

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070620\
 Data File : VN062384.D
 Acq On : 6 Jul 2020 23:58
 Operator : JC/MD
 Sample : L3206-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-COMP-2

Quant Time: Jul 07 05:22:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070620W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 07 05:08:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	908454	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	1658304	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	1658181	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	628227	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	825554	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
35) Dibromofluoromethane	7.55	113	560935	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
50) Toluene-d8	10.06	98	2194562	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	
62) 4-Bromofluorobenzene	12.38	95	774243	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	

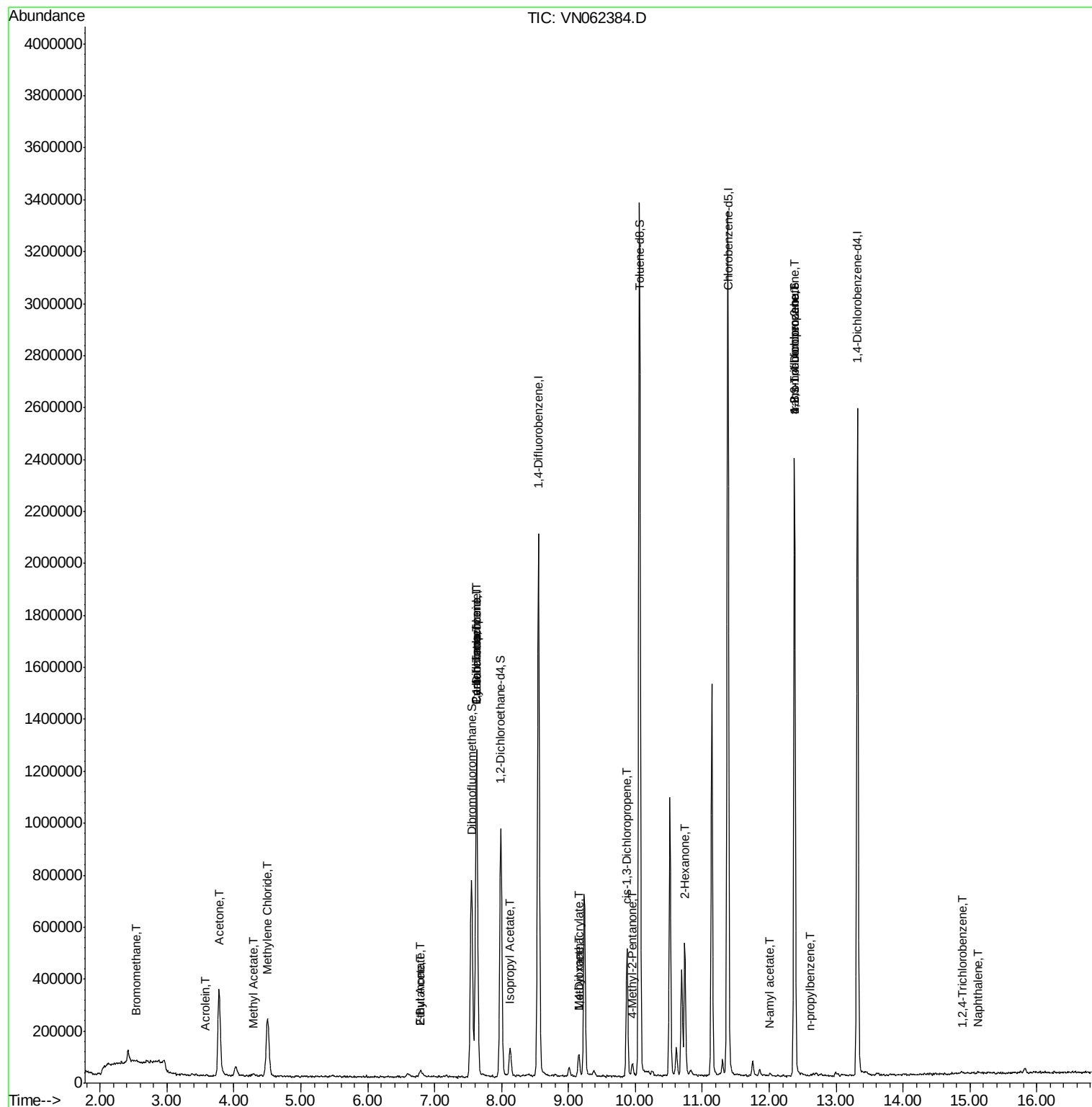
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	2082	0.308	ug/l #	9
13) Acrolein	3.57	56	357	0.706	ug/l #	74
16) Acetone	3.78	43	571297	75.409	ug/l	98
18) Methyl Acetate	4.29	43	18413	0.689	ug/l #	86
20) Methylene Chloride	4.50	84	151875	12.596	ug/l	97
23) Vinyl Acetate	5.85	43	849	Below Cal	#	81
25) 2-Butanone	6.80	43	30467	3.193	ug/l	95
31) Cyclohexane	7.63	56	29382	1.410	ug/l #	27
36) 1,1-Dichloropropene	7.63	75	86264	4.951	ug/l #	50
37) Ethyl Acetate	6.80	43	30467	1.474	ug/l #	76
38) Carbon Tetrachloride	7.62	117	102681	5.860	ug/l #	17
43) Isopropyl Acetate	8.13	43	138546	4.010	ug/l	95
48) Methyl methacrylate	9.15	41	11477	0.651	ug/l #	39
49) 1,4-Dioxane	9.17	88	377	1.574	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	34358	1.346	ug/l	97
54) cis-1,3-Dichloropropene	9.88	75	68137	3.100	ug/l #	73
59) 2-Hexanone	10.74	43	82656	5.902	ug/l #	60
74) N-amyl acetate	12.01	43	6474	0.259	ug/l #	60
76) 1,2,3-Trichloropropane	12.38	75	450662	29.699	ug/l #	100
78) n-propylbenzene	12.61	91	261	0.287	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.38	75	450662	84.931	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.90	180	342	2.763	ug/l #	69
94) Hexachlorobutadiene	15.00	225	63	Below Cal	#	19
95) Naphthalene	15.11	128	1127	2.107	ug/l #	79

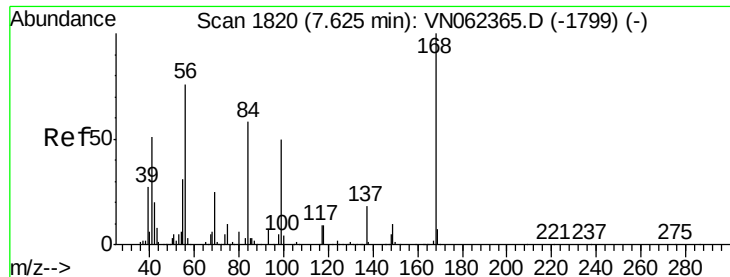
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN070620\
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Instrument :
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Quant Time: Jul 07 05:22:47 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N070620W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 07 05:08:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

Instrument :

MSVOA_N

ClientSampleId :

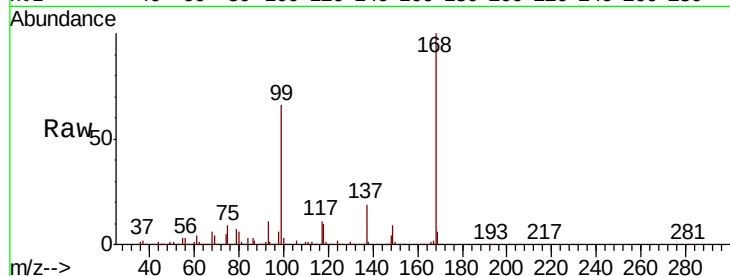
DRUM-COMP-2

Tot Ion:168 Resp: 908454

Ion Ratio Lower Upper

168 100

99 66.4 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

400000

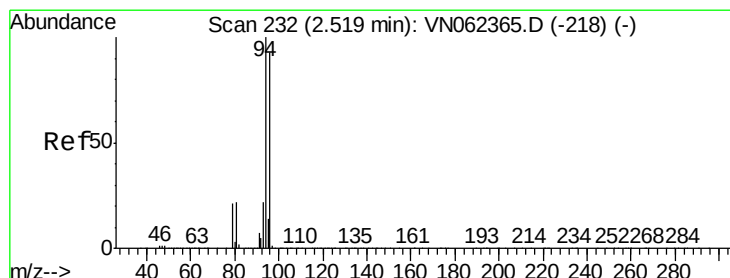
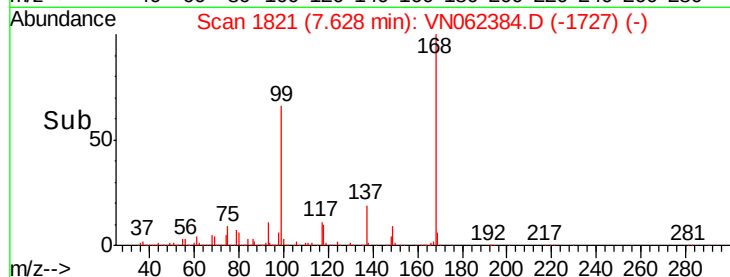
300000

