

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020720\
 Data File : VN060018.D
 Acq On : 7 Feb 2020 9:41
 Operator : JC/MD
 Sample : VN0207WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 07 23:10:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	184272	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	282579	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	243066	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	85857	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	103192	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
35) Dibromofluoromethane	7.56	113	86376	51.26	ug/l	0.00
Spiked Amount			Recovery	=	102.52%	
50) Toluene-d8	10.08	98	336473	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
62) 4-Bromofluorobenzene	12.40	95	103032	43.77	ug/l	0.00
Spiked Amount			Recovery	=	87.54%	

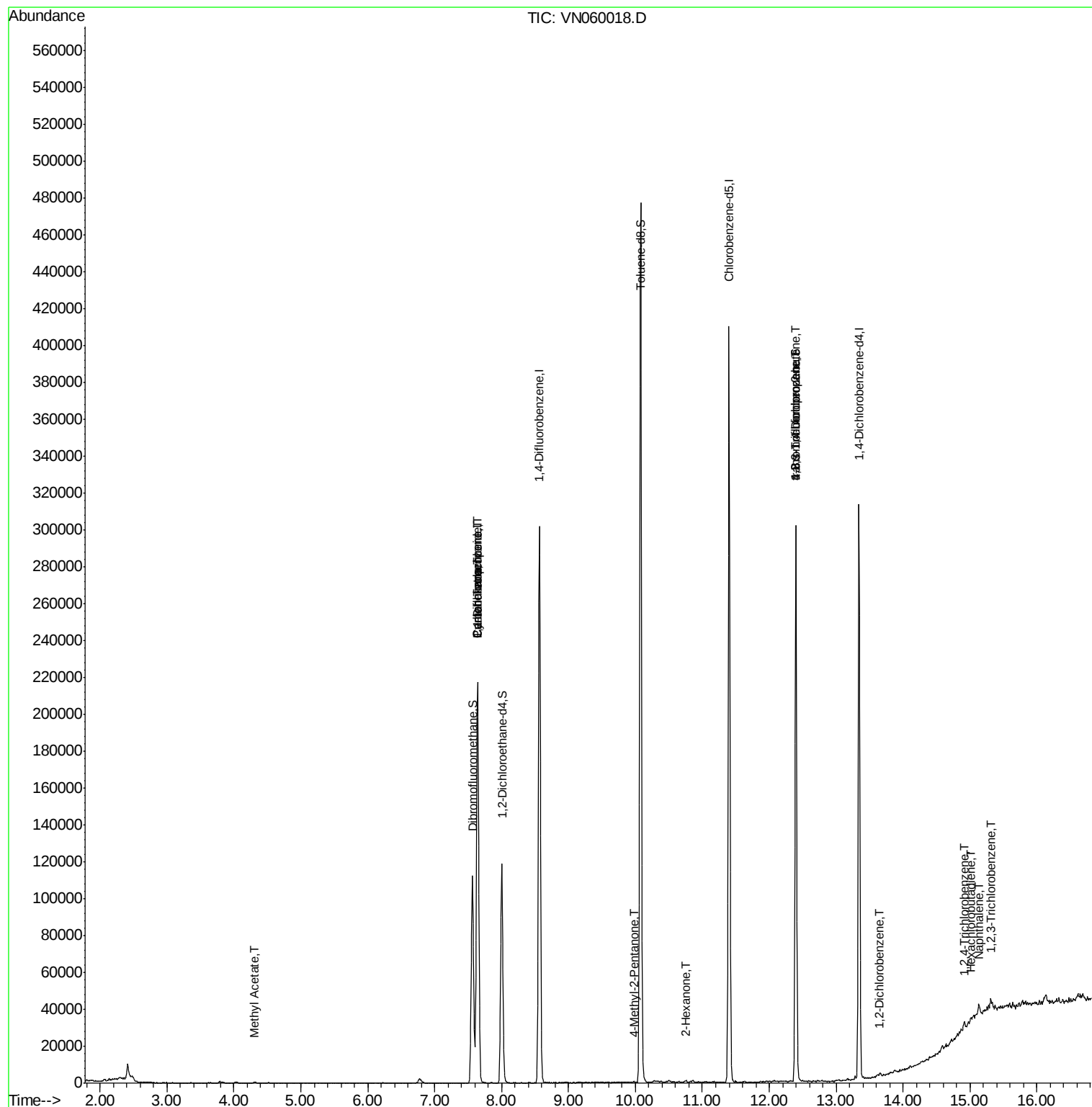
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	1280	Below Cal	#	45
18) Methyl Acetate	4.30	43	988	0.413	ug/l #	54
31) Cyclohexane	7.64	56	3567	1.178	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13005	5.285	ug/l #	50
38) Carbon Tetrachloride	7.64	117	17370	6.489	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	736	0.321	ug/l #	38
59) 2-Hexanone	10.75	43	770	0.455	ug/l	99
76) 1,2,3-Trichloropropane	12.40	75	52171	36.107	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	52171	77.541	ug/l #	11
91) 1,2-Dichlorobenzene	13.65	146	611	0.223	ug/l #	75
92) 1,2-Dibromo-3-Chloropropan	14.27	75	364	Below Cal	#	6
93) 1,2,4-Trichlorobenzene	14.91	180	1579	0.960	ug/l	85
94) Hexachlorobutadiene	15.01	225	402	0.443	ug/l	76
95) Naphthalene	15.13	128	5568	1.190	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.32	180	2116	1.321	ug/l	92

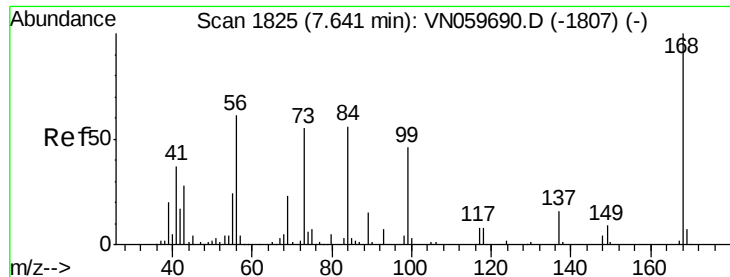
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN060018.D

Acq: 7 Feb 2020 9:41

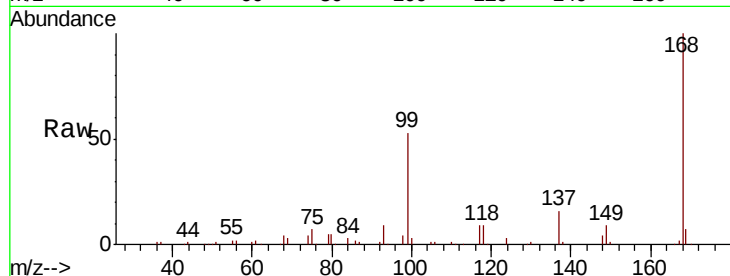
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 184272

Ion Ratio Lower Upper

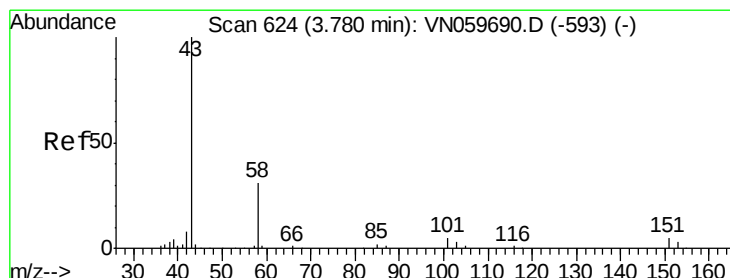
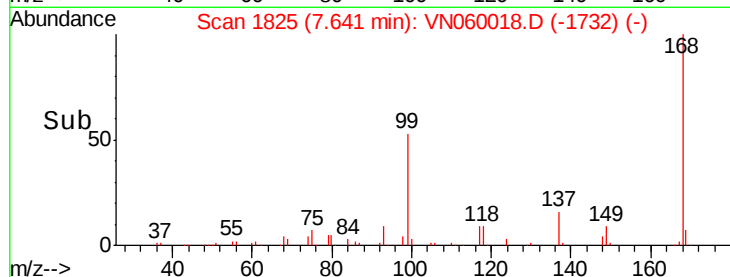
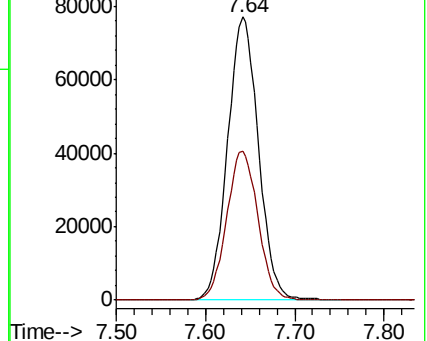
168 100

