

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090119\
 Data File : VN057630.D
 Acq On : 31 Aug 2019 22:05
 Operator : JC/SP
 Sample : K4517-35
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 31 23:49:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 31 15:54:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	306782	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	535788	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	469944	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	140978	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	258448	37.29	ug/l	0.00
Spiked Amount			Recovery	=	74.58%	
35) Dibromofluoromethane	7.58	113	158819	33.94	ug/l	0.00
Spiked Amount			Recovery	=	67.88%	
50) Toluene-d8	10.08	98	679818	37.84	ug/l	0.00
Spiked Amount			Recovery	=	75.68%	
62) 4-Bromofluorobenzene	12.40	95	206570	30.24	ug/l	0.00
Spiked Amount			Recovery	=	60.48%	

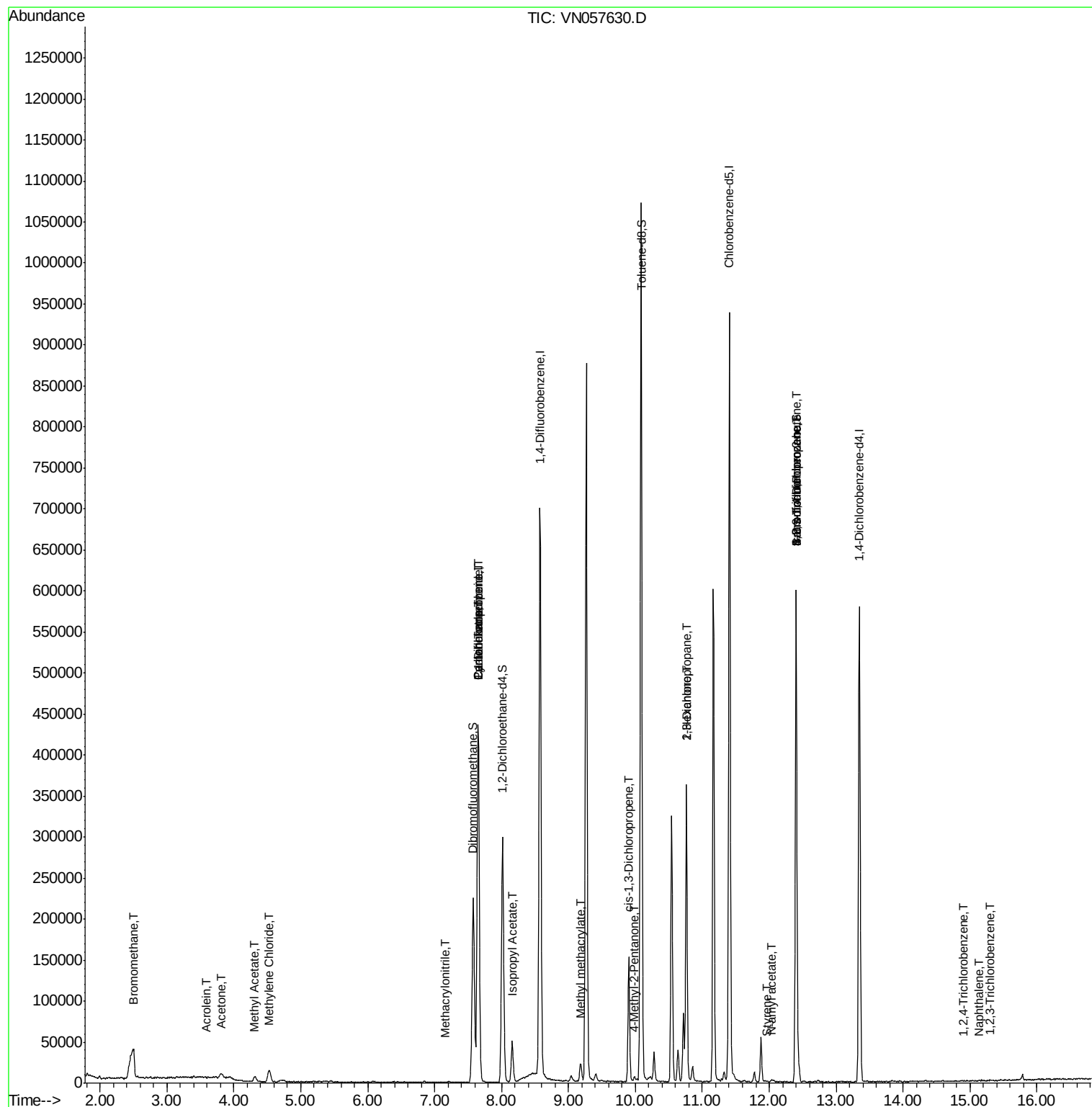
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.51	94	863	0.308	ug/l	90
13) Acrolein	3.59	56	103	0.356	ug/l #	14
16) Acetone	3.80	43	3177	1.636	ug/l	97
18) Methyl Acetate	4.31	43	5514	0.827	ug/l #	55
20) Methylene Chloride	4.53	84	9210	1.915	ug/l	91
31) Cyclohexane	7.65	56	10085	1.098	ug/l #	27
36) 1,1-Dichloropropene	7.65	75	31308	4.407	ug/l #	51
38) Carbon Tetrachloride	7.65	117	35270	5.547	ug/l #	15
41) Methacrylonitrile	7.17	41	30	2.291	ug/l #	21
43) Isopropyl Acetate	8.16	43	57025	4.684	ug/l	99
48) Methyl methacrylate	9.18	41	4222	0.679	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	3809	0.546	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	22754	4.279	ug/l #	65
57) 1,3-Dichloropropane	10.76	76	3369	0.396	ug/l #	43
59) 2-Hexanone	10.76	43	58650	11.446	ug/l #	56
70) Styrene	11.97	104	106	2.590	ug/l #	21
71) Bromoform	12.40	173	978	6.500	ug/l #	1
74) N-amyl acetate	12.03	43	2257	0.336	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	120681	32.543	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	120681	111.551	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	178	8.369	ug/l #	60
95) Naphthalene	15.13	128	239	6.935	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.29	180	60	7.789	ug/l #	1

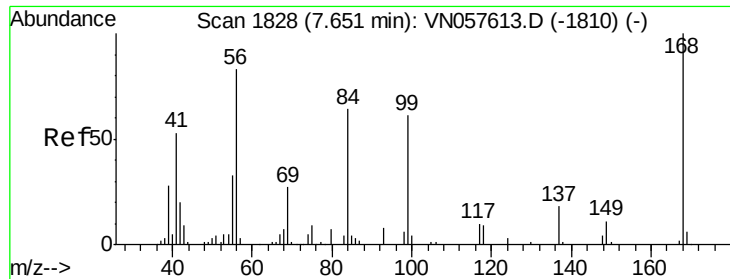
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Aug 31 23:49:23 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N090119W.M
Quant Title : SW846 8260
QLast Update : Sat Aug 31 15:54:32 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: VN057630.D

Acq: 31 Aug 2019 22:05

Instrument :

MSVOA_N

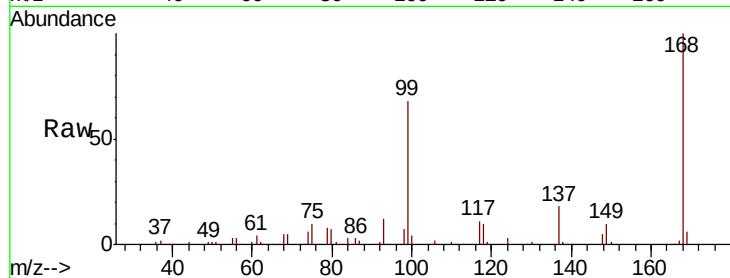
ClientSampled :

Tot Ion:168 Resp: 306782

Ion Ratio Lower Upper

168 100

99 67.5 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): VN057613.D (-1810) (-)

Ion 98.90 (98.60 to 99.60): VN057613.D (-1810) (-)

7.65

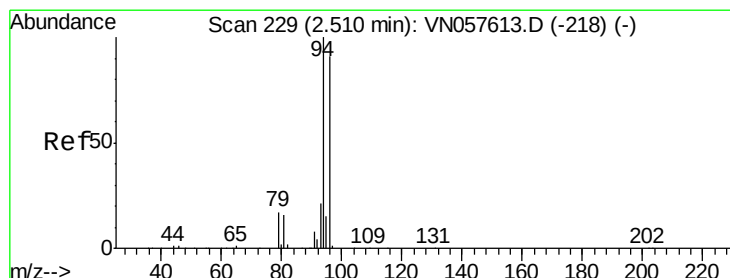
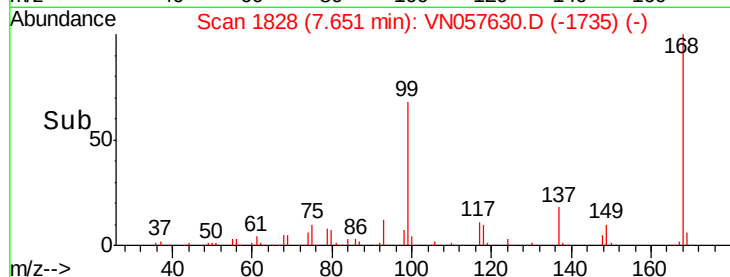
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.308 ug/l

RT: 2.51 min Scan# 229

Delta R.T. 0.00 min

Lab File: VN057630.D

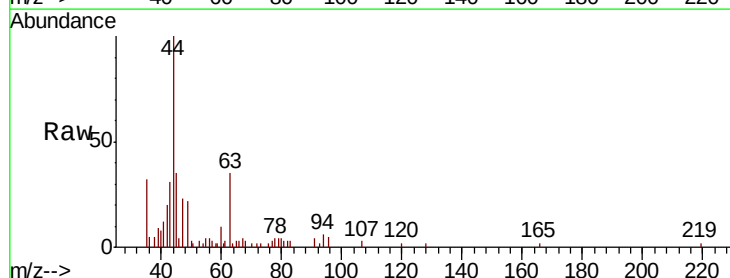
Acq: 31 Aug 2019 22:05

Tgt Ion: 94 Resp: 863

Ion Ratio Lower Upper

94 100

96 81.2 72.9 109.3



Abundance Ion 93.90 (93.60 to 94.60): VN057613.D (-218) (-)

Ion 95.90 (95.60 to 96.60): VN057613.D (-218) (-)

2.51

500

400

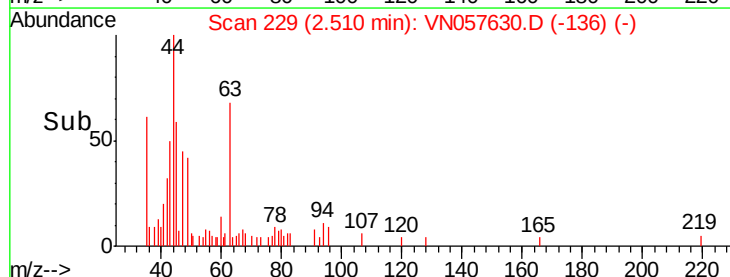
300

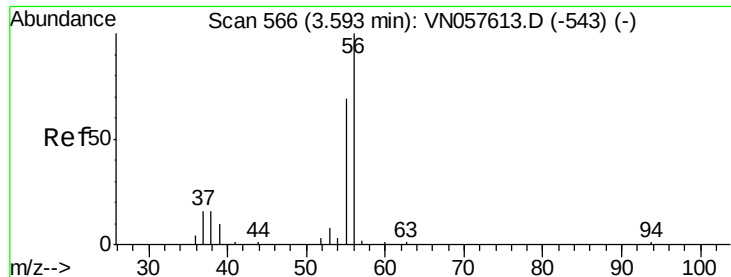
200

100

0

Time-->





#13

Acrolein

Concen: 0.356 ug/l

RT: 3.59 min Scan# 566

Delta R.T. 0.00 min

Lab File: VN057630.D

Acq: 31 Aug 2019 22:05

Instrument :

