

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041420\
 Data File : VN060933.D
 Acq On : 14 Apr 2020 15:07
 Operator : JC/MD
 Sample : L2129-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-32

Quant Time: Apr 15 07:46:03 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	7.64	168	152268	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	257723	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	244392	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	109601	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	100835	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
35) Dibromofluoromethane	7.56	113	75502	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
50) Toluene-d8	10.08	98	319035	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
62) 4-Bromofluorobenzene	12.39	95	121746	52.19	ug/l	0.00
Spiked Amount			Recovery	=	104.38%	

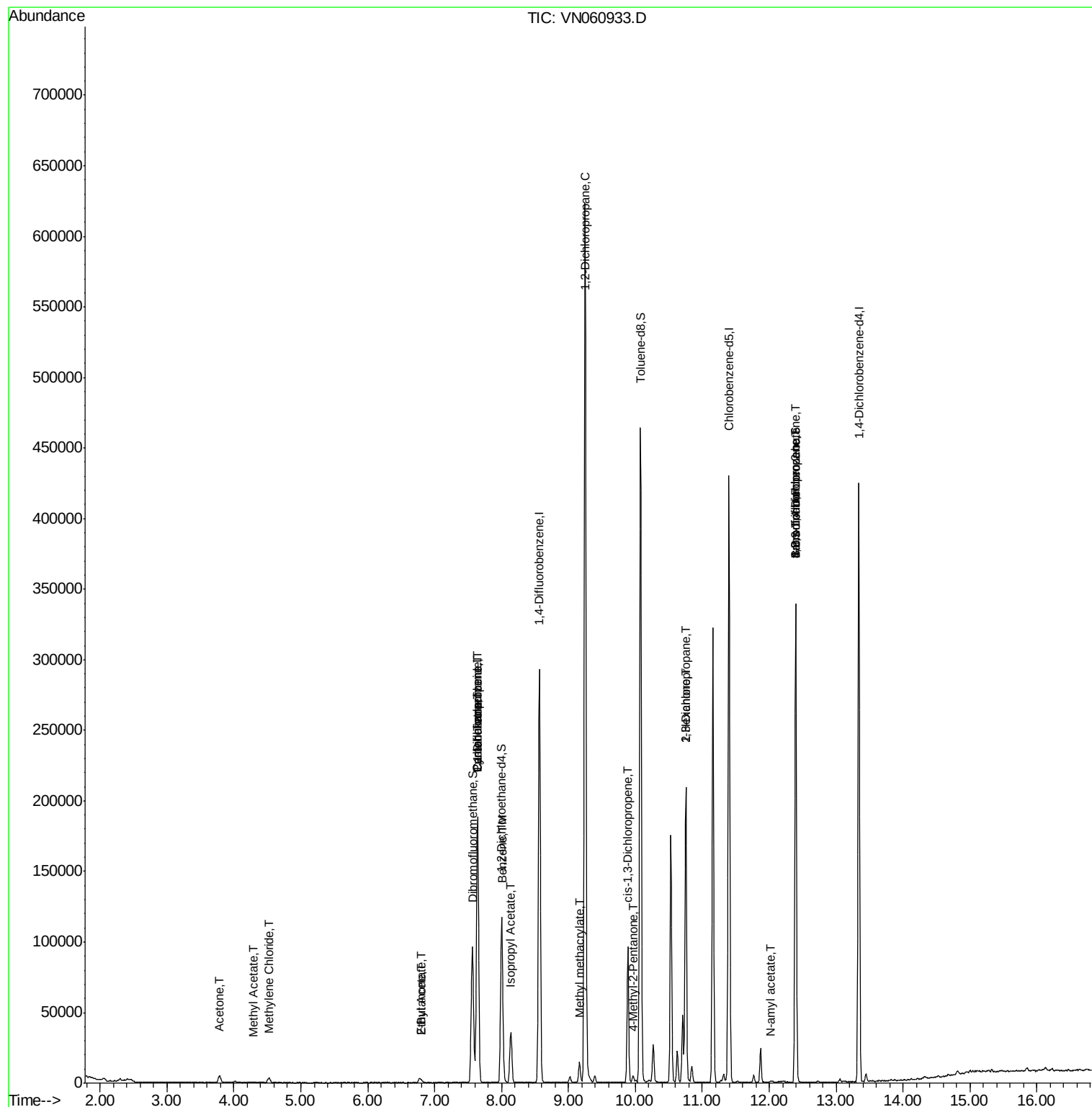
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	9335	12.608	ug/l	97
18) Methyl Acetate	4.30	43	1325	0.636	ug/l #	54
20) Methylene Chloride	4.53	84	2682	1.472	ug/l	87
25) 2-Butanone	6.81	43	2369	1.977	ug/l	93
31) Cyclohexane	7.64	56	3303	0.981	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12104	4.850	ug/l #	49
37) Ethyl Acetate	6.81	43	2369	0.879	ug/l #	86
38) Carbon Tetrachloride	7.64	117	15013	6.712	ug/l #	16
40) Benzene	8.02	78	1675	0.222	ug/l	95
43) Isopropyl Acetate	8.14	43	44117	9.920	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	629	0.316	ug/l #	43
48) Methyl methacrylate	9.16	41	2096	1.059	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4176	1.650	ug/l	87
54) cis-1,3-Dichloropropene	9.89	75	16901	5.371	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2138	0.704	ug/l #	42
59) 2-Hexanone	10.75	43	31364	17.206	ug/l #	52
71) Bromoform	12.39	173	399	1.945	ug/l #	1
74) N-amyl acetate	12.02	43	1987	0.523	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	62245	26.320	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	62245	67.597	ug/l #	13

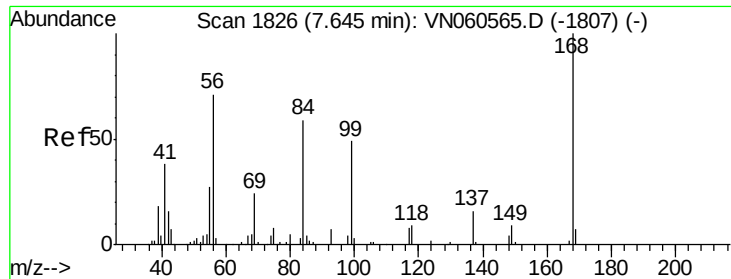
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060933.D

Acq: 14 Apr 2020 15:07

Instrument :

MSVOA_N

ClientSampled :

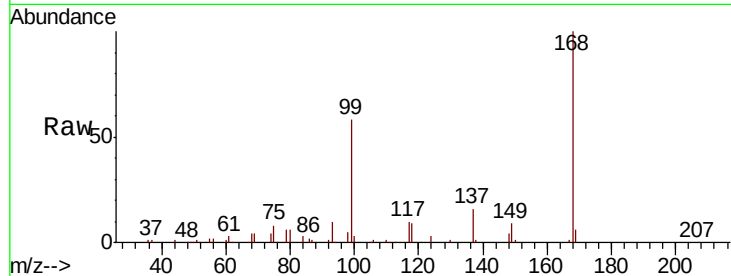
TP-32

Tot Ion:168 Resp: 152268

Ion Ratio Lower Upper

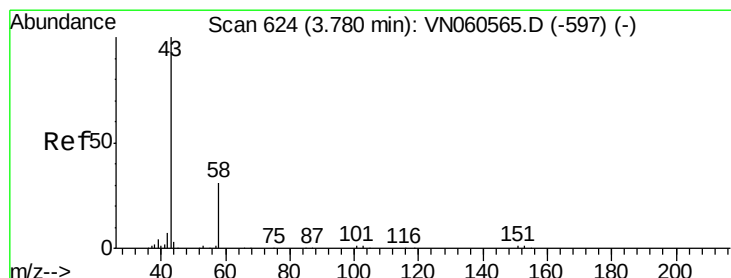
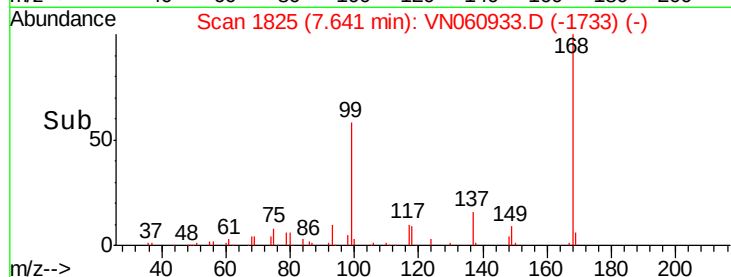
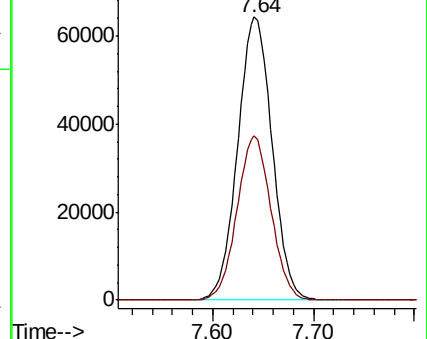
168 100

99 58.0 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 12.608 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060933.D

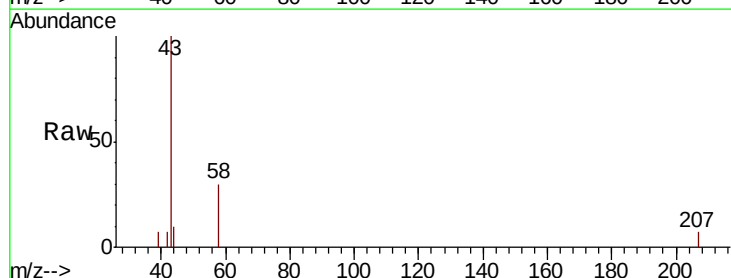
Acq: 14 Apr 2020 15:07

Tgt Ion: 43 Resp: 9335

Ion Ratio Lower Upper

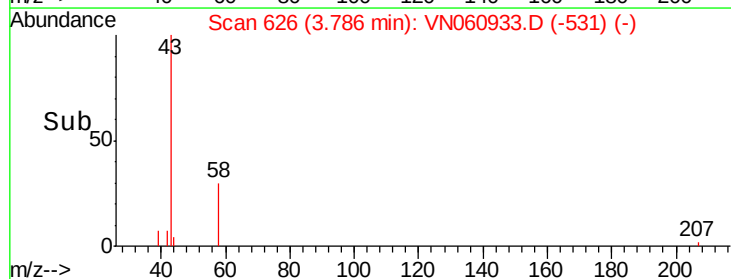
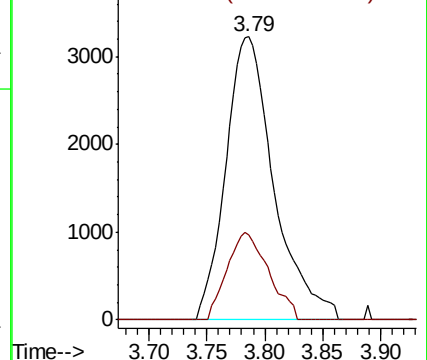
43 100

