

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032420\
 Data File : VN060681.D
 Acq On : 24 Mar 2020 18:38
 Operator : JC/MD
 Sample : L2006-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

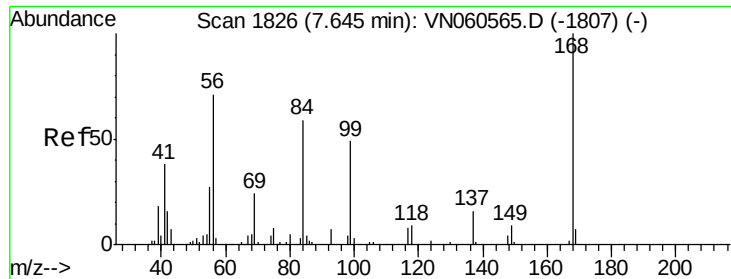
Quant Time: Mar 25 03:57:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.85	168	167476	50.00	ug/l	0.21
34) 1,4-Difluorobenzene	8.71	114	286097	50.00	ug/l	0.14
63) Chlorobenzene-d5	11.43	117	255406	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	13.35	152	109616	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.20	65	107408	46.72	ug/l	0.19
Spiked Amount			Recovery	=	93.44%	
35) Dibromofluoromethane	7.79	113	86565	50.04	ug/l	0.23
Spiked Amount			Recovery	=	100.08%	
50) Toluene-d8	10.15	98	343322	48.59	ug/l	0.07
Spiked Amount			Recovery	=	97.18%	
62) 4-Bromofluorobenzene	12.41	95	118587	45.79	ug/l	0.02
Spiked Amount			Recovery	=	91.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.61	94	411	0.402	ug/l #	3
18) Methyl Acetate	4.33	43	20533	8.958	ug/l #	54
29) Tetrahydrofuran	7.44	42	262	0.281	ug/l #	35
31) Cyclohexane	7.85	56	3757	1.015	ug/l #	1
36) 1,1-Dichloropropene	7.85	75	13394	4.835	ug/l #	49
38) Carbon Tetrachloride	7.85	117	16349	6.585	ug/l #	16
43) Isopropyl Acetate	8.31	43	36206	7.334	ug/l #	89
45) 1,2-Dichloropropane	9.35	63	517	0.234	ug/l #	43
48) Methyl methacrylate	9.35	41	49130	22.353	ug/l #	45
51) 4-Methyl-2-Pentanone	10.04	43	28881	10.281	ug/l	98
53) t-1,3-Dichloropropene	10.80	75	58992	18.525	ug/l #	44
54) cis-1,3-Dichloropropene	9.96	75	13939	3.990	ug/l #	64
57) 1,3-Dichloropropane	10.80	76	2119	0.628	ug/l #	42
59) 2-Hexanone	10.88	43	10429	5.154	ug/l #	32
68) m/p-Xylenes	11.64	106	988	0.282	ug/l	74
69) o-Xylene	11.97	106	690	0.207	ug/l	88
74) N-amyl acetate	12.04	43	3722	0.979	ug/l #	48
76) 1,2,3-Trichloropropane	12.41	75	61172	25.862	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	1484	0.213	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.41	75	61172	66.422	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.05	105	5217	0.755	ug/l	91
86) p-Isopropyltoluene	13.29	119	21868	3.125	ug/l	98
90) Hexachloroethane	13.95	117	258	0.254	ug/l #	8
95) Naphthalene	15.13	128	7821	1.267	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.85 min Scan# 1891

Delta R.T. 0.21 min

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Instrument :

MSVOA_N

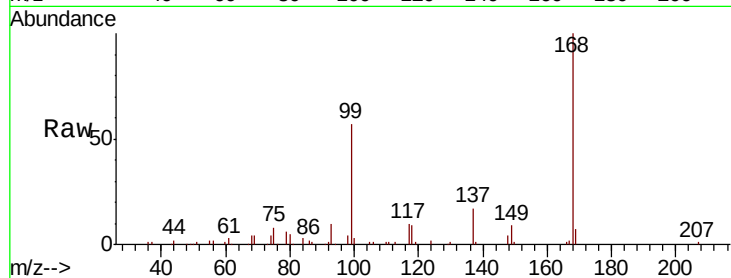
ClientSampleId :

Tot Ion:168 Resp: 167476

Ion Ratio Lower Upper

168 100

99 56.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.85

80000

60000

40000

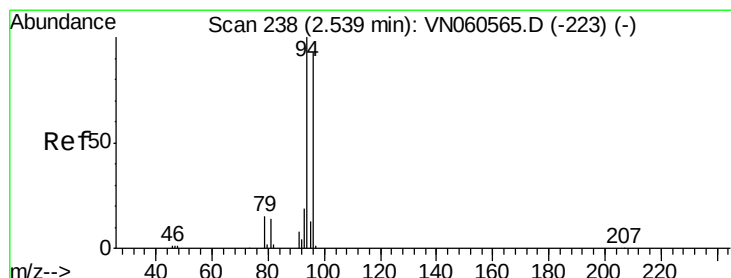
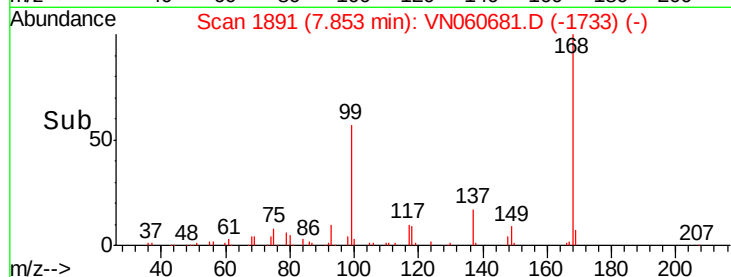
20000

0

Time-->

7.80

7.90



#5

Bromomethane

Concen: 0.402 ug/l

RT: 2.61 min Scan# 260

Delta R.T. 0.07 min

Lab File: VN060681.D

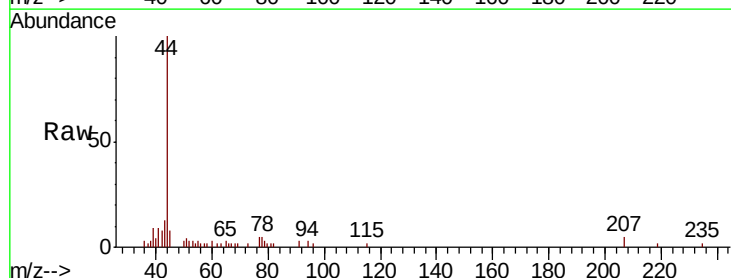
Acq: 24 Mar 2020 18:38

Tgt Ion: 94 Resp: 411

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VN0

300

250

200

150

100

50

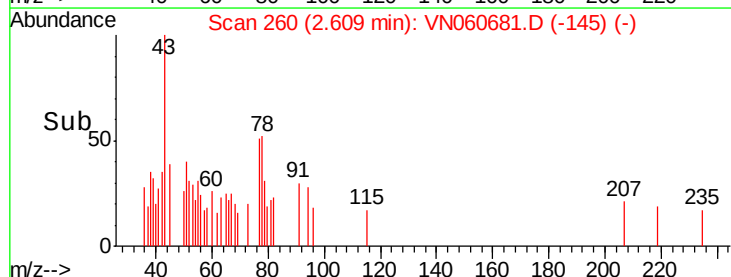
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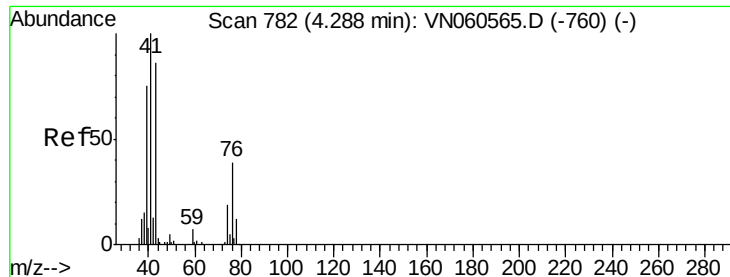
Time-->

2.60

2.62

2.64

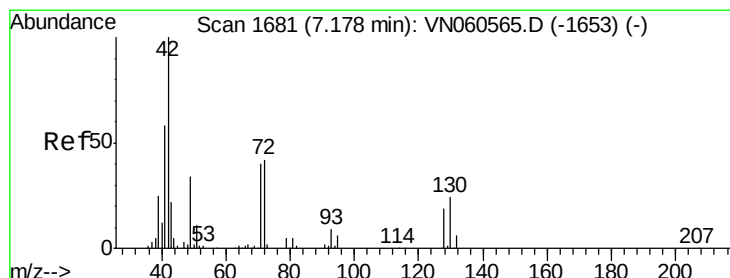
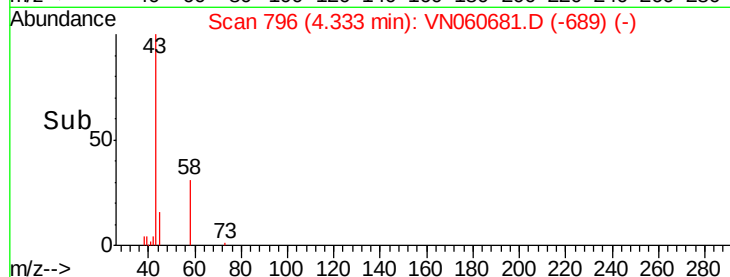
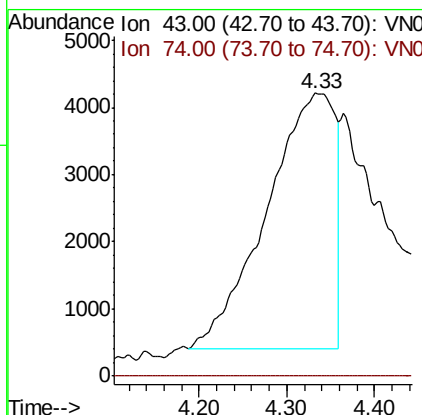
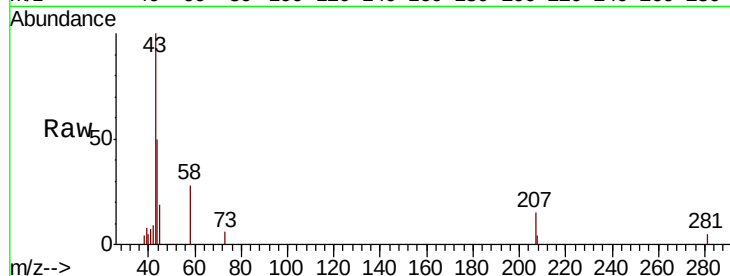




#18
Methvl Acetate
Concen: 8.958 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.04 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

