

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103119\
 Data File : VN059044.D
 Acq On : 31 Oct 2019 17:05
 Operator : JC/SP
 Sample : K5626-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 01 01:13:16 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	418813	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	660853	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	585250	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	210770	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	301587	49.10	ug/l	0.00
Spiked Amount						
			Recovery	=	98.20%	
35) Dibromofluoromethane	7.57	113	223415	51.42	ug/l	0.00
Spiked Amount						
			Recovery	=	102.84%	
50) Toluene-d8	10.08	98	838629	49.72	ug/l	0.00
Spiked Amount						
			Recovery	=	99.44%	
62) 4-Bromofluorobenzene	12.41	95	264959	42.78	ug/l	0.00
Spiked Amount						
			Recovery	=	85.56%	

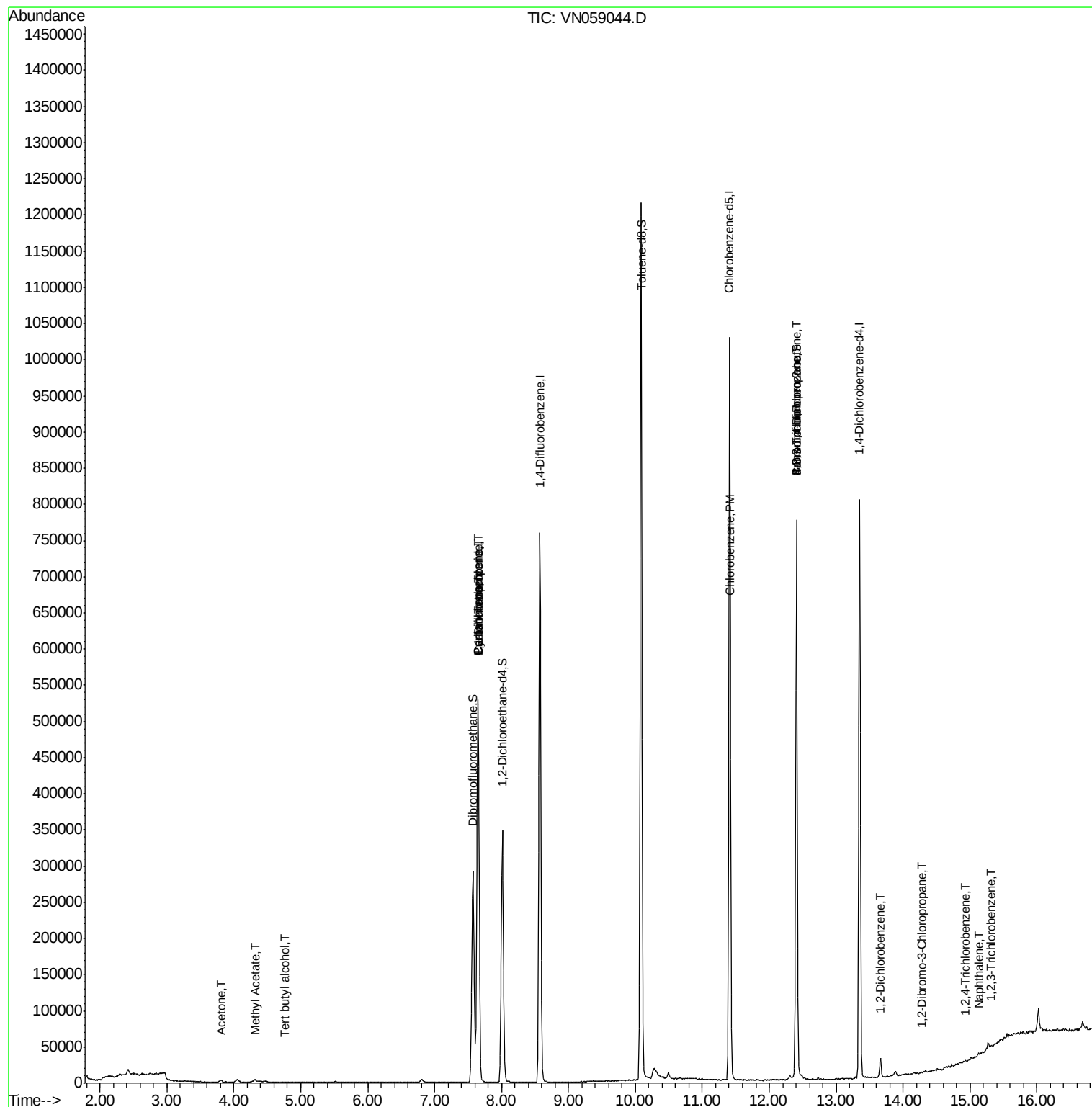
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	325	0.319	ug/l #	72
16) Acetone	3.81	43	4400	1.450	ug/l	97
18) Methyl Acetate	4.32	43	6480	0.939	ug/l #	82
31) Cyclohexane	7.65	56	9022	1.022	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	34382	5.082	ug/l #	45
38) Carbon Tetrachloride	7.65	117	40699	5.839	ug/l #	17
65) Chlorobenzene	11.43	112	2439	0.205	ug/l #	83
71) Bromoform	12.40	173	1551	0.445	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	138403	28.333	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	138403	73.810	ug/l #	10
91) 1,2-Dichlorobenzene	13.66	146	10992	1.647	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.26	75	252	0.206	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	30	2.527	ug/l #	13
95) Naphthalene	15.13	128	68	2.231	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.31	180	65	2.410	ug/l #	85

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

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QLast Update : Sat Oct 19 00:16:20 2019
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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: VN059044.D

Acq: 31 Oct 2019 17:05

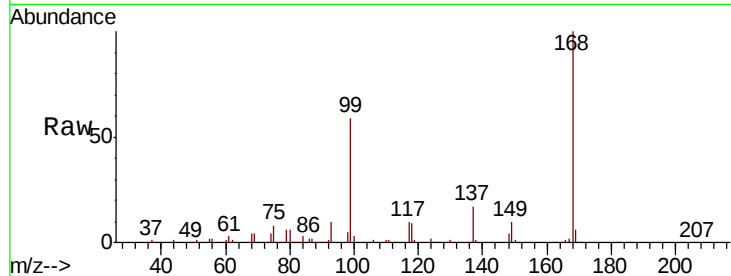
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 418813

Ion Ratio Lower Upper

168 100

99 58.6 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

150000

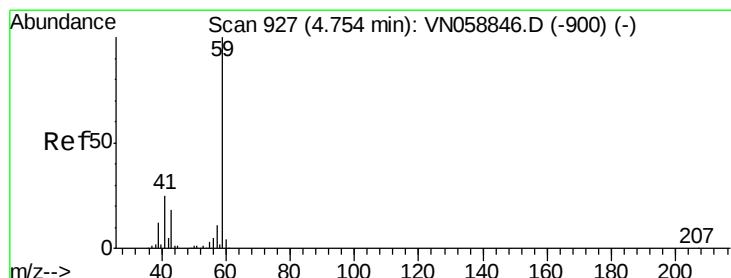
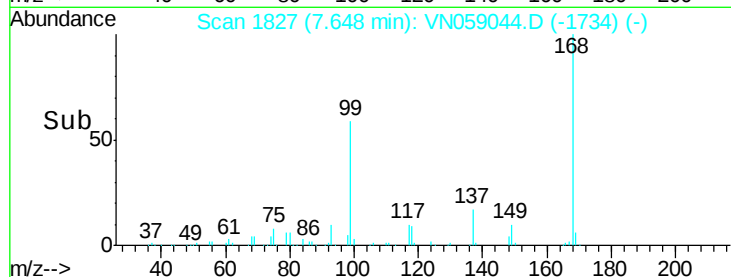
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.319 ug/l

