

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062920\
 Data File : VN062217.D
 Acq On : 30 Jun 2020 4:11
 Operator : JC/MD
 Sample : PB129816ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129816ZHE#02

Quant Time: Jun 30 06:37:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	201900	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	392667	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	403696	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	139901	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	156334	55.18	ug/l	0.00
Spiked Amount			Recovery	=	110.36%	
35) Dibromofluoromethane	7.55	113	127520	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
50) Toluene-d8	10.06	98	527253	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
62) 4-Bromofluorobenzene	12.38	95	170310	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	

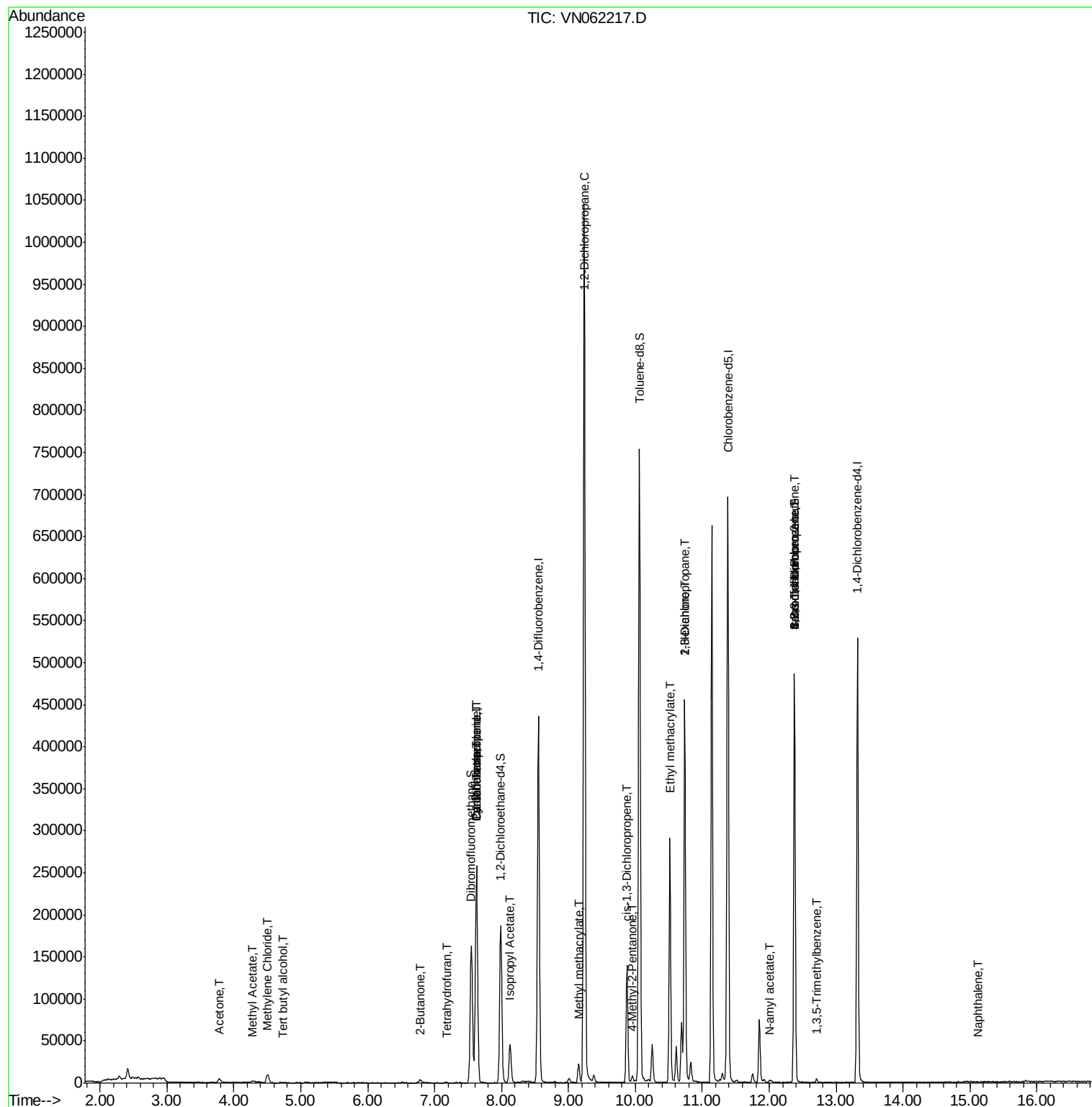
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	293	Below Cal	#	41
11) Tert butyl alcohol	4.74	59	99	0.243	ug/l #	72
16) Acetone	3.78	43	8026	5.056	ug/l	96
18) Methyl Acetate	4.28	43	1280	0.568	ug/l #	68
20) Methylene Chloride	4.50	84	7432	2.652	ug/l	95
25) 2-Butanone	6.80	43	1428	1.031	ug/l	97
29) Tetrahydrofuran	7.17	42	223	0.246	ug/l #	49
31) Cyclohexane	7.63	56	5011	1.280	ug/l #	18
36) 1,1-Dichloropropene	7.62	75	17313	4.386	ug/l #	49
38) Carbon Tetrachloride	7.63	117	20866	5.608	ug/l #	15
43) Isopropyl Acetate	8.13	43	51760	9.715	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1468	0.495	ug/l #	43
48) Methyl methacrylate	9.15	41	3017	1.263	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	4606	1.480	ug/l	100
54) cis-1,3-Dichloropropene	9.87	75	24811	5.214	ug/l #	70
56) Ethyl methacrylate	10.52	69	1457	0.378	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5153	1.038	ug/l #	42
59) 2-Hexanone	10.74	43	61495	27.359	ug/l #	50
71) Bromoform	12.38	173	1578	0.724	ug/l #	1
74) N-amyl acetate	12.01	43	1473	3.688	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	87047	26.431	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2754	0.314	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.38	75	87047	77.188	ug/l #	13
95) Naphthalene	15.11	128	33	3.999	ug/l #	69

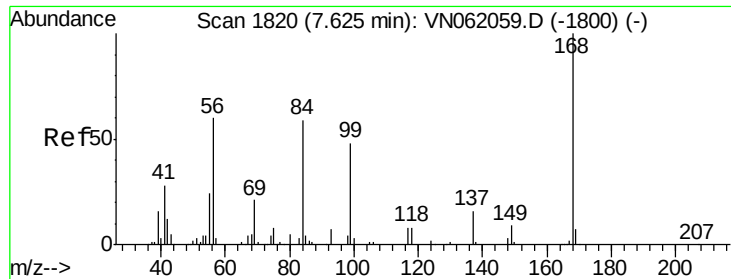
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062217.D

Acq: 30 Jun 2020 4:11

Instrument :

MSVOA_N

ClientSampleId :

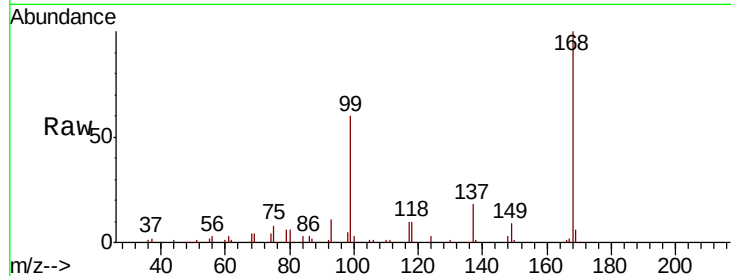
PB129816ZHE#02

Tot Ion:168 Resp: 201900

Ion Ratio Lower Upper

168 100

99 60.0 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

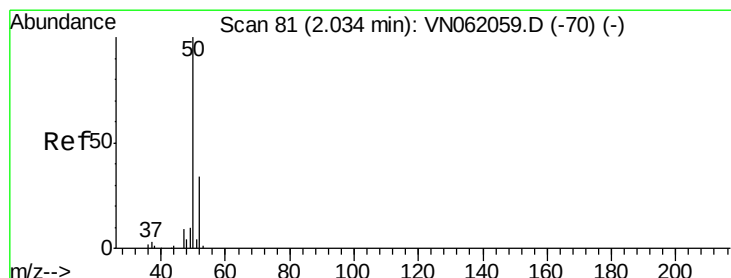
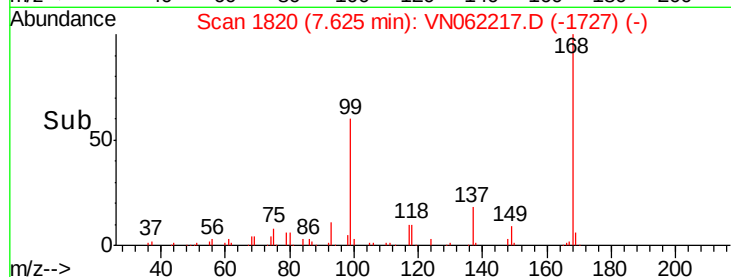
60000

40000

20000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN062217.D

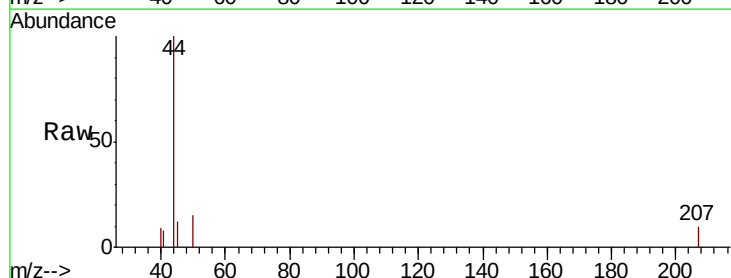
Acq: 30 Jun 2020 4:11

Tgt Ion: 50 Resp: 293

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

300

250

200

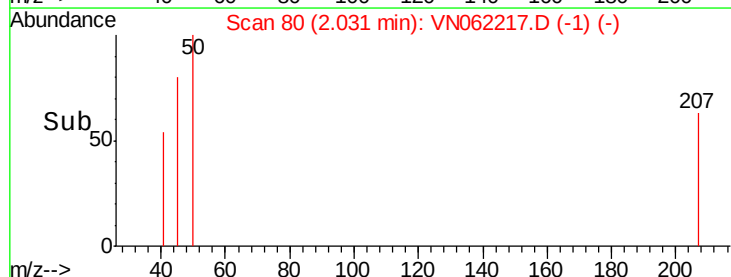
150

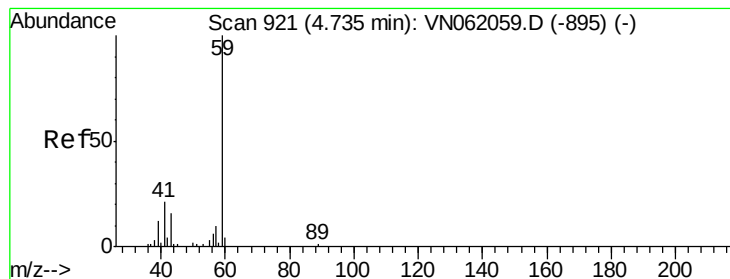
100

50

0

Time--> 2.02 2.04 2.06





#11

Tert butyl alcohol

Concen: 0.243 ug/l

RT: 4.74 min Scan# 922

Delta R.T. 0.00 min

Lab File: VN062217.D

Acq: 30 Jun 2020 4:11

Instrument :

MSVOA_N

ClientSampleId :

