

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081320\
 Data File : VN062921.D
 Acq On : 13 Aug 2020 19:43
 Operator : JC/MD
 Sample : PB130936ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130936ZHE#04

Quant Time: Aug 14 05:10:54 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	124004	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	225158	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	231399	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	85434	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	107492	52.42	ug/l	0.00
Spiked Amount			Recovery	=	104.84%	
35) Dibromofluoromethane	7.55	113	74957	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
50) Toluene-d8	10.06	98	306807	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	
62) 4-Bromofluorobenzene	12.38	95	108659	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	

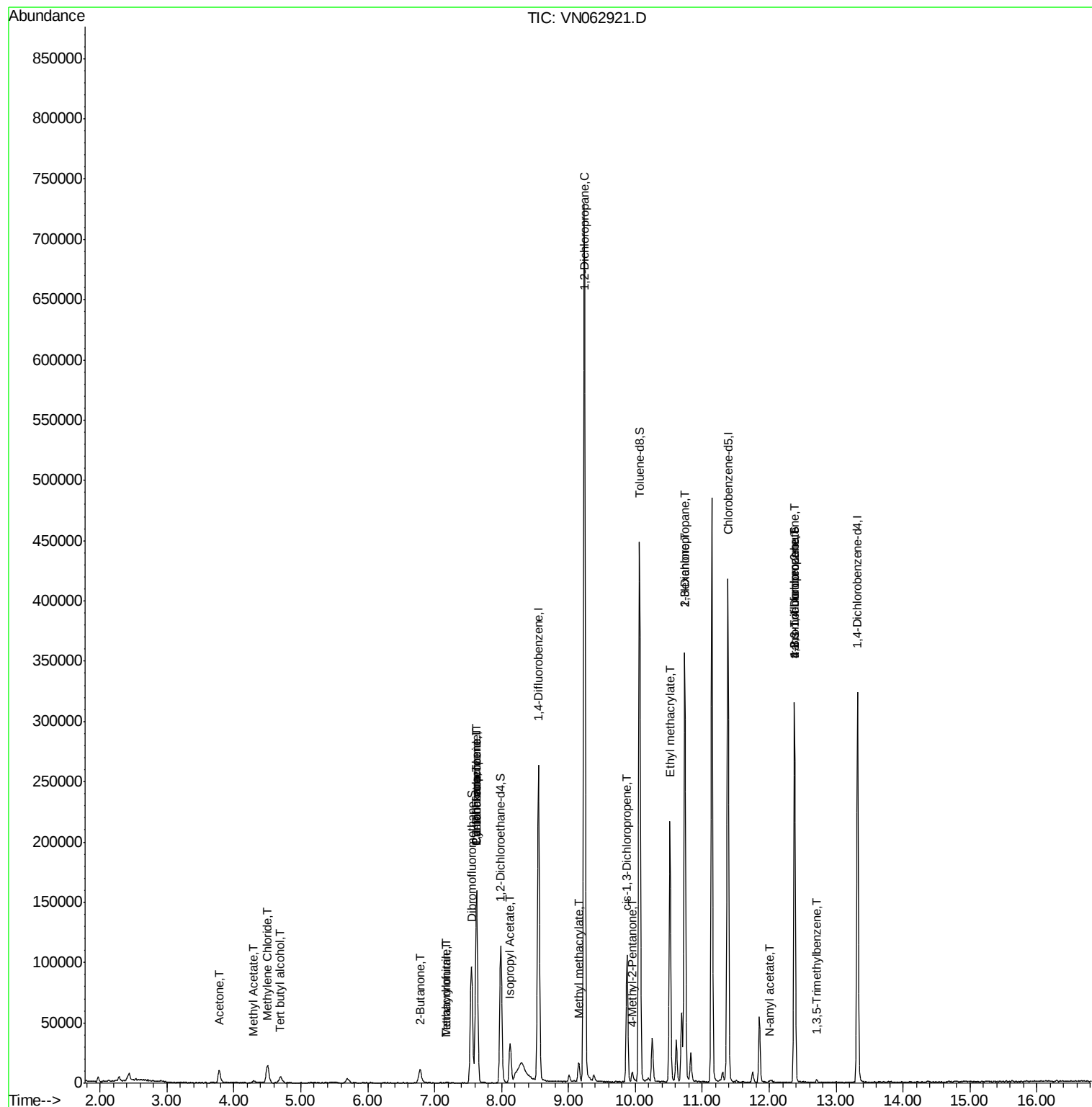
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.69	59	5076	15.103	ug/l #	72
16) Acetone	3.78	43	17767	23.978	ug/l	99
18) Methyl Acetate	4.29	43	3194	0.709	ug/l #	65
20) Methylene Chloride	4.50	84	11263	7.662	ug/l	93
25) 2-Butanone	6.78	43	1555	1.482	ug/l	91
29) Tetrahydrofuran	7.16	42	229	0.336	ug/l #	54
31) Cyclohexane	7.63	56	2722	1.095	ug/l #	25
36) 1,1-Dichloropropene	7.63	75	10953	4.996	ug/l #	50
38) Carbon Tetrachloride	7.63	117	13514	5.212	ug/l #	17
41) Methacrylonitrile	7.17	41	245	0.237	ug/l #	6
43) Isopropyl Acetate	8.13	43	37941	9.932	ug/l	97
45) 1,2-Dichloropropane	9.24	63	748	0.422	ug/l #	45
48) Methyl methacrylate	9.15	41	2162	1.151	ug/l #	13
51) 4-Methyl-2-Pentanone	9.95	43	5521	2.234	ug/l	100
54) cis-1,3-Dichloropropene	9.88	75	18037	6.268	ug/l #	60
56) Ethyl methacrylate	10.52	69	1255	0.483	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3548	1.210	ug/l #	43
59) 2-Hexanone	10.74	43	51355	27.855	ug/l #	53
74) N-amyl acetate	12.01	43	1279	0.491	ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	57255	24.850	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	1781	0.319	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.38	75	57255	75.859	ug/l #	10

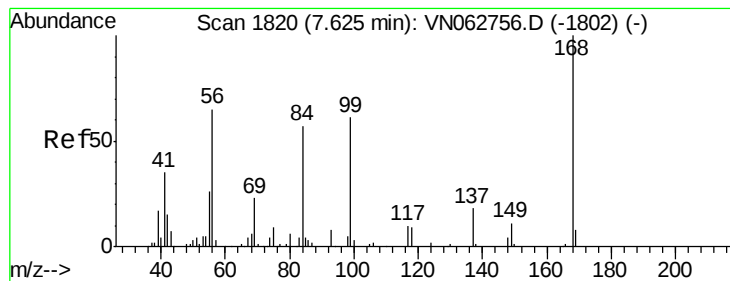
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN081320\
Data File : VN062921.D
Acq On : 13 Aug 2020 19:43
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Sample : PB130936ZHE#04
Misc : 5.00mL/MSVOA N/WATER
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Instrument :
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ClientSampleId :
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Quant Time: Aug 14 05:10:54 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
Quant Title : SW846 8260
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# 1820

Delta R.T. 0.00 min

Lab File: VN062921.D

Acq: 13 Aug 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

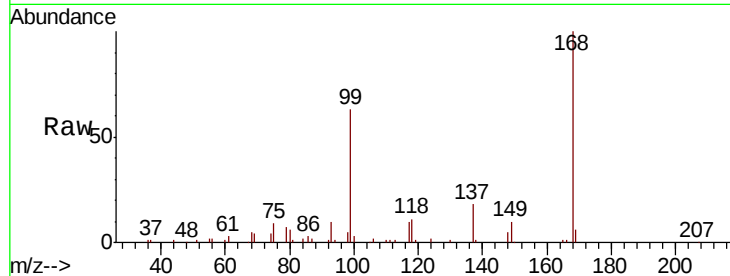
PB130936ZHE#04

Tot Ion:168 Resp: 124004

Ion Ratio Lower Upper

168 100

99 63.1 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

60000

50000

40000

30000

20000

10000

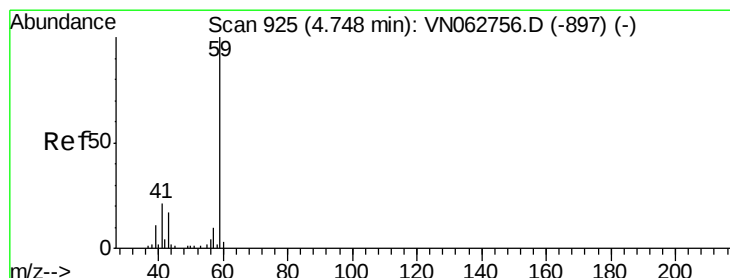
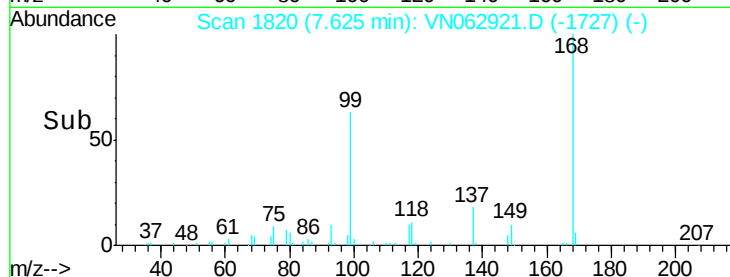
0

