

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121120\
 Data File : VX019885.D
 Acq On : 11 Dec 2020 19:20
 Operator : JC/MD
 Sample : L4996-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP02-20201208

Quant Time: Dec 12 00:05:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	316823	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	528088	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	494822	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	216904	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	202049	48.52	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	97.04%		
35) Dibromofluoromethane	5.46	113	161426	47.30	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	94.60%		
50) Toluene-d8	8.70	98	640938	49.19	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	98.38%		
62) 4-Bromofluorobenzene	11.12	95	234541	47.29	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	94.58%		

Target Compounds

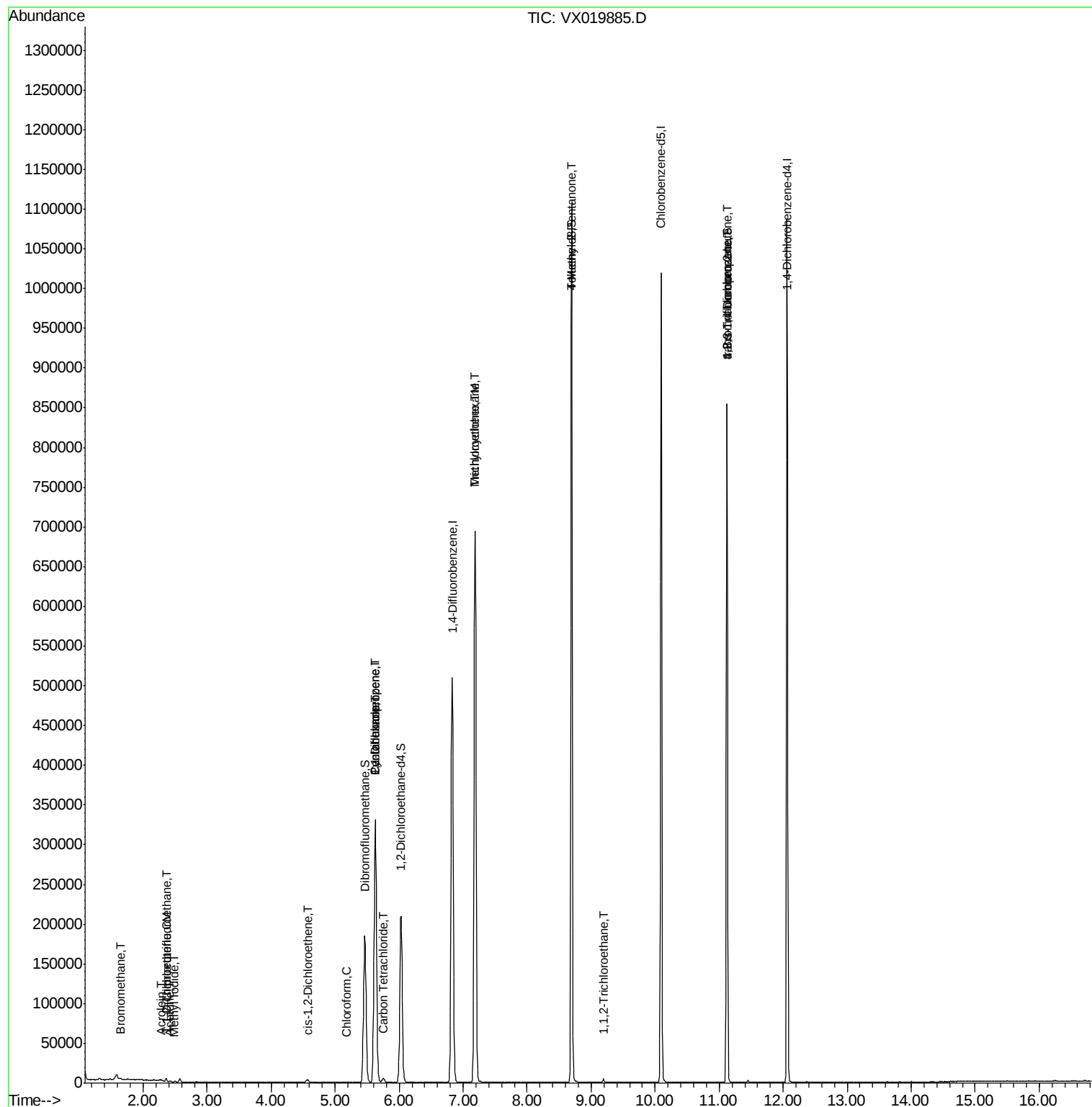
					Qvalue
5) Bromomethane	1.64	94	597	0.500 ug/l #	79
9) 1,1,2-Trichlorotrifluoroet	2.36	101	837	0.292 ug/l	94
10) Methyl Iodide	2.50	142	1238	0.293 ug/l	99
11) Tert butyl alcohol	3.01	59	519	Below Cal #	73
12) 1,1-Dichloroethene	2.35	96	1093	0.377 ug/l	92
13) Acrolein	2.28	56	107	0.233 ug/l #	1
16) Acetone	2.42	43	1463	0.935 ug/l #	87
20) Methylene Chloride	2.83	84	420	Below Cal #	90
27) cis-1,2-Dichloroethene	4.56	96	2387	0.603 ug/l	87
30) Chloroform	5.18	83	1524	0.248 ug/l #	78
31) Cyclohexane	5.63	56	5757	1.111 ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23954	5.020 ug/l #	49
38) Carbon Tetrachloride	5.76	117	4533	0.970 ug/l	99
39) Methylcyclohexane	7.18	83	3412	0.609 ug/l #	1
44) Trichloroethene	7.19	130	274775	71.843 ug/l	98
51) 4-Methyl-2-Pentanone	8.70	43	2662	0.557 ug/l #	1
55) 1,1,2-Trichloroethane	9.20	97	1233	0.336 ug/l #	85
76) 1,2,3-Trichloropropane	11.12	75	111918	23.006 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	111918	66.505 ug/l #	12

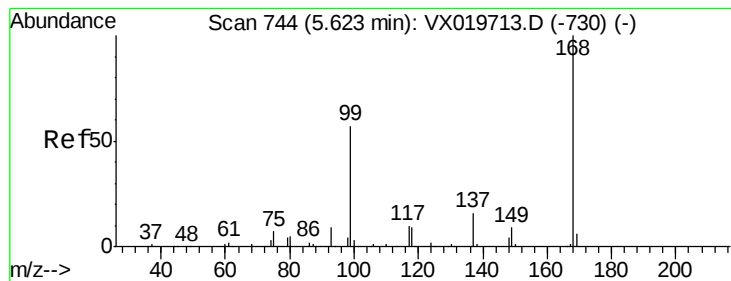
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019885.D

Acq: 11 Dec 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

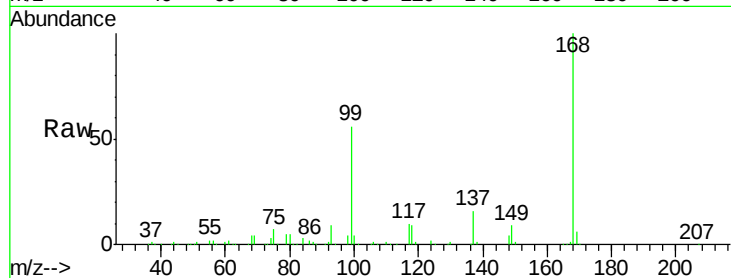
DUP02-20201208

Tgt Ion:168 Resp: 316823

Ion Ratio Lower Upper

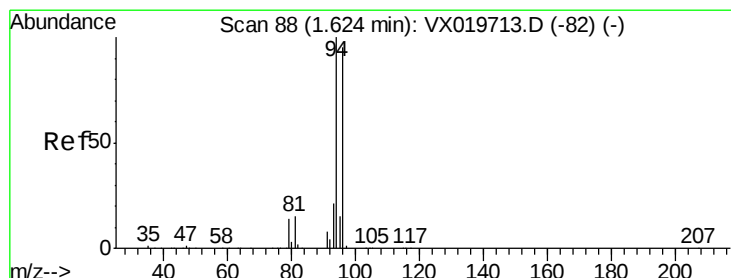
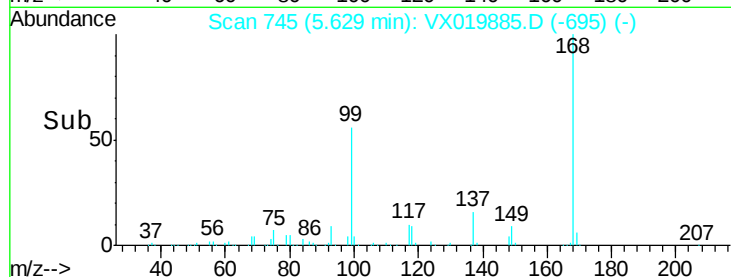
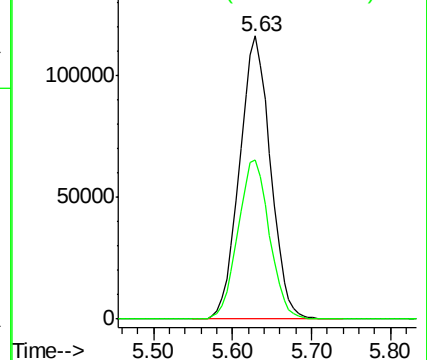
168 100

99 56.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.500 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019885.D

