

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072720\
 Data File : VN062614.D
 Acq On : 27 Jul 2020 21:29
 Operator : JC/MD
 Sample : L3432-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 31165-S

Quant Time: Jul 28 06:27:08 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	139149	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	250872	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	251562	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	107814	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	118764	54.94	ug/l	0.00
Spiked Amount			Recovery	=	109.88%	
35) Dibromofluoromethane	7.55	113	82269	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
50) Toluene-d8	10.06	98	325969	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
62) 4-Bromofluorobenzene	12.38	95	125812	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	

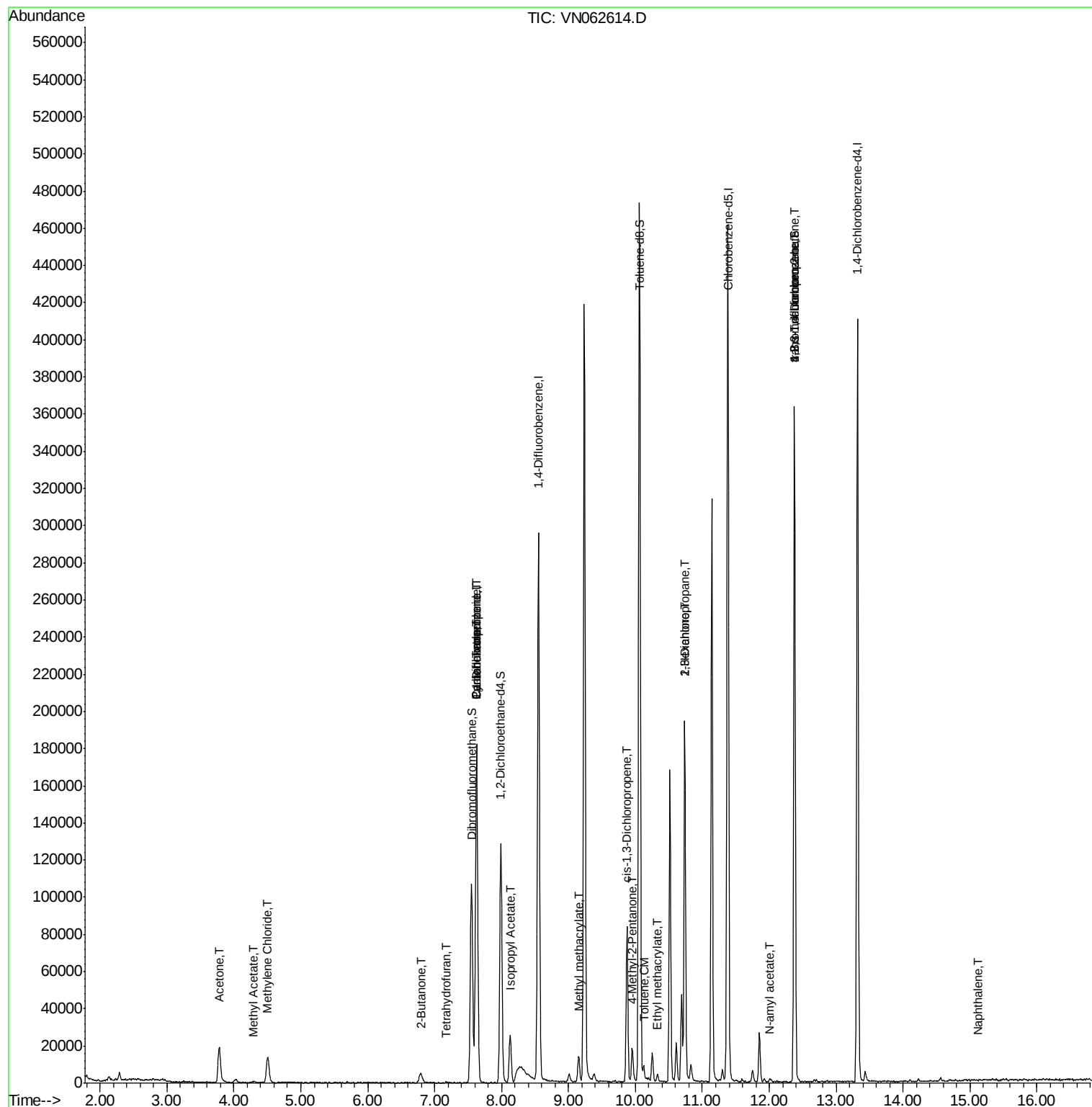
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	33479	41.158	ug/l	100
18) Methyl Acetate	4.29	43	851	0.413	ug/l #	56
20) Methylene Chloride	4.51	84	10408	5.335	ug/l	89
25) 2-Butanone	6.80	43	8380	6.764	ug/l	91
29) Tetrahydrofuran	7.18	42	454	0.542	ug/l #	43
31) Cyclohexane	7.63	56	3420	1.074	ug/l #	15
36) 1,1-Dichloropropene	7.63	75	11952	4.470	ug/l #	52
38) Carbon Tetrachloride	7.63	117	14659	5.703	ug/l #	17
43) Isopropyl Acetate	8.13	43	31196	6.714	ug/l #	90
48) Methyl methacrylate	9.14	41	2138	0.968	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	12220	4.395	ug/l	90
52) Toluene	10.12	92	3429	0.729	ug/l	89
54) cis-1,3-Dichloropropene	9.88	75	13995	4.116	ug/l #	66
56) Ethyl methacrylate	10.34	69	249	1.842	ug/l #	22
57) 1,3-Dichloropropane	10.74	76	2018	0.604	ug/l #	42
59) 2-Hexanone	10.74	43	28383	16.003	ug/l #	54
74) N-amyl acetate	12.01	43	1637	0.430	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	69807	25.438	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	69807	70.812	ug/l #	12
95) Naphthalene	15.11	128	95	3.780	ug/l #	69

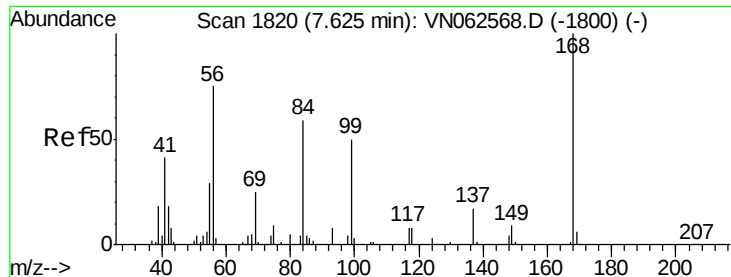
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 21 18:48:59 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062614.D

Acq: 27 Jul 2020 21:29

Instrument :

MSVOA_N

ClientSampleId :

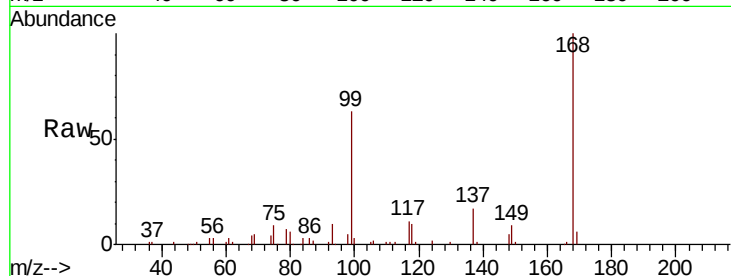
31165-S

Tot Ion:168 Resp: 139149

Ion Ratio Lower Upper

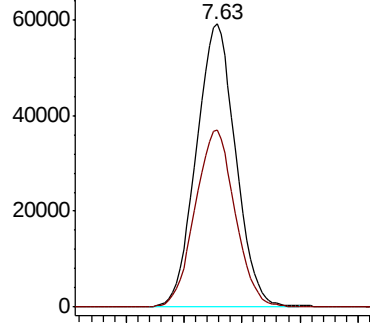
168 100

99 62.6 48.4 72.6

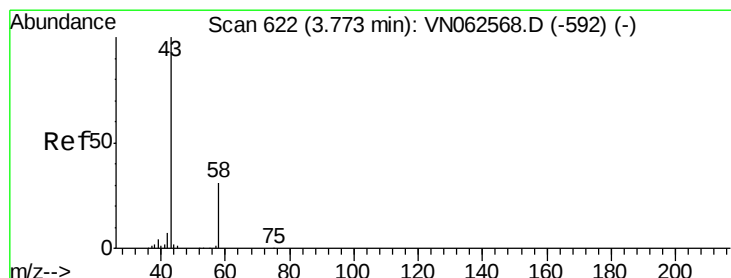
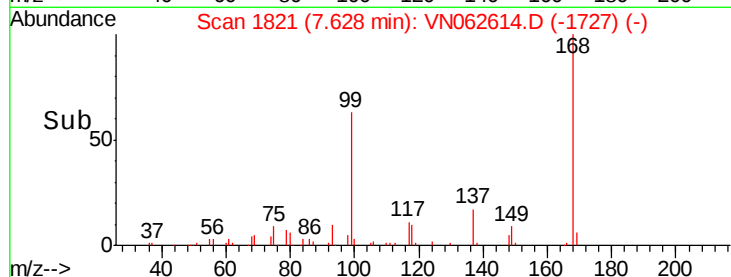