7.63

7.60

7.70

Time-->



#11

Tert butyl alcohol

Concen: 15.103 ug/l

RT: 4.69 min Scan# 908

Delta R.T. -0.05 min

Lab File: VN062921.D

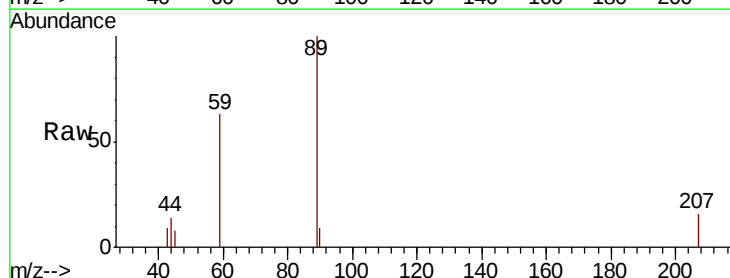
Acq: 13 Aug 2020 19:43

Tgt Ion: 59 Resp: 5076

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

1500

1000

500

0

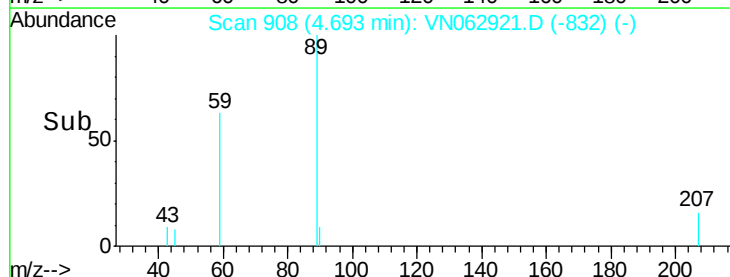
4.69

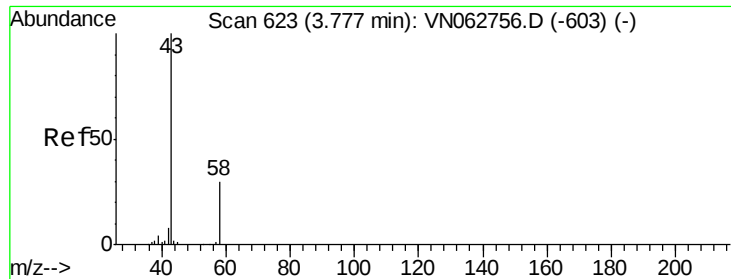
4.60

4.75

4.80

Time-->





#16

Acetone

Concen: 23.978 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN062921.D

Acq: 13 Aug 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

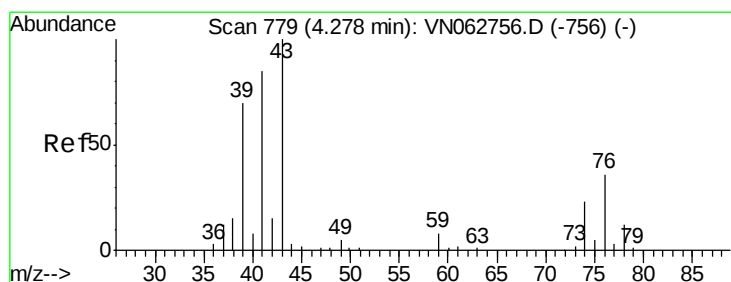
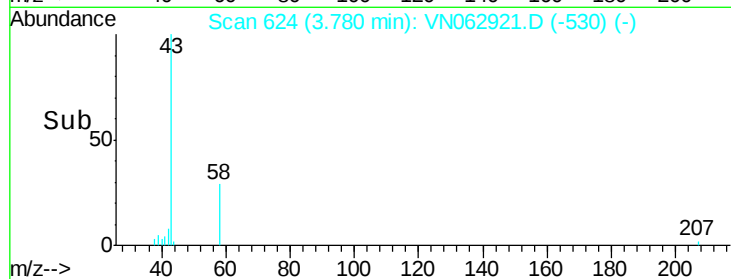
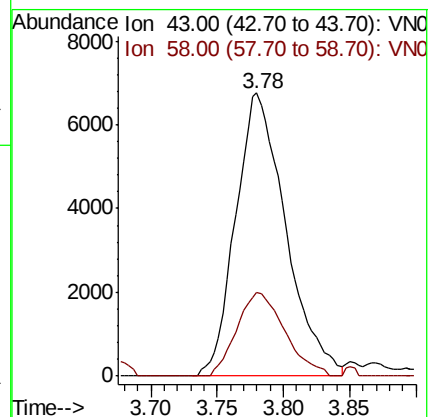
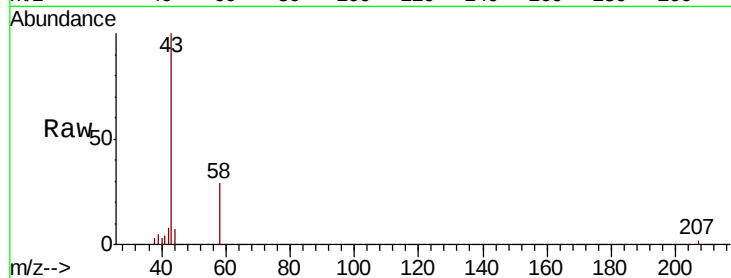
PB130936ZHE#04

Tot Ion: 43 Resp: 17767

Ion Ratio Lower Upper

43 100

58 29.5 24.1 36.1



#18

Methyl Acetate

Concen: 0.709 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.01 min

Lab File: VN062921.D

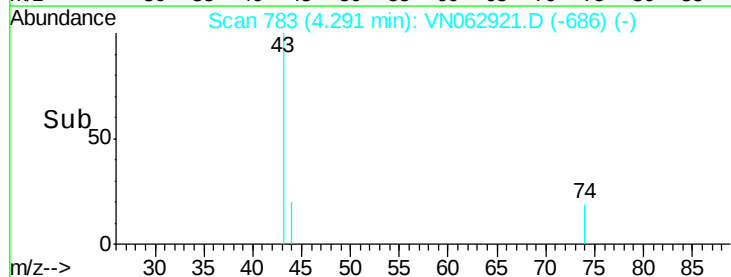
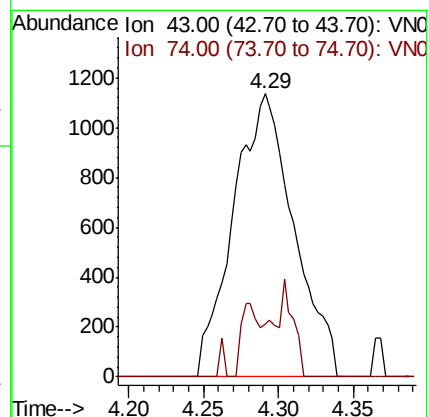
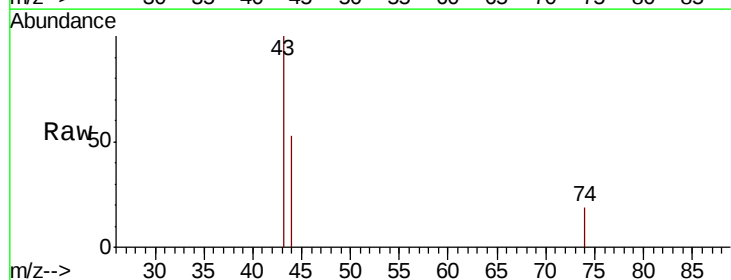
Acq: 13 Aug 2020 19:43

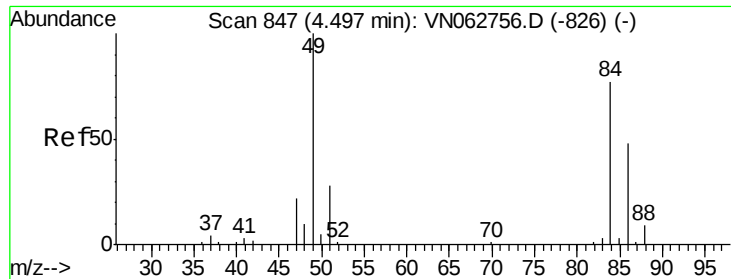
Tgt Ion: 43 Resp: 3194

Ion Ratio Lower Upper

43 100

74 6.3 18.6 28.0#

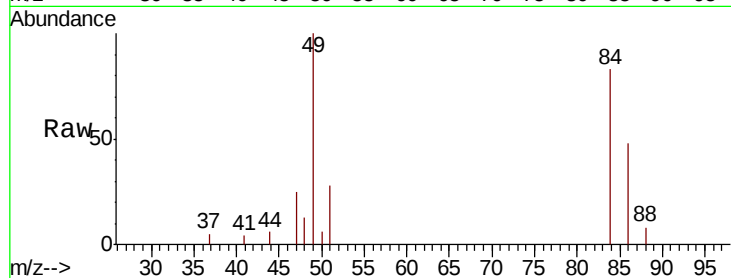




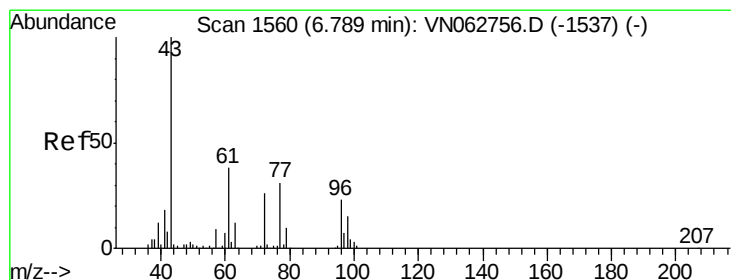
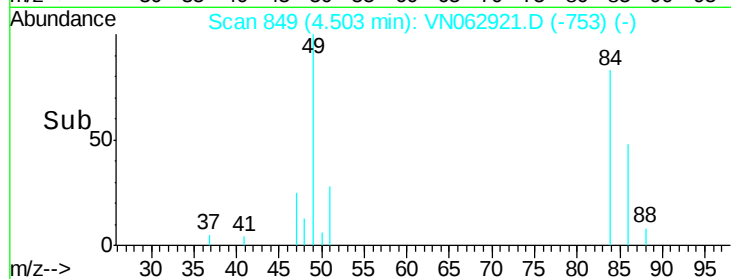
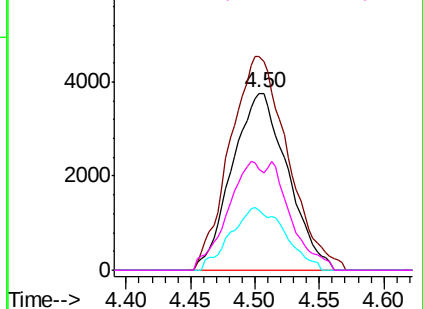
#20
Methvlene Chloride
Concen: 7.662 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.01 min
Lab File: VN062921.D
Acq: 13 Aug 2020 19:43

Instrument :
MSVOA_N
ClientSampleId :
PB130936ZHE#04

Tot Ion:	84	Resp:	11263
Ion	Ratio	Lower	Upper
84	100		
49	120.5	103.4	155.2
51	34.1	29.3	43.9
86	57.4	49.9	74.9

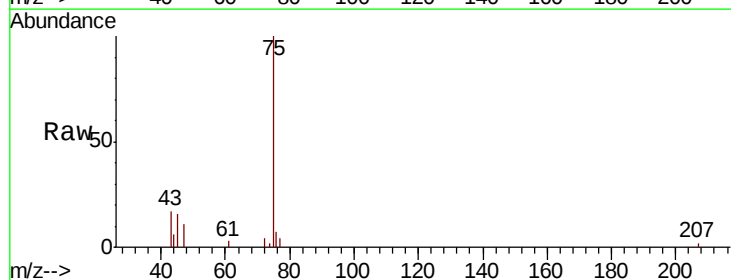


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

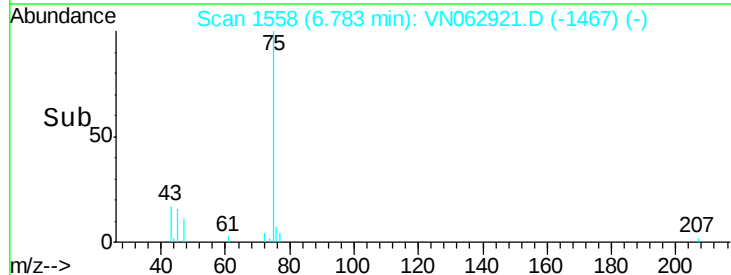
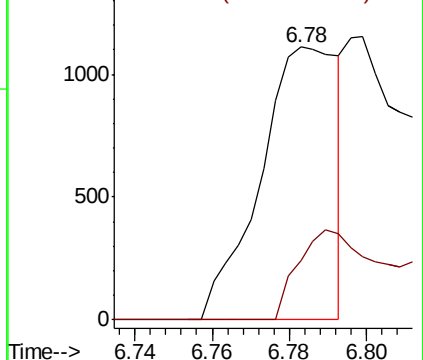


