

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN060820\
 Data File : VN061701.D
 Acq On : 8 Jun 2020 17:18
 Operator : JC/MD
 Sample : L2815-05
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-060520

Quant Time: Jun 09 03:13:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	299564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	519488	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	536665	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	244635	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	172329	48.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.56%	
35) Dibromofluoromethane	7.55	113	149629	56.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.56%	
50) Toluene-d8	10.06	98	641543	52.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.06%	
62) 4-Bromofluorobenzene	12.38	95	232662	52.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.44%	

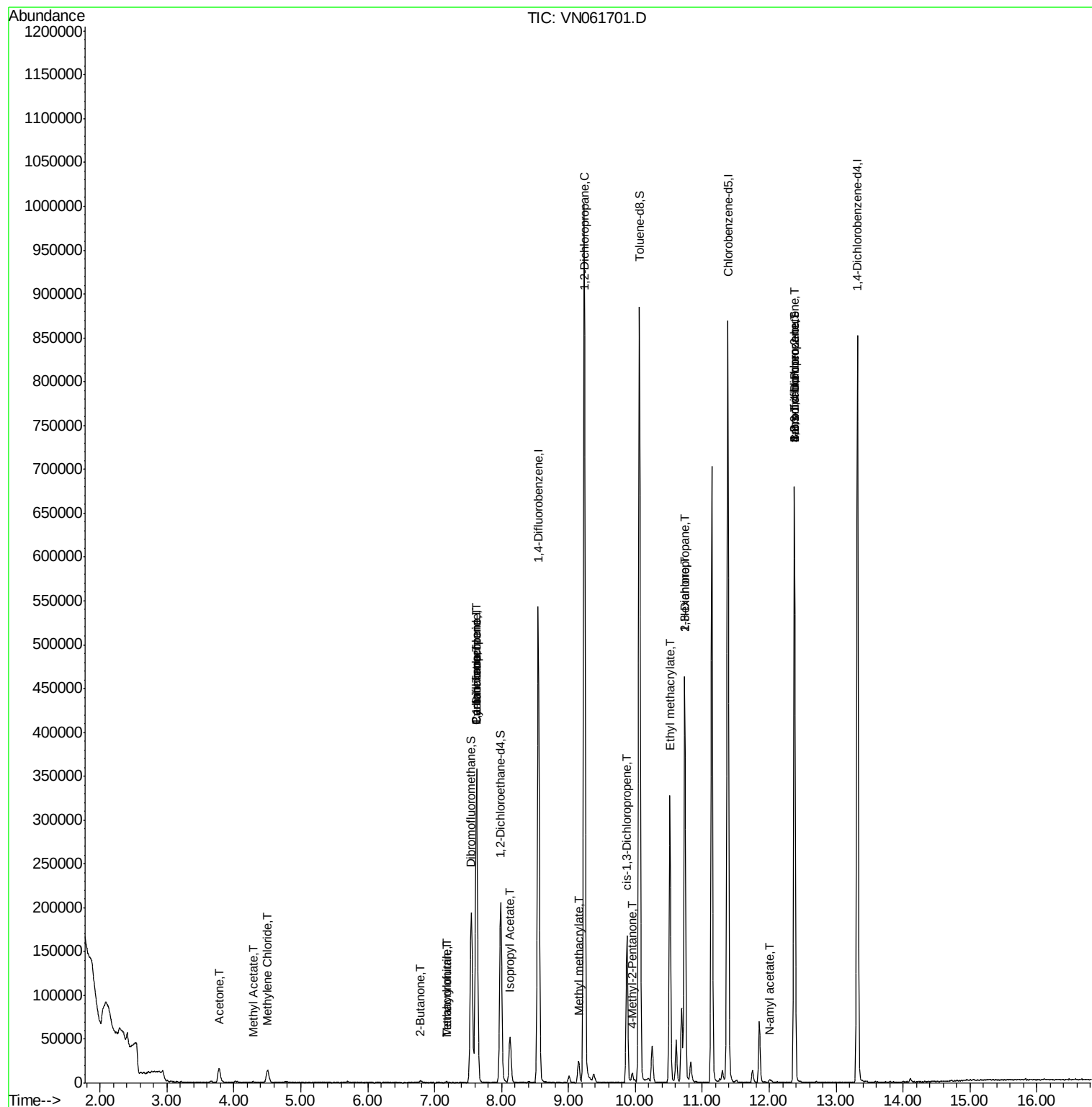
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	27341	22.14	ug/l	100
18) Methyl Acetate	4.28	43	1106	0.34	ug/l #	85
20) Methylene Chloride	4.50	84	11190	1.77	ug/l	97
25) 2-Butanone	6.79	43	1459	0.86	ug/l	95
29) Tetrahydrofuran	7.17	42	439	0.39	ug/l #	74
31) Cyclohexane	7.62	56	2670	0.53	ug/l #	18
36) 1,1-Dichloropropene	7.63	75	20216	4.40	ug/l #	48
38) Carbon Tetrachloride	7.63	117	28720	6.47	ug/l #	17
41) Methacrylonitrile	7.17	41	389	0.23	ug/l #	18
43) Isopropyl Acetate	8.13	43	59982	9.00	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	1285	0.38	ug/l #	44
48) Methyl methacrylate	9.15	41	3368	1.12	ug/l #	5
51) 4-Methyl-2-Pentanone	9.96	43	9521	2.54	ug/l #	80
54) cis-1,3-Dichloropropene	9.87	75	34689	5.85	ug/l #	62
56) Ethyl methacrylate	10.52	69	1094	0.21	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5287	0.90	ug/l #	42
59) 2-Hexanone	10.74	43	56528	20.96	ug/l #	50
71) Bromoform	12.38	173	2064	0.64	ug/l #	1
74) N-amyl acetate	12.00	43	2242	0.40	ug/l #	41
76) 1,2,3-Trichloropropane	12.38	75	112512	25.29	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	112512	64.68	ug/l #	15

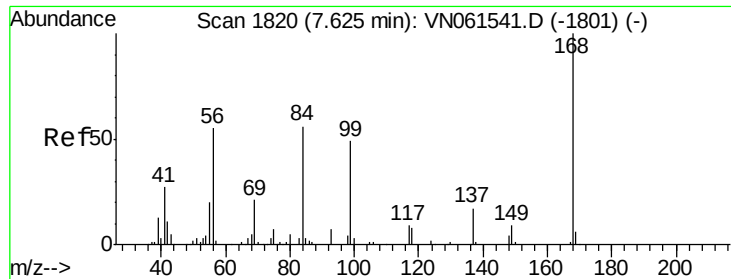
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 29 02:14:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061701.D

Acq: 8 Jun 2020 17:18

Instrument :

MSVOA_N

ClientSampleId :

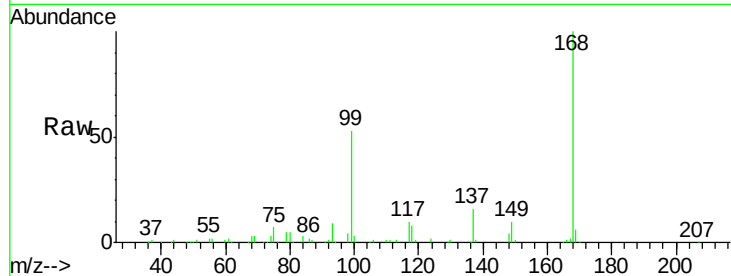
OR-02-060520

Tgt Ion:168 Resp: 299564

Ion Ratio Lower Upper

168 100

99 52.6 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

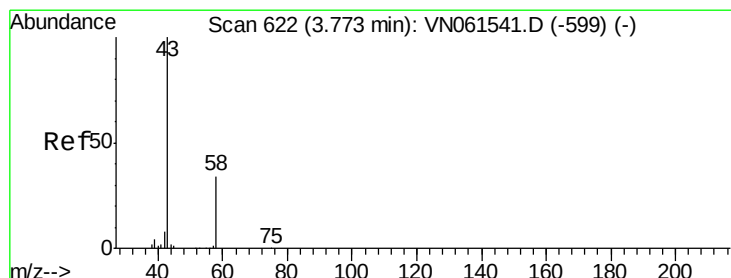
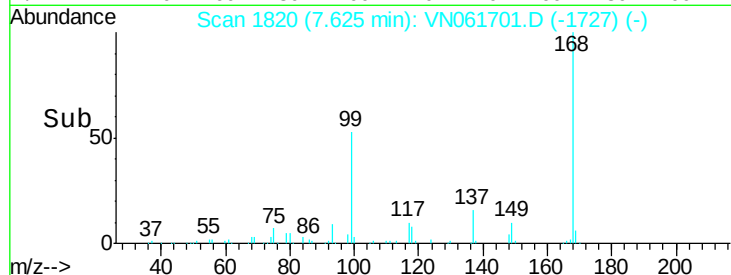
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 22.14 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061701.D