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



Time-->



#16

Acetone

Concen: 41.158 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062614.D

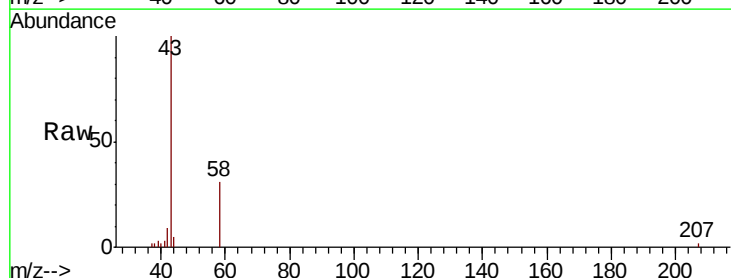
Acq: 27 Jul 2020 21:29

Tgt Ion: 43 Resp: 33479

Ion Ratio Lower Upper

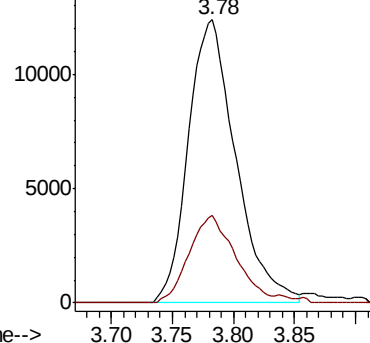
43 100

58 30.7 24.6 37.0

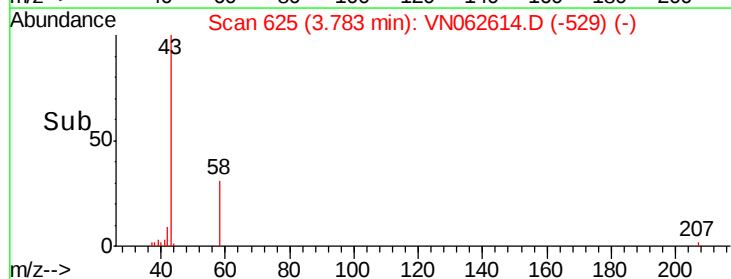


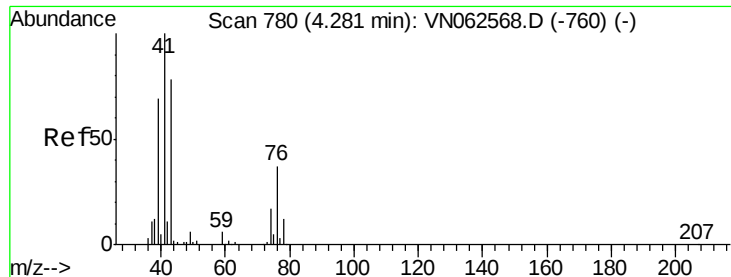
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->

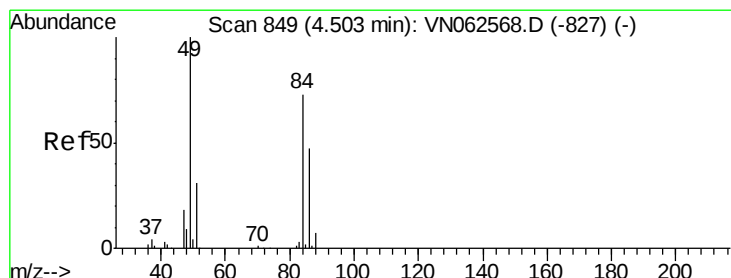
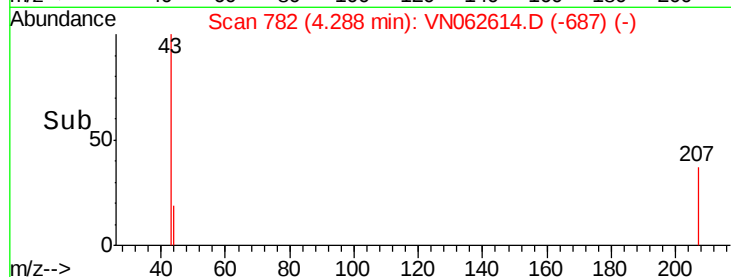
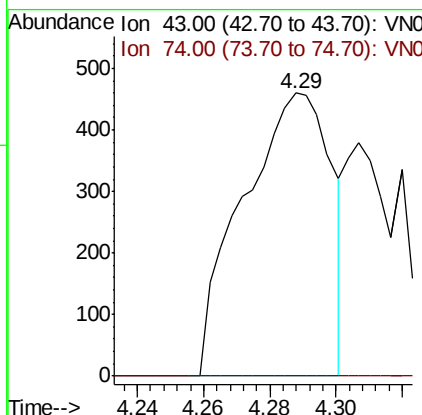
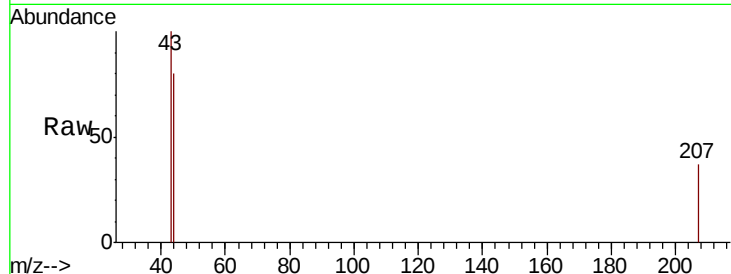




#18
Methyl Acetate
Concen: 0.413 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN062614.D
Acq: 27 Jul 2020 21:29

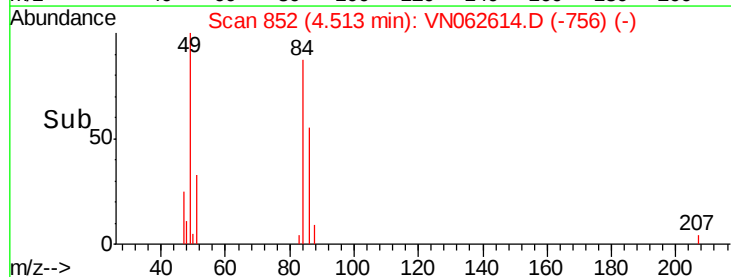
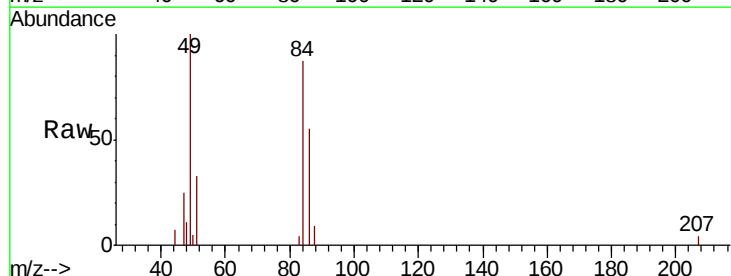
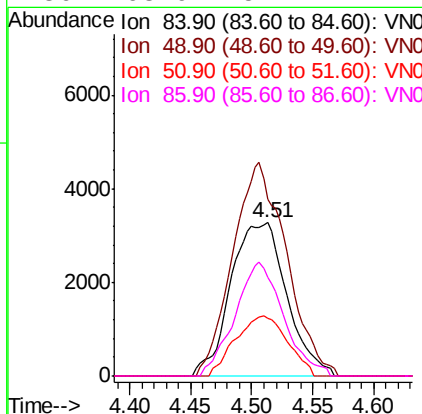
Instrument :
MSVOA_N
ClientSampled :
31165-S

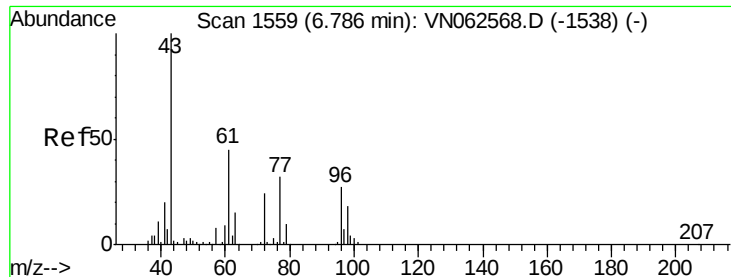
Tot Ion: 43 Resp: 851
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#



#20
Methylene Chloride
Concen: 5.335 ug/l
RT: 4.51 min Scan# 852
Delta R.T. 0.01 min
Lab File: VN062614.D
Acq: 27 Jul 2020 21:29

Tgt Ion: 84 Resp: 10408
Ion Ratio Lower Upper
84 100
49 115.1 109.4 164.0
51 38.0 33.6 50.4
86 63.9 51.4 77.2

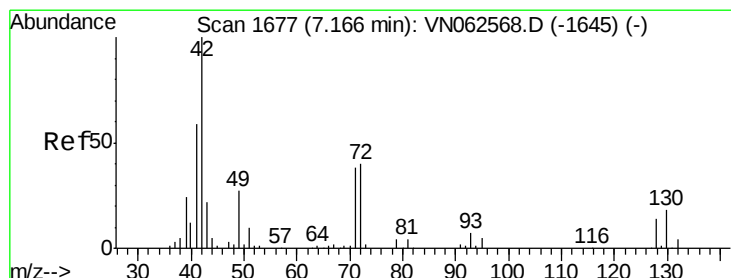
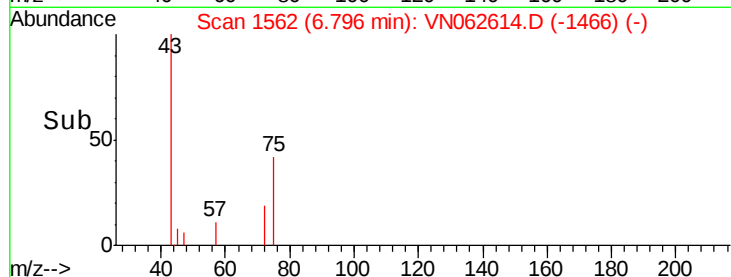
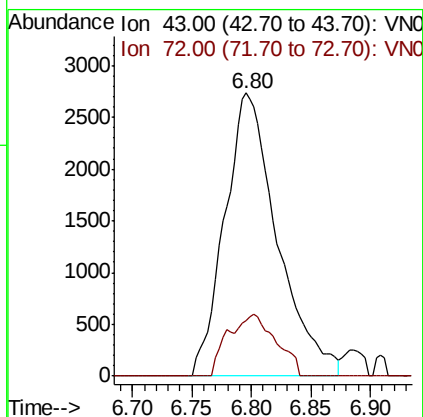
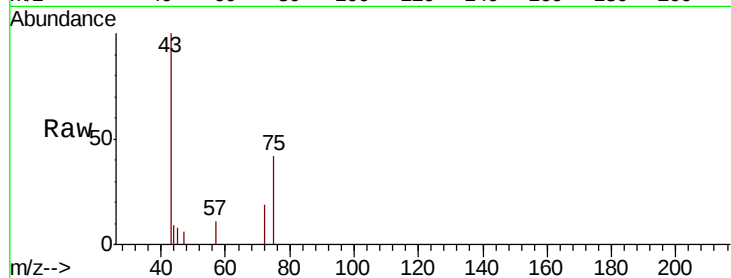




#25
2-Butanone
Concen: 6.764 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062614.D
Acq: 27 Jul 2020 21:29