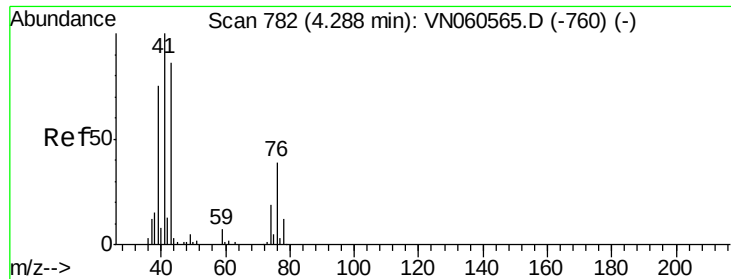
58 30.0 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

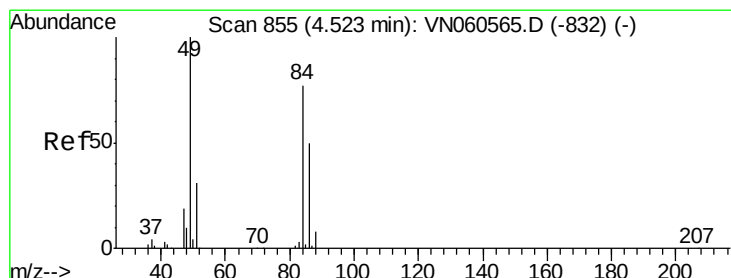
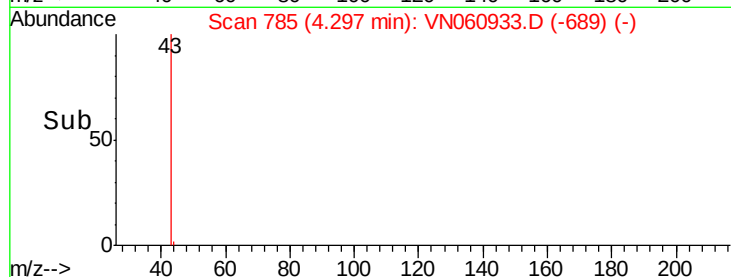
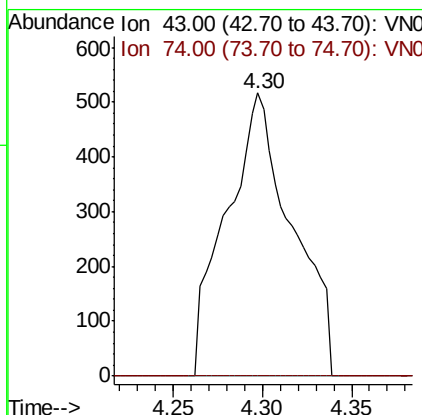
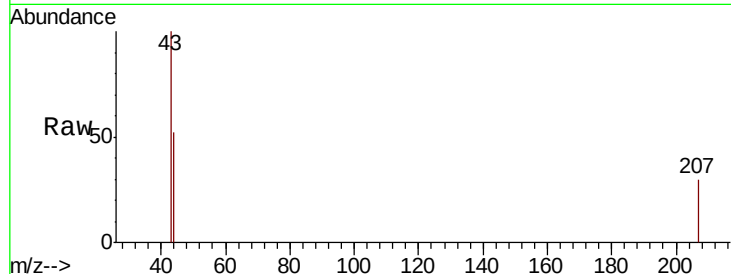




#18
Methyl Acetate
Concen: 0.636 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060933.D
Acq: 14 Apr 2020 15:07

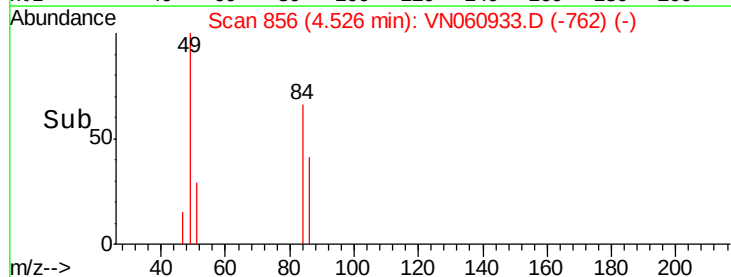
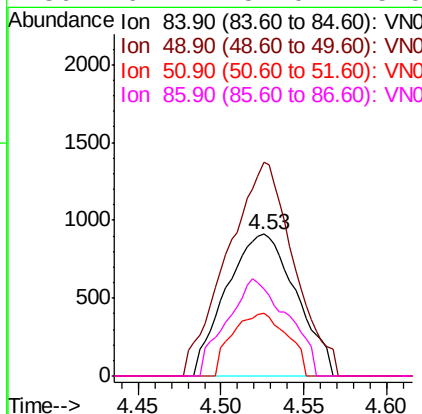
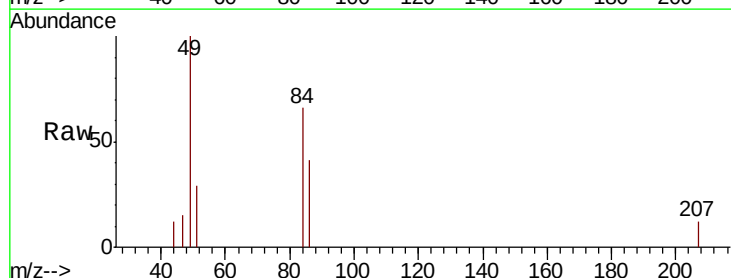
Instrument :
MSVOA_N
ClientSampled :
TP-32

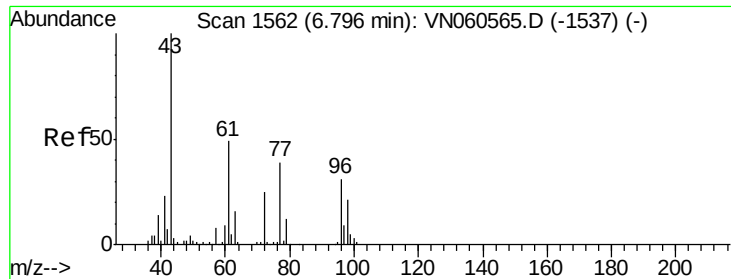
Tot Ion: 43 Resp: 1325
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.472 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060933.D
Acq: 14 Apr 2020 15:07

Tgt Ion: 84 Resp: 2682
Ion Ratio Lower Upper
84 100
49 150.9 103.3 154.9
51 44.2 31.6 47.4
86 61.4 52.0 78.0





#25

2-Butanone

Concen: 1.977 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060933.D

Acq: 14 Apr 2020 15:07

Instrument :

MSVOA_N

ClientSampled :

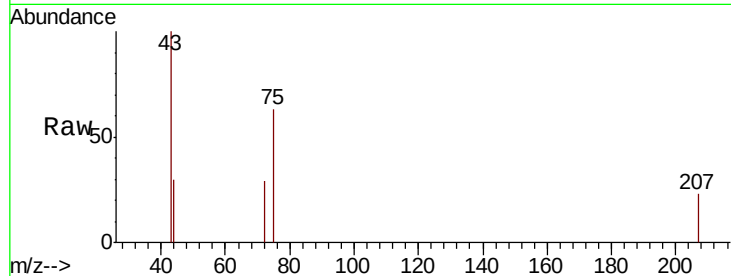
TP-32

Tot Ion: 43 Resp: 2369

Ion Ratio Lower Upper

43 100

72 29.2 20.4 30.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.81

800

600

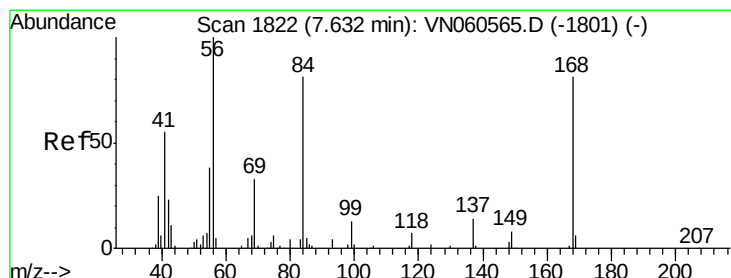
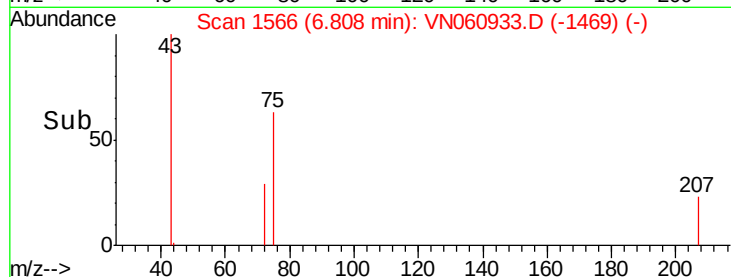
400

