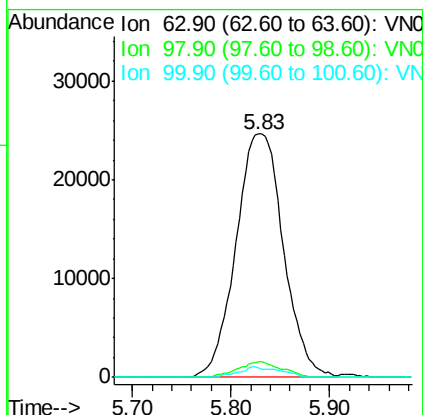
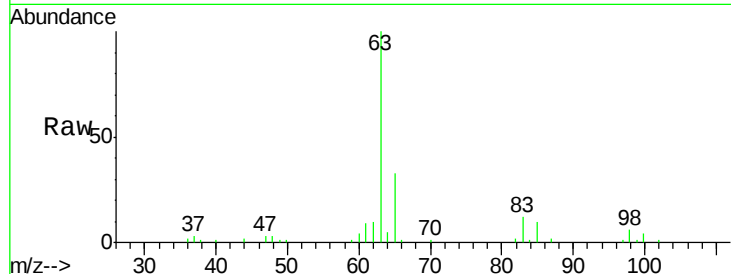




#24
 1,1-Dichloroethane
 Concen: 9.386 ug/l
 RT: 5.83 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VN058441.D
 Acq: 30 Sep 2019 17:24

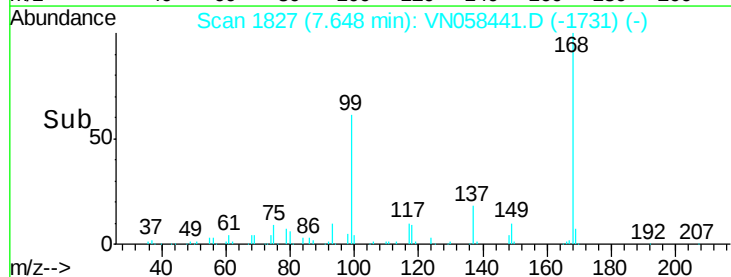
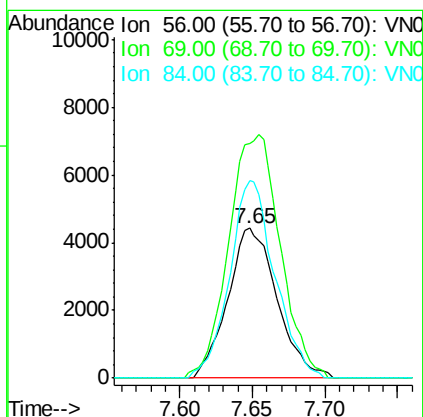
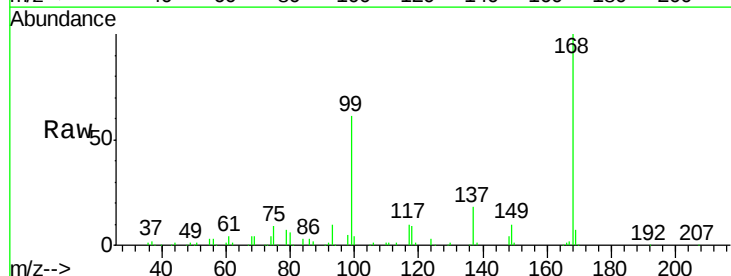
Instrument :
 MSVOA_N
 ClientSampleId :

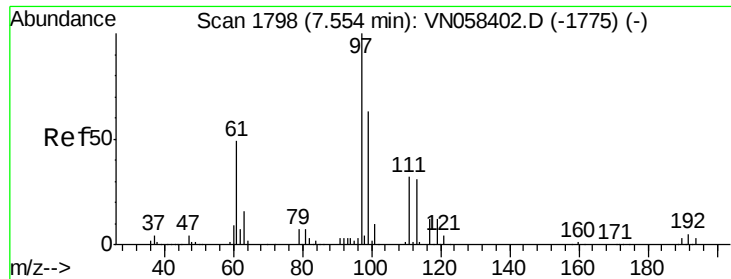
Tot Ion: 63 Resp: 82040
 Ion Ratio Lower Upper
 63 100
 98 6.3 3.0 9.0
 100 4.0 2.0 5.8



#31
 Cyclohexane
 Concen: 1.234 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VN058441.D
 Acq: 30 Sep 2019 17:24

Tgt Ion: 56 Resp: 10493
 Ion Ratio Lower Upper
 56 100
 69 156.9 26.2 39.4#
 84 131.4 67.6 101.4#





#32

1,1,1-Trichloroethane

Concen: 0.208 ug/l

RT: 7.56 min Scan# 1800

Delta R.T. 0.01 min

Lab File: VN058441.D

Acq: 30 Sep 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :

