

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062620\
 Data File : VN062163.D
 Acq On : 27 Jun 2020 1:28
 Operator : JC/MD
 Sample : L3113-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-COMP

Quant Time: Jun 27 03:50:16 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	211451	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	410035	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	399293	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	149166	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	151407	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	
35) Dibromofluoromethane	7.55	113	125605	47.75	ug/l	0.00
Spiked Amount			Recovery	=	95.50%	
50) Toluene-d8	10.06	98	516794	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
62) 4-Bromofluorobenzene	12.38	95	171840	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	

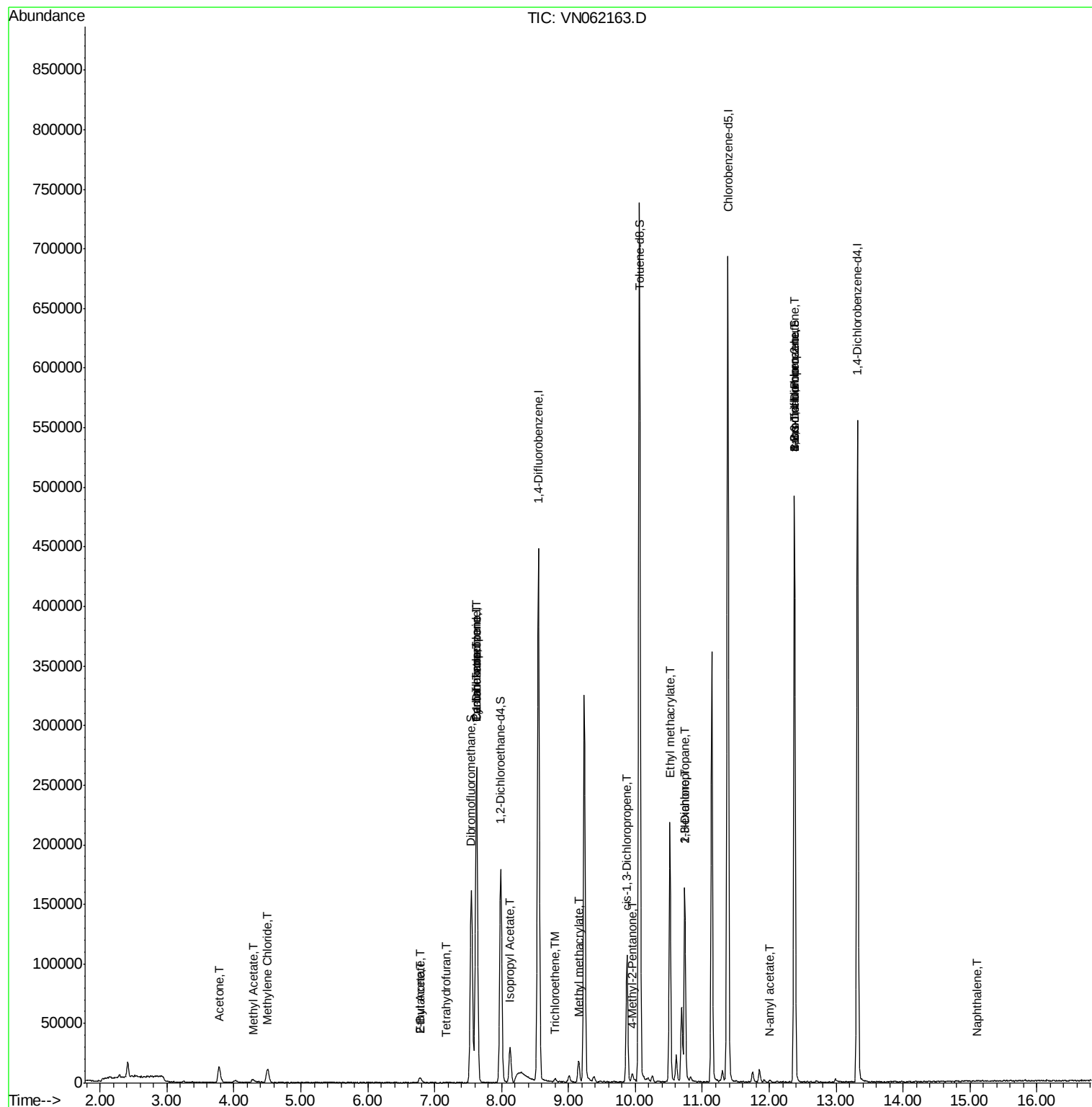
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	189	Below Cal	#	41
16) Acetone	3.78	43	23130	21.124	ug/l	95
18) Methyl Acetate	4.29	43	4532	1.921	ug/l #	79
20) Methylene Chloride	4.50	84	9107	3.140	ug/l	96
25) 2-Butanone	6.79	43	3126	2.155	ug/l #	80
29) Tetrahydrofuran	7.17	42	376	0.396	ug/l #	39
31) Cyclohexane	7.63	56	4943	1.206	ug/l #	7
36) 1,1-Dichloropropene	7.62	75	16838	4.085	ug/l #	48
37) Ethyl Acetate	6.79	43	3126	0.916	ug/l #	73
38) Carbon Tetrachloride	7.63	117	22209	5.716	ug/l #	15
43) Isopropyl Acetate	8.13	43	33731	6.063	ug/l	99
44) Trichloroethene	8.80	130	1246	0.393	ug/l	88
48) Methyl methacrylate	9.14	41	2084	0.835	ug/l #	19
51) 4-Methyl-2-Pentanone	9.95	43	4589	1.412	ug/l	97
54) cis-1,3-Dichloropropene	9.88	75	21323	4.291	ug/l #	61
56) Ethyl methacrylate	10.52	69	873	0.217	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	1938	0.374	ug/l #	42
59) 2-Hexanone	10.74	43	21983	9.366	ug/l #	53
71) Bromoform	12.38	173	1448	0.672	ug/l #	1
74) N-amyl acetate	12.00	43	1546	3.683	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	87914	25.036	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	87914	73.115	ug/l #	13
95) Naphthalene	15.11	128	378	4.044	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
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062163.D

Acq: 27 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

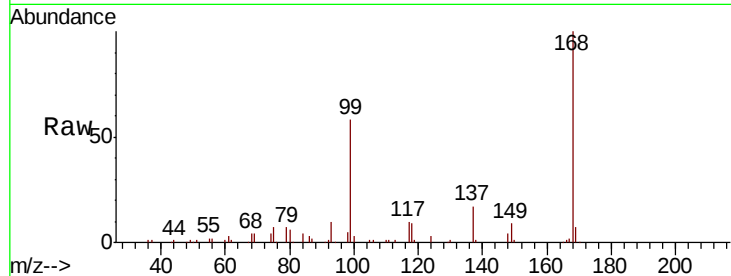
DRUM-COMP

Tot Ion:168 Resp: 211451

Ion Ratio Lower Upper

168 100

99 58.5 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): VN062163.D

Ion 98.90 (98.60 to 99.60): VN062163.D

7.63

100000

80000

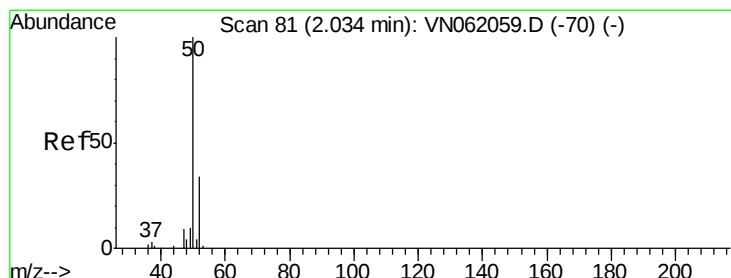
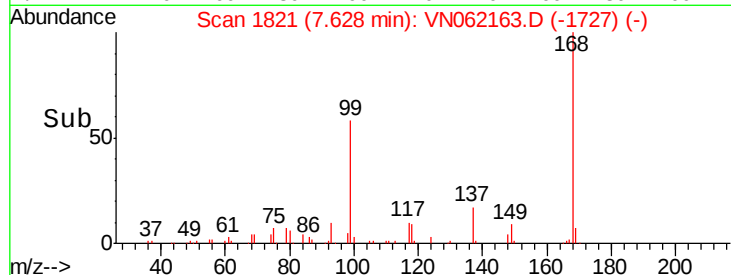
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN062163.D

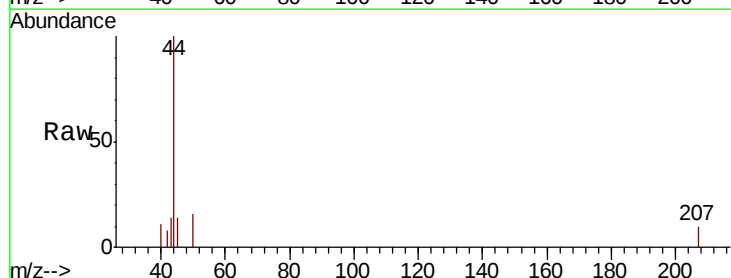
Acq: 27 Jun 2020 1:28

Tgt Ion: 50 Resp: 189

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN062163.D

Ion 51.90 (51.60 to 52.60): VN062163.D

2.03

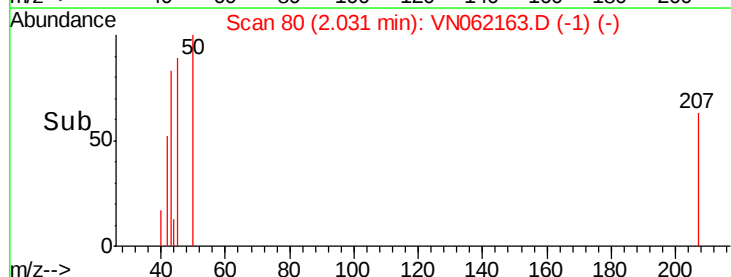
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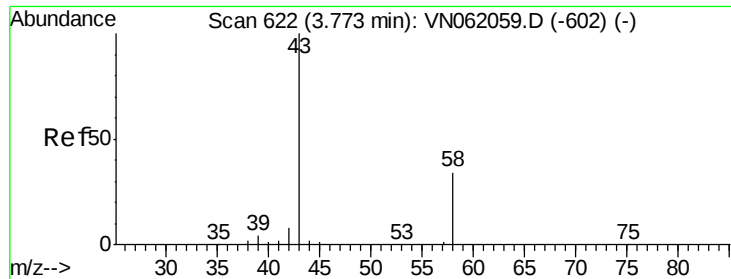
200