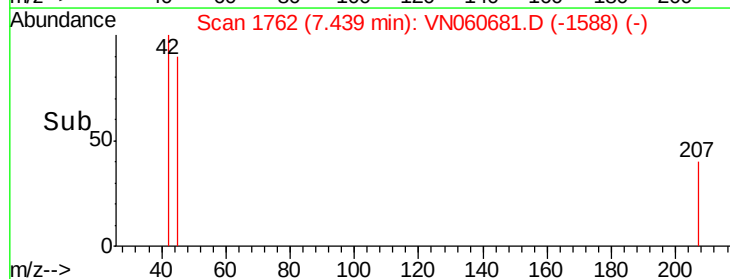
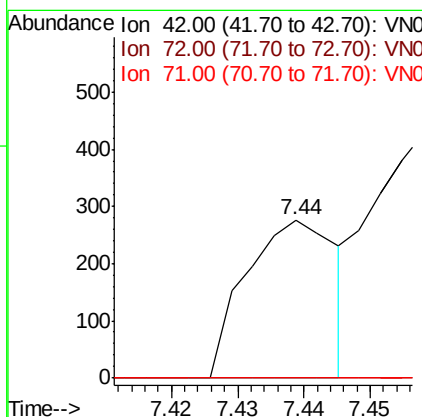
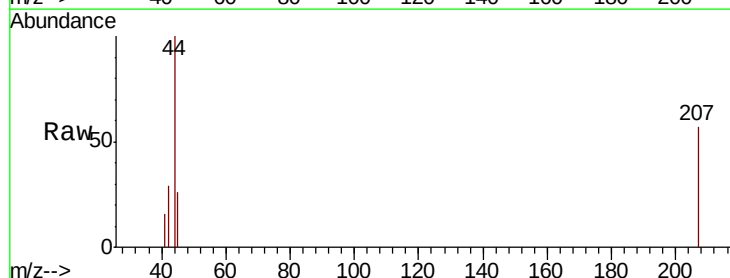
Instrument :
MSVOA_N
ClientSampleId :

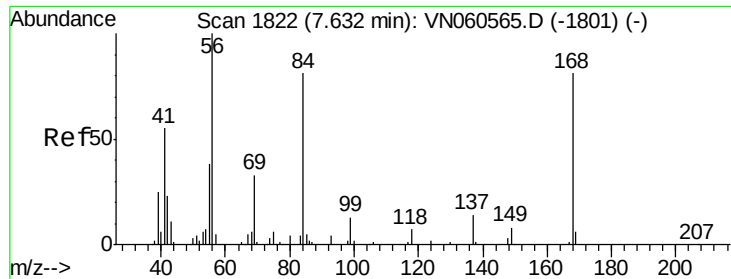
Tot Ion: 43 Resp: 20533
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#29
Tetrahydrofuran
Concen: 0.281 ug/l
RT: 7.44 min Scan# 1762
Delta R.T. 0.26 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

Tgt Ion: 42 Resp: 262
Ion Ratio Lower Upper
42 100
72 0.0 33.2 49.8#
71 0.0 31.1 46.7#

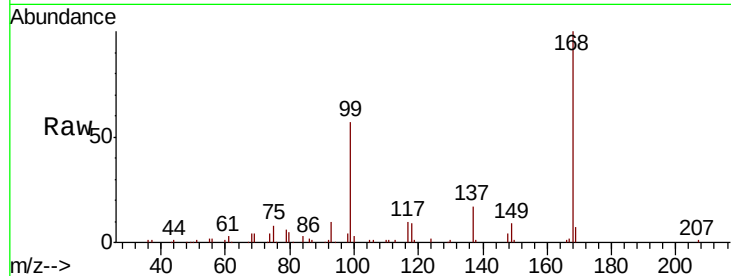




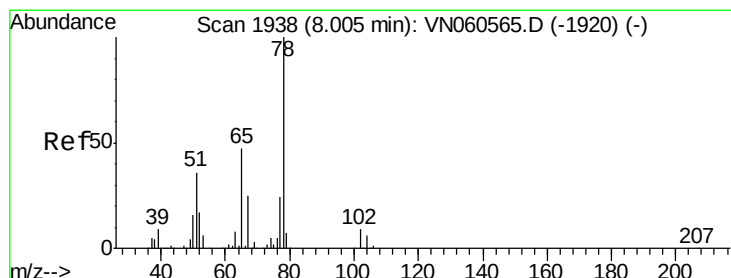
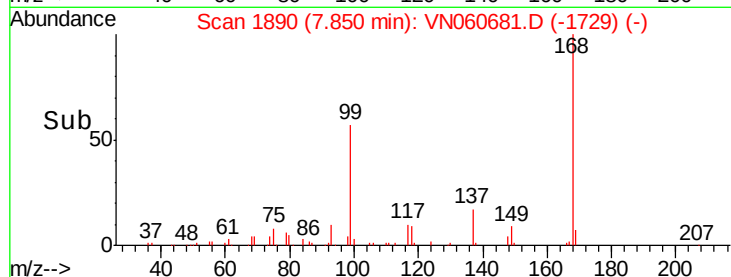
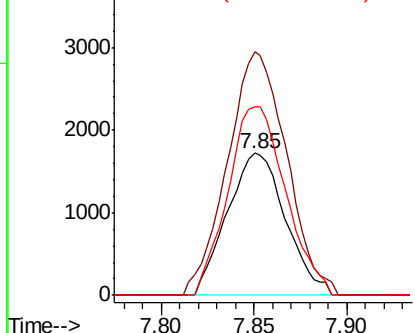
#31
Cyclohexane
Concen: 1.015 ug/l
RT: 7.85 min Scan# 1890
Delta R.T. 0.22 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3757
Ion Ratio Lower Upper
56 100
69 171.6 26.6 40.0#
84 133.0 64.3 96.5#

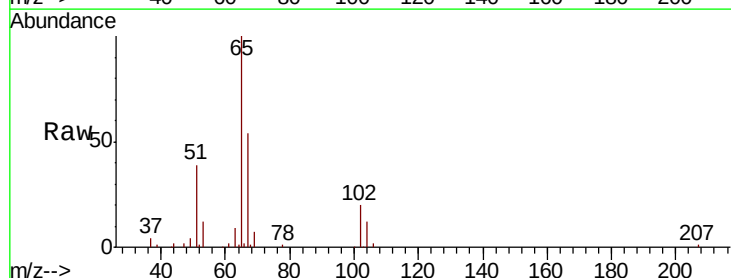


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

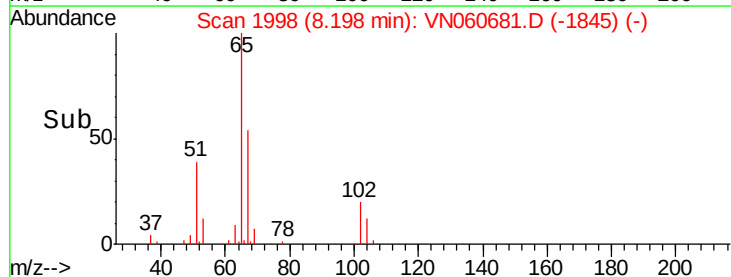
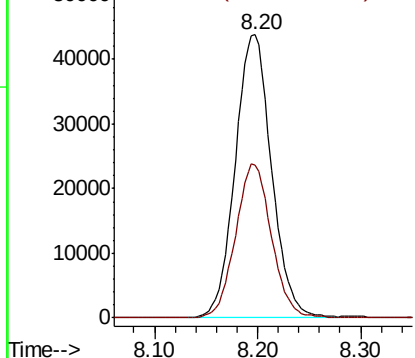


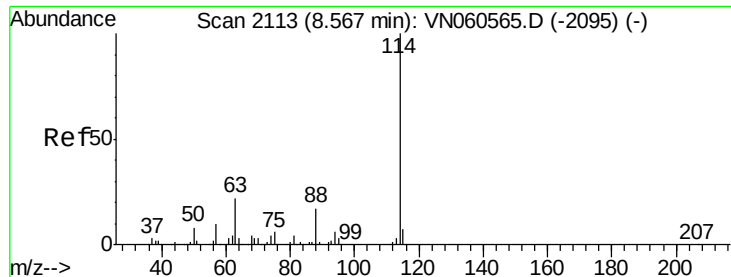
#33
1,2-Dichloroethane-d4
Concen: 46.718 ug/l
RT: 8.20 min Scan# 1998
Delta R.T. 0.19 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

Tgt Ion: 65 Resp: 107408
Ion Ratio Lower Upper
65 100
67 53.6 0.0 107.6



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

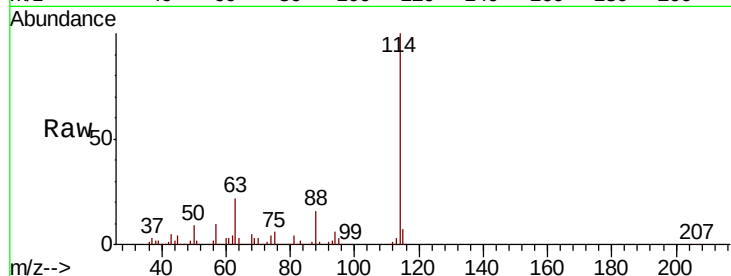




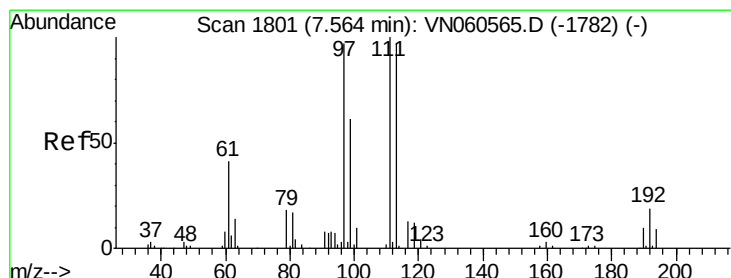
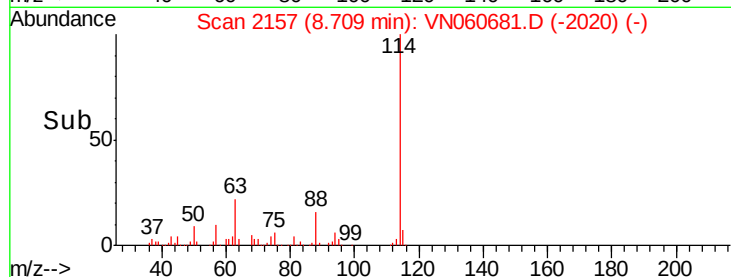
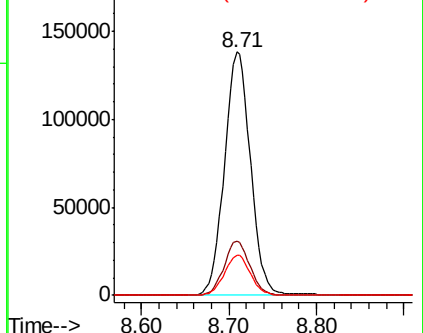
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.71 min Scan# 2157
Delta R.T. 0.14 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	114	Resp:	286097
Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	43.8
88	16.3	0.0	33.0

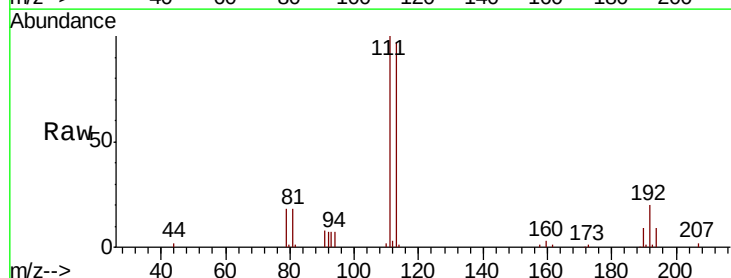


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

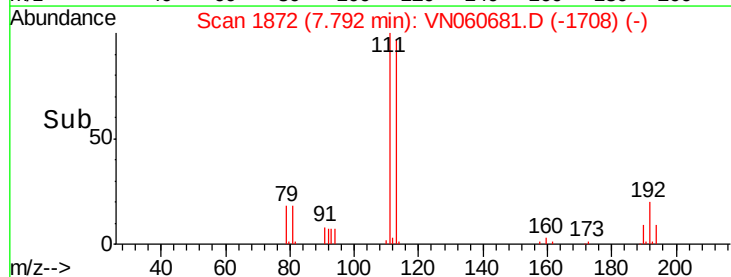
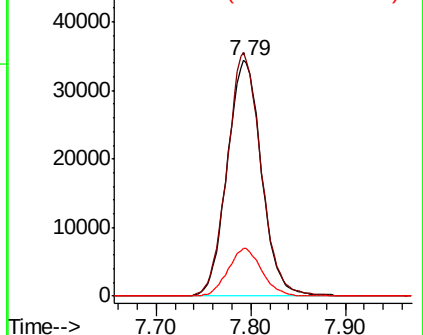


