

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072220\
 Data File : VN062591.D
 Acq On : 22 Jul 2020 13:33
 Operator : JC/MD
 Sample : L3371-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 KY038PS027-200720

Quant Time: Jul 23 07:16:08 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	168526	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	297910	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	285167	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	97296	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	133204	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
35) Dibromofluoromethane	7.55	113	97975	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
50) Toluene-d8	10.06	98	380507	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
62) 4-Bromofluorobenzene	12.38	95	130076	45.56	ug/l	0.00
Spiked Amount			Recovery	=	91.12%	

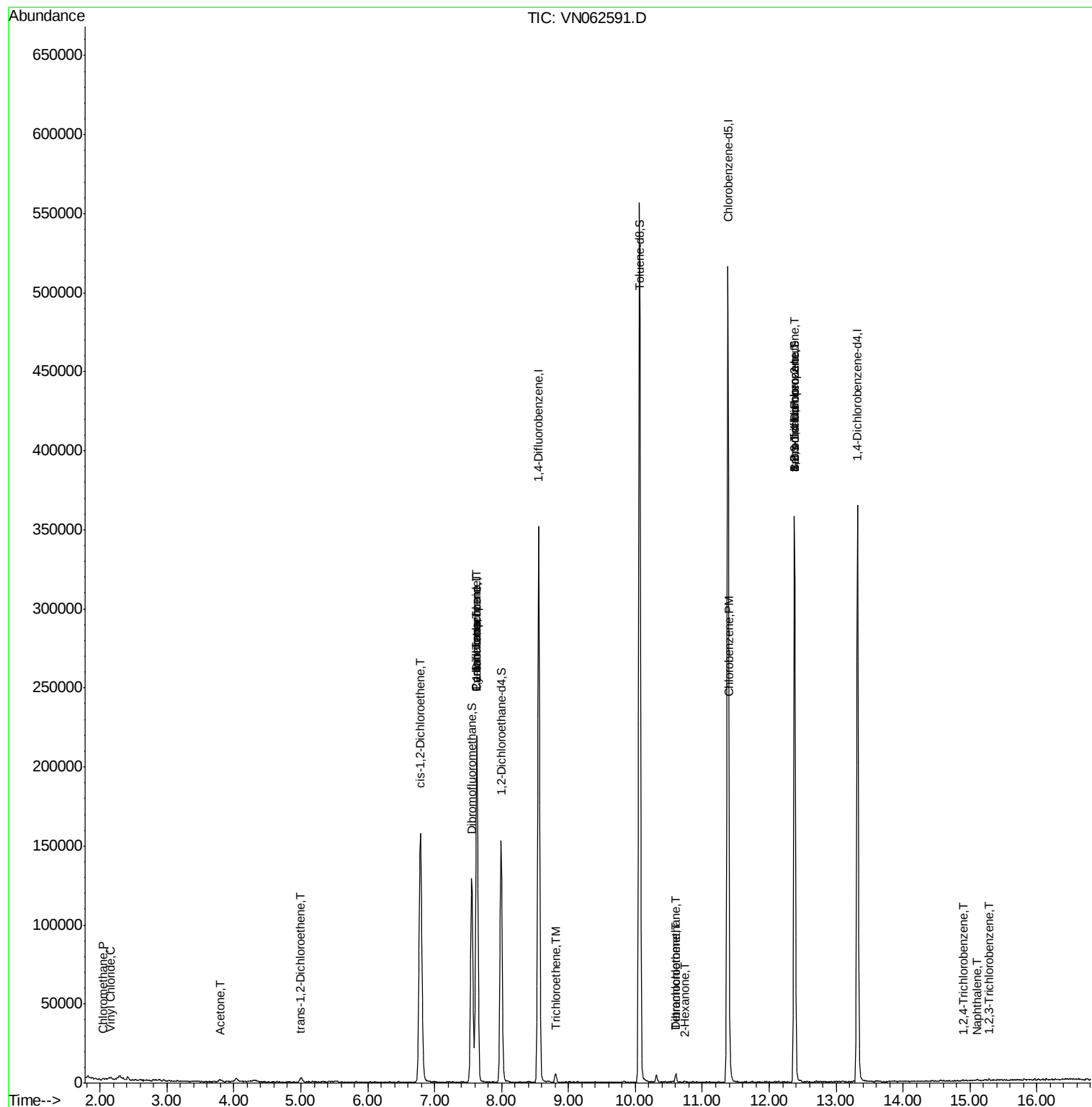
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	623	0.229	ug/l #	41
4) Vinyl Chloride	2.17	62	538	0.228	ug/l	96
16) Acetone	3.80	43	2377	2.413	ug/l	92
21) trans-1,2-Dichloroethene	4.99	96	946	0.472	ug/l #	45
27) cis-1,2-Dichloroethene	6.79	96	102583	44.888	ug/l	89
31) Cyclohexane	7.63	56	3876	1.005	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	14727	4.638	ug/l #	51
38) Carbon Tetrachloride	7.63	117	17216	5.640	ug/l #	18
44) Trichloroethene	8.81	130	2016	0.930	ug/l	92
59) 2-Hexanone	10.74	43	289	3.071	ug/l #	26
60) Dibromochloromethane	10.61	129	1452	0.601	ug/l #	11
64) Tetrachloroethene	10.60	164	1290	0.696	ug/l	93
65) Chlorobenzene	11.41	112	6201	1.037	ug/l	92
71) Bromoform	12.38	173	726	0.430	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	69088	27.897	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	69088	77.659	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.89	180	98	3.160	ug/l #	5
95) Naphthalene	15.11	128	1192	4.016	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.29	180	312	0.213	ug/l #	78

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VN062591.D

Acq: 22 Jul 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

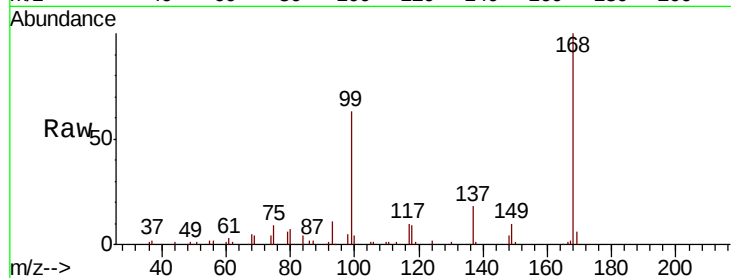
KY038PS027-200720

Tot Ion:168 Resp: 168526

Ion Ratio Lower Upper

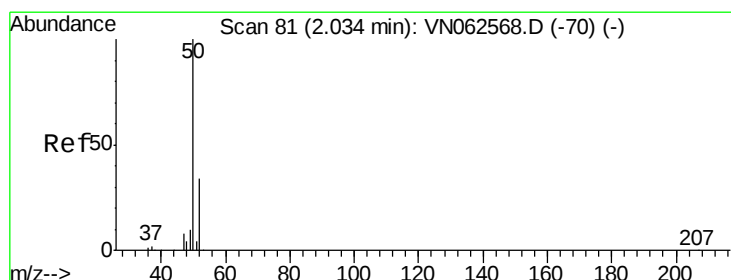
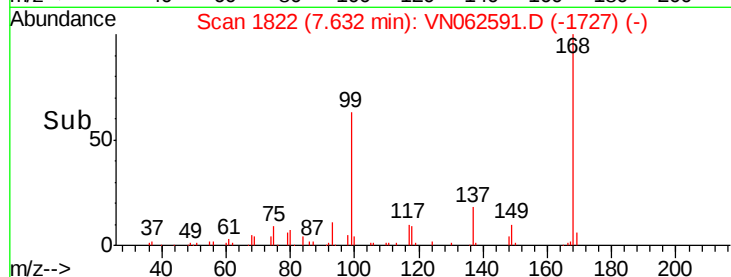
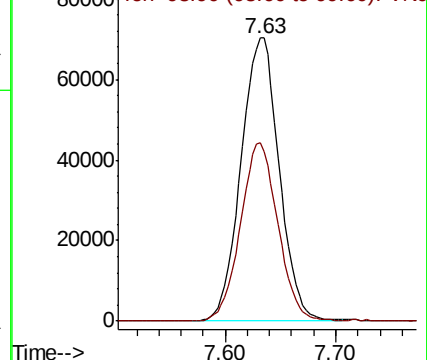
168 100

99 62.9 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.229 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.01 min

Lab File: VN062591.D

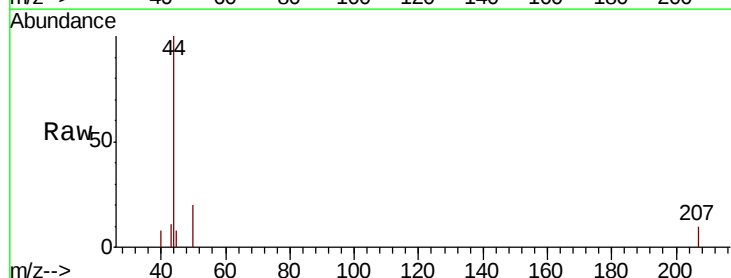
Acq: 22 Jul 2020 13:33

Tgt Ion: 50 Resp: 623

Ion Ratio Lower Upper

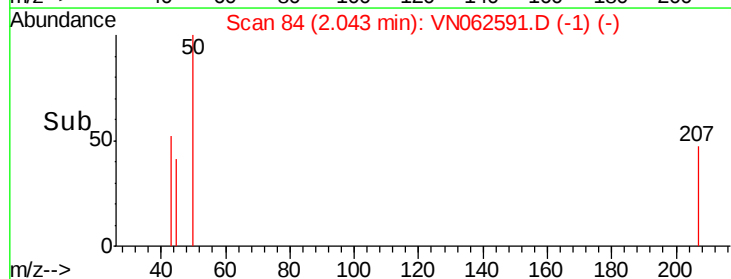
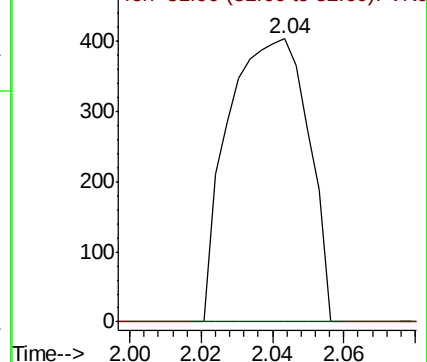
50 100

