

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040220\
 Data File : VN060828.D
 Acq On : 2 Apr 2020 17:49
 Operator : JC/MD
 Sample : L2097-23
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 07:44:12 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	191705	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	321916	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	304980	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	140215	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	124513	47.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.62%	
35) Dibromofluoromethane	7.56	113	96344	49.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.00%	
50) Toluene-d8	10.08	98	396597	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	
62) 4-Bromofluorobenzene	12.40	95	152279	52.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.52%	

Target Compounds

					Qvalue	
16) Acetone	3.78	43	6584	7.063	ug/l	92
18) Methyl Acetate	4.30	43	1720	0.656	ug/l #	54
20) Methylene Chloride	4.52	84	3283	1.432	ug/l	90
25) 2-Butanone	6.80	43	1209	0.801	ug/l #	50
31) Cyclohexane	7.64	56	3924	0.926	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14669	4.706	ug/l #	49
37) Ethyl Acetate	6.80	43	1209	0.359	ug/l #	70
38) Carbon Tetrachloride	7.64	117	18209	6.518	ug/l #	16
43) Isopropyl Acetate	8.13	43	54820	9.869	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	931	0.375	ug/l #	43
48) Methyl methacrylate	9.16	41	2811	1.137	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4554	1.441	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	22709	5.777	ug/l #	62
57) 1,3-Dichloropropane	10.75	76	3456	0.911	ug/l #	42
59) 2-Hexanone	10.75	43	53406	23.455	ug/l #	53
71) Bromoform	12.40	173	285	1.832	ug/l #	1
74) N-amyl acetate	12.02	43	3776	0.777	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	76210	25.189	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	76210	64.692	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.01 min

Lab File: VN060828.D

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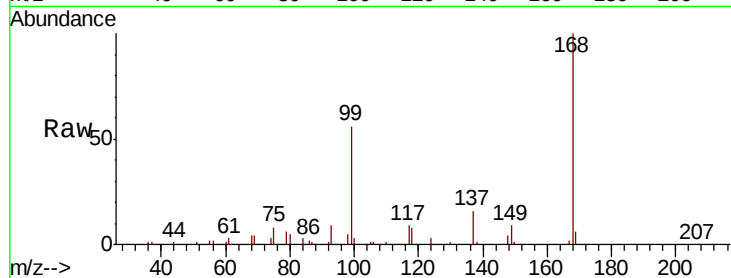
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 191705

Ion Ratio Lower Upper

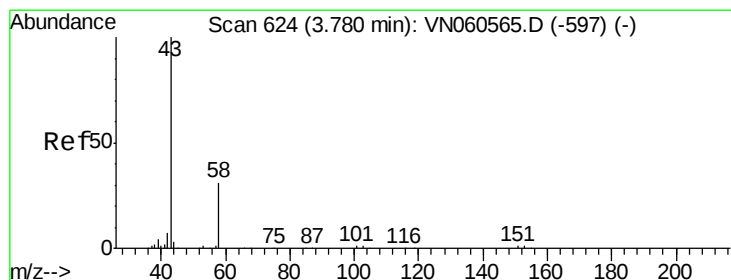
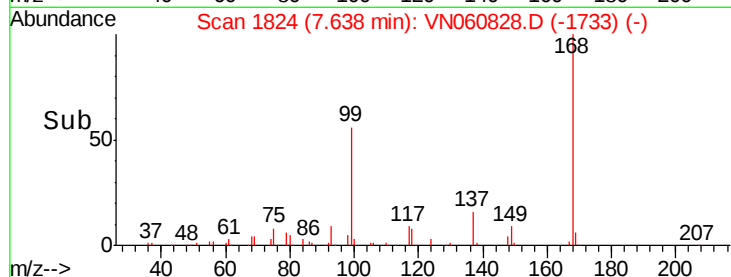
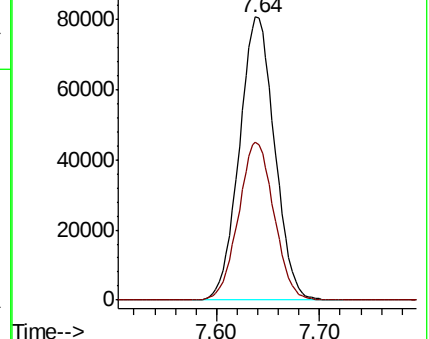
168 100

99 56.0 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 7.063 ug/l

RT: 3.78 min Scan# 623

Delta R.T. -0.00 min

Lab File: VN060828.D

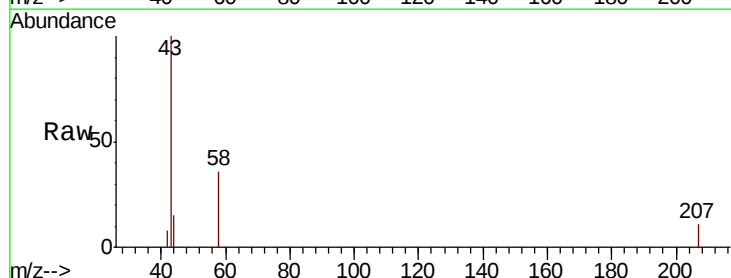
Acq: 2 Apr 2020 17:49

Tgt Ion: 43 Resp: 6584

Ion Ratio Lower Upper

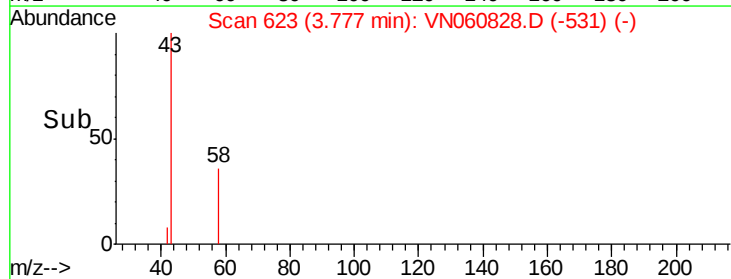
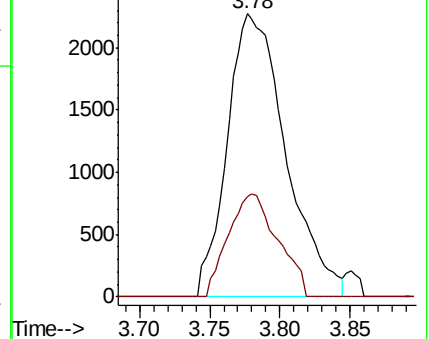
43 100

58 35.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

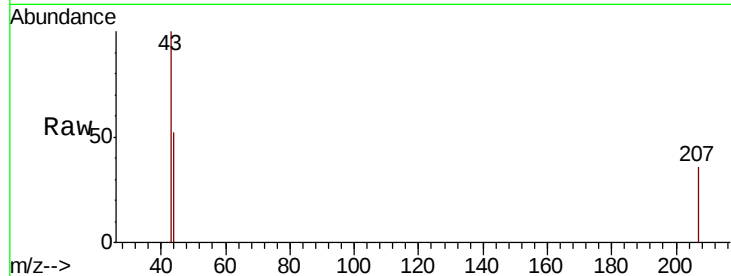




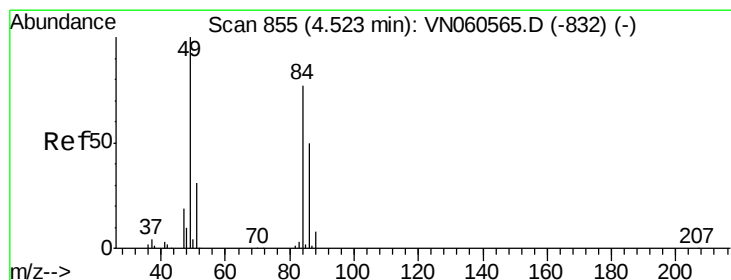
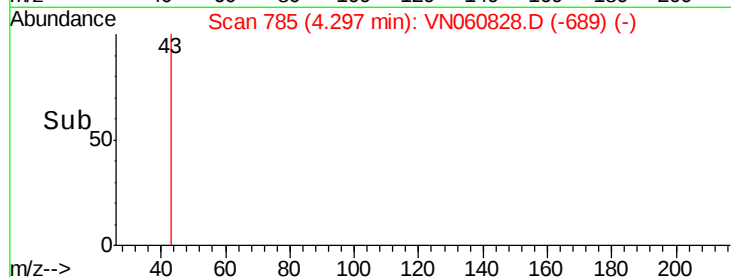
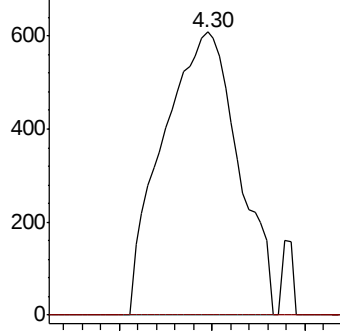
#18
Methyl Acetate
Concen: 0.656 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060828.D
Acq: 2 Apr 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1720
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#

