

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100119\
 Data File : VX012741.D
 Acq On : 01 Oct 2019 18:22
 Operator : JC/SP
 Sample : K5082-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-SW-DUP01-20190926

Quant Time: Oct 02 01:48:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	157263	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	275390	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	229052	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	84139	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	110757	48.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.72%	
35) Dibromofluoromethane	5.48	113	82980	50.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.20%	
50) Toluene-d8	8.71	98	315915	50.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.04%	
62) 4-Bromofluorobenzene	11.14	95	105452	42.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.92%	

Target Compounds

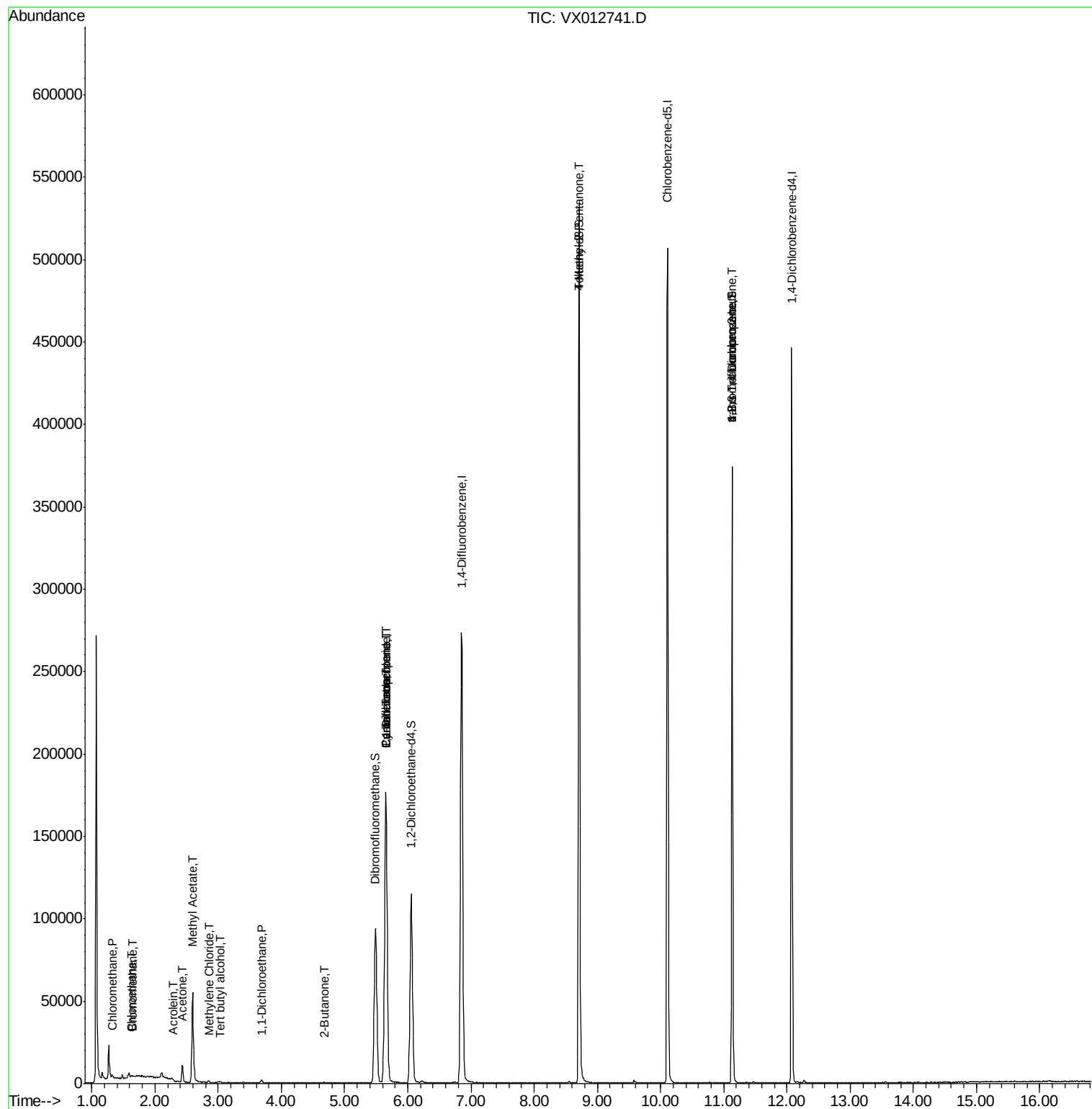
					Qvalue	
3) Chloromethane	1.32	50	915	0.450	ug/l	95
5) Bromomethane	1.64	94	341	0.430	ug/l #	46
6) Chloroethane	1.63	64	2244	1.648	ug/l #	45
11) Tert butyl alcohol	3.03	59	844	1.475	ug/l #	72
13) Acrolein	2.28	56	79	10.471	ug/l #	15
16) Acetone	2.43	43	10934	9.014	ug/l	97
18) Methyl Acetate	2.59	43	14994	5.250	ug/l #	54
20) Methylene Chloride	2.84	84	437	0.213	ug/l #	80
24) 1,1-Dichloroethane	3.69	63	2055	0.583	ug/l #	81
25) 2-Butanone	4.67	43	504	0.290	ug/l #	51
31) Cyclohexane	5.65	56	3803	1.193	ug/l #	16
36) 1,1-Dichloropropene	5.65	75	13143	4.951	ug/l #	50
38) Carbon Tetrachloride	5.65	117	16641	6.171	ug/l #	17
51) 4-Methyl-2-Pentanone	8.71	43	1476	0.461	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	52928	23.781	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	52928	68.150	ug/l #	8

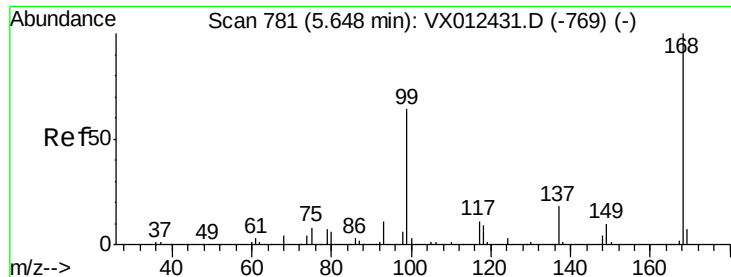
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012741.D

Acq: 01 Oct 2019 18:22

Instrument :

MSVOA_X

ClientSampleId :

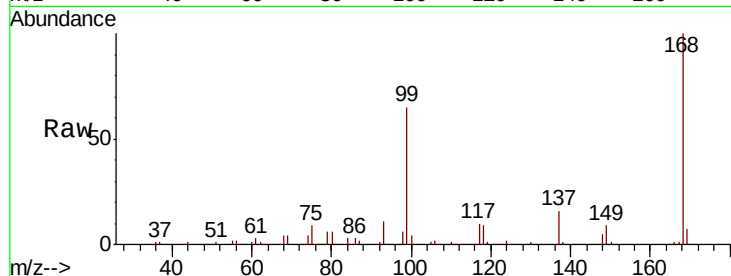
SA-SW-DUP01-20190926

Tot Ion:168 Resp: 157263

Ion Ratio Lower Upper

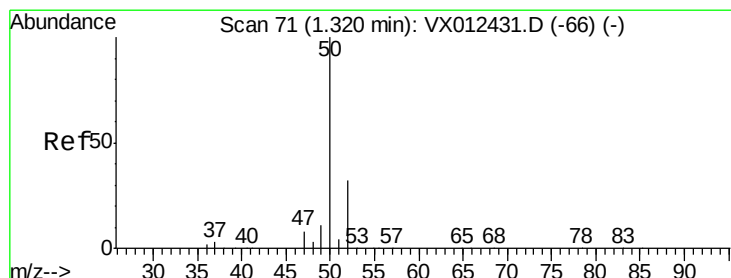
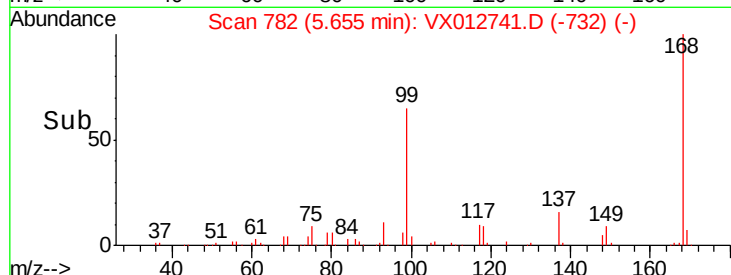
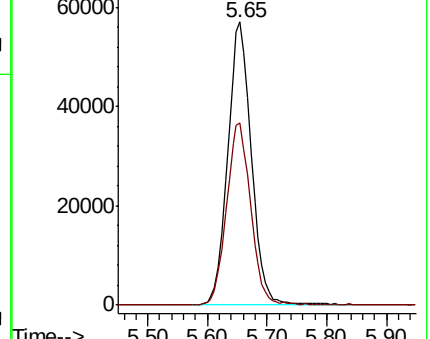
168 100

