

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091819\
 Data File : VX012468.D
 Acq On : 18 Sep 2019 13:05
 Operator : JC/SP
 Sample : K4858-22DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP02-20190910DL

Quant Time: Sep 19 06:00:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	189249	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	299501	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	263043	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	120749	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	125779	46.37	ug/l	0.00
Spiked Amount			Recovery	=	92.74%	
35) Dibromofluoromethane	5.48	113	87472	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
50) Toluene-d8	8.71	98	349403	52.07	ug/l	0.00
Spiked Amount			Recovery	=	104.14%	
62) 4-Bromofluorobenzene	11.14	95	137016	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	

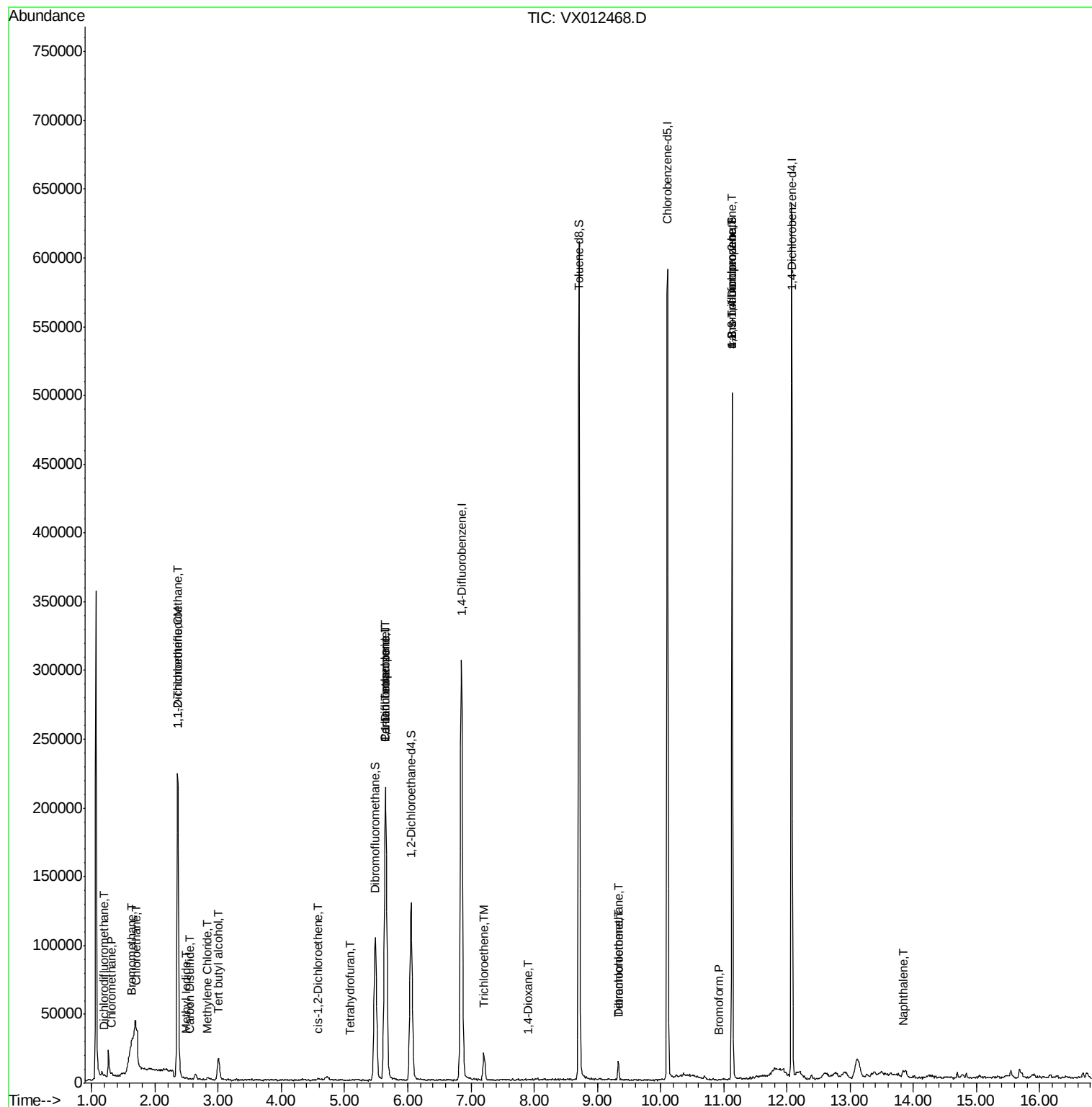
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	202	0.550	ug/l #	43
3) Chloromethane	1.32	50	399	0.383	ug/l #	64
5) Bromomethane	1.63	94	684	1.548	ug/l #	69
6) Chloroethane	1.71	64	362	0.411	ug/l #	45
9) 1,1,2-Trichlorotrifluoroet	2.36	101	87663	58.775	ug/l	99
10) Methyl Iodide	2.49	142	899	5.082	ug/l	92
11) Tert butyl alcohol	3.01	59	10258	9.259	ug/l #	77
12) 1,1-Dichloroethene	2.35	96	779	0.655	ug/l #	73
13) Acrolein	2.32	56	117	Below Cal	#	15
16) Acetone	2.45	43	1358	Below Cal	#	45
17) Carbon Disulfide	2.55	76	399	2.035	ug/l #	33
20) Methylene Chloride	2.84	84	782	0.476	ug/l #	88
27) cis-1,2-Dichloroethene	4.58	96	477	0.258	ug/l	49
29) Tetrahydrofuran	5.10	42	233	0.224	ug/l #	76
36) 1,1-Dichloropropene	5.65	75	15421	8.472	ug/l #	52
38) Carbon Tetrachloride	5.65	117	20410	9.016	ug/l #	16
44) Trichloroethene	7.21	130	7542	4.953	ug/l	94
49) 1,4-Dioxane	7.90	88	20	0.348	ug/l #	1
60) Dibromochloromethane	9.33	129	2324	1.187	ug/l #	11
64) Tetrachloroethene	9.33	164	2064	1.712	ug/l	87
71) Bromoform	10.93	173	55	2.903	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	70490	25.414	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	70490	68.546	ug/l #	8
95) Naphthalene	13.83	128	2661	0.320	ug/l #	82

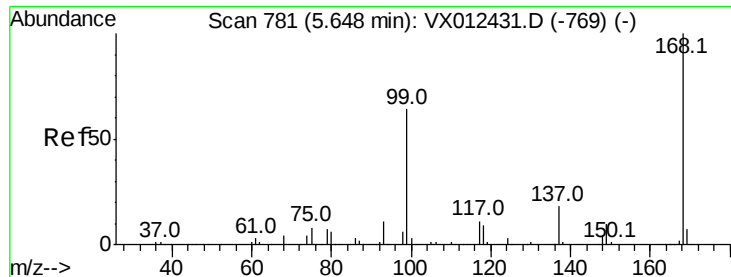
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 17 15:27:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

Instrument :

MSVOA_X

ClientSampleId :

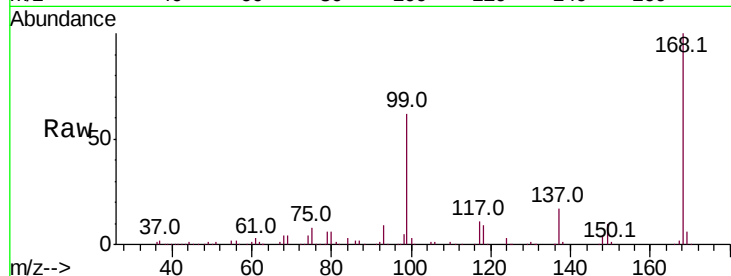
DUP02-20190910DL

Tot Ion:168 Resp: 189249

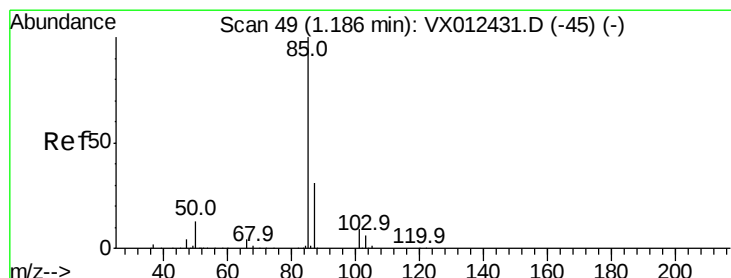
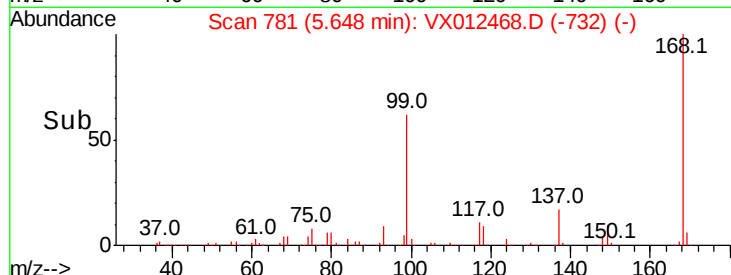
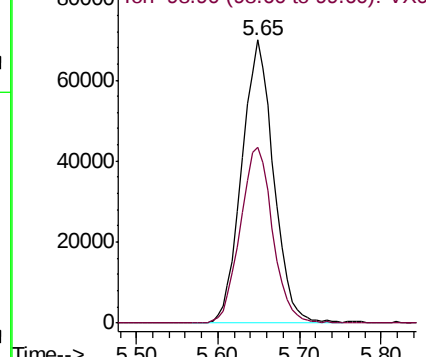
Ion Ratio Lower Upper

168 100

99 62.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): VX012431.D (-769) (-)



#2

Dichlorodifluoromethane

Concen: 0.550 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX012468.D

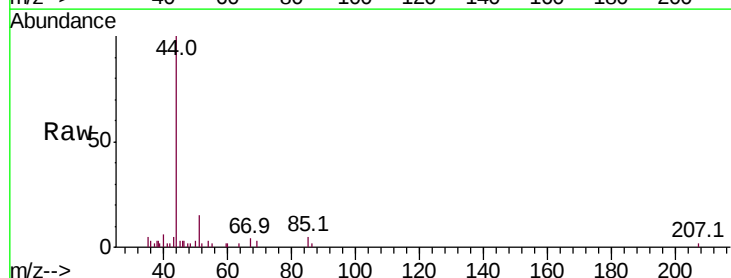
Acq: 18 Sep 2019 13:05

Tgt Ion: 85 Resp: 202

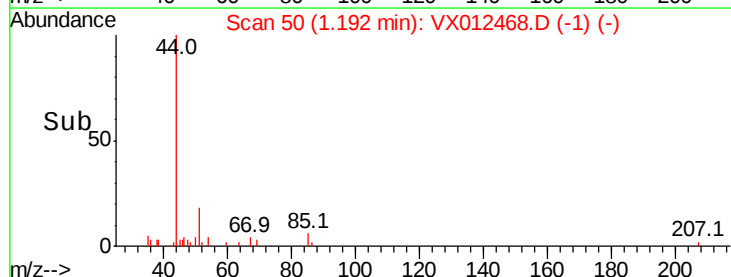
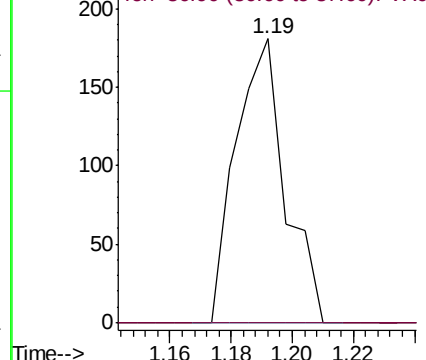
Ion Ratio Lower Upper

