

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031020\
 Data File : VN060429.D
 Acq On : 10 Mar 2020 19:55
 Operator : JC/MD
 Sample : L1852-12
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2-D

Quant Time: Mar 11 06:43:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	190403	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	312518	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	298064	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	141454	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	124012	50.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.52%	
35) Dibromofluoromethane	7.57	113	92626	63.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	127.70%	
50) Toluene-d8	10.08	98	388507	52.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.84%	
62) 4-Bromofluorobenzene	12.40	95	147381	52.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.92%	

Target Compounds

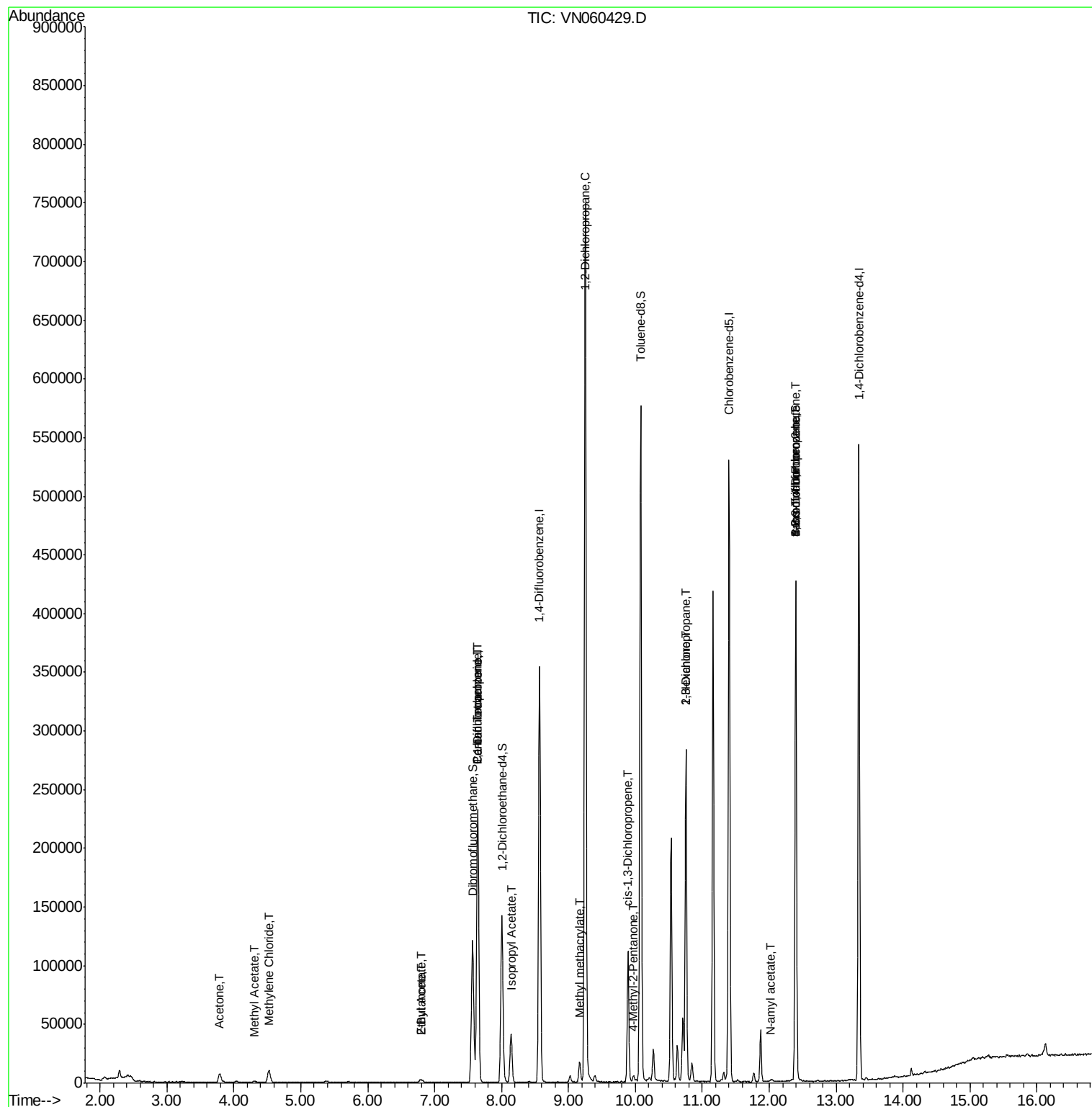
						Qvalue
16) Acetone	3.79	43	14362	18.205	ug/l	94
17) Carbon Disulfide	4.03	76	2785	Below Cal	#	75
18) Methyl Acetate	4.29	43	738	0.280	ug/l #	61
20) Methylene Chloride	4.53	84	7585	3.501	ug/l	96
25) 2-Butanone	6.81	43	3854	3.025	ug/l	95
31) Cyclohexane	7.64	56	4009	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	14970	5.026	ug/l #	47
37) Ethyl Acetate	6.81	43	3854	1.367	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18036	6.220	ug/l #	16
43) Isopropyl Acetate	8.14	43	49830	10.093	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	916	0.404	ug/l #	44
48) Methyl methacrylate	9.16	41	2585	1.148	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2987	1.067	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	19569	5.153	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	2818	0.789	ug/l #	42
59) 2-Hexanone	10.75	43	42763	20.806	ug/l #	52
71) Bromoform	12.39	173	393	0.245	ug/l #	1
74) N-amyl acetate	12.02	43	2143	0.468	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	75195	24.229	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	75195	66.883	ug/l #	8
95) Naphthalene	15.13	128	367	Below Cal	#	69

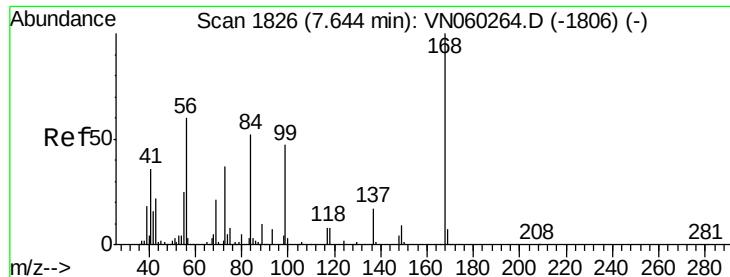
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Feb 27 13:52:50 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

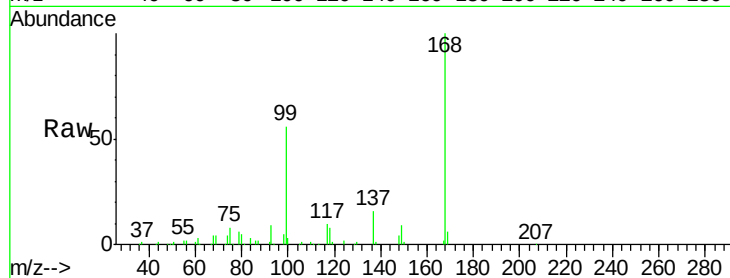
TP-2-D

Tgt Ion:168 Resp: 190403

Ion Ratio Lower Upper

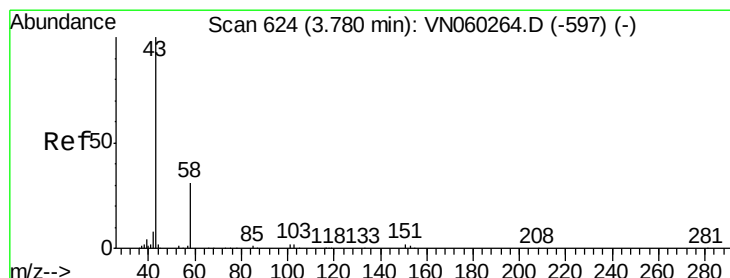
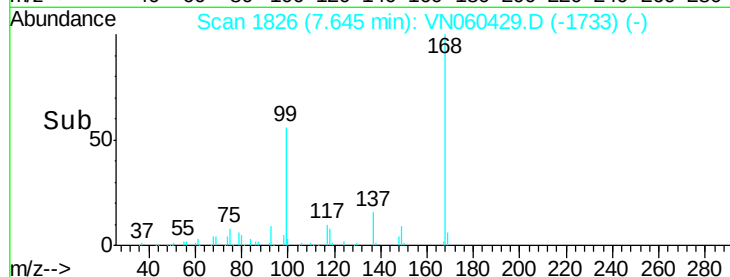
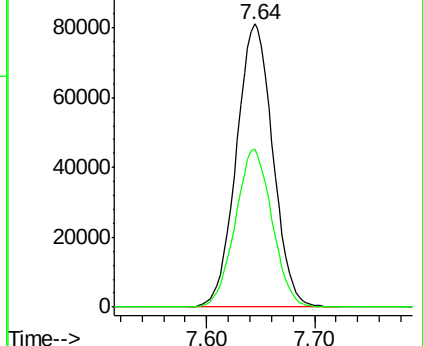
168 100

99 55.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 18.205 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060429.D