99 52.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 630

Delta R.T. 0.02 min

Lab File: VN060018.D

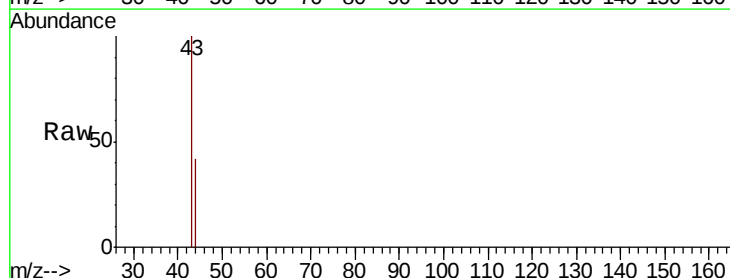
Acq: 7 Feb 2020 9:41

Tgt Ion: 43 Resp: 1280

Ion Ratio Lower Upper

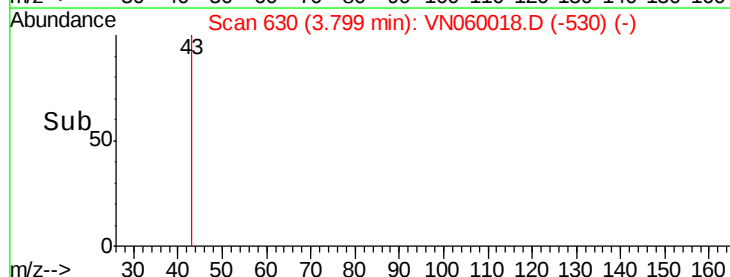
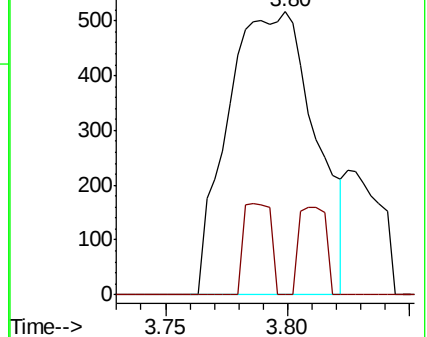
43 100

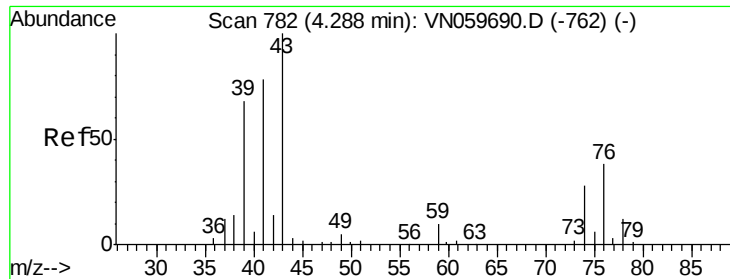
58 0.0 23.6 35.4#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

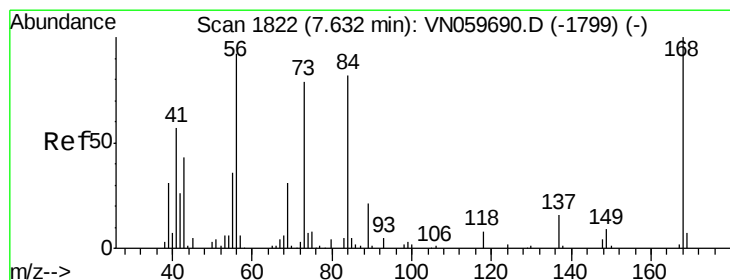
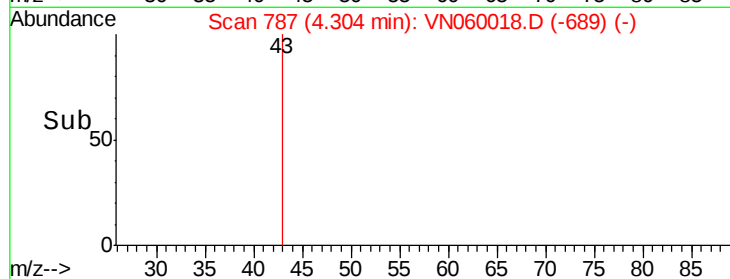
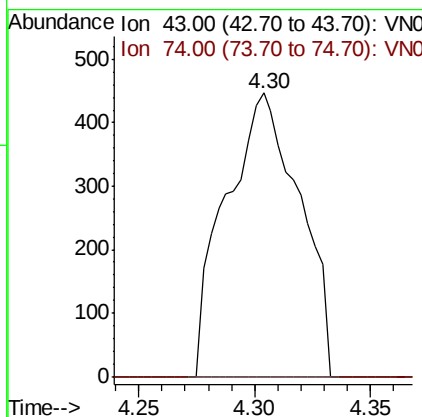
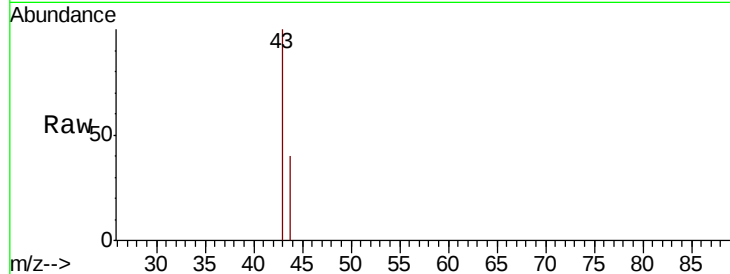




#18
Methvl Acetate
Concen: 0.413 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN060018.D
Acq: 7 Feb 2020 9:41

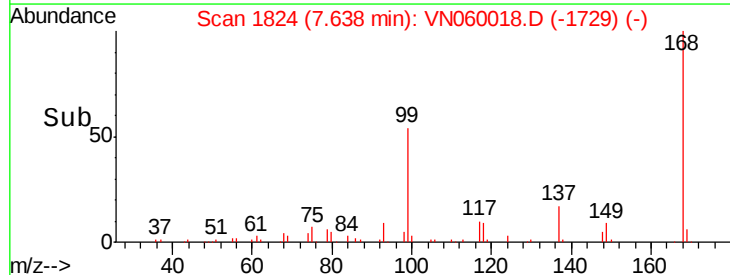
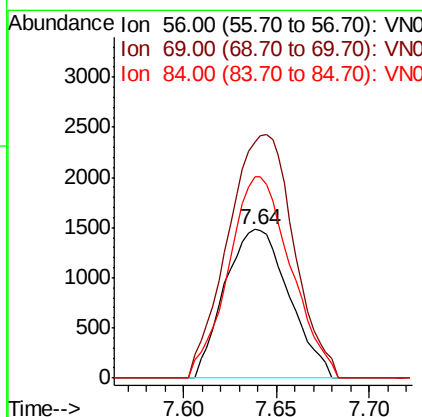
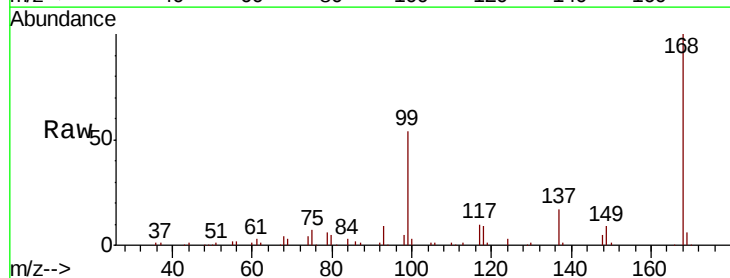
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MSVOA_N
ClientSampleId :

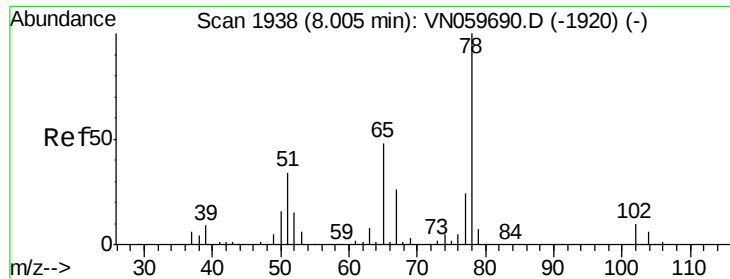
Tot Ion: 43 Resp: 988
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#31
Cyclohexane
Concen: 1.178 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060018.D
Acq: 7 Feb 2020 9:41

