

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081020\
 Data File : VN062819.D
 Acq On : 10 Aug 2020 19:50
 Operator : JC/MD
 Sample : L3506-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-080720

Quant Time: Aug 11 06:57:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:26:42 2020
 Response via : Initial Calibration

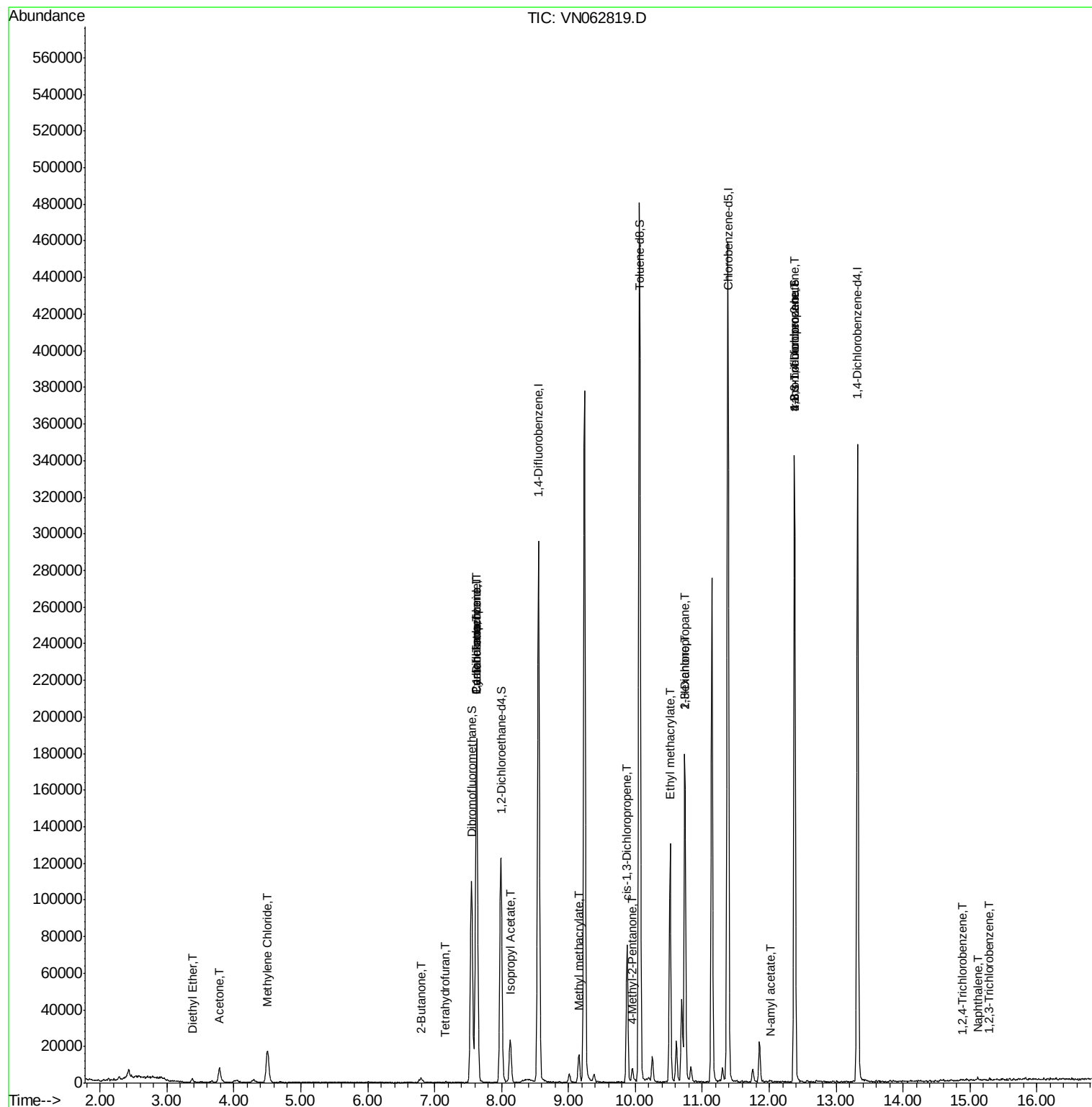
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	142113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	252147	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	261062	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	92330	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	115409	49.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.22%	
35) Dibromofluoromethane	7.55	113	84114	48.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.54%	
50) Toluene-d8	10.06	98	332370	49.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.72%	
62) 4-Bromofluorobenzene	12.38	95	122433	48.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.22%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.38	74	828	0.901	ug/l #	47
16) Acetone	3.78	43	13036	15.351	ug/l	99
17) Carbon Disulfide	4.01	76	580	Below Cal	#	74
18) Methyl Acetate	4.28	43	1332	Below Cal	#	65
20) Methylene Chloride	4.50	84	13485	8.039	ug/l	89
25) 2-Butanone	6.81	43	2416	2.009	ug/l #	63
29) Tetrahydrofuran	7.17	42	232	0.297	ug/l #	33
31) Cyclohexane	7.62	56	3276	1.150	ug/l #	19
36) 1,1-Dichloropropene	7.63	75	12045	4.906	ug/l #	50
38) Carbon Tetrachloride	7.63	117	15264	5.257	ug/l #	15
43) Isopropyl Acetate	8.13	43	27995	6.544	ug/l	98
48) Methyl methacrylate	9.15	41	2398	1.140	ug/l #	13
51) 4-Methyl-2-Pentanone	9.96	43	5190	1.875	ug/l	99
54) cis-1,3-Dichloropropene	9.88	75	12926	4.011	ug/l #	64
56) Ethyl methacrylate	10.52	69	632	0.217	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	1670	0.509	ug/l #	43
59) 2-Hexanone	10.74	43	25622	12.410	ug/l #	55
74) N-amyl acetate	12.01	43	1582	0.562	ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	64788	26.019	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	64788	79.428	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.89	180	142	3.407	ug/l	58
95) Naphthalene	15.12	128	1361	4.005	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.28	180	224	2.879	ug/l #	76

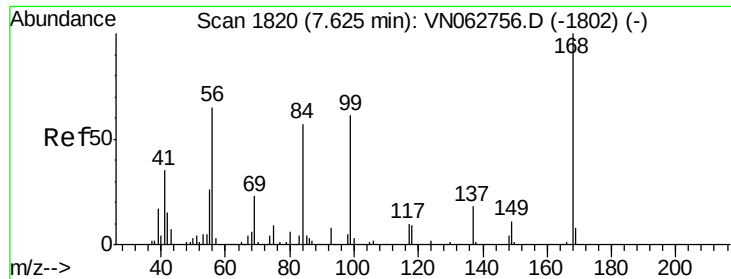
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 05 13:26:42 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: VN062819.D

Acq: 10 Aug 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

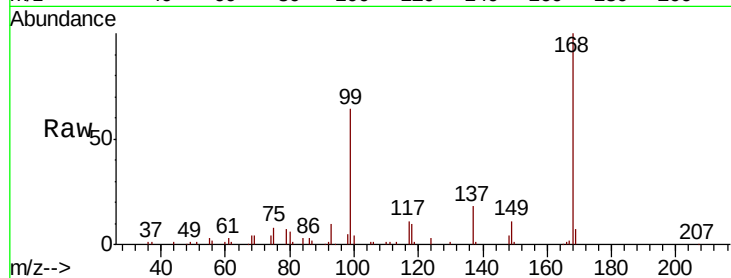
OR-02-080720

Tot Ion:168 Resp: 142113

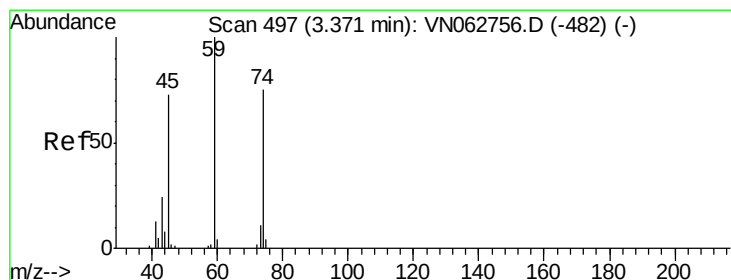
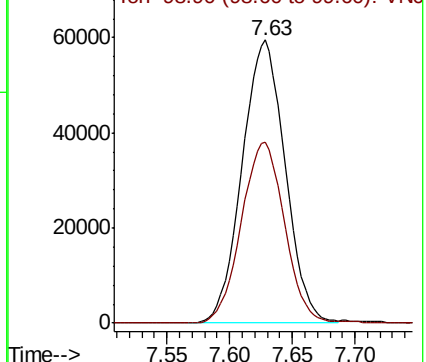
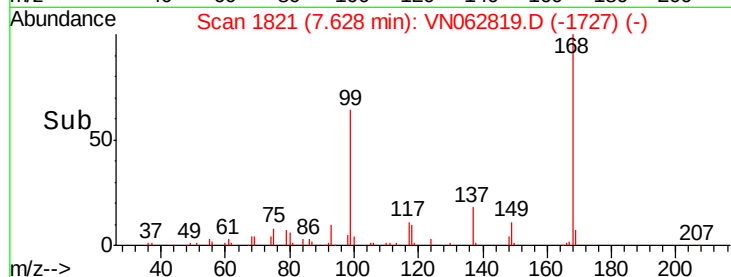
Ion Ratio Lower Upper

168 100

99 64.0 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): VN062819.D (-1727) (-)



#8

Diethyl Ether

Concen: 0.901 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.01 min

Lab File: VN062819.D

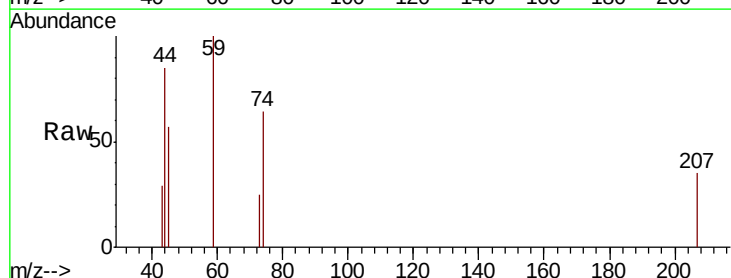
Acq: 10 Aug 2020 19:50

Tgt Ion: 74 Resp: 828

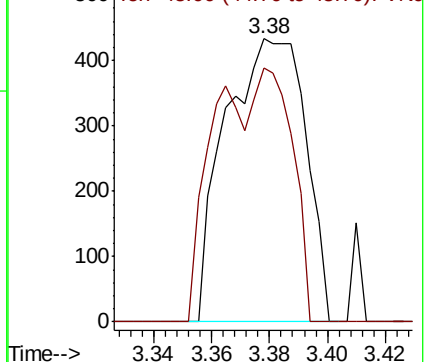
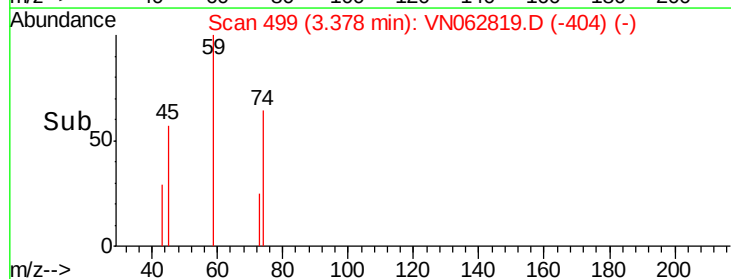
Ion Ratio Lower Upper