200

0

6.75 6.80 6.85

Time-->



#31

Cyclohexane

Concen: 0.981 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060933.D

Acq: 14 Apr 2020 15:07

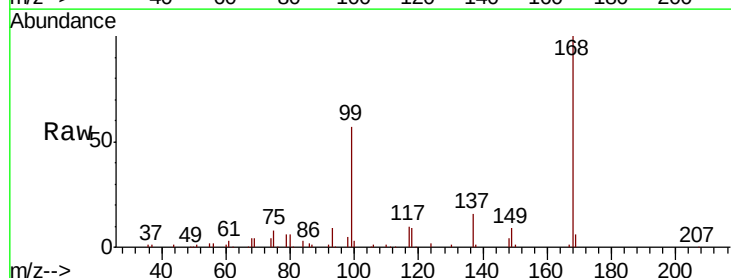
Tgt Ion: 56 Resp: 3303

Ion Ratio Lower Upper

56 100

69 192.9 26.6 40.0#

84 134.1 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

3000

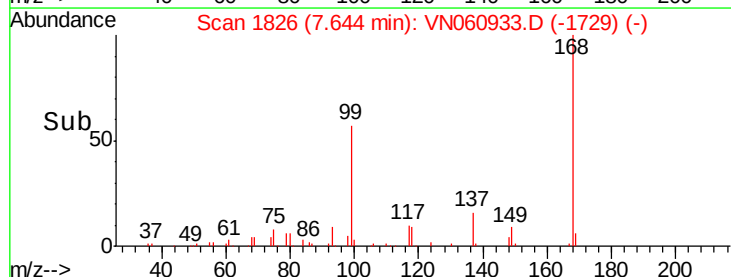
2000

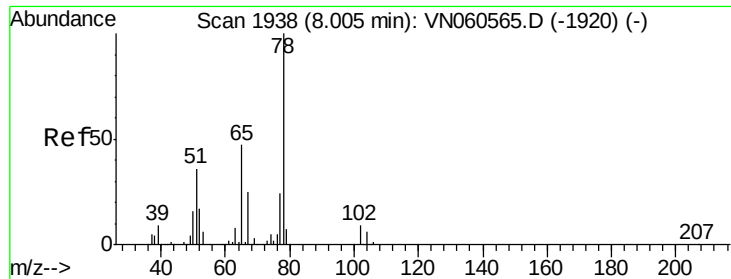
1000

0

7.60 7.65 7.70

Time-->

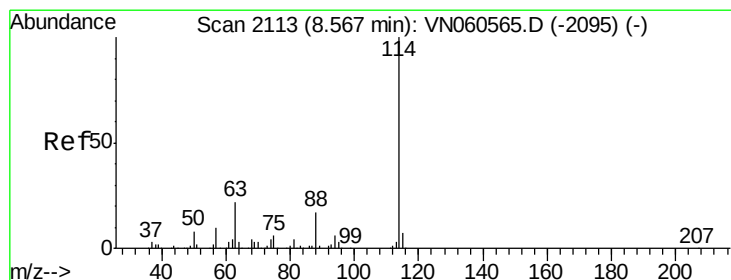
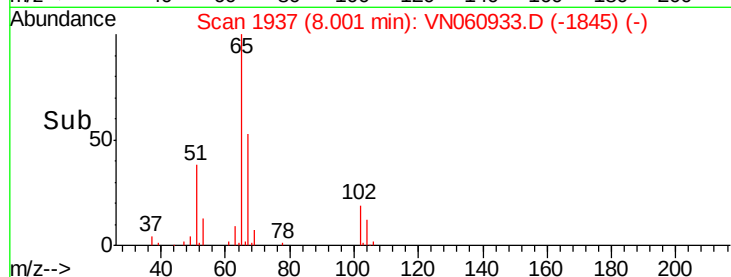
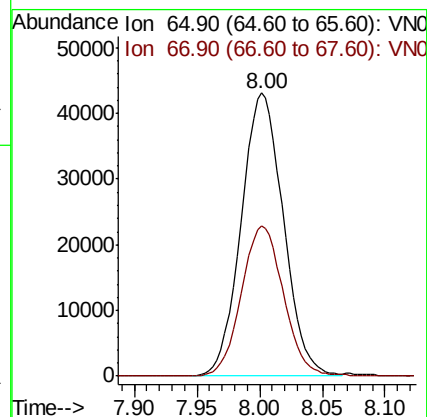
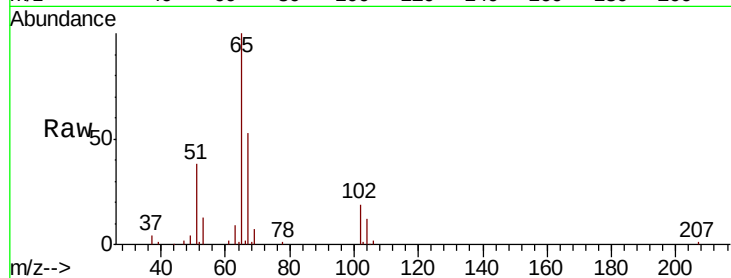




#33
 1,2-Dichloroethane-d4
 Concen: 48.240 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060933.D
 Acq: 14 Apr 2020 15:07

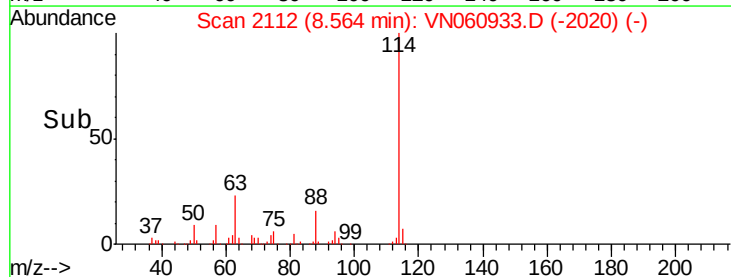
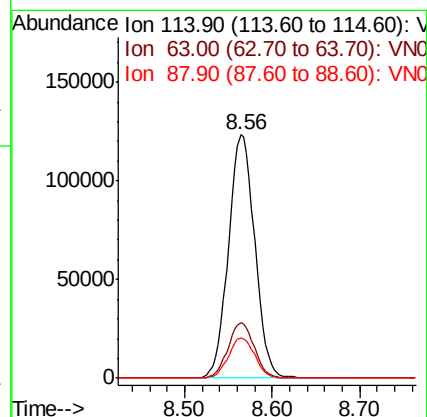
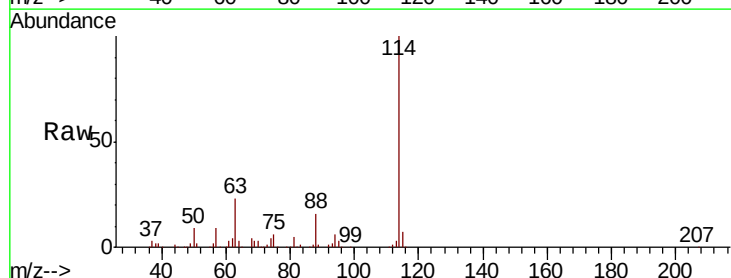
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-32

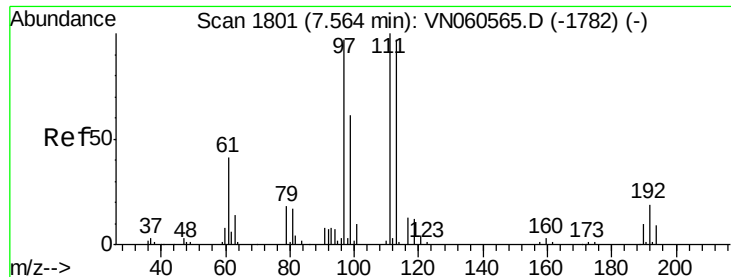
Tot Ion: 65 Resp: 100835
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060933.D
 Acq: 14 Apr 2020 15:07

Tgt Ion: 114 Resp: 257723
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 43.8
 88 16.4 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.449 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060933.D

Acq: 14 Apr 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

TP-32

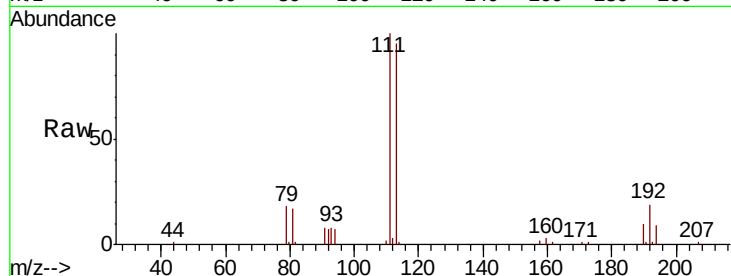
Tot Ion:113 Resp: 75502

Ion Ratio Lower Upper

113 100

111 104.2 82.9 124.3

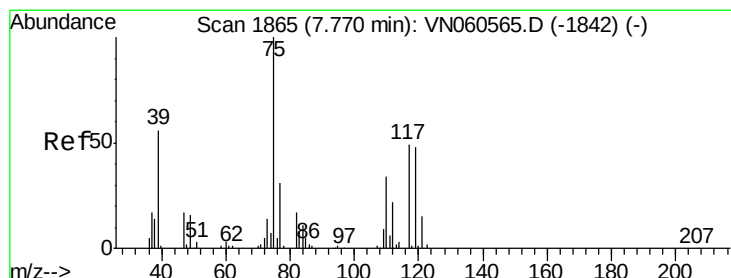
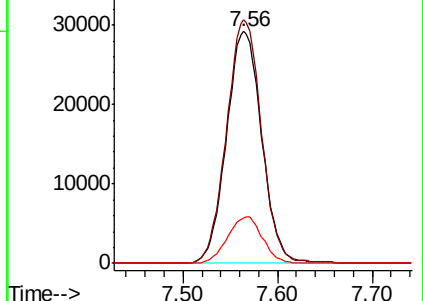
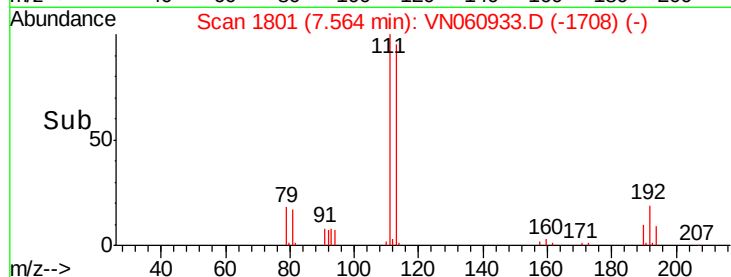
192 19.7 15.8 23.8



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: 4.850 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060933.D

