

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073120\
 Data File : VN062694.D
 Acq On : 31 Jul 2020 18:43
 Operator : JC/MD
 Sample : L3511-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: Aug 01 06:07:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	127528	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	242826	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	241647	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	86321	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	113661	57.37	ug/l	0.00
Spiked Amount			Recovery	=	114.74%	
35) Dibromofluoromethane	7.55	113	79579	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
50) Toluene-d8	10.06	98	315075	49.51	ug/l	0.00
Spiked Amount			Recovery	=	99.02%	
62) 4-Bromofluorobenzene	12.38	95	114908	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	

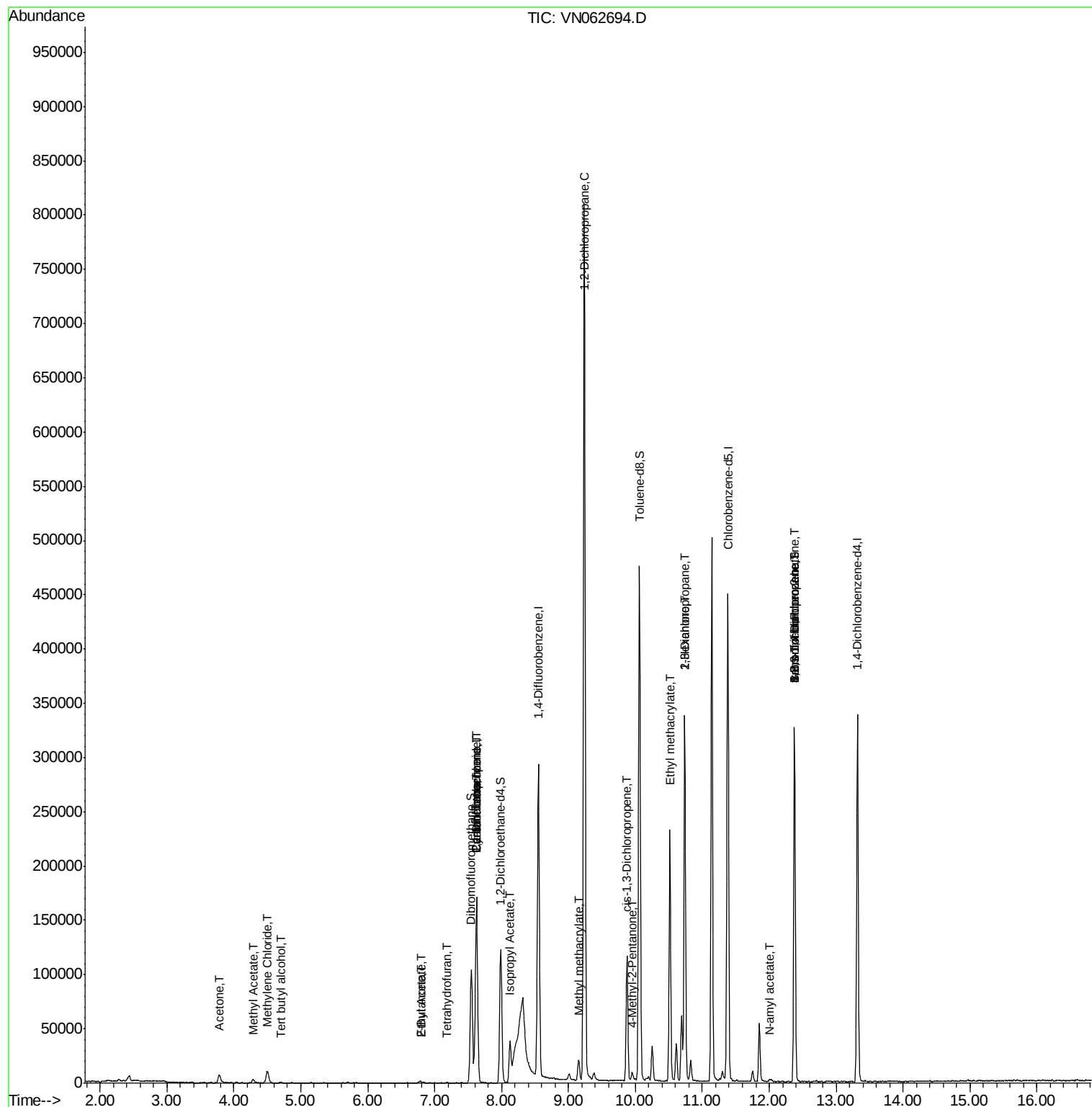
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	249	0.790	ug/l #	73
16) Acetone	3.78	43	13535	18.156	ug/l	100
18) Methyl Acetate	4.29	43	5577	2.955	ug/l	96
20) Methylene Chloride	4.51	84	7917	4.428	ug/l	90
25) 2-Butanone	6.80	43	1687	1.486	ug/l #	52
29) Tetrahydrofuran	7.18	42	332	0.432	ug/l #	38
31) Cyclohexane	7.63	56	3257	1.116	ug/l #	34
36) 1,1-Dichloropropene	7.63	75	11634	4.495	ug/l #	47
37) Ethyl Acetate	6.80	43	1687	0.605	ug/l #	69
38) Carbon Tetrachloride	7.63	117	14255	5.730	ug/l #	17
43) Isopropyl Acetate	8.13	43	47967	10.665	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	1010	0.459	ug/l #	44
48) Methyl methacrylate	9.15	41	3073	1.437	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	4648	1.727	ug/l	88
54) cis-1,3-Dichloropropene	9.88	75	19759	6.004	ug/l #	62
56) Ethyl methacrylate	10.51	69	1233	2.144	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3332	1.031	ug/l #	42
59) 2-Hexanone	10.74	43	47828	25.667	ug/l #	55
71) Bromoform	12.37	173	384	0.268	ug/l #	1
74) N-amyl acetate	12.01	43	2320	0.761	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	63437	28.872	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	63437	80.373	ug/l #	12

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

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Quant Title : SW846 8260
QLast Update : Tue Jul 21 18:48:59 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: VN062694.D

Acq: 31 Jul 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

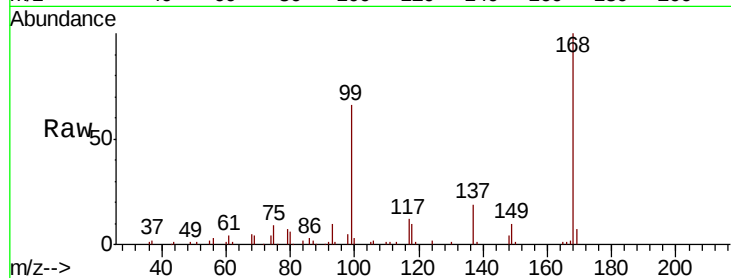
TP-2

Tot Ion:168 Resp: 127528

Ion Ratio Lower Upper

168 100

99 66.5 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

50000

40000

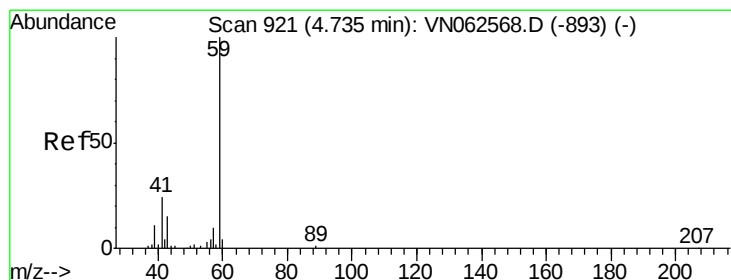
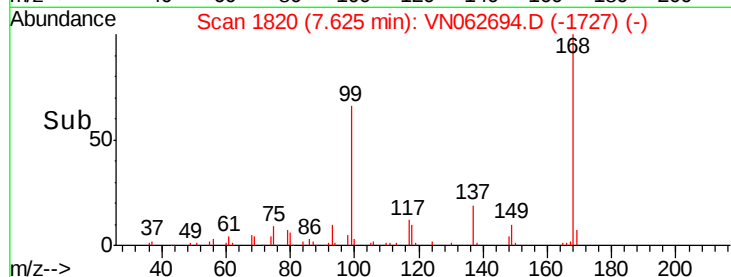
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.790 ug/l