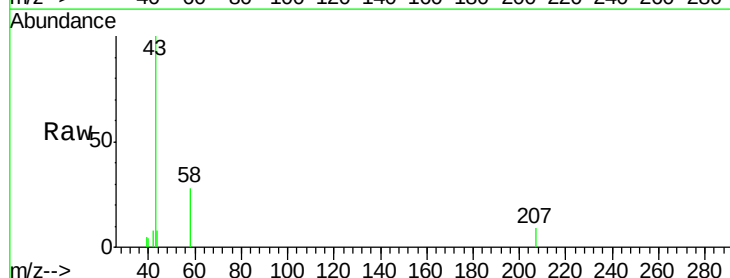
Acq: 10 Mar 2020 19:55

Tgt Ion: 43 Resp: 14362

Ion Ratio Lower Upper

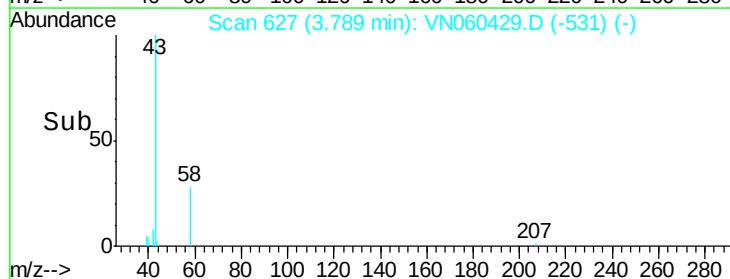
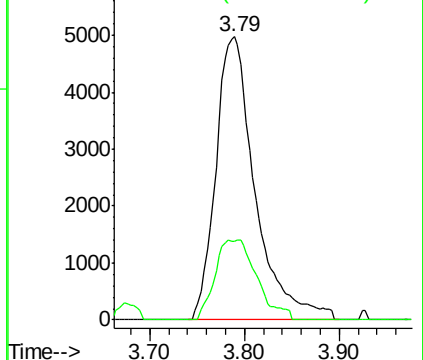
43 100

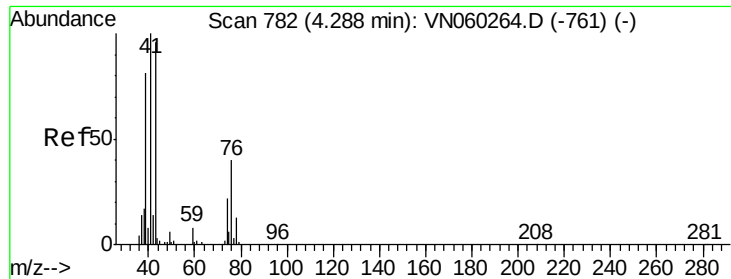
58 27.6 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

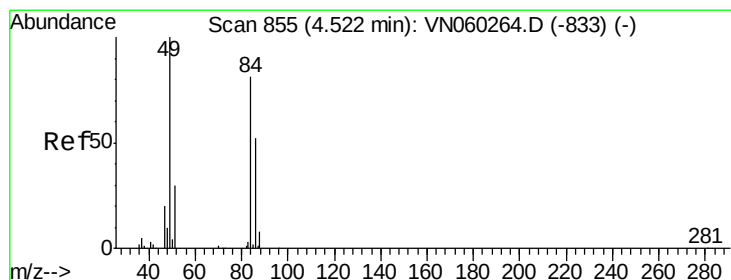
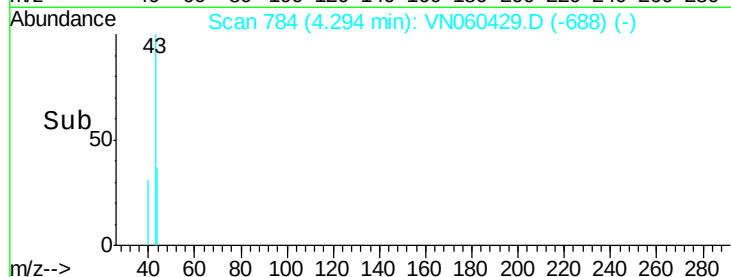
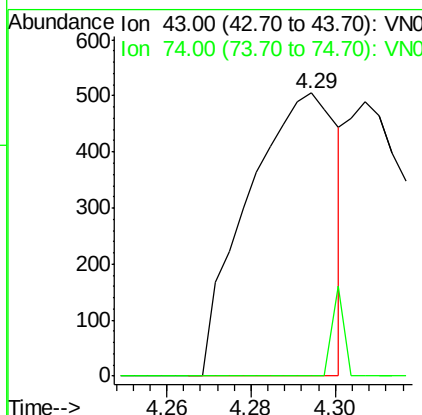
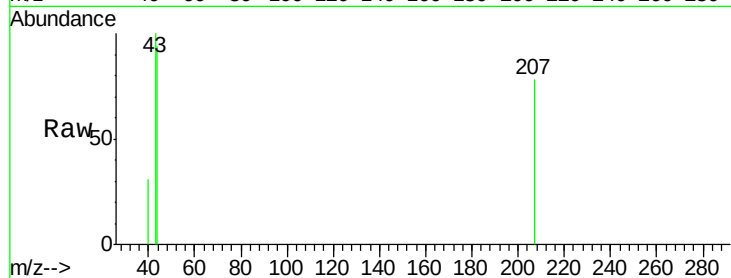




#18
Methyl Acetate
Concen: 0.280 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060429.D
Acq: 10 Mar 2020 19:55

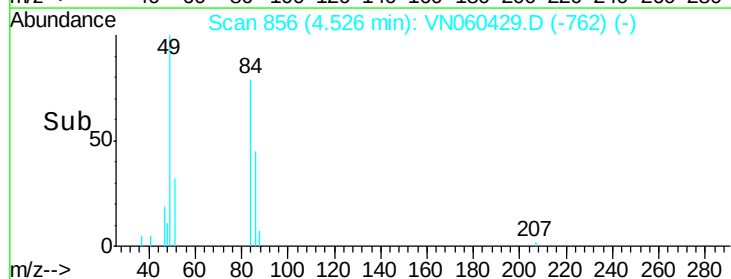
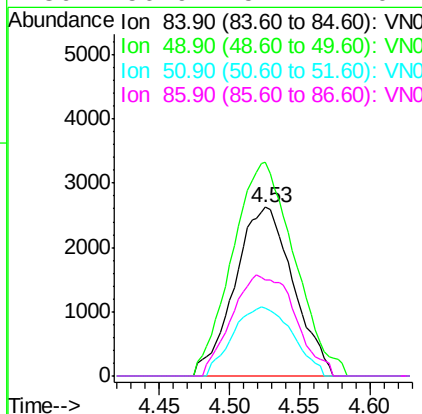
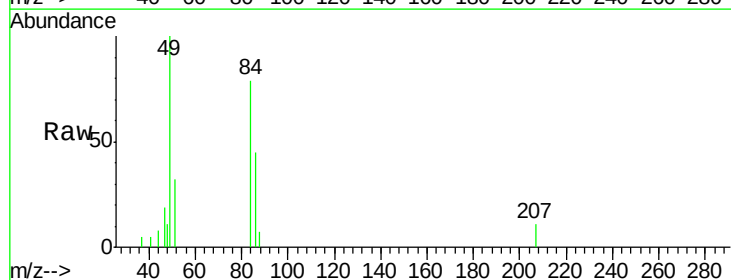
Instrument :
MSVOA_N
ClientSampleId :
TP-2-D

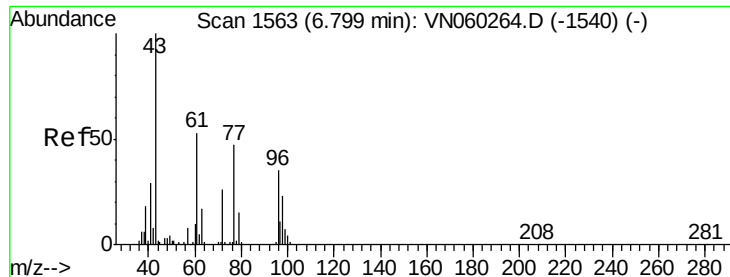
Tgt Ion: 43 Resp: 738
Ion Ratio Lower Upper
43 100
74 4.2 18.8 28.2#



#20
Methylene Chloride
Concen: 3.501 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060429.D
Acq: 10 Mar 2020 19:55

Tgt Ion: 84 Resp: 7585
Ion Ratio Lower Upper
84 100
49 126.5 99.3 148.9
51 40.1 30.1 45.1
86 56.9 51.1 76.7





#25

2-Butanone

Concen: 3.025 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

Instrument :

MSVOA_N

ClientSampled :

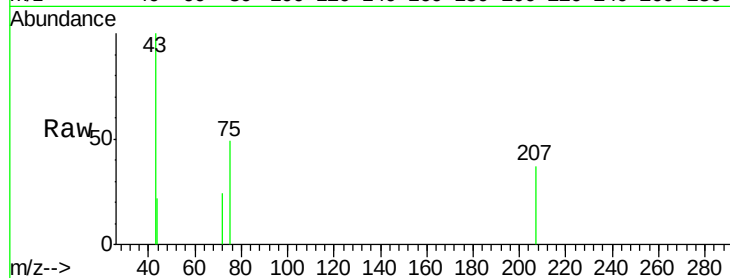
TP-2-D

Tgt Ion: 43 Resp: 3854

Ion Ratio Lower Upper

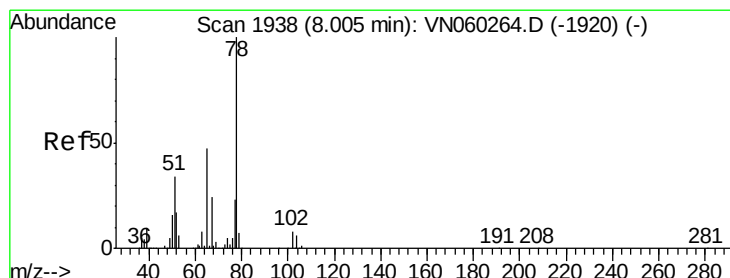
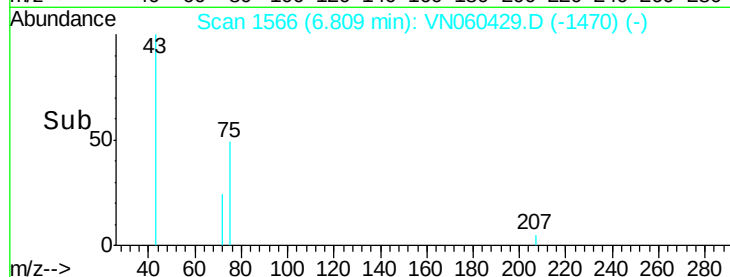
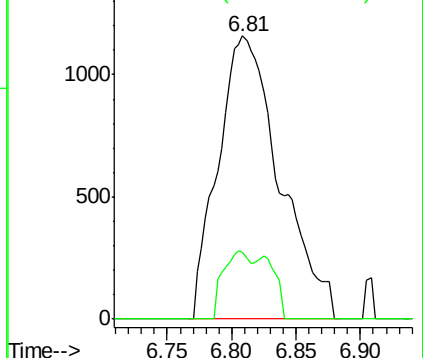
43 100