RT: 4.75 min Scan# 927

Delta R.T. 0.00 min

Lab File: VN059044.D

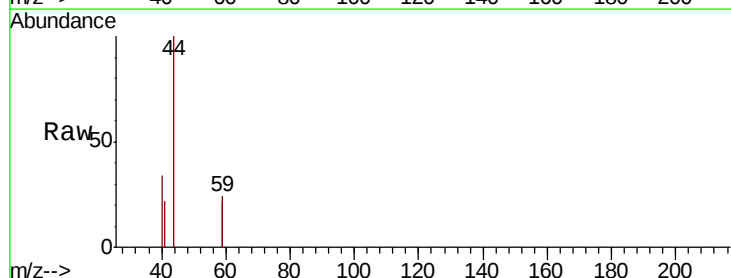
Acq: 31 Oct 2019 17:05

Tgt Ion: 59 Resp: 325

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.75

400

300

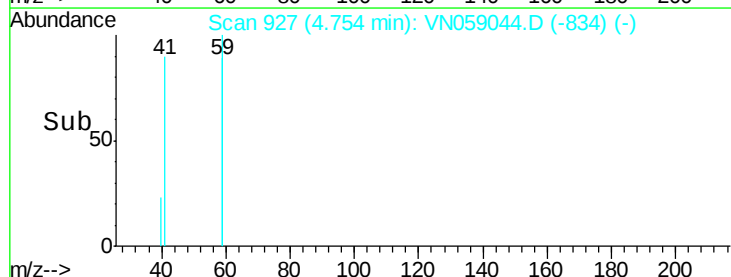
200

100

0

4.73 4.74 4.75 4.76

Time-->





#16

Acetone

Concen: 1.450 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.02 min

Lab File: VN059044.D

Acq: 31 Oct 2019 17:05

Instrument :

MSVOA_N

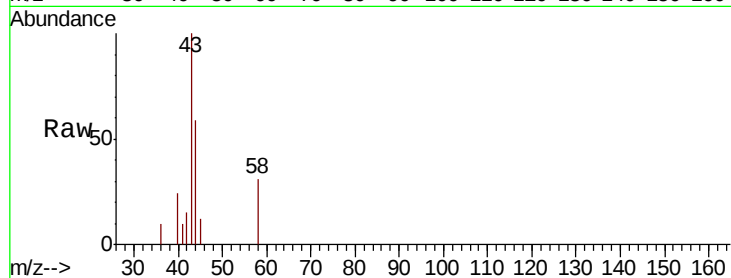
ClientSampled :

Tot Ion: 43 Resp: 4400

Ion Ratio Lower Upper

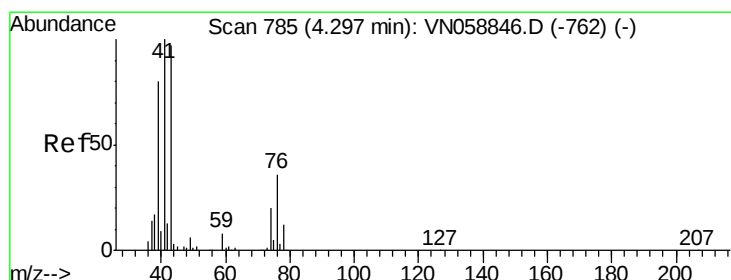
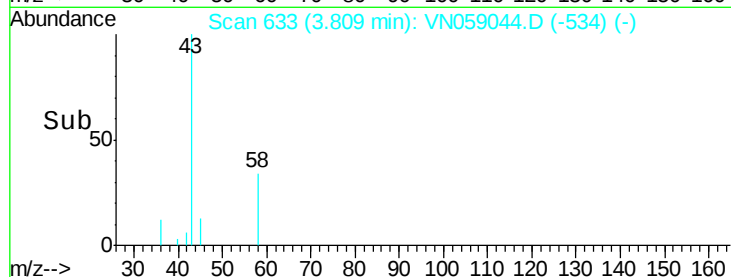
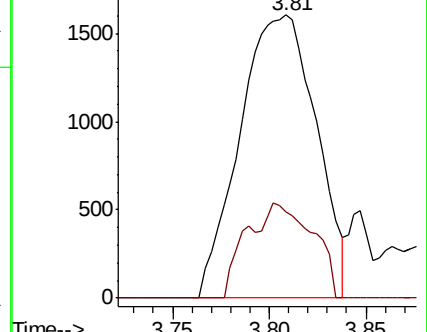
43 100

58 30.5 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-592) (-)

Ion 58.00 (57.70 to 58.70): VN058846.D (-592) (-)



#18

Methyl Acetate

Concen: 0.939 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.02 min

Lab File: VN059044.D

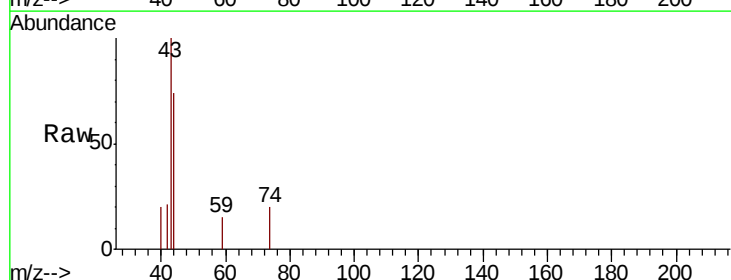
Acq: 31 Oct 2019 17:05

Tgt Ion: 43 Resp: 6480

Ion Ratio Lower Upper

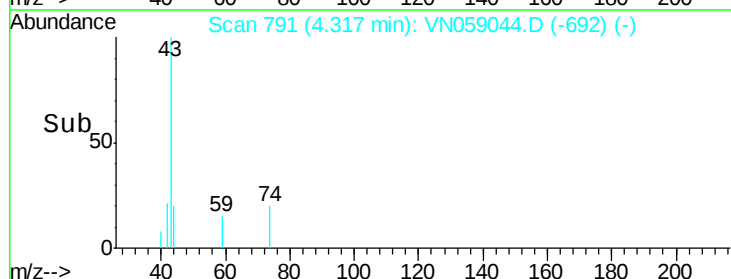
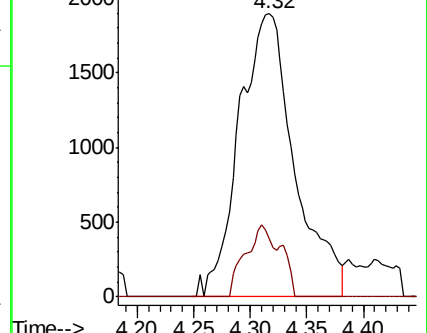
43 100

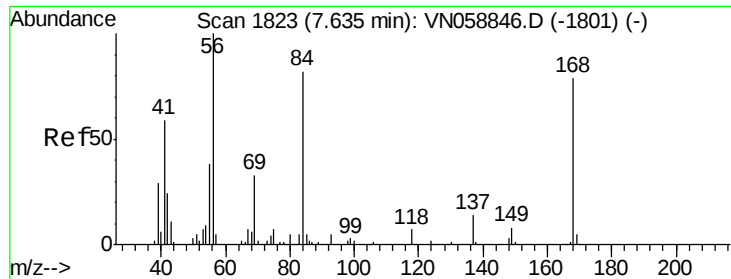
74 12.7 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-762) (-)

Ion 74.00 (73.70 to 74.70): VN058846.D (-762) (-)

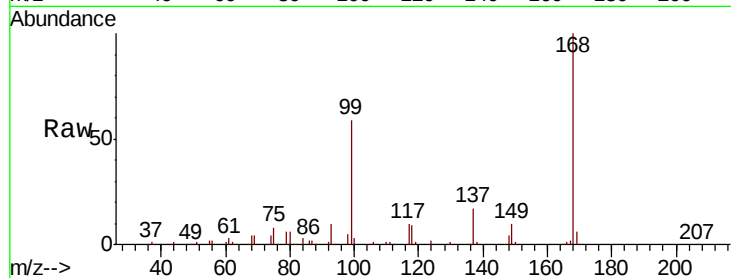




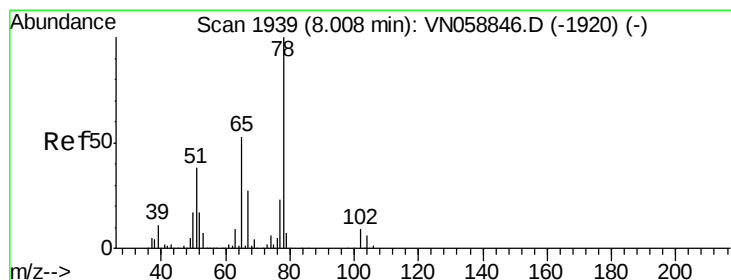
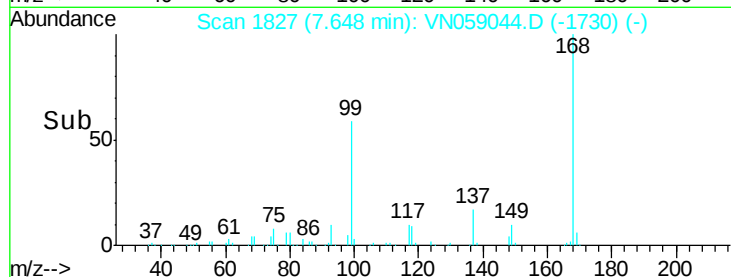
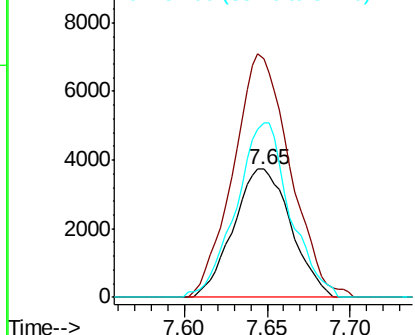
#31
Cyclohexane
Concen: 1.022 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN059044.D
Acq: 31 Oct 2019 17:05