100

0

Time--> 2.01 2.02 2.03 2.04

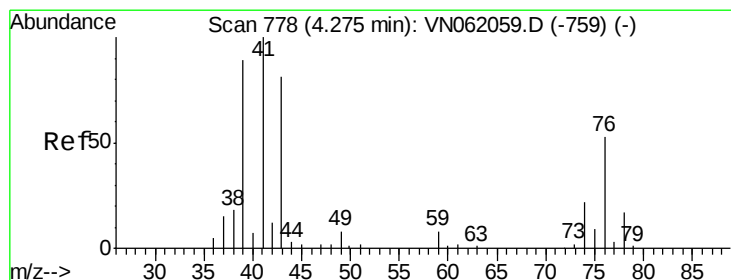
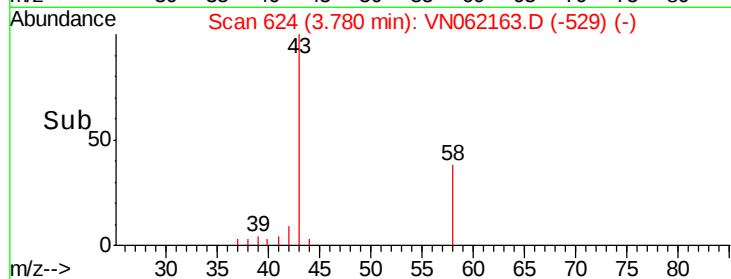
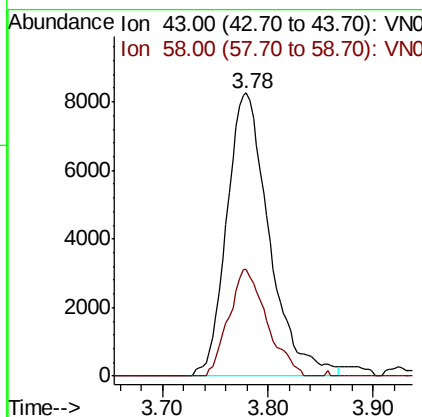
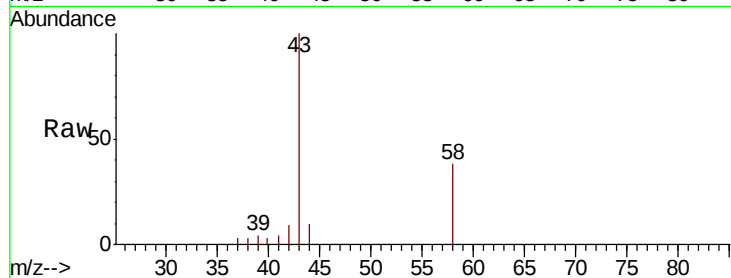




#16
 Acetone
 Concen: 21.124 ug/l
 RT: 3.78 min Scan# 624
 Delta R.T. 0.01 min
 Lab File: VN062163.D
 Acq: 27 Jun 2020 1:28

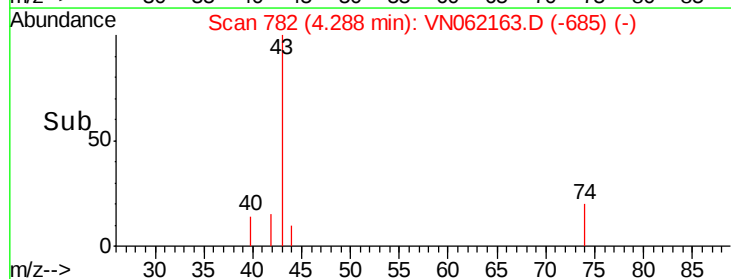
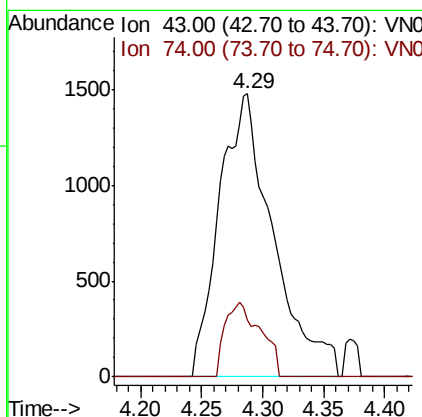
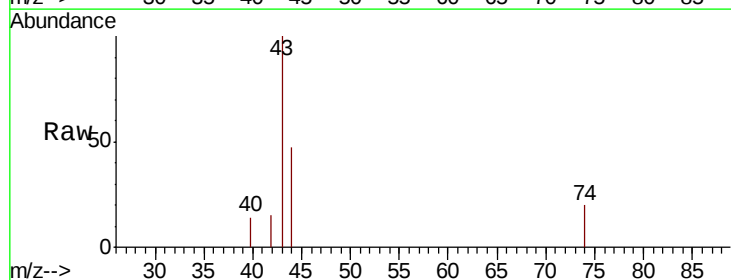
Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-COMP

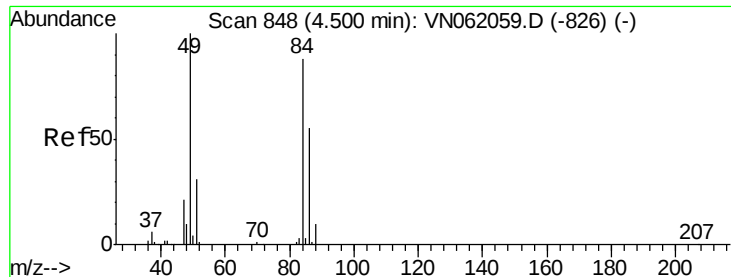
Tot Ion: 43 Resp: 23130
 Ion Ratio Lower Upper
 43 100
 58 37.6 27.5 41.3



#18
 Methyl Acetate
 Concen: 1.921 ug/l
 RT: 4.29 min Scan# 782
 Delta R.T. 0.01 min
 Lab File: VN062163.D
 Acq: 27 Jun 2020 1:28

Tgt Ion: 43 Resp: 4532
 Ion Ratio Lower Upper
 43 100
 74 17.3 22.9 34.3#

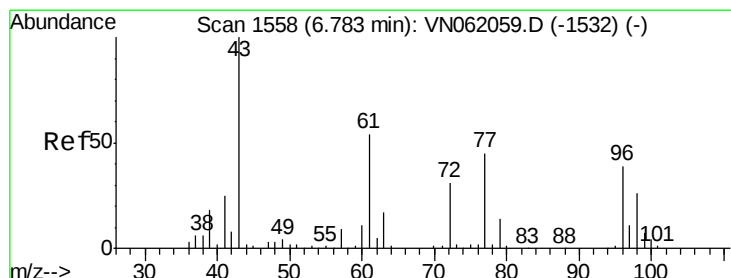
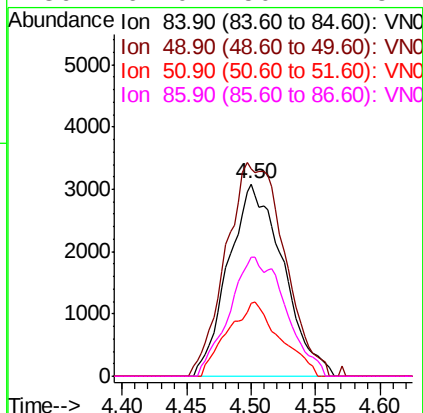
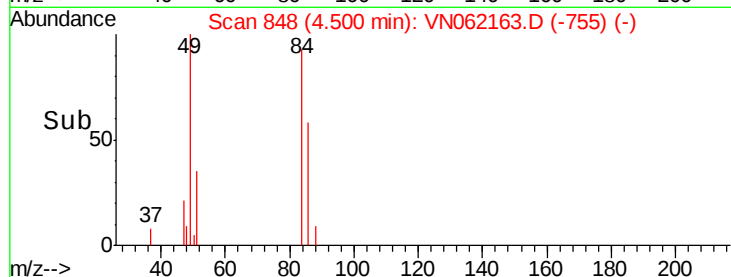
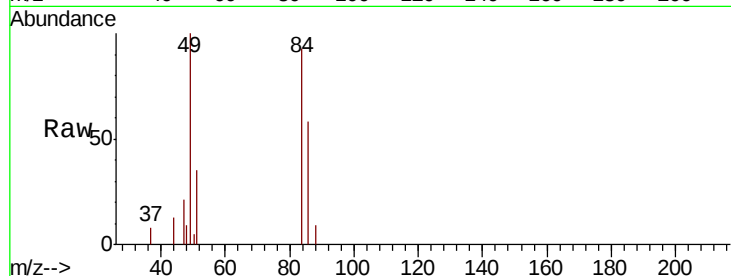




#20
Methvlene Chloride
Concen: 3.140 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN062163.D
Acq: 27 Jun 2020 1:28

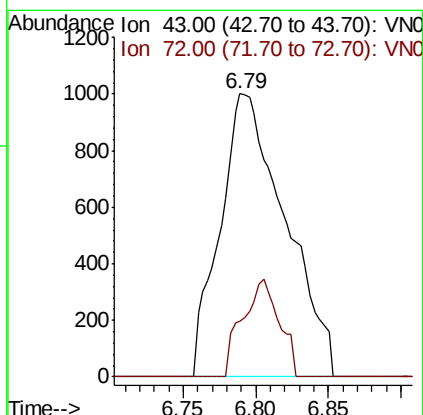
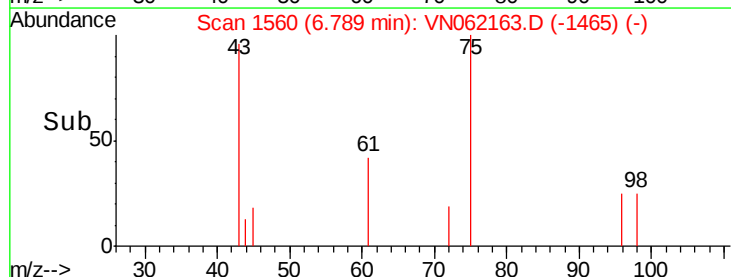
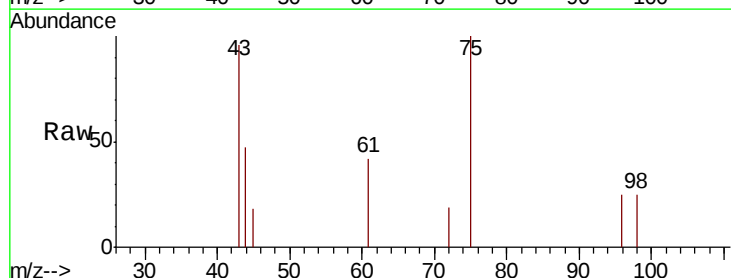
Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP

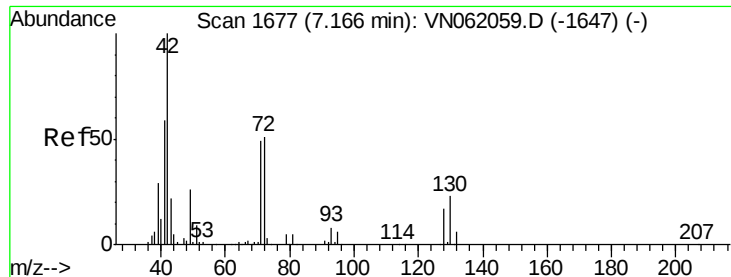
Tot Ion:	84	Resp:	9107
Ion	Ratio	Lower	Upper
84	100		
49	107.7	90.6	136.0
51	37.8	27.8	41.8
86	62.0	50.1	75.1



#25
2-Butanone
Concen: 2.155 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN062163.D
Acq: 27 Jun 2020 1:28