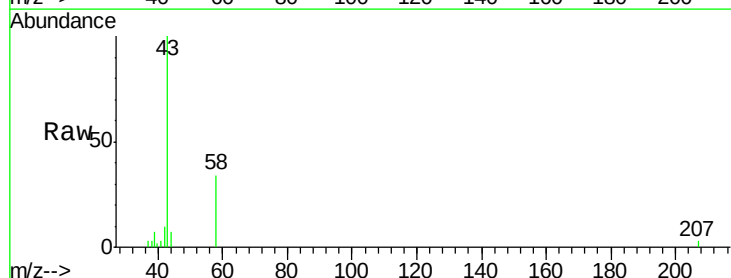
Acq: 8 Jun 2020 17:18

Tgt Ion: 43 Resp: 27341

Ion Ratio Lower Upper

43 100

58 34.1 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

10000

8000

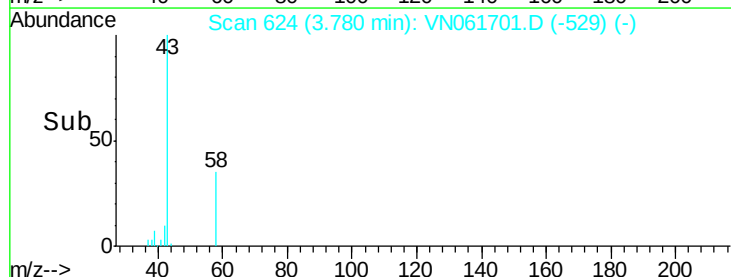
6000

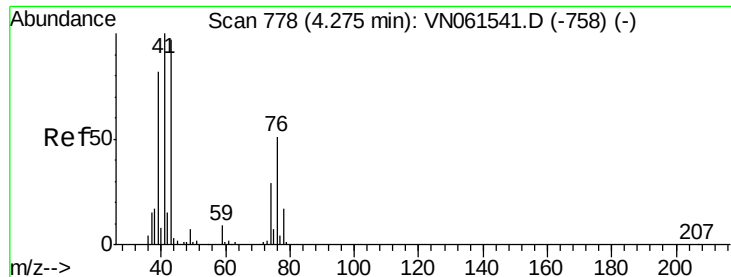
4000

2000

0

Time-->

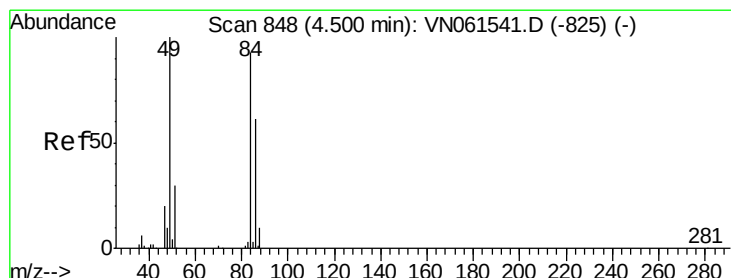
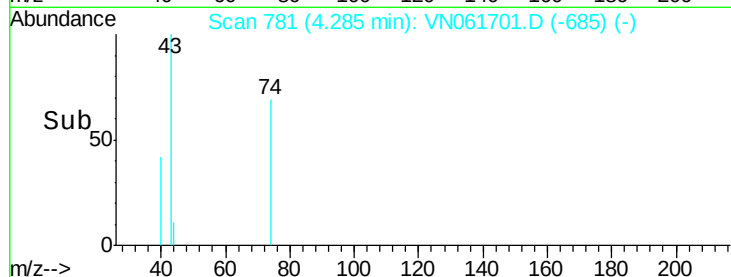
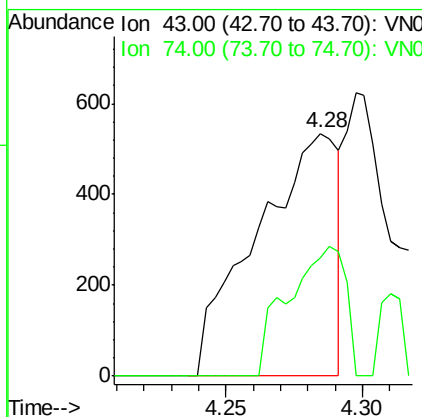
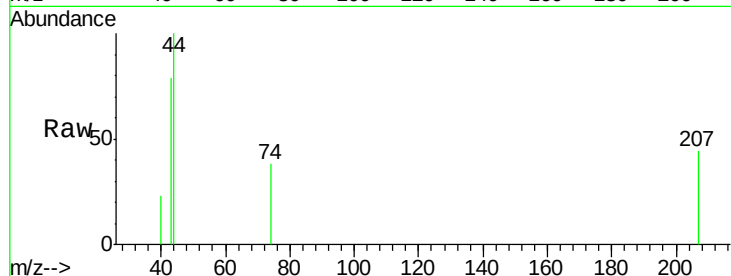




#18
Methyl Acetate
Concen: 0.34 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN061701.D
Acq: 8 Jun 2020 17:18

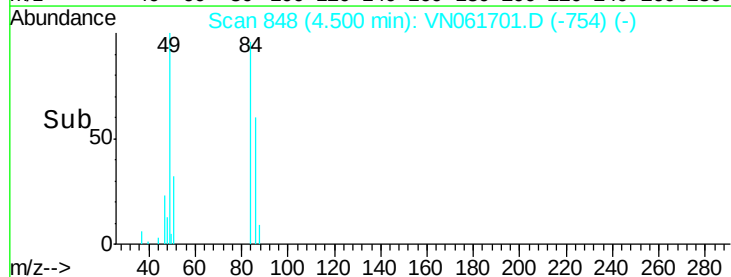
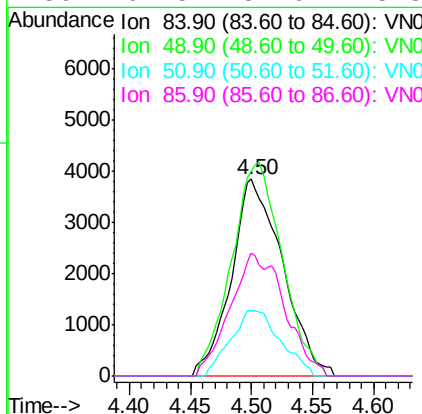
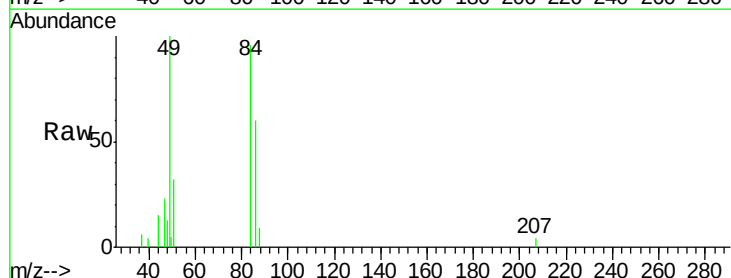
Instrument :
MSVOA_N
ClientSampleId :
OR-02-060520

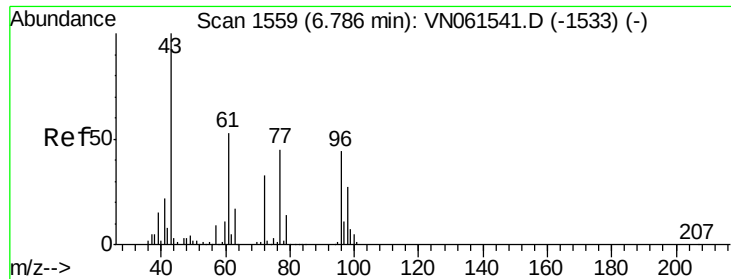
Tgt Ion: 43 Resp: 1106
Ion Ratio Lower Upper
43 100
74 37.3 23.2 34.8#



#20
Methylene Chloride
Concen: 1.77 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN061701.D
Acq: 8 Jun 2020 17:18

Tgt Ion: 84 Resp: 11190
Ion Ratio Lower Upper
84 100
49 104.3 85.8 128.8
51 33.3 26.2 39.2
86 62.5 52.6 78.8





#25

2-Butanone

Concen: 0.86 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VN061701.D

Acq: 8 Jun 2020 17:18

Instrument :

MSVOA_N

ClientSampled :

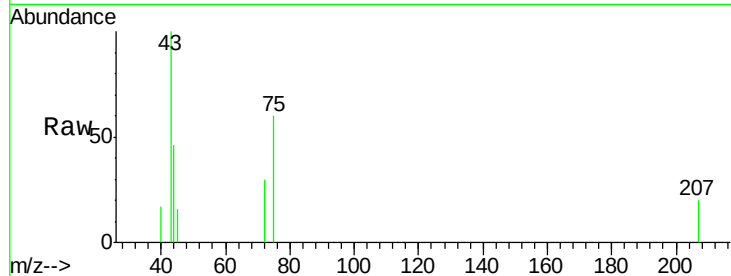
OR-02-060520

Tgt Ion: 43 Resp: 1459

Ion Ratio Lower Upper

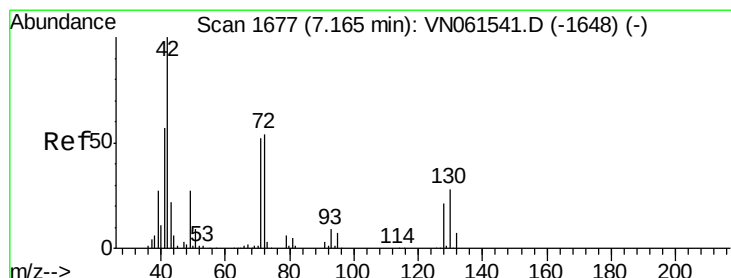
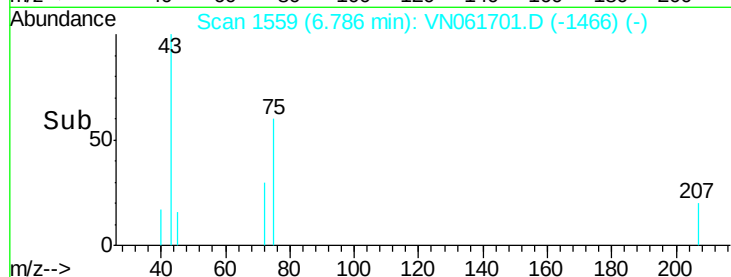
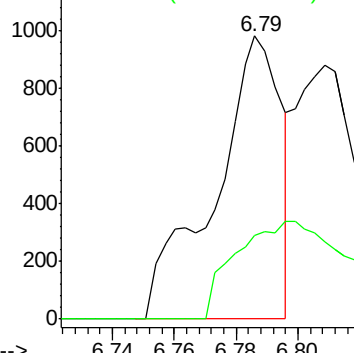
43 100

72 29.8 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.39 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.01 min

Lab File: VN061701.D

Acq: 8 Jun 2020 17:18

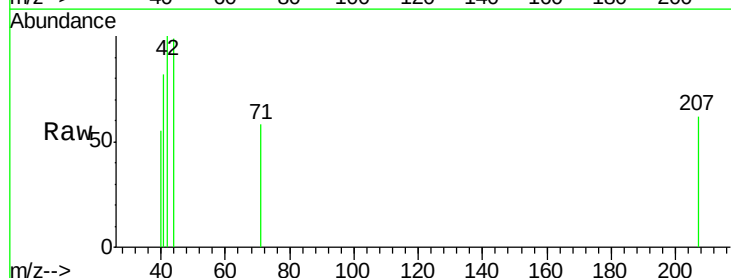
Tgt Ion: 42 Resp: 439

Ion Ratio Lower Upper

42 100

72 23.2 43.6 65.4#

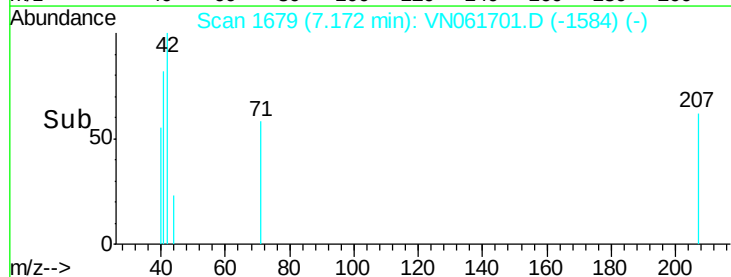
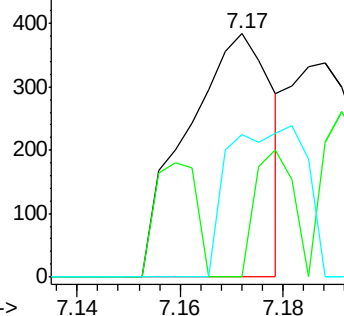
71 56.7 41.2 61.8

