

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX092419\
 Data File : VX012641.D
 Acq On : 24 Sep 2019 18:27
 Operator : JC/SP
 Sample : K5013-05RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0545RE

Quant Time: Sep 25 04:38:57 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	159873	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	275191	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	231544	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	81331	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	116331	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
35) Dibromofluoromethane	5.49	113	84036	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
50) Toluene-d8	8.71	98	326752	51.77	ug/l	0.00
Spiked Amount			Recovery	=	103.54%	
62) 4-Bromofluorobenzene	11.14	95	103984	41.90	ug/l	0.00
Spiked Amount			Recovery	=	83.80%	

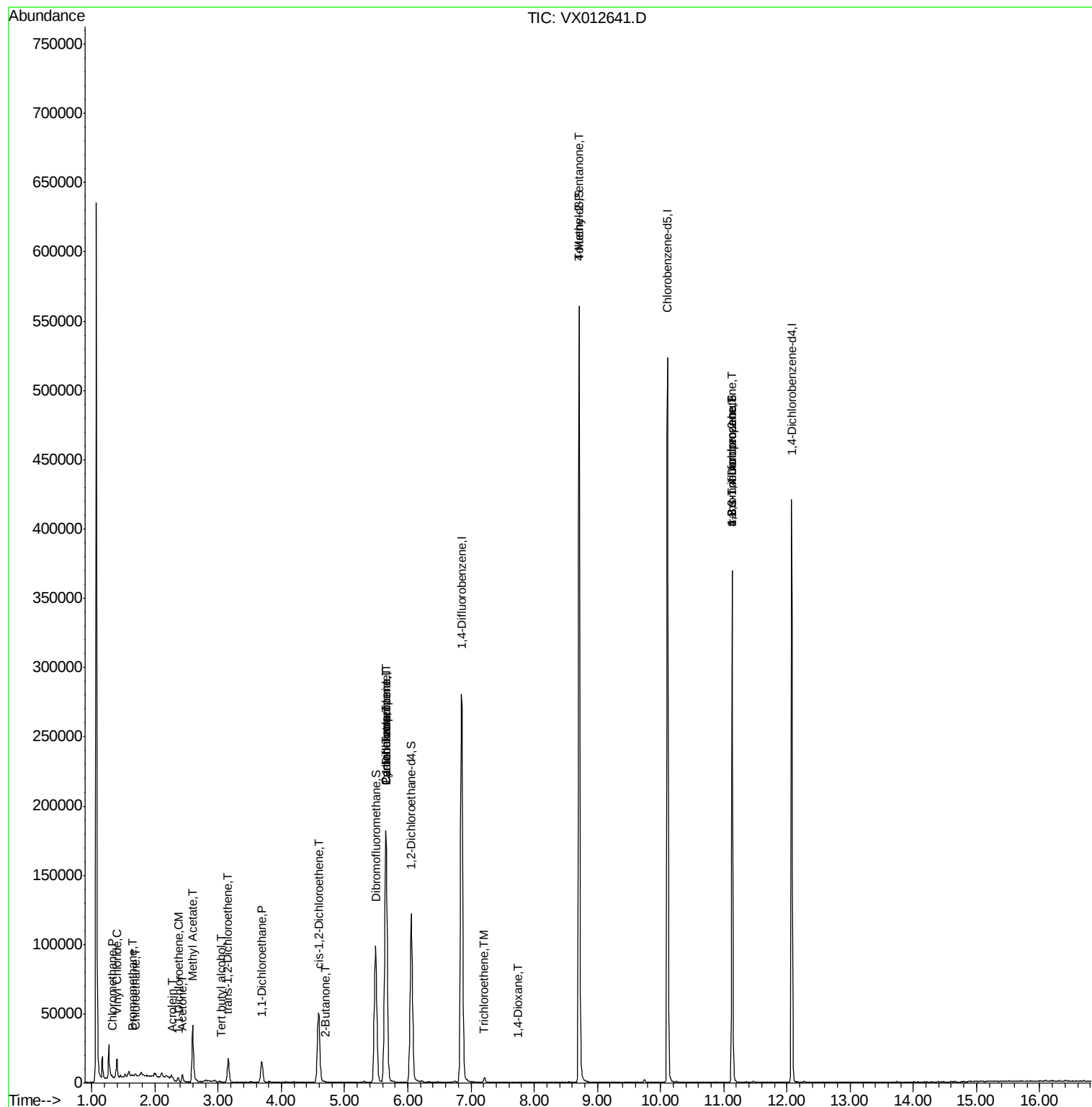
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	685	0.332	ug/l #	74
4) Vinyl Chloride	1.40	62	4121	2.008	ug/l	94
5) Bromomethane	1.64	94	211	0.261	ug/l #	70
6) Chloroethane	1.69	64	615	0.444	ug/l #	45
11) Tert butyl alcohol	3.04	59	353	0.607	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	956	0.556	ug/l	90
13) Acrolein	2.27	56	184	10.778	ug/l #	1
16) Acetone	2.43	43	5527	4.482	ug/l	99
18) Methyl Acetate	2.59	43	11832	4.075	ug/l #	54
21) trans-1,2-Dichloroethene	3.16	96	6575	3.453	ug/l	96
24) 1,1-Dichloroethane	3.69	63	17165	4.792	ug/l	98
25) 2-Butanone	4.69	43	585	0.331	ug/l #	51
27) cis-1,2-Dichloroethene	4.59	96	30714	13.900	ug/l	85
31) Cyclohexane	5.65	56	4219	1.302	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13990	5.274	ug/l #	52
38) Carbon Tetrachloride	5.65	117	18837	6.991	ug/l #	16
44) Trichloroethene	7.21	130	1471	0.737	ug/l	75
49) 1,4-Dioxane	7.74	88	54	0.957	ug/l #	1
51) 4-Methyl-2-Pentanone	8.71	43	1391	0.435	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	54162	25.175	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	54162	72.146	ug/l #	8

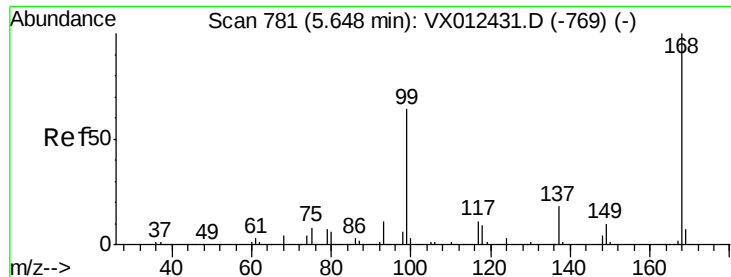
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012641.D