Tgt Ion:	43	Resp:	3126
Ion	Ratio	Lower	Upper
43	100		
72	19.8	24.8	37.2#





#29

Tetrahydrofuran

Concen: 0.396 ug/l

RT: 7.17 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN062163.D

Acq: 27 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

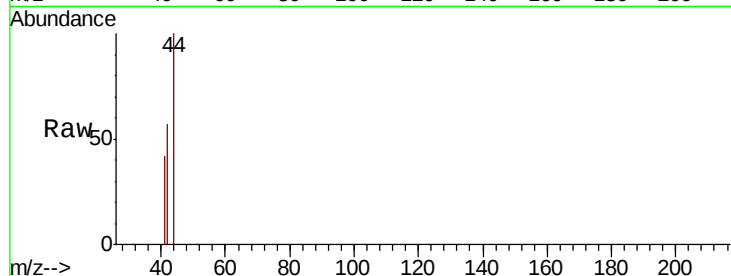
Tot Ion: 42 Resp: 376

Ion Ratio Lower Upper

42 100

72 0.0 41.1 61.7#

71 16.0 38.2 57.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

7.17

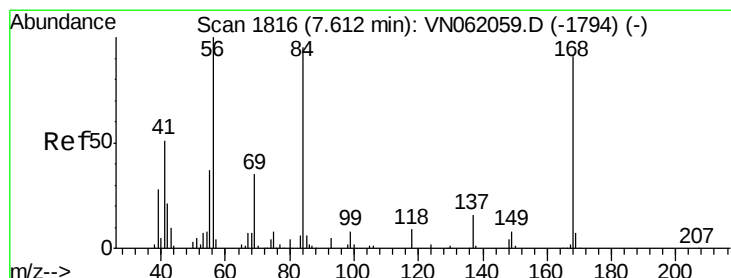
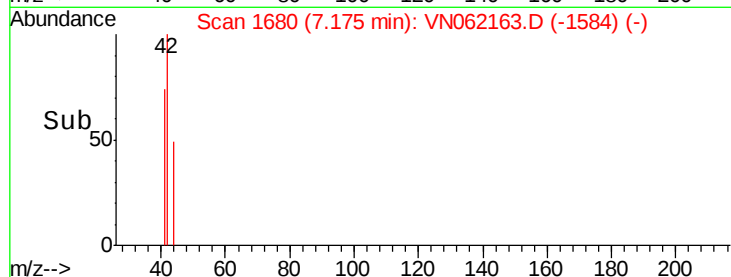
200

100

0

7.14 7.16 7.18

Time-->



#31

Cyclohexane

Concen: 1.206 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

Lab File: VN062163.D

Acq: 27 Jun 2020 1:28

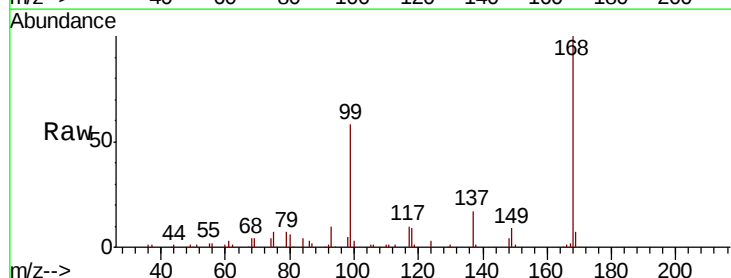
Tgt Ion: 56 Resp: 4943

Ion Ratio Lower Upper

56 100

69 152.8 28.0 42.0#

84 145.6 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

7.63

4000

3000

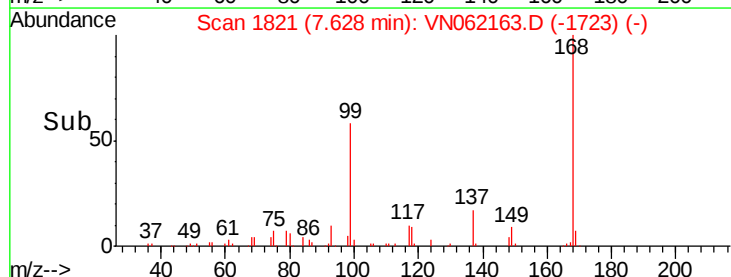
2000

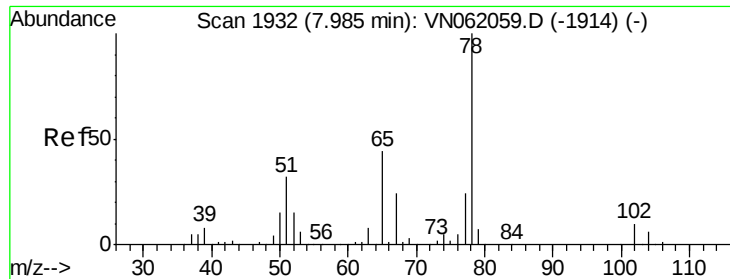
1000

0

7.55 7.60 7.65

Time-->





#33

1,2-Dichloroethane-d4

Concen: 51.024 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN062163.D

Acq: 27 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

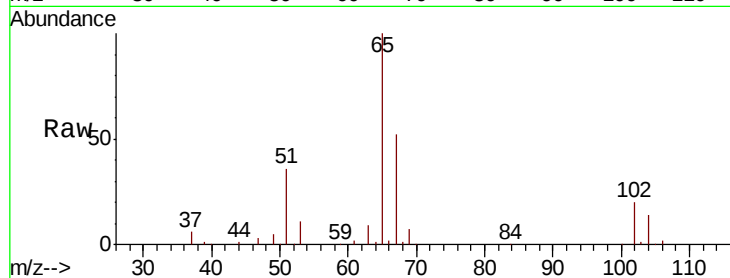
DRUM-COMP

Tot Ion: 65 Resp: 151407

Ion Ratio Lower Upper

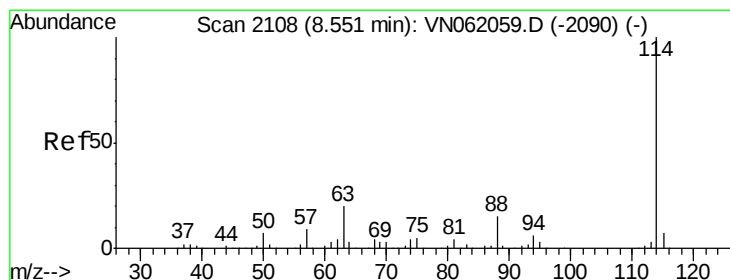
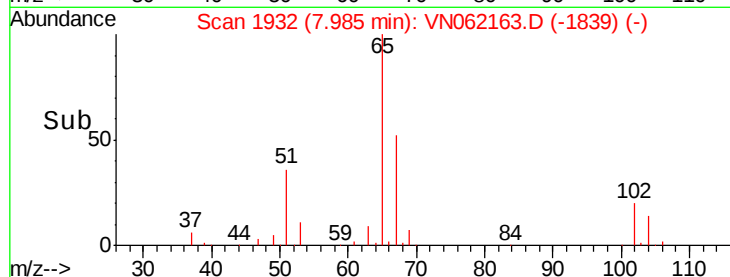
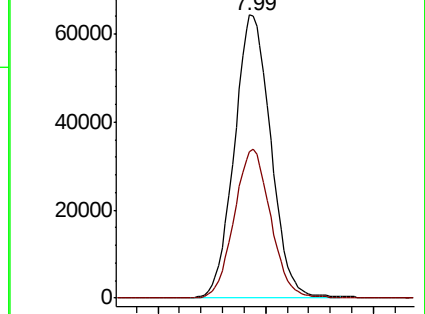
65 100

67 52.7 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN062163.D (-1839) (-)

Ion 66.90 (66.60 to 67.60): VN062163.D (-1839) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062163.D

Acq: 27 Jun 2020 1:28

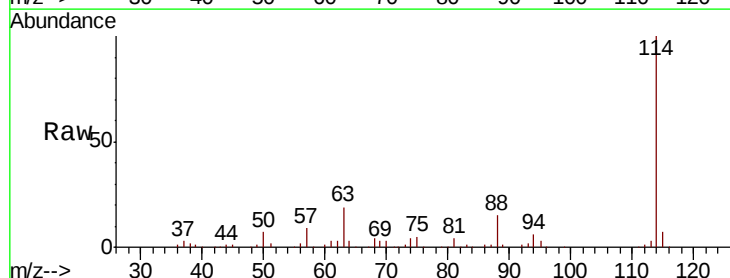
Tgt Ion: 114 Resp: 410035

Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.2

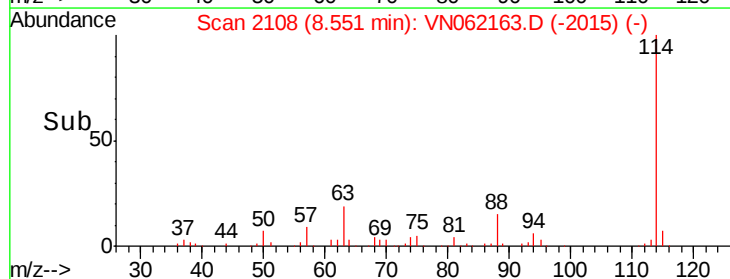
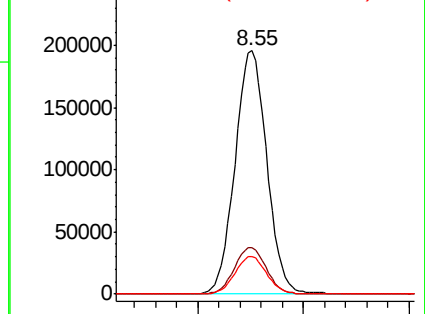
88 15.3 0.0 30.8

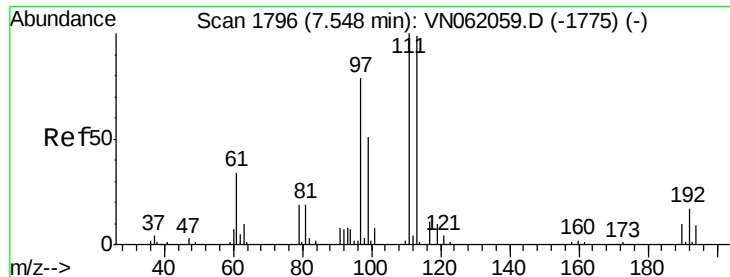


Abundance Ion 113.90 (113.60 to 114.60): VN062163.D (-2015) (-)

Ion 63.00 (62.70 to 63.70): VN062163.D (-2015) (-)

Ion 87.90 (87.60 to 88.60): VN062163.D (-2015) (-)

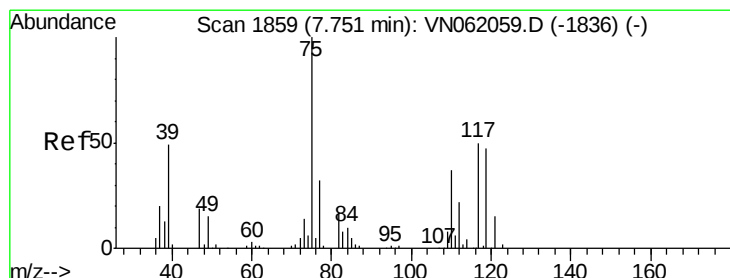
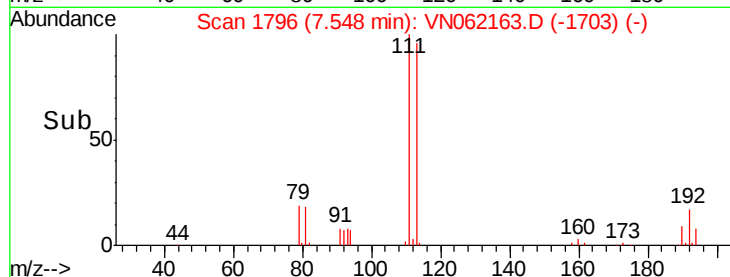
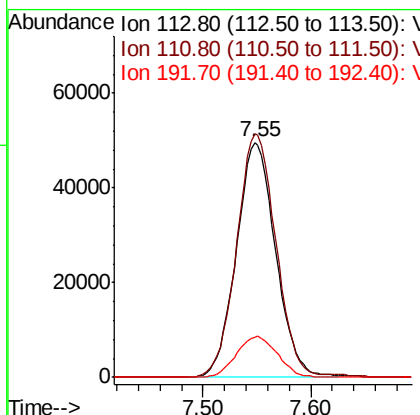
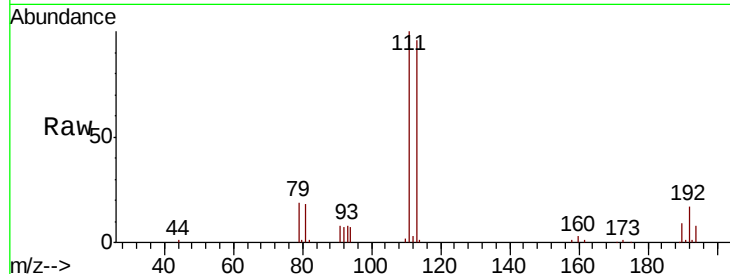