200000

100000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: 0.308 ug/l

RT: 2.54 min Scan# 238

Delta R.T. 0.02 min

Lab File: VN062384.D

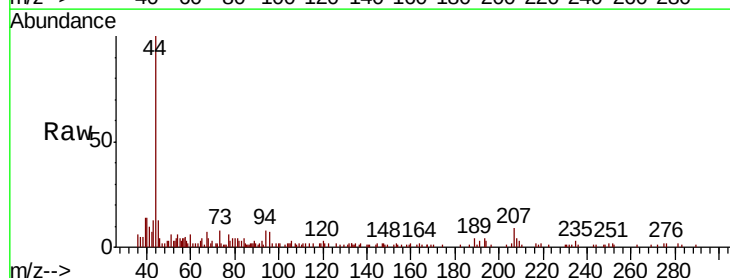
Acq: 6 Jul 2020 23:58

Tgt Ion: 94 Resp: 2082

Ion Ratio Lower Upper

94 100

96 6.2 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

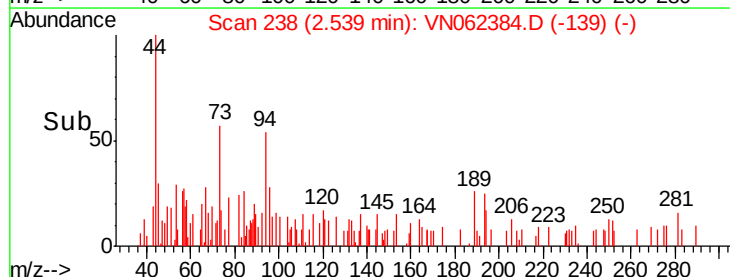
1500

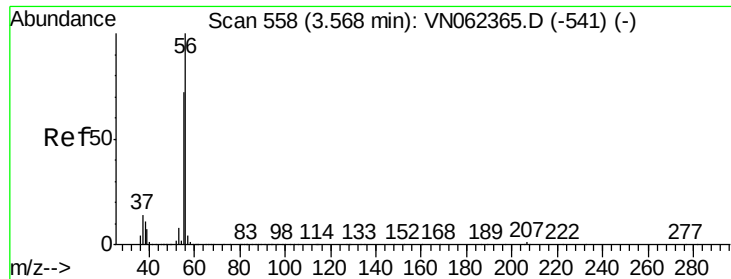
1000

500

0

Time--> 2.50 2.52 2.54 2.56 2.58

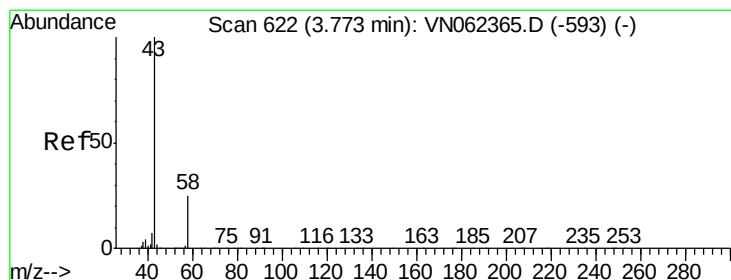
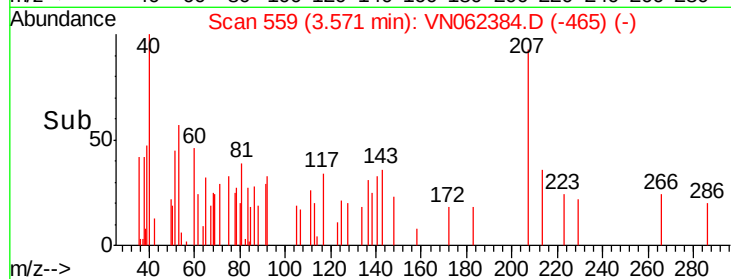
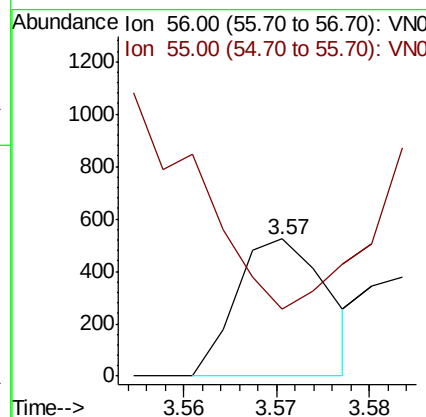
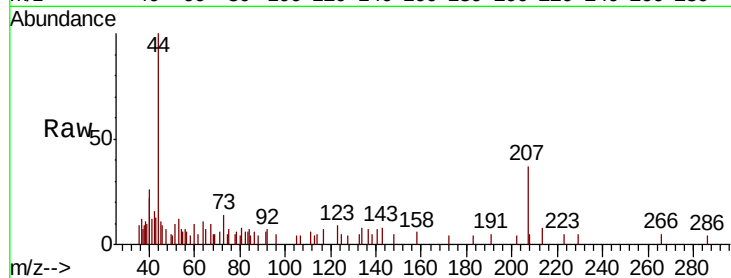




#13
Acrolein
Concen: 0.706 ug/l
RT: 3.57 min Scan# 559
Delta R.T. 0.00 min
Lab File: VN062384.D
Acq: 6 Jul 2020 23:58

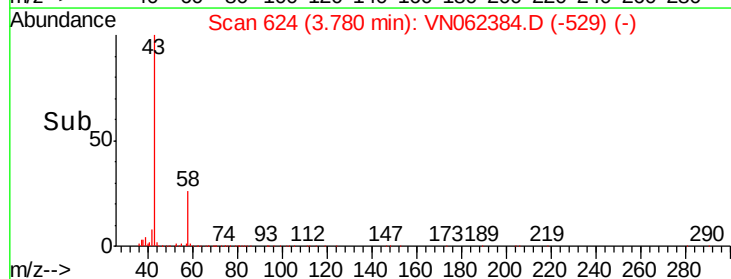
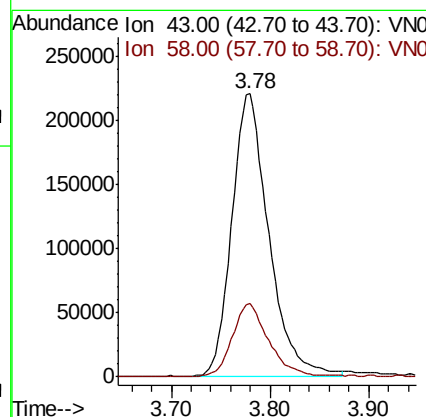
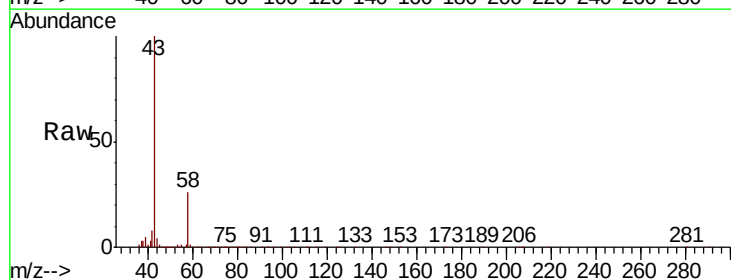
Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP-2

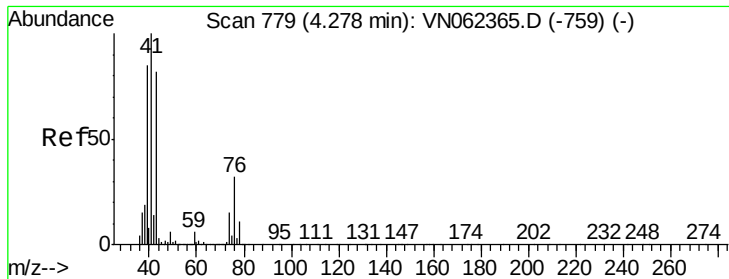
Tot Ion: 56 Resp: 357
Ion Ratio Lower Upper
56 100
55 96.9 59.6 89.4#



#16
Acetone
Concen: 75.409 ug/l
RT: 3.78 min Scan# 624
Delta R.T. 0.01 min
Lab File: VN062384.D
Acq: 6 Jul 2020 23:58

Tgt Ion: 43 Resp: 571297
Ion Ratio Lower Upper
43 100
58 25.8 19.8 29.8

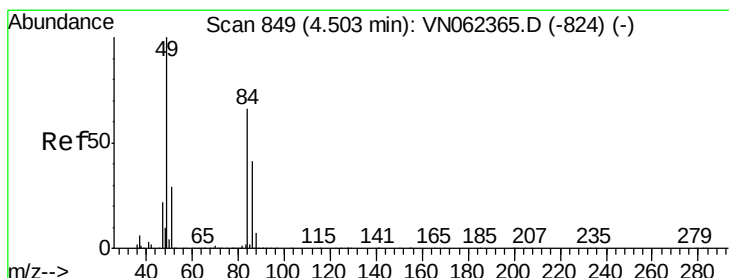
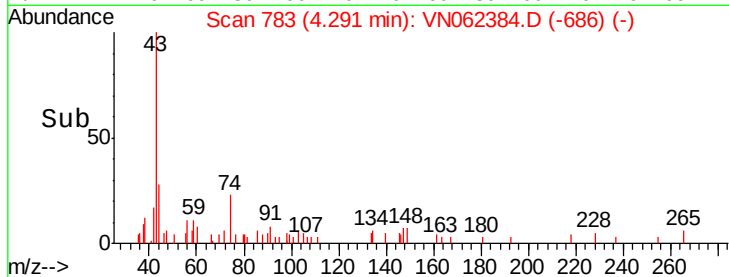
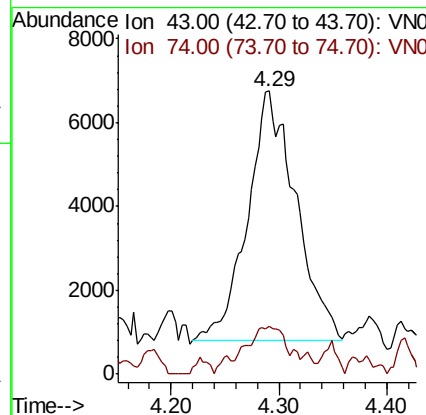
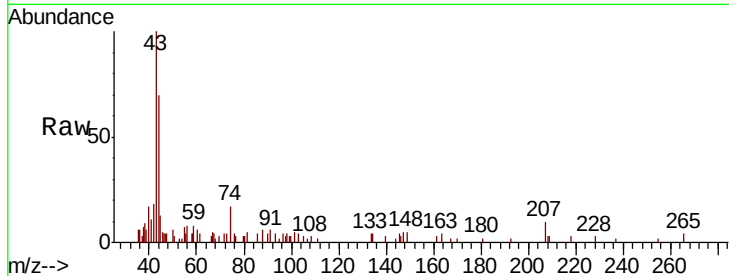




#18
Methvl Acetate
Concen: 0.689 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.01 min
Lab File: VN062384.D
Acq: 6 Jul 2020 23:58

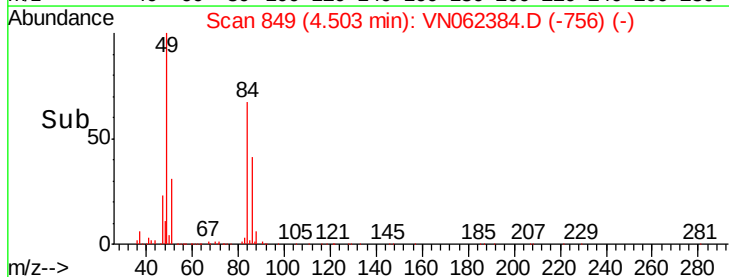
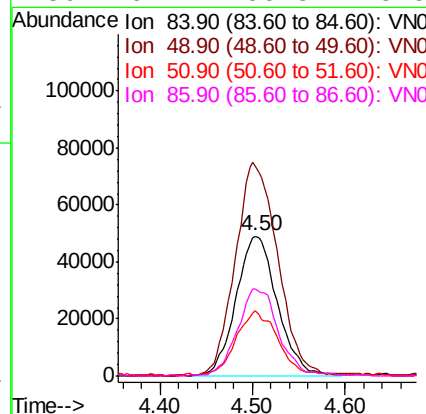
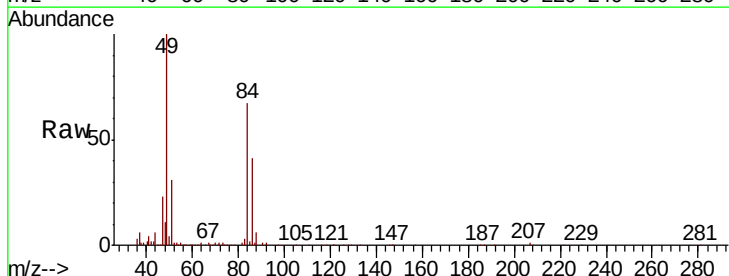
Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP-2

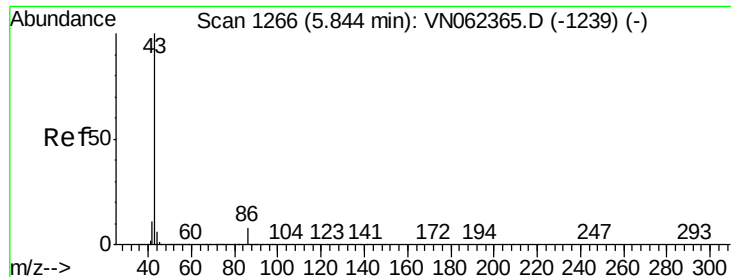
Tot Ion: 43 Resp: 18413
Ion Ratio Lower Upper
43 100
74 11.5 14.2 21.4#



#20
Methylene Chloride
Concen: 12.596 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062384.D
Acq: 6 Jul 2020 23:58

Tgt Ion: 84 Resp: 151875
Ion Ratio Lower Upper
84 100
49 148.6 121.8 182.6
51 45.1 35.0 52.4
86 61.2 50.3 75.5





#23

Vinyl Acetate

Concen: Below Cal

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

Instrument :

MSVOA_N

ClientSampled :