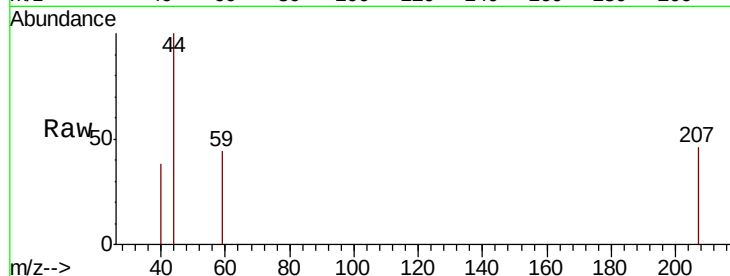
PB129816ZHE#02

Tot Ion: 59 Resp: 99

Ion Ratio Lower Upper

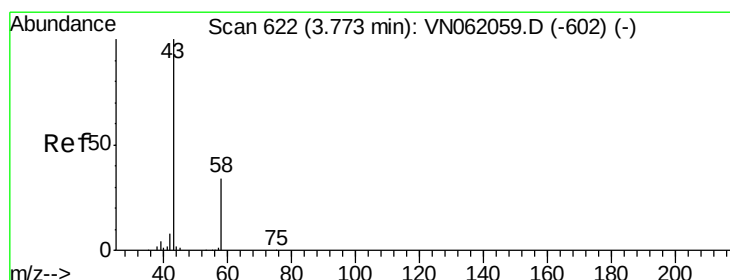
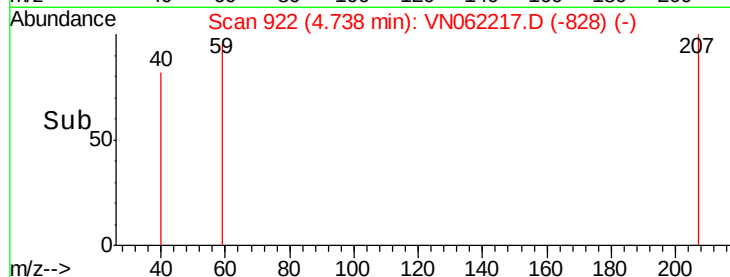
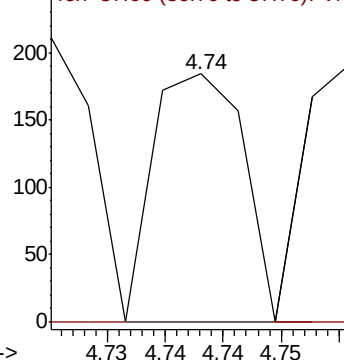
59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#16

Acetone

Concen: 5.056 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062217.D

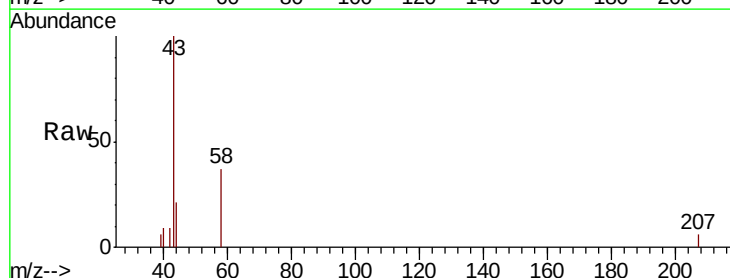
Acq: 30 Jun 2020 4:11

Tgt Ion: 43 Resp: 8026

Ion Ratio Lower Upper

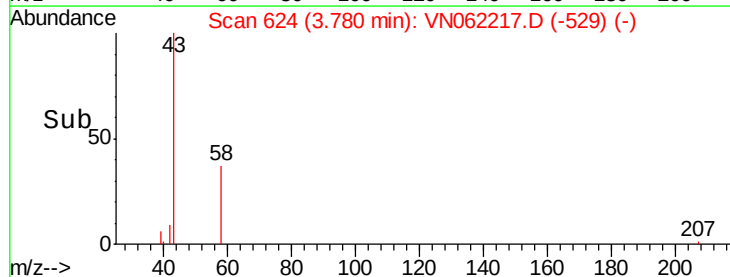
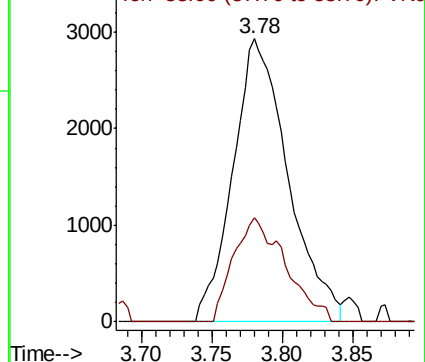
43 100

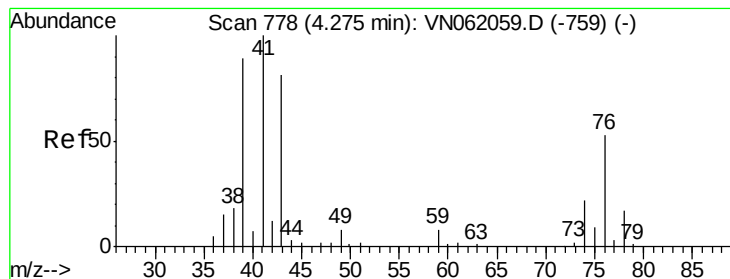
58 36.7 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#18

Methyl Acetate

Concen: 0.568 ug/l

RT: 4.28 min Scan# 780

Delta R.T. 0.01 min

Lab File: VN062217.D

Acq: 30 Jun 2020 4:11

Instrument :

MSVOA_N

ClientSampleId :

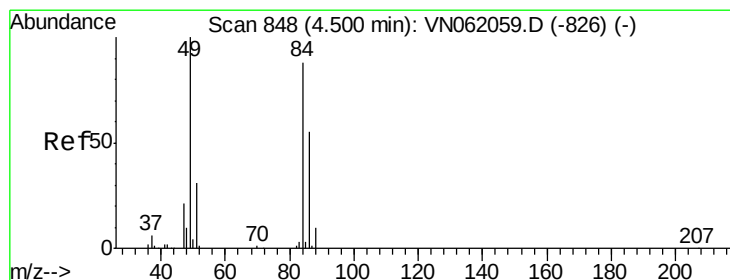
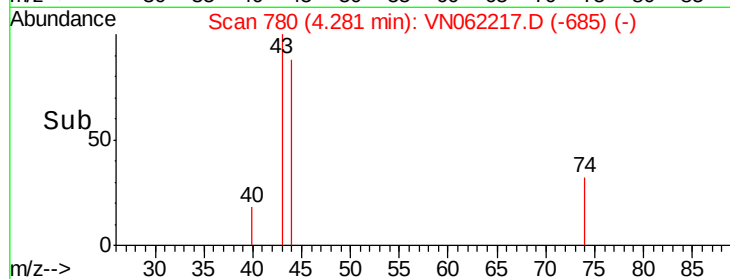
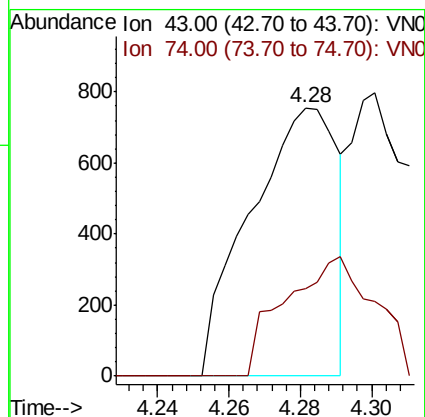
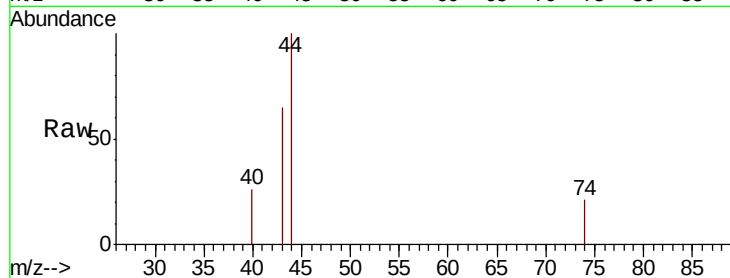
PB129816ZHE#02

Tot Ion: 43 Resp: 1280

Ion Ratio Lower Upper

43 100

74 45.4 22.9 34.3#



#20

Methylene Chloride

Concen: 2.652 ug/l

RT: 4.50 min Scan# 848

Delta R.T. 0.00 min

Lab File: VN062217.D

Acq: 30 Jun 2020 4:11

Tgt Ion: 84 Resp: 7432

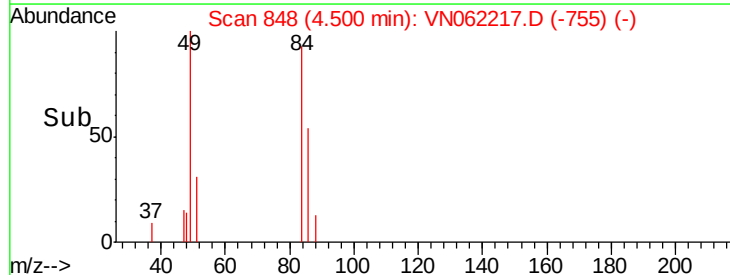
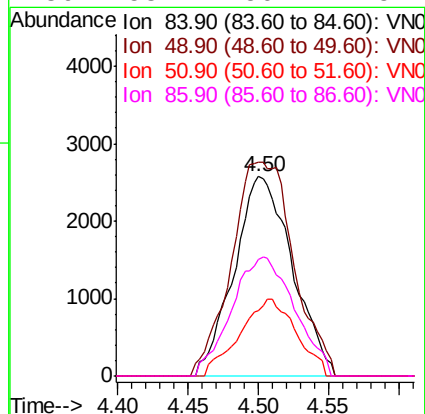
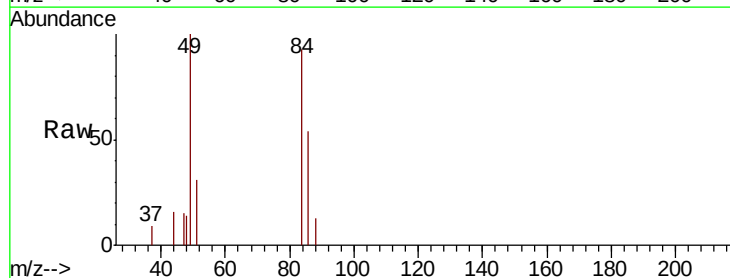
Ion Ratio Lower Upper

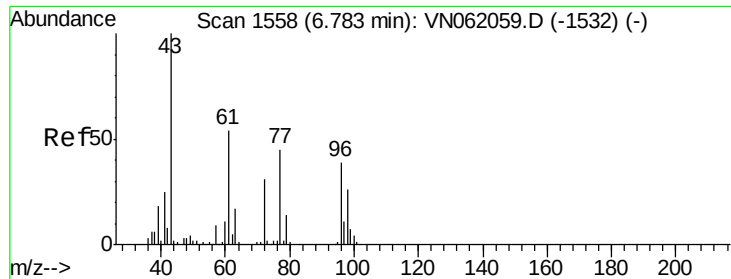
84 100

49 107.0 90.6 136.0

51 32.9 27.8 41.8

86 58.1 50.1 75.1

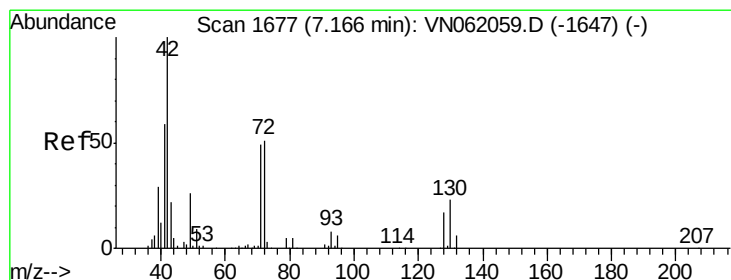
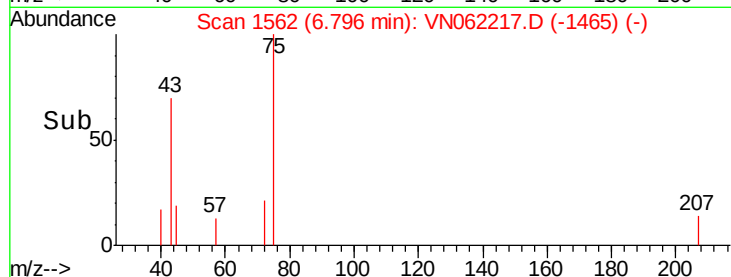
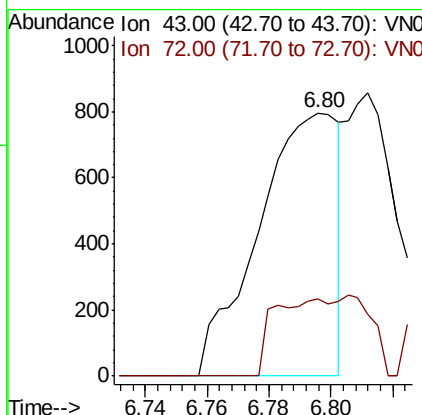
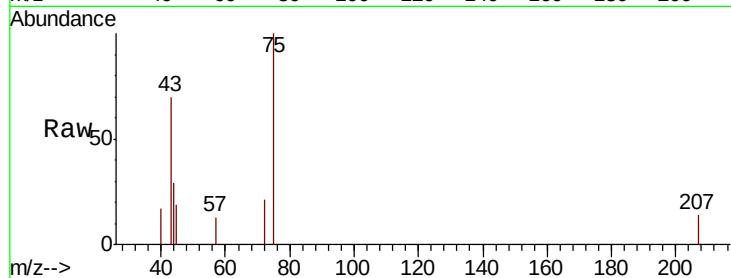