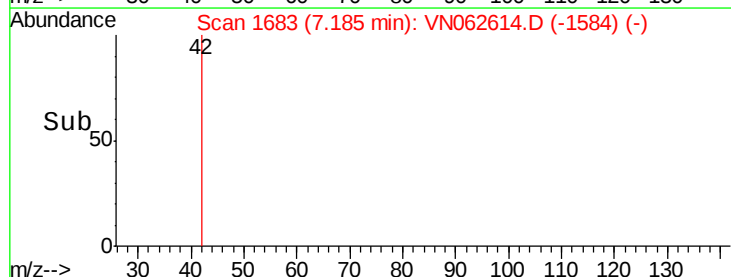
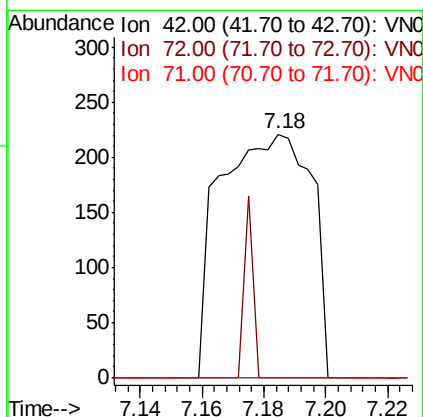
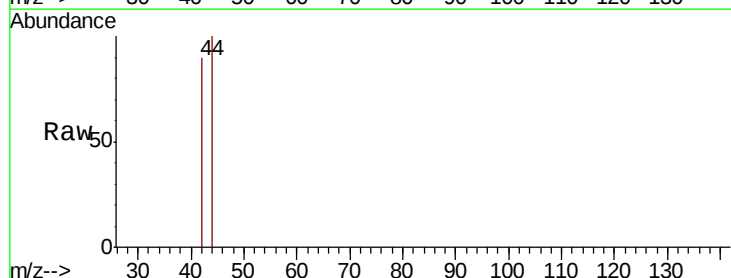
Instrument :
MSVOA_N
ClientSampled :
31165-S

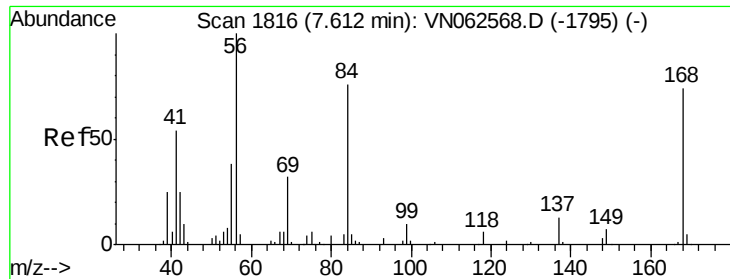
Tot Ion: 43 Resp: 8380
Ion Ratio Lower Upper
43 100
72 19.5 19.0 28.6



#29
Tetrahydrofuran
Concen: 0.542 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.02 min
Lab File: VN062614.D
Acq: 27 Jul 2020 21:29

Tgt Ion: 42 Resp: 454
Ion Ratio Lower Upper
42 100
72 7.0 30.7 46.1#
71 0.0 29.1 43.7#

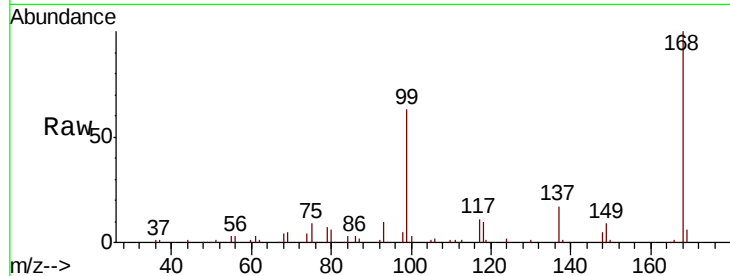




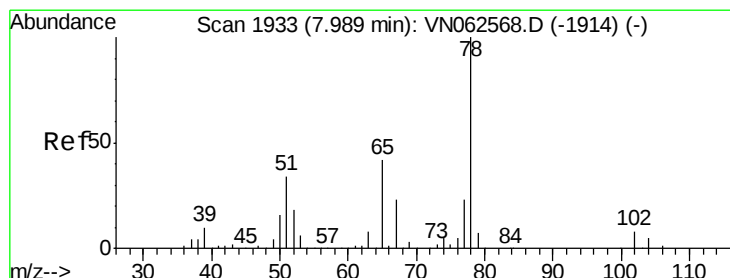
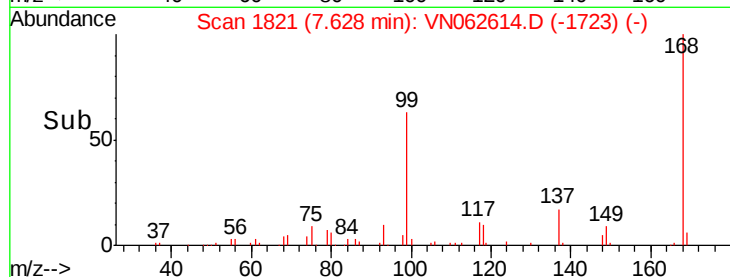
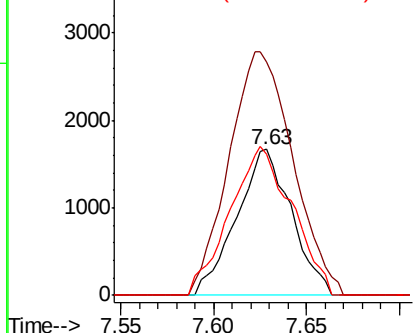
#31
Cyclohexane
Concen: 1.074 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN062614.D
Acq: 27 Jul 2020 21:29

Instrument :
MSVOA_N
ClientSampleId :
31165-S

Tot Ion: 56 Resp: 3420
Ion Ratio Lower Upper
56 100
69 160.2 25.3 37.9#
84 96.9 61.0 91.4#

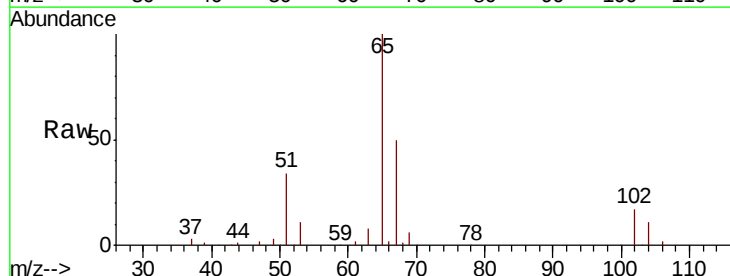


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

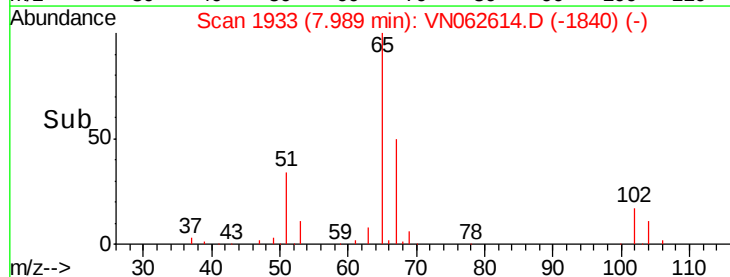
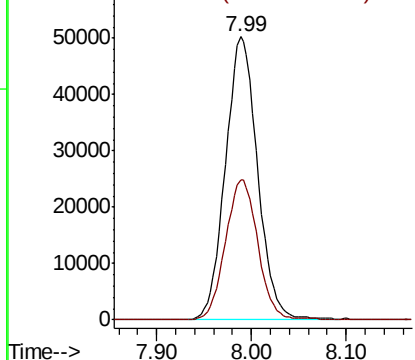


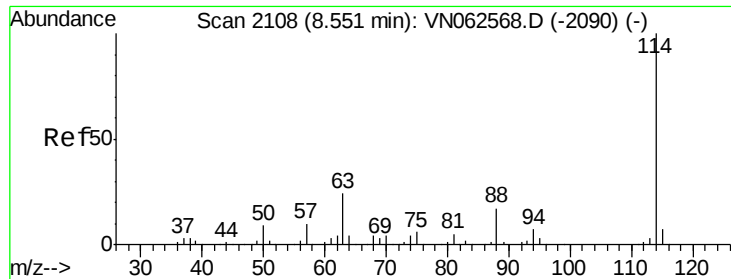
#33
1,2-Dichloroethane-d4
Concen: 54.942 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062614.D
Acq: 27 Jul 2020 21:29

Tgt Ion: 65 Resp: 118764
Ion Ratio Lower Upper
65 100
67 49.8 0.0 106.0



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

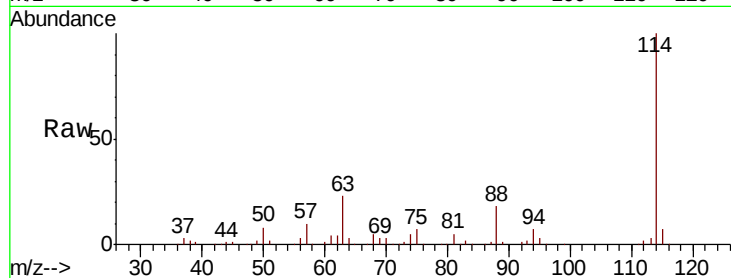




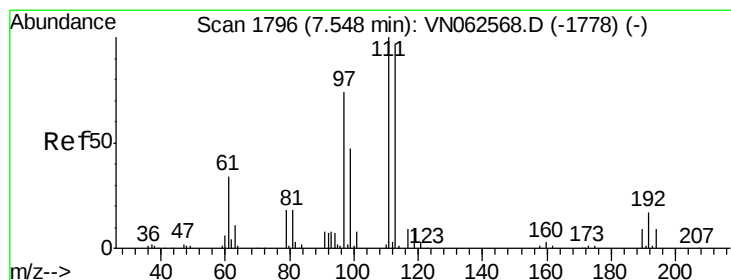
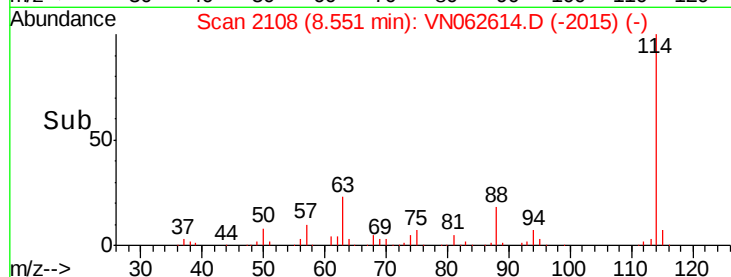
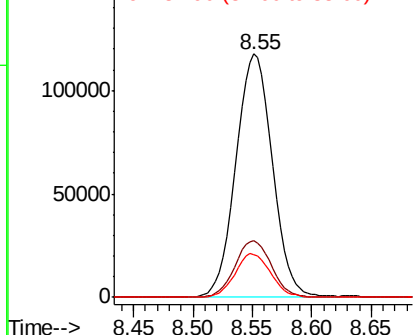
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN062614.D
Acq: 27 Jul 2020 21:29