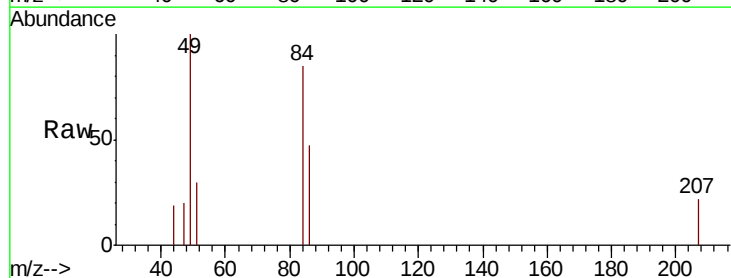


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 74.00 (73.70 to 74.70): VN0

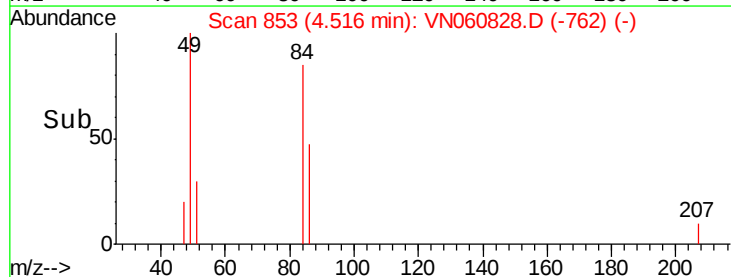
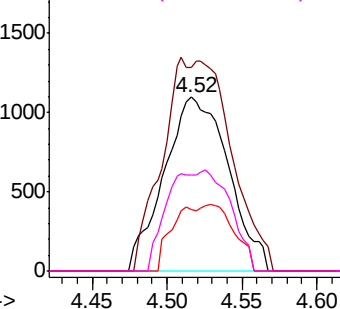


#20
Methylene Chloride
Concen: 1.432 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN060828.D
Acq: 2 Apr 2020 17:49

Tgt Ion: 84 Resp: 3283
Ion Ratio Lower Upper
84 100
49 117.2 103.3 154.9
51 35.4 31.6 47.4
86 55.2 52.0 78.0



Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

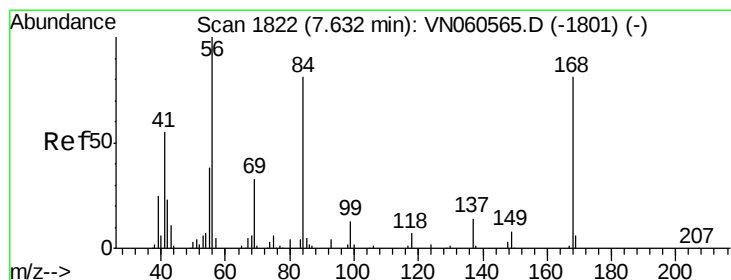
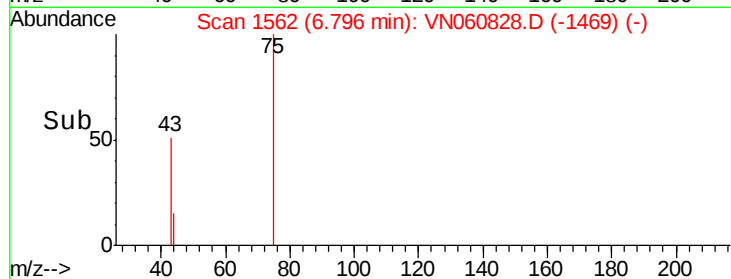
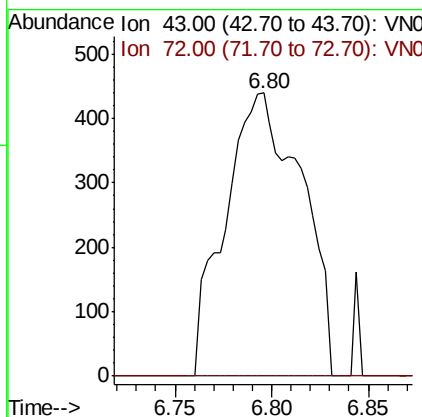
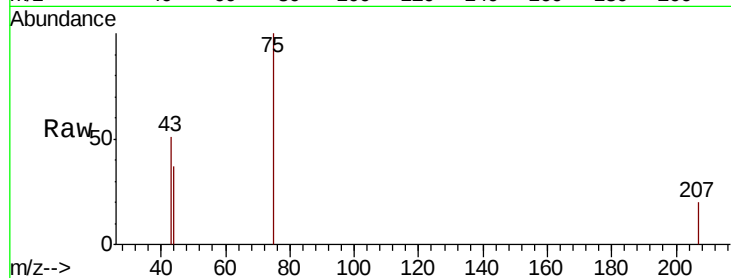




#25
2-Butanone
Concen: 0.801 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VN060828.D
Acq: 2 Apr 2020 17:49

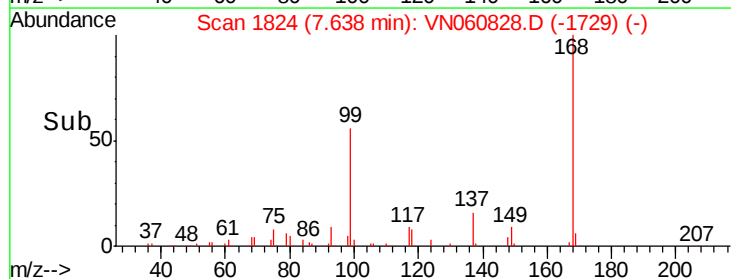
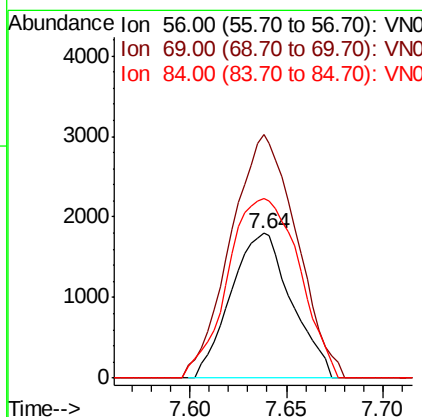
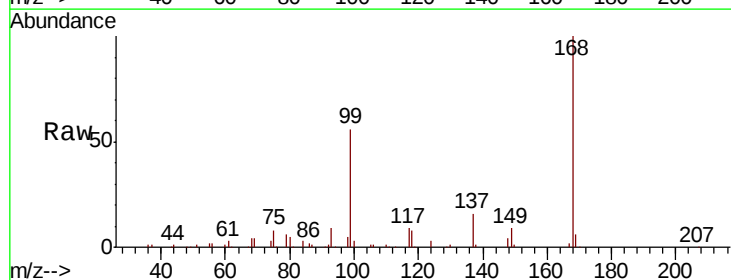
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1209
Ion Ratio Lower Upper
43 100
72 0.0 20.4 30.6#



#31
Cyclohexane
Concen: 0.926 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060828.D
Acq: 2 Apr 2020 17:49

Tgt Ion: 56 Resp: 3924
Ion Ratio Lower Upper
56 100
69 159.6 26.6 40.0#
84 123.8 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 47.313 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060828.D

Acq: 2 Apr 2020 17:49

Instrument :

MSVOA_N

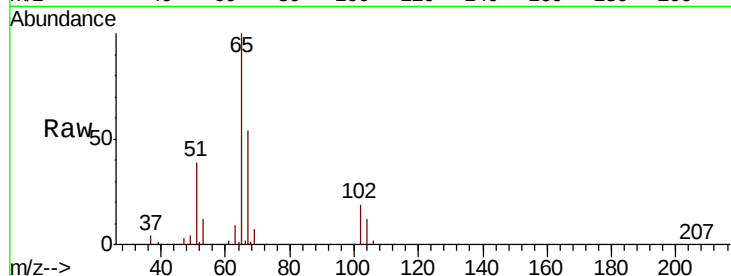
ClientSampleId :