#25
 2-Butanone
 Concen: 1.031 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. 0.01 min
 Lab File: VN062217.D
 Acq: 30 Jun 2020 4:11

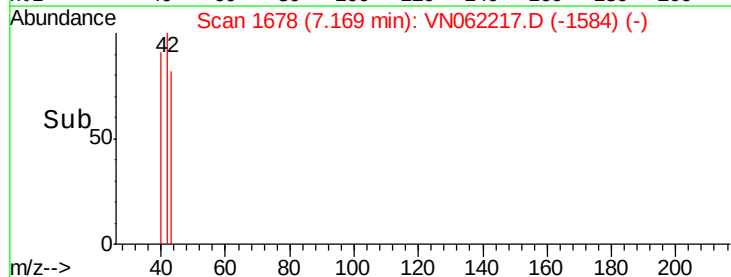
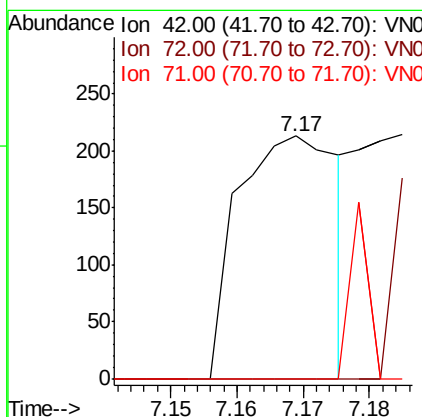
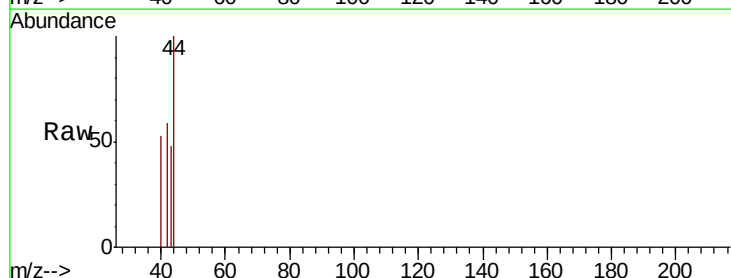
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129816ZHE#02

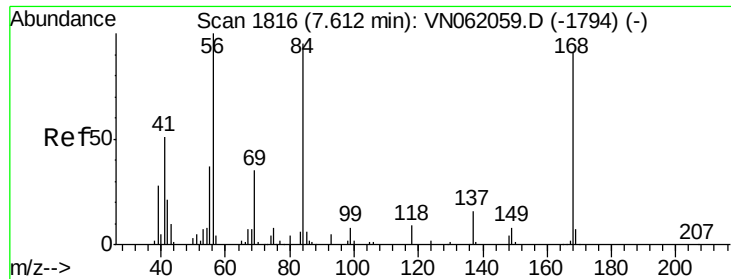
Tot Ion: 43 Resp: 1428
 Ion Ratio Lower Upper
 43 100
 72 29.3 24.8 37.2



#29
 Tetrahydrofuran
 Concen: 0.246 ug/l
 RT: 7.17 min Scan# 1678
 Delta R.T. 0.00 min
 Lab File: VN062217.D
 Acq: 30 Jun 2020 4:11

Tgt Ion: 42 Resp: 223
 Ion Ratio Lower Upper
 42 100
 72 15.2 41.1 61.7#
 71 13.5 38.2 57.4#

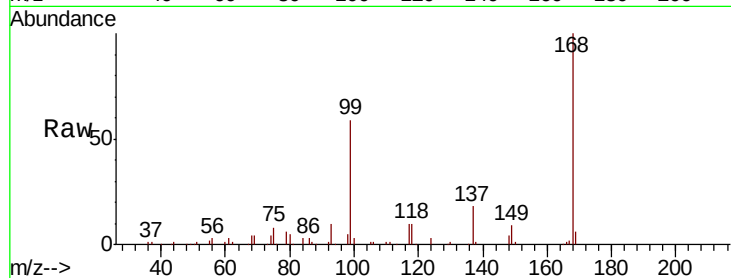




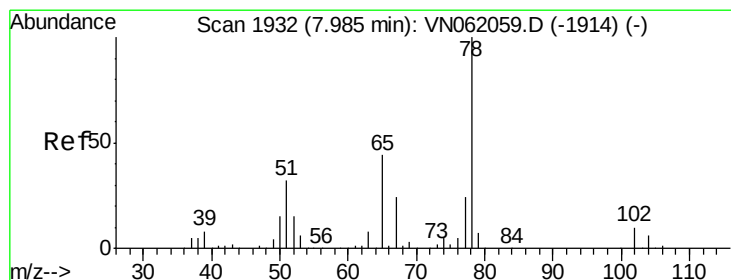
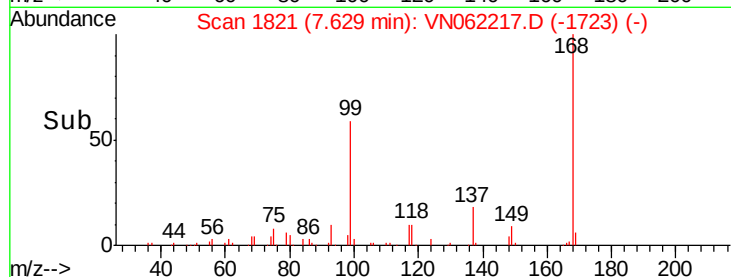
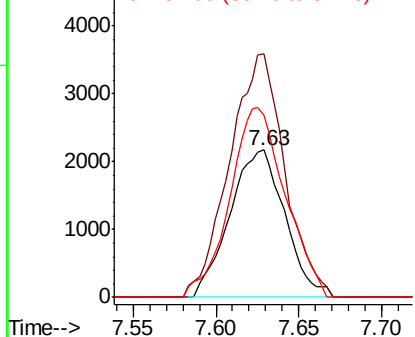
#31
Cyclohexane
Concen: 1.280 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN062217.D
Acq: 30 Jun 2020 4:11

Instrument :
MSVOA_N
ClientSampleId :
PB129816ZHE#02

Tot Ion: 56 Resp: 5011
Ion Ratio Lower Upper
56 100
69 165.4 28.0 42.0#
84 123.4 76.1 114.1#

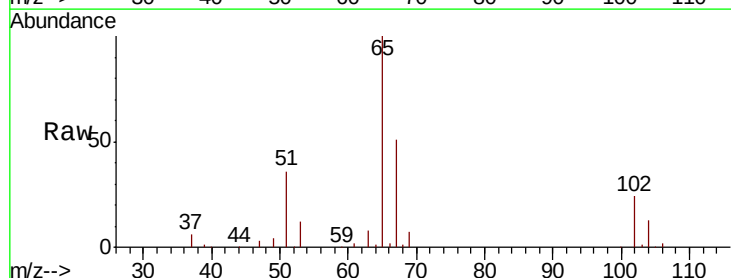


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

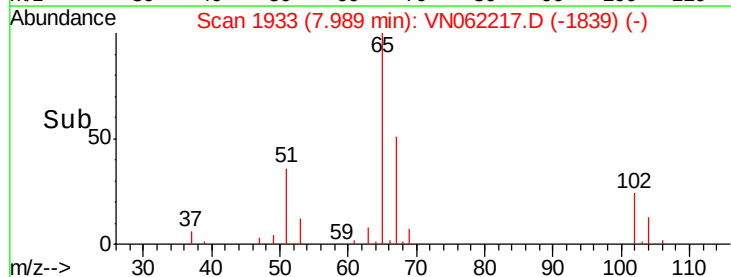
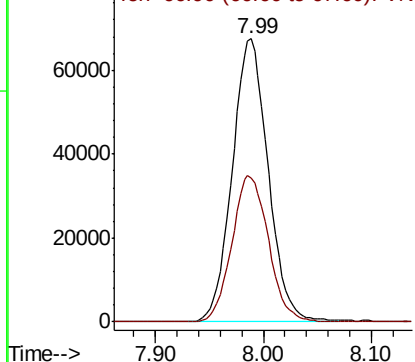


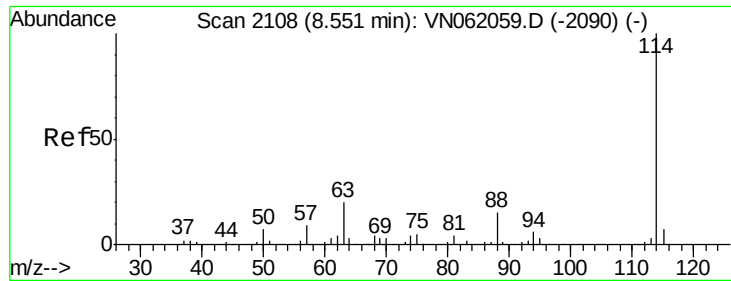
#33
1,2-Dichloroethane-d4
Concen: 55.177 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062217.D
Acq: 30 Jun 2020 4:11