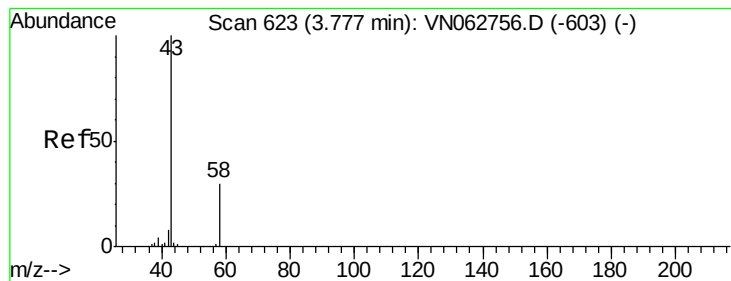
74 100

45 45.2 48.7 146.1#



Abundance Ion 74.00 (73.70 to 74.70): VN062819.D (-404) (-)





#16

Acetone

Concen: 15.351 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

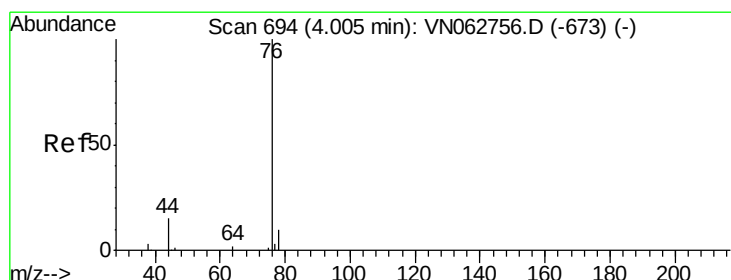
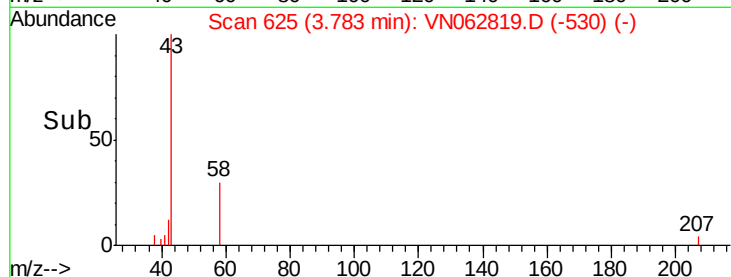
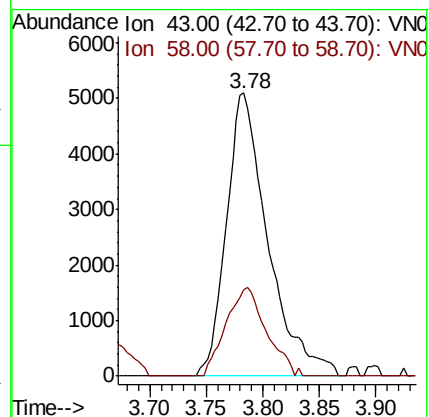
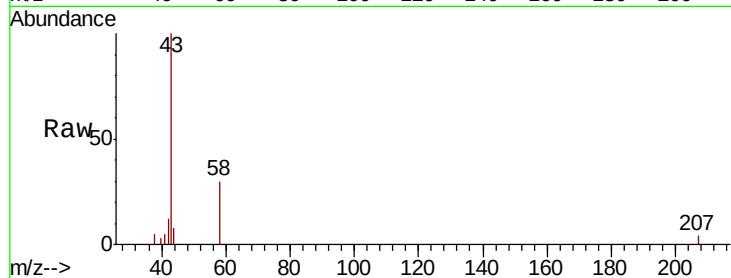
OR-02-080720

Tot Ion: 43 Resp: 13036

Ion Ratio Lower Upper

43 100

58 30.4 24.1 36.1



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN062819.D

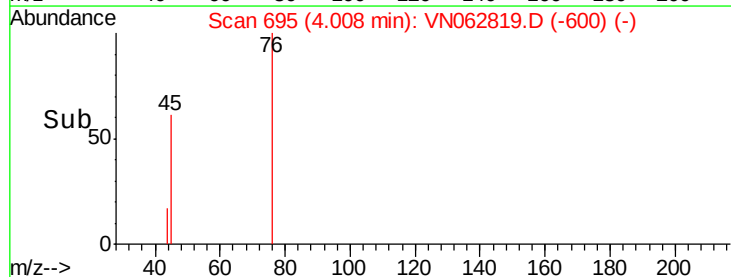
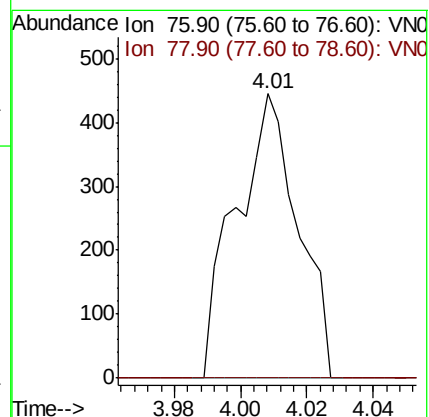
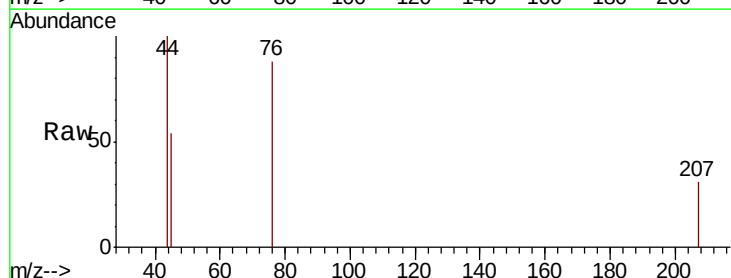
Acq: 10 Aug 2020 19:50

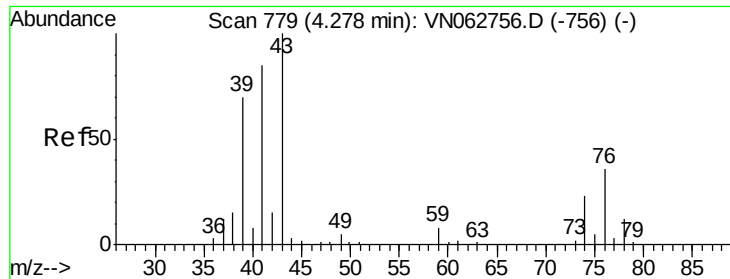
Tgt Ion: 76 Resp: 580

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#

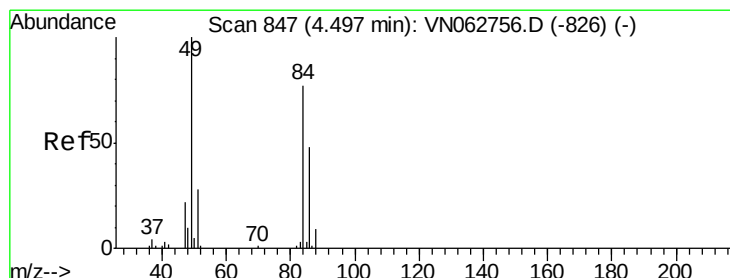
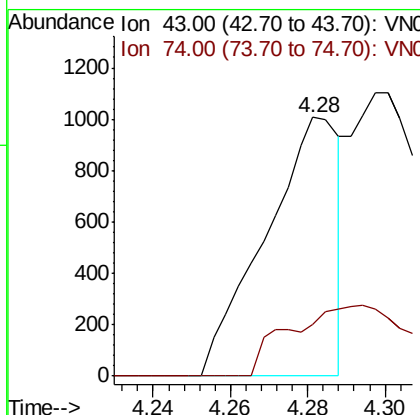
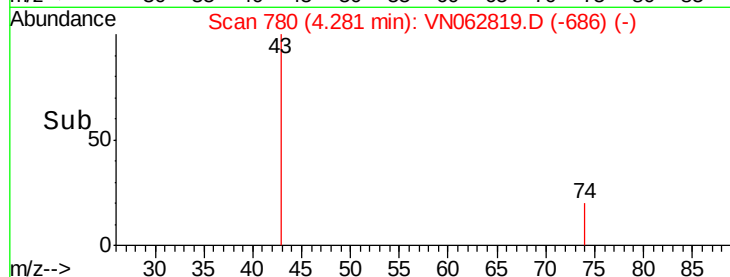
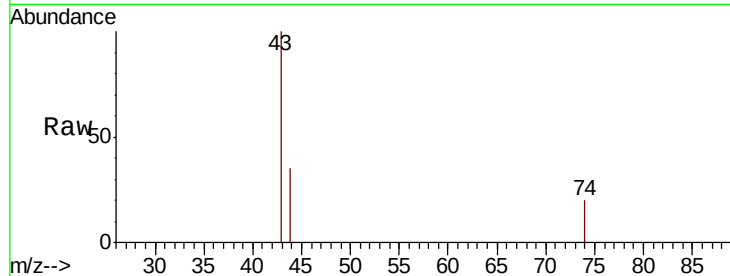




#18
Methyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 780
Delta R.T. 0.00 min
Lab File: VN062819.D
Acq: 10 Aug 2020 19:50

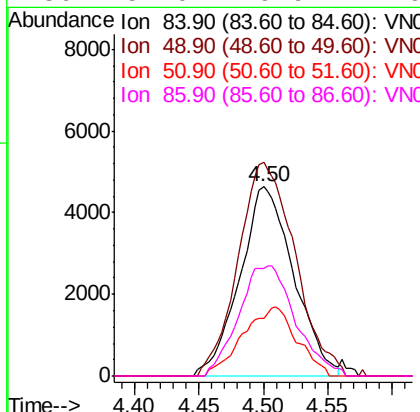
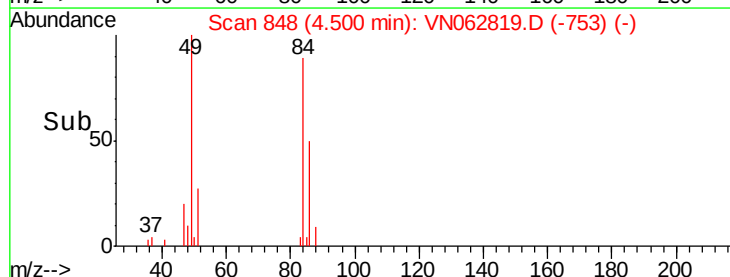
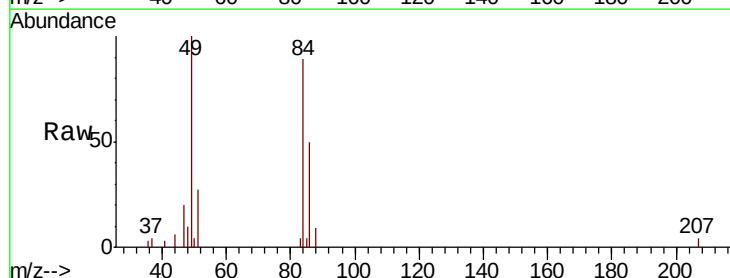
Instrument :
MSVOA_N
ClientSampled :
OR-02-080720