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 9022
Ion Ratio Lower Upper
56 100
69 186.4 26.2 39.4#
84 136.2 65.6 98.4#

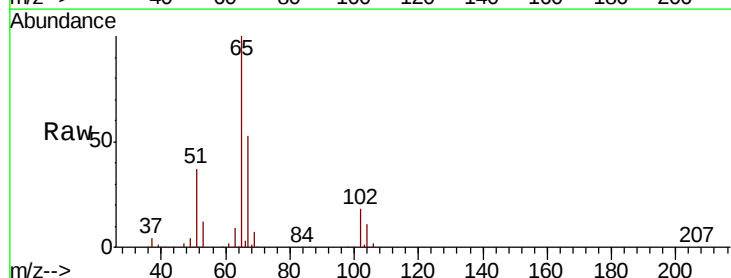


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

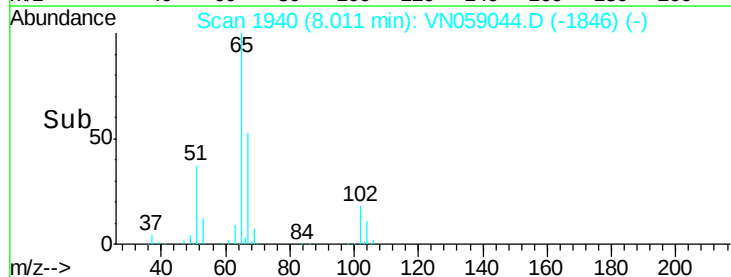
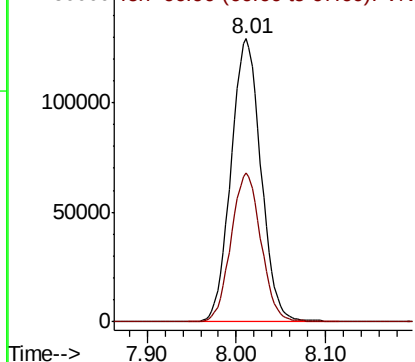


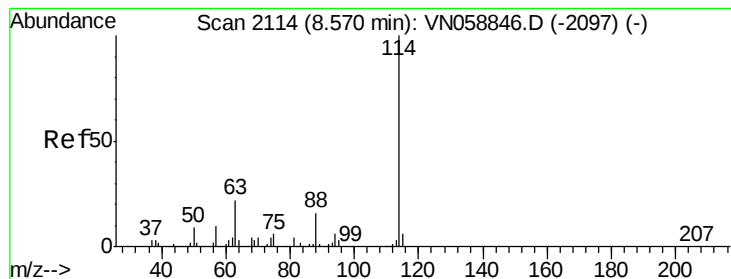
#33
1,2-Dichloroethane-d4
Concen: 49.098 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. 0.00 min
Lab File: VN059044.D
Acq: 31 Oct 2019 17:05

Tgt Ion: 65 Resp: 301587
Ion Ratio Lower Upper
65 100
67 52.4 0.0 103.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN059044.D

Acq: 31 Oct 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

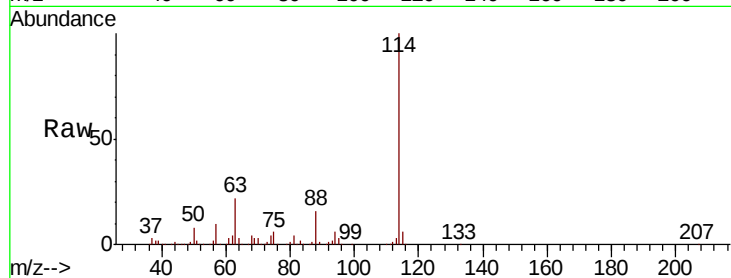
Tot Ion:114 Resp: 660853

Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.4

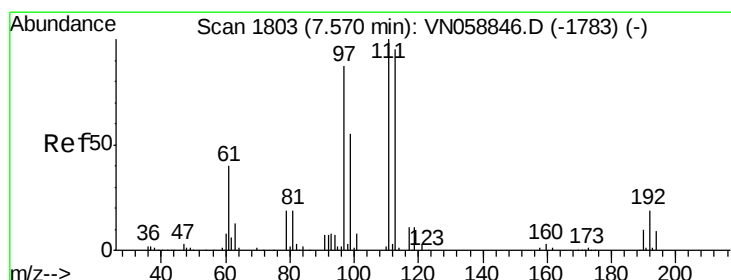
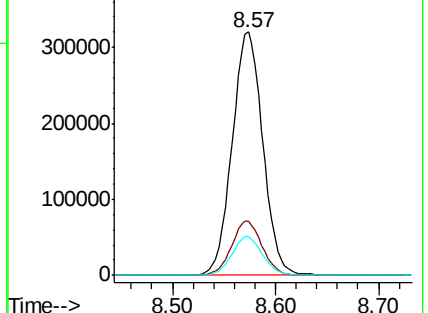
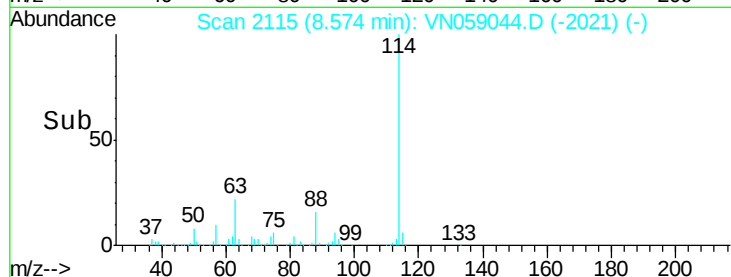
88 15.8 0.0 31.4



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: 51.420 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN059044.D

Acq: 31 Oct 2019 17:05

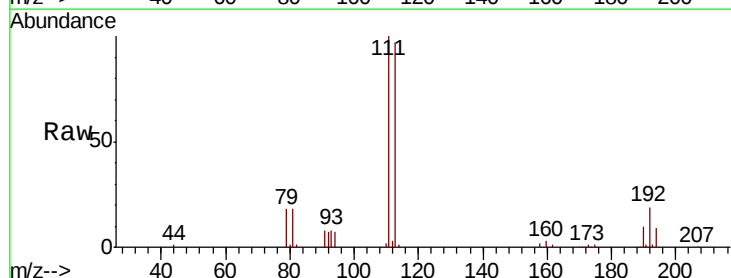
Tgt Ion:113 Resp: 223415

Ion Ratio Lower Upper

113 100

111 102.6 82.0 123.0

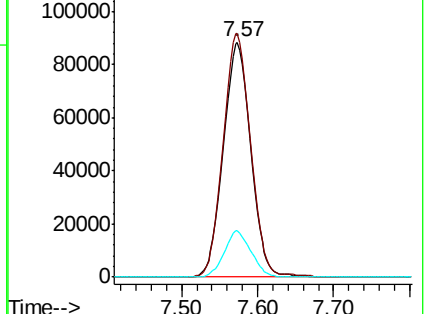
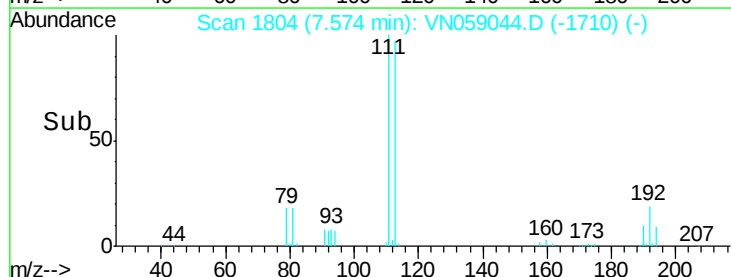
192 19.1 15.0 22.6