Tgt Ion: 65 Resp: 156334
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.2



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

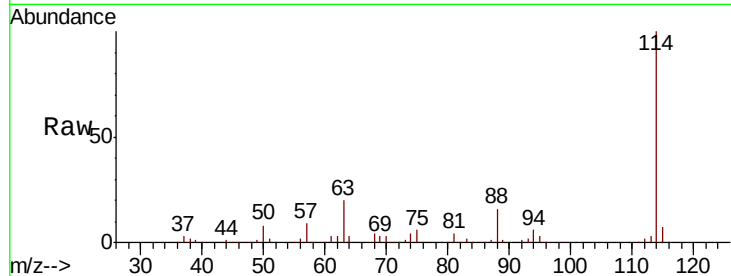




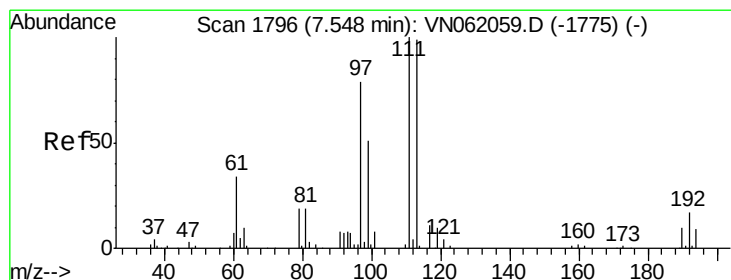
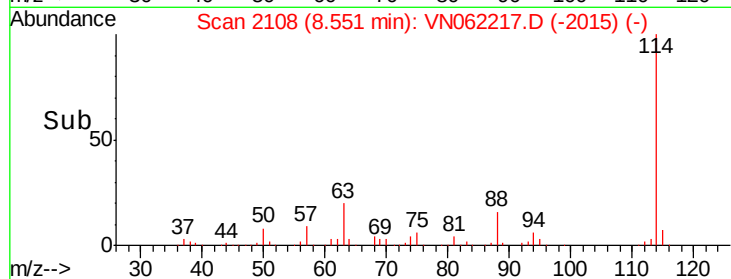
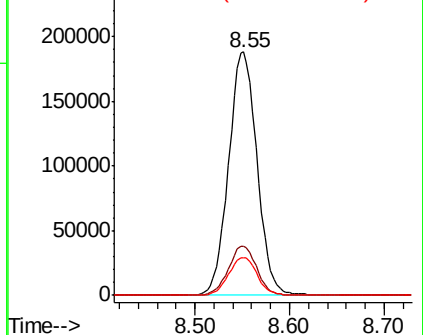
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062217.D
 Acq: 30 Jun 2020 4:11

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Tot Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	39.2
88	15.5	0.0	30.8

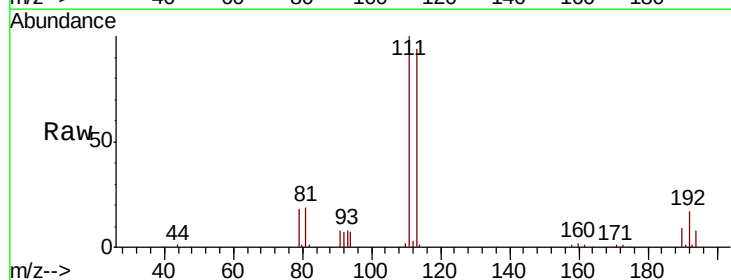


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

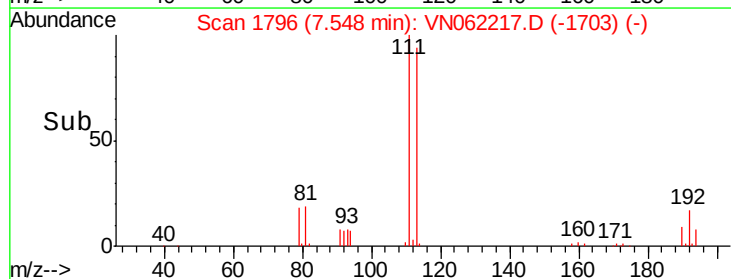
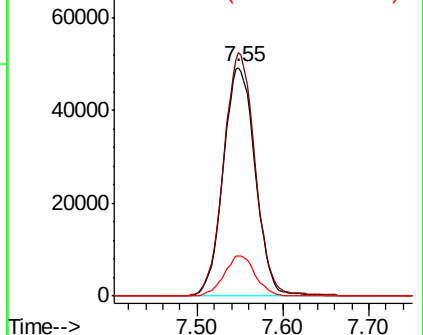


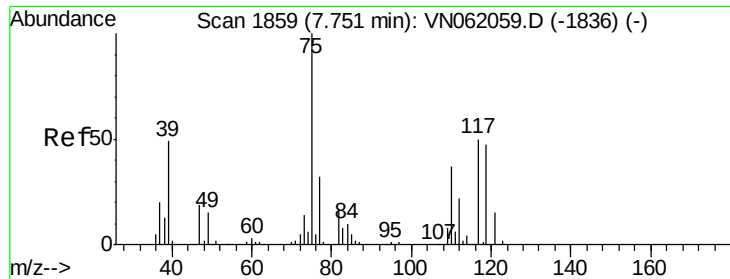
#35
 Dibromofluoromethane
 Concen: 50.620 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062217.D
 Acq: 30 Jun 2020 4:11

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.7	82.2	123.4
192	17.0	14.0	21.0



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

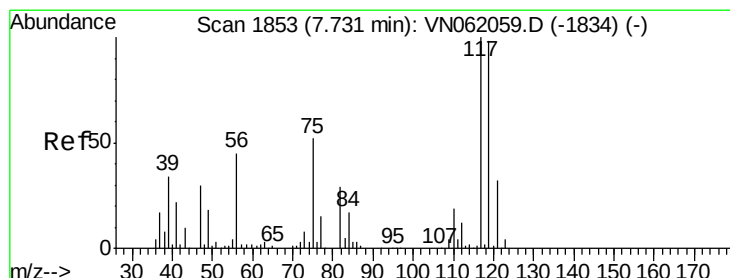
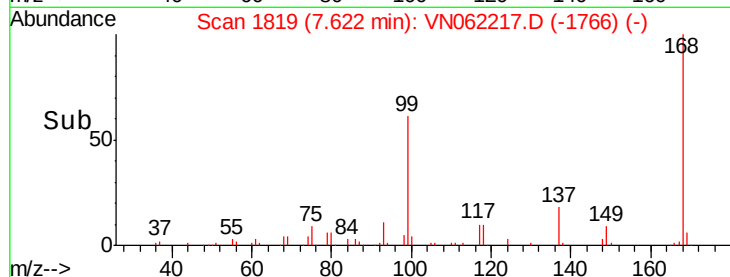
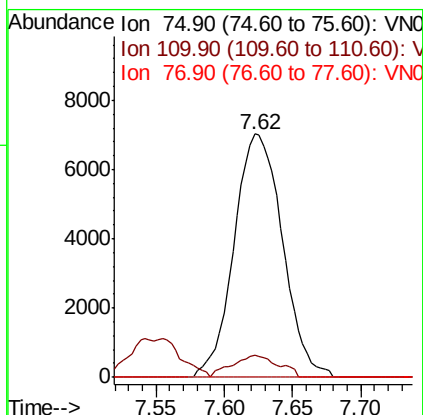
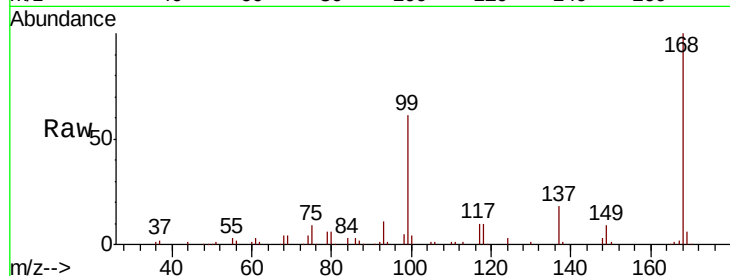




#36
 1,1-Dichloropropene
 Concen: 4.386 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062217.D
 Acq: 30 Jun 2020 4:11

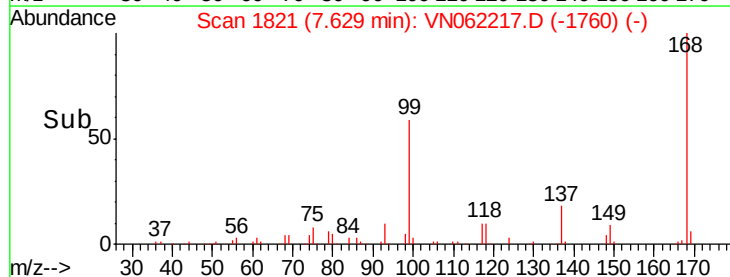
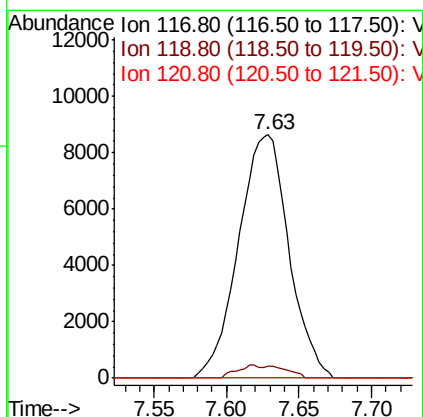
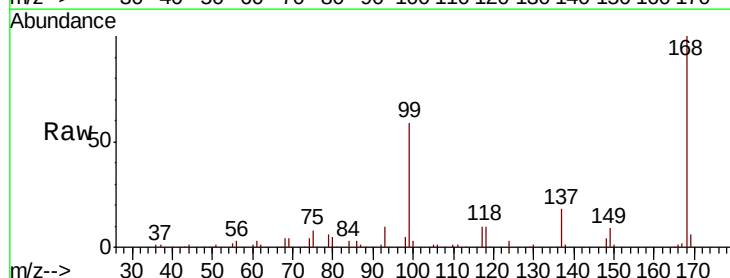
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129816ZHE#02

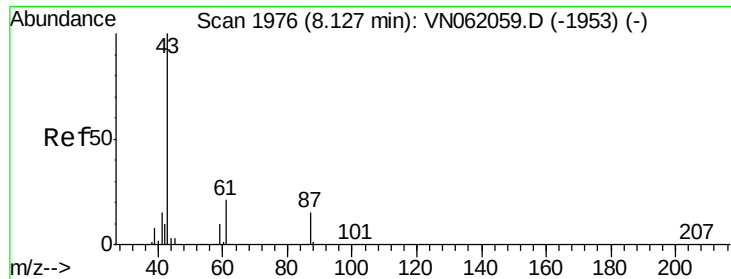
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.9	53.8#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.608 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.10 min
 Lab File: VN062217.D
 Acq: 30 Jun 2020 4:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	78.2	117.2#
121	0.0	25.8	38.6#





#43

Isopropyl Acetate

Concen: 9.715 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062217.D

Acq: 30 Jun 2020 4:11

Instrument :

MSVOA_N

ClientSampleId :

PB129816ZHE#02

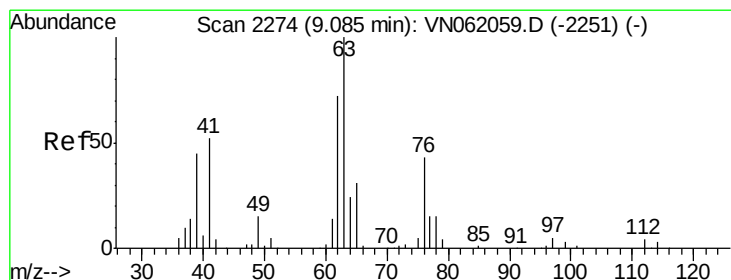
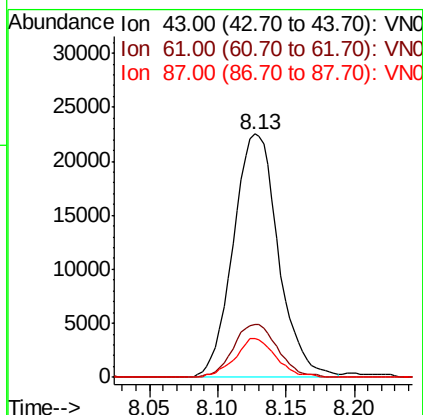
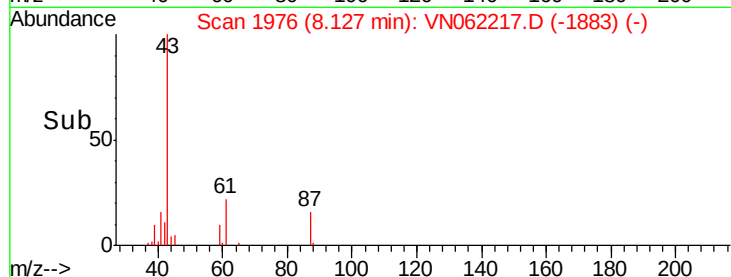
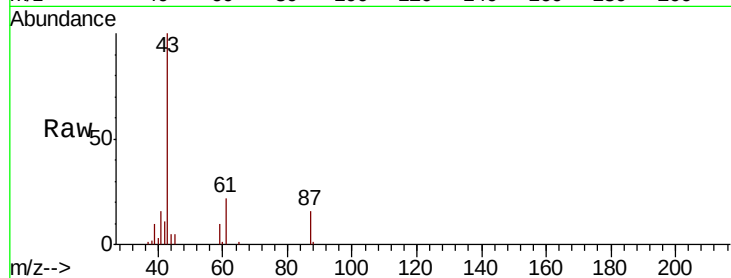
Tot Ion: 43 Resp: 51760

