

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121120\
 Data File : VX019886.D
 Acq On : 11 Dec 2020 19:43
 Operator : JC/MD
 Sample : L4996-27
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20201207

Quant Time: Dec 12 00:05:59 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	320709	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	532701	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	497417	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	220560	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	204446	48.50	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.00%	
35) Dibromofluoromethane		5.46	113	162396	47.17	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.34%	
50) Toluene-d8		8.70	98	644139	49.01	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.02%	
62) 4-Bromofluorobenzene		11.12	95	233067	46.59	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	93.18%	

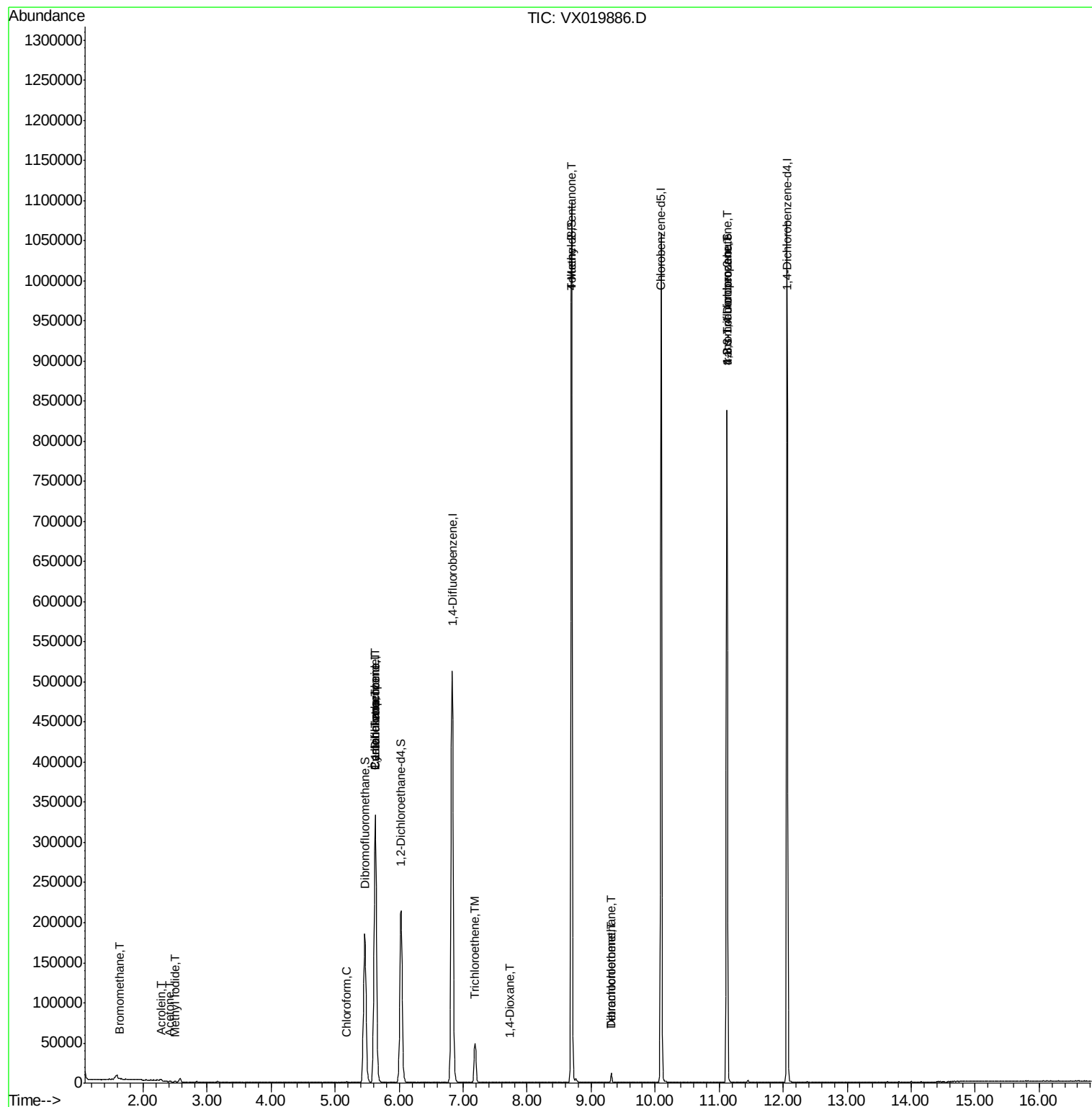
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	642	0.531	ug/l	88
10) Methyl Iodide	2.50	142	981	0.229	ug/l #	93
11) Tert butyl alcohol	2.99	59	481	Below Cal	#	73
13) Acrolein	2.28	56	169	0.363	ug/l #	36
16) Acetone	2.42	43	1435	0.906	ug/l	90
20) Methylene Chloride	2.84	84	392	Below Cal	#	80
30) Chloroform	5.18	83	1473	0.237	ug/l	99
31) Cyclohexane	5.62	56	5964	1.137	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23907	4.966	ug/l #	49
38) Carbon Tetrachloride	5.63	117	30872	6.549	ug/l #	16
44) Trichloroethene	7.19	130	19656	5.095	ug/l	95
49) 1,4-Dioxane	7.73	88	92	0.977	ug/l #	67
51) 4-Methyl-2-Pentanone	8.69	43	2736	0.567	ug/l #	1
60) Dibromochloromethane	9.32	129	2207	0.586	ug/l #	11
64) Tetrachloroethene	9.32	164	2199	0.659	ug/l	91
76) 1,2,3-Trichloropropane	11.12	75	112322	22.706	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	112322	65.639	ug/l #	12

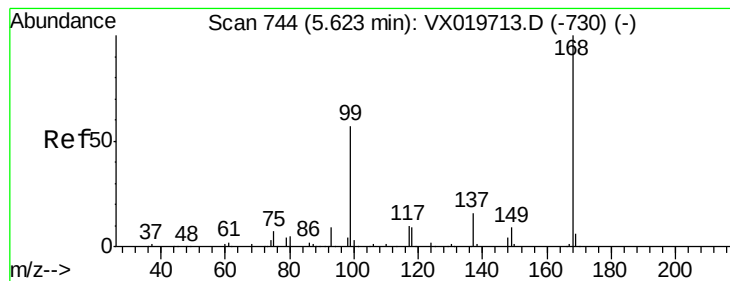
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019886.D

Acq: 11 Dec 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

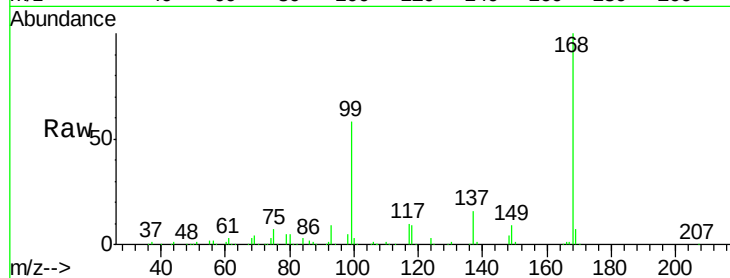
DUP01-20201207

Tgt Ion: 168 Resp: 320709

Ion Ratio Lower Upper

168 100

99 57.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

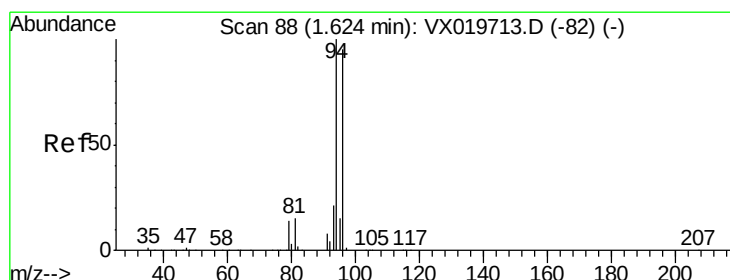
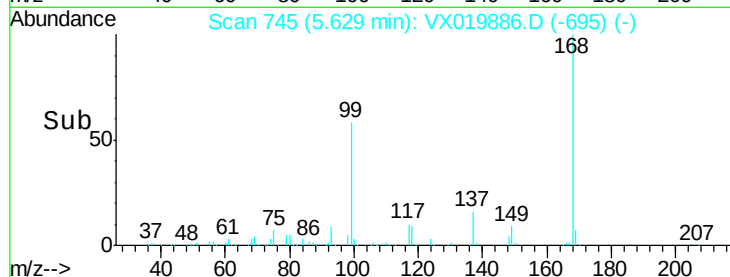
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.531 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019886.D