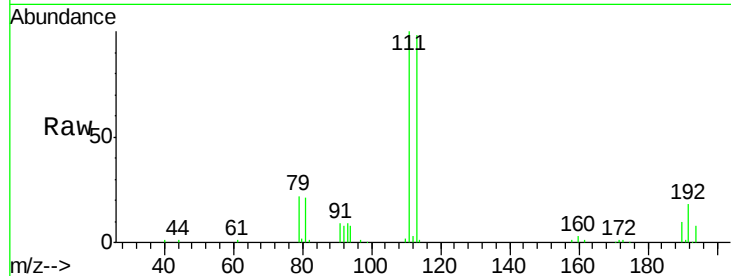
Tot Ion: 97 Resp: 1512

Ion Ratio Lower Upper

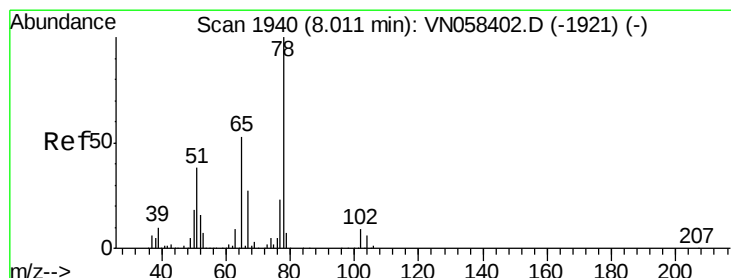
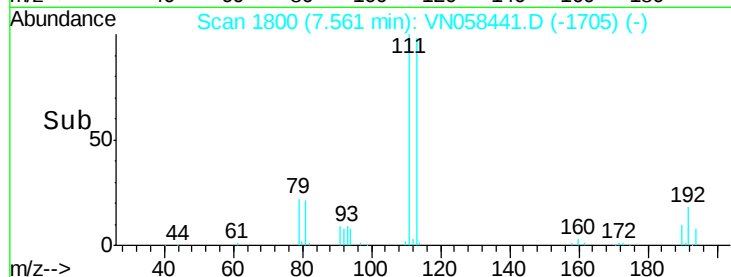
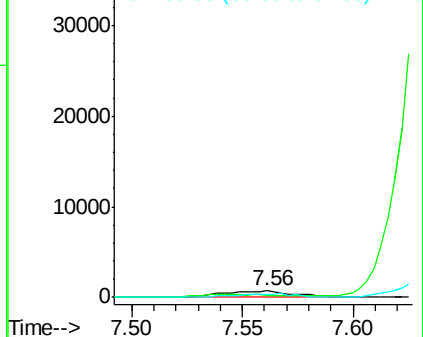
97 100

99 0.0 51.1 76.7#

61 44.8 39.2 58.8



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



#33

1,2-Dichloroethane-d4

Concen: 50.380 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058441.D

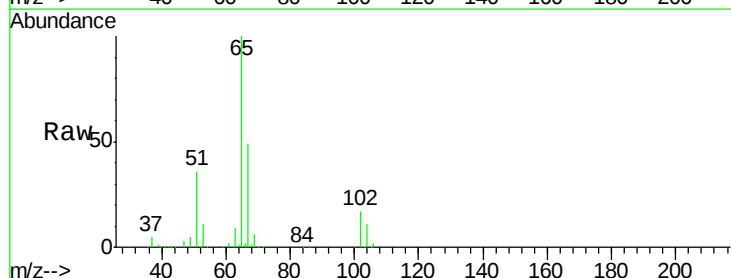
Acq: 30 Sep 2019 17:24

Tgt Ion: 65 Resp: 309510

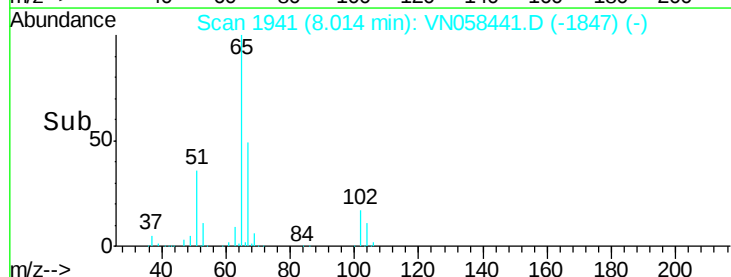
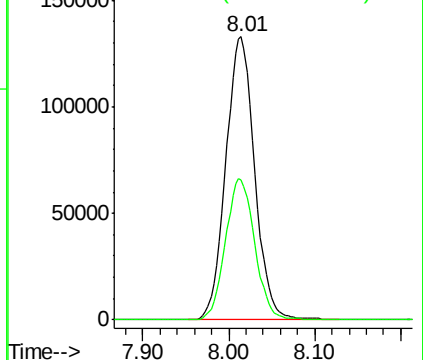
Ion Ratio Lower Upper

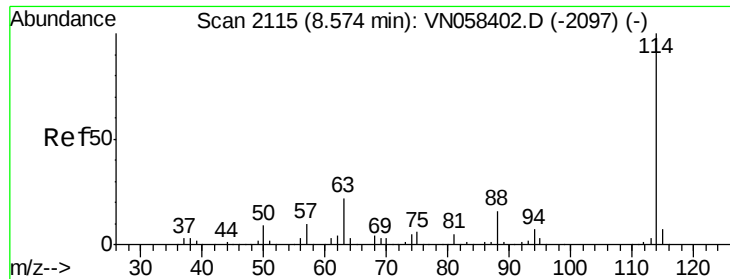
65 100

67 50.5 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058441.D

Acq: 30 Sep 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

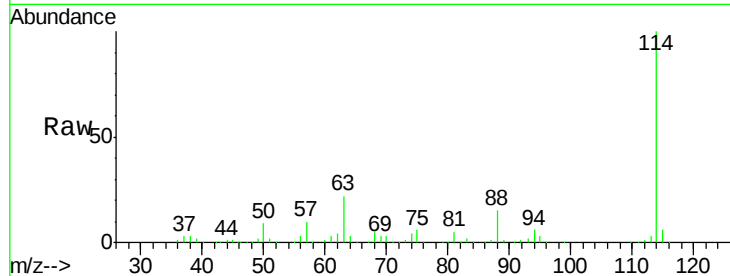
Tot Ion:114 Resp: 690732

Ion Ratio Lower Upper

114 100

63 22.4 0.0 45.0

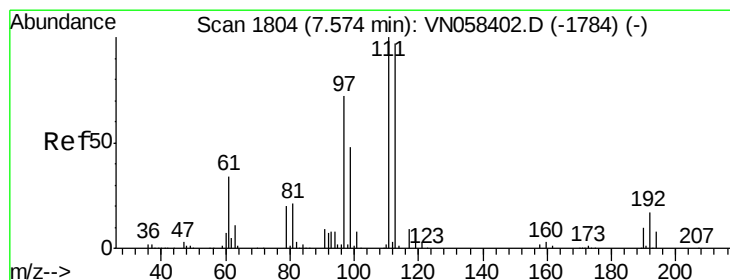
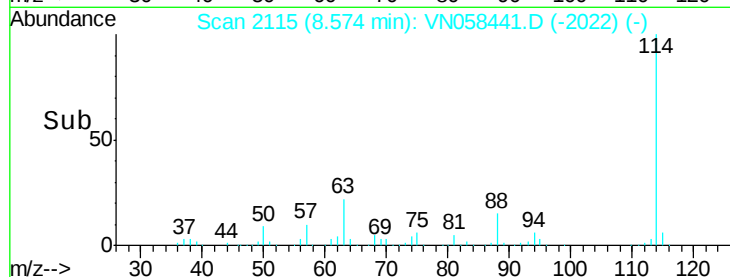
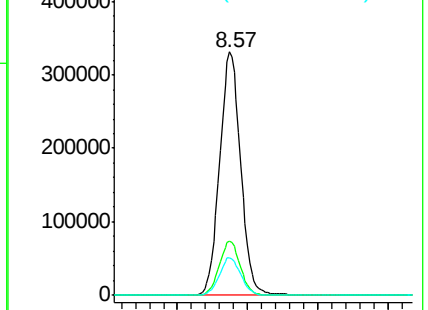
88 15.5 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.671 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN058441.D