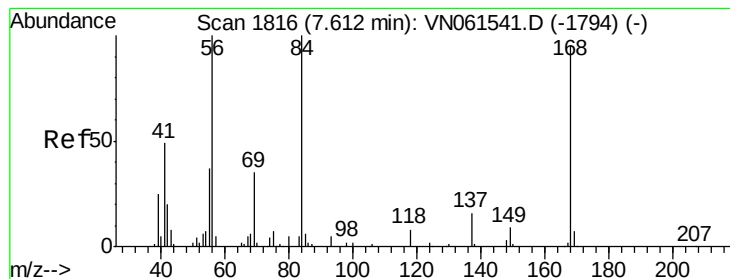


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 0.53 ug/l

RT: 7.62 min Scan# 1817

Delta R.T. 0.00 min

Lab File: VN061701.D

Acq: 8 Jun 2020 17:18

Instrument :

MSVOA_N

ClientSampleId :

OR-02-060520

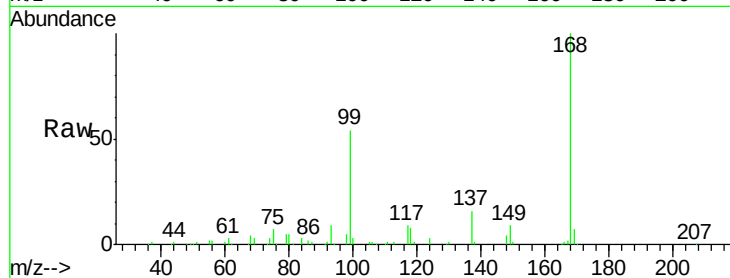
Tgt Ion: 56 Resp: 2670

Ion Ratio Lower Upper

56 100

69 167.6 27.8 41.8#

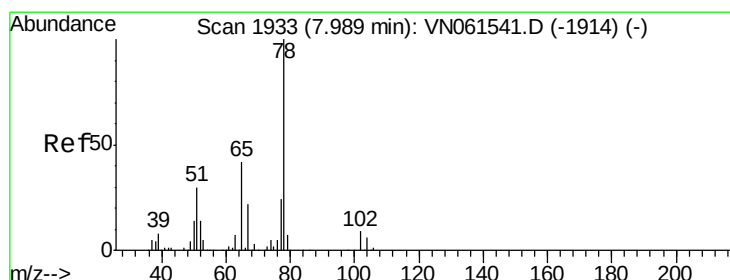
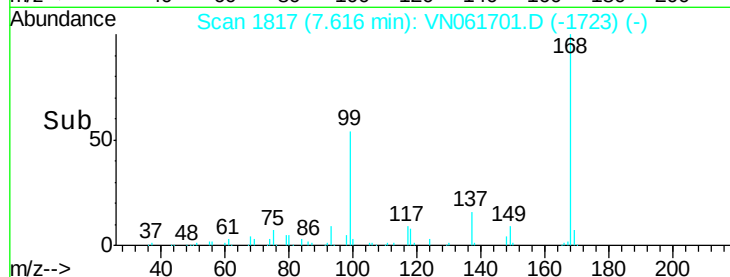
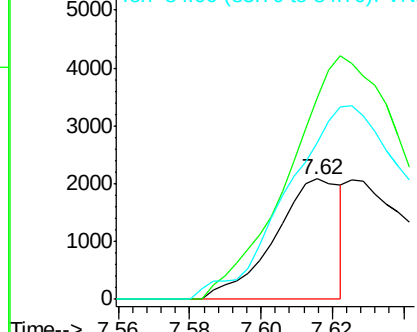
84 130.3 79.9 119.9#



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: 48.28 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN061701.D

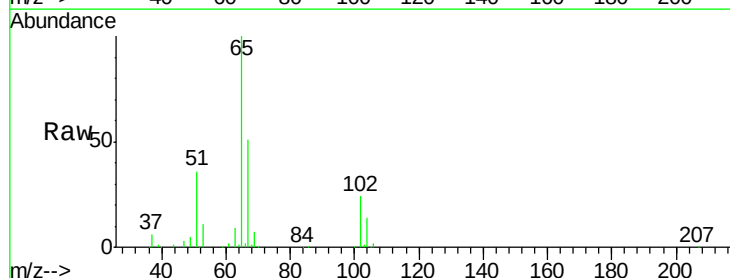
Acq: 8 Jun 2020 17:18

Tgt Ion: 65 Resp: 172329

Ion Ratio Lower Upper

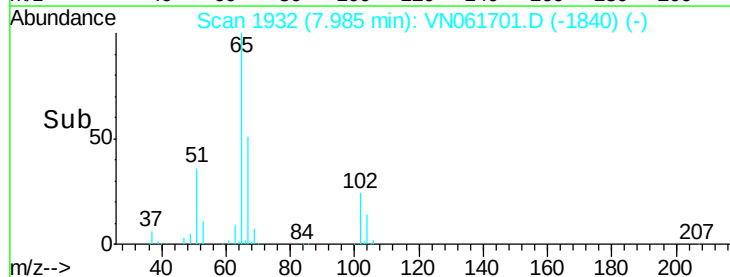
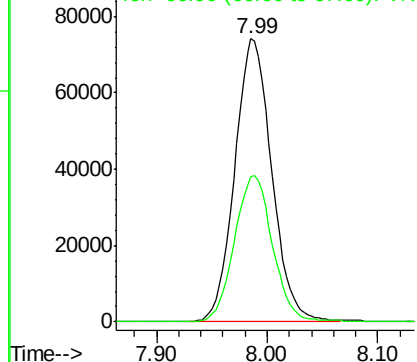
65 100

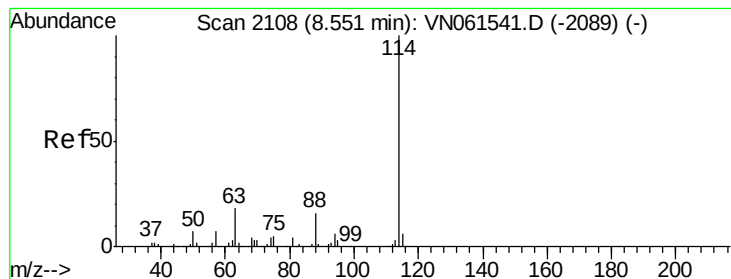
67 53.0 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061701.D

Acq: 8 Jun 2020 17:18

Instrument :

MSVOA_N

ClientSampleId :

OR-02-060520

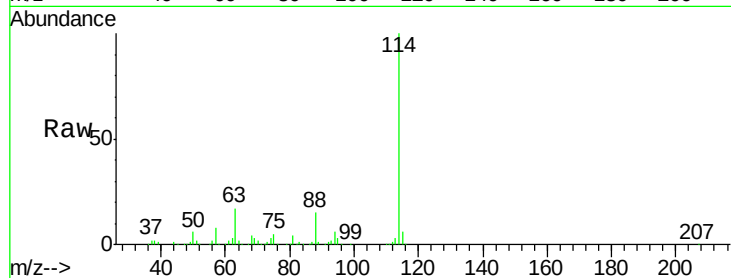
Tgt Ion:114 Resp: 519488

Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.8

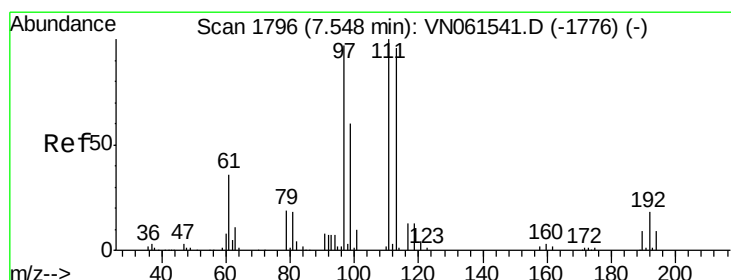
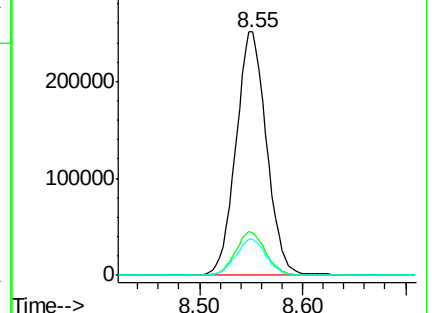
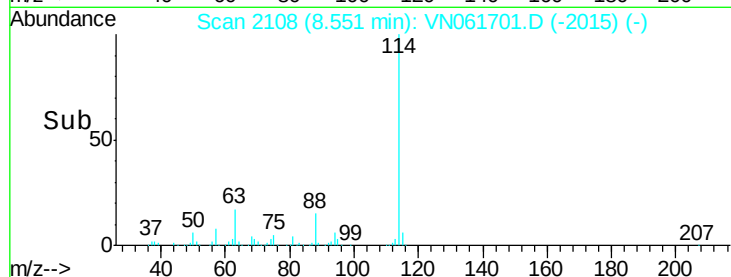
88 14.7 0.0 31.0



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: 56.78 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061701.D

Acq: 8 Jun 2020 17:18

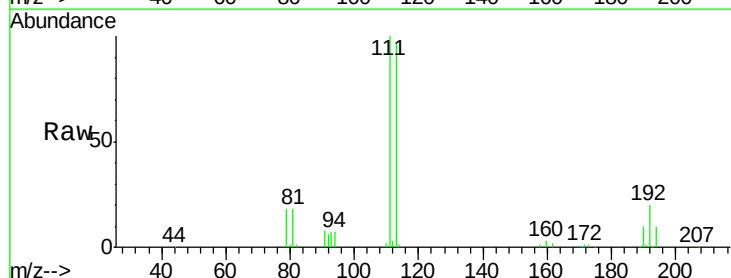
Tgt Ion:113 Resp: 149629

Ion Ratio Lower Upper

113 100

111 102.0 83.4 125.0

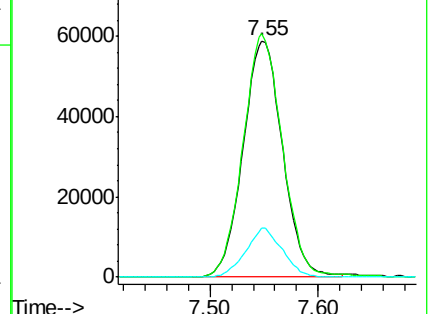
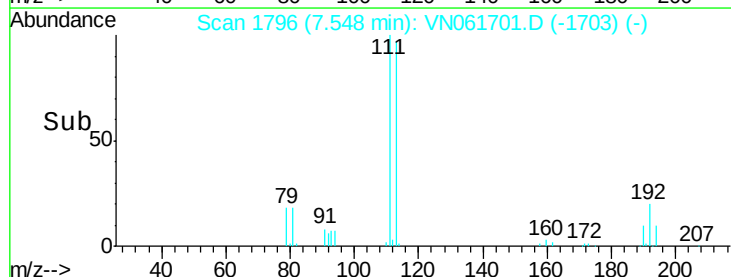
192 19.2 15.4 23.2