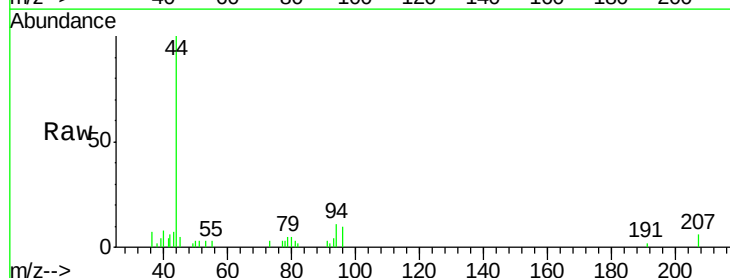
Acq: 11 Dec 2020 19:43

Tgt Ion: 94 Resp: 642

Ion Ratio Lower Upper

94 100

96 84.0 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

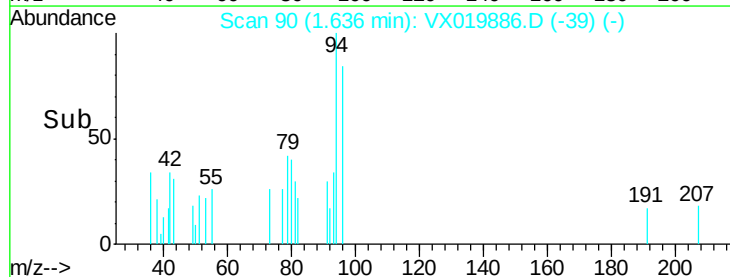
200

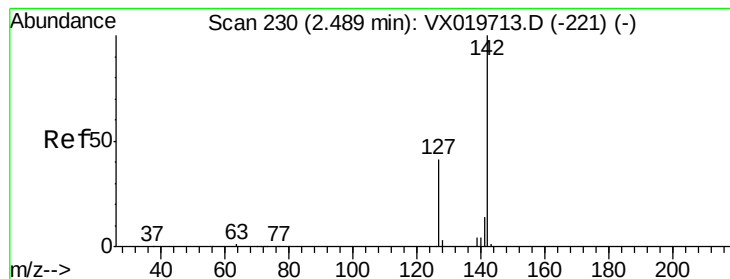
100

0

Time-->

1.60 1.65 1.70





#10

Methyl Iodide

Concen: 0.229 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX019886.D

Acq: 11 Dec 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20201207

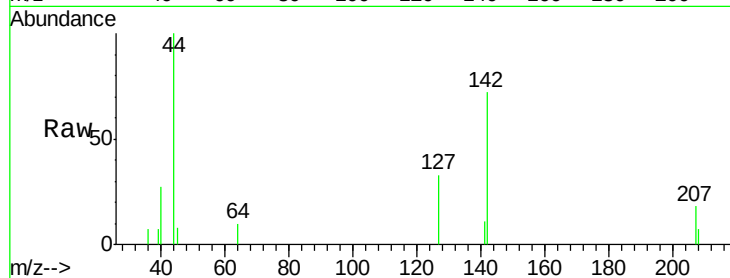
Tgt Ion: 142 Resp: 981

Ion Ratio Lower Upper

142 100

127 41.7 33.3 49.9

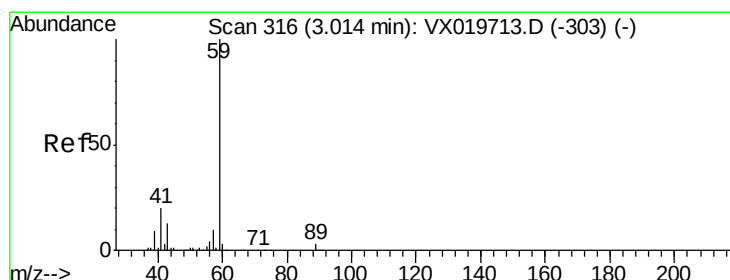
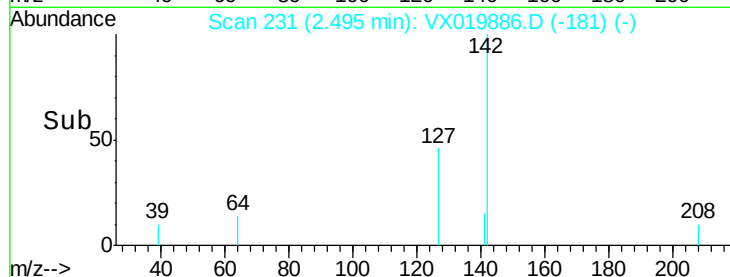
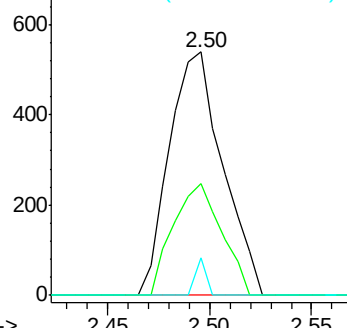
141 3.1 11.4 17.0#



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



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX019886.D

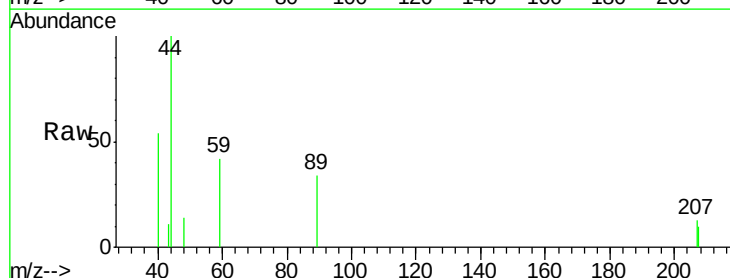
Acq: 11 Dec 2020 19:43

Tgt Ion: 59 Resp: 481

Ion Ratio Lower Upper

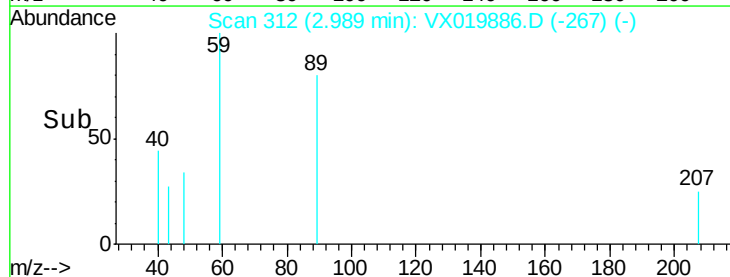
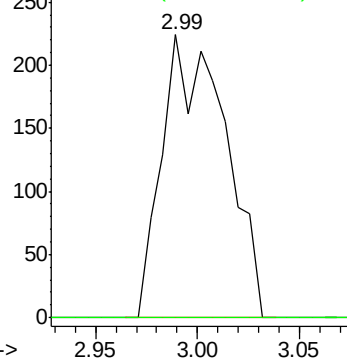
59 100

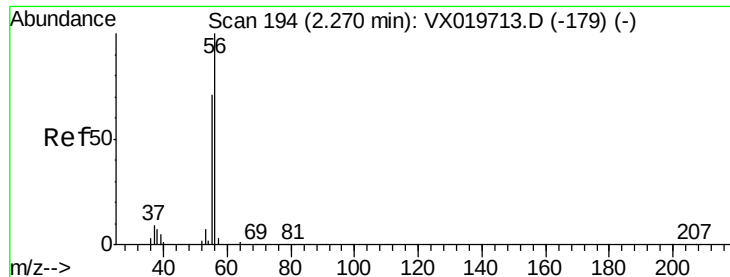
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.363 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019886.D

Acq: 11 Dec 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

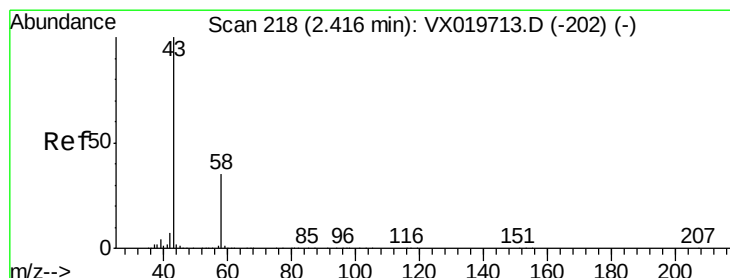
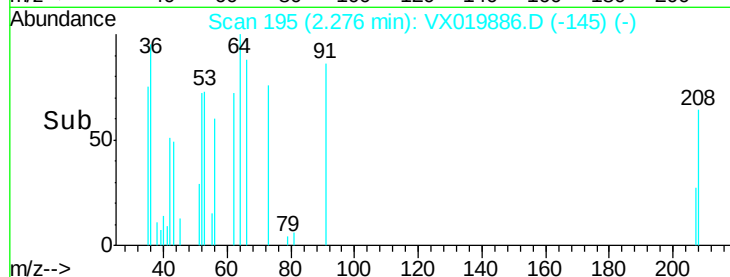
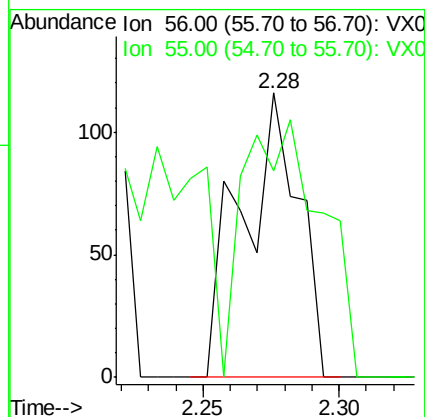
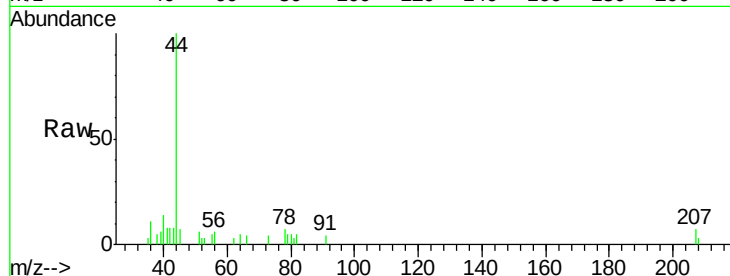
DUP01-20201207