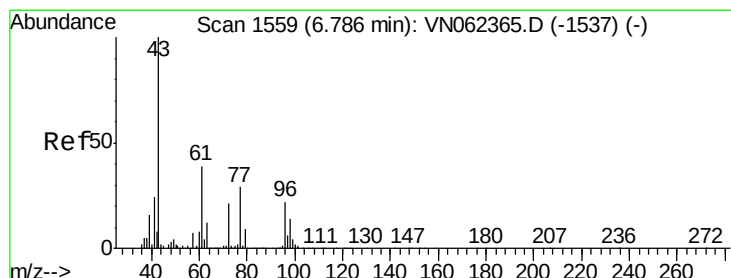
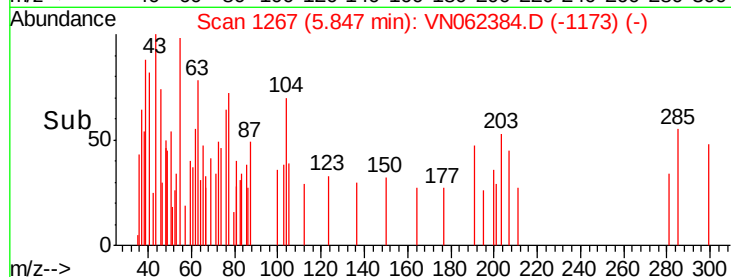
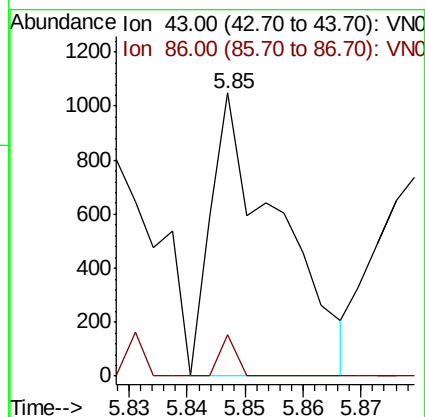
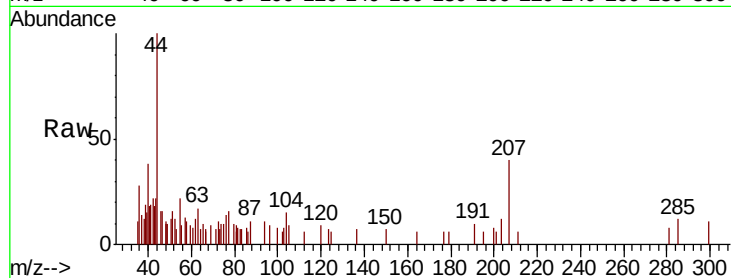
DRUM-COMP-2

Tot Ion: 43 Resp: 849

Ion Ratio Lower Upper

43 100

86 14.9 6.6 9.8#



#25

2-Butanone

Concen: 3.193 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.01 min

Lab File: VN062384.D

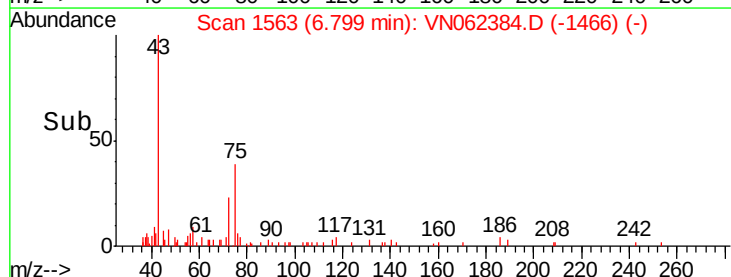
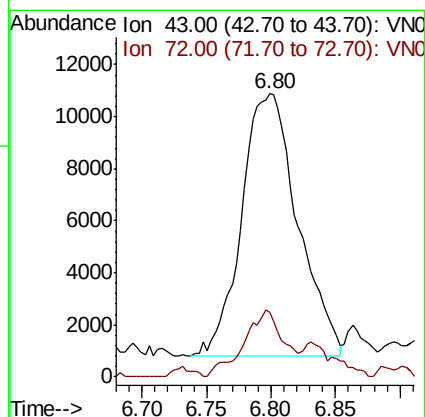
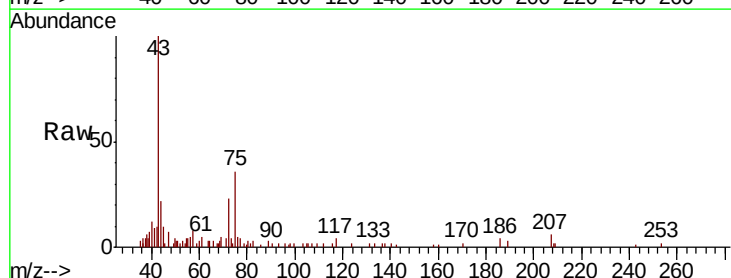
Acq: 6 Jul 2020 23:58

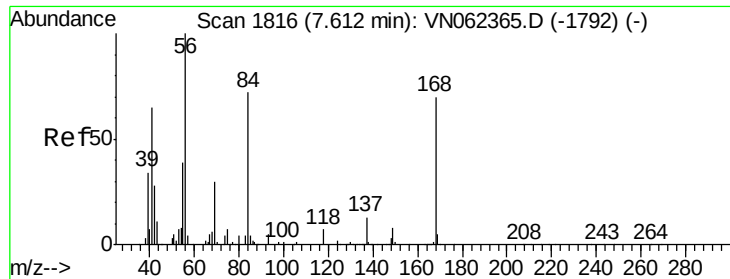
Tgt Ion: 43 Resp: 30467

Ion Ratio Lower Upper

43 100

72 22.7 16.4 24.6

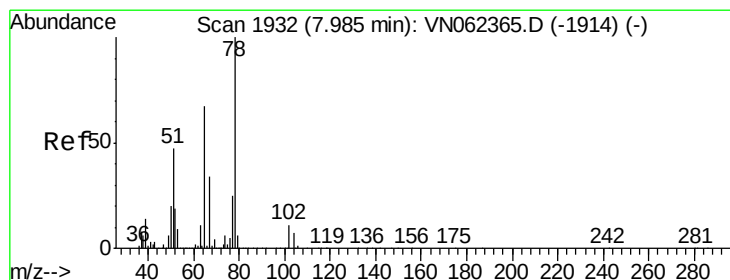
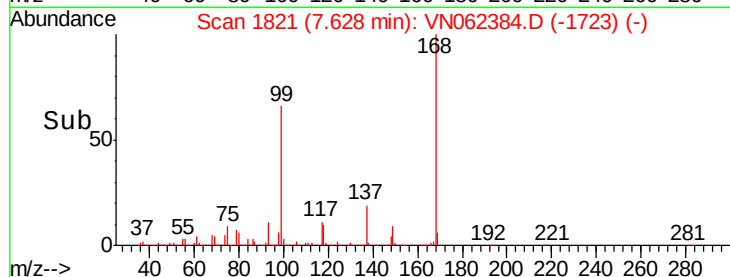
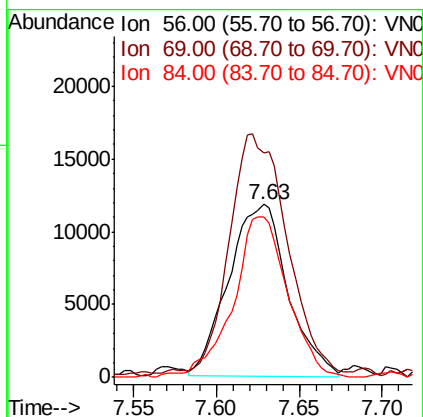
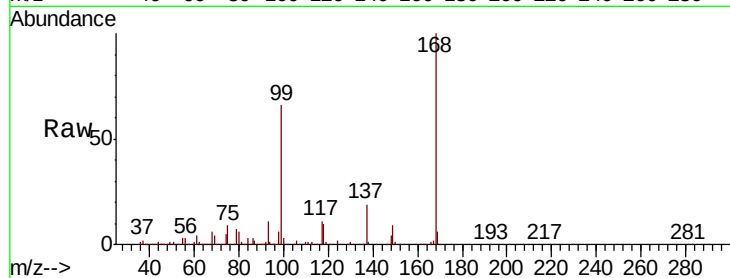




#31
Cyclohexane
Concen: 1.410 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN062384.D
Acq: 6 Jul 2020 23:58

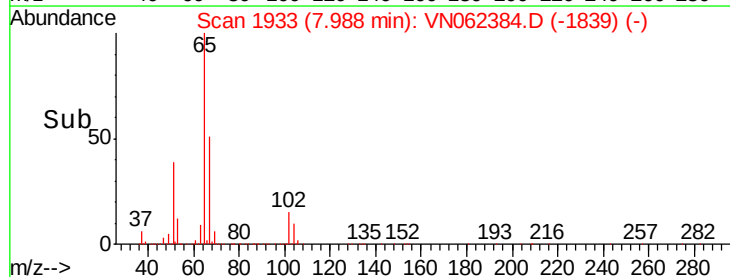
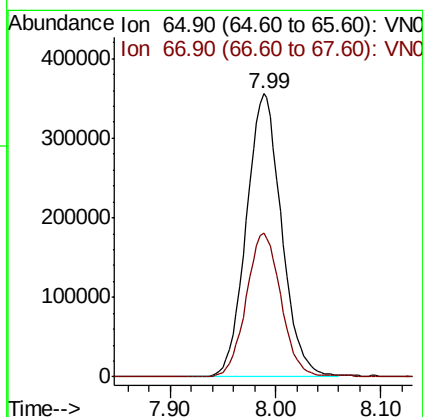
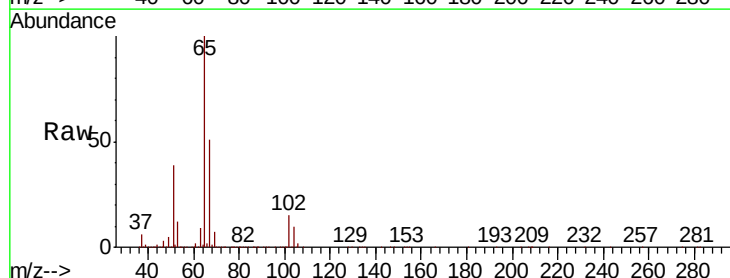
Instrument :
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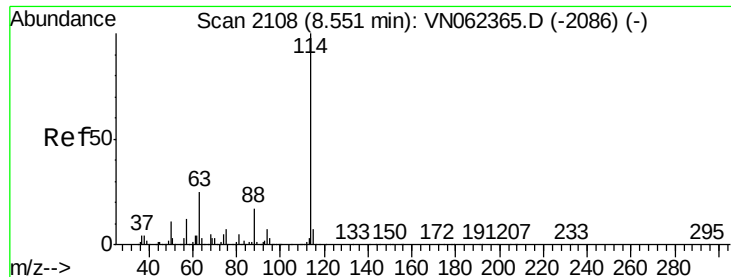
Tot Ion: 56 Resp: 29382
Ion Ratio Lower Upper
56 100
69 129.3 23.7 35.5#
84 93.7 57.2 85.8#



#33
1,2-Dichloroethane-d4
Concen: 50.238 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062384.D
Acq: 6 Jul 2020 23:58