RT: 4.71 min Scan# 912

Delta R.T. -0.03 min

Lab File: VN062694.D

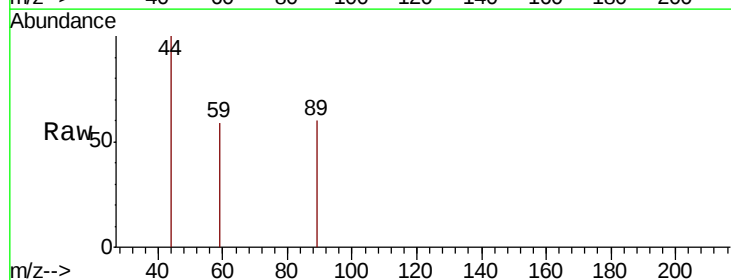
Acq: 31 Jul 2020 18:43

Tgt Ion: 59 Resp: 249

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.71

200

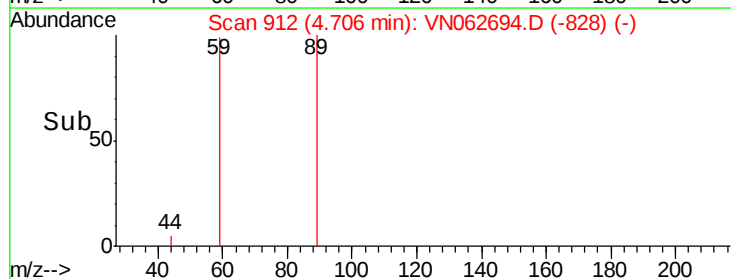
150

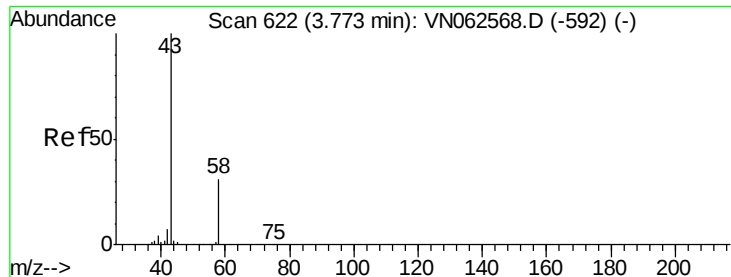
100

50

0

Time--> 4.68 4.70 4.72





#16

Acetone

Concen: 18.156 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062694.D

Acq: 31 Jul 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

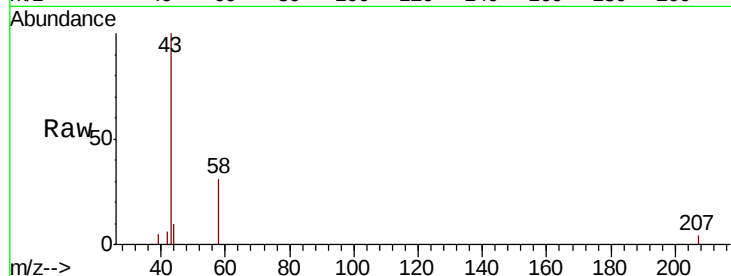
TP-2

Tot Ion: 43 Resp: 13535

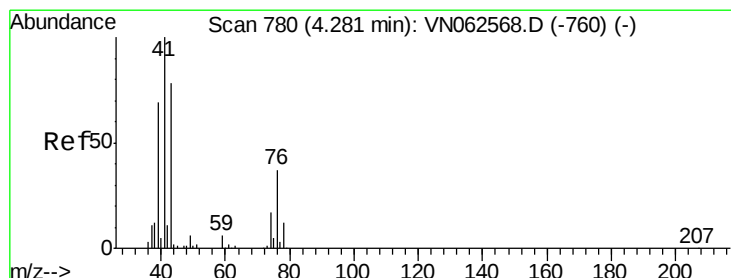
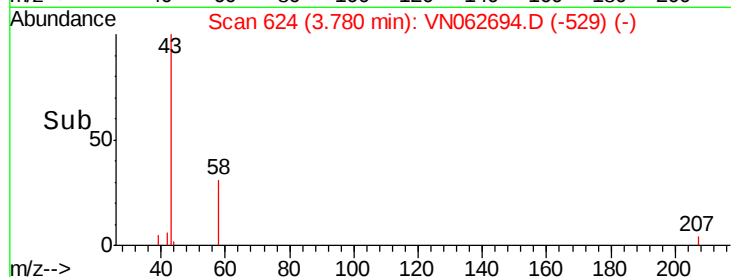
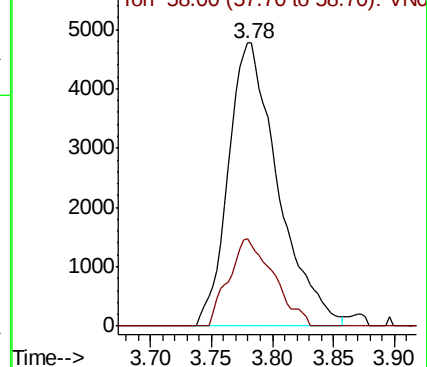
Ion Ratio Lower Upper

43 100

58 30.8 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN062694.D (-529) (-)



#18

Methyl Acetate

Concen: 2.955 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN062694.D

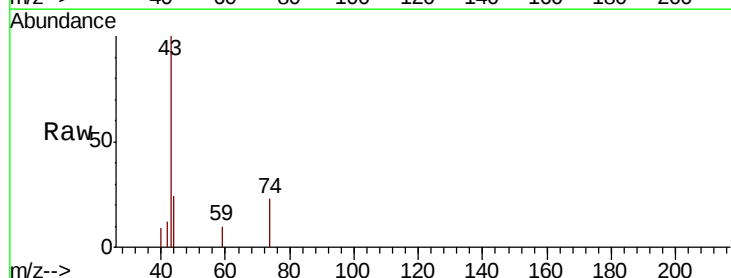
Acq: 31 Jul 2020 18:43

Tgt Ion: 43 Resp: 5577

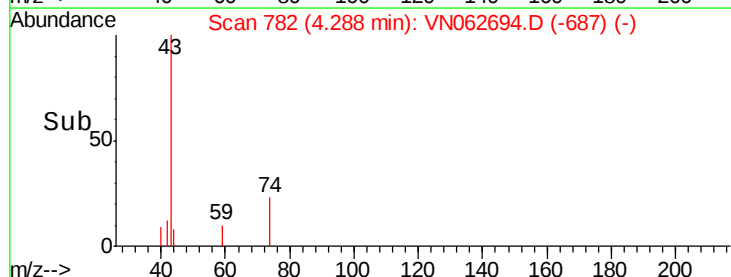
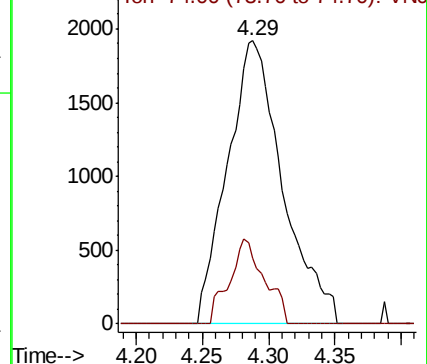
Ion Ratio Lower Upper

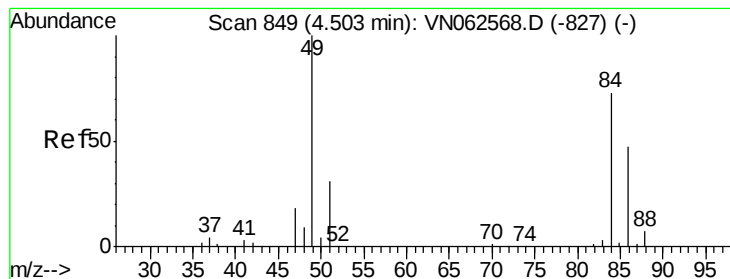
43 100

74 19.0 16.6 24.8



Abundance Ion 43.00 (42.70 to 43.70): VN062694.D (-687) (-)





#20

Methvlene Chloride

Concen: 4.428 ug/l

RT: 4.51 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN062694.D

Acq: 31 Jul 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

TP-2

Tot Ion: 84 Resp: 7917

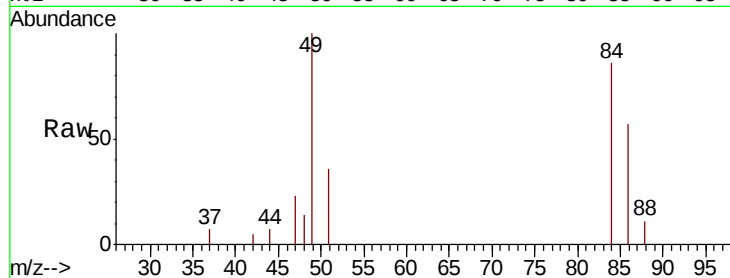
Ion Ratio Lower Upper

84 100

49 116.6 109.4 164.0

51 42.3 33.6 50.4

86 66.5 51.4 77.2

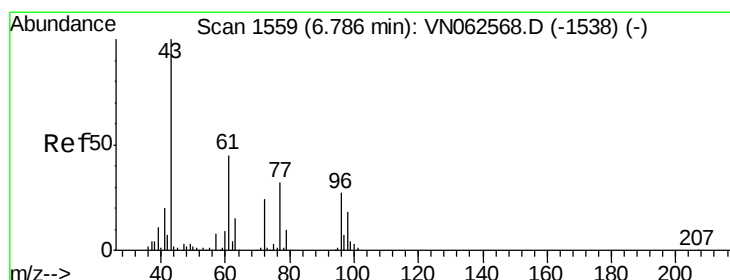
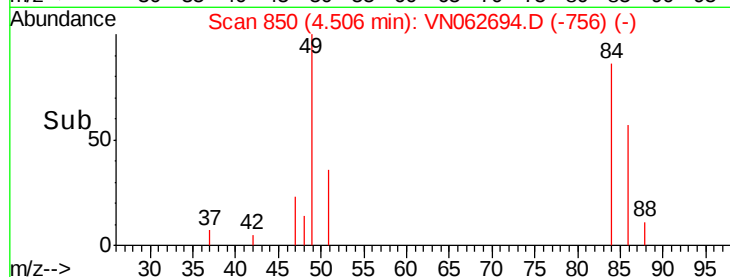
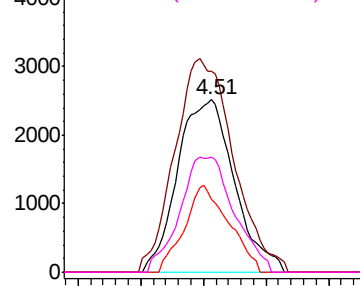


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 1.486 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.02 min

Lab File: VN062694.D

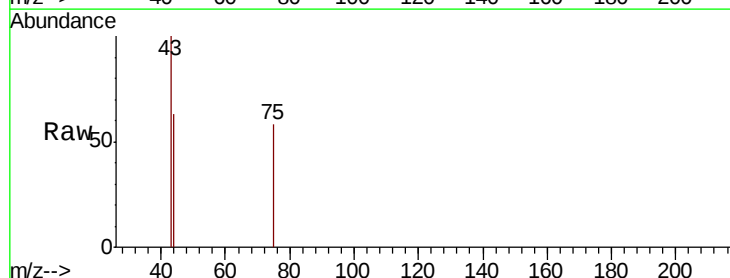
Acq: 31 Jul 2020 18:43

Tgt Ion: 43 Resp: 1687

Ion Ratio Lower Upper

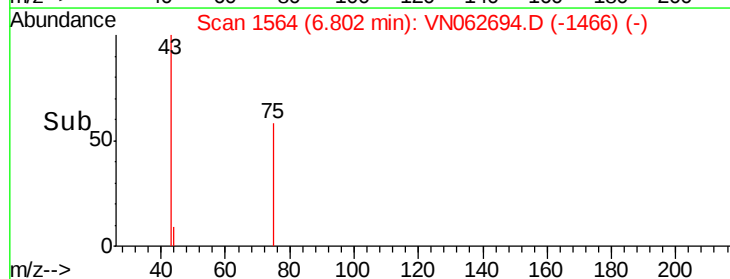
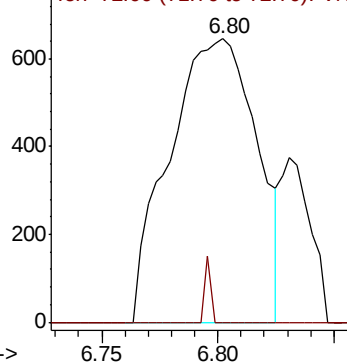
43 100

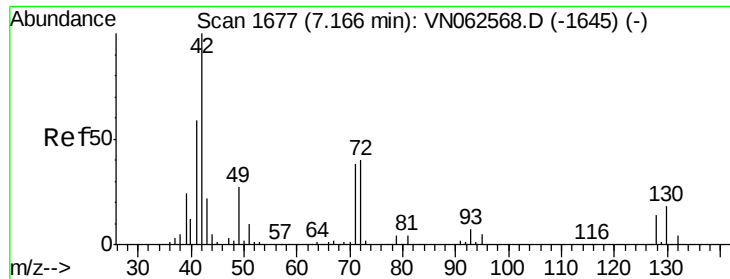
72 0.0 19.0 28.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.432 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.02 min