#35
 Dibromofluoromethane
 Concen: 47.748 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062163.D
 Acq: 27 Jun 2020 1:28

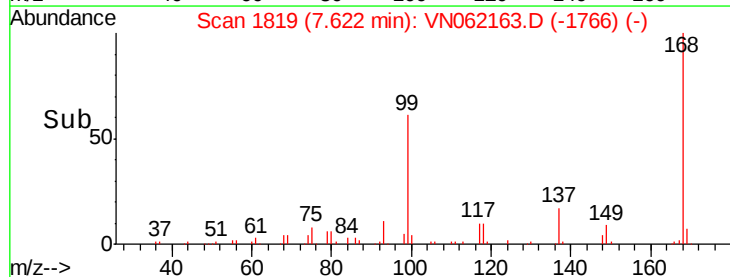
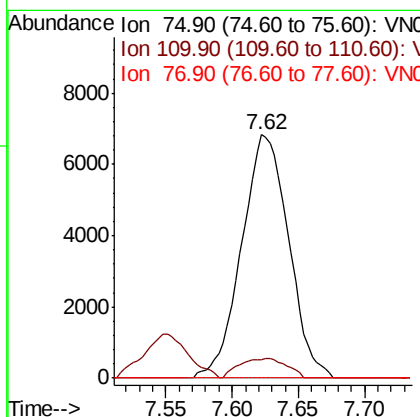
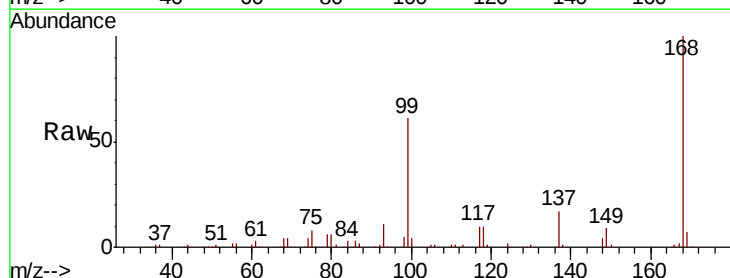
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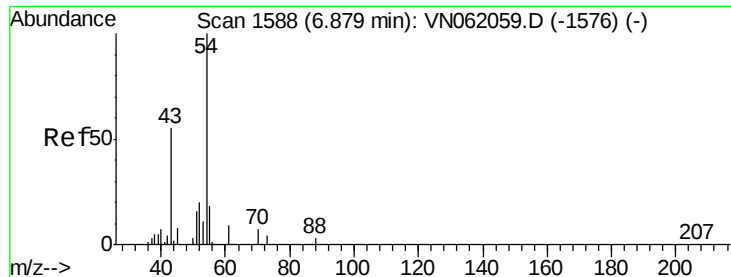
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.4
192	18.1	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.085 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062163.D
 Acq: 27 Jun 2020 1:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.9	53.8#
77	0.0	24.9	37.3#

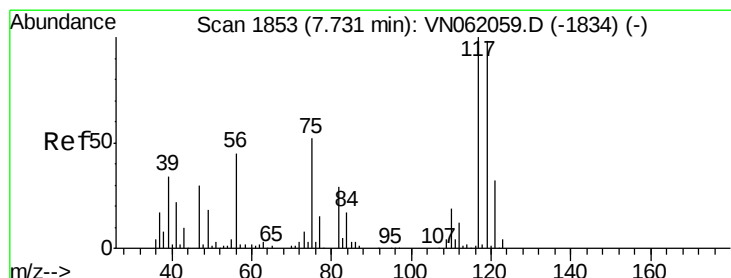
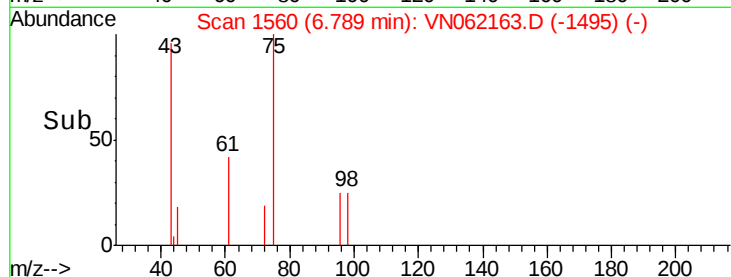
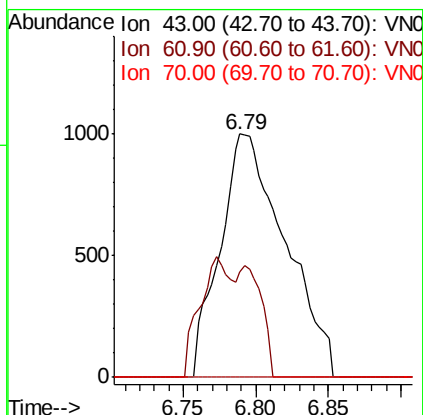
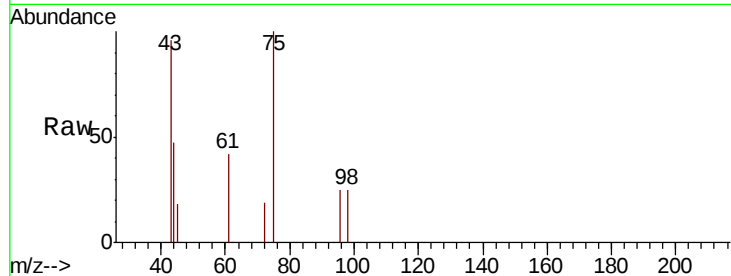




#37
Ethyl Acetate
Concen: 0.916 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. -0.09 min
Lab File: VN062163.D
Acq: 27 Jun 2020 1:28

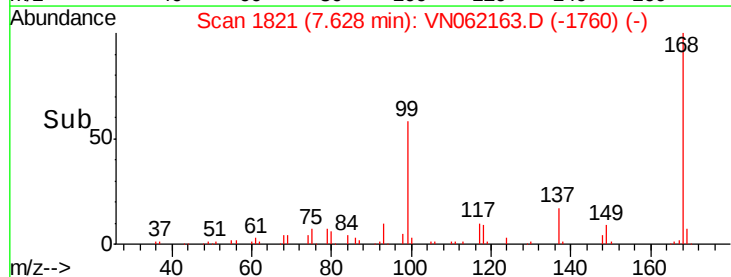
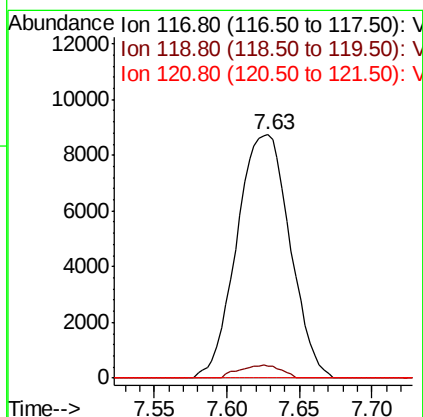
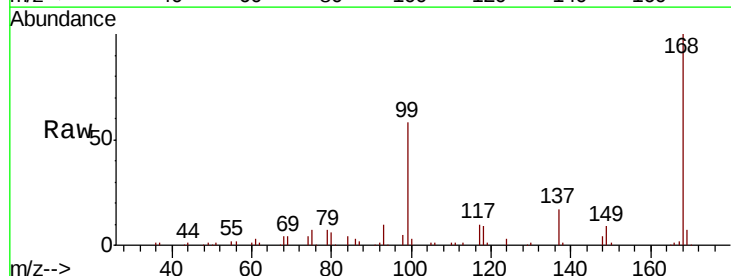
Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP

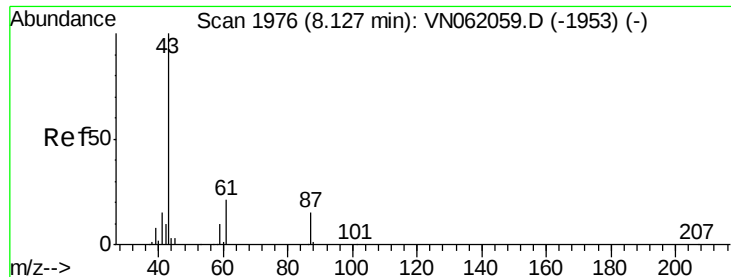
Tot Ion: 43 Resp: 3126
Ion Ratio Lower Upper
43 100
61 24.8 12.0 18.0#
70 0.0 9.6 14.4#



#38
Carbon Tetrachloride
Concen: 5.716 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.10 min
Lab File: VN062163.D
Acq: 27 Jun 2020 1:28

Tgt Ion: 117 Resp: 22209
Ion Ratio Lower Upper
117 100
119 5.1 78.2 117.2#
121 0.0 25.8 38.6#





#43

Isopropyl Acetate

Concen: 6.063 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062163.D

Acq: 27 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

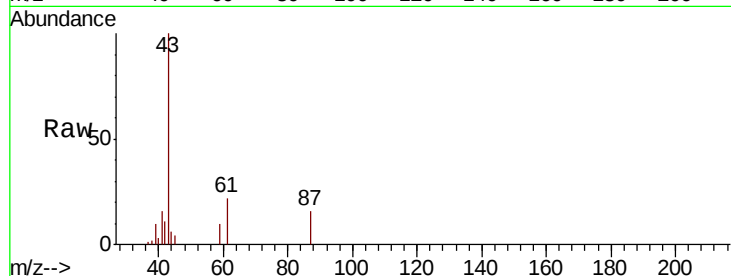
Tot Ion: 43 Resp: 33731

Ion Ratio Lower Upper

43 100

61 22.0 17.2 25.8

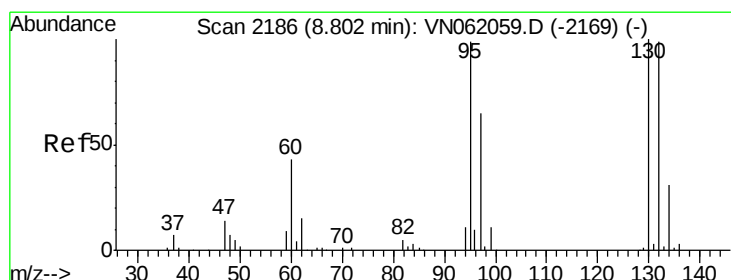
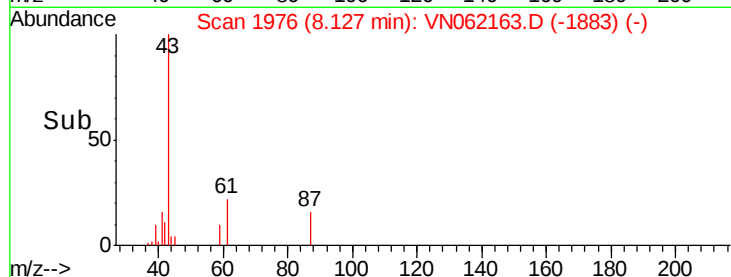
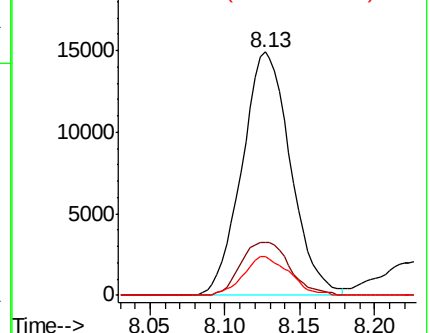
87 15.0 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-1953) (-)