99 64.5 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.450 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012741.D

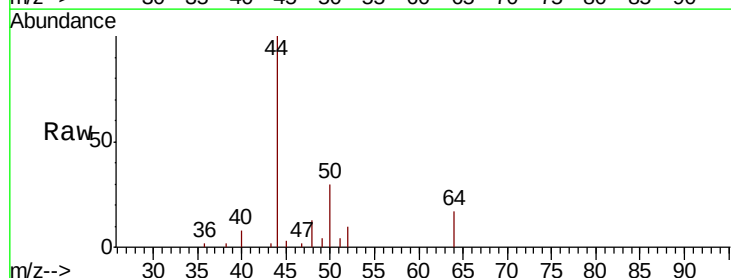
Acq: 01 Oct 2019 18:22

Tgt Ion: 50 Resp: 915

Ion Ratio Lower Upper

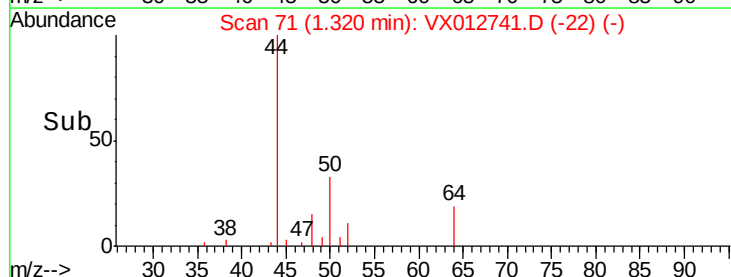
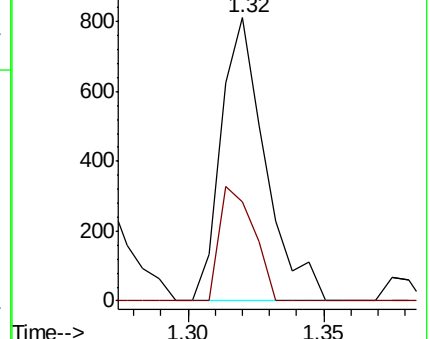
50 100

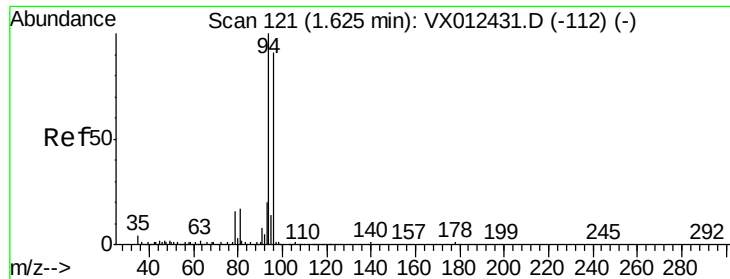
52 35.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.430 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012741.D

Acq: 01 Oct 2019 18:22

Instrument :

MSVOA_X

ClientSampleId :

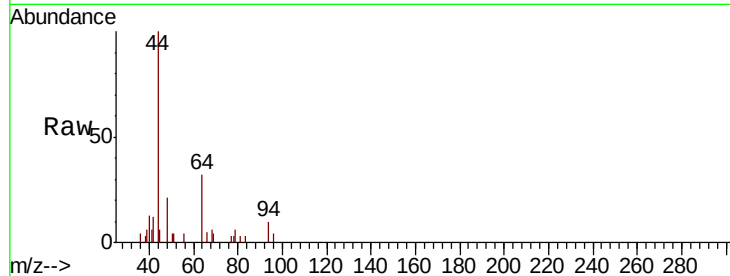
SA-SW-DUP01-20190926

Tot Ion: 94 Resp: 341

Ion Ratio Lower Upper

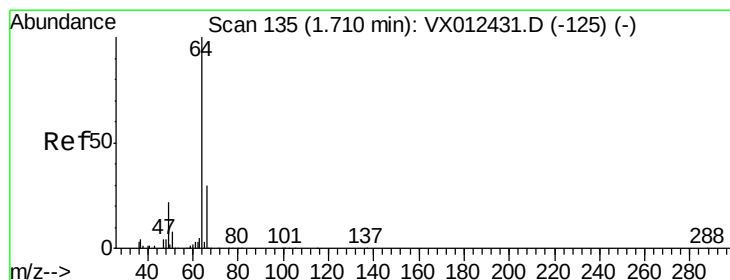
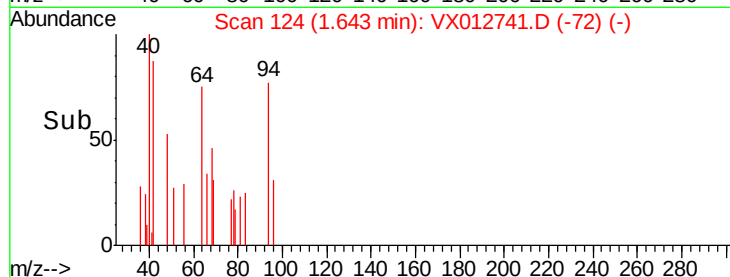
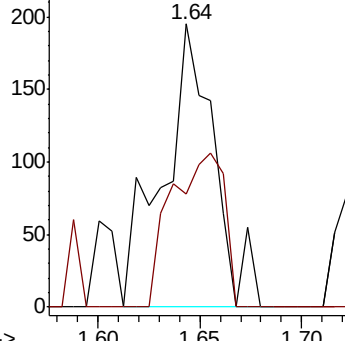
94 100

96 40.0 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.648 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.08 min

Lab File: VX012741.D

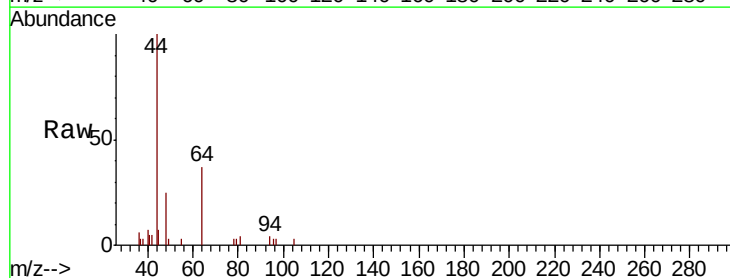
Acq: 01 Oct 2019 18:22

Tgt Ion: 64 Resp: 2244

Ion Ratio Lower Upper

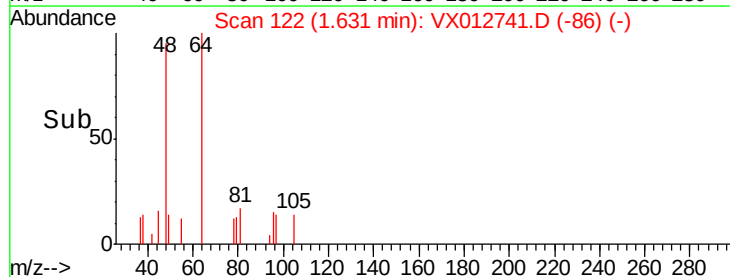
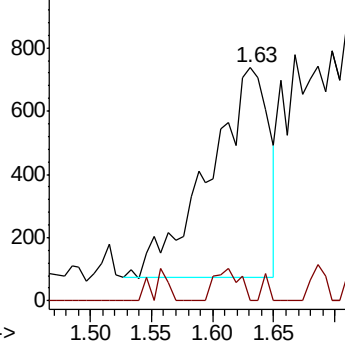
64 100

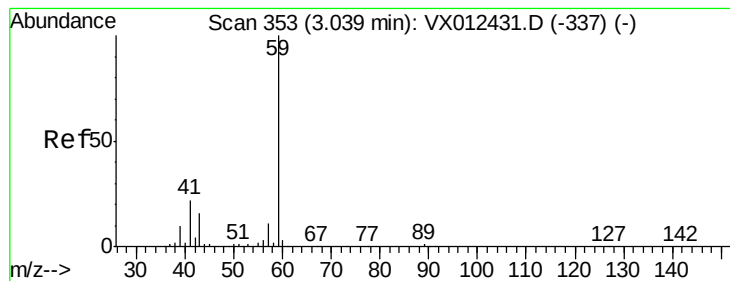
66 0.0 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