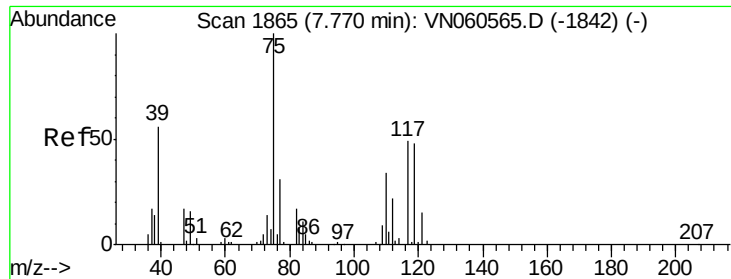
#35
Dibromofluoromethane
Concen: 50.039 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.23 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

Tgt Ion:	113	Resp:	86565
Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.9	124.3
192	19.8	15.8	23.8



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

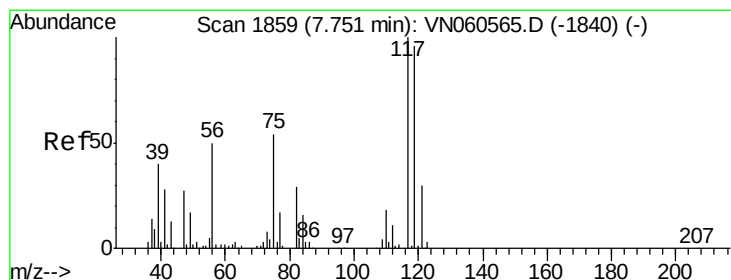
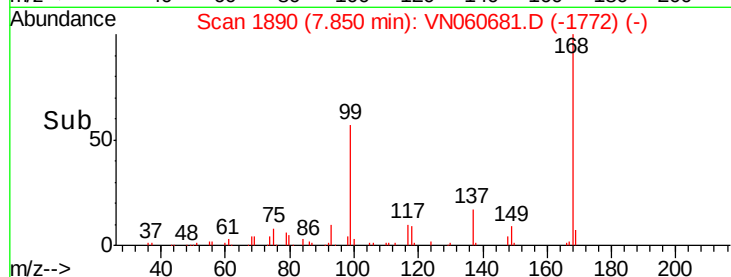
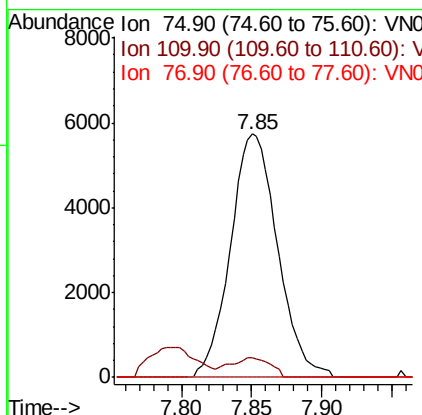
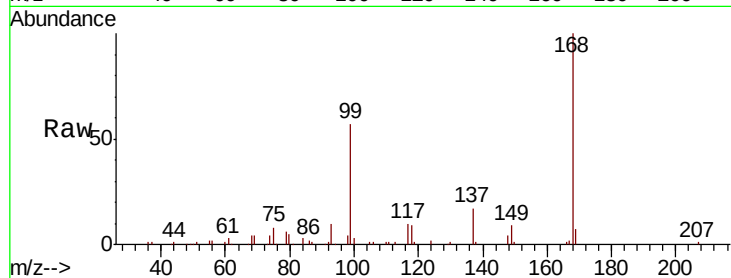




#36
 1,1-Dichloropropene
 Concen: 4.835 ug/l
 RT: 7.85 min Scan# 1890
 Delta R.T. 0.08 min
 Lab File: VN060681.D
 Acq: 24 Mar 2020 18:38

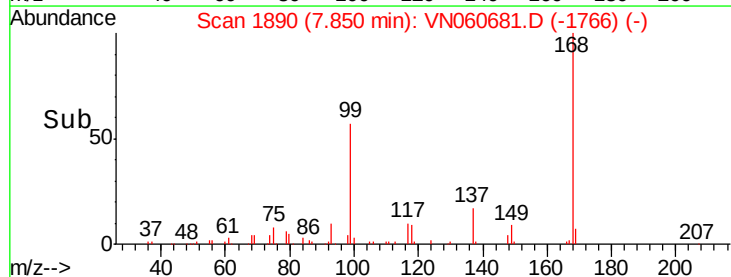
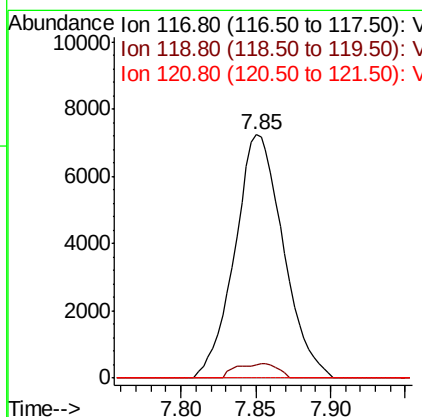
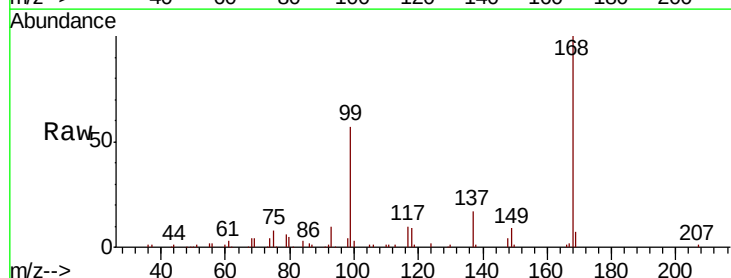
Instrument :
 MSVOA_N
 ClientSampled :

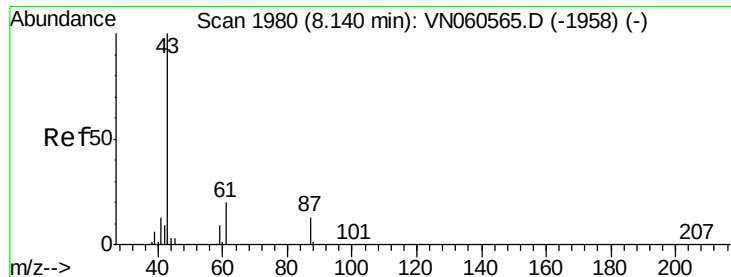
Tot Ion	75	Resp	13394
Ion Ratio	100	Lower	Upper
110	6.9	16.9	50.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.585 ug/l
 RT: 7.85 min Scan# 1890
 Delta R.T. 0.10 min
 Lab File: VN060681.D
 Acq: 24 Mar 2020 18:38

Tgt Ion	117	Resp	16349
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
119	5.4	76.2	114.2#
121	0.0	23.7	35.5#

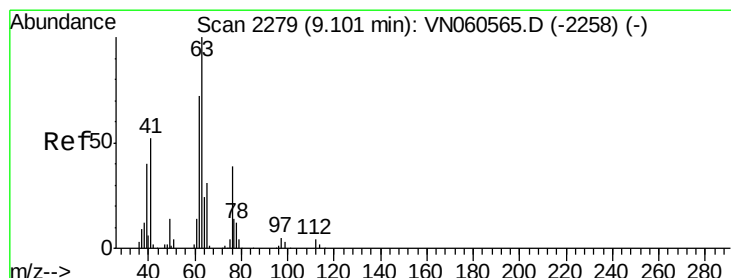
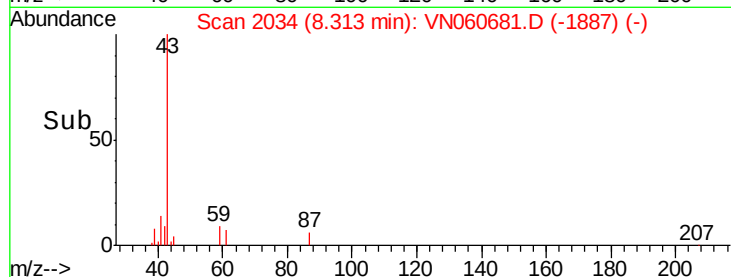
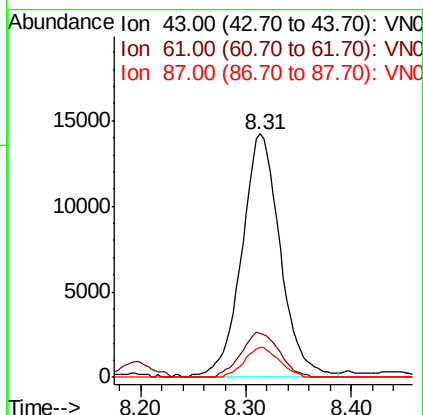
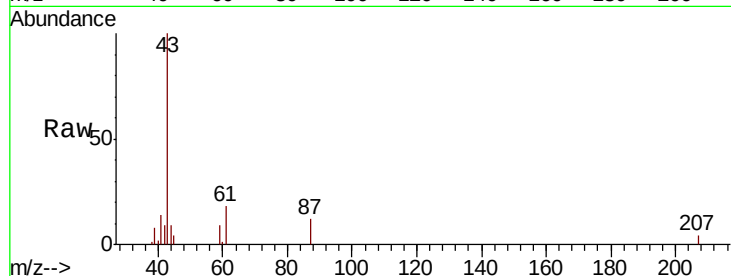




#43
Isopropyl Acetate
Concen: 7.334 ug/l
RT: 8.31 min Scan# 2034
Delta R.T. 0.17 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

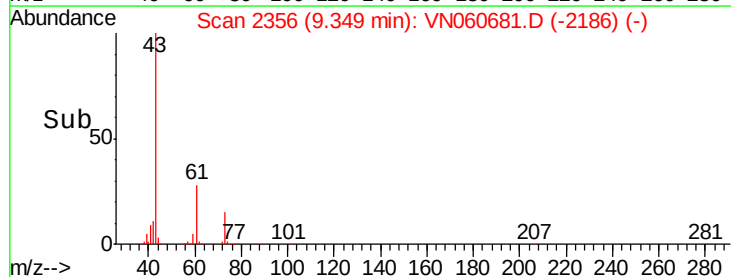
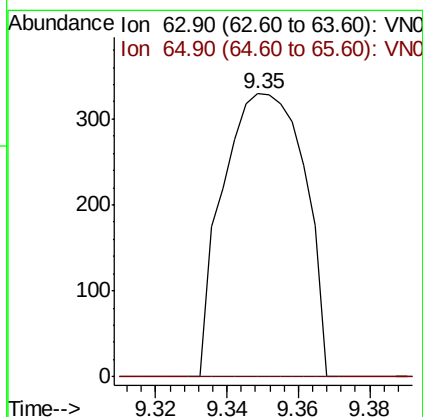
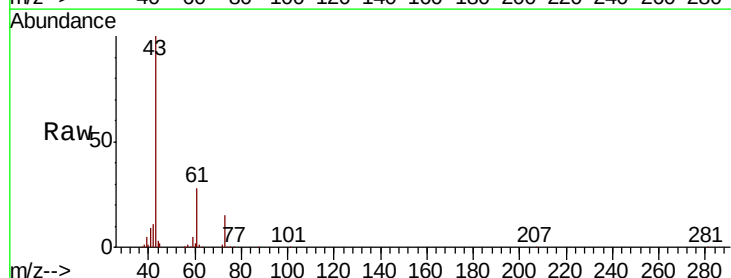
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MSVOA_N
ClientSampleId :