Instrument :
MSVOA_N
ClientSampleId :
31165-S

Tot Ion:114 Resp: 250872
Ion Ratio Lower Upper
114 100
63 23.2 0.0 48.4
88 17.7 0.0 33.8

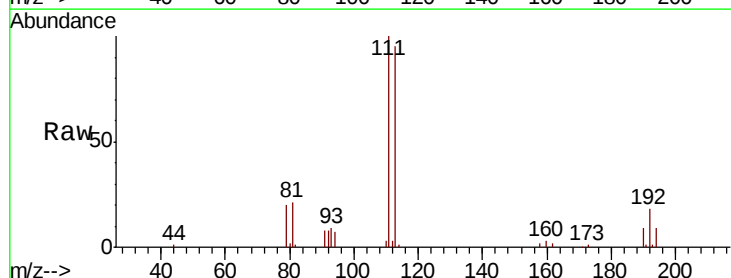


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

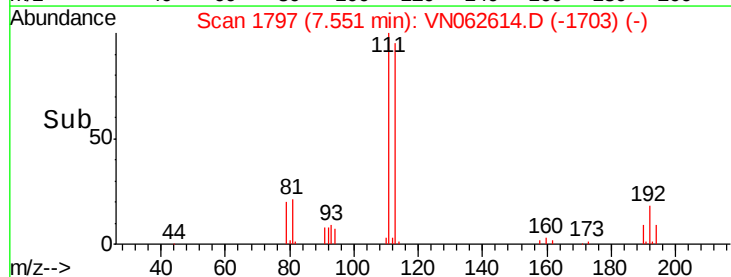
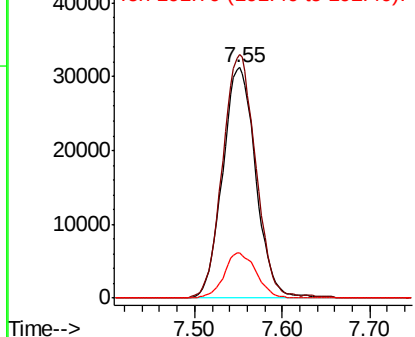


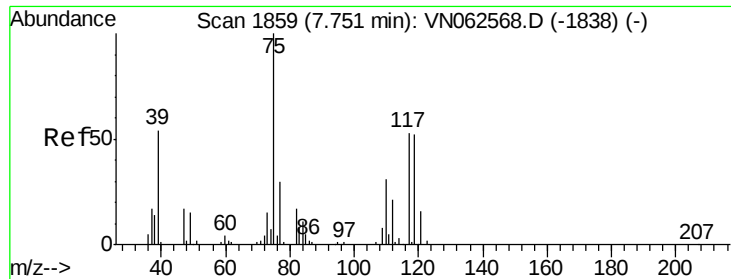
#35
Dibromofluoromethane
Concen: 49.924 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN062614.D
Acq: 27 Jul 2020 21:29

Tgt Ion:113 Resp: 82269
Ion Ratio Lower Upper
113 100
111 105.2 82.7 124.1
192 18.9 14.8 22.2



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

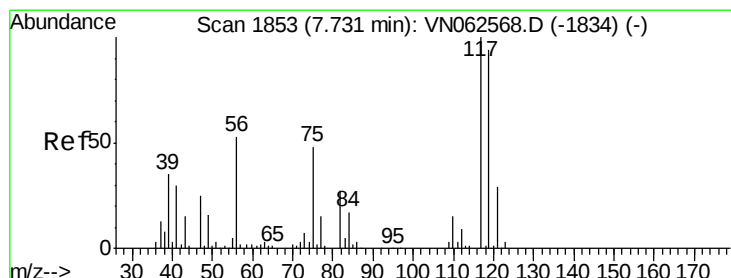
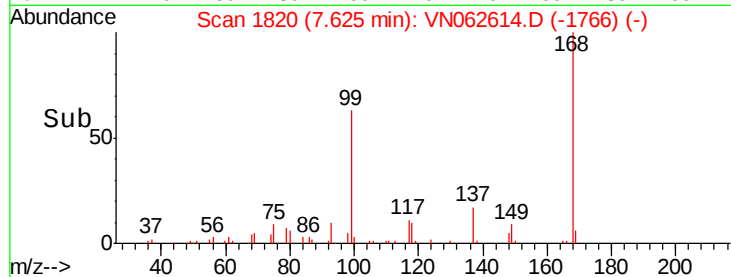
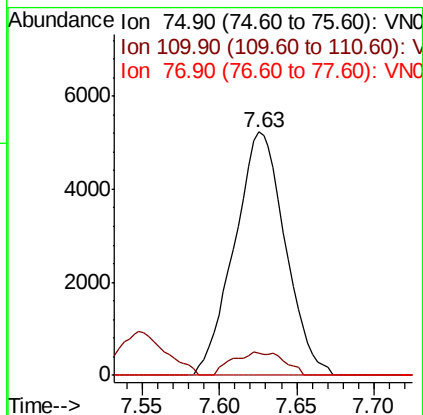
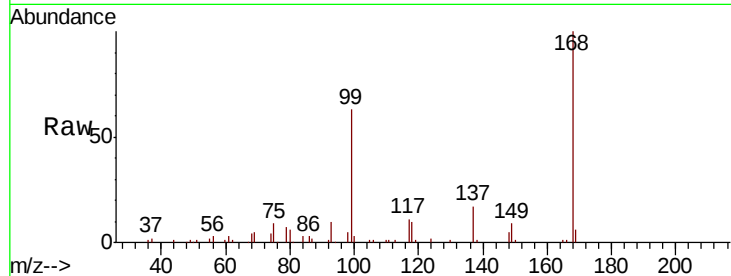




#36
 1,1-Dichloropropene
 Concen: 4.470 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062614.D
 Acq: 27 Jul 2020 21:29

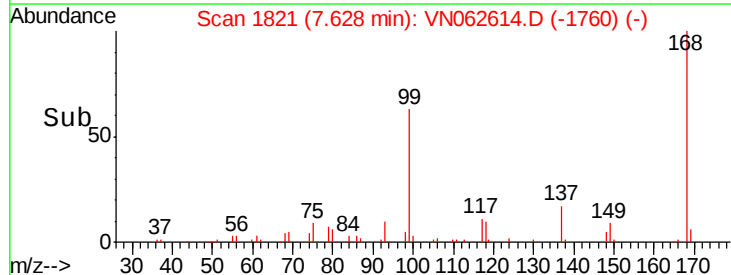
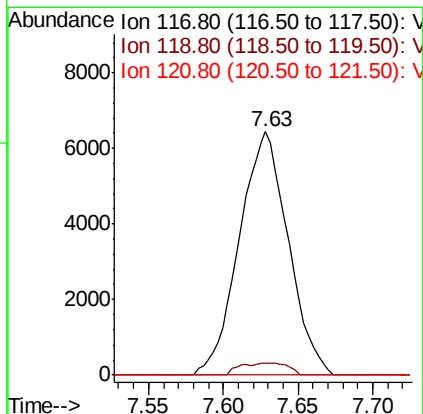
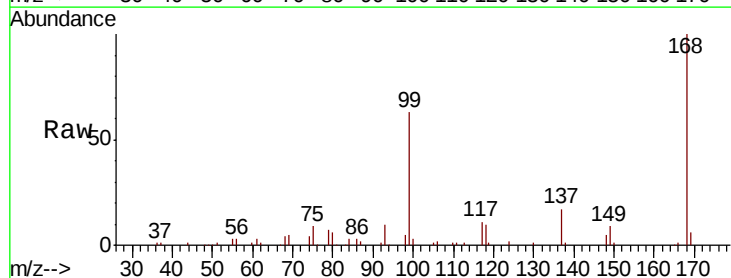
Instrument :
 MSVOA_N
 ClientSampled :
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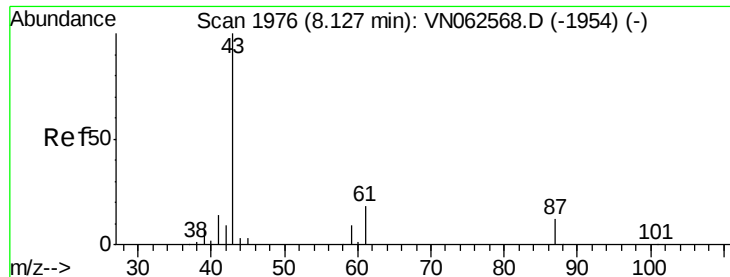
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	16.0	48.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.703 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.10 min
 Lab File: VN062614.D
 Acq: 27 Jul 2020 21:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	74.8	112.2#
121	0.0	23.0	34.6#





#43

Isopropyl Acetate

Concen: 6.714 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VN062614.D

Acq: 27 Jul 2020 21:29

Instrument :

MSVOA_N

ClientSampleId :