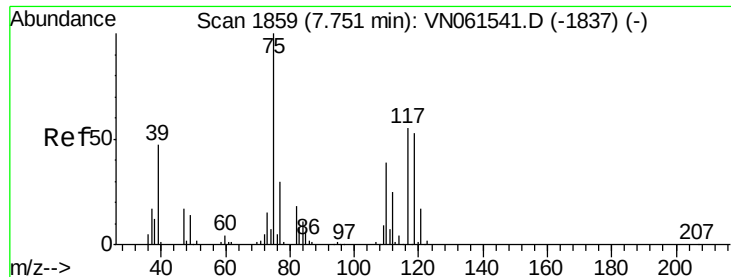


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

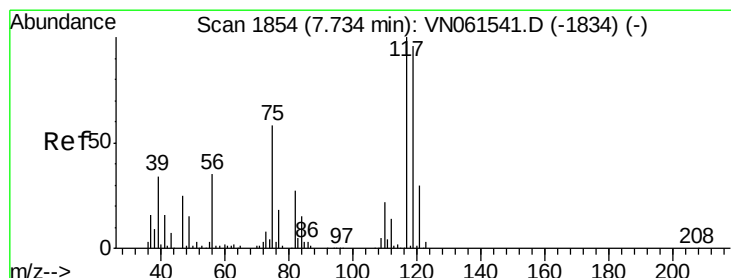
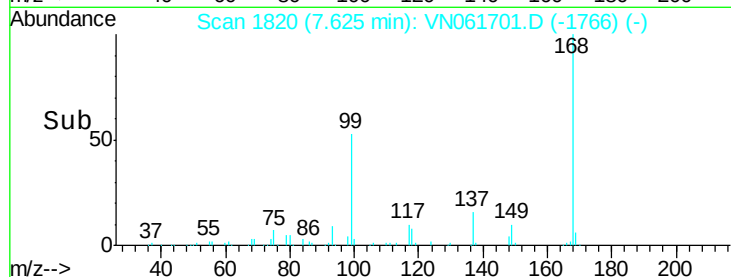
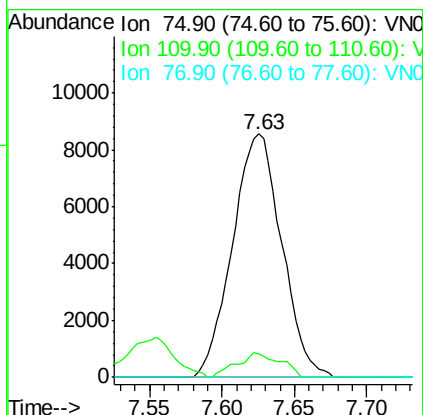
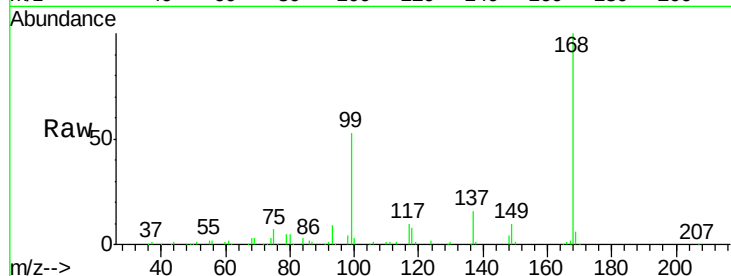




#36
 1,1-Dichloropropene
 Concen: 4.40 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061701.D
 Acq: 8 Jun 2020 17:18

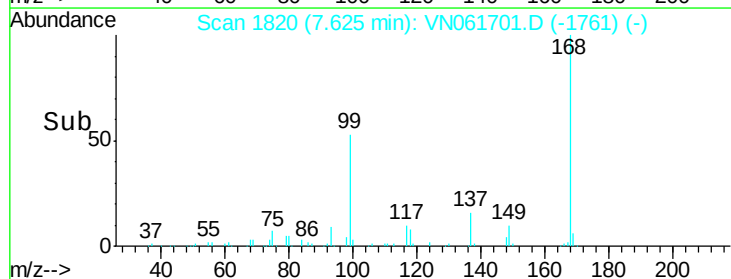
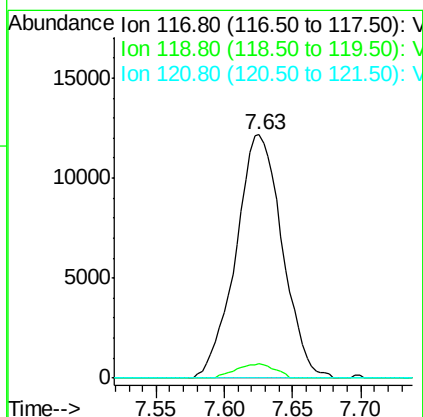
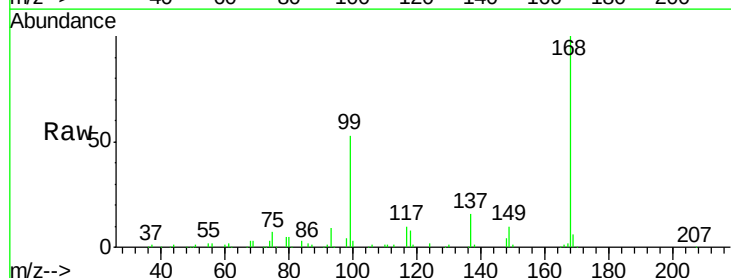
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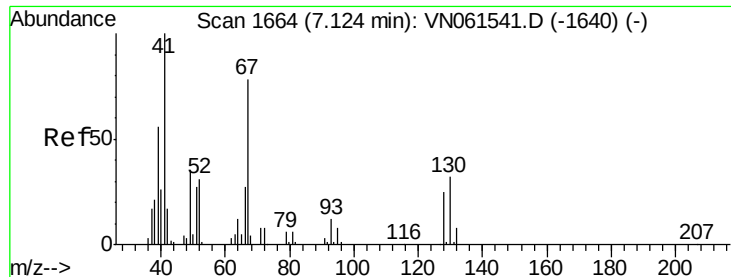
Tgt Ion: 75 Resp: 20216
 Ion Ratio Lower Upper
 75 100
 110 8.9 19.5 58.5#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.47 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061701.D
 Acq: 8 Jun 2020 17:18

Tgt Ion: 117 Resp: 28720
 Ion Ratio Lower Upper
 117 100
 119 5.7 76.5 114.7#
 121 0.0 24.1 36.1#

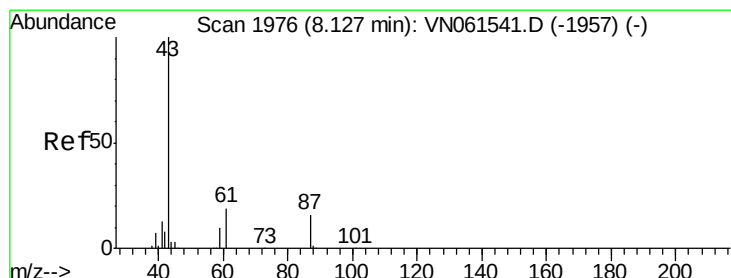
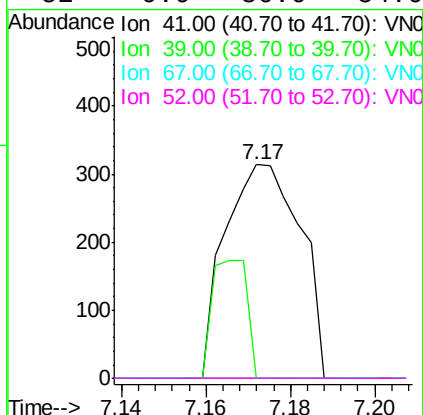
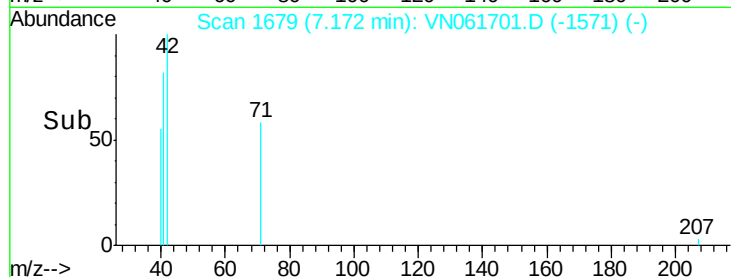
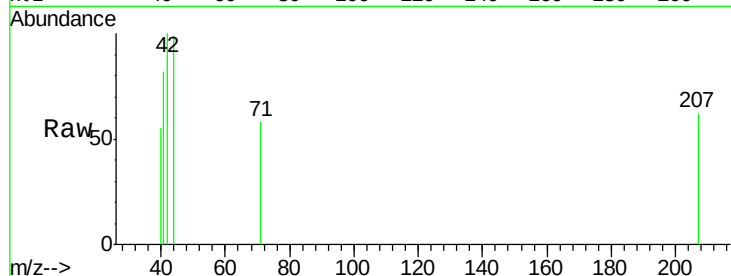




#41
Methacrylonitrile
Concen: 0.23 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.05 min
Lab File: VN061701.D
Acq: 8 Jun 2020 17:18