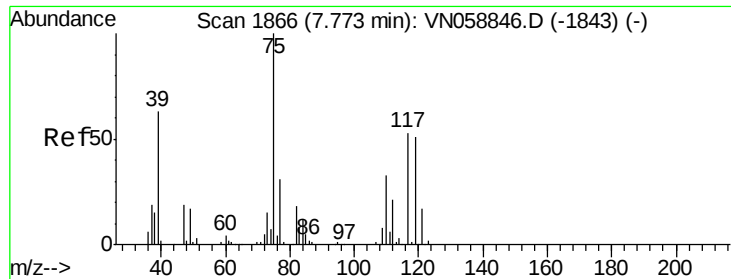


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

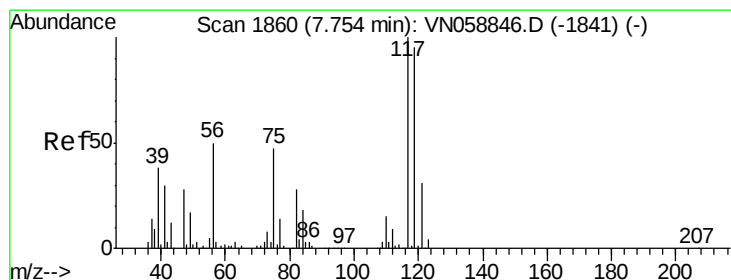
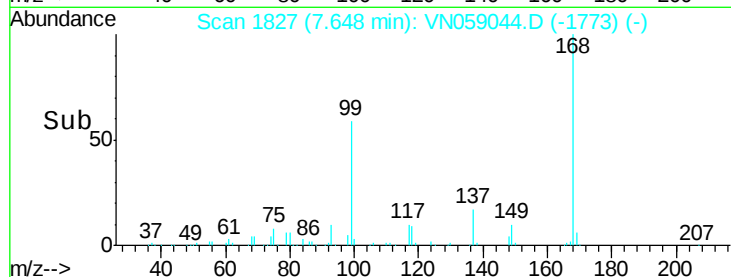
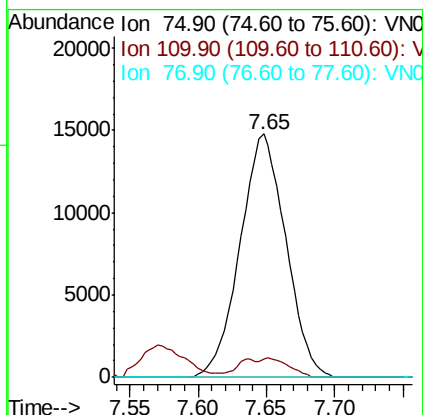
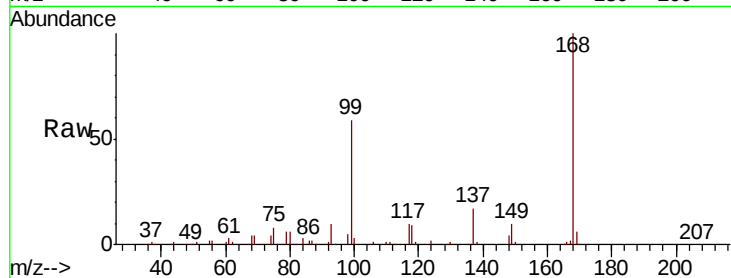




#36
 1,1-Dichloropropene
 Concen: 5.082 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN059044.D
 Acq: 31 Oct 2019 17:05

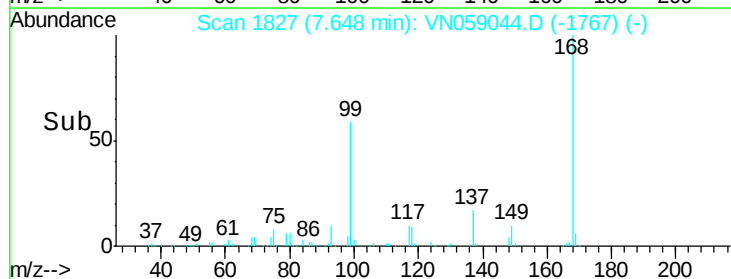
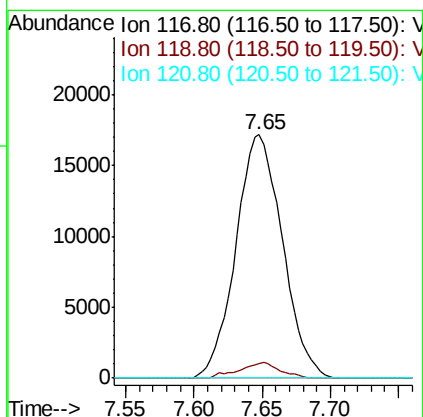
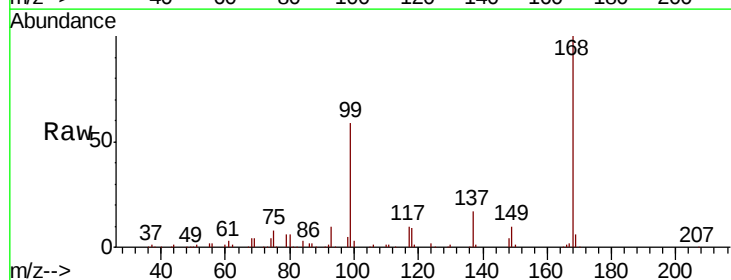
Instrument :
 MSVOA_N
 ClientSampled :

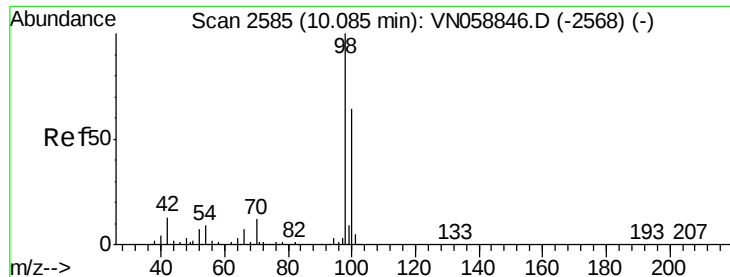
Tot Ion	75	Resp	34382
Ion Ratio	Lower	Upper	
75	100		
110	2.2	16.3	48.9#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.839 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN059044.D
 Acq: 31 Oct 2019 17:05

Tgt Ion	117	Resp	40699
Ion Ratio	Lower	Upper	
117	100		
119	6.1	75.7	113.5#
121	0.0	25.0	37.6#





#50

Toluene-d8

Concen: 49.722 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN059044.D

Acq: 31 Oct 2019 17:05

Instrument :

MSVOA_N

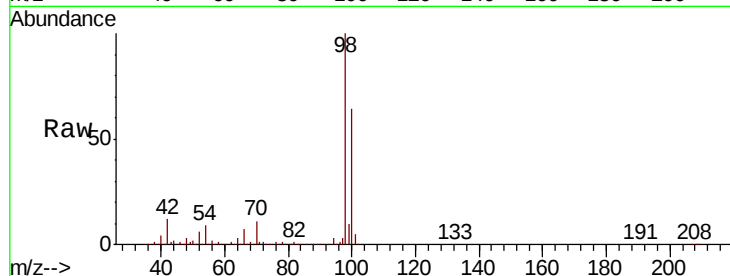
ClientSampled :