Tgt Ion: 56 Resp: 169

Ion Ratio Lower Upper

56 100

55 123.1 56.4 84.6#



#16

Acetone

Concen: 0.906 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019886.D

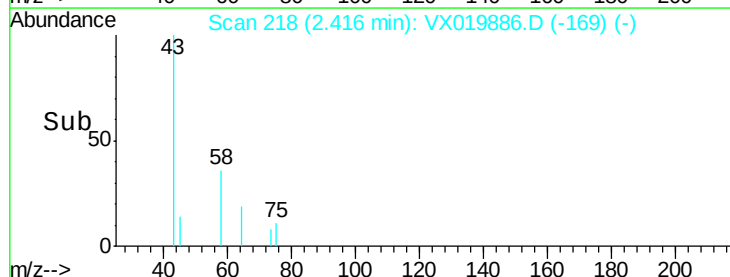
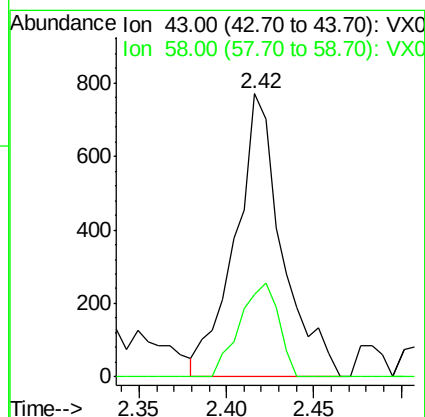
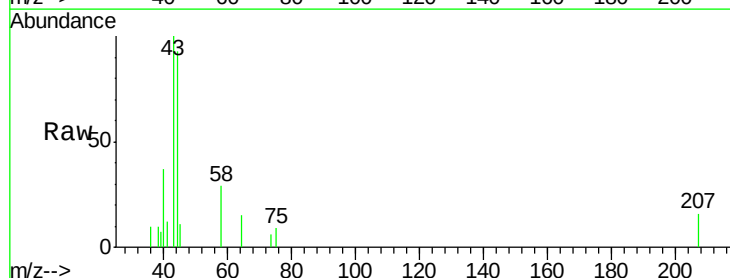
Acq: 11 Dec 2020 19:43

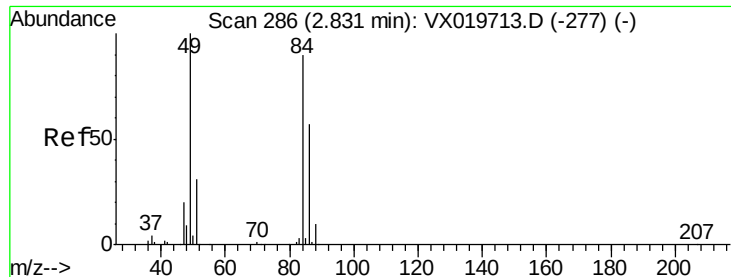
Tgt Ion: 43 Resp: 1435

Ion Ratio Lower Upper

43 100

58 29.0 27.8 41.8

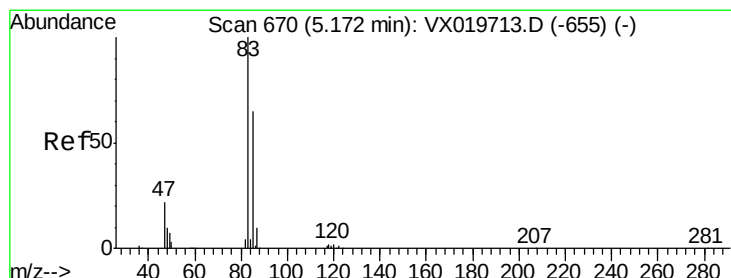
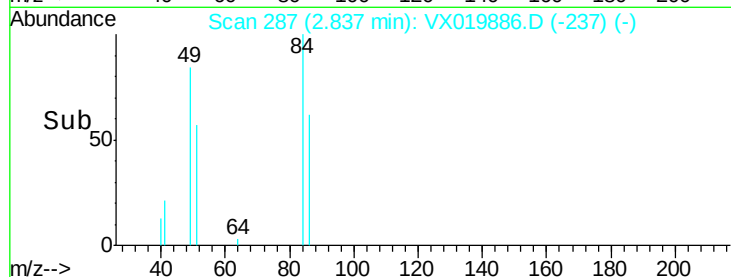
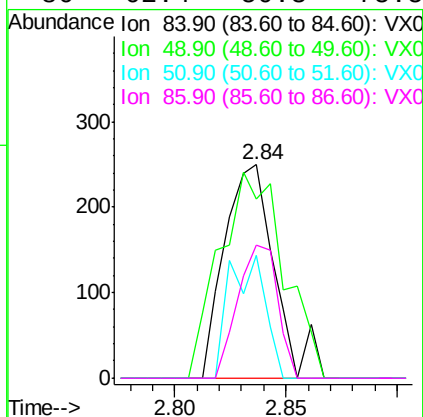
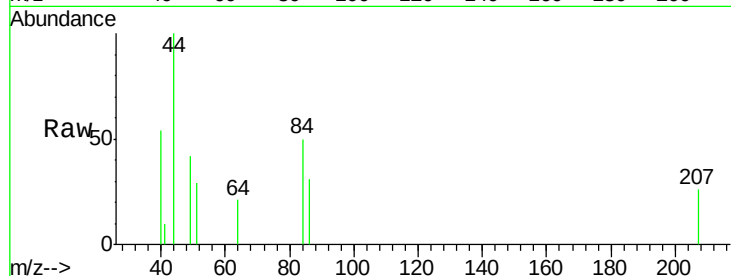




#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019886.D
Acq: 11 Dec 2020 19:43

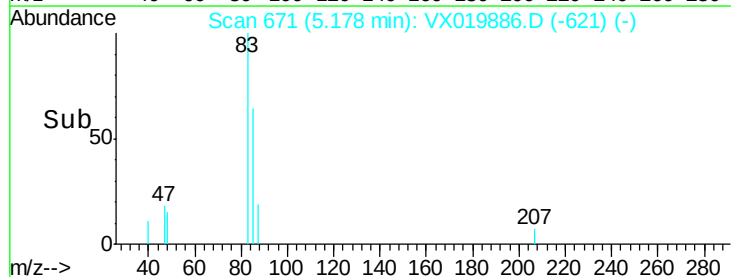
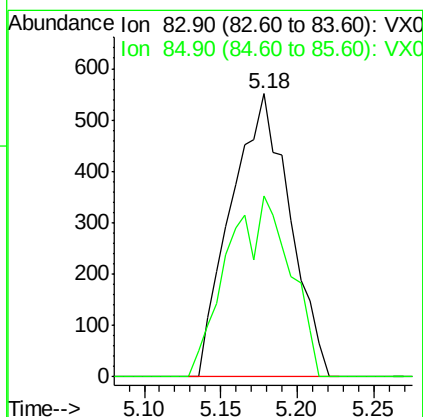
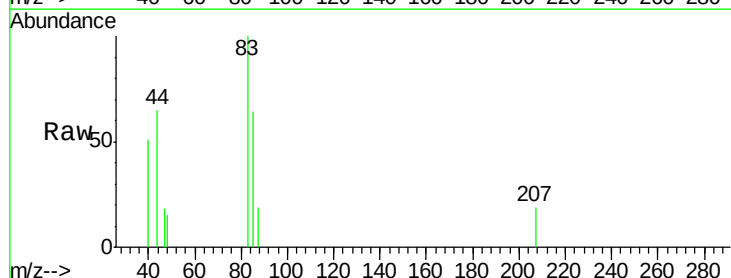
Instrument :
MSVOA_X
ClientSampleId :
DUP01-20201207

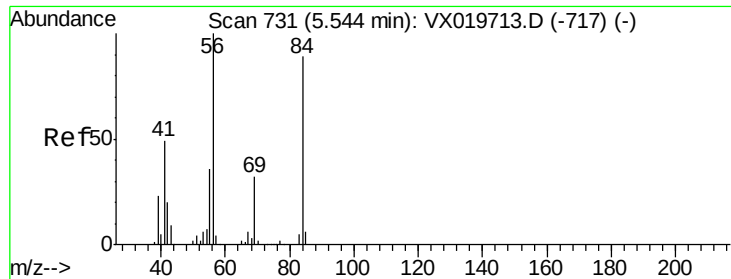
Tgt Ion:	84	Resp:	392
Ion	Ratio	Lower	Upper
84	100		
49	84.0	88.6	132.8#
51	57.2	27.0	40.6#
86	62.4	50.3	75.5