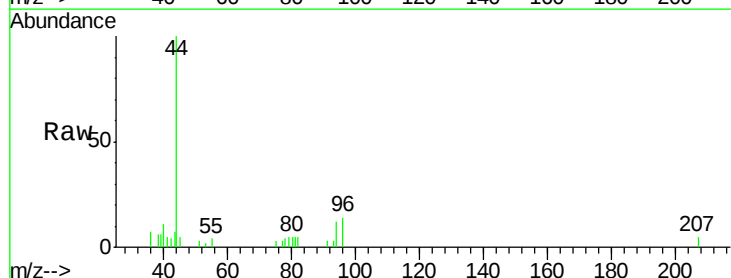
Acq: 11 Dec 2020 19:20

Tgt Ion: 94 Resp: 597

Ion Ratio Lower Upper

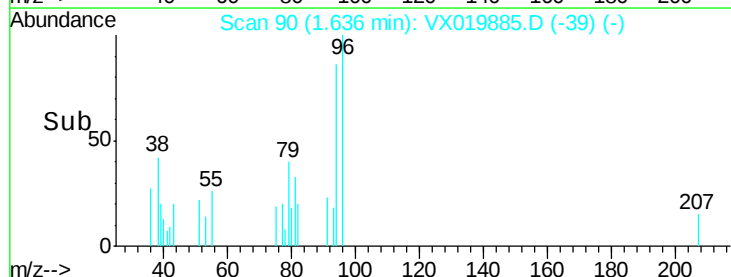
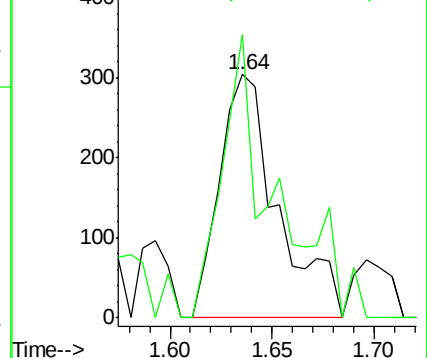
94 100

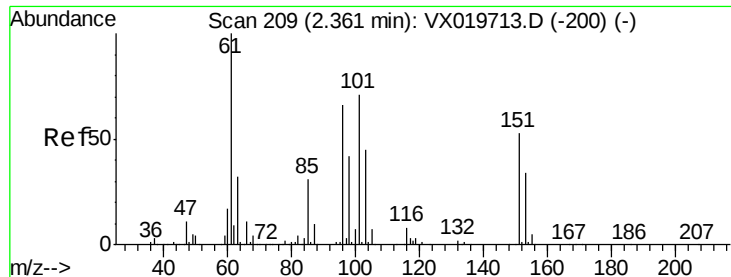
96 116.1 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.292 ug/l

RT: 2.36 min Scan# 209

Delta R.T. -0.00 min

Lab File: VX019885.D

Acq: 11 Dec 2020 19:20

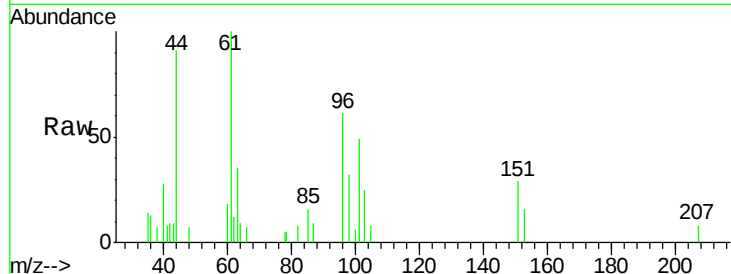
Instrument :

MSVOA_X

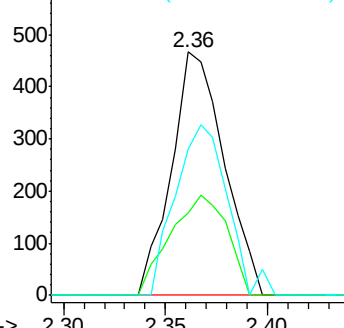
ClientSampleId :

DUP02-20201208

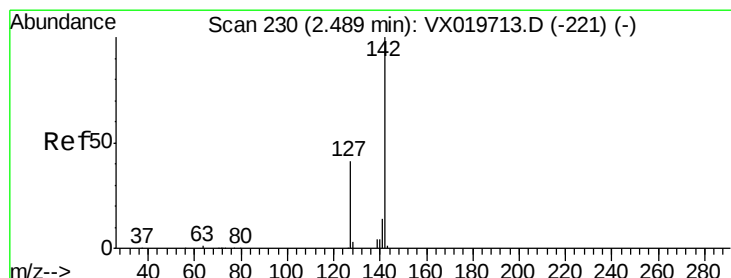
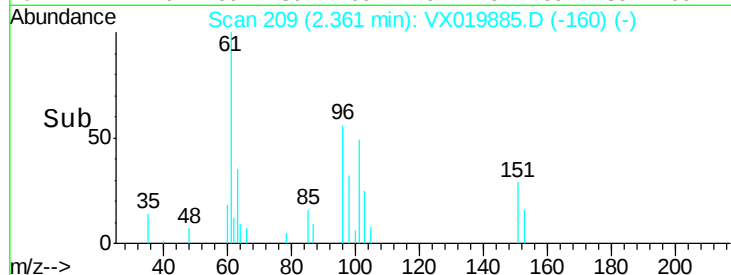
Tgt Ion:	101	Resp:	837
Ion	Ratio	Lower	Upper
101	100		
85	44.4	34.9	52.3
151	69.4	61.4	92.2



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



Time-->



#10

Methyl Iodide

Concen: 0.293 ug/l

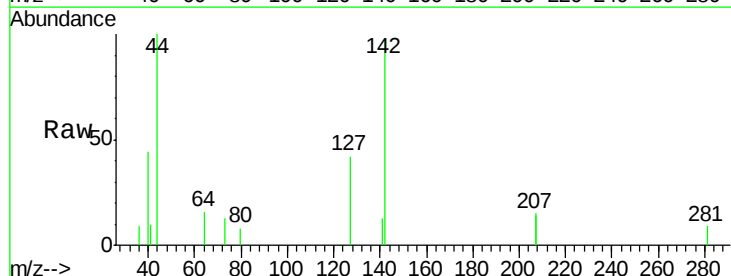
RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

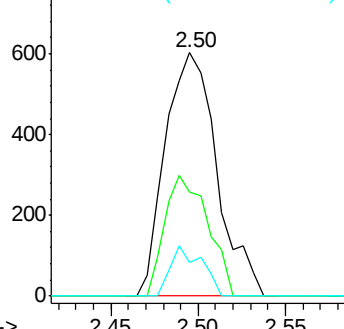
Lab File: VX019885.D

Acq: 11 Dec 2020 19:20

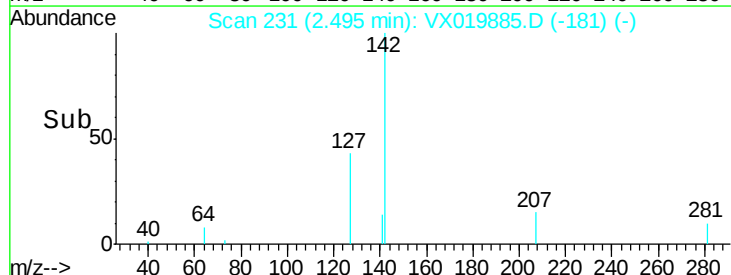
Tgt Ion:	142	Resp:	1238
Ion	Ratio	Lower	Upper
142	100		
127	41.4	33.3	49.9
141	12.5	11.4	17.0

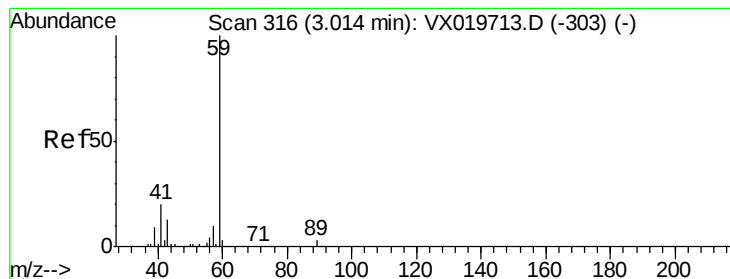


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V



Time-->



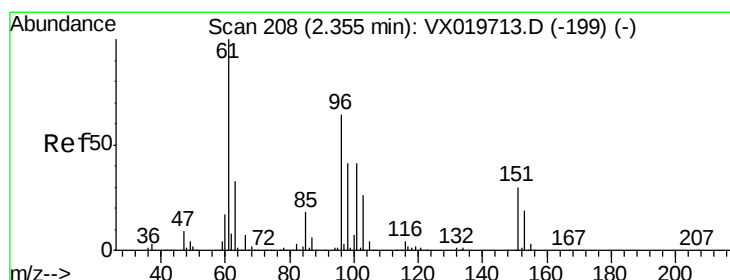
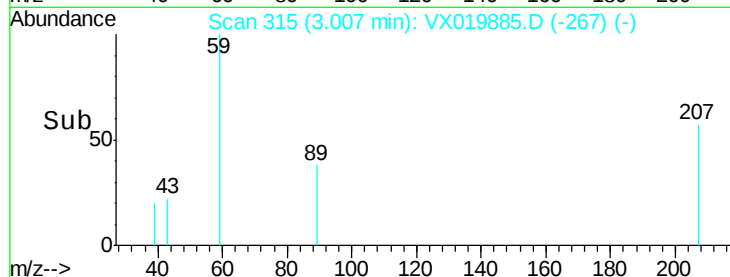
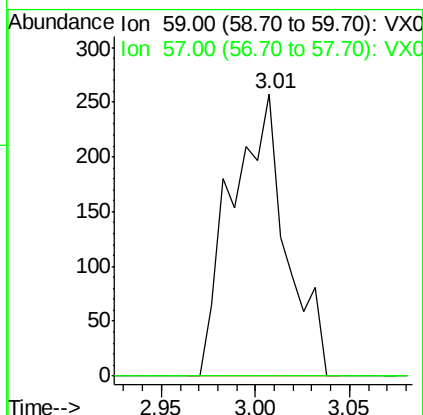
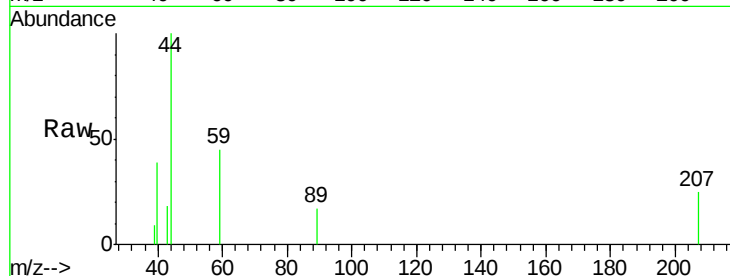