Tgt Ion: 65 Resp: 825554
Ion Ratio Lower Upper
65 100
67 50.0 0.0 101.0

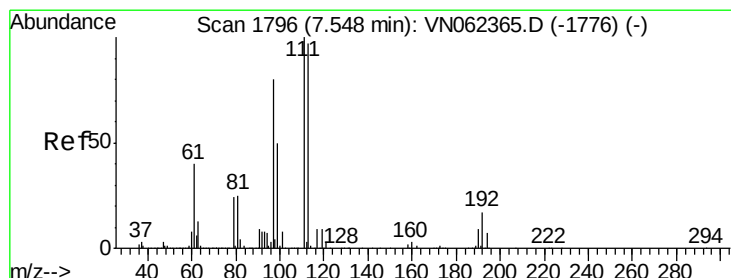
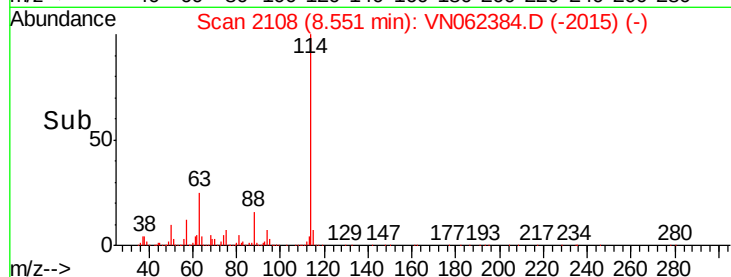
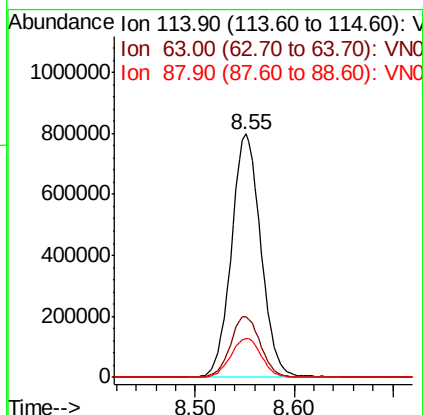
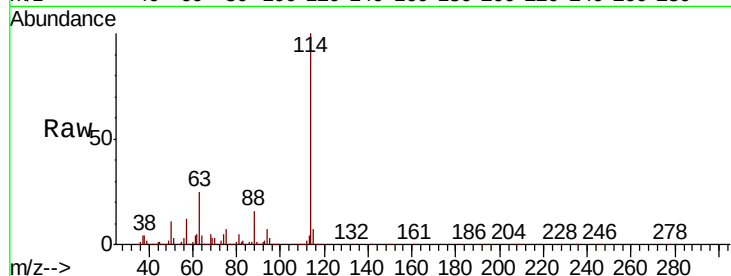




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN062384.D
Acq: 6 Jul 2020 23:58

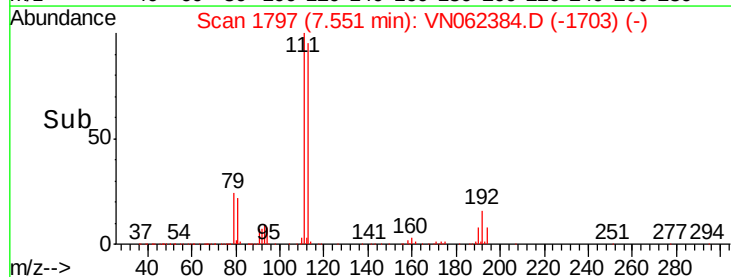
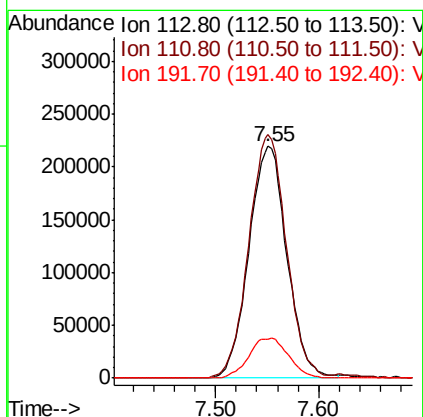
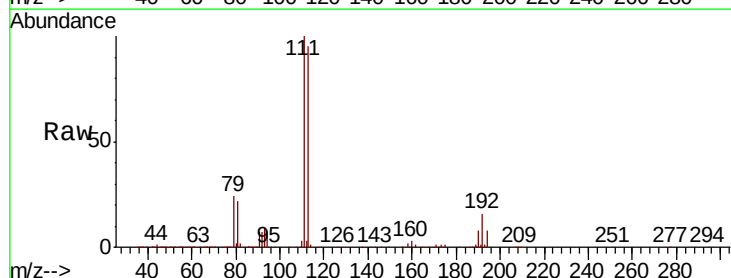
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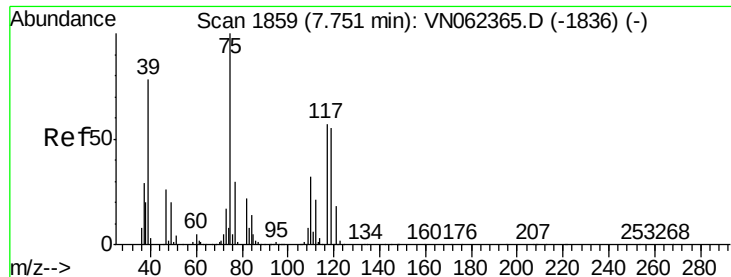
Tot Ion:114 Resp: 1658304
Ion Ratio Lower Upper
114 100
63 24.7 0.0 49.0
88 16.1 0.0 34.0



#35
Dibromofluoromethane
Concen: 49.584 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN062384.D
Acq: 6 Jul 2020 23:58

Tgt Ion:113 Resp: 560935
Ion Ratio Lower Upper
113 100
111 103.7 83.2 124.8
192 18.0 14.2 21.2





#36

1,1-Dichloropropene

Concen: 4.951 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP-2

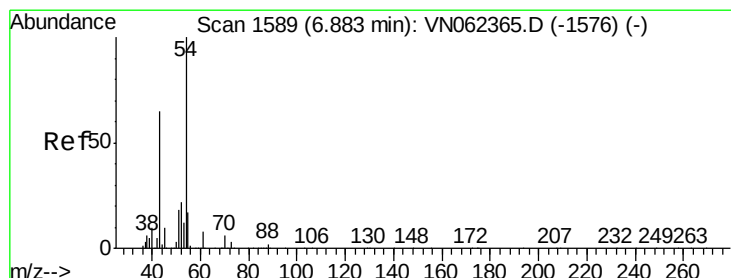
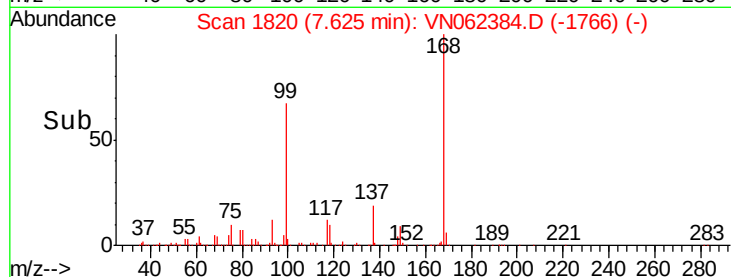
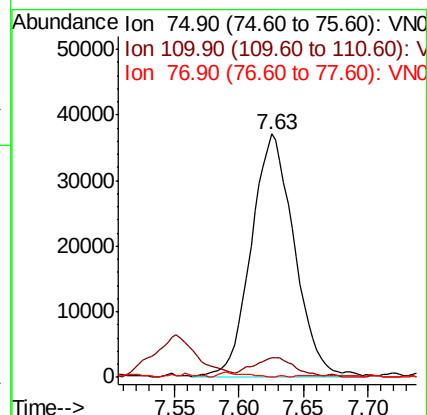
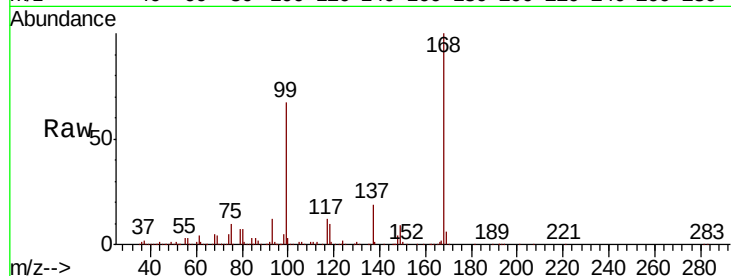
Tot Ion: 75 Resp: 86264

Ion Ratio Lower Upper

75 100

110 6.7 15.7 47.1#

77 0.1 24.3 36.5#



#37

Ethyl Acetate

Concen: 1.474 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.08 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

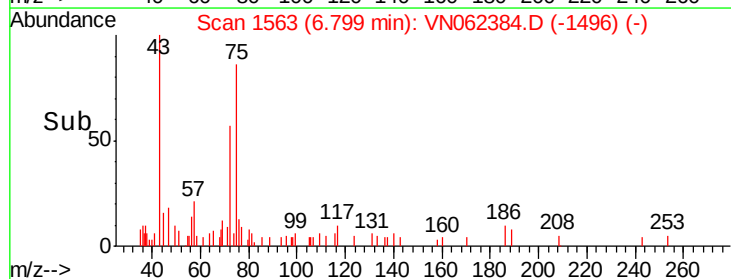
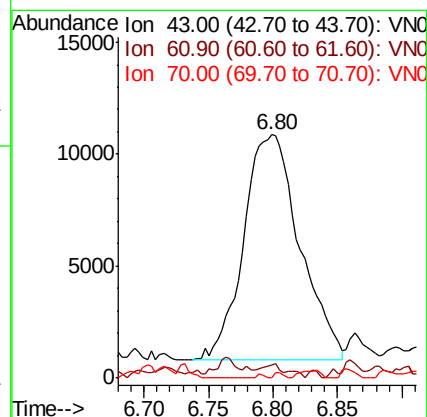
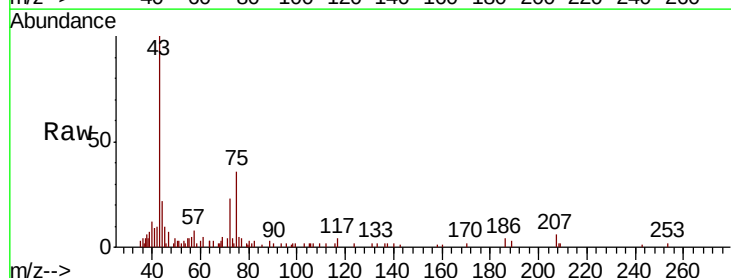
Tgt Ion: 43 Resp: 30467