Acq: 14 Apr 2020 15:07

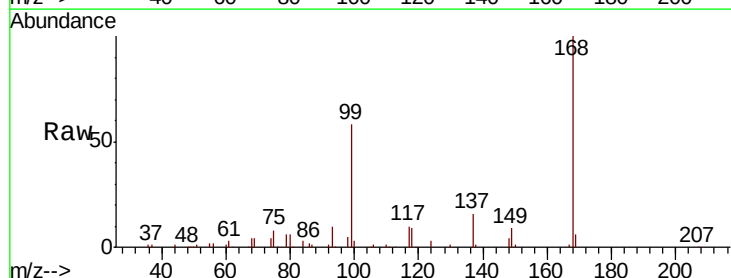
Tgt Ion: 75 Resp: 12104

Ion Ratio Lower Upper

75 100

110 6.8 16.9 50.6#

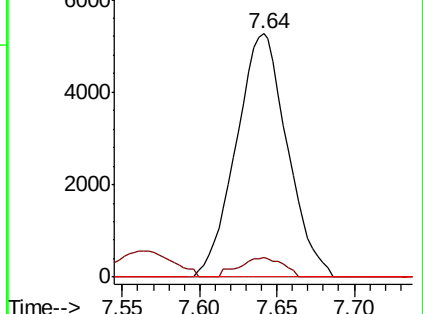
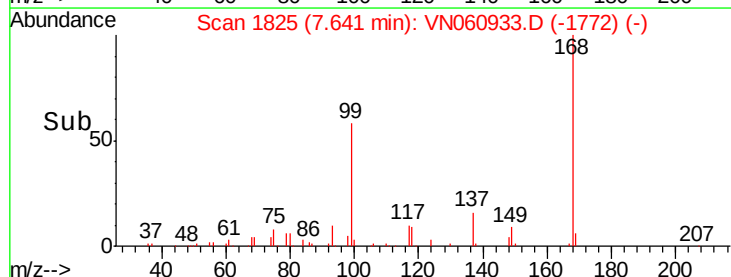
77 0.0 24.6 36.8#

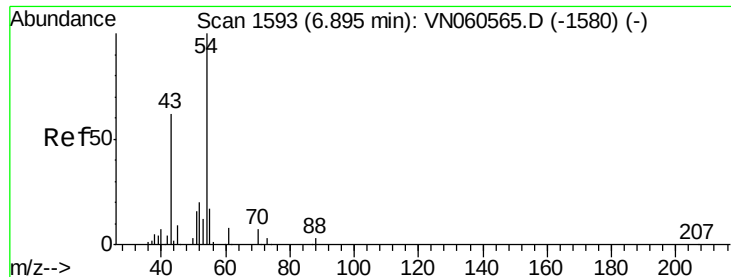


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0

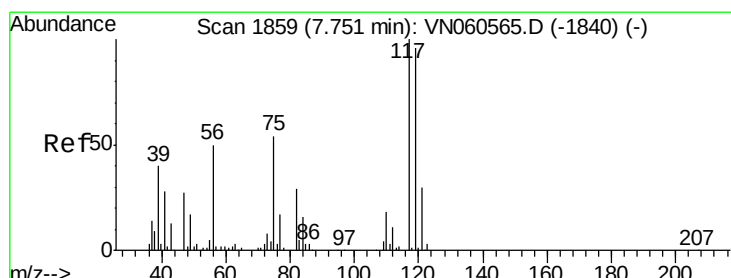
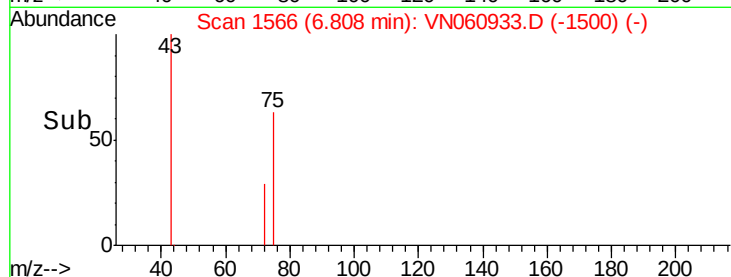
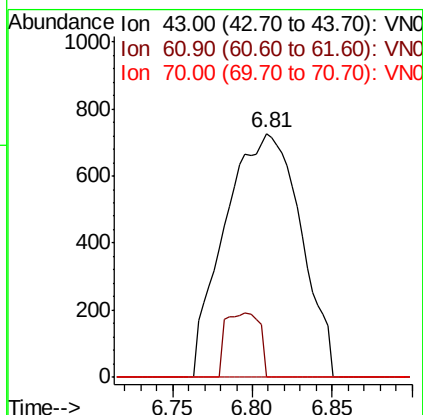
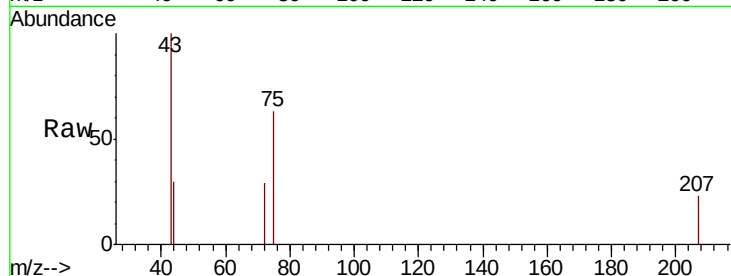




#37
Ethyl Acetate
Concen: 0.879 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.09 min
Lab File: VN060933.D
Acq: 14 Apr 2020 15:07

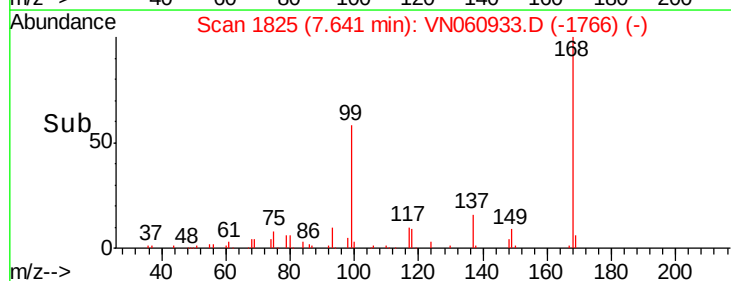
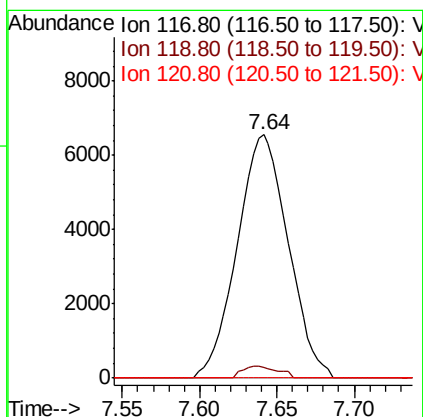
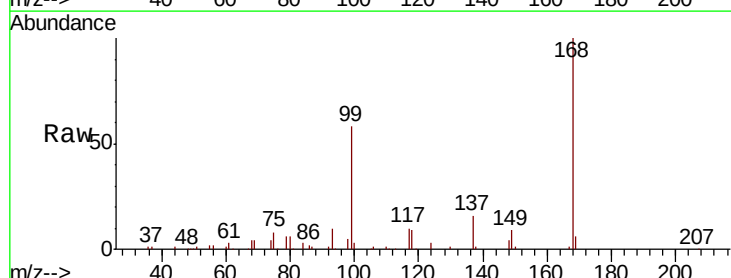
Instrument :
MSVOA_N
ClientSampled :
TP-32

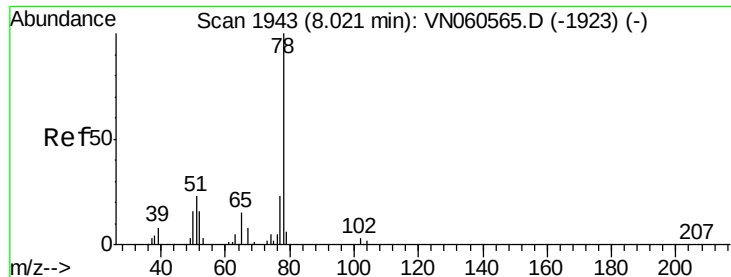
Tot Ion: 43 Resp: 2369
Ion Ratio Lower Upper
43 100
61 11.7 10.6 15.8
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.712 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060933.D
Acq: 14 Apr 2020 15:07

Tgt Ion: 117 Resp: 15013
Ion Ratio Lower Upper
117 100
119 4.2 76.2 114.2#
121 0.0 23.7 35.5#





#40

Benzene

Concen: 0.222 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VN060933.D

Acq: 14 Apr 2020 15:07

Instrument :

MSVOA_N

ClientSampled :

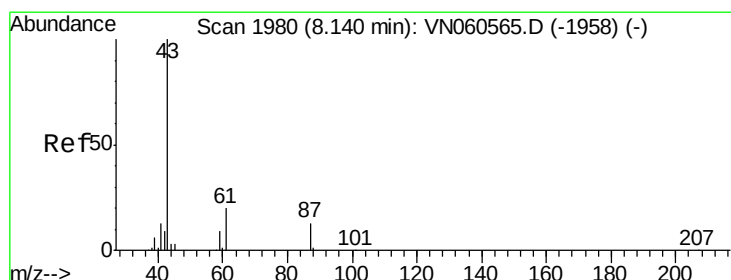
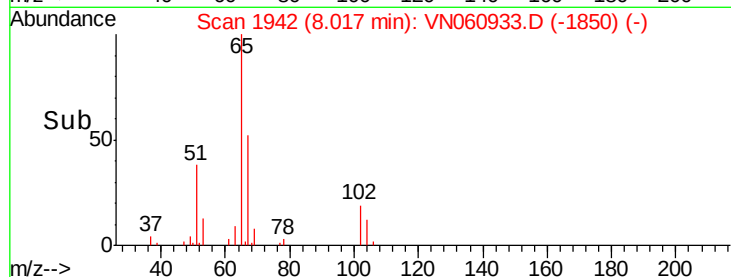
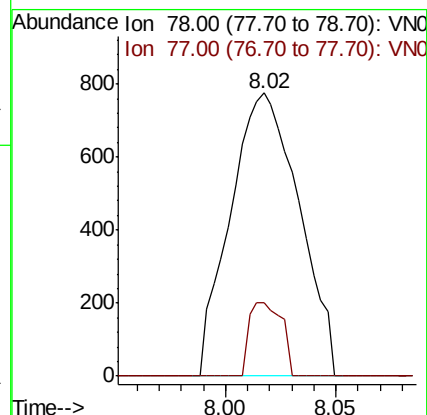
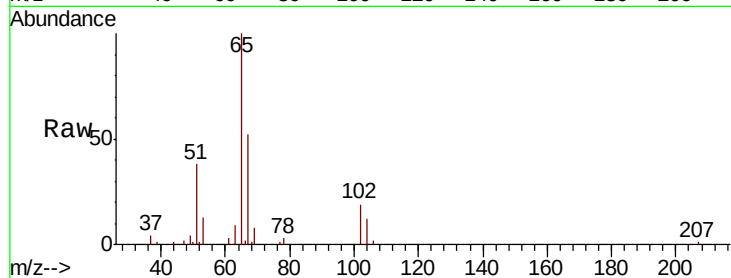
TP-32