Tgt Ion: 56 Resp: 3567
Ion Ratio Lower Upper
56 100
69 159.1 26.5 39.7#
84 135.7 65.3 97.9#

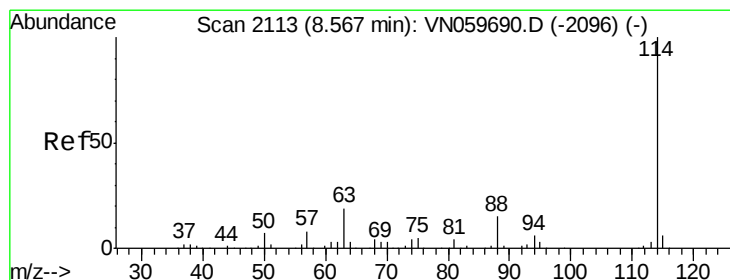
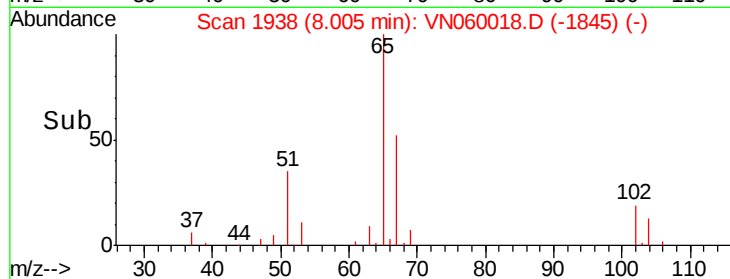
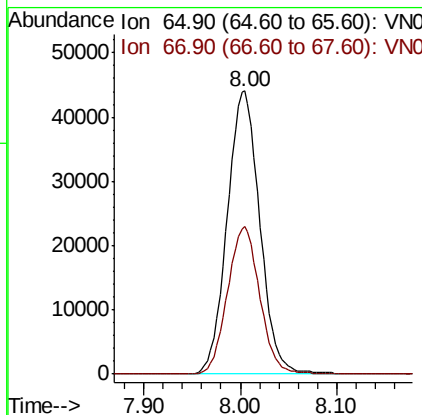
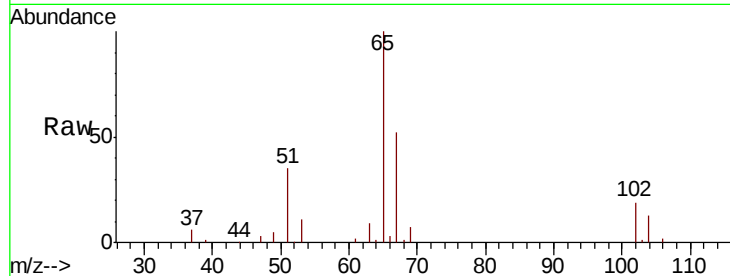




#33
 1,2-Dichloroethane-d4
 Concen: 50.426 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060018.D
 Acq: 7 Feb 2020 9:41

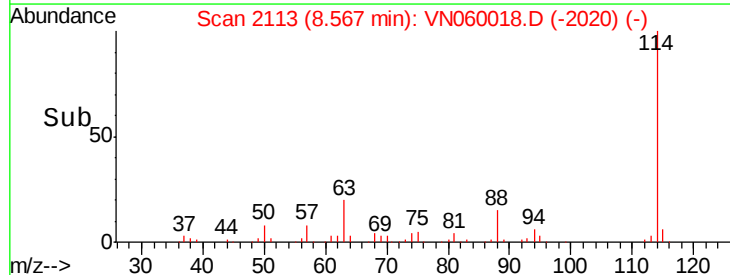
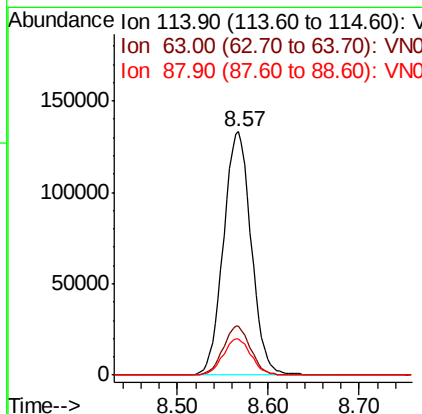
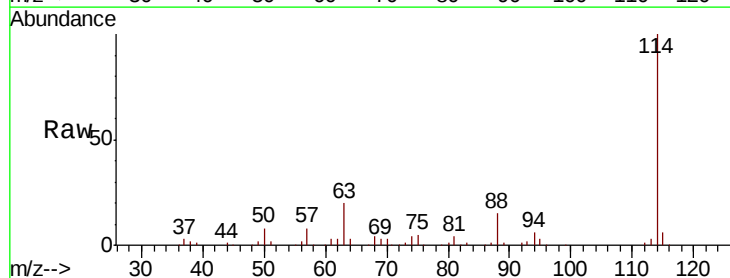
Instrument :
 MSVOA_N
 ClientSampleId :

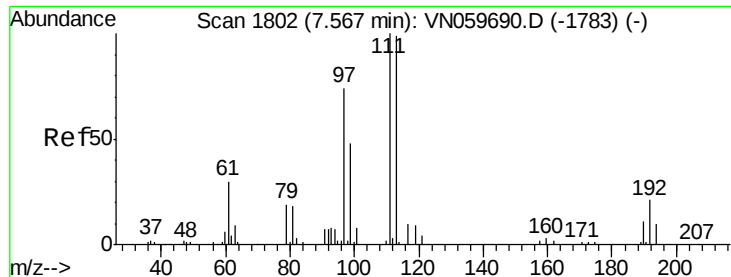
Tot Ion: 65 Resp: 103192
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060018.D
 Acq: 7 Feb 2020 9:41

Tgt Ion: 114 Resp: 282579
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 43.6
 88 14.8 0.0 31.4

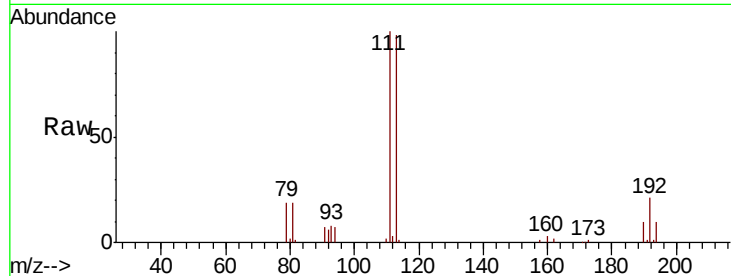




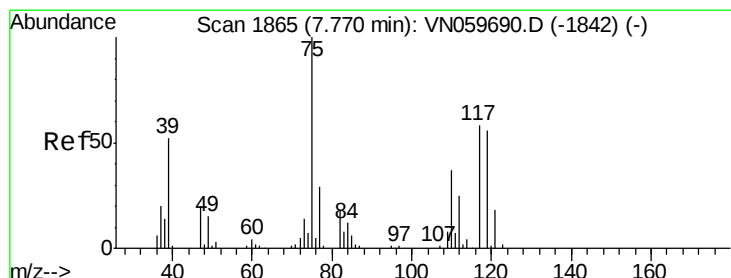
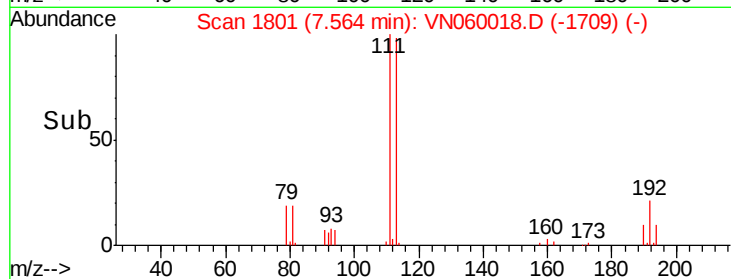
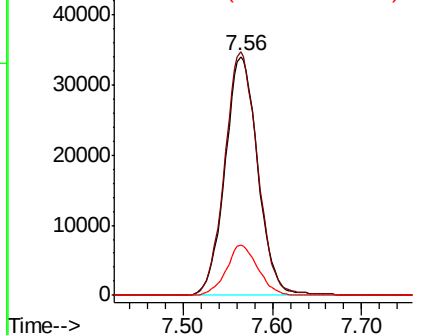
#35
 Dibromofluoromethane
 Concen: 51.257 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060018.D
 Acq: 7 Feb 2020 9:41

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 86376
 Ion Ratio Lower Upper
 113 100
 111 102.3 83.5 125.3
 192 20.1 15.4 23.2