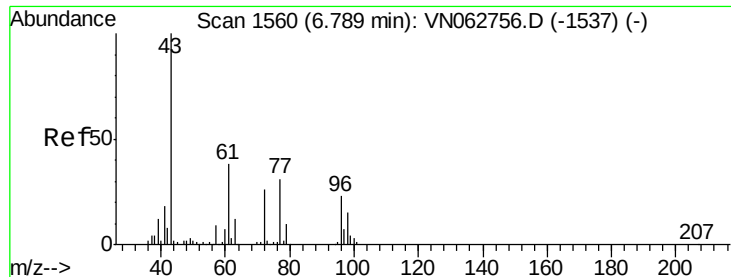
Tot Ion: 43 Resp: 1332
Ion Ratio Lower Upper
43 100
74 40.3 18.6 28.0#



#20
Methylene Chloride
Concen: 8.039 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN062819.D
Acq: 10 Aug 2020 19:50

Tgt Ion: 84 Resp: 13485
Ion Ratio Lower Upper
84 100
49 113.0 103.4 155.2
51 30.7 29.3 43.9
86 57.0 49.9 74.9





#25

2-Butanone

Concen: 2.009 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.02 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

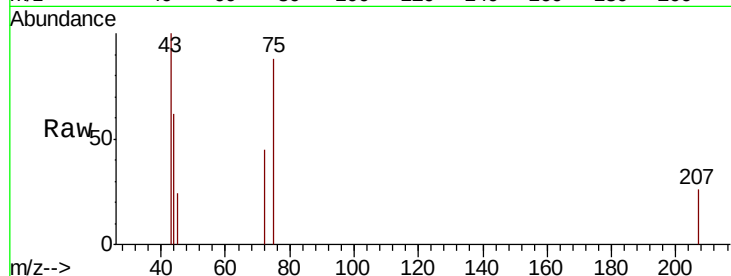
OR-02-080720

Tot Ion: 43 Resp: 2416

Ion Ratio Lower Upper

43 100

72 45.2 21.1 31.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.81

800

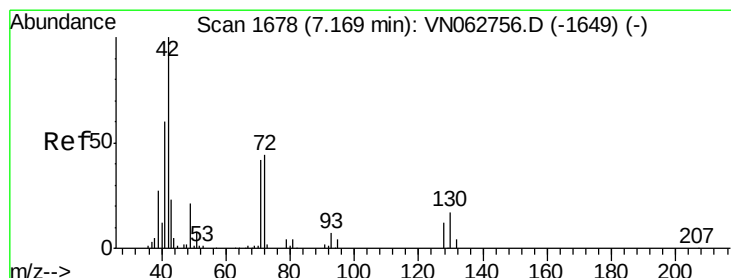
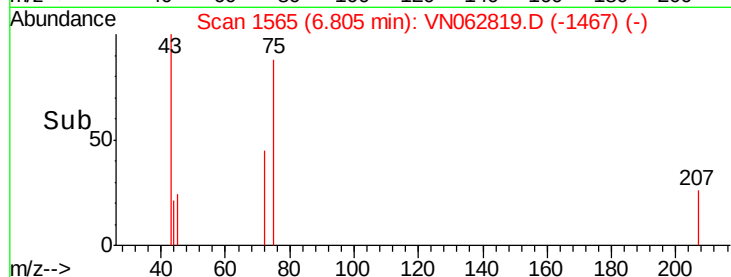
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 0.297 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

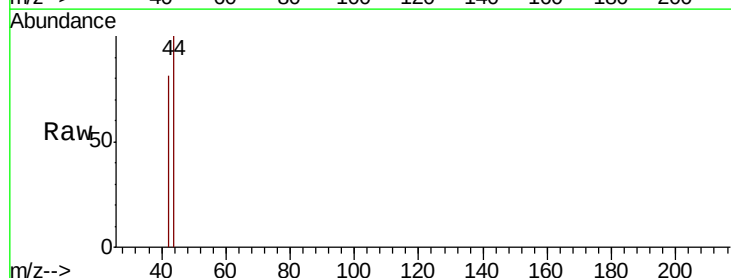
Tgt Ion: 42 Resp: 232

Ion Ratio Lower Upper

42 100

72 0.0 35.0 52.4#

71 0.0 33.2 49.8#



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

400

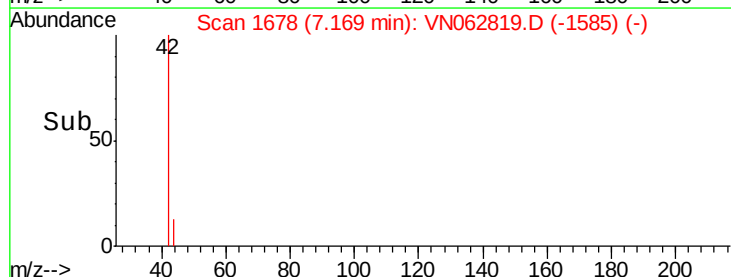
300

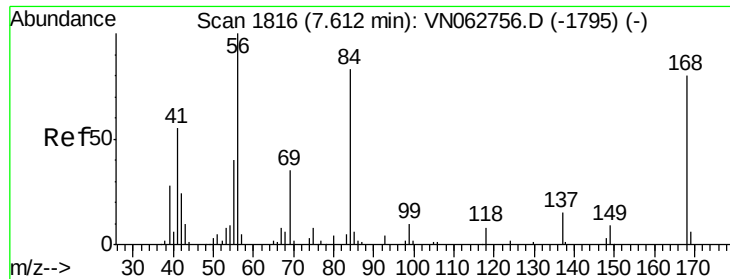
200

100

0

Time-->

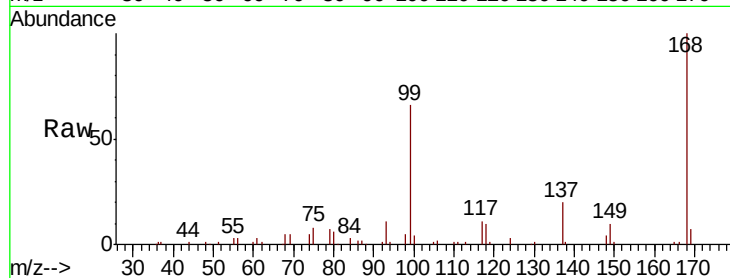




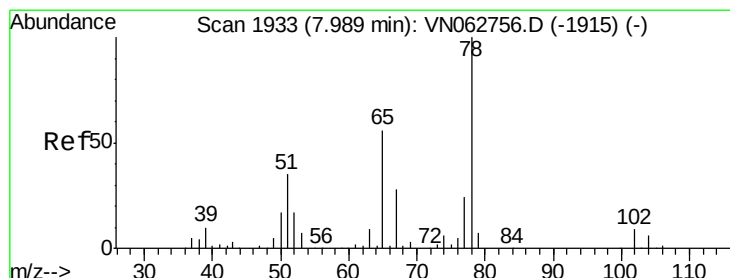
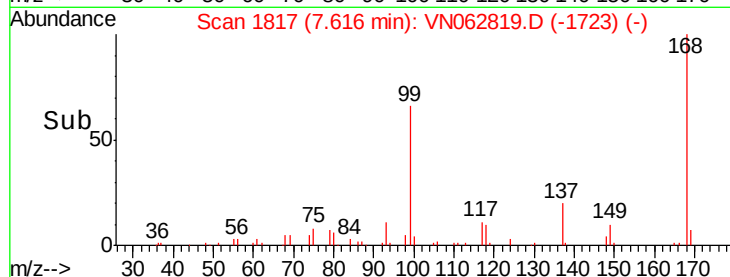
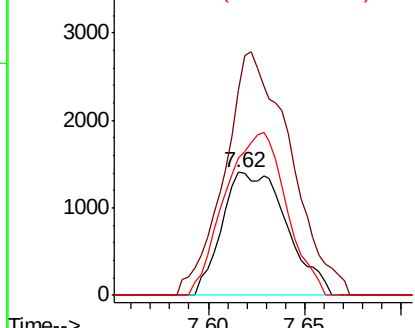
#31
Cyclohexane
Concen: 1.150 ug/l
RT: 7.62 min Scan# 1817
Delta R.T. 0.00 min
Lab File: VN062819.D
Acq: 10 Aug 2020 19:50

Instrument :
MSVOA_N
ClientSampleId :
OR-02-080720

Tot Ion: 56 Resp: 3276
Ion Ratio Lower Upper
56 100
69 151.3 28.1 42.1#
84 111.2 66.8 100.2#

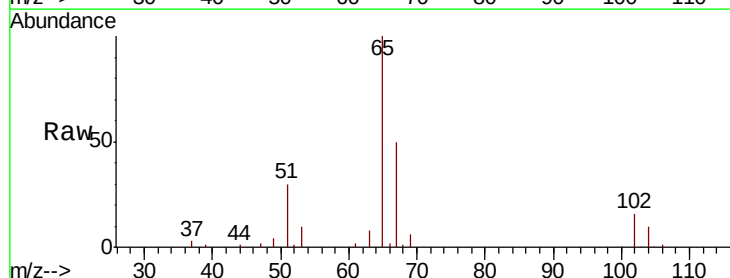


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

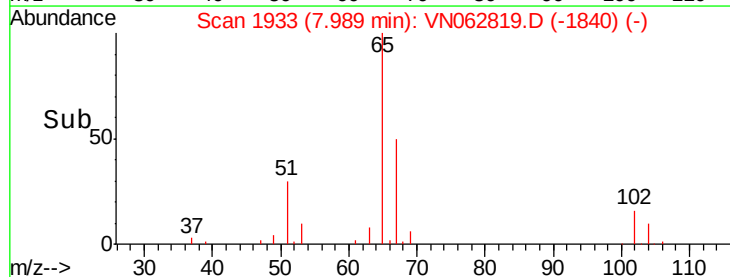
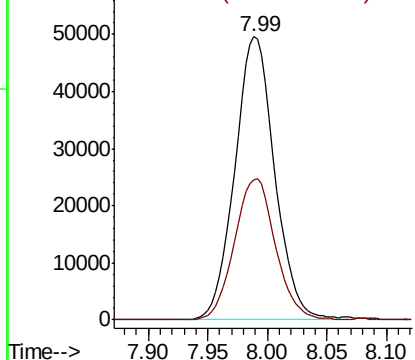


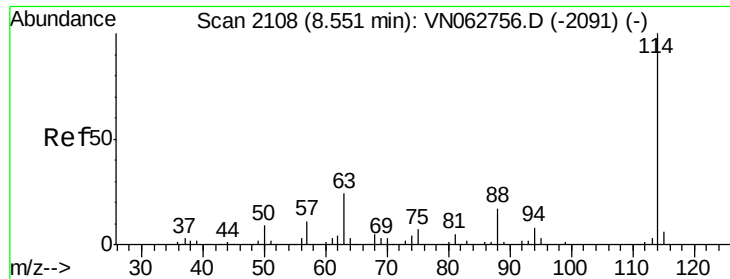
#33
1,2-Dichloroethane-d4
Concen: 49.108 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062819.D
Acq: 10 Aug 2020 19:50