Tot Ion: 78 Resp: 1675

Ion Ratio Lower Upper

78 100

77 25.9 18.6 28.0



#43

Isopropyl Acetate

Concen: 9.920 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060933.D

Acq: 14 Apr 2020 15:07

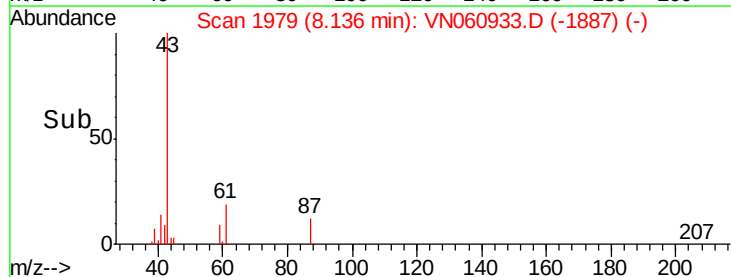
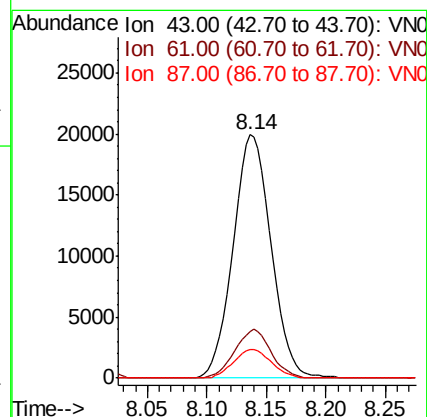
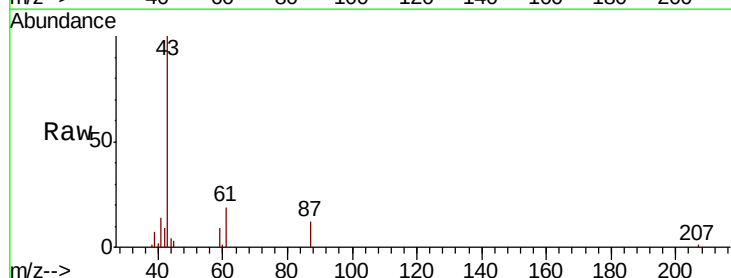
Tgt Ion: 43 Resp: 44117

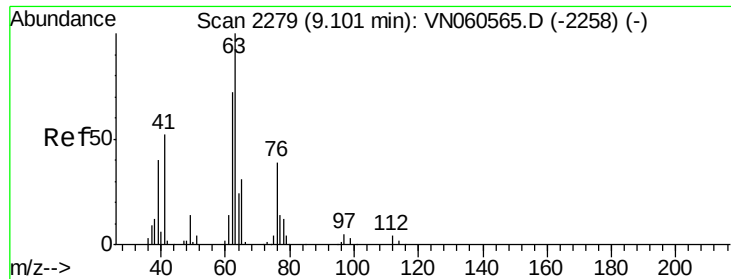
Ion Ratio Lower Upper

43 100

61 19.0 20.7 31.1#

87 11.6 9.8 14.8

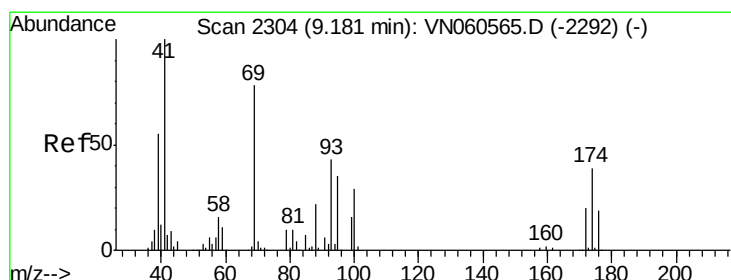
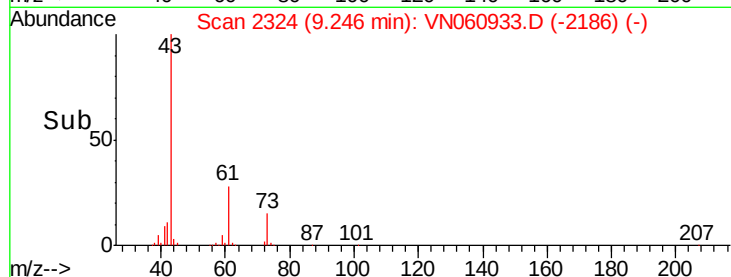
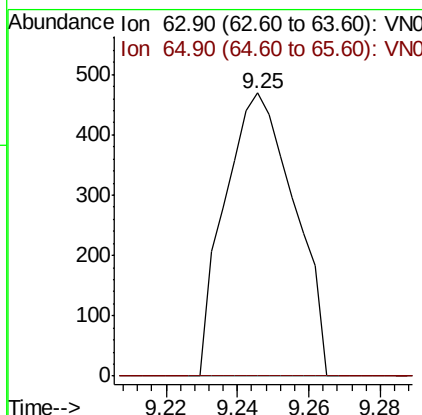
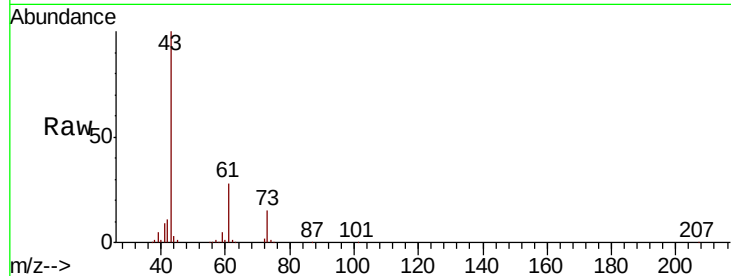




#45
 1,2-Dichloropropane
 Concen: 0.316 ug/l
 RT: 9.25 min Scan# 2324
 Delta R.T. 0.14 min
 Lab File: VN060933.D
 Acq: 14 Apr 2020 15:07

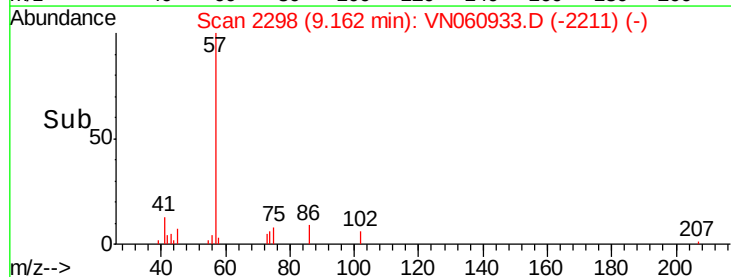
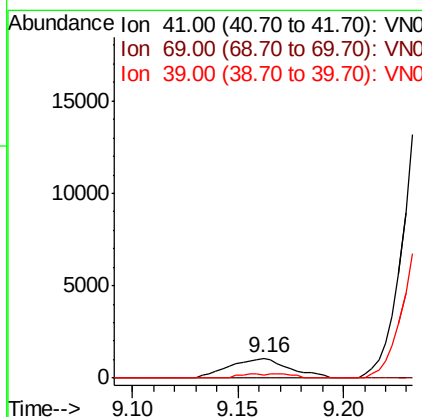
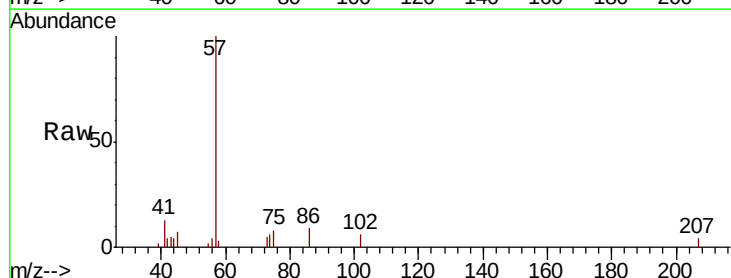
Instrument :
 MSVOA_N
 ClientSampled :
 TP-32

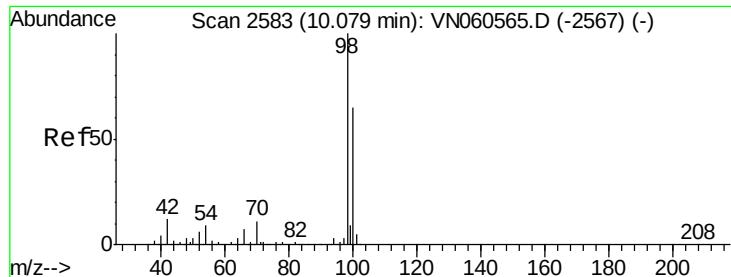
Tot Ion: 63 Resp: 629
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.4 38.0#



#48
 Methyl methacrylate
 Concen: 1.059 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN060933.D
 Acq: 14 Apr 2020 15:07

Tgt Ion: 41 Resp: 2096
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.4 98.0#
 39 0.0 44.0 66.0#