72 23.7 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 50.764 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060429.D

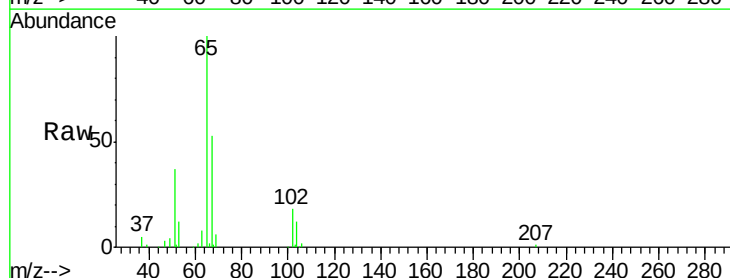
Acq: 10 Mar 2020 19:55

Tgt Ion: 65 Resp: 124012

Ion Ratio Lower Upper

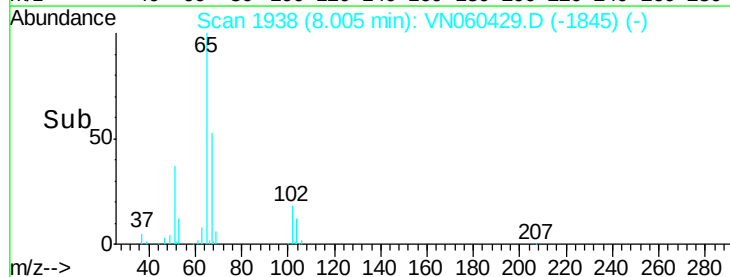
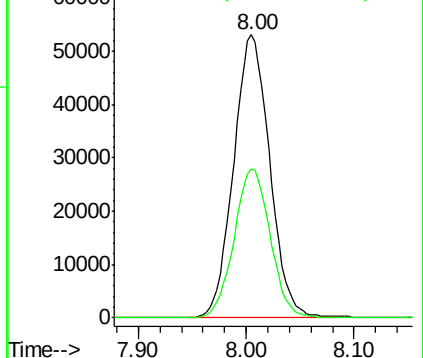
65 100

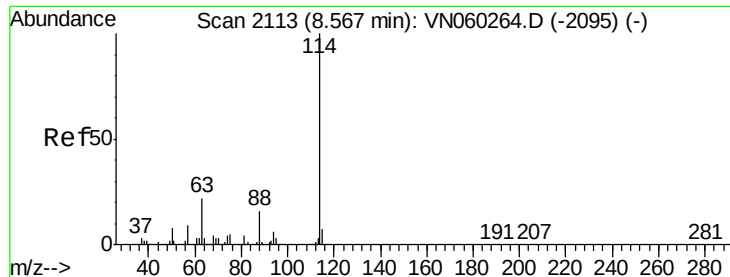
67 52.6 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

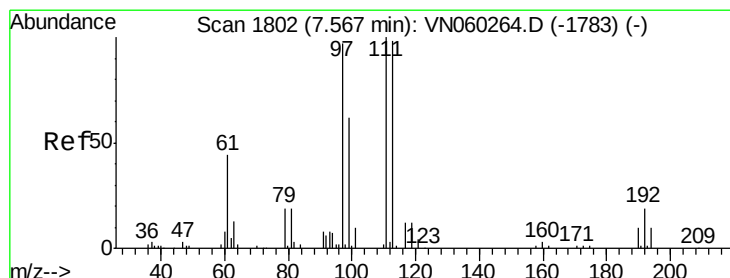
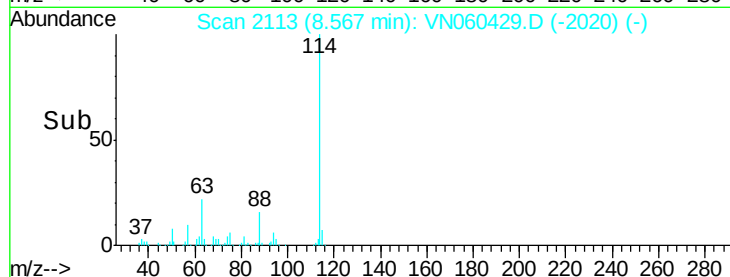
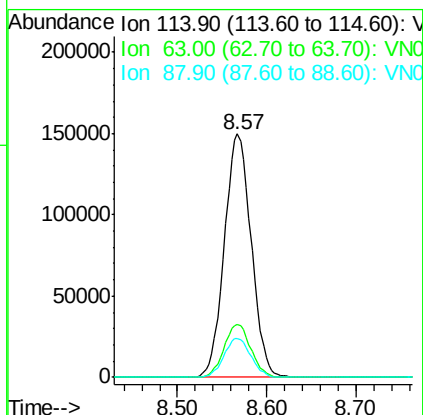
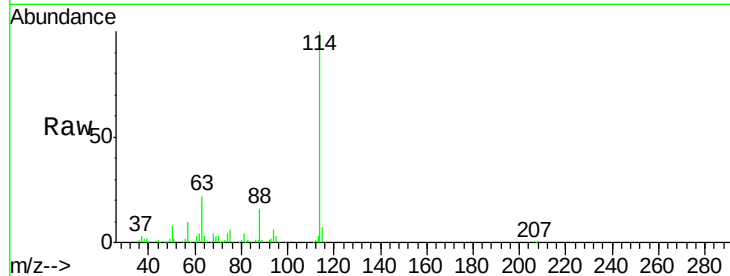




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060429.D
 Acq: 10 Mar 2020 19:55

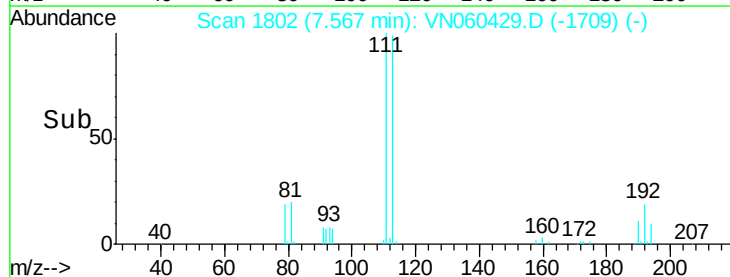
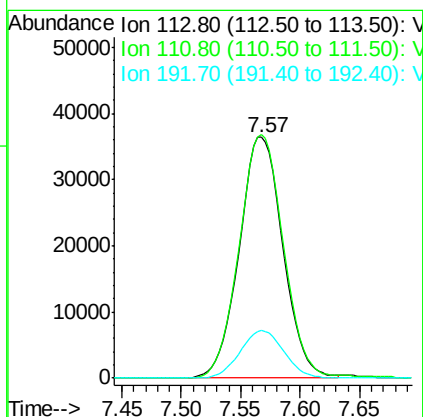
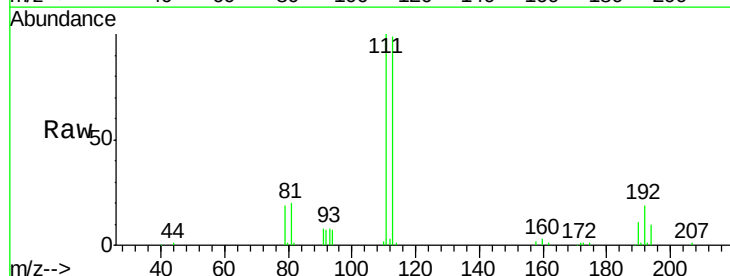
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2-D

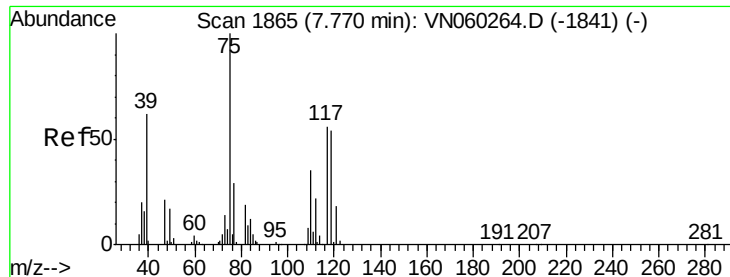
Tgt Ion:114 Resp: 312518
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 43.2
 88 16.1 0.0 31.6



#35
 Dibromofluoromethane
 Concen: 63.853 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060429.D
 Acq: 10 Mar 2020 19:55

Tgt Ion:113 Resp: 92626
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.4 123.6
 192 19.8 16.2 24.2





#36

1,1-Dichloropropene

Concen: 5.026 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

Instrument :

MSVOA_N

ClientSampled :