Ion Ratio Lower Upper

43 100

61 21.5 17.2 25.8

87 14.4 12.1 18.1



#45

1,2-Dichloropropane

Concen: 0.495 ug/l

RT: 9.24 min Scan# 2322

Delta R.T. 0.15 min

Lab File: VN062217.D

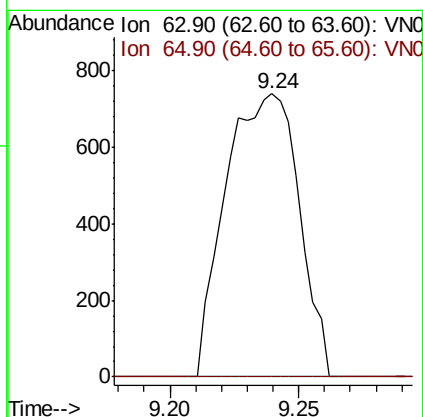
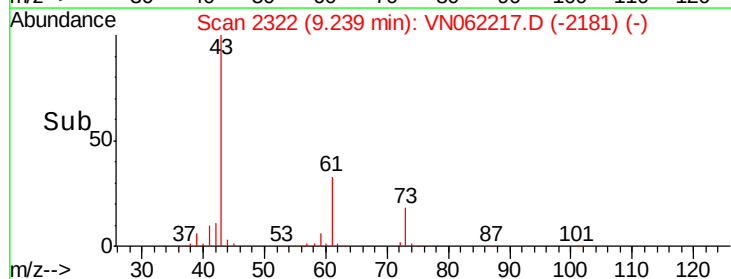
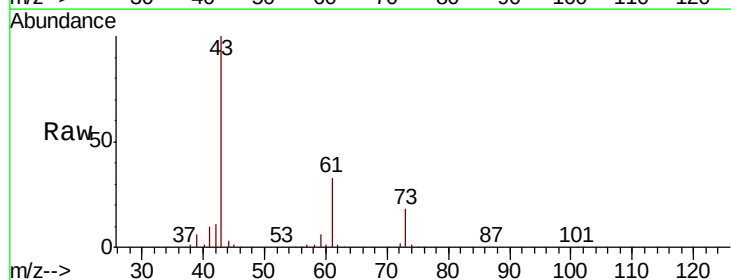
Acq: 30 Jun 2020 4:11

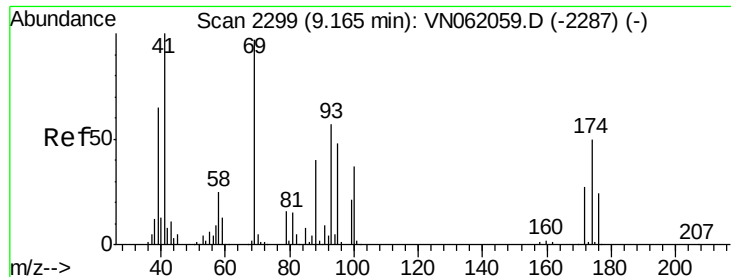
Tgt Ion: 63 Resp: 1468

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

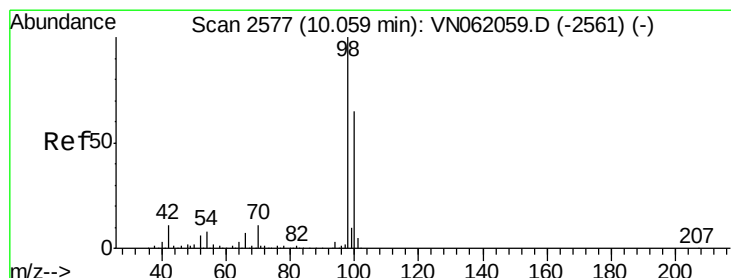
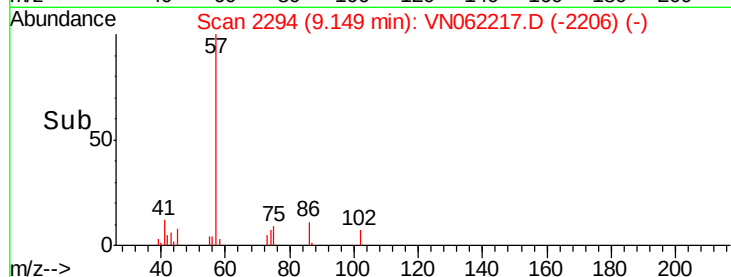
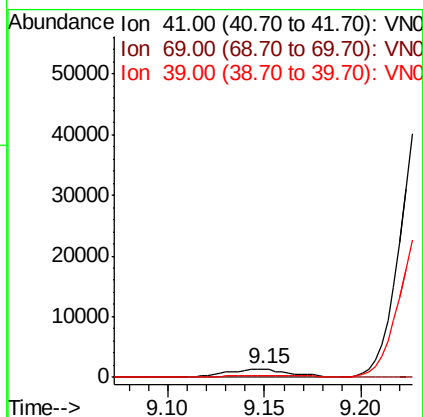
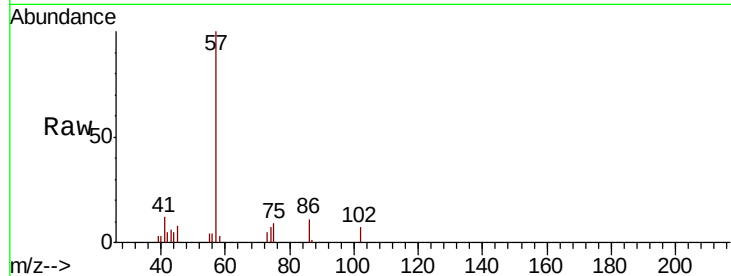




#48
Methvl methacrylate
Concen: 1.263 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN062217.D
Acq: 30 Jun 2020 4:11

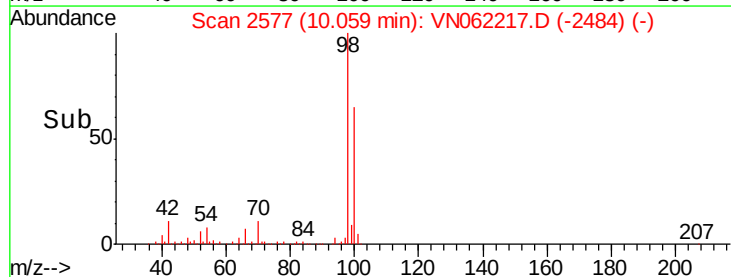
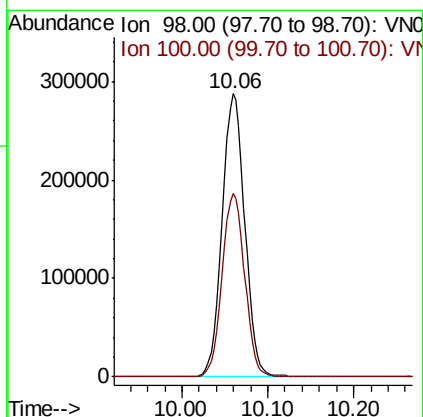
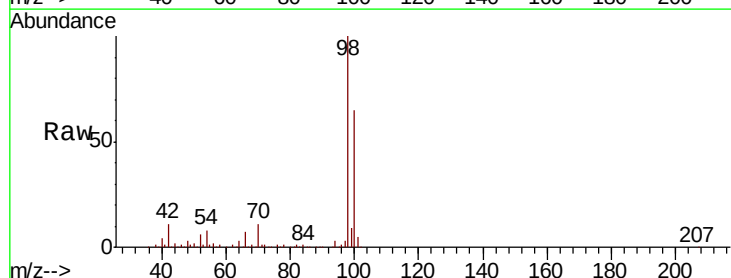
Instrument :
MSVOA_N
ClientSampleId :
PB129816ZHE#02

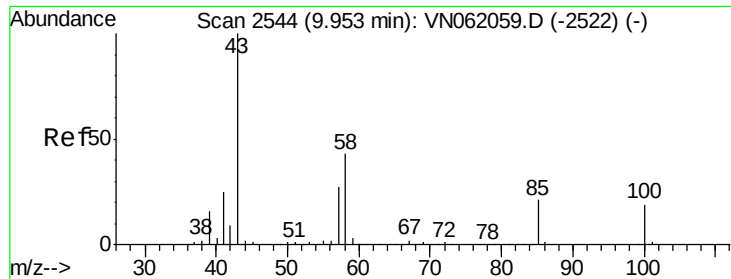
Tot Ion: 41 Resp: 3017
Ion Ratio Lower Upper
41 100
69 0.0 80.7 121.1#
39 0.0 54.5 81.7#



#50
Toluene-d8
Concen: 52.359 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062217.D
Acq: 30 Jun 2020 4:11

Tgt Ion: 98 Resp: 527253
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8

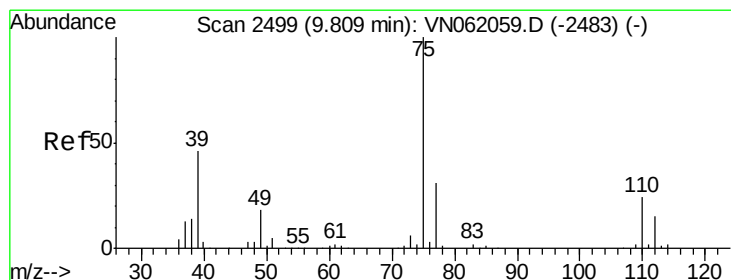
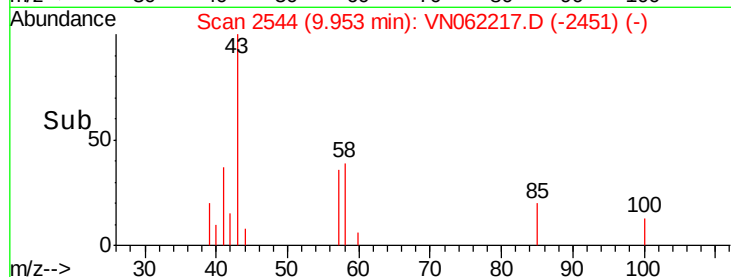
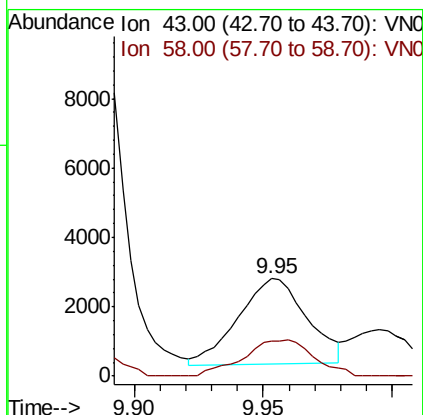
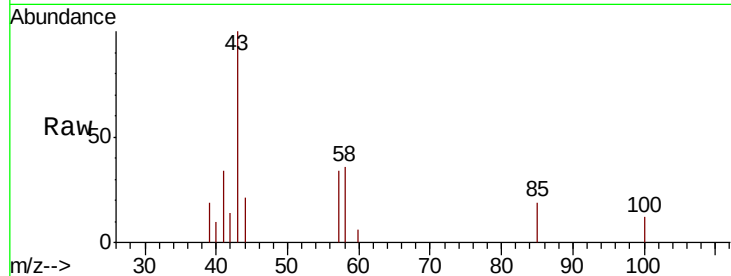