Tot Ion: 65 Resp: 124513

Ion Ratio Lower Upper

65 100

67 53.9 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060828.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060828.D (-1920) (-)

8.00

60000

50000

40000

30000

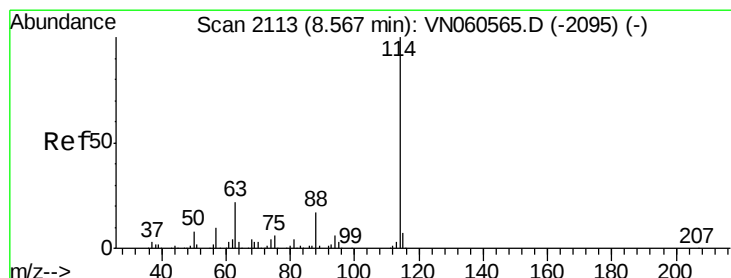
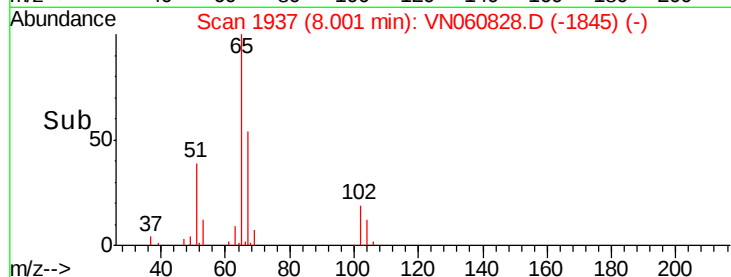
20000

10000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060828.D

Acq: 2 Apr 2020 17:49

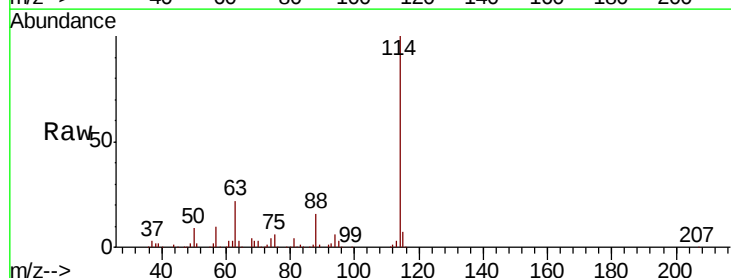
Tgt Ion: 114 Resp: 321916

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.8

88 16.3 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): VN060828.D (-2095) (-)

Ion 63.00 (62.70 to 63.70): VN060828.D (-2095) (-)

Ion 87.90 (87.60 to 88.60): VN060828.D (-2095) (-)

8.56

200000

150000

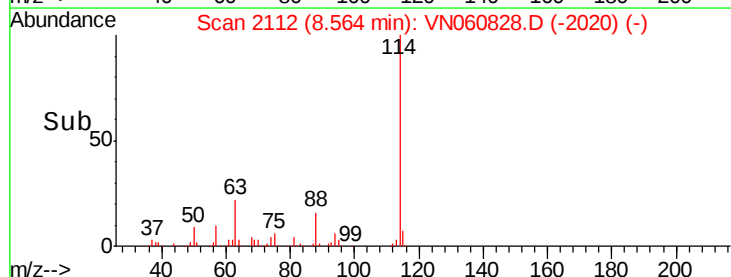
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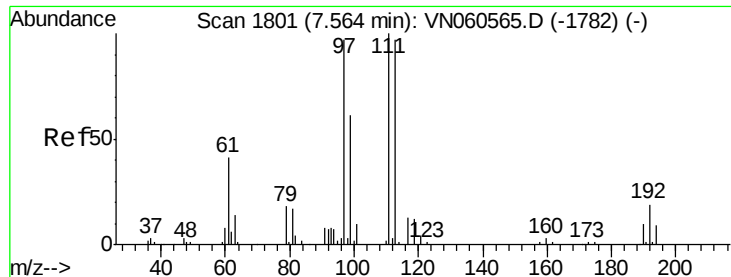
50000

0

8.50 8.60 8.70

Time-->

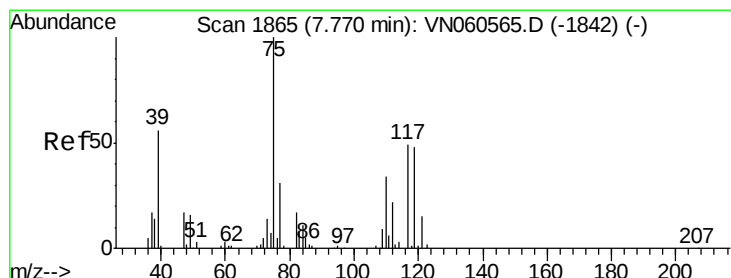
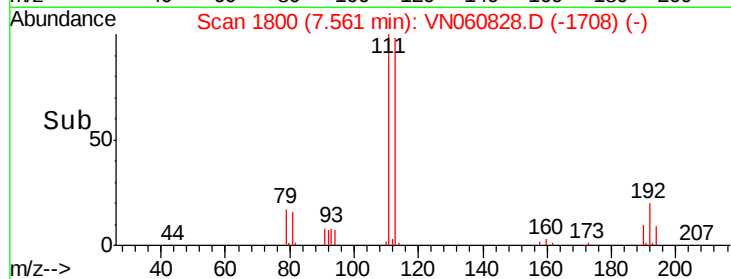
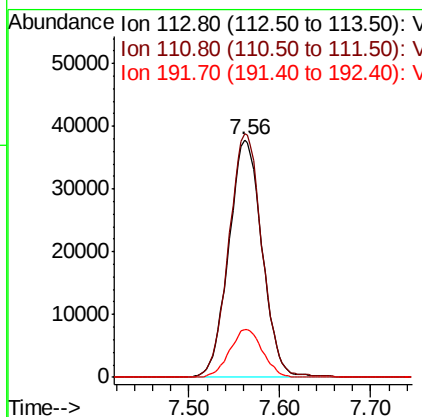
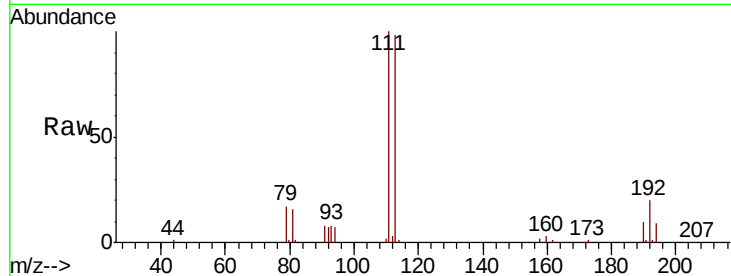




#35
 Dibromofluoromethane
 Concen: 49.495 ug/l
 RT: 7.56 min Scan# 1800
 Delta R.T. -0.00 min
 Lab File: VN060828.D
 Acq: 2 Apr 2020 17:49

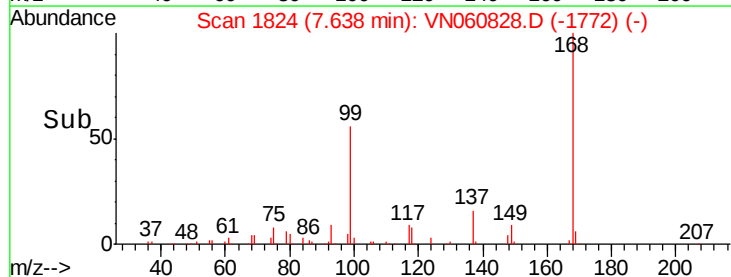
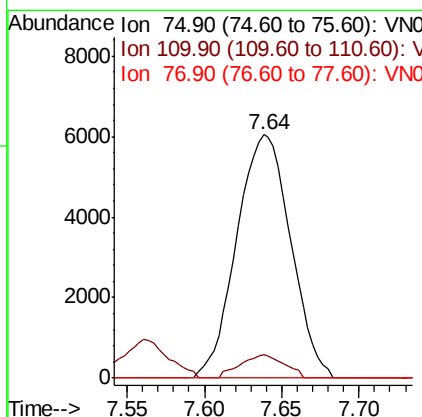
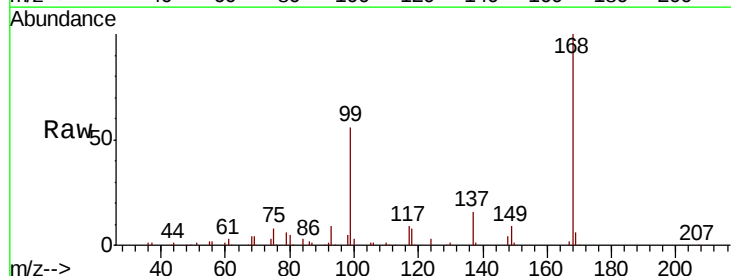
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:113 Resp: 96344
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.9 124.3
 192 19.8 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.706 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060828.D
 Acq: 2 Apr 2020 17:49