Ion 61.00 (60.70 to 61.70): VN062059.D (-1953) (-)

Ion 87.00 (86.70 to 87.70): VN062059.D (-1953) (-)



#44

Trichloroethene

Concen: 0.393 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN062163.D

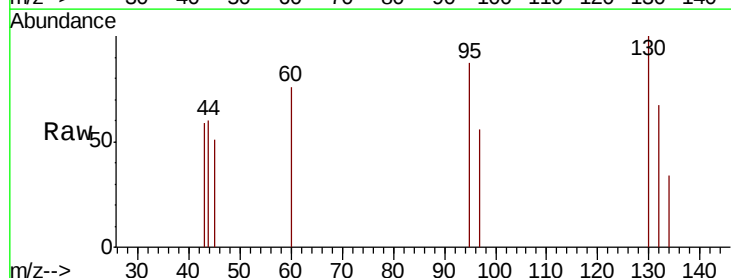
Acq: 27 Jun 2020 1:28

Tgt Ion: 130 Resp: 1246

Ion Ratio Lower Upper

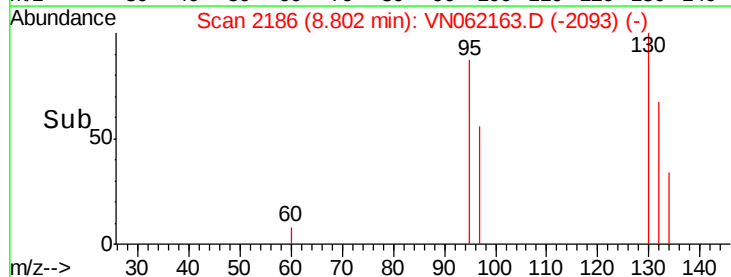
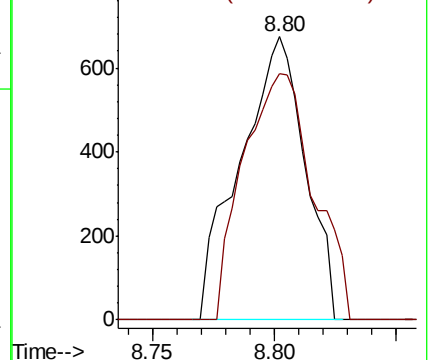
130 100

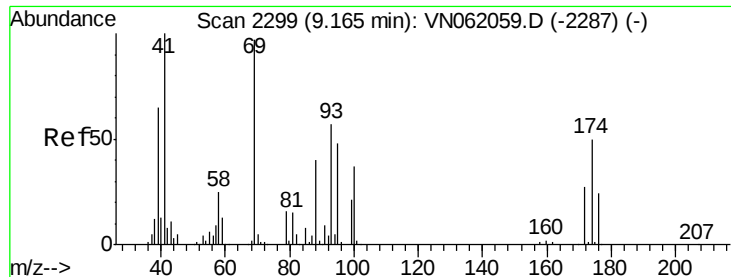
95 87.1 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): VN062059.D (-2169) (-)

Ion 94.90 (94.60 to 95.60): VN062059.D (-2169) (-)

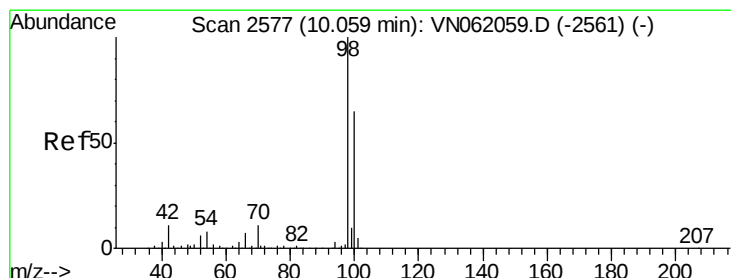
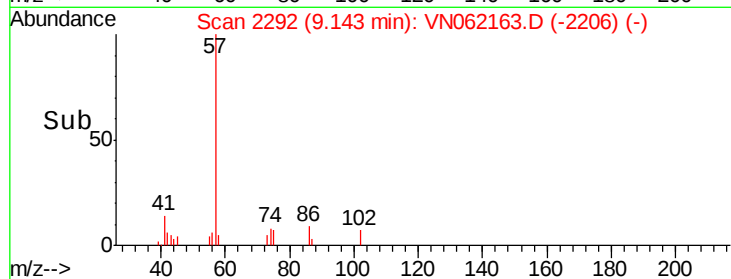
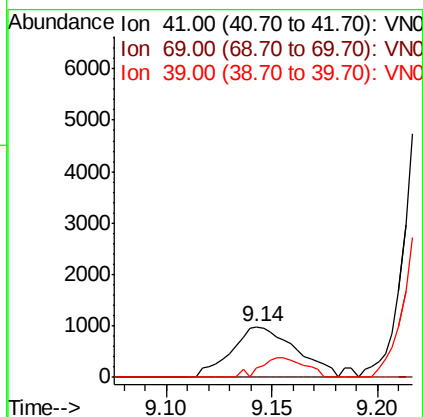
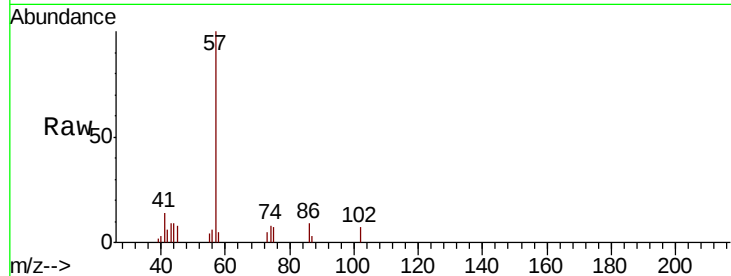




#48
Methvl methacrylate
Concen: 0.835 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VN062163.D
Acq: 27 Jun 2020 1:28

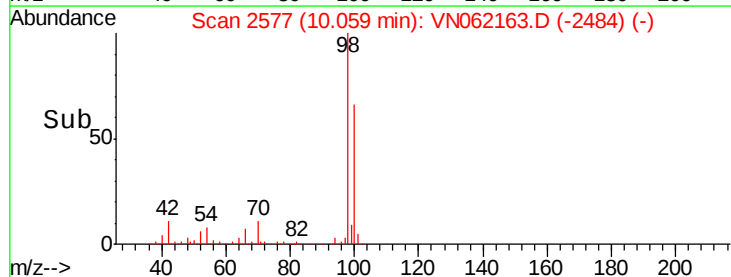
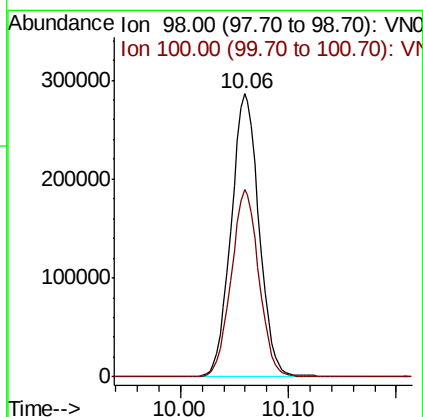
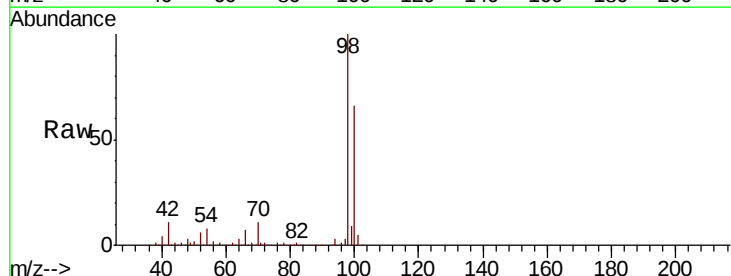
Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP

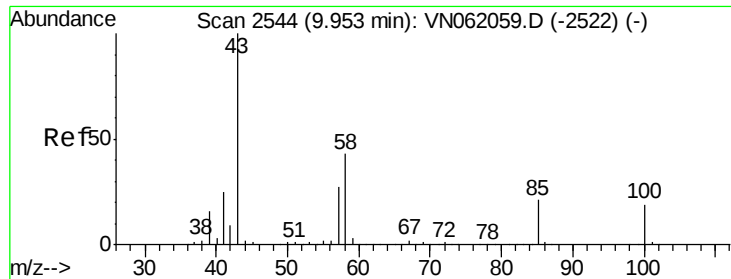
Tot Ion: 41 Resp: 2084
Ion Ratio Lower Upper
41 100
69 0.0 80.7 121.1#
39 26.7 54.5 81.7#



#50
Toluene-d8
Concen: 49.147 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062163.D
Acq: 27 Jun 2020 1:28

Tgt Ion: 98 Resp: 516794
Ion Ratio Lower Upper
98 100
100 65.5 51.2 76.8

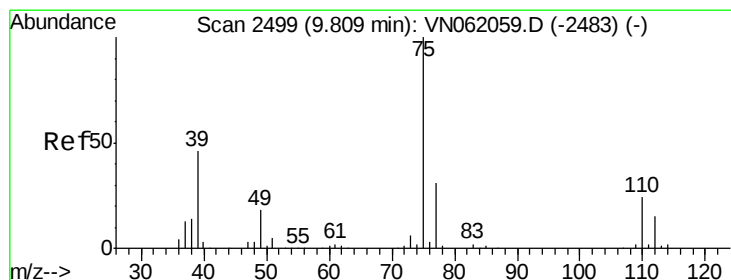
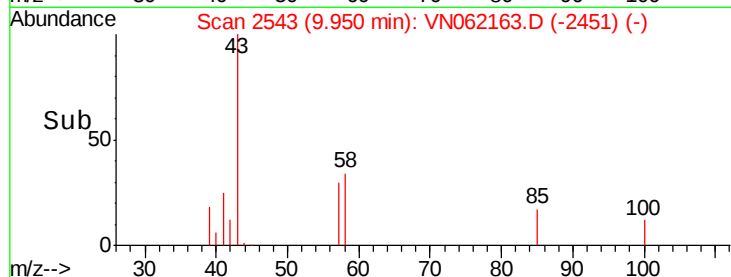
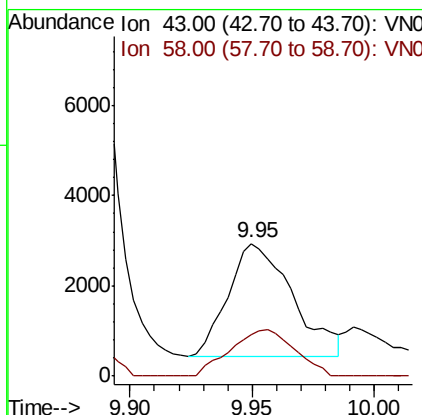
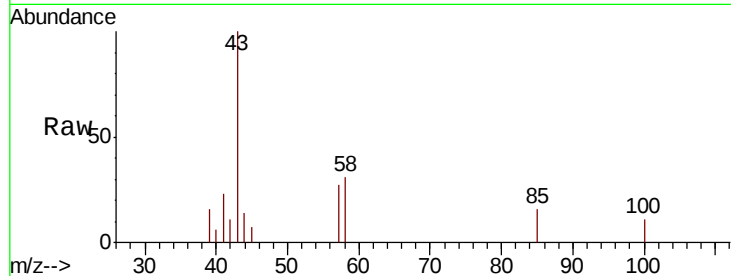