MSVOA_N

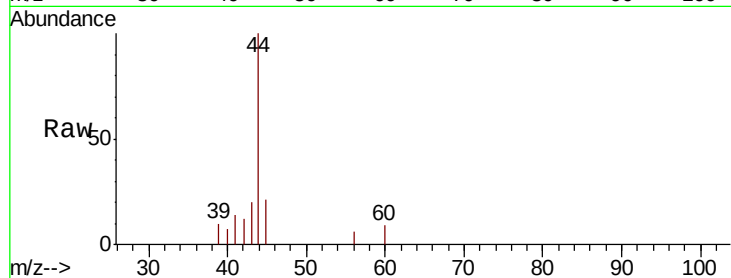
ClientSampled :

Tot Ion: 56 Resp: 103

Ion Ratio Lower Upper

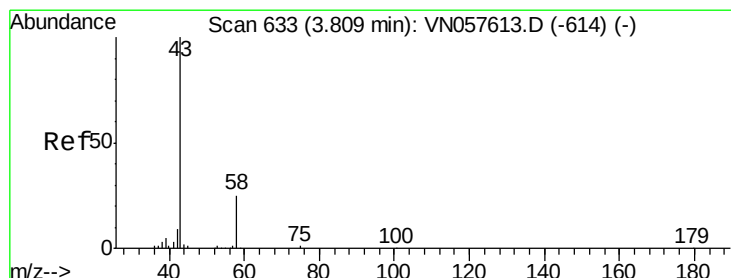
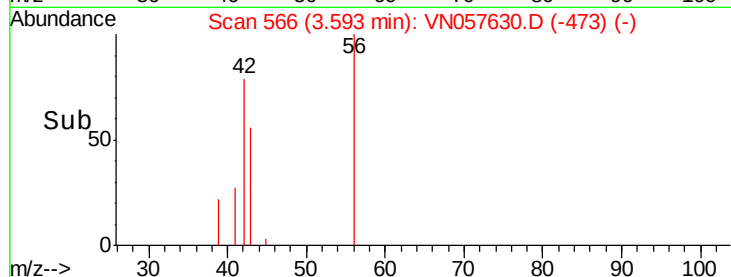
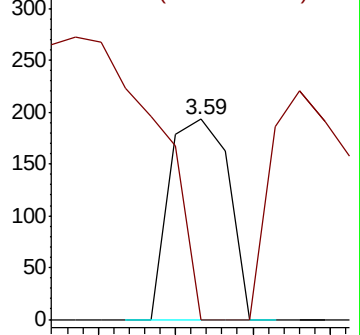
56 100

55 141.7 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 1.636 ug/l

RT: 3.80 min Scan# 630

Delta R.T. -0.01 min

Lab File: VN057630.D

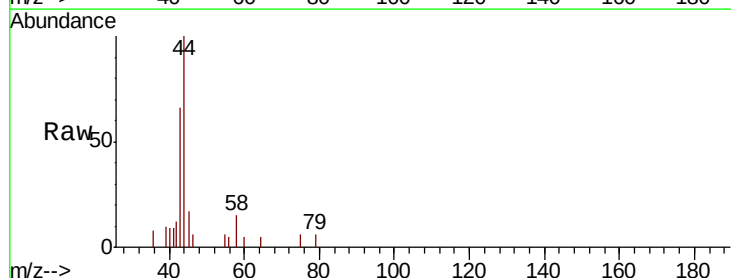
Acq: 31 Aug 2019 22:05

Tgt Ion: 43 Resp: 3177

Ion Ratio Lower Upper

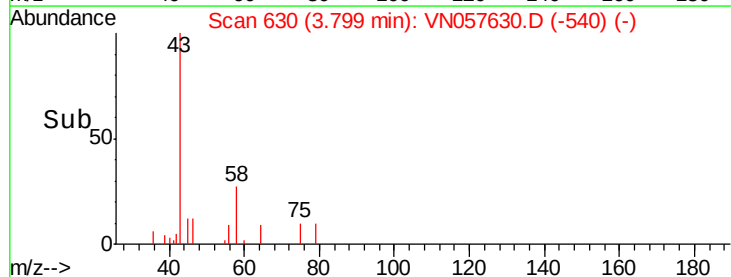
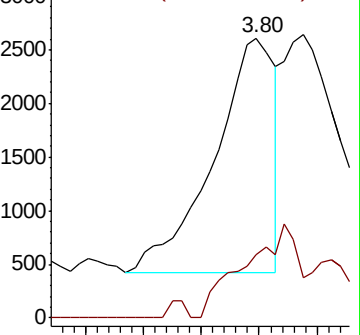
43 100

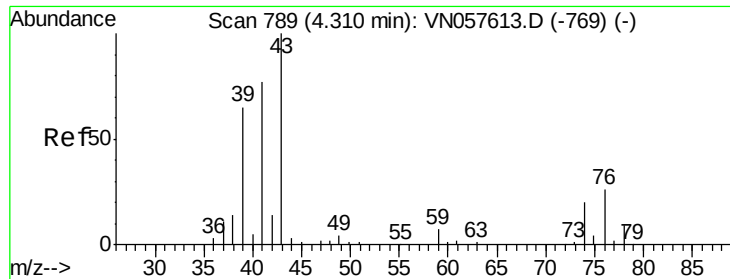
58 26.8 20.0 30.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

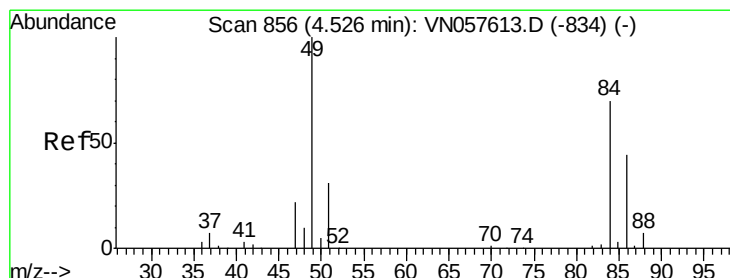
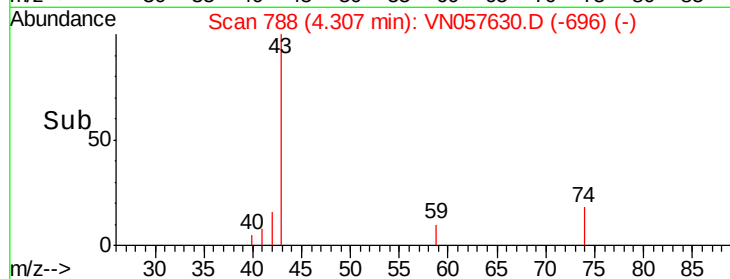
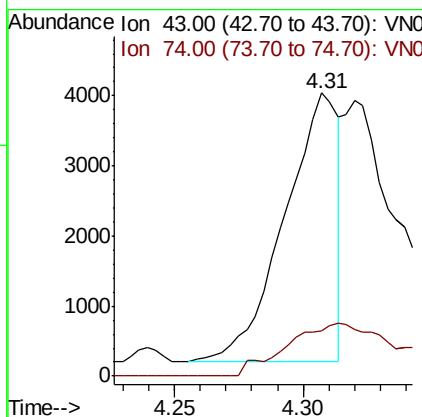
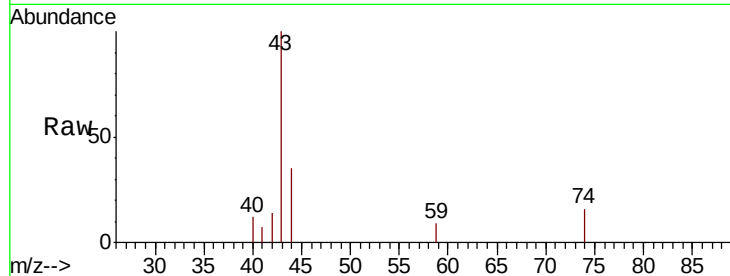




#18
Methyl Acetate
Concen: 0.827 ug/l
RT: 4.31 min Scan# 788
Delta R.T. -0.00 min
Lab File: VN057630.D
Acq: 31 Aug 2019 22:05

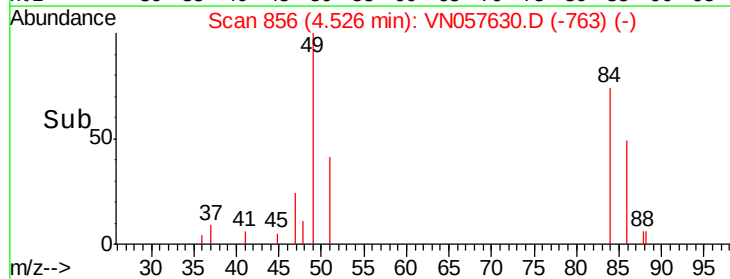
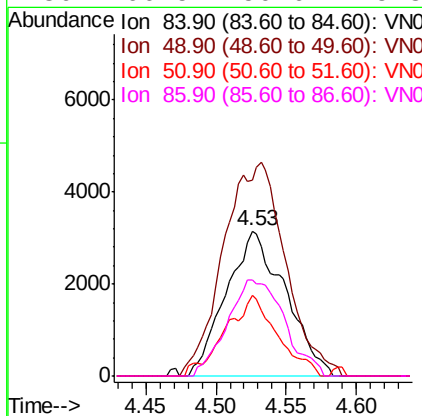
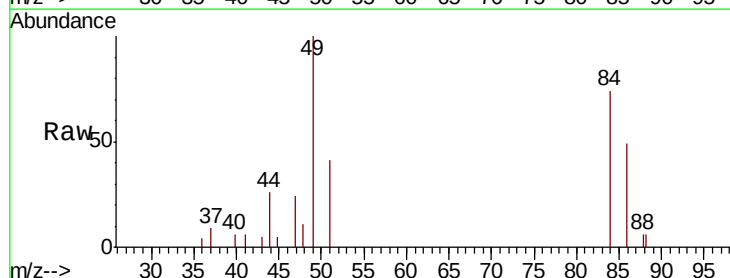
Instrument :
MSVOA_N
ClientSampleId :

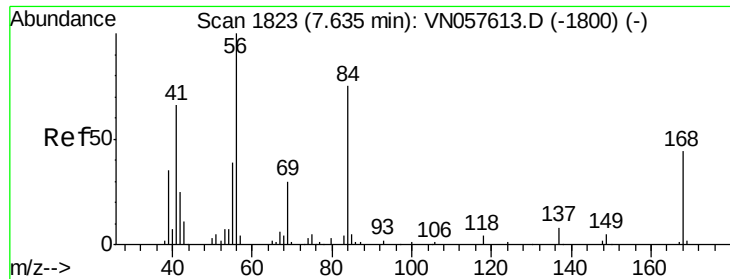
Tot Ion: 43 Resp: 5514
Ion Ratio Lower Upper
43 100
74 40.2 15.7 23.5#