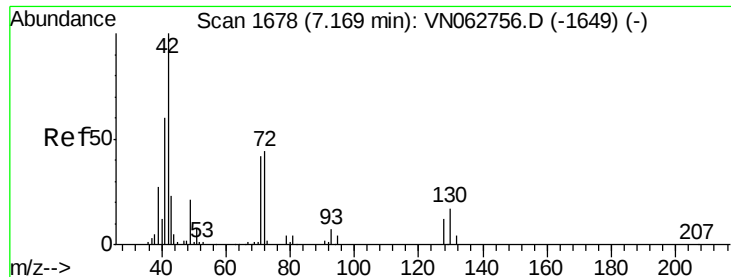
#25
2-Butanone
Concen: 1.482 ug/l
RT: 6.78 min Scan# 1558
Delta R.T. -0.01 min
Lab File: VN062921.D
Acq: 13 Aug 2020 19:43

Tgt Ion:	43	Resp:	1555
Ion	Ratio	Lower	Upper
43	100		
72	22.0	21.1	31.7



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

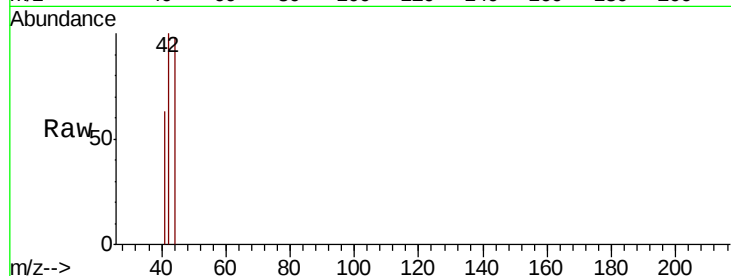




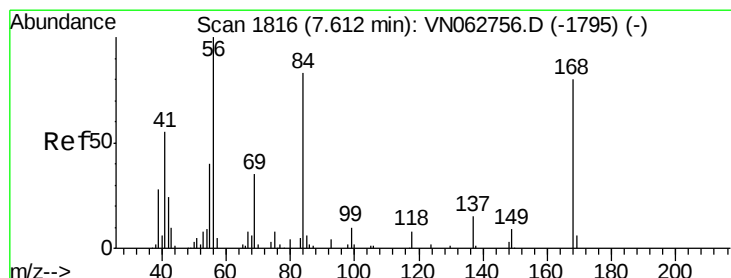
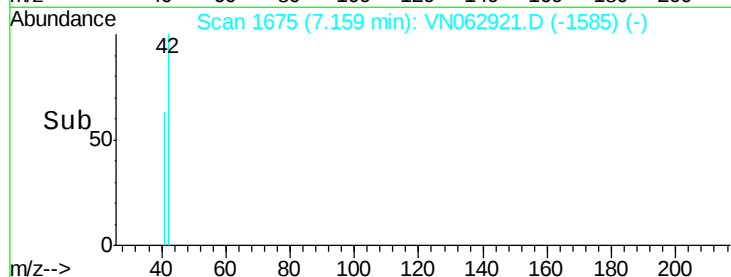
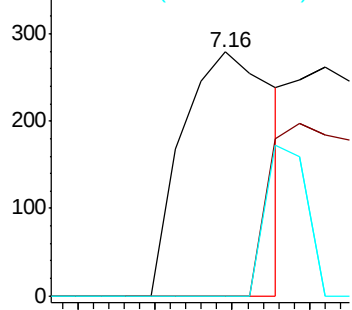
#29
Tetrahydrofuran
Concen: 0.336 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. -0.01 min
Lab File: VN062921.D
Acq: 13 Aug 2020 19:43

Instrument :
MSVOA_N
ClientSampleId :
PB130936ZHE#04

Tot Ion: 42 Resp: 229
Ion Ratio Lower Upper
42 100
72 88.6 35.0 52.4#
71 27.9 33.2 49.8#

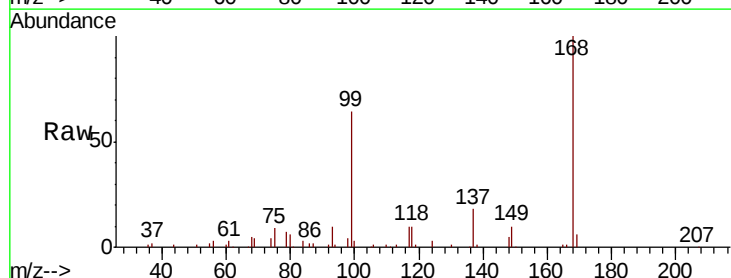


Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO

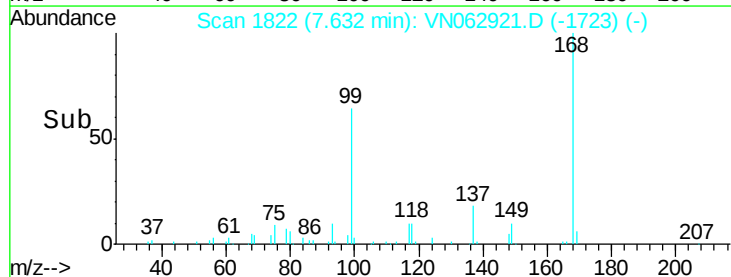
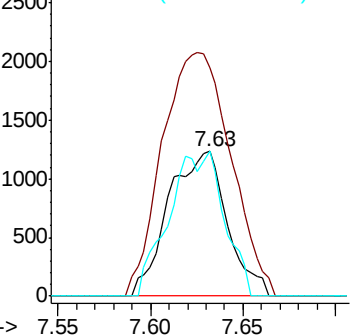


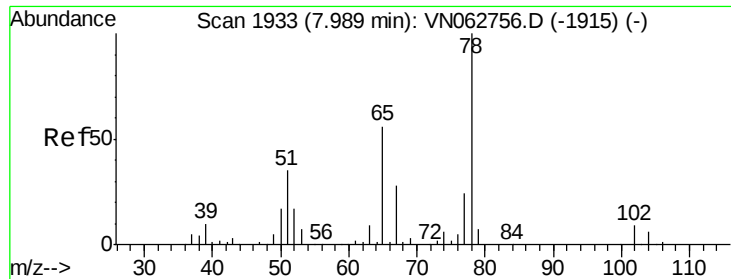
#31
Cyclohexane
Concen: 1.095 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. 0.02 min
Lab File: VN062921.D
Acq: 13 Aug 2020 19:43

Tgt Ion: 56 Resp: 2722
Ion Ratio Lower Upper
56 100
69 157.2 28.1 42.1#
84 100.4 66.8 100.2#



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





#33

1,2-Dichloroethane-d4

Concen: 52.419 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062921.D

Acq: 13 Aug 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

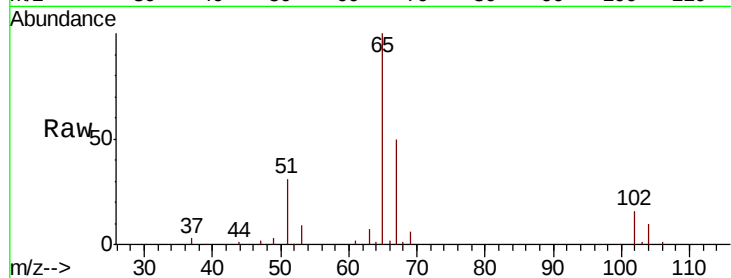
PB130936ZHE#04

Tot Ion: 65 Resp: 107492

Ion Ratio Lower Upper

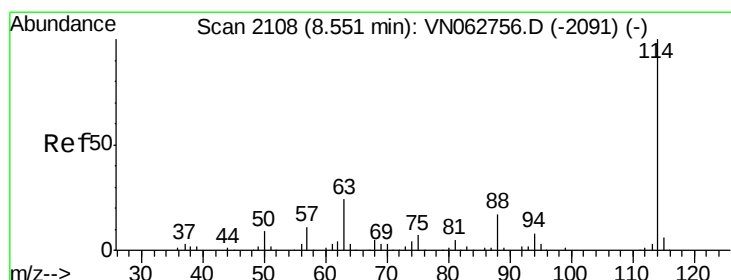
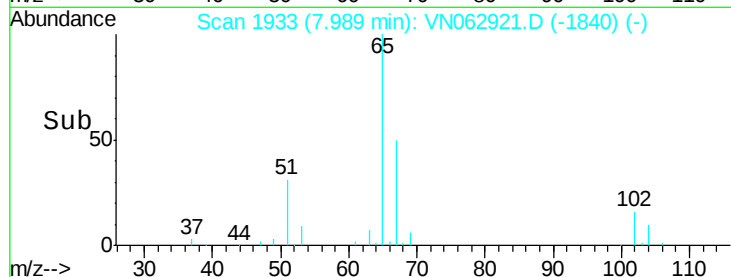
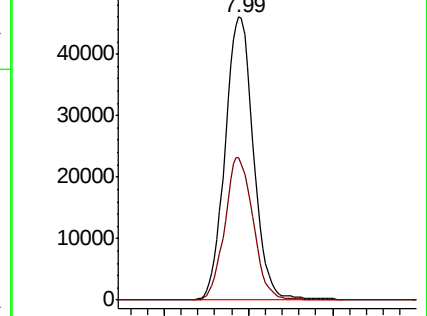
65 100

67 50.2 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN062921.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN062921.D (-1840) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062921.D

Acq: 13 Aug 2020 19:43

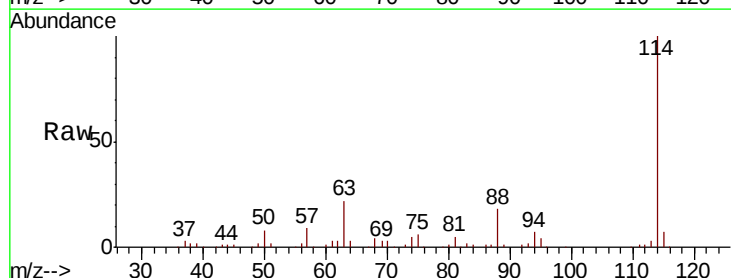
Tgt Ion: 114 Resp: 225158

Ion Ratio Lower Upper

114 100

63 22.3 0.0 47.6

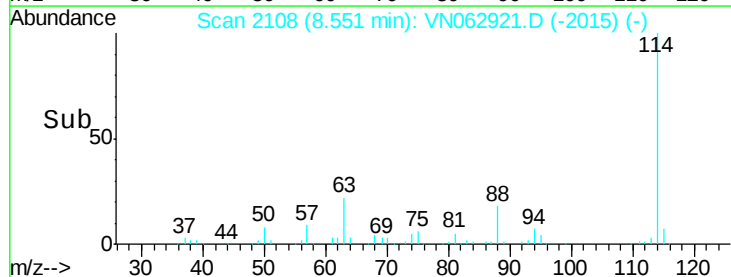
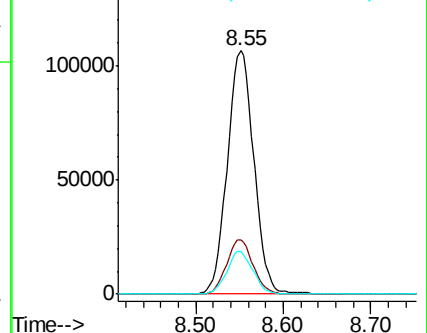
88 17.6 0.0 34.4