#51
 4-Methyl-2-Pentanone
 Concen: 1.480 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. 0.00 min
 Lab File: VN062217.D
 Acq: 30 Jun 2020 4:11

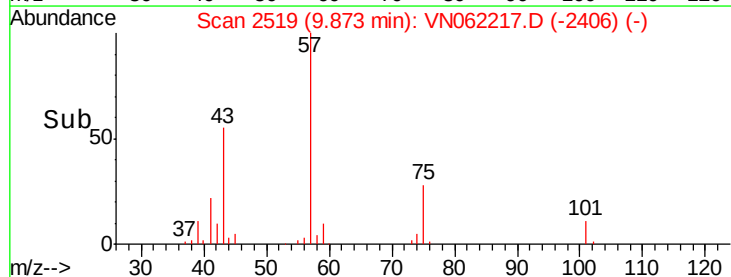
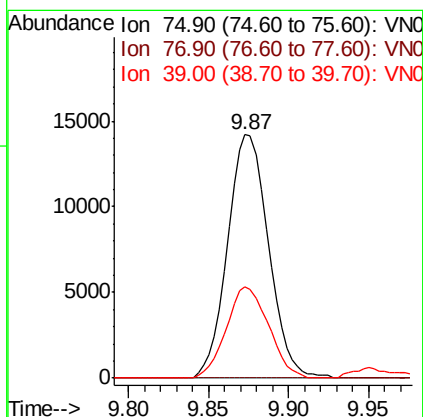
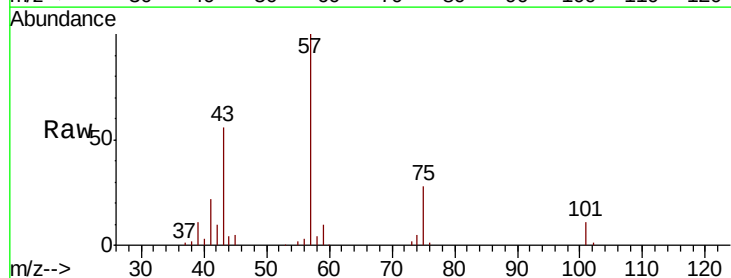
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129816ZHE#02

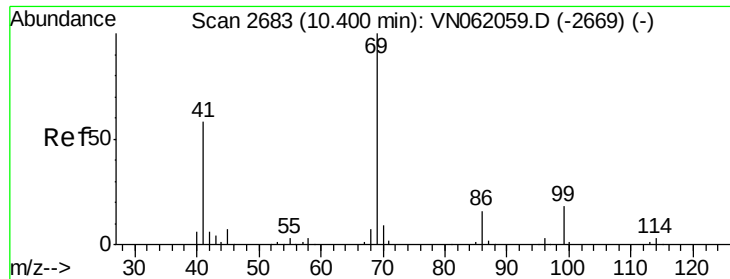
Tot Ion: 43 Resp: 4606
 Ion Ratio Lower Upper
 43 100
 58 43.0 34.2 51.2



#54
 cis-1,3-Dichloropropene
 Concen: 5.214 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN062217.D
 Acq: 30 Jun 2020 4:11

Tgt Ion: 75 Resp: 24811
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 37.7 36.9 55.3





#56

Ethyl methacrylate

Concen: 0.378 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062217.D

Acq: 30 Jun 2020 4:11

Instrument :

MSVOA_N

ClientSampleId :

PB129816ZHE#02

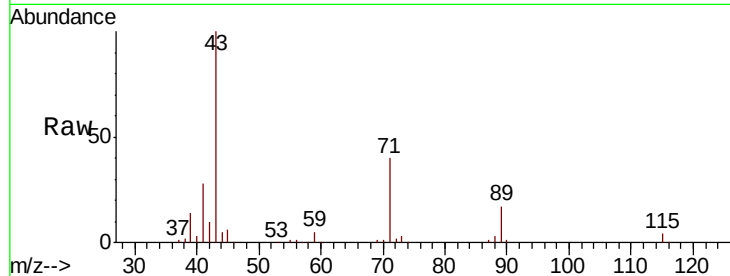
Tot Ion: 69 Resp: 1457

Ion Ratio Lower Upper

69 100

41 3851.6 46.6 70.0#

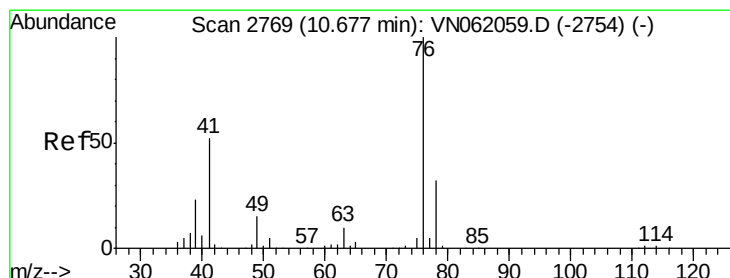
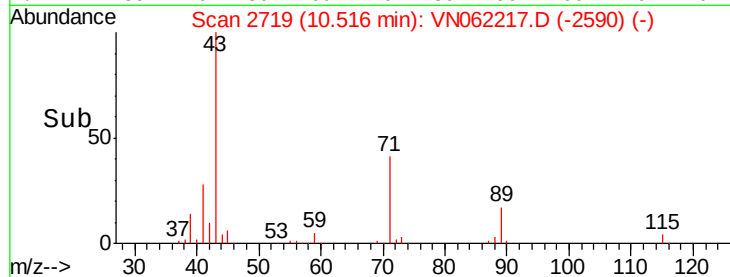
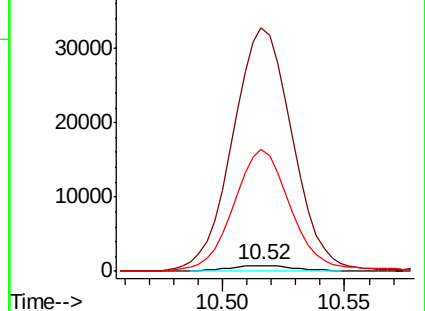
39 1848.7 31.0 46.4#



Abundance Ion 69.00 (68.70 to 69.70): VN062217.D (-2590) (-)

Ion 41.00 (40.70 to 41.70): VN062217.D (-2590) (-)

Ion 39.00 (38.70 to 39.70): VN062217.D (-2590) (-)



#57

1,3-Dichloropropane

Concen: 1.038 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.06 min

Lab File: VN062217.D

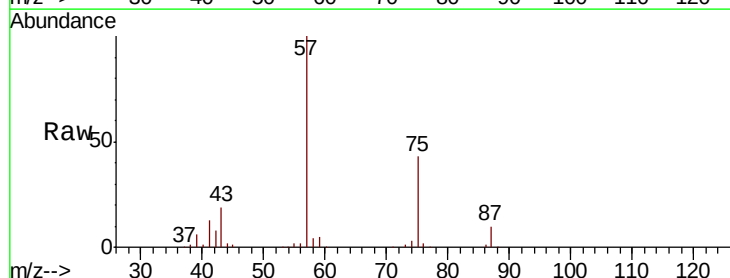
Acq: 30 Jun 2020 4:11

Tgt Ion: 76 Resp: 5153

Ion Ratio Lower Upper

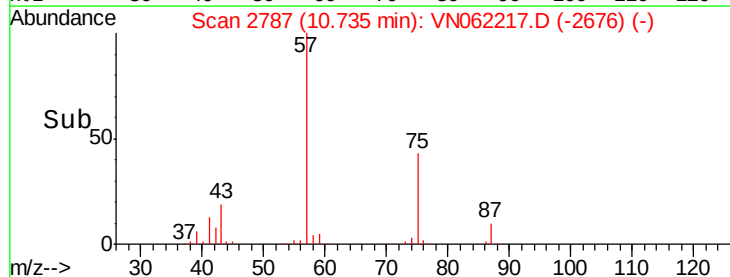
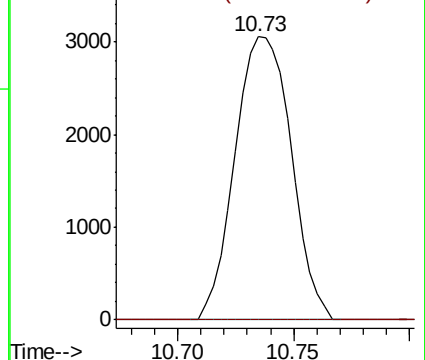
76 100

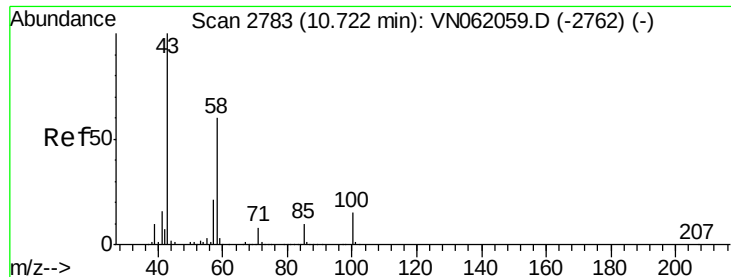
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN062217.D (-2676) (-)

Ion 77.90 (77.60 to 78.60): VN062217.D (-2676) (-)

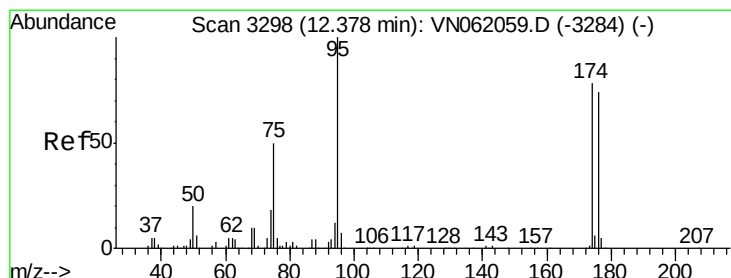
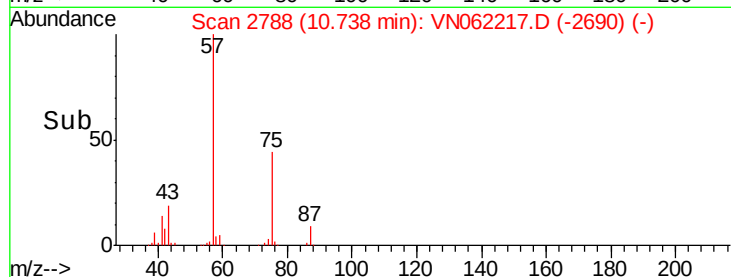
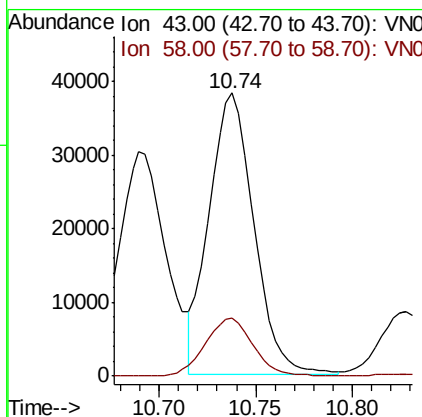
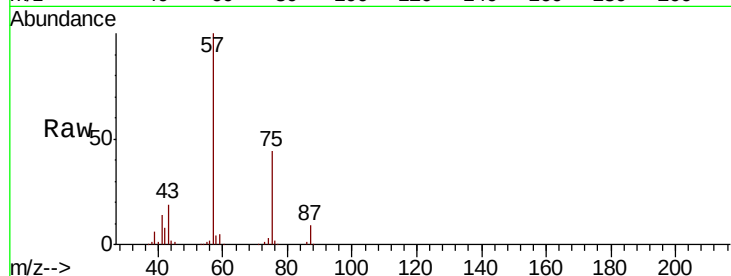