#20
Methylene Chloride
Concen: 1.915 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN057630.D
Acq: 31 Aug 2019 22:05

Tgt Ion: 84 Resp: 9210
Ion Ratio Lower Upper
84 100
49 129.2 113.8 170.6
51 49.8 35.0 52.6
86 66.5 50.6 75.8

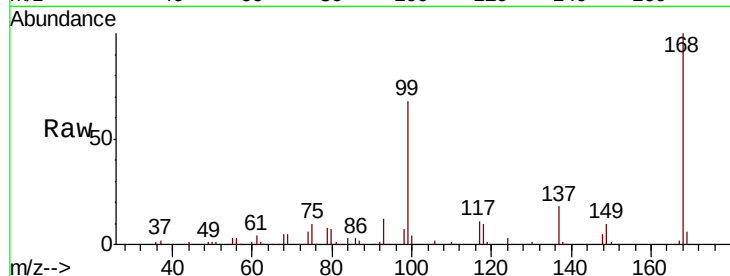




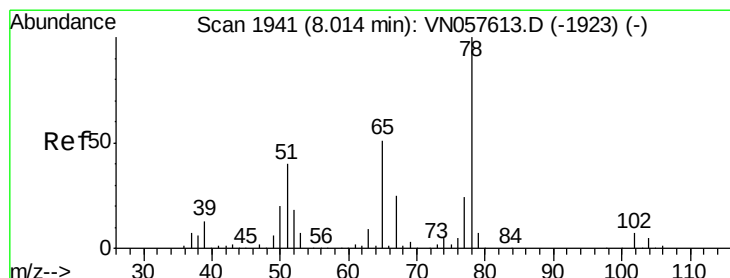
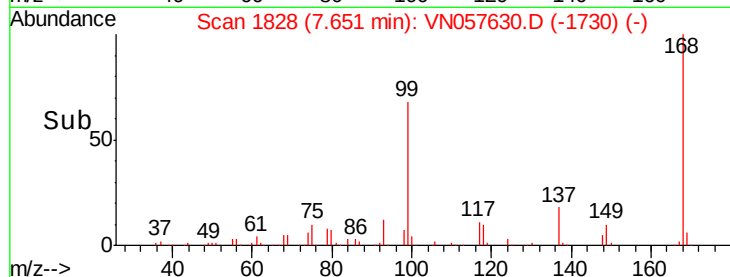
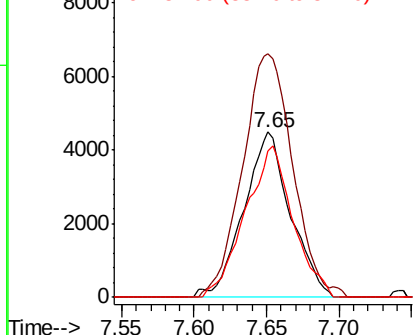
#31
Cyclohexane
Concen: 1.098 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.02 min
Lab File: VN057630.D
Acq: 31 Aug 2019 22:05

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 10085
Ion Ratio Lower Upper
56 100
69 147.2 24.4 36.6#
84 88.3 59.9 89.9

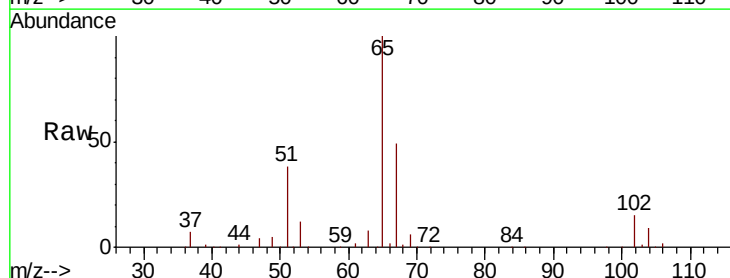


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

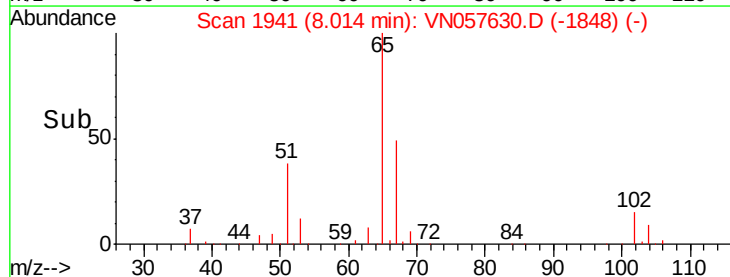
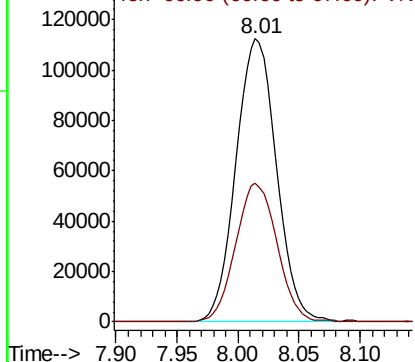


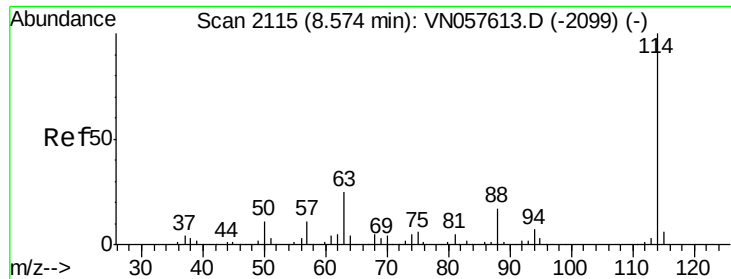
#33
1,2-Dichloroethane-d4
Concen: 37.293 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057630.D
Acq: 31 Aug 2019 22:05

Tgt Ion: 65 Resp: 258448
Ion Ratio Lower Upper
65 100
67 50.1 0.0 102.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

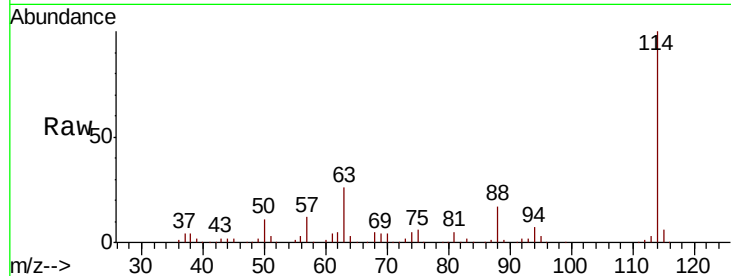




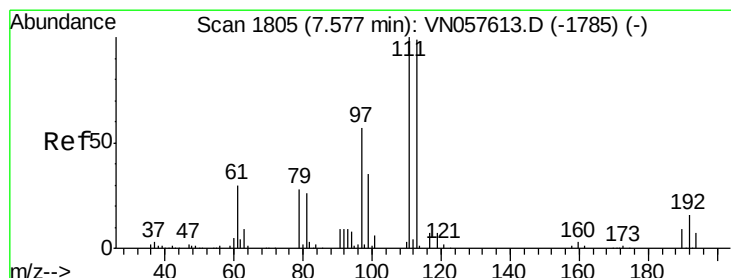
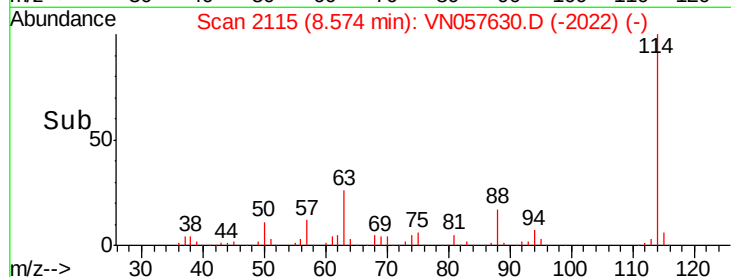
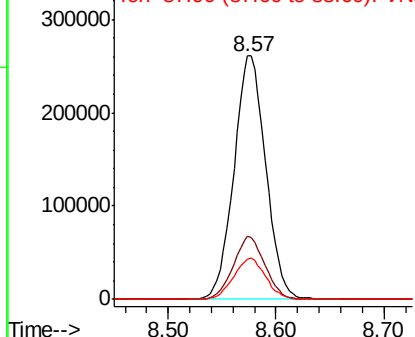
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057630.D
 Acq: 31 Aug 2019 22:05

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 535788
 Ion Ratio Lower Upper
 114 100
 63 25.8 0.0 49.0
 88 16.6 0.0 33.0

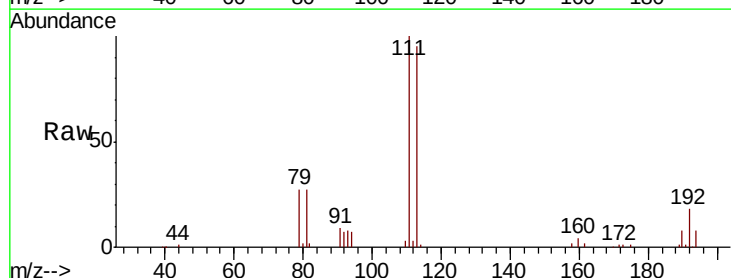


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

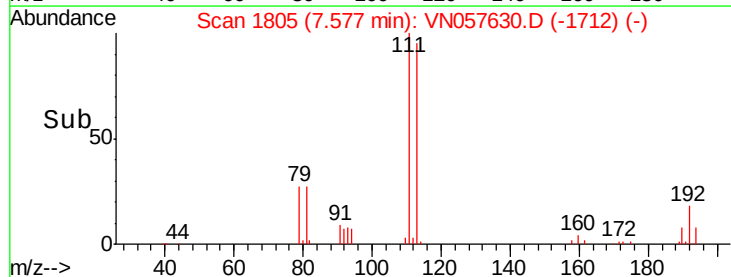
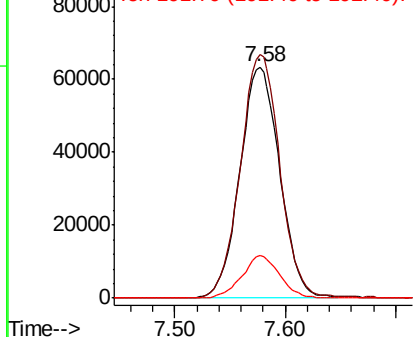


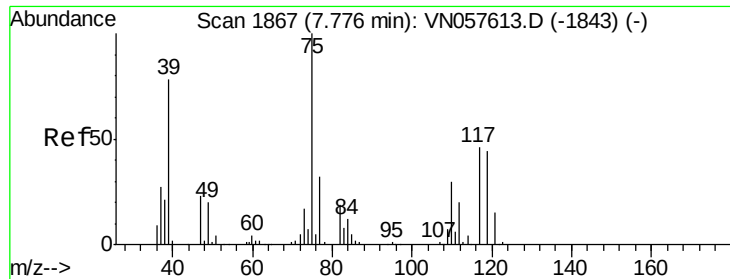
#35
 Dibromofluoromethane
 Concen: 33.943 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057630.D
 Acq: 31 Aug 2019 22:05

Tgt Ion:113 Resp: 158819
 Ion Ratio Lower Upper
 113 100
 111 104.5 81.3 121.9
 192 17.4 13.5 20.3