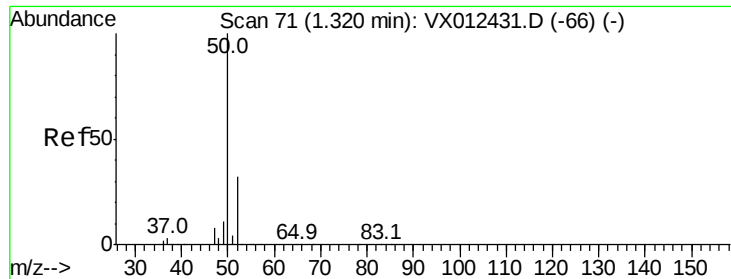
85 100

87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX012431.D (-45) (-)





#3

Chloromethane

Concen: 0.383 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

Instrument :

MSVOA_X

ClientSampleId :

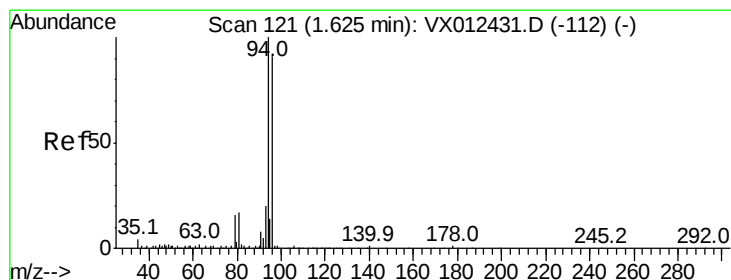
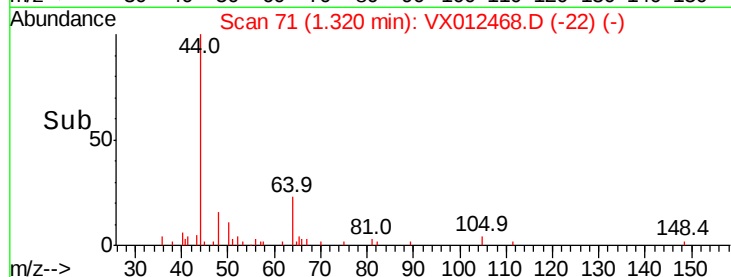
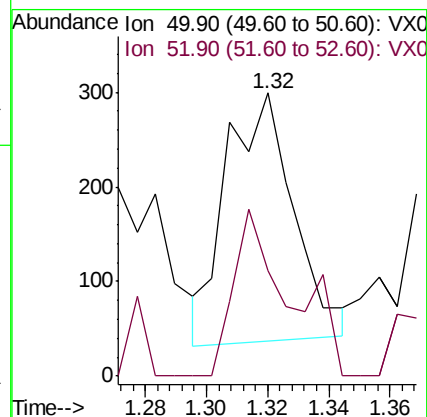
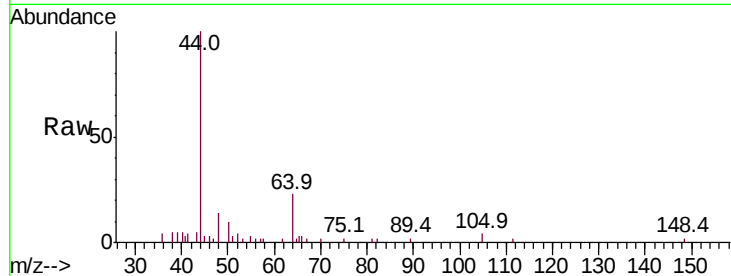
DUP02-20190910DL

Tot Ion: 50 Resp: 399

Ion Ratio Lower Upper

50 100

52 52.1 25.7 38.5#



#5

Bromomethane

Concen: 1.548 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX012468.D

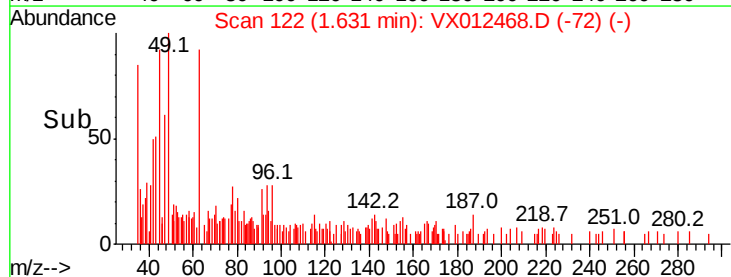
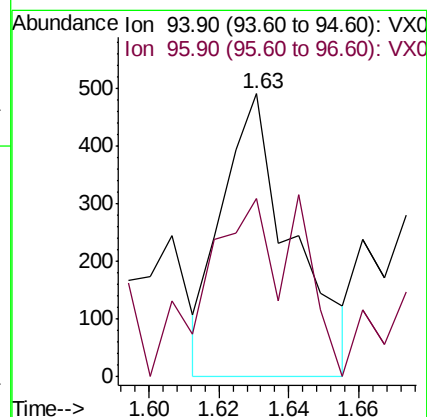
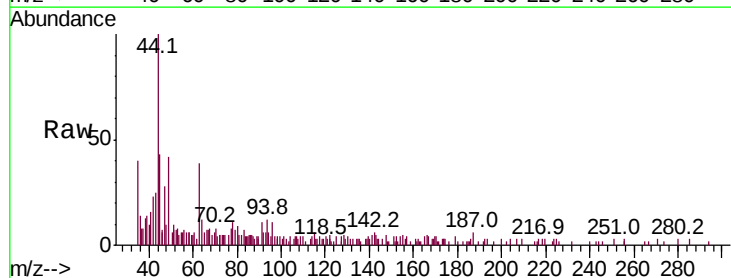
Acq: 18 Sep 2019 13:05

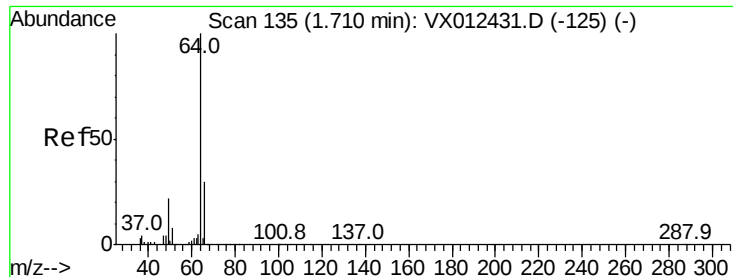
Tgt Ion: 94 Resp: 684

Ion Ratio Lower Upper

94 100

96 61.4 72.8 109.2#





#6

Chloroethane

Concen: 0.411 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

Instrument :

MSVOA_X

ClientSampleId :

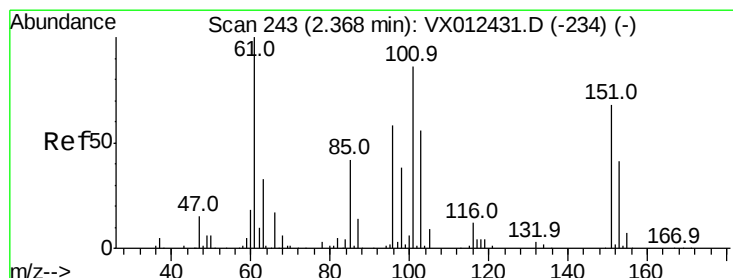
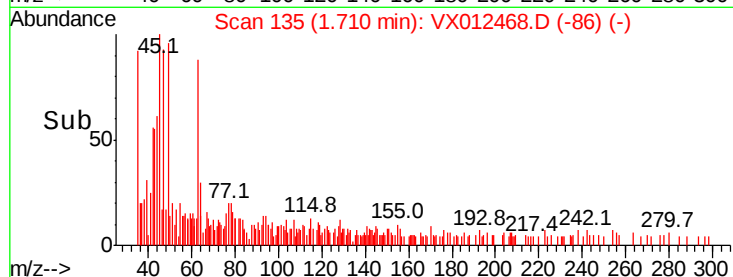
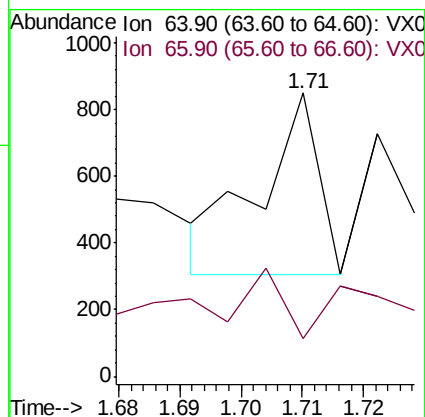
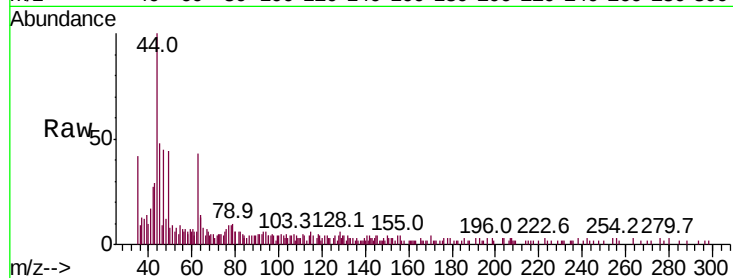
DUP02-20190910DL

Tot Ion: 64 Resp: 362

Ion Ratio Lower Upper

64 100

66 0.0 24.0 36.0#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 58.775 ug/l

RT: 2.36 min Scan# 241

Delta R.T. -0.01 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

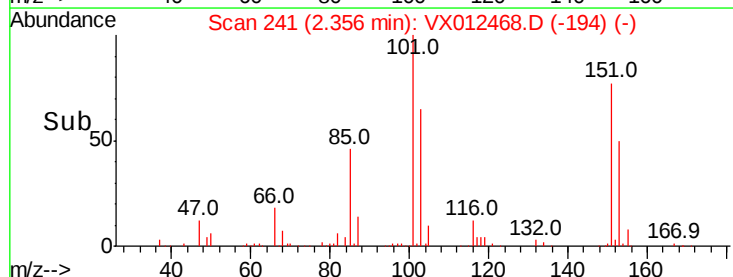
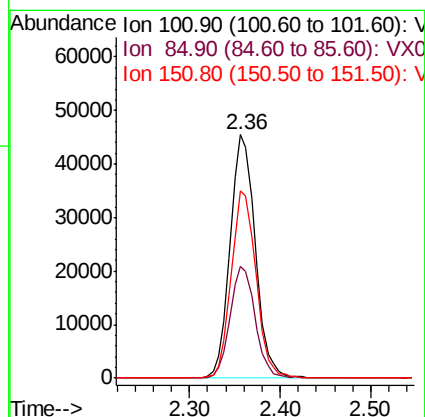
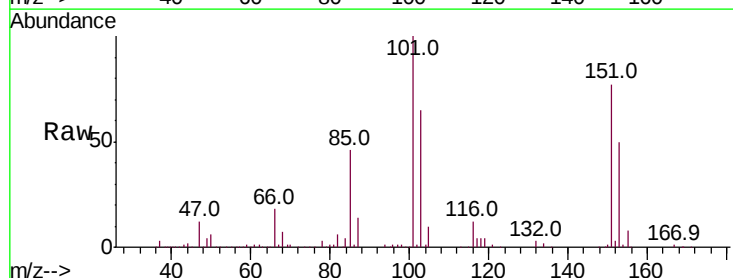
Tgt Ion: 101 Resp: 87663