#30
Chloroform
Concen: 0.237 ug/l
RT: 5.18 min Scan# 671
Delta R.T. 0.01 min
Lab File: VX019886.D
Acq: 11 Dec 2020 19:43

Tgt Ion:	83	Resp:	1473
Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.0	78.0

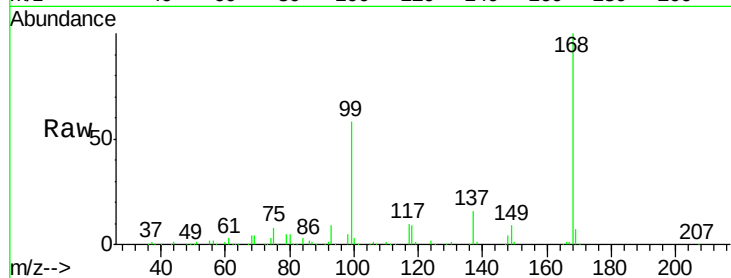




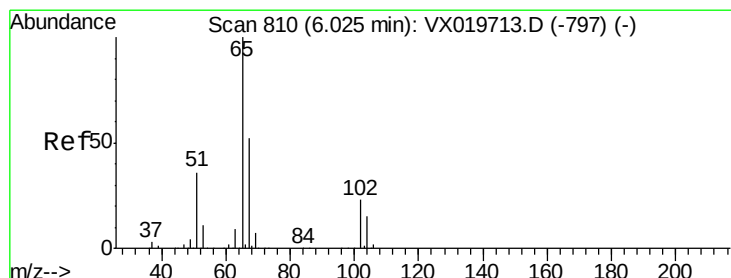
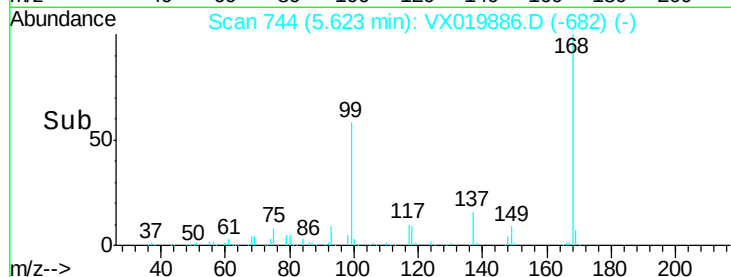
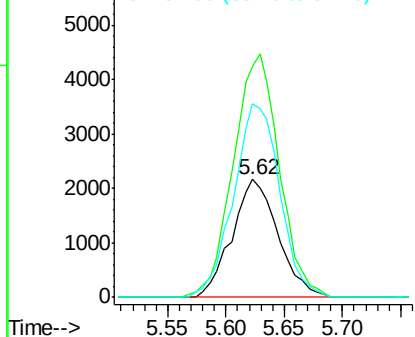
#31
Cyclohexane
Concen: 1.137 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019886.D
Acq: 11 Dec 2020 19:43

Instrument :
MSVOA_X
ClientSampleId :
DUP01-20201207

Tgt Ion: 56 Resp: 5964
Ion Ratio Lower Upper
56 100
69 195.8 25.3 37.9#
84 164.0 71.4 107.0#

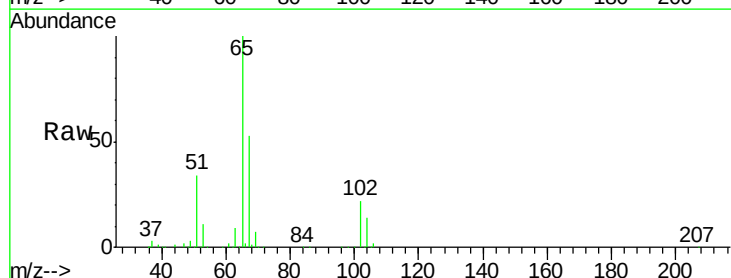


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

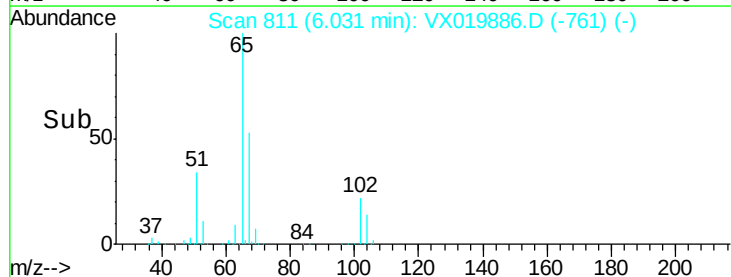
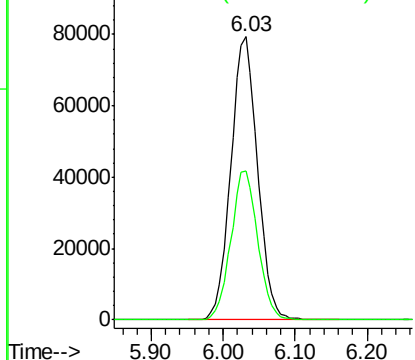


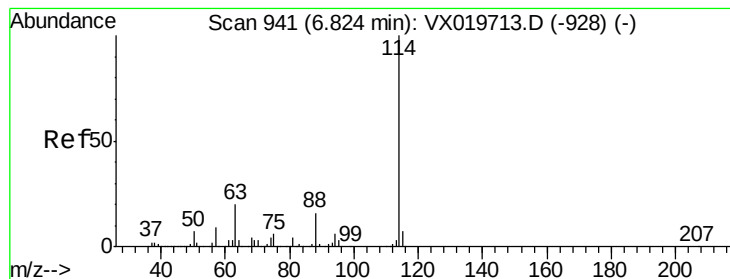
#33
1,2-Dichloroethane-d4
Concen: 48.504 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.01 min
Lab File: VX019886.D
Acq: 11 Dec 2020 19:43

Tgt Ion: 65 Resp: 204446
Ion Ratio Lower Upper
65 100
67 53.3 0.0 105.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019886.D

Acq: 11 Dec 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20201207

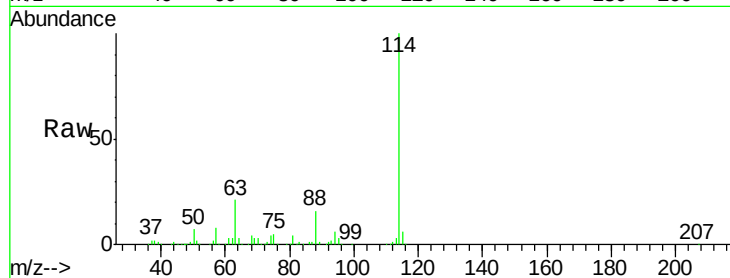
Tgt Ion:114 Resp: 532701

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

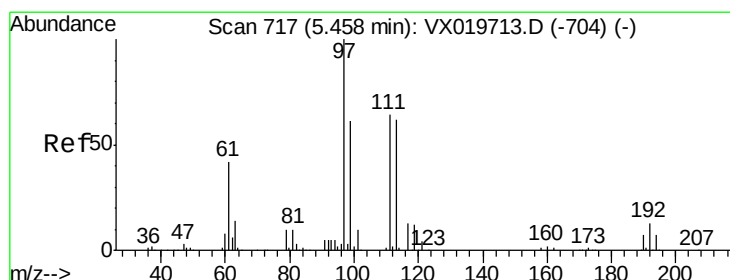
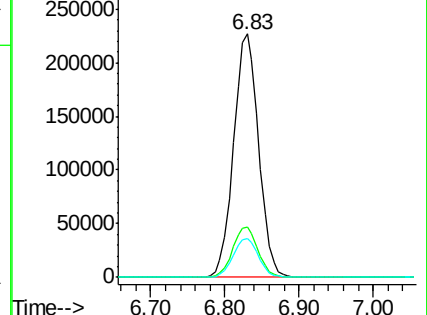
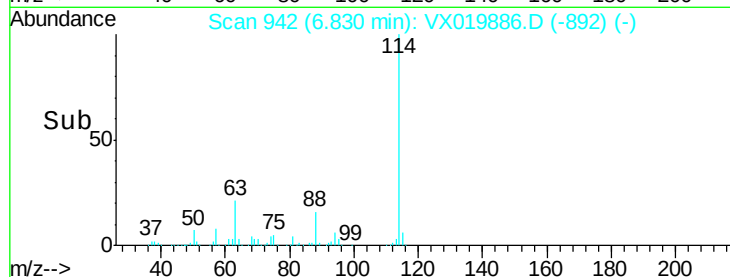
88 16.0 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.170 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.00 min