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

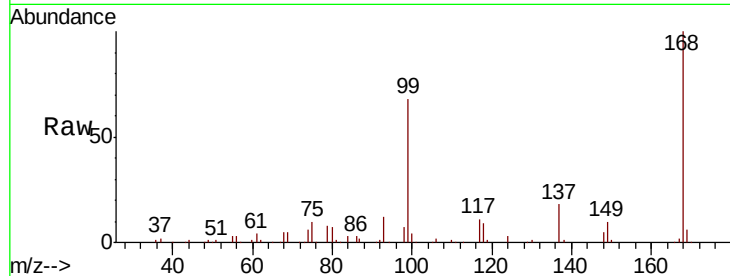




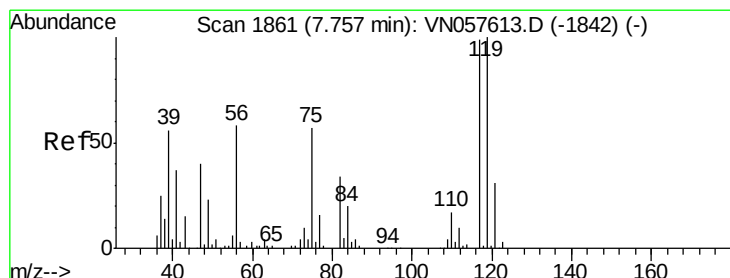
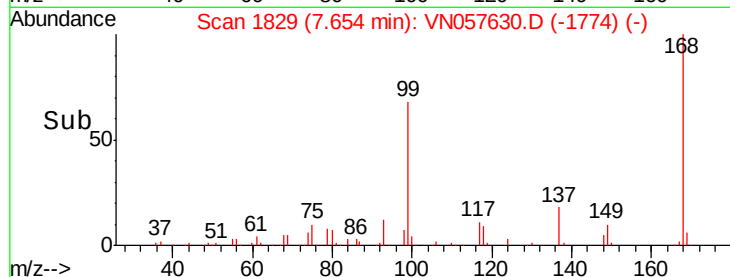
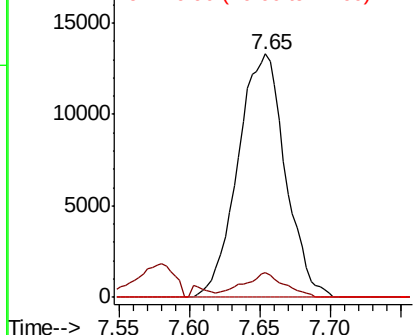
#36
 1,1-Dichloropropene
 Concen: 4.407 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057630.D
 Acq: 31 Aug 2019 22:05

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	31308
Ion Ratio	Lower	Upper	
75	100		
110	8.8	15.6	46.8#
77	0.0	24.9	37.3#

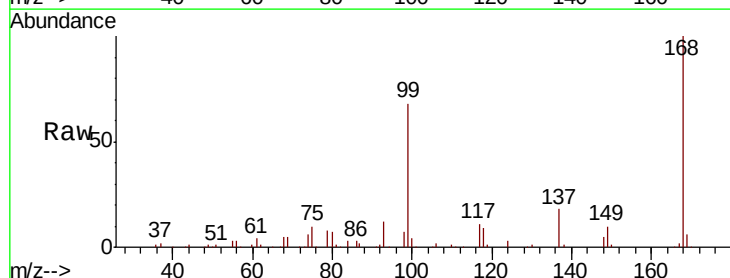


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

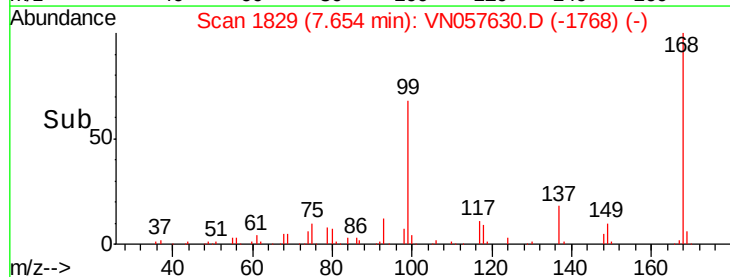
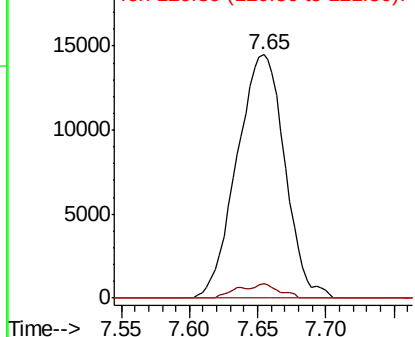


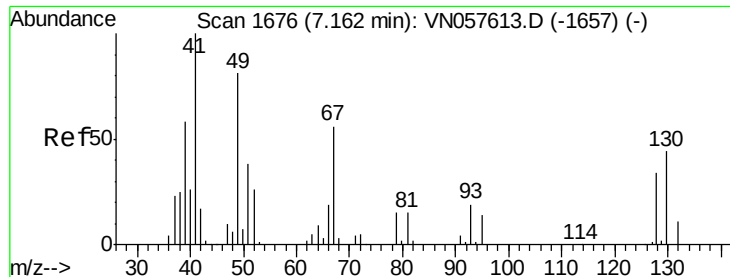
#38
 Carbon Tetrachloride
 Concen: 5.547 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN057630.D
 Acq: 31 Aug 2019 22:05

Tgt Ion	117	Resp	35270
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	5.9	80.6	120.8#
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

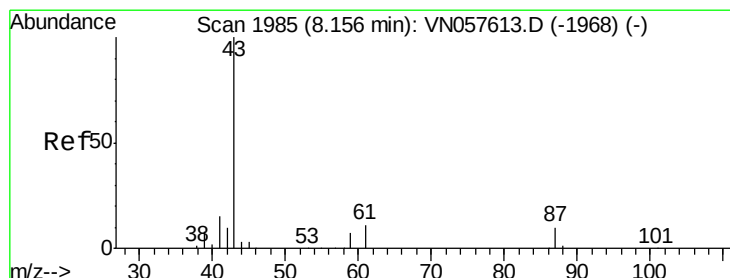
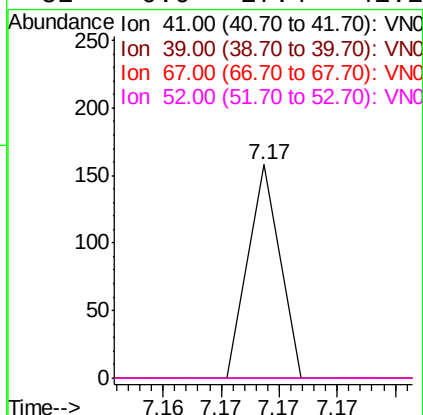
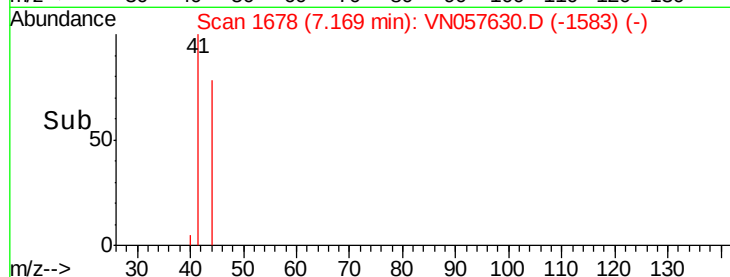
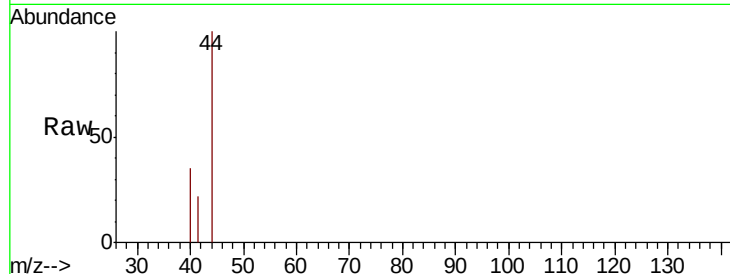




#41
Methacrylonitrile
Concen: 2.291 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.01 min
Lab File: VN057630.D
Acq: 31 Aug 2019 22:05

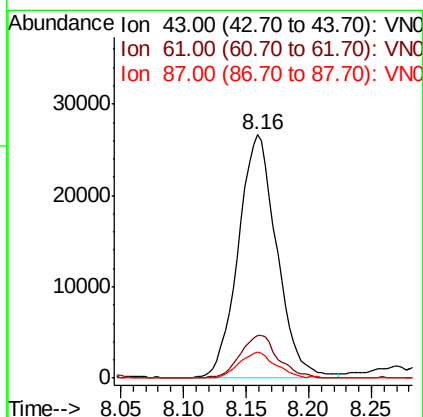
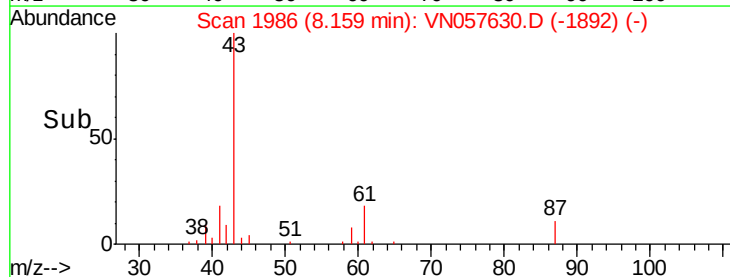
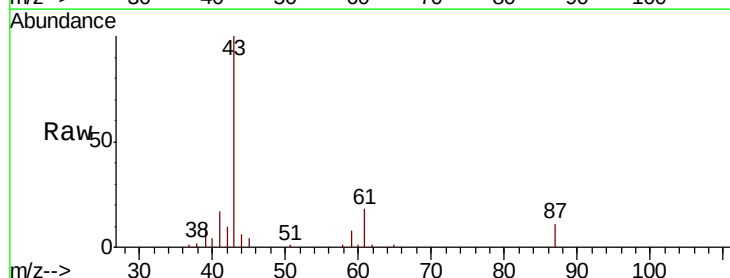
Instrument :
MSVOA_N
ClientSampled :

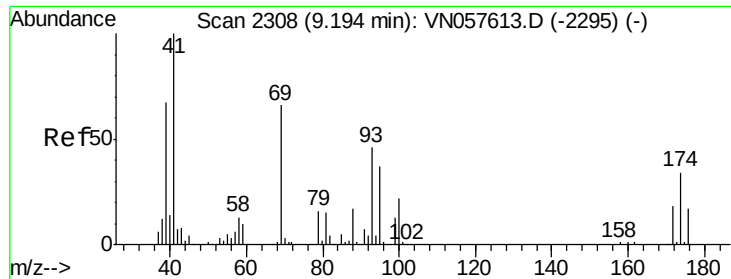
Tot Ion: 41 Resp: 30
Ion Ratio Lower Upper
41 100
39 0.0 50.6 75.8#
67 0.0 56.9 85.3#
52 0.0 27.4 41.2#



#43
Isopropyl Acetate
Concen: 4.684 ug/l
RT: 8.16 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN057630.D
Acq: 31 Aug 2019 22:05

Tgt Ion: 43 Resp: 57025
Ion Ratio Lower Upper
43 100
61 17.2 13.1 19.7
87 10.0 8.1 12.1