Tot Ion: 98 Resp: 838629

Ion Ratio Lower Upper

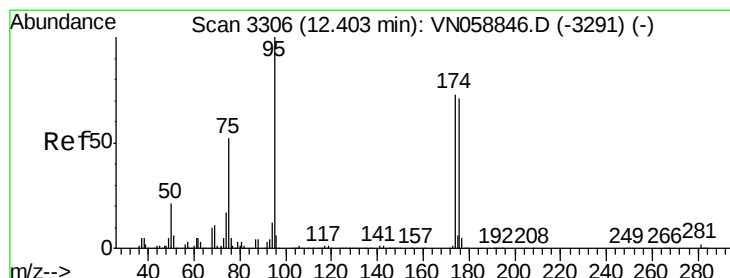
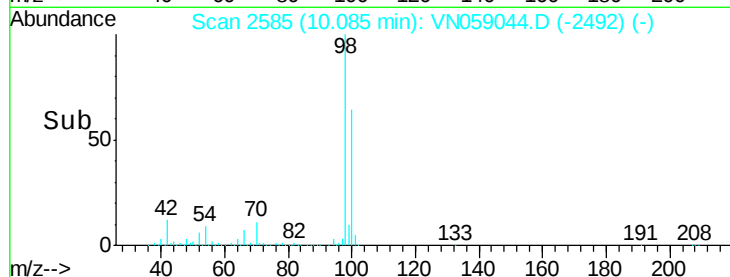
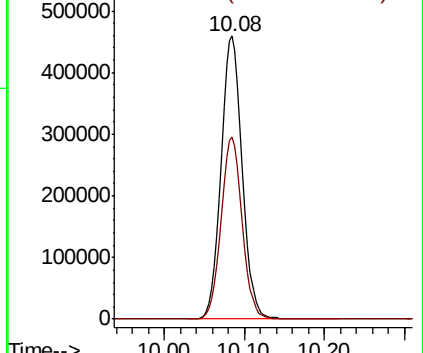
98 100

100 64.0 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: 42.778 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN059044.D

Acq: 31 Oct 2019 17:05

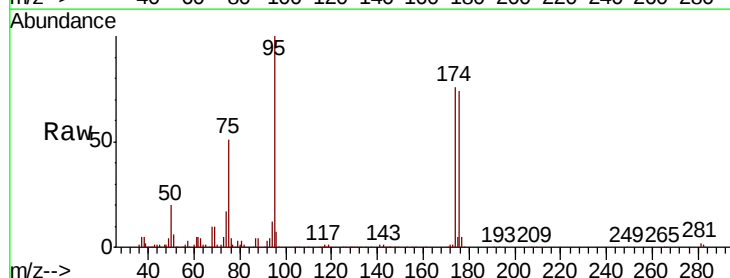
Tgt Ion: 95 Resp: 264959

Ion Ratio Lower Upper

95 100

174 78.2 0.0 147.6

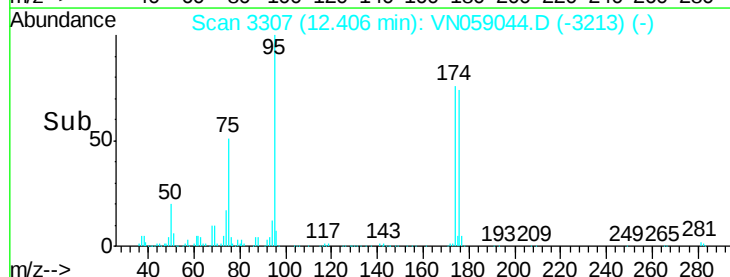
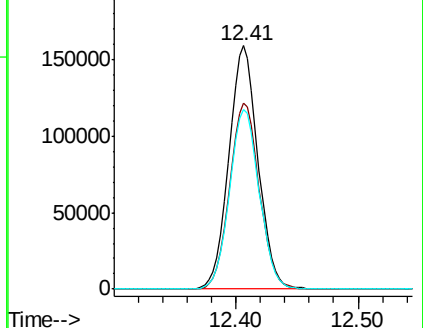
176 75.7 0.0 143.2

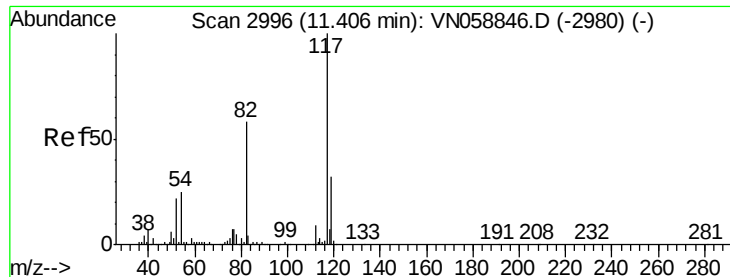


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

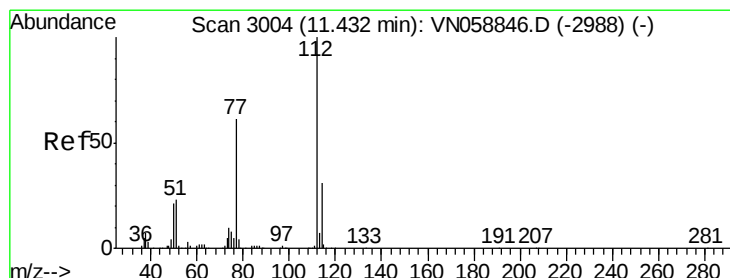
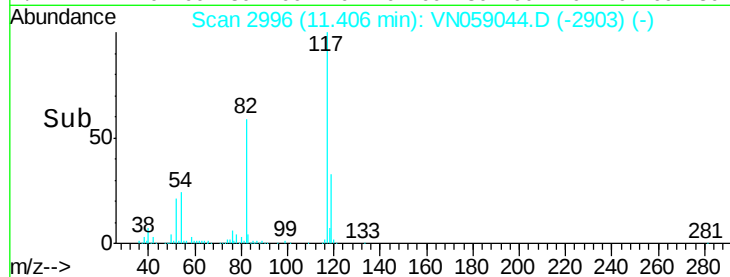
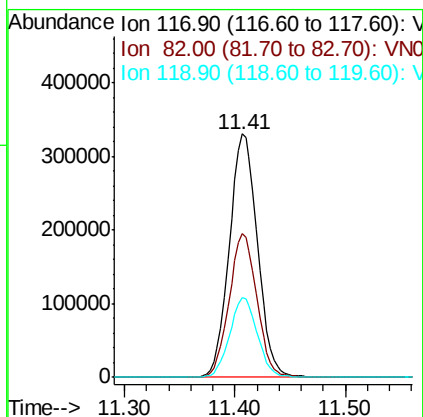
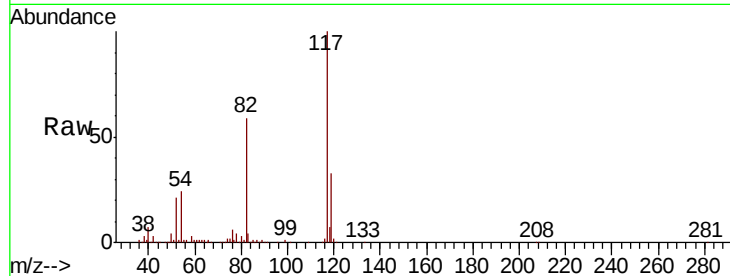




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN059044.D
Acq: 31 Oct 2019 17:05

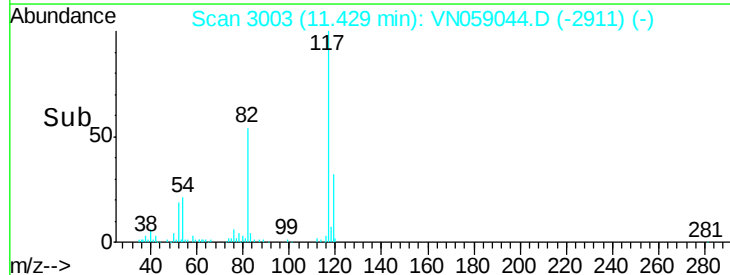
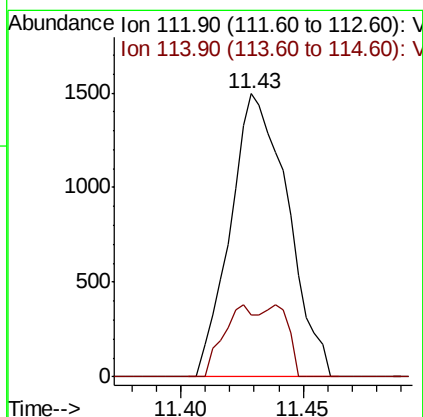
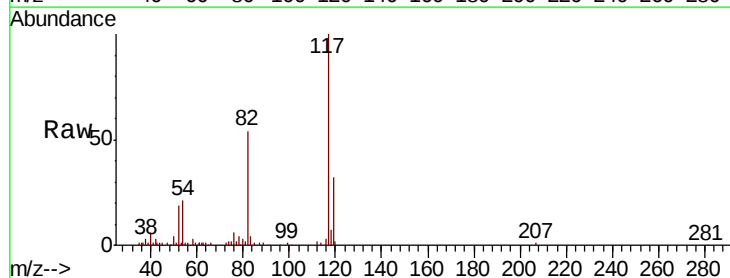
Instrument :
MSVOA_N
ClientSampled :