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX019885.D
 Acq: 11 Dec 2020 19:20

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP02-20201208

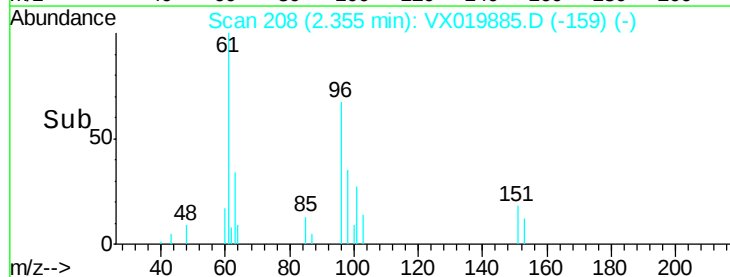
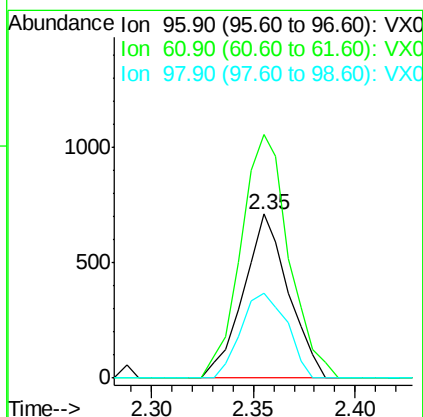
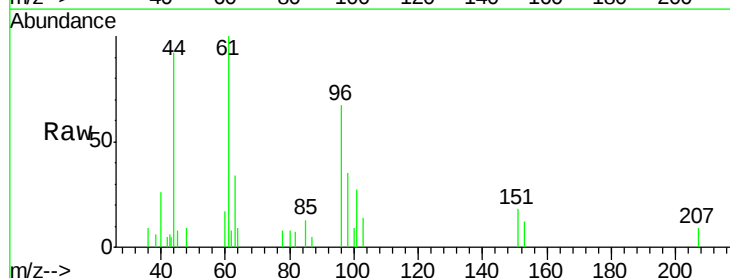
Tgt Ion: 59 Resp: 519
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

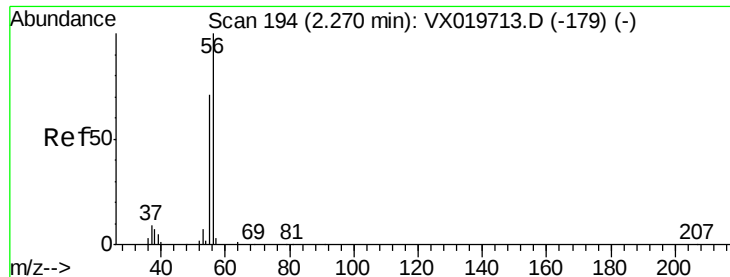


#12

1,1-Dichloroethene
 Concen: 0.377 ug/l
 RT: 2.35 min Scan# 208
 Delta R.T. -0.00 min
 Lab File: VX019885.D
 Acq: 11 Dec 2020 19:20

Tgt Ion: 96 Resp: 1093
 Ion Ratio Lower Upper
 96 100
 61 148.4 124.6 187.0
 98 52.0 50.6 76.0





#13

Acrolein

Concen: 0.233 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019885.D

Acq: 11 Dec 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

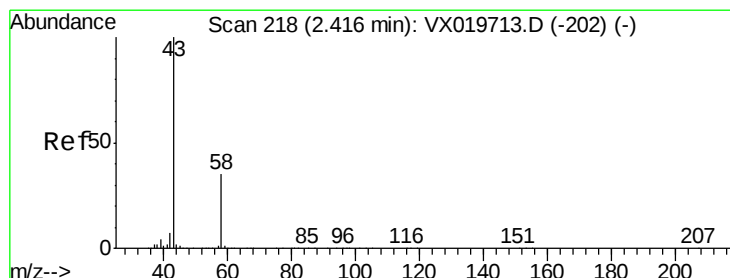
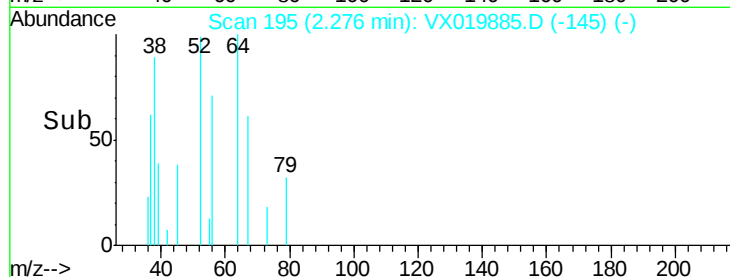
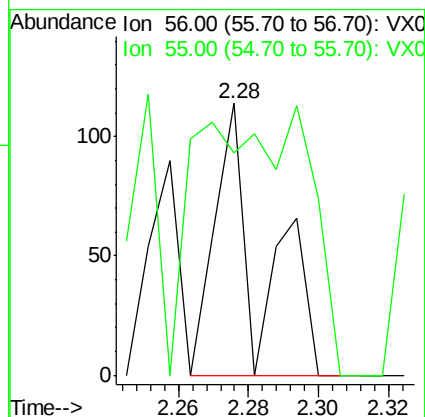
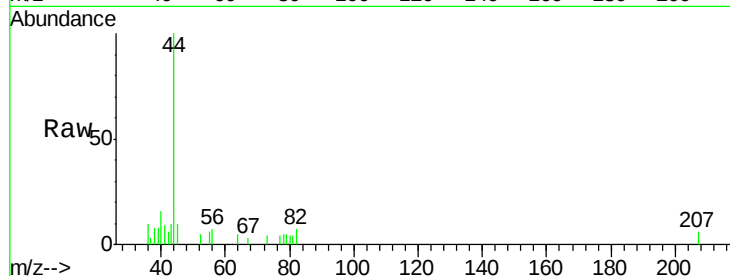
DUP02-20201208

Tgt Ion: 56 Resp: 107

Ion Ratio Lower Upper

56 100

55 229.9 56.4 84.6#



#16

Acetone

Concen: 0.935 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019885.D

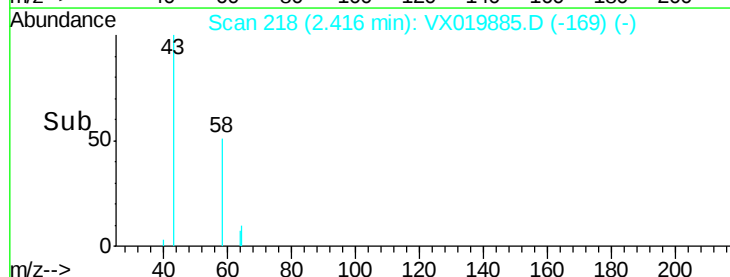
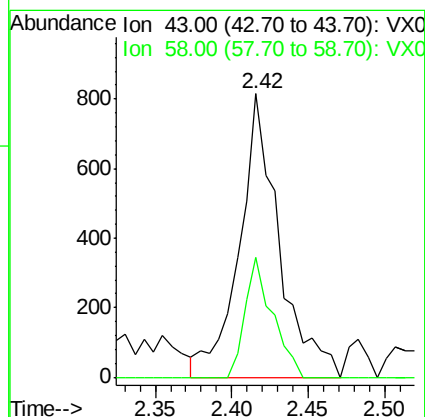
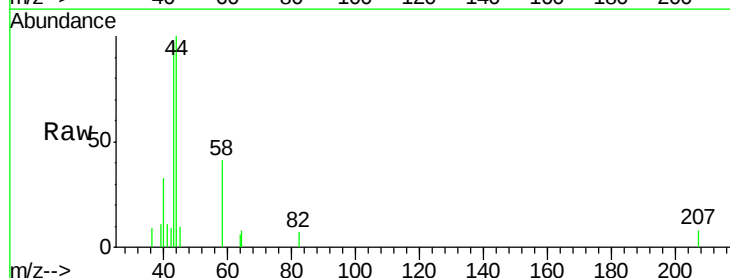
Acq: 11 Dec 2020 19:20