Acq: 24 Sep 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

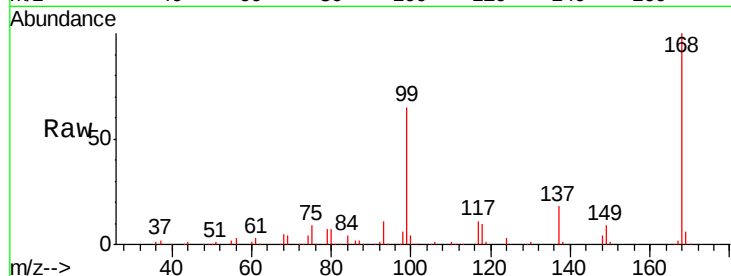
S49-0545RE

Tgt Ion:168 Resp: 159873

Ion Ratio Lower Upper

168 100

99 64.8 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

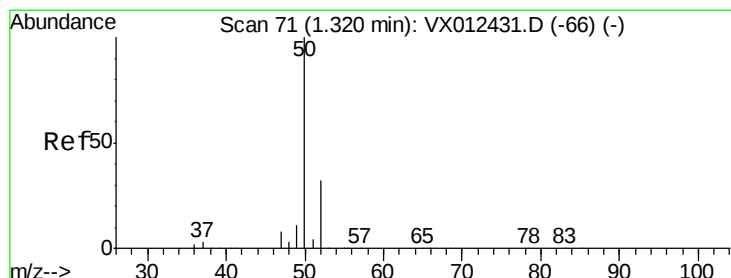
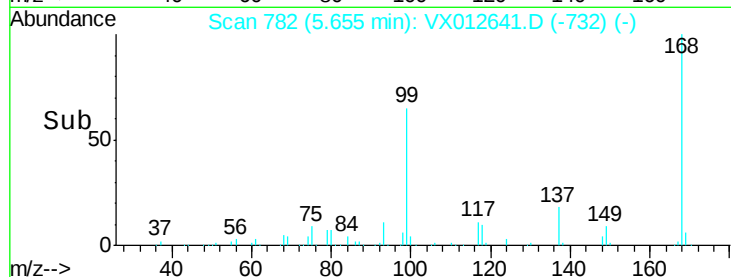
60000

40000

20000

0

Time--> 5.50 5.60 5.70



#3

Chloromethane

Concen: 0.332 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012641.D

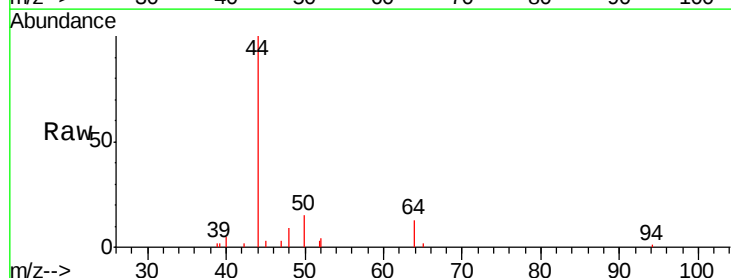
Acq: 24 Sep 2019 18:27

Tgt Ion: 50 Resp: 685

Ion Ratio Lower Upper

50 100

52 46.8 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

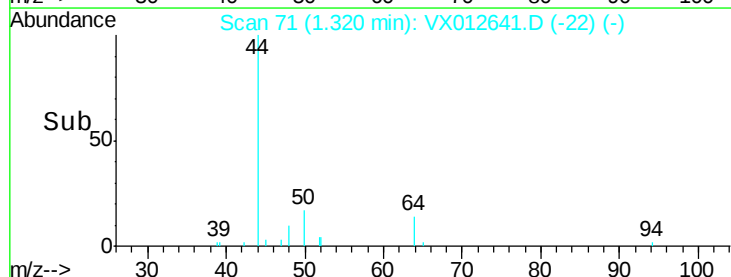
300

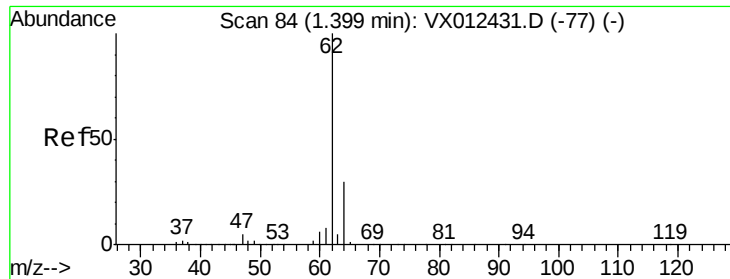
200

100

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 2.008 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012641.D

Acq: 24 Sep 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

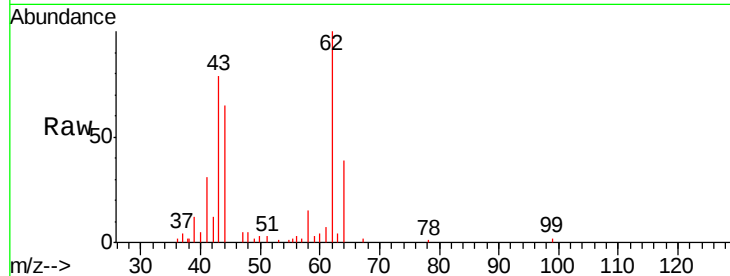
S49-0545RE

Tgt Ion: 62 Resp: 4121

Ion Ratio Lower Upper

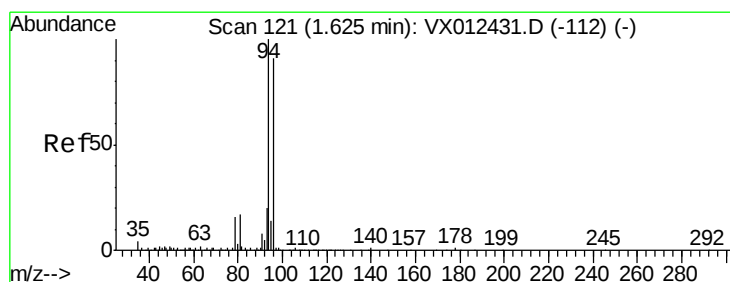
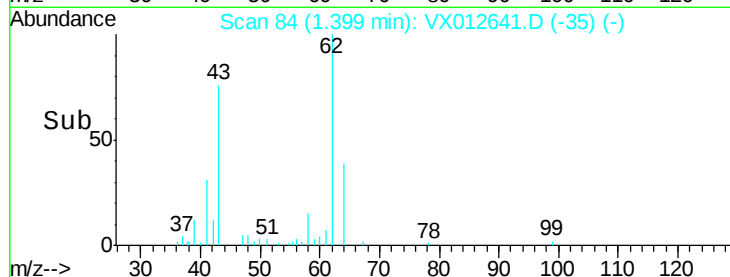
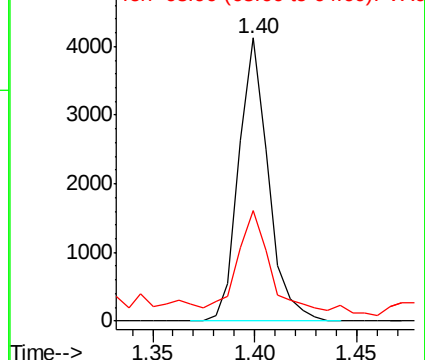
62 100