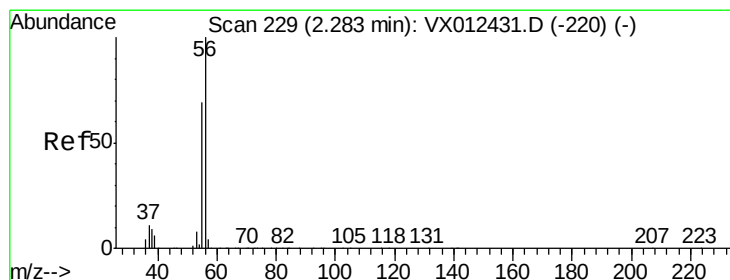
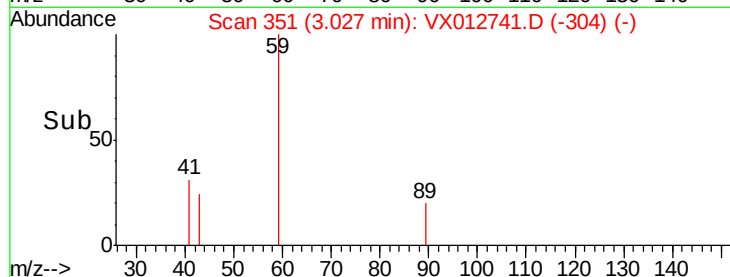
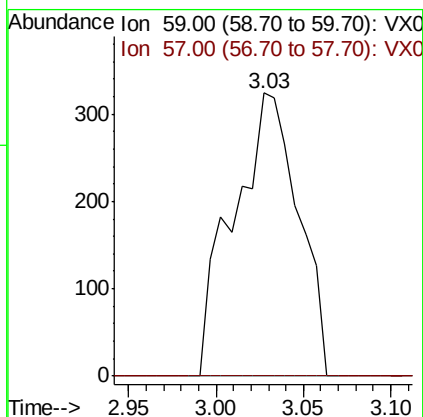
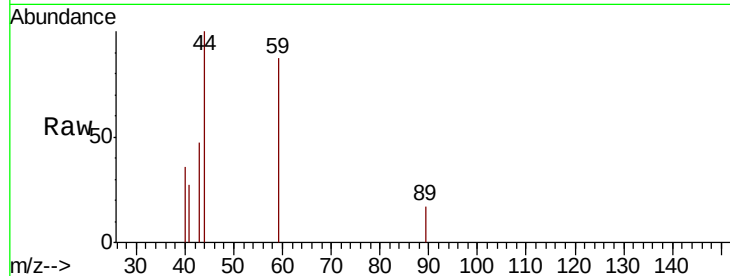


#11

Tert butyl alcohol
 Concen: 1.475 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VX012741.D
 Acq: 01 Oct 2019 18:22

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-SW-DUP01-20190926

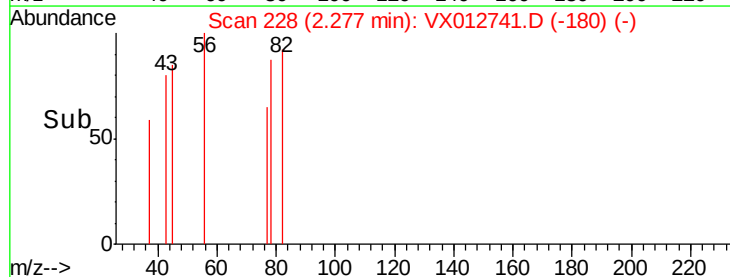
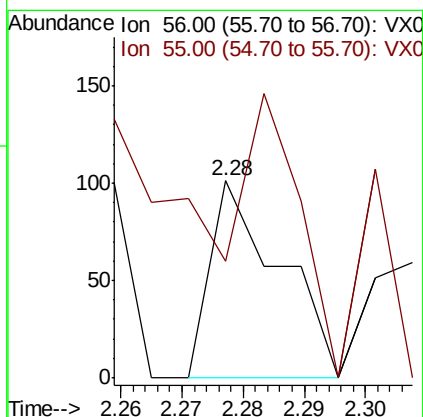
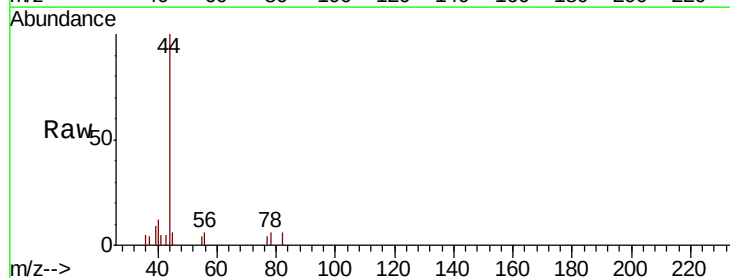
Tot Ion: 59 Resp: 844
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

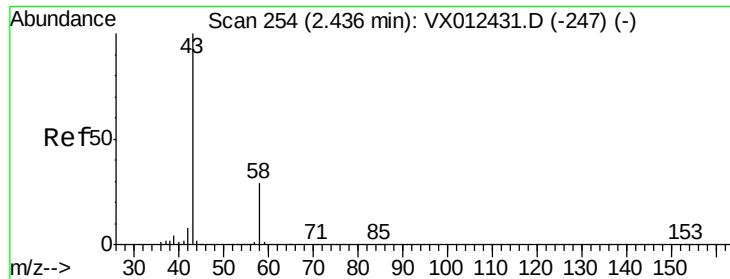


#13

Acrolein
 Concen: 10.471 ug/l
 RT: 2.28 min Scan# 228
 Delta R.T. -0.01 min
 Lab File: VX012741.D
 Acq: 01 Oct 2019 18:22

Tgt Ion: 56 Resp: 79
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.8 83.8#





#16

Acetone

Concen: 9.014 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012741.D

Acq: 01 Oct 2019 18:22

Instrument :

MSVOA_X

ClientSampleId :

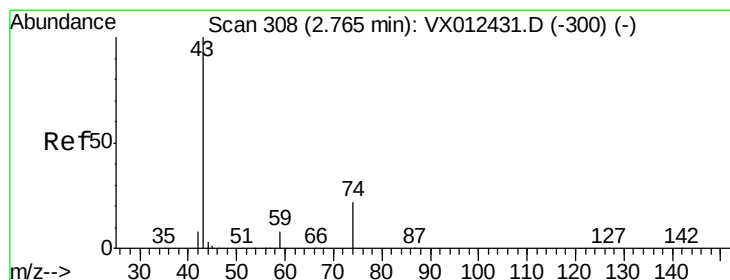
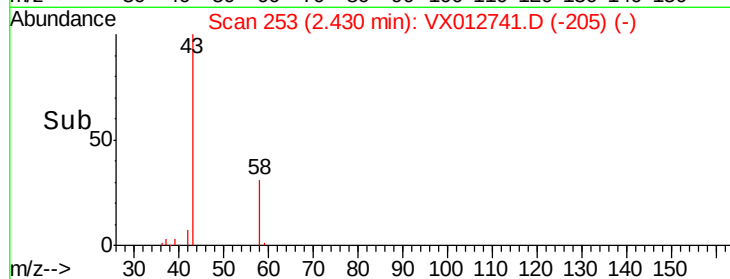
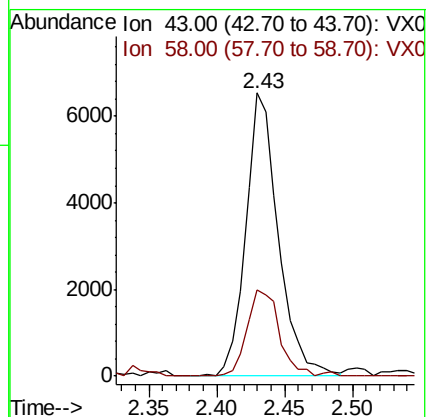
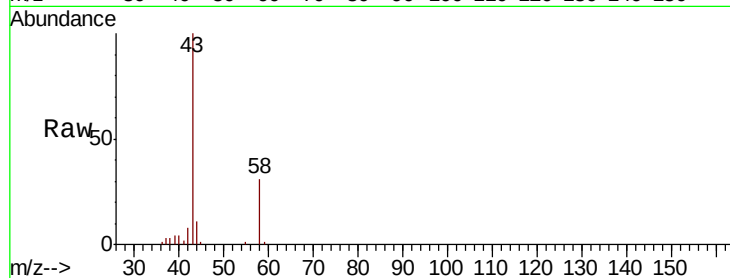
SA-SW-DUP01-20190926