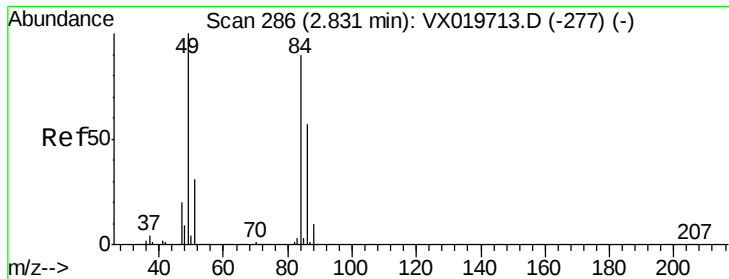
Tgt Ion: 43 Resp: 1463

Ion Ratio Lower Upper

43 100

58 42.3 27.8 41.8#

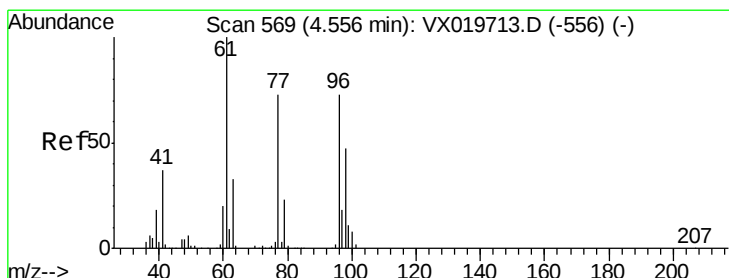
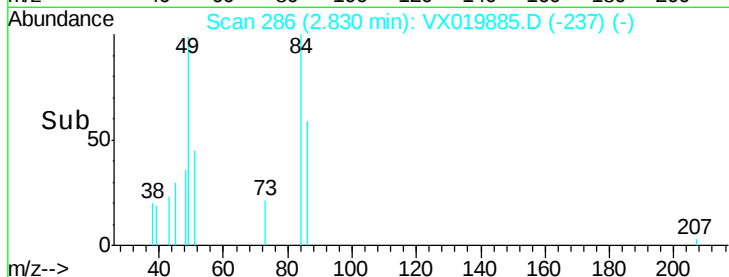
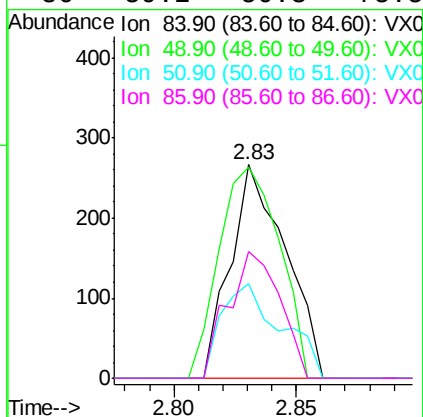
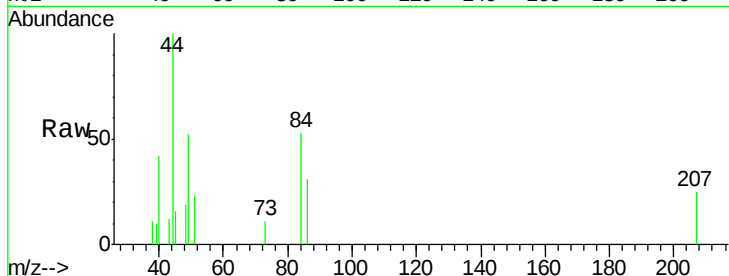




#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019885.D
Acq: 11 Dec 2020 19:20

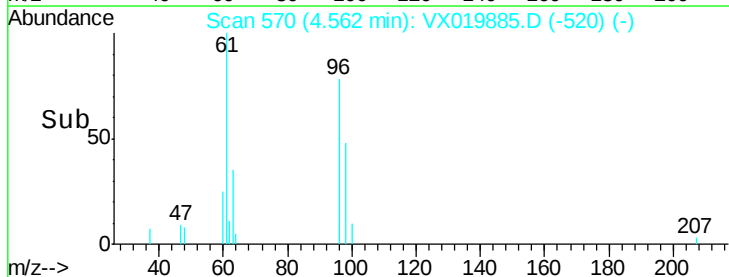
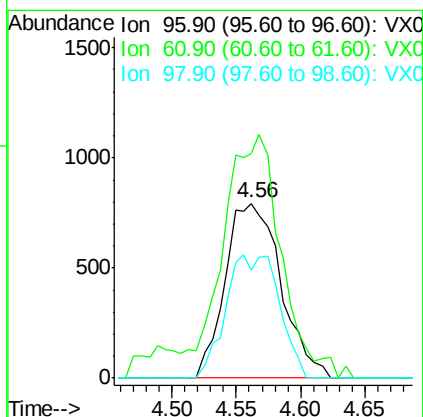
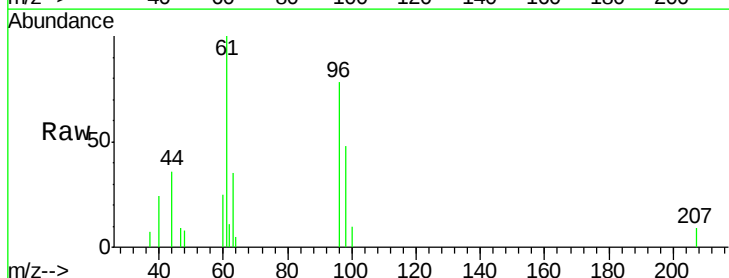
Instrument :
MSVOA_X
ClientSampleId :
DUP02-20201208

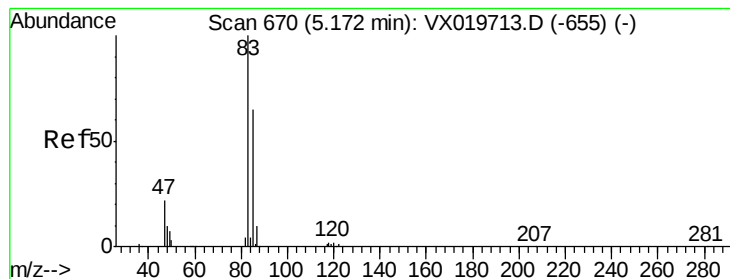
Tgt Ion:	84	Resp:	420
Ion	Ratio	Lower	Upper
84	100		
49	98.9	88.6	132.8
51	44.6	27.0	40.6#
86	59.2	50.3	75.5



#27
cis-1,2-Dichloroethene
Concen: 0.603 ug/l
RT: 4.56 min Scan# 570
Delta R.T. 0.01 min
Lab File: VX019885.D
Acq: 11 Dec 2020 19:20

Tgt Ion:	96	Resp:	2387
Ion	Ratio	Lower	Upper
96	100		
61	145.6	0.0	285.6
98	36.0	0.0	129.6





#30

Chloroform

Concen: 0.248 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.01 min

Lab File: VX019885.D

Acq: 11 Dec 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

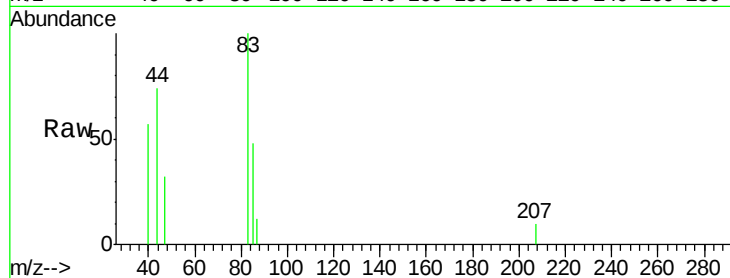
DUP02-20201208

Tgt Ion: 83 Resp: 1524

Ion Ratio Lower Upper

83 100

85 47.8 52.0 78.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

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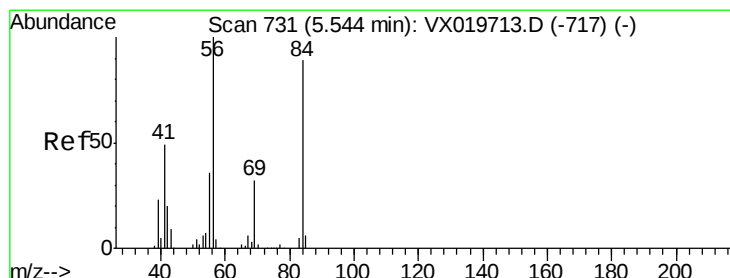
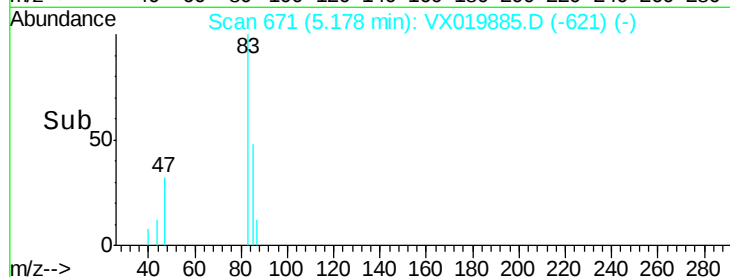
5.18

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Time-->



#31

Cyclohexane

Concen: 1.111 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019885.D

Acq: 11 Dec 2020 19:20

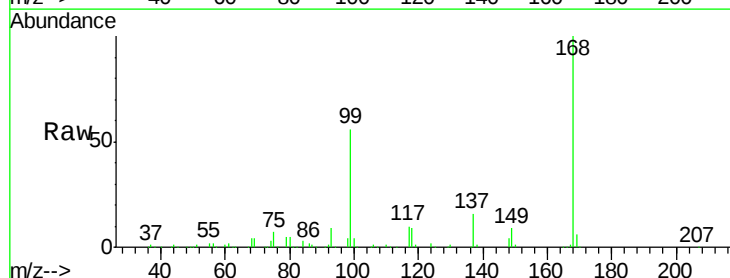
Tgt Ion: 56 Resp: 5757

Ion Ratio Lower Upper

56 100

69 230.5 25.3 37.9#

84 177.0 71.4 107.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

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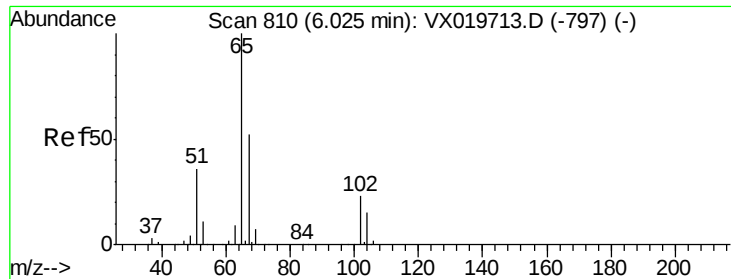
5.63