64 33.6 24.2 36.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.261 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012641.D

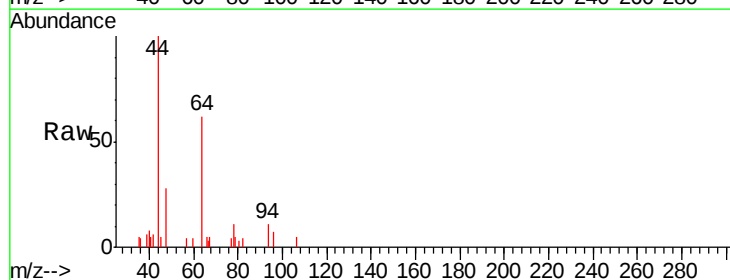
Acq: 24 Sep 2019 18:27

Tgt Ion: 94 Resp: 211

Ion Ratio Lower Upper

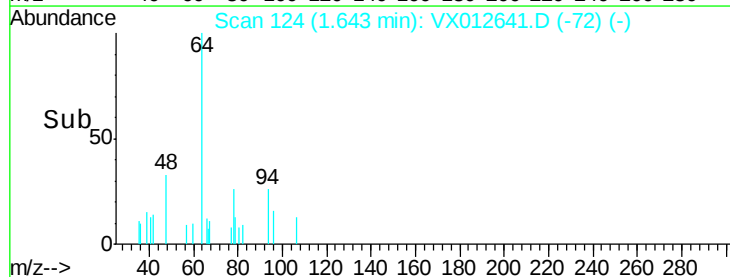
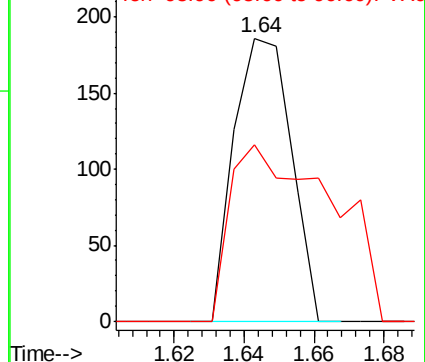
94 100

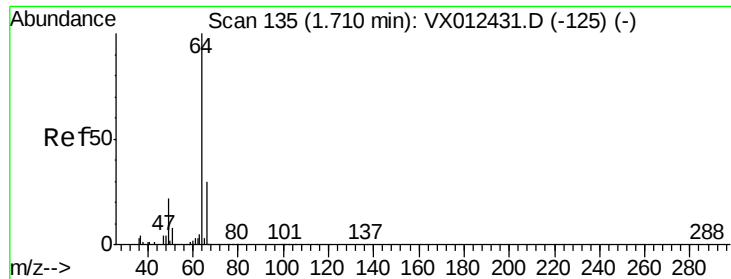
96 62.4 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.444 ug/l

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX012641.D

Acq: 24 Sep 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

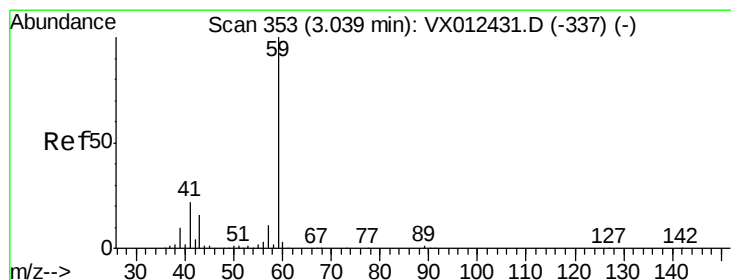
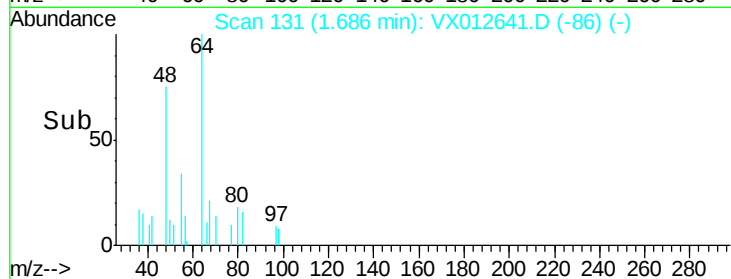
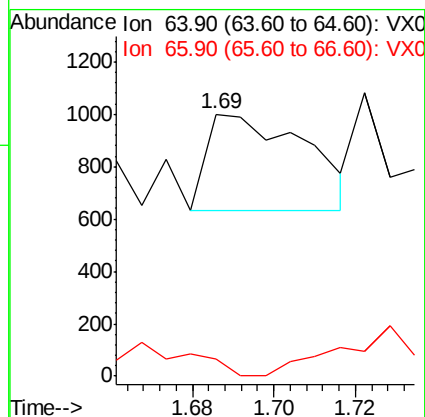
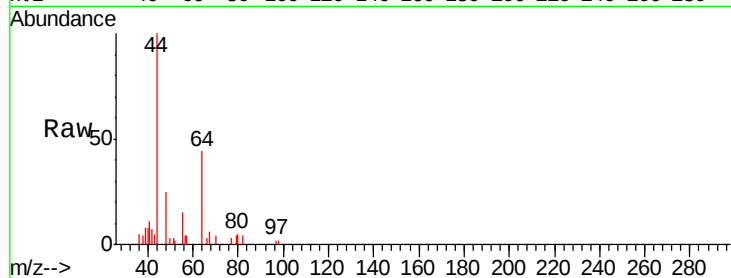
S49-0545RE