Lab File: VX019886.D

Acq: 11 Dec 2020 19:43

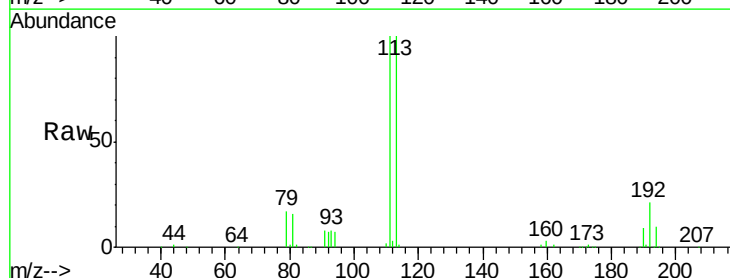
Tgt Ion:113 Resp: 162396

Ion Ratio Lower Upper

113 100

111 103.0 81.9 122.9

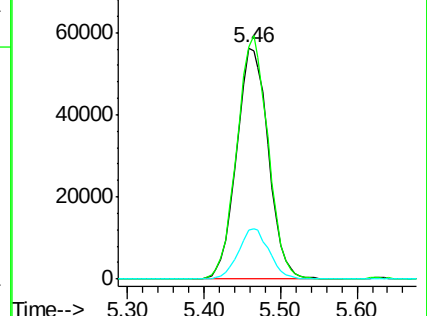
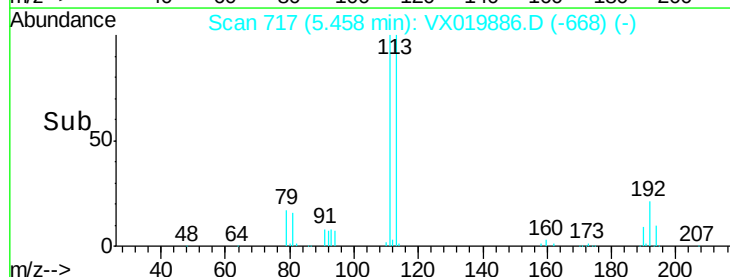
192 21.0 16.7 25.1

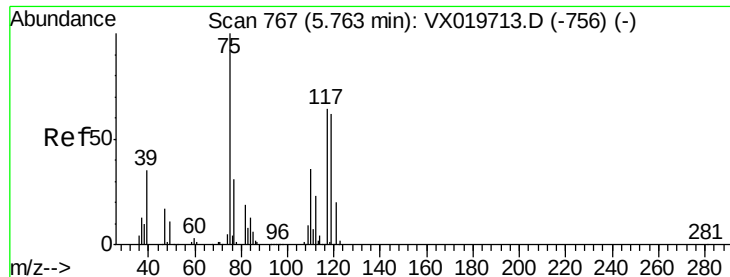


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

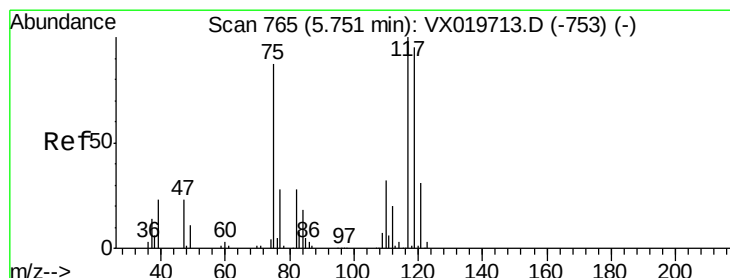
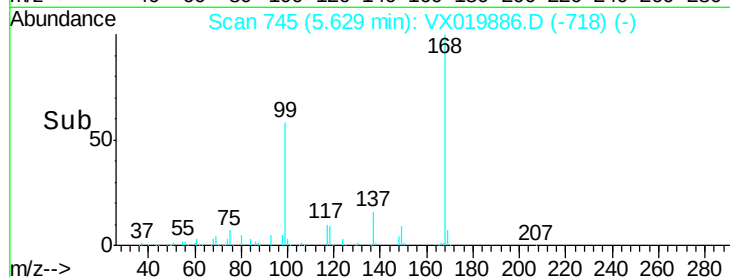
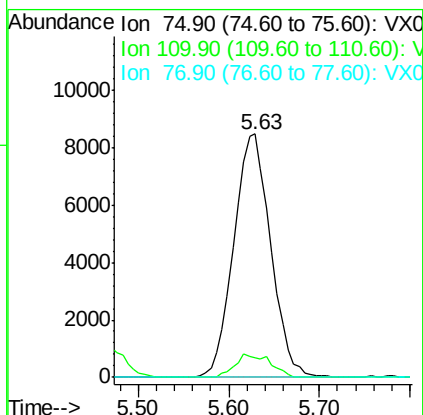
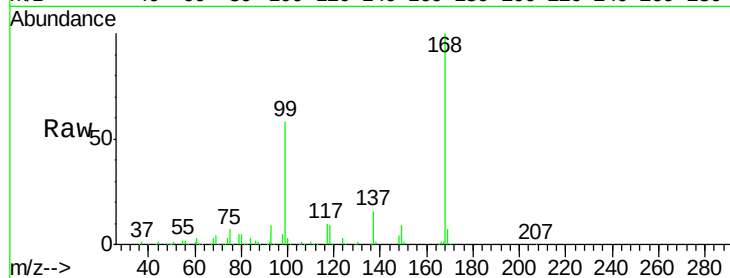




#36
 1,1-Dichloropropene
 Concen: 4.966 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019886.D
 Acq: 11 Dec 2020 19:43

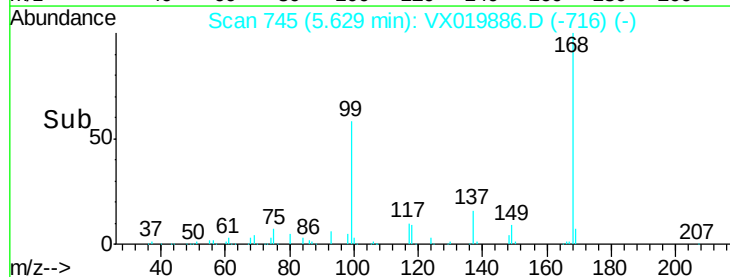
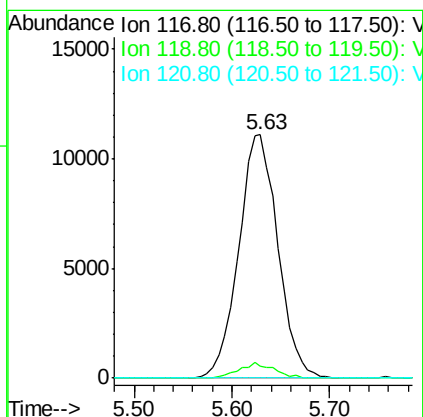
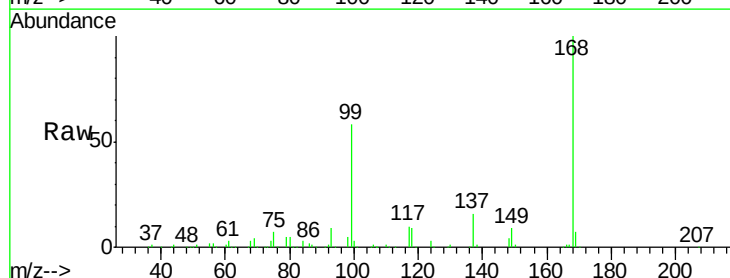
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20201207

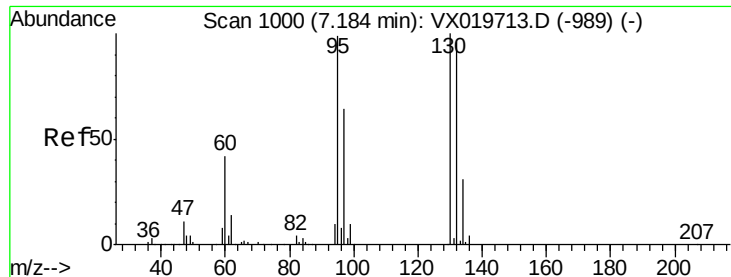
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.4#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 6.549 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX019886.D
 Acq: 11 Dec 2020 19:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.2	114.2#
121	0.0	24.8	37.2#