31165-S

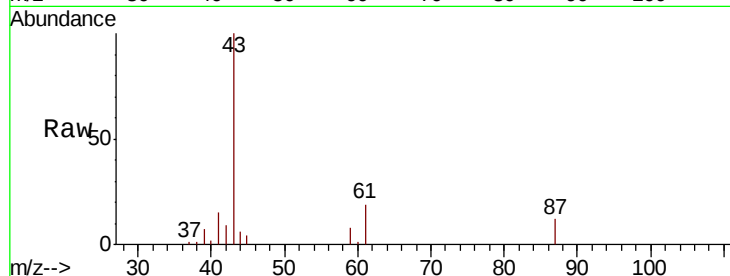
Tot Ion: 43 Resp: 31196

Ion Ratio Lower Upper

43 100

61 18.5 20.8 31.2#

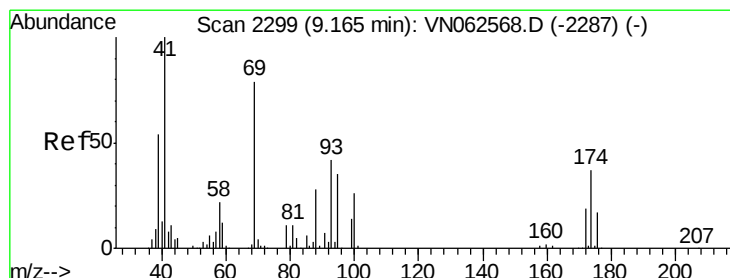
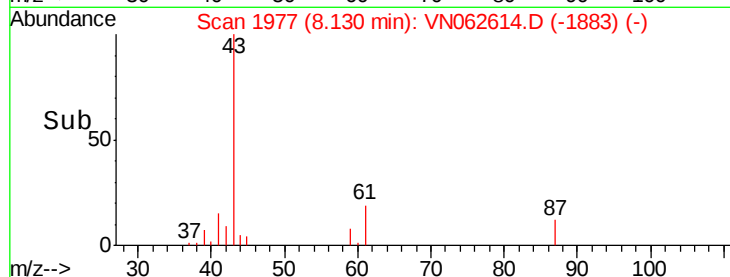
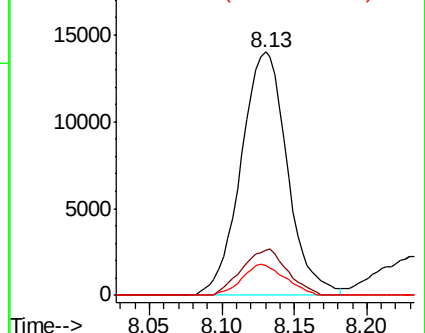
87 11.9 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): VN062614.D (-1954) (-)

Ion 61.00 (60.70 to 61.70): VN062614.D (-1954) (-)

Ion 87.00 (86.70 to 87.70): VN062614.D (-1954) (-)



#48

Methyl methacrylate

Concen: 0.968 ug/l

RT: 9.14 min Scan# 2292

Delta R.T. -0.02 min

Lab File: VN062614.D

Acq: 27 Jul 2020 21:29

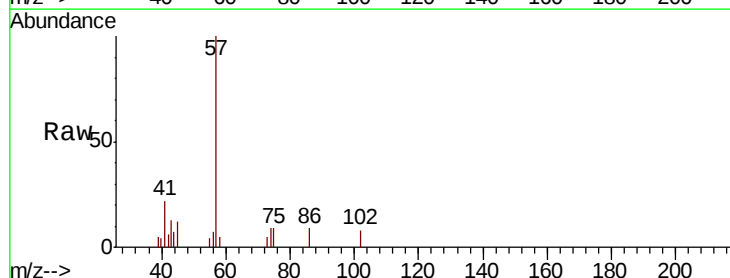
Tgt Ion: 41 Resp: 2138

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

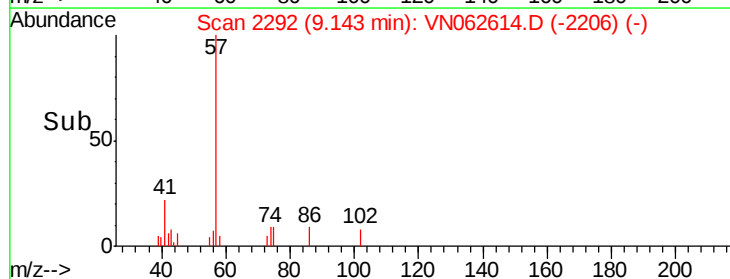
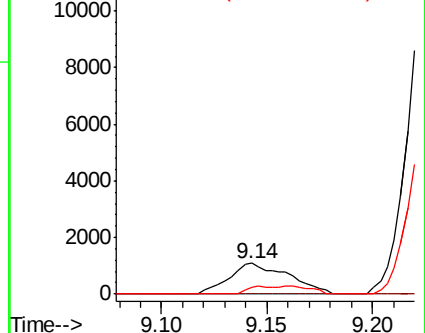
39 0.0 43.5 65.3#

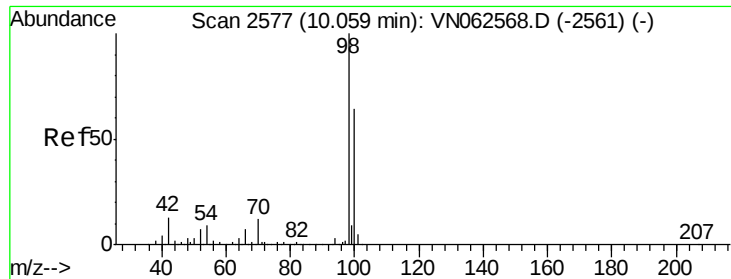


Abundance Ion 41.00 (40.70 to 41.70): VN062614.D (-2206) (-)

Ion 69.00 (68.70 to 69.70): VN062614.D (-2206) (-)

Ion 39.00 (38.70 to 39.70): VN062614.D (-2206) (-)





#50

Toluene-d8

Concen: 49.578 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062614.D

Acq: 27 Jul 2020 21:29

Instrument :

MSVOA_N

ClientSampleId :

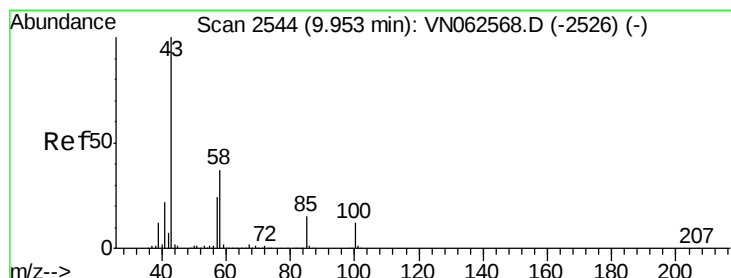
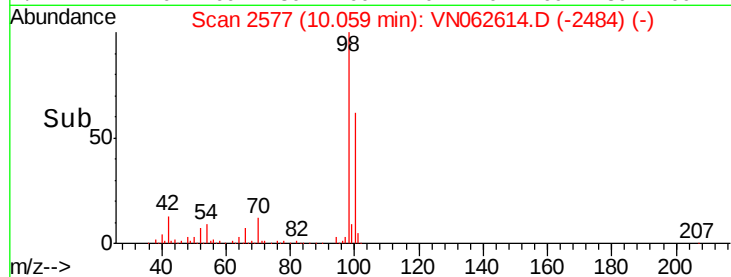
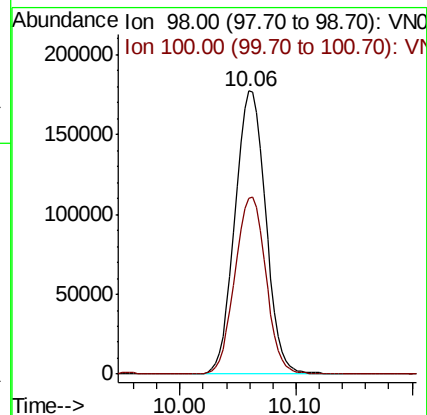
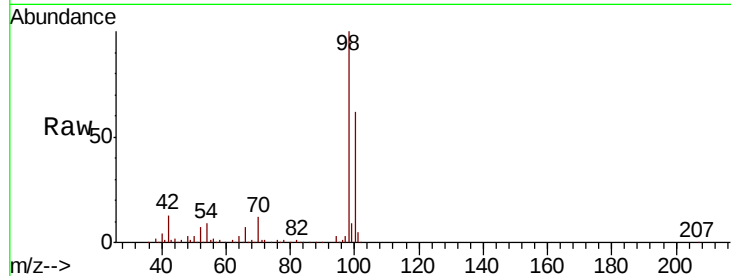
31165-S

Tot Ion: 98 Resp: 325969

Ion Ratio Lower Upper

98 100

100 63.1 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 4.395 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062614.D

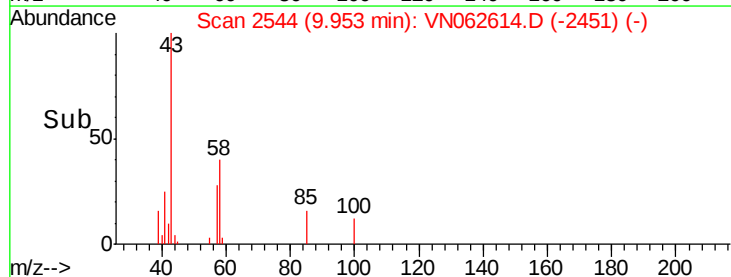
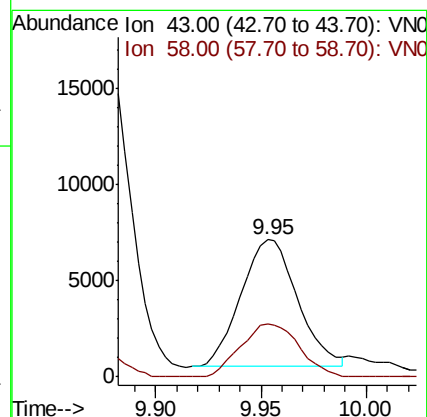
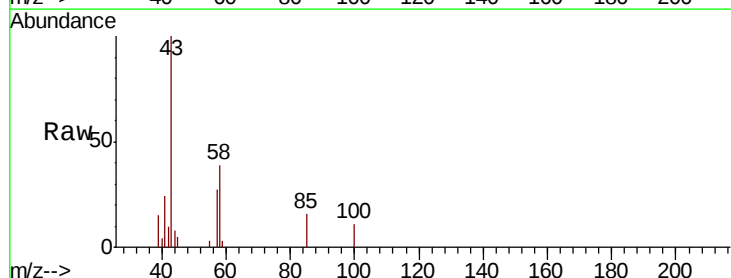
Acq: 27 Jul 2020 21:29

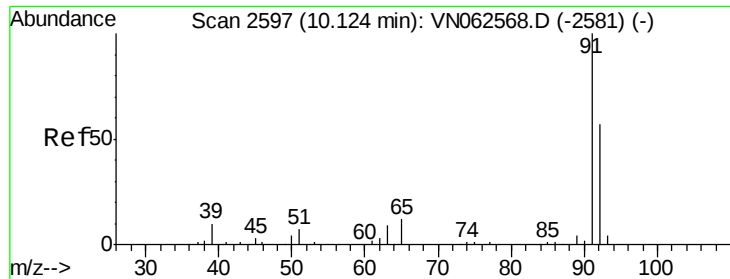
Tgt Ion: 43 Resp: 12220

Ion Ratio Lower Upper

43 100

58 43.2 29.8 44.6





#52

Toluene

Concen: 0.729 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VN062614.D

Acq: 27 Jul 2020 21:29

Instrument :