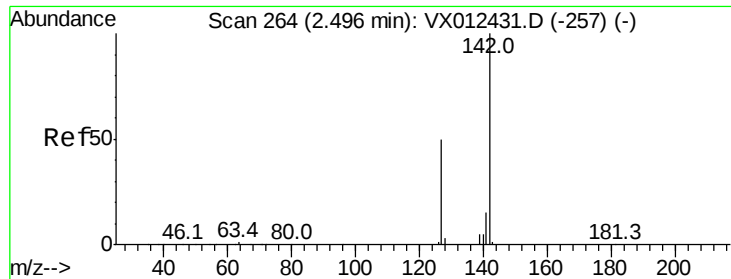
Ion Ratio Lower Upper

101 100

85 45.8 37.3 55.9

151 76.0 61.0 91.4

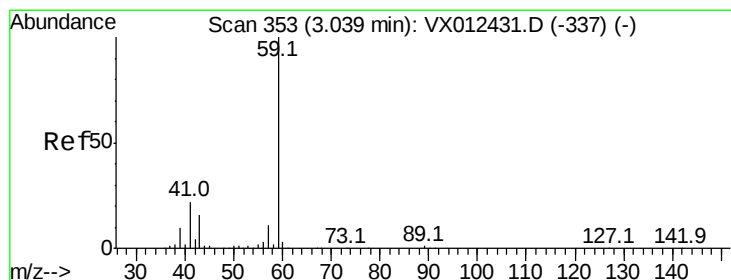
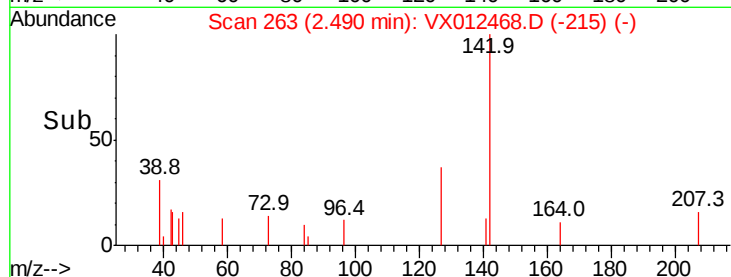
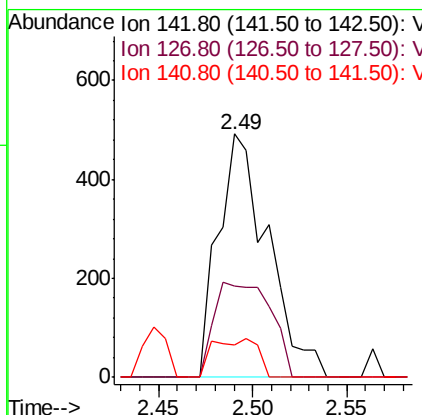
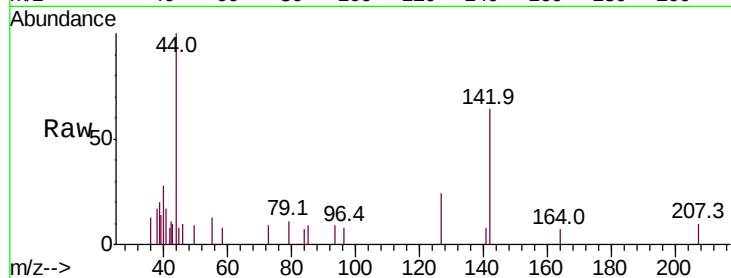




#10
Methvl Iodide
Concen: 5.082 ug/l
RT: 2.49 min Scan# 263
Delta R.T. -0.01 min
Lab File: VX012468.D
Acq: 18 Sep 2019 13:05

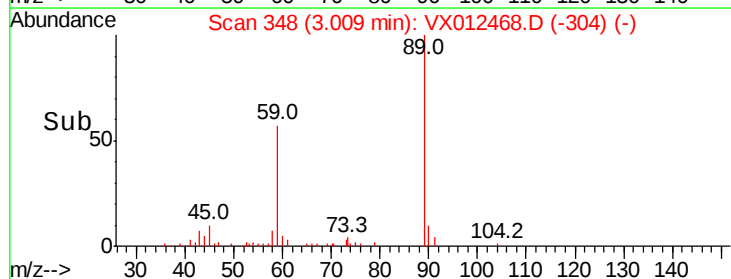
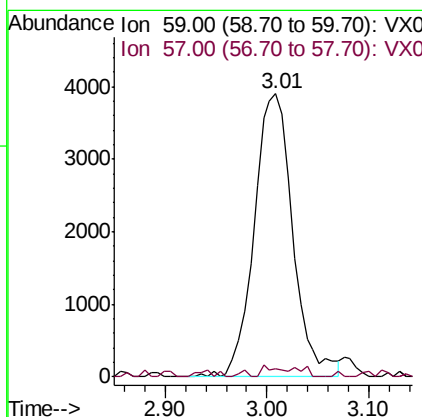
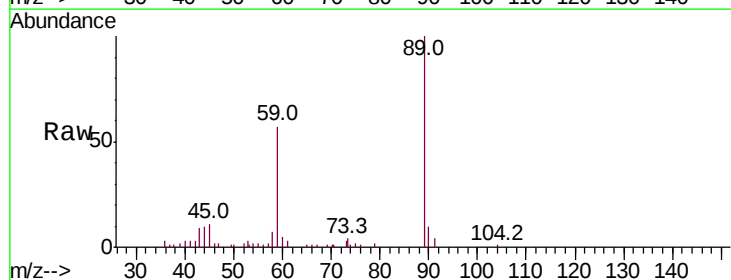
Instrument :
MSVOA_X
ClientSampleId :
DUP02-20190910DL

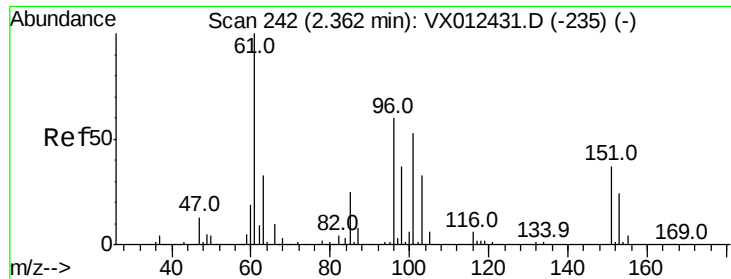
Tot Ion:142 Resp: 899
Ion Ratio Lower Upper
142 100
127 44.2 40.8 61.2
141 14.2 12.1 18.1



#11
Tert butyl alcohol
Concen: 9.259 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX012468.D
Acq: 18 Sep 2019 13:05

Tgt Ion: 59 Resp: 10258
Ion Ratio Lower Upper
59 100
57 1.9 8.3 12.5#





#12

1,1-Dichloroethene

Concen: 0.655 ug/l

RT: 2.35 min Scan# 240

Delta R.T. -0.01 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

Instrument :

MSVOA_X

ClientSampleId :

DUP02-20190910DL

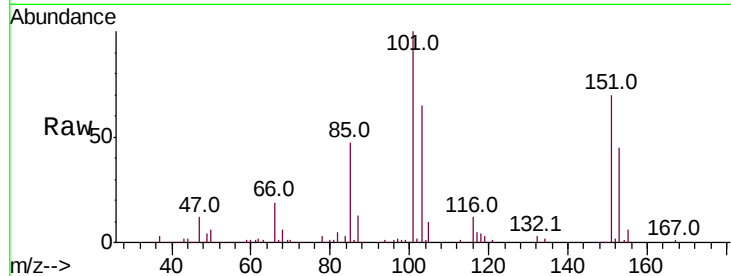
Tot Ion: 96 Resp: 779

Ion Ratio Lower Upper

96 100

61 120.3 133.8 200.6#

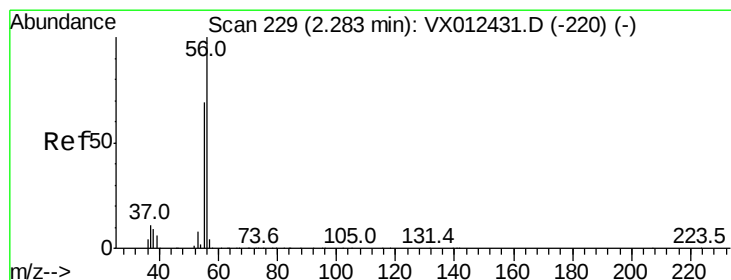
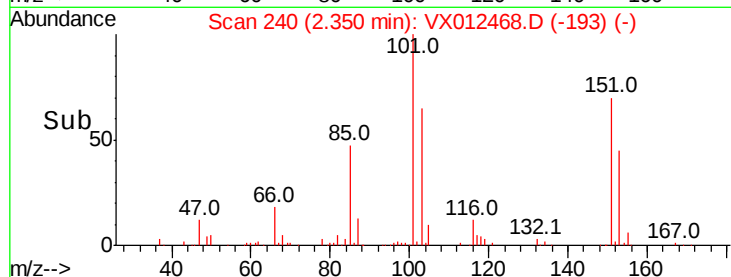
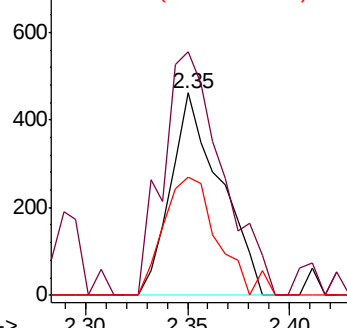
98 58.2 49.9 74.9



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: Below Cal

RT: 2.32 min Scan# 235

Delta R.T. 0.04 min

Lab File: VX012468.D

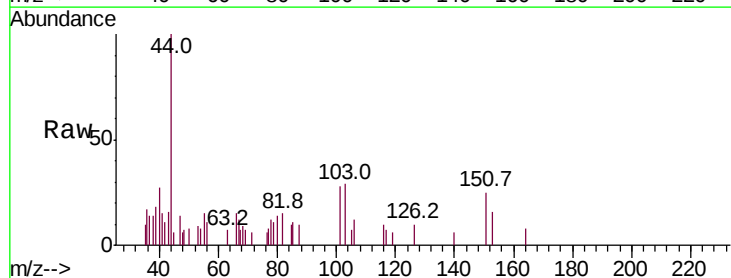
Acq: 18 Sep 2019 13:05

Tgt Ion: 56 Resp: 117

Ion Ratio Lower Upper

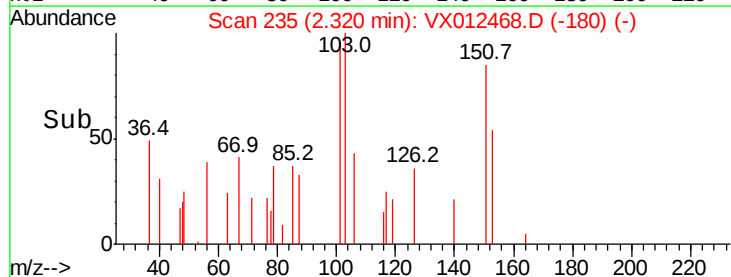
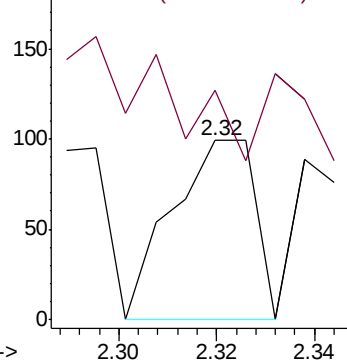
56 100

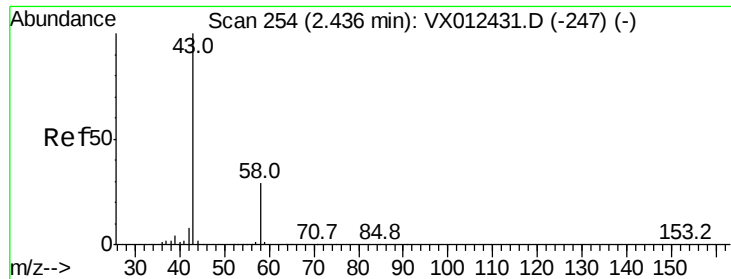
55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 256