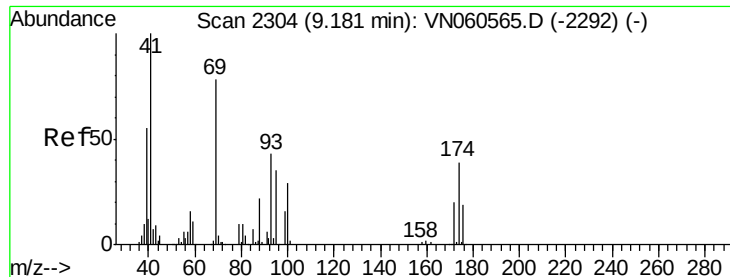
Tot Ion: 43 Resp: 36206
Ion Ratio Lower Upper
43 100
61 18.3 20.7 31.1#
87 11.2 9.8 14.8



#45
1,2-Dichloropropane
Concen: 0.234 ug/l
RT: 9.35 min Scan# 2356
Delta R.T. 0.25 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

Tgt Ion: 63 Resp: 517
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.0#

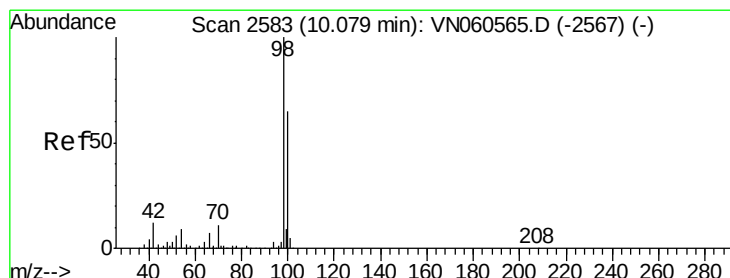
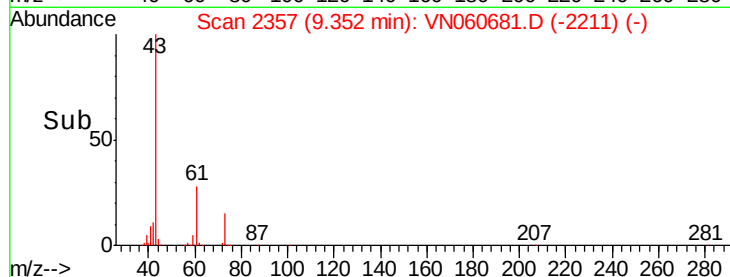
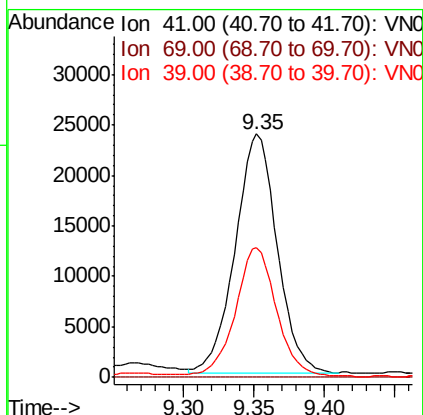
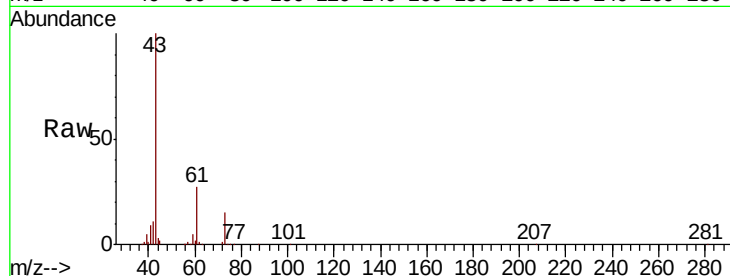




#48
Methvl methacrylate
Concen: 22.353 ug/l
RT: 9.35 min Scan# 2357
Delta R.T. 0.17 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

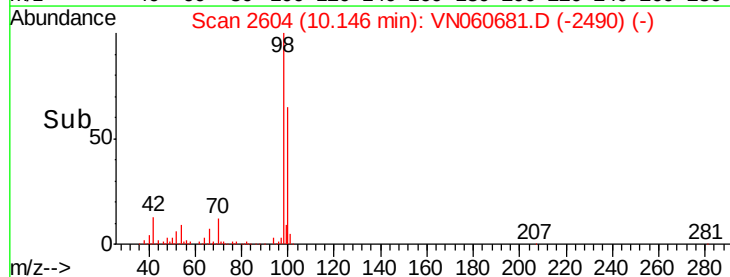
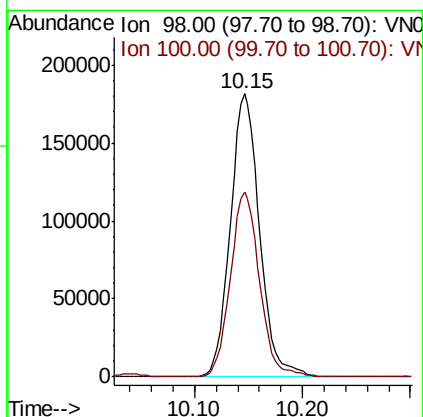
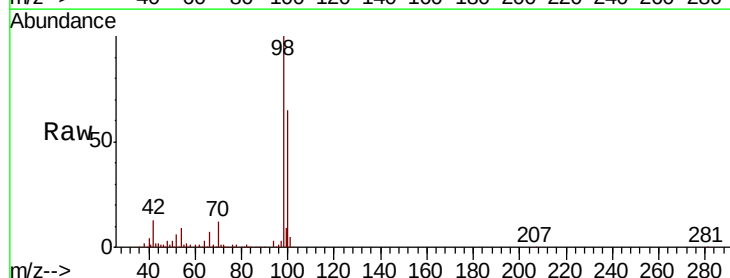
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ClientSampleId :

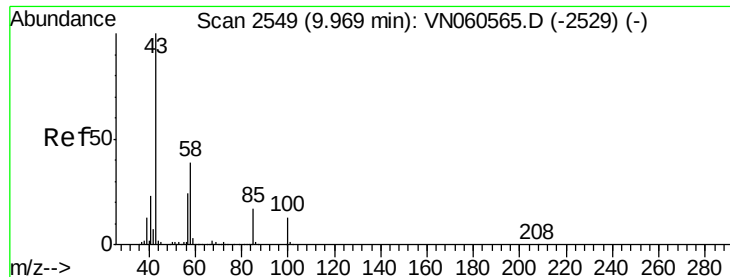
Tot Ion: 41 Resp: 49130
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 54.5 44.0 66.0



#50
Toluene-d8
Concen: 48.587 ug/l
RT: 10.15 min Scan# 2604
Delta R.T. 0.07 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

Tgt Ion: 98 Resp: 343322
Ion Ratio Lower Upper
98 100
100 65.1 51.8 77.8

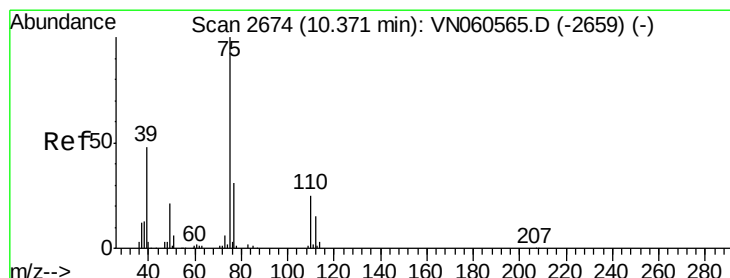
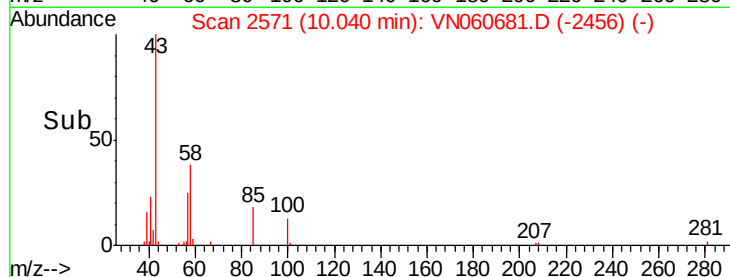
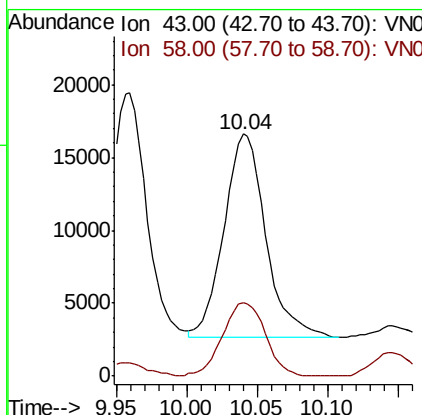
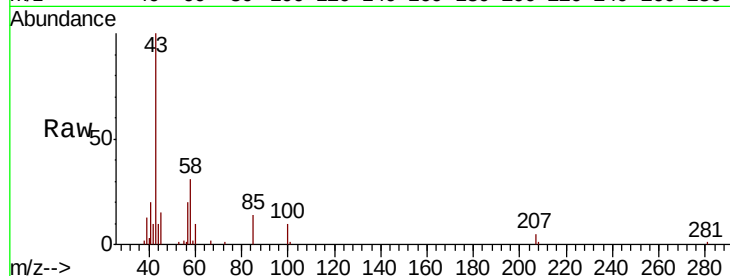




#51
 4-Methyl-2-Pentanone
 Concen: 10.281 ug/l
 RT: 10.04 min Scan# 2571
 Delta R.T. 0.07 min
 Lab File: VN060681.D
 Acq: 24 Mar 2020 18:38

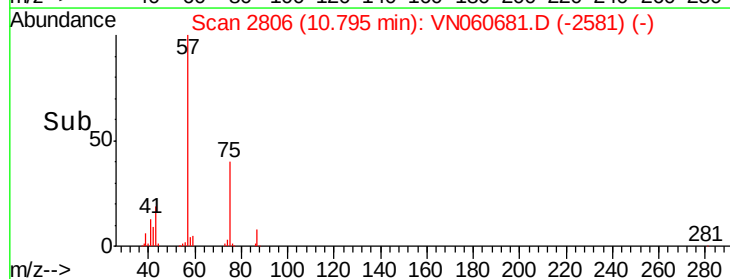
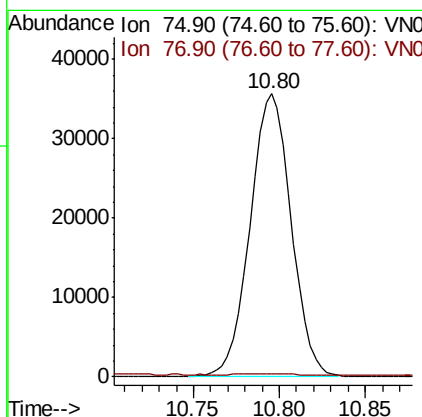
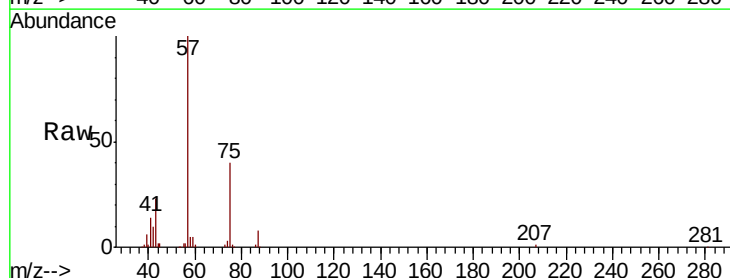
Instrument :
 MSVOA_N
 ClientSampled :