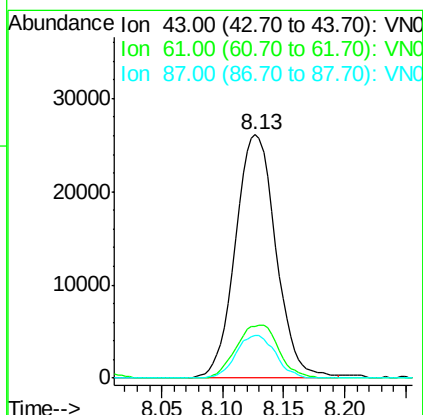
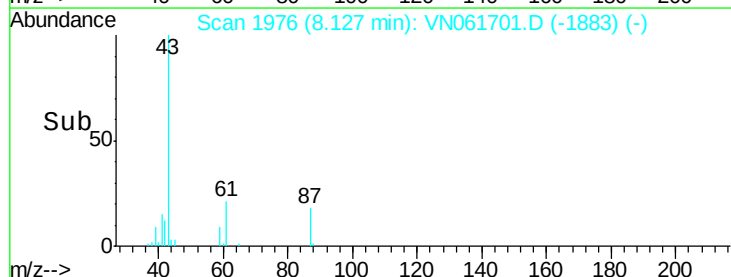
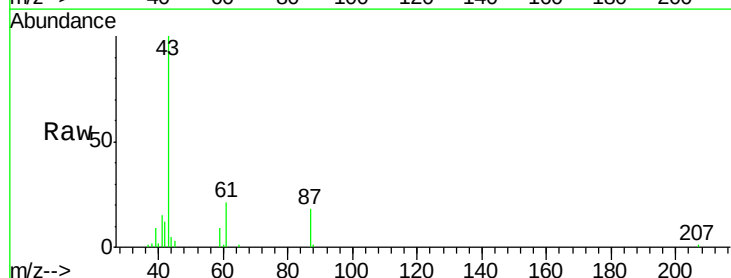
Instrument :
MSVOA_N
ClientSampleId :
OR-02-060520

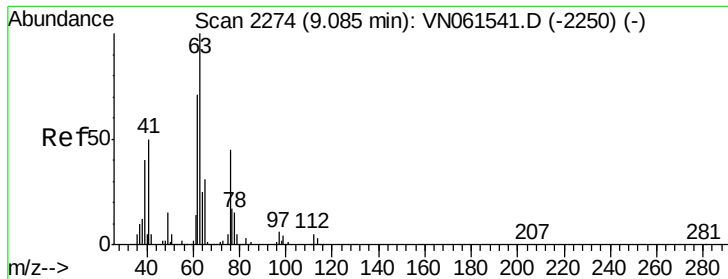
Tgt Ion: 41 Resp: 389
Ion Ratio Lower Upper
41 100
39 25.4 53.8 80.6#
67 0.0 91.1 136.7#
52 0.0 36.0 54.0#



#43
Isopropyl Acetate
Concen: 9.00 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061701.D
Acq: 8 Jun 2020 17:18

Tgt Ion: 43 Resp: 59982
Ion Ratio Lower Upper
43 100
61 22.8 23.6 35.4#
87 17.1 13.0 19.6

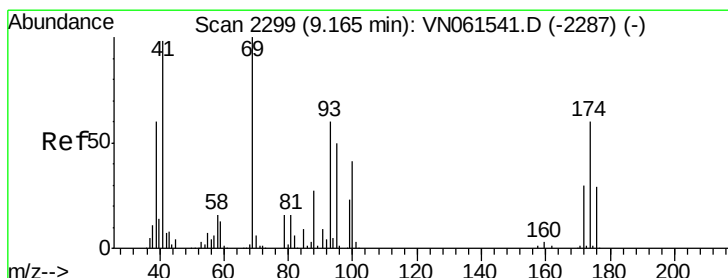
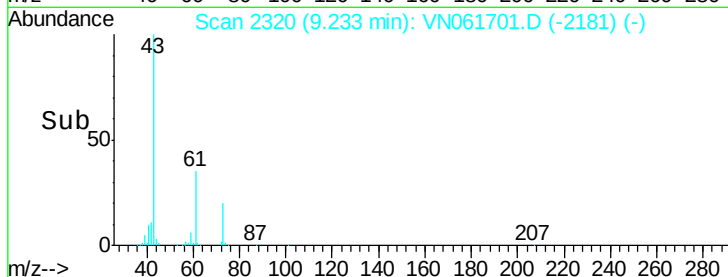
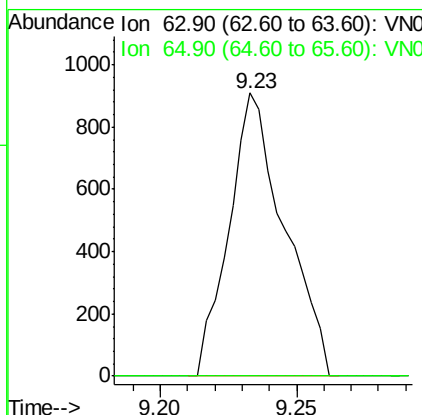
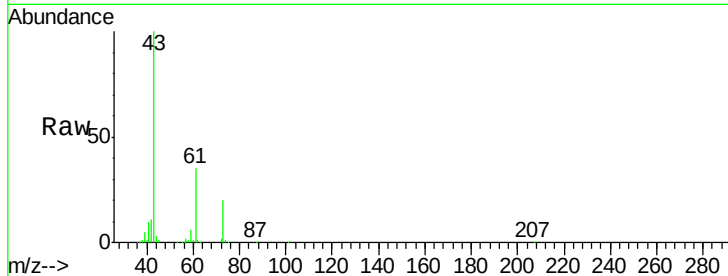




#45
 1,2-Dichloropropane
 Concen: 0.38 ug/l
 RT: 9.23 min Scan# 2320
 Delta R.T. 0.15 min
 Lab File: VN061701.D
 Acq: 8 Jun 2020 17:18

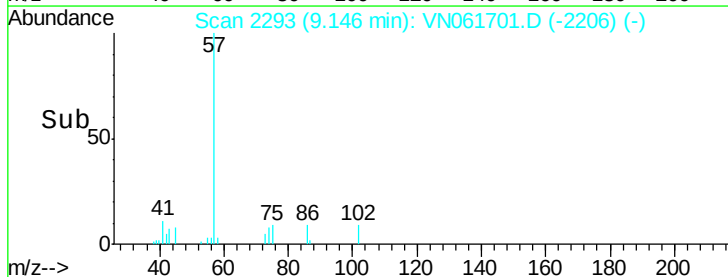
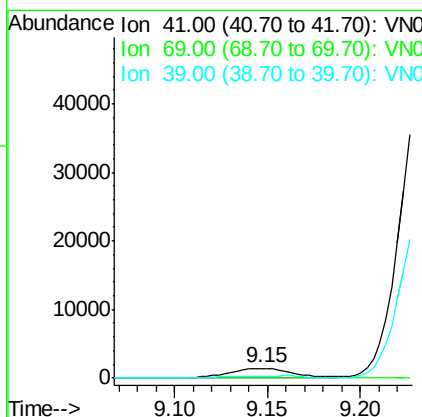
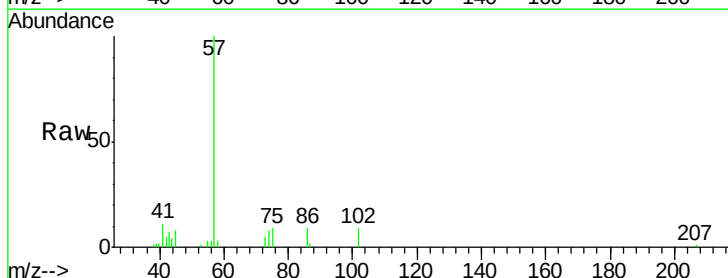
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-060520

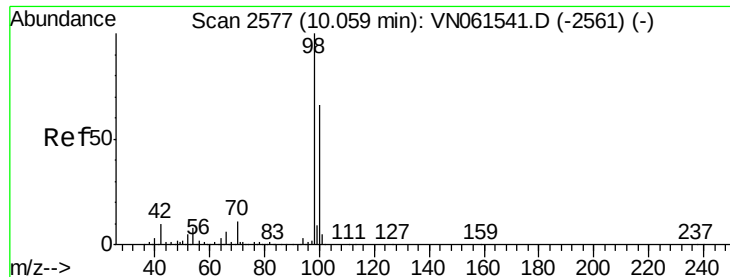
Tgt Ion: 63 Resp: 1285
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#



#48
 Methyl methacrylate
 Concen: 1.12 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. -0.02 min
 Lab File: VN061701.D
 Acq: 8 Jun 2020 17:18

Tgt Ion: 41 Resp: 3368
 Ion Ratio Lower Upper
 41 100
 69 0.0 83.9 125.9#
 39 0.0 52.1 78.1#





#50

Toluene-d8

Concen: 52.53 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061701.D

Acq: 8 Jun 2020 17:18

Instrument :

MSVOA_N

ClientSampleId :

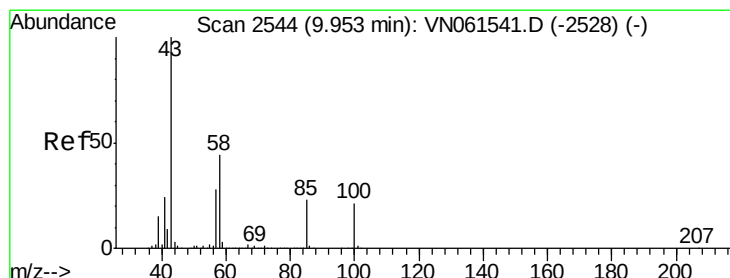
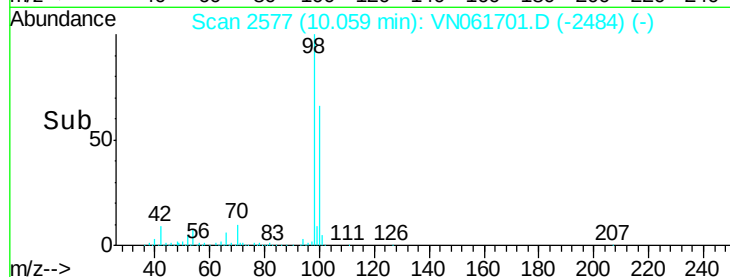
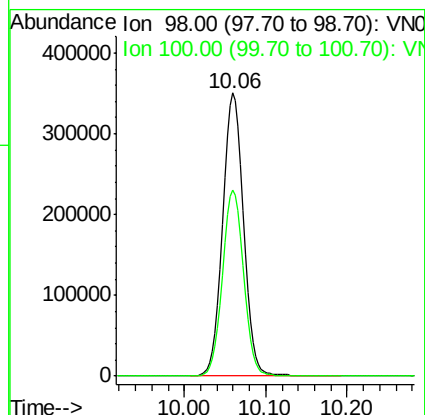
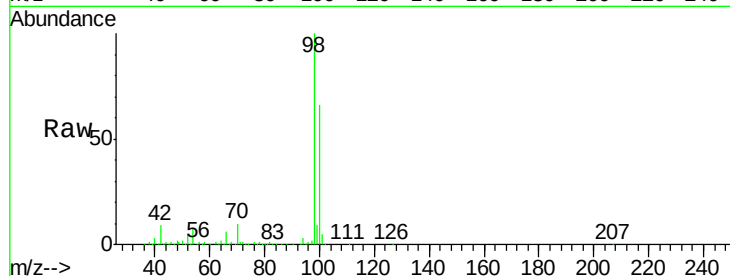
OR-02-060520