Acq: 30 Sep 2019 17:24

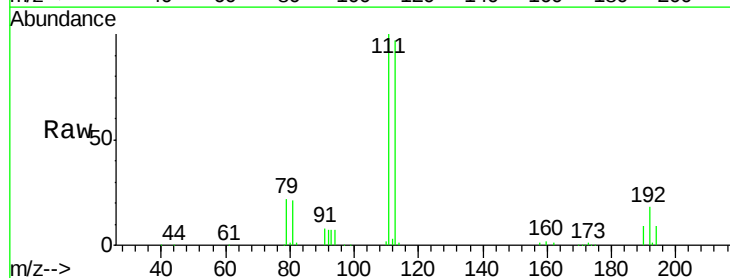
Tgt Ion:113 Resp: 214512

Ion Ratio Lower Upper

113 100

111 103.2 83.4 125.2

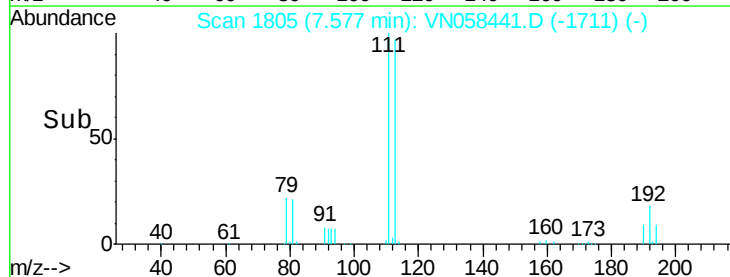
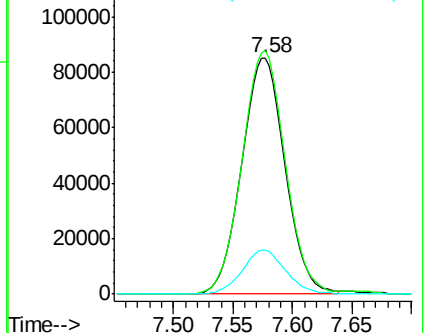
192 18.7 14.9 22.3

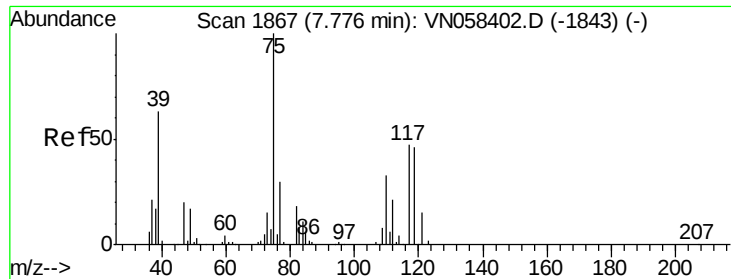


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

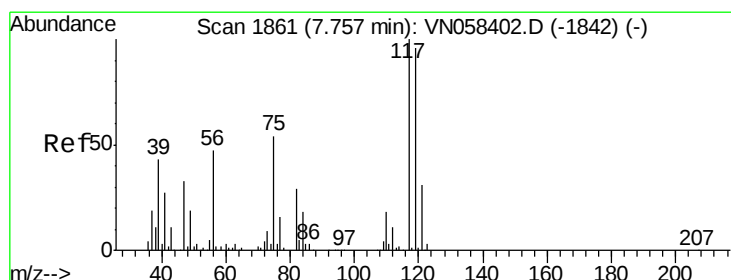
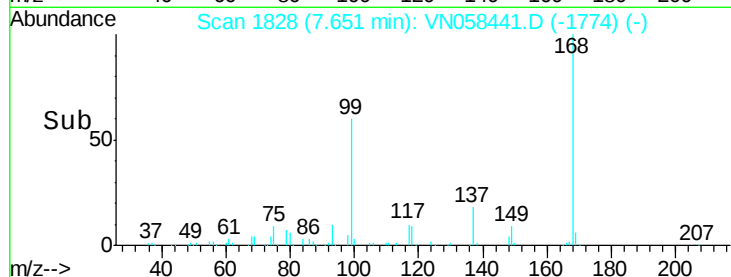
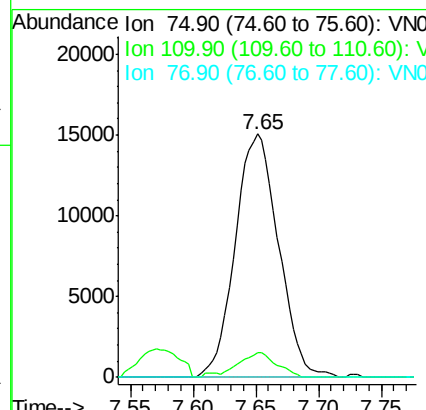
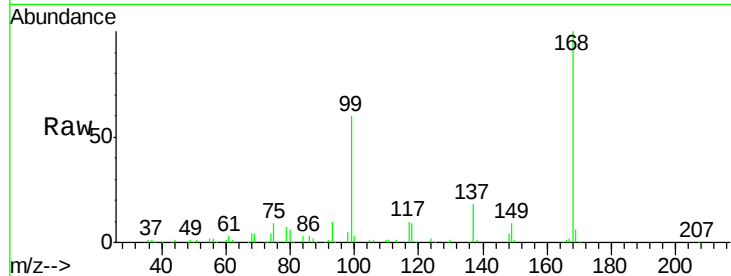




#36
 1,1-Dichloropropene
 Concen: 5.473 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058441.D
 Acq: 30 Sep 2019 17:24