Tgt Ion: 64 Resp: 615

Ion Ratio Lower Upper

64 100

66 0.0 24.0 36.0#



#11

Tert butyl alcohol

Concen: 0.607 ug/l

RT: 3.04 min Scan# 353

Delta R.T. 0.00 min

Lab File: VX012641.D

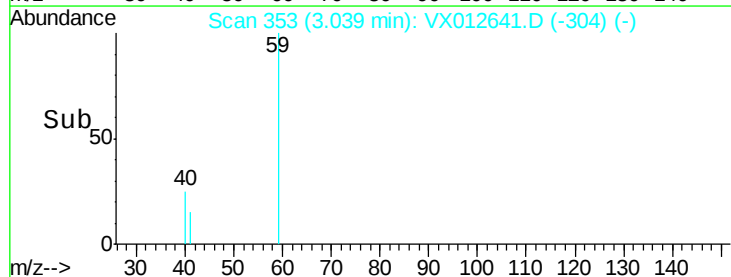
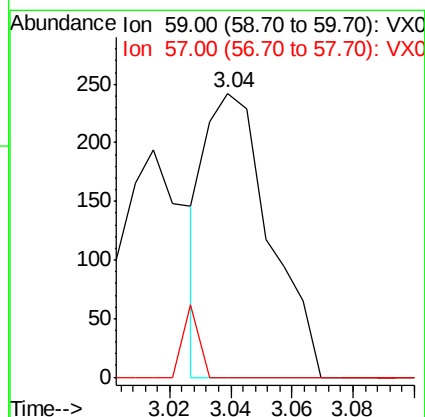
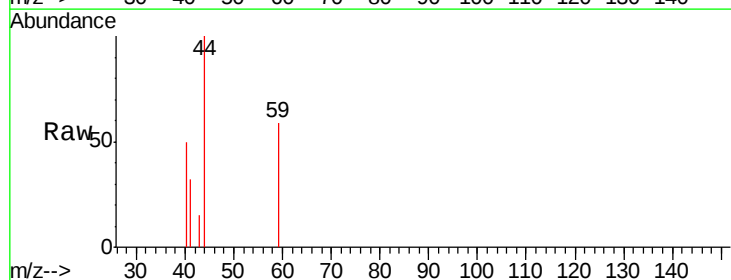
Acq: 24 Sep 2019 18:27

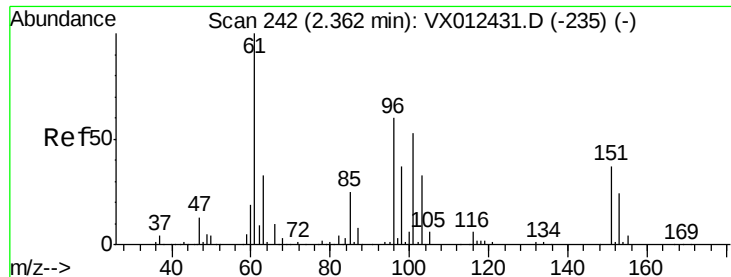
Tgt Ion: 59 Resp: 353

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





#12

1,1-Dichloroethene

Concen: 0.556 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX012641.D

Acq: 24 Sep 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

S49-0545RE

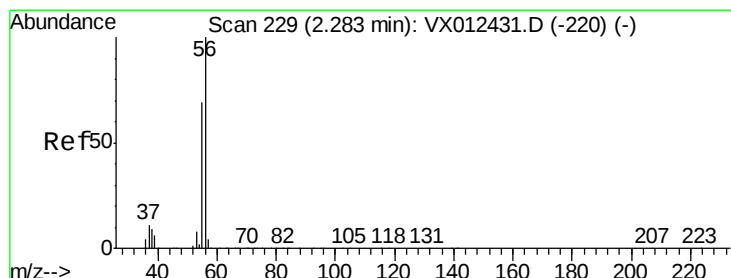
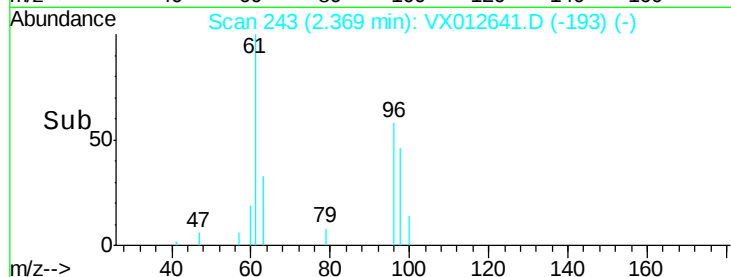
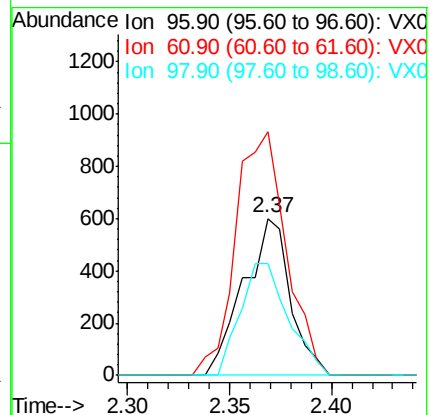
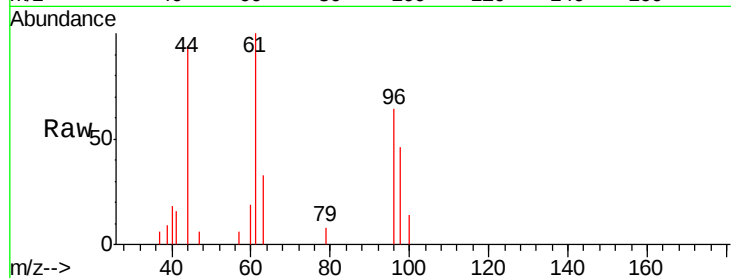
Tgt Ion: 96 Resp: 956

Ion Ratio Lower Upper

96 100

61 155.3 133.8 200.6

98 71.5 49.9 74.9



#13

Acrolein

Concen: 10.778 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX012641.D

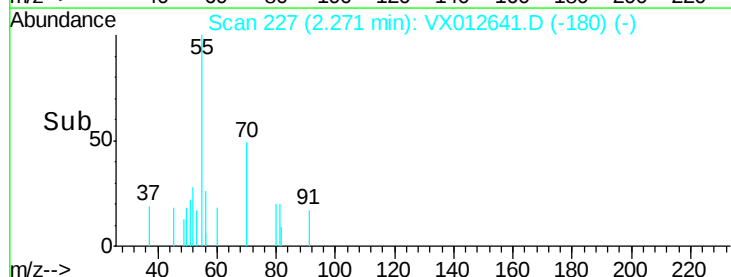
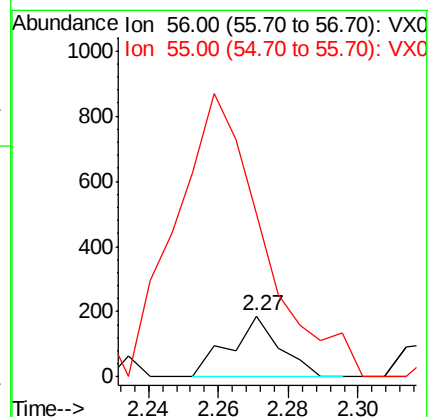
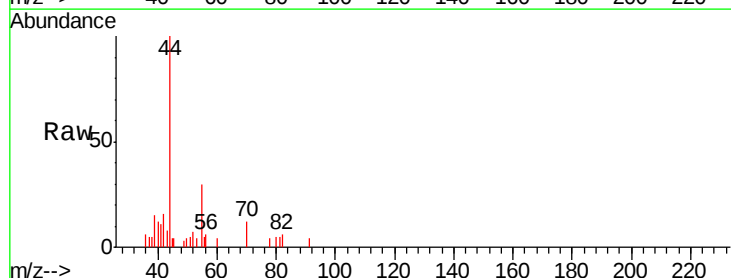
Acq: 24 Sep 2019 18:27