Lab File: VN062694.D

Acq: 31 Jul 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

TP-2

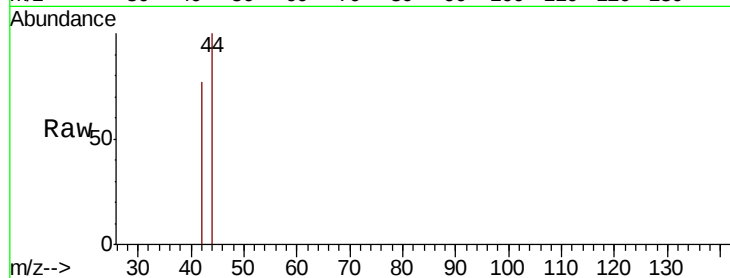
Tot Ion: 42 Resp: 332

Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

71 0.0 29.1 43.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

7.18

250

200

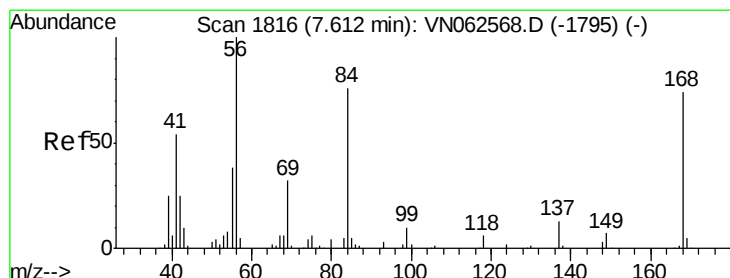
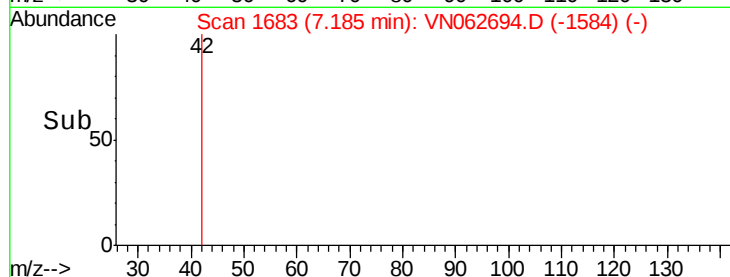
150

100

50

0

Time-->



#31

Cyclohexane

Concen: 1.116 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

Lab File: VN062694.D

Acq: 31 Jul 2020 18:43

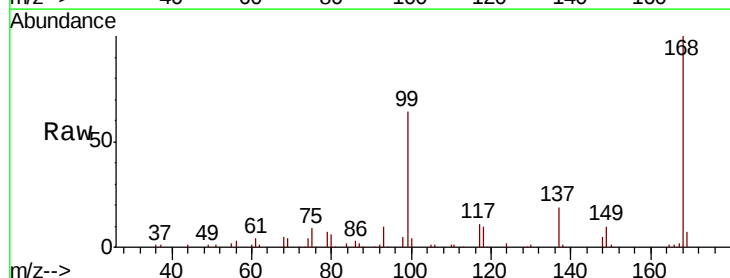
Tgt Ion: 56 Resp: 3257

Ion Ratio Lower Upper

56 100

69 145.1 25.3 37.9#

84 83.5 61.0 91.4



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

7.63

3000

2500

2000

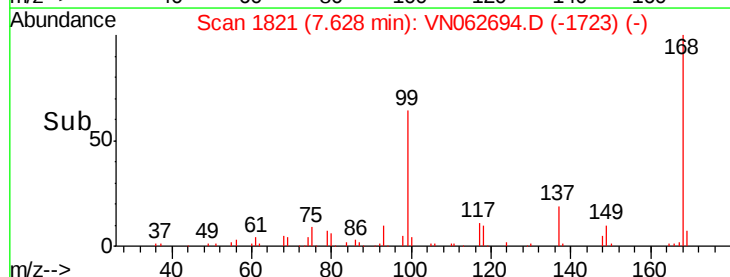
1500

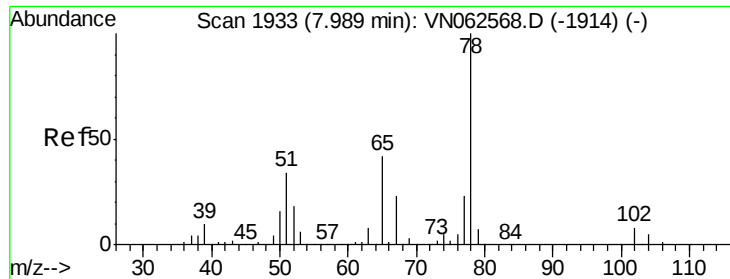
1000

500

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 57.373 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN062694.D

Acq: 31 Jul 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

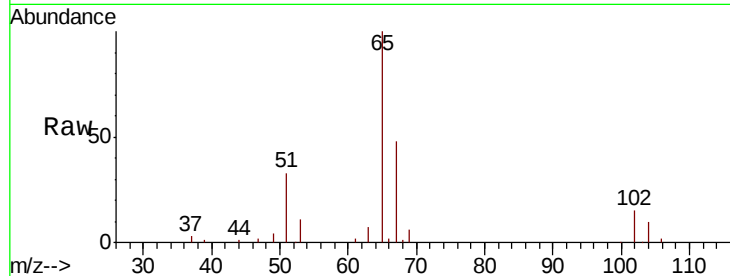
TP-2

Tot Ion: 65 Resp: 113661

Ion Ratio Lower Upper

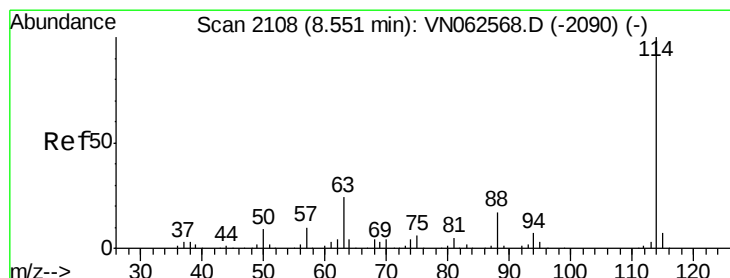
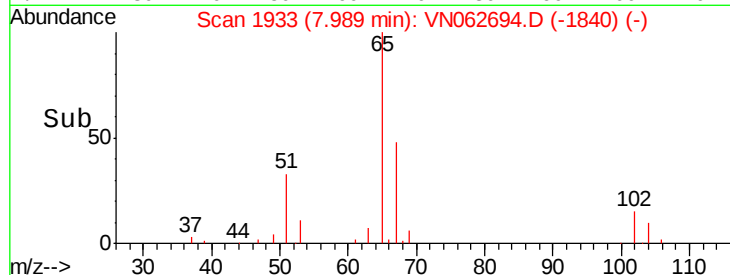
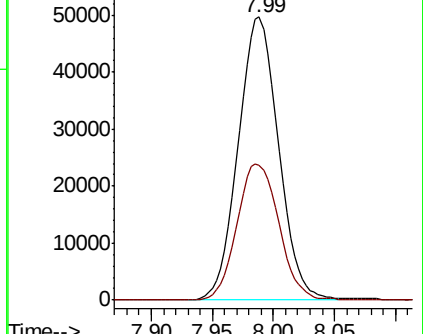
65 100

67 50.2 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN062568.D (-1914) (-)

Ion 66.90 (66.60 to 67.60): VN062568.D (-1914) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062694.D

Acq: 31 Jul 2020 18:43

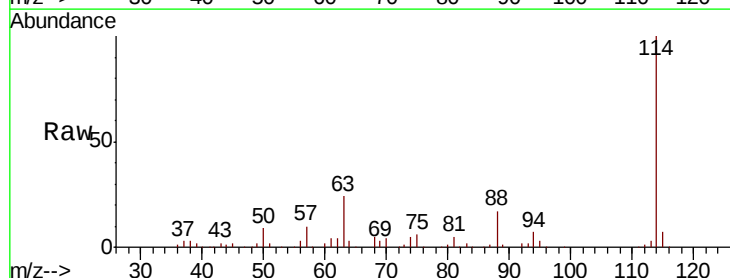
Tgt Ion: 114 Resp: 242826

Ion Ratio Lower Upper

114 100

63 23.5 0.0 48.4

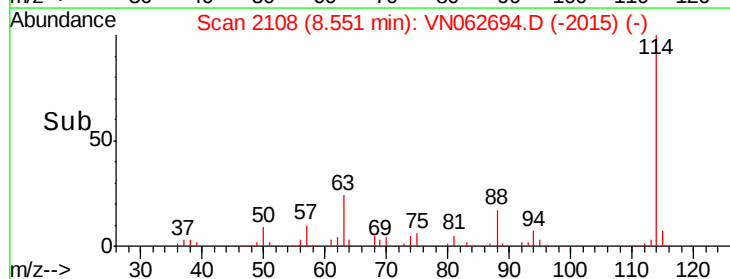
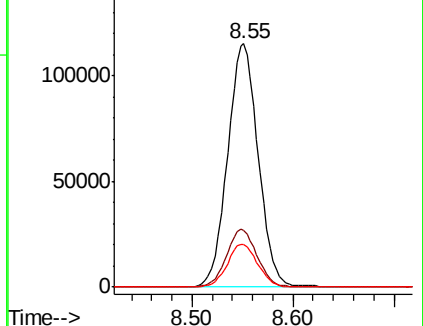
88 17.4 0.0 33.8

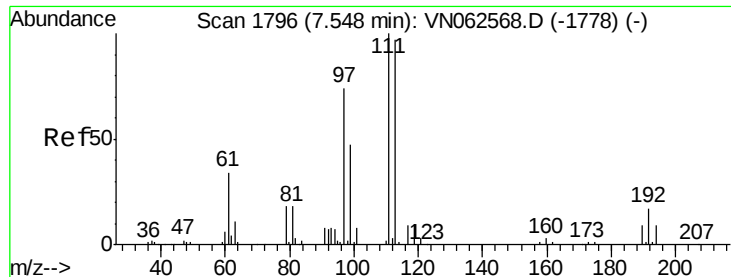


Abundance Ion 113.90 (113.60 to 114.60): VN062568.D (-2090) (-)

Ion 63.00 (62.70 to 63.70): VN062568.D (-2090) (-)

Ion 87.90 (87.60 to 88.60): VN062568.D (-2090) (-)