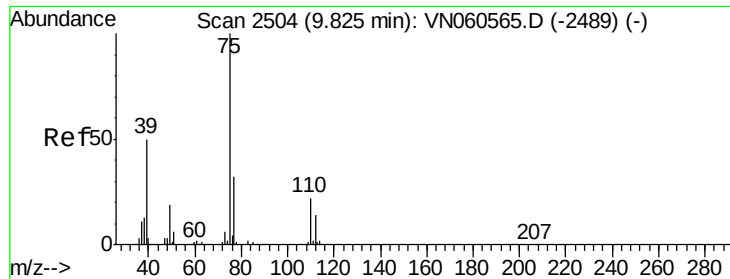
Tot Ion: 43 Resp: 28881
 Ion Ratio Lower Upper
 43 100
 58 37.0 30.8 46.2



#53
 t-1,3-Dichloropropene
 Concen: 18.525 ug/l
 RT: 10.80 min Scan# 2806
 Delta R.T. 0.42 min
 Lab File: VN060681.D
 Acq: 24 Mar 2020 18:38

Tgt Ion: 75 Resp: 58992
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.1 37.7#



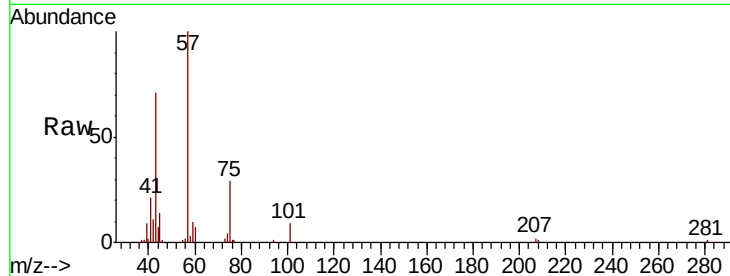


#54

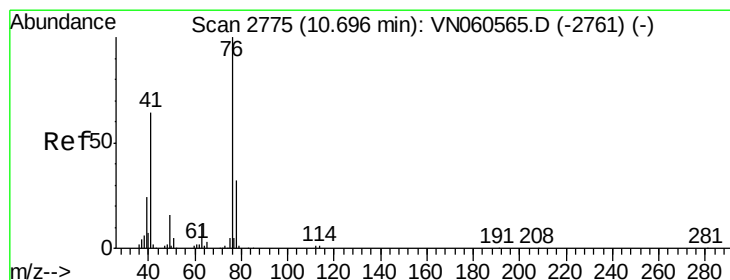
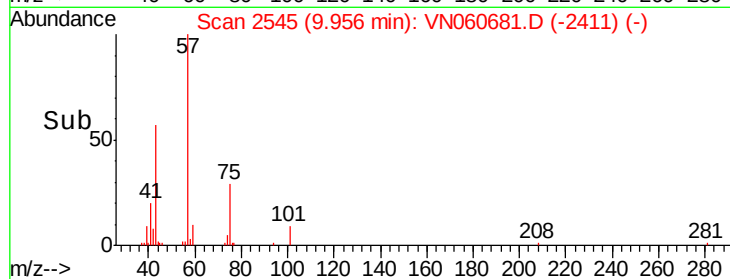
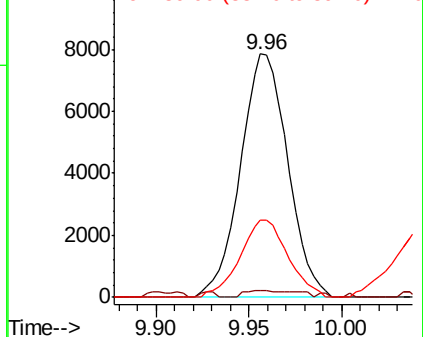
cis-1,3-Dichloropropene
 Concen: 3.990 ug/l
 RT: 9.96 min Scan# 2545
 Delta R.T. 0.13 min
 Lab File: VN060681.D
 Acq: 24 Mar 2020 18:38

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 13939
 Ion Ratio Lower Upper
 75 100
 77 3.0 25.4 38.0#
 39 31.7 40.2 60.4#



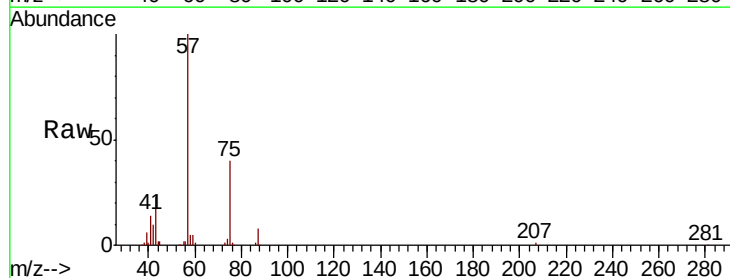
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



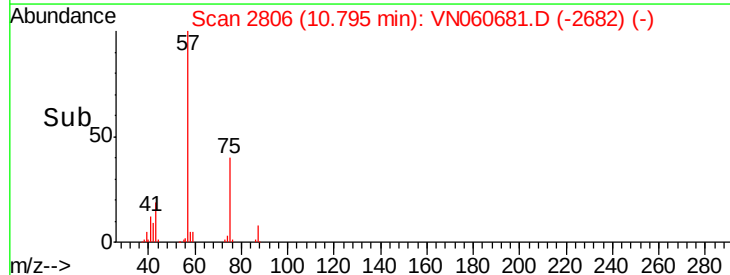
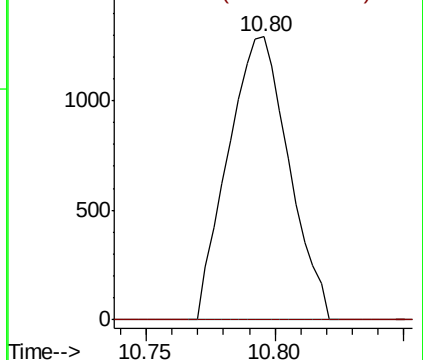
#57

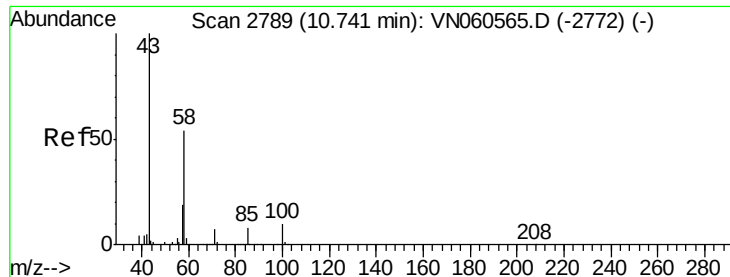
1,3-Dichloropropane
 Concen: 0.628 ug/l
 RT: 10.80 min Scan# 2806
 Delta R.T. 0.10 min
 Lab File: VN060681.D
 Acq: 24 Mar 2020 18:38

Tgt Ion: 76 Resp: 2119
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

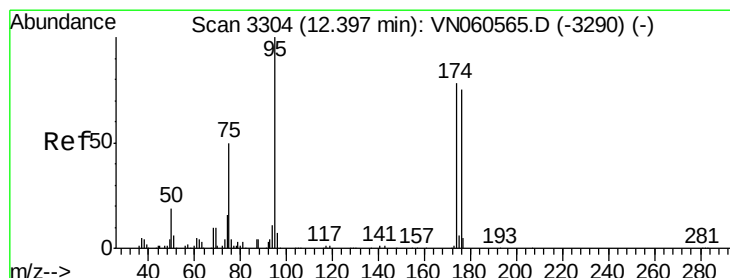
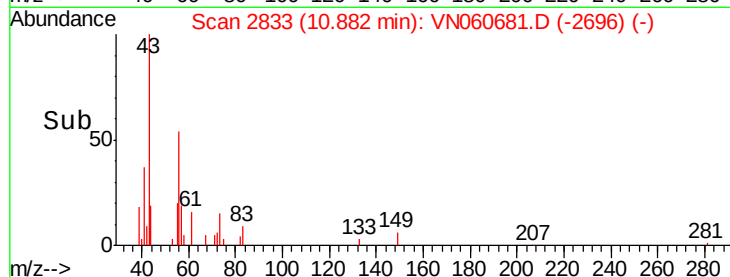
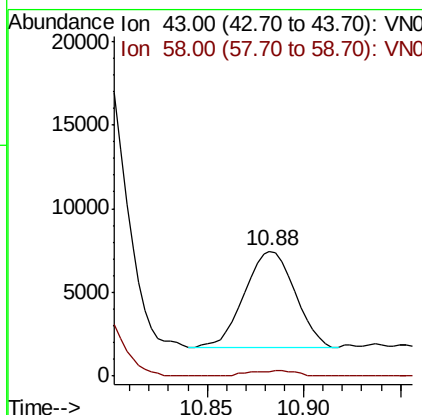
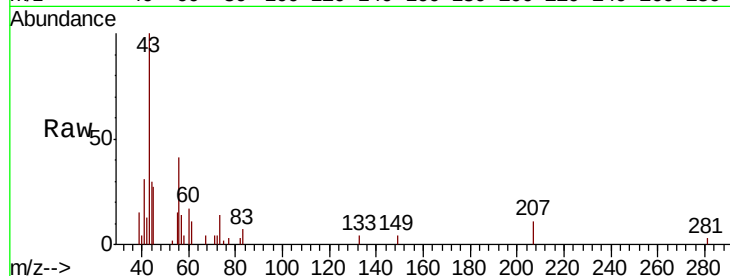




#59
2-Hexanone
Concen: 5.154 ug/l
RT: 10.88 min Scan# 2833
Delta R.T. 0.14 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

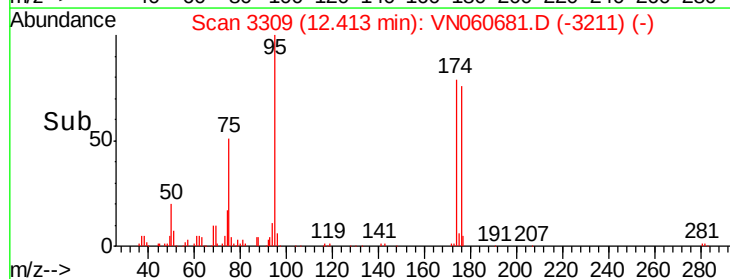
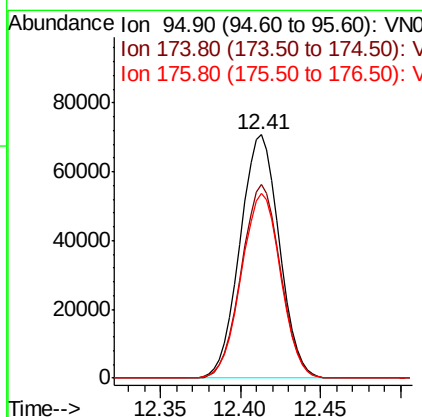
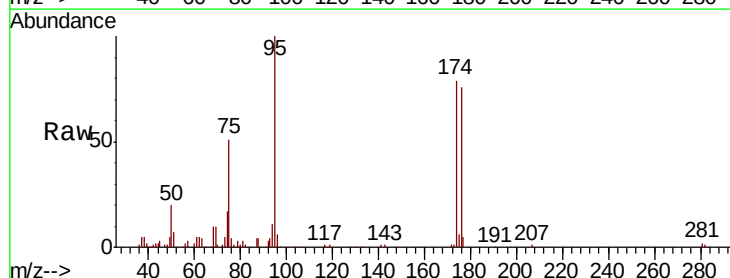
Instrument :
MSVOA_N
ClientSampled :