Tgt Ion: 98 Resp: 641543

Ion Ratio Lower Upper

98 100

100 66.3 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 2.54 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN061701.D

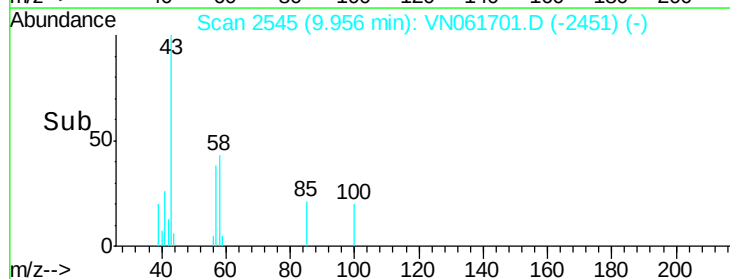
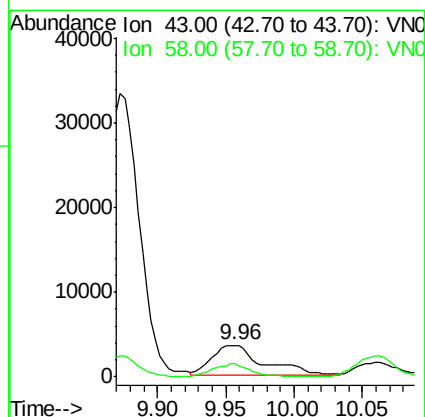
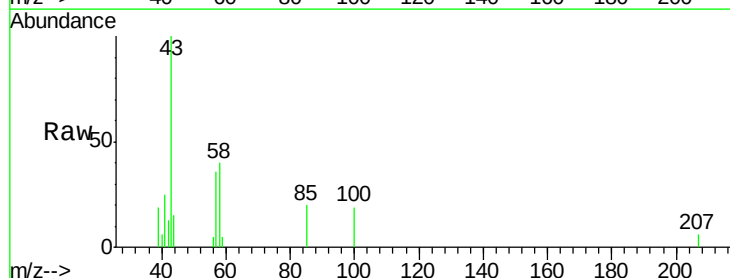
Acq: 8 Jun 2020 17:18

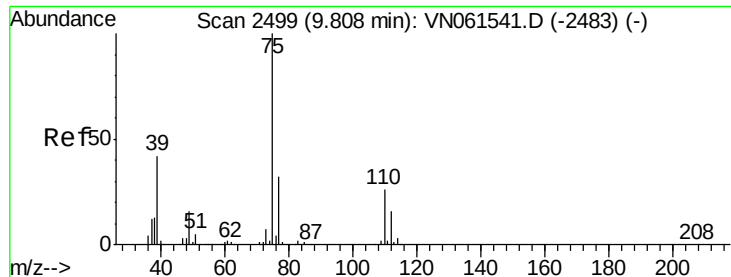
Tgt Ion: 43 Resp: 9521

Ion Ratio Lower Upper

43 100

58 30.6 35.0 52.6#

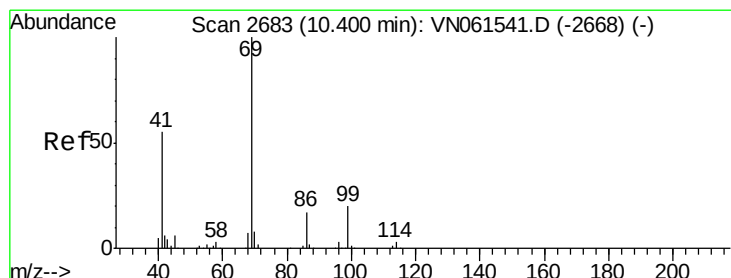
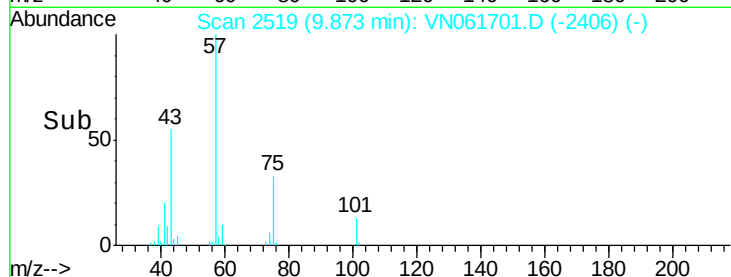
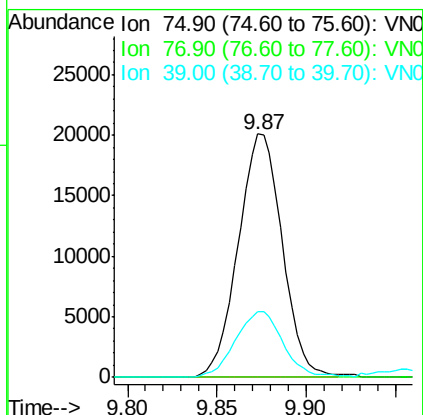
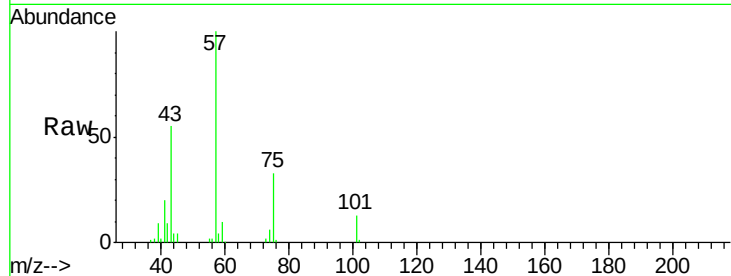




#54
 cis-1,3-Dichloropropene
 Concen: 5.85 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061701.D
 Acq: 8 Jun 2020 17:18

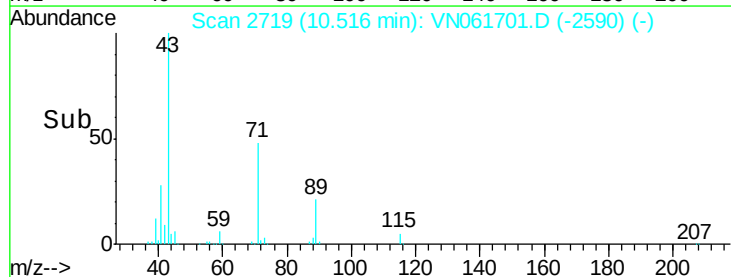
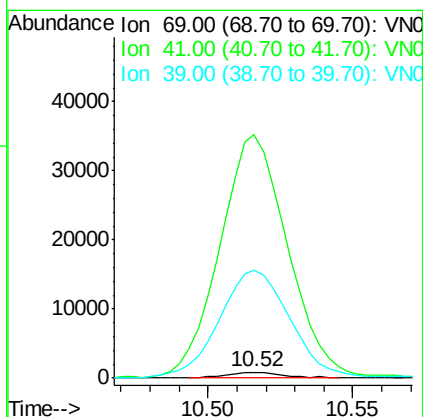
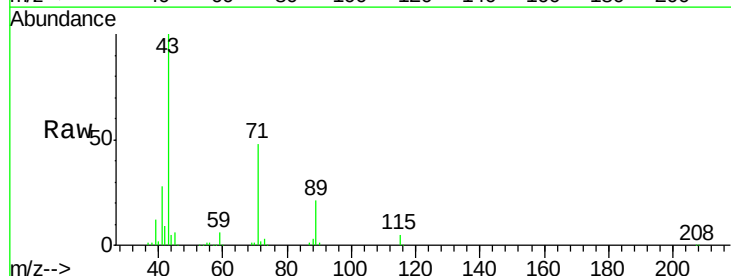
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-060520

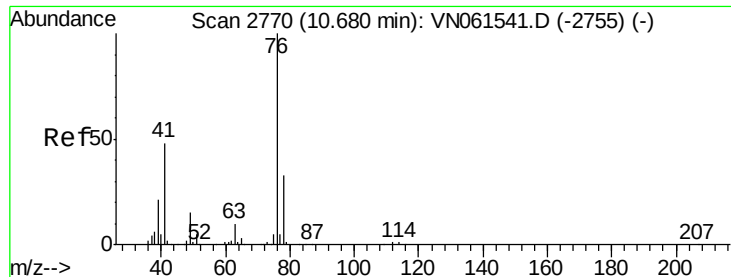
Tgt Ion: 75 Resp: 34689
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 26.8 33.8 50.6#



#56
 Ethyl methacrylate
 Concen: 0.21 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN061701.D
 Acq: 8 Jun 2020 17:18

Tgt Ion: 69 Resp: 1094
 Ion Ratio Lower Upper
 69 100
 41 5283.9 43.5 65.3#
 39 2438.4 27.0 40.6#





#57

1,3-Dichloropropane

Concen: 0.90 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061701.D

Acq: 8 Jun 2020 17:18

Instrument :

MSVOA_N

ClientSampleId :

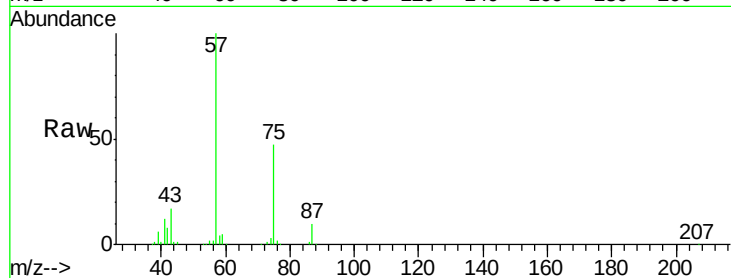
OR-02-060520

Tgt Ion: 76 Resp: 5287

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.74

4000

3000

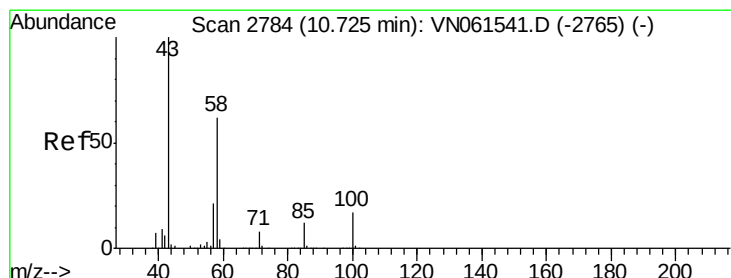
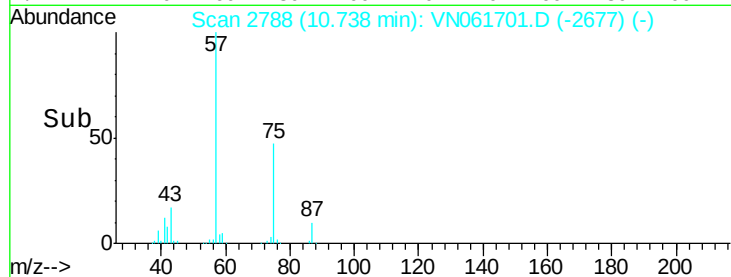
2000