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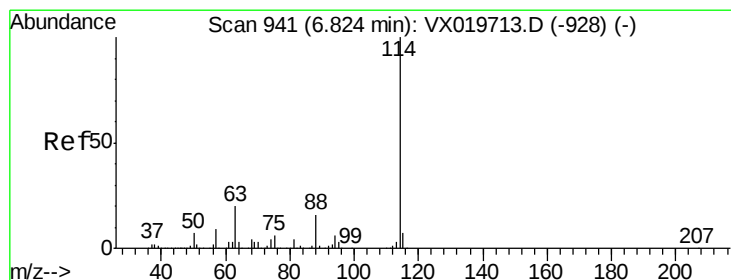
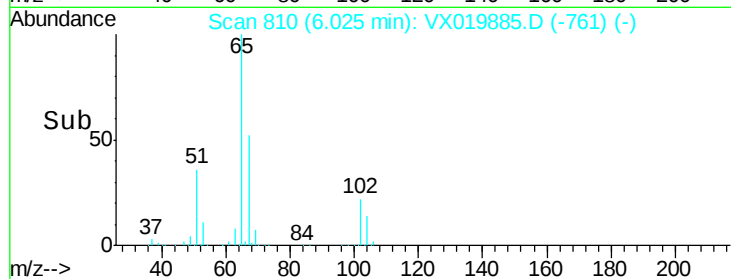
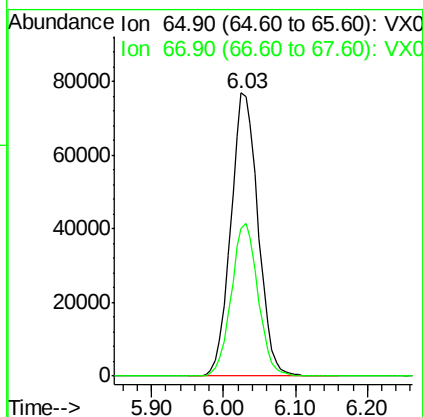
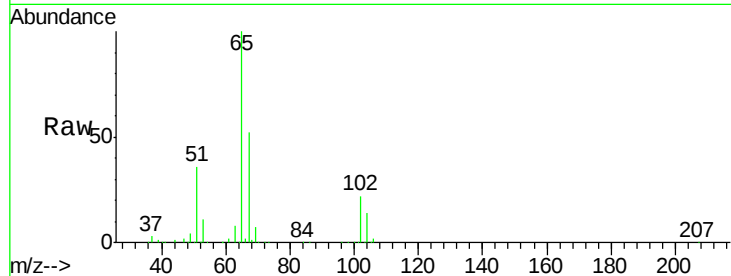
5.63</



#33
 1,2-Dichloroethane-d4
 Concen: 48.523 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VX019885.D
 Acq: 11 Dec 2020 19:20

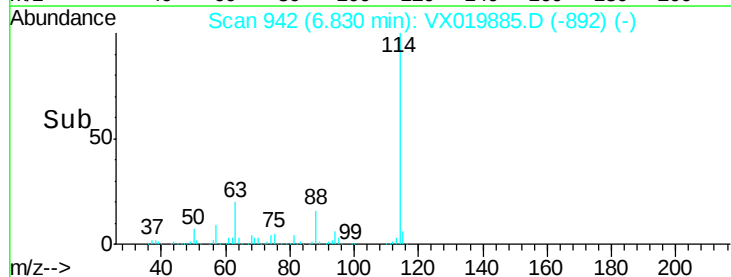
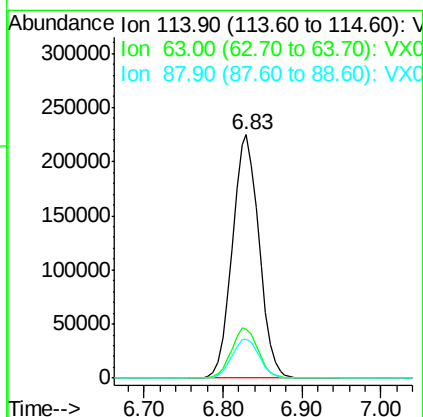
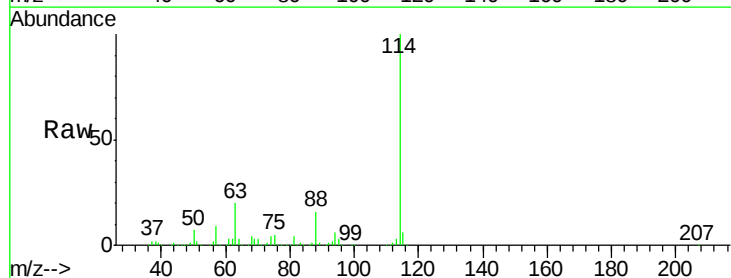
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP02-20201208

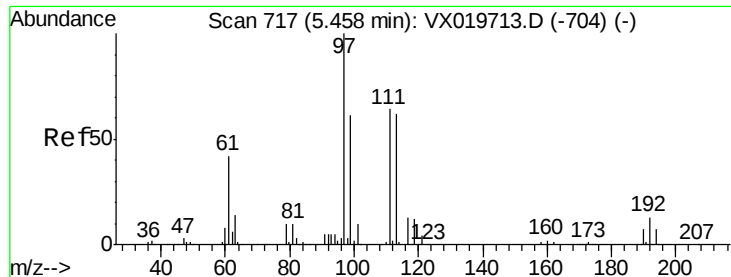
Tgt Ion: 65 Resp: 202049
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019885.D
 Acq: 11 Dec 2020 19:20

Tgt Ion: 114 Resp: 528088
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.8
 88 16.0 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.298 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019885.D

Acq: 11 Dec 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

DUP02-20201208

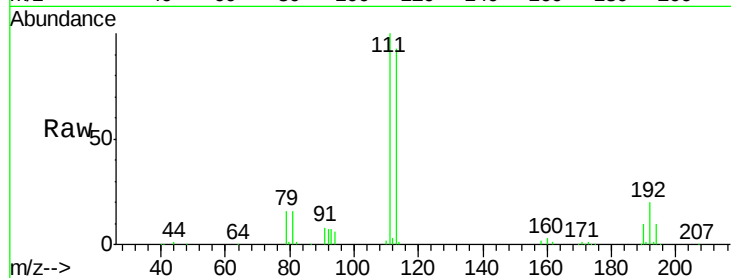
Tgt Ion:113 Resp: 161426

Ion Ratio Lower Upper

113 100

111 103.5 81.9 122.9

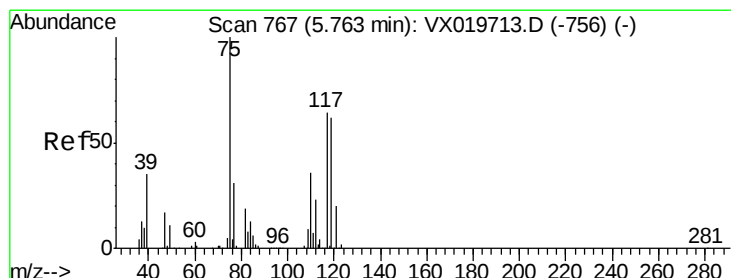
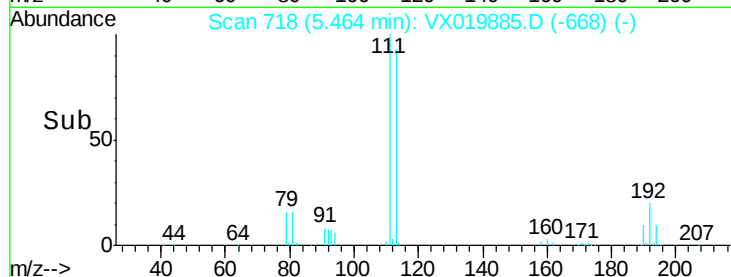
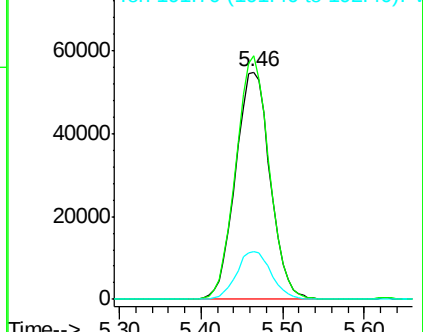
192 21.1 16.7 25.1



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: 5.020 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019885.D