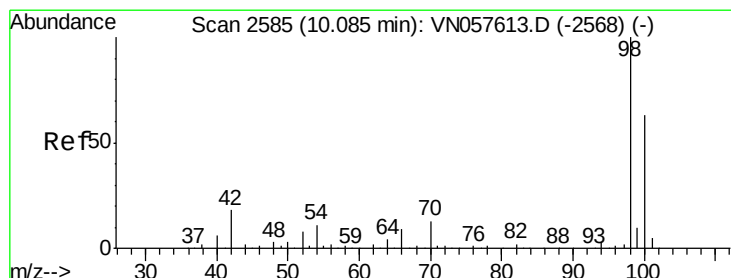
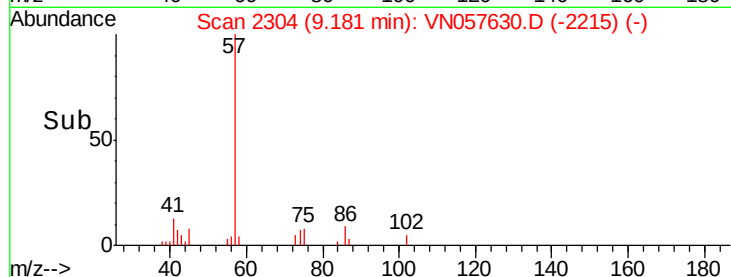
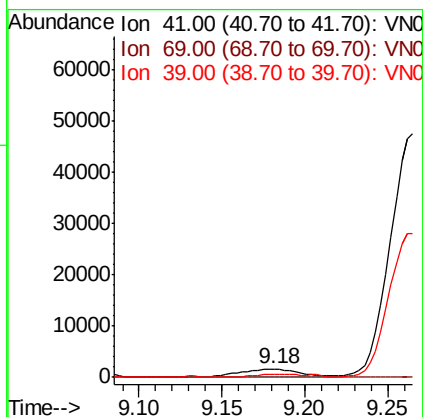
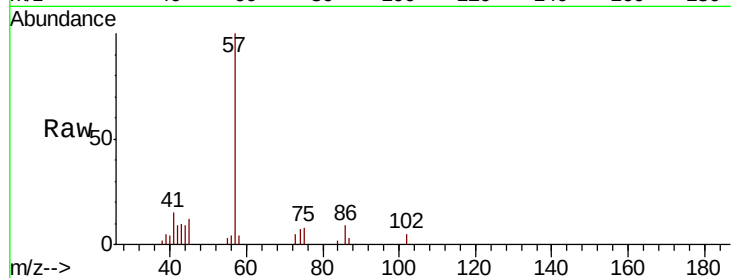




#48
Methvl methacrylate
Concen: 0.679 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.01 min
Lab File: VN057630.D
Acq: 31 Aug 2019 22:05

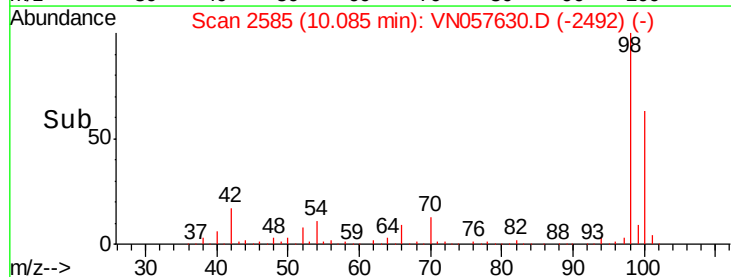
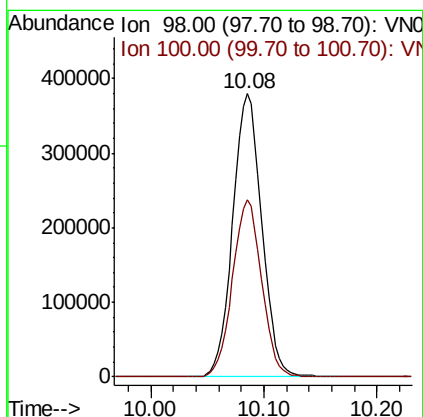
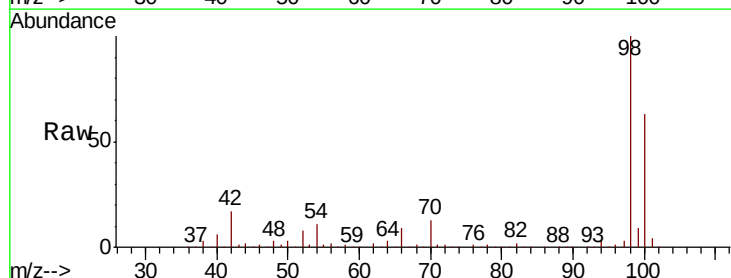
Instrument :
MSVOA_N
ClientSampleId :

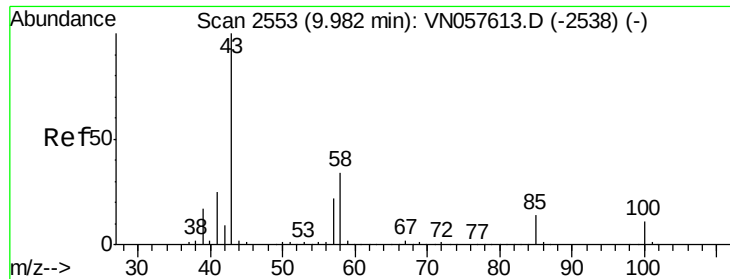
Tot Ion: 41 Resp: 4222
Ion Ratio Lower Upper
41 100
69 0.0 55.1 82.7#
39 0.0 55.4 83.2#



#50
Toluene-d8
Concen: 37.844 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057630.D
Acq: 31 Aug 2019 22:05

Tgt Ion: 98 Resp: 679818
Ion Ratio Lower Upper
98 100
100 62.5 49.8 74.8





#51

4-Methyl-2-Pentanone

Concen: 0.546 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN057630.D

Acq: 31 Aug 2019 22:05

Instrument :

MSVOA_N

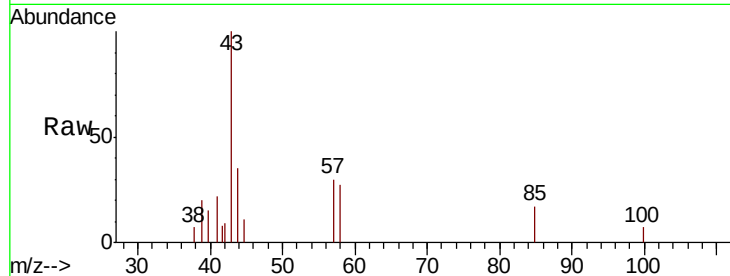
ClientSampled :

Tot Ion: 43 Resp: 3809

Ion Ratio Lower Upper

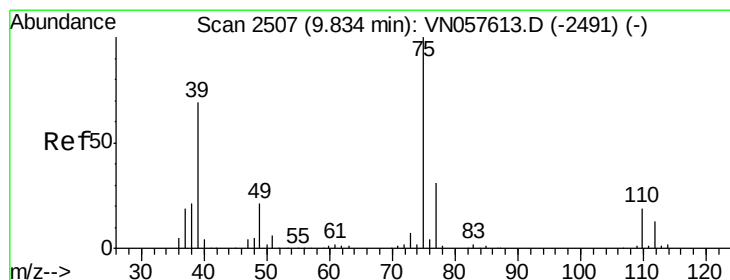
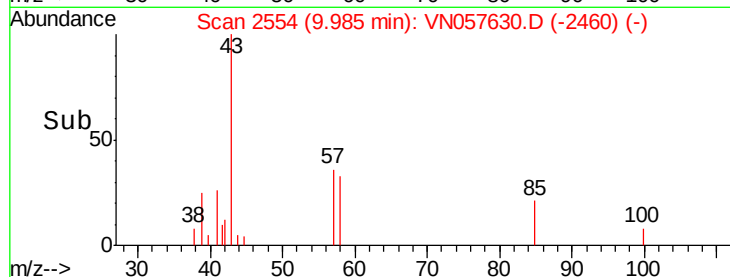
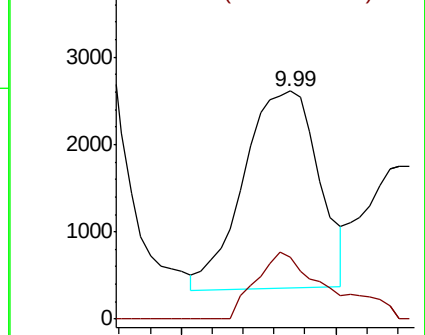
43 100

58 33.1 26.9 40.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 4.279 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057630.D

Acq: 31 Aug 2019 22:05

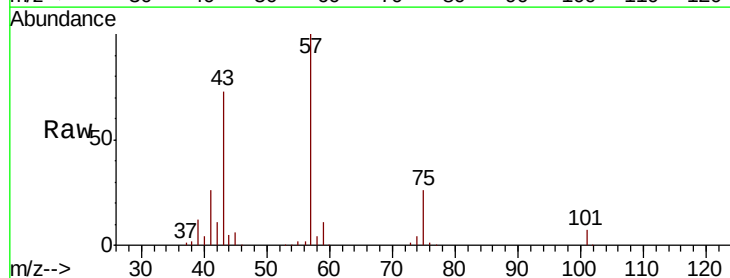
Tgt Ion: 75 Resp: 22754

Ion Ratio Lower Upper

75 100

77 1.2 24.8 37.2#

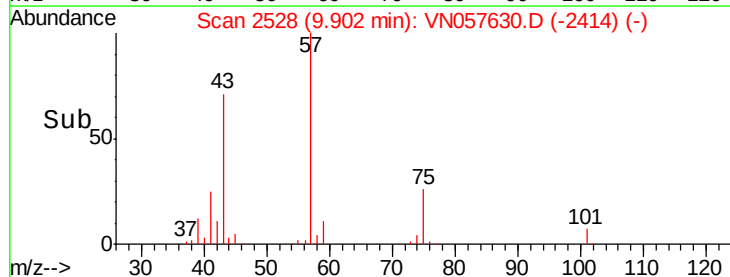
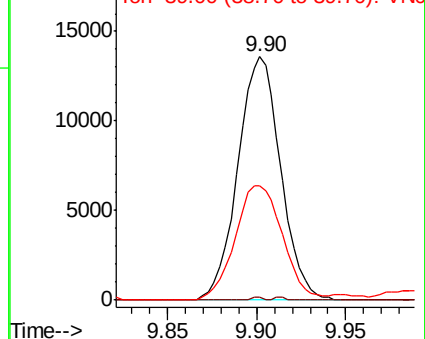
39 46.9 55.0 82.4#