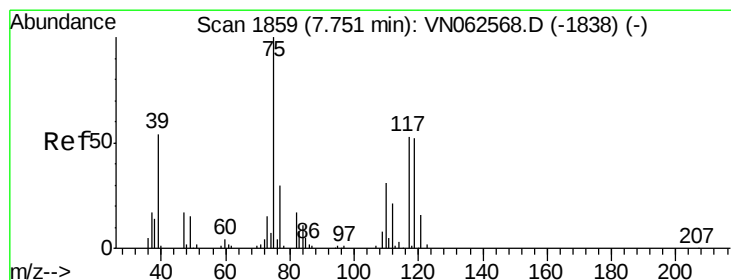
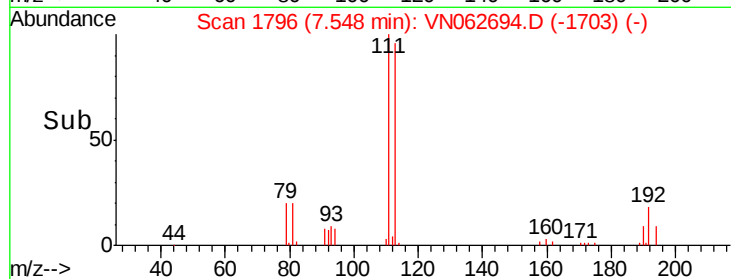
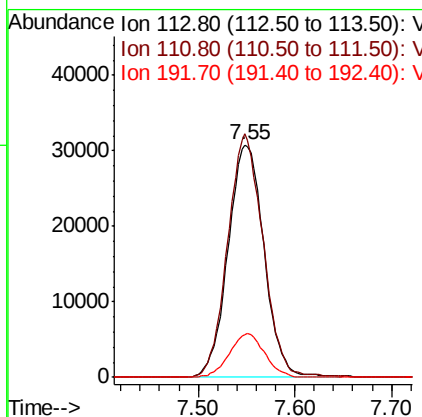
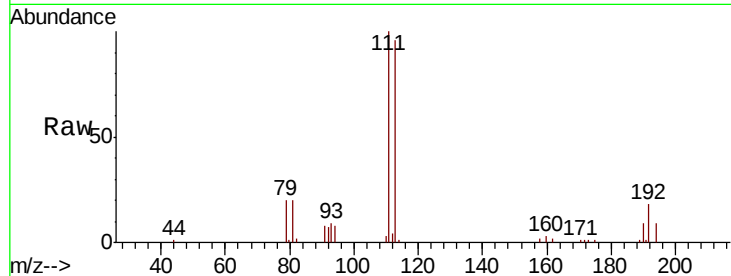




#35
 Dibromofluoromethane
 Concen: 49.892 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062694.D
 Acq: 31 Jul 2020 18:43

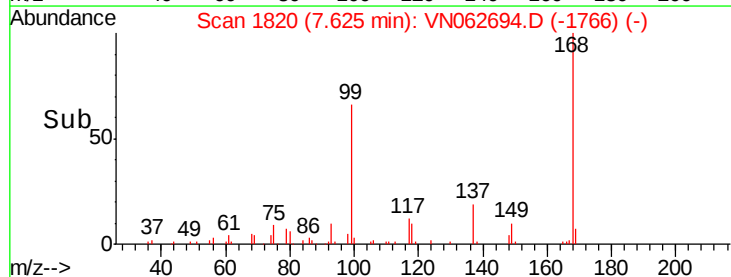
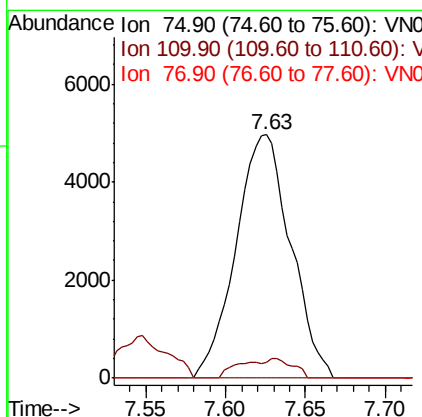
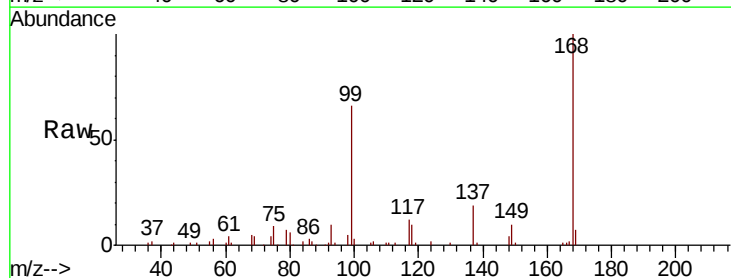
Instrument :
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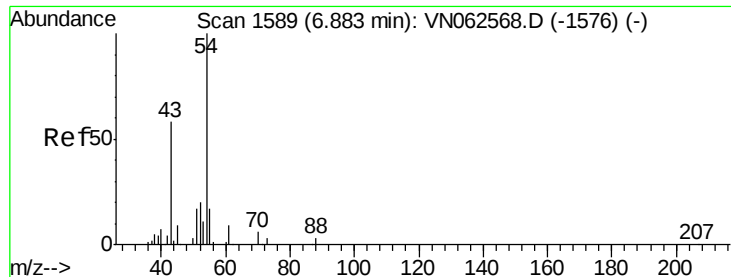
Tot Ion:113 Resp: 79579
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.7 124.1
 192 18.4 14.8 22.2



#36
 1,1-Dichloropropene
 Concen: 4.495 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062694.D
 Acq: 31 Jul 2020 18:43

Tgt Ion: 75 Resp: 11634
 Ion Ratio Lower Upper
 75 100
 110 4.0 16.0 48.0#
 77 0.0 24.6 36.8#

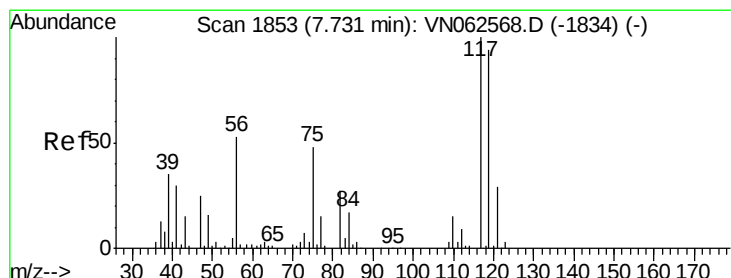
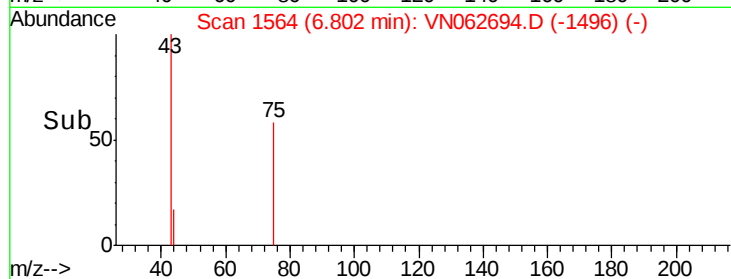
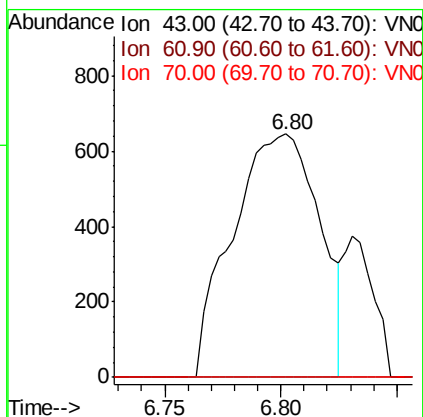
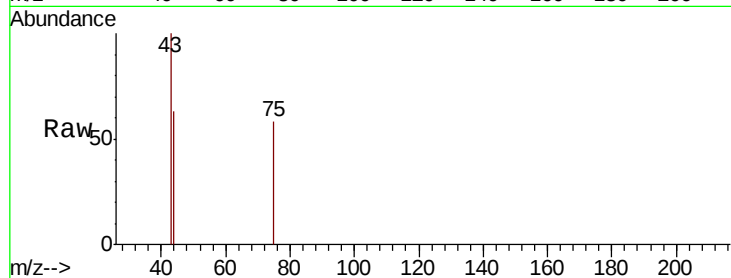




#37
Ethyl Acetate
Concen: 0.605 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.08 min
Lab File: VN062694.D
Acq: 31 Jul 2020 18:43

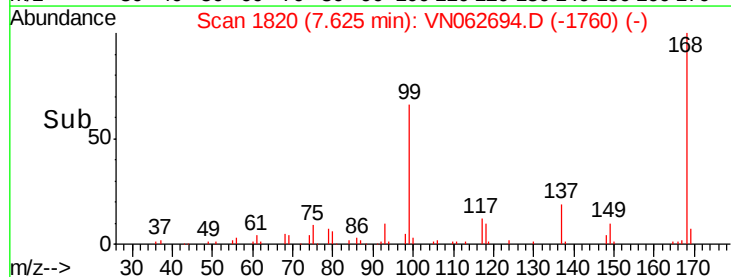
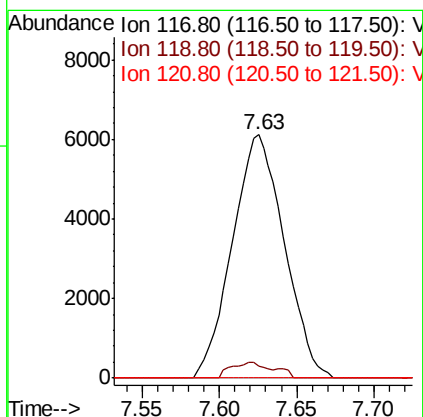
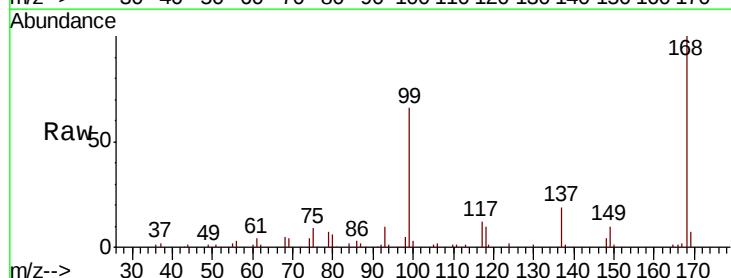
Instrument :
MSVOA_N
ClientSampleId :
TP-2

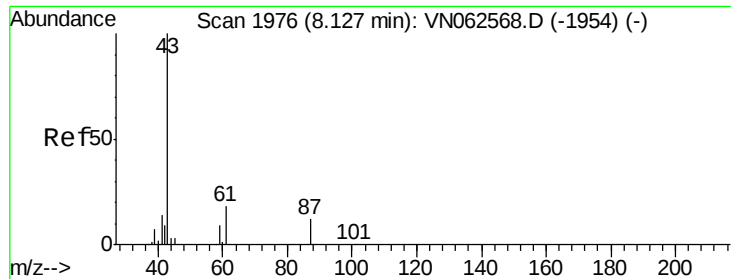
Tot Ion: 43 Resp: 1687
Ion Ratio Lower Upper
43 100
61 0.0 11.3 16.9#
70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 5.730 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN062694.D
Acq: 31 Jul 2020 18:43