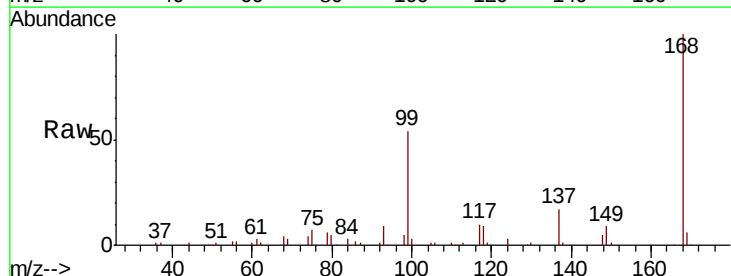


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

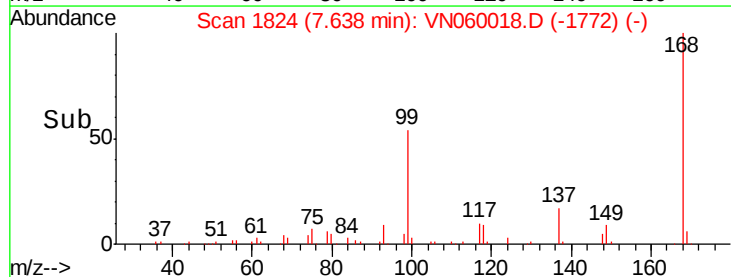
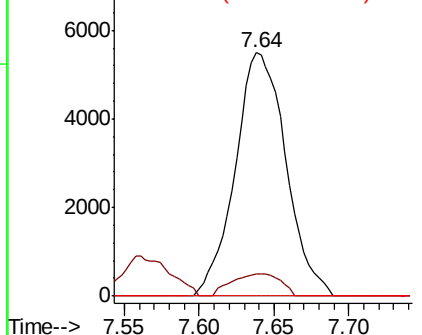


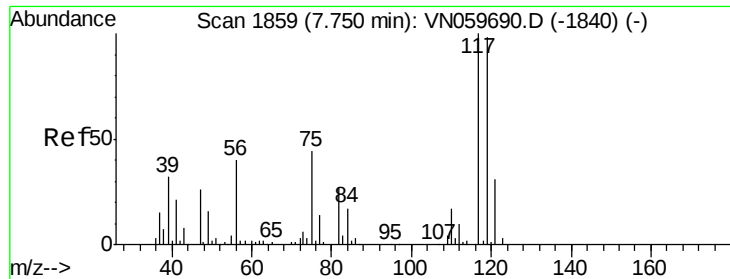
#36
 1,1-Dichloropropene
 Concen: 5.285 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060018.D
 Acq: 7 Feb 2020 9:41

Tgt Ion: 75 Resp: 13005
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.6 49.7#
 77 0.0 25.1 37.7#



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

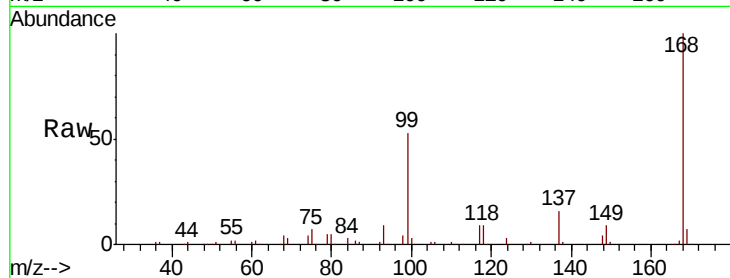




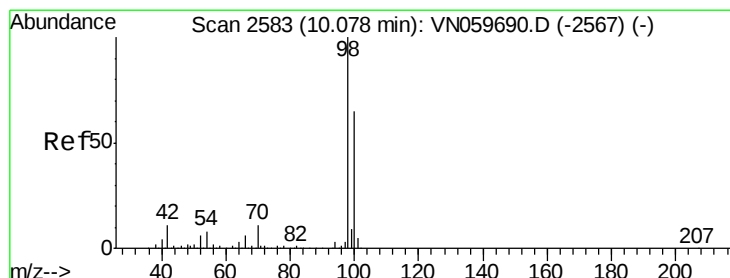
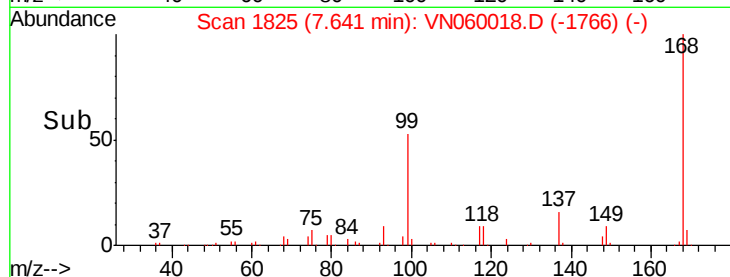
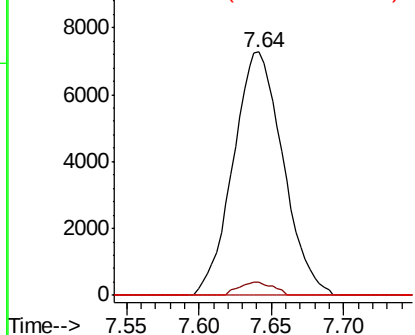
#38
Carbon Tetrachloride
Concen: 6.489 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060018.D
Acq: 7 Feb 2020 9:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 17370
Ion Ratio Lower Upper
117 100
119 5.2 76.5 114.7#
121 0.0 25.1 37.7#

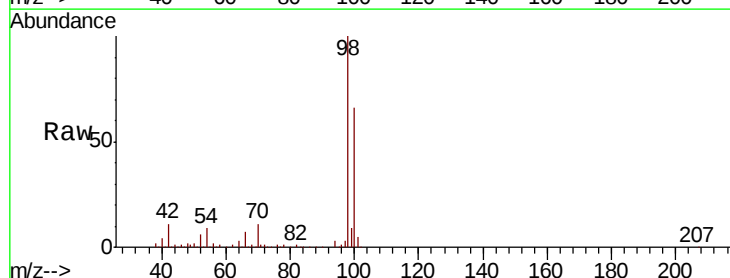


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

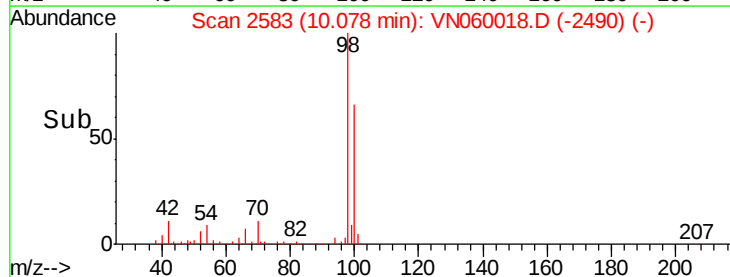
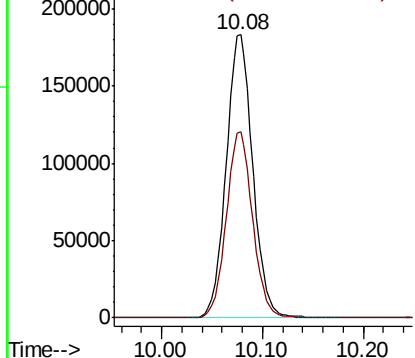


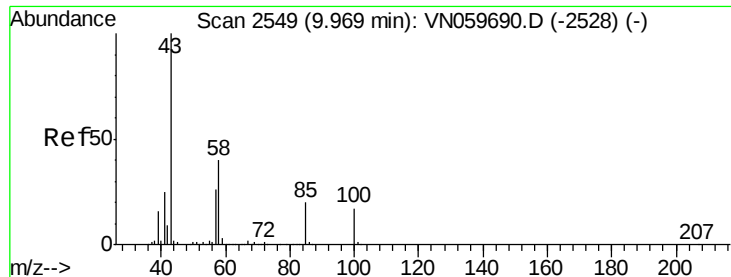
#50
Toluene-d8
Concen: 51.534 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060018.D
Acq: 7 Feb 2020 9:41

Tgt Ion: 98 Resp: 336473
Ion Ratio Lower Upper
98 100
100 65.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN
Ion 100.00 (99.70 to 100.70): VN