Tot Ion: 43 Resp: 10934

Ion Ratio Lower Upper

43 100

58 30.6 23.3 34.9



#18

Methyl Acetate

Concen: 5.250 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012741.D

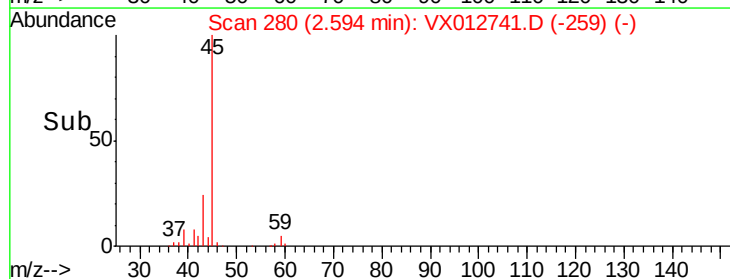
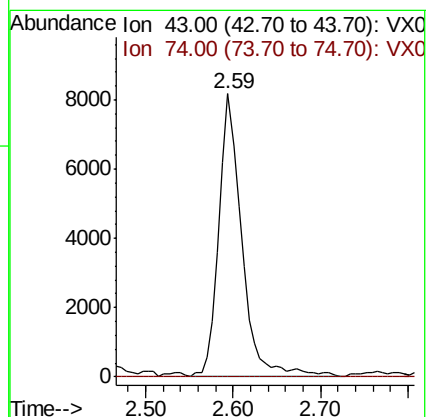
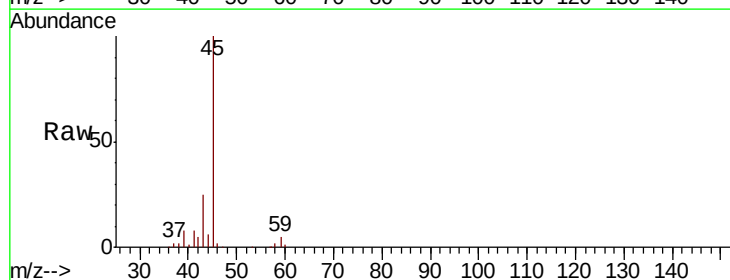
Acq: 01 Oct 2019 18:22

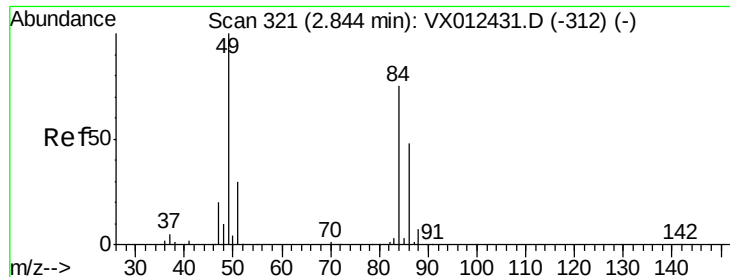
Tgt Ion: 43 Resp: 14994

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#

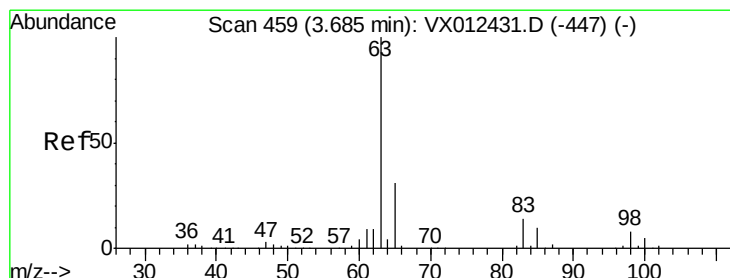
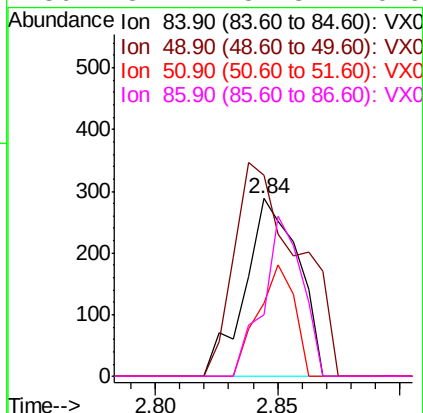
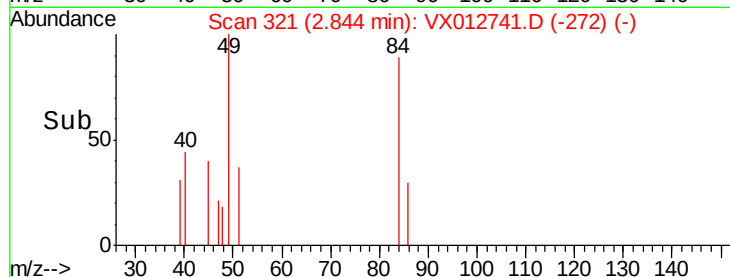
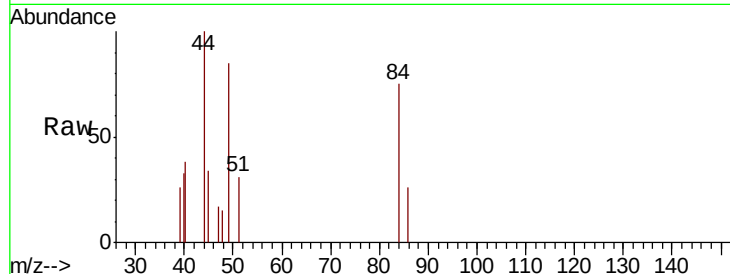




#20
Methylene Chloride
Concen: 0.213 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX012741.D
Acq: 01 Oct 2019 18:22

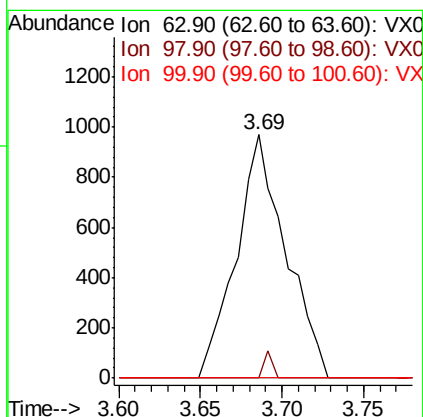
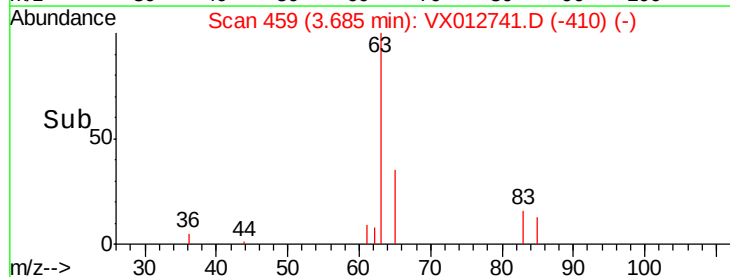
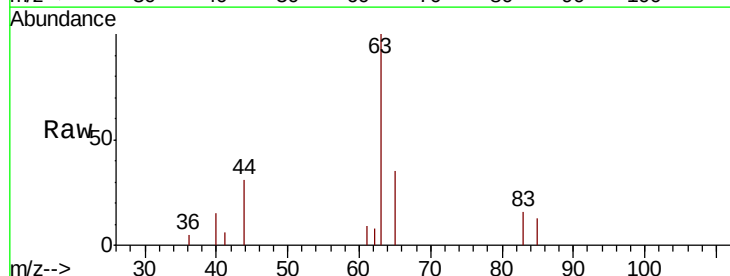
Instrument :
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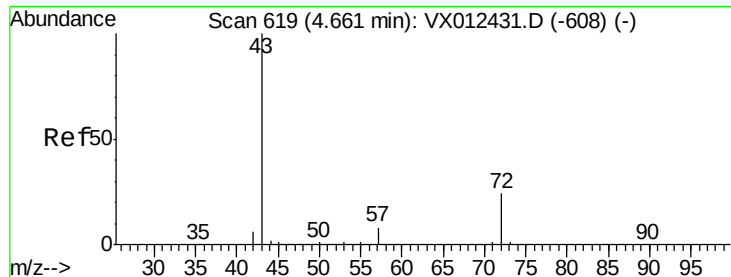
Tot Ion: 84 Resp: 437
Ion Ratio Lower Upper
84 100
49 112.8 106.8 160.2
51 41.3 32.3 48.5
86 34.4 51.3 76.9#



#24
1,1-Dichloroethane
Concen: 0.583 ug/l
RT: 3.69 min Scan# 459
Delta R.T. 0.00 min
Lab File: VX012741.D
Acq: 01 Oct 2019 18:22

Tgt Ion: 63 Resp: 2055
Ion Ratio Lower Upper
63 100
98 0.0 3.9 11.7#
100 0.0 2.3 6.9#





#25

2-Butanone

Concen: 0.290 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX012741.D

Acq: 01 Oct 2019 18:22

Instrument :

MSVOA_X

ClientSampleId :