Tgt Ion: 117 Resp: 14255
Ion Ratio Lower Upper
117 100
119 5.1 74.8 112.2#
121 0.0 23.0 34.6#





#43

Isopropyl Acetate

Concen: 10.665 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062694.D

Acq: 31 Jul 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

TP-2

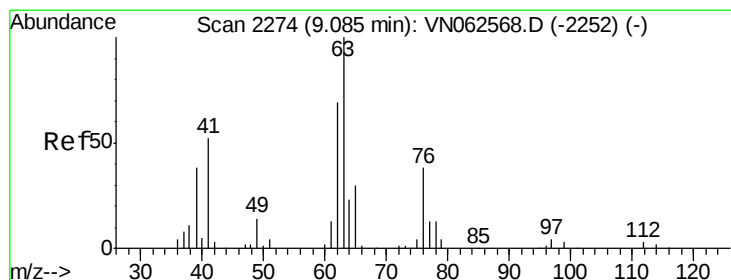
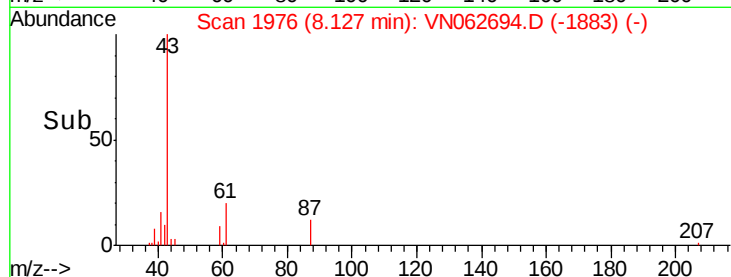
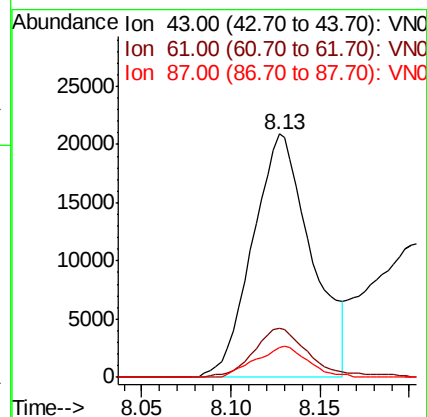
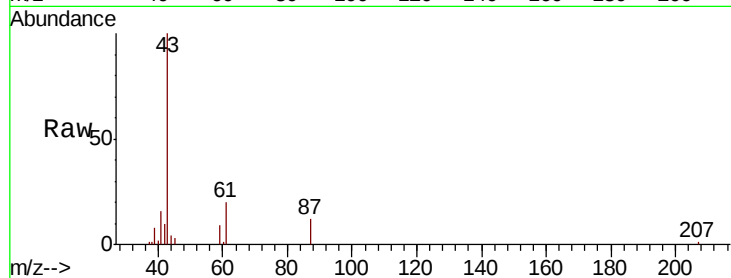
Tot Ion: 43 Resp: 47967

Ion Ratio Lower Upper

43 100

61 18.7 20.8 31.2#

87 11.3 9.2 13.8



#45

1,2-Dichloropropane

Concen: 0.459 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062694.D

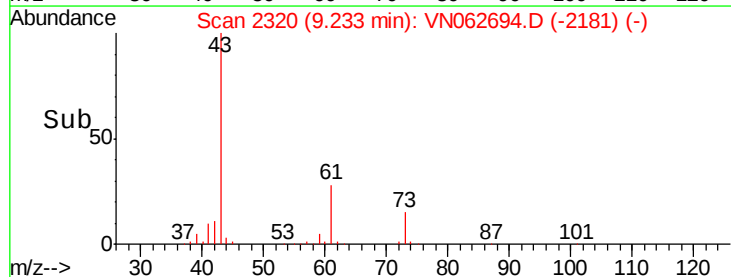
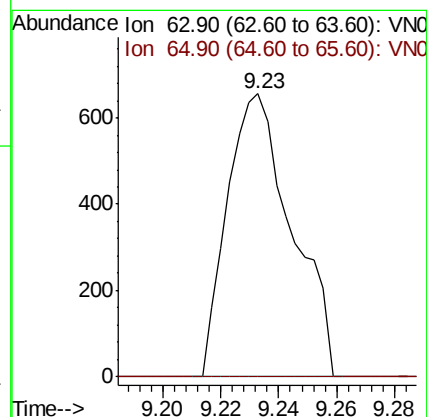
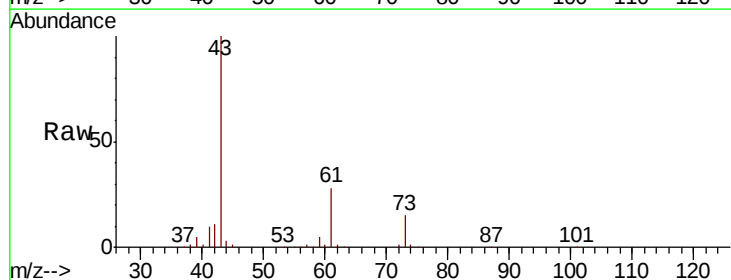
Acq: 31 Jul 2020 18:43

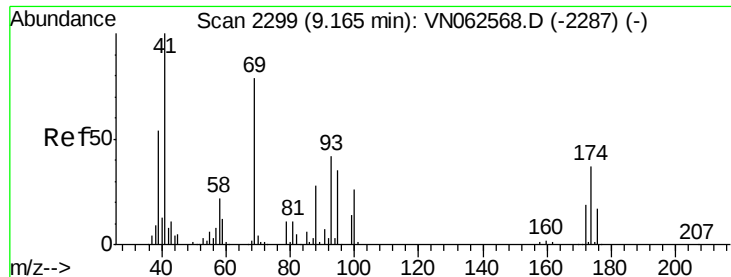
Tgt Ion: 63 Resp: 1010

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#

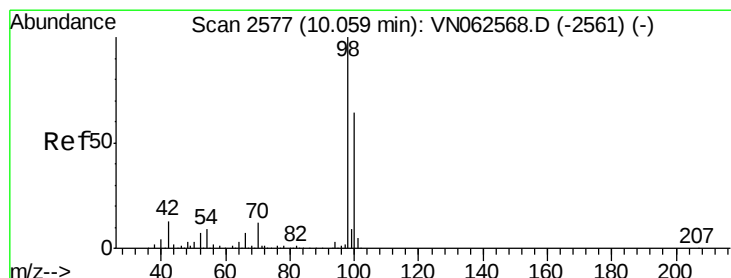
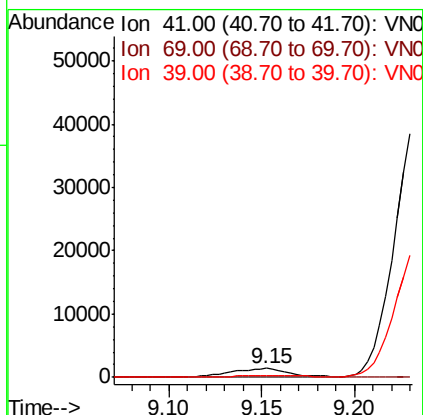
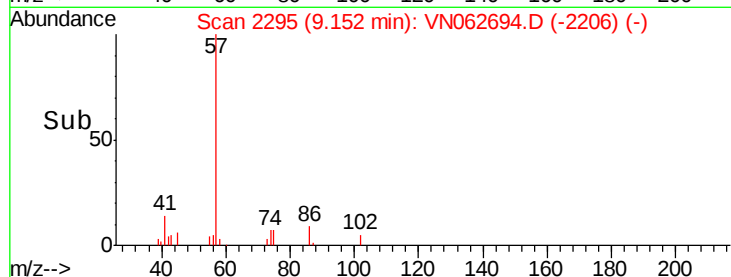
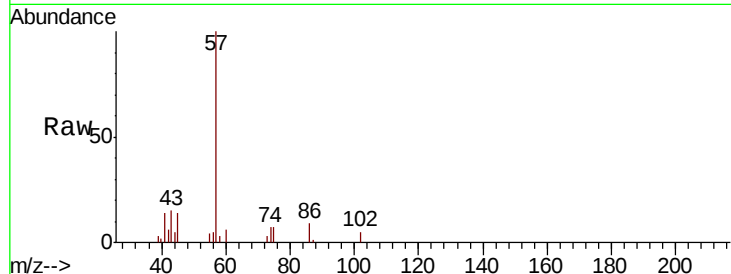




#48
Methvl methacrylate
Concen: 1.437 ug/l
RT: 9.15 min Scan# 2295
Delta R.T. -0.01 min
Lab File: VN062694.D
Acq: 31 Jul 2020 18:43

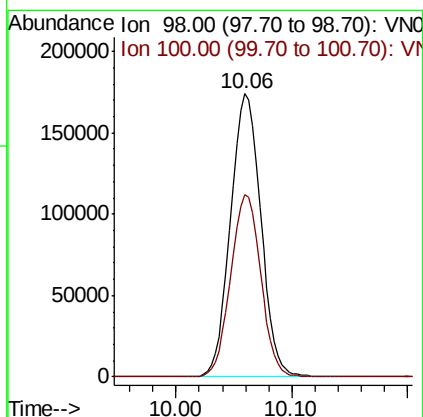
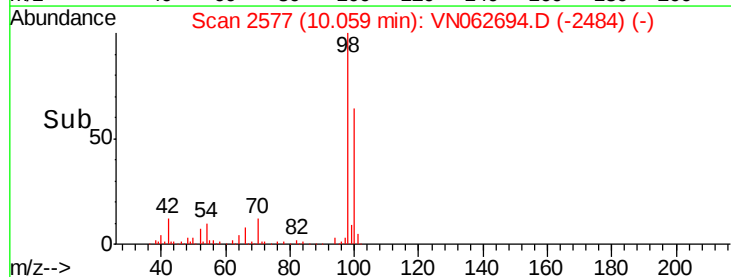
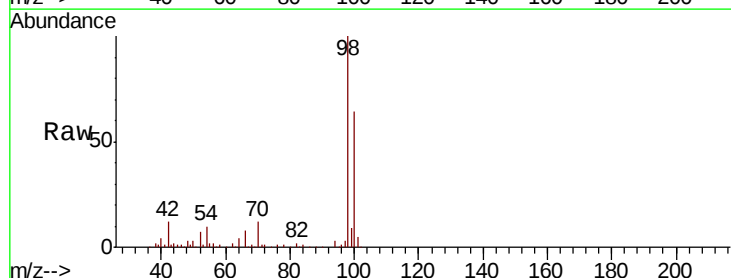
Instrument :
MSVOA_N
ClientSampled :
TP-2