TP-2-D

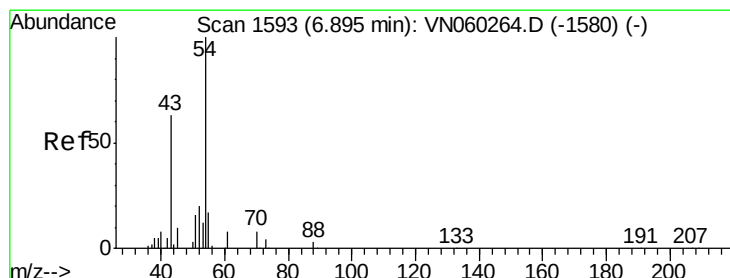
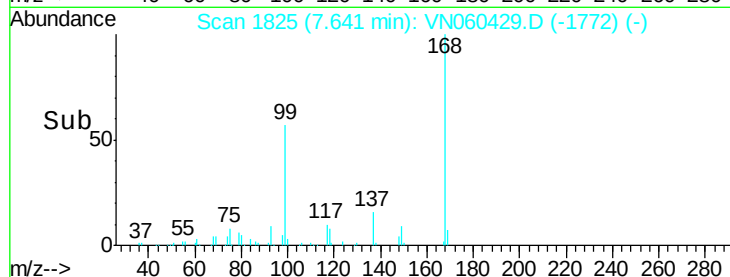
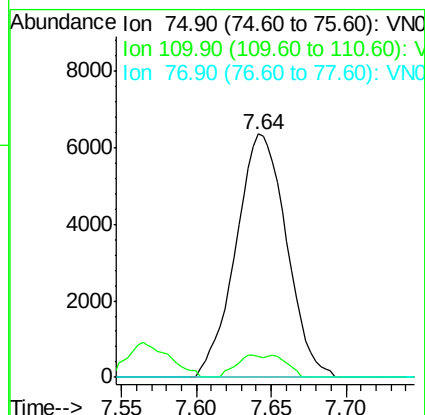
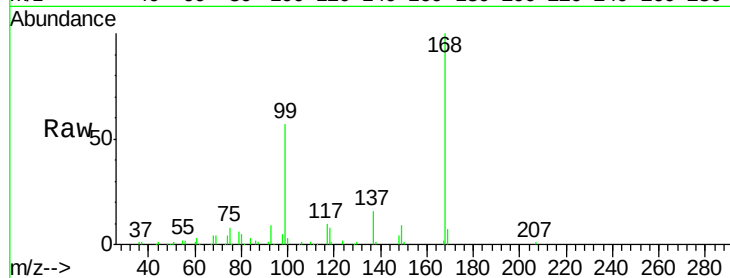
Tgt Ion: 75 Resp: 14970

Ion Ratio Lower Upper

75 100

110 4.8 17.3 52.0#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 1.367 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.09 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

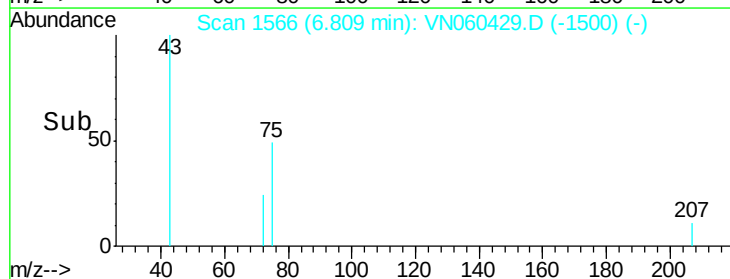
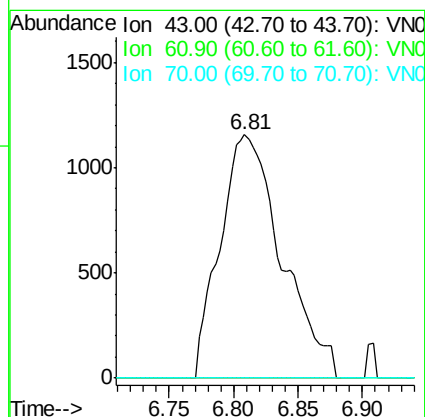
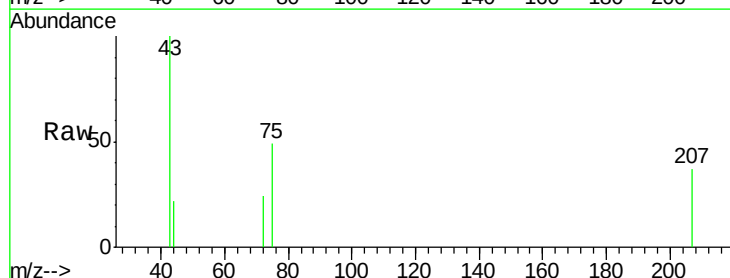
Tgt Ion: 43 Resp: 3854

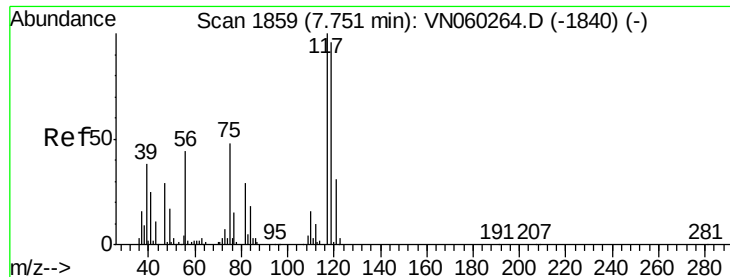
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 6.220 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

Instrument :

MSVOA_N

ClientSampled :

TP-2-D

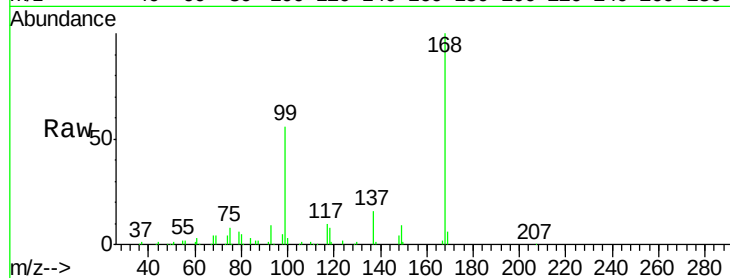
Tgt Ion:117 Resp: 18036

Ion Ratio Lower Upper

117 100

119 5.3 76.7 115.1#

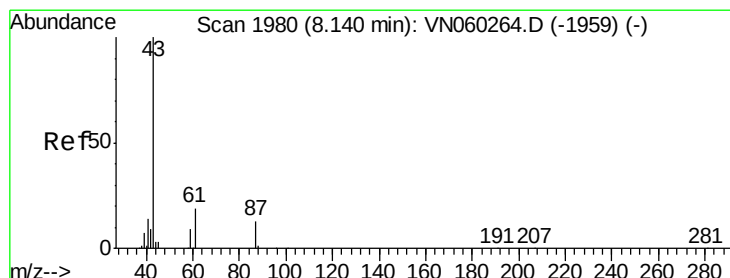
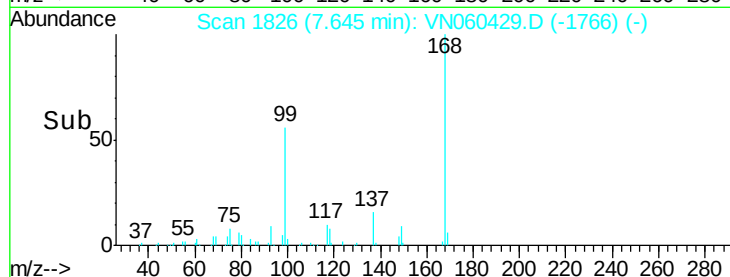
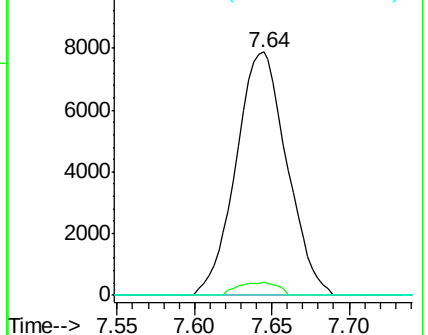
121 0.0 24.5 36.7#



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



#43

Isopropyl Acetate

Concen: 10.093 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

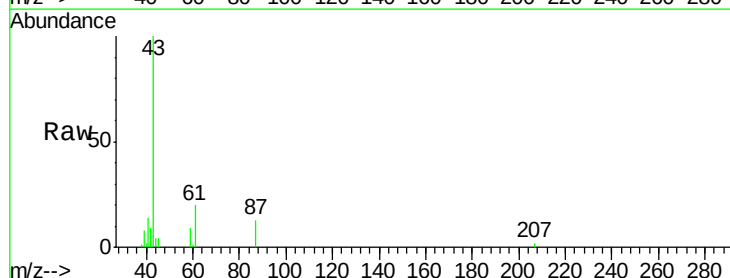
Tgt Ion: 43 Resp: 49830

Ion Ratio Lower Upper

43 100

61 19.8 20.9 31.3#

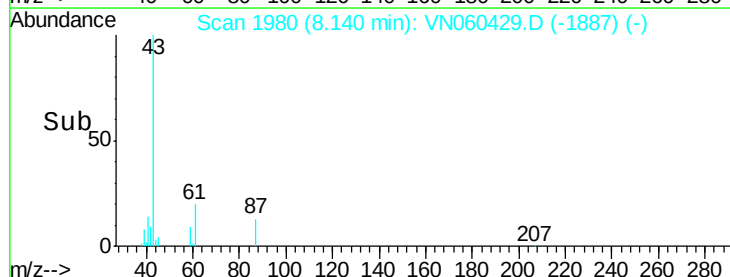
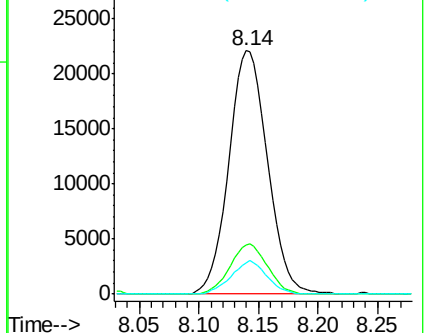
87 12.4 10.6 16.0

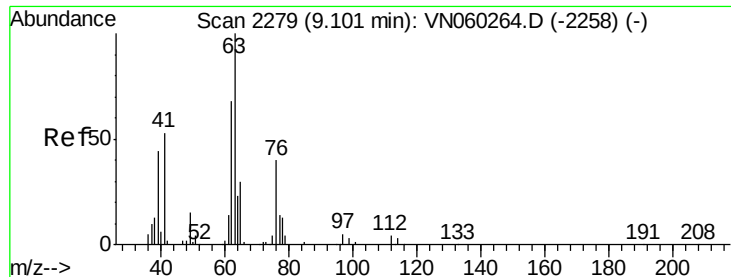


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.404 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