MSVOA_N

ClientSampleId :

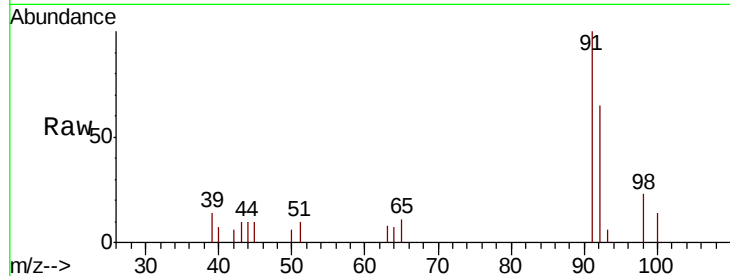
31165-S

Tot Ion: 92 Resp: 3429

Ion Ratio Lower Upper

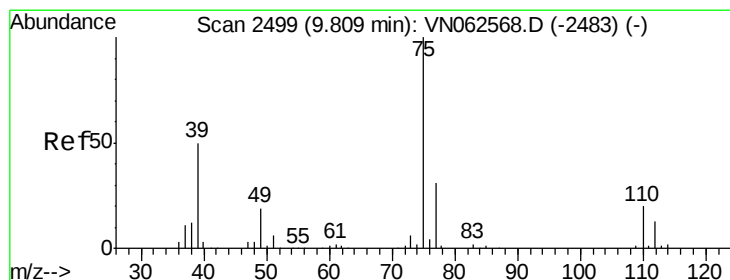
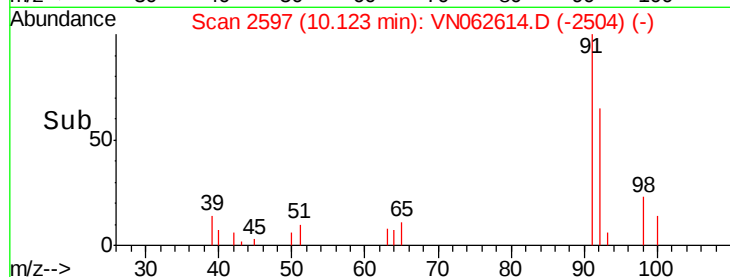
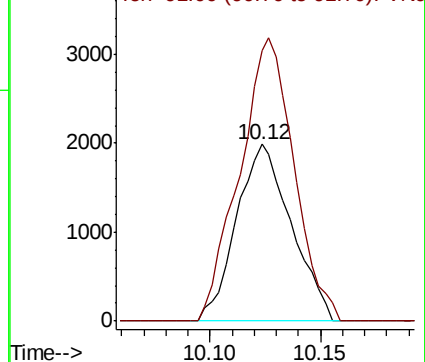
92 100

91 159.1 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 4.116 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062614.D

Acq: 27 Jul 2020 21:29

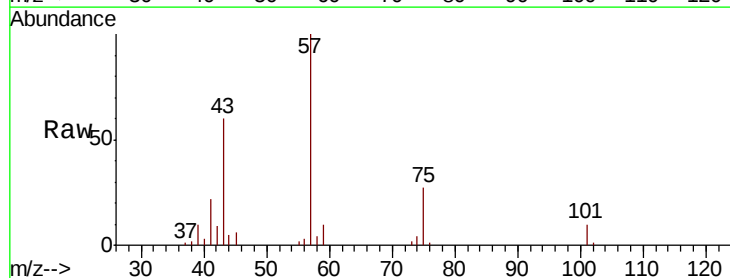
Tgt Ion: 75 Resp: 13995

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

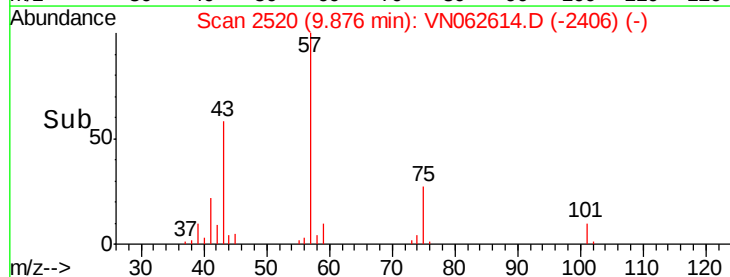
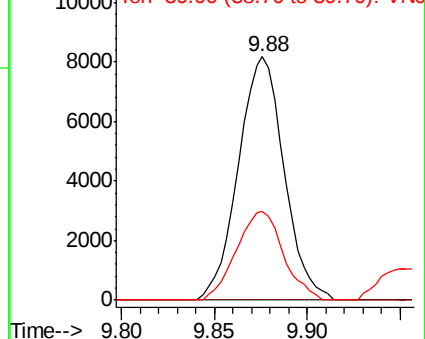
39 36.7 39.8 59.8#

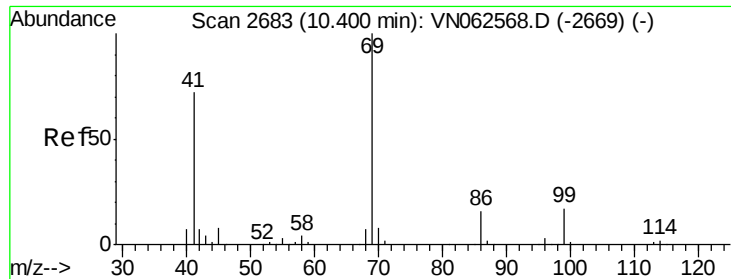


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 1.842 ug/l

RT: 10.34 min Scan# 2664

Delta R.T. -0.06 min

Lab File: VN062614.D

Acq: 27 Jul 2020 21:29

Instrument :

MSVOA_N

ClientSampleId :

31165-S

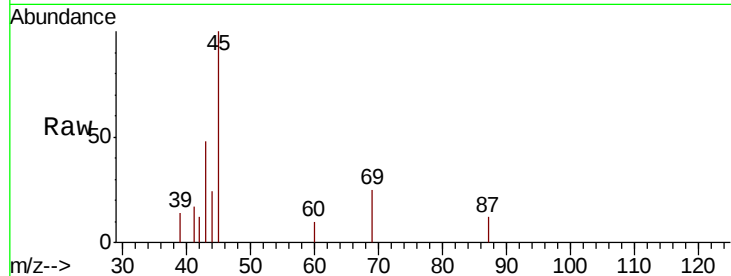
Tot Ion: 69 Resp: 249

Ion Ratio Lower Upper

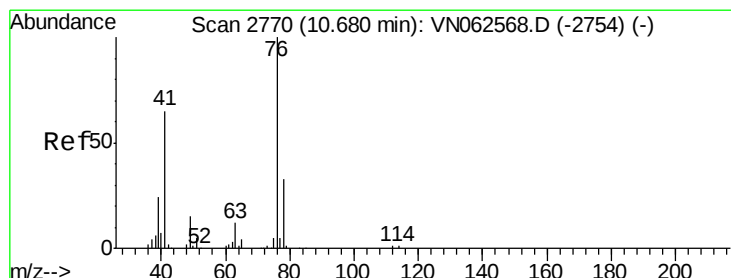
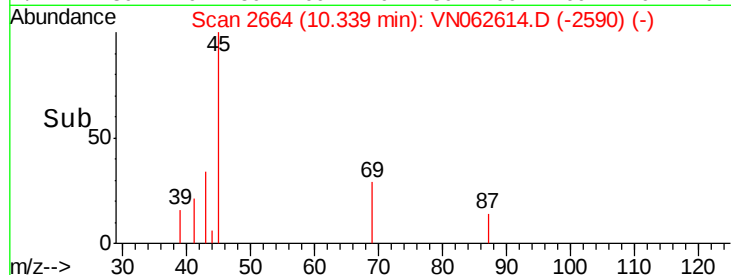
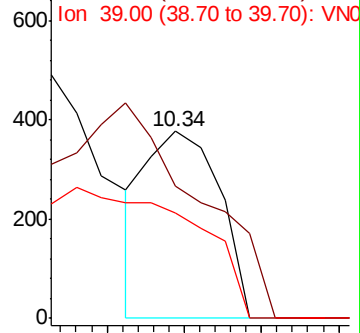
69 100

41 0.0 57.2 85.8#

39 0.0 28.6 43.0#



Abundance Ion 69.00 (68.70 to 69.70): VN062614.D (-2590) (-)



#57

1,3-Dichloropropane

Concen: 0.604 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062614.D

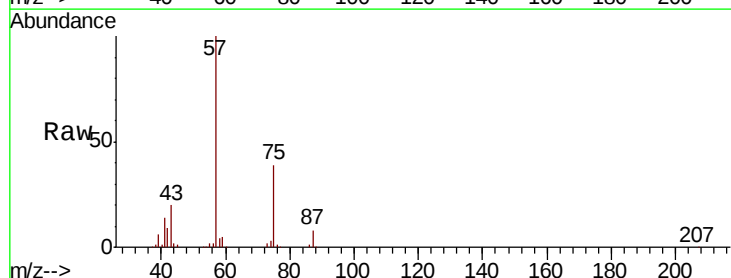
Acq: 27 Jul 2020 21:29

Tgt Ion: 76 Resp: 2018

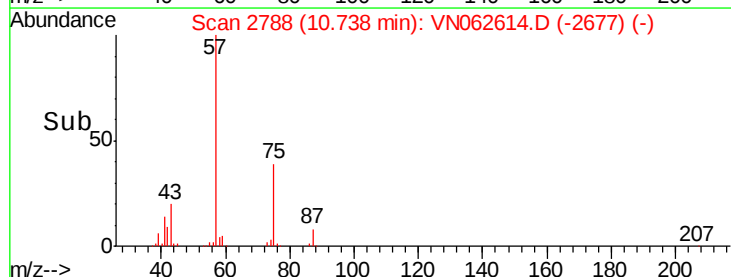
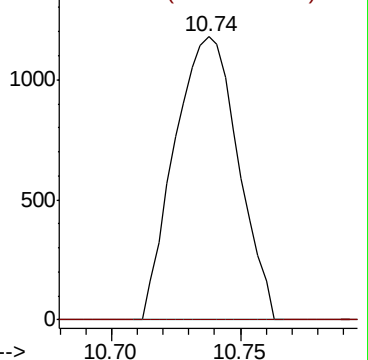
Ion Ratio Lower Upper