Acq: 11 Dec 2020 19:20

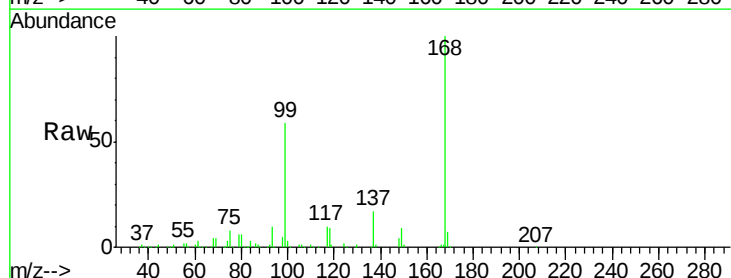
Tgt Ion: 75 Resp: 23954

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.4#

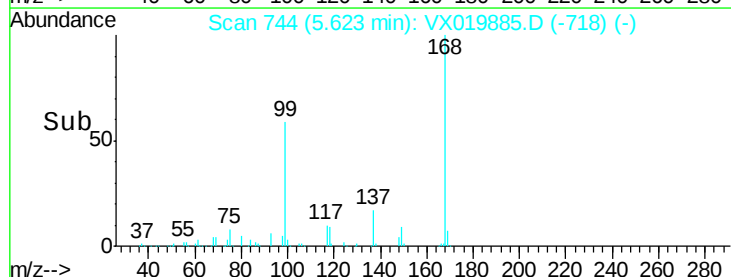
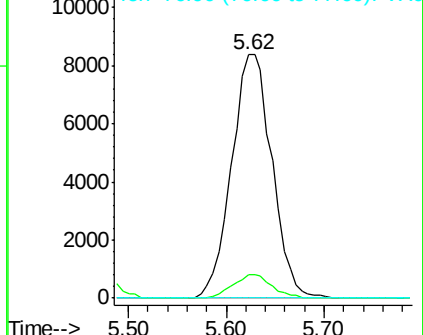
77 0.0 25.3 37.9#

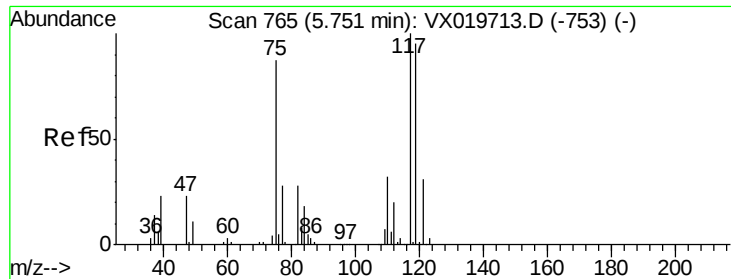


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

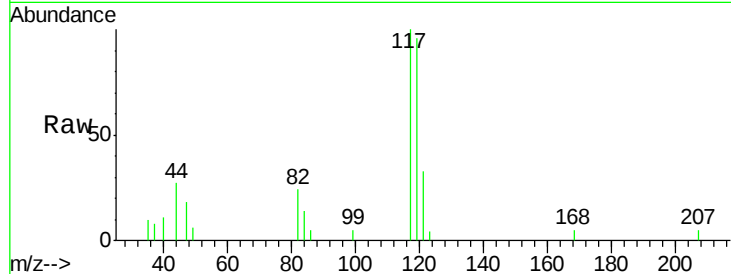




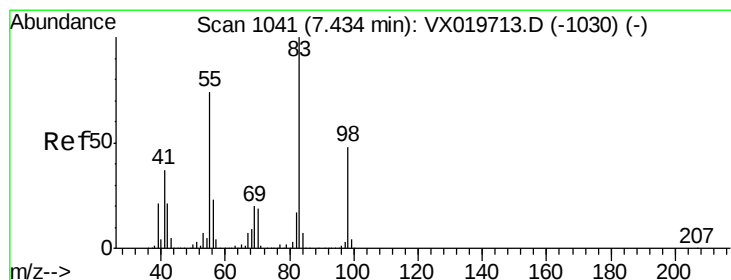
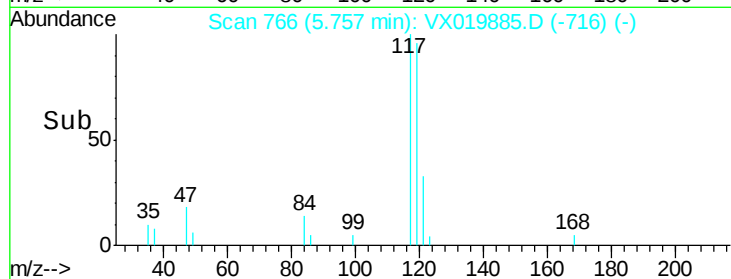
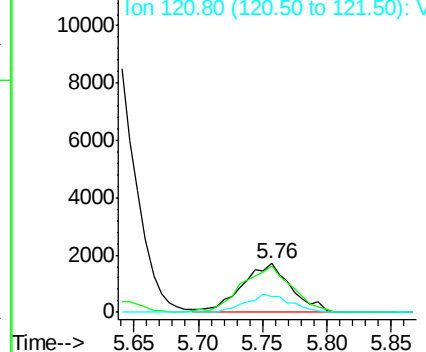
#38
Carbon Tetrachloride
Concen: 0.970 ug/l
RT: 5.76 min Scan# 766
Delta R.T. 0.01 min
Lab File: VX019885.D
Acq: 11 Dec 2020 19:20

Instrument :
MSVOA_X
ClientSampleId :
DUP02-20201208

Tgt Ion:117 Resp: 4533
Ion Ratio Lower Upper
117 100
119 95.6 76.2 114.2
121 32.8 24.8 37.2

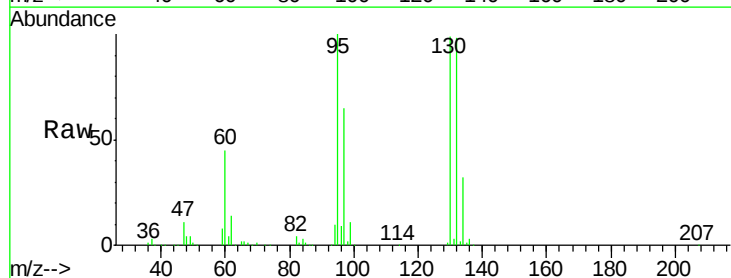


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

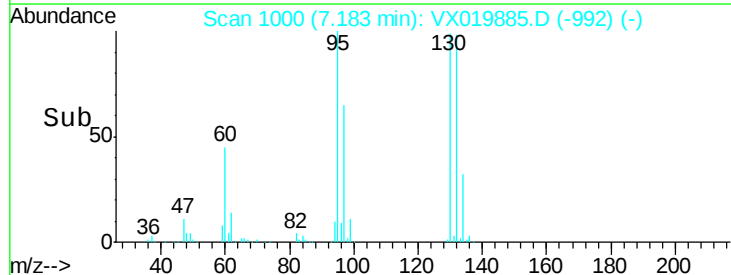
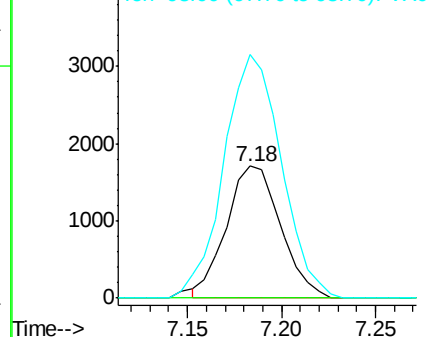


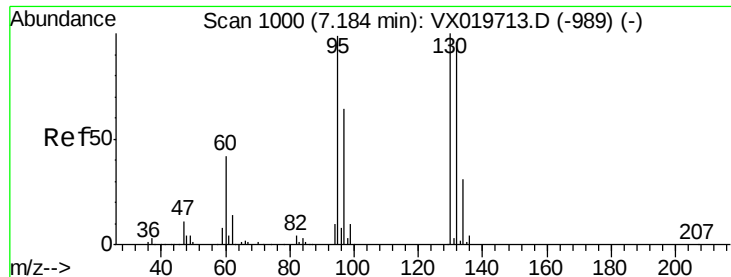
#39
Methylcyclohexane
Concen: 0.609 ug/l
RT: 7.18 min Scan# 1000
Delta R.T. -0.25 min
Lab File: VX019885.D
Acq: 11 Dec 2020 19:20

Tgt Ion: 83 Resp: 3412
Ion Ratio Lower Upper
83 100
55 0.0 58.9 88.3#
98 184.7 38.1 57.1#



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 71.843 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019885.D

Acq: 11 Dec 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

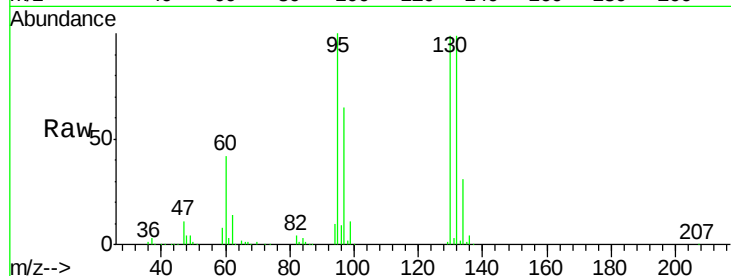
DUP02-20201208

Tgt Ion:130 Resp: 274775

Ion Ratio Lower Upper

130 100

95 101.5 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

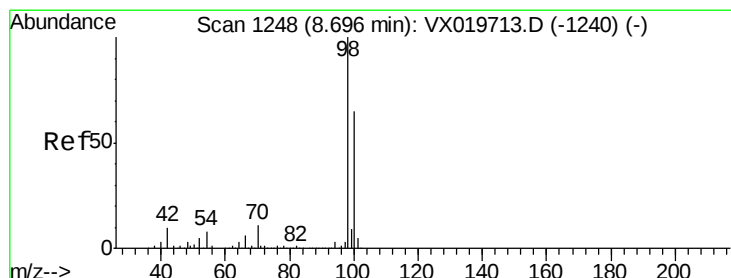
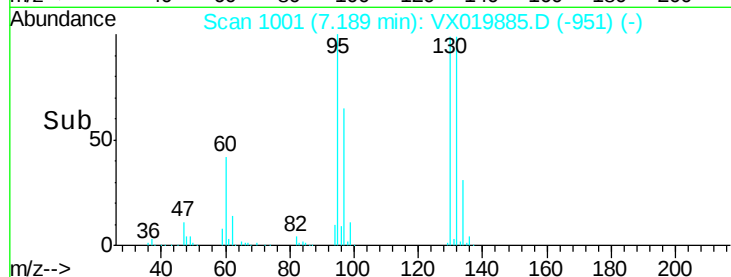
150000