#44

Trichloroethene

Concen: 5.095 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019886.D

Acq: 11 Dec 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

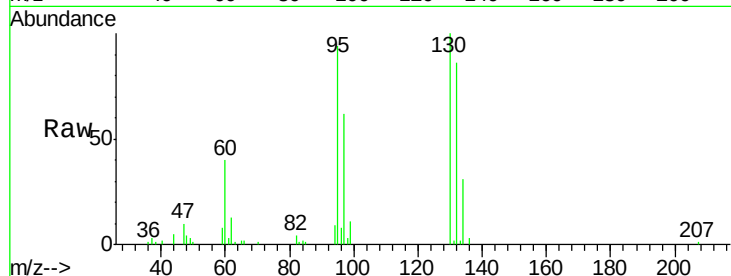
DUP01-20201207

Tgt Ion:130 Resp: 19656

Ion Ratio Lower Upper

130 100

95 94.0 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

10000

8000

6000

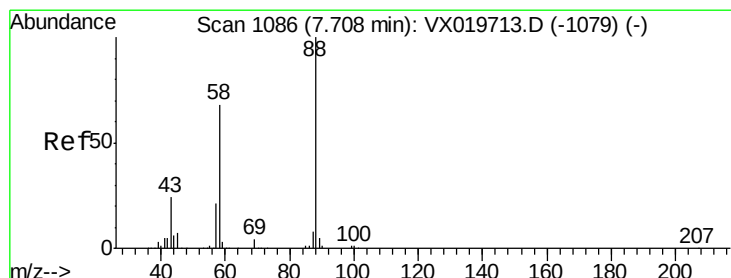
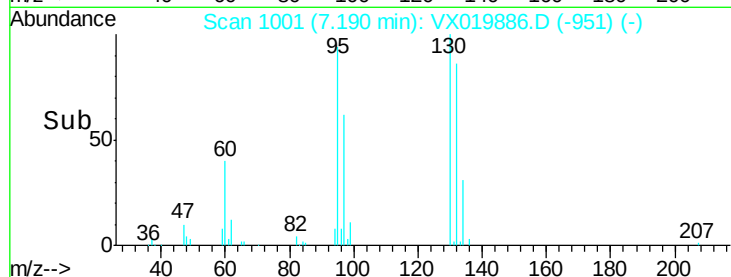
4000

2000

0

Time-->

7.10 7.15 7.20 7.25



#49

1,4-Dioxane

Concen: 0.977 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.02 min

Lab File: VX019886.D

Acq: 11 Dec 2020 19:43

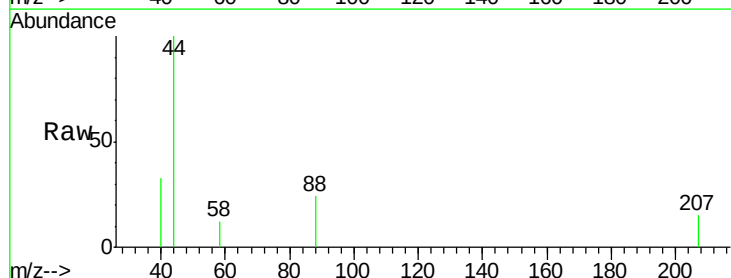
Tgt Ion: 88 Resp: 92

Ion Ratio Lower Upper

88 100

43 81.5 23.2 34.8#

58 72.8 55.0 82.4



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

7.73

150

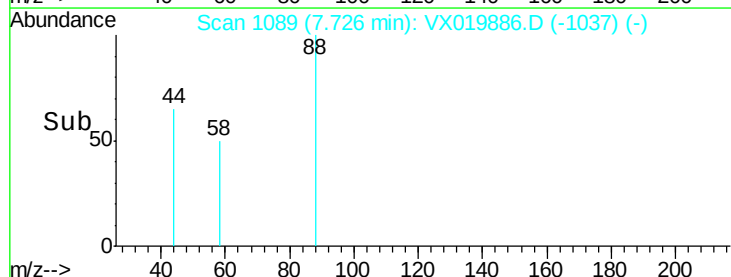
100

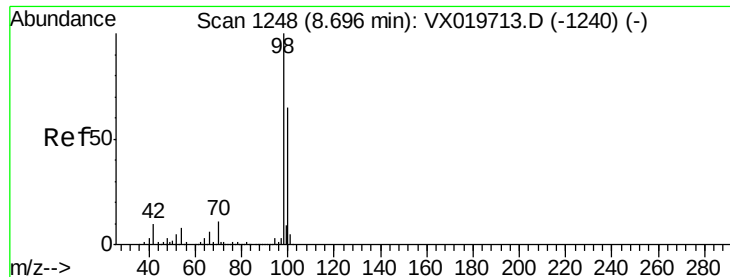
50

0

Time-->

7.70 7.72 7.74





#50

Toluene-d8

Concen: 49.008 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019886.D

Acq: 11 Dec 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

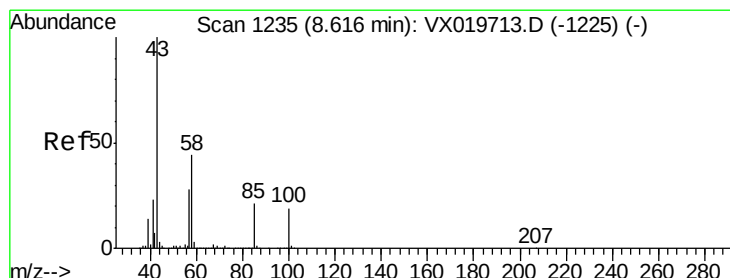
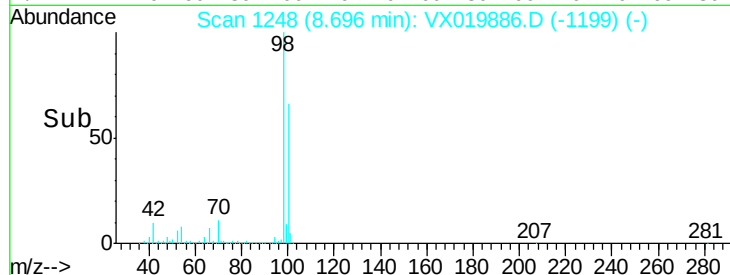
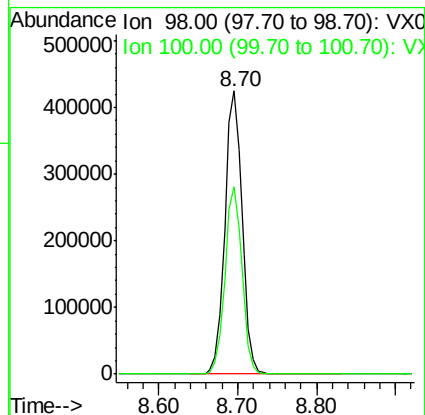
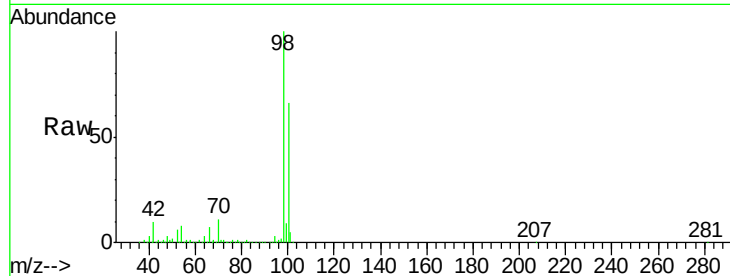
DUP01-20201207

Tgt Ion: 98 Resp: 644139

Ion Ratio Lower Upper

98 100

100 65.5 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 0.567 ug/l

RT: 8.69 min Scan# 1247

Delta R.T. 0.07 min

Lab File: VX019886.D

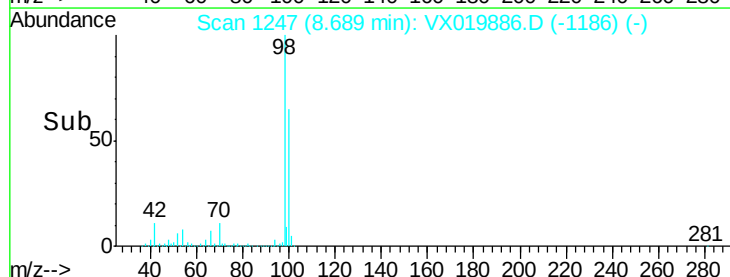
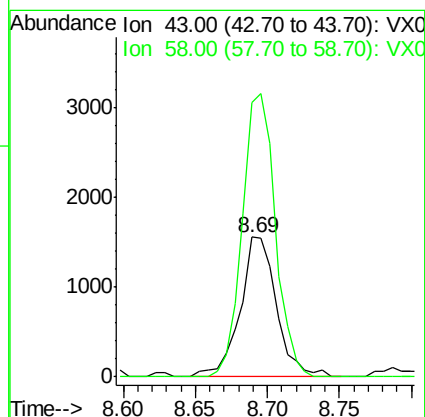
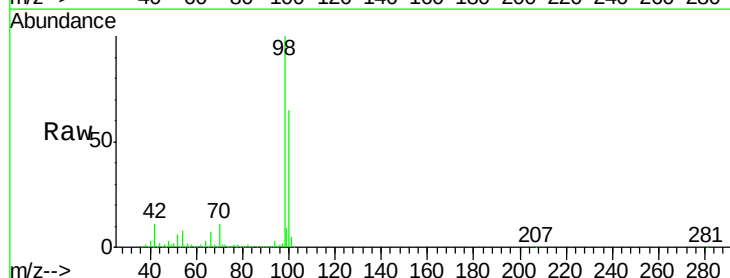
Acq: 11 Dec 2020 19:43