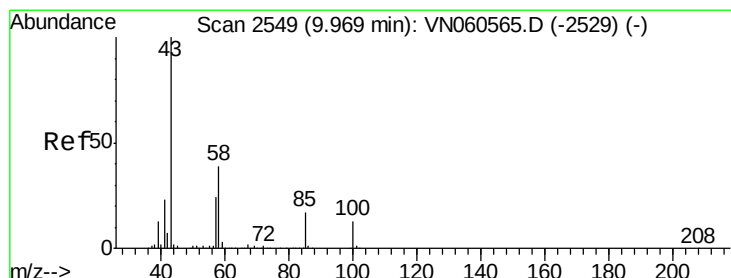
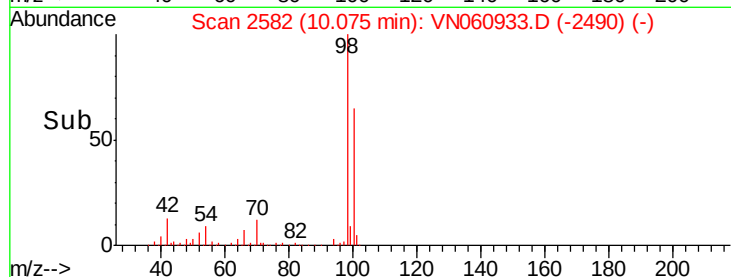
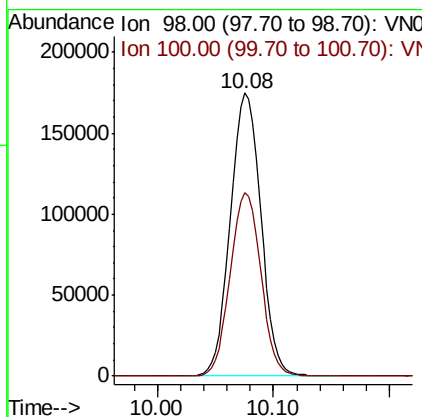
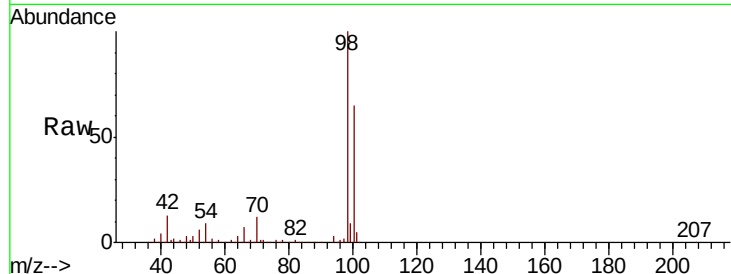




#50
Toluene-d8
Concen: 50.121 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060933.D
Acq: 14 Apr 2020 15:07

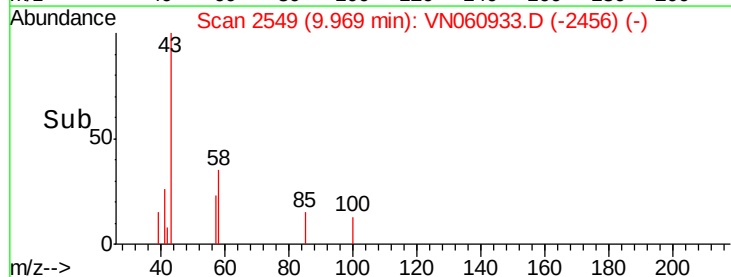
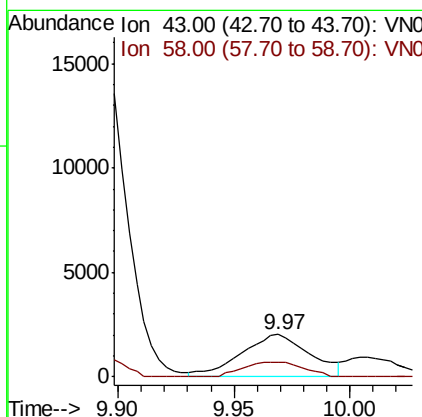
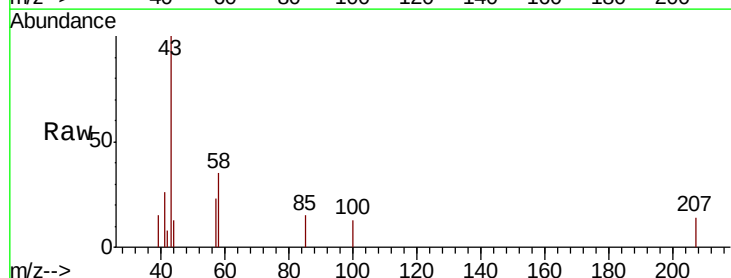
Instrument :
MSVOA_N
ClientSampled :
TP-32

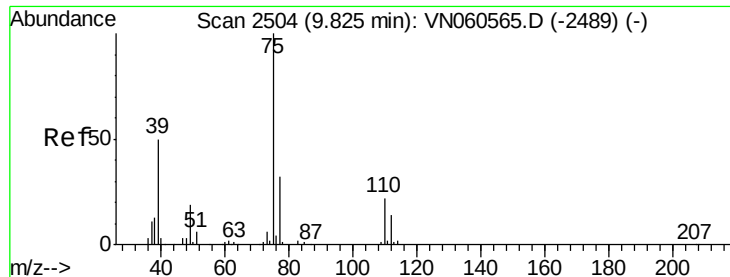
Tot Ion: 98 Resp: 319035
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.650 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. -0.00 min
Lab File: VN060933.D
Acq: 14 Apr 2020 15:07

Tgt Ion: 43 Resp: 4176
Ion Ratio Lower Upper
43 100
58 30.8 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 5.371 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060933.D

Acq: 14 Apr 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

TP-32

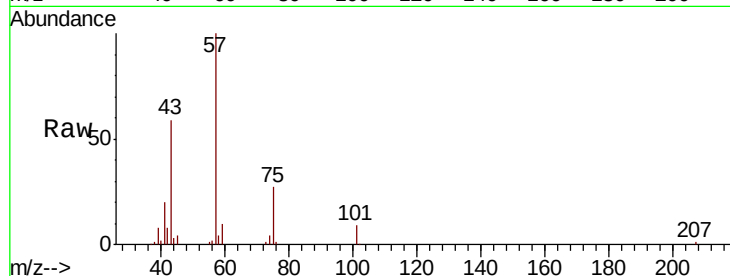
Tot Ion: 75 Resp: 16901

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

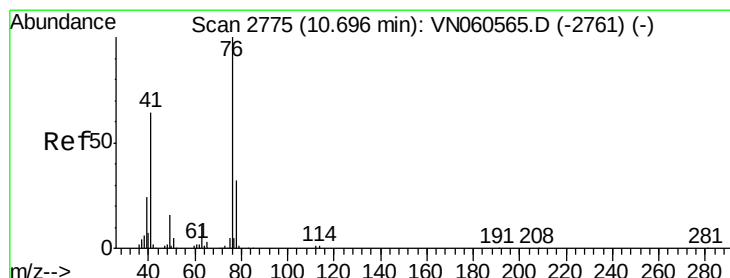
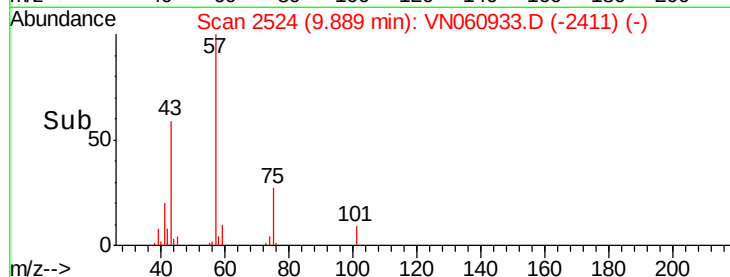
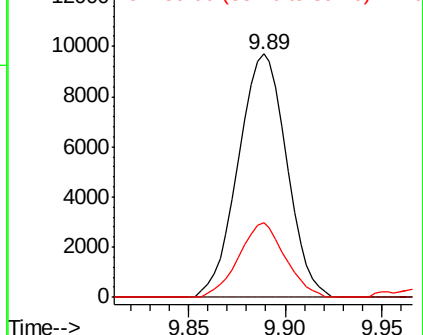
39 30.7 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060933.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060933.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060933.D (-2411) (-)



#57

1,3-Dichloropropane

Concen: 0.704 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060933.D

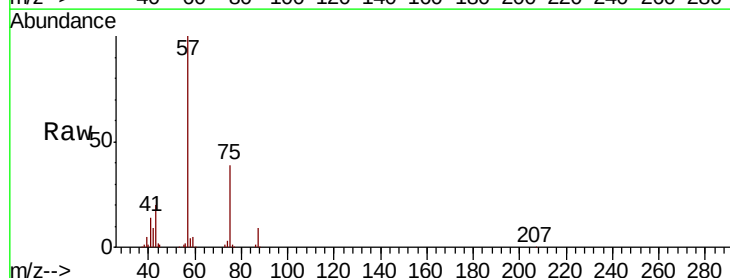
Acq: 14 Apr 2020 15:07

Tgt Ion: 76 Resp: 2138

Ion Ratio Lower Upper

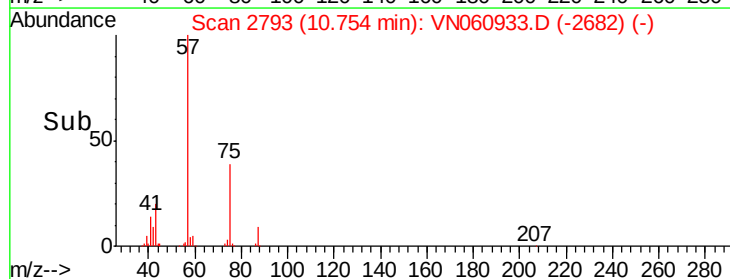
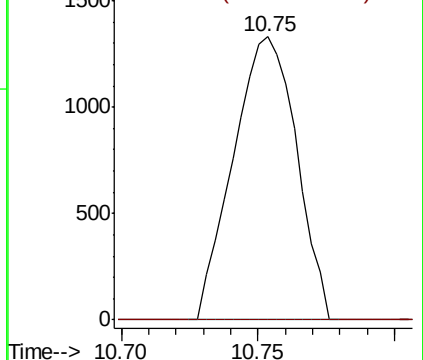
76 100

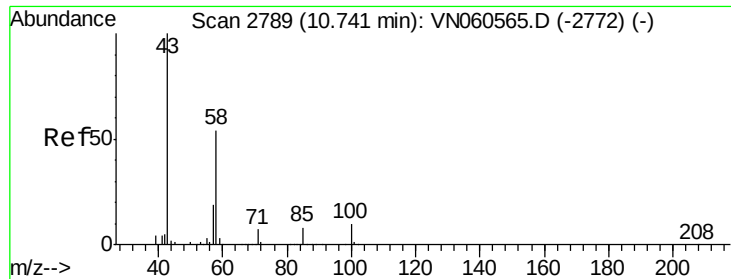
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060933.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060933.D (-2682) (-)