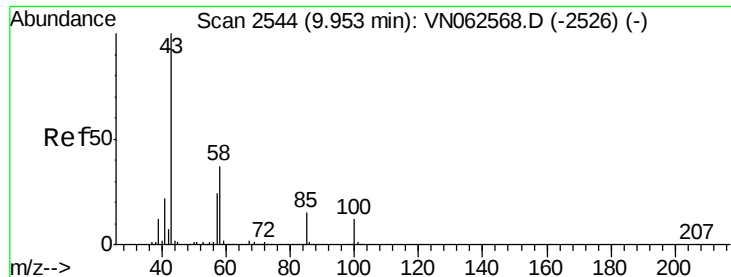
Tot Ion: 41 Resp: 3073
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 43.5 65.3#



#50
Toluene-d8
Concen: 49.509 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062694.D
Acq: 31 Jul 2020 18:43

Tgt Ion: 98 Resp: 315075
Ion Ratio Lower Upper
98 100
100 63.9 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 1.727 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062694.D

Acq: 31 Jul 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

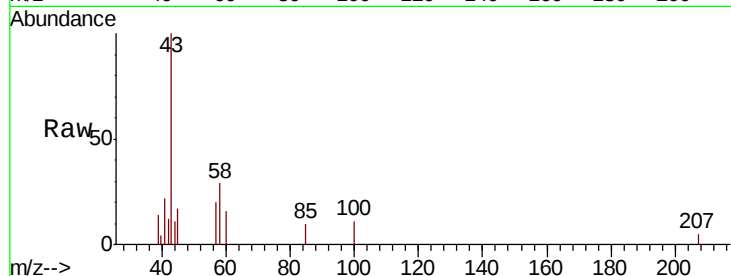
TP-2

Tot Ion: 43 Resp: 4648

Ion Ratio Lower Upper

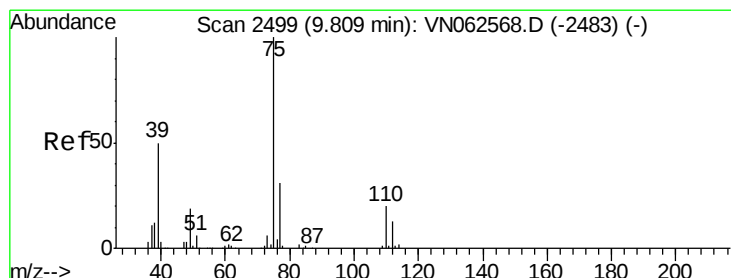
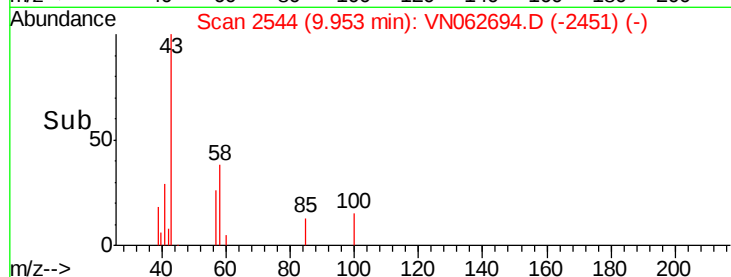
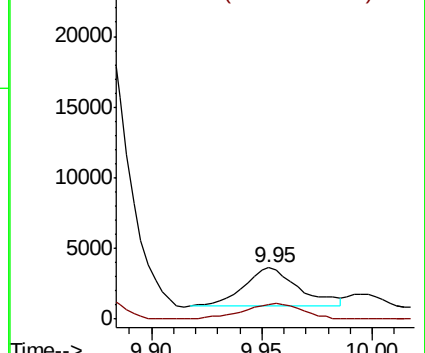
43 100

58 44.2 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN062568.D (-2526) (-)

Ion 58.00 (57.70 to 58.70): VN062568.D (-2526) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.004 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062694.D

Acq: 31 Jul 2020 18:43

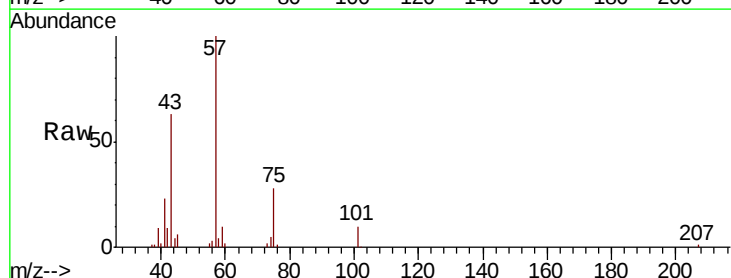
Tgt Ion: 75 Resp: 19759

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

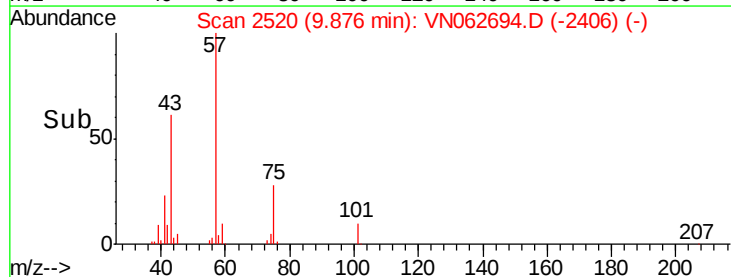
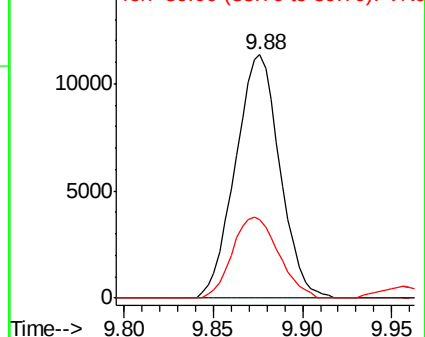
39 32.2 39.8 59.8#

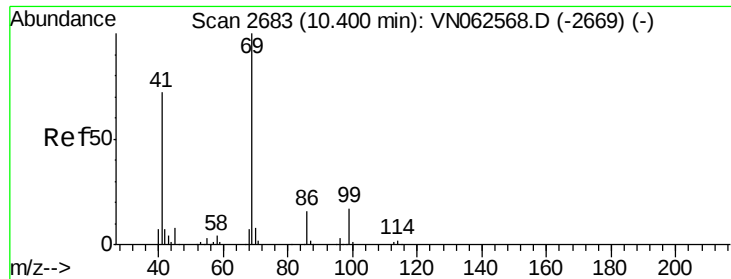


Abundance Ion 74.90 (74.60 to 75.60): VN062568.D (-2483) (-)

Ion 76.90 (76.60 to 77.60): VN062568.D (-2483) (-)

Ion 39.00 (38.70 to 39.70): VN062568.D (-2483) (-)





#56

Ethyl methacrylate

Concen: 2.144 ug/l

RT: 10.51 min Scan# 2717

Delta R.T. 0.11 min

Lab File: VN062694.D

Acq: 31 Jul 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

TP-2

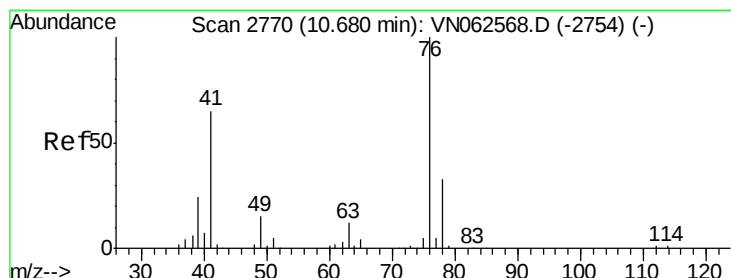
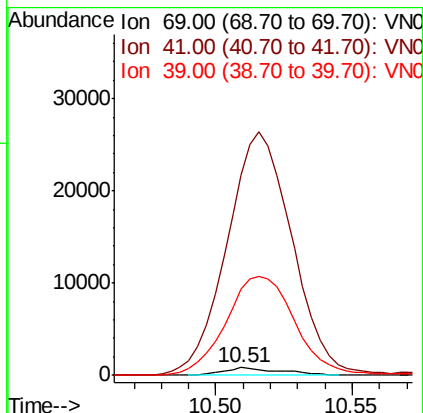
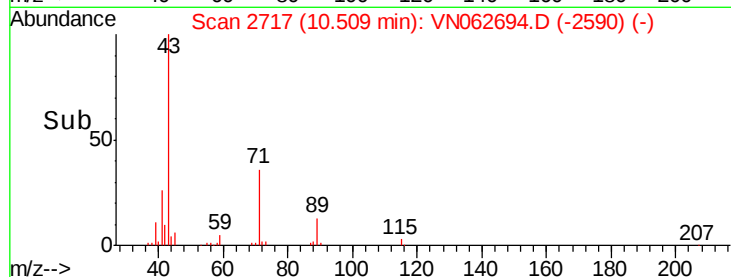
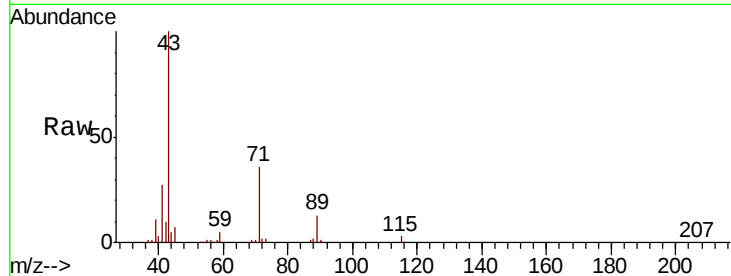
Tot Ion: 69 Resp: 1233

Ion Ratio Lower Upper

69 100

41 3564.9 57.2 85.8#

39 1535.4 28.6 43.0#



#57

1,3-Dichloropropane

Concen: 1.031 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.05 min

Lab File: VN062694.D

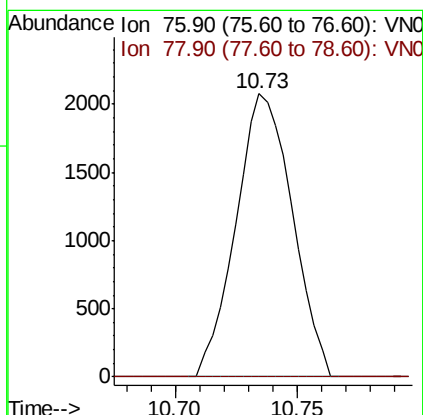
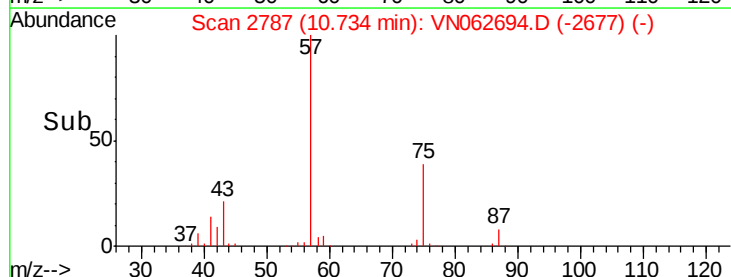
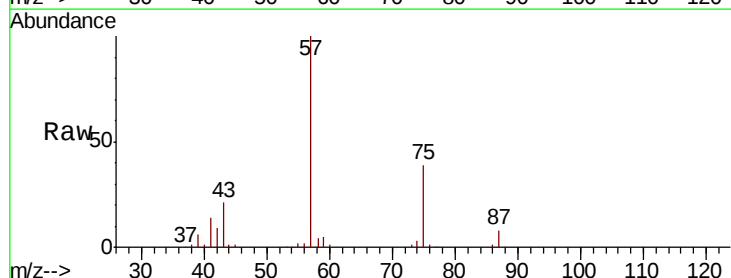
Acq: 31 Jul 2020 18:43