Tgt Ion: 75 Resp: 14669
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.9 50.6#
 77 0.0 24.6 36.8#

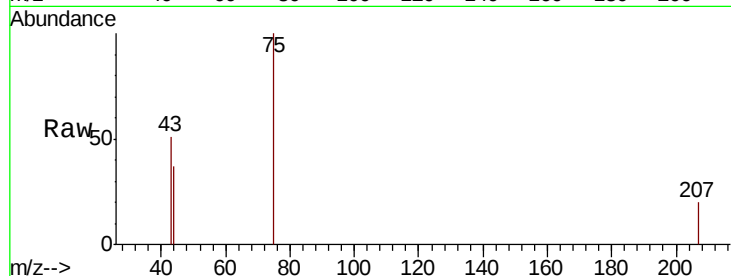




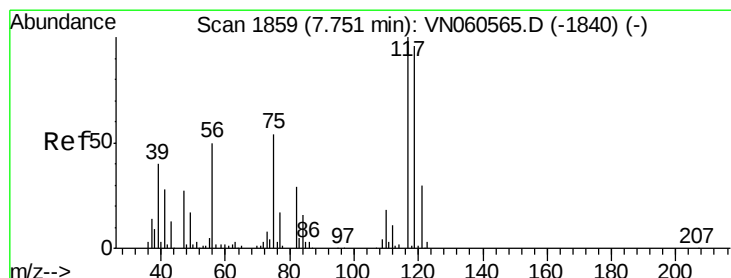
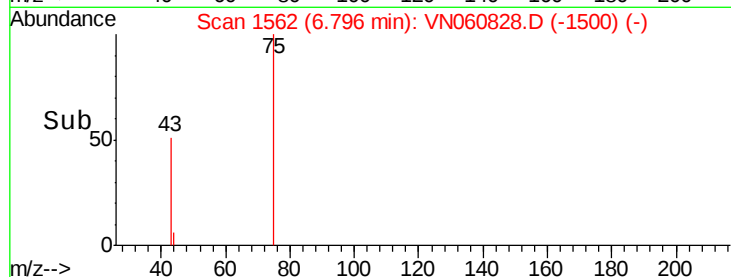
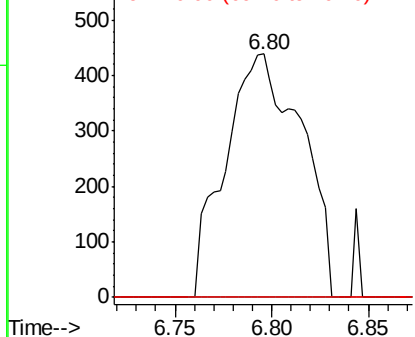
#37
Ethyl Acetate
Concen: 0.359 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.10 min
Lab File: VN060828.D
Acq: 2 Apr 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1209
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#

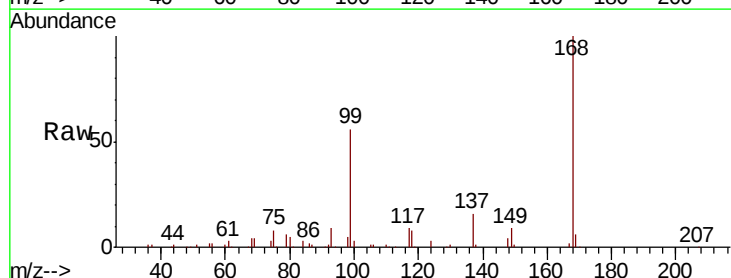


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

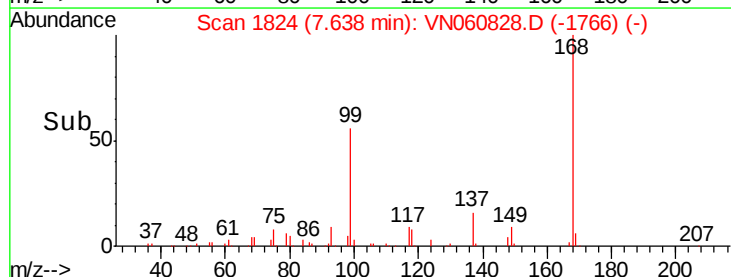
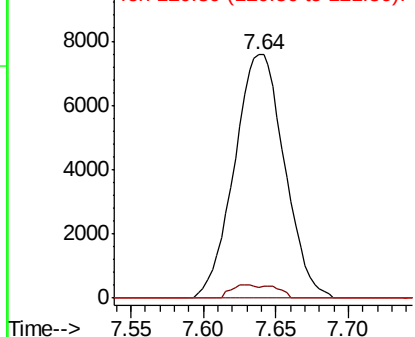


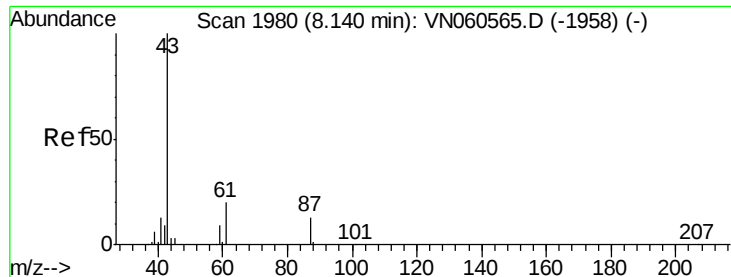
#38
Carbon Tetrachloride
Concen: 6.518 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. -0.11 min
Lab File: VN060828.D
Acq: 2 Apr 2020 17:49

Tgt Ion: 117 Resp: 18209
Ion Ratio Lower Upper
117 100
119 4.5 76.2 114.2#
121 0.0 23.7 35.5#



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: 9.869 ug/l

RT: 8.13 min Scan# 1978

Delta R.T. -0.01 min

Lab File: VN060828.D

Acq: 2 Apr 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

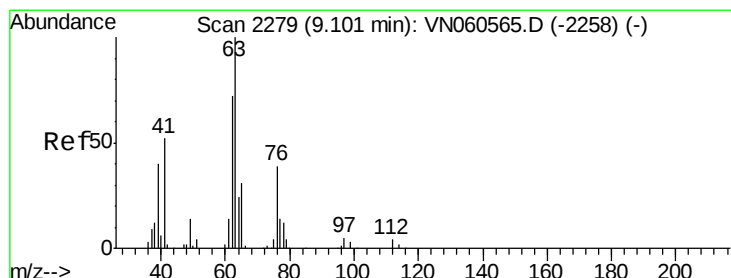
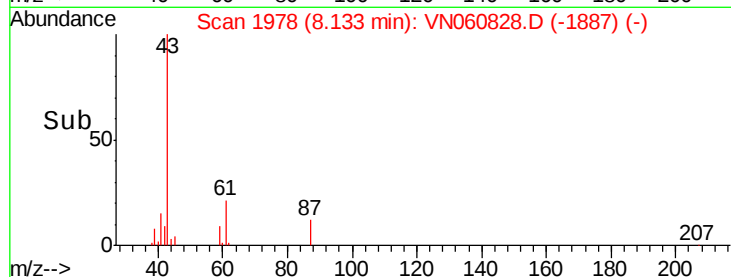
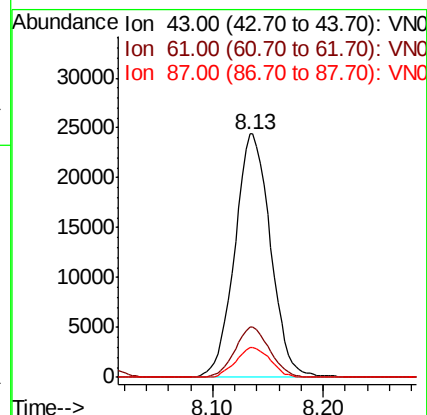
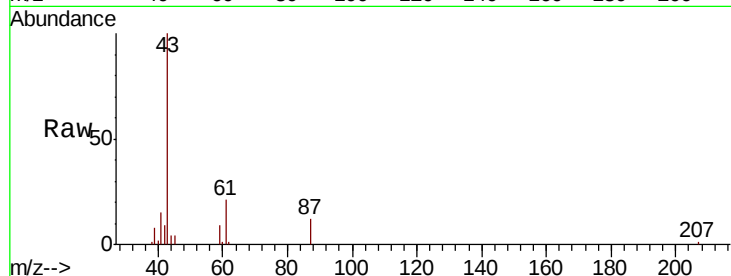
Tot Ion: 43 Resp: 54820