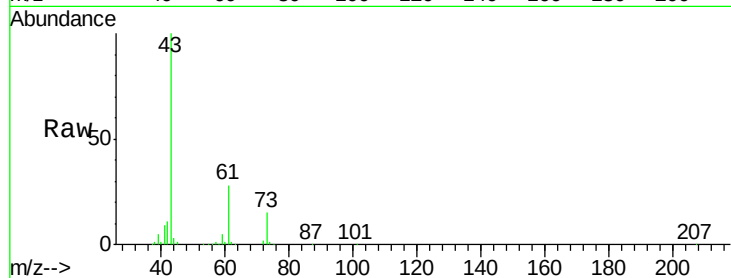
TP-2-D

Tgt Ion: 63 Resp: 916

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

500

400

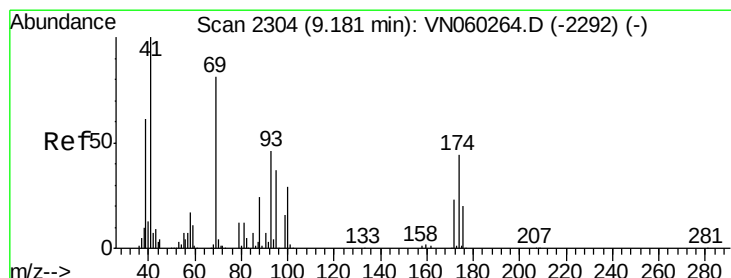
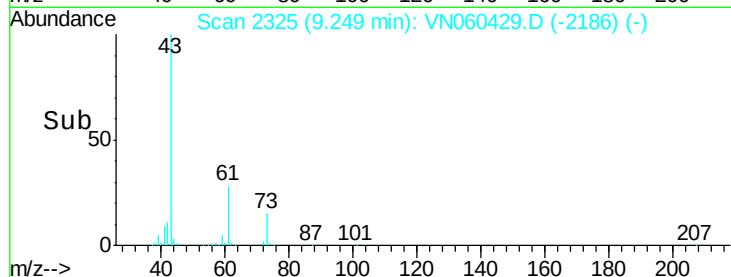
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.148 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

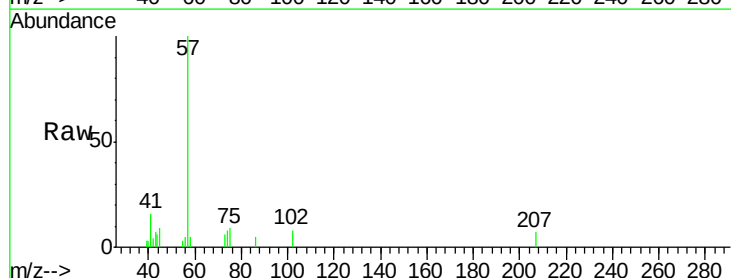
Tgt Ion: 41 Resp: 2585

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

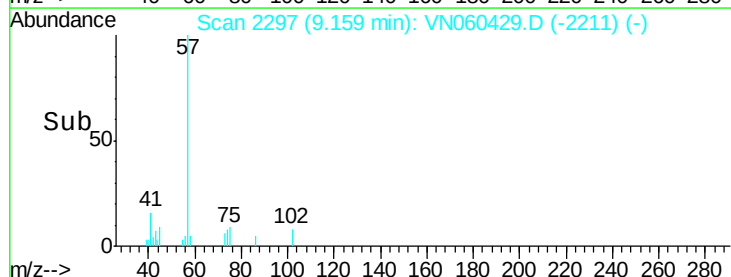
15000

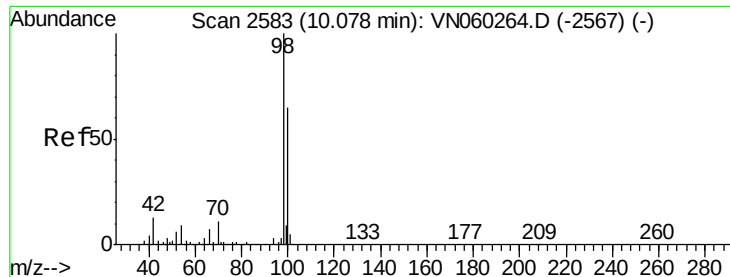
10000

5000

0

Time-->





#50

Toluene-d8

Concen: 52.918 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

Instrument :

MSVOA_N

ClientSampled :

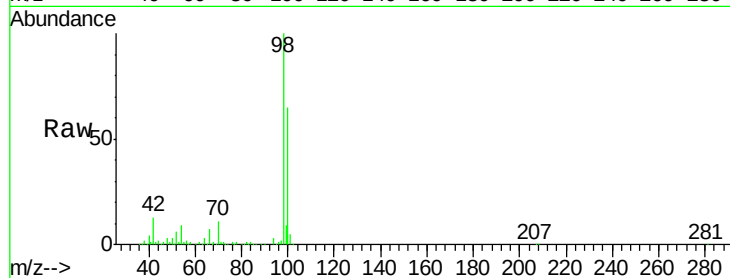
TP-2-D

Tgt Ion: 98 Resp: 388507

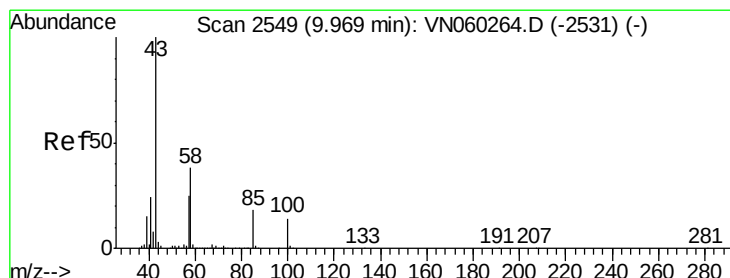
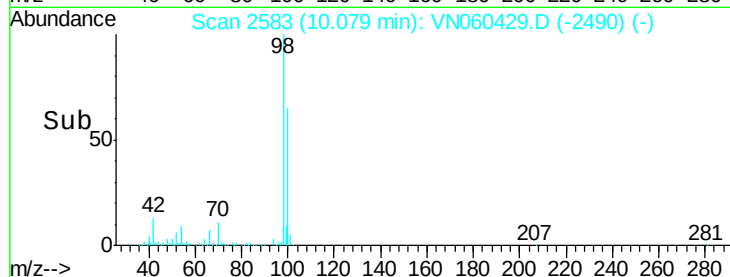
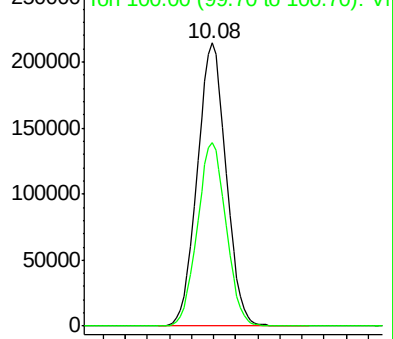
Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060264.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.067 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060429.D

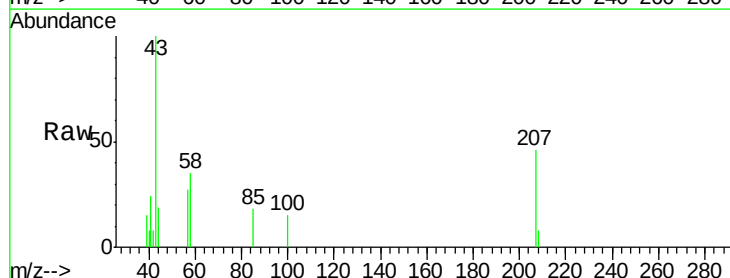
Acq: 10 Mar 2020 19:55

Tgt Ion: 43 Resp: 2987

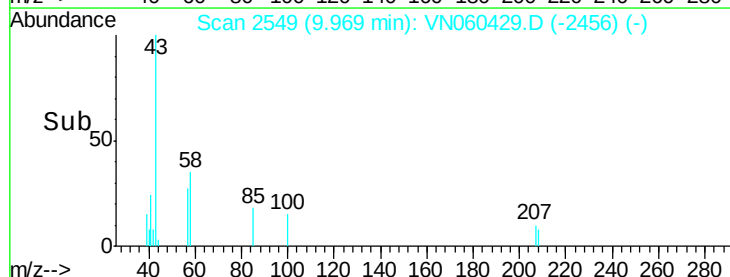
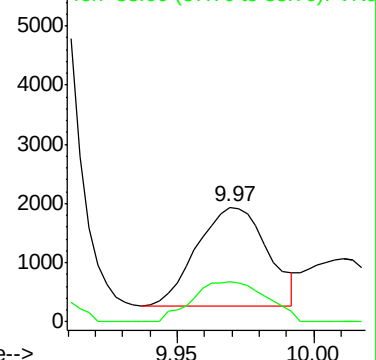
Ion Ratio Lower Upper

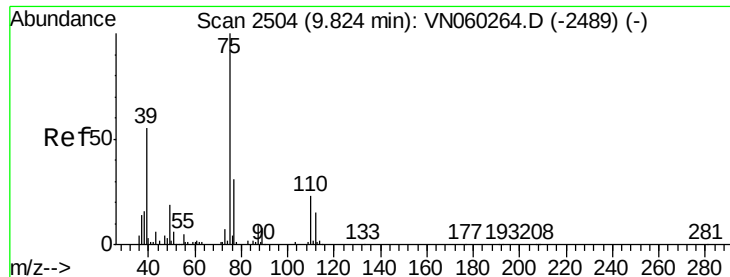
43 100

58 43.3 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)