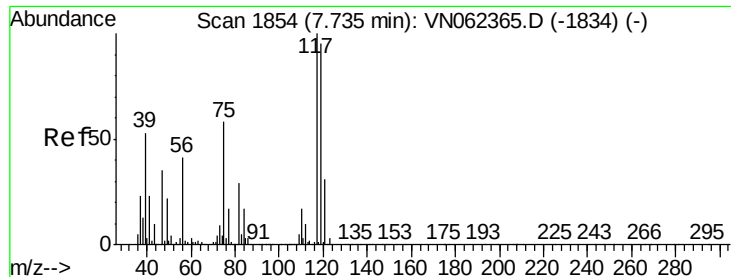
Ion Ratio Lower Upper

43 100

61 1.1 8.8 13.2#

70 0.4 6.2 9.4#





#38

Carbon Tetrachloride

Concen: 5.860 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP-2

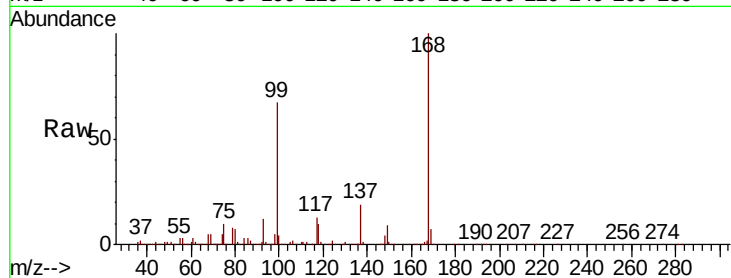
Tot Ion:117 Resp: 102681

Ion Ratio Lower Upper

117 100

119 6.2 75.9 113.9#

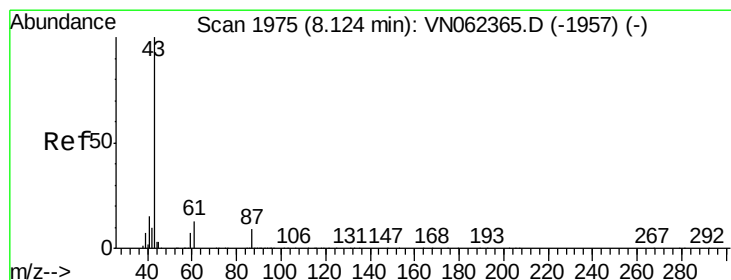
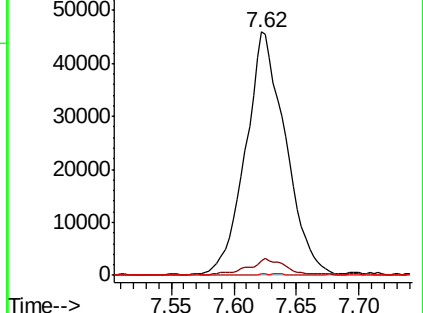
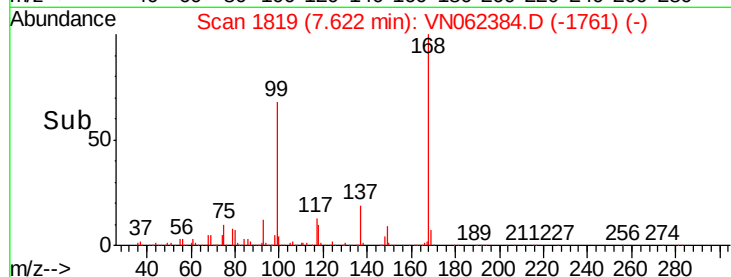
121 0.5 24.6 36.8#



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: 4.010 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

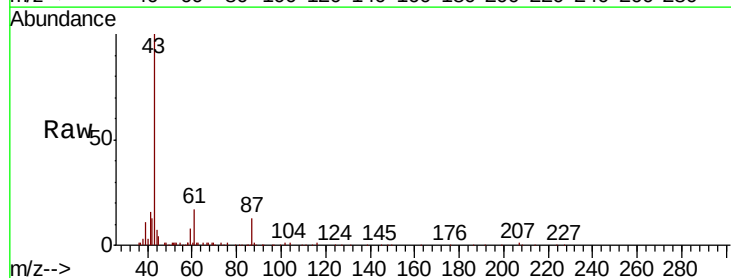
Tgt Ion: 43 Resp: 138546

Ion Ratio Lower Upper

43 100

61 14.4 13.1 19.7

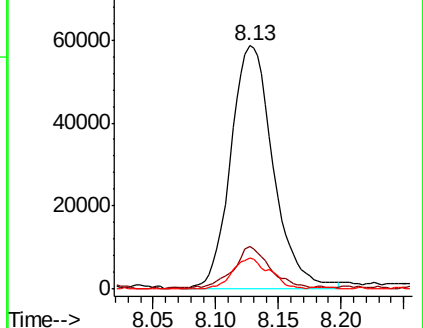
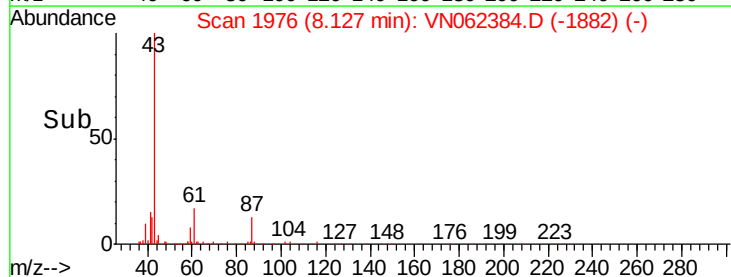
87 11.1 7.5 11.3

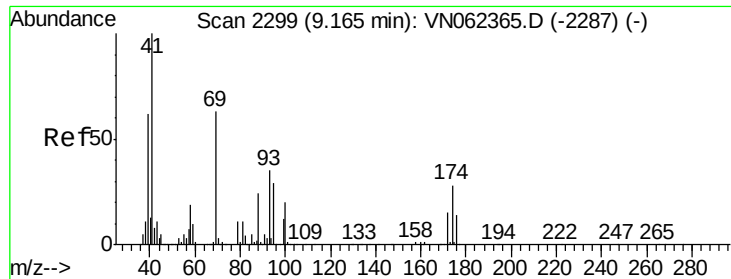


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

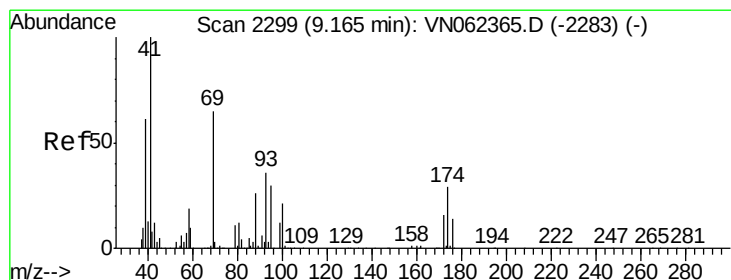
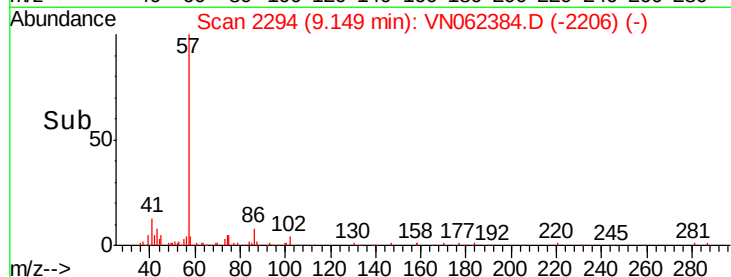
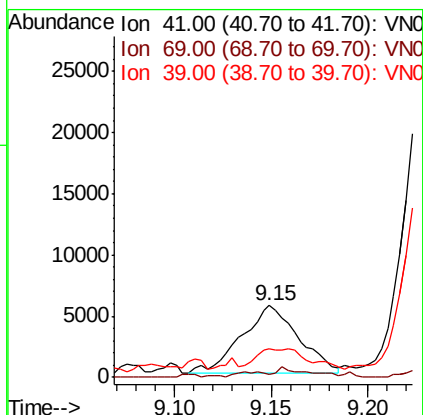
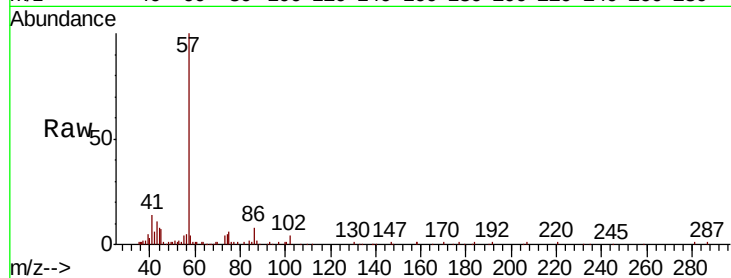




#48
Methvl methacrylate
Concen: 0.651 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN062384.D
Acq: 6 Jul 2020 23:58

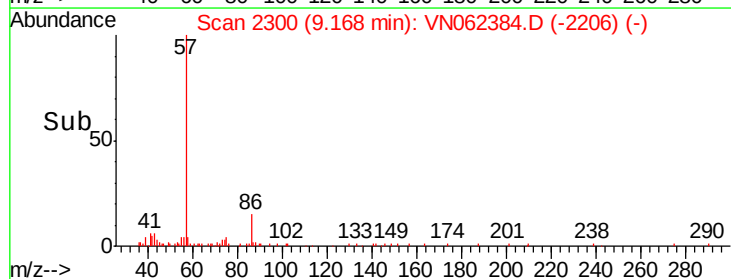
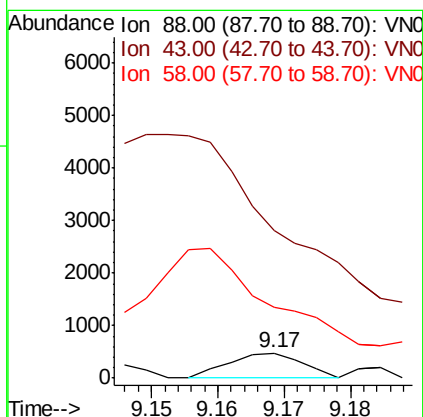
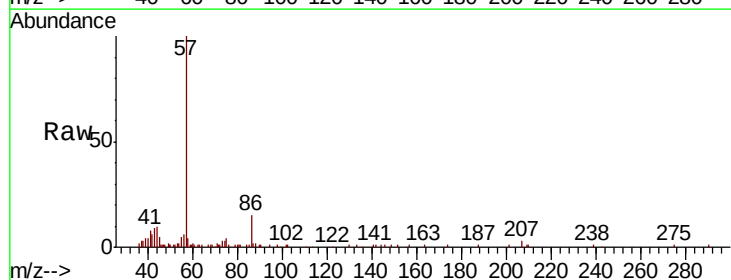
Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP-2

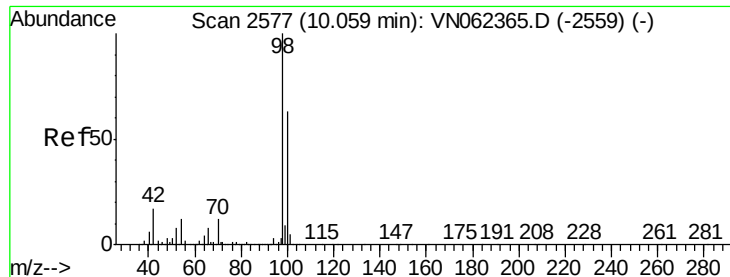
Tot Ion: 41 Resp: 11477
Ion Ratio Lower Upper
41 100
69 7.9 51.5 77.3#
39 25.1 51.2 76.8#



#49
1,4-Dioxane
Concen: 1.574 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. 0.00 min
Lab File: VN062384.D
Acq: 6 Jul 2020 23:58

Tgt Ion: 88 Resp: 377
Ion Ratio Lower Upper
88 100
43 0.0 34.0 51.0#
58 1357.0 63.0 94.4#





#50

Toluene-d8

Concen: 51.894 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

Instrument :

MSVOA_N

ClientSampled :