#51
4-Methyl-2-Pentanone
Concen: 1.412 ug/l
RT: 9.95 min Scan# 2543
Delta R.T. -0.00 min
Lab File: VN062163.D
Acq: 27 Jun 2020 1:28

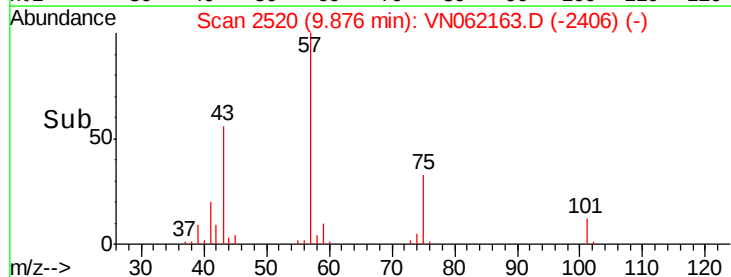
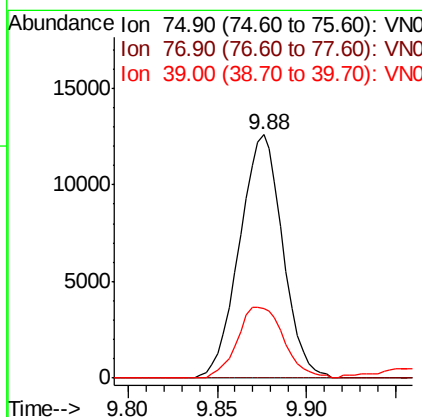
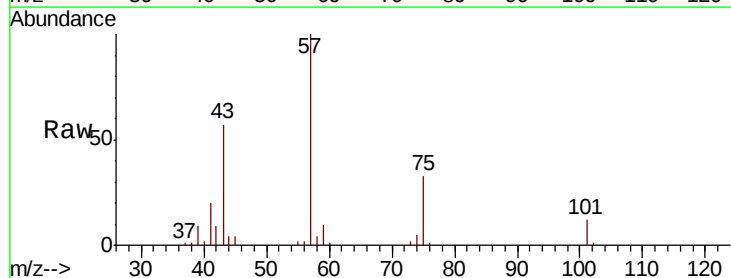
Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP

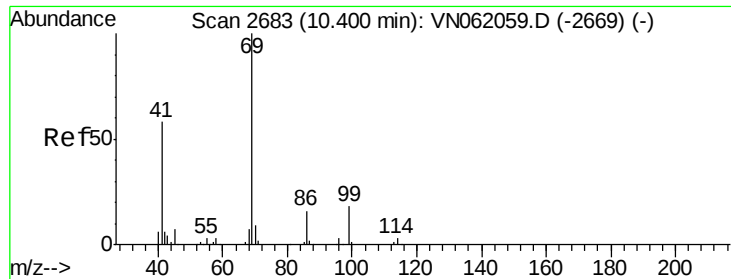
Tot Ion: 43 Resp: 4589
Ion Ratio Lower Upper
43 100
58 40.8 34.2 51.2



#54
cis-1,3-Dichloropropene
Concen: 4.291 ug/l
RT: 9.88 min Scan# 2520
Delta R.T. 0.07 min
Lab File: VN062163.D
Acq: 27 Jun 2020 1:28

Tgt Ion: 75 Resp: 21323
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#
39 28.4 36.9 55.3#





#56

Ethyl methacrylate

Concen: 0.217 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062163.D

Acq: 27 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

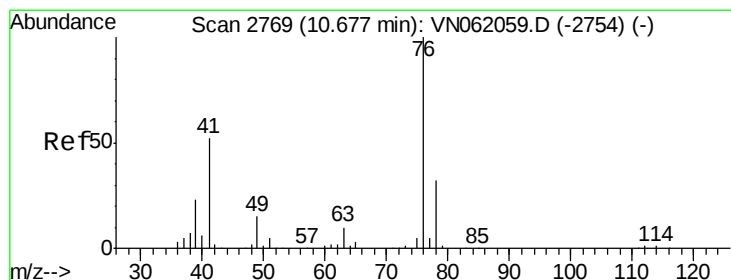
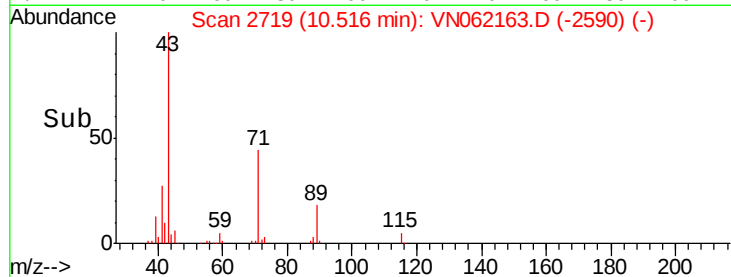
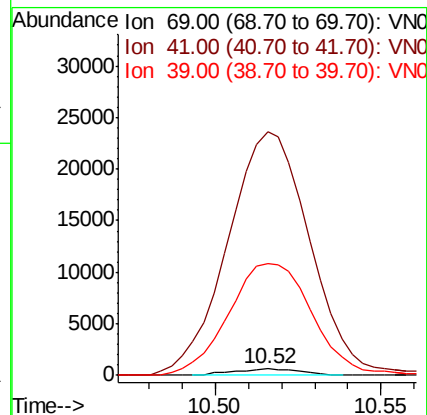
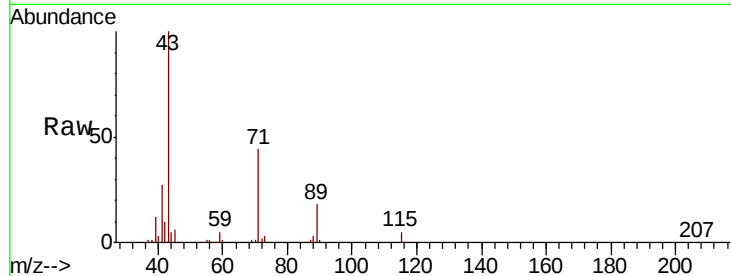
Tot Ion: 69 Resp: 873

Ion Ratio Lower Upper

69 100

41 4706.5 46.6 70.0#

39 2182.7 31.0 46.4#



#57

1,3-Dichloropropane

Concen: 0.374 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.06 min

Lab File: VN062163.D

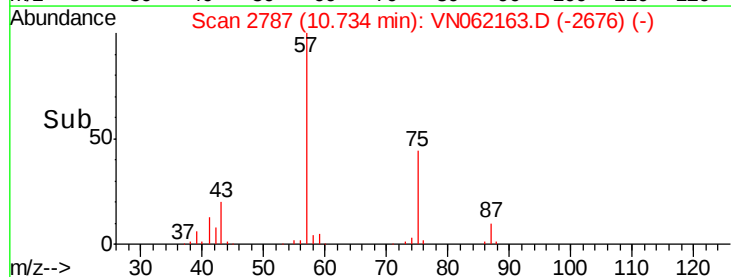
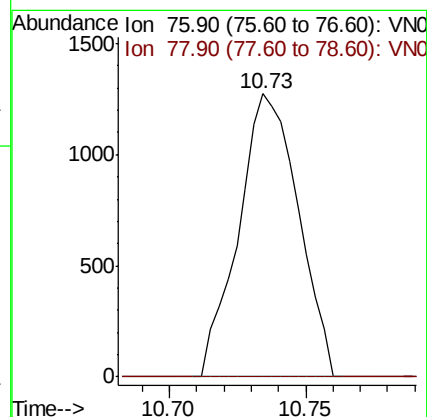
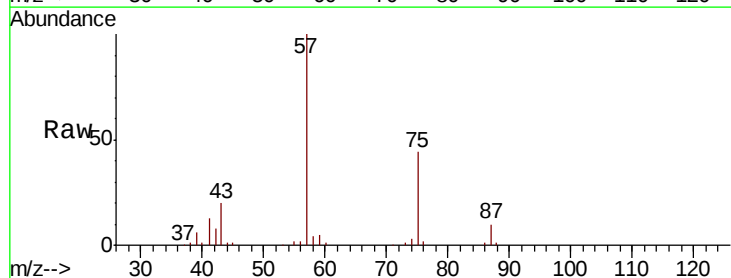
Acq: 27 Jun 2020 1:28

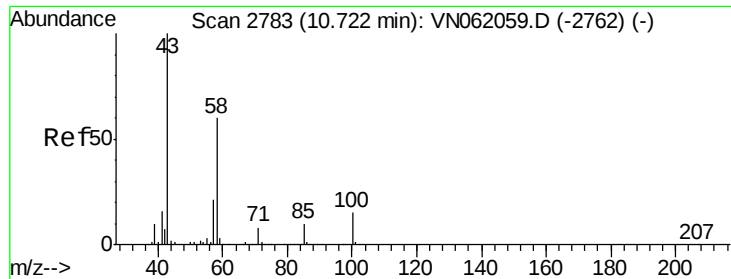
Tgt Ion: 76 Resp: 1938

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

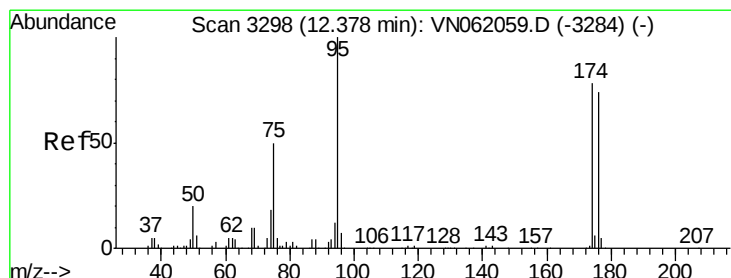
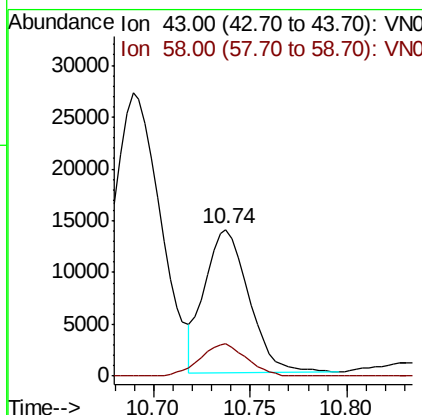
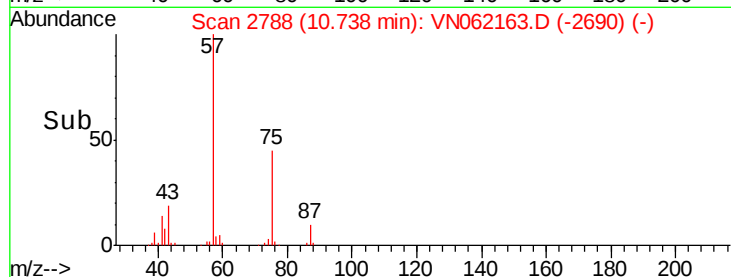
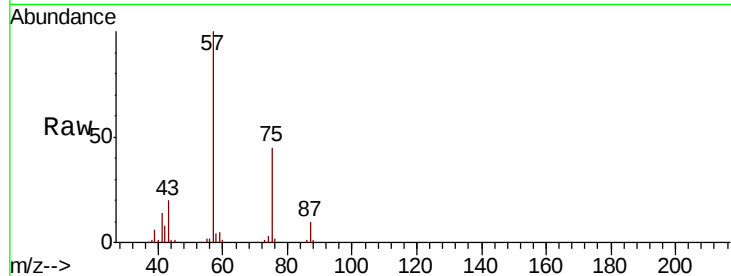