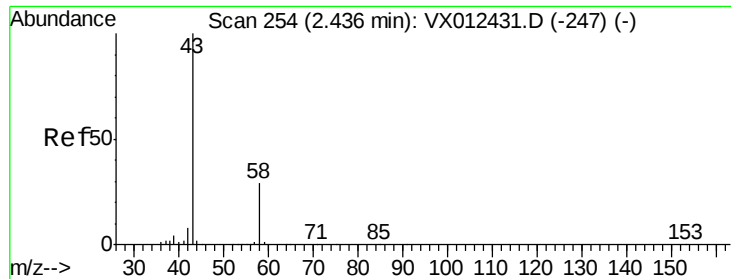
Tgt Ion: 56 Resp: 184

Ion Ratio Lower Upper

56 100

55 819.0 55.8 83.8#





#16

Acetone

Concen: 4.482 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012641.D

Acq: 24 Sep 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

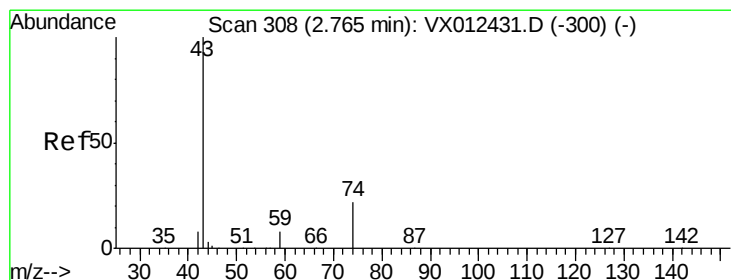
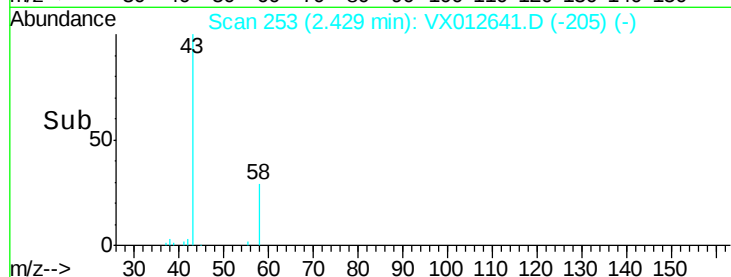
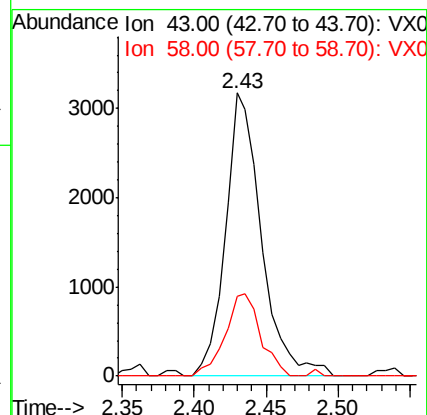
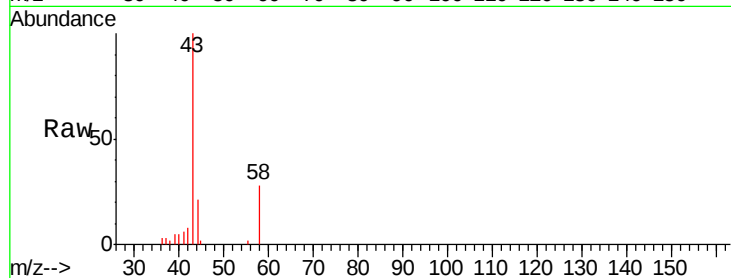
S49-0545RE

Tgt Ion: 43 Resp: 5527

Ion Ratio Lower Upper

43 100

58 28.3 23.3 34.9



#18

Methyl Acetate

Concen: 4.075 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012641.D

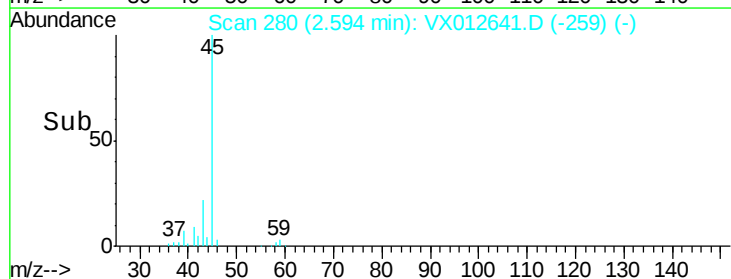
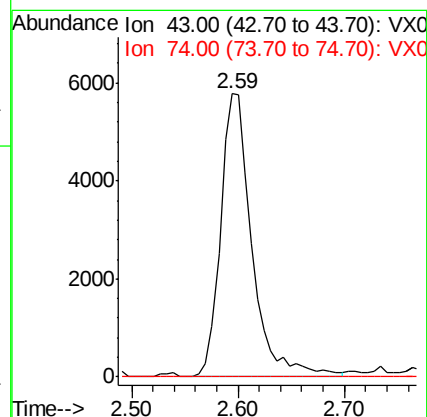
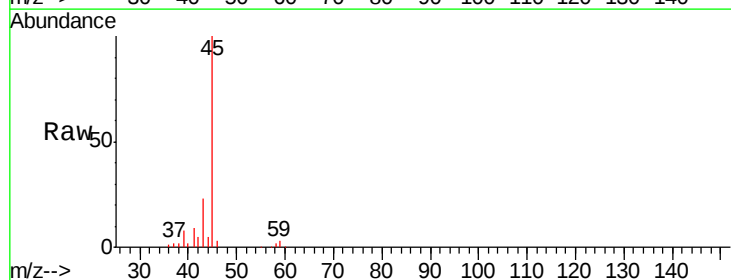
Acq: 24 Sep 2019 18:27