#59
2-Hexanone
Concen: 27.359 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062217.D
Acq: 30 Jun 2020 4:11

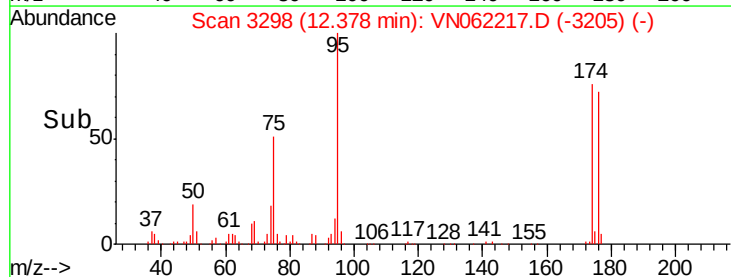
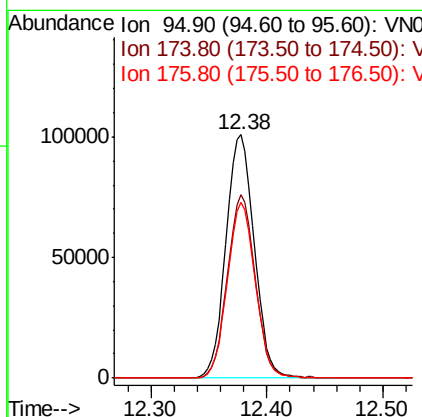
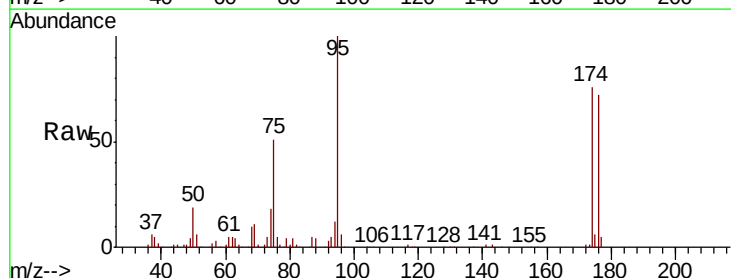
Instrument :
MSVOA_N
ClientSampleId :
PB129816ZHE#02

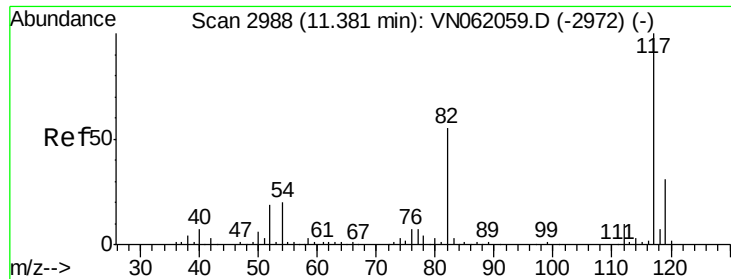
Tot Ion: 43 Resp: 61495
Ion Ratio Lower Upper
43 100
58 21.8 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 50.059 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062217.D
Acq: 30 Jun 2020 4:11

Tgt Ion: 95 Resp: 170310
Ion Ratio Lower Upper
95 100
174 73.9 0.0 154.8
176 71.0 0.0 147.4

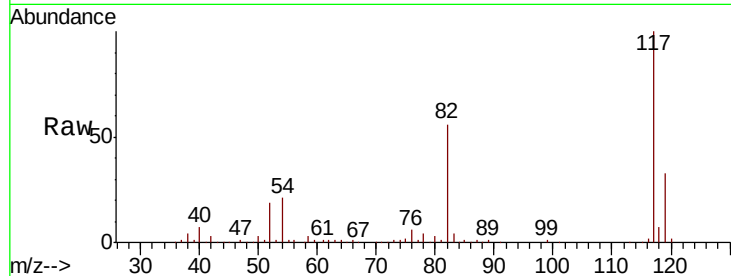




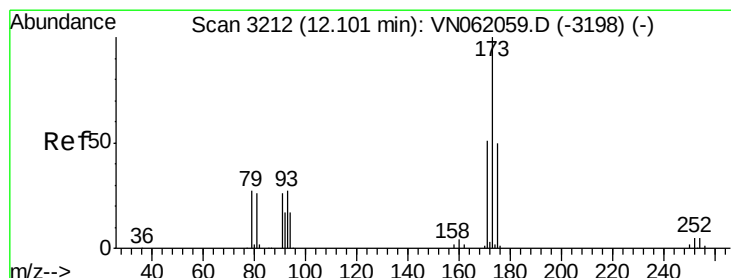
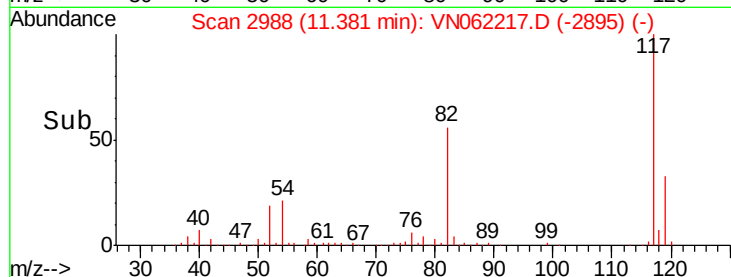
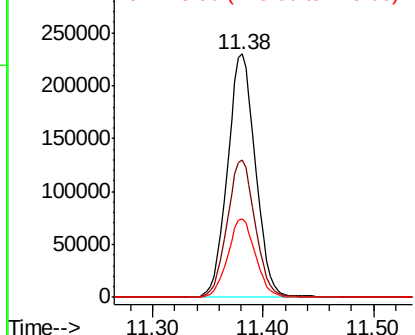
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062217.D
Acq: 30 Jun 2020 4:11

Instrument :
MSVOA_N
ClientSampleId :
PB129816ZHE#02

Tot Ion:117 Resp: 403696
Ion Ratio Lower Upper
117 100
82 56.4 43.8 65.8
119 32.5 25.2 37.8

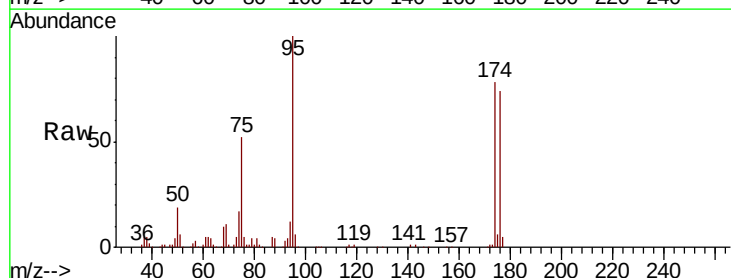


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

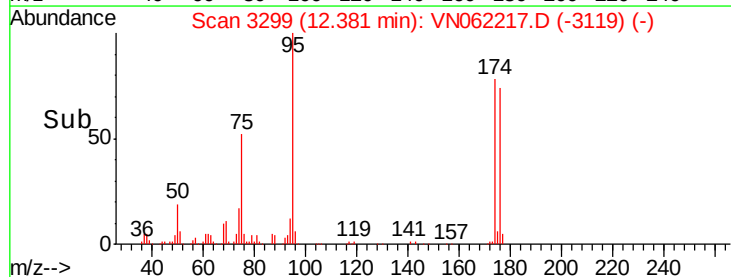
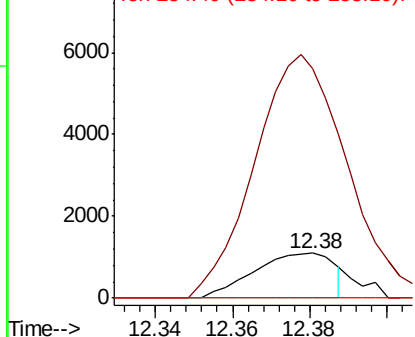


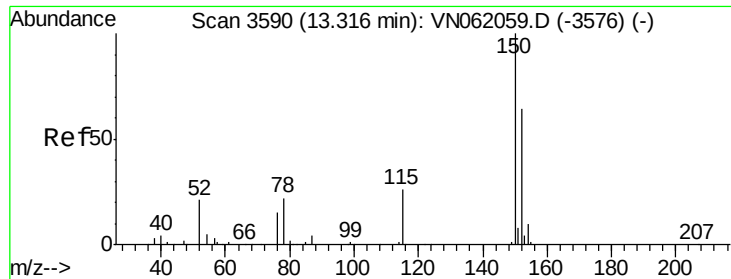
#71
Bromoform
Concen: 0.724 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.28 min
Lab File: VN062217.D
Acq: 30 Jun 2020 4:11

Tgt Ion:173 Resp: 1578
Ion Ratio Lower Upper
173 100
175 522.0 24.7 74.1#
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

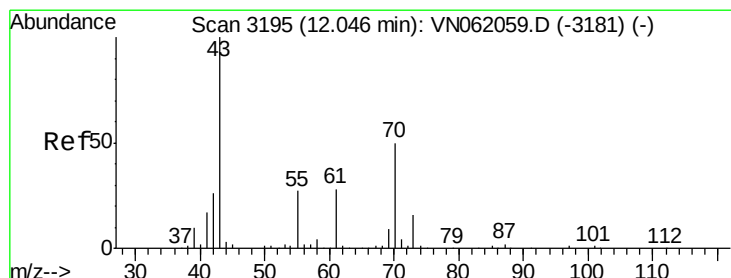
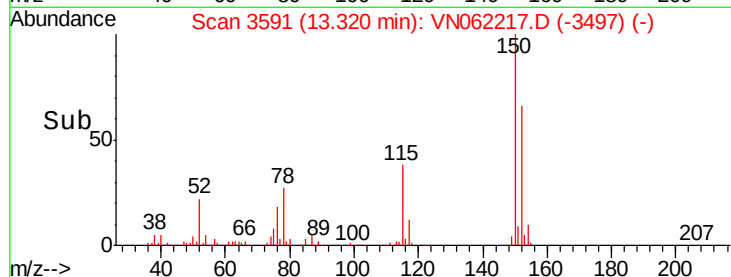
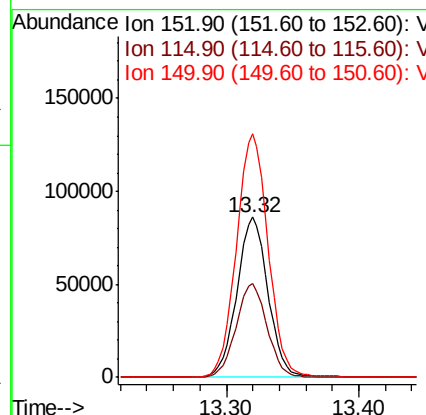
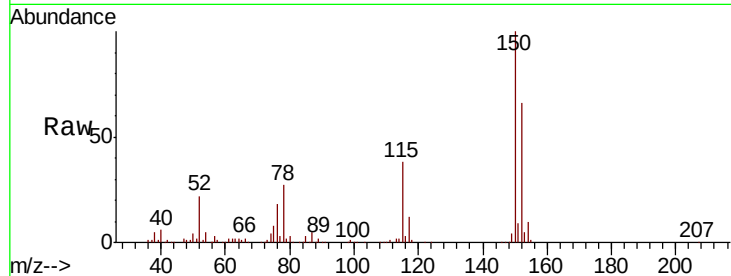




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3591
 Delta R.T. 0.00 min
 Lab File: VN062217.D
 Acq: 30 Jun 2020 4:11