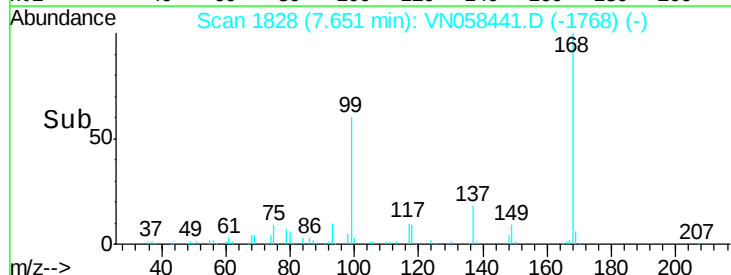
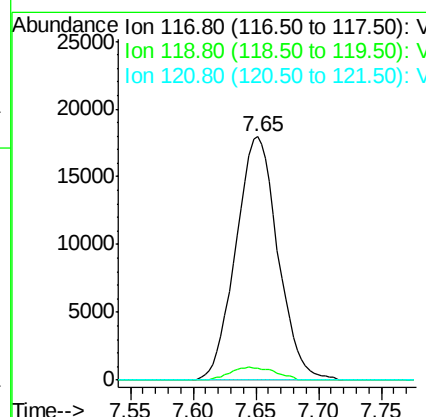
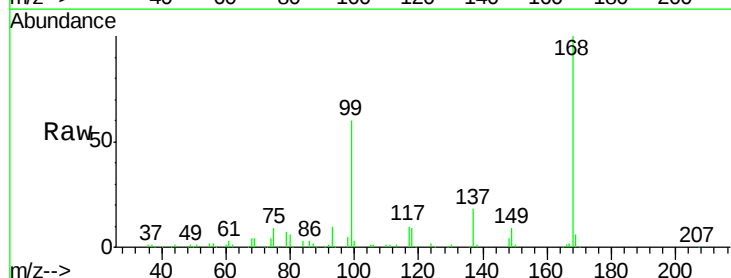
Instrument :
 MSVOA_N
 ClientSampled :

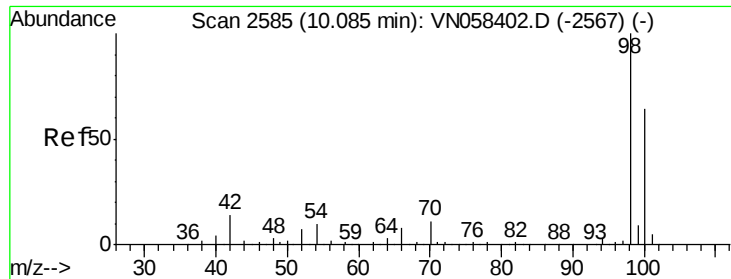
Tot Ion	75	Resp	36150
Ion Ratio	Lower	Upper	
75	100		
110	8.7	16.4	49.2#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 7.021 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058441.D
 Acq: 30 Sep 2019 17:24

Tgt Ion	117	Resp	41859
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	4.7	76.6	115.0#
121	0.0	24.7	37.1#





#50

Toluene-d8

Concen: 51.811 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058441.D

Acq: 30 Sep 2019 17:24

Instrument :

MSVOA_N

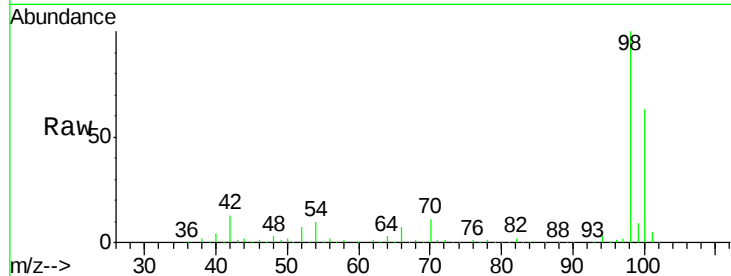
ClientSampleId :

Tot Ion: 98 Resp: 859240

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

10.09

500000

400000

300000

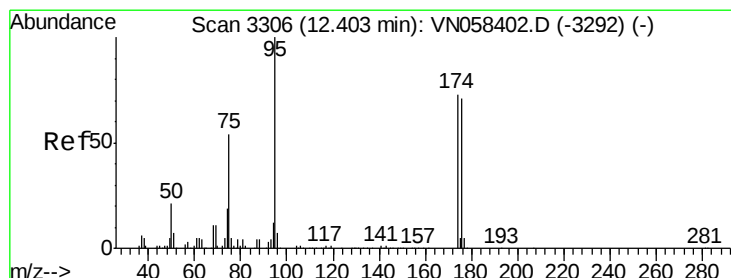
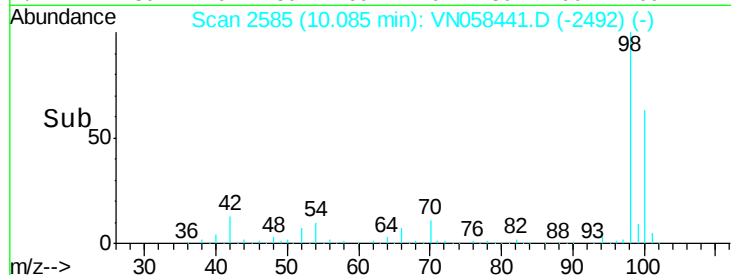
200000