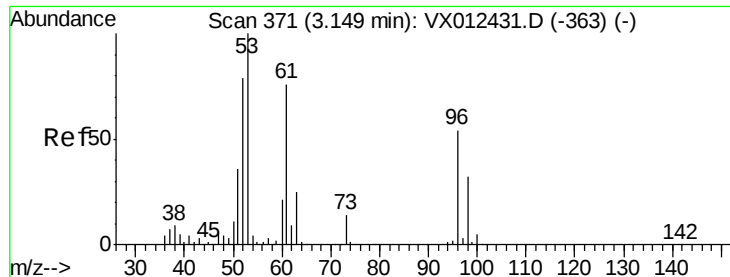
Tgt Ion: 43 Resp: 11832

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#





#21

trans-1,2-Dichloroethene

Concen: 3.453 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX012641.D

Acq: 24 Sep 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

S49-0545RE

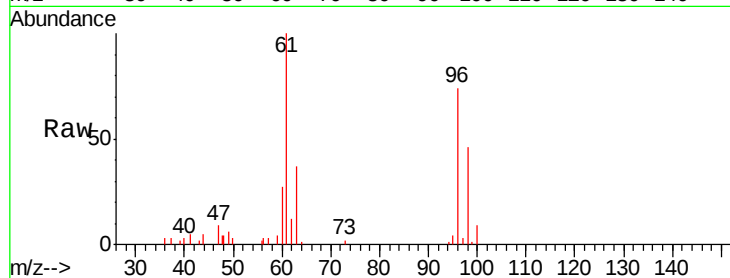
Tgt Ion: 96 Resp: 6575

Ion Ratio Lower Upper

96 100

61 134.2 112.0 168.0

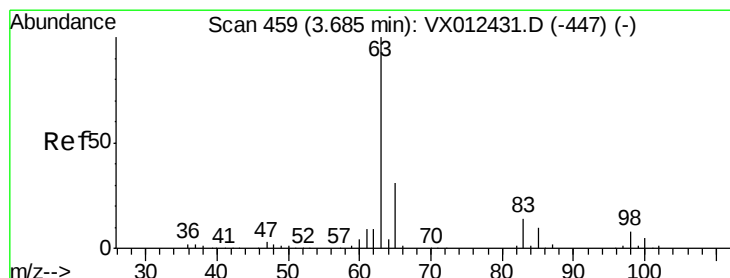
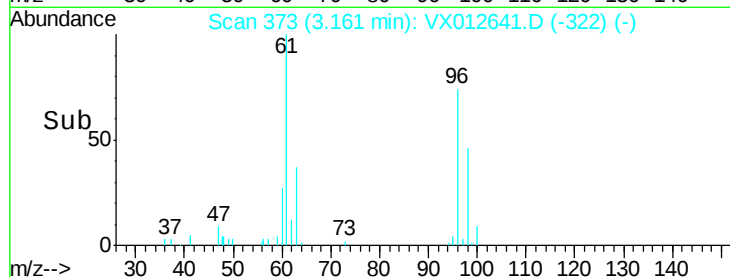
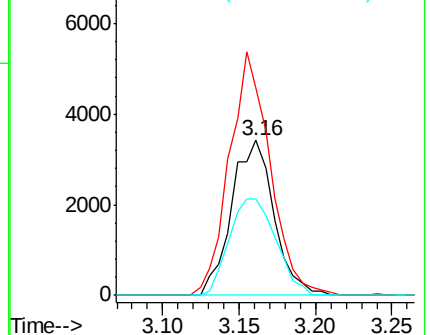
98 61.8 47.8 71.8



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



#24

1,1-Dichloroethane

Concen: 4.792 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX012641.D

Acq: 24 Sep 2019 18:27

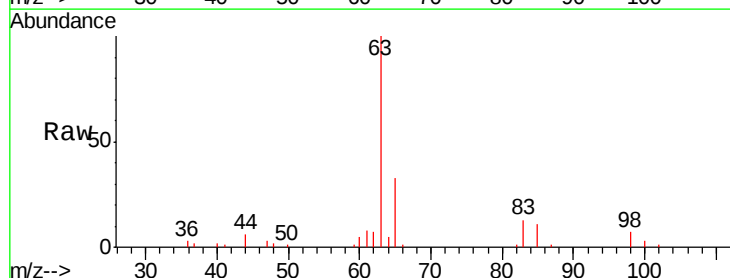
Tgt Ion: 63 Resp: 17165

Ion Ratio Lower Upper

63 100

98 7.2 3.9 11.7

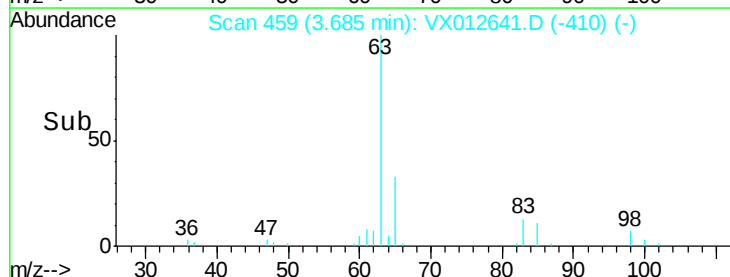
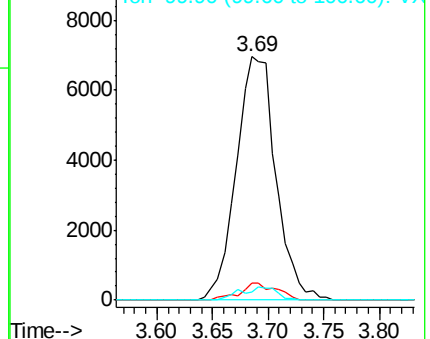
100 3.5 2.3 6.9

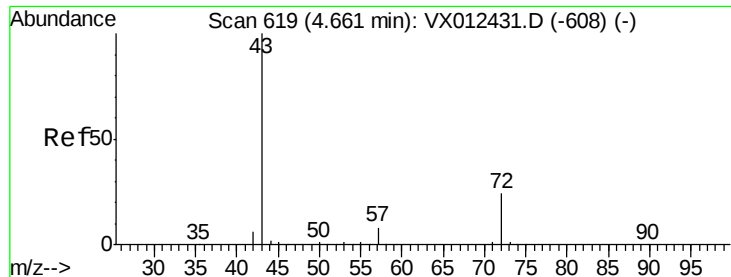


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 0.331 ug/l

RT: 4.69 min Scan# 624

Delta R.T. 0.03 min

Lab File: VX012641.D

Acq: 24 Sep 2019 18:27

Instrument :

MSVOA_X

ClientSampled :