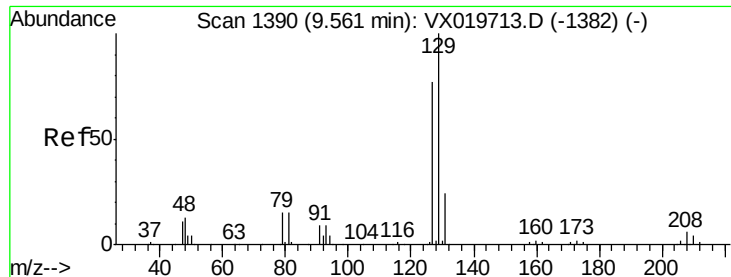
Tgt Ion: 43 Resp: 2736

Ion Ratio Lower Upper

43 100

58 183.2 35.4 53.0#

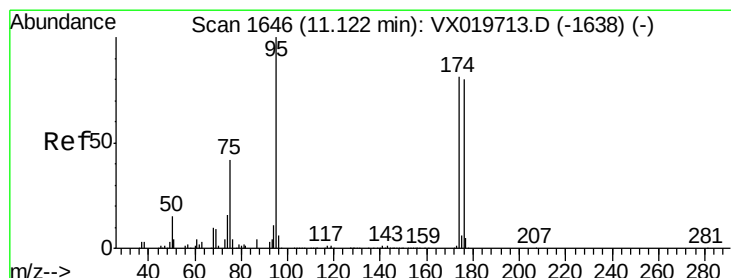
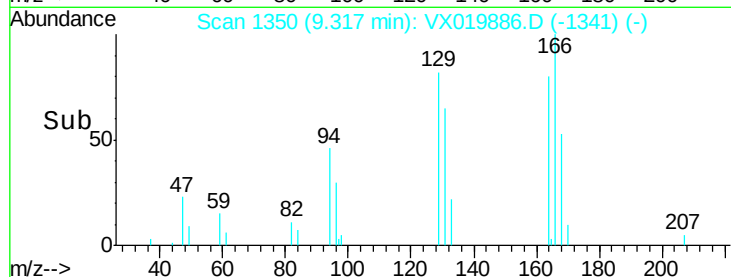
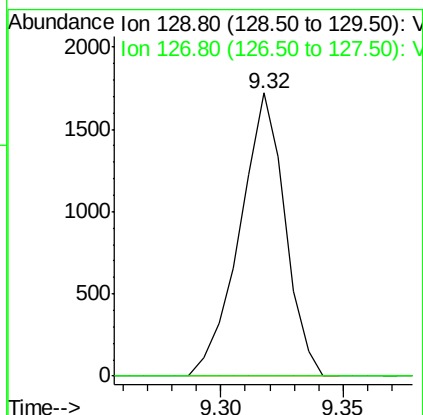
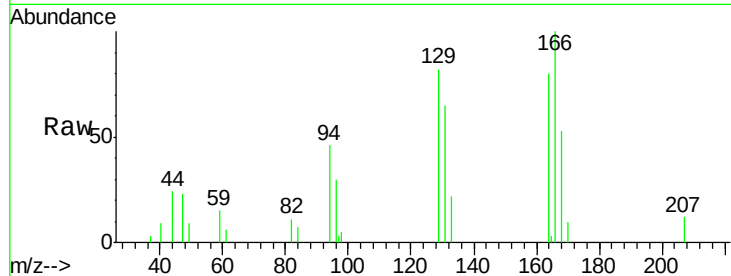




#60
Dibromochloromethane
Concen: 0.586 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.24 min
Lab File: VX019886.D
Acq: 11 Dec 2020 19:43

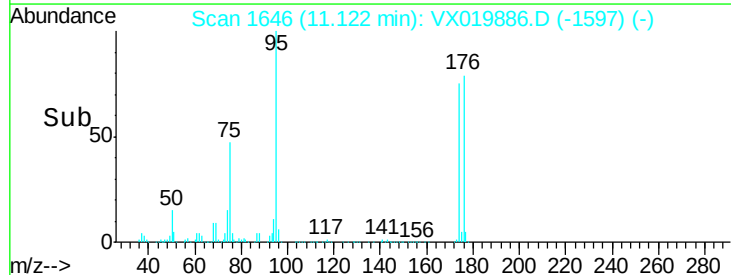
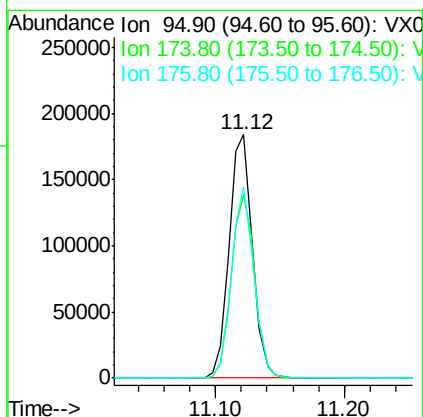
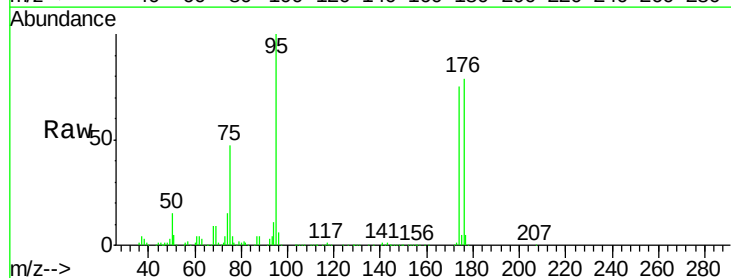
Instrument :
MSVOA_X
ClientSampleId :
DUP01-20201207

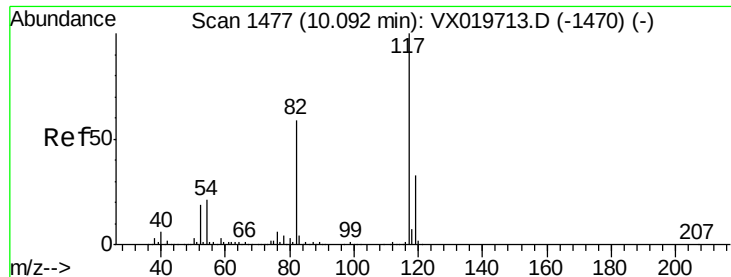
Tgt Ion: 129 Resp: 2207
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 46.589 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019886.D
Acq: 11 Dec 2020 19:43

Tgt Ion: 95 Resp: 233067
Ion Ratio Lower Upper
95 100
174 76.1 0.0 154.6
176 75.2 0.0 155.8

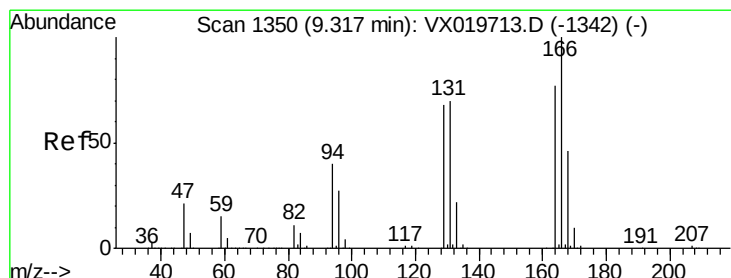
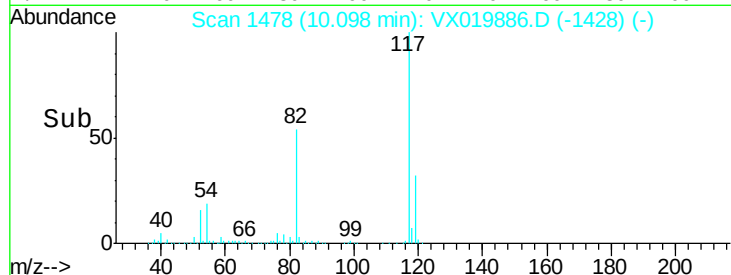
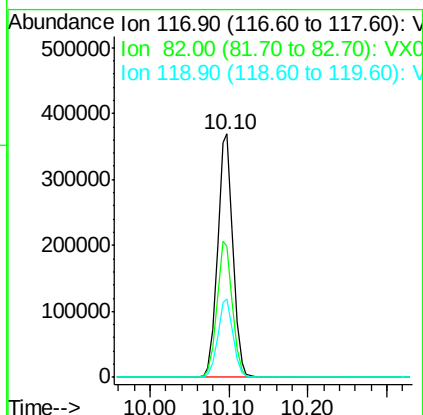
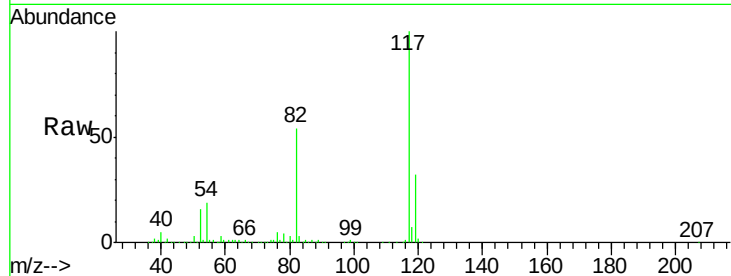