Ion Ratio Lower Upper

43 100

61 20.0 20.7 31.1#

87 11.7 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.375 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060828.D

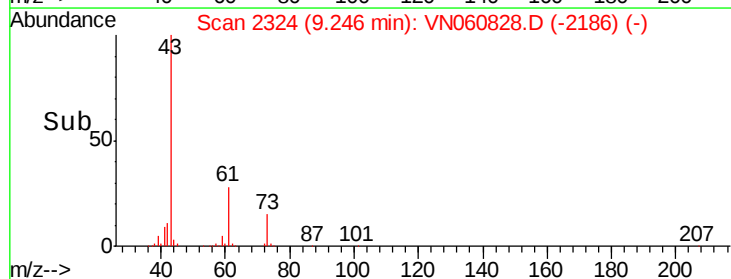
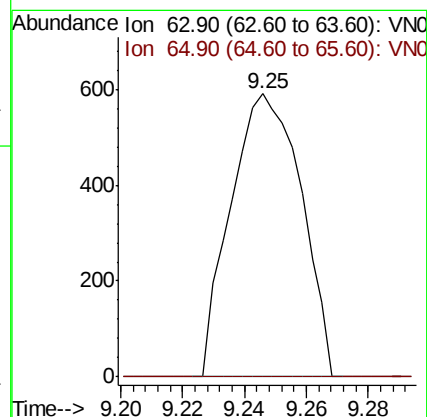
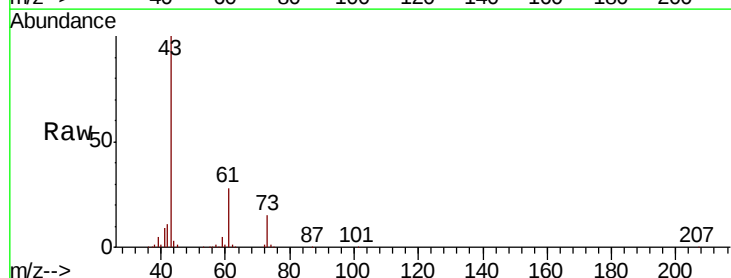
Acq: 2 Apr 2020 17:49

Tgt Ion: 63 Resp: 931

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

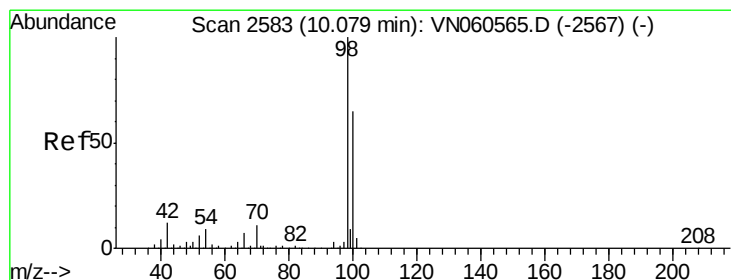
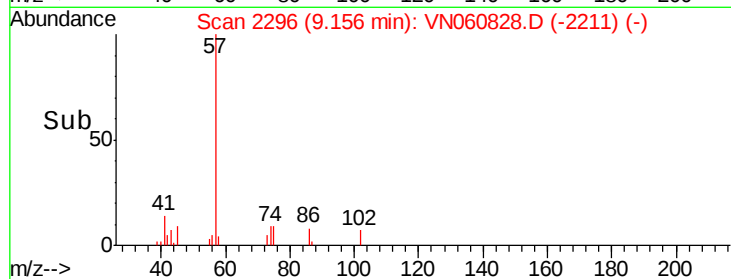
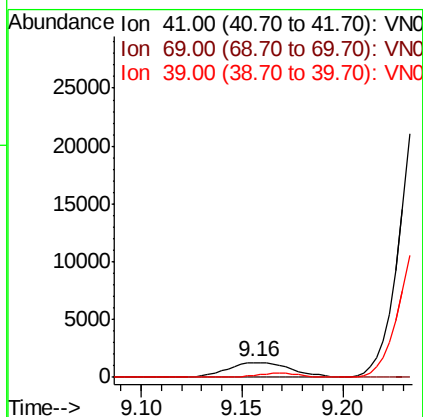
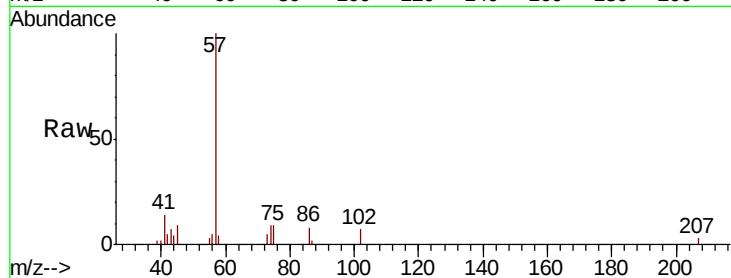




#48
Methvl methacrylate
Concen: 1.137 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.03 min
Lab File: VN060828.D
Acq: 2 Apr 2020 17:49

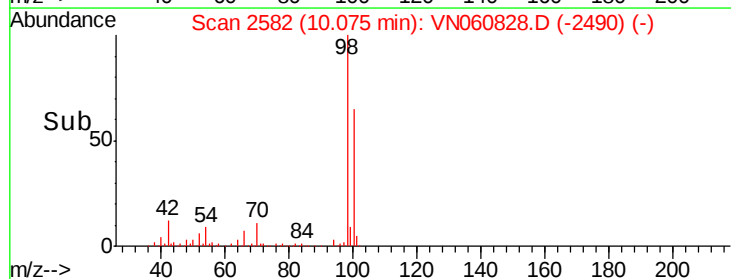
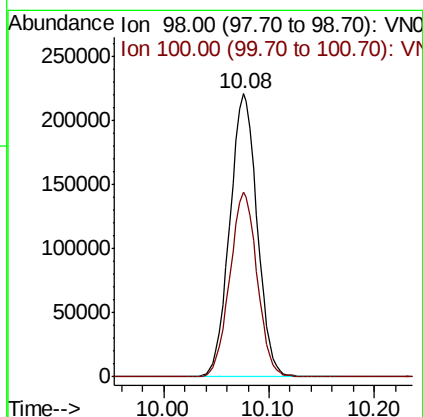
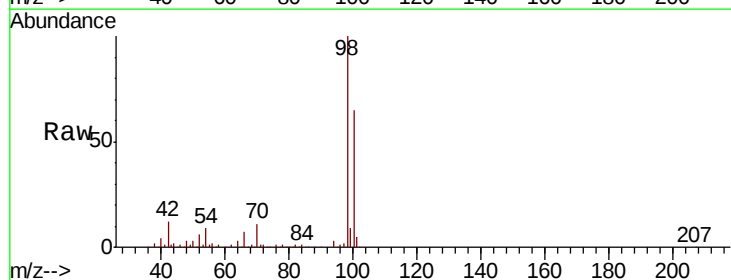
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2811
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 49.881 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060828.D
Acq: 2 Apr 2020 17:49

Tgt Ion: 98 Resp: 396597
Ion Ratio Lower Upper
98 100
100 65.2 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.441 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060828.D

Acq: 2 Apr 2020 17:49

Instrument :