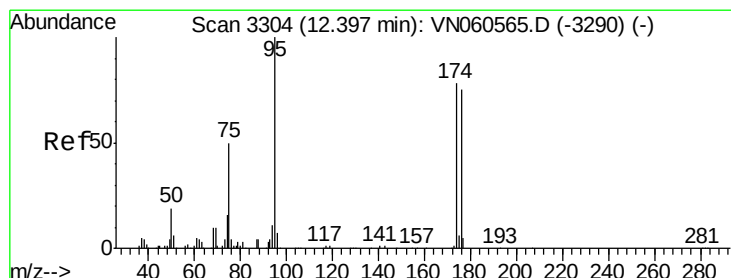
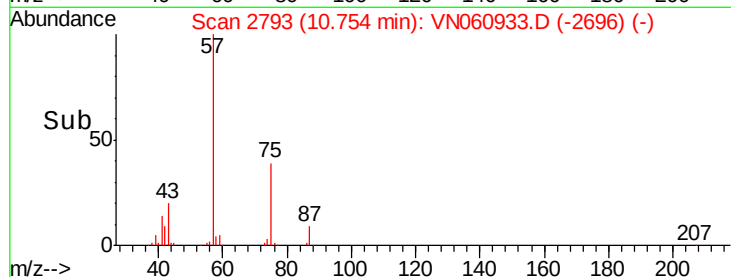
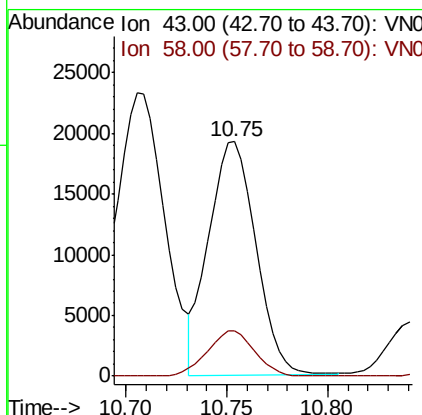
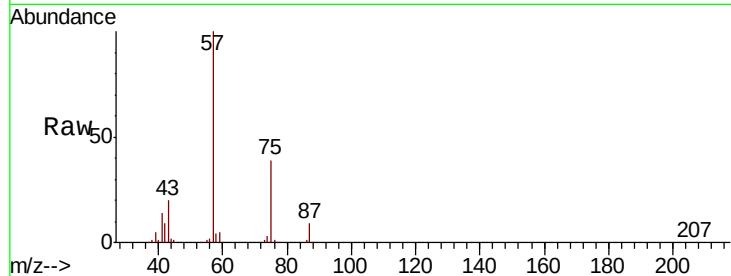




#59
2-Hexanone
Concen: 17.206 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060933.D
Acq: 14 Apr 2020 15:07

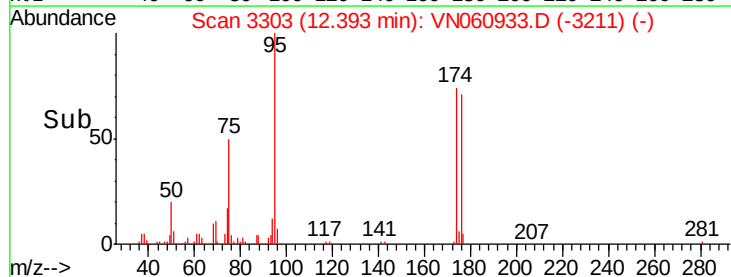
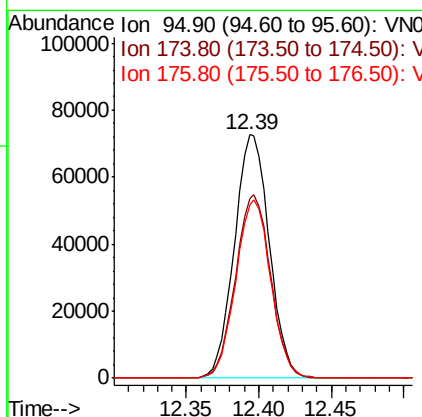
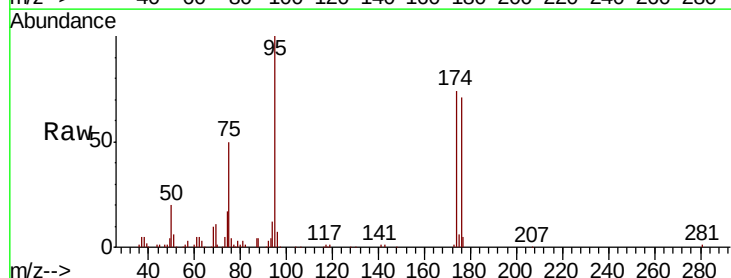
Instrument :
MSVOA_N
ClientSampled :
TP-32

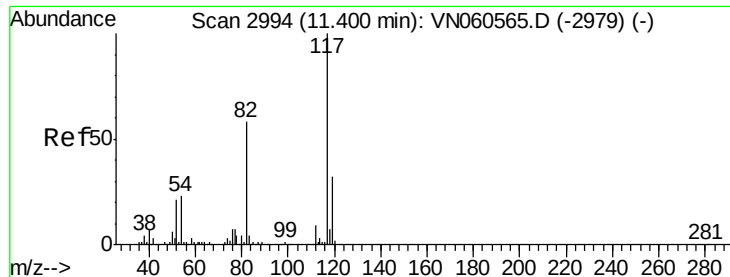
Tot Ion: 43 Resp: 31364
Ion Ratio Lower Upper
43 100
58 19.3 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 52.189 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. -0.00 min
Lab File: VN060933.D
Acq: 14 Apr 2020 15:07

Tgt Ion: 95 Resp: 121746
Ion Ratio Lower Upper
95 100
174 75.9 0.0 157.6
176 73.1 0.0 150.6

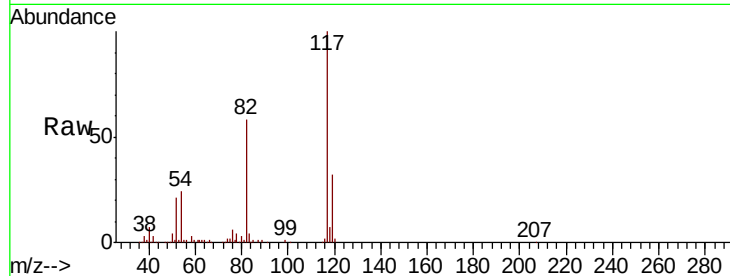




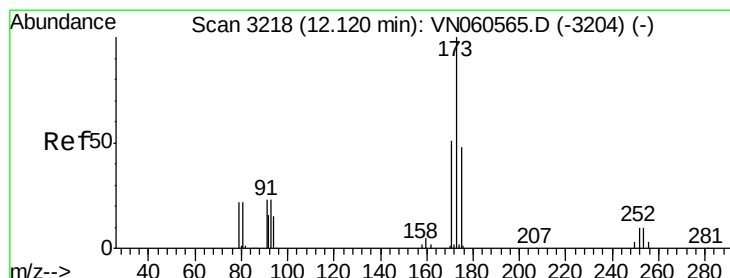
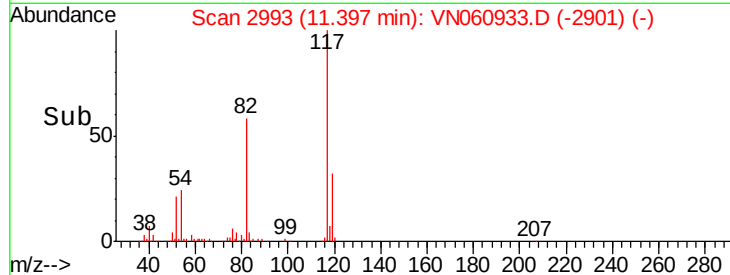
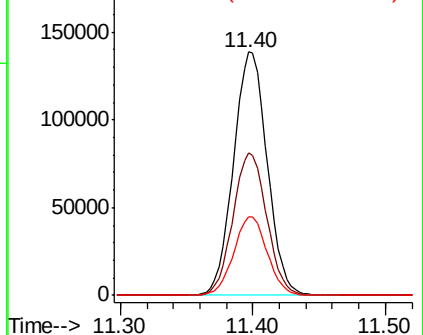
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060933.D
Acq: 14 Apr 2020 15:07

Instrument :
MSVOA_N
ClientSampled :
TP-32

Tot Ion:117 Resp: 244392
Ion Ratio Lower Upper
117 100
82 58.3 46.7 70.1
119 32.4 25.5 38.3

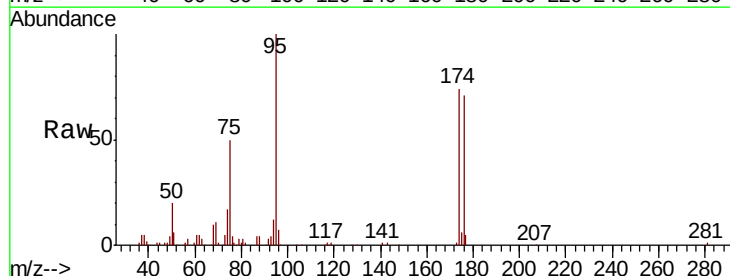


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

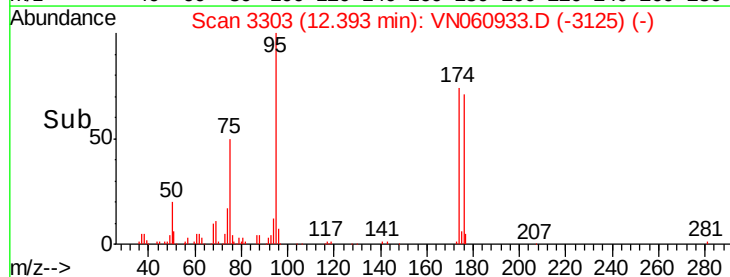
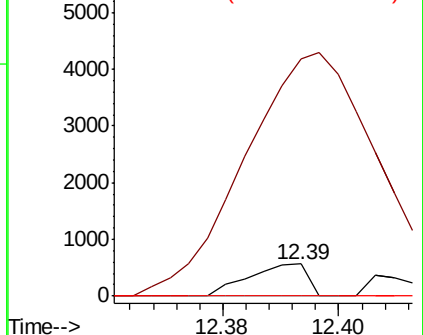