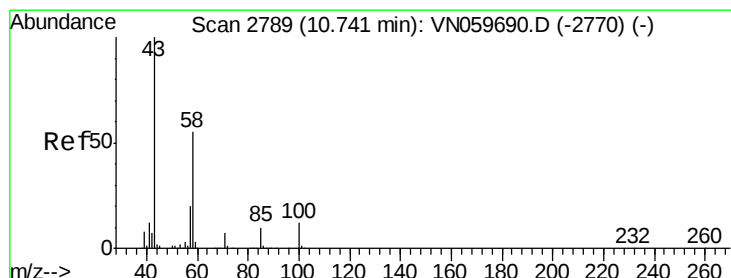
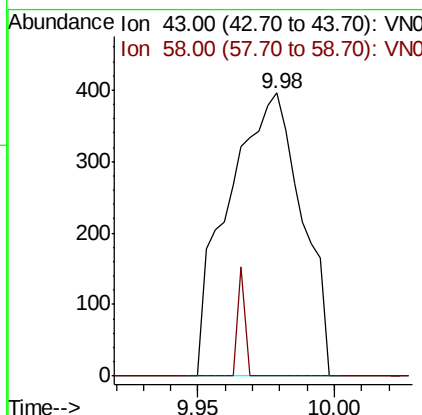
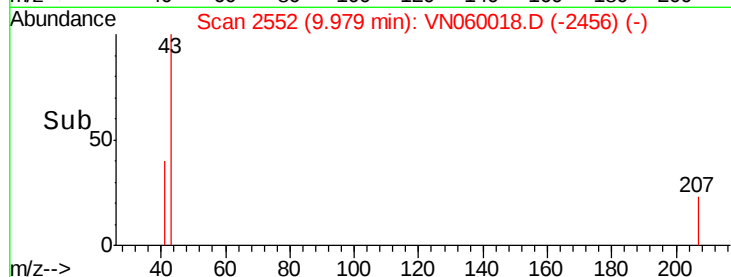
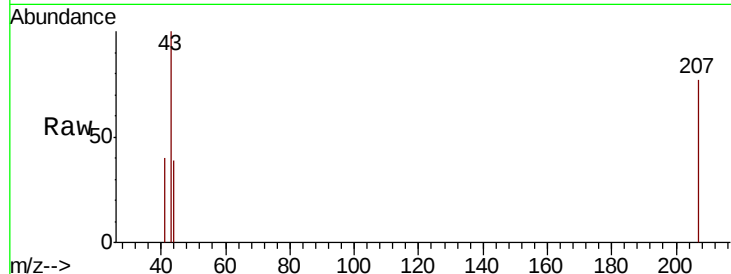




#51
4-Methyl-2-Pentanone
Concen: 0.321 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.01 min
Lab File: VN060018.D
Acq: 7 Feb 2020 9:41

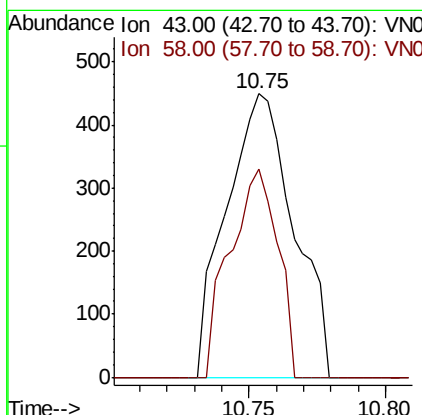
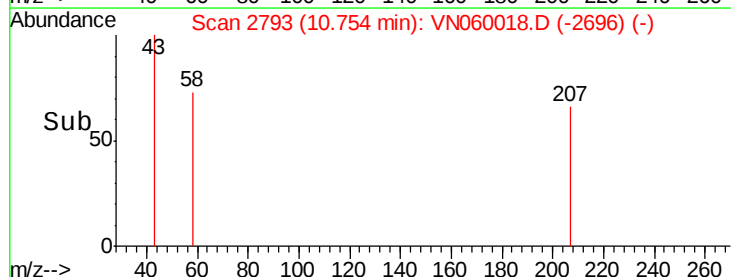
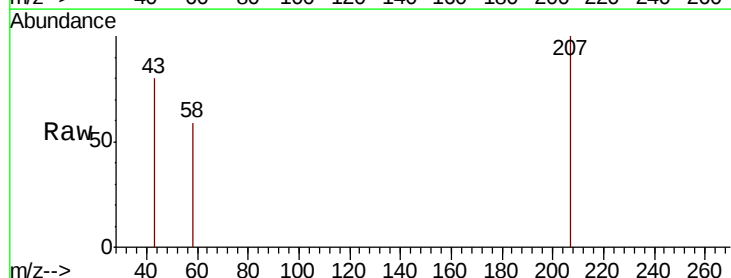
Instrument :
MSVOA_N
ClientSampled :

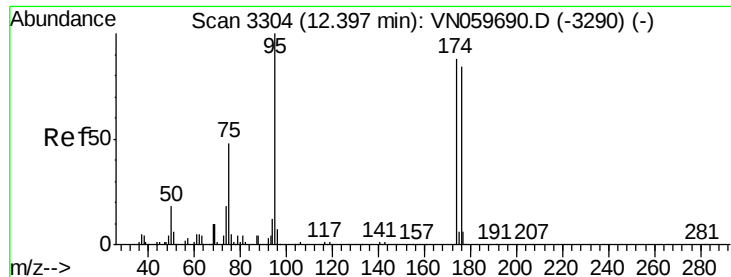
Tot Ion: 43 Resp: 736
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.8#



#59
2-Hexanone
Concen: 0.455 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060018.D
Acq: 7 Feb 2020 9:41

Tgt Ion: 43 Resp: 770
Ion Ratio Lower Upper
43 100
58 51.9 25.8 77.3

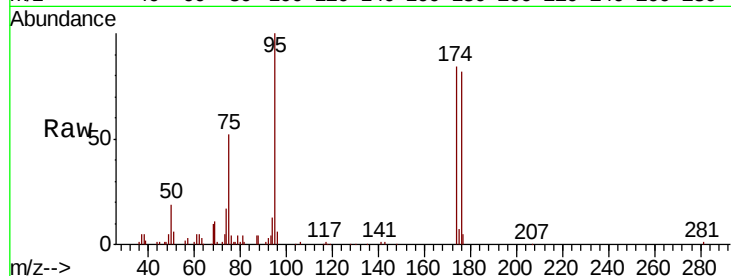




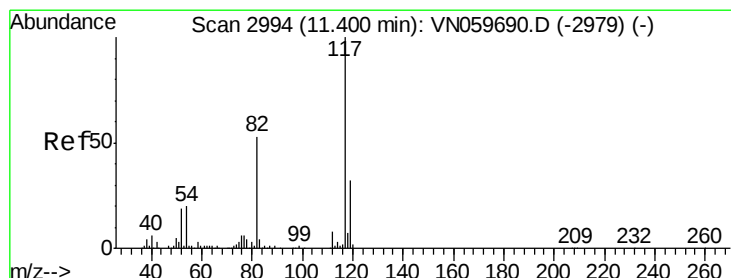
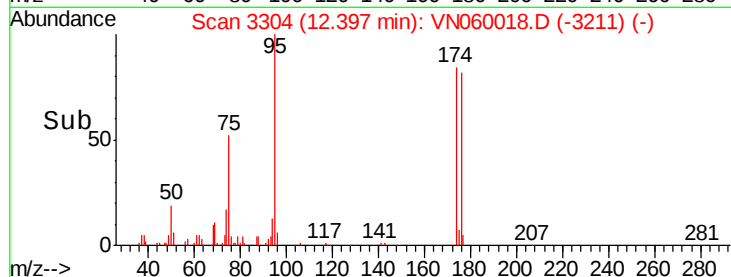
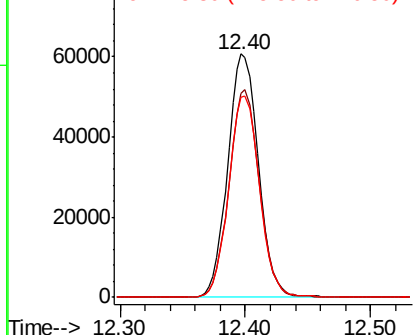
#62
4-Bromofluorobenzene
Concen: 43.774 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060018.D
Acq: 7 Feb 2020 9:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 95 Resp: 103032
Ion Ratio Lower Upper
95 100
174 84.4 0.0 151.4
176 83.4 0.0 146.0

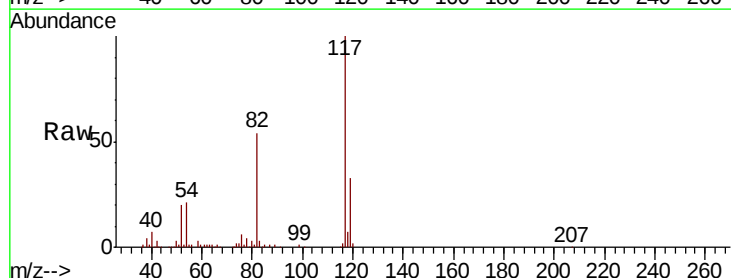


Abundance Ion 94.90 (94.60 to 95.60): VN0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