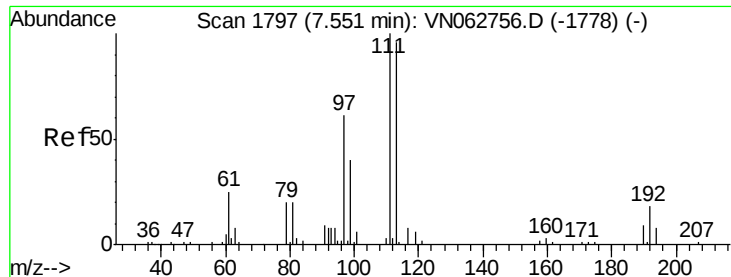


Abundance Ion 113.90 (113.60 to 114.60): VN062921.D (-2015) (-)

Ion 63.00 (62.70 to 63.70): VN062921.D (-2015) (-)

Ion 87.90 (87.60 to 88.60): VN062921.D (-2015) (-)

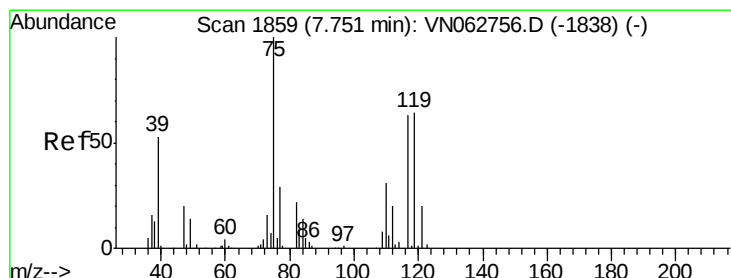
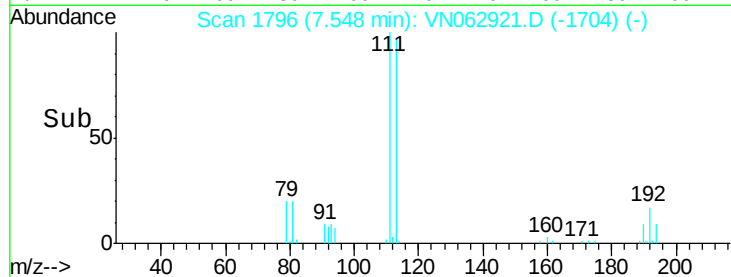
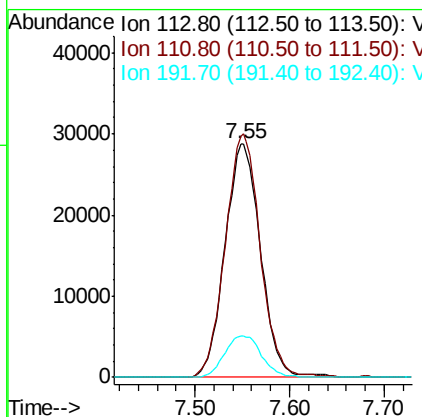
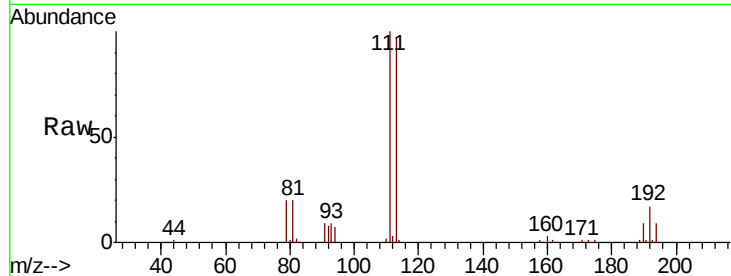




#35
Dibromofluoromethane
Concen: 48.667 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN062921.D
Acq: 13 Aug 2020 19:43

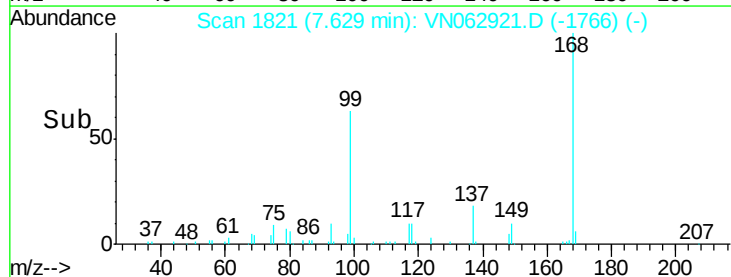
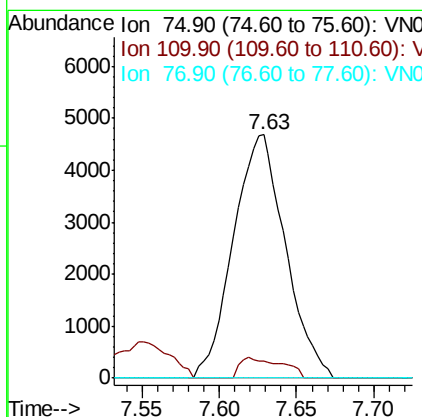
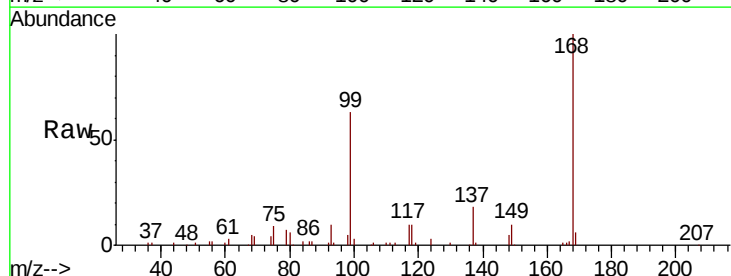
Instrument :
MSVOA_N
ClientSampleId :
PB130936ZHE#04

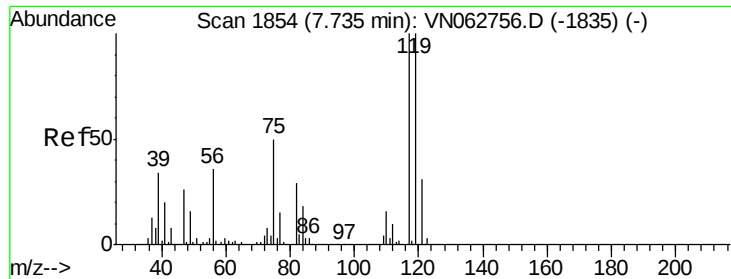
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.6
192	18.5	15.0	22.4



#36
1,1-Dichloropropene
Concen: 4.996 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.12 min
Lab File: VN062921.D
Acq: 13 Aug 2020 19:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.7	15.6	46.7#
77	0.0	24.1	36.1#





#38

Carbon Tetrachloride

Concen: 5.212 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.11 min

Lab File: VN062921.D

Acq: 13 Aug 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

PB130936ZHE#04

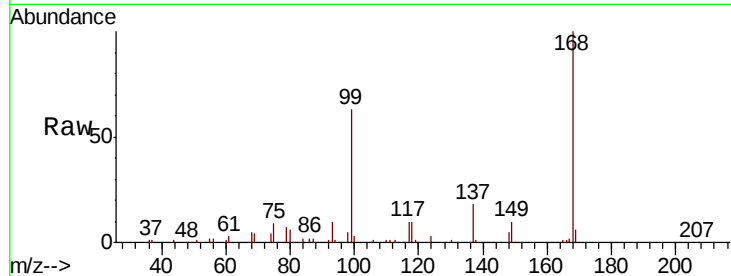
Tot Ion:117 Resp: 13514

Ion Ratio Lower Upper

117 100

119 7.8 79.4 119.2#

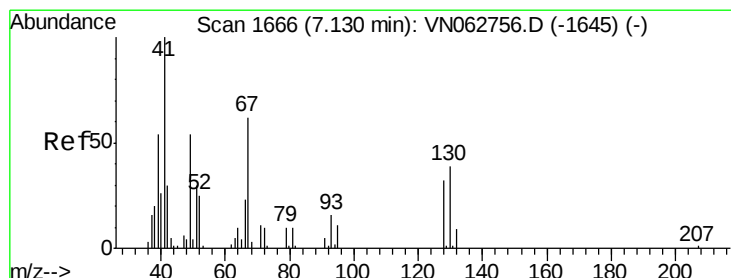
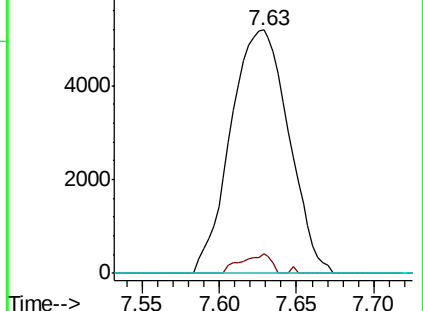
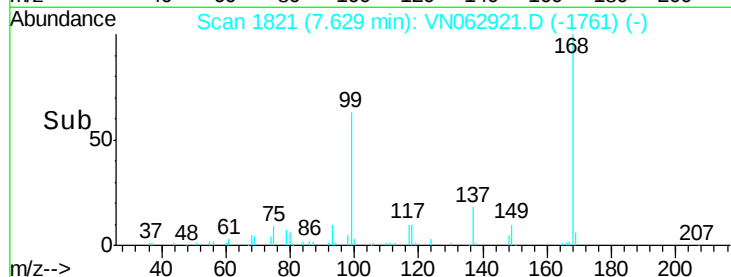
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 0.237 ug/l

RT: 7.17 min Scan# 1677

Delta R.T. 0.04 min

Lab File: VN062921.D

Acq: 13 Aug 2020 19:43

Tgt Ion: 41 Resp: 245

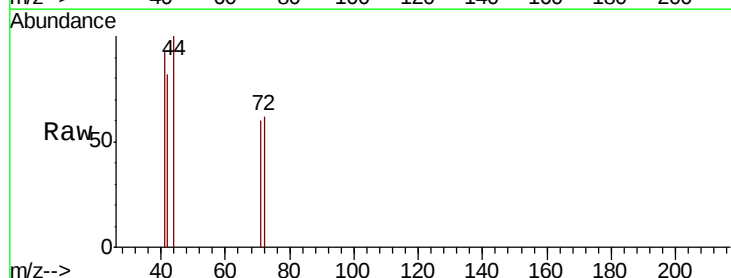
Ion Ratio Lower Upper

41 100

39 0.0 69.4 104.2#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

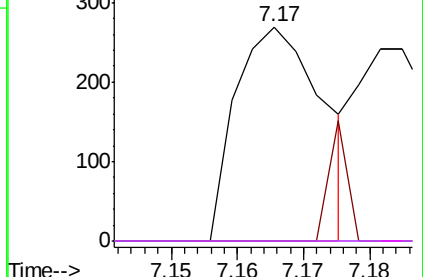
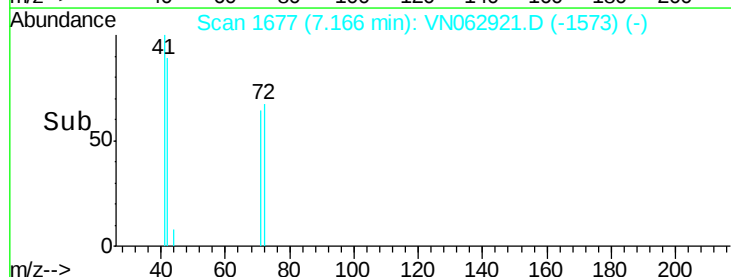