1000

0

Time-->

10.70 10.75



#59

2-Hexanone

Concen: 20.96 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN061701.D

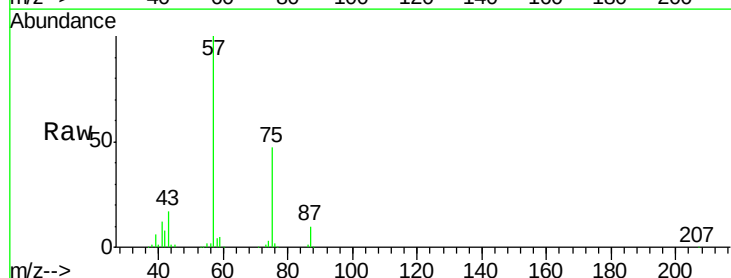
Acq: 8 Jun 2020 17:18

Tgt Ion: 43 Resp: 56528

Ion Ratio Lower Upper

43 100

58 22.9 30.7 92.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.74

40000

30000

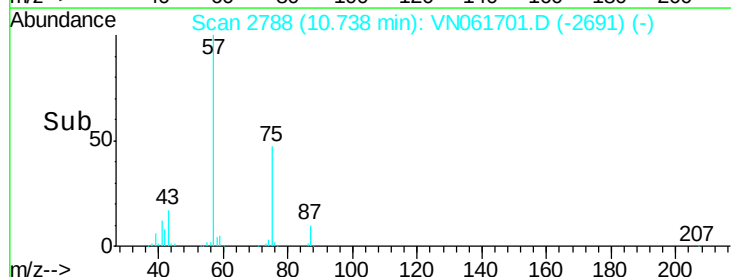
20000

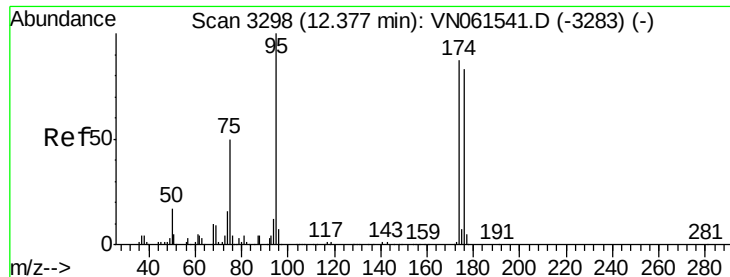
10000

0

Time-->

10.70 10.75 10.80

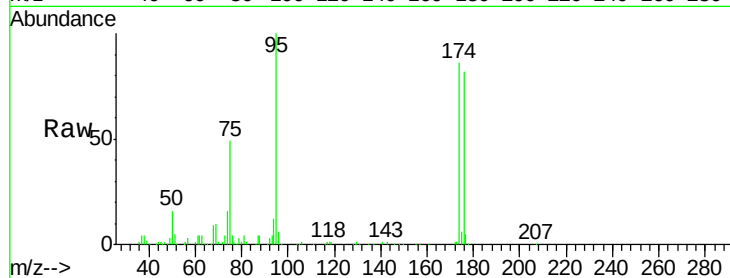




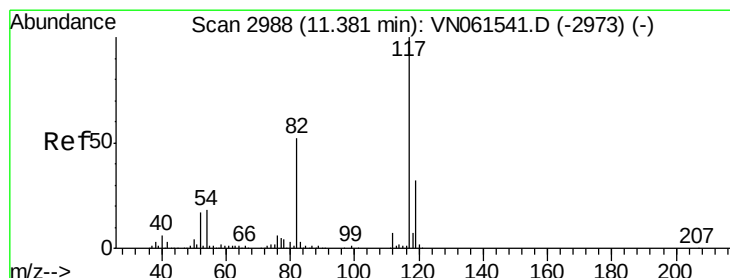
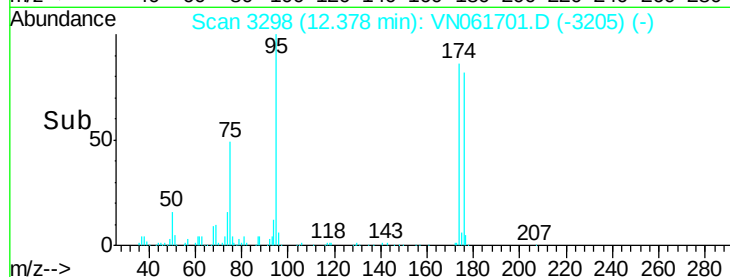
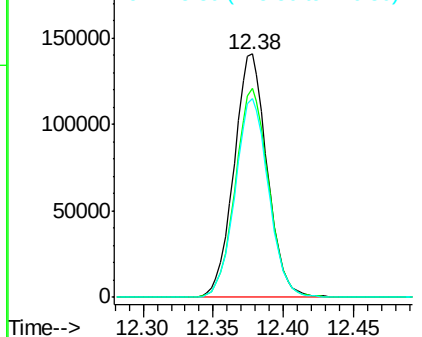
#62
4-Bromofluorobenzene
Concen: 52.22 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061701.D
Acq: 8 Jun 2020 17:18

Instrument :
MSVOA_N
ClientSampleId :
OR-02-060520

Tgt Ion: 95 Resp: 232662
Ion Ratio Lower Upper
95 100
174 85.8 0.0 172.8
176 82.1 0.0 164.8

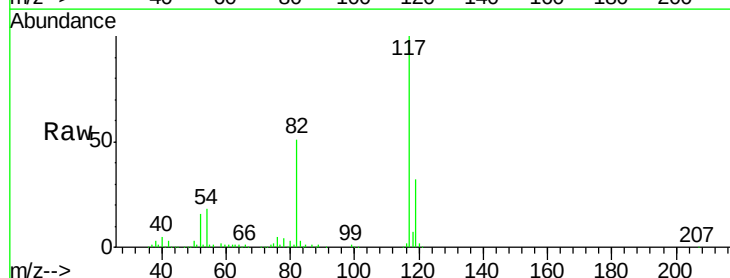


Abundance Ion 94.90 (94.60 to 95.60): VN061701.D (-3205) (-)
Ion 173.80 (173.50 to 174.50): VN061701.D (-3205) (-)
Ion 175.80 (175.50 to 176.50): VN061701.D (-3205) (-)

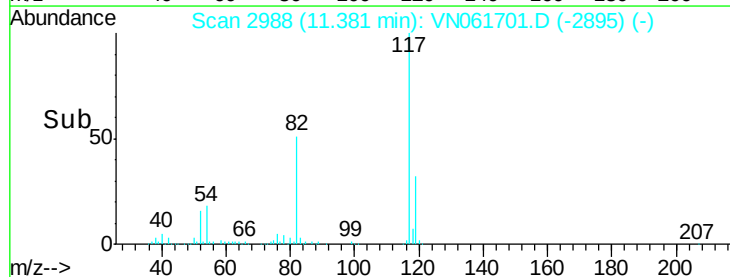
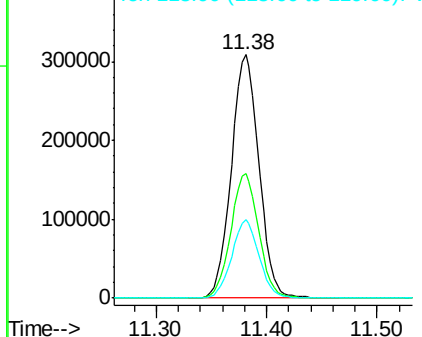


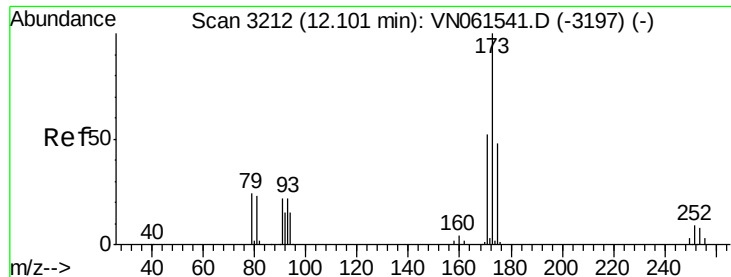
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061701.D
Acq: 8 Jun 2020 17:18

Tgt Ion: 117 Resp: 536665
Ion Ratio Lower Upper
117 100
82 51.1 41.5 62.3
119 32.3 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): VN061701.D (-2895) (-)
Ion 82.00 (81.70 to 82.70): VN061701.D (-2895) (-)
Ion 118.90 (118.60 to 119.60): VN061701.D (-2895) (-)





#71

Bromoform

Concen: 0.64 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061701.D

Acq: 8 Jun 2020 17:18

Instrument :

MSVOA_N

ClientSampleId :

OR-02-060520

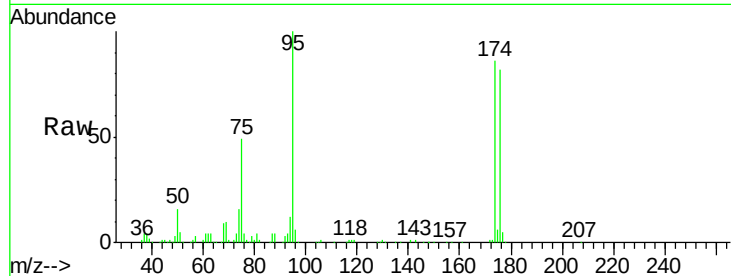
Tgt Ion:173 Resp: 2064

Ion Ratio Lower Upper

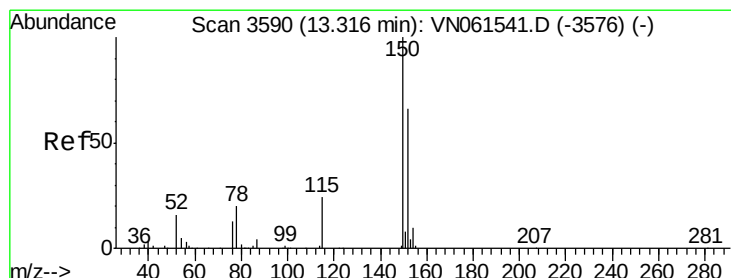
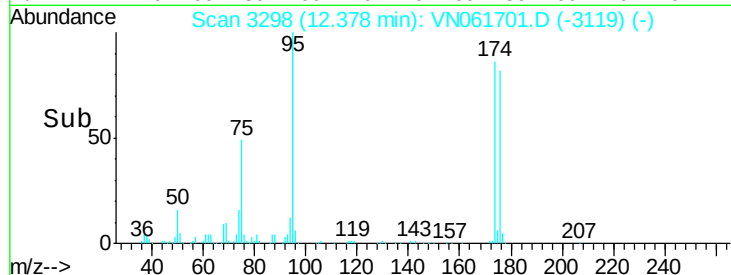
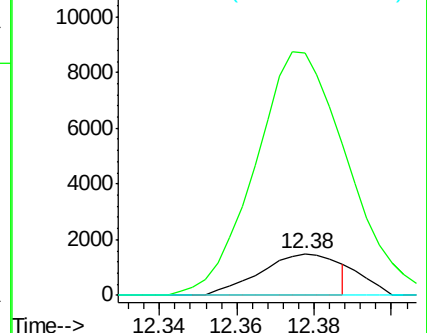
173 100