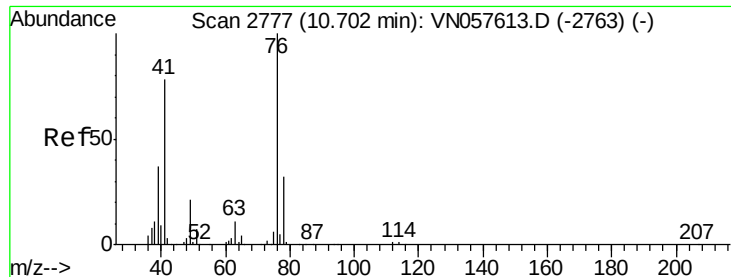


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

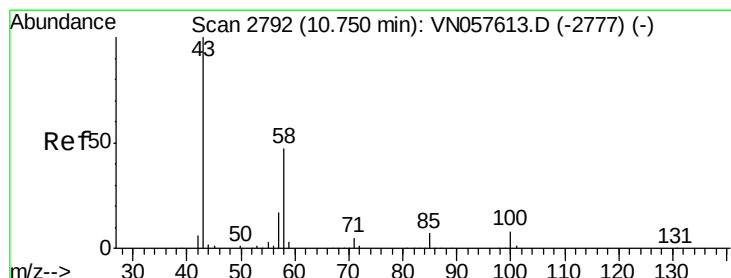
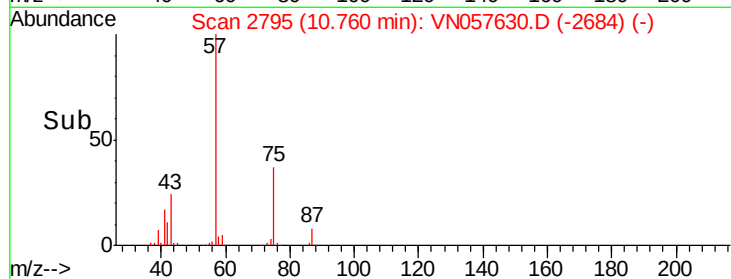
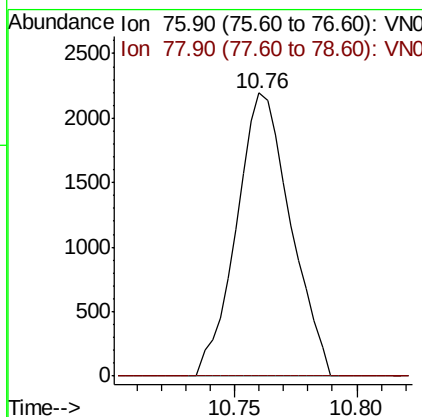
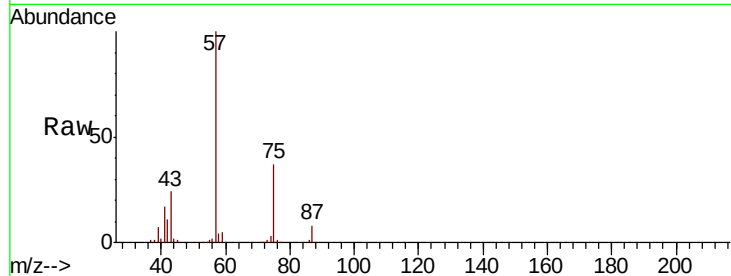




#57
 1,3-Dichloropropane
 Concen: 0.396 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.06 min
 Lab File: VN057630.D
 Acq: 31 Aug 2019 22:05

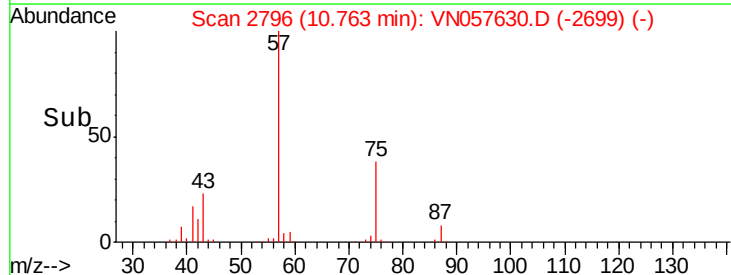
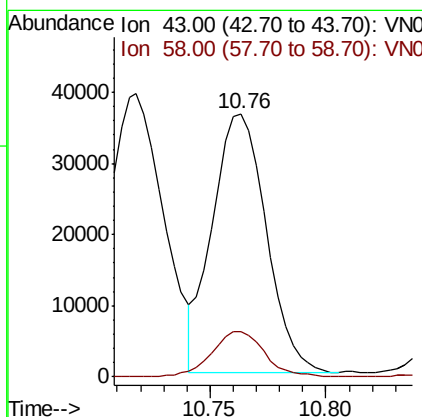
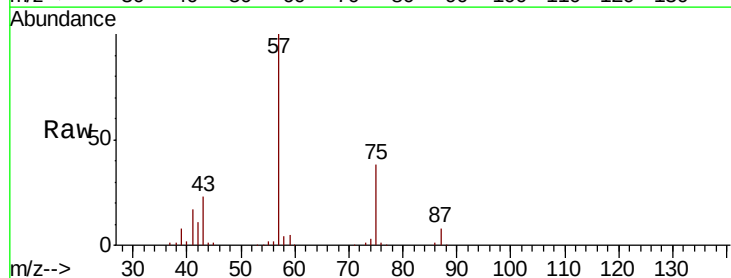
Instrument :
 MSVOA_N
 ClientSampled :

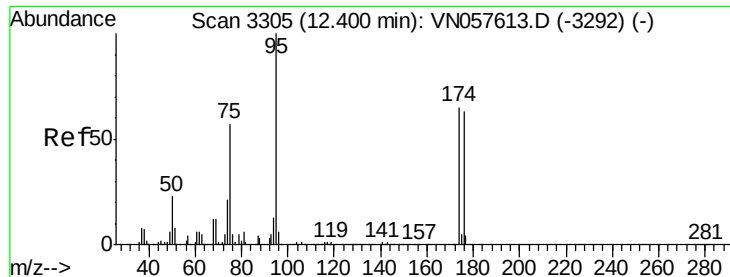
Tot Ion: 76 Resp: 3369
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 11.446 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057630.D
 Acq: 31 Aug 2019 22:05

Tgt Ion: 43 Resp: 58650
 Ion Ratio Lower Upper
 43 100
 58 17.4 23.5 70.5#





#62

4-Bromofluorobenzene

Concen: 30.241 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN057630.D

Acq: 31 Aug 2019 22:05

Instrument :

MSVOA_N

ClientSampleId :

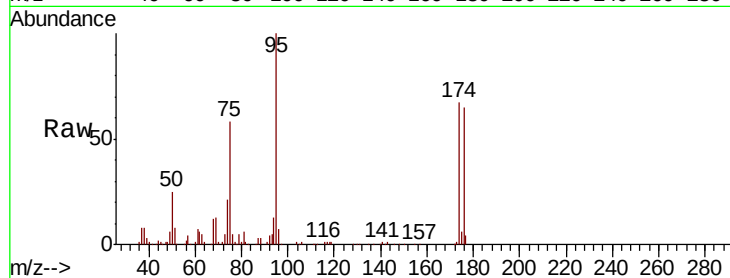
Tot Ion: 95 Resp: 206570

Ion Ratio Lower Upper

95 100

174 69.0 0.0 134.8

176 65.7 0.0 131.6



Abundance Ion 94.90 (94.60 to 95.60): VN057613.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN057613.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN057613.D (-3292) (-)

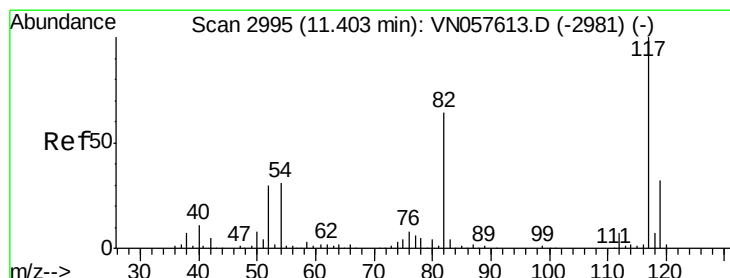
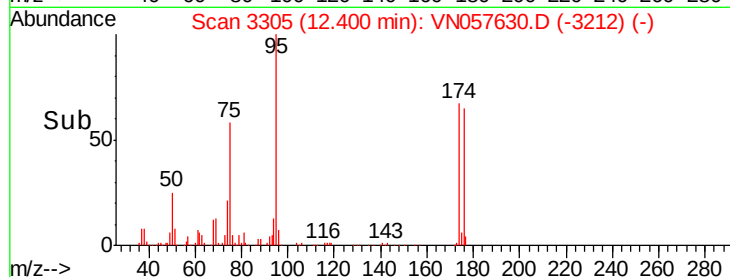
12.40

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057630.D

Acq: 31 Aug 2019 22:05

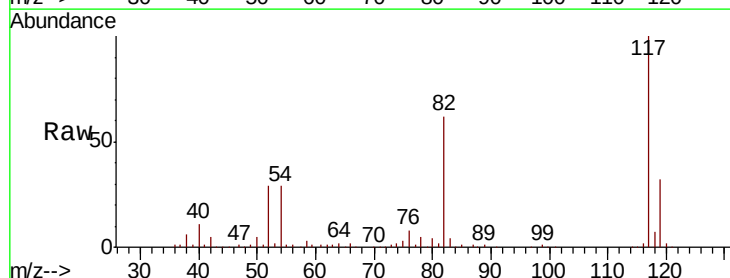
Tgt Ion: 117 Resp: 469944

Ion Ratio Lower Upper

117 100

82 62.5 51.6 77.4

119 32.2 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN057613.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057613.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057613.D (-2981) (-)