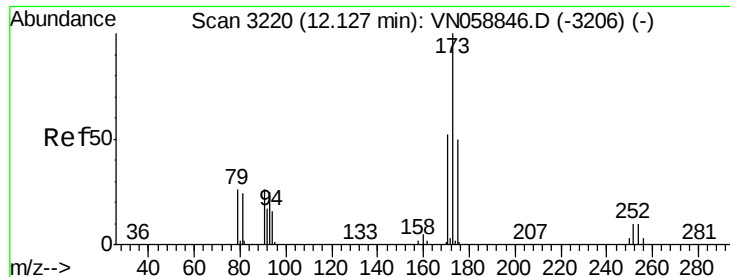
Tot Ion:117 Resp: 585250
Ion Ratio Lower Upper
117 100
82 58.9 46.6 69.8
119 32.8 25.6 38.4



#65
Chlorobenzene
Concen: 0.205 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN059044.D
Acq: 31 Oct 2019 17:05

Tgt Ion:112 Resp: 2439
Ion Ratio Lower Upper
112 100
114 21.9 25.1 37.7#





#71

Bromoform

Concen: 0.445 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN059044.D

Acq: 31 Oct 2019 17:05

Instrument :

MSVOA_N

ClientSampled :

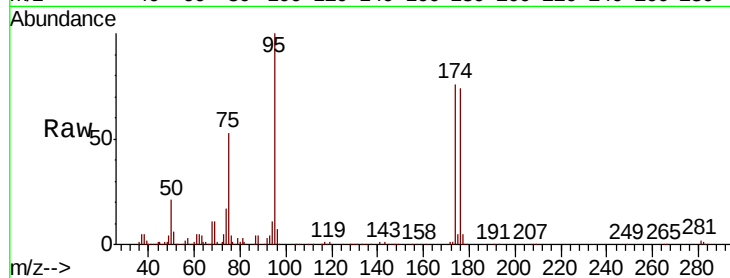
Tot Ion:173 Resp: 1551

Ion Ratio Lower Upper

173 100

175 683.4 24.7 74.1#

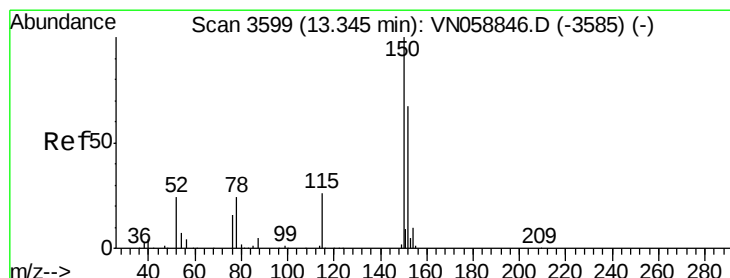
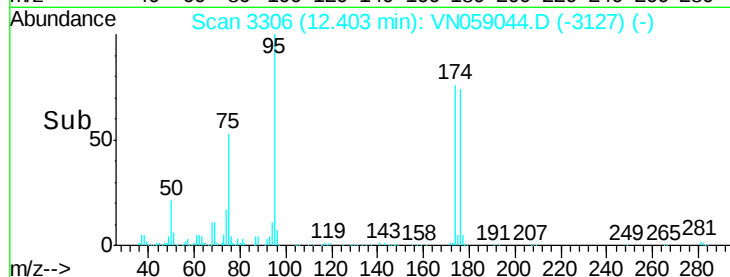
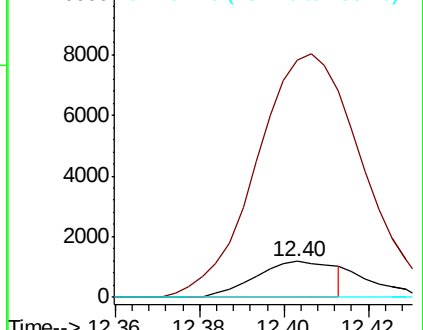
254 0.0 0.0 0.0



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: VN059044.D

Acq: 31 Oct 2019 17:05

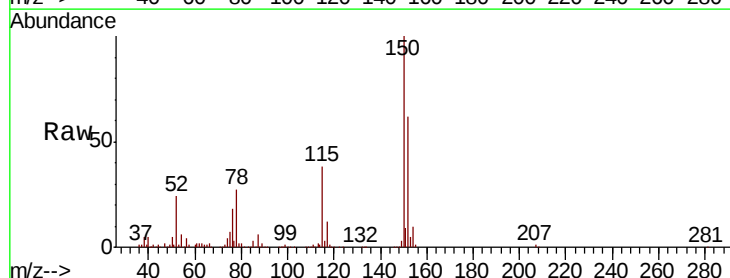
Tgt Ion:152 Resp: 210770

Ion Ratio Lower Upper

152 100

115 61.1 30.5 91.5

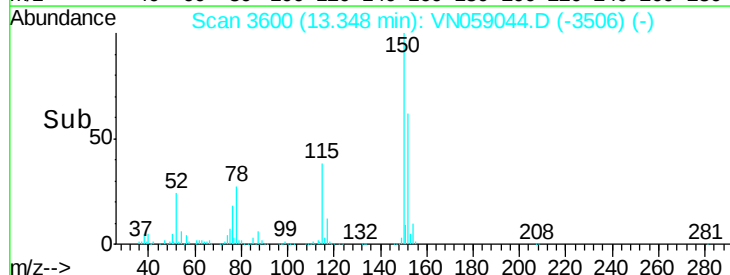
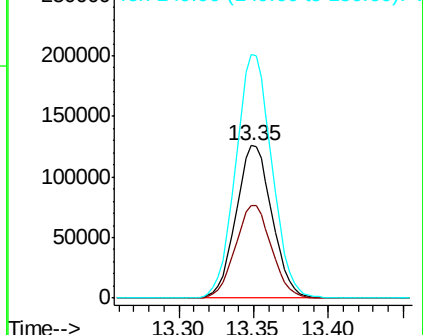
150 161.1 0.0 344.4