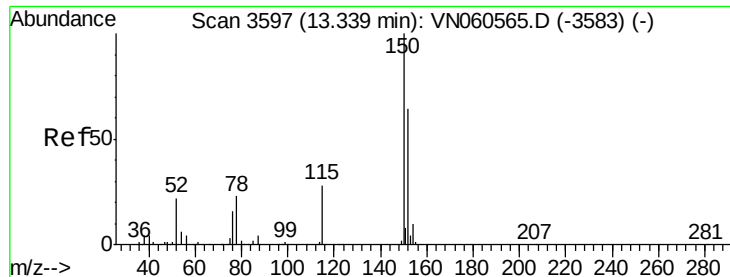
#71
Bromoform
Concen: 1.945 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060933.D
Acq: 14 Apr 2020 15:07

Tgt Ion:173 Resp: 399
Ion Ratio Lower Upper
173 100
175 1514.0 24.1 72.4#
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

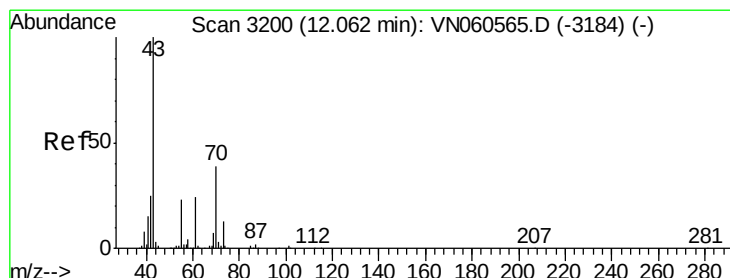
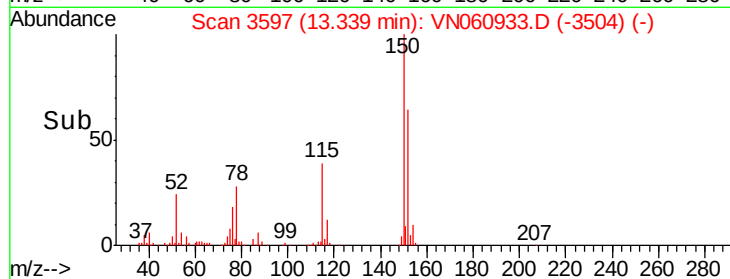
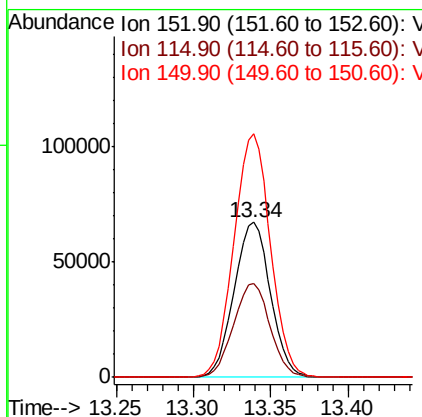
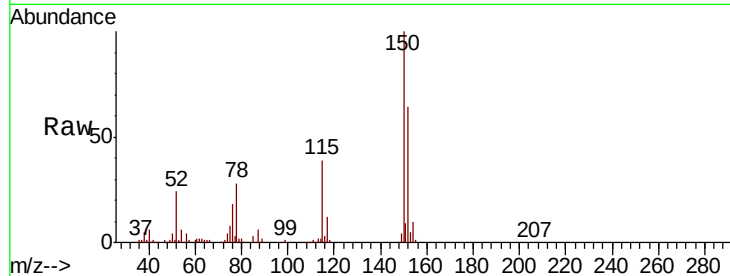




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. -0.00 min
 Lab File: VN060933.D
 Acq: 14 Apr 2020 15:07

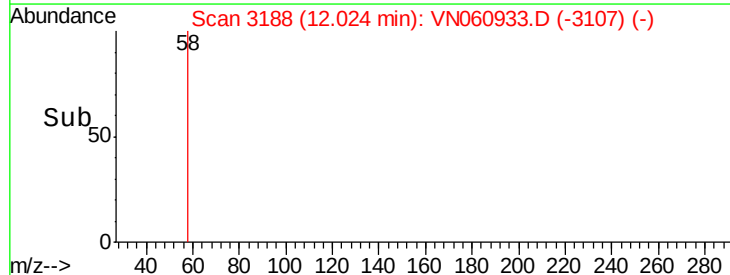
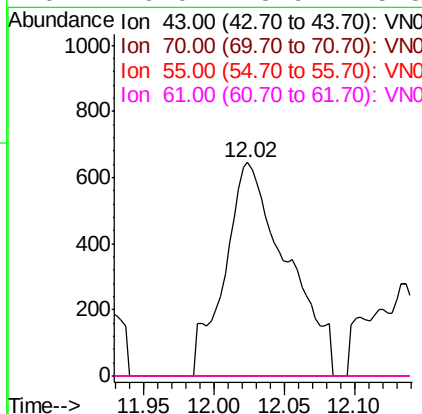
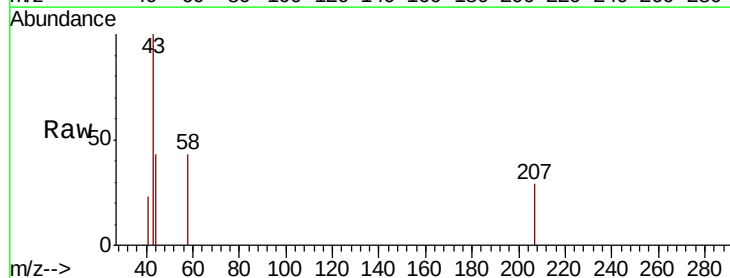
Instrument :
 MSVOA_N
 ClientSampled :
 TP-32

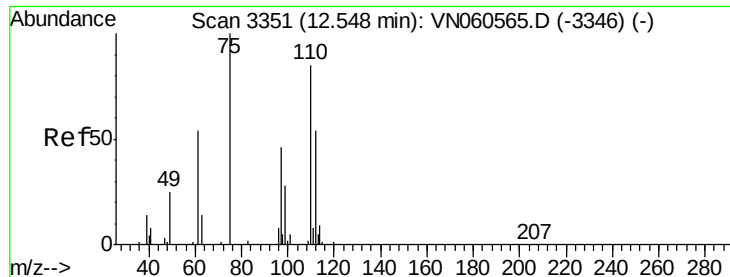
Tot Ion	Ratio	Lower	Upper
152	100		
115	60.8	30.2	90.6
150	157.8	0.0	350.2



#74
 N-ethyl acetate
 Concen: 0.523 ug/l
 RT: 12.02 min Scan# 3188
 Delta R.T. -0.04 min
 Lab File: VN060933.D
 Acq: 14 Apr 2020 15:07

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.1	46.7#
55	0.0	18.6	27.8#
61	0.0	18.9	28.3#





#76

1,2,3-Trichloropropane

Concen: 26.320 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060933.D

Acq: 14 Apr 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

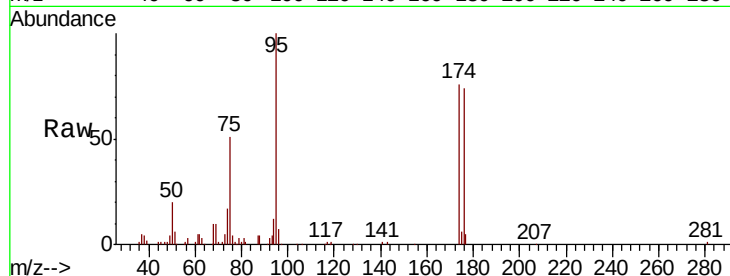
TP-32

Tot Ion: 75 Resp: 62245

Ion Ratio Lower Upper

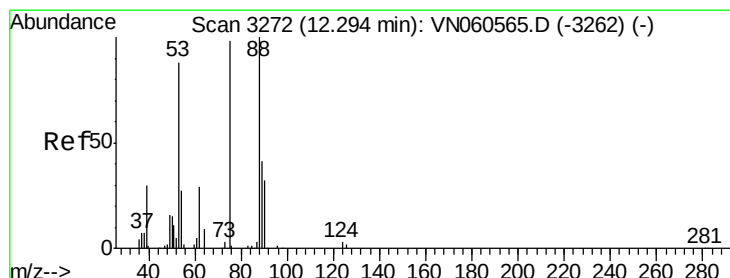
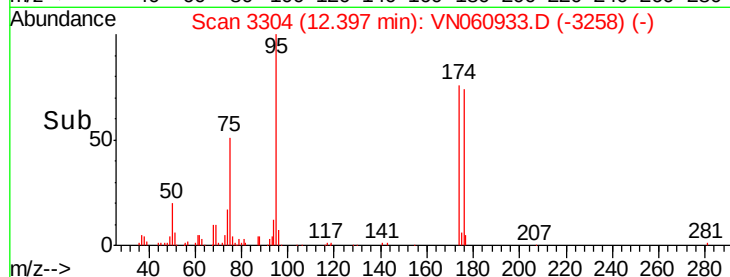
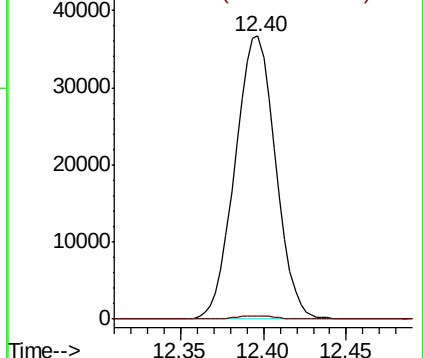
75 100

77 1.0 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: 67.597 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060933.D

Acq: 14 Apr 2020 15:07

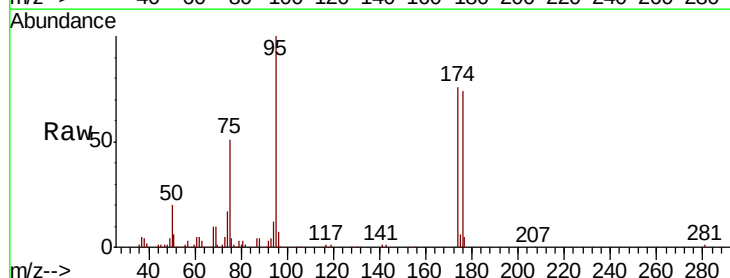
Tgt Ion: 75 Resp: 62245

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