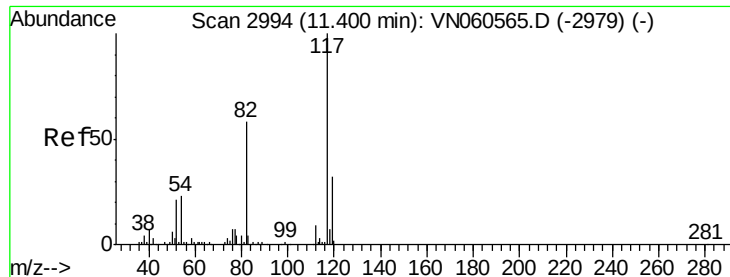
Tot Ion: 43 Resp: 10429
Ion Ratio Lower Upper
43 100
58 4.9 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 45.793 ug/l
RT: 12.41 min Scan# 3309
Delta R.T. 0.02 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

Tgt Ion: 95 Resp: 118587
Ion Ratio Lower Upper
95 100
174 79.3 0.0 157.6
176 76.3 0.0 150.6

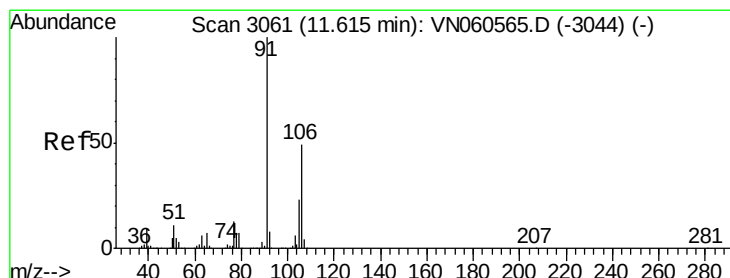
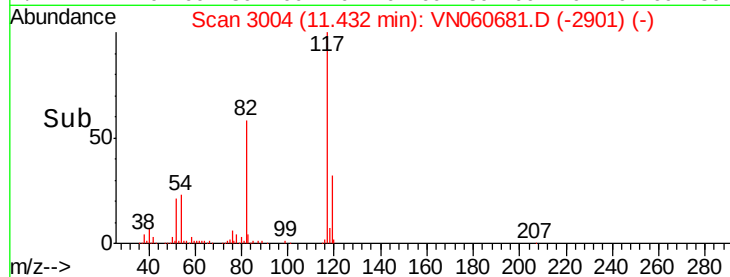
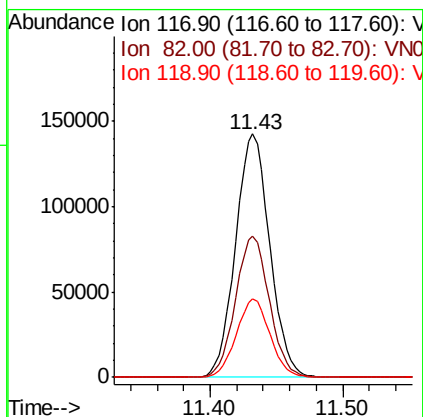
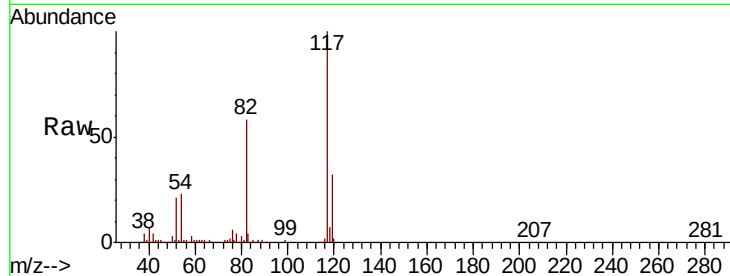




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.03 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

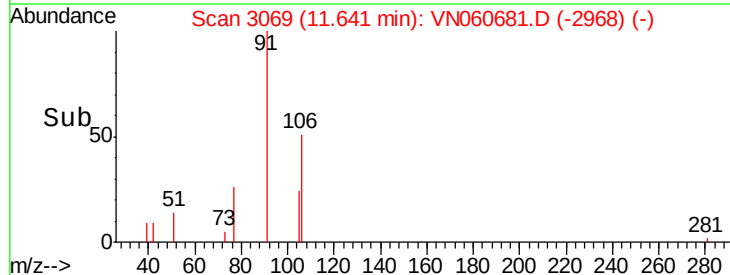
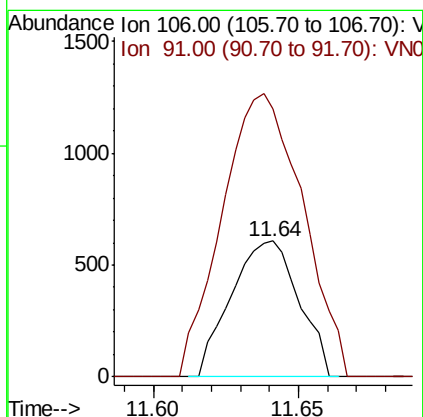
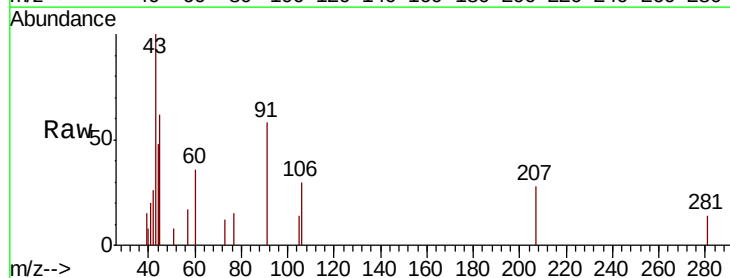
Instrument :
MSVOA_N
ClientSampled :

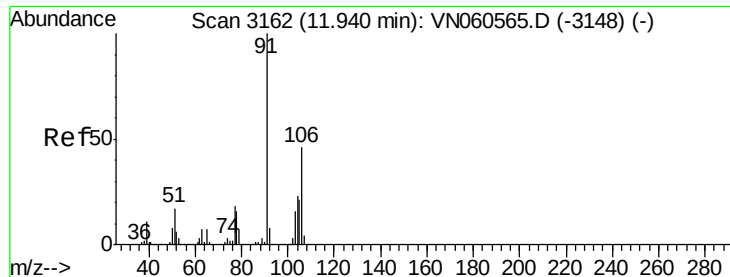
Tot Ion:117 Resp: 255406
Ion Ratio Lower Upper
117 100
82 58.0 46.7 70.1
119 32.1 25.5 38.3



#68
m/p-Xylenes
Concen: 0.282 ug/l
RT: 11.64 min Scan# 3069
Delta R.T. 0.03 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

Tgt Ion:106 Resp: 988
Ion Ratio Lower Upper
106 100
91 246.6 165.0 247.4

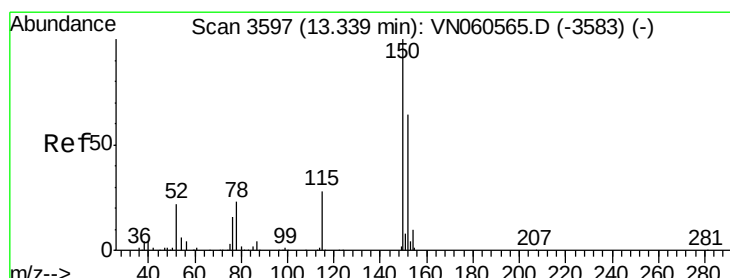
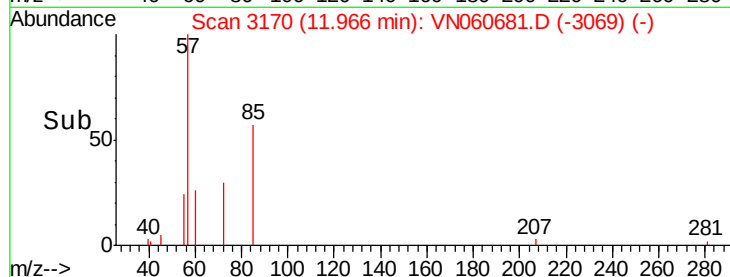
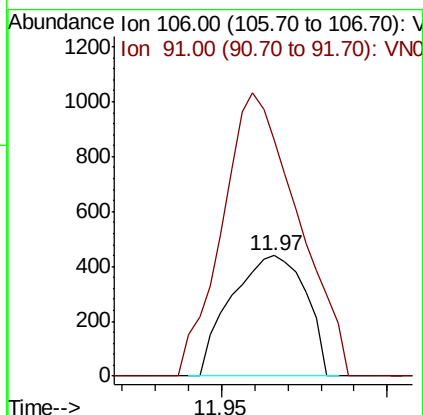
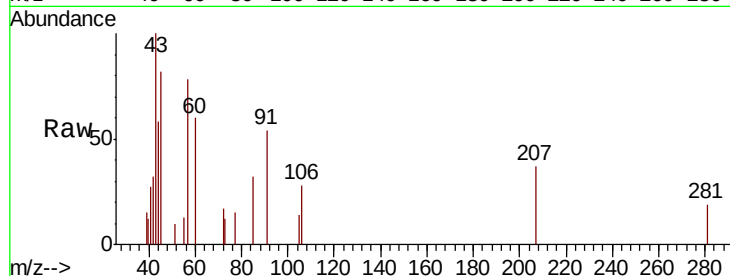




#69
o-Xylene
Concen: 0.207 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.03 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

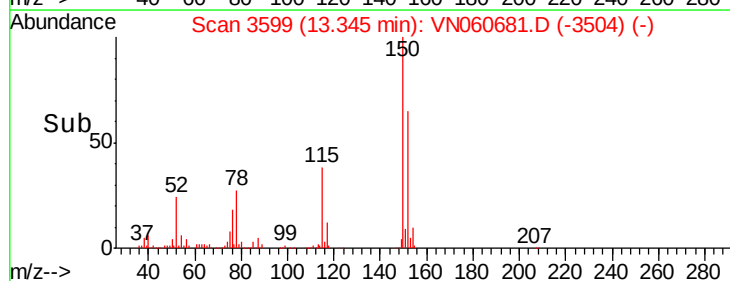
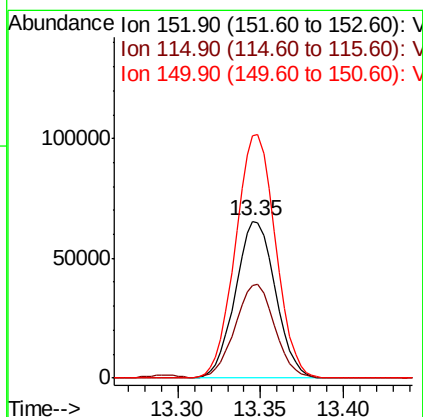
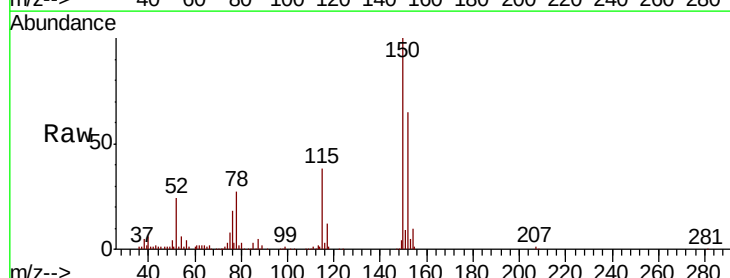
Instrument :
MSVOA_N
ClientSampled :