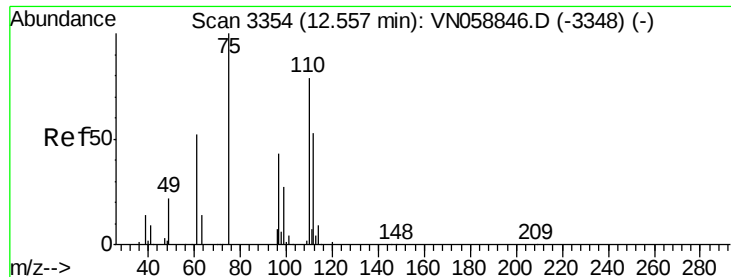


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

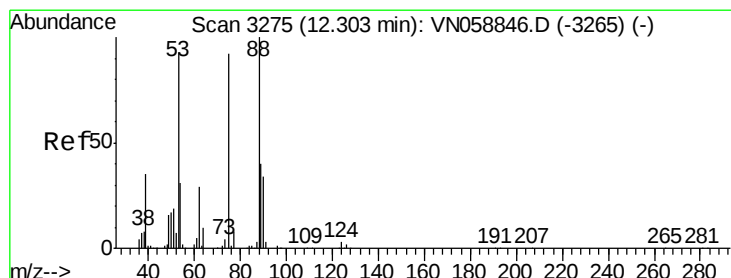
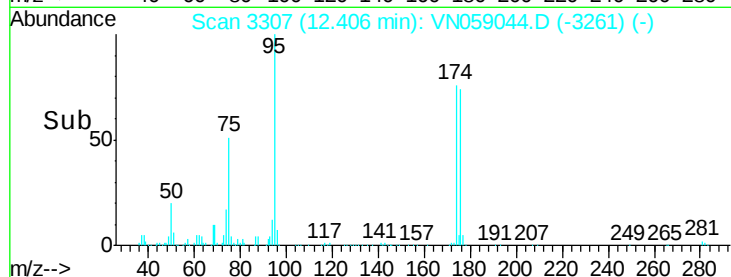
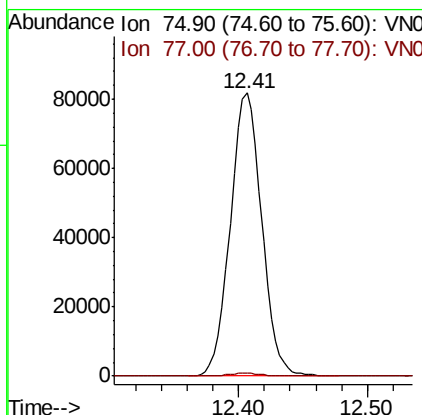
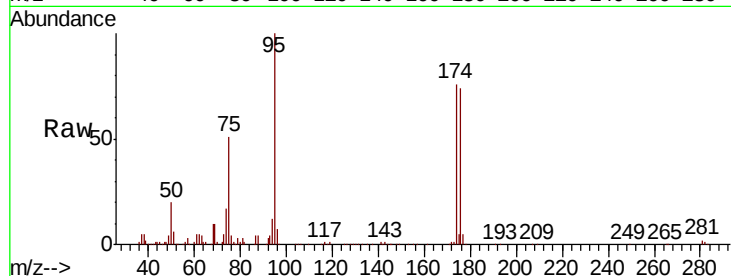




#76
 1,2,3-Trichloropropane
 Concen: 28.333 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN059044.D
 Acq: 31 Oct 2019 17:05

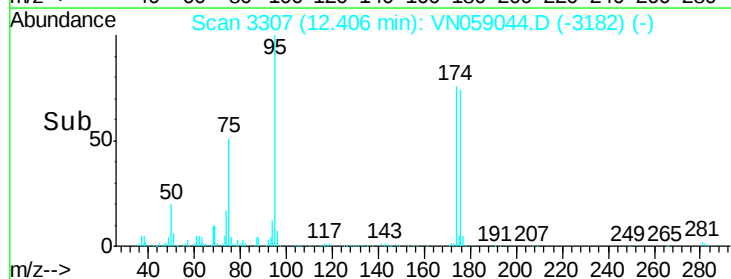
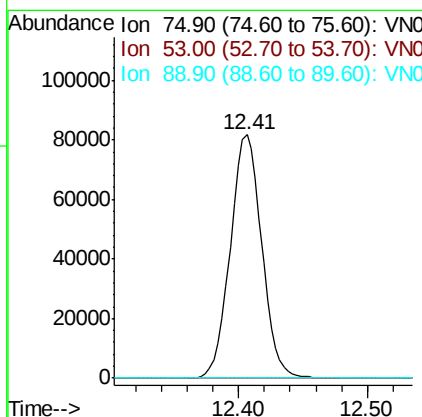
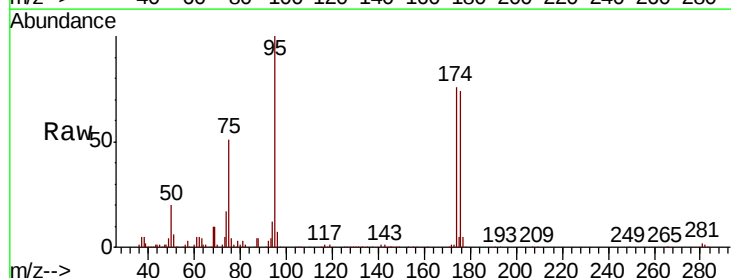
Instrument :
 MSVOA_N
 ClientSampled :

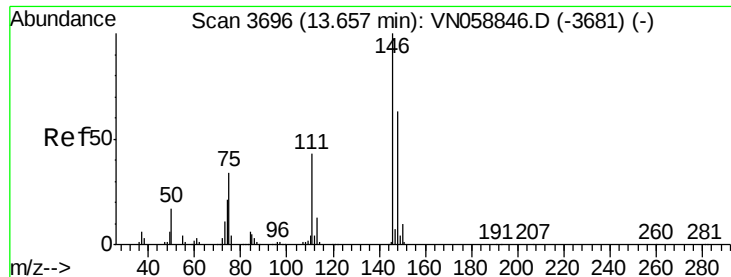
Tot Ion: 75 Resp: 138403
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.810 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN059044.D
 Acq: 31 Oct 2019 17:05

Tgt Ion: 75 Resp: 138403
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.6 118.0#
 89 0.0 35.4 53.0#





#91

1,2-Dichlorobenzene

Concen: 1.647 ug/l

RT: 13.66 min Scan# 3698

Delta R.T. 0.01 min

Lab File: VN059044.D

Acq: 31 Oct 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

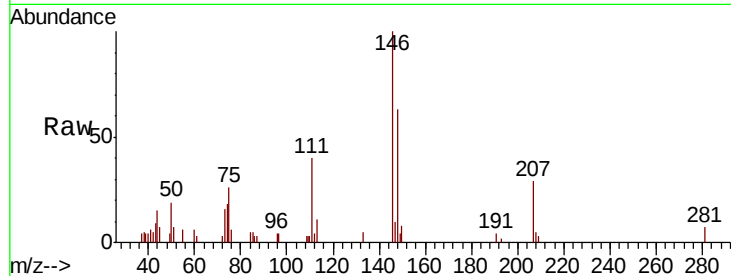
Tot Ion:146 Resp: 10992

Ion Ratio Lower Upper

146 100

111 42.6 21.6 64.8

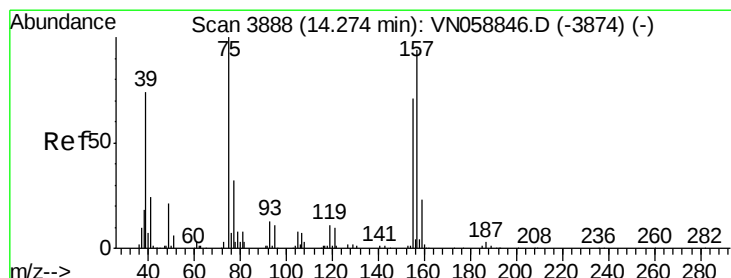
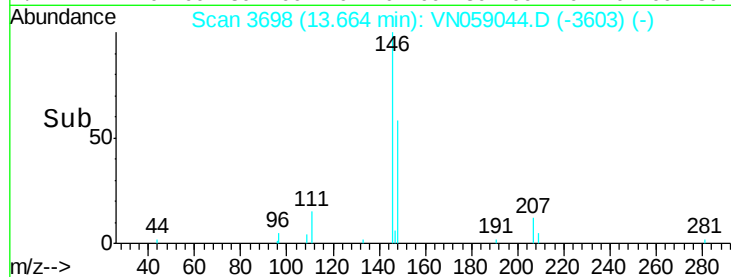
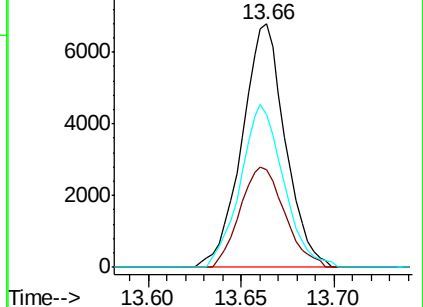
148 66.7 31.9 95.9