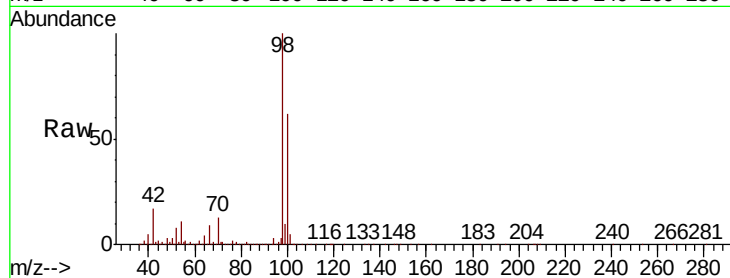
DRUM-COMP-2

Tot Ion: 98 Resp: 2194562

Ion Ratio Lower Upper

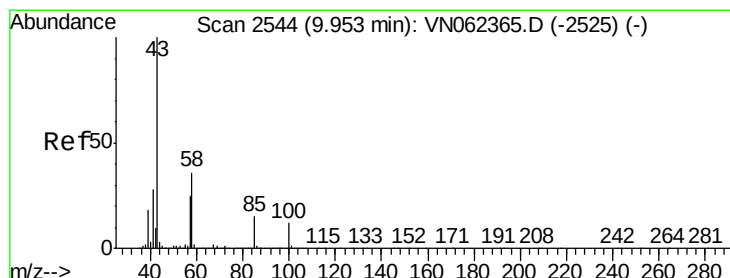
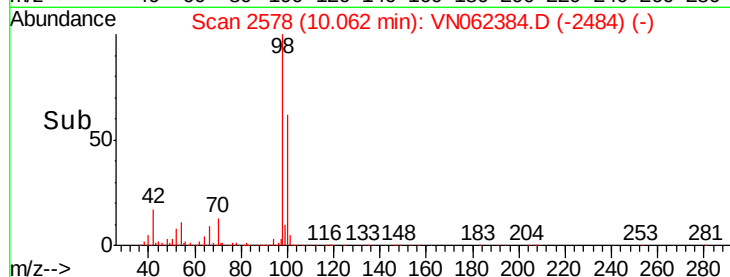
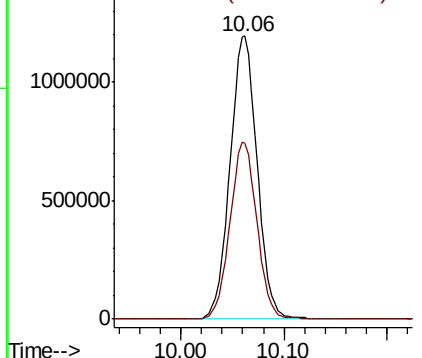
98 100

100 62.4 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.346 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN062384.D

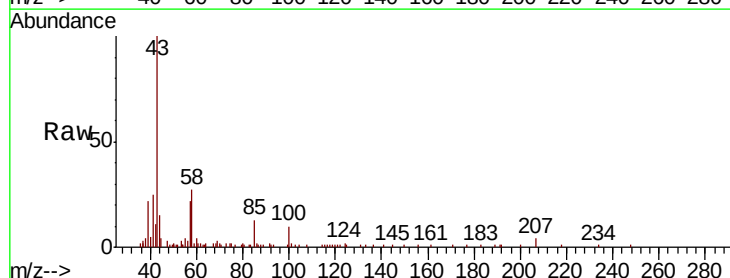
Acq: 6 Jul 2020 23:58

Tgt Ion: 43 Resp: 34358

Ion Ratio Lower Upper

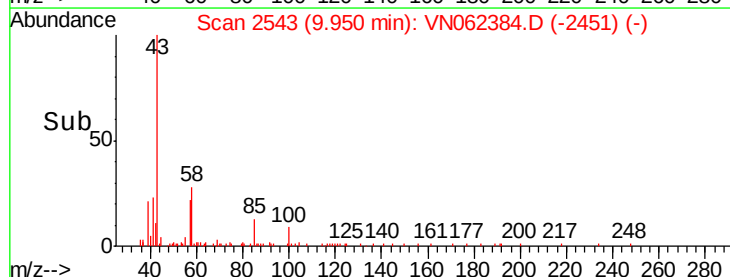
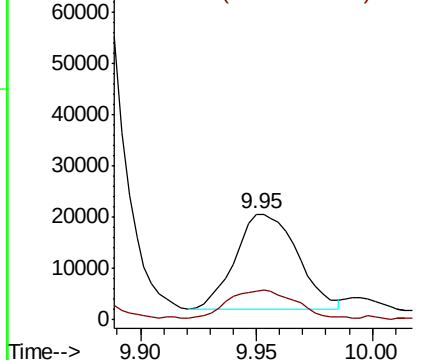
43 100

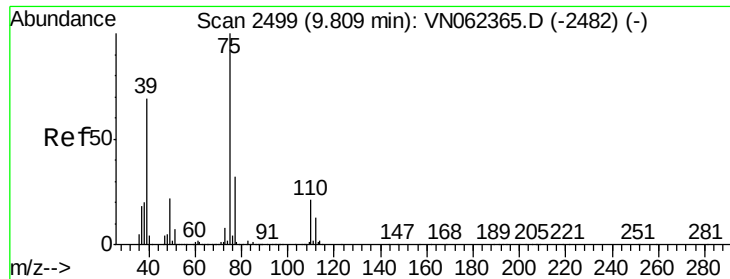
58 32.7 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 3.100 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP-2

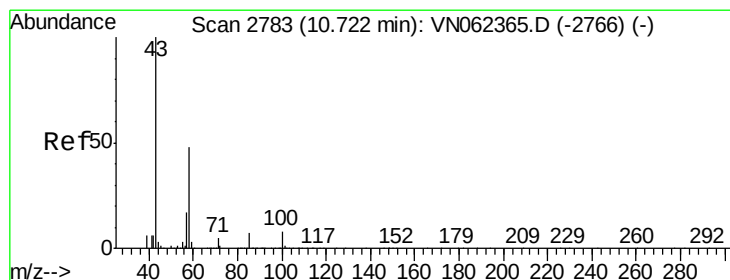
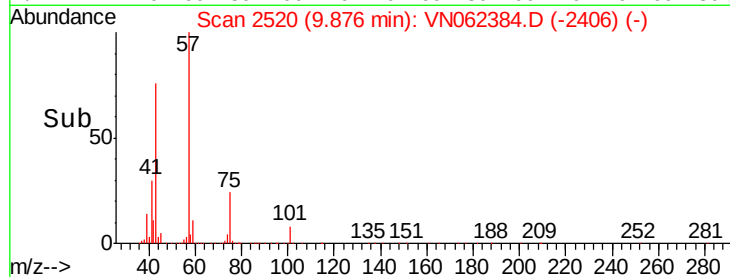
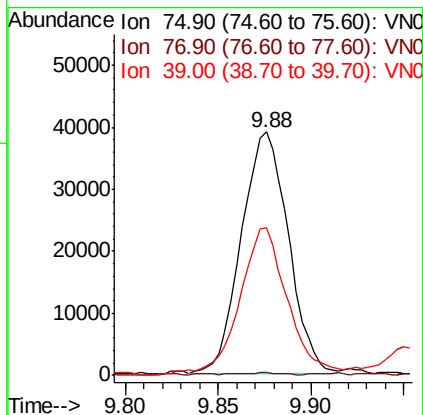
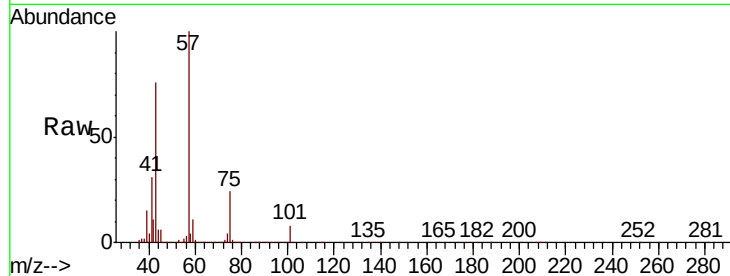
Tot Ion: 75 Resp: 68137

Ion Ratio Lower Upper

75 100

77 0.6 26.0 39.0#

39 58.9 55.3 82.9



#59

2-Hexanone

Concen: 5.902 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062384.D

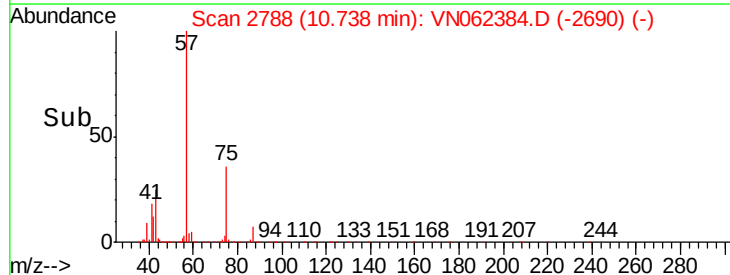
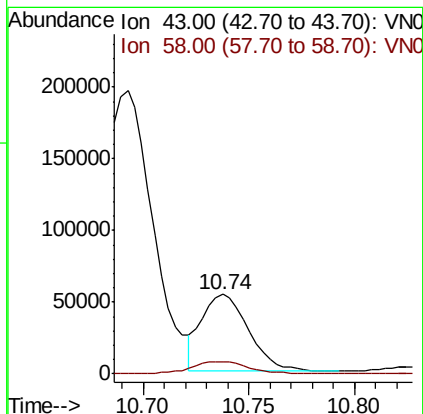
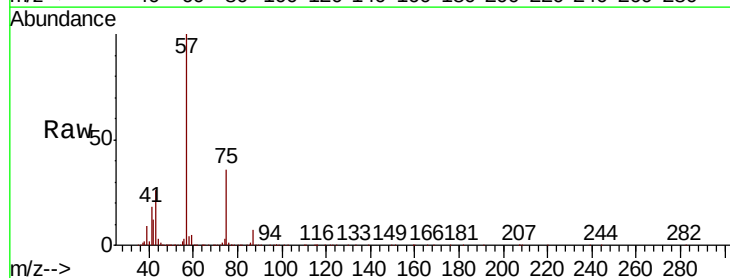
Acq: 6 Jul 2020 23:58

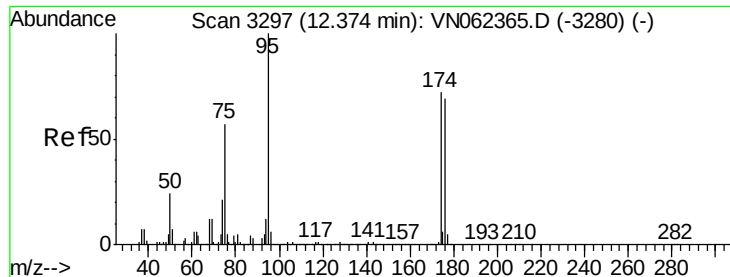
Tgt Ion: 43 Resp: 82656

Ion Ratio Lower Upper

43 100

58 20.2 23.5 70.6#





#62

4-Bromofluorobenzene

Concen: 47.803 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP-2

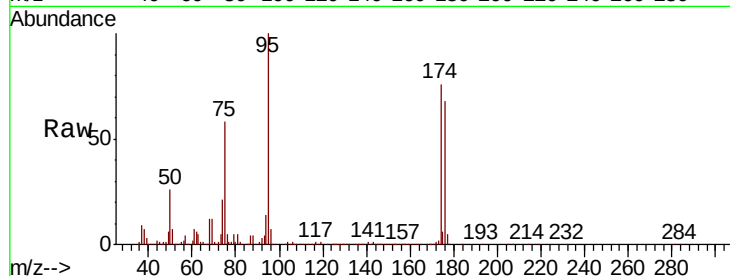
Tot Ion: 95 Resp: 774243

Ion Ratio Lower Upper

95 100

174 73.6 0.0 145.8

176 69.0 0.0 140.2



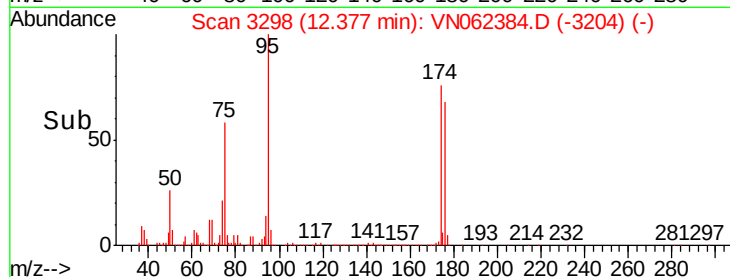
Abundance Ion 94.90 (94.60 to 95.60): VN062365.D (-3280) (-)