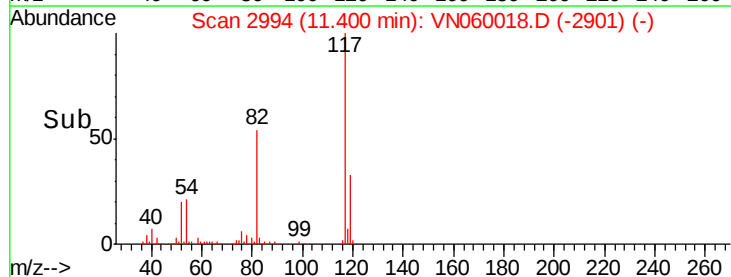
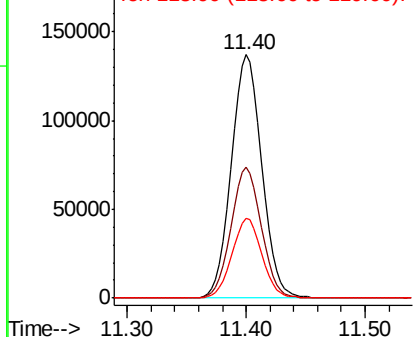


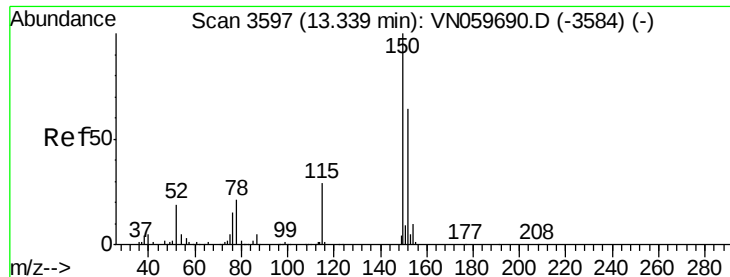
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060018.D
Acq: 7 Feb 2020 9:41

Tgt Ion: 117 Resp: 243066
Ion Ratio Lower Upper
117 100
82 53.7 45.9 68.9
119 32.7 25.5 38.3



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN060018.D

Acq: 7 Feb 2020 9:41

Instrument :

MSVOA_N

ClientSampleId :

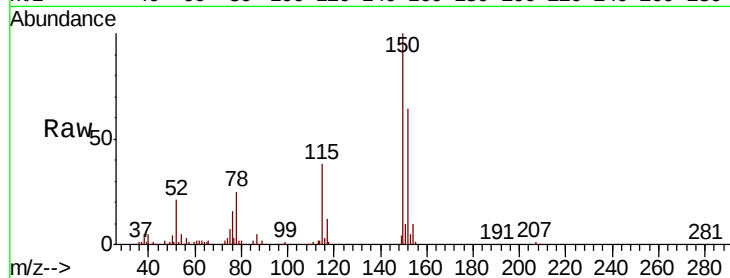
Tot Ion:152 Resp: 85857

Ion Ratio Lower Upper

152 100

115 58.7 30.3 90.9

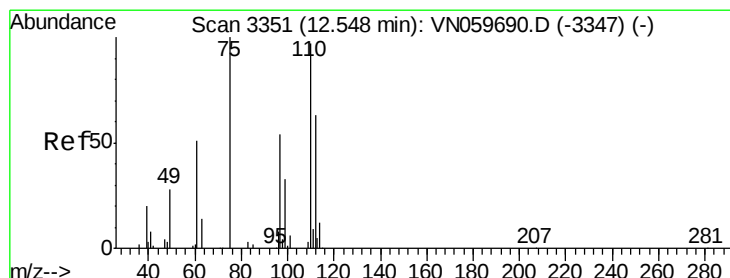
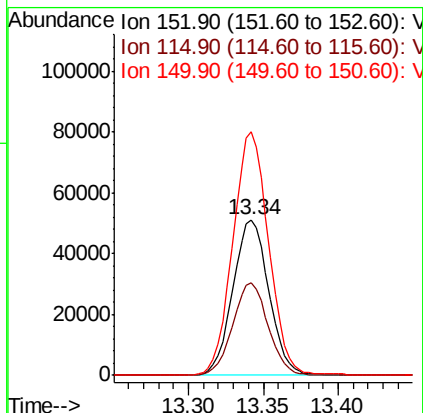
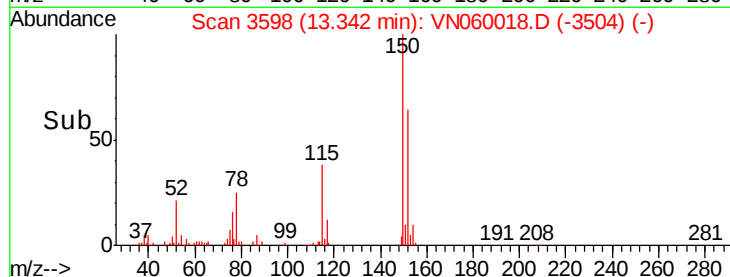
150 155.8 0.0 345.2



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: 36.107 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060018.D

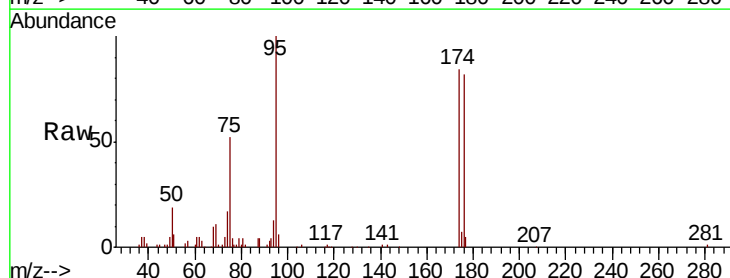
Acq: 7 Feb 2020 9:41

Tgt Ion: 75 Resp: 52171

Ion Ratio Lower Upper

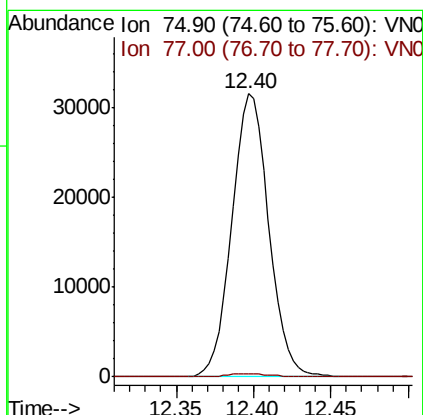
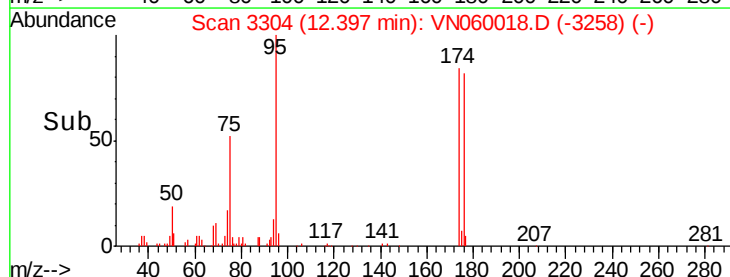
75 100

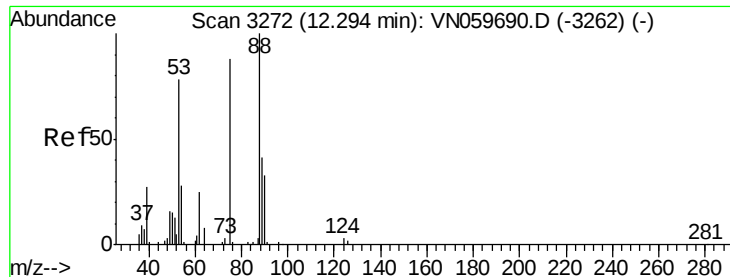
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