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.206 ug/l

RT: 14.26 min Scan# 3885

Delta R.T. -0.01 min

Lab File: VN059044.D

Acq: 31 Oct 2019 17:05

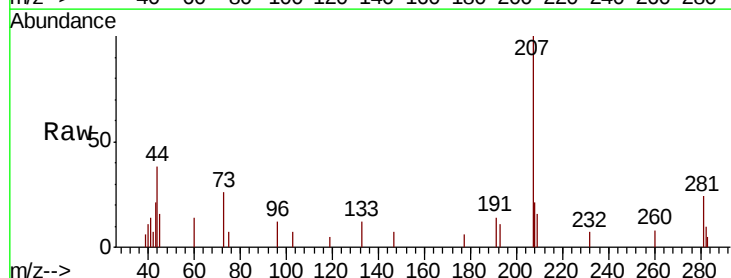
Tgt Ion: 75 Resp: 252

Ion Ratio Lower Upper

75 100

155 0.0 35.6 106.8#

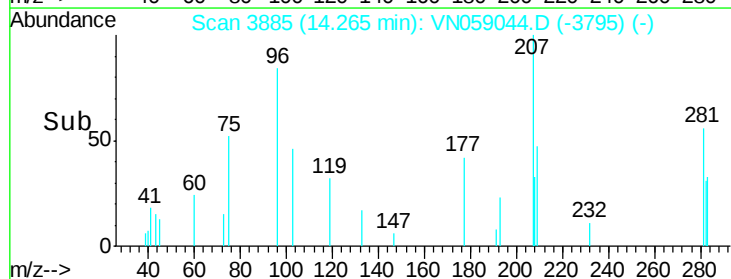
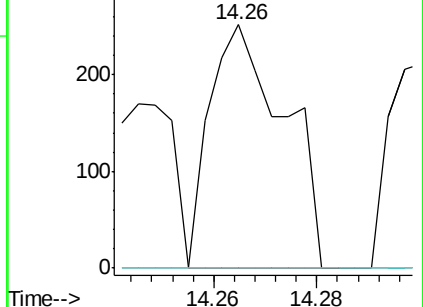
157 0.0 47.4 142.2#

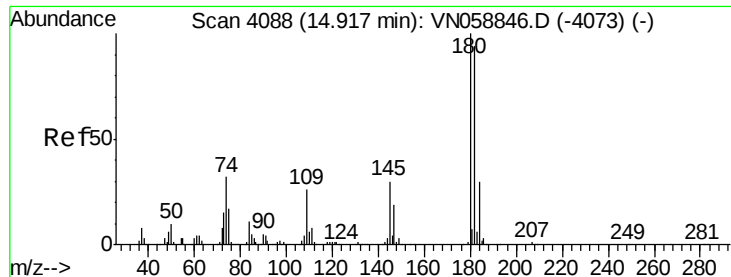


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

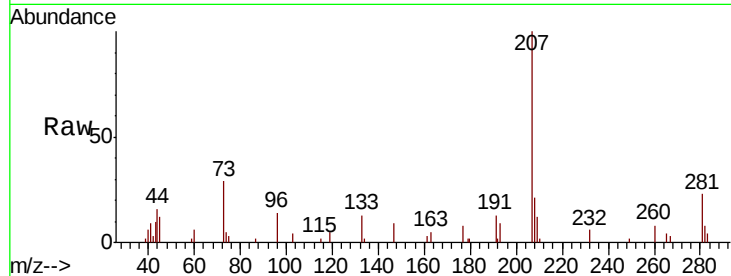




#93
 1,2,4-Trichlorobenzene
 Concen: 2.527 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. -0.00 min
 Lab File: VN059044.D
 Acq: 31 Oct 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.3	142.0#
145	0.0	15.3	45.8#

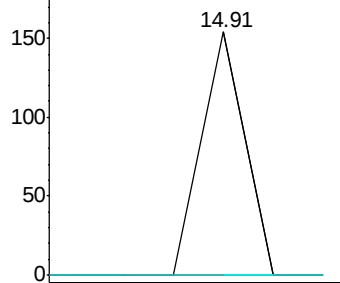


Abundance

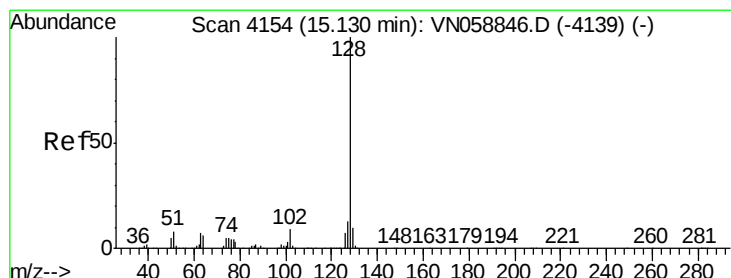
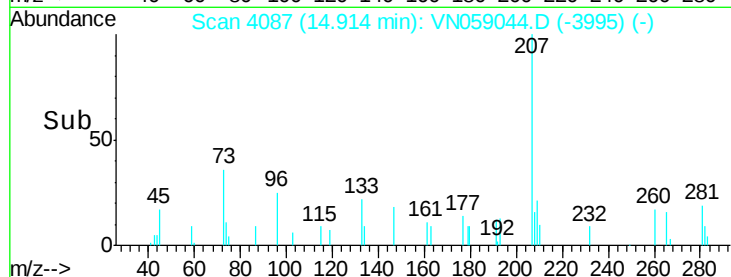
Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

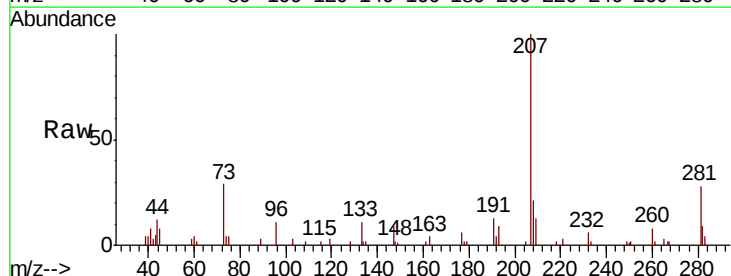


Time-->



#95
 Naphthalene
 Concen: 2.231 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN059044.D
 Acq: 31 Oct 2019 17:05

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.4	12.6#

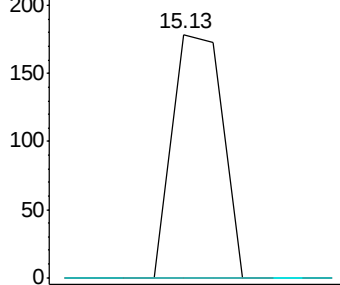


Abundance

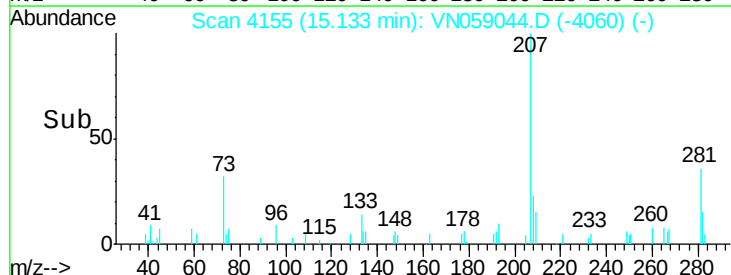
Ion 128.00 (127.70 to 128.70): V

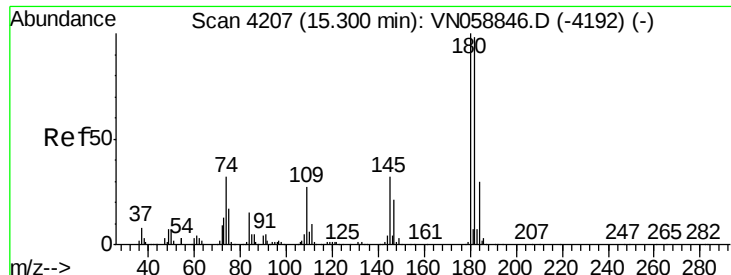
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->

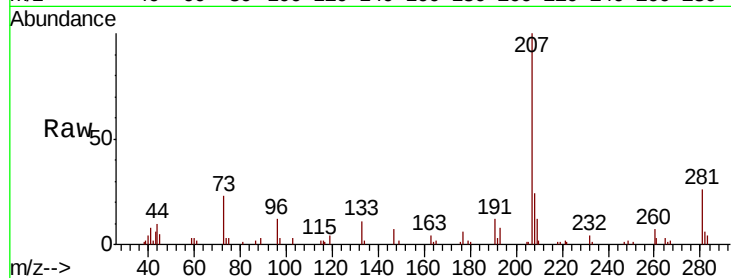




#96
 1,2,3-Trichlorobenzene
 Concen: 2.410 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. 0.01 min
 Lab File: VN059044.D
 Acq: 31 Oct 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.9	143.7
145	0.0	15.9	47.7#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