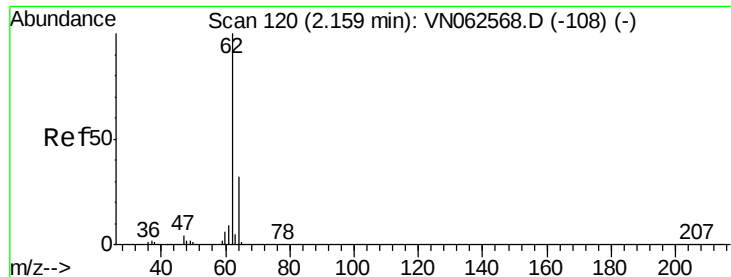
52 0.0 27.0 40.4#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#4

Vinyl Chloride

Concen: 0.228 ug/l

RT: 2.17 min Scan# 122

Delta R.T. 0.01 min

Lab File: VN062591.D

Acq: 22 Jul 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

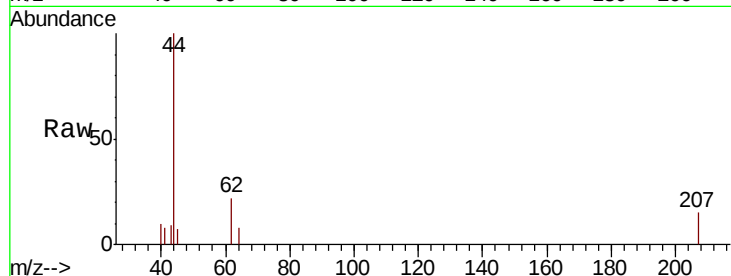
KY038PS027-200720

Tot Ion: 62 Resp: 538

Ion Ratio Lower Upper

62 100

64 34.4 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.17

500

400

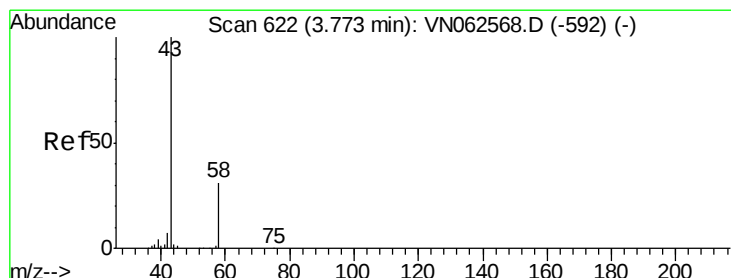
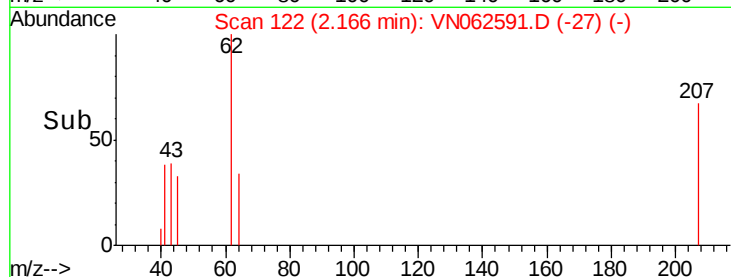
300

200

100

0

Time-->



#16

Acetone

Concen: 2.413 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN062591.D

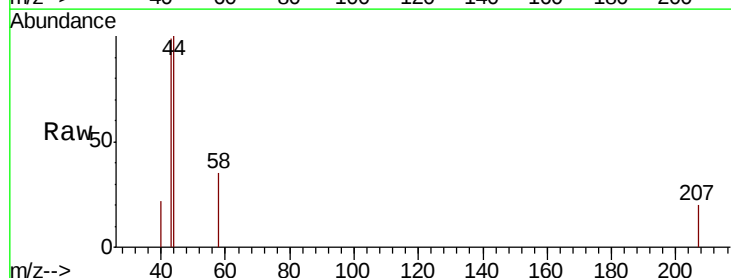
Acq: 22 Jul 2020 13:33

Tgt Ion: 43 Resp: 2377

Ion Ratio Lower Upper

43 100

58 35.1 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.80

800

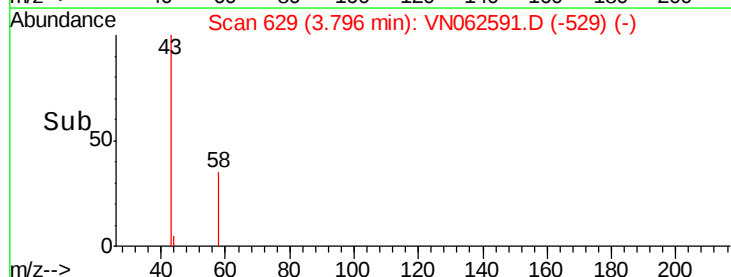
600

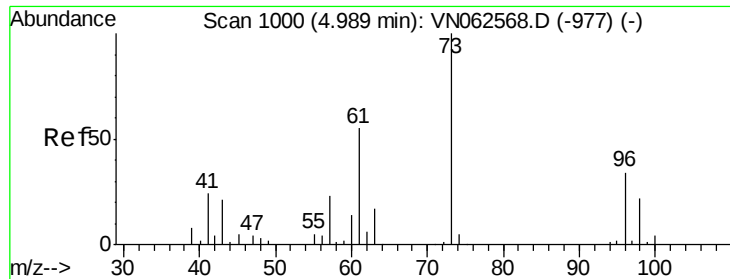
400

200

0

Time-->

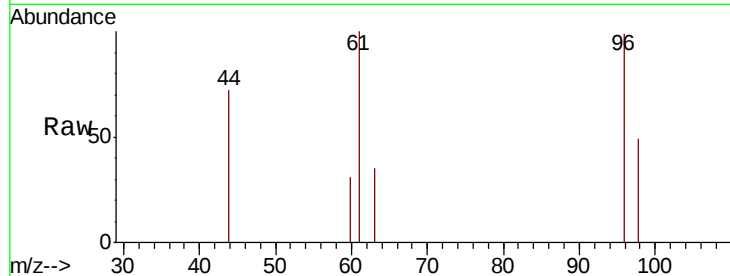




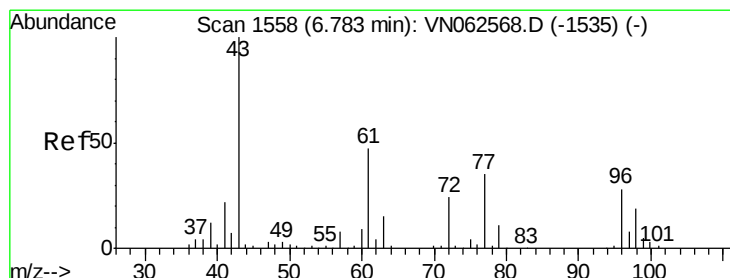
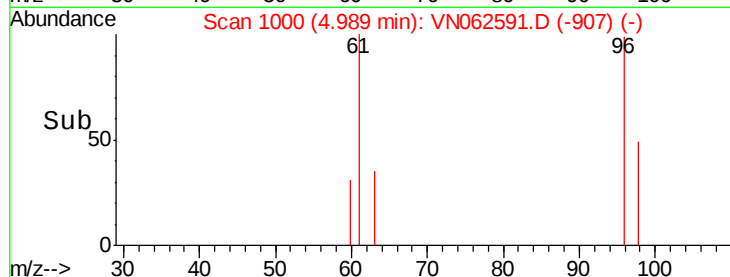
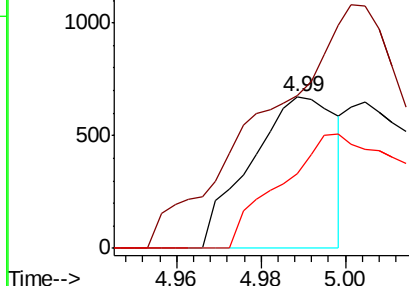
#21
trans-1,2-Dichloroethene
Concen: 0.472 ug/l
RT: 4.99 min Scan# 1000
Delta R.T. -0.00 min
Lab File: VN062591.D
Acq: 22 Jul 2020 13:33

Instrument :
MSVOA_N
ClientSampleId :
KY038PS027-200720

Tot Ion: 96 Resp: 946
Ion Ratio Lower Upper
96 100
61 68.4 128.6 192.8#
98 49.3 50.6 76.0#

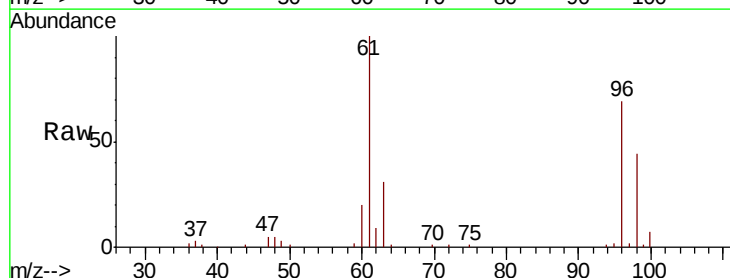


Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

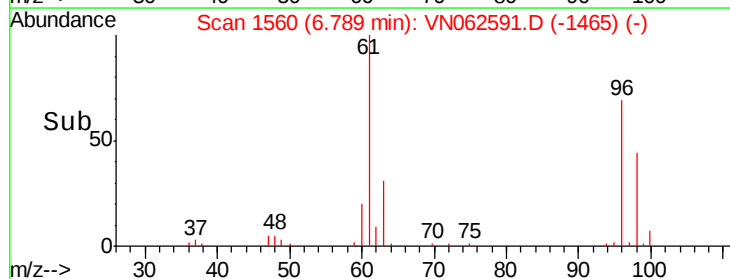
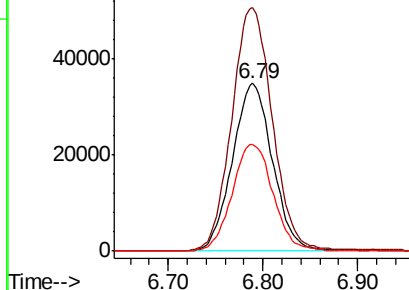