Delta R.T. 0.01 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

Instrument :

MSVOA_X

ClientSampleId :

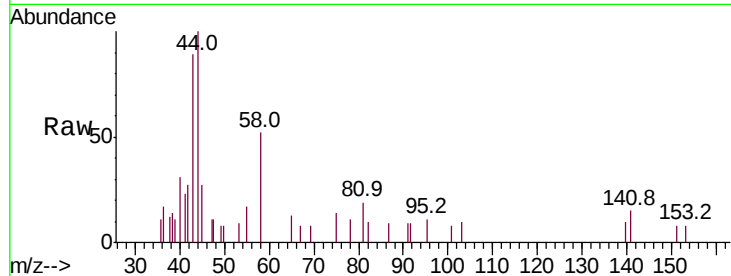
DUP02-20190910DL

Tot Ion: 43 Resp: 1358

Ion Ratio Lower Upper

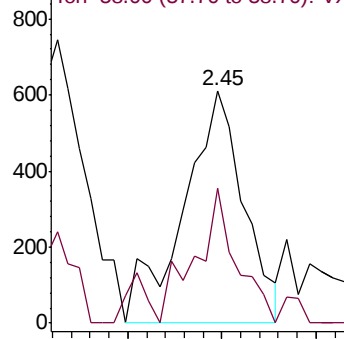
43 100

58 58.3 23.3 34.9#

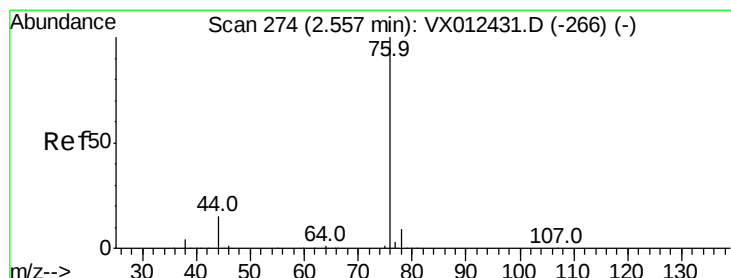
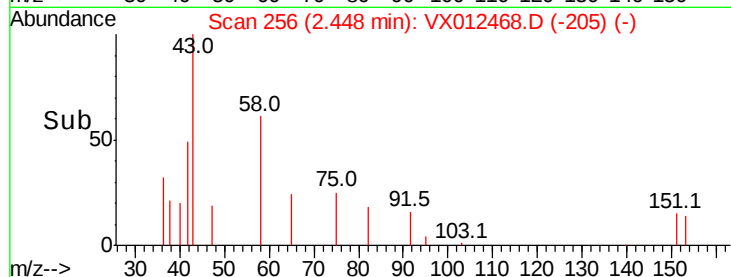


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#17

Carbon Disulfide

Concen: 2.035 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.01 min

Lab File: VX012468.D

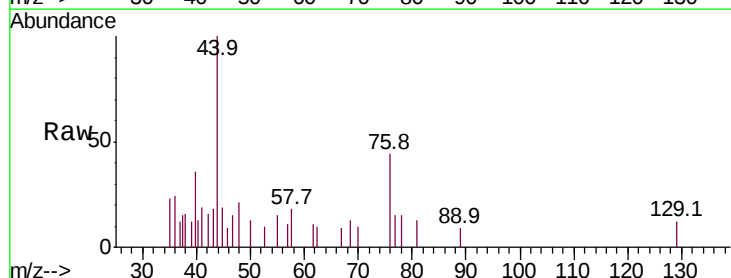
Acq: 18 Sep 2019 13:05

Tgt Ion: 76 Resp: 399

Ion Ratio Lower Upper

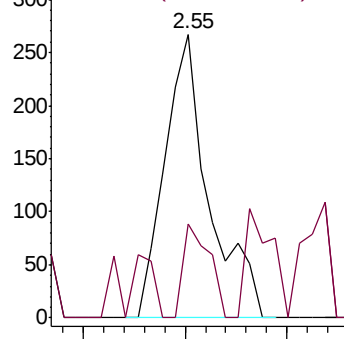
76 100

78 33.3 7.3 10.9#

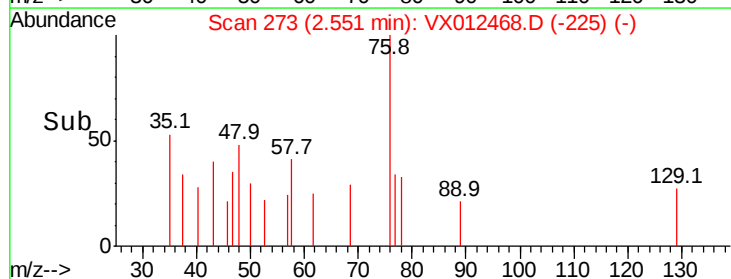


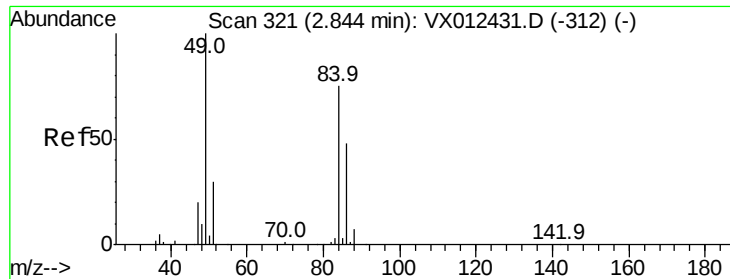
Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->

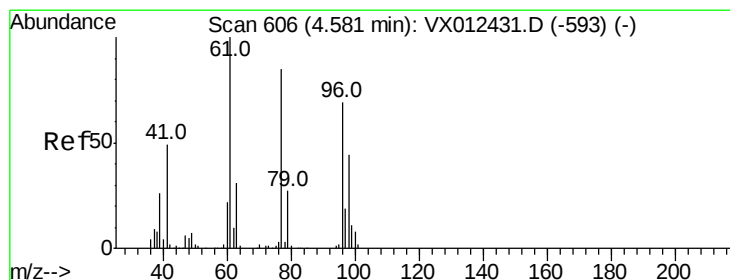
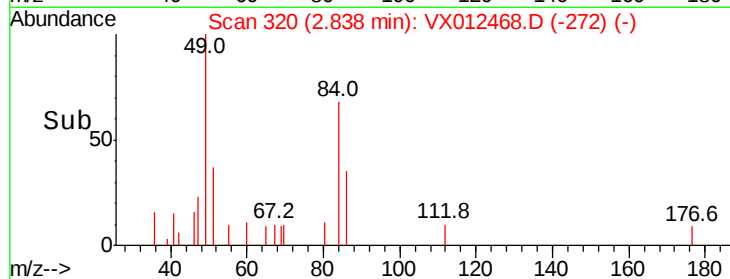
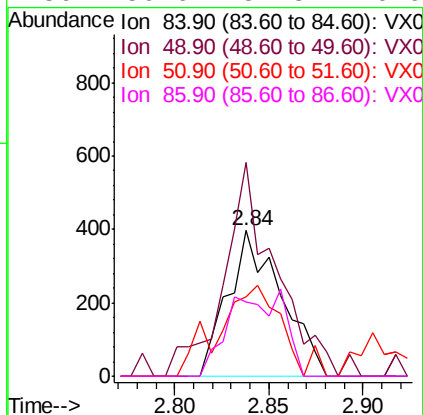
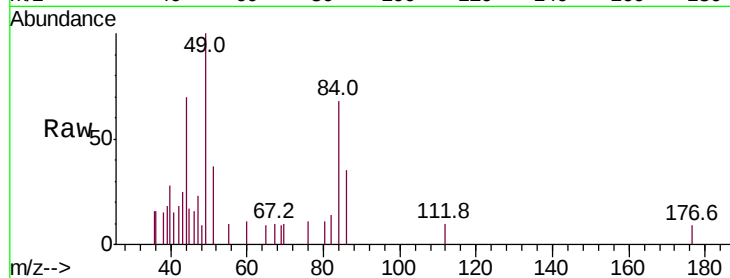




#20
Methylene Chloride
Concen: 0.476 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX012468.D
Acq: 18 Sep 2019 13:05

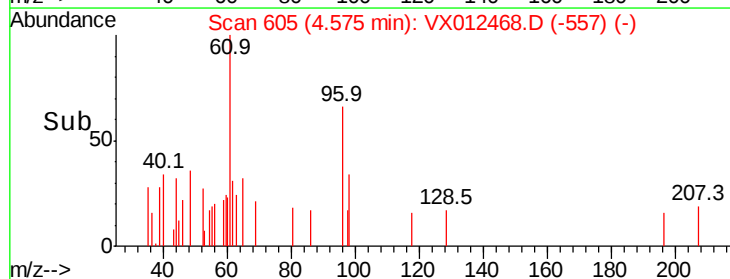
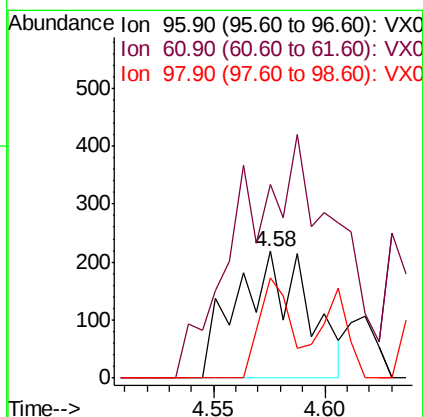
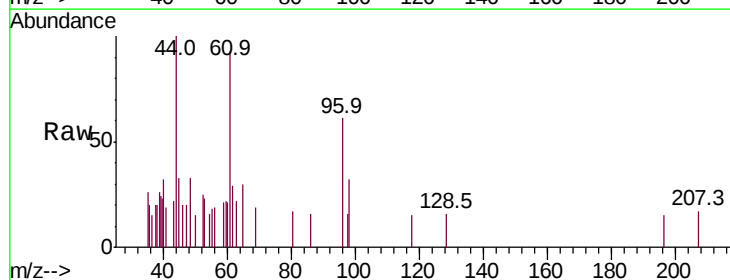
Instrument :
MSVOA_X
ClientSampleId :
DUP02-20190910DL

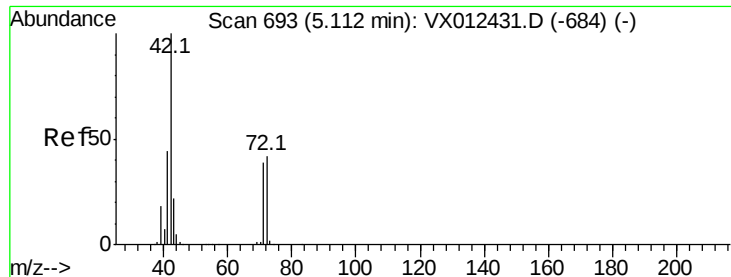
Tot Ion: 84 Resp: 782
Ion Ratio Lower Upper
84 100
49 126.2 106.8 160.2
51 54.7 32.3 48.5#
86 50.6 51.3 76.9#



#27
cis-1,2-Dichloroethene
Concen: 0.258 ug/l
RT: 4.58 min Scan# 605
Delta R.T. -0.01 min
Lab File: VX012468.D
Acq: 18 Sep 2019 13:05

Tgt Ion: 96 Resp: 477
Ion Ratio Lower Upper
96 100
61 86.4 0.0 319.4
98 34.4 0.0 130.6





#29

Tetrahydrofuran

Concen: 0.224 ug/l

RT: 5.10 min Scan# 691

Delta R.T. -0.01 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

Instrument :