100000

50000

0

Time-->



#50

Toluene-d8

Concen: 49.190 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019885.D

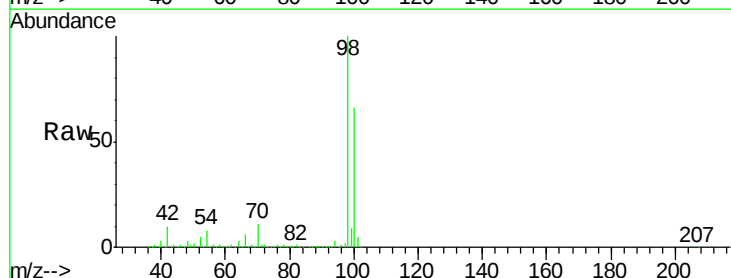
Acq: 11 Dec 2020 19:20

Tgt Ion: 98 Resp: 640938

Ion Ratio Lower Upper

98 100

100 66.4 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.70

500000

400000

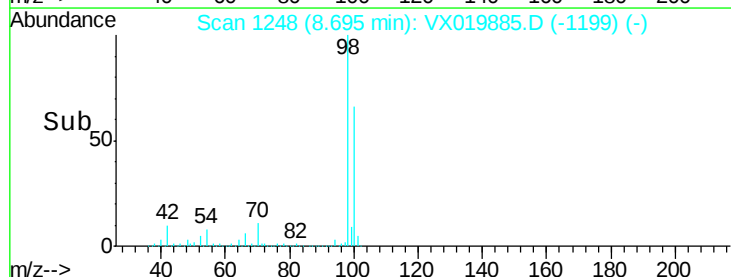
300000

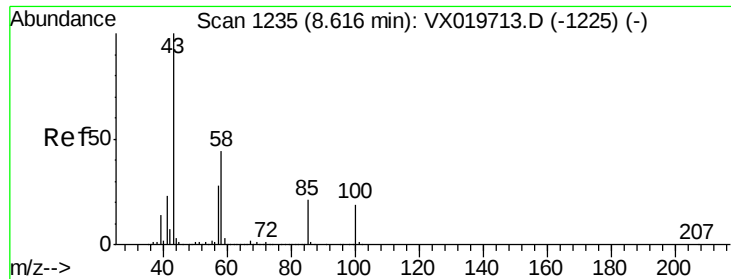
200000

100000

0

Time-->

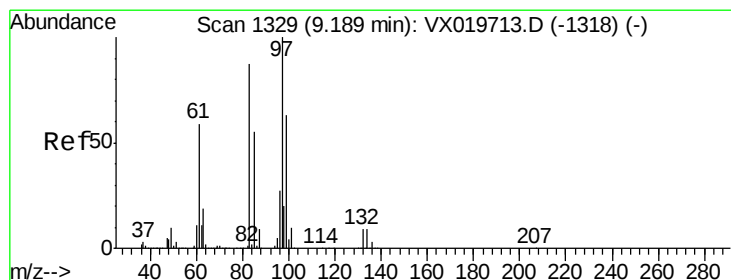
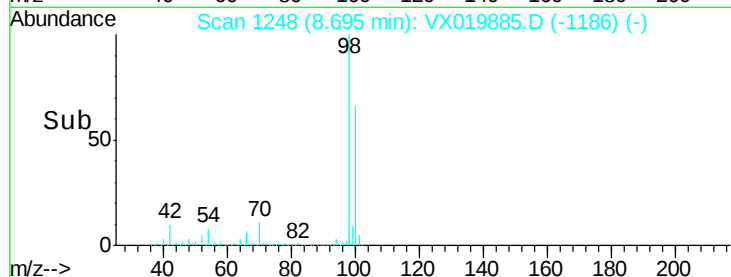
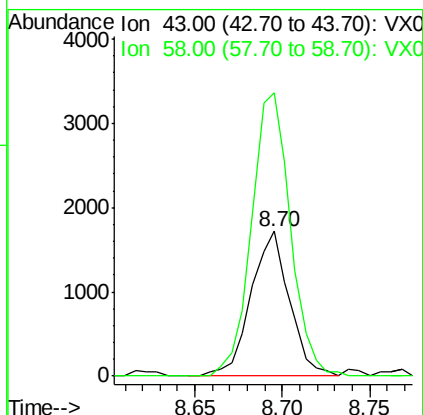
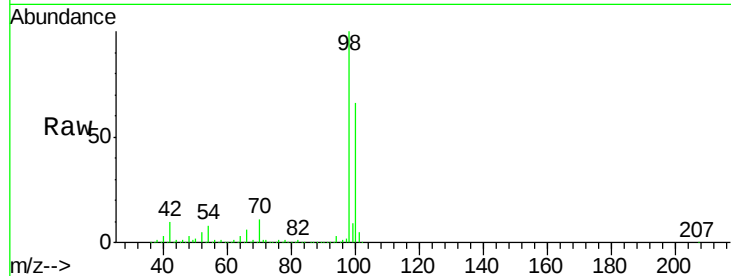




#51
 4-Methyl-2-Pentanone
 Concen: 0.557 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. 0.08 min
 Lab File: VX019885.D
 Acq: 11 Dec 2020 19:20

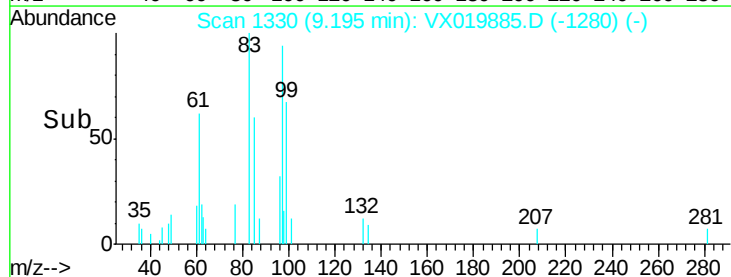
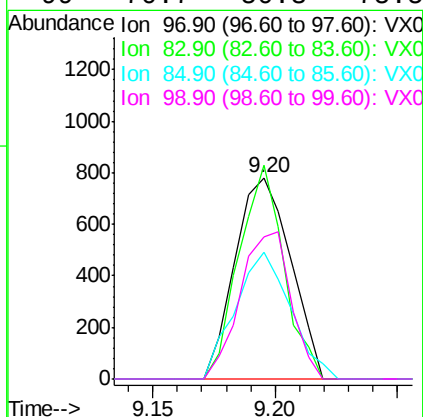
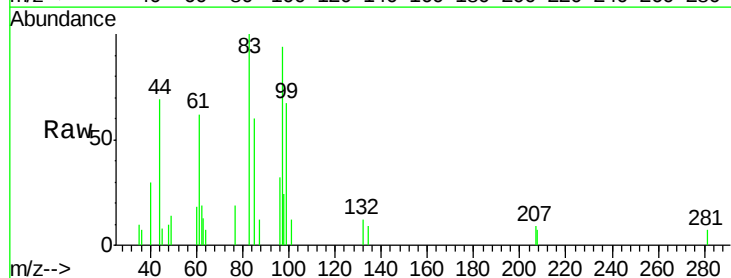
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP02-20201208

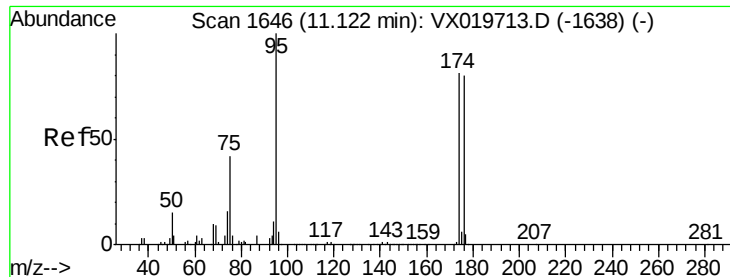
Tgt Ion: 43 Resp: 2662
 Ion Ratio Lower Upper
 43 100
 58 196.1 35.4 53.0#



#55
 1,1,2-Trichloroethane
 Concen: 0.336 ug/l
 RT: 9.20 min Scan# 1330
 Delta R.T. 0.01 min
 Lab File: VX019885.D
 Acq: 11 Dec 2020 19:20

Tgt Ion: 97 Resp: 1233
 Ion Ratio Lower Upper
 97 100
 83 106.0 69.3 103.9#
 85 63.2 44.3 66.5
 99 70.7 50.3 75.5