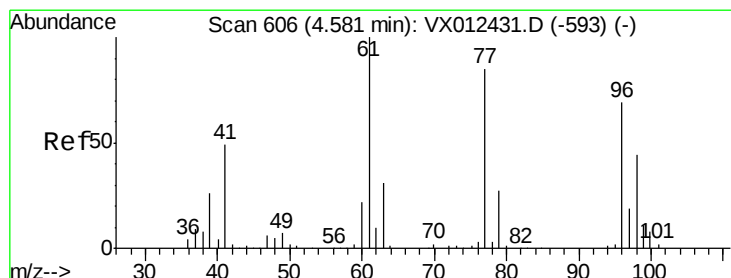
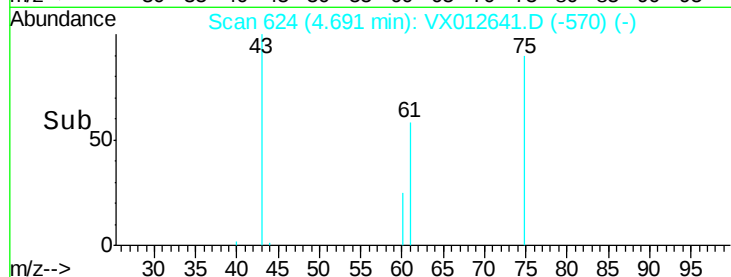
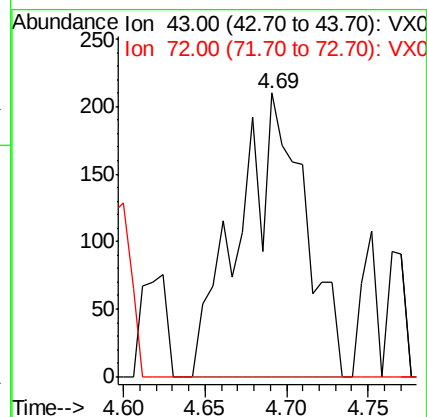
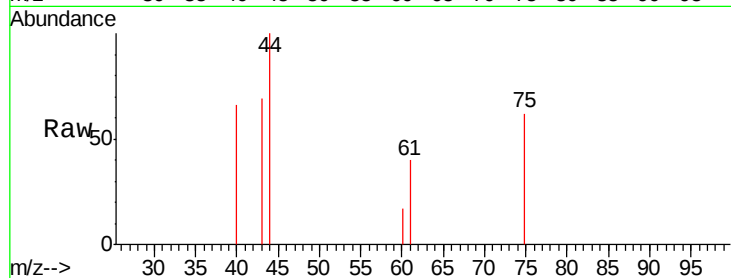
S49-0545RE

Tgt Ion: 43 Resp: 585

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



#27

cis-1,2-Dichloroethene

Concen: 13.900 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX012641.D

Acq: 24 Sep 2019 18:27

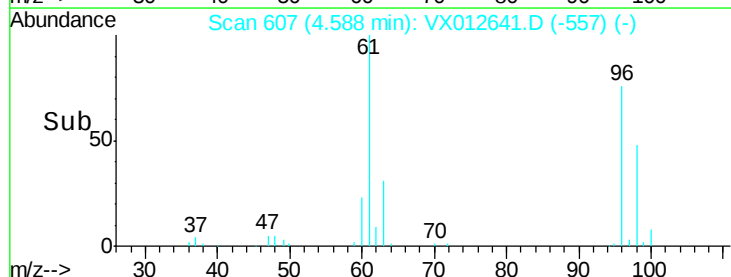
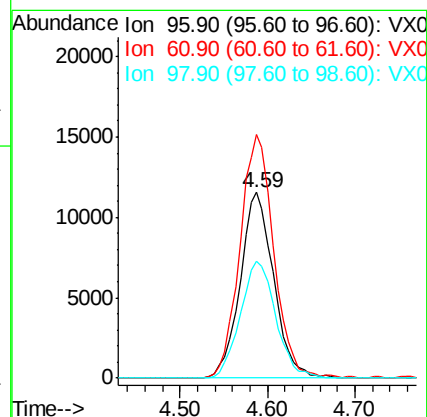
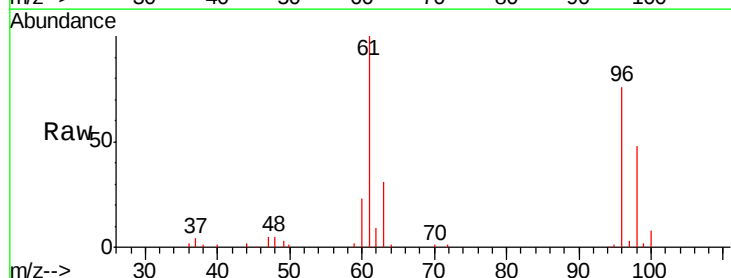
Tgt Ion: 96 Resp: 30714