100000

0

Time-->

10.00 10.10 10.20



#62

4-Bromofluorobenzene

Concen: 44.811 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058441.D

Acq: 30 Sep 2019 17:24

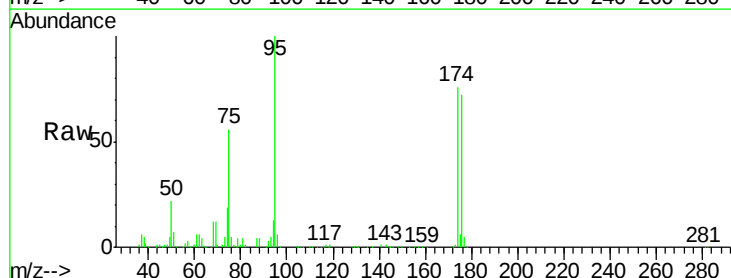
Tgt Ion: 95 Resp: 268711

Ion Ratio Lower Upper

95 100

174 74.8 0.0 150.6

176 72.5 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

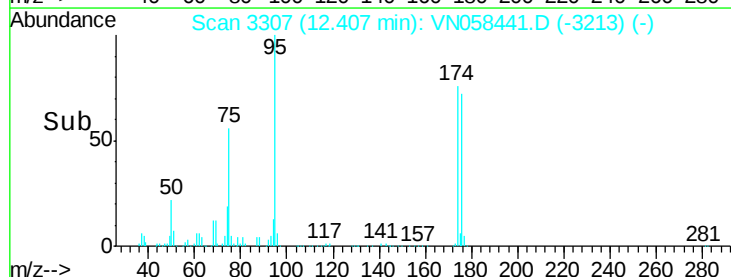
100000

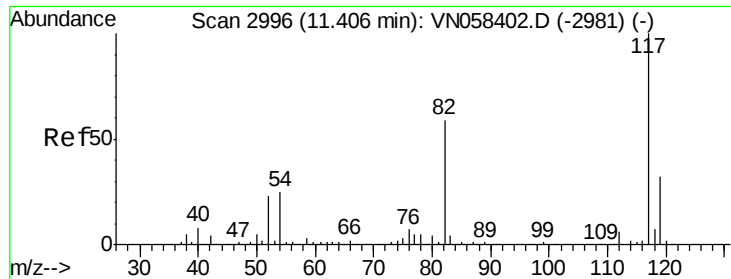
50000

0

Time-->

12.30 12.40 12.50

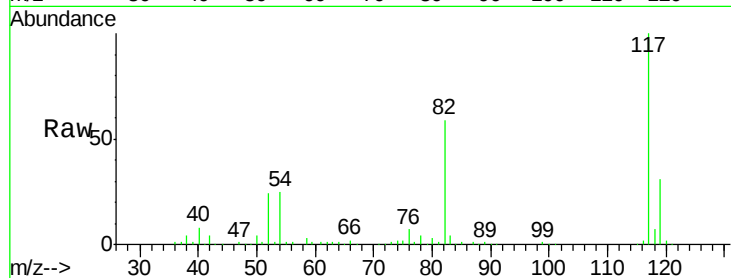




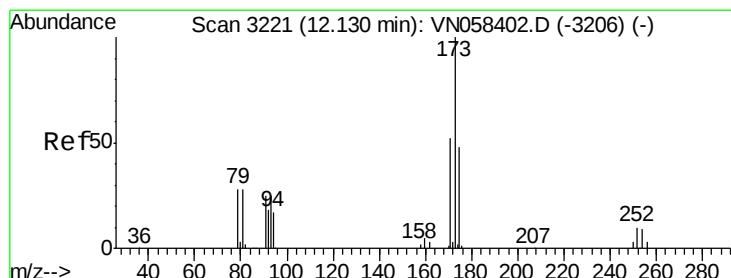
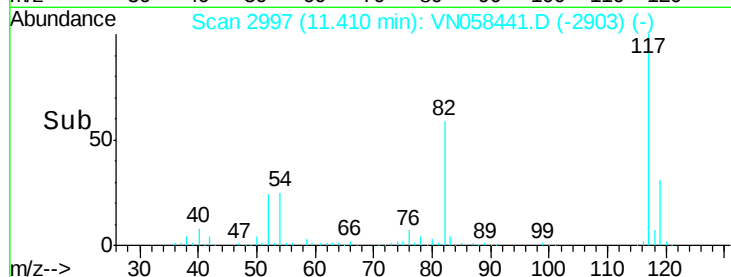
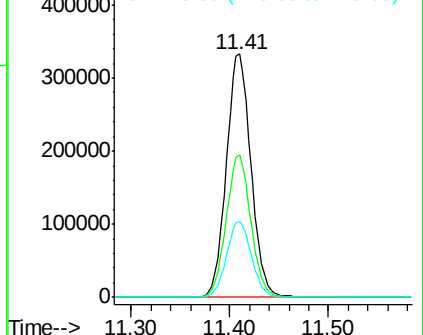
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058441.D
Acq: 30 Sep 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 582295
Ion Ratio Lower Upper
117 100
82 58.6 47.4 71.0
119 31.1 25.5 38.3

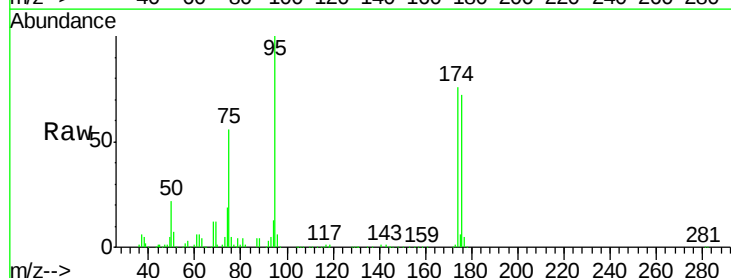


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

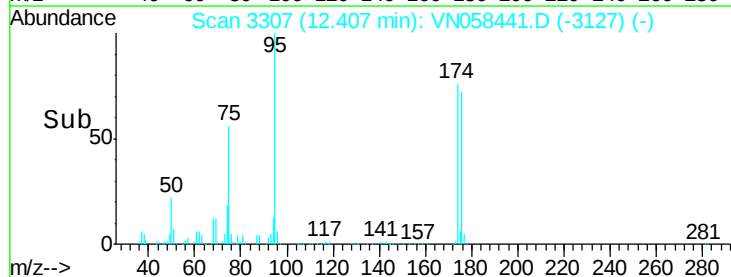
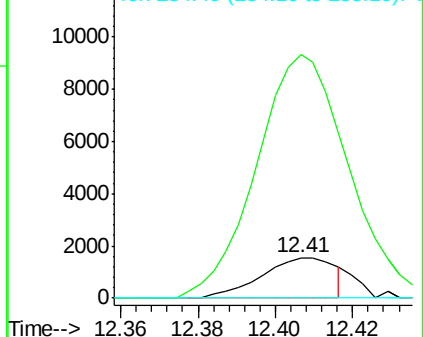


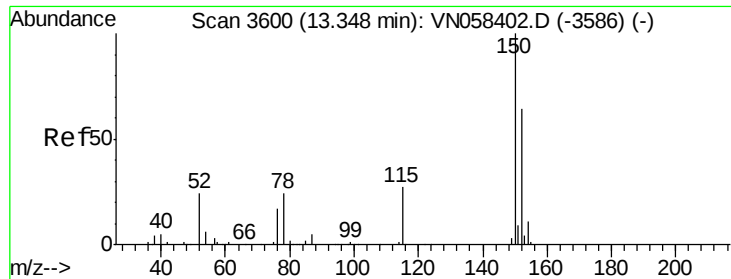
#71
Bromoform
Concen: 1.440 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN058441.D
Acq: 30 Sep 2019 17:24