#62

4-Bromofluorobenzene

Concen: 47.293 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019885.D

Acq: 11 Dec 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

DUP02-20201208

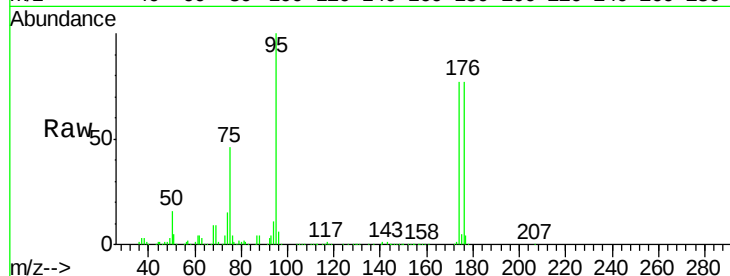
Tgt Ion: 95 Resp: 234541

Ion Ratio Lower Upper

95 100

174 76.7 0.0 154.6

176 74.9 0.0 155.8



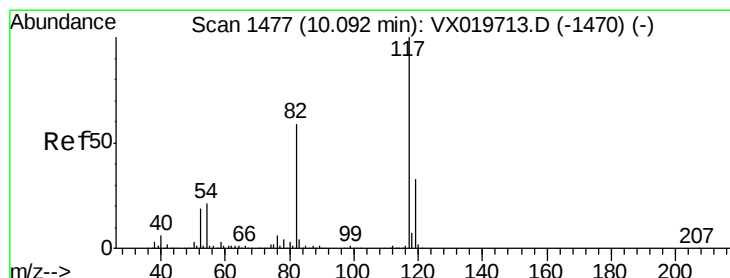
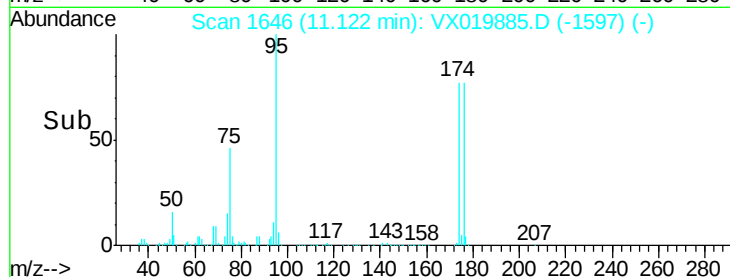
Abundance Ion 94.90 (94.60 to 95.60): VX019713.D (-1638) (-)

Ion 173.80 (173.50 to 174.50): VX019713.D (-1638) (-)

Ion 175.80 (175.50 to 176.50): VX019713.D (-1638) (-)

11.12

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019885.D

Acq: 11 Dec 2020 19:20

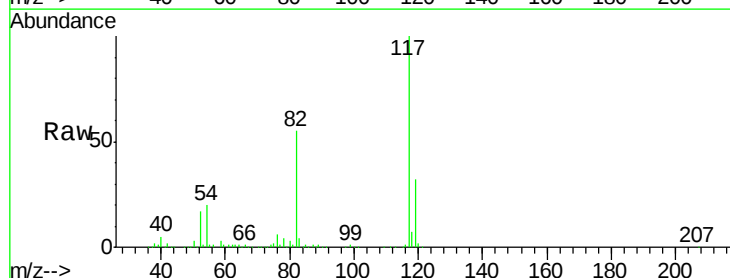
Tgt Ion: 117 Resp: 494822

Ion Ratio Lower Upper

117 100

82 55.4 47.4 71.2

119 32.1 26.6 39.8



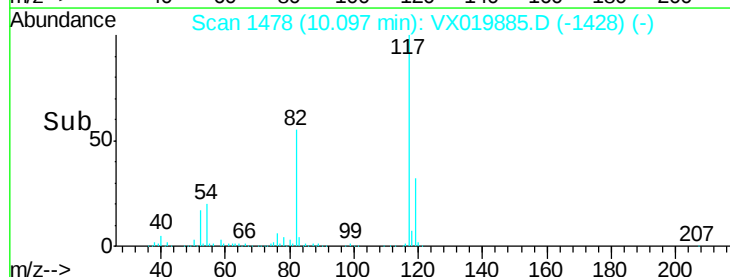
Abundance Ion 116.90 (116.60 to 117.60): VX019713.D (-1470) (-)

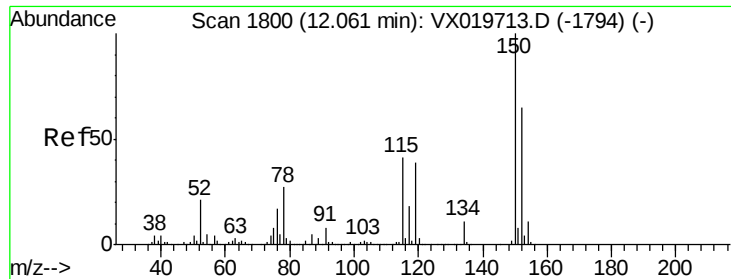
Ion 82.00 (81.70 to 82.70): VX019713.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019713.D (-1470) (-)

10.10

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019885.D

Acq: 11 Dec 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

DUP02-20201208

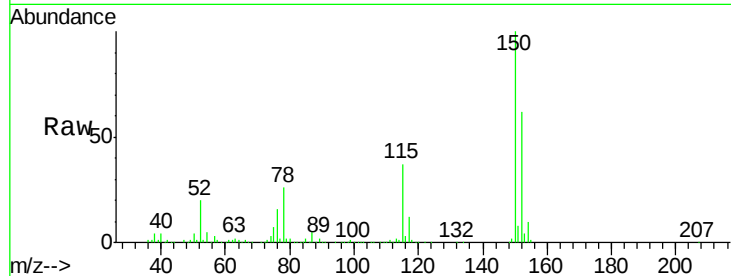
Tgt Ion:152 Resp: 216904

Ion Ratio Lower Upper

152 100

115 59.6 41.1 123.3

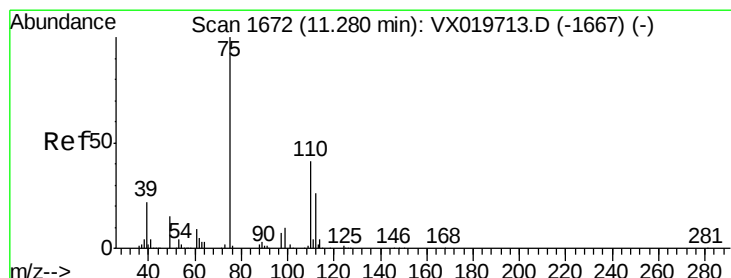
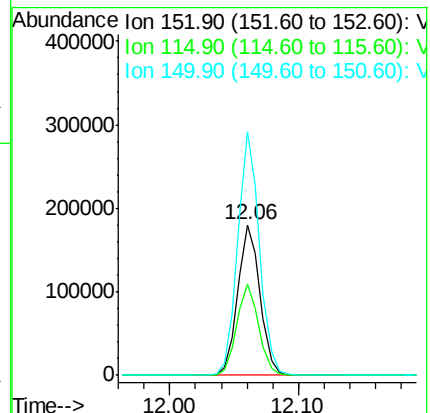
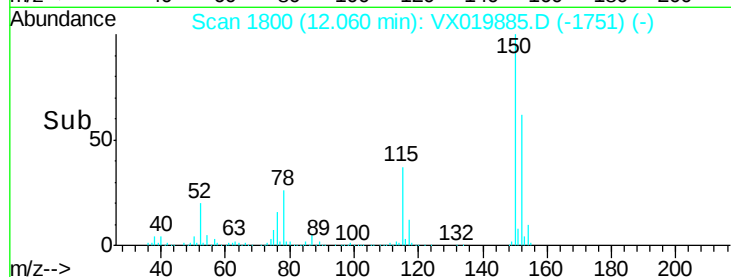
150 158.2 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.006 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019885.D

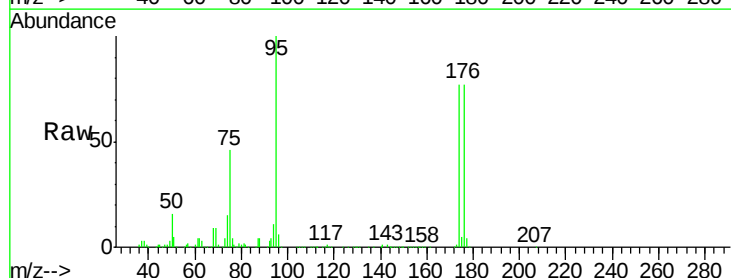
Acq: 11 Dec 2020 19:20

Tgt Ion: 75 Resp: 111918

Ion Ratio Lower Upper

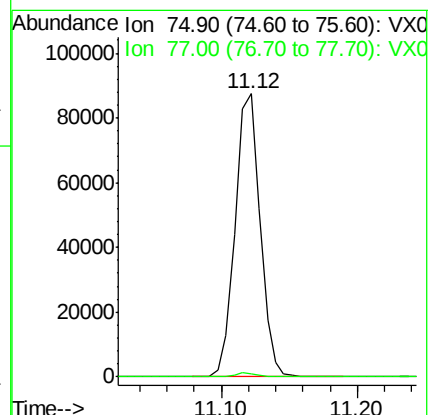
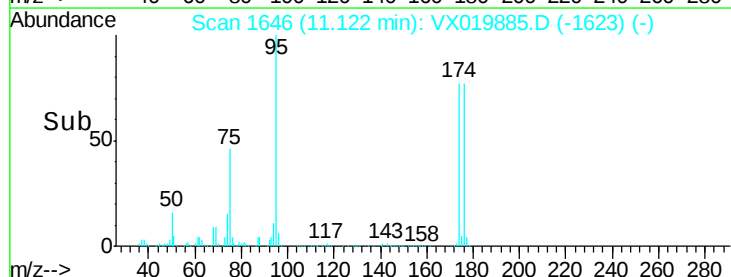
75 100

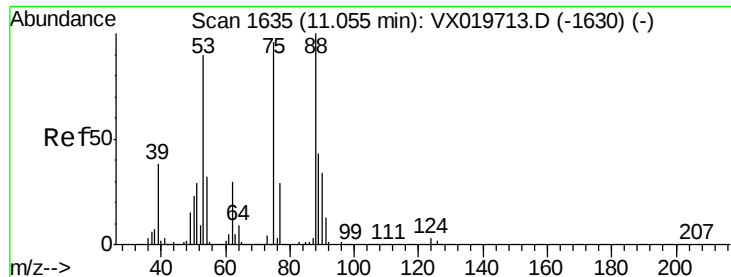
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 66.505 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019885.D

Acq: 11 Dec 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

DUP02-20201208

Tgt Ion: 75 Resp: 111918

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