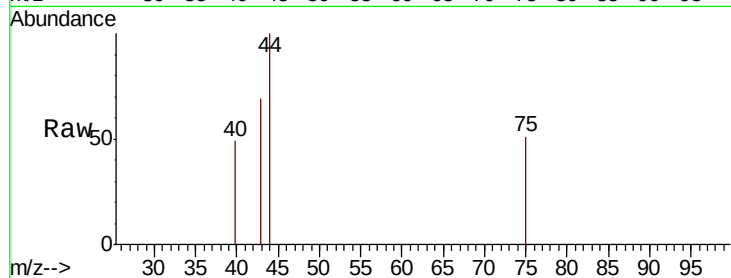
SA-SW-DUP01-20190926

Tot Ion: 43 Resp: 504

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.67

250

200

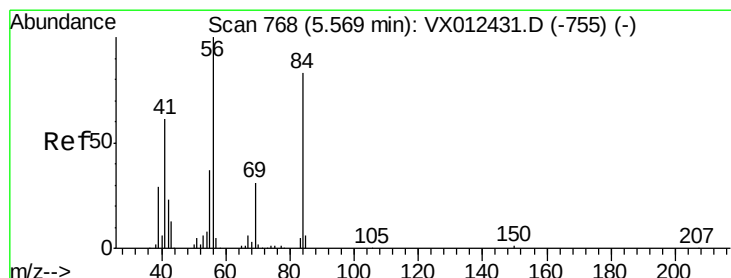
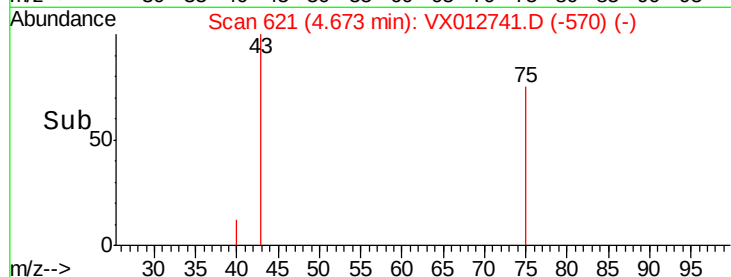
150

100

50

0

Time-->



#31

Cyclohexane

Concen: 1.193 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012741.D

Acq: 01 Oct 2019 18:22

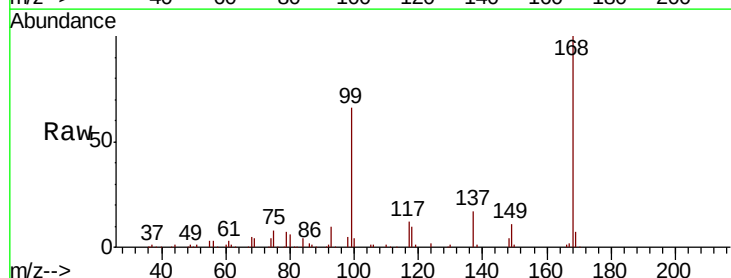
Tgt Ion: 56 Resp: 3803

Ion Ratio Lower Upper

56 100

69 133.3 25.0 37.6#

84 124.8 66.4 99.6#



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

3000

2500

2000

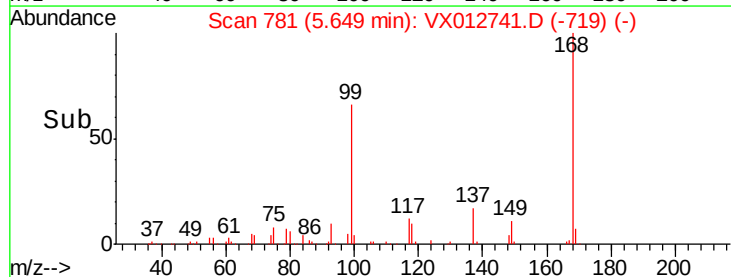
1500

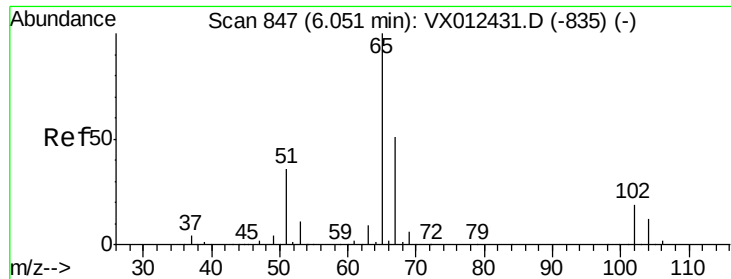
1000

500

0

Time-->

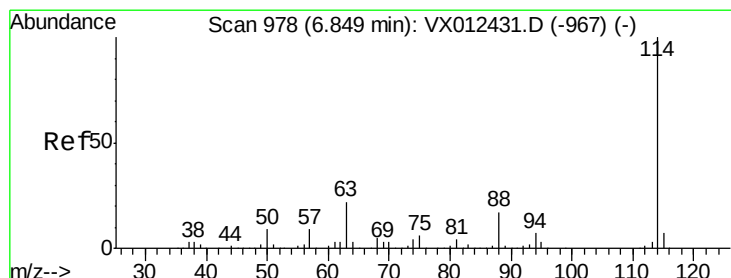
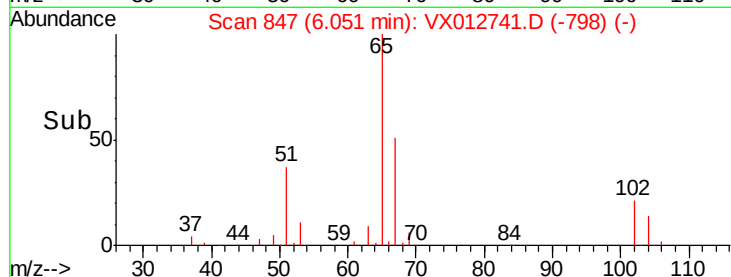
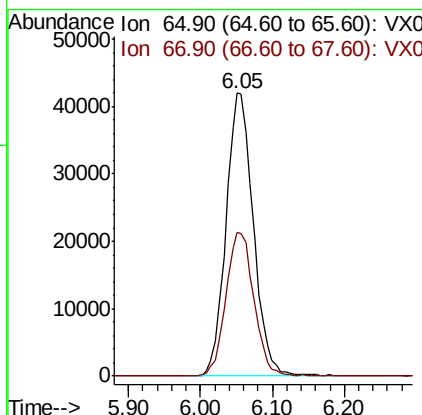
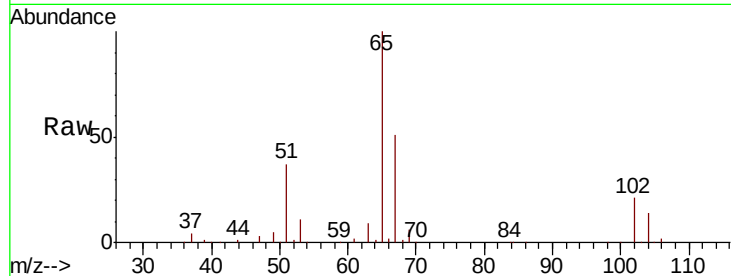




#33
 1,2-Dichloroethane-d4
 Concen: 48.364 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX012741.D
 Acq: 01 Oct 2019 18:22

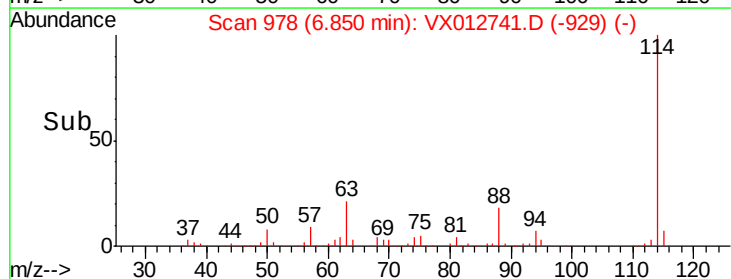
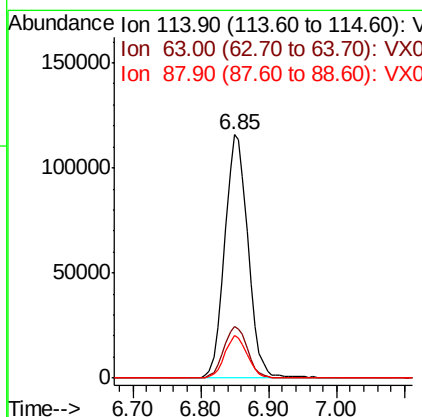
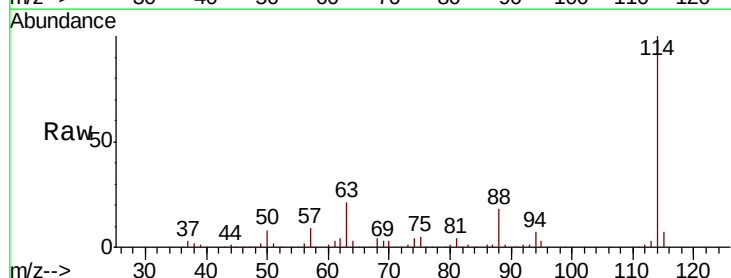
Instrument :
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 SA-SW-DUP01-20190926