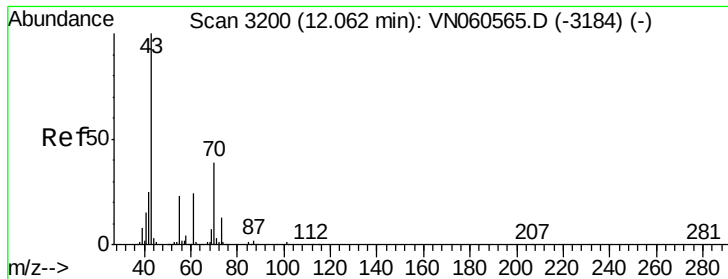
Tot Ion:106 Resp: 690
Ion Ratio Lower Upper
106 100
91 237.5 109.5 328.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.01 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

Tgt Ion:152 Resp: 109616
Ion Ratio Lower Upper
152 100
115 59.7 30.2 90.6
150 155.7 0.0 350.2

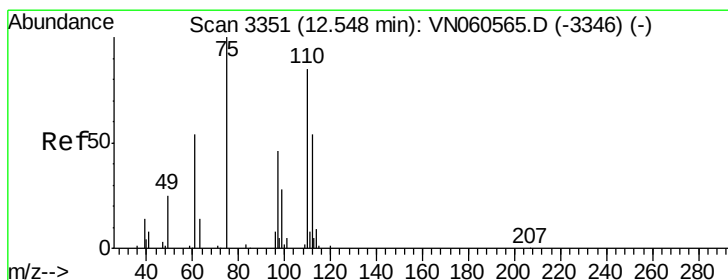
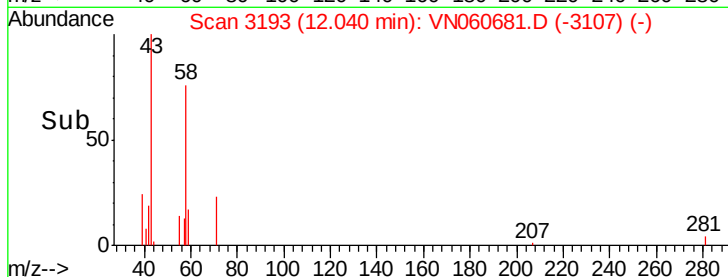
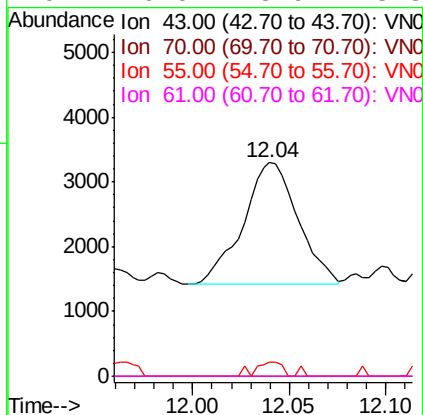
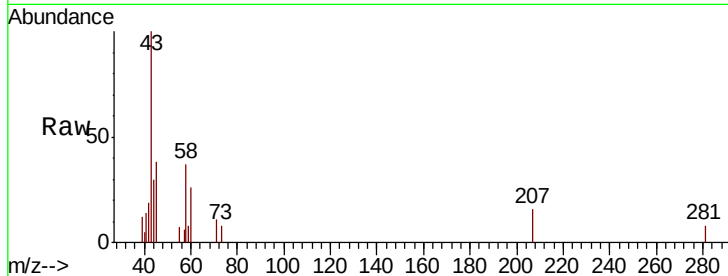




#74
N-amvl acetate
Concen: 0.979 ug/l
RT: 12.04 min Scan# 3193
Delta R.T. -0.02 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

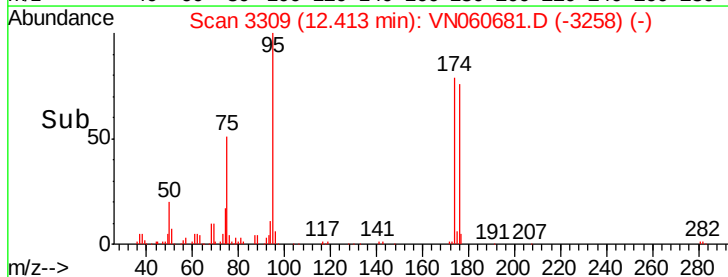
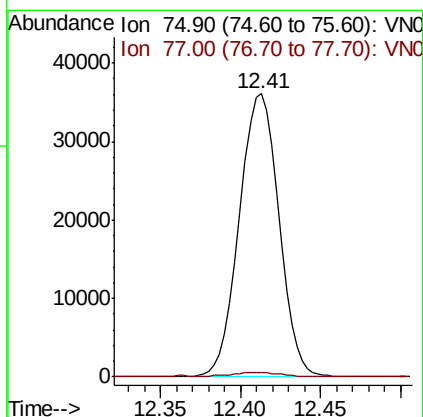
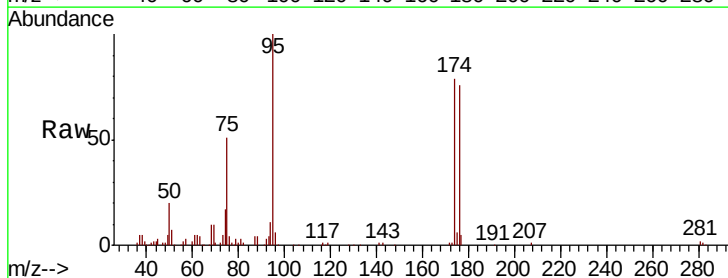
Instrument :
MSVOA_N
ClientSampleId :

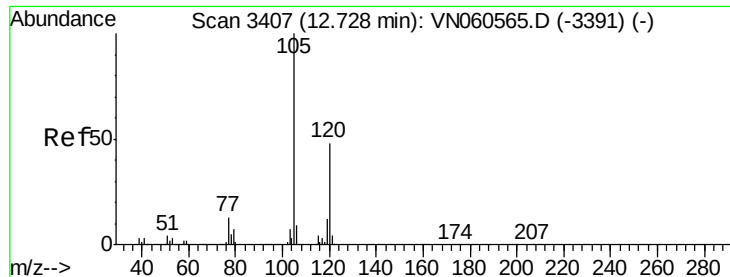
Tot Ion: 43 Resp: 3722
Ion Ratio Lower Upper
43 100
70 0.0 31.1 46.7#
55 5.7 18.6 27.8#
61 0.0 18.9 28.3#



#76
1,2,3-Trichloropropane
Concen: 25.862 ug/l
RT: 12.41 min Scan# 3309
Delta R.T. -0.14 min
Lab File: VN060681.D
Acq: 24 Mar 2020 18:38

Tgt Ion: 75 Resp: 61172
Ion Ratio Lower Upper
75 100
77 1.8 0.0 0.0#

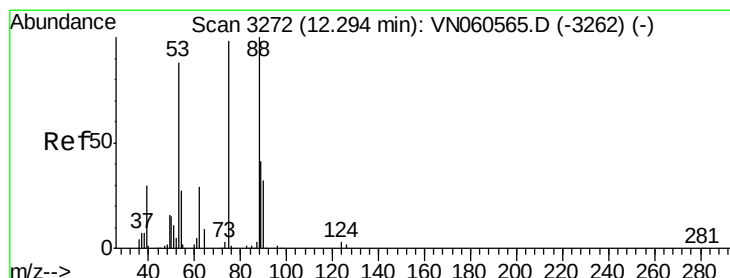
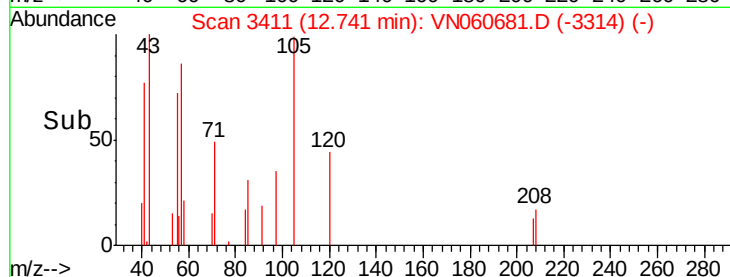
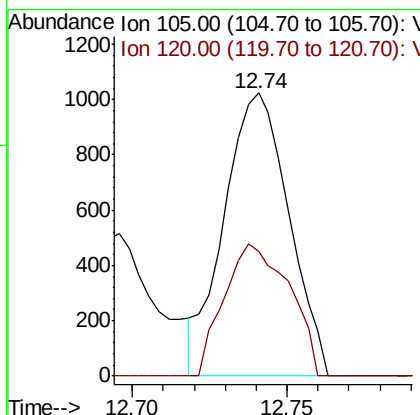
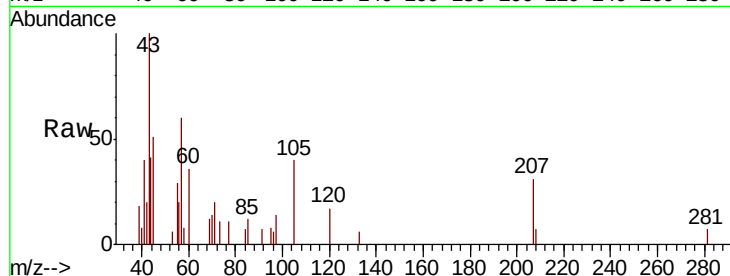




#80
 1,3,5-Trimethylbenzene
 Concen: 0.213 ug/l
 RT: 12.74 min Scan# 3411
 Delta R.T. 0.01 min
 Lab File: VN060681.D
 Acq: 24 Mar 2020 18:38