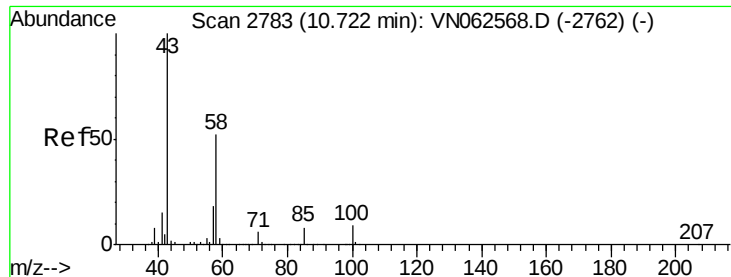
Tgt Ion: 76 Resp: 3332

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#

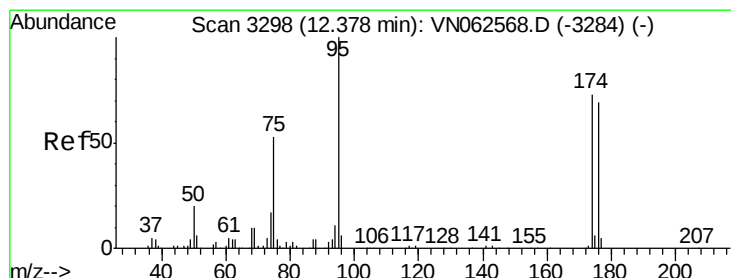
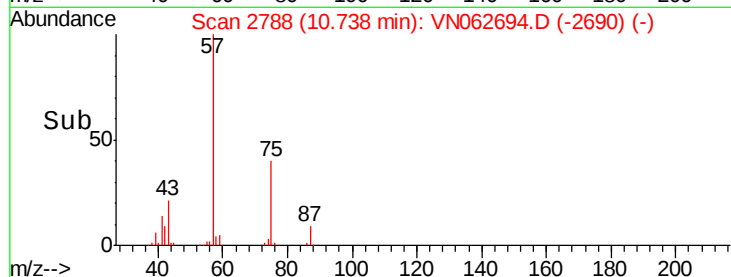
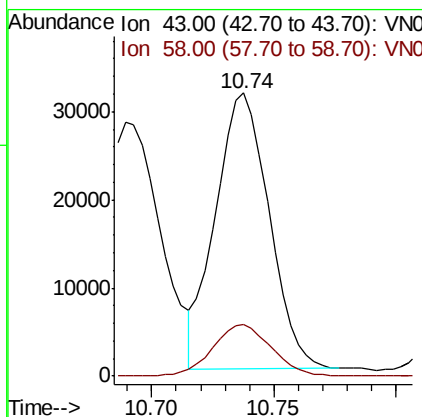
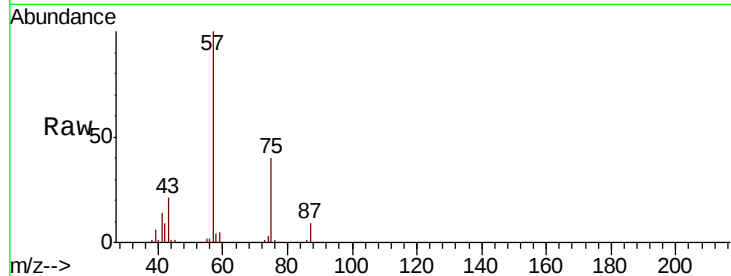




#59
2-Hexanone
Concen: 25.667 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062694.D
Acq: 31 Jul 2020 18:43

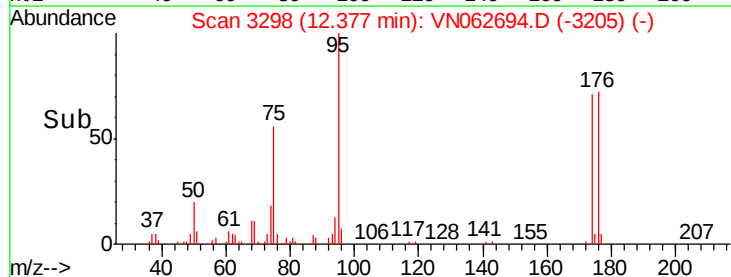
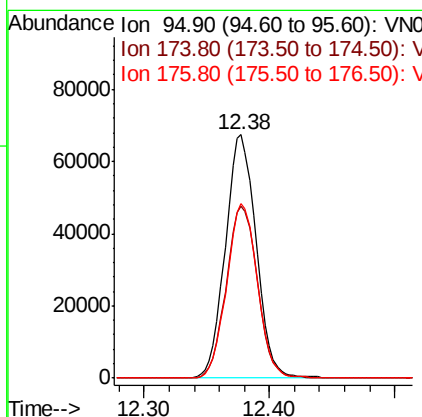
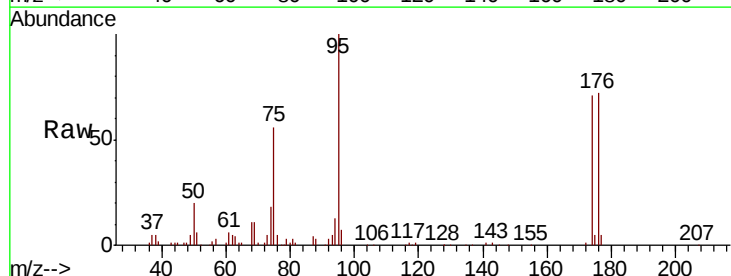
Instrument :
MSVOA_N
ClientSampled :
TP-2

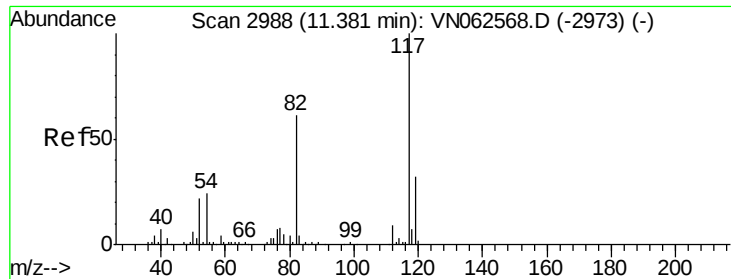
Tot Ion: 43 Resp: 47828
Ion Ratio Lower Upper
43 100
58 20.4 26.0 78.0#



#62
4-Bromofluorobenzene
Concen: 49.381 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062694.D
Acq: 31 Jul 2020 18:43

Tgt Ion: 95 Resp: 114908
Ion Ratio Lower Upper
95 100
174 71.6 0.0 144.6
176 71.3 0.0 139.4

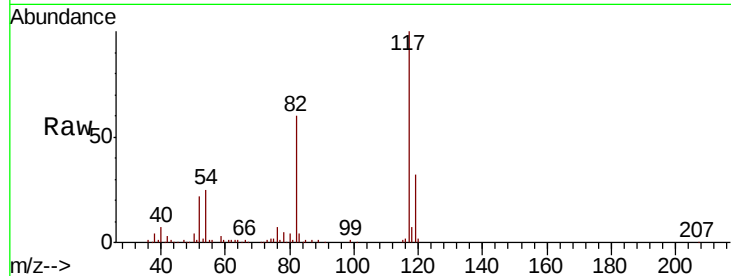




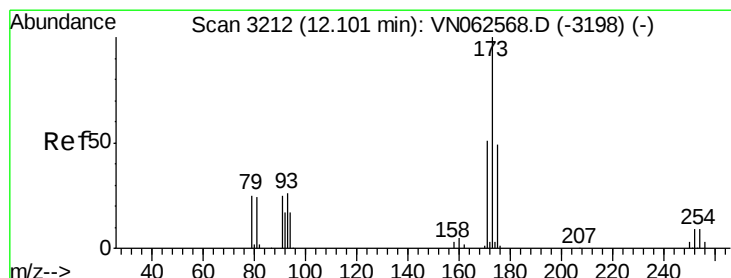
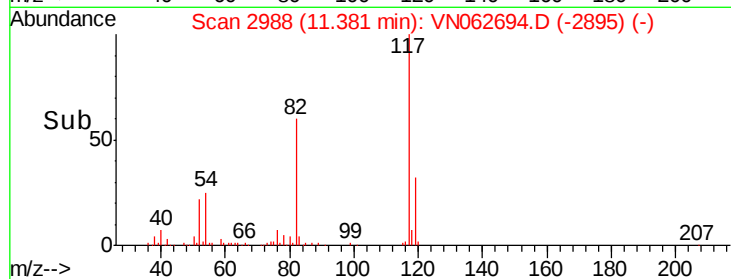
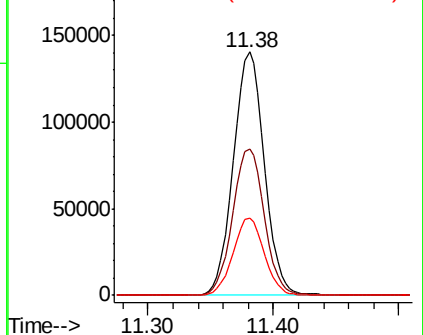
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062694.D
Acq: 31 Jul 2020 18:43

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Tot Ion:117 Resp: 241647
Ion Ratio Lower Upper
117 100
82 60.2 49.0 73.6
119 31.9 25.4 38.2