MSVOA_N

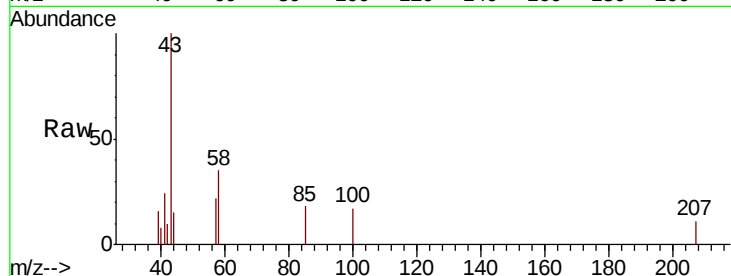
ClientSampled :

Tot Ion: 43 Resp: 4554

Ion Ratio Lower Upper

43 100

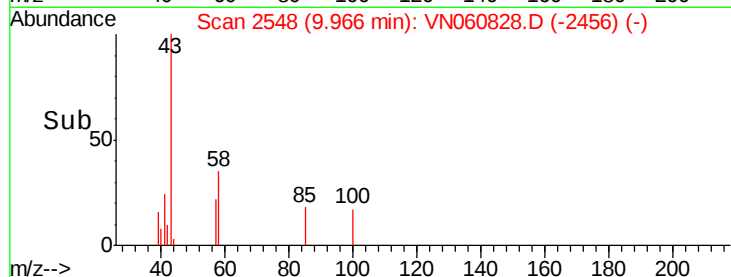
58 32.5 30.8 46.2



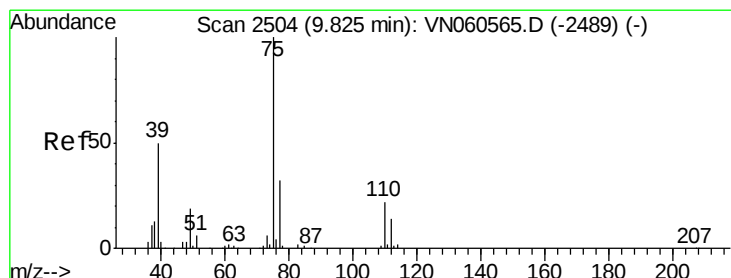
Abundance Ion 43.00 (42.70 to 43.70): VN060828.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060828.D (-2456) (-)

Time-->



Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.777 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060828.D

Acq: 2 Apr 2020 17:49

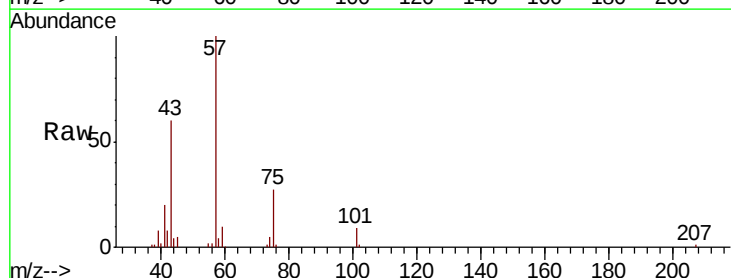
Tgt Ion: 75 Resp: 22709

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 31.9 40.2 60.4#

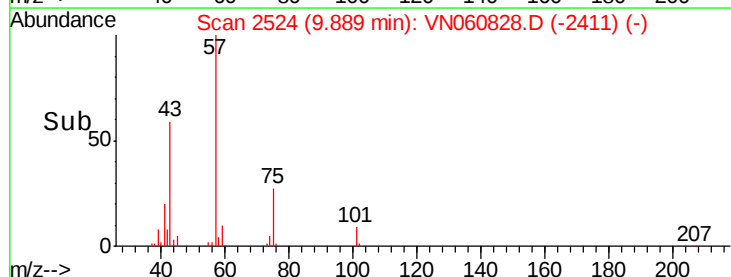


Abundance Ion 74.90 (74.60 to 75.60): VN060828.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060828.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060828.D (-2411) (-)

Time-->



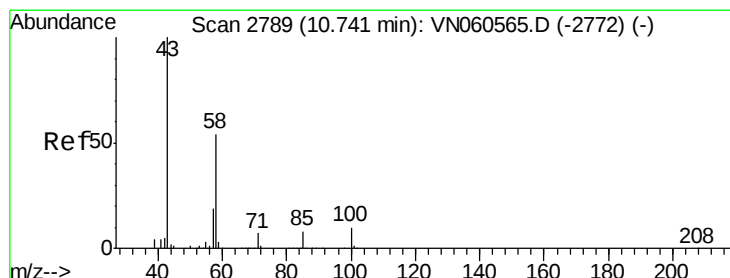
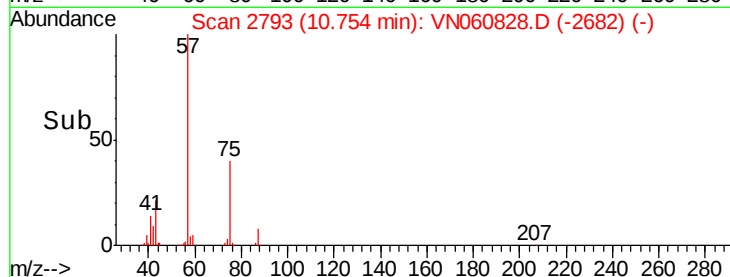
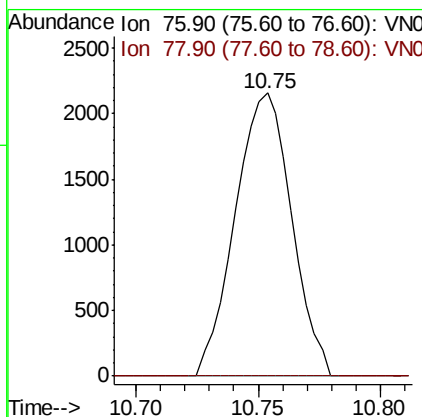
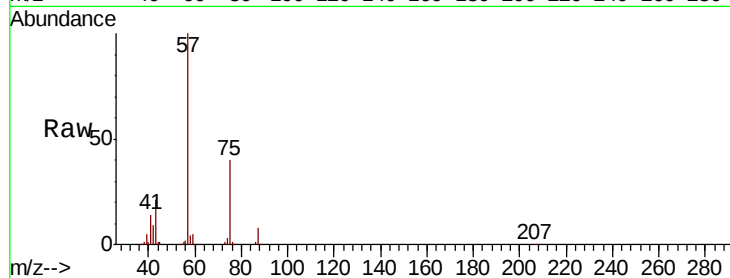
Time-->



#57
 1,3-Dichloropropane
 Concen: 0.911 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060828.D
 Acq: 2 Apr 2020 17:49

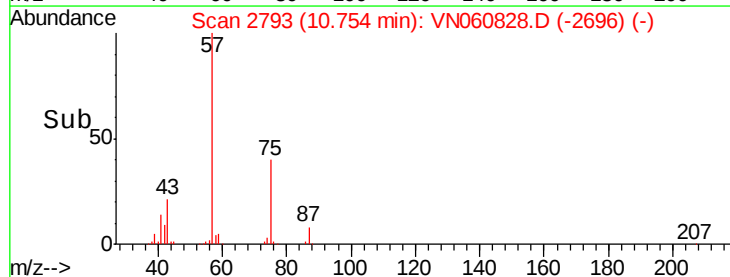
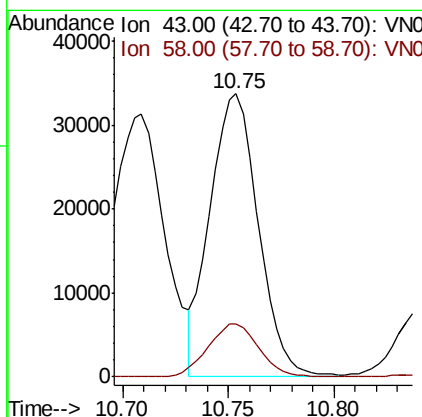
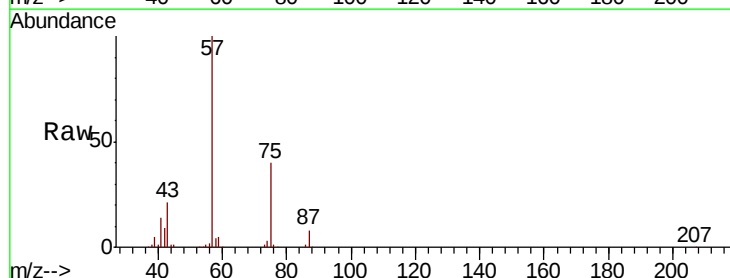
Instrument :
 MSVOA_N
 ClientSampleId :