Ion 173.80 (173.50 to 174.50): VN062365.D (-3280) (-)

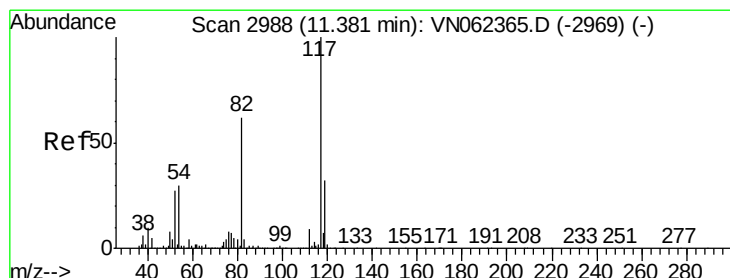
Ion 175.80 (175.50 to 176.50): VN062365.D (-3280) (-)

12.38

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

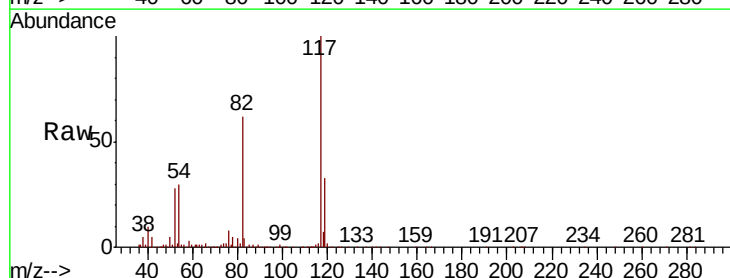
Tgt Ion: 117 Resp: 1658181

Ion Ratio Lower Upper

117 100

82 62.1 49.4 74.2

119 33.0 25.6 38.4



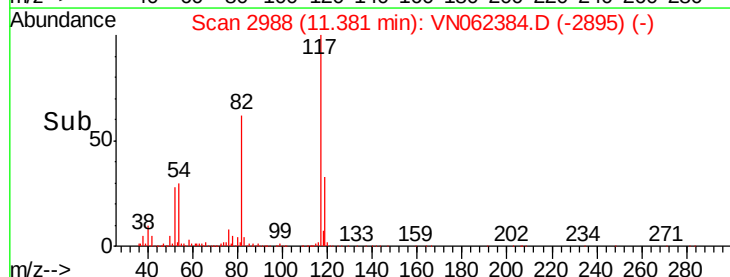
Abundance Ion 116.90 (116.60 to 117.60): VN062365.D (-2969) (-)

Ion 82.00 (81.70 to 82.70): VN062365.D (-2969) (-)

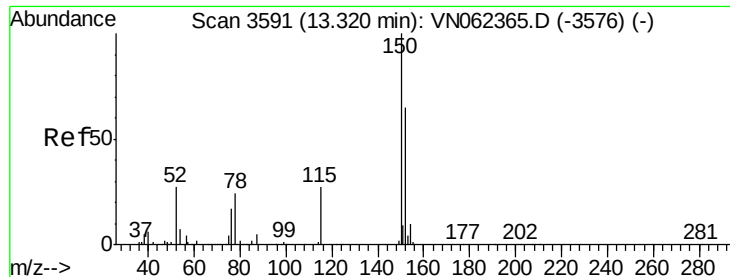
Ion 118.90 (118.60 to 119.60): VN062365.D (-2969) (-)

11.38

Time-->



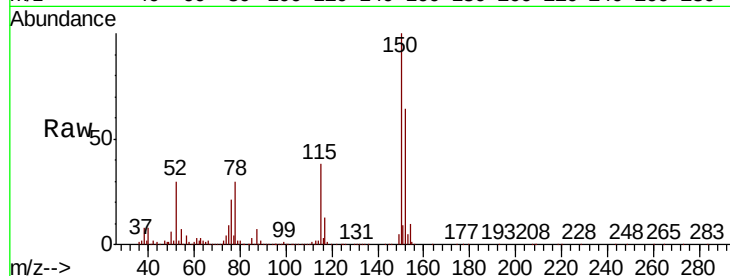
Time-->



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3591
 Delta R.T. -0.00 min
 Lab File: VN062384.D
 Acq: 6 Jul 2020 23:58

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-COMP-2

Tot Ion	Ratio	Lower	Upper
152	100		
115	62.2	30.5	91.5
150	157.4	0.0	346.8

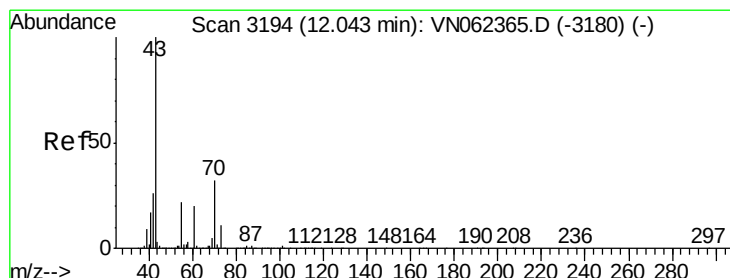
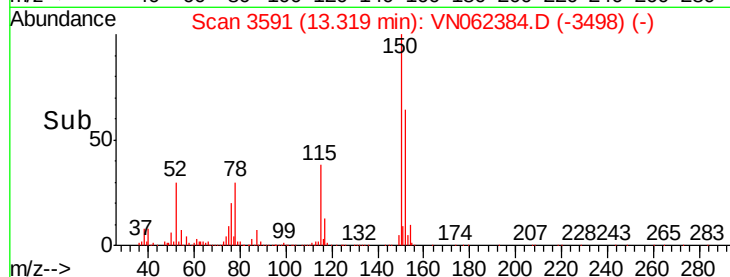
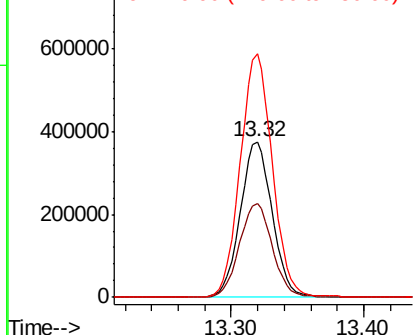


Abundance

Ion 151.90 (151.60 to 152.60): V

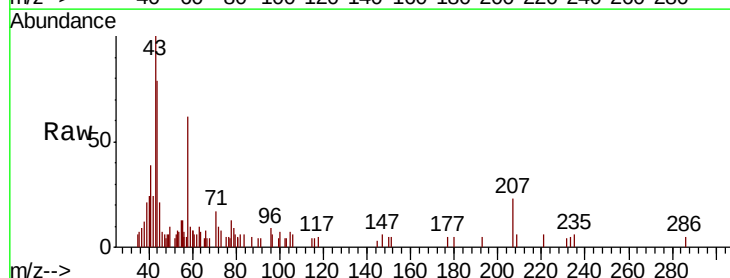
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74
 N-ethyl acetate
 Concen: 0.259 ug/l
 RT: 12.01 min Scan# 3183
 Delta R.T. -0.04 min
 Lab File: VN062384.D
 Acq: 6 Jul 2020 23:58

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	25.9	38.9#
55	15.4	17.4	26.0#
61	1.6	15.6	23.4#



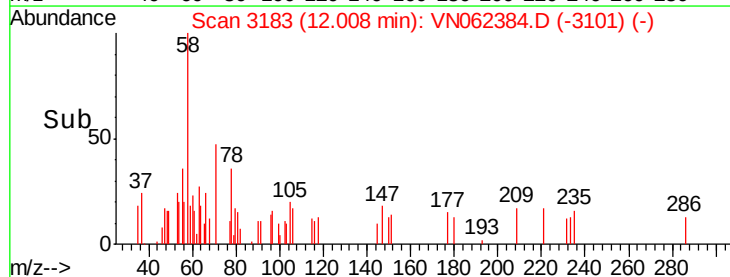
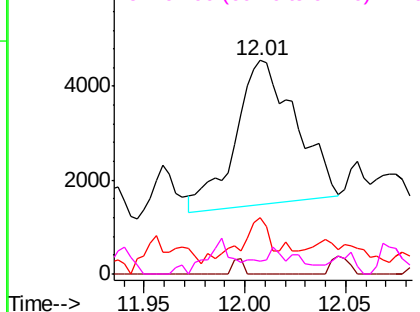
Abundance

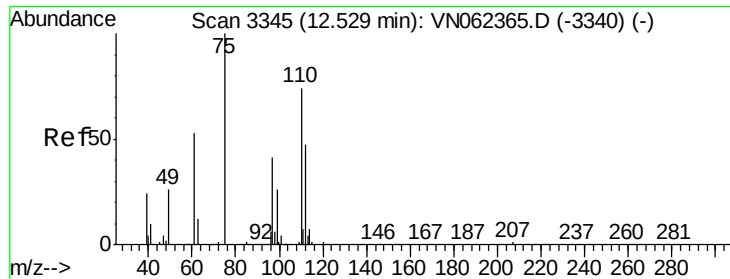
Ion 43.00 (42.70 to 43.70): V

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: 29.699 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

Instrument :

MSVOA_N

ClientSampleId :

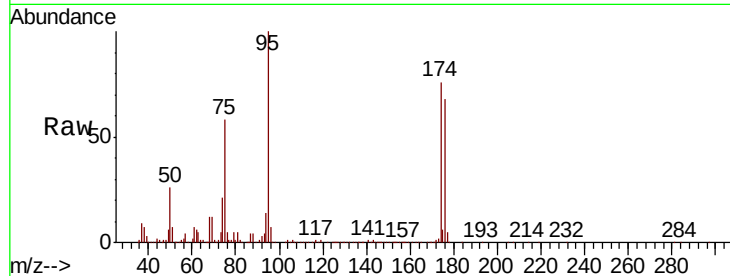
DRUM-COMP-2

Tot Ion: 75 Resp: 450662

Ion Ratio Lower Upper

75 100

77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.38

250000

200000

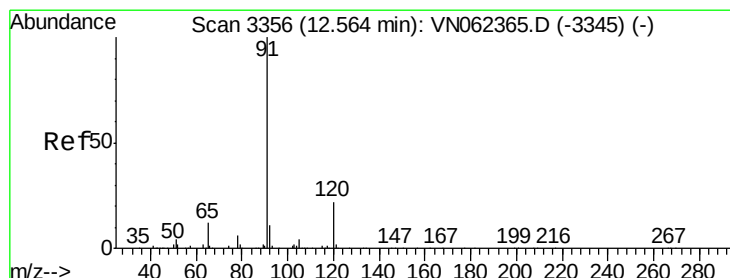
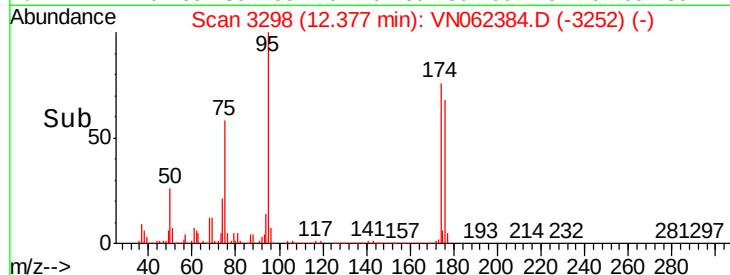
150000