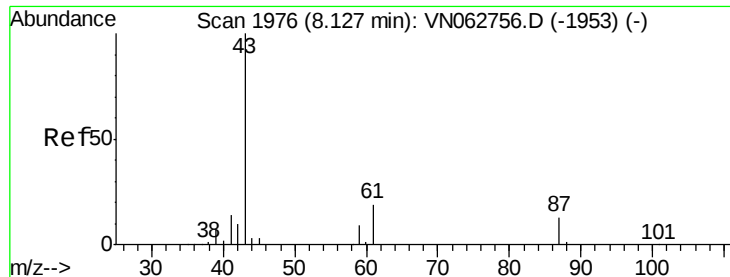
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 9.932 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062921.D

Acq: 13 Aug 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

PB130936ZHE#04

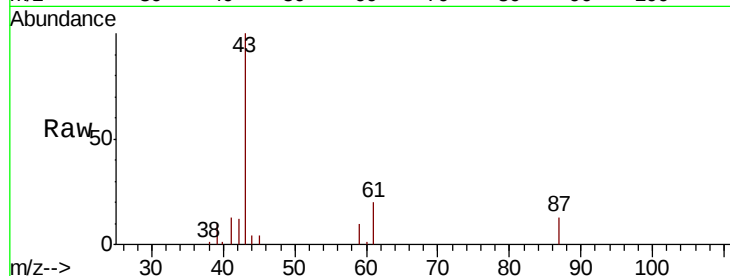
Tot Ion: 43 Resp: 37941

Ion Ratio Lower Upper

43 100

61 20.8 15.8 23.6

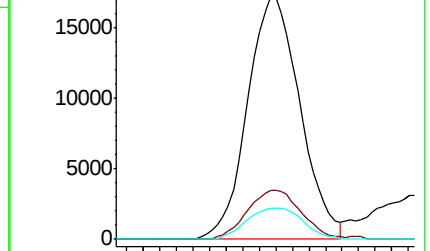
87 13.7 9.9 14.9



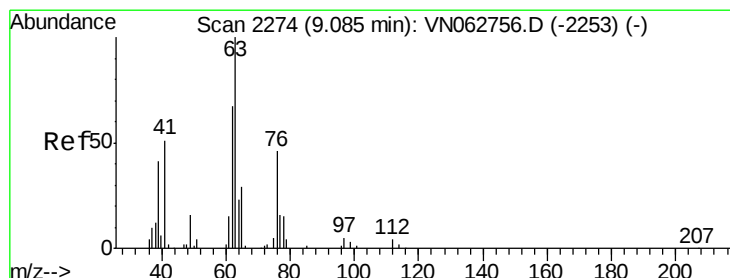
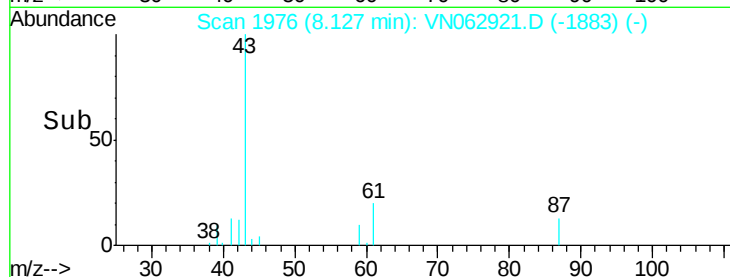
Abundance Ion 43.00 (42.70 to 43.70): VN062921.D (-1883) (-)

Ion 61.00 (60.70 to 61.70): VN062921.D (-1883) (-)

Ion 87.00 (86.70 to 87.70): VN062921.D (-1883) (-)



Time-->



#45

1,2-Dichloropropane

Concen: 0.422 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062921.D

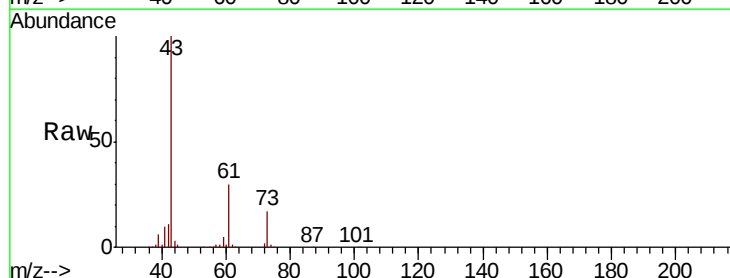
Acq: 13 Aug 2020 19:43

Tgt Ion: 63 Resp: 748

Ion Ratio Lower Upper

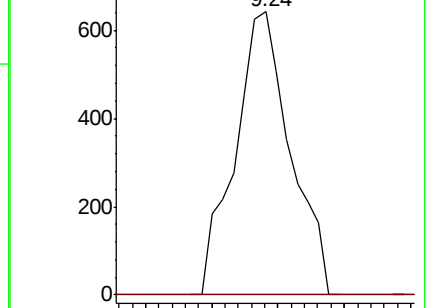
63 100

65 0.0 23.5 35.3#

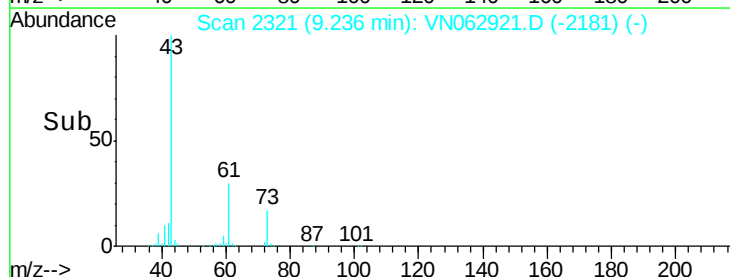


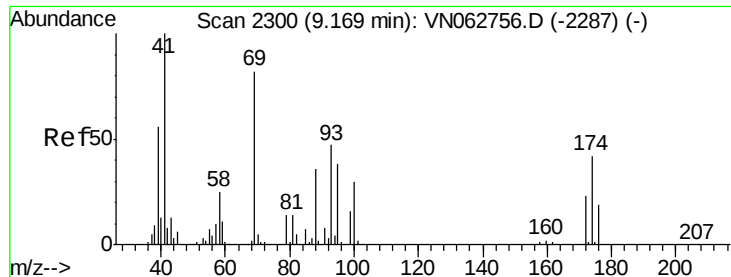
Abundance Ion 62.90 (62.60 to 63.60): VN062921.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062921.D (-2181) (-)



Time-->

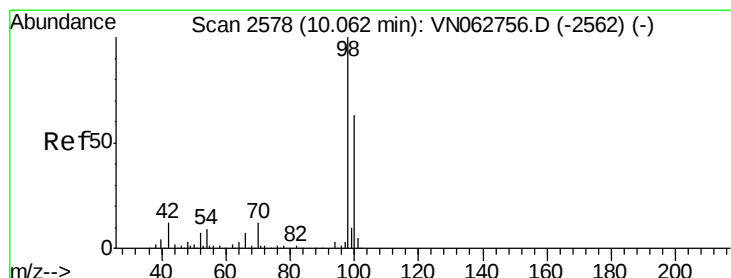
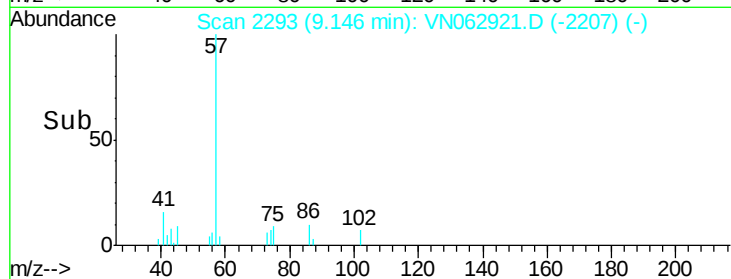
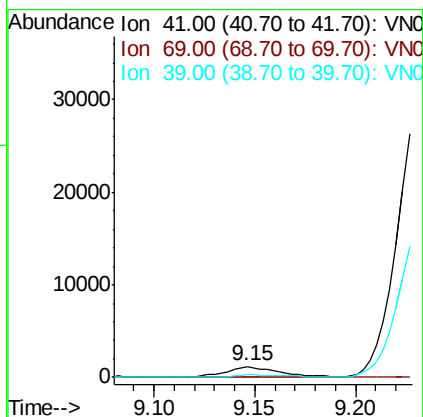
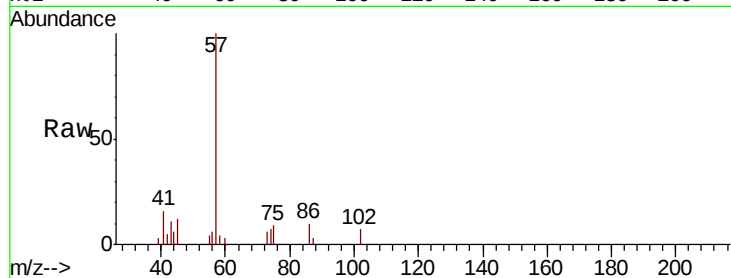




#48
Methvl methacrylate
Concen: 1.151 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062921.D
Acq: 13 Aug 2020 19:43

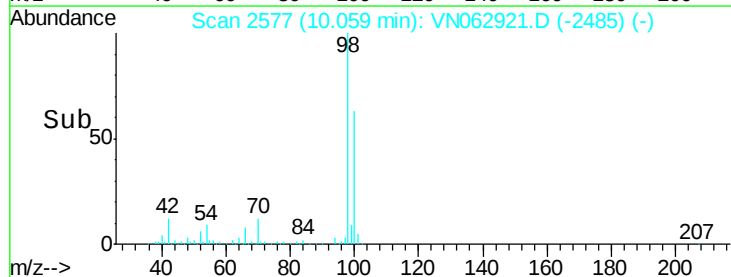
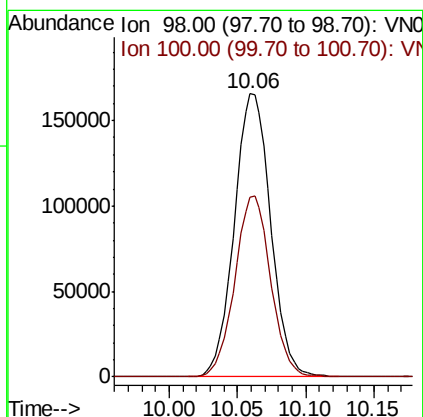
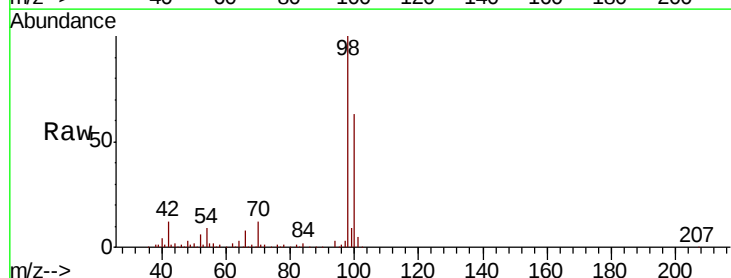
Instrument :
MSVOA_N
ClientSampleId :
PB130936ZHE#04