175 596.8 24.4 73.2#

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061701.D

Acq: 8 Jun 2020 17:18

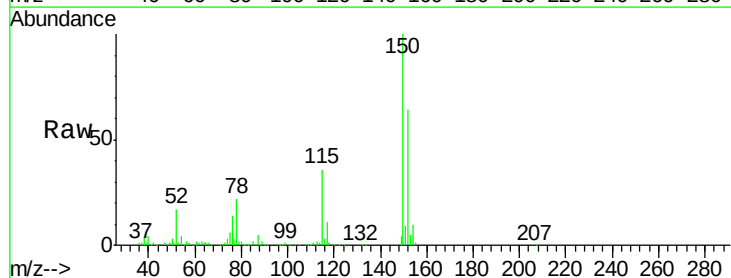
Tgt Ion:152 Resp: 244635

Ion Ratio Lower Upper

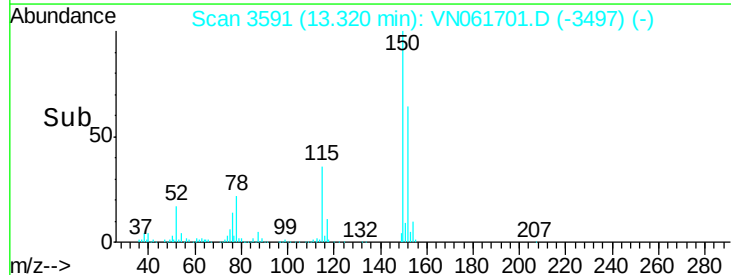
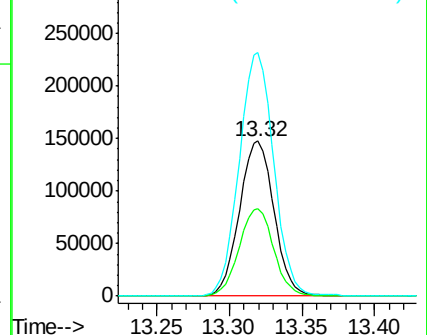
152 100

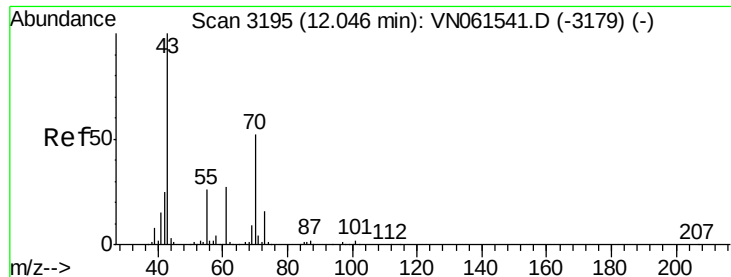
115 56.4 28.0 84.0

150 157.6 0.0 344.0



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: 0.40 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061701.D

Acq: 8 Jun 2020 17:18

Instrument :

MSVOA_N

ClientSampleId :

OR-02-060520

Tgt Ion: 43 Resp: 2242

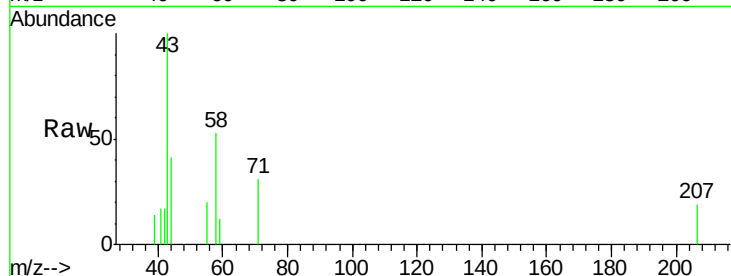
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 5.9 20.6 31.0#

61 0.0 21.8 32.6#

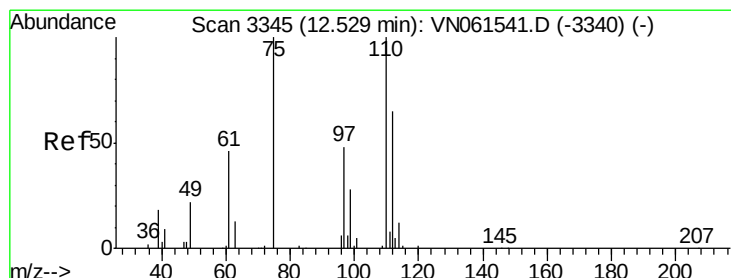
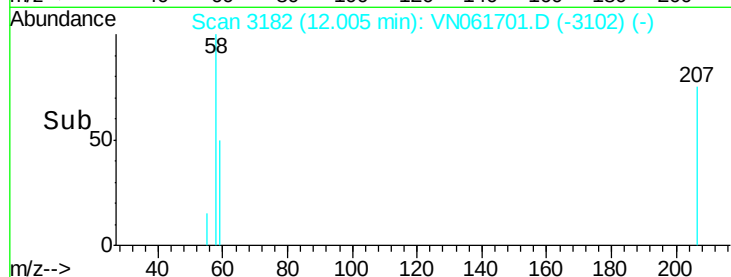
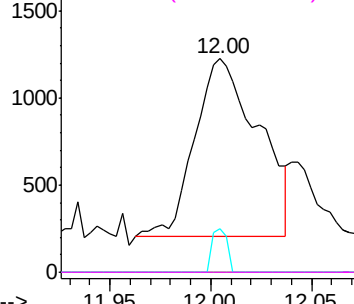


Abundance Ion 43.00 (42.70 to 43.70): VN061701.D (-3182) (-)

Ion 70.00 (69.70 to 70.70): VN061701.D (-3182) (-)

Ion 55.00 (54.70 to 55.70): VN061701.D (-3182) (-)

Ion 61.00 (60.70 to 61.70): VN061701.D (-3182) (-)



#76

1,2,3-Trichloropropane

Concen: 25.29 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061701.D

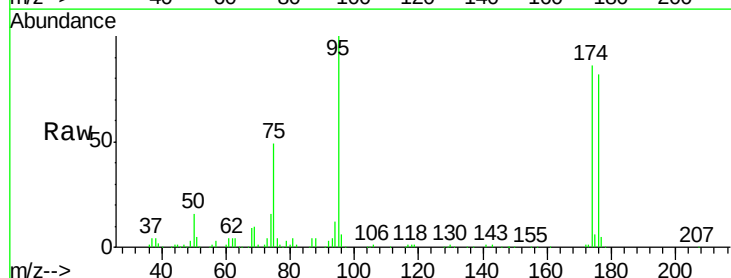
Acq: 8 Jun 2020 17:18

Tgt Ion: 75 Resp: 112512

Ion Ratio Lower Upper

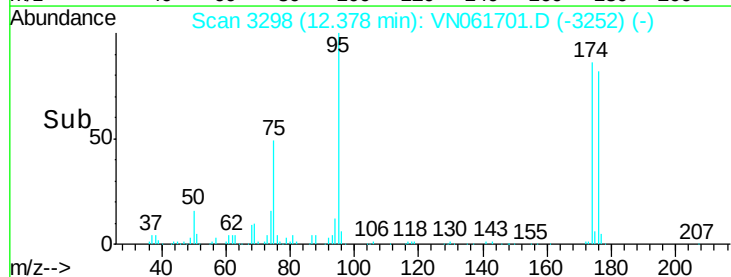
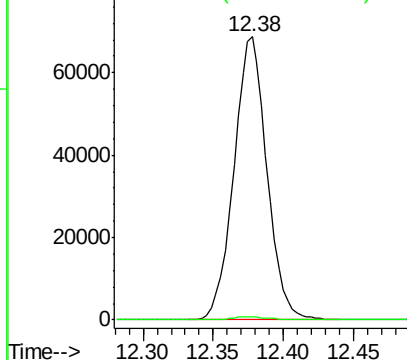
75 100

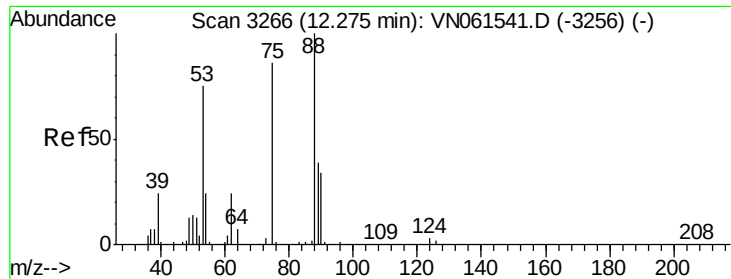
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061701.D (-3298) (-)

Ion 77.00 (76.70 to 77.70): VN061701.D (-3298) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 64.68 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061701.D

Acq: 8 Jun 2020 17:18

Instrument :

MSVOA_N

ClientSampleId :

OR-02-060520

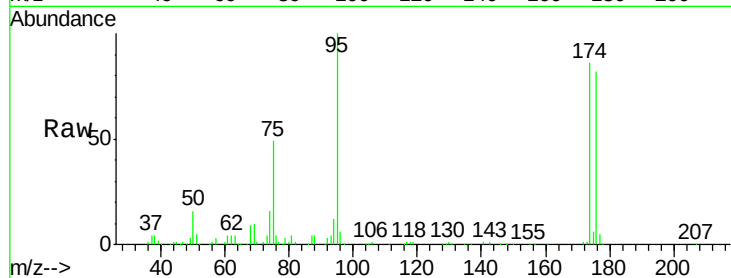
Tgt Ion: 75 Resp: 112512

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#



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