#54

cis-1,3-Dichloropropene

Concen: 5.153 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

TP-2-D

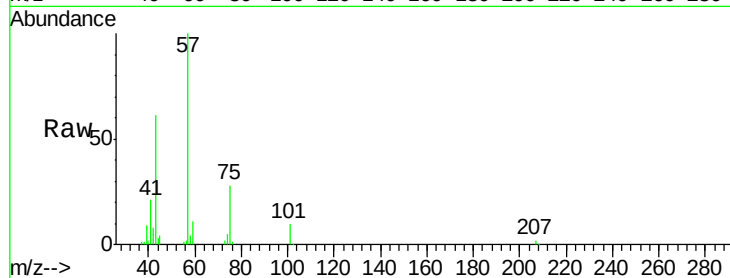
Tgt Ion: 75 Resp: 19569

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

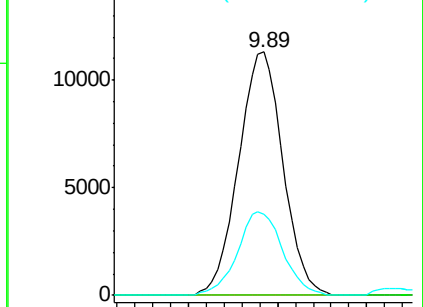
39 33.3 43.8 65.8#



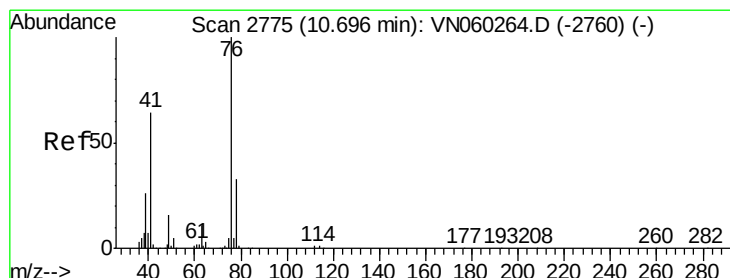
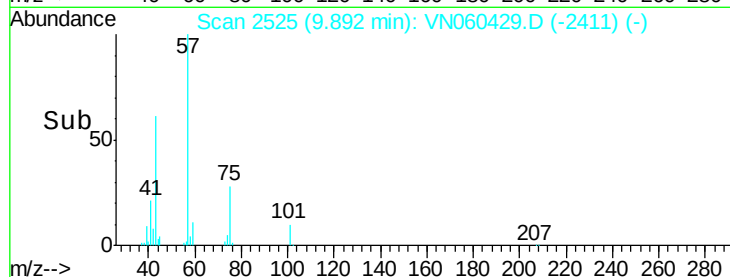
Abundance Ion 74.90 (74.60 to 75.60): VN060429.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060429.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060429.D (-2411) (-)



Time-->



#57

1,3-Dichloropropane

Concen: 0.789 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060429.D

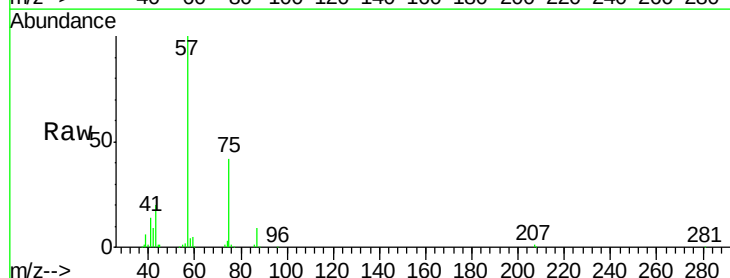
Acq: 10 Mar 2020 19:55

Tgt Ion: 76 Resp: 2818

Ion Ratio Lower Upper

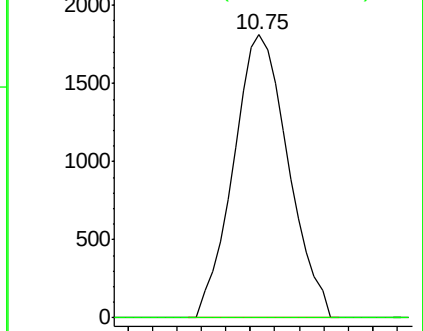
76 100

78 0.0 26.2 39.2#

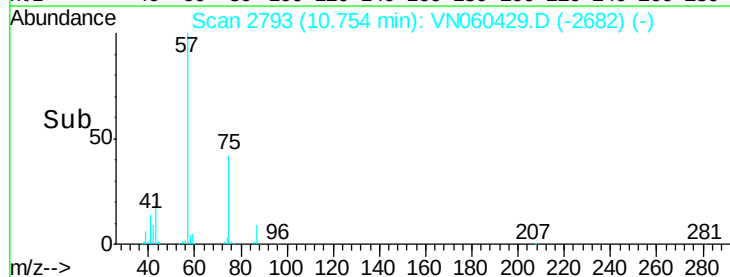


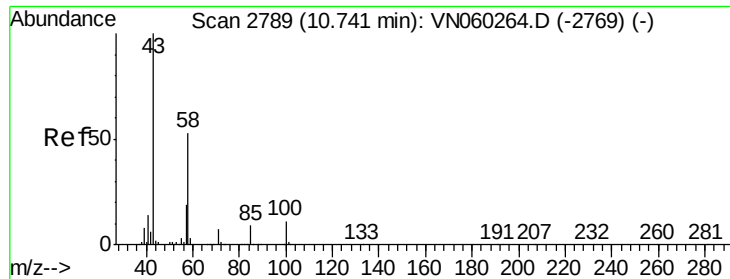
Abundance Ion 75.90 (75.60 to 76.60): VN060429.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060429.D (-2682) (-)



Time-->

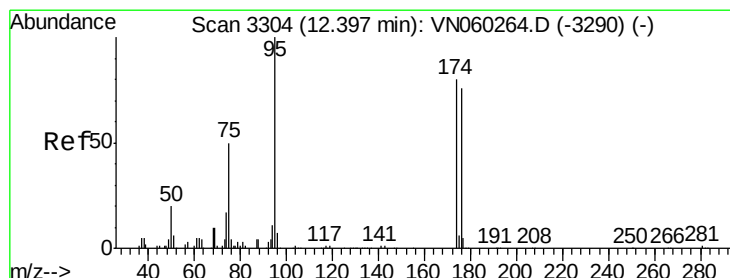
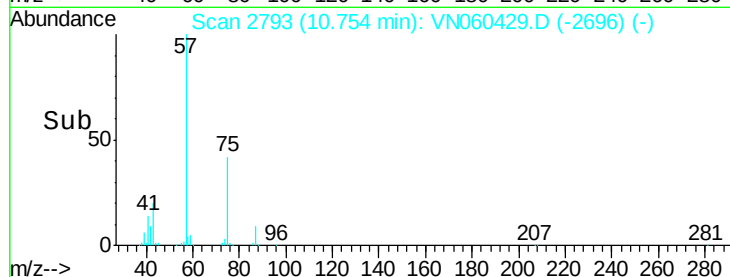
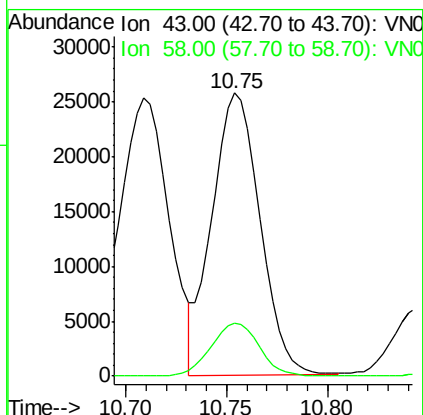
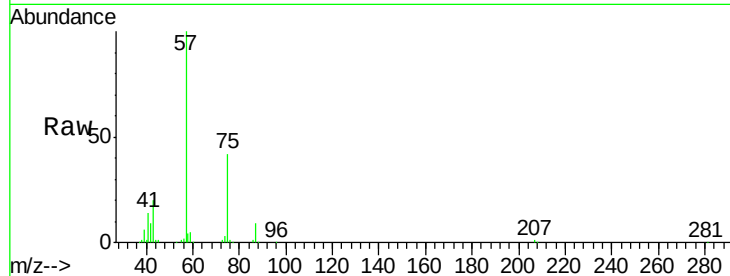




#59
2-Hexanone
Concen: 20.806 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060429.D
Acq: 10 Mar 2020 19:55

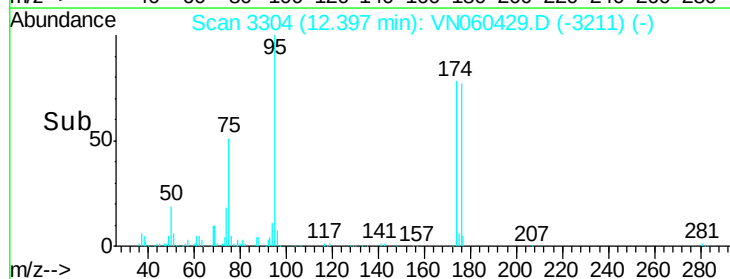
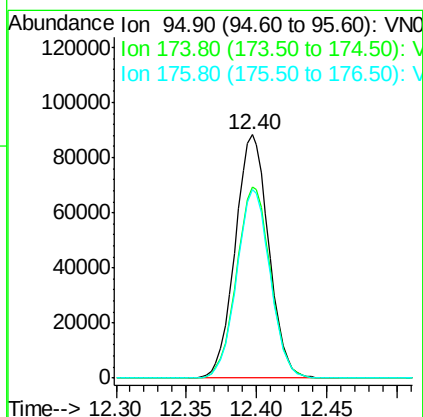
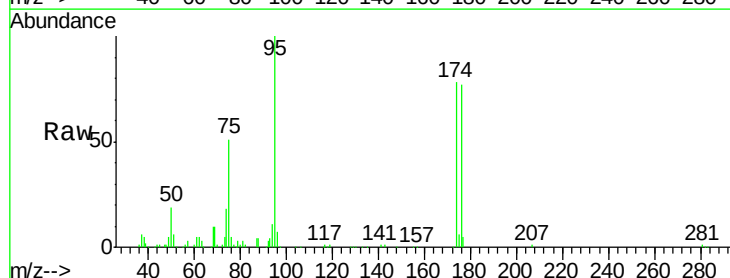
Instrument :
MSVOA_N
ClientSampleId :
TP-2-D