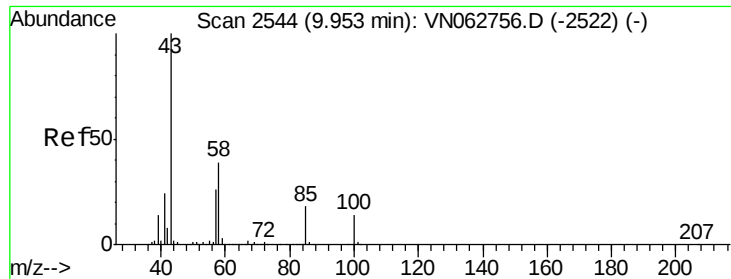
Tot Ion: 41 Resp: 2162
Ion Ratio Lower Upper
41 100
69 0.0 67.4 101.2#
39 0.0 47.6 71.4#



#50
Toluene-d8
Concen: 51.023 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062921.D
Acq: 13 Aug 2020 19:43

Tgt Ion: 98 Resp: 306807
Ion Ratio Lower Upper
98 100
100 62.9 50.9 76.3

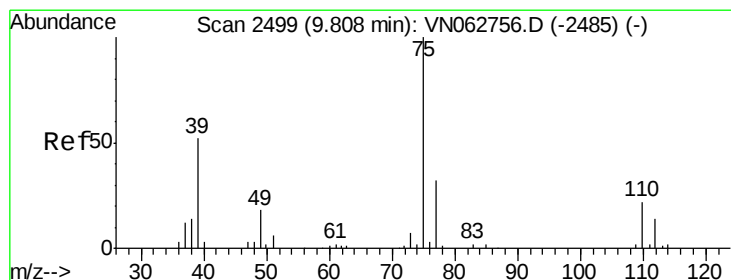
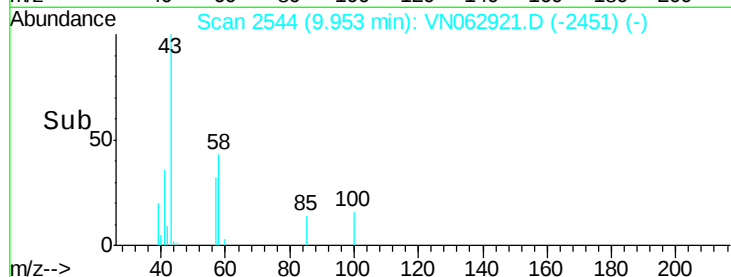
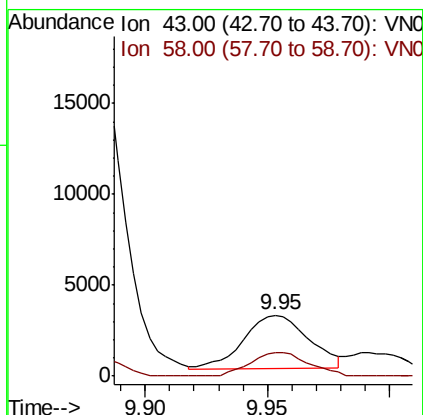
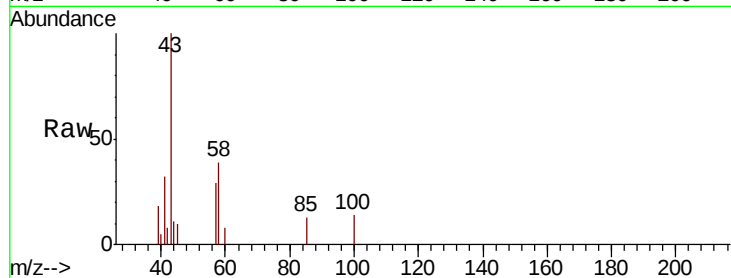




#51
 4-Methyl-2-Pentanone
 Concen: 2.234 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. 0.00 min
 Lab File: VN062921.D
 Acq: 13 Aug 2020 19:43

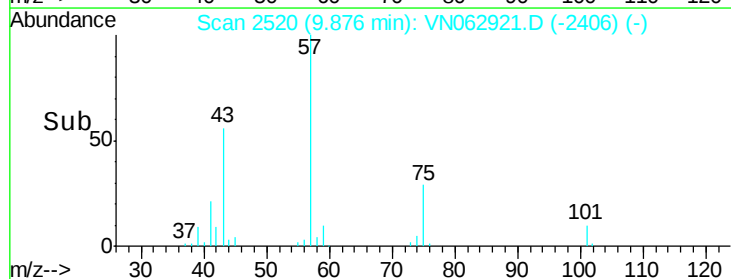
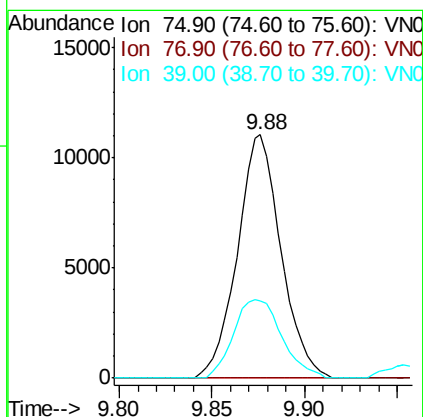
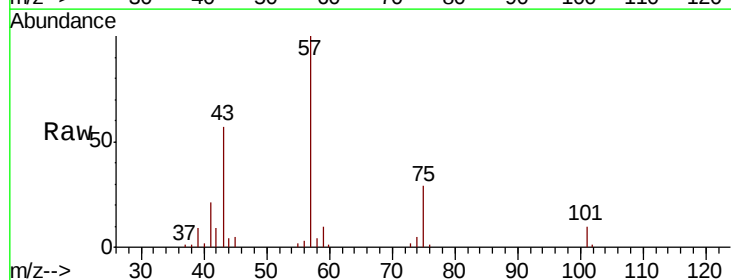
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130936ZHE#04

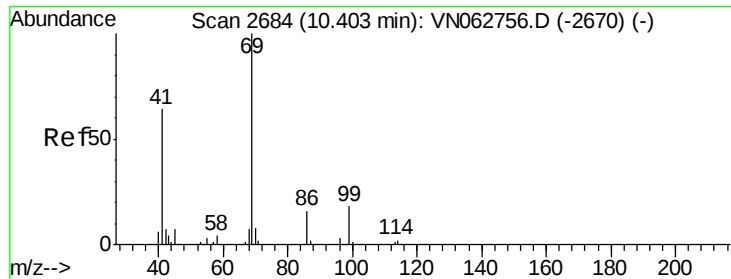
Tot Ion: 43 Resp: 5521
 Ion Ratio Lower Upper
 43 100
 58 39.0 31.1 46.7



#54
 cis-1,3-Dichloropropene
 Concen: 6.268 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062921.D
 Acq: 13 Aug 2020 19:43

Tgt Ion: 75 Resp: 18037
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 31.7 41.9 62.9#





#56

Ethyl methacrylate

Concen: 0.483 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.11 min

Lab File: VN062921.D

Acq: 13 Aug 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

PB130936ZHE#04

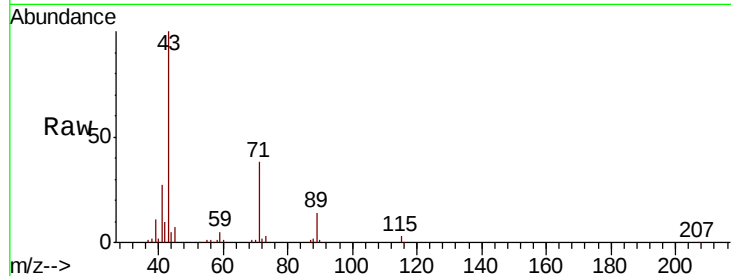
Tot Ion: 69 Resp: 1255

Ion Ratio Lower Upper

69 100

41 3251.2 52.2 78.2#

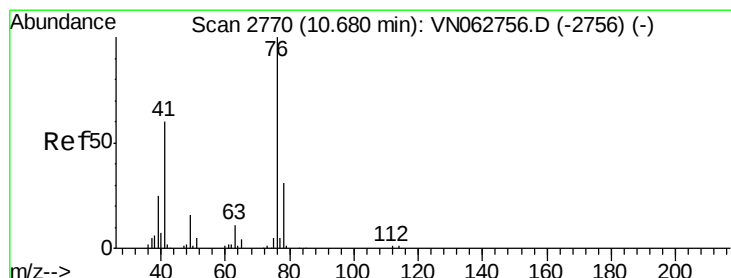
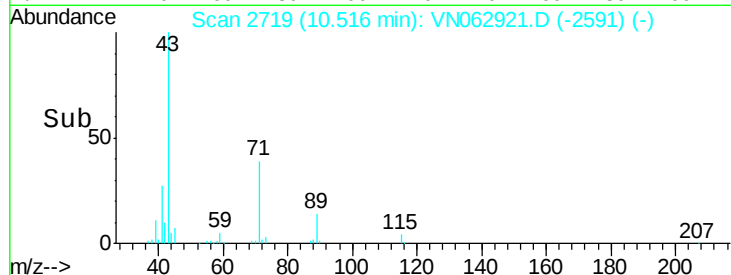
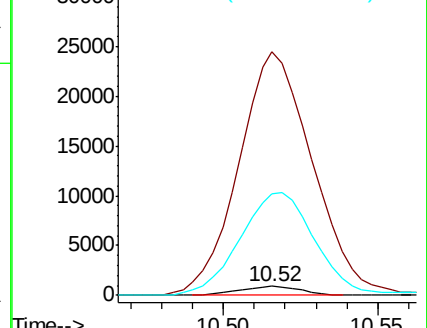
39 1374.2 30.9 46.3#



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: 1.210 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.05 min