Tgt Ion: 65 Resp: 115409
Ion Ratio Lower Upper
65 100
67 51.2 0.0 101.4



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

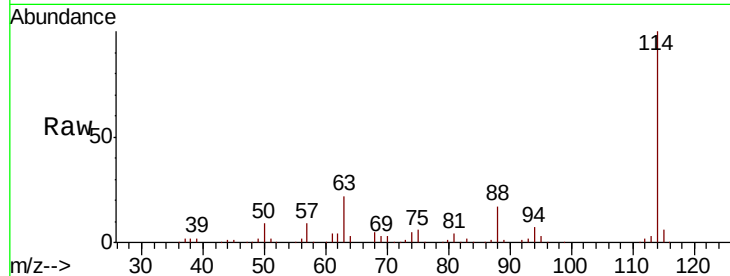




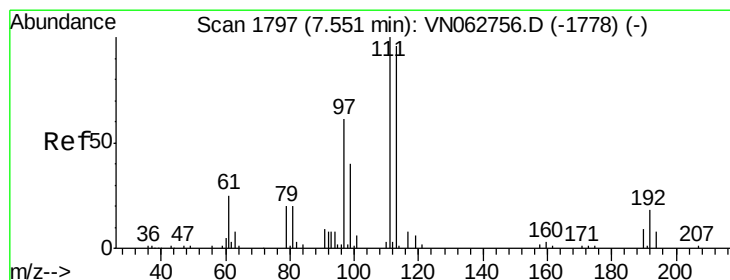
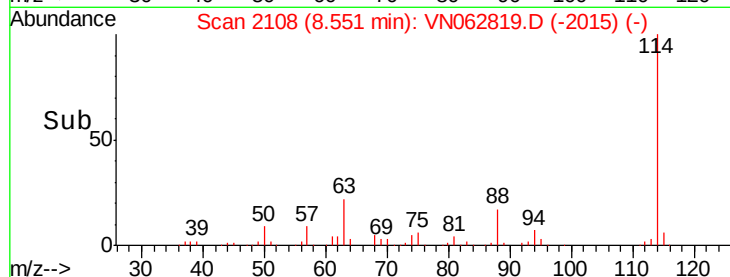
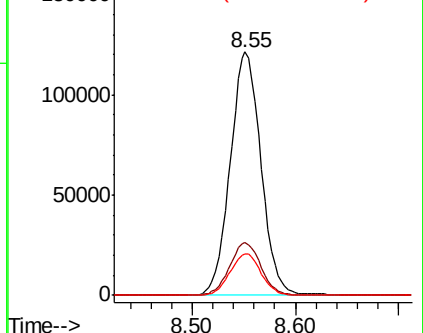
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062819.D
 Acq: 10 Aug 2020 19:50

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Tot Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	47.6
88	17.0	0.0	34.4

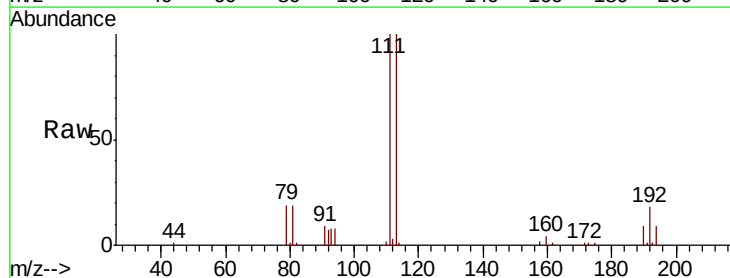


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

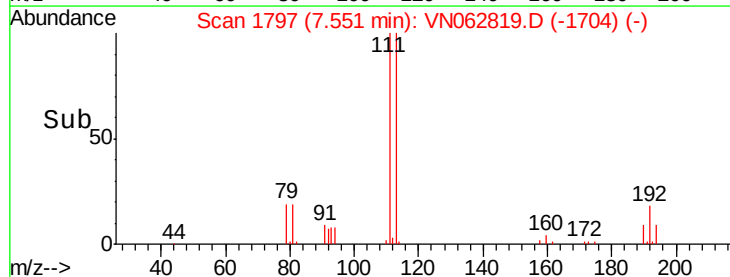
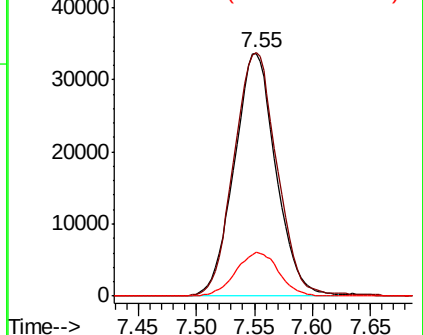


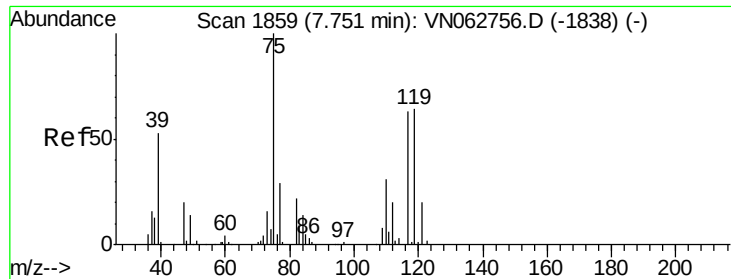
#35
 Dibromofluoromethane
 Concen: 48.767 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062819.D
 Acq: 10 Aug 2020 19:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	81.8	122.6
192	18.6	15.0	22.4



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

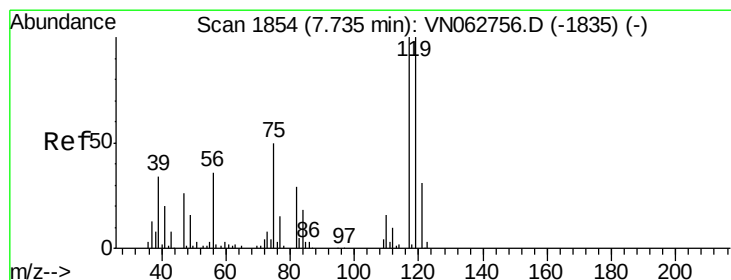
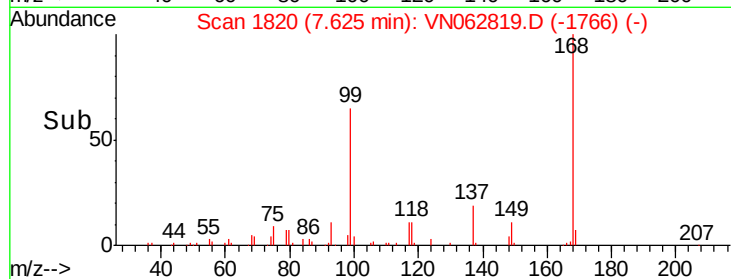
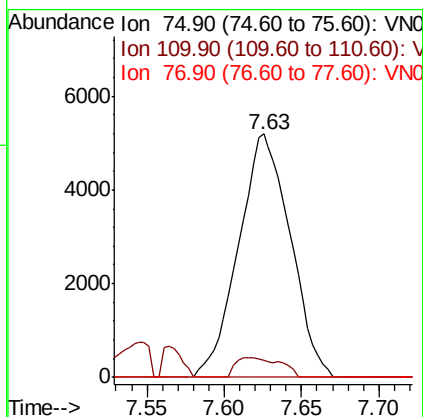
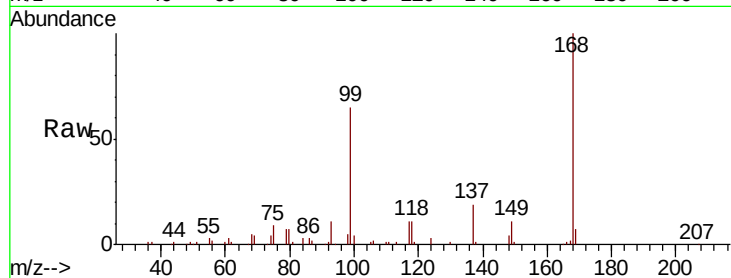




#36
 1,1-Dichloropropene
 Concen: 4.906 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062819.D
 Acq: 10 Aug 2020 19:50

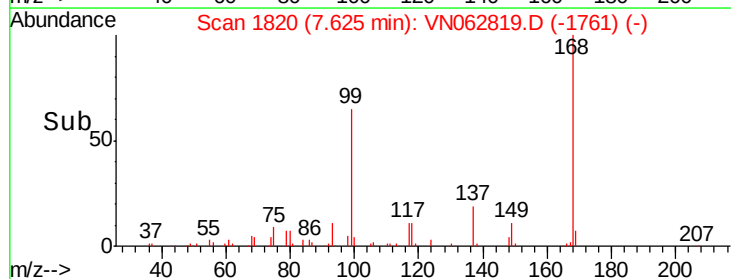
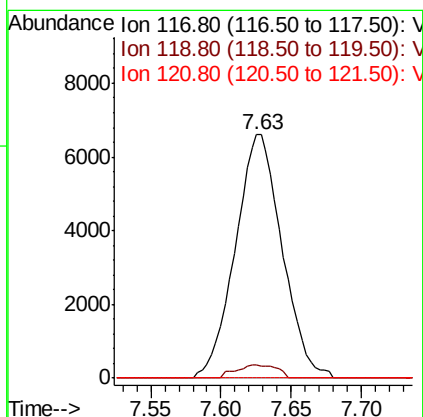
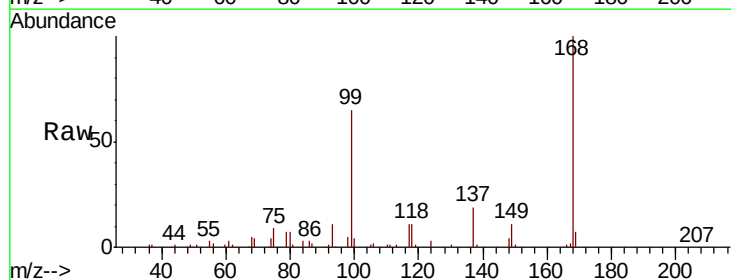
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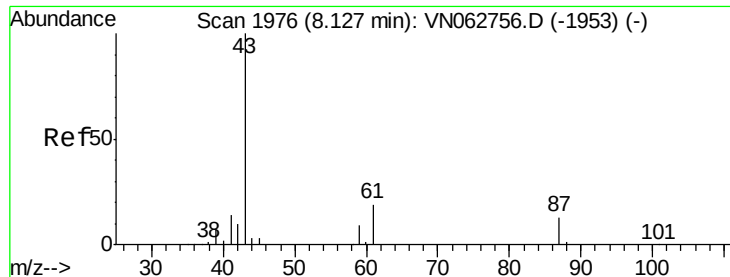
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.0	15.6	46.7#
77	0.0	24.1	36.1#



#38
 Carbon Tetrachloride
 Concen: 5.257 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062819.D
 Acq: 10 Aug 2020 19:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	79.4	119.2#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 6.544 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