MSVOA_X

ClientSampleId :

DUP02-20190910DL

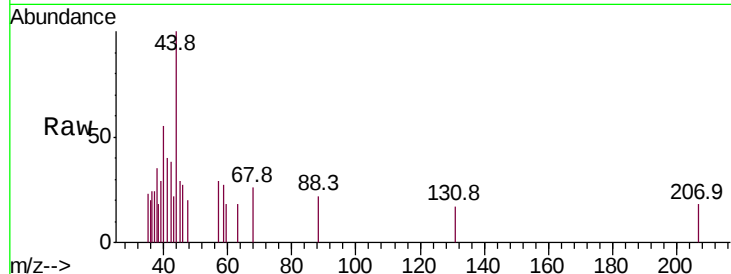
Tot Ion: 42 Resp: 233

Ion Ratio Lower Upper

42 100

72 21.9 34.0 51.0#

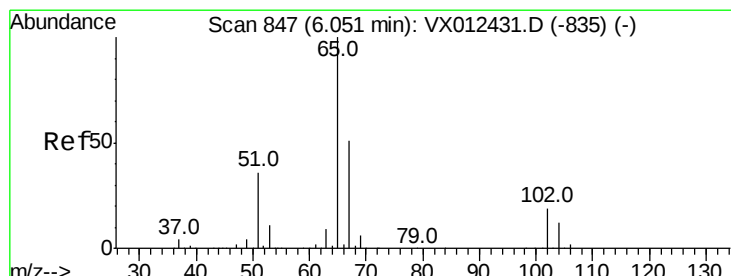
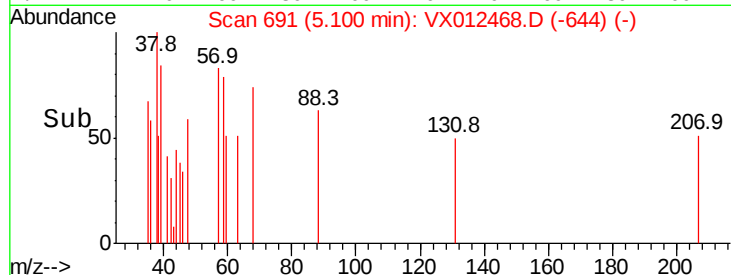
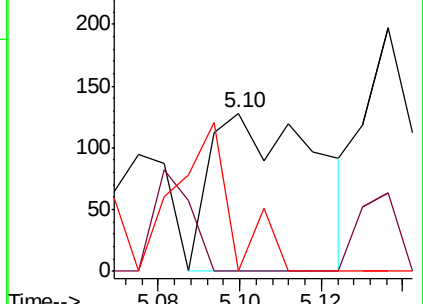
71 48.5 31.5 47.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.373 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012468.D

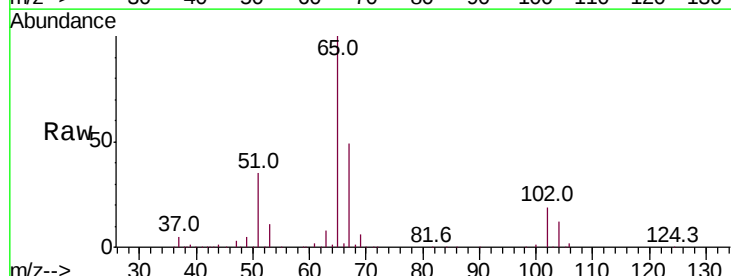
Acq: 18 Sep 2019 13:05

Tgt Ion: 65 Resp: 125779

Ion Ratio Lower Upper

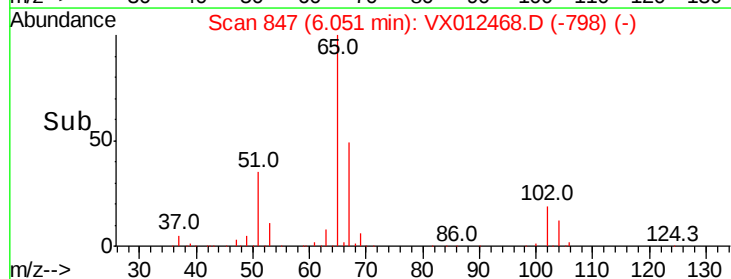
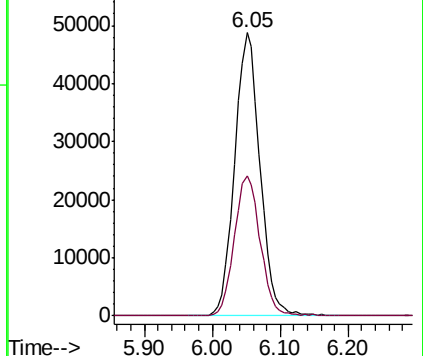
65 100

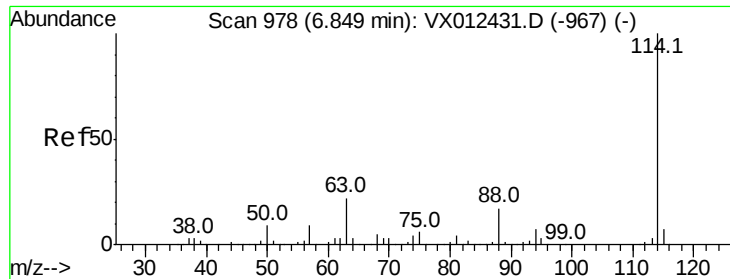
67 50.7 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

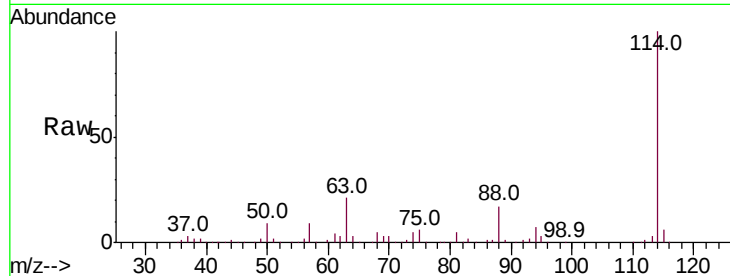




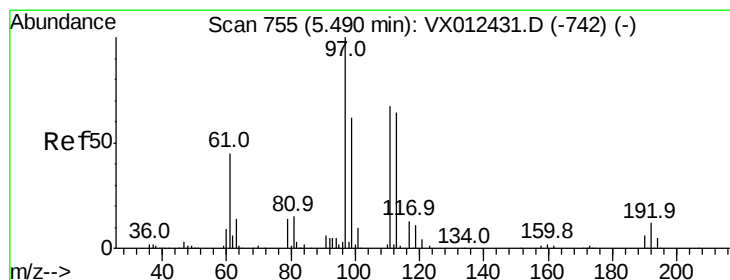
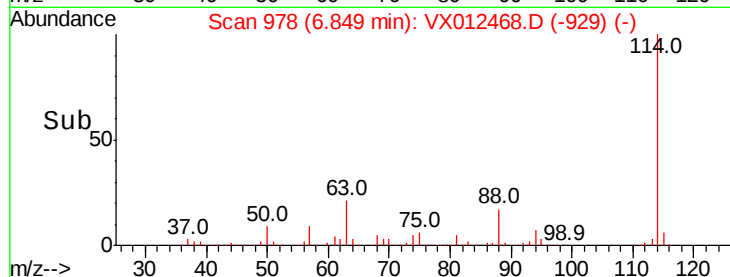
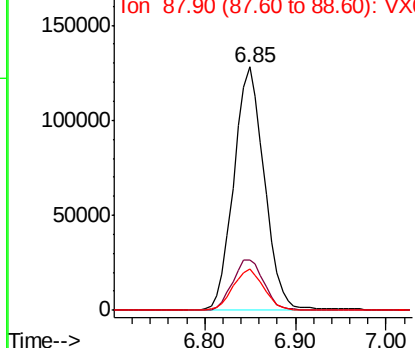
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012468.D
 Acq: 18 Sep 2019 13:05

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP02-20190910DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	43.2
88	17.2	0.0	33.2

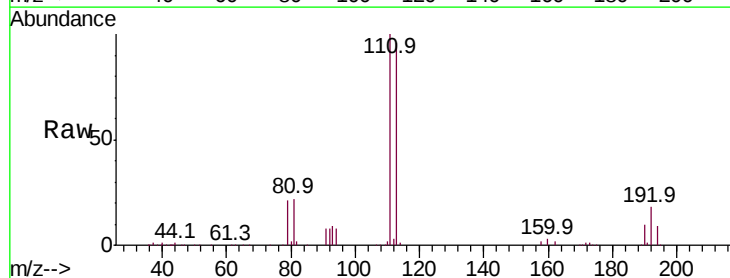


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

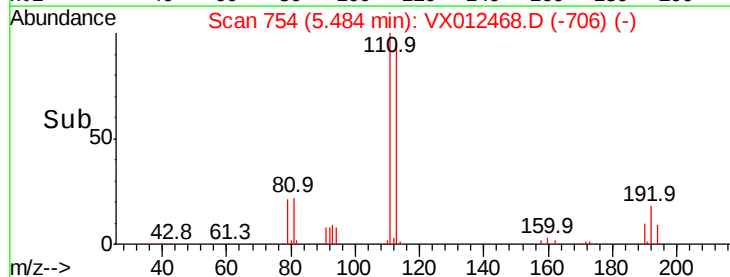
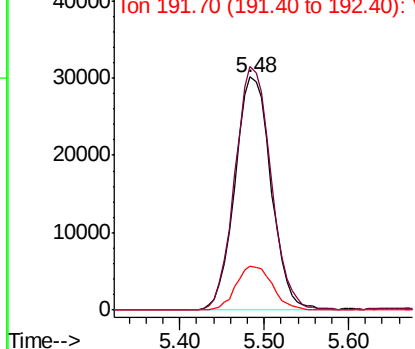


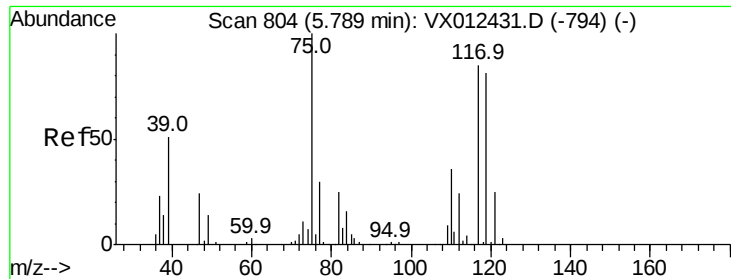
#35
 Dibromofluoromethane
 Concen: 48.254 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VX012468.D
 Acq: 18 Sep 2019 13:05

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.3	83.4	125.2
192	19.1	14.4	21.6