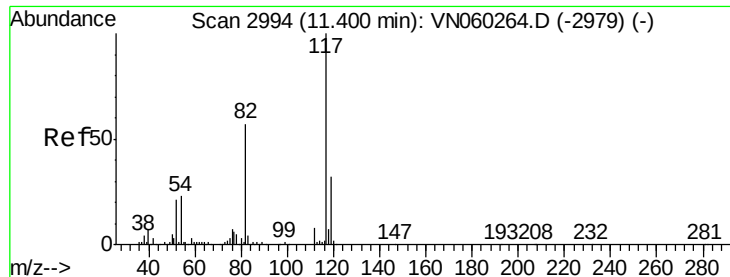
Tgt Ion: 43 Resp: 42763
Ion Ratio Lower Upper
43 100
58 18.8 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 52.956 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060429.D
Acq: 10 Mar 2020 19:55

Tgt Ion: 95 Resp: 147381
Ion Ratio Lower Upper
95 100
174 79.3 0.0 159.2
176 76.9 0.0 153.8

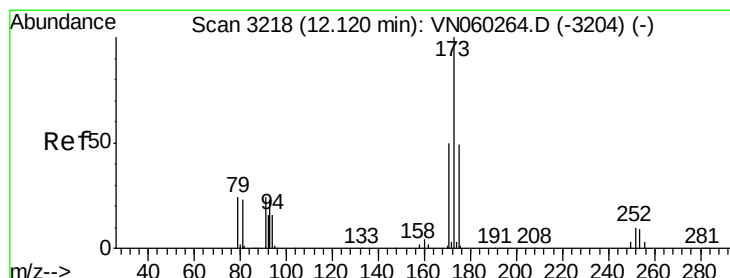
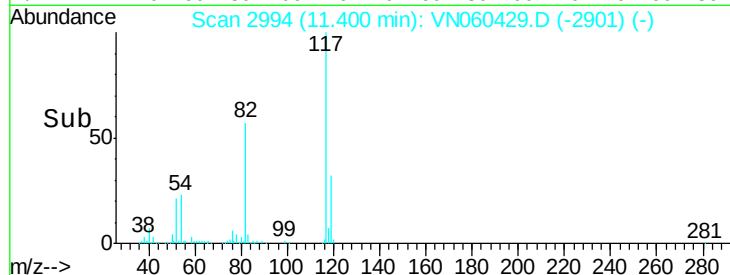
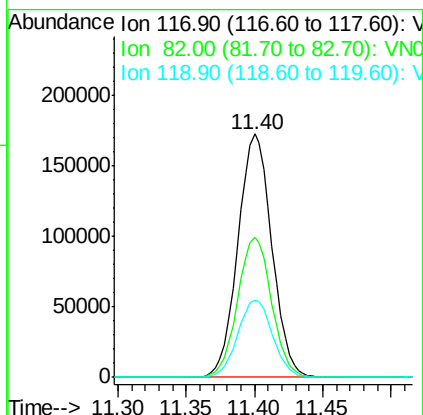
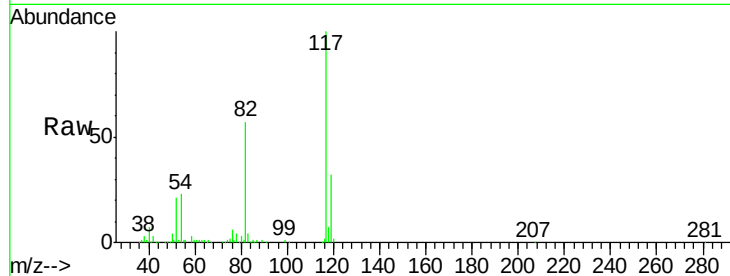




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060429.D
Acq: 10 Mar 2020 19:55

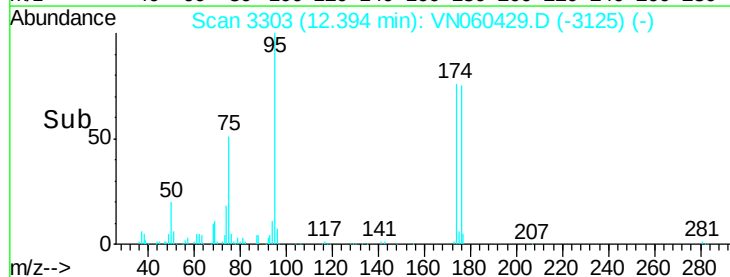
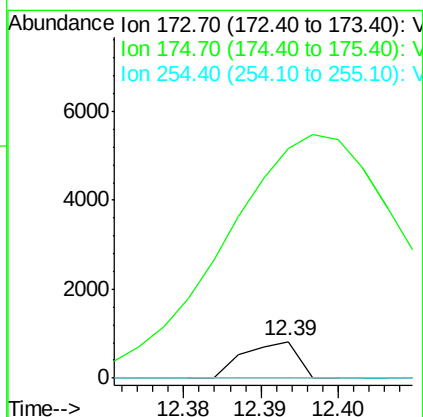
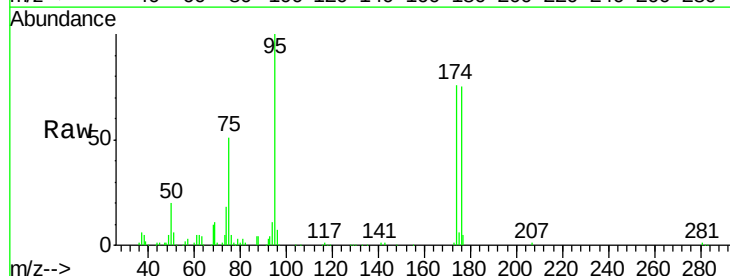
Instrument :
MSVOA_N
ClientSampled :
TP-2-D

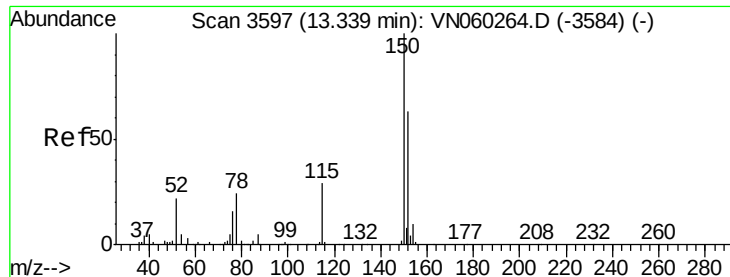
Tgt Ion:117 Resp: 298064
Ion Ratio Lower Upper
117 100
82 57.3 45.8 68.6
119 31.9 25.8 38.8



#71
Bromoform
Concen: 0.245 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060429.D
Acq: 10 Mar 2020 19:55

Tgt Ion:173 Resp: 393
Ion Ratio Lower Upper
173 100
175 1941.2 24.1 72.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

TP-2-D

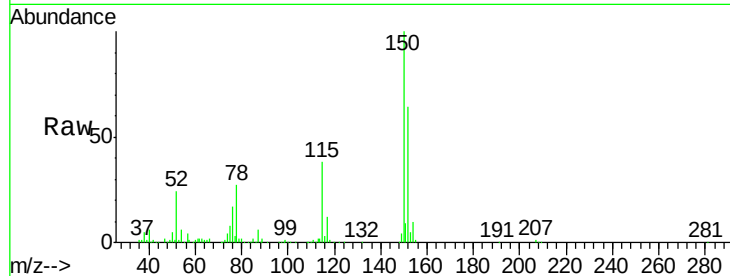
Tgt Ion:152 Resp: 141454

Ion Ratio Lower Upper

152 100

115 59.0 30.0 90.0

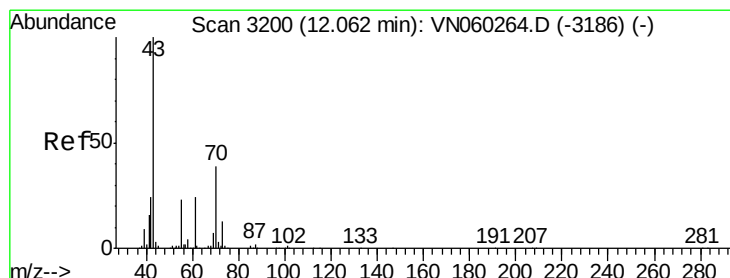
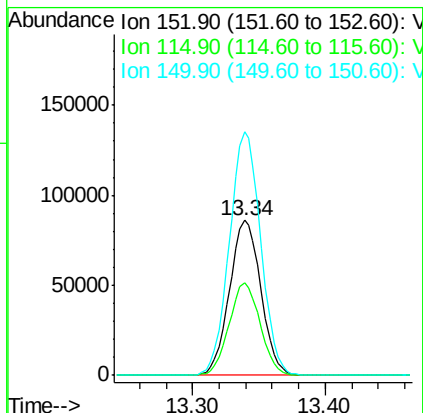
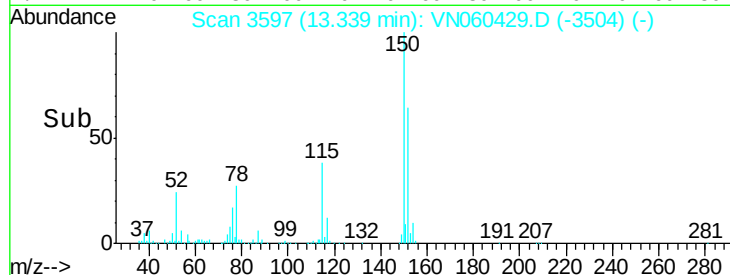
150 156.5 0.0 349.6



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: 0.468 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