OR-02-080720

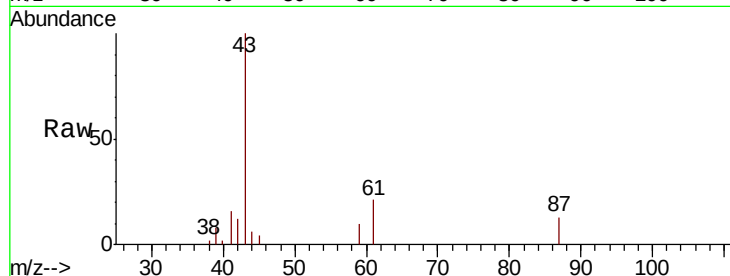
Tot Ion: 43 Resp: 27995

Ion Ratio Lower Upper

43 100

61 19.2 15.8 23.6

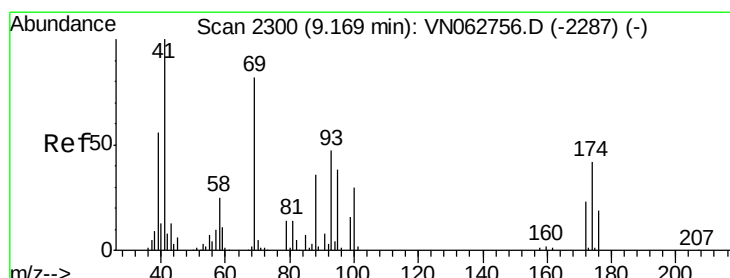
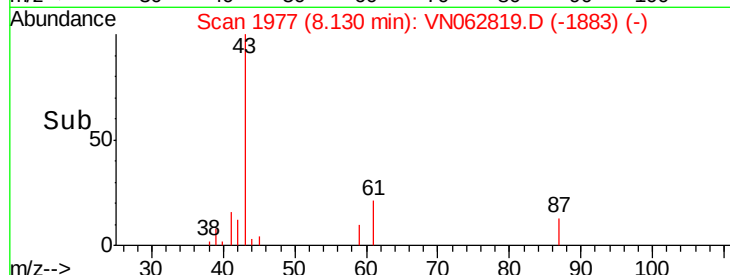
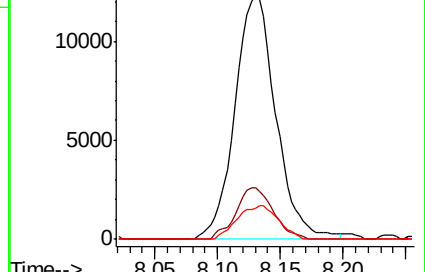
87 13.9 9.9 14.9



Abundance Ion 43.00 (42.70 to 43.70): VN062819.D (-1953) (-)

Ion 61.00 (60.70 to 61.70): VN062819.D (-1953) (-)

Ion 87.00 (86.70 to 87.70): VN062819.D (-1953) (-)



#48

Methyl methacrylate

Concen: 1.140 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

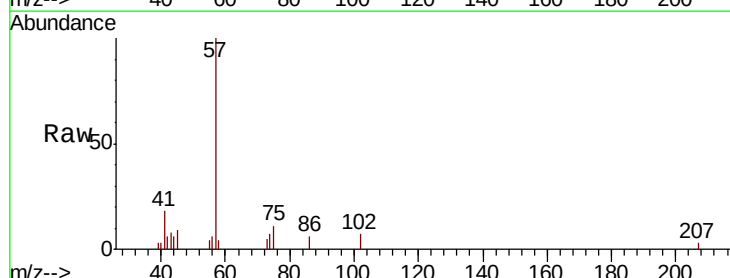
Tgt Ion: 41 Resp: 2398

Ion Ratio Lower Upper

41 100

69 0.0 67.4 101.2#

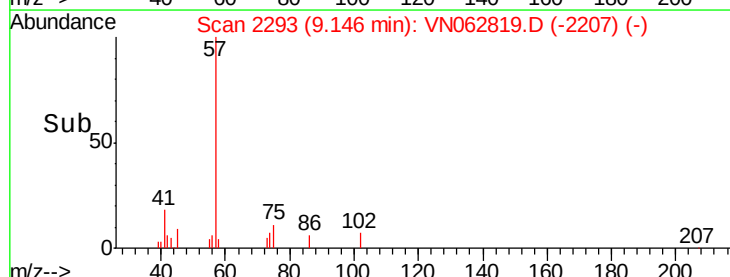
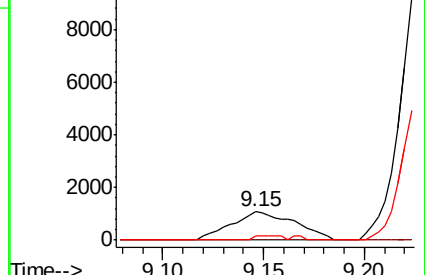
39 0.0 47.6 71.4#

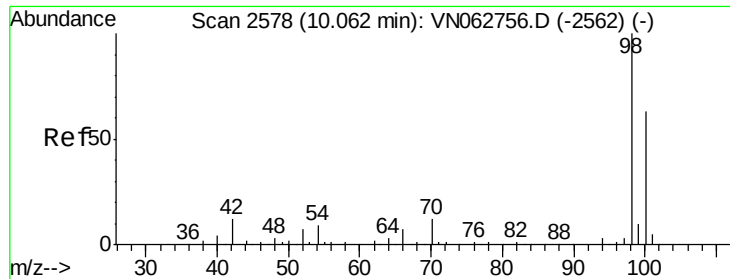


Abundance Ion 41.00 (40.70 to 41.70): VN062819.D (-2207) (-)

Ion 69.00 (68.70 to 69.70): VN062819.D (-2207) (-)

Ion 39.00 (38.70 to 39.70): VN062819.D (-2207) (-)





#50

Toluene-d8

Concen: 49.358 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

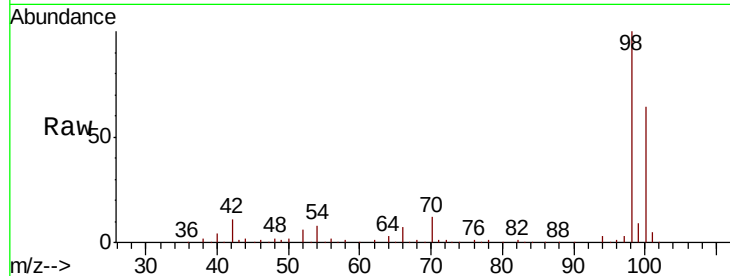
OR-02-080720

Tot Ion: 98 Resp: 332370

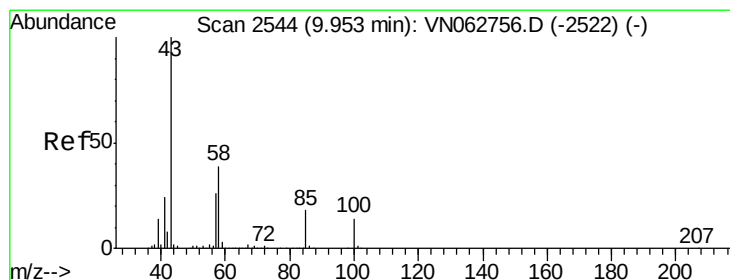
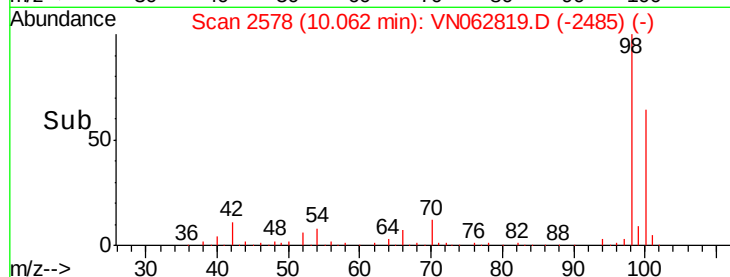
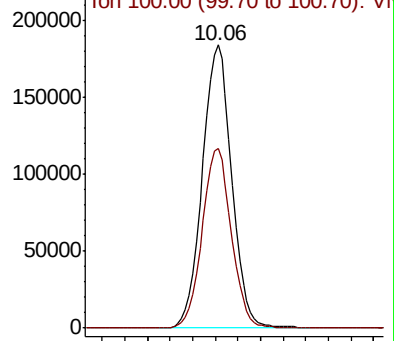
Ion Ratio Lower Upper

98 100

100 63.0 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN062756.D (-2562) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.875 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN062819.D

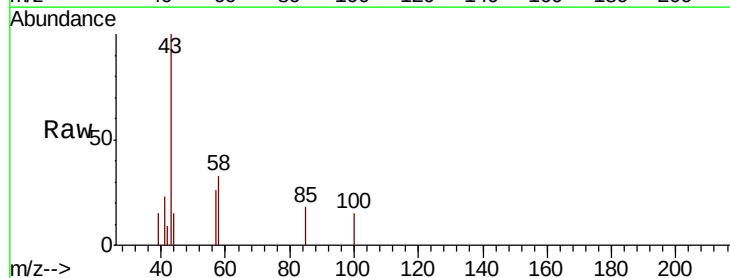
Acq: 10 Aug 2020 19:50

Tgt Ion: 43 Resp: 5190

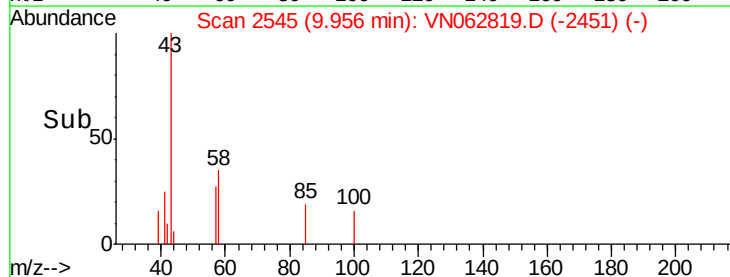
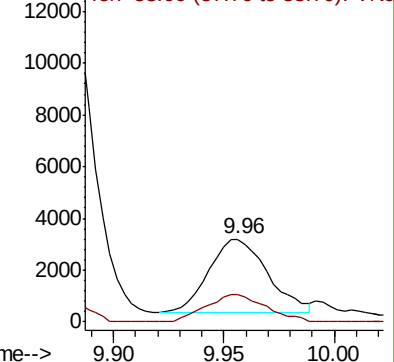
Ion Ratio Lower Upper

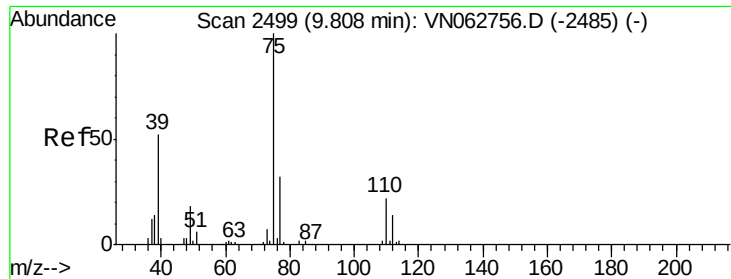
43 100

58 38.6 31.1 46.7



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-2522) (-)