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

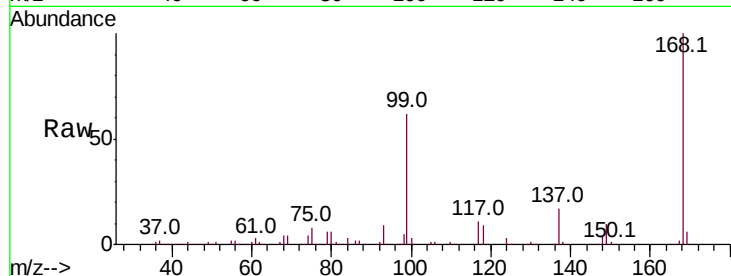




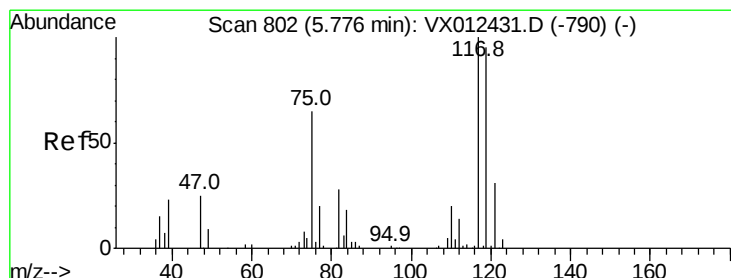
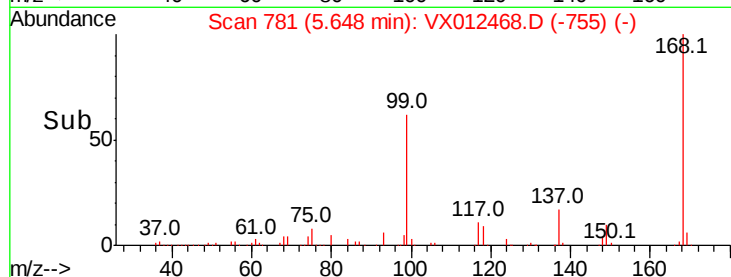
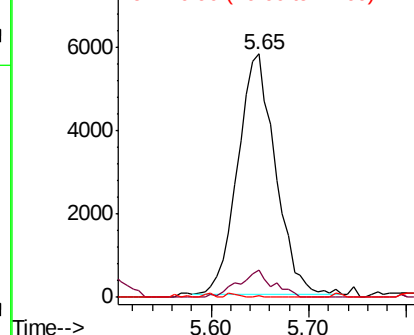
#36
 1,1-Dichloropropene
 Concen: 8.472 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012468.D
 Acq: 18 Sep 2019 13:05

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP02-20190910DL

Tot Ion: 75 Resp: 15421
 Ion Ratio Lower Upper
 75 100
 110 10.2 16.7 50.0#
 77 0.1 24.2 36.2#

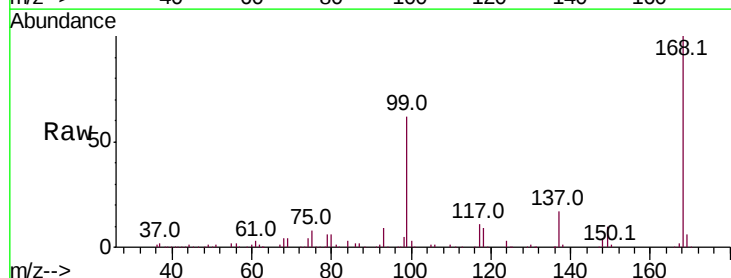


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

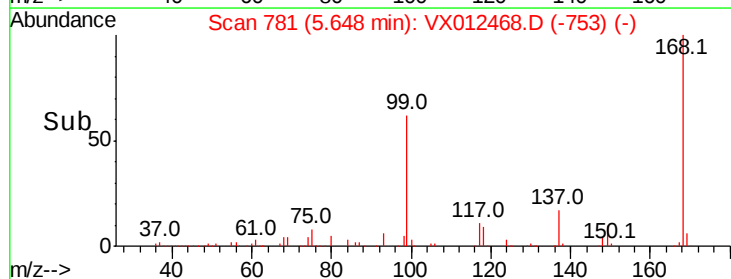
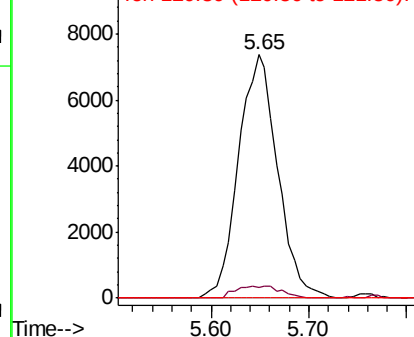


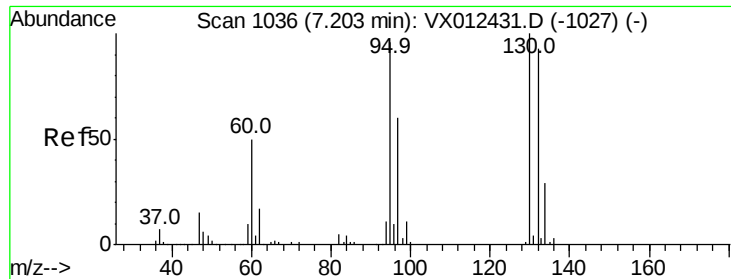
#38
 Carbon Tetrachloride
 Concen: 9.016 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX012468.D
 Acq: 18 Sep 2019 13:05

Tgt Ion: 117 Resp: 20410
 Ion Ratio Lower Upper
 117 100
 119 4.5 75.7 113.5#
 121 0.0 24.2 36.4#



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





#44

Trichloroethene

Concen: 4.953 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

Instrument :

MSVOA_X

ClientSampleId :

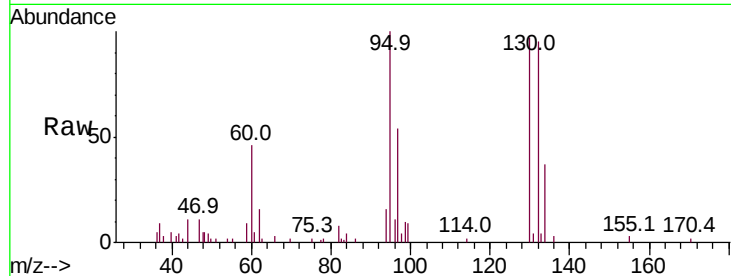
DUP02-20190910DL

Tot Ion:130 Resp: 7542

Ion Ratio Lower Upper

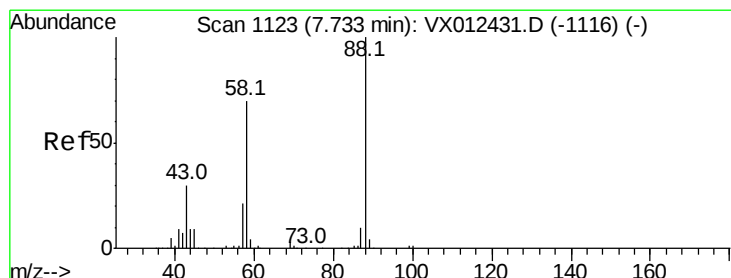
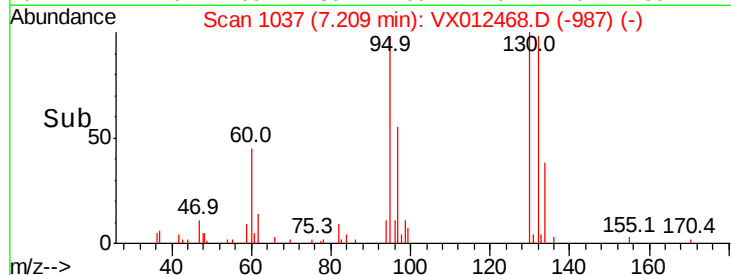
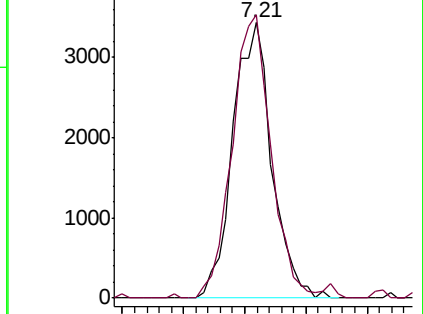
130 100

95 102.8 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.348 ug/l

RT: 7.90 min Scan# 1151

Delta R.T. 0.17 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

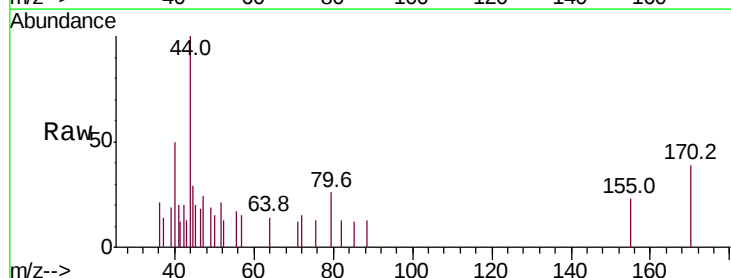
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 1005.0 29.4 44.0#

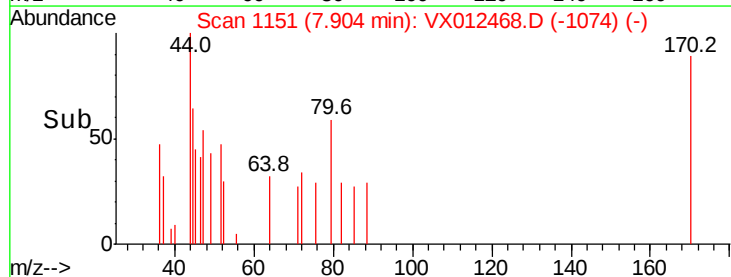
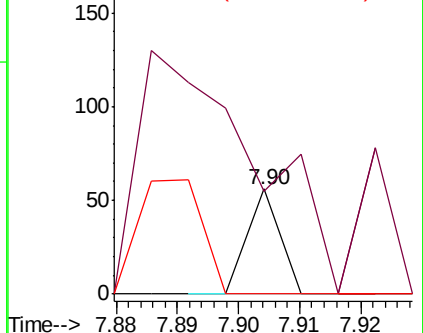
58 220.0 57.5 86.3#

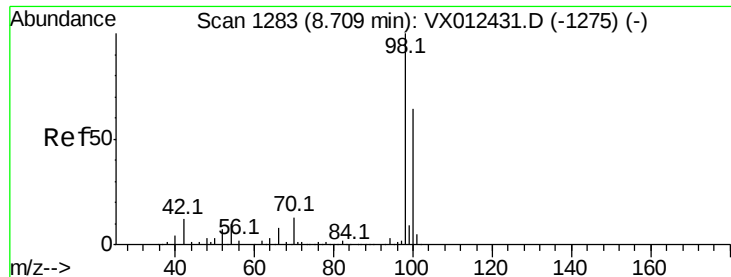


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.074 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

Instrument :

MSVOA_X

ClientSampleId :

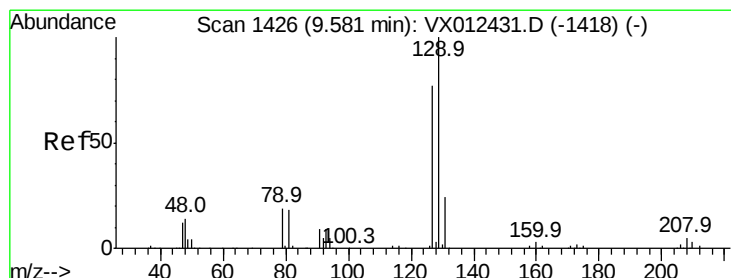
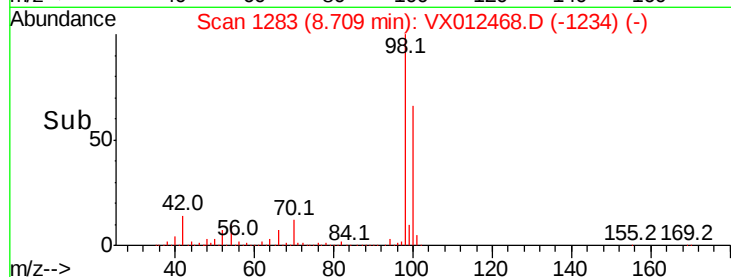
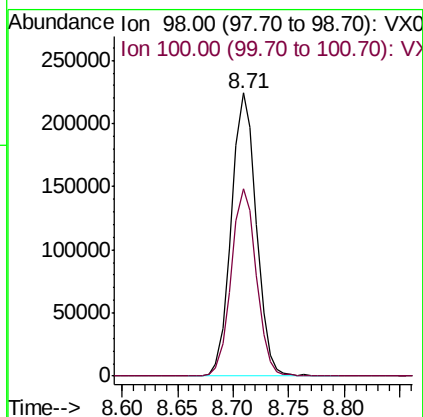
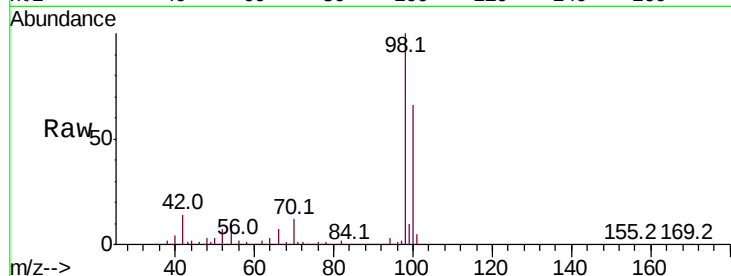
DUP02-20190910DL