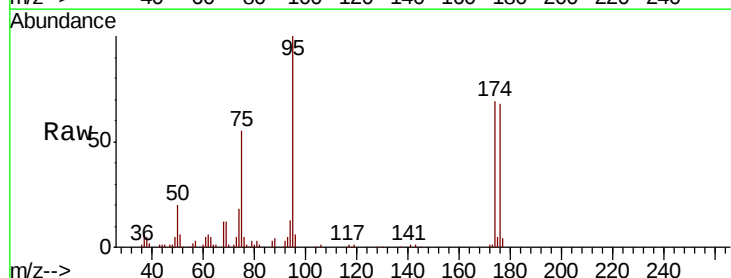


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

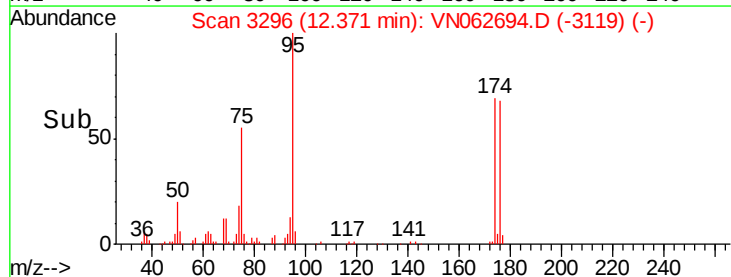
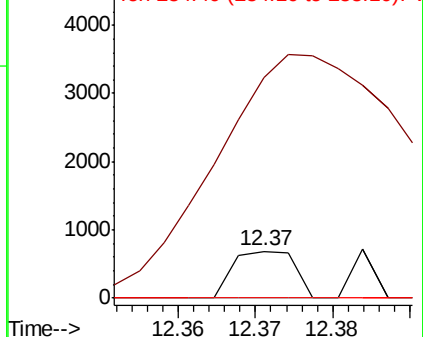


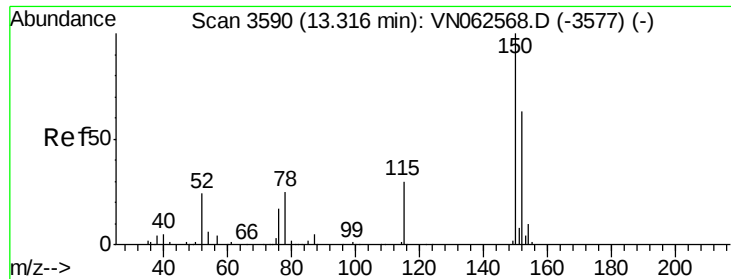
#71
Bromoform
Concen: 0.268 ug/l
RT: 12.37 min Scan# 3296
Delta R.T. 0.27 min
Lab File: VN062694.D
Acq: 31 Jul 2020 18:43

Tgt Ion:173 Resp: 384
Ion Ratio Lower Upper
173 100
175 1353.6 24.1 72.2#
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: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062694.D

Acq: 31 Jul 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

TP-2

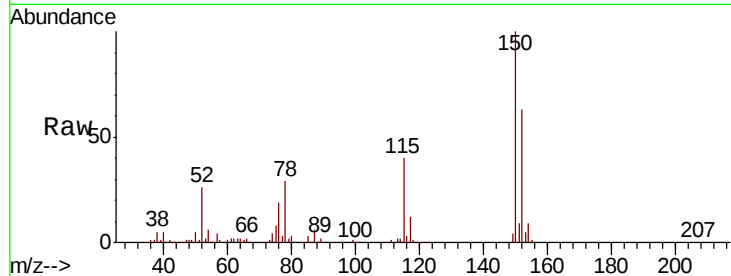
Tot Ion:152 Resp: 86321

Ion Ratio Lower Upper

152 100

115 63.9 31.8 95.4

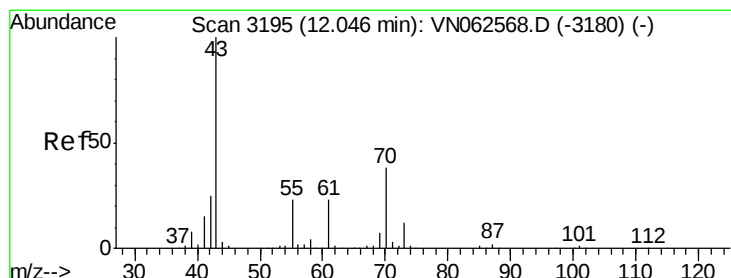
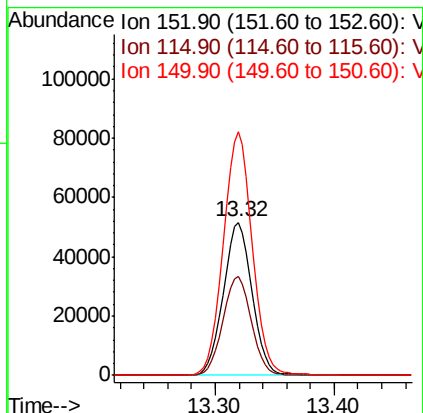
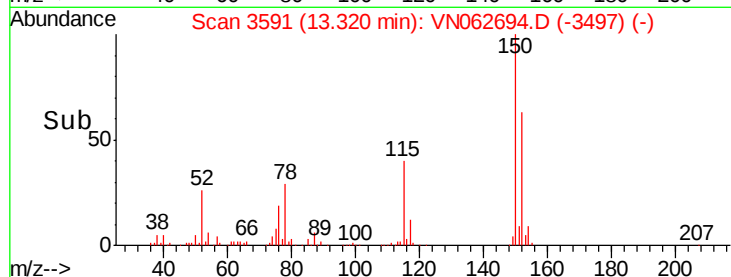
150 159.6 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.761 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062694.D

Acq: 31 Jul 2020 18:43

Tgt Ion: 43 Resp: 2320

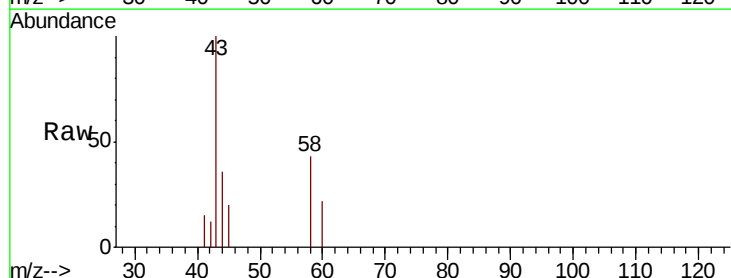
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 0.0 19.0 28.6#

61 0.0 18.4 27.6#

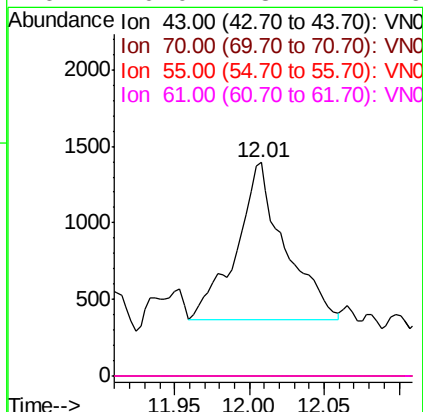
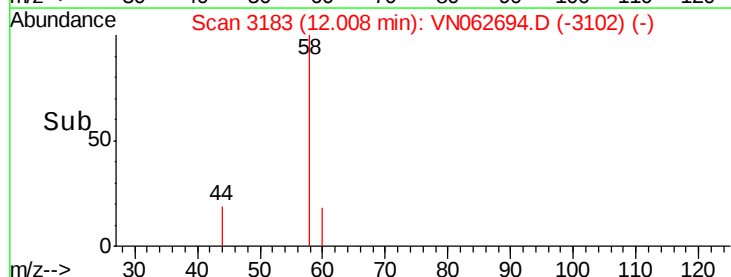


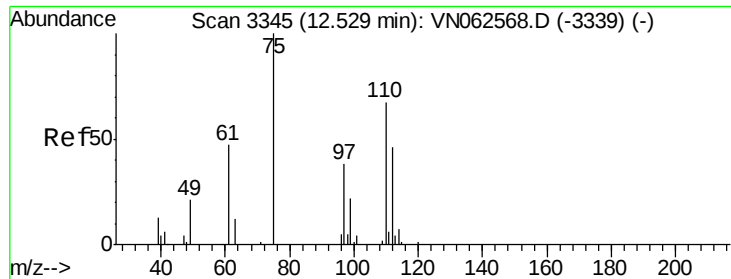
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

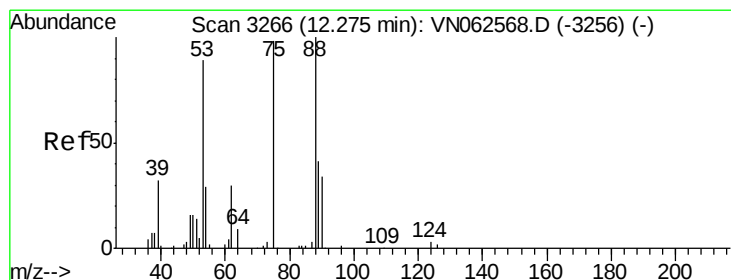
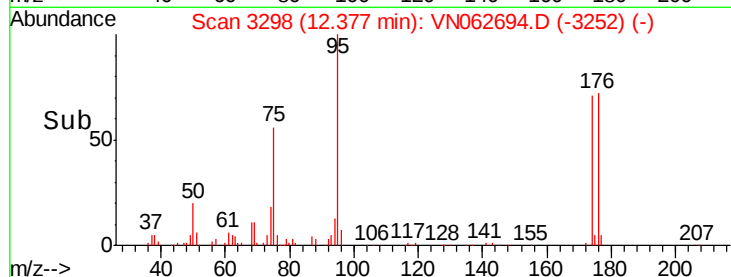
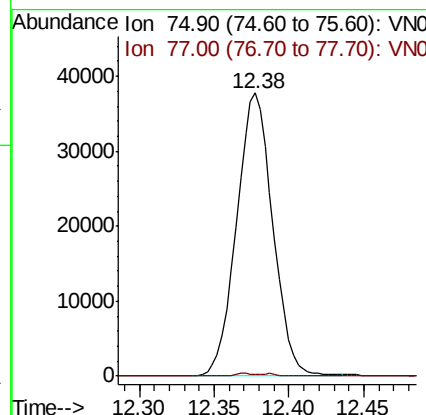
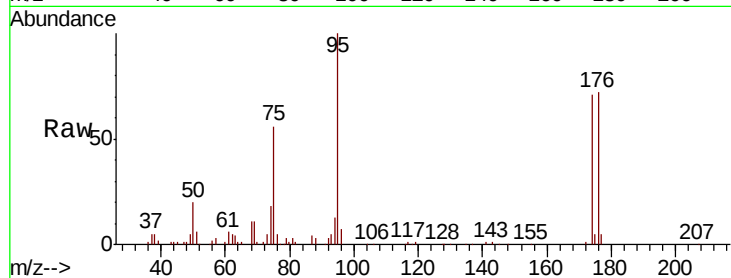




#76
 1,2,3-Trichloropropane
 Concen: 28.872 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062694.D
 Acq: 31 Jul 2020 18:43

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Tot Ion: 75 Resp: 63437
 Ion Ratio Lower Upper
 75 100
 77 0.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.373 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062694.D
 Acq: 31 Jul 2020 18:43

Tgt Ion: 75 Resp: 63437
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 34.5 51.7#