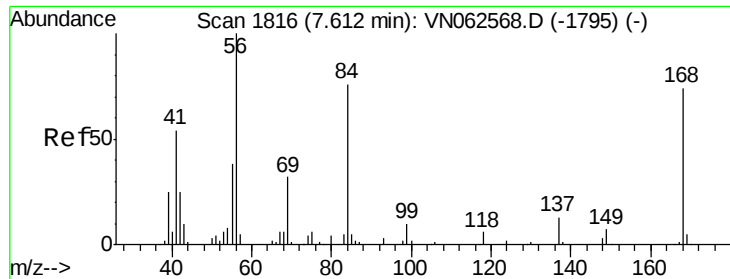
#27
cis-1,2-Dichloroethene
Concen: 44.888 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN062591.D
Acq: 22 Jul 2020 13:33

Tgt Ion: 96 Resp: 102583
Ion Ratio Lower Upper
96 100
61 147.0 0.0 332.4
98 64.9 0.0 127.4



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

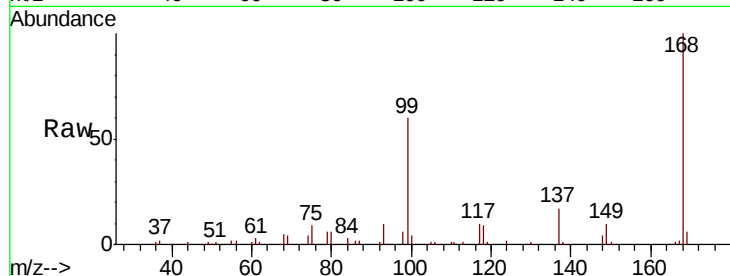




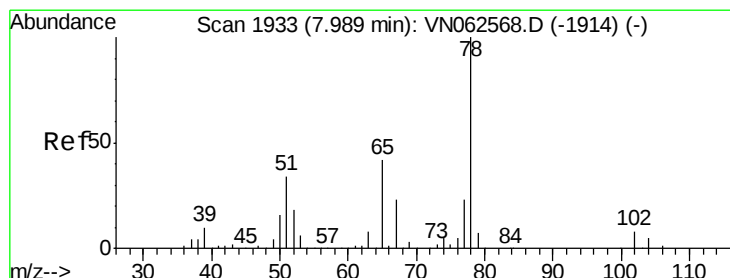
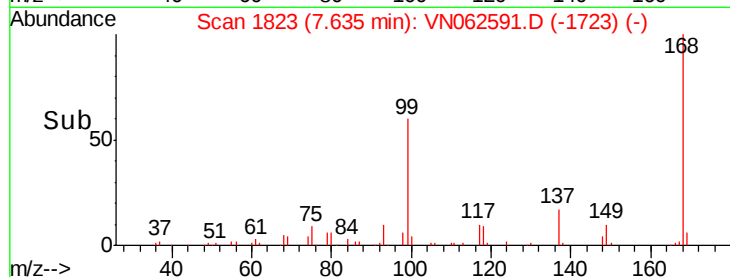
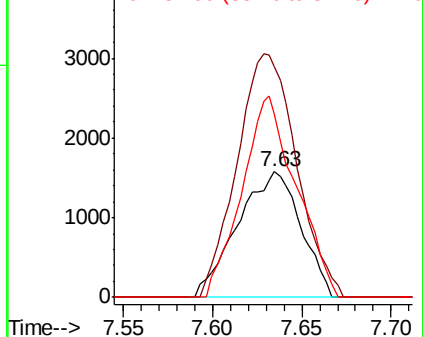
#31
Cyclohexane
Concen: 1.005 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.02 min
Lab File: VN062591.D
Acq: 22 Jul 2020 13:33

Instrument :
MSVOA_N
ClientSampleId :
KY038PS027-200720

Tot Ion: 56 Resp: 3876
Ion Ratio Lower Upper
56 100
69 184.3 25.3 37.9#
84 146.2 61.0 91.4#

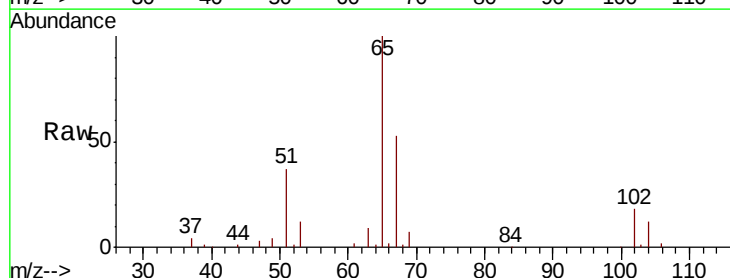


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

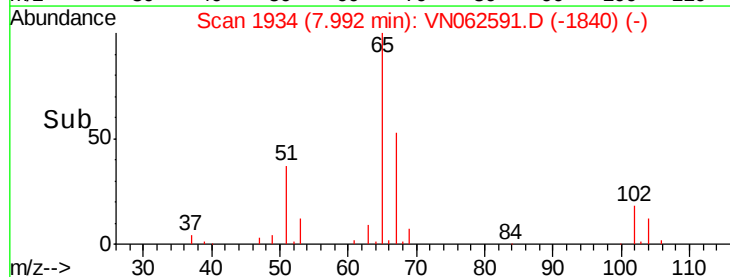
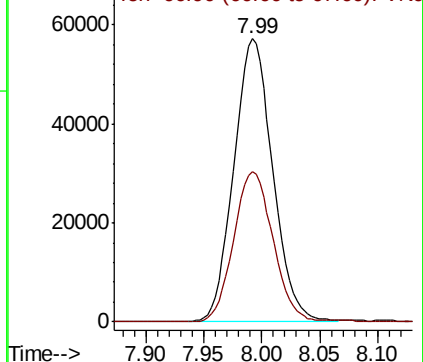


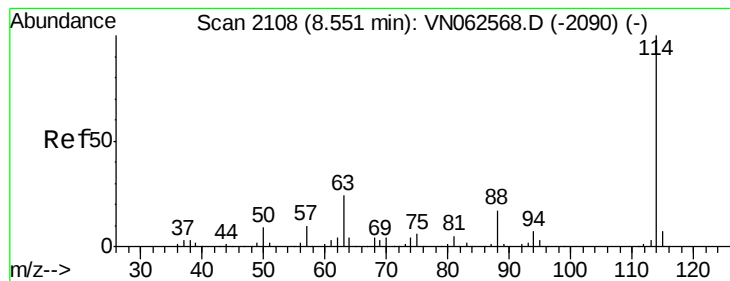
#33
1,2-Dichloroethane-d4
Concen: 50.881 ug/l
RT: 7.99 min Scan# 1934
Delta R.T. 0.00 min
Lab File: VN062591.D
Acq: 22 Jul 2020 13:33

Tgt Ion: 65 Resp: 133204
Ion Ratio Lower Upper
65 100
67 53.6 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# 2109

Delta R.T. 0.00 min

Lab File: VN062591.D

Acq: 22 Jul 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

KY038PS027-200720

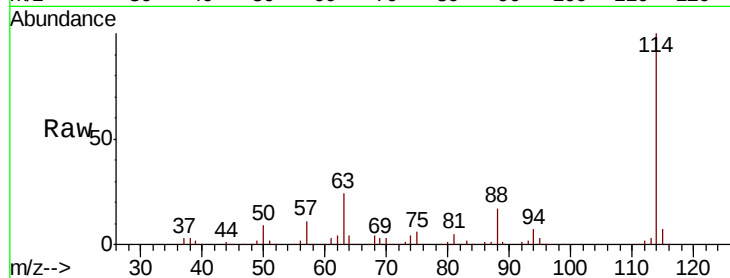
Tot Ion:114 Resp: 297910

Ion Ratio Lower Upper

114 100

63 24.3 0.0 48.4

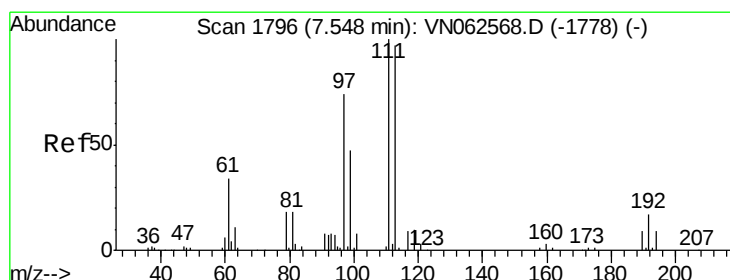
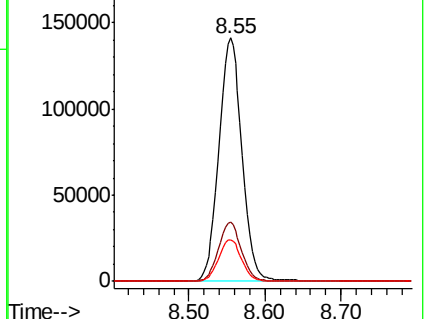
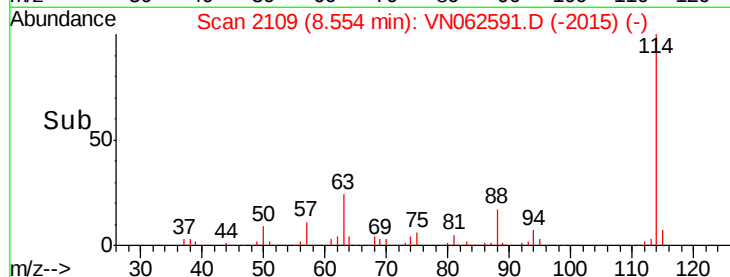
88 17.1 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.068 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. 0.01 min