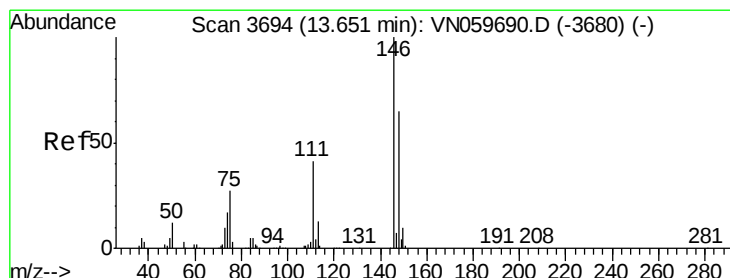
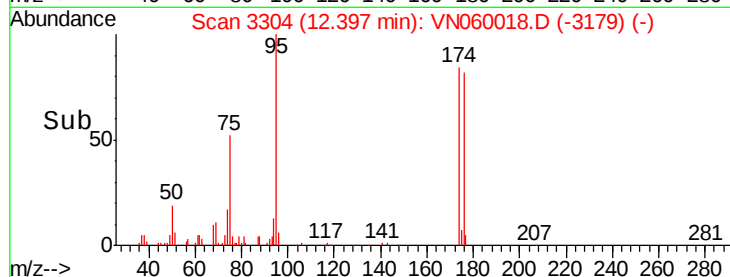
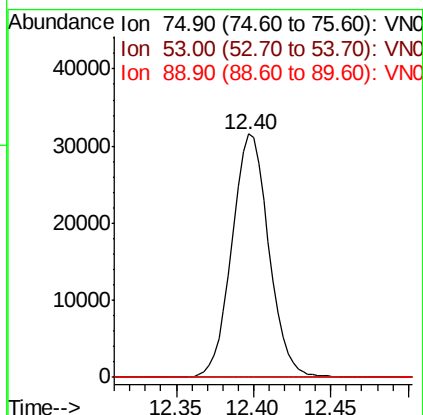
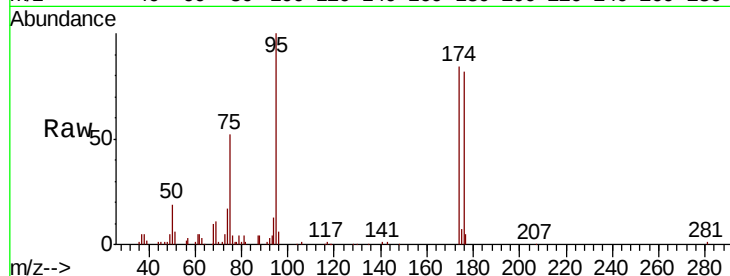




#81
trans-1,4-Dichloro-2-butene
Concen: 77.541 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060018.D
Acq: 7 Feb 2020 9:41

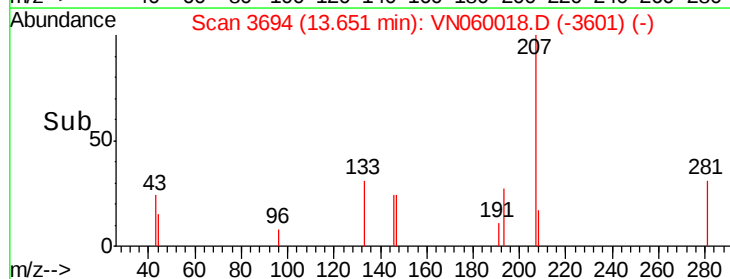
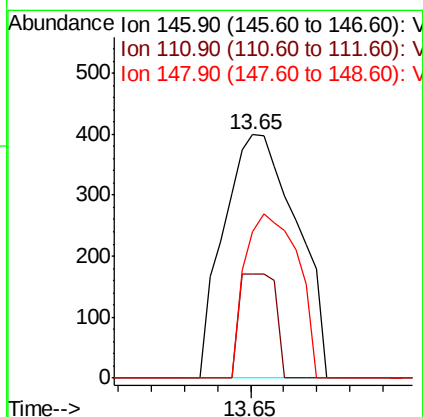
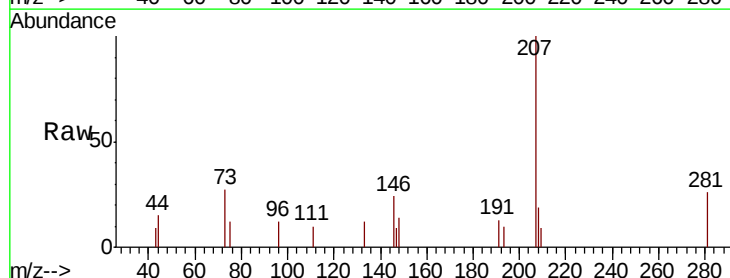
Instrument :
MSVOA_N
ClientSampled :

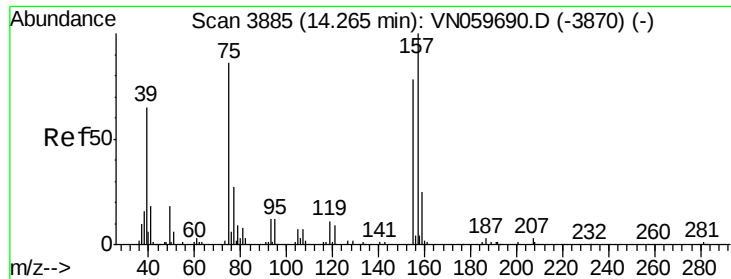
Tot Ion: 75 Resp: 52171
Ion Ratio Lower Upper
75 100
53 0.0 78.1 117.1#
89 0.0 35.4 53.2#



#91
1,2-Dichlorobenzene
Concen: 0.223 ug/l
RT: 13.65 min Scan# 3694
Delta R.T. 0.00 min
Lab File: VN060018.D
Acq: 7 Feb 2020 9:41

Tgt Ion: 146 Resp: 611
Ion Ratio Lower Upper
146 100
111 21.3 21.6 64.8#
148 48.8 31.6 95.0

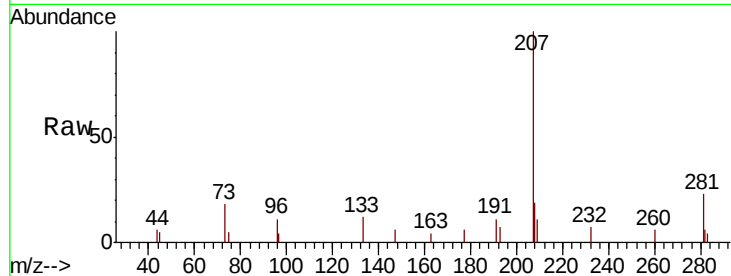




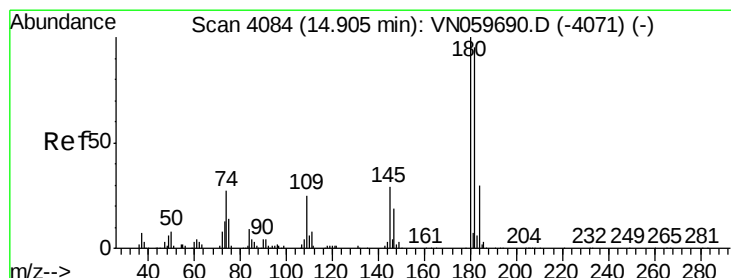
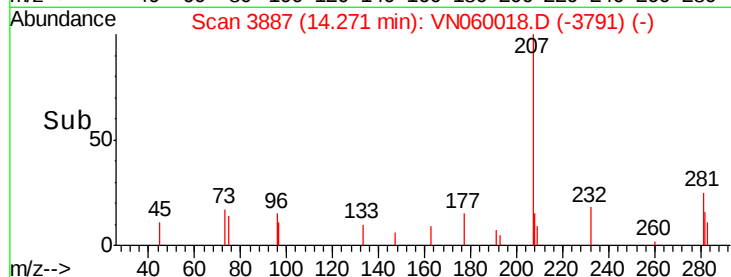
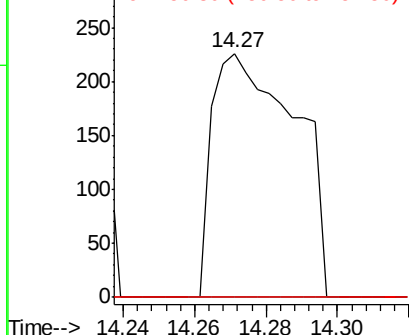
#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.01 min
 Lab File: VN060018.D
 Acq: 7 Feb 2020 9:41

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 364
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#