#59
2-Hexanone
Concen: 9.366 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062163.D
Acq: 27 Jun 2020 1:28

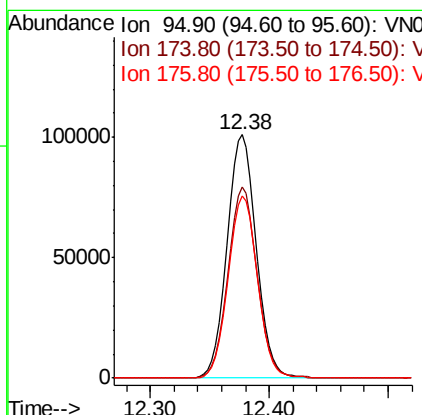
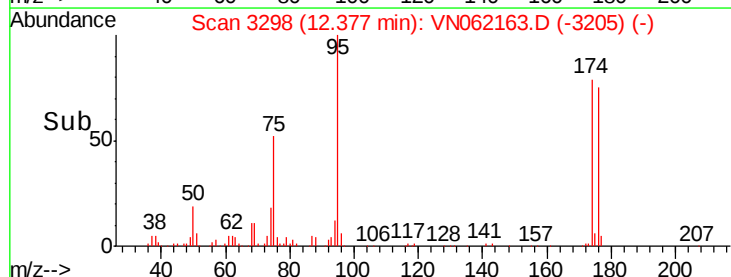
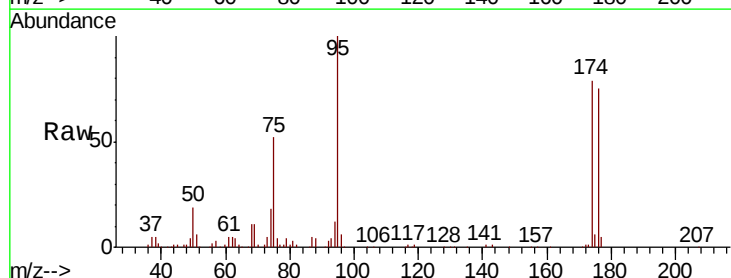
Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP

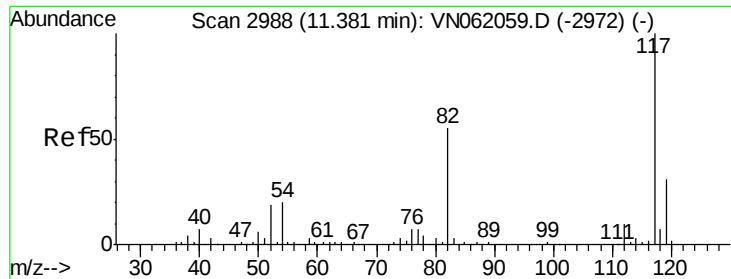
Tot Ion: 43 Resp: 21983
Ion Ratio Lower Upper
43 100
58 23.7 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 48.369 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062163.D
Acq: 27 Jun 2020 1:28

Tgt Ion: 95 Resp: 171840
Ion Ratio Lower Upper
95 100
174 78.5 0.0 154.8
176 75.3 0.0 147.4

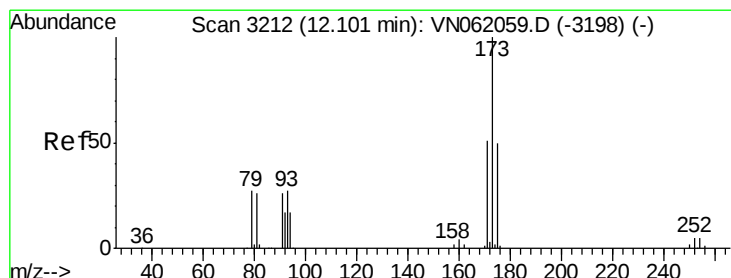
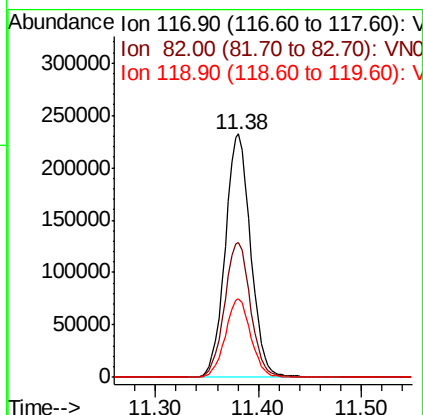
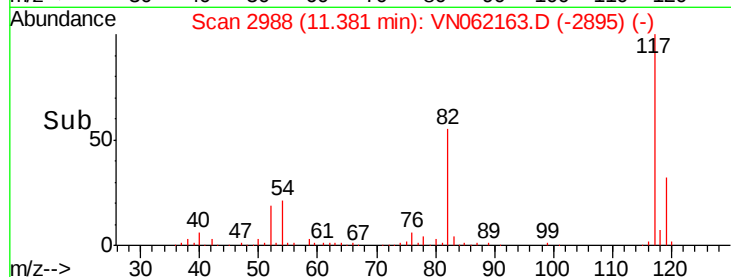
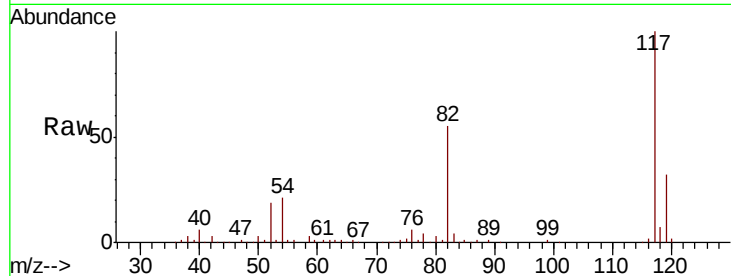




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062163.D
Acq: 27 Jun 2020 1:28

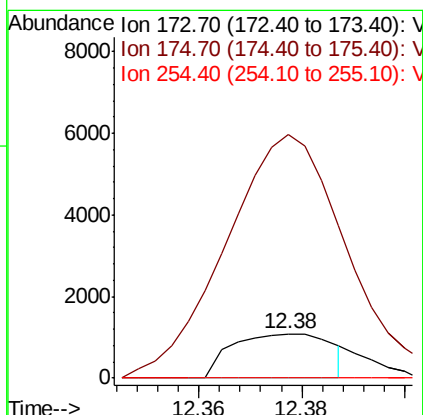
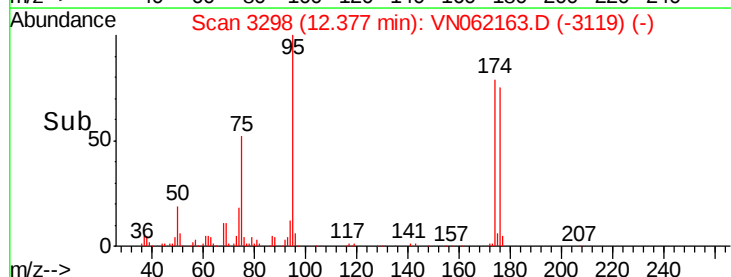
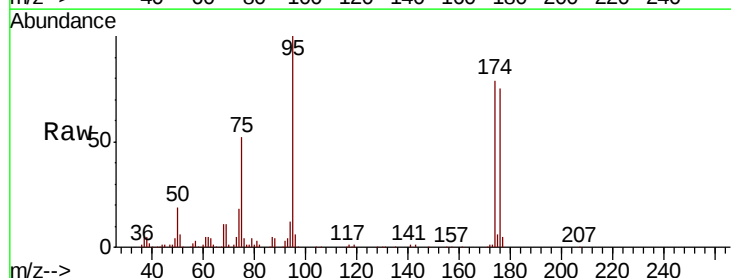
Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP

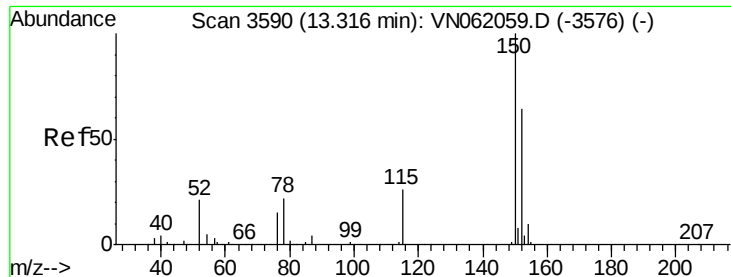
Tot Ion:117 Resp: 399293
Ion Ratio Lower Upper
117 100
82 55.4 43.8 65.8
119 32.5 25.2 37.8



#71
Bromoform
Concen: 0.672 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062163.D
Acq: 27 Jun 2020 1:28

Tgt Ion:173 Resp: 1448
Ion Ratio Lower Upper
173 100
175 571.0 24.7 74.1#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062163.D