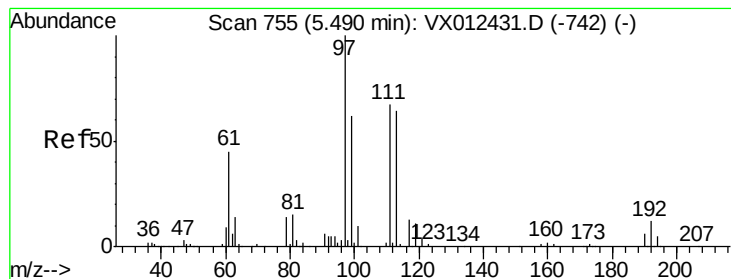
Tot Ion: 65 Resp: 110757
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012741.D
 Acq: 01 Oct 2019 18:22

Tgt Ion: 114 Resp: 275390
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 43.2
 88 17.5 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.596 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX012741.D

Acq: 01 Oct 2019 18:22

Instrument :

MSVOA_X

ClientSampleId :

SA-SW-DUP01-20190926

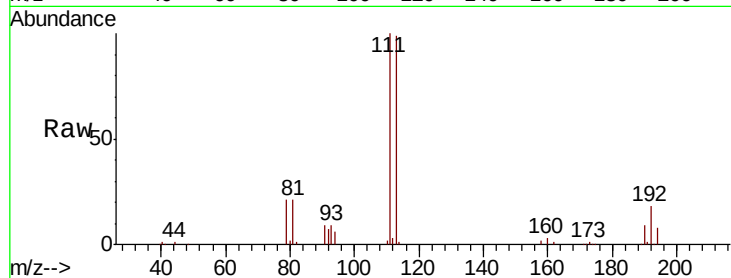
Tot Ion:113 Resp: 82980

Ion Ratio Lower Upper

113 100

111 101.5 83.4 125.2

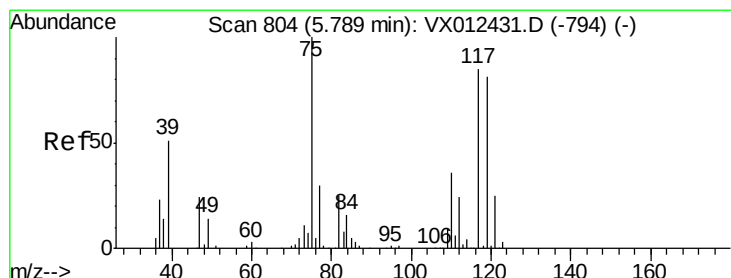
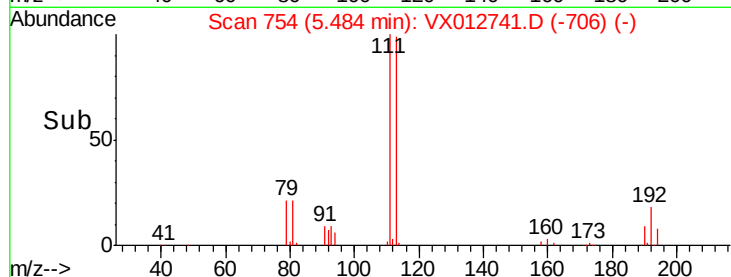
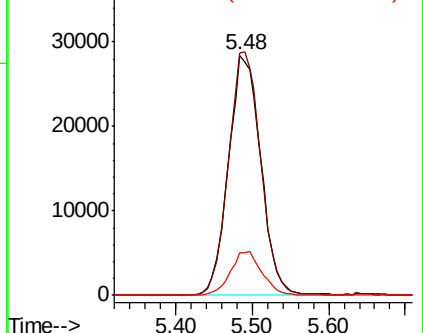
192 17.7 14.4 21.6



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: 4.951 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012741.D

Acq: 01 Oct 2019 18:22

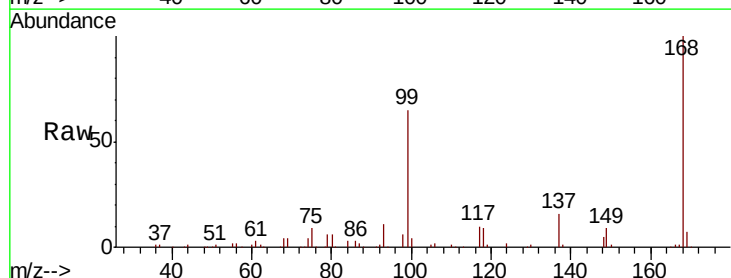
Tgt Ion: 75 Resp: 13143

Ion Ratio Lower Upper

75 100

110 8.2 16.7 50.0#

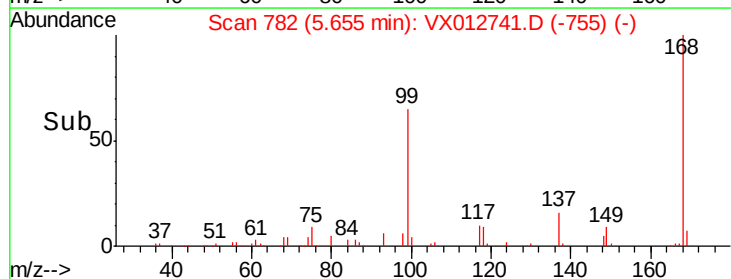
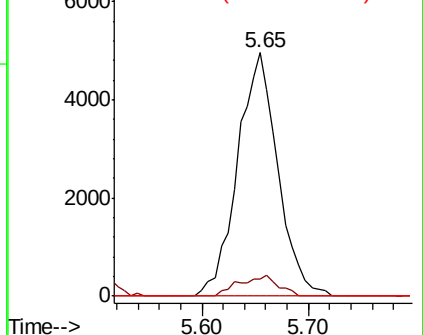
77 0.0 24.2 36.2#

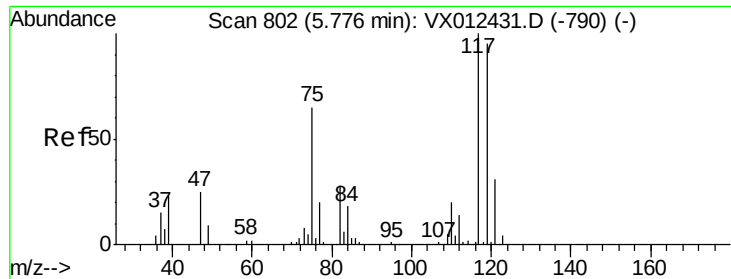


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

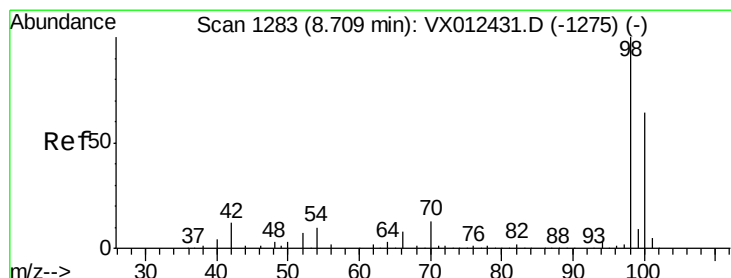
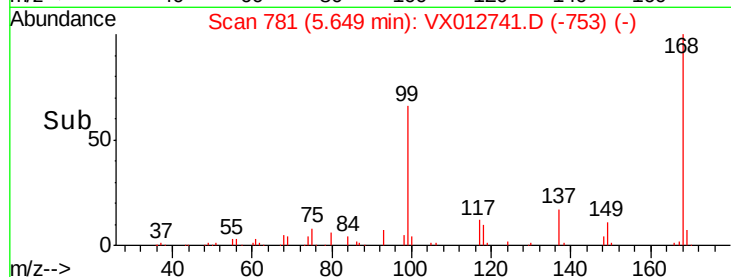
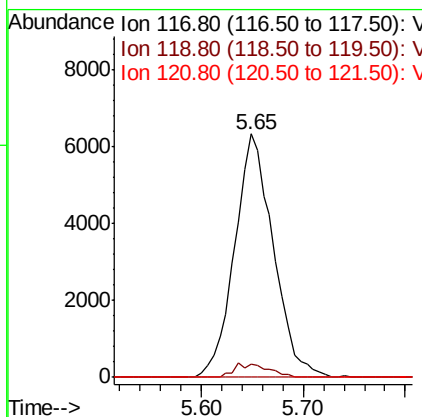
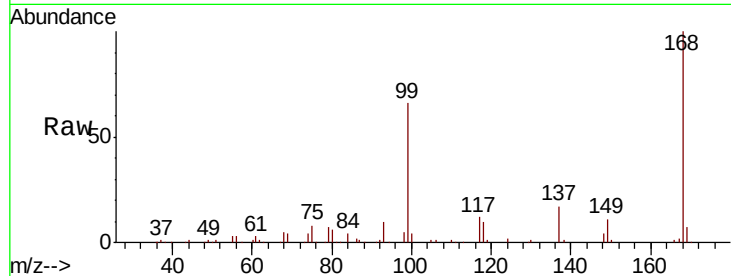




#38
Carbon Tetrachloride
Concen: 6.171 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX012741.D
Acq: 01 Oct 2019 18:22