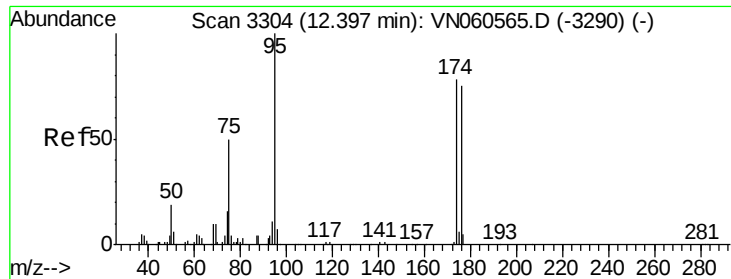
Tot Ion: 76 Resp: 3456
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 23.455 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060828.D
 Acq: 2 Apr 2020 17:49

Tgt Ion: 43 Resp: 53406
 Ion Ratio Lower Upper
 43 100
 58 19.7 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 52.260 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060828.D

Acq: 2 Apr 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

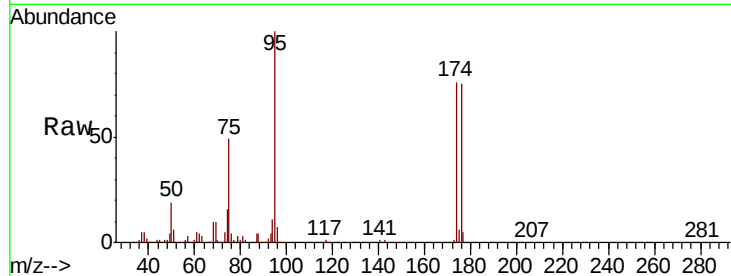
Tot Ion: 95 Resp: 152279

Ion Ratio Lower Upper

95 100

174 77.3 0.0 157.6

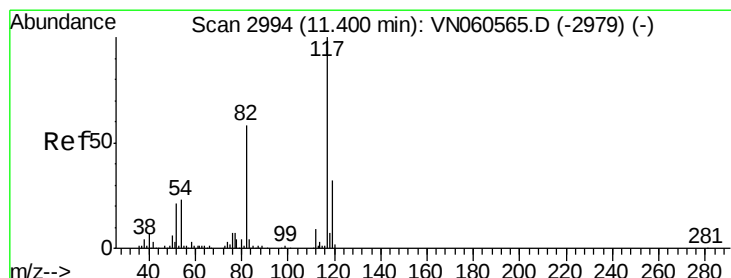
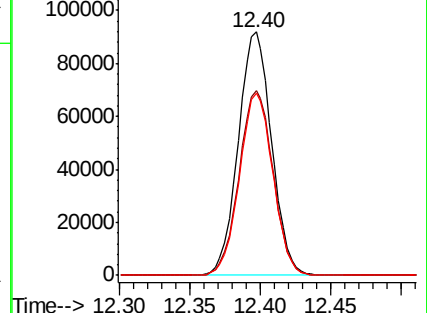
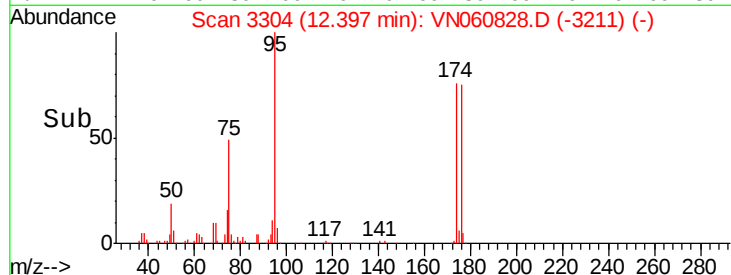
176 75.1 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060828.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060828.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060828.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060828.D

Acq: 2 Apr 2020 17:49

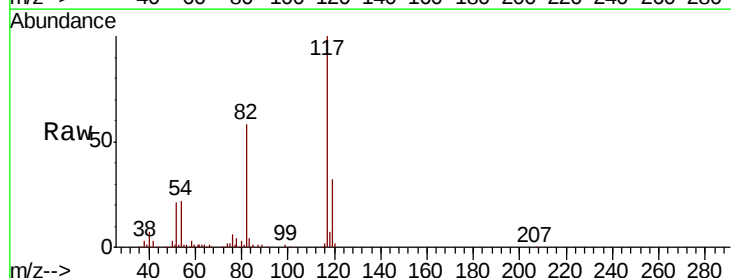
Tgt Ion: 117 Resp: 304980

Ion Ratio Lower Upper

117 100

82 57.8 46.7 70.1

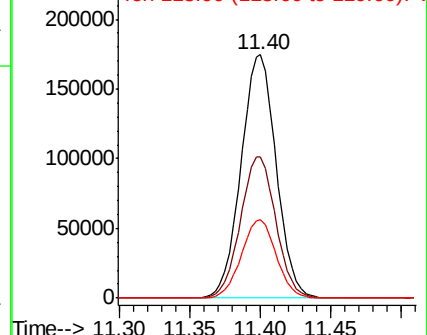
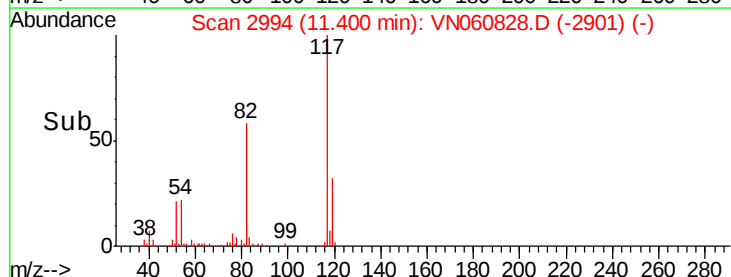
119 32.2 25.5 38.3

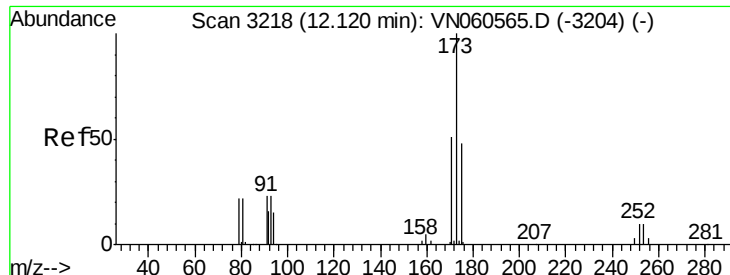


Abundance Ion 116.90 (116.60 to 117.60): VN060828.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060828.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060828.D (-2901) (-)





#71

Bromoform

Concen: 1.832 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060828.D

Acq: 2 Apr 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

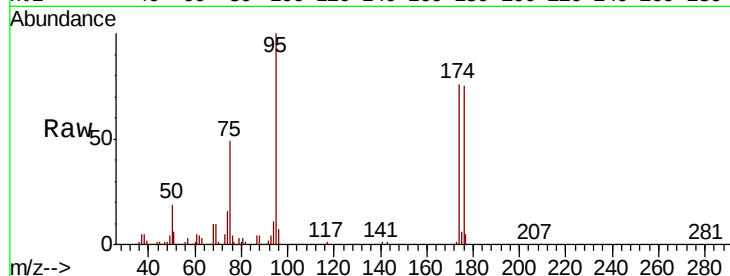
Tot Ion:173 Resp: 285

Ion Ratio Lower Upper

173 100

175 2595.8 24.1 72.4#

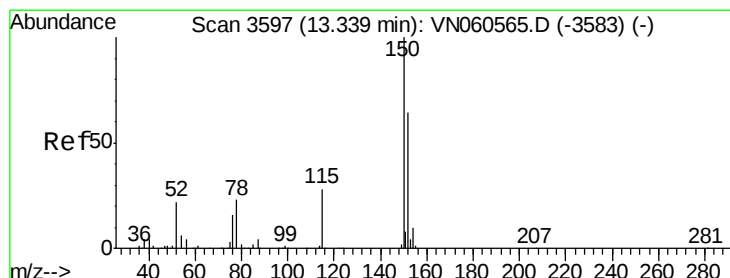
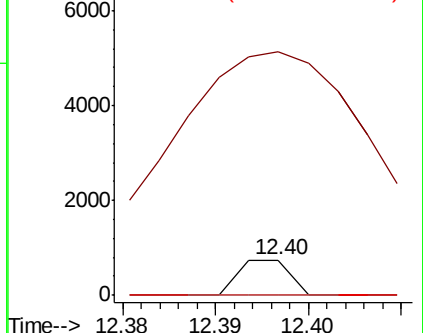
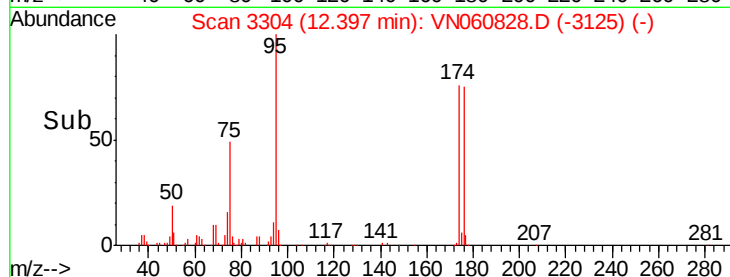
254 0.0 0.0 0.0