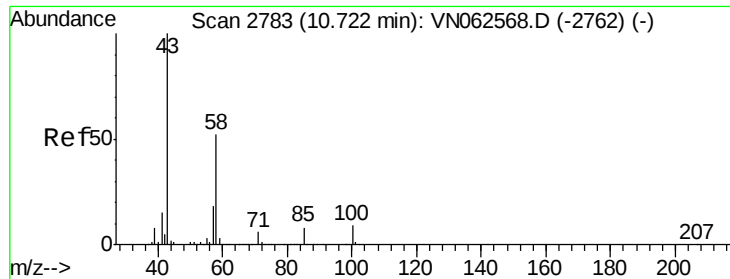
76 100

78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN062614.D (-2677) (-)





#59

2-Hexanone

Concen: 16.003 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062614.D

Acq: 27 Jul 2020 21:29

Instrument :

MSVOA_N

ClientSampled :

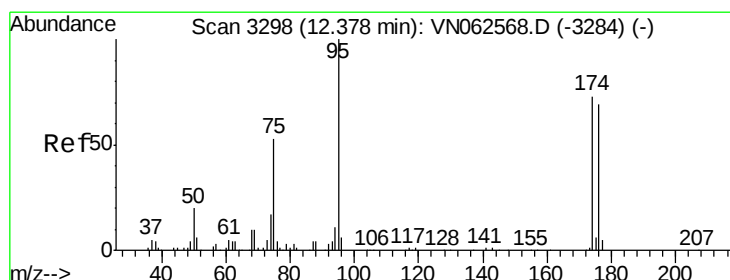
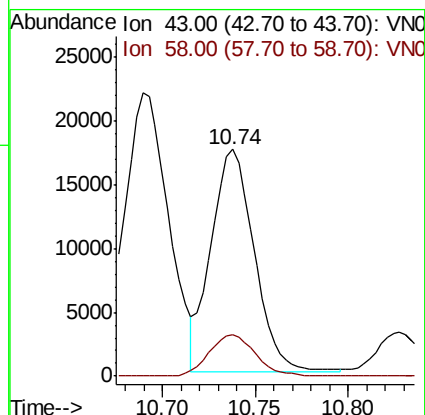
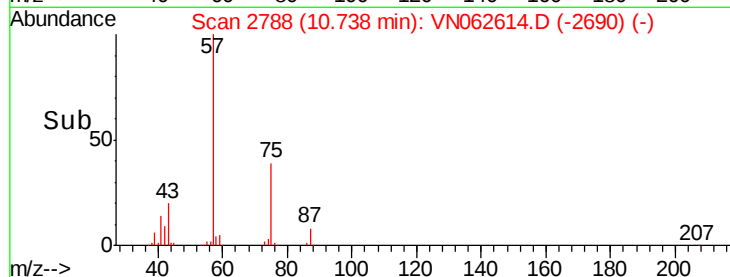
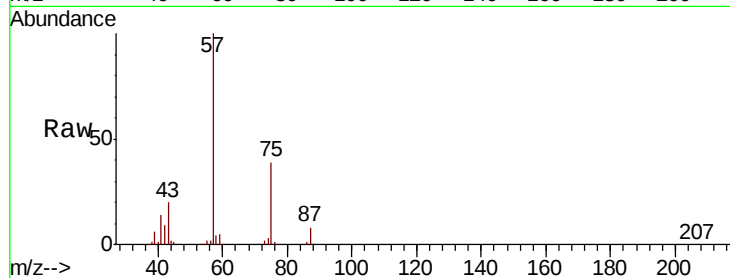
31165-S

Tot Ion: 43 Resp: 28383

Ion Ratio Lower Upper

43 100

58 19.8 26.0 78.0#



#62

4-Bromofluorobenzene

Concen: 52.333 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062614.D

Acq: 27 Jul 2020 21:29

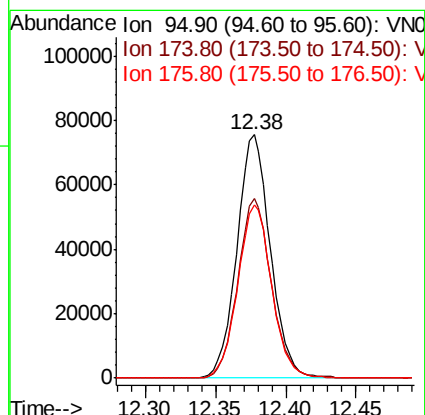
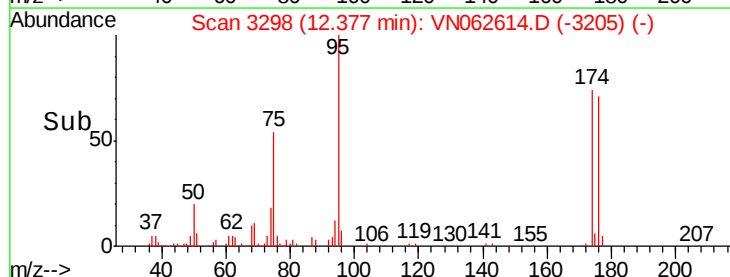
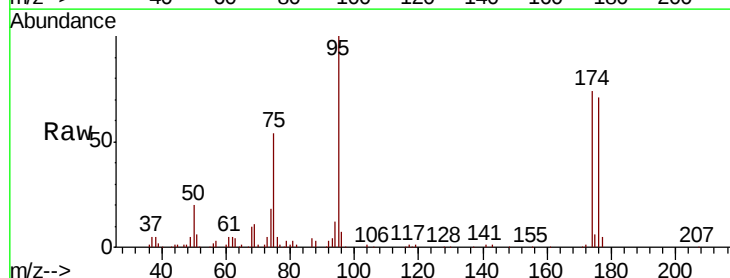
Tgt Ion: 95 Resp: 125812

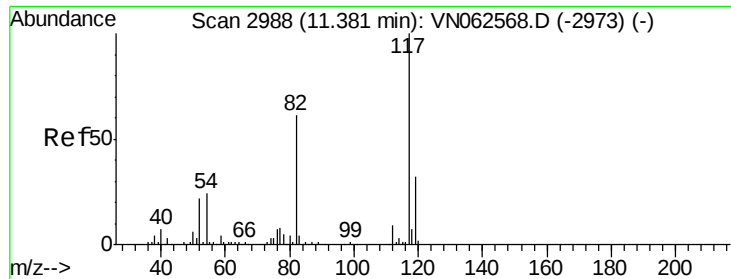
Ion Ratio Lower Upper

95 100

174 74.1 0.0 144.6

176 71.9 0.0 139.4

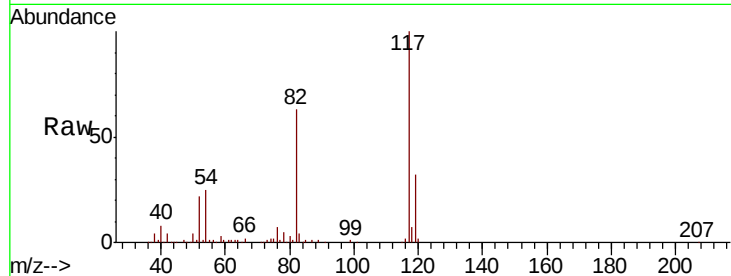




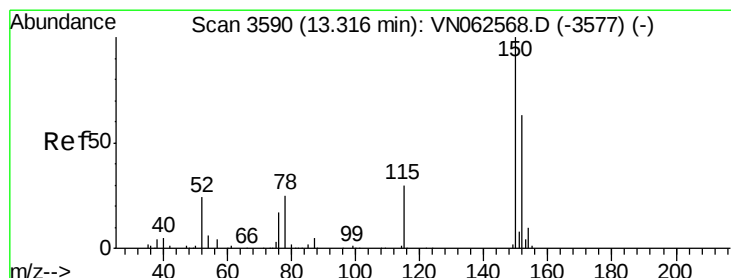
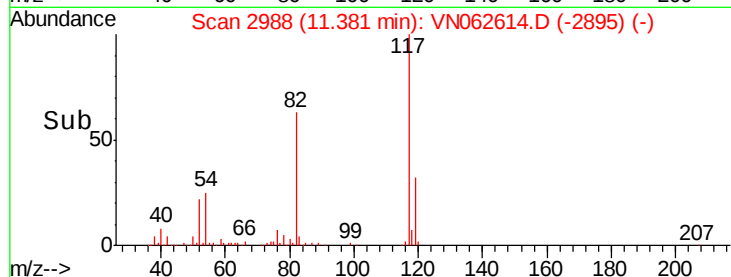
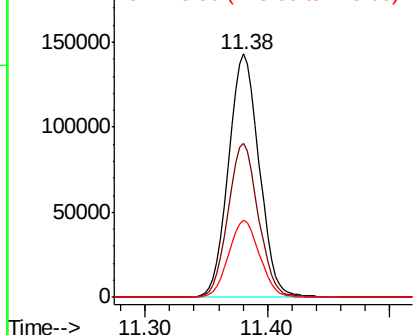
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062614.D
Acq: 27 Jul 2020 21:29

Instrument :
MSVOA_N
ClientSampleId :
31165-S

Tot Ion:117 Resp: 251562
Ion Ratio Lower Upper
117 100
82 63.4 49.0 73.6
119 31.6 25.4 38.2

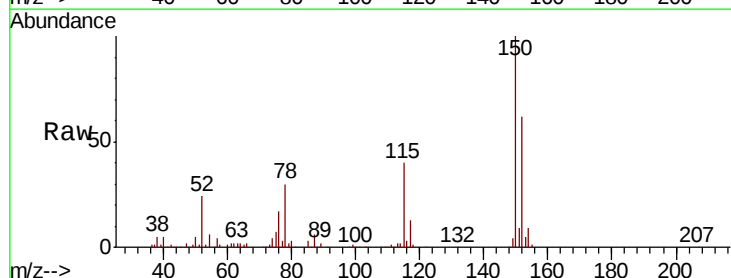


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

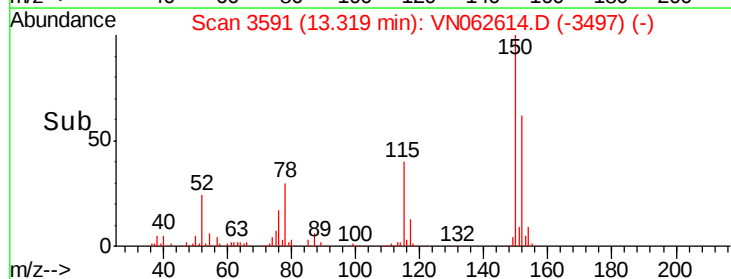
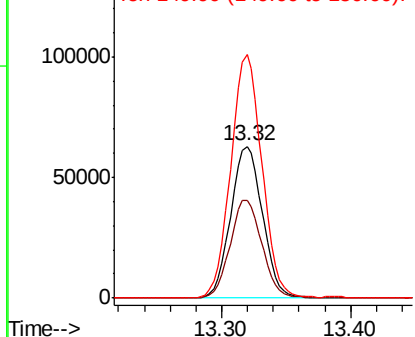