Lab File: VN062591.D

Acq: 22 Jul 2020 13:33

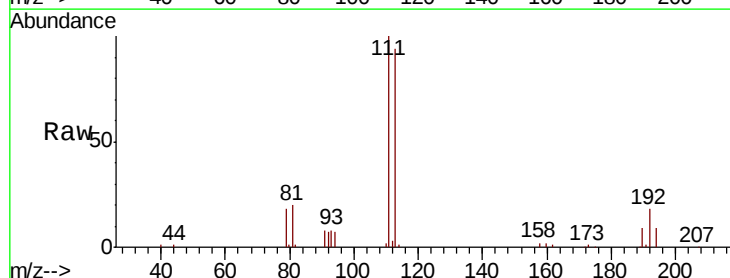
Tgt Ion:113 Resp: 97975

Ion Ratio Lower Upper

113 100

111 106.1 82.7 124.1

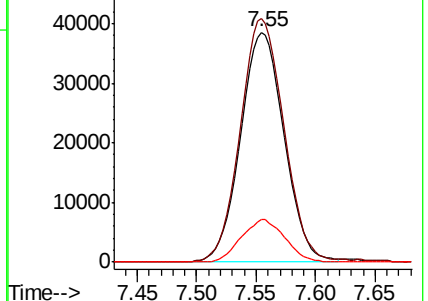
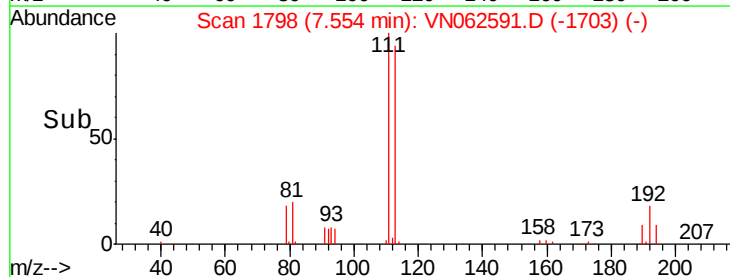
192 18.4 14.8 22.2

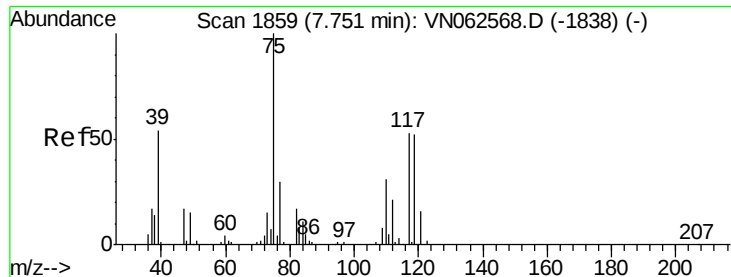


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

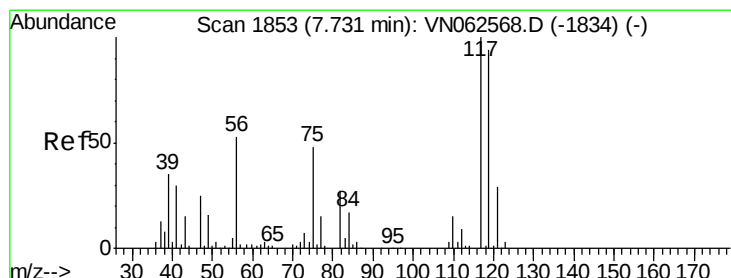
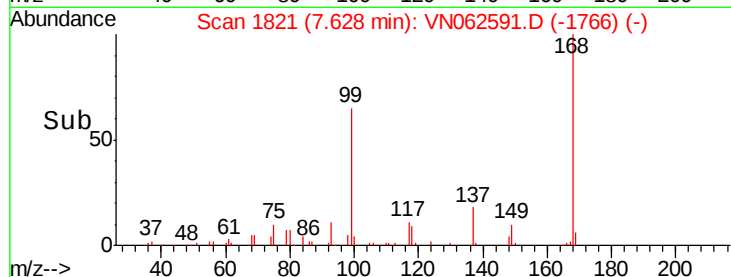
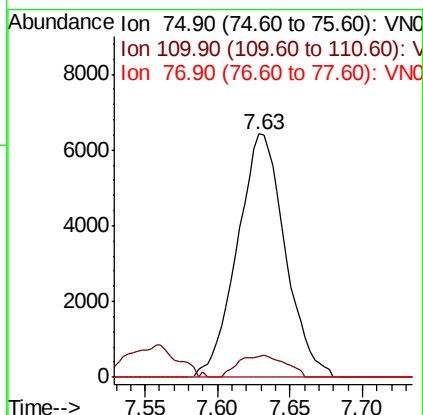
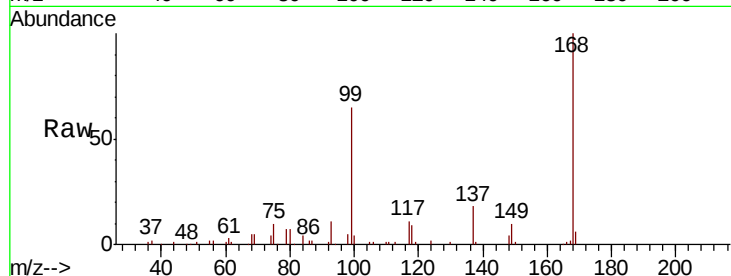




#36
 1,1-Dichloropropene
 Concen: 4.638 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062591.D
 Acq: 22 Jul 2020 13:33

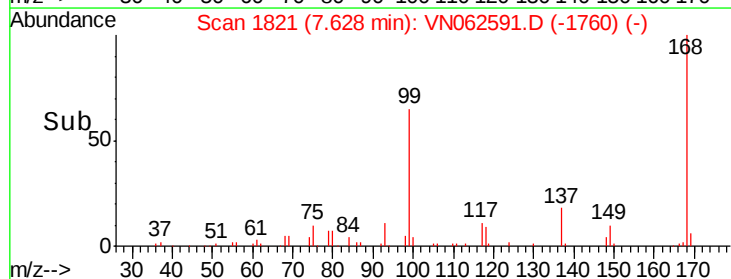
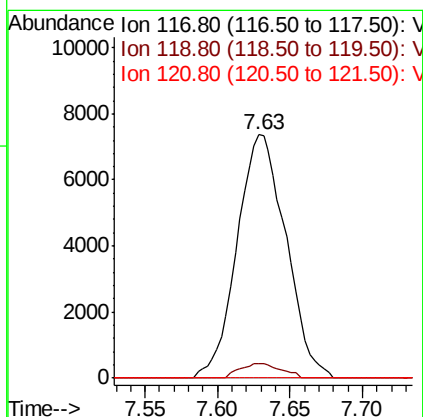
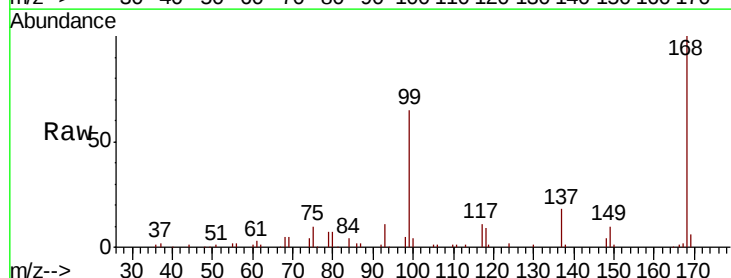
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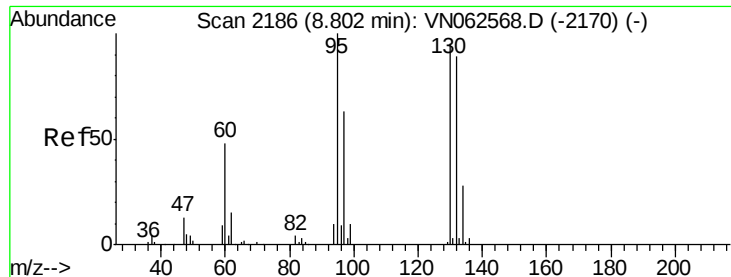
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	16.0	48.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.640 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.10 min
 Lab File: VN062591.D
 Acq: 22 Jul 2020 13:33

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	74.8	112.2#
121	0.0	23.0	34.6#