#54

cis-1,3-Dichloropropene

Concen: 4.011 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

OR-02-080720

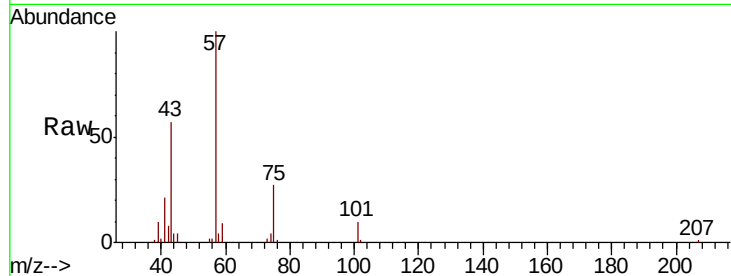
Tot Ion: 75 Resp: 12926

Ion Ratio Lower Upper

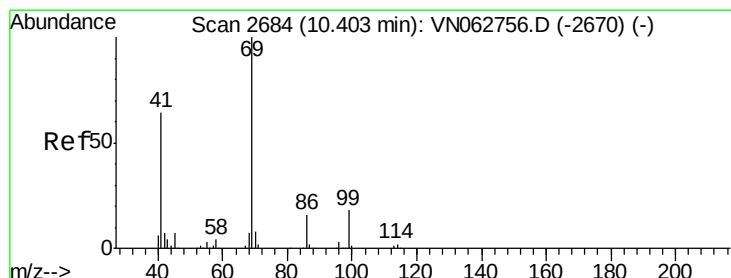
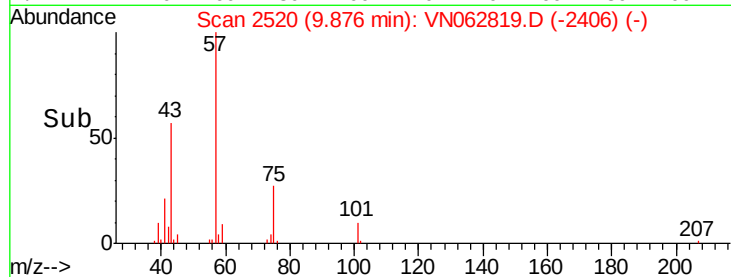
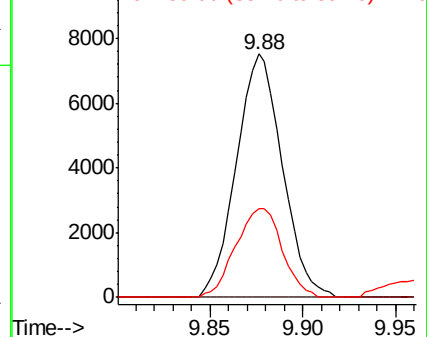
75 100

77 0.0 25.5 38.3#

39 36.3 41.9 62.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.217 ug/l

RT: 10.52 min Scan# 2720

Delta R.T. 0.12 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

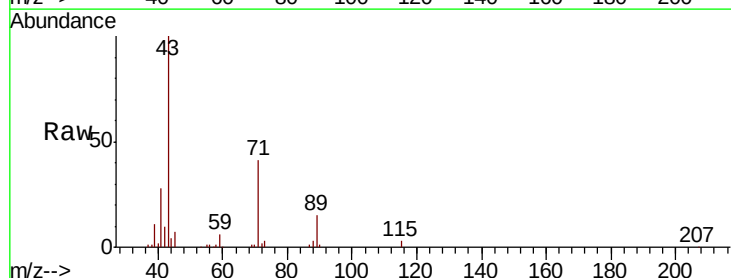
Tgt Ion: 69 Resp: 632

Ion Ratio Lower Upper

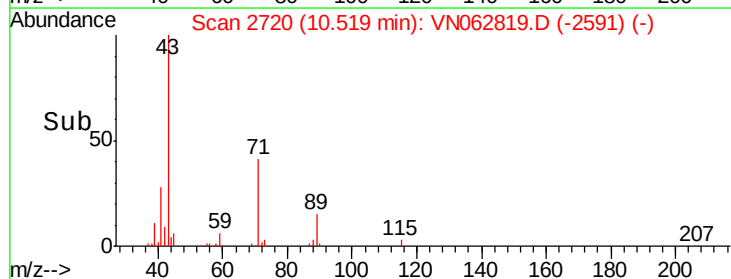
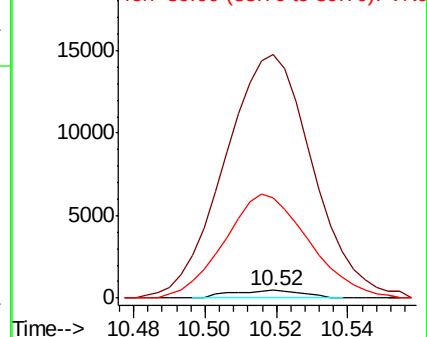
69 100

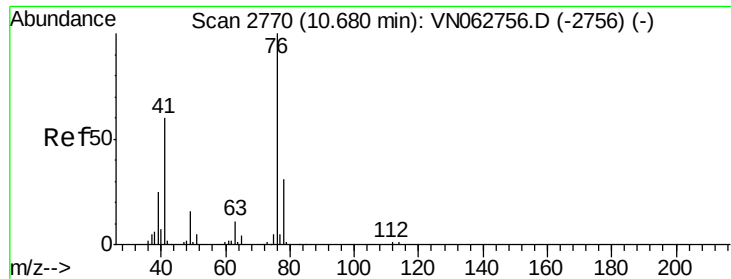
41 4002.5 52.2 78.2#

39 1642.1 30.9 46.3#



Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.509 ug/l

RT: 10.74 min Scan# 2789

Delta R.T. 0.06 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

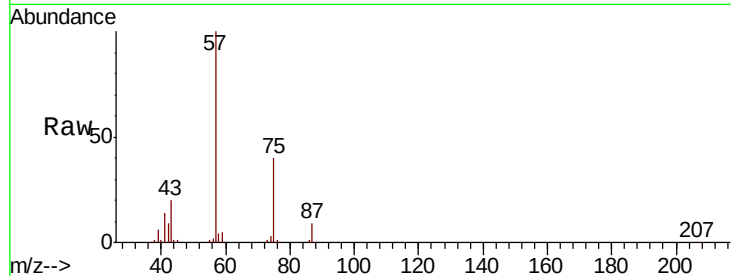
OR-02-080720

Tot Ion: 76 Resp: 1670

Ion Ratio Lower Upper

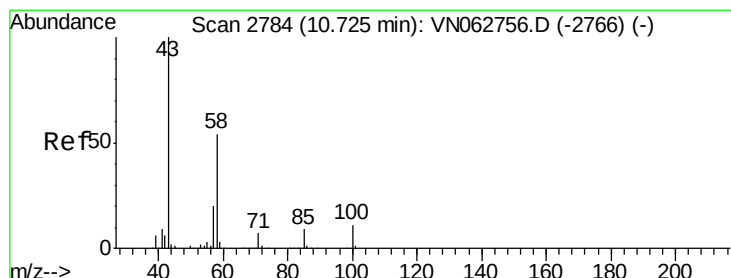
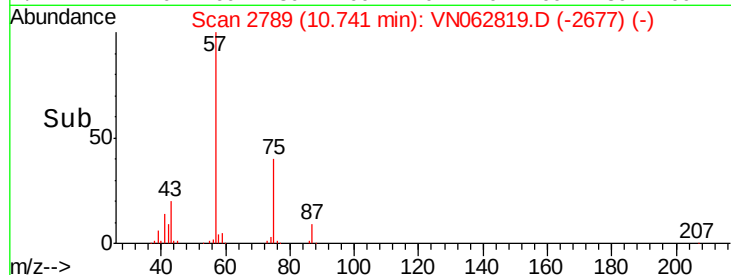
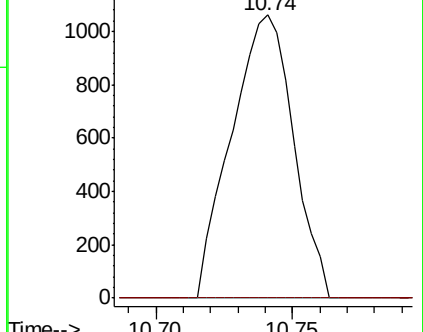
76 100

78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 12.410 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN062819.D

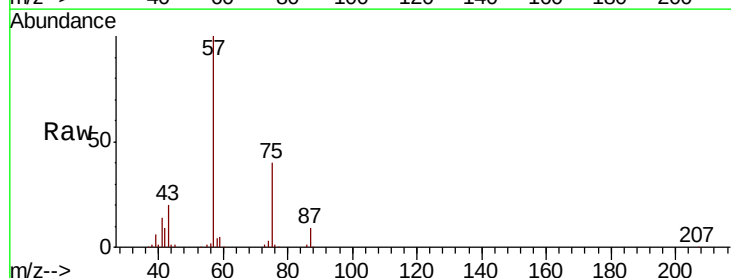
Acq: 10 Aug 2020 19:50

Tgt Ion: 43 Resp: 25622

Ion Ratio Lower Upper

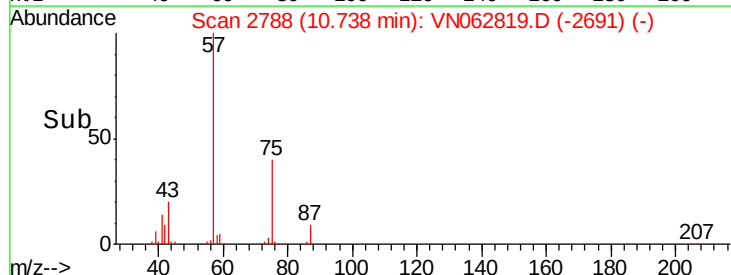
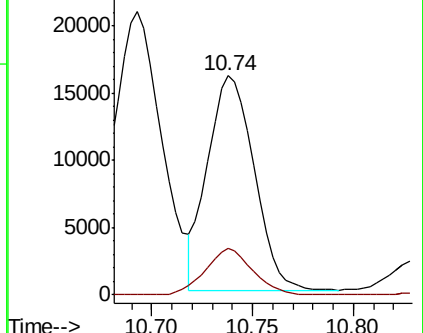
43 100

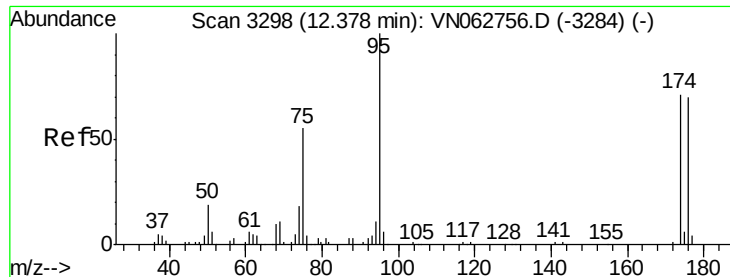
58 21.6 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 48.112 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