Tgt Ion:173 Resp: 2038
Ion Ratio Lower Upper
173 100
175 626.6 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



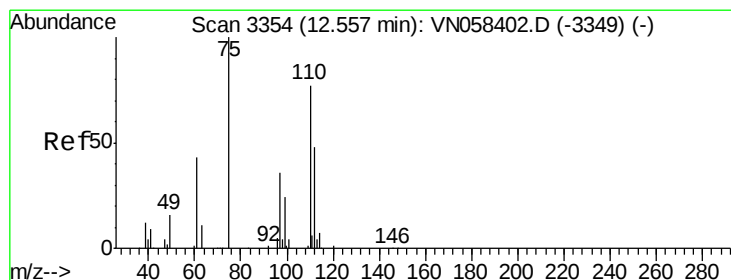
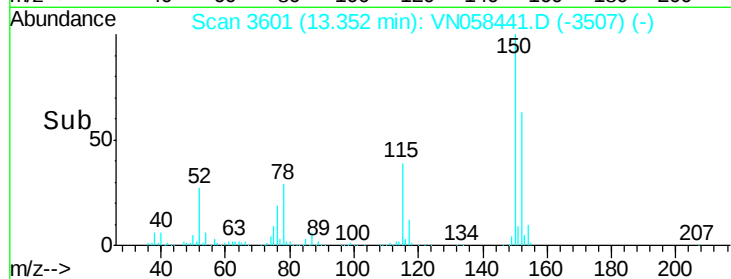
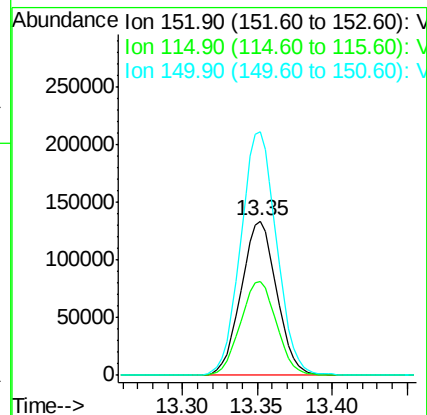
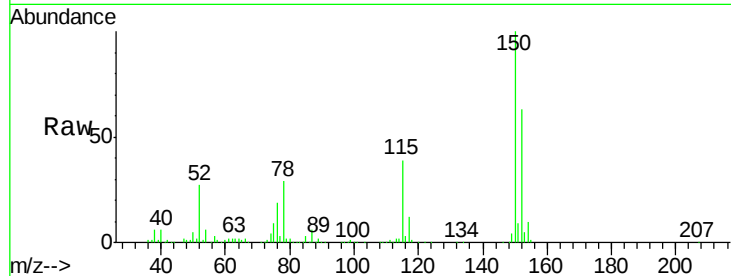


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN058441.D
Acq: 30 Sep 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :

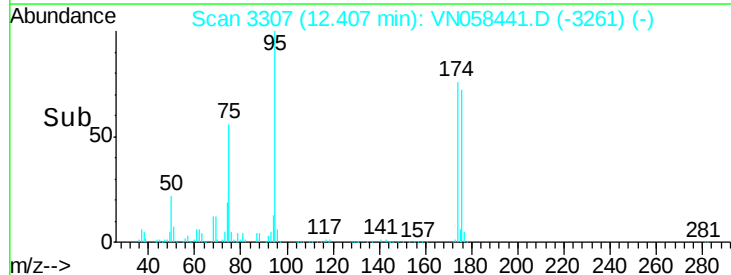
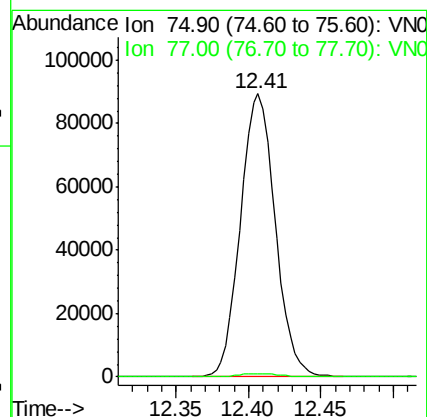
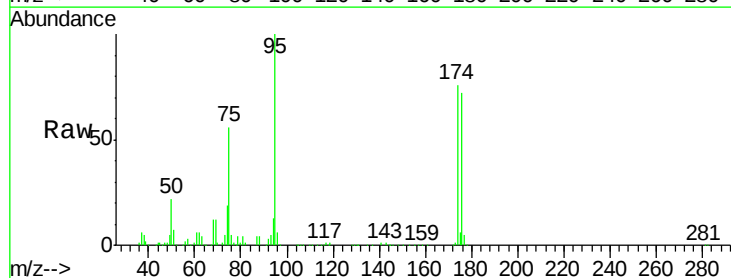
Tot Ion:152 Resp: 221952
Ion Ratio Lower Upper
152 100
115 61.8 30.0 90.0
150 159.7 0.0 348.2

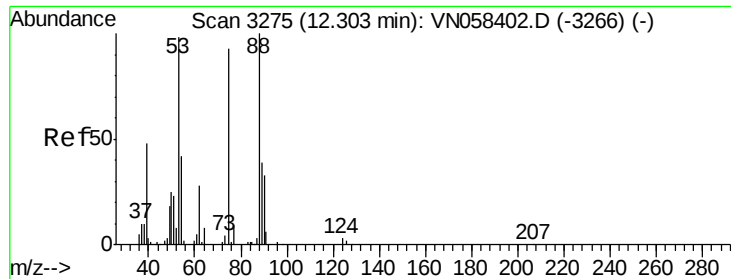


#76

1,2,3-Trichloropropane
Concen: 36.888 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. -0.15 min
Lab File: VN058441.D
Acq: 30 Sep 2019 17:24

Tgt Ion: 75 Resp: 149544
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 112.034 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058441.D