Tgt Ion: 43 Resp: 2143

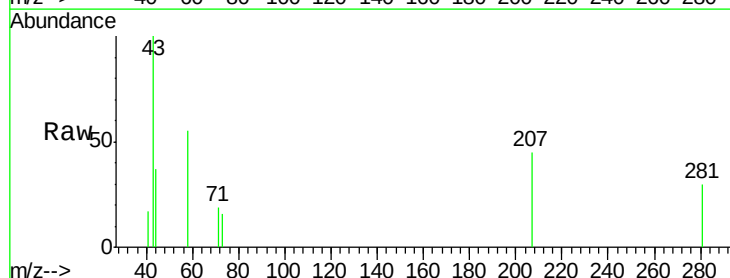
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

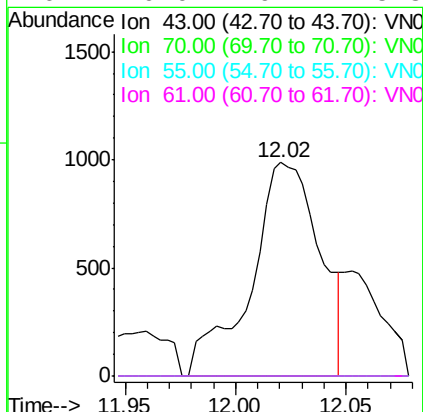
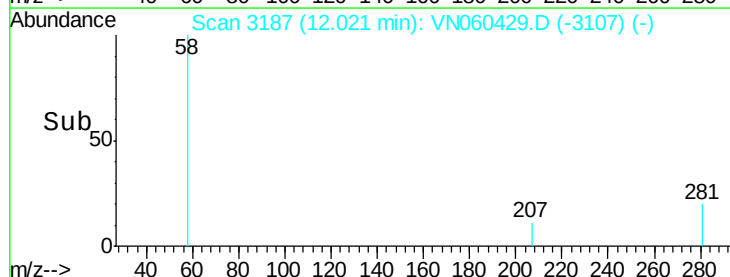


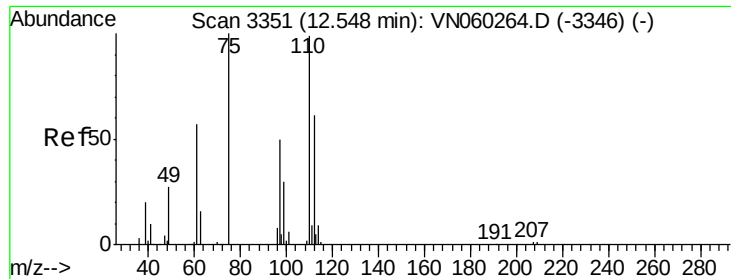
Abundance Ion 43.00 (42.70 to 43.70): V

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: 24.229 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

Instrument :

MSVOA_N

ClientSampled :

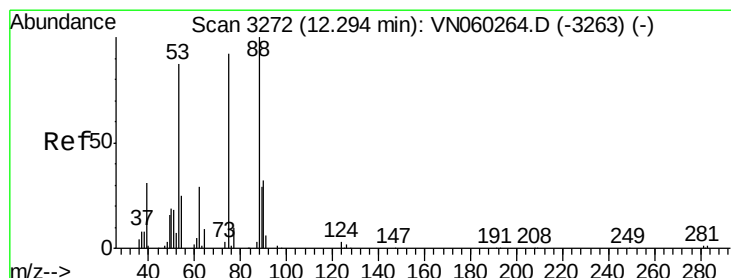
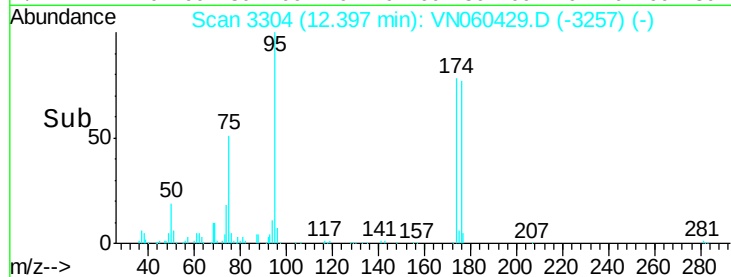
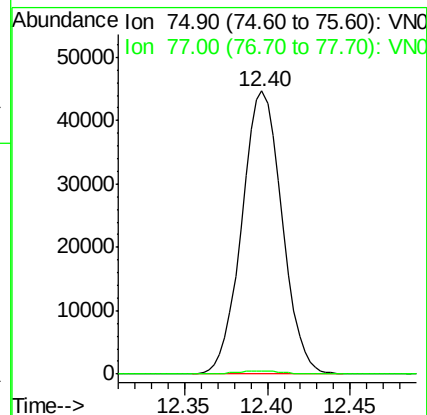
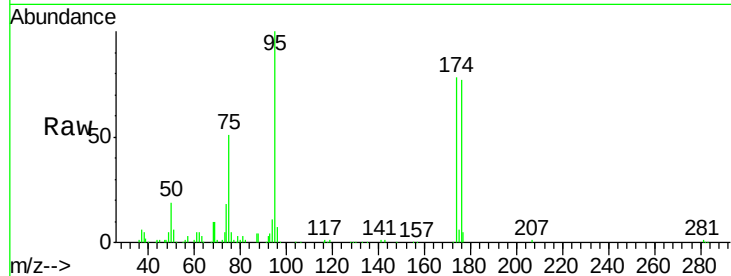
TP-2-D

Tgt Ion: 75 Resp: 75195

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.883 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

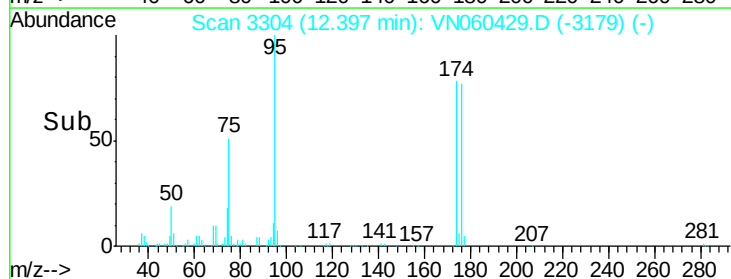
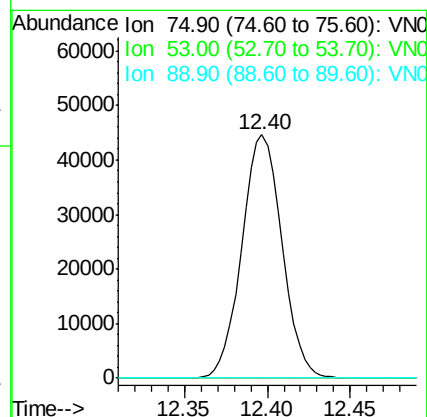
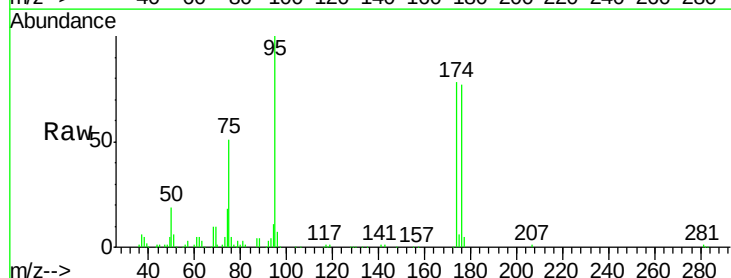
Tgt Ion: 75 Resp: 75195

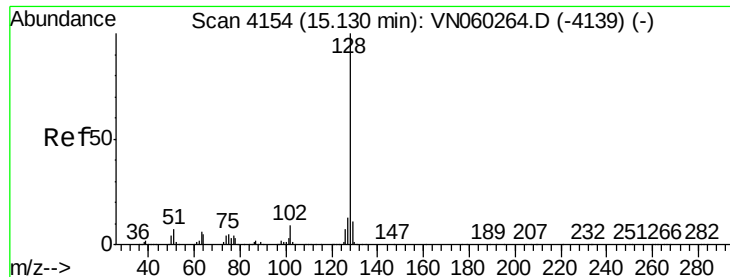
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060429.D

Acq: 10 Mar 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

TP-2-D

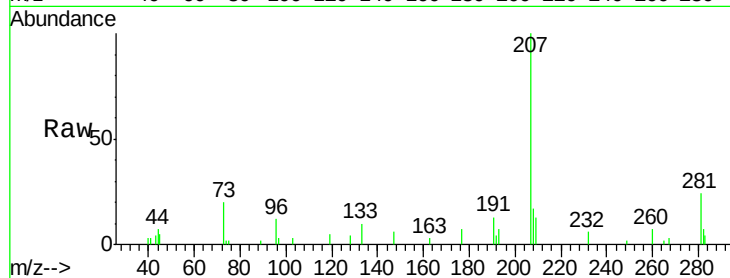
Tgt Ion:128 Resp: 367

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

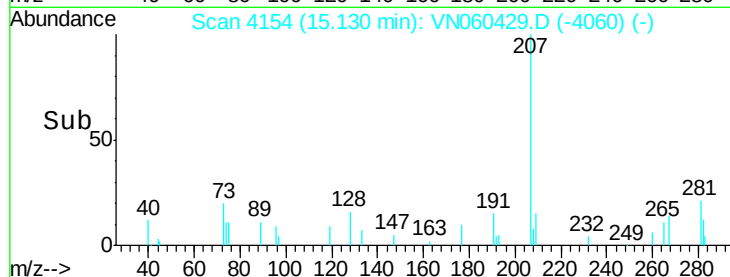
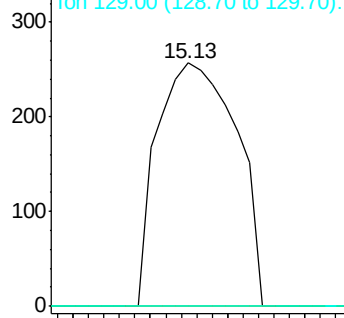
129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->