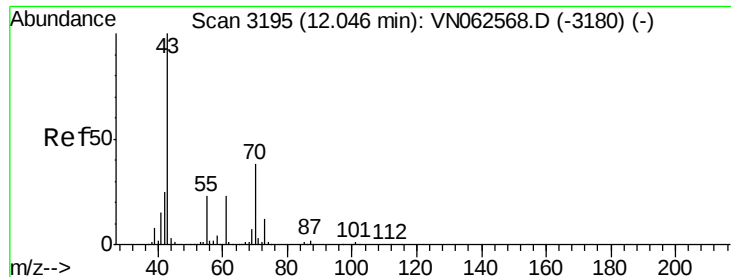
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062614.D
Acq: 27 Jul 2020 21:29

Tgt Ion:152 Resp: 107814
Ion Ratio Lower Upper
152 100
115 64.6 31.8 95.4
150 157.0 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.430 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062614.D

Acq: 27 Jul 2020 21:29

Instrument :

MSVOA_N

ClientSampled :

31165-S

Tot Ion: 43 Resp: 1637

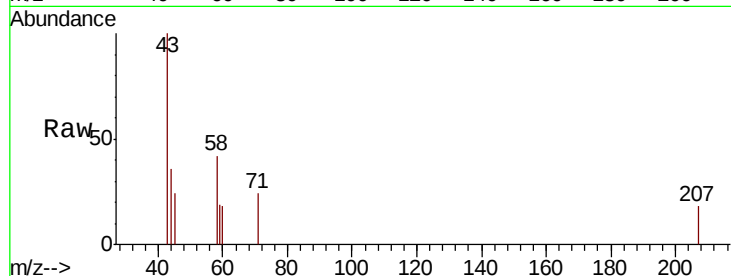
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 0.0 19.0 28.6#

61 0.0 18.4 27.6#

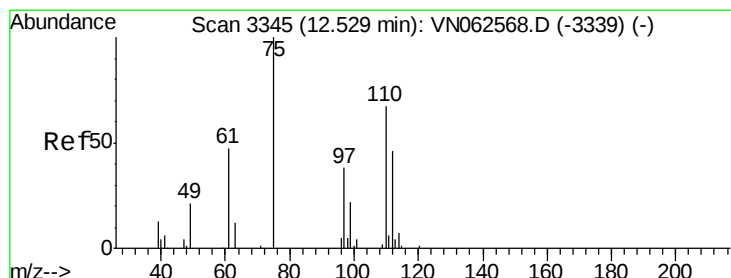
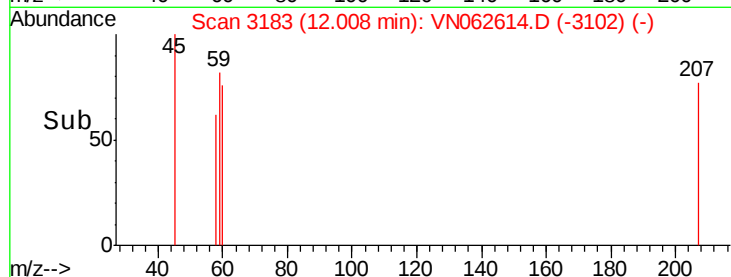
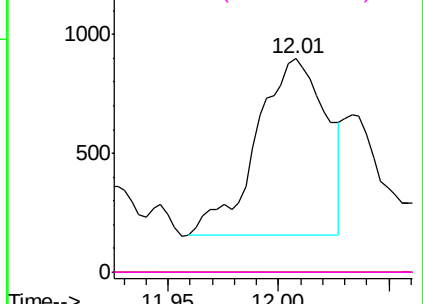


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.438 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062614.D

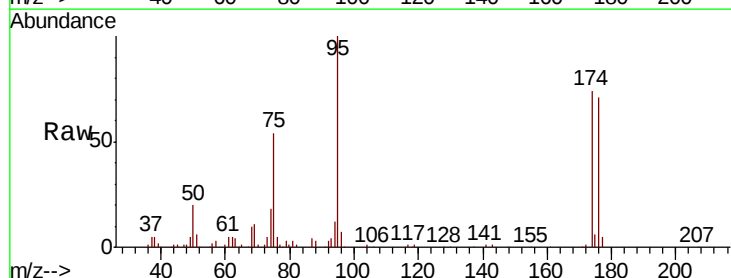
Acq: 27 Jul 2020 21:29

Tgt Ion: 75 Resp: 69807

Ion Ratio Lower Upper

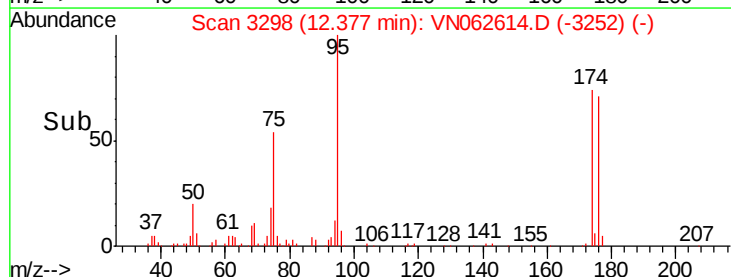
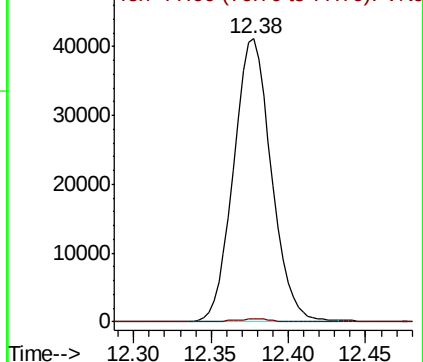
75 100

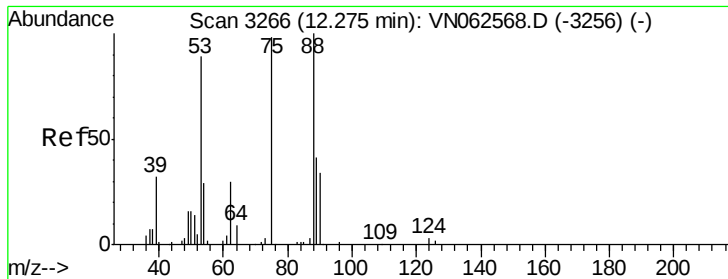
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 70.812 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062614.D

Acq: 27 Jul 2020 21:29

Instrument :

MSVOA_N

ClientSampled :

31165-S

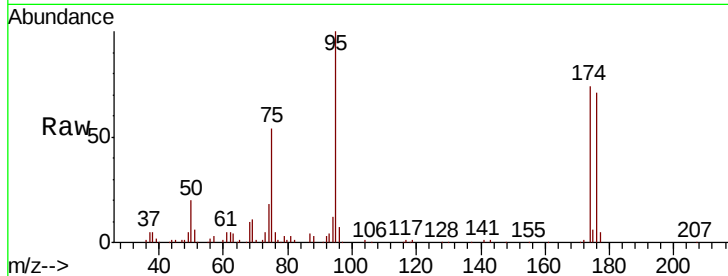
Tot Ion: 75 Resp: 69807

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

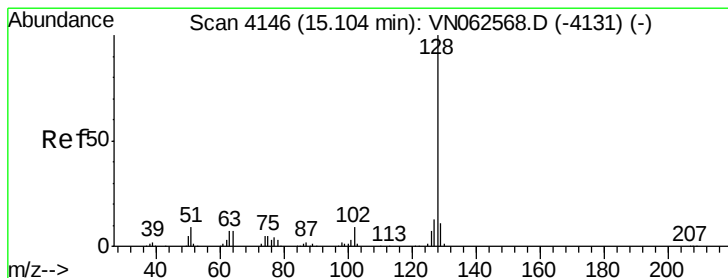
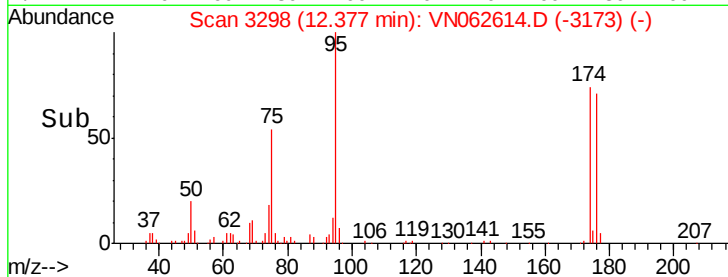
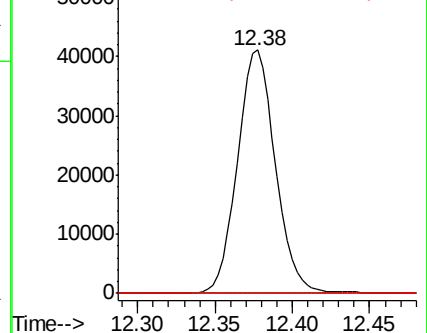
89 0.0 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VN062614.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN062614.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN062614.D (-3173) (-)



#95

Naphthalene

Concen: 3.780 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062614.D

Acq: 27 Jul 2020 21:29

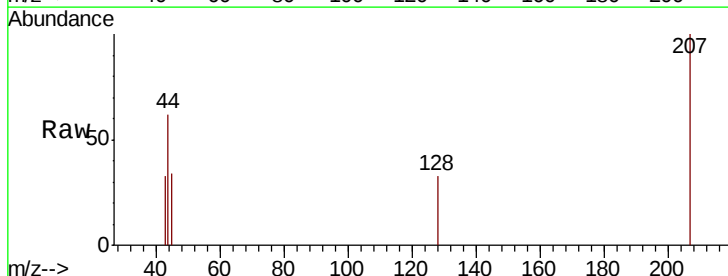
Tgt Ion: 128 Resp: 95

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN062614.D (-4053) (-)

Ion 127.00 (126.70 to 127.70): VN062614.D (-4053) (-)

Ion 129.00 (128.70 to 129.70): VN062614.D (-4053) (-)