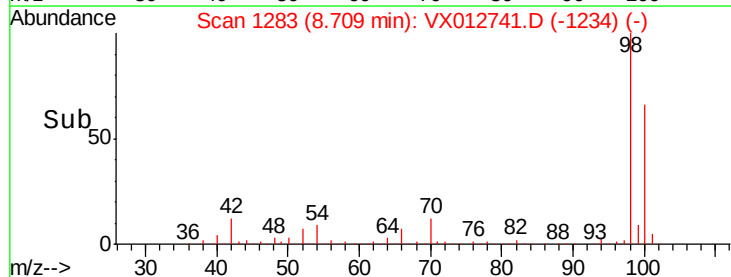
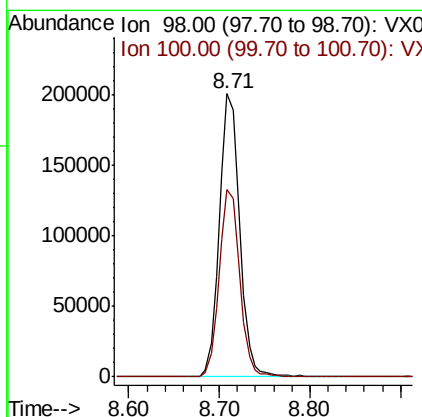
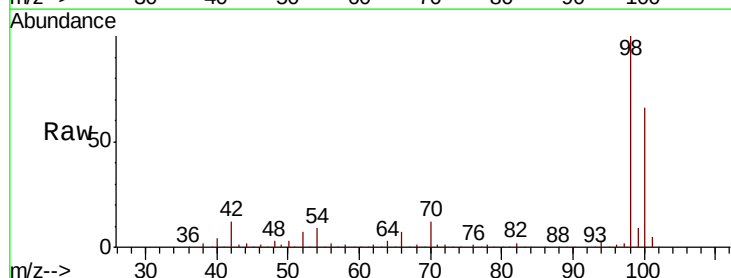
Instrument :
MSVOA_X
ClientSampleId :
SA-SW-DUP01-20190926

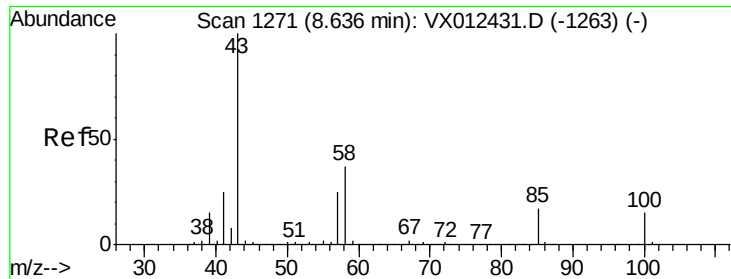
Tot Ion:117 Resp: 16641
Ion Ratio Lower Upper
117 100
119 5.4 75.7 113.5#
121 0.0 24.2 36.4#



#50
Toluene-d8
Concen: 50.018 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012741.D
Acq: 01 Oct 2019 18:22

Tgt Ion: 98 Resp: 315915
Ion Ratio Lower Upper
98 100
100 67.0 53.4 80.2





#51

4-Methyl-2-Pentanone

Concen: 0.461 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012741.D

Acq: 01 Oct 2019 18:22

Instrument :

MSVOA_X

ClientSampleId :

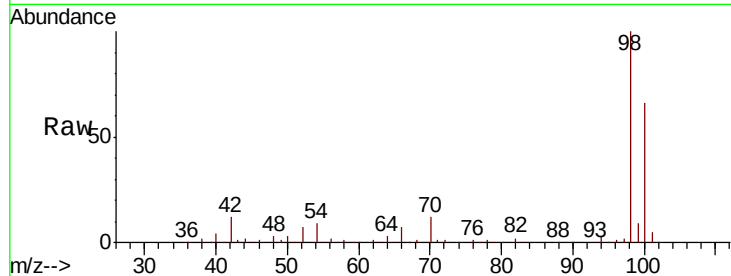
SA-SW-DUP01-20190926

Tot Ion: 43 Resp: 1476

Ion Ratio Lower Upper

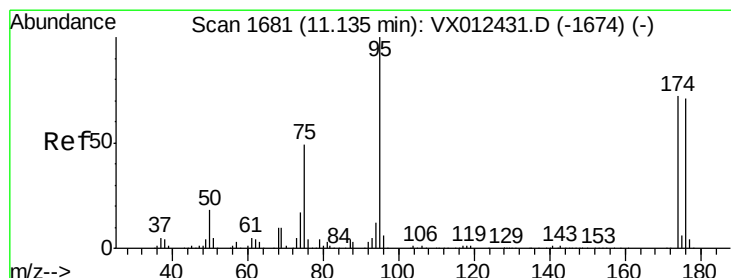
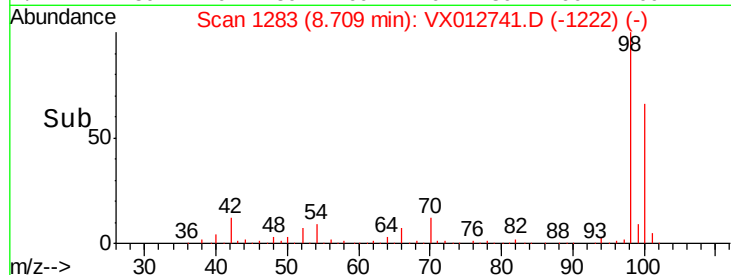
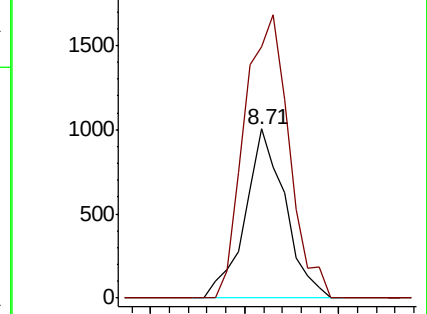
43 100

58 186.6 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 42.462 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012741.D

Acq: 01 Oct 2019 18:22

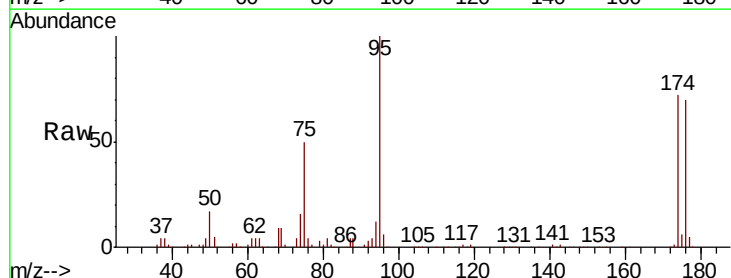
Tgt Ion: 95 Resp: 105452

Ion Ratio Lower Upper

95 100

174 68.6 0.0 140.0

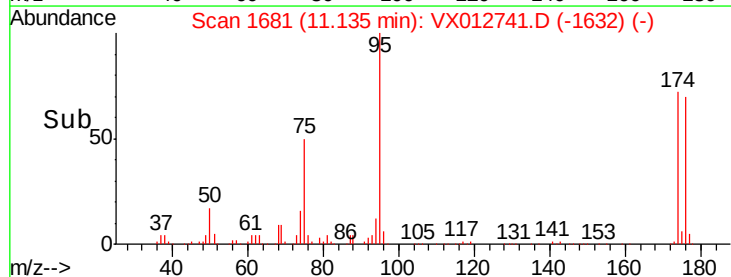
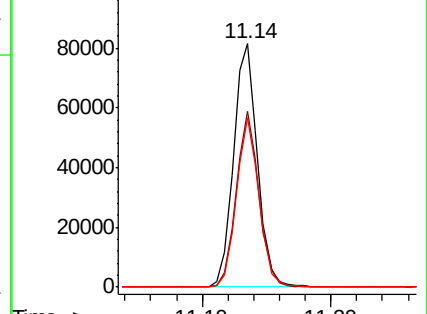
176 65.8 0.0 135.4