11.41

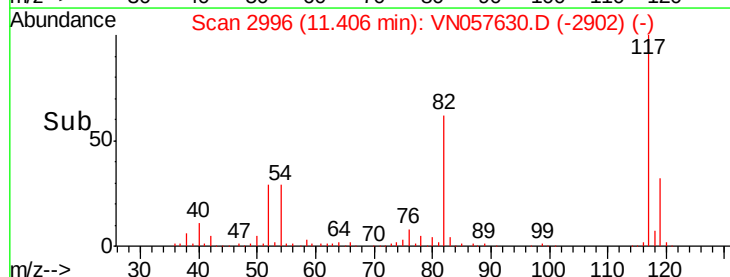
300000

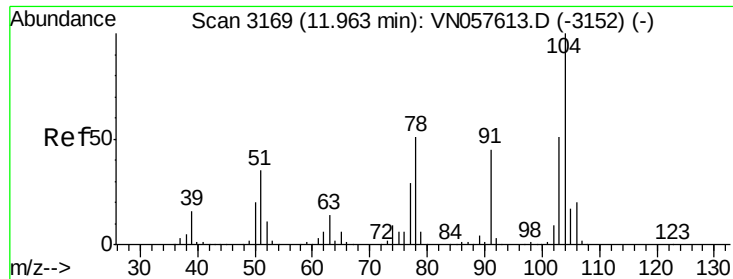
200000

100000

0

Time--> 11.30 11.40 11.50

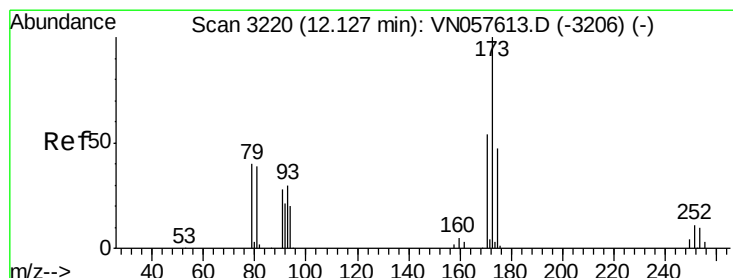
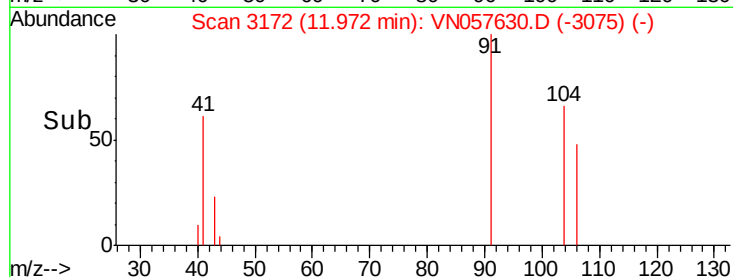
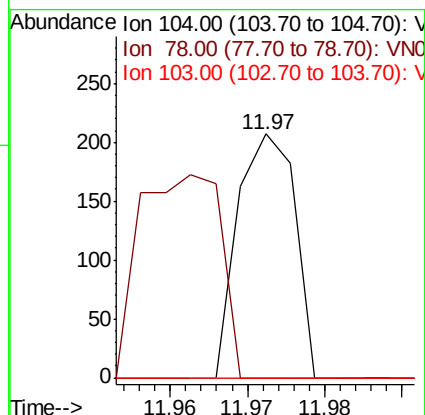
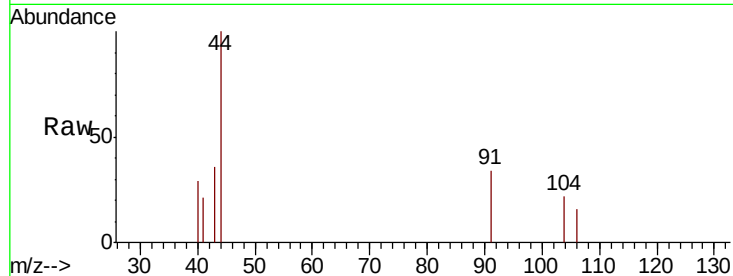




#70
Stvrene
Concen: 2.590 ug/l
RT: 11.97 min Scan# 3172
Delta R.T. 0.01 min
Lab File: VN057630.D
Acq: 31 Aug 2019 22:05

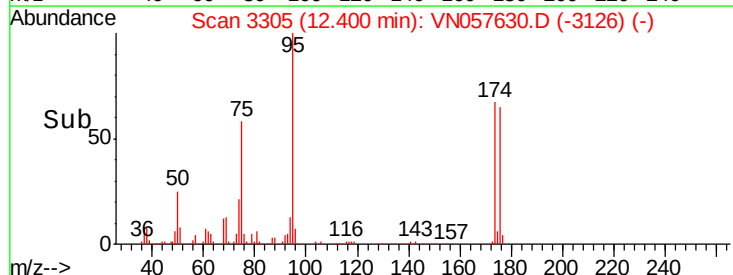
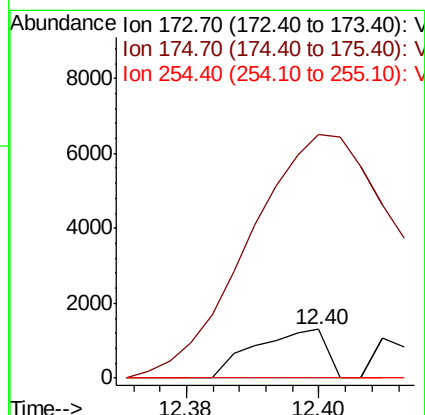
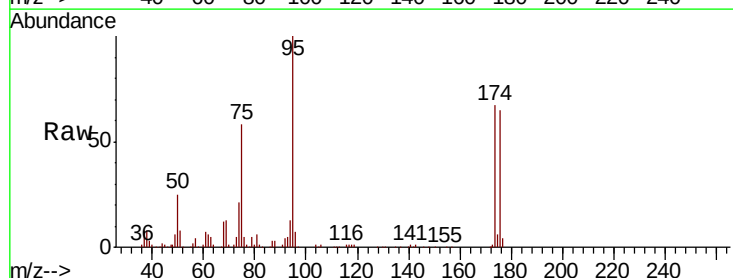
Instrument :
MSVOA_N
ClientSampled :

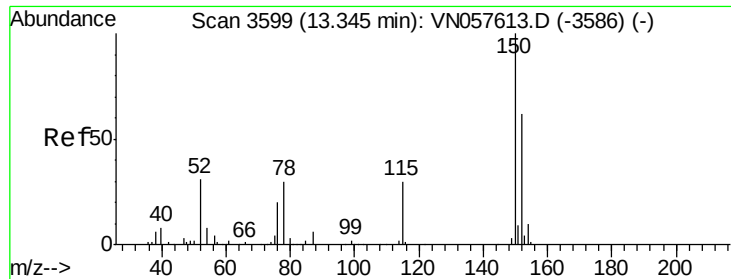
Tot Ion:104 Resp: 106
Ion Ratio Lower Upper
104 100
78 118.9 46.6 70.0#
103 0.0 44.7 67.1#



#71
Bromoform
Concen: 6.500 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN057630.D
Acq: 31 Aug 2019 22:05

Tgt Ion:173 Resp: 978
Ion Ratio Lower Upper
173 100
175 951.7 24.4 73.4#
254 0.0 0.0 0.0



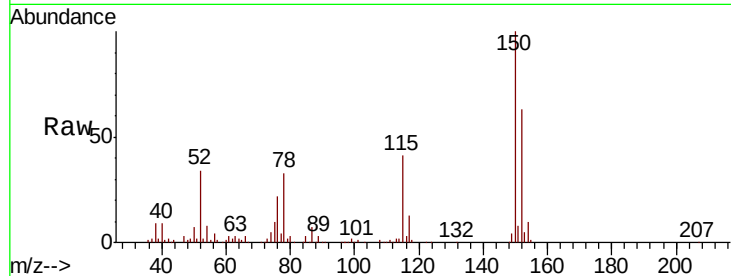


#72

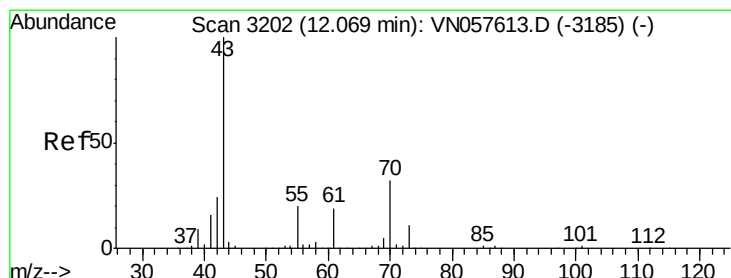
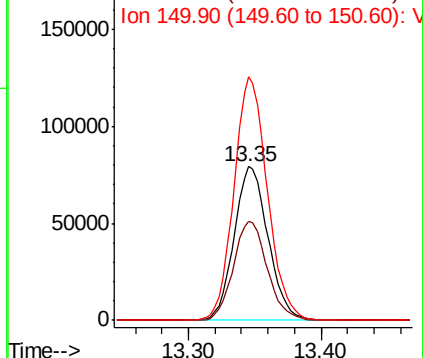
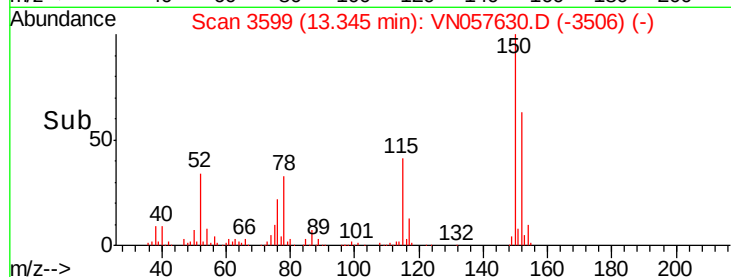
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN057630.D
Acq: 31 Aug 2019 22:05

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 140978
Ion Ratio Lower Upper
152 100
115 64.1 33.2 99.6
150 155.6 0.0 365.2



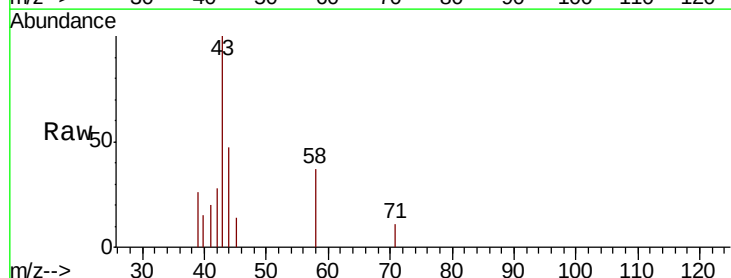
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



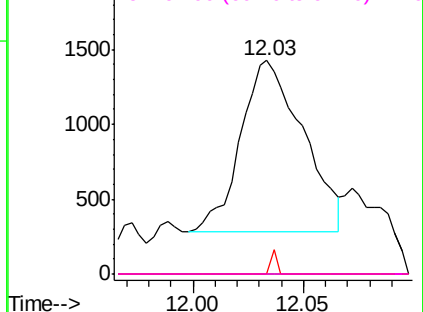
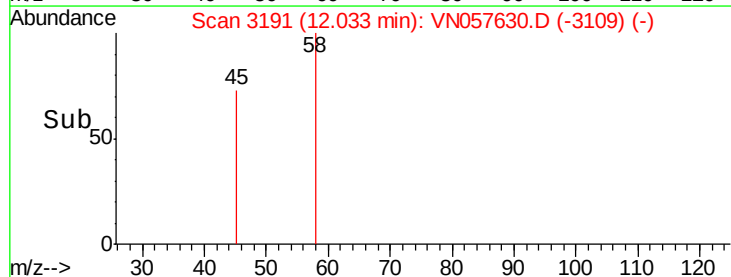
#74

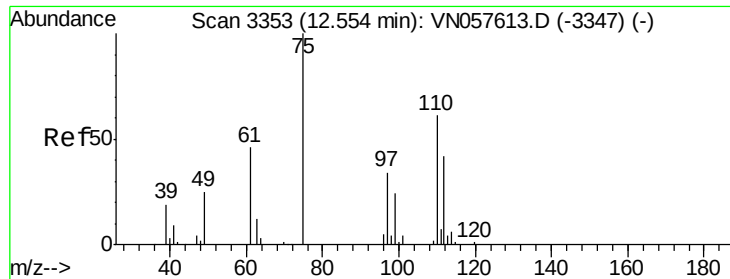
N-ethyl acetate
Concen: 0.336 ug/l
RT: 12.03 min Scan# 3191
Delta R.T. -0.04 min
Lab File: VN057630.D
Acq: 31 Aug 2019 22:05

Tgt Ion: 43 Resp: 2257
Ion Ratio Lower Upper
43 100
70 0.0 26.9 40.3#
55 1.4 16.8 25.2#
61 0.0 15.1 22.7#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V