#44

Trichloroethene

Concen: 0.930 ug/l

RT: 8.81 min Scan# 2187

Delta R.T. 0.00 min

Lab File: VN062591.D

Acq: 22 Jul 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

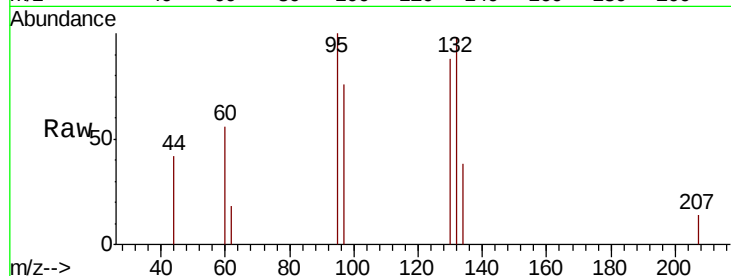
KY038PS027-200720

Tot Ion:130 Resp: 2016

Ion Ratio Lower Upper

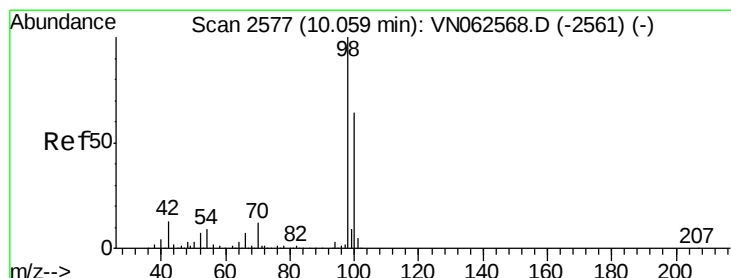
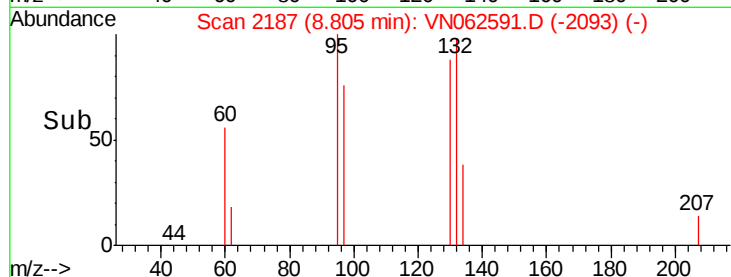
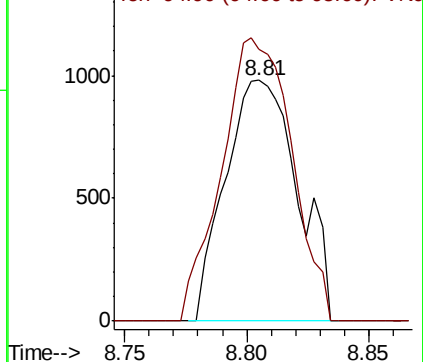
130 100

95 113.3 0.0 210.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 48.735 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN062591.D

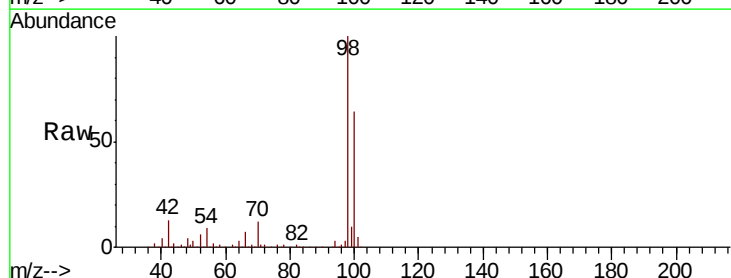
Acq: 22 Jul 2020 13:33

Tgt Ion: 98 Resp: 380507

Ion Ratio Lower Upper

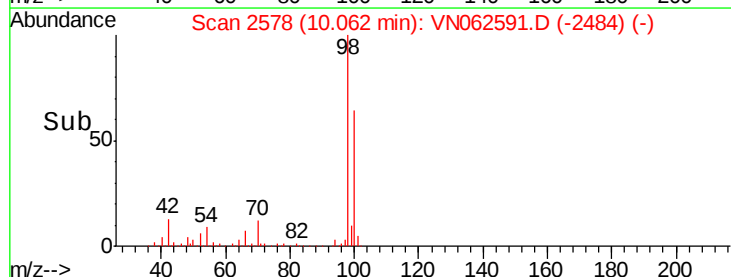
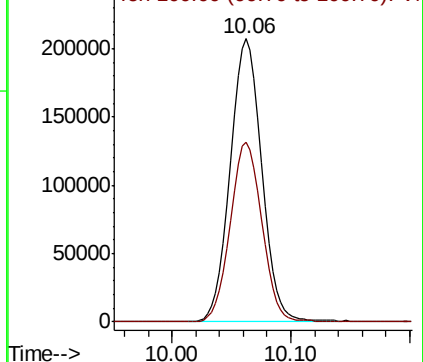
98 100

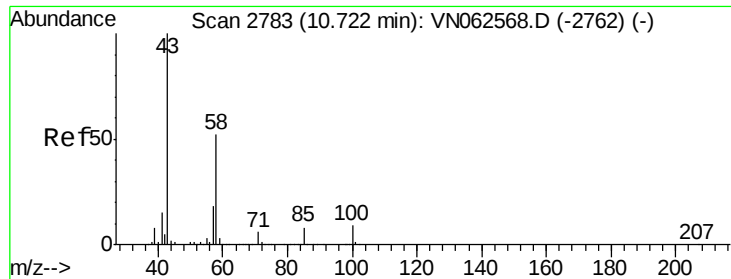
100 63.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#59

2-Hexanone

Concen: 3.071 ug/l

RT: 10.74 min Scan# 2790

Delta R.T. 0.02 min

Lab File: VN062591.D

Acq: 22 Jul 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

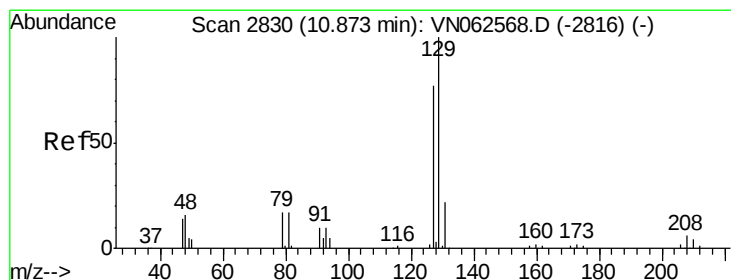
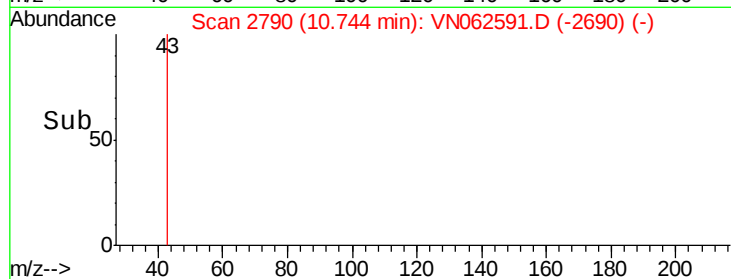
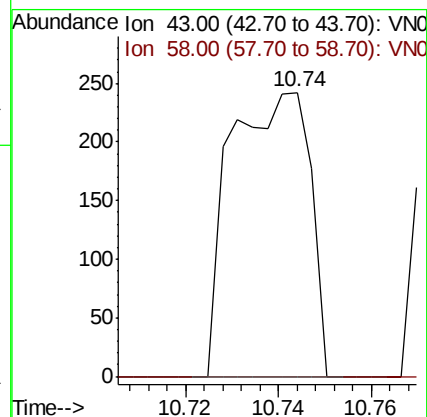
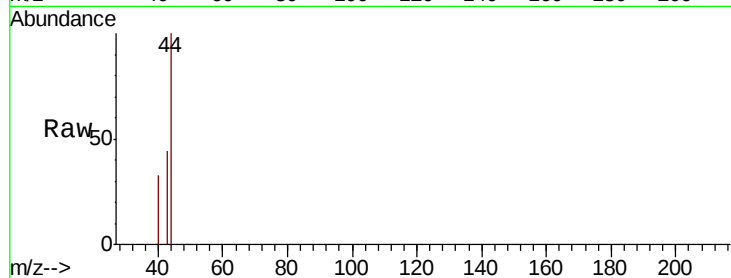
KY038PS027-200720

Tot Ion: 43 Resp: 289

Ion Ratio Lower Upper

43 100

58 0.0 26.0 78.0#



#60

Dibromochloromethane

Concen: 0.601 ug/l

RT: 10.61 min Scan# 2747

Delta R.T. -0.27 min

Lab File: VN062591.D

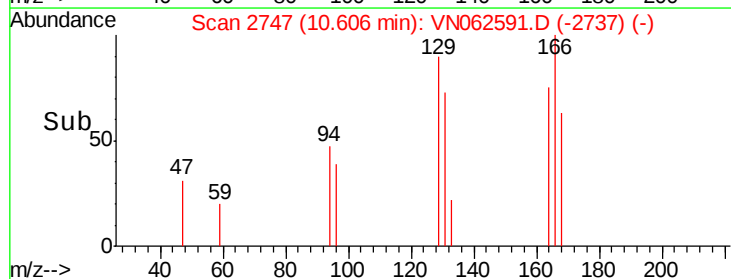
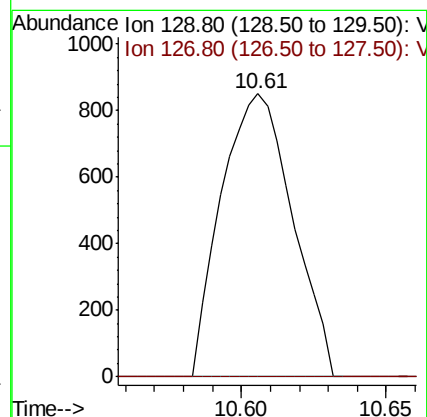
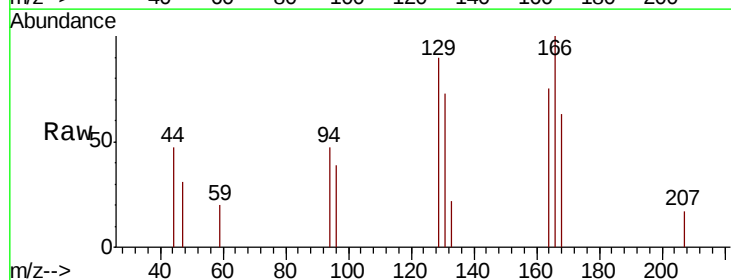
Acq: 22 Jul 2020 13:33