Lab File: VN062921.D

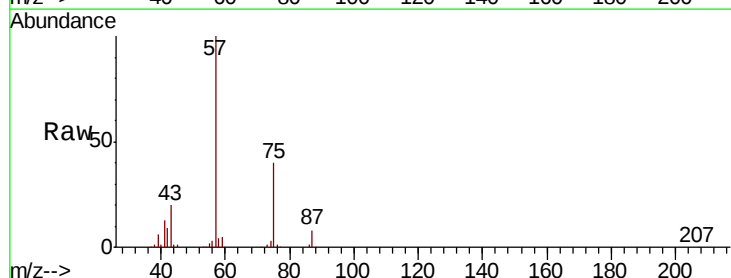
Acq: 13 Aug 2020 19:43

Tgt Ion: 76 Resp: 3548

Ion Ratio Lower Upper

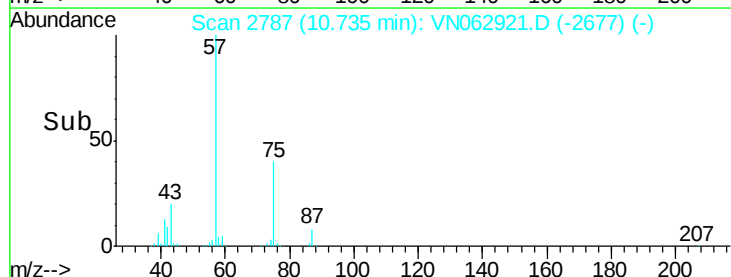
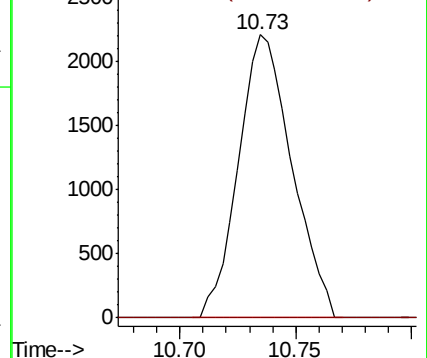
76 100

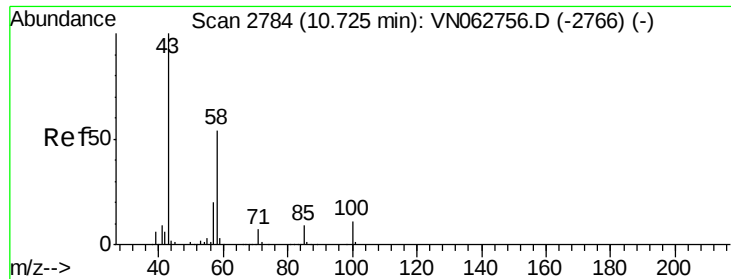
78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

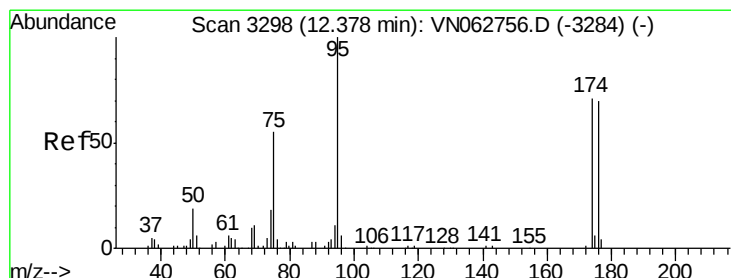
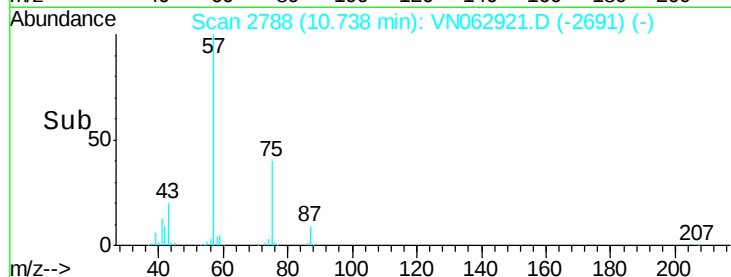
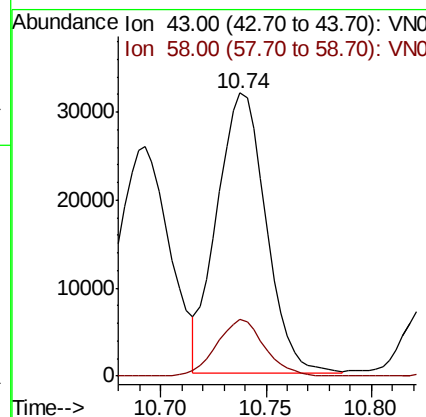
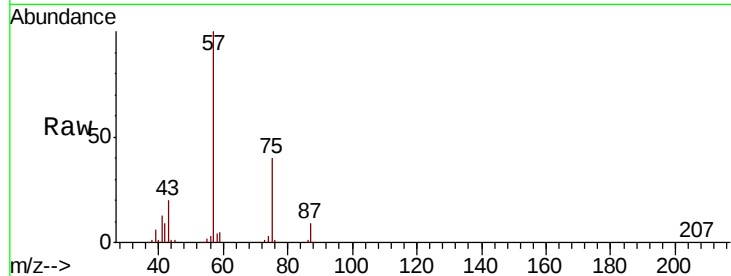




#59
2-Hexanone
Concen: 27.855 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN062921.D
Acq: 13 Aug 2020 19:43

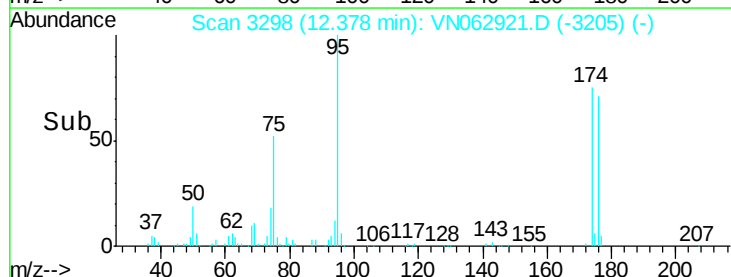
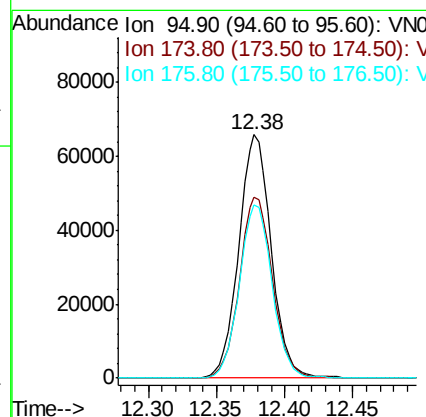
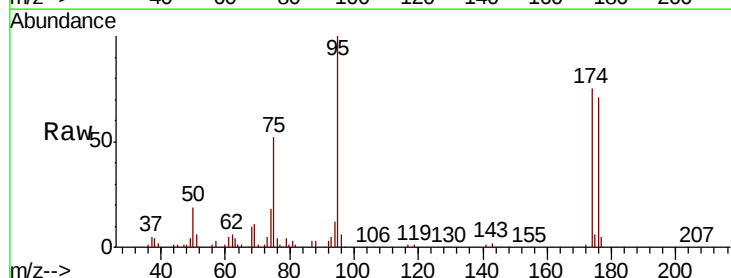
Instrument :
MSVOA_N
ClientSampleId :
PB130936ZHE#04

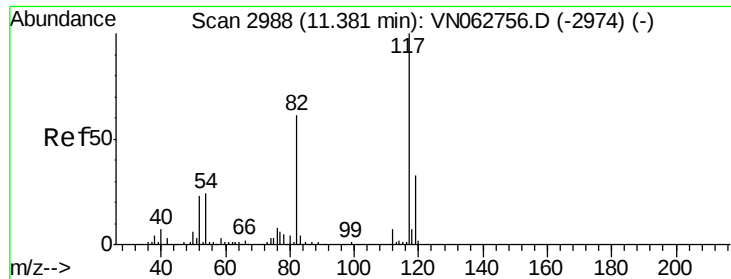
Tot Ion: 43 Resp: 51355
Ion Ratio Lower Upper
43 100
58 19.8 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 47.818 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062921.D
Acq: 13 Aug 2020 19:43

Tgt Ion: 95 Resp: 108659
Ion Ratio Lower Upper
95 100
174 76.0 0.0 144.8
176 72.1 0.0 142.2

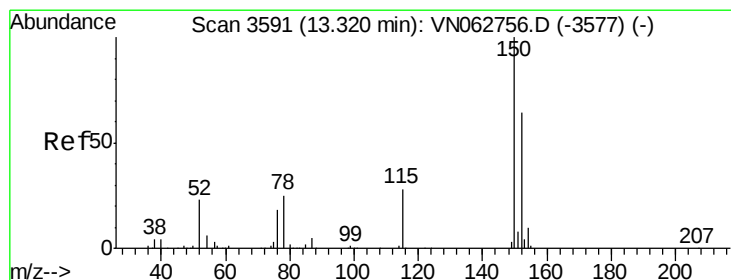
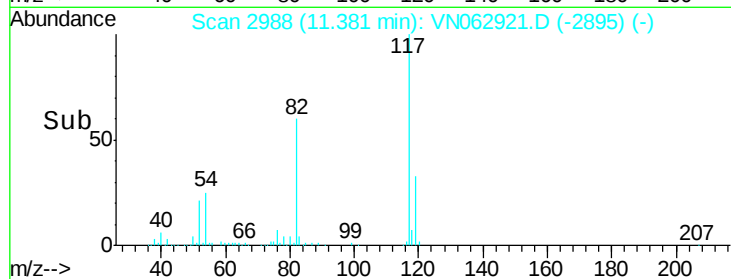
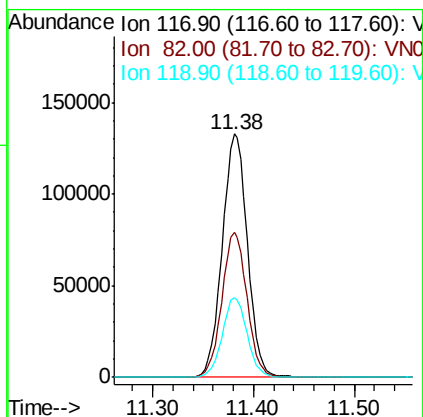
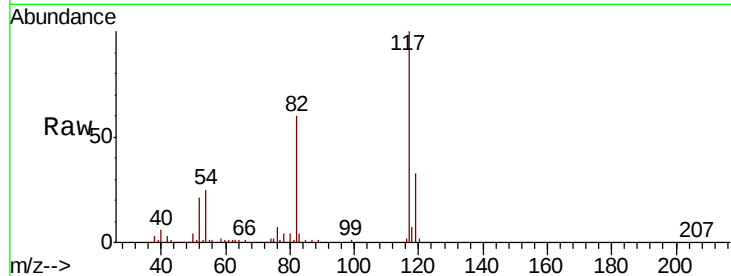




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062921.D
Acq: 13 Aug 2020 19:43