Tot Ion: 98 Resp: 349403

Ion Ratio Lower Upper

98 100

100 66.7 53.4 80.2



#60

Dibromochloromethane

Concen: 1.187 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX012468.D

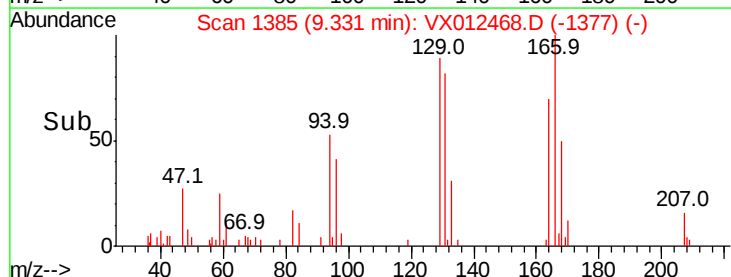
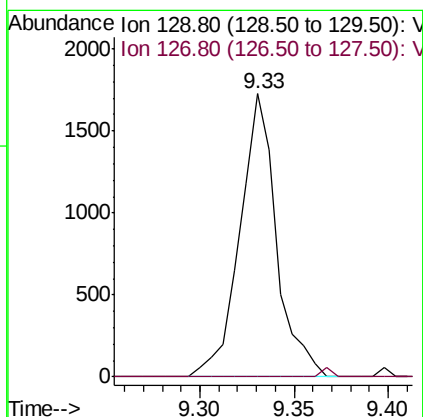
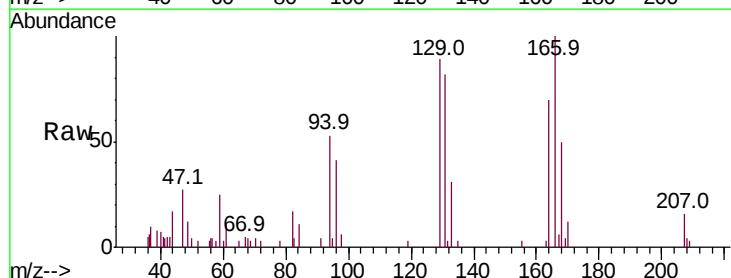
Acq: 18 Sep 2019 13:05

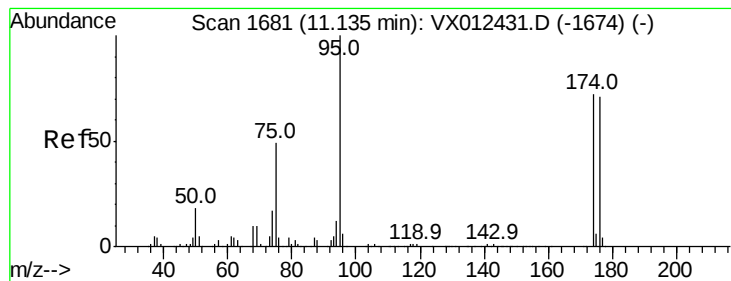
Tgt Ion: 129 Resp: 2324

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.6#





#62

4-Bromofluorobenzene

Concen: 49.181 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

Instrument :

MSVOA_X

ClientSampleId :

DUP02-20190910DL

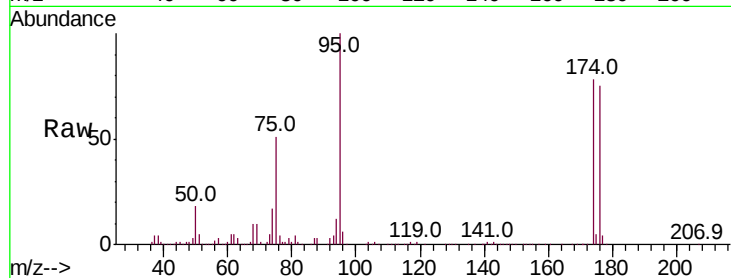
Tot Ion: 95 Resp: 137016

Ion Ratio Lower Upper

95 100

174 72.0 0.0 140.0

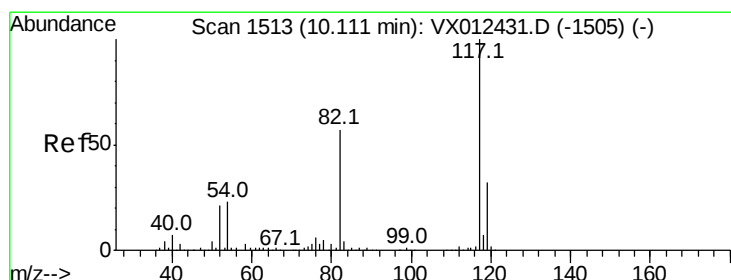
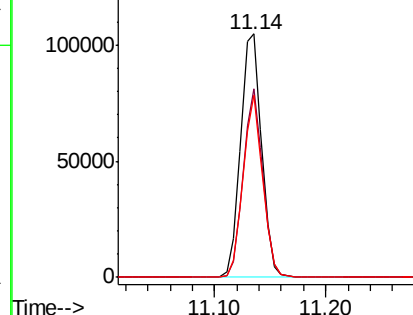
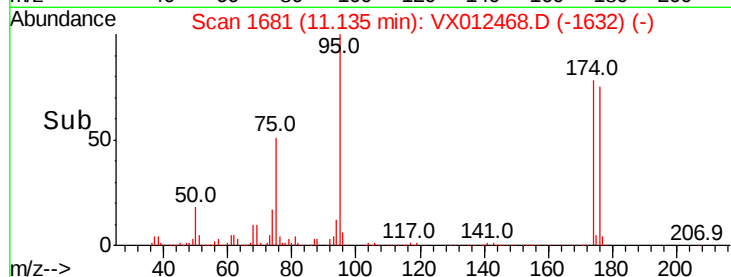
176 69.6 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012468.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012468.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012468.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

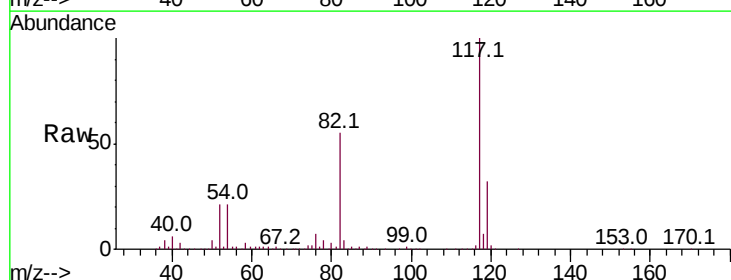
Tgt Ion: 117 Resp: 263043

Ion Ratio Lower Upper

117 100

82 54.9 45.9 68.9

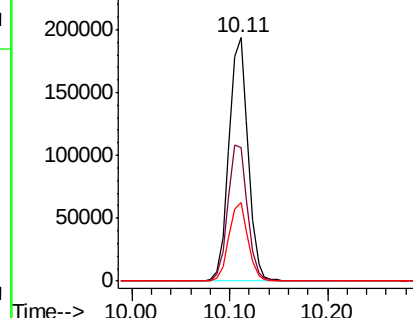
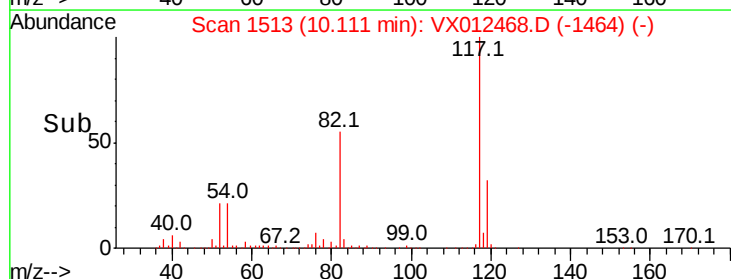
119 32.5 25.3 37.9

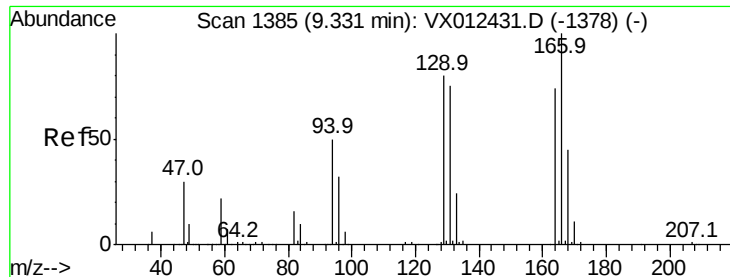


Abundance Ion 116.90 (116.60 to 117.60): VX012468.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012468.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012468.D (-1464) (-)





#64

Tetrachloroethene

Concen: 1.712 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

Instrument :

MSVOA_X

ClientSampleId :

DUP02-20190910DL

Tot Ion:164 Resp: 2064

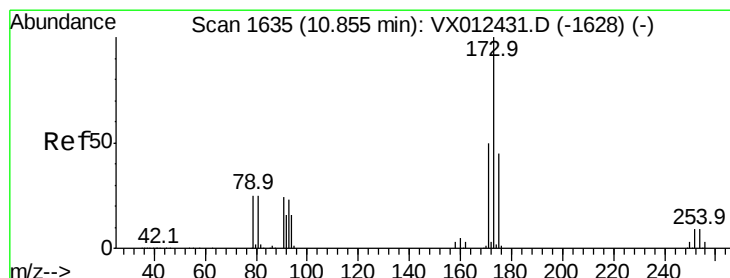
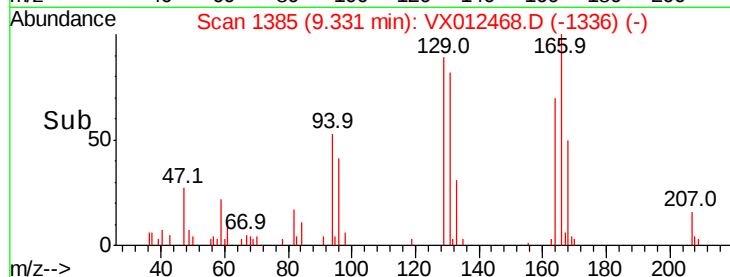
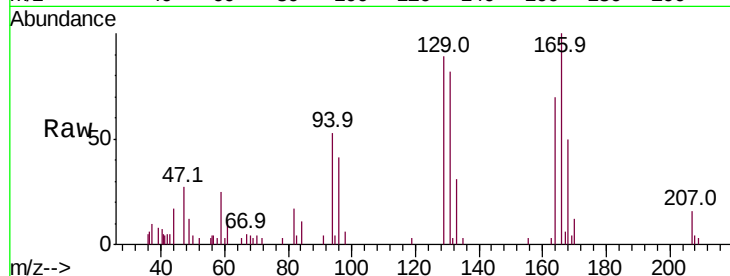
Ion Ratio Lower Upper