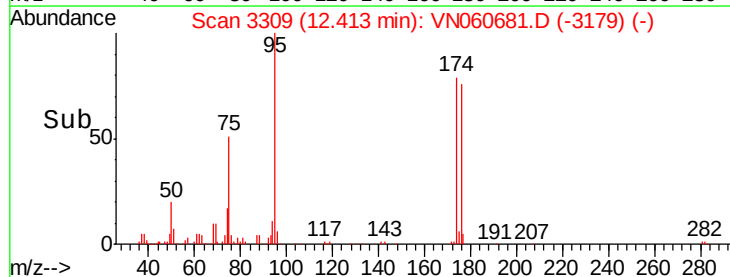
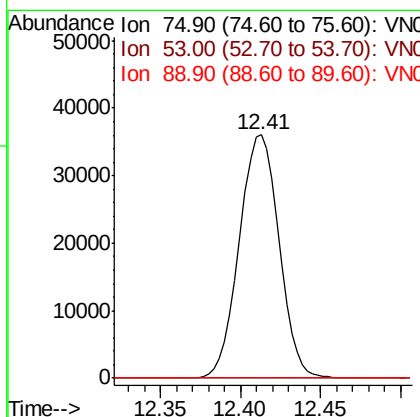
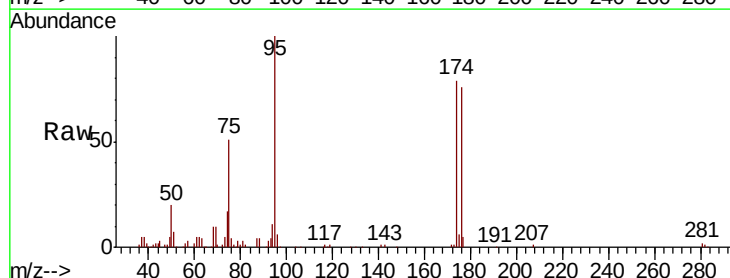
Instrument :
 MSVOA_N
 ClientSampled :

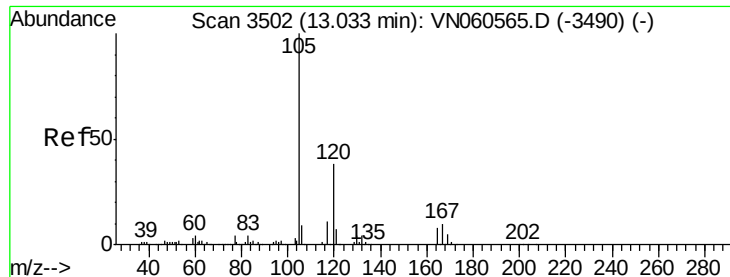
Tot Ion:105 Resp: 1484
 Ion Ratio Lower Upper
 105 100
 120 47.0 23.9 71.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.422 ug/l
 RT: 12.41 min Scan# 3309
 Delta R.T. 0.12 min
 Lab File: VN060681.D
 Acq: 24 Mar 2020 18:38

Tgt Ion: 75 Resp: 61172
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

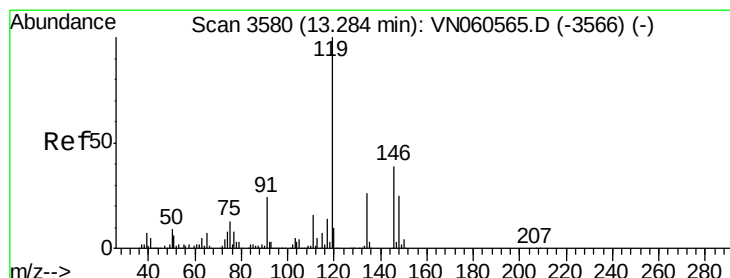
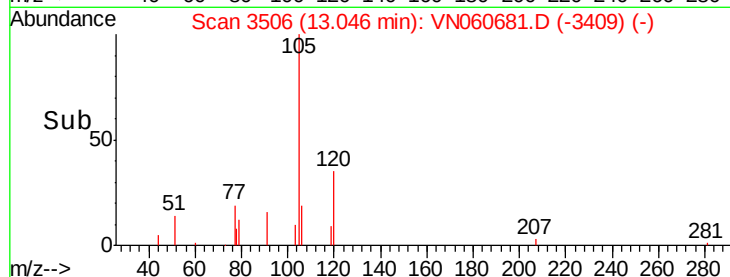
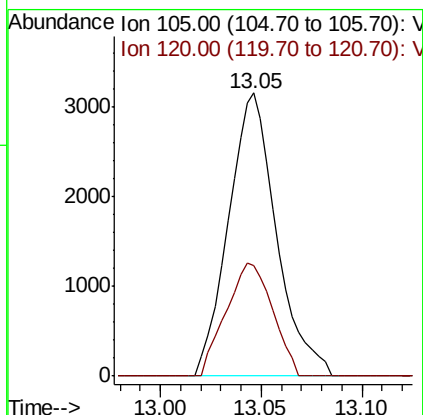
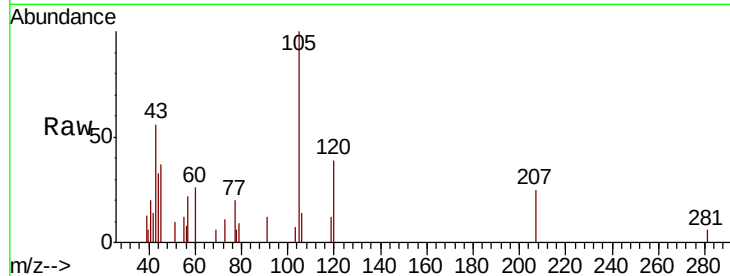




#84
 1,2,4-Trimethylbenzene
 Concen: 0.755 ug/l
 RT: 13.05 min Scan# 3506
 Delta R.T. 0.01 min
 Lab File: VN060681.D
 Acq: 24 Mar 2020 18:38

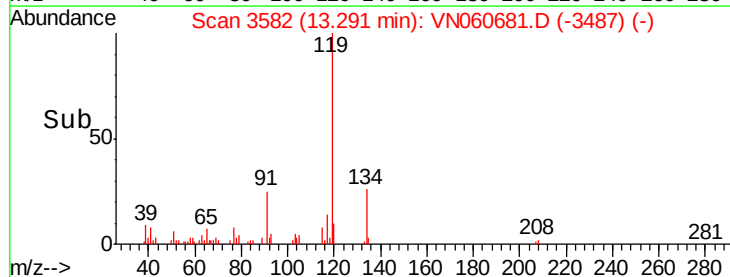
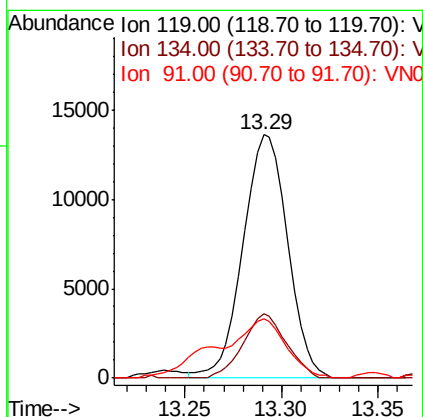
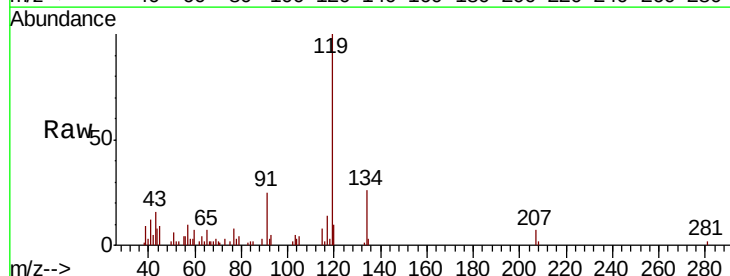
Instrument :
 MSVOA_N
 ClientSampleId :

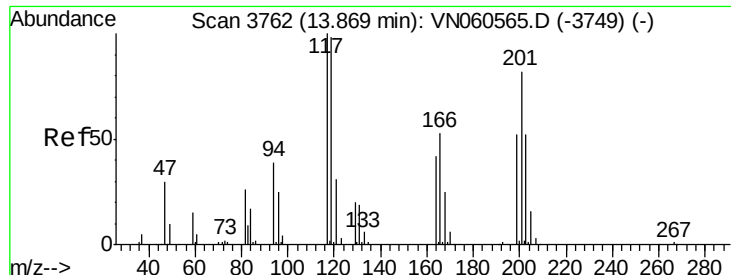
Tot Ion:105 Resp: 5217
 Ion Ratio Lower Upper
 105 100
 120 38.7 22.1 66.5



#86
 p-Isopropyltoluene
 Concen: 3.125 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.01 min
 Lab File: VN060681.D
 Acq: 24 Mar 2020 18:38

Tgt Ion:119 Resp: 21868
 Ion Ratio Lower Upper
 119 100
 134 25.5 13.0 39.0
 91 25.2 12.0 36.0





#90

Hexachloroethane

Concen: 0.254 ug/l

RT: 13.95 min Scan# 3786

Delta R.T. 0.08 min

Lab File: VN060681.D

Acq: 24 Mar 2020 18:38

Instrument :

MSVOA_N

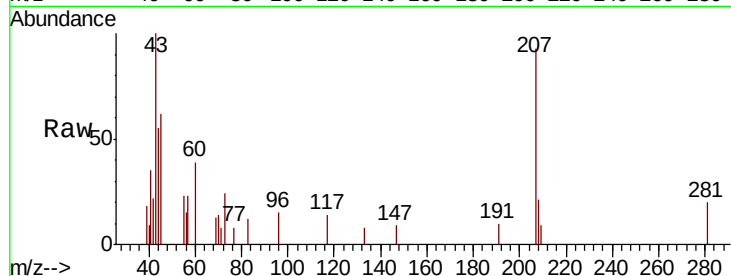
ClientSampleId :

Tot Ion:117 Resp: 258

Ion Ratio Lower Upper

117 100

201 0.0 40.8 122.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.95

250

200

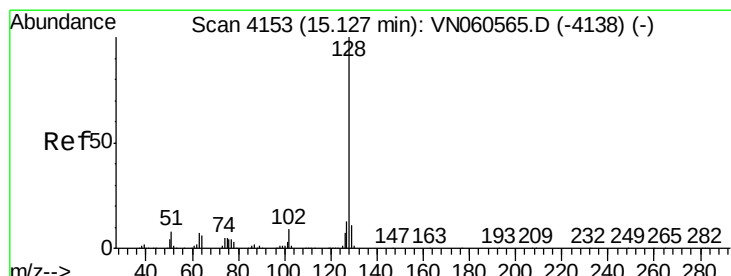
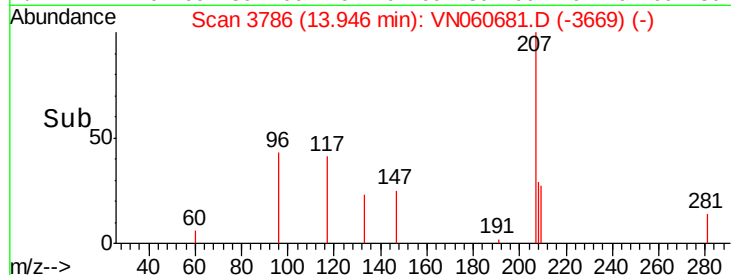
150

100

50

0

Time--> 13.92 13.94 13.96



#95

Naphthalene

Concen: 1.267 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060681.D

Acq: 24 Mar 2020 18:38

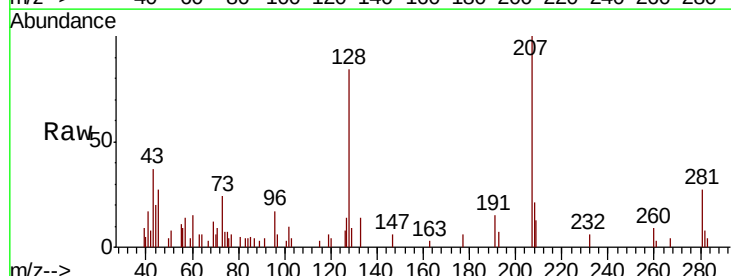
Tgt Ion:128 Resp: 7821

Ion Ratio Lower Upper

128 100

127 14.3 10.2 15.2

129 8.8 8.8 13.2



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

6000

5000

4000

3000

2000

1000

0

Time--> 15.10 15.15