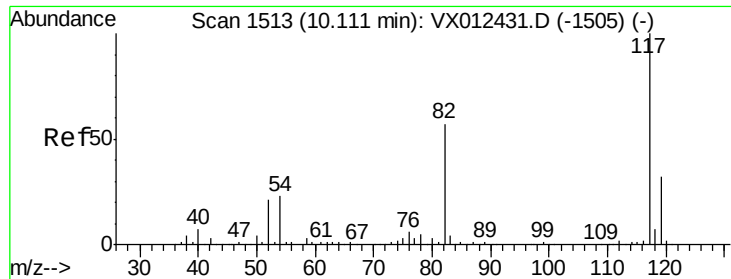


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

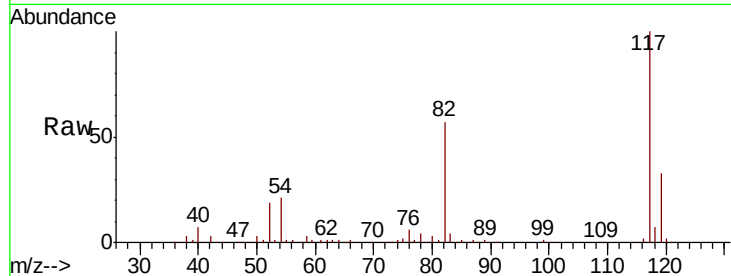




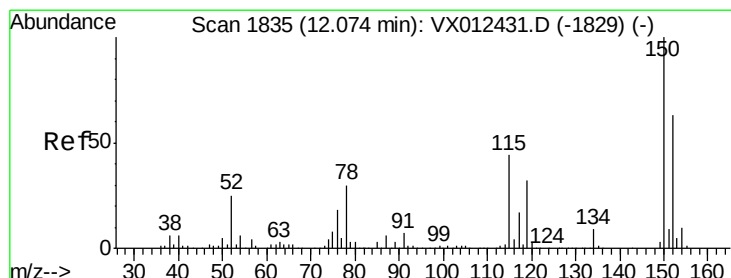
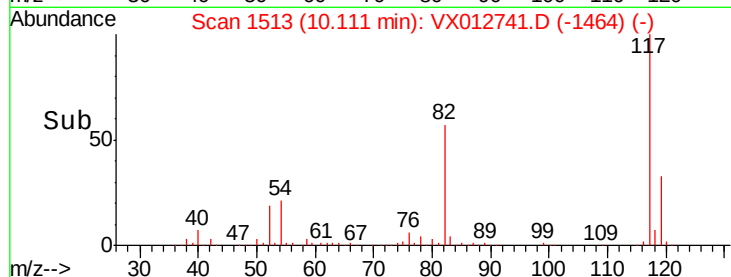
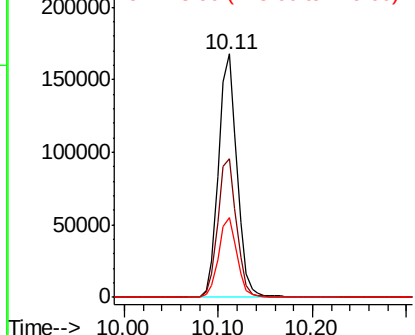
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012741.D
Acq: 01 Oct 2019 18:22

Instrument :
MSVOA_X
ClientSampleId :
SA-SW-DUP01-20190926

Tot Ion:117 Resp: 229052
Ion Ratio Lower Upper
117 100
82 57.0 45.9 68.9
119 32.6 25.3 37.9

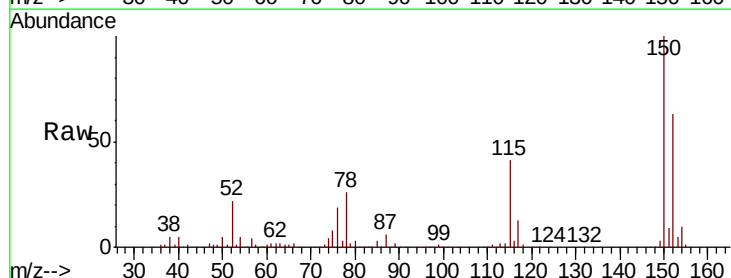


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

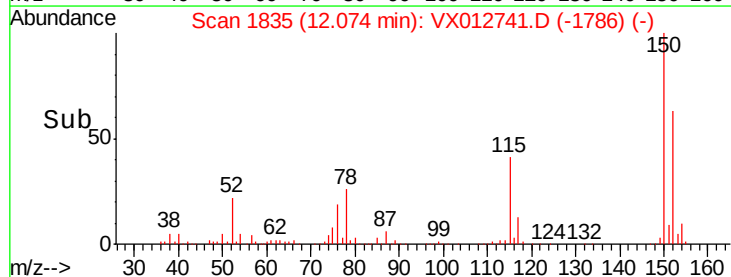
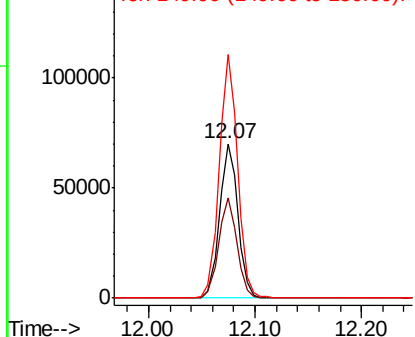


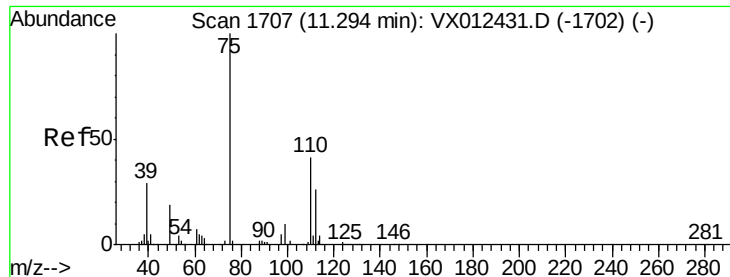
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012741.D
Acq: 01 Oct 2019 18:22

Tgt Ion:152 Resp: 84139
Ion Ratio Lower Upper
152 100
115 64.6 44.1 132.3
150 157.1 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: 23.781 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012741.D

Acq: 01 Oct 2019 18:22

Instrument :

MSVOA_X

ClientSampleId :

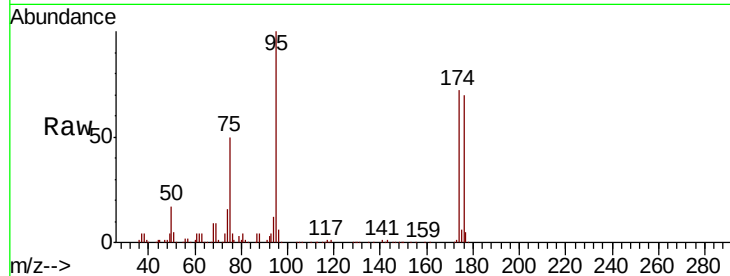
SA-SW-DUP01-20190926

Tot Ion: 75 Resp: 52928

Ion Ratio Lower Upper

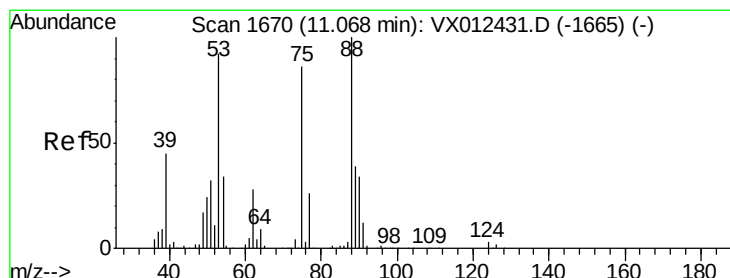
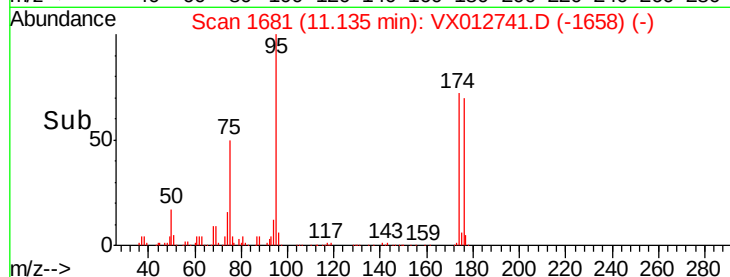
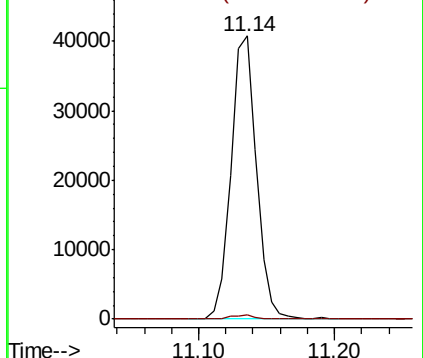
75 100

77 1.3 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: 68.150 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012741.D

Acq: 01 Oct 2019 18:22

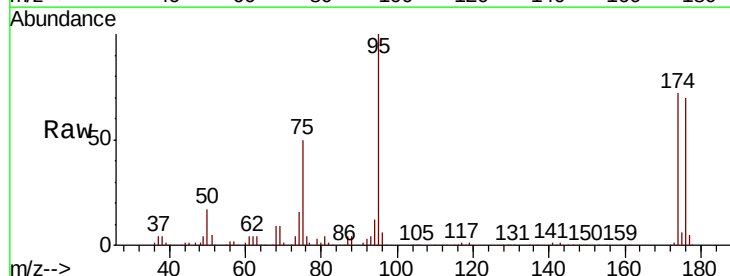
Tgt Ion: 75 Resp: 52928

Ion Ratio Lower Upper

75 100

53 0.0 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