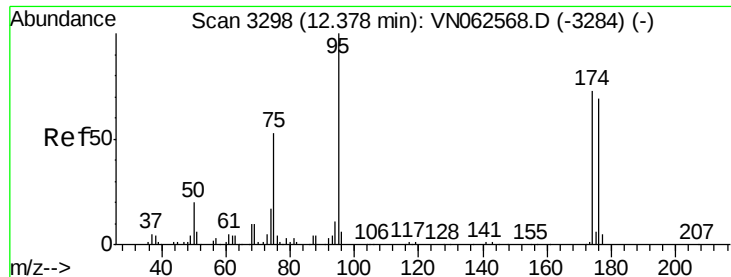
Tgt Ion: 129 Resp: 1452

Ion Ratio Lower Upper

129 100

127 0.0 38.0 113.9#

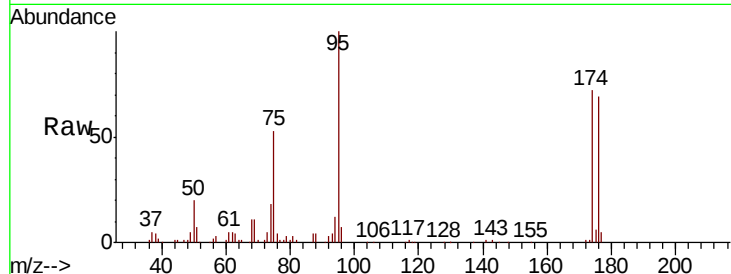




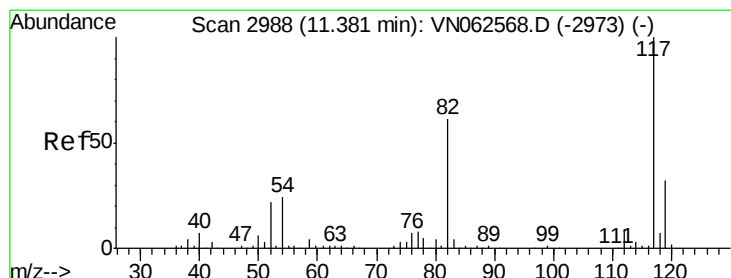
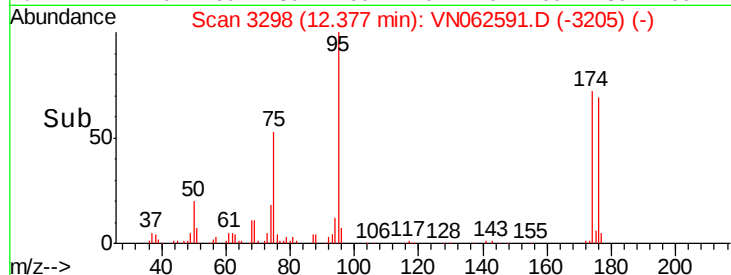
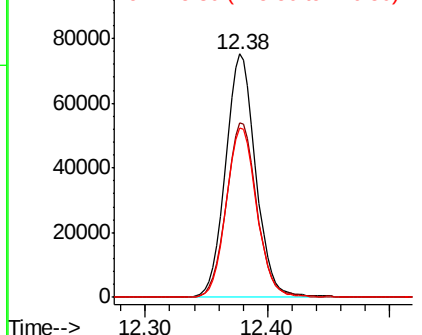
#62
4-Bromofluorobenzene
Concen: 45.564 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062591.D
Acq: 22 Jul 2020 13:33

Instrument :
MSVOA_N
ClientSampleId :
KY038PS027-200720

Tot Ion: 95 Resp: 130076
Ion Ratio Lower Upper
95 100
174 72.7 0.0 144.6
176 70.5 0.0 139.4

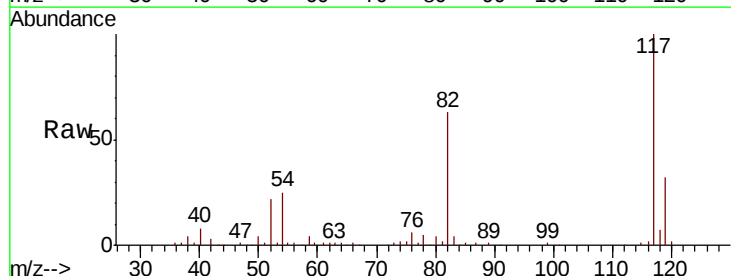


Abundance Ion 94.90 (94.60 to 95.60): VN062568.D (-3284) (-)
Ion 173.80 (173.50 to 174.50): VN062568.D (-3284) (-)
Ion 175.80 (175.50 to 176.50): VN062568.D (-3284) (-)

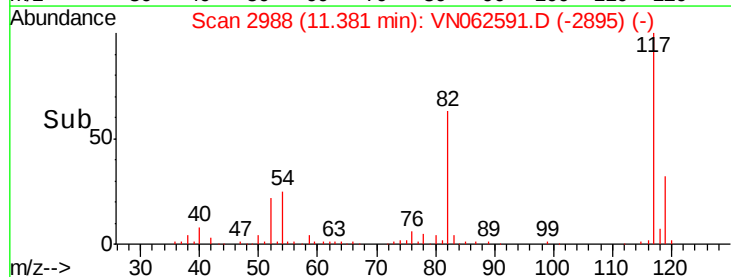
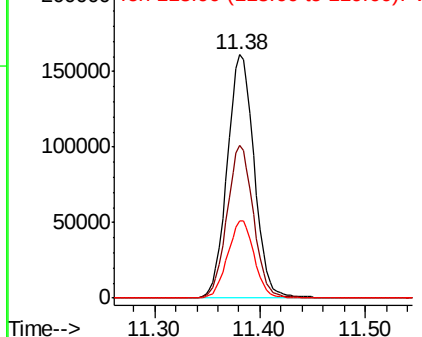


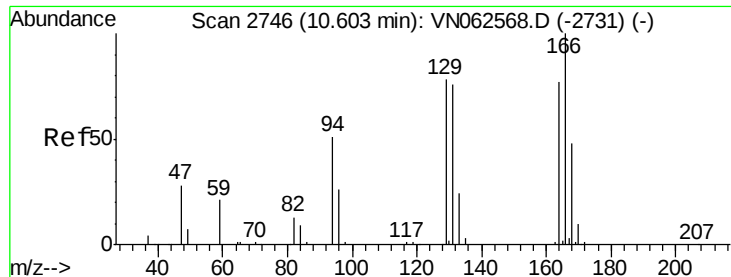
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062591.D
Acq: 22 Jul 2020 13:33

Tgt Ion: 117 Resp: 285167
Ion Ratio Lower Upper
117 100
82 62.9 49.0 73.6
119 31.6 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): VN062568.D (-2973) (-)
Ion 82.00 (81.70 to 82.70): VN062568.D (-2973) (-)
Ion 118.90 (118.60 to 119.60): VN062568.D (-2973) (-)





#64

Tetrachloroethene

Concen: 0.696 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.00 min

Lab File: VN062591.D

Acq: 22 Jul 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

KY038PS027-200720

Tot Ion:164 Resp: 1290

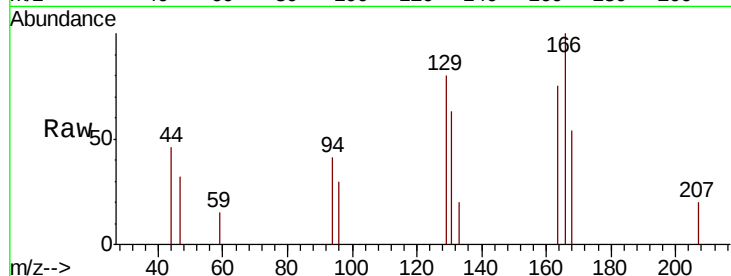
Ion Ratio Lower Upper

164 100

166 133.2 104.4 156.6

129 106.3 81.0 121.4

131 84.1 79.4 119.2

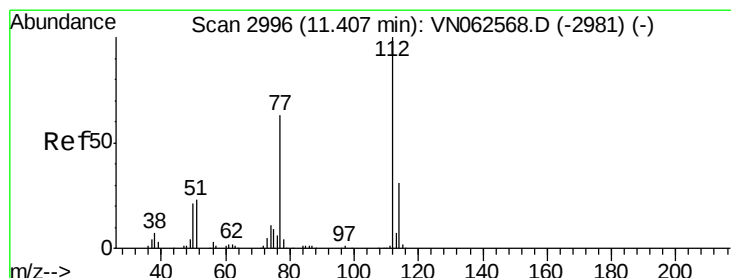
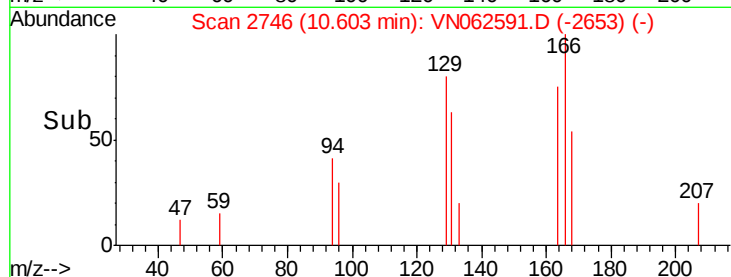
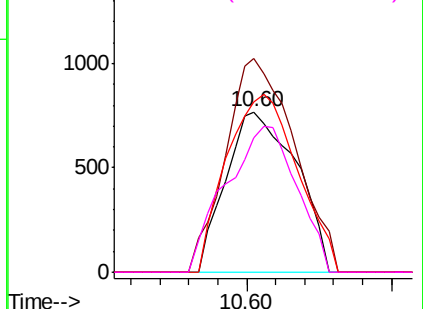


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 1.037 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN062591.D