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: VN060828.D

Acq: 2 Apr 2020 17:49

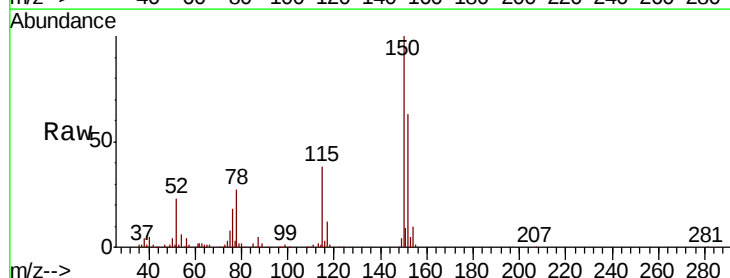
Tgt Ion:152 Resp: 140215

Ion Ratio Lower Upper

152 100

115 60.1 30.2 90.6

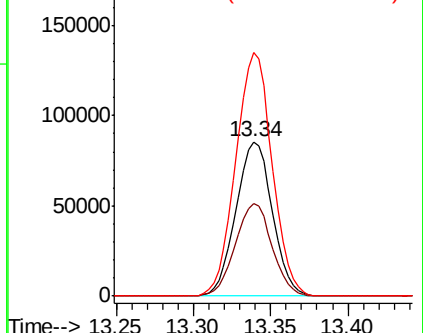
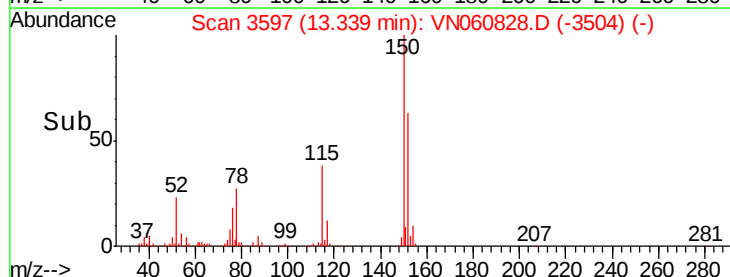
150 157.4 0.0 350.2



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-amvl acetate

Concen: 0.777 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060828.D

Acq: 2 Apr 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3776

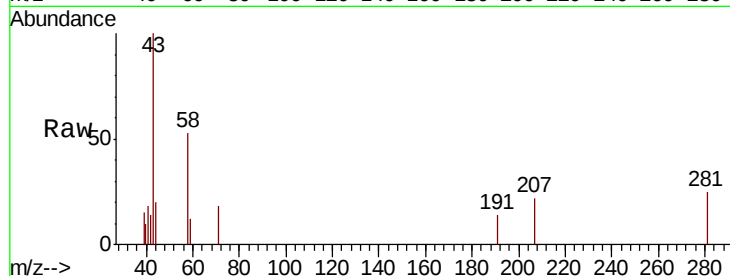
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

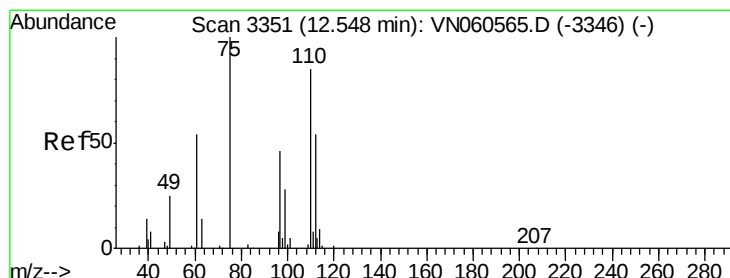
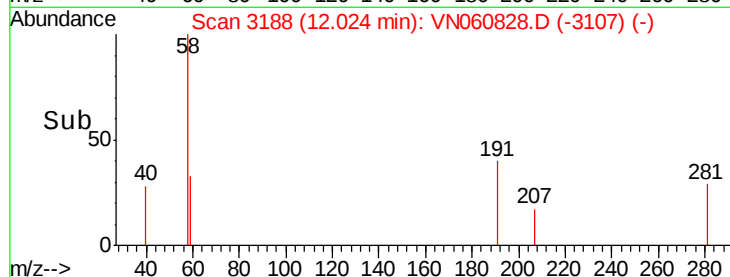
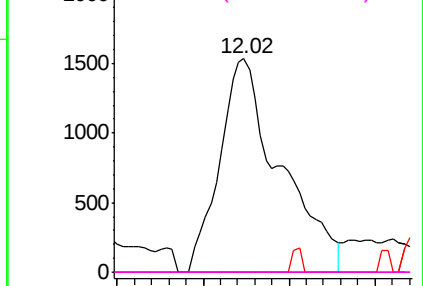


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.189 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060828.D

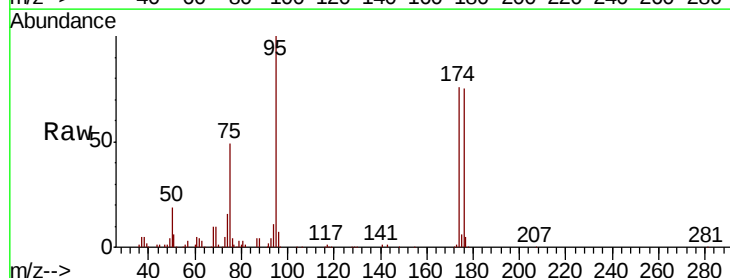
Acq: 2 Apr 2020 17:49

Tgt Ion: 75 Resp: 76210

Ion Ratio Lower Upper

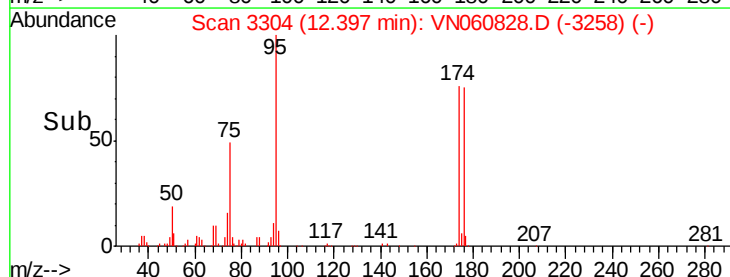
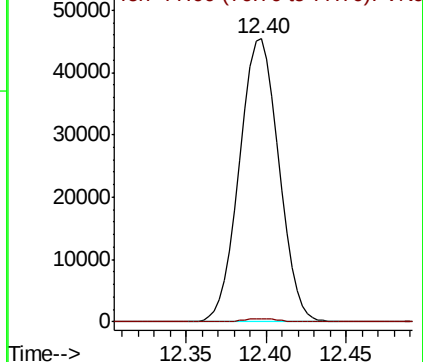
75 100

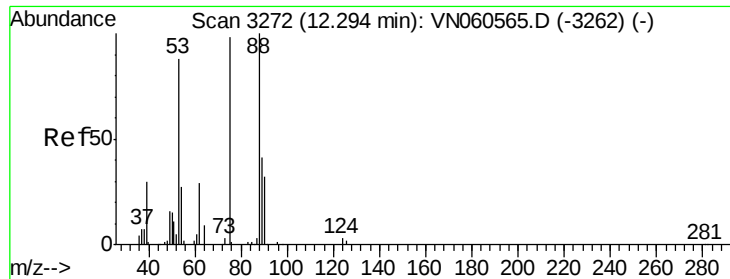
77 1.1 0.0 0.0#



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: 64.692 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060828.D

Acq: 2 Apr 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 76210

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