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX019886.D
Acq: 11 Dec 2020 19:43

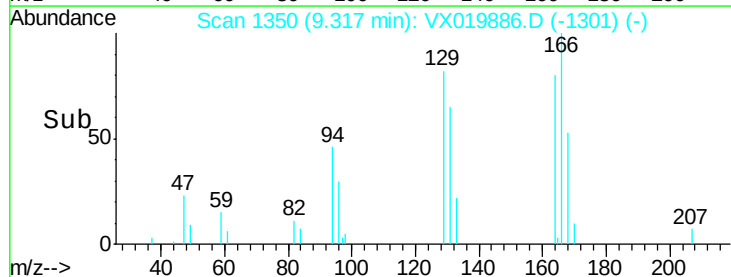
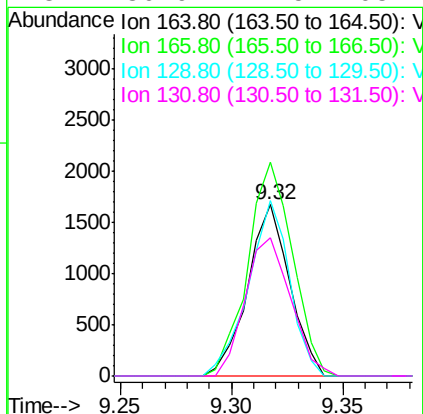
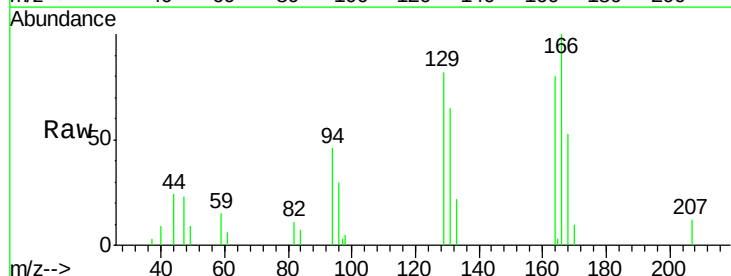
Instrument :
MSVOA_X
ClientSampleId :
DUP01-20201207

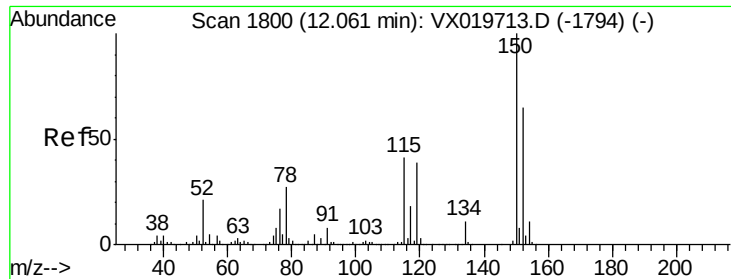
Tgt Ion:117 Resp: 497417
Ion Ratio Lower Upper
117 100
82 53.8 47.4 71.2
119 32.3 26.6 39.8



#64
Tetrachloroethene
Concen: 0.659 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX019886.D
Acq: 11 Dec 2020 19:43

Tgt Ion:164 Resp: 2199
Ion Ratio Lower Upper
164 100
166 124.9 103.4 155.2
129 102.9 70.8 106.2
131 80.9 72.5 108.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019886.D

Acq: 11 Dec 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20201207

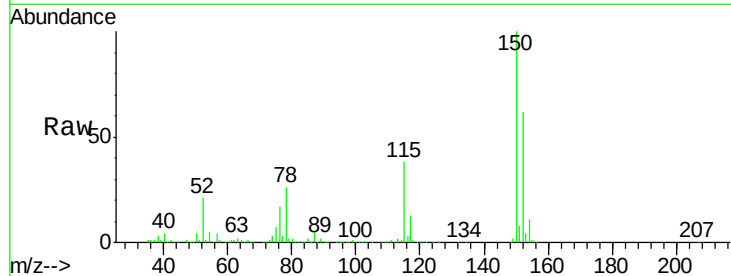
Tgt Ion:152 Resp: 220560

Ion Ratio Lower Upper

152 100

115 59.6 41.1 123.3

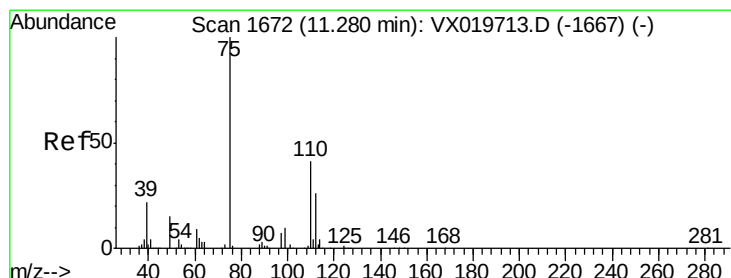
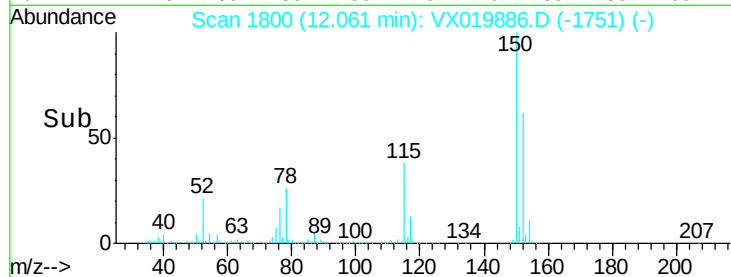
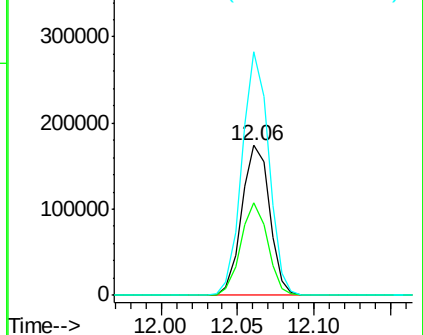
150 156.1 0.0 349.0



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: 22.706 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019886.D

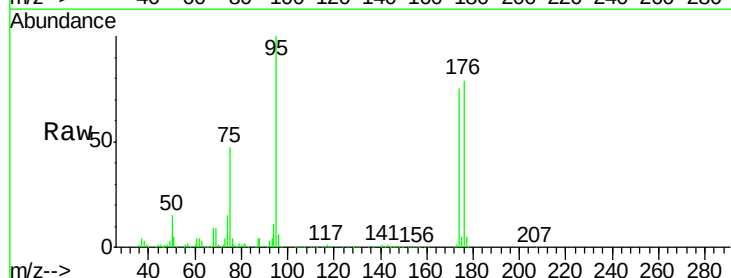
Acq: 11 Dec 2020 19:43

Tgt Ion: 75 Resp: 112322

Ion Ratio Lower Upper

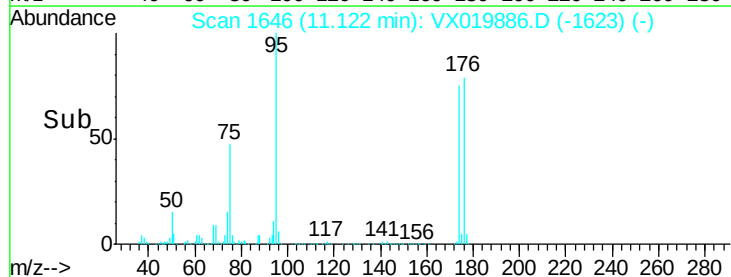
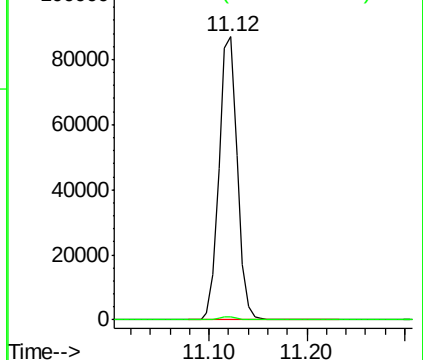
75 100

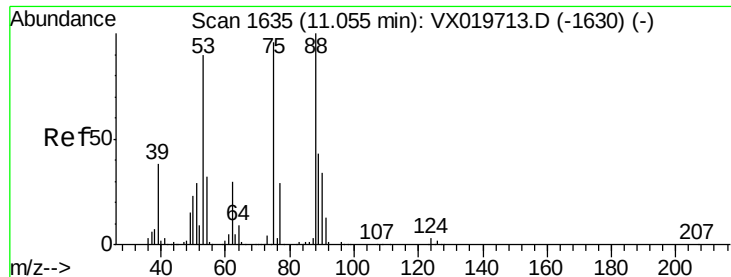
77 1.2 19.1 57.5#



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: 65.639 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019886.D

Acq: 11 Dec 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20201207

Tgt Ion: 75 Resp: 112322

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