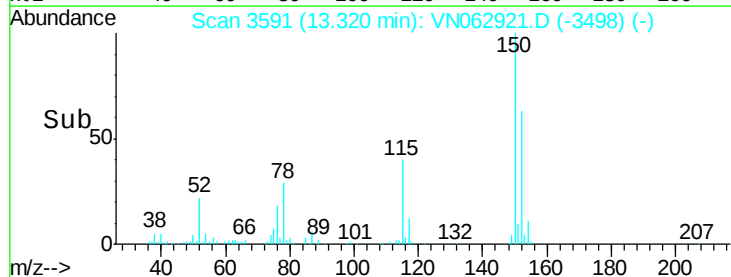
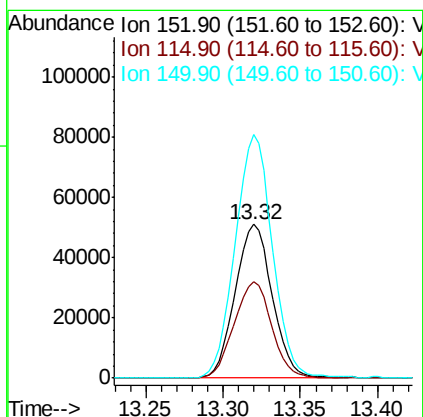
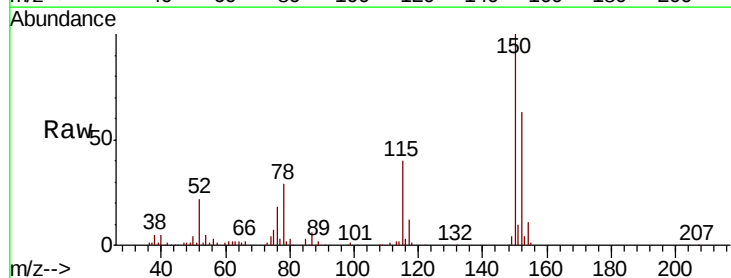
Instrument :
MSVOA_N
ClientSampleId :
PB130936ZHE#04

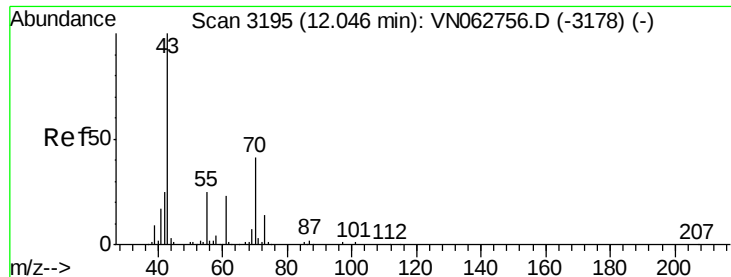
Tot Ion	Ratio	Lower	Upper
117	100		
82	59.5	49.0	73.4
119	32.9	26.2	39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062921.D
Acq: 13 Aug 2020 19:43

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.3	31.6	94.8
150	158.6	0.0	349.2





#74

N-amvl acetate

Concen: 0.491 ug/l

RT: 12.01 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VN062921.D

Acq: 13 Aug 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

PB130936ZHE#04

Tot Ion: 43 Resp: 1279

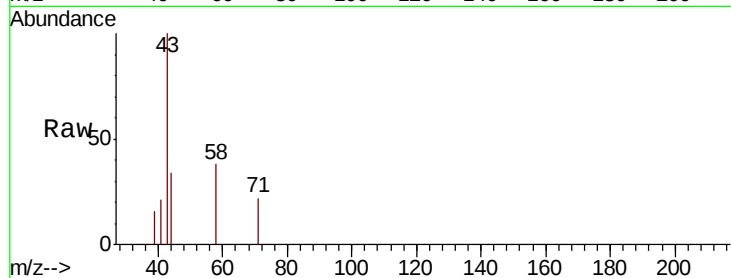
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 0.0 20.2 30.2#

61 0.0 18.2 27.4#

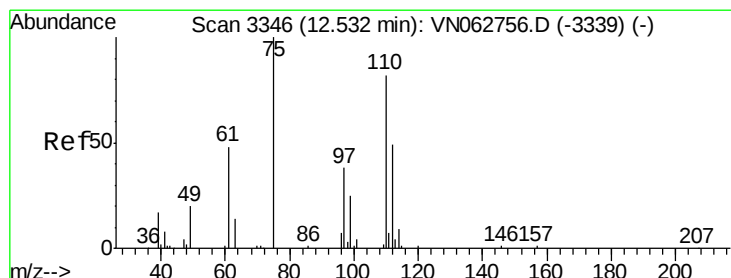
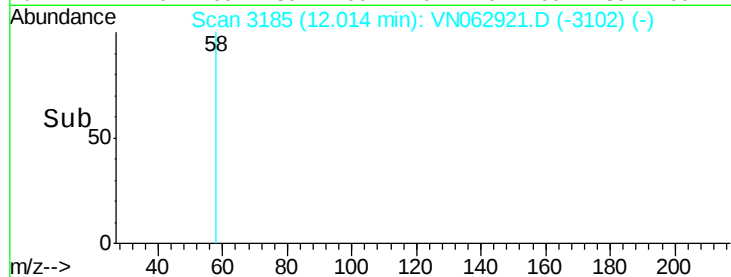
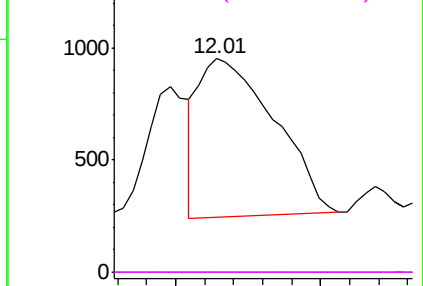


Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-3178) (-)

Ion 70.00 (69.70 to 70.70): VN062756.D (-3178) (-)

Ion 55.00 (54.70 to 55.70): VN062756.D (-3178) (-)

Ion 61.00 (60.70 to 61.70): VN062756.D (-3178) (-)



#76

1,2,3-Trichloropropane

Concen: 24.850 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062921.D

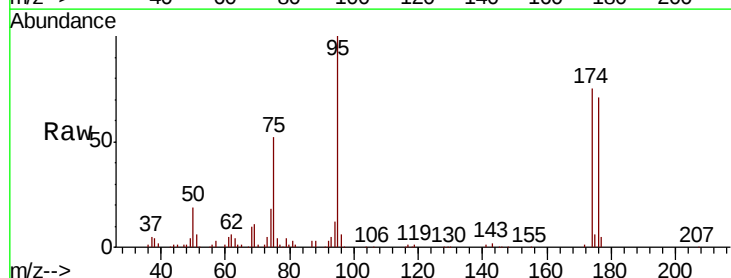
Acq: 13 Aug 2020 19:43

Tgt Ion: 75 Resp: 57255

Ion Ratio Lower Upper

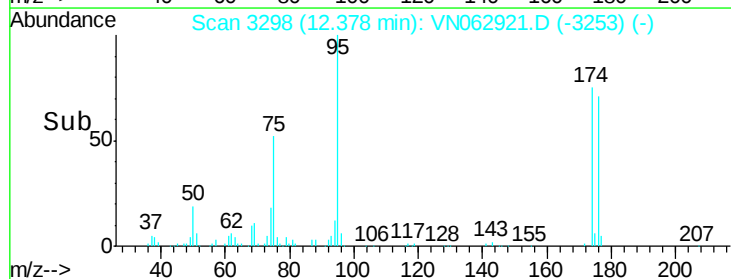
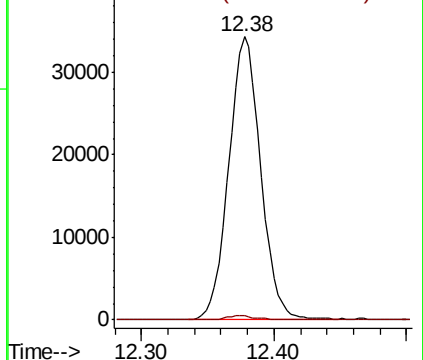
75 100

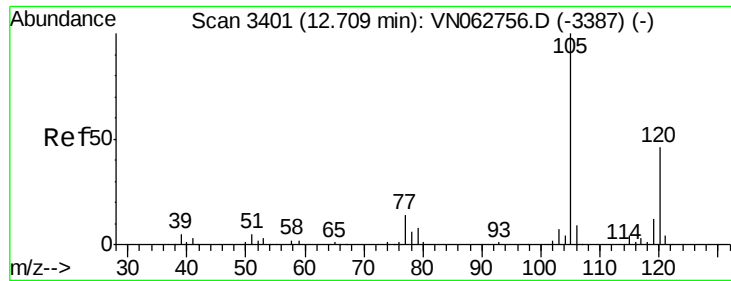
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN062756.D (-3339) (-)

Ion 77.00 (76.70 to 77.70): VN062756.D (-3339) (-)

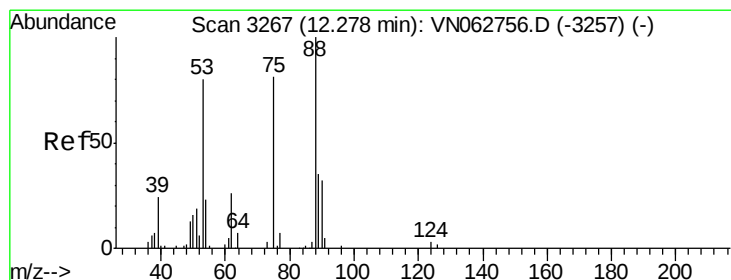
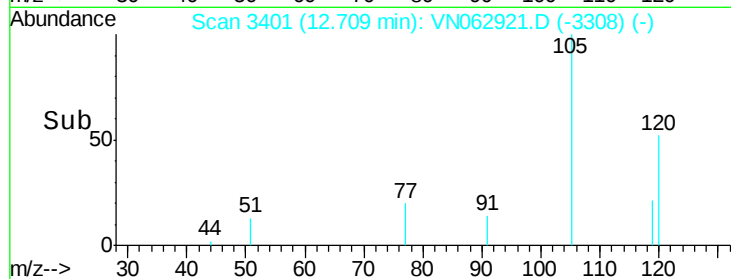
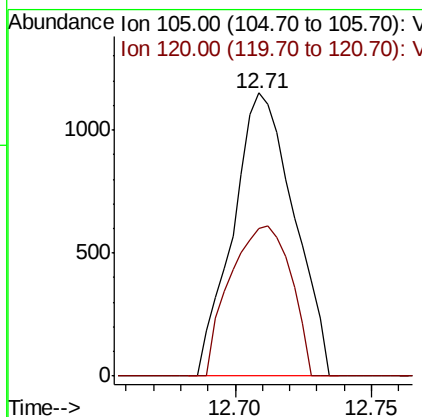
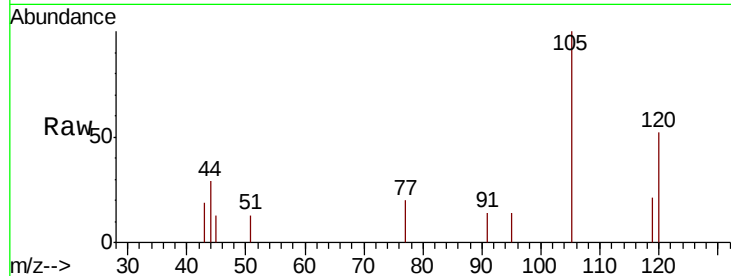




#80
 1,3,5-Trimethylbenzene
 Concen: 0.319 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. 0.00 min
 Lab File: VN062921.D
 Acq: 13 Aug 2020 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130936ZHE#04

Tot Ion:105 Resp: 1781
 Ion Ratio Lower Upper
 105 100
 120 53.1 22.9 68.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.859 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062921.D
 Acq: 13 Aug 2020 19:43

Tgt Ion: 75 Resp: 57255
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.1 118.7#
 89 0.0 36.2 54.2#