OR-02-080720

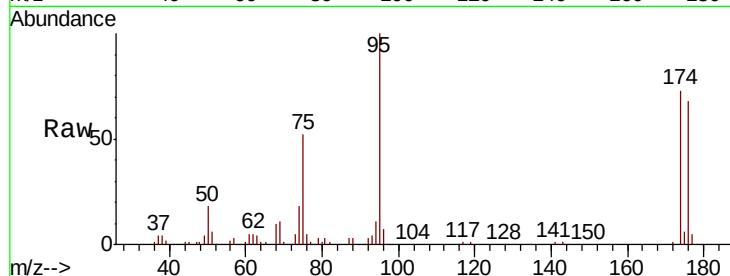
Tot Ion: 95 Resp: 122433

Ion Ratio Lower Upper

95 100

174 74.4 0.0 144.8

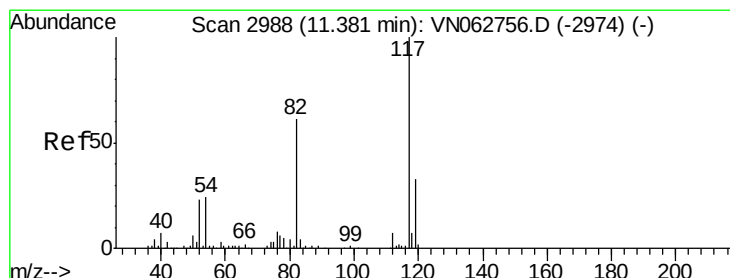
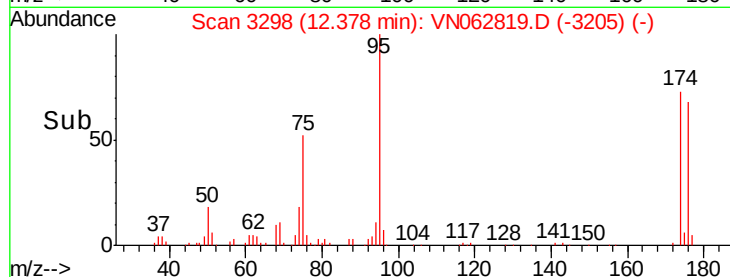
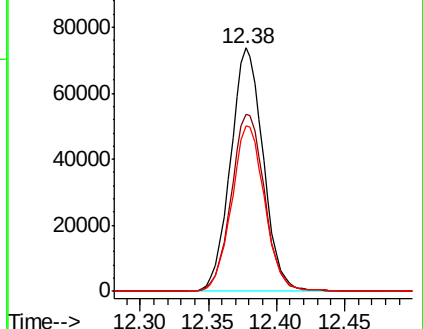
176 68.7 0.0 142.2



Abundance Ion 94.90 (94.60 to 95.60): VN062819.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN062819.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062819.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

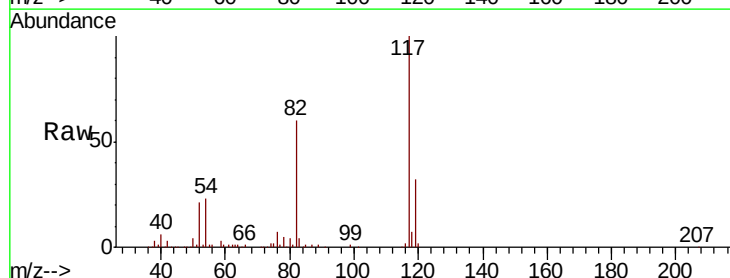
Tgt Ion: 117 Resp: 261062

Ion Ratio Lower Upper

117 100

82 60.3 49.0 73.4

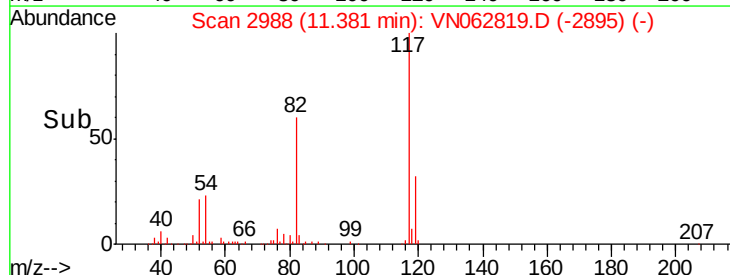
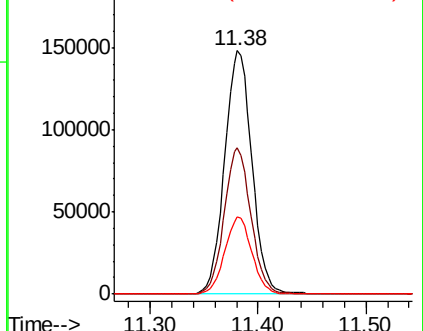
119 31.8 26.2 39.2

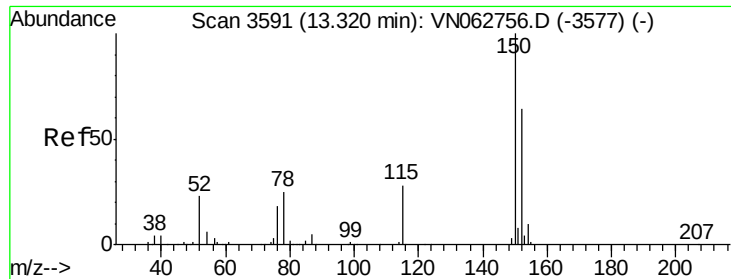


Abundance Ion 116.90 (116.60 to 117.60): VN062819.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062819.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062819.D (-2895) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

OR-02-080720

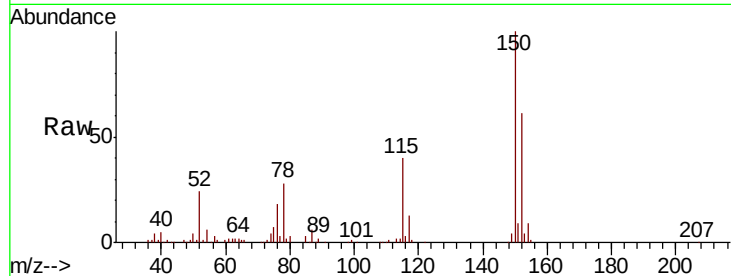
Tot Ion:152 Resp: 92330

Ion Ratio Lower Upper

152 100

115 63.7 31.6 94.8

150 159.7 0.0 349.2

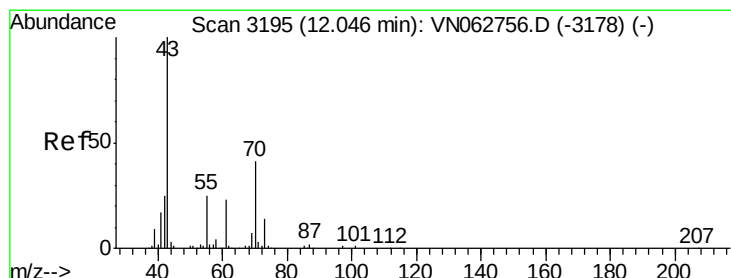
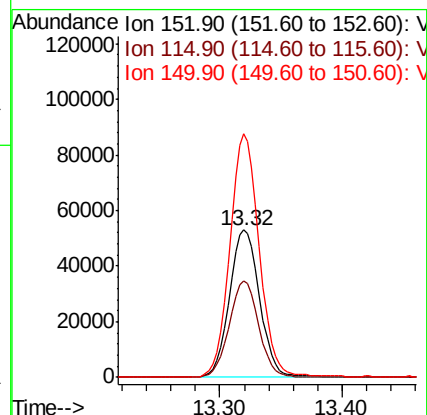
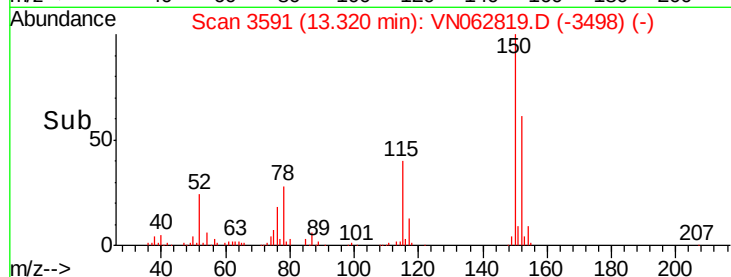


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.562 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

Tgt Ion: 43 Resp: 1582

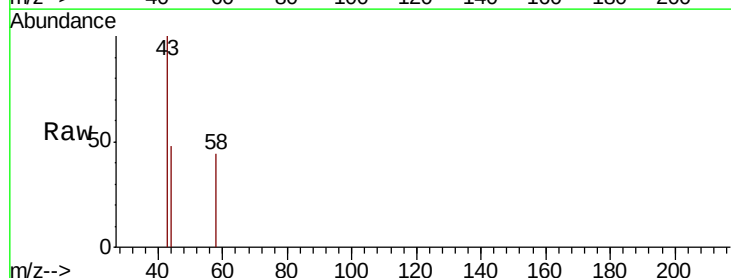
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 0.0 20.2 30.2#

61 0.0 18.2 27.4#



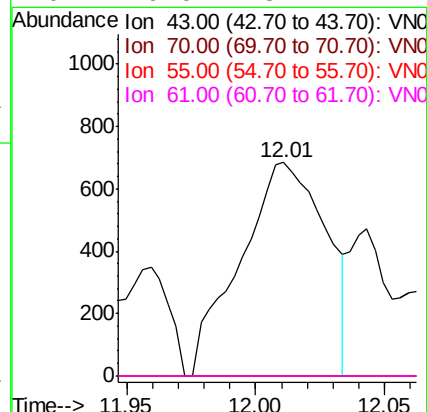
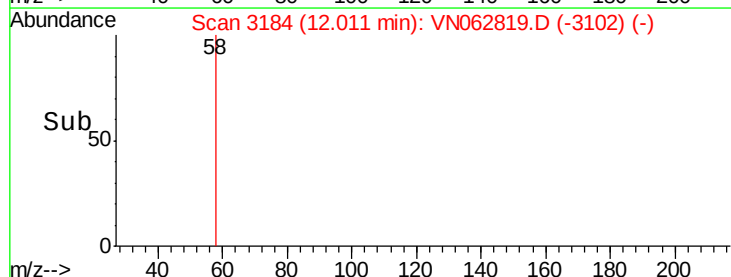
Abundance

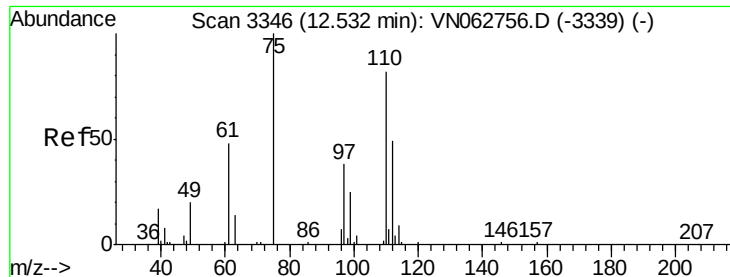
Ion 43.00 (42.70 to 43.70): V

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: 26.019 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