Acq: 30 Sep 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

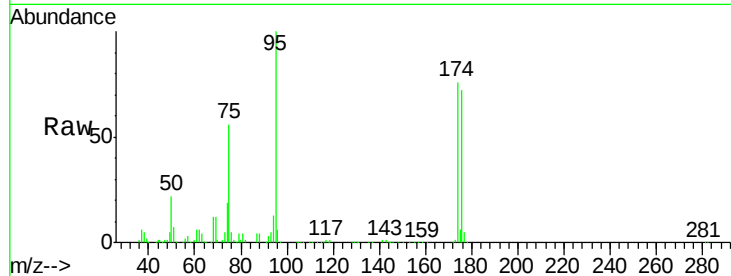
Tot Ion: 75 Resp: 149544

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

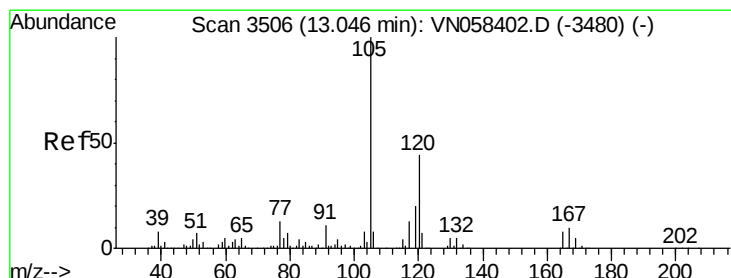
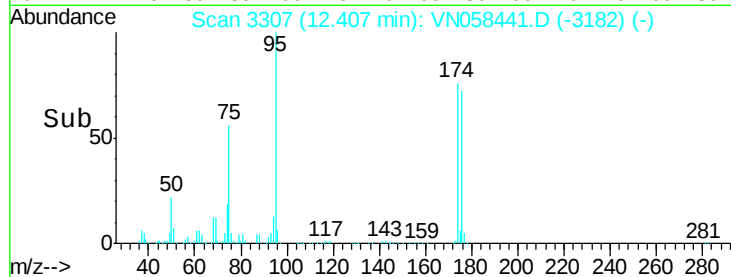
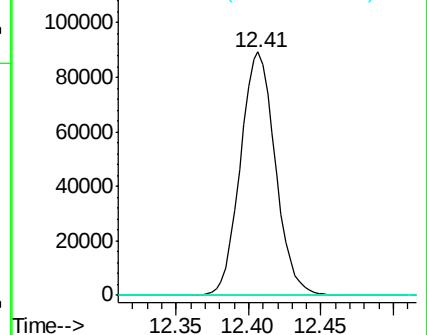
89 0.0 35.0 52.4#



Abundance Ion 74.90 (74.60 to 75.60): VN058441.D (-3307) (-)

Ion 53.00 (52.70 to 53.70): VN058441.D (-3307) (-)

Ion 88.90 (88.60 to 89.60): VN058441.D (-3307) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.265 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.13 min

Lab File: VN058441.D

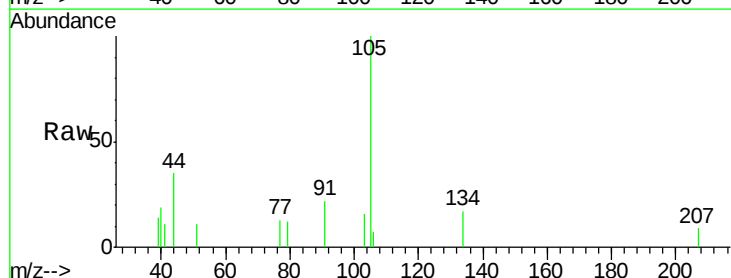
Acq: 30 Sep 2019 17:24

Tgt Ion: 105 Resp: 3651

Ion Ratio Lower Upper

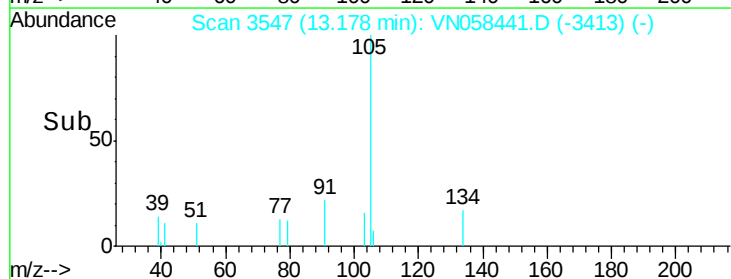
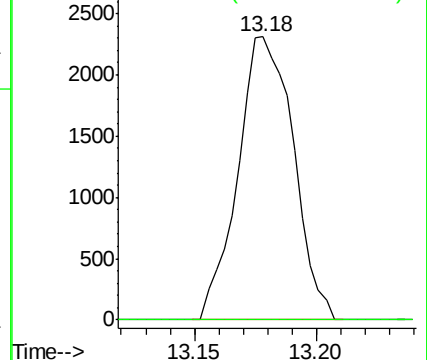
105 100

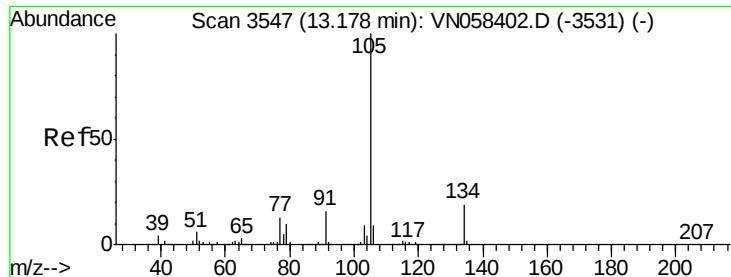
120 0.0 21.7 65.1#



Abundance Ion 105.00 (104.70 to 105.70): VN058441.D (-3506) (-)

Ion 120.00 (119.70 to 120.70): VN058441.D (-3506) (-)





#85

sec-Butylbenzene

Concen: 0.239 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058441.D

Acq: 30 Sep 2019 17:24

Instrument :

MSVOA_N

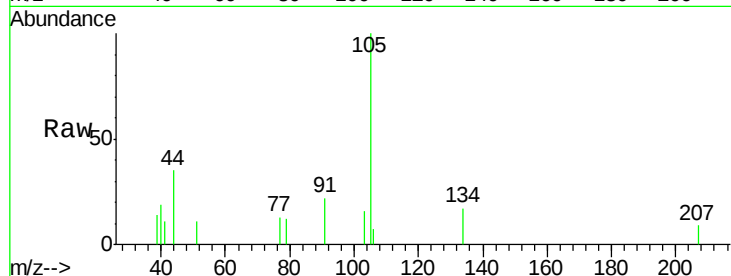
ClientSampled :