164 100

166 142.8 107.8 161.6

129 127.4 86.2 129.2

131 116.4 80.4 120.6



#71

Bromoform

Concen: 2.903 ug/l

RT: 10.93 min Scan# 1648

Delta R.T. 0.08 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

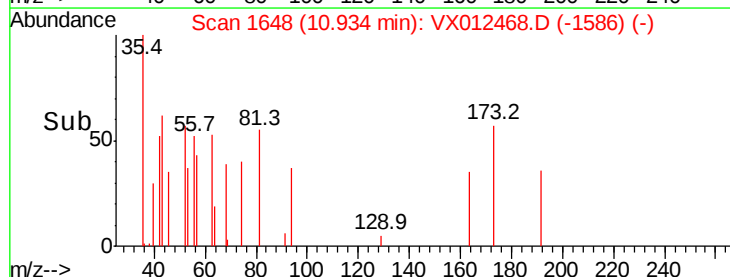
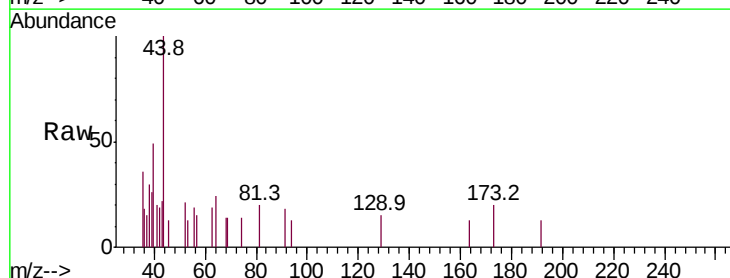
Tgt Ion:173 Resp: 55

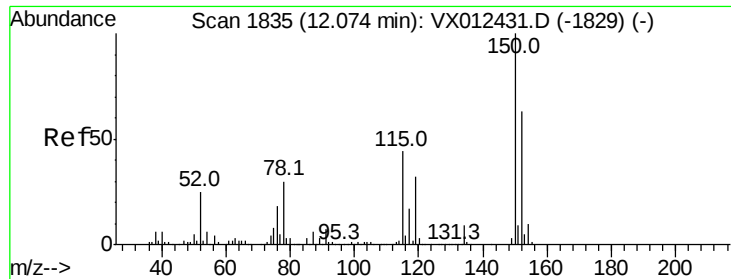
Ion Ratio Lower Upper

173 100

175 0.0 23.7 71.1#

254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

Instrument :

MSVOA_X

ClientSampleId :

DUP02-20190910DL

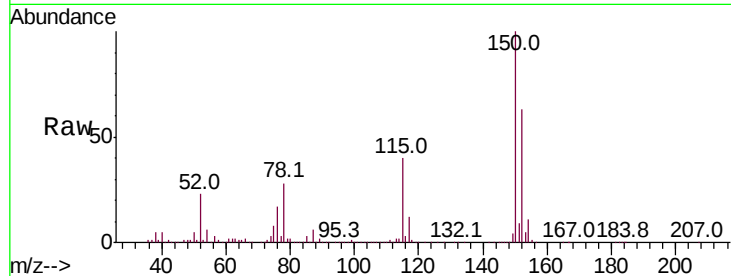
Tot Ion:152 Resp: 120749

Ion Ratio Lower Upper

152 100

115 62.6 44.1 132.3

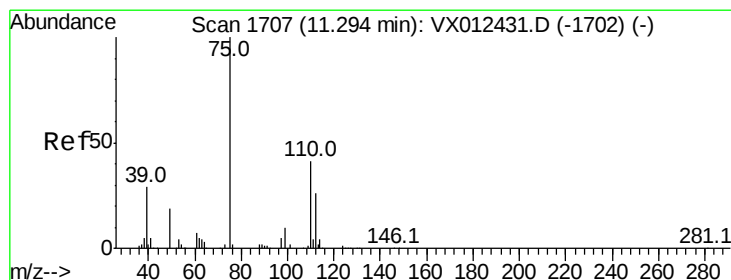
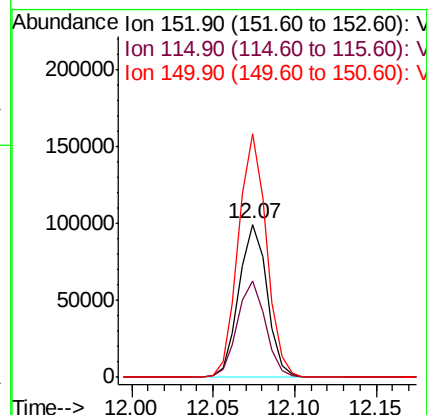
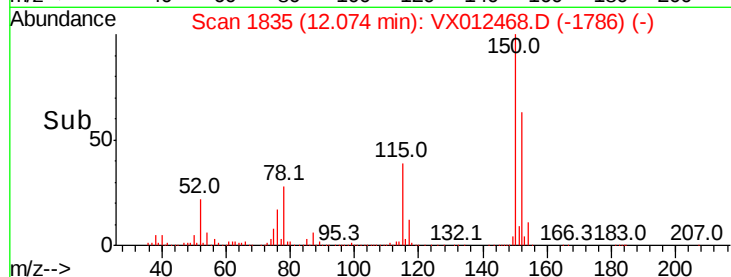
150 158.1 0.0 343.8



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: 25.414 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012468.D

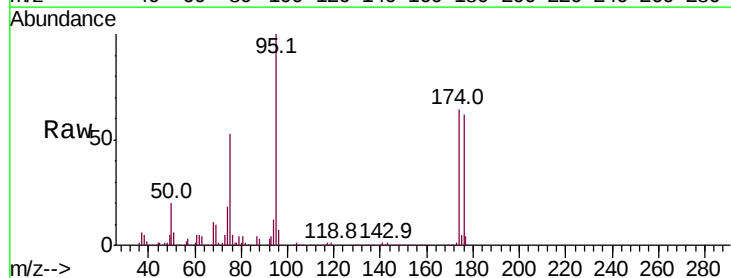
Acq: 18 Sep 2019 13:05

Tgt Ion: 75 Resp: 70490

Ion Ratio Lower Upper

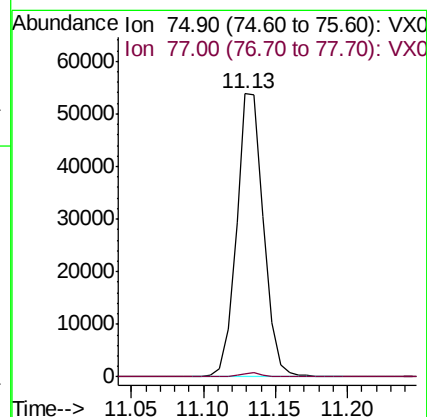
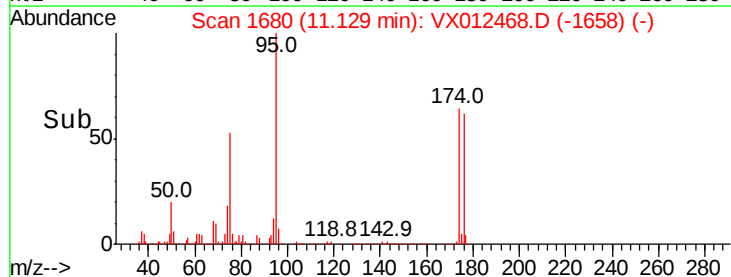
75 100

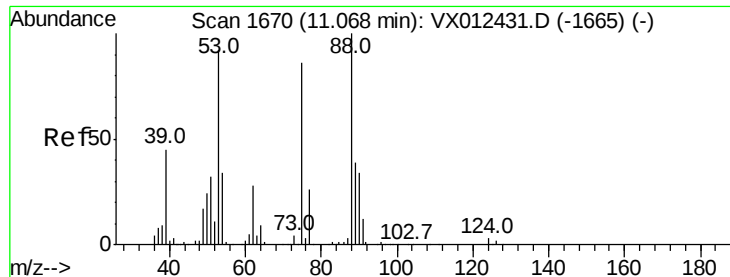
77 1.6 19.7 59.0#



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: 68.546 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

Instrument :

MSVOA_X

ClientSampleId :

DUP02-20190910DL

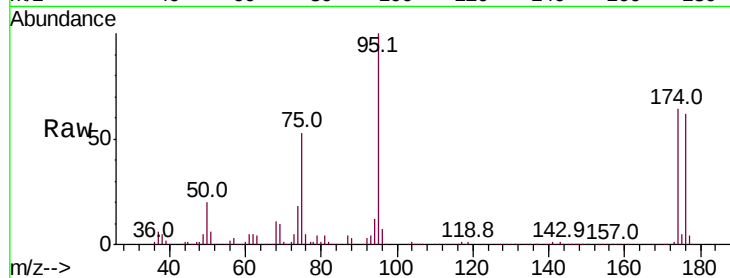
Tot Ion: 75 Resp: 70490

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

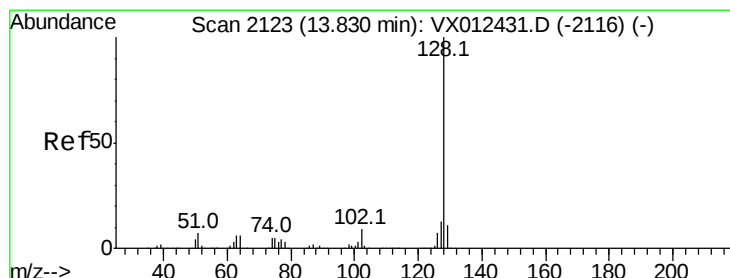
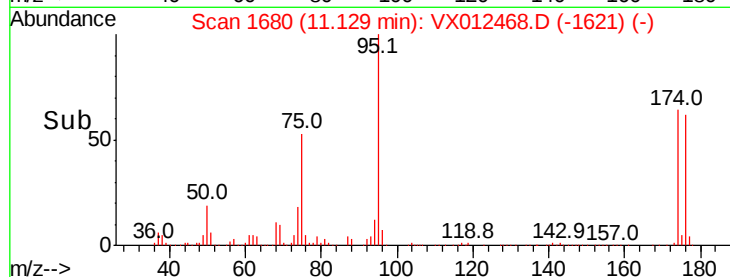
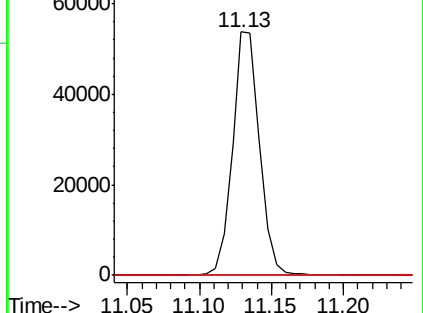
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 0.320 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX012468.D

Acq: 18 Sep 2019 13:05

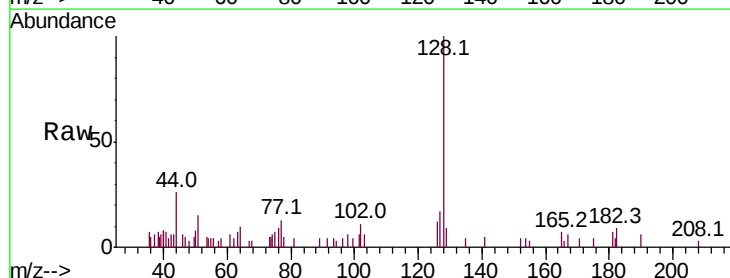
Tgt Ion: 128 Resp: 2661

Ion Ratio Lower Upper

128 100

127 22.8 10.2 15.4#

129 14.4 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