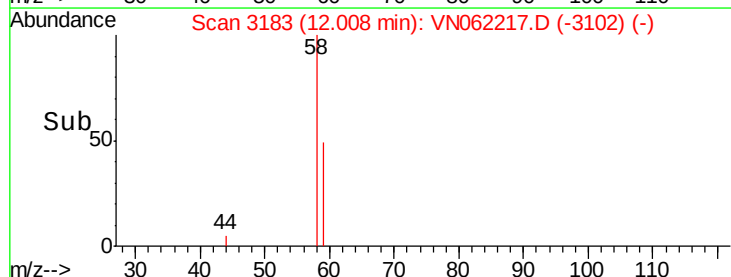
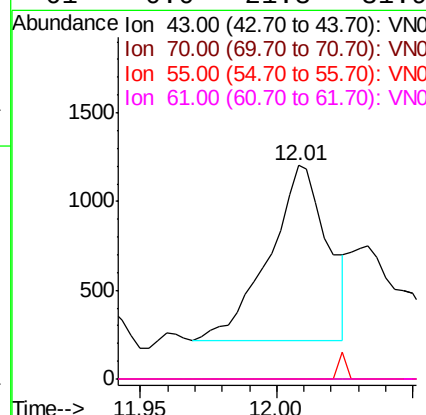
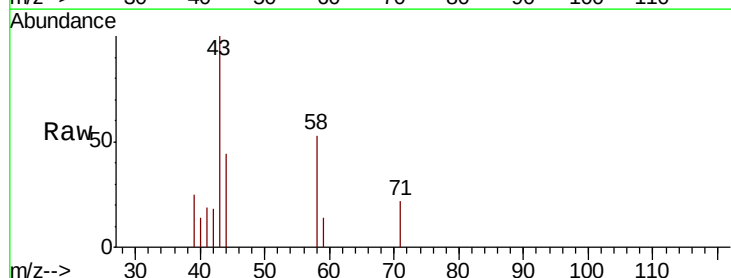
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129816ZHE#02

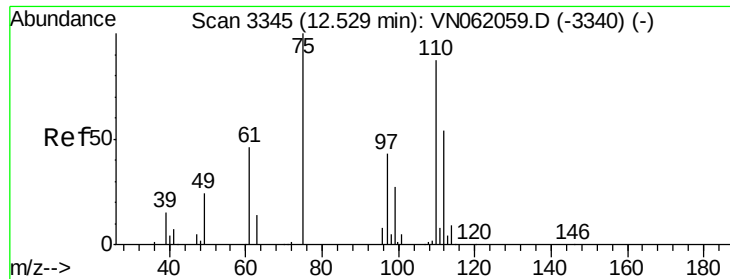
Tot Ion:152 Resp: 139901
 Ion Ratio Lower Upper
 152 100
 115 58.5 29.5 88.5
 150 155.8 0.0 351.4



#74
 N-ethyl acetate
 Concen: 3.688 ug/l
 RT: 12.01 min Scan# 3183
 Delta R.T. -0.04 min
 Lab File: VN062217.D
 Acq: 30 Jun 2020 4:11

Tgt Ion: 43 Resp: 1473
 Ion Ratio Lower Upper
 43 100
 70 0.0 39.4 59.2#
 55 0.0 21.7 32.5#
 61 0.0 21.3 31.9#





#76

1,2,3-Trichloropropane

Concen: 26.431 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062217.D

Acq: 30 Jun 2020 4:11

Instrument :

MSVOA_N

ClientSampleId :

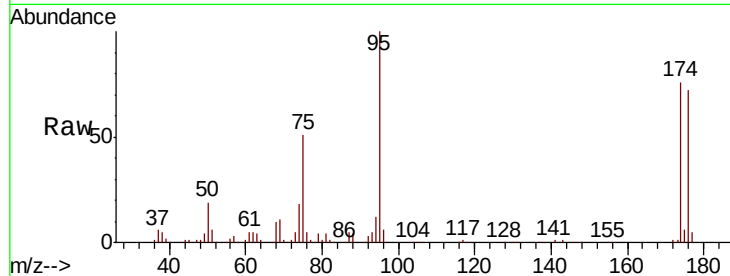
PB129816ZHE#02

Tot Ion: 75 Resp: 87047

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN062059.D (-3340) (-)

Ion 77.00 (76.70 to 77.70): VN062059.D (-3340) (-)

12.38

50000

40000

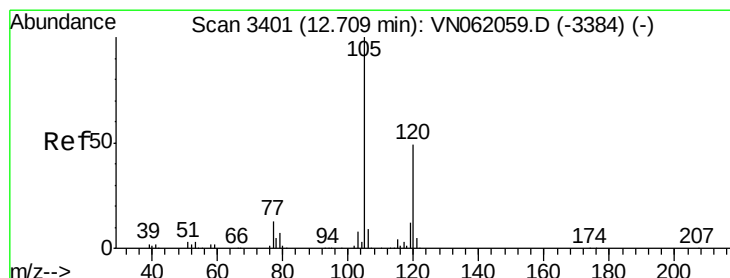
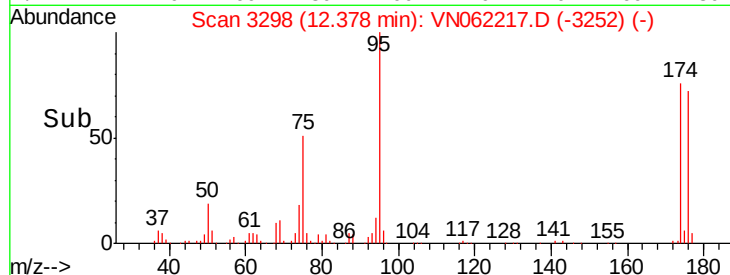
30000

20000

10000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.314 ug/l

RT: 12.71 min Scan# 3400

Delta R.T. -0.00 min

Lab File: VN062217.D

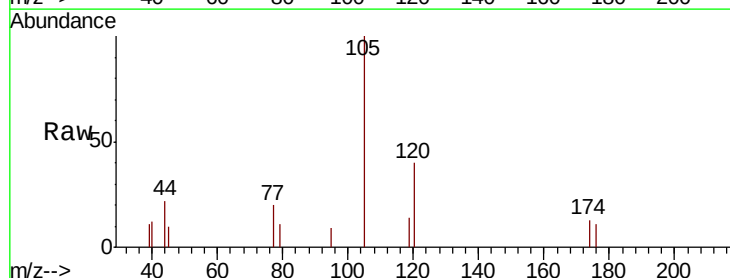
Acq: 30 Jun 2020 4:11

Tgt Ion: 105 Resp: 2754

Ion Ratio Lower Upper

105 100

120 44.4 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VN062059.D (-3384) (-)

Ion 120.00 (119.70 to 120.70): VN062059.D (-3384) (-)

12.71

2000

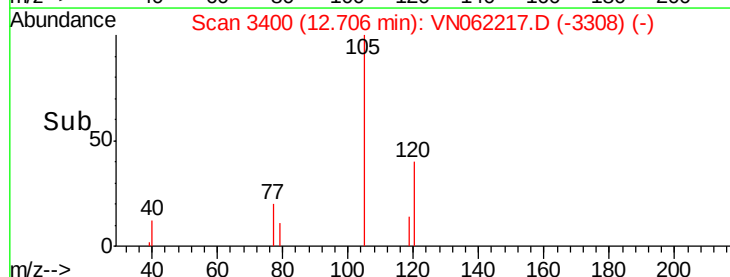
1500

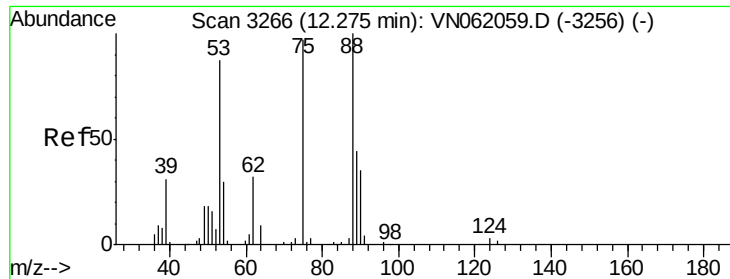
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 77.188 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062217.D

Acq: 30 Jun 2020 4:11

Instrument :

MSVOA_N

ClientSampleId :

PB129816ZHE#02

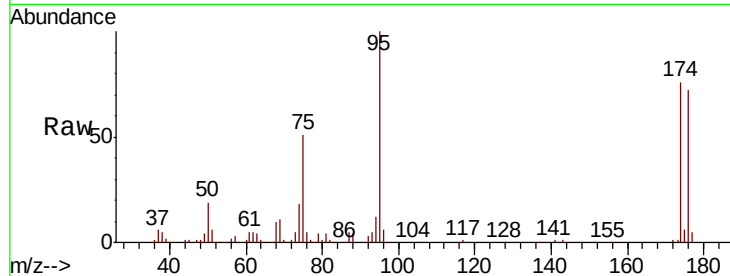
Tot Ion: 75 Resp: 87047

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

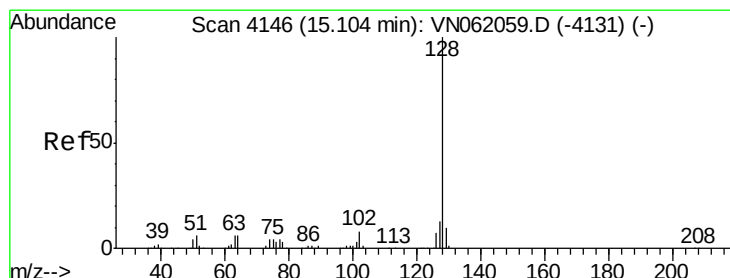
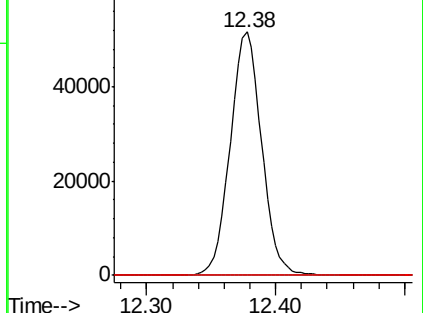
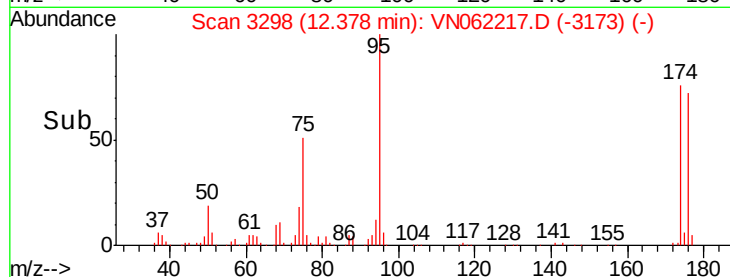
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN062217.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN062217.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN062217.D (-3173) (-)



#95

Naphthalene

Concen: 3.999 ug/l

RT: 15.11 min Scan# 4149

Delta R.T. 0.01 min

Lab File: VN062217.D

Acq: 30 Jun 2020 4:11

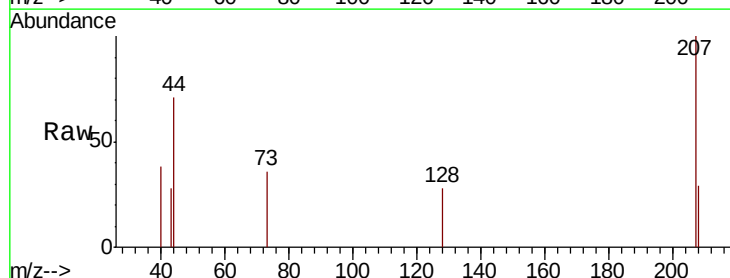
Tgt Ion: 128 Resp: 33

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN062217.D (-4053) (-)

Ion 127.00 (126.70 to 127.70): VN062217.D (-4053) (-)

Ion 129.00 (128.70 to 129.70): VN062217.D (-4053) (-)