Tot Ion:105 Resp: 3651

Ion Ratio Lower Upper

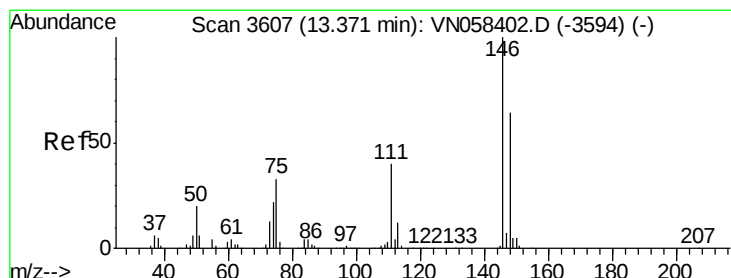
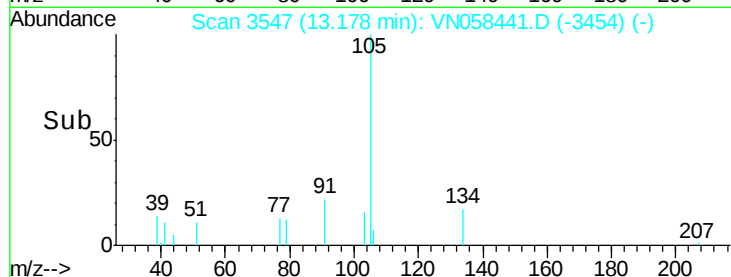
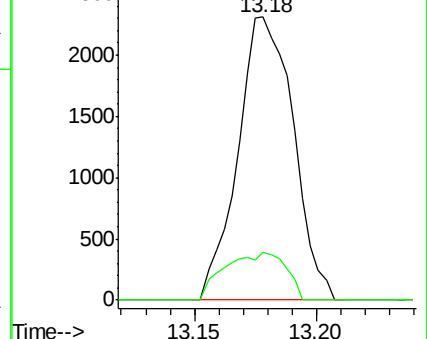
105 100

134 18.5 9.4 28.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#88

1,4-Dichlorobenzene

Concen: 0.579 ug/l

RT: 13.37 min Scan# 3607

Delta R.T. 0.00 min

Lab File: VN058441.D

Acq: 30 Sep 2019 17:24

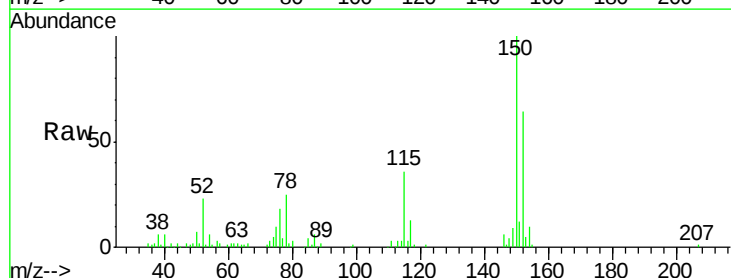
Tgt Ion:146 Resp: 4017

Ion Ratio Lower Upper

146 100

111 117.8 20.5 61.6#

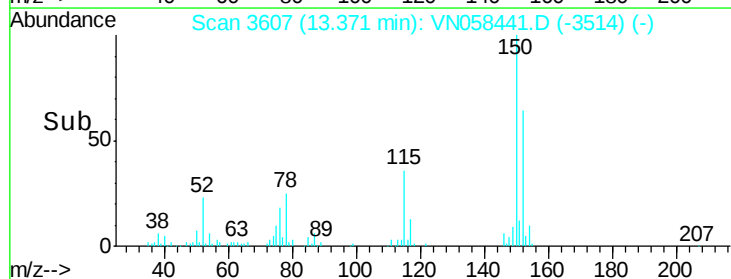
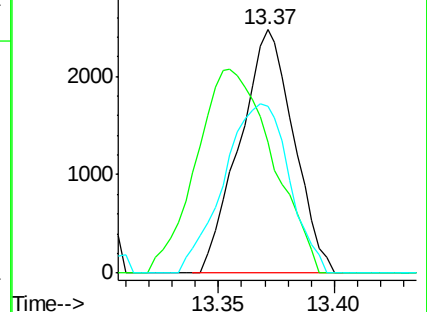
148 84.1 31.5 94.5

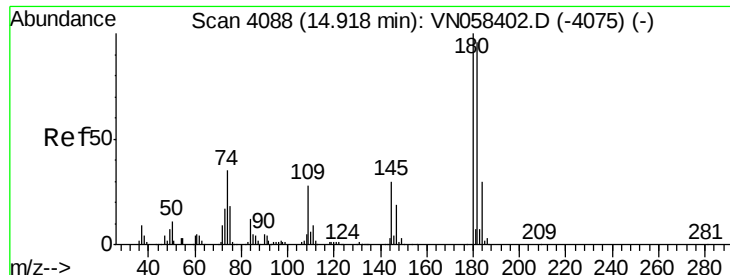


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

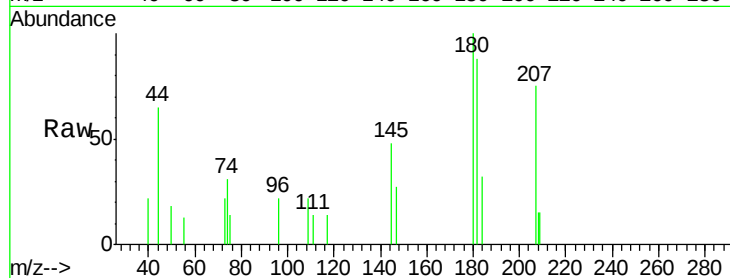




#93
 1,2,4-Trichlorobenzene
 Concen: 0.537 ug/l
 RT: 14.92 min Scan# 4090
 Delta R.T. 0.01 min
 Lab File: VN058441.D
 Acq: 30 Sep 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 1988
 Ion Ratio Lower Upper
 180 100
 182 106.4 47.4 142.3
 145 64.2 15.3 45.9#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