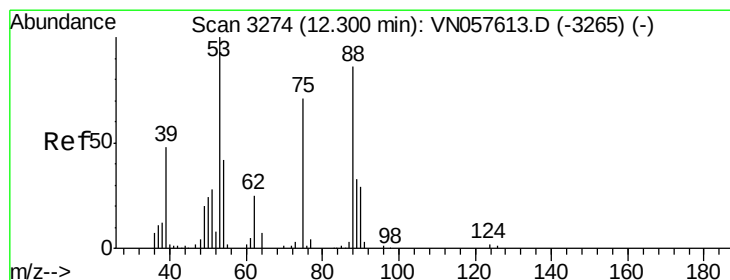
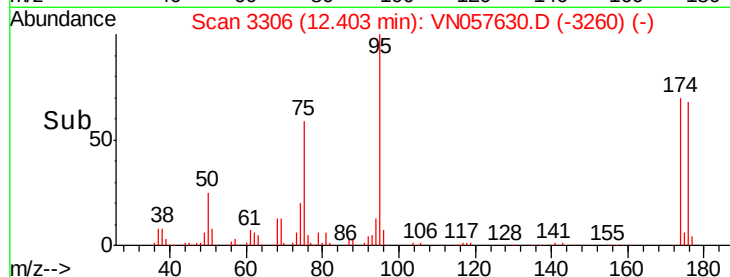
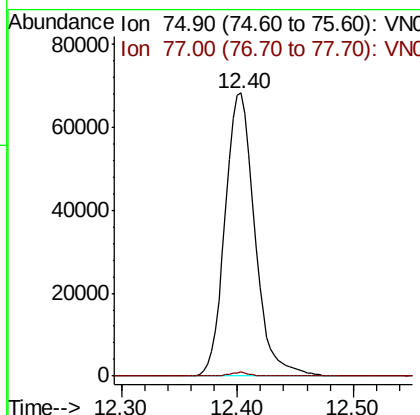
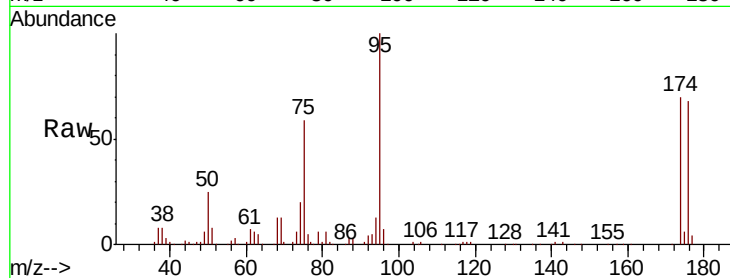




#76
 1,2,3-Trichloropropane
 Concen: 32.543 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN057630.D
 Acq: 31 Aug 2019 22:05

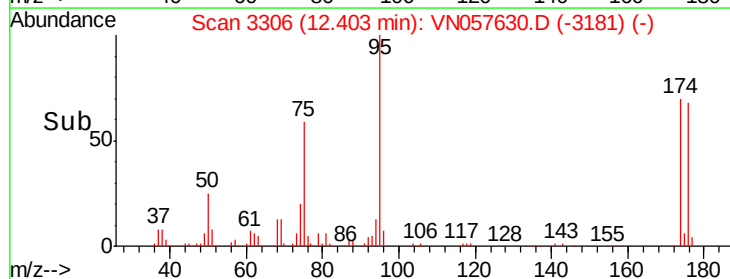
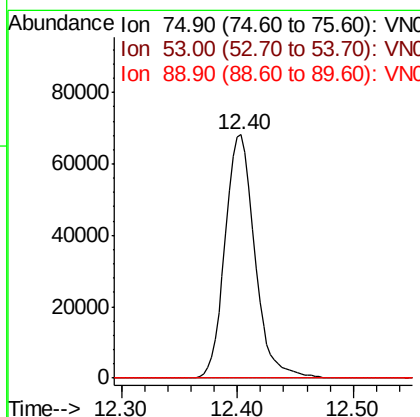
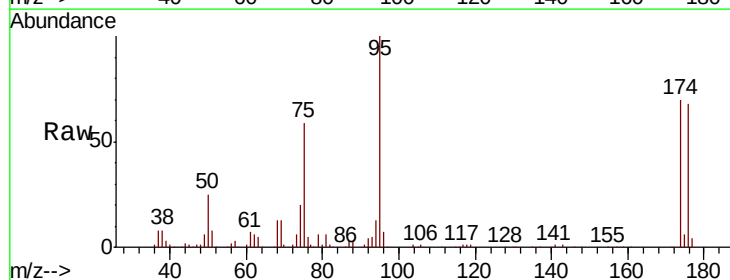
Instrument :
 MSVOA_N
 ClientSampled :

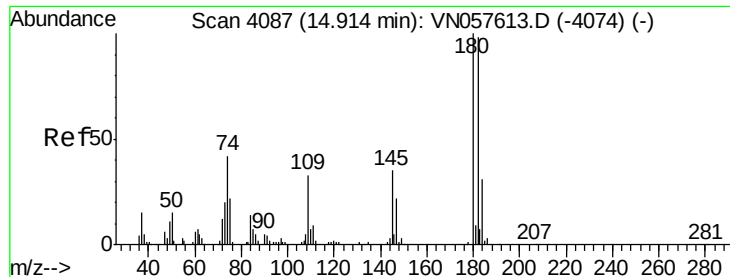
Tot Ion: 75 Resp: 120681
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.551 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057630.D
 Acq: 31 Aug 2019 22:05

Tgt Ion: 75 Resp: 120681
 Ion Ratio Lower Upper
 75 100
 53 0.0 111.0 166.6#
 89 0.0 38.3 57.5#





#93

1,2,4-Trichlorobenzene

Concen: 8.369 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.01 min

Lab File: VN057630.D

Acq: 31 Aug 2019 22:05

Instrument :

MSVOA_N

ClientSampleId :

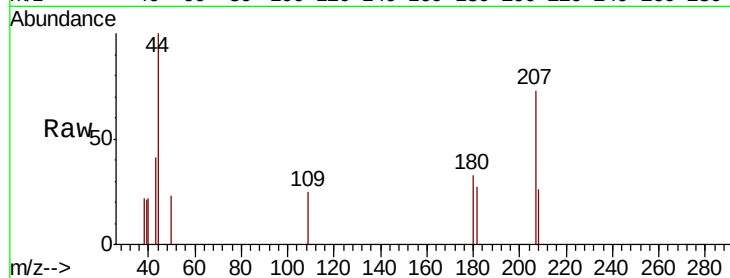
Tot Ion:180 Resp: 178

Ion Ratio Lower Upper

180 100

182 63.5 47.8 143.3

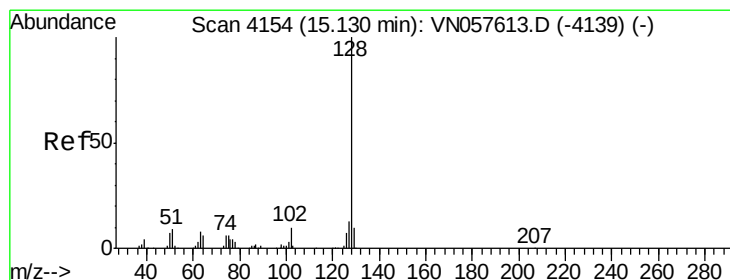
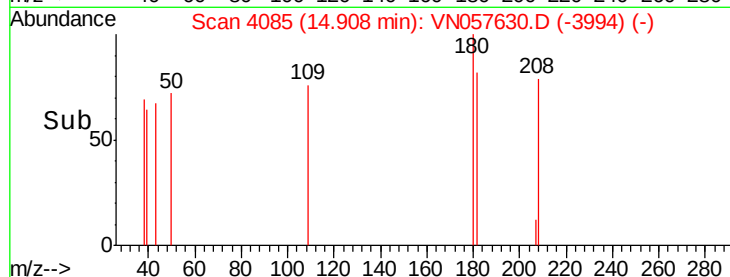
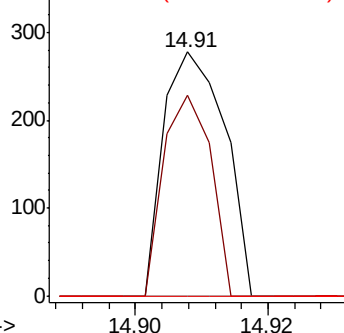
145 0.0 16.9 50.7#



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



#95

Naphthalene

Concen: 6.935 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN057630.D

Acq: 31 Aug 2019 22:05

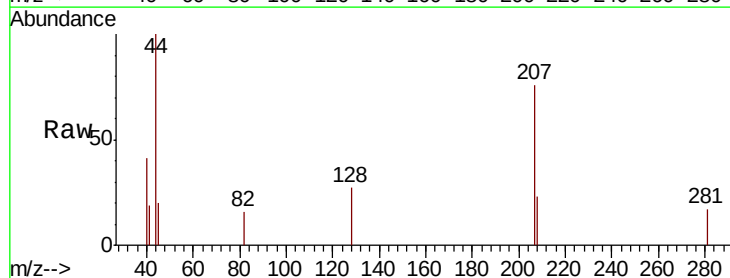
Tgt Ion:128 Resp: 239

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

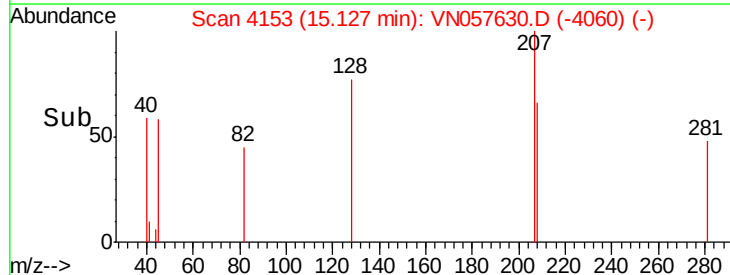
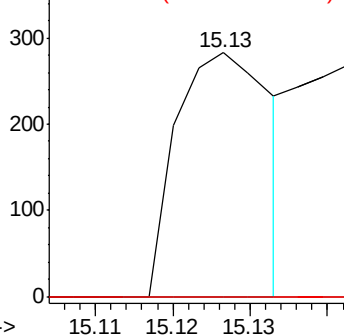
129 0.0 8.6 12.8#

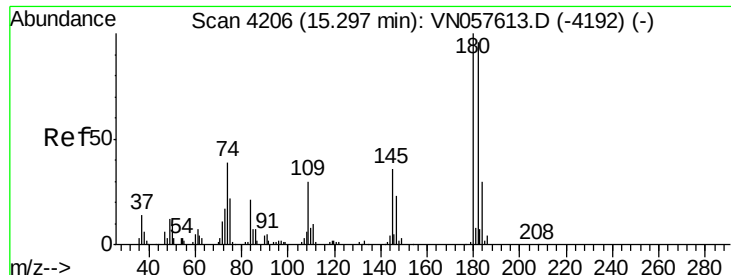


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 7.789 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. -0.00 min

Lab File: VN057630.D

Acq: 31 Aug 2019 22:05

Instrument :

MSVOA_N

ClientSampleId :

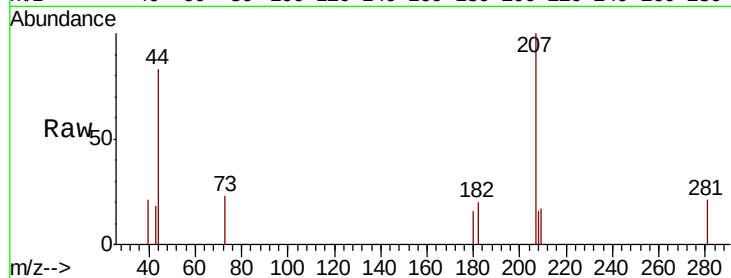
Tot Ion:180 Resp: 60

Ion Ratio Lower Upper

180 100

182 460.0 46.3 138.9#

145 0.0 17.8 53.3#



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