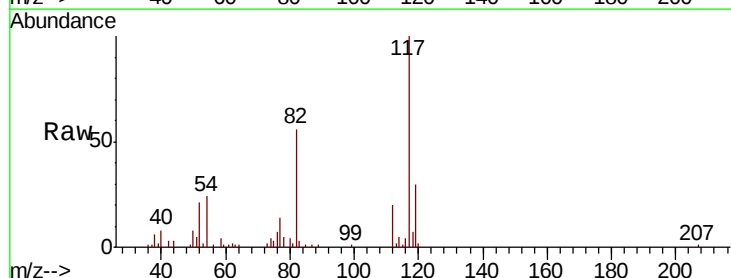
Acq: 22 Jul 2020 13:33

Tgt Ion:112 Resp: 6201

Ion Ratio Lower Upper

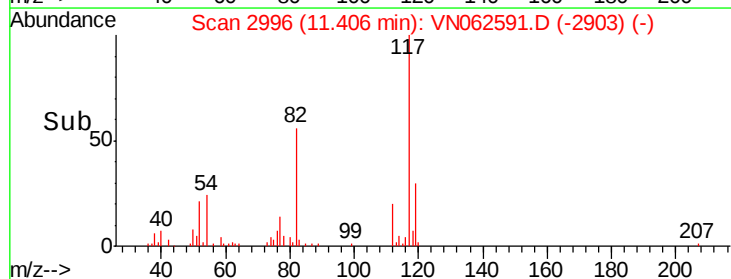
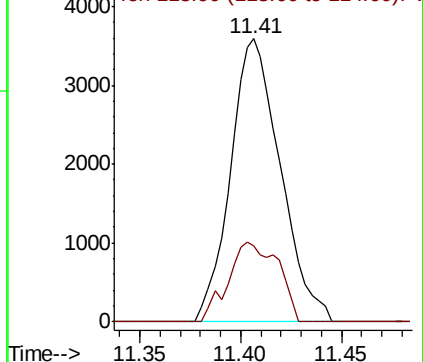
112 100

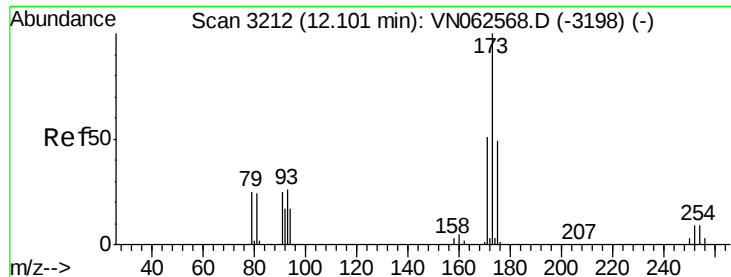
114 26.8 25.1 37.7



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.430 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062591.D

Acq: 22 Jul 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

KY038PS027-200720

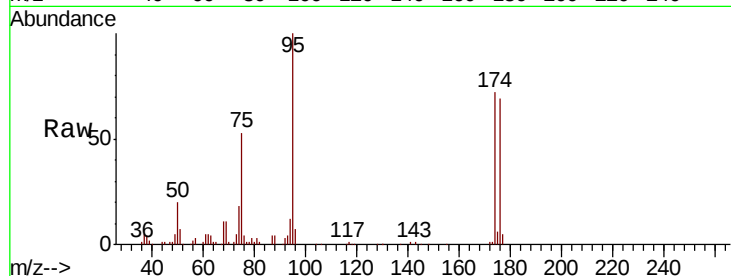
Tot Ion:173 Resp: 726

Ion Ratio Lower Upper

173 100

175 774.2 24.1 72.2#

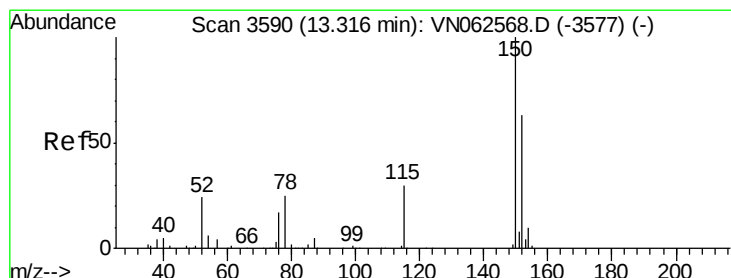
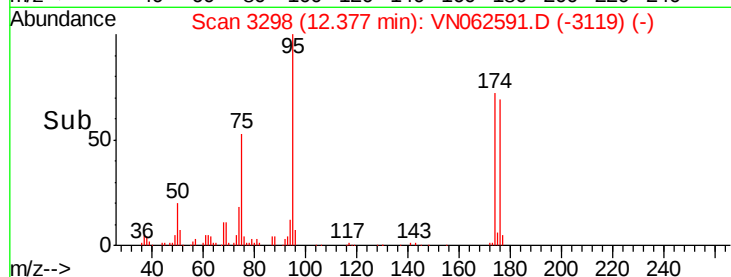
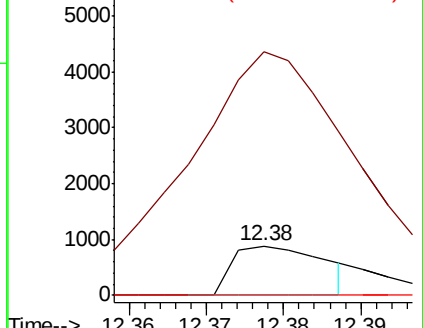
254 0.0 0.0 0.0



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: VN062591.D

Acq: 22 Jul 2020 13:33

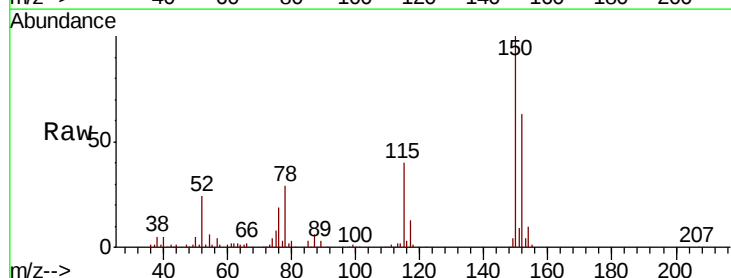
Tgt Ion:152 Resp: 97296

Ion Ratio Lower Upper

152 100

115 63.2 31.8 95.4

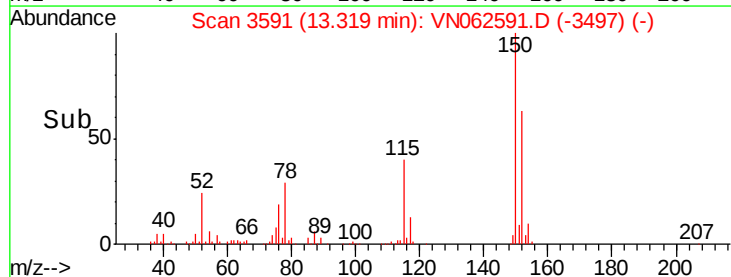
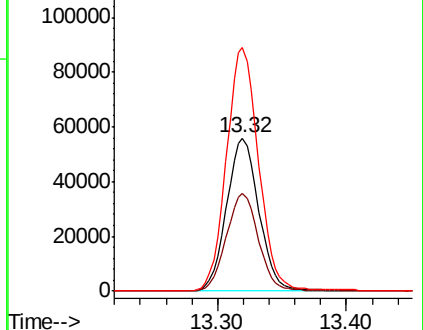
150 158.1 0.0 351.4

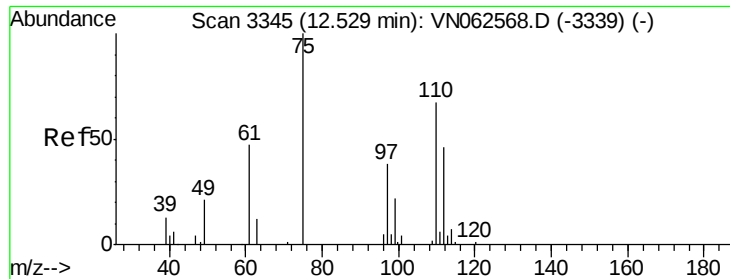


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.897 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062591.D

Acq: 22 Jul 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

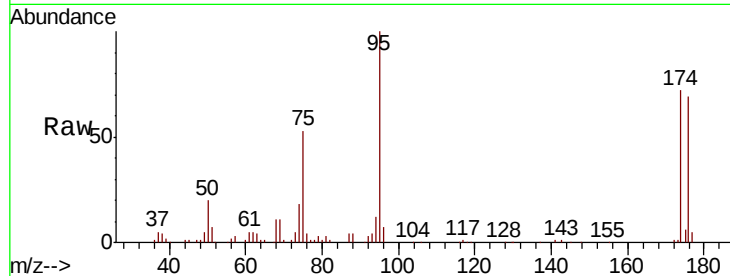
KY038PS027-200720

Tot Ion: 75 Resp: 69088

Ion Ratio Lower Upper

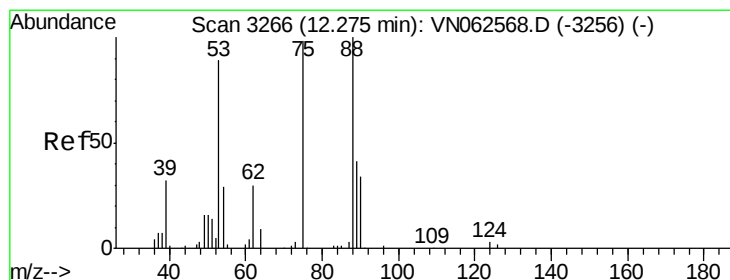
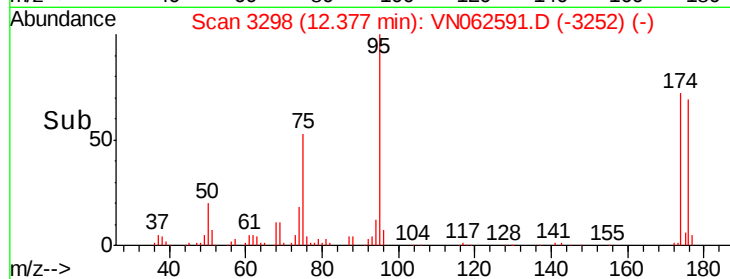
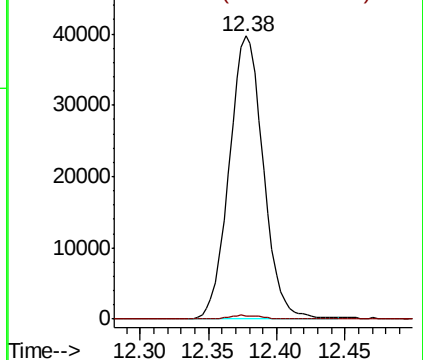
75 100