100000

50000

0

Time-->



#78

n-propylbenzene

Concen: 0.287 ug/l

RT: 12.61 min Scan# 3369

Delta R.T. 0.04 min

Lab File: VN062384.D

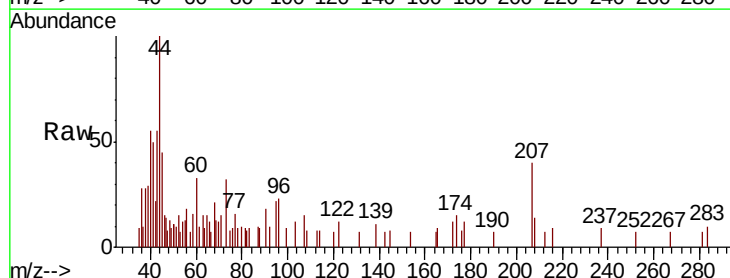
Acq: 6 Jul 2020 23:58

Tgt Ion: 91 Resp: 261

Ion Ratio Lower Upper

91 100

120 26.8 10.9 32.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

12.61

400

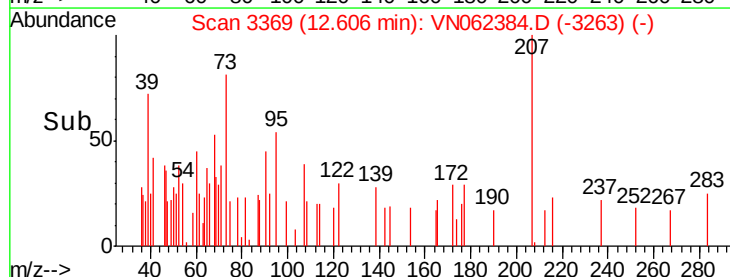
300

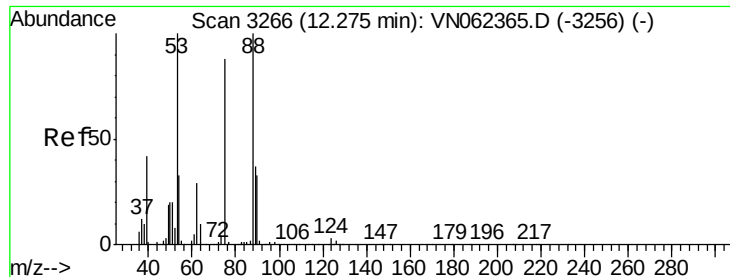
200

100

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 84.931 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP-2

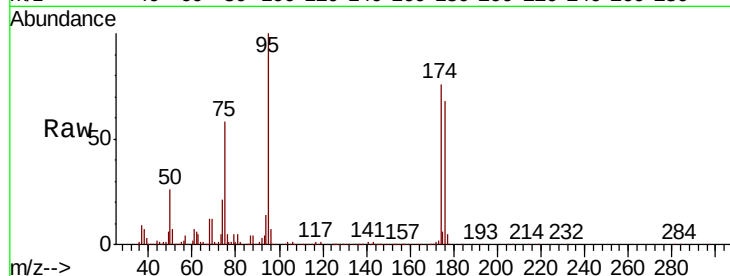
Tot Ion: 75 Resp: 450662

Ion Ratio Lower Upper

75 100

53 0.1 92.3 138.5#

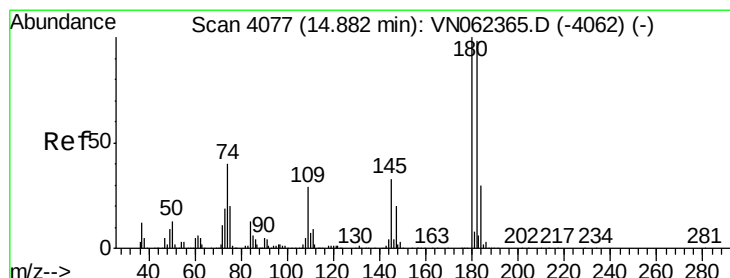
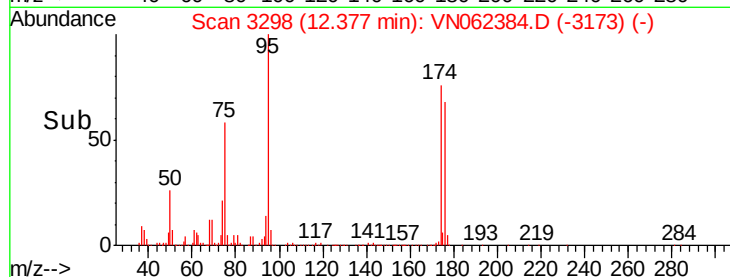
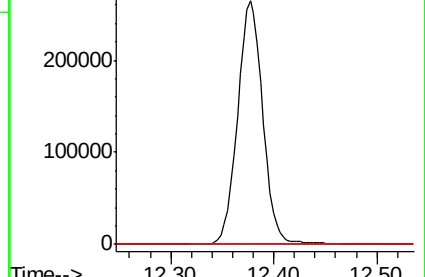
89 0.1 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VN062365.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN062365.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN062365.D (-3256) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.763 ug/l

RT: 14.90 min Scan# 4082

Delta R.T. 0.02 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

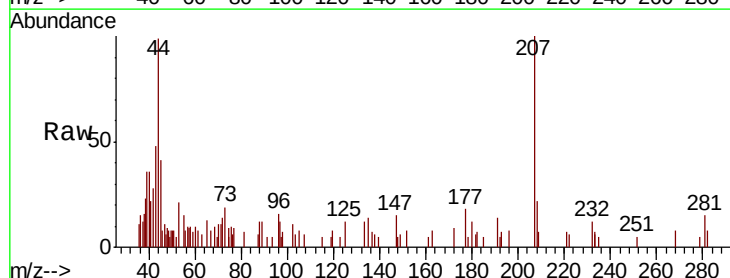
Tgt Ion: 180 Resp: 342

Ion Ratio Lower Upper

180 100

182 117.3 47.6 142.8

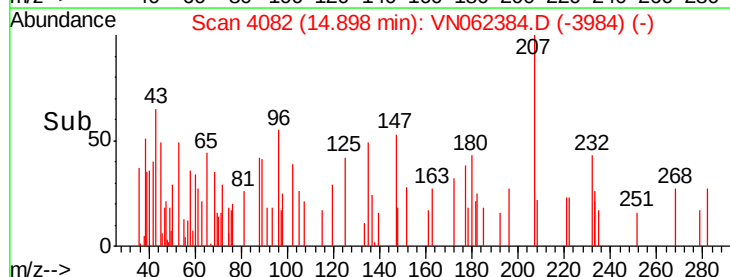
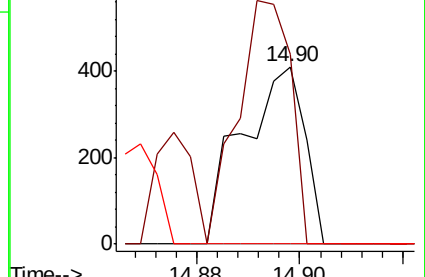
145 0.0 15.9 47.7#

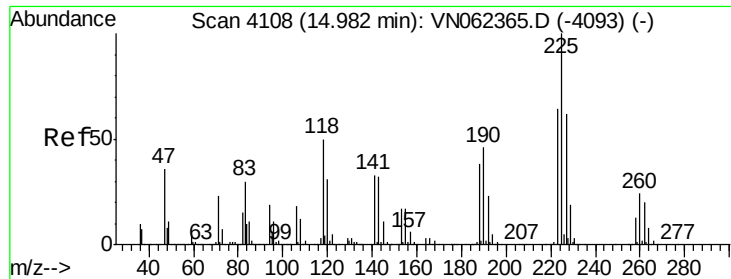


Abundance Ion 179.80 (179.50 to 180.50): VN062365.D (-4062) (-)

Ion 181.80 (181.50 to 182.50): VN062365.D (-4062) (-)

Ion 144.80 (144.50 to 145.50): VN062365.D (-4062) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4114

Delta R.T. 0.02 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

Instrument :

MSVOA_N

ClientSampled :

DRUM-COMP-2

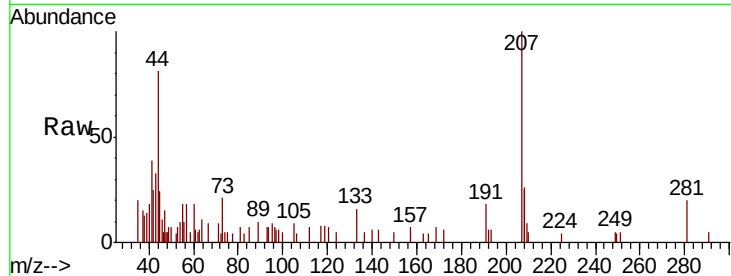
Tot Ion:225 Resp: 63

Ion Ratio Lower Upper

225 100

223 0.0 31.7 95.1#

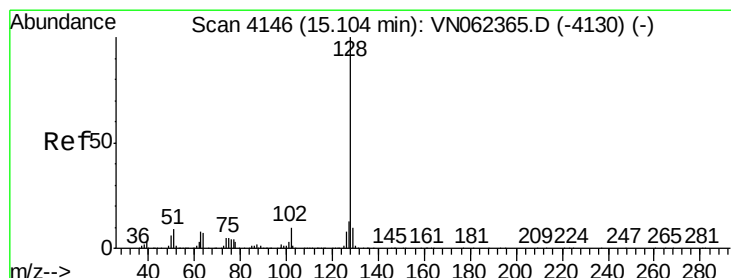
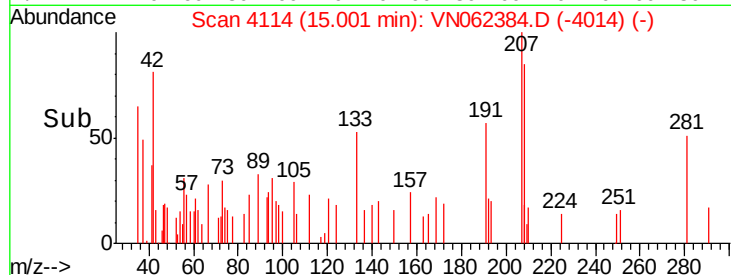
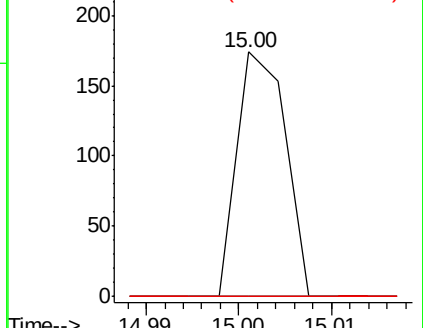
227 0.0 30.3 90.8#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.107 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062384.D

Acq: 6 Jul 2020 23:58

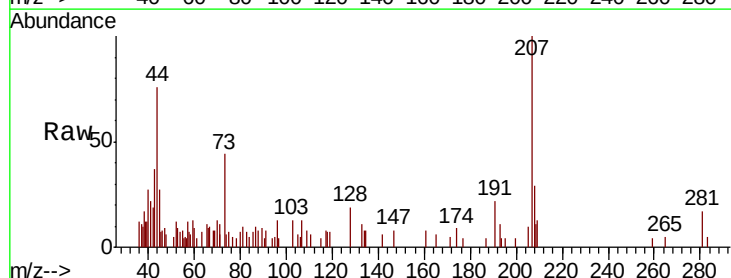
Tgt Ion:128 Resp: 1127

Ion Ratio Lower Upper

128 100

127 0.0 10.8 16.2#

129 12.3 8.6 12.8



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