Acq: 27 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

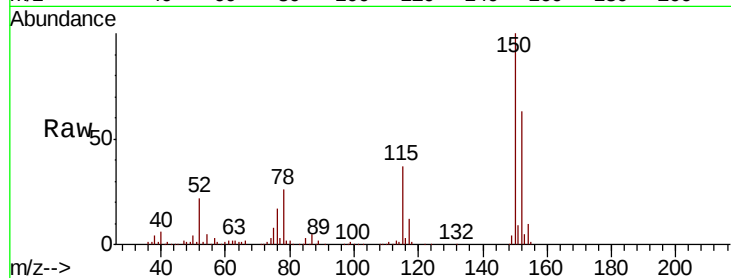
Tot Ion:152 Resp: 149166

Ion Ratio Lower Upper

152 100

115 60.1 29.5 88.5

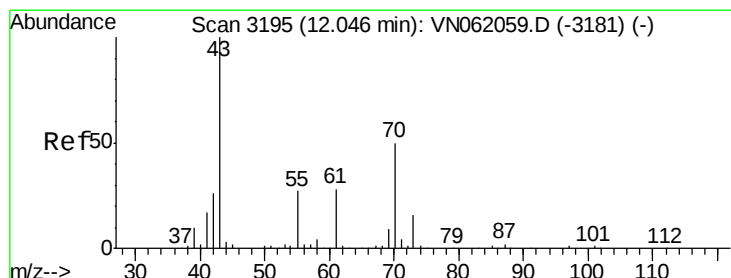
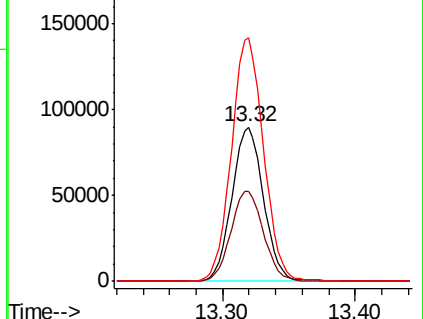
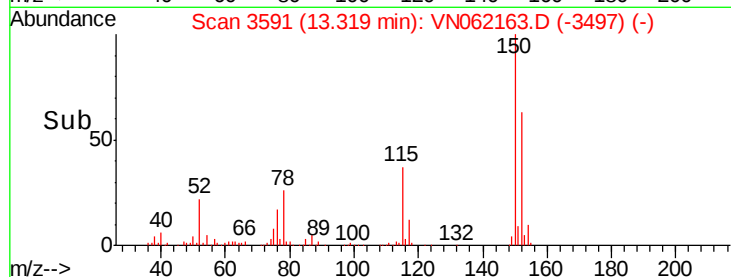
150 160.0 0.0 351.4



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: 3.683 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062163.D

Acq: 27 Jun 2020 1:28

Tgt Ion: 43 Resp: 1546

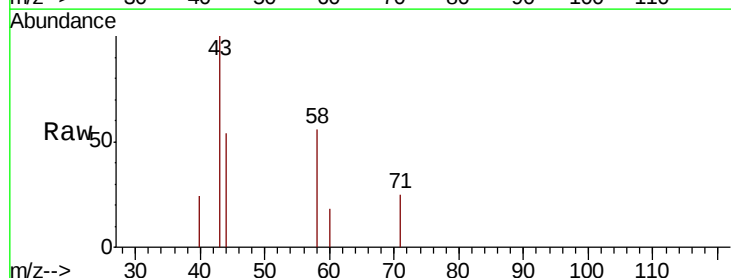
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

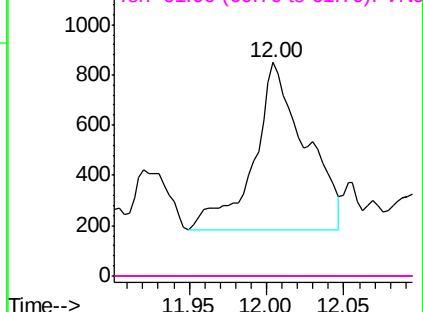
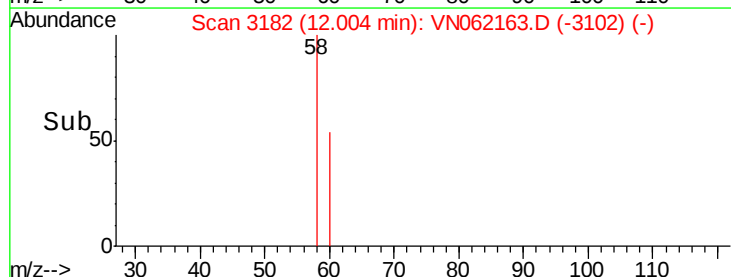


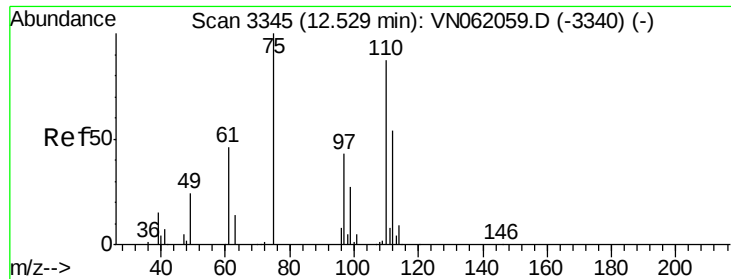
Abundance Ion 43.00 (42.70 to 43.70): V

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: 25.036 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062163.D

Acq: 27 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

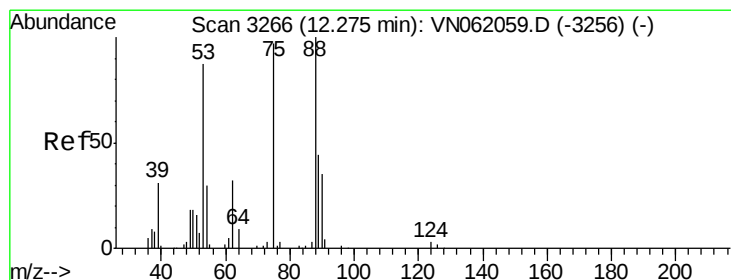
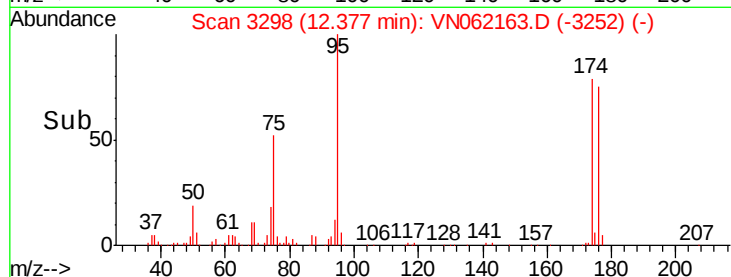
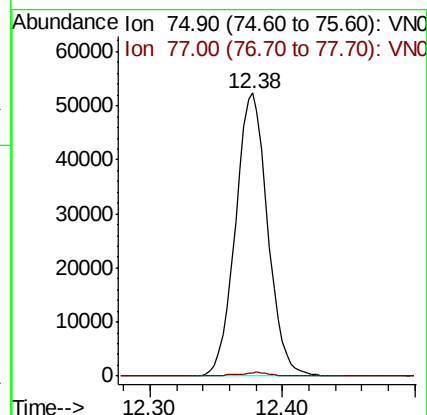
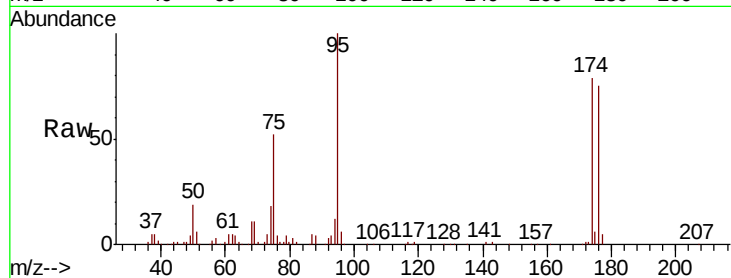
DRUM-COMP

Tot Ion: 75 Resp: 87914

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.115 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062163.D

Acq: 27 Jun 2020 1:28

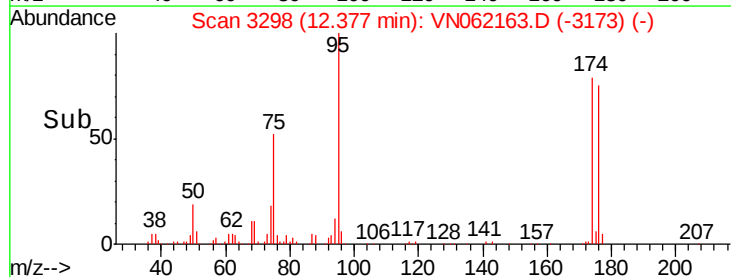
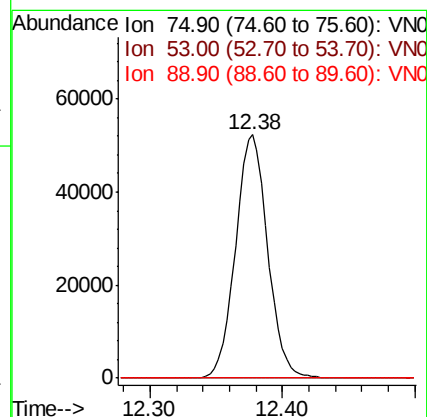
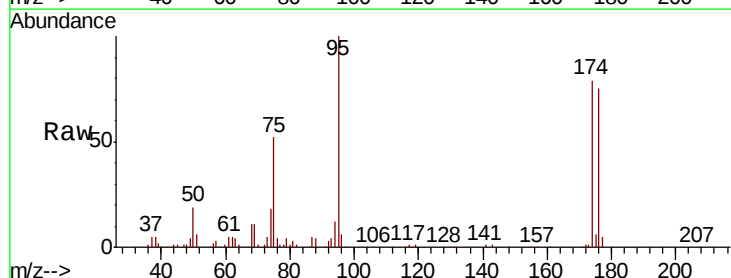
Tgt Ion: 75 Resp: 87914

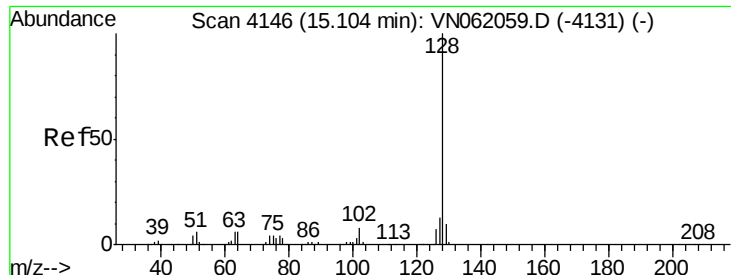
Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#





#95

Naphthalene

Concen: 4.044 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062163.D

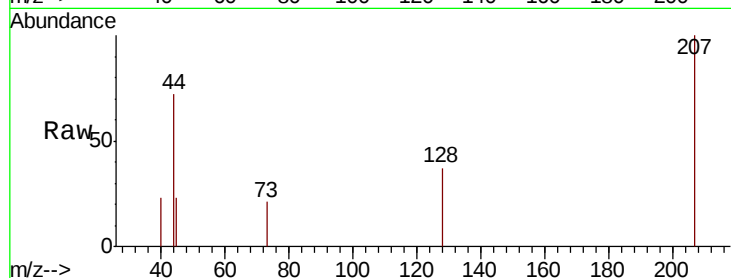
Acq: 27 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP



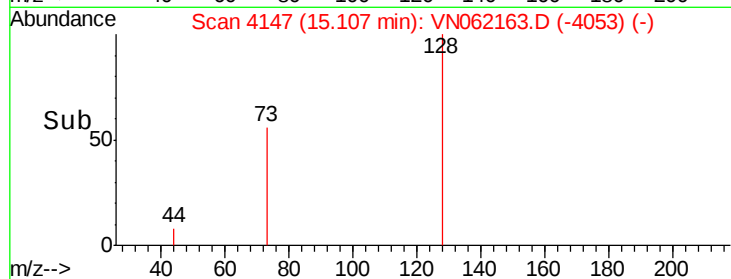
Tot Ion:128 Resp: 378

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

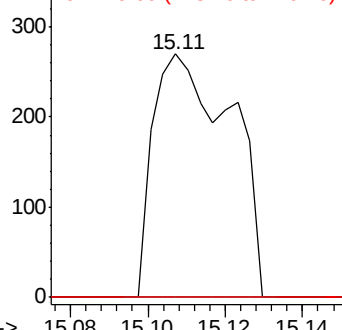
129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time--> 15.08 15.10 15.12 15.14