77 1.2 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: 77.659 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062591.D

Acq: 22 Jul 2020 13:33

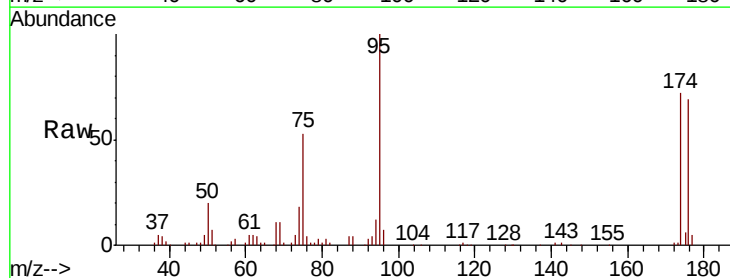
Tgt Ion: 75 Resp: 69088

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

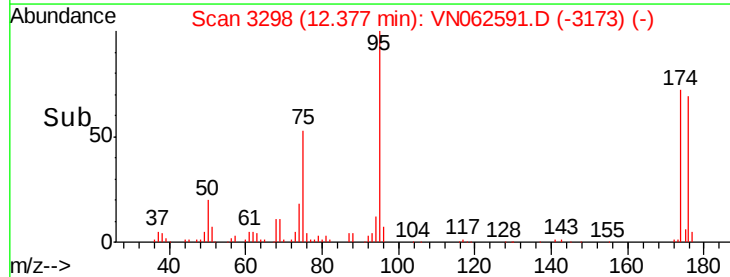
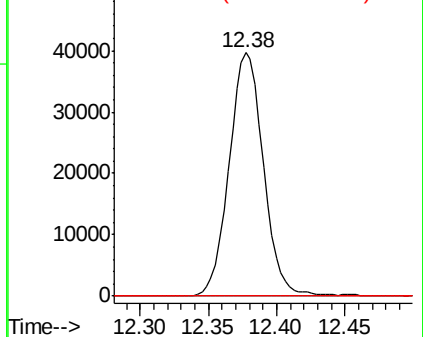
89 0.0 34.5 51.7#

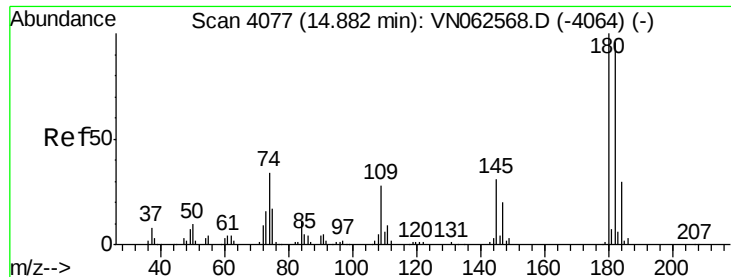


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

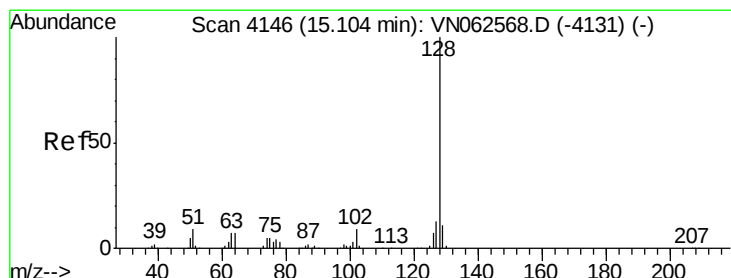
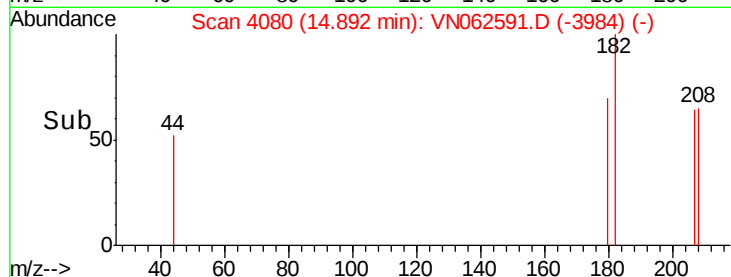
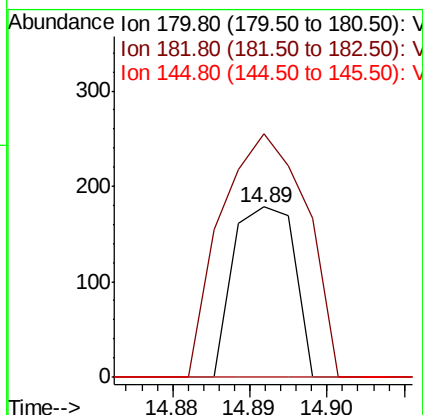
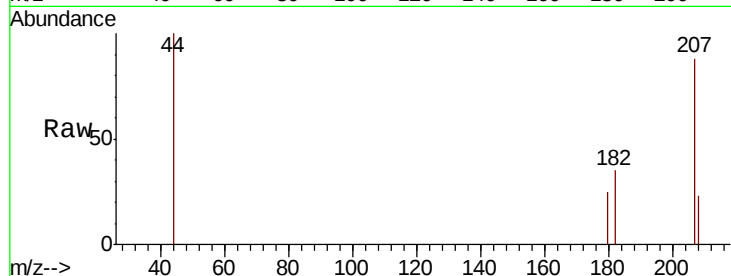




#93
 1,2,4-Trichlorobenzene
 Concen: 3.160 ug/l
 RT: 14.89 min Scan# 4080
 Delta R.T. 0.01 min
 Lab File: VN062591.D
 Acq: 22 Jul 2020 13:33

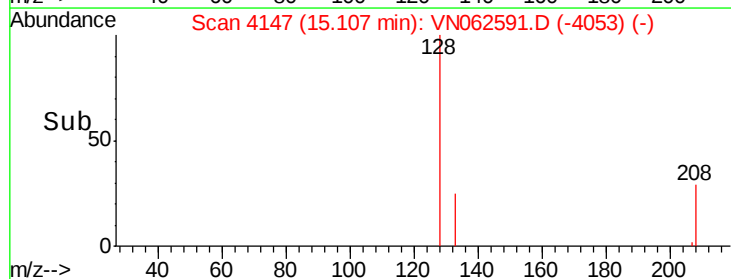
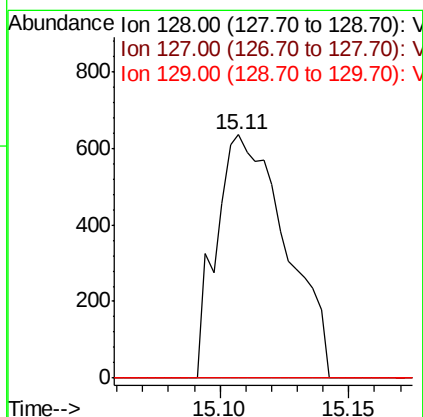
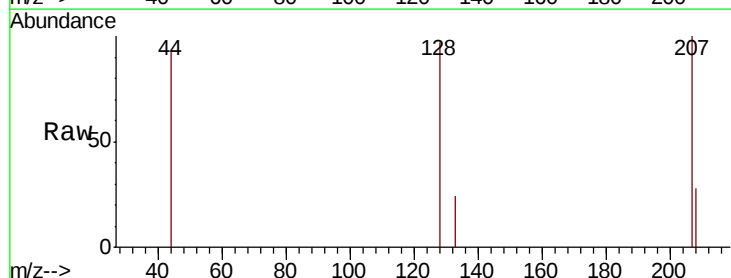
Instrument :
 MSVOA_N
 ClientSampleId :
 KY038PS027-200720

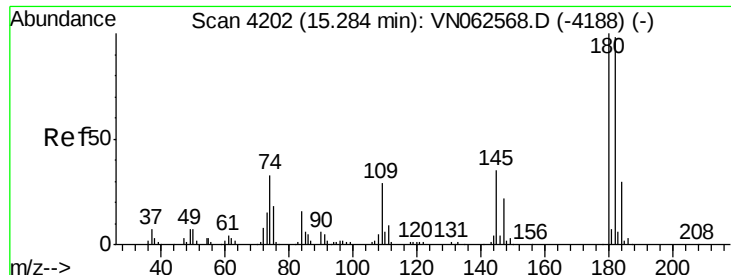
Tot Ion:180 Resp: 98
 Ion Ratio Lower Upper
 180 100
 182 200.0 47.8 143.3#
 145 0.0 15.3 45.9#



#95
 Naphthalene
 Concen: 4.016 ug/l
 RT: 15.11 min Scan# 4147
 Delta R.T. 0.00 min
 Lab File: VN062591.D
 Acq: 22 Jul 2020 13:33

Tgt Ion:128 Resp: 1192
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.213 ug/l
 RT: 15.29 min Scan# 4203
 Delta R.T. 0.00 min
 Lab File: VN062591.D
 Acq: 22 Jul 2020 13:33

Instrument :
 MSVOA_N
 ClientSampleId :
 KY038PS027-200720

Tot Ion:180 Resp: 312
 Ion Ratio Lower Upper
 180 100
 182 105.4 48.1 144.3
 145 0.0 16.7 50.1#