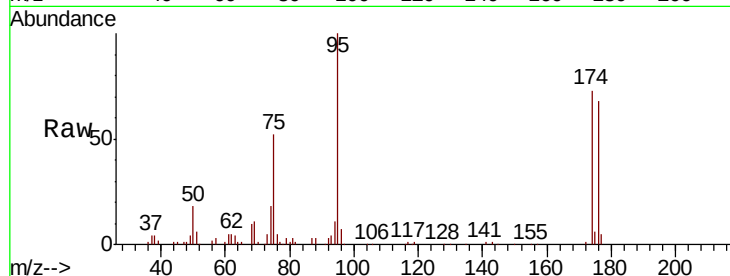
OR-02-080720

Tot Ion: 75 Resp: 64788

Ion Ratio Lower Upper

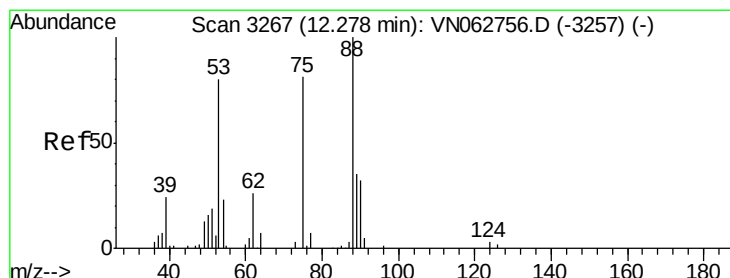
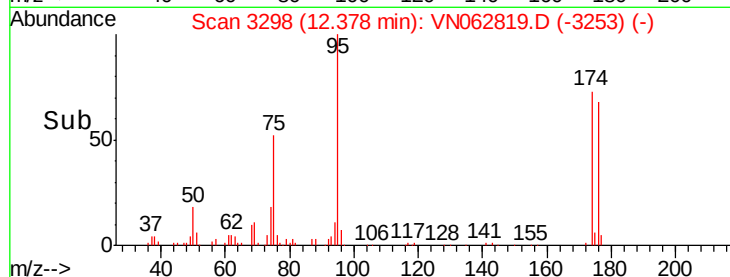
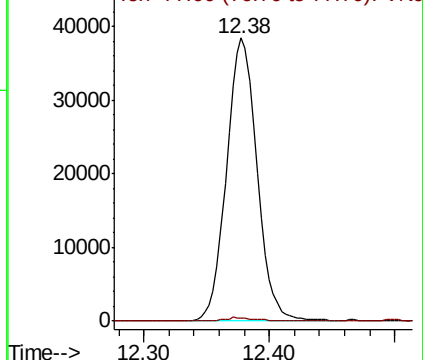
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 79.428 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062819.D

Acq: 10 Aug 2020 19:50

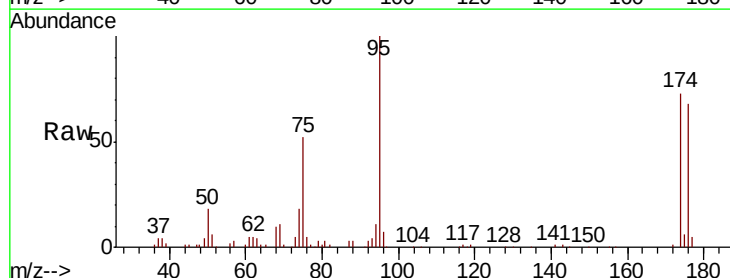
Tgt Ion: 75 Resp: 64788

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

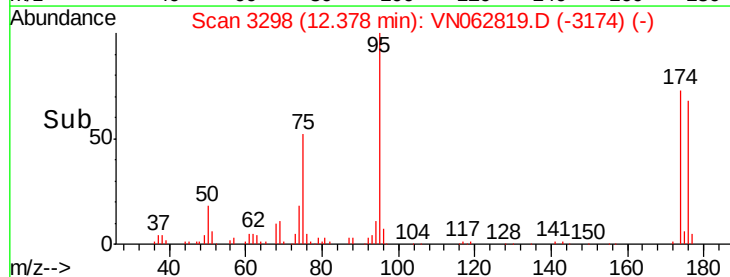
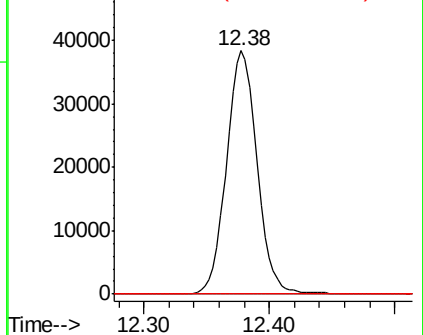
89 0.0 36.2 54.2#

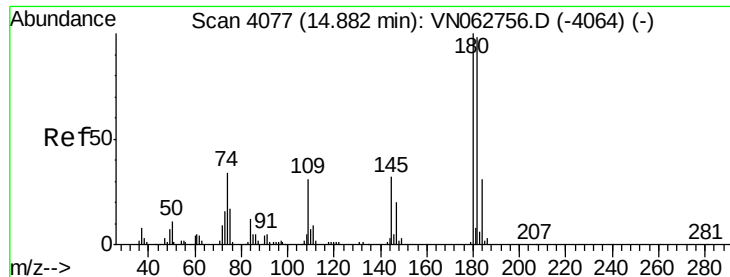


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

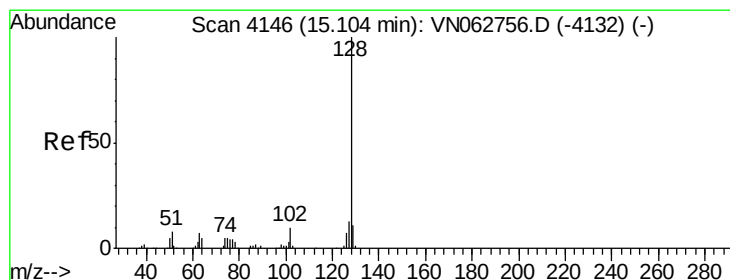
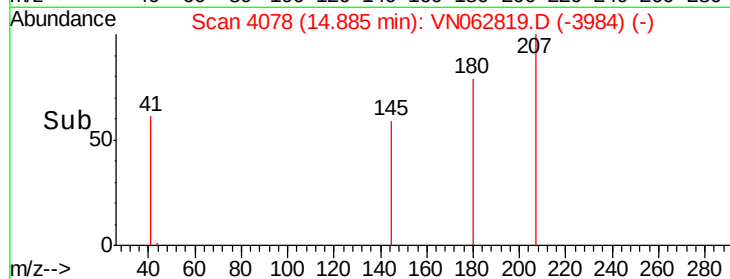
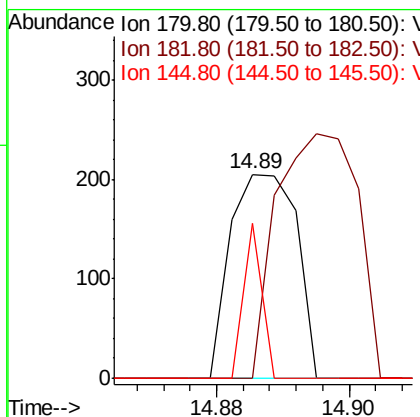
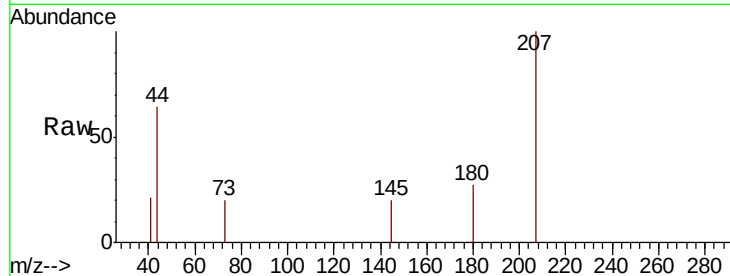




#93
 1,2,4-Trichlorobenzene
 Concen: 3.407 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN062819.D
 Acq: 10 Aug 2020 19:50

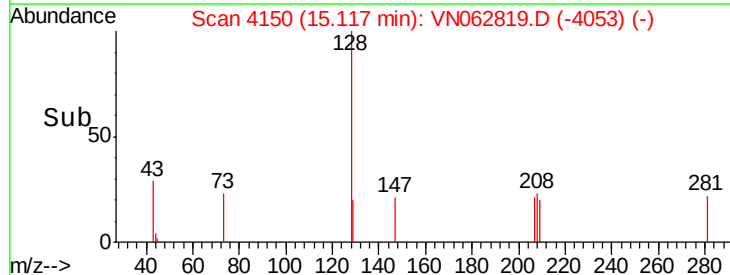
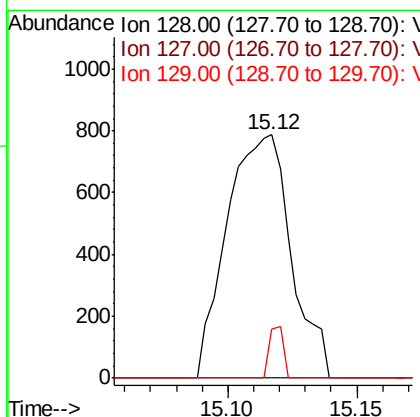
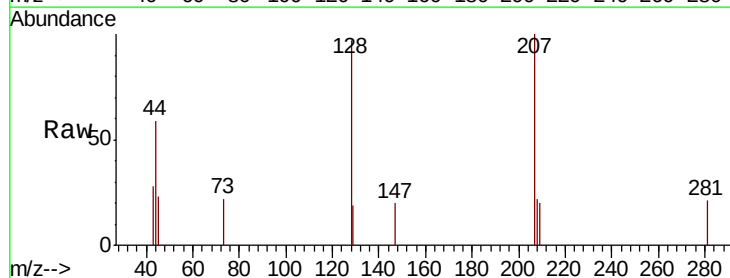
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-080720

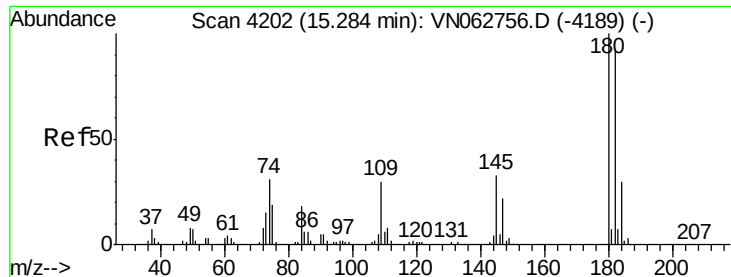
Tot Ion:180 Resp: 142
 Ion Ratio Lower Upper
 180 100
 182 147.2 49.1 147.4
 145 21.1 16.3 48.8



#95
 Naphthalene
 Concen: 4.005 ug/l
 RT: 15.12 min Scan# 4150
 Delta R.T. 0.01 min
 Lab File: VN062819.D
 Acq: 10 Aug 2020 19:50

Tgt Ion:128 Resp: 1361
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.8 16.2#
 129 4.6 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.879 ug/l
 RT: 15.28 min Scan# 4202
 Delta R.T. 0.00 min
 Lab File: VN062819.D
 Acq: 10 Aug 2020 19:50

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-080720

Tot Ion	Ratio	Lower	Upper
180	100		
182	84.8	47.9	143.6
145	0.0	17.3	51.7