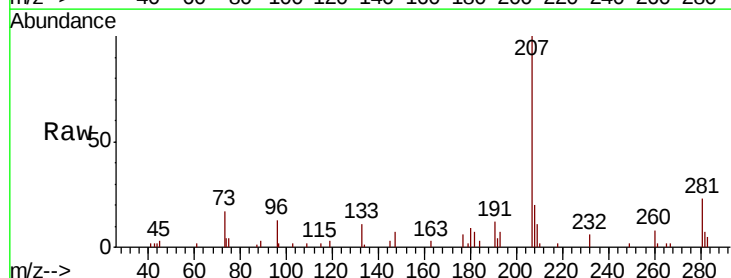


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

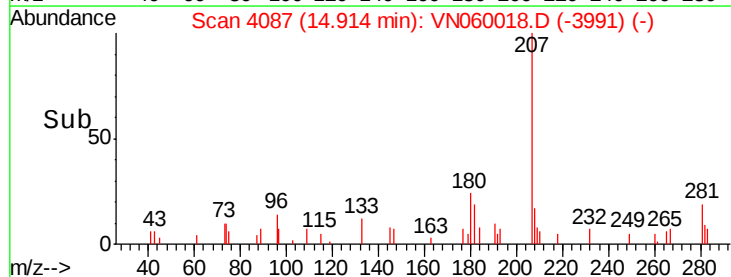
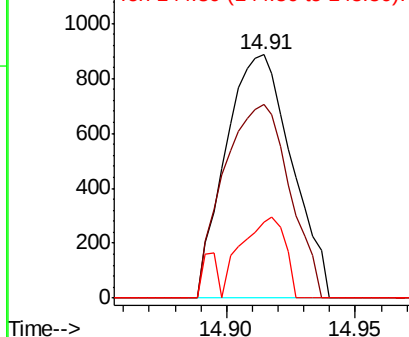


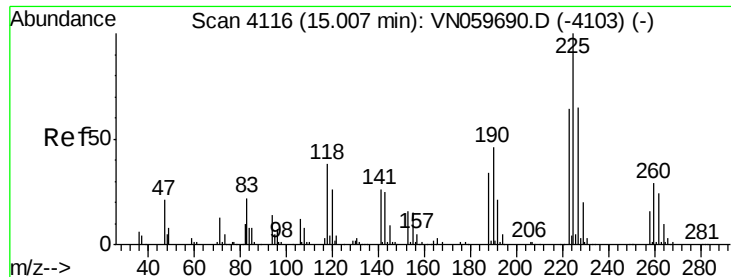
#93
 1,2,4-Trichlorobenzene
 Concen: 0.960 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN060018.D
 Acq: 7 Feb 2020 9:41

Tgt Ion: 180 Resp: 1579
 Ion Ratio Lower Upper
 180 100
 182 79.2 46.9 140.7
 145 22.0 15.0 45.1



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





#94

Hexachlorobutadiene

Concen: 0.443 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN060018.D

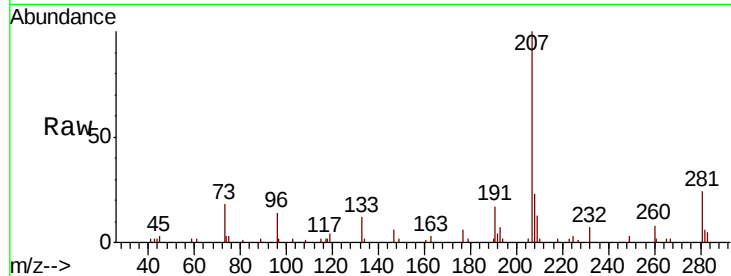
Acq: 7 Feb 2020 9:41

Instrument :

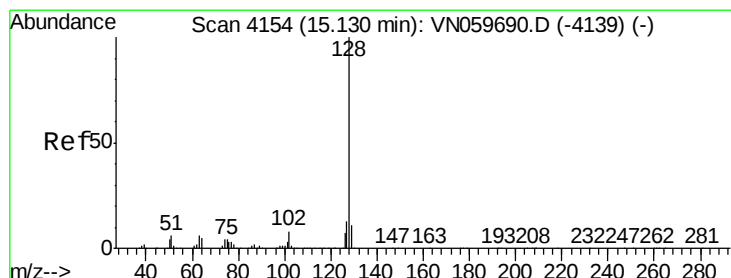
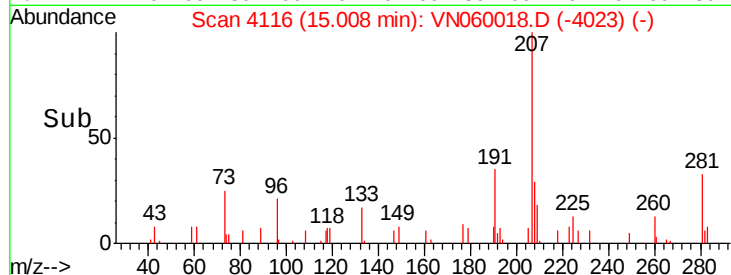
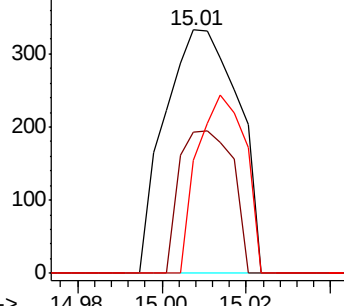
MSVOA_N

ClientSampled :

Tot Ion:	225	Resp:	402
Ion	Ratio	Lower	Upper
225	100		
223	42.5	31.8	95.3
227	47.8	32.1	96.5



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.190 ug/l

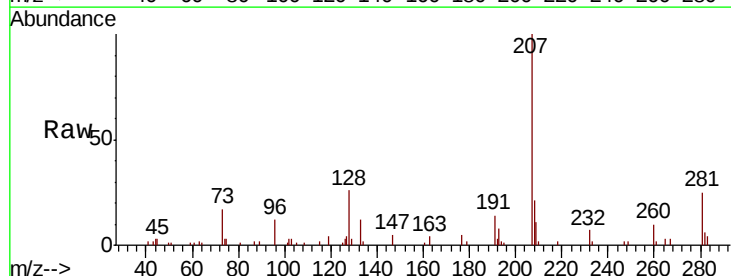
RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

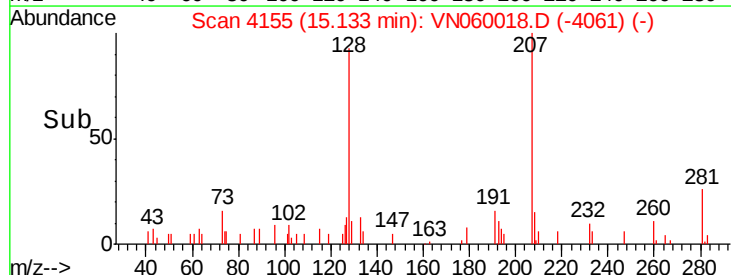
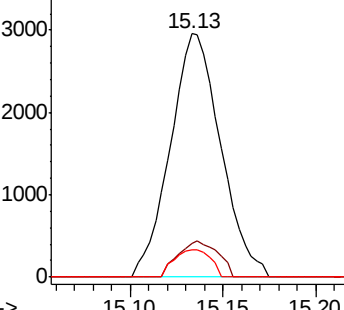
Lab File: VN060018.D

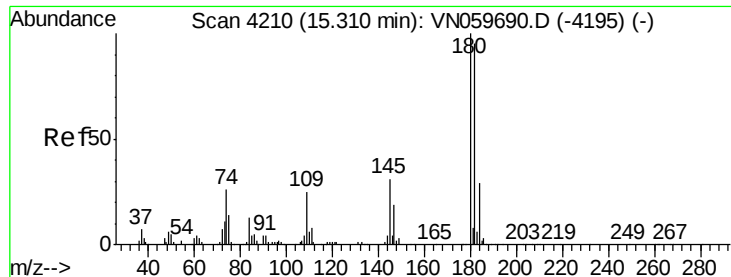
Acq: 7 Feb 2020 9:41

Tgt Ion:	128	Resp:	5568
Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.4	15.6
129	8.1	8.6	12.8#



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

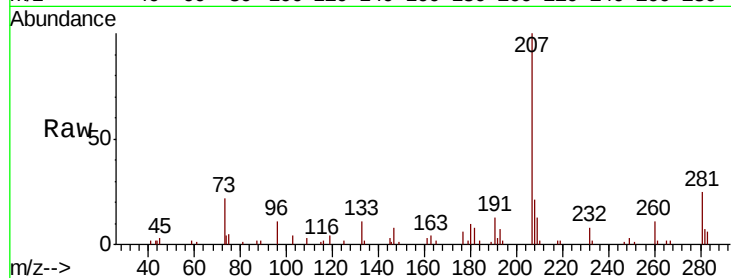




#96
 1,2,3-Trichlorobenzene
 Concen: 1.321 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.01 min
 Lab File: VN060018.D
 Acq: 7 Feb 2020 9:41

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	84.7	47.4	142.3
145	32.5	16.3	48.9



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