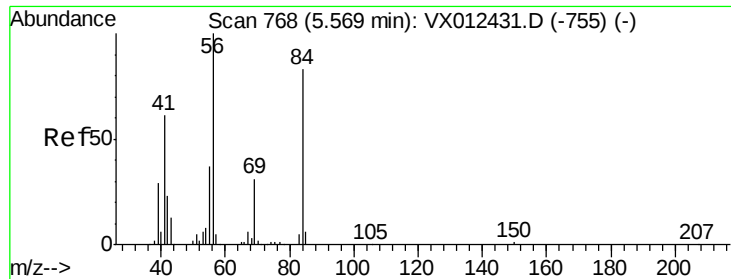
Ion Ratio Lower Upper

96 100

61 132.3 0.0 319.4

98 66.5 0.0 130.6

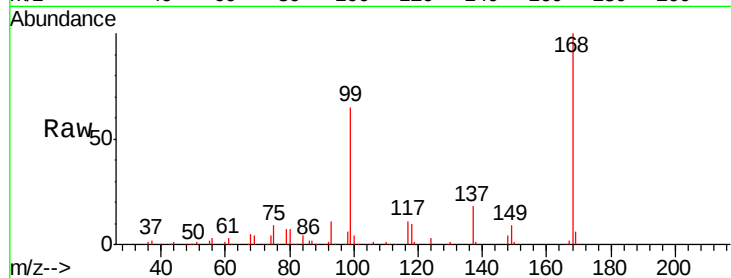




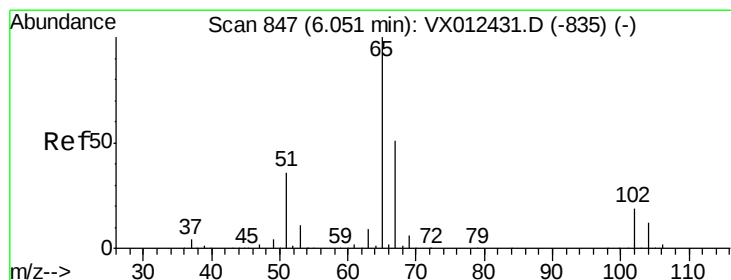
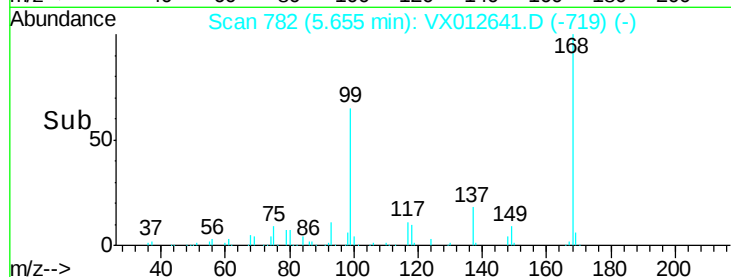
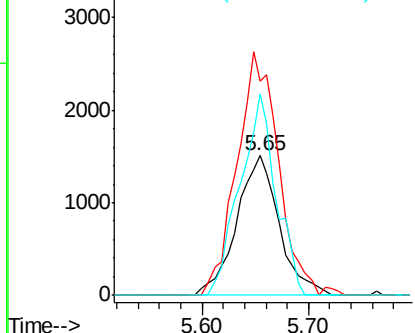
#31
Cyclohexane
Concen: 1.302 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.09 min
Lab File: VX012641.D
Acq: 24 Sep 2019 18:27

Instrument :
MSVOA_X
ClientSampled :
S49-0545RE

Tgt Ion: 56 Resp: 4219
Ion Ratio Lower Upper
56 100
69 153.8 25.0 37.6#
84 144.6 66.4 99.6#

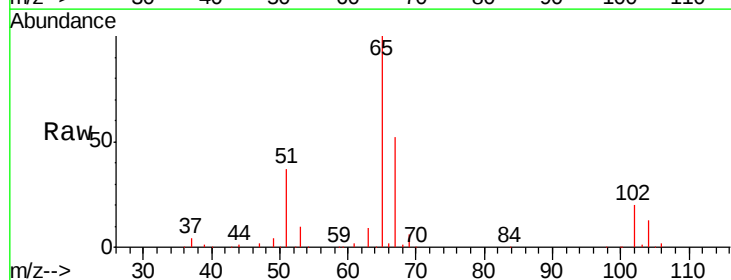


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

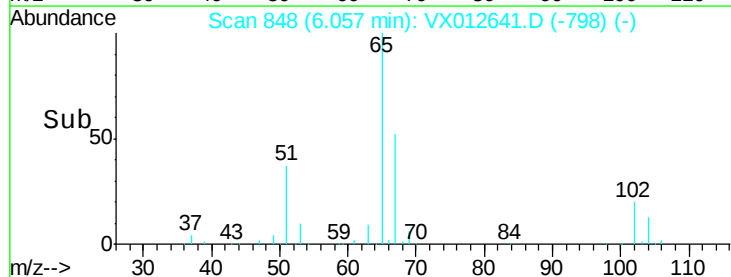
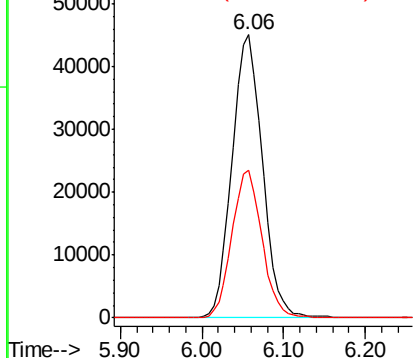


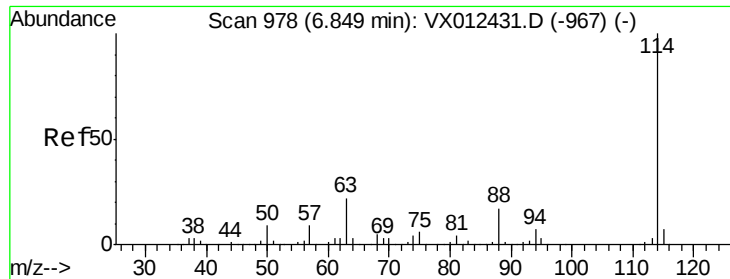
#33
1,2-Dichloroethane-d4
Concen: 49.969 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX012641.D
Acq: 24 Sep 2019 18:27

Tgt Ion: 65 Resp: 116331
Ion Ratio Lower Upper
65 100
67 51.3 0.0 101.2



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

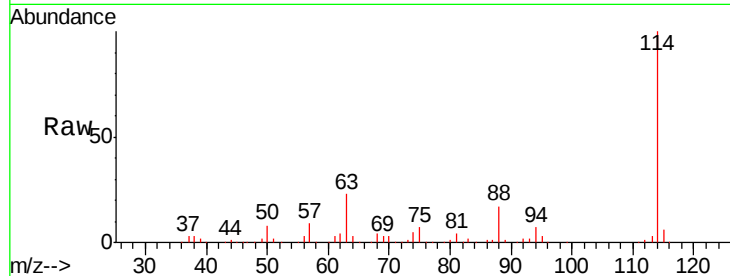




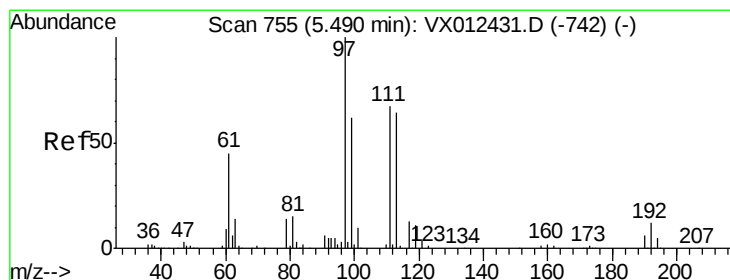
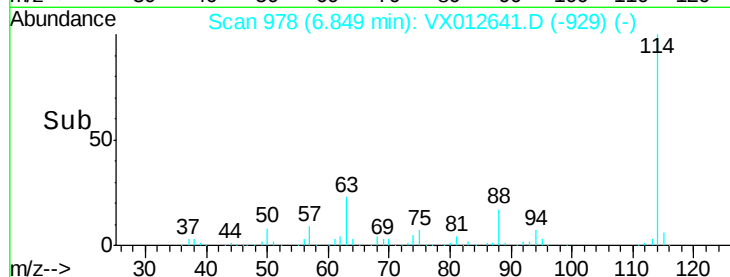
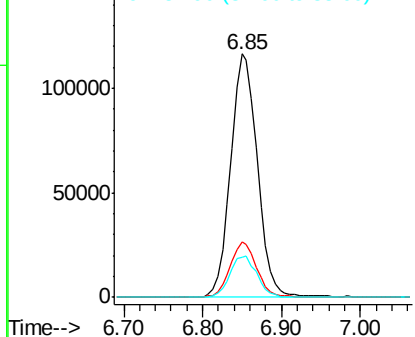
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012641.D
 Acq: 24 Sep 2019 18:27

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0545RE

Tgt Ion:114 Resp: 275191
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 43.2
 88 16.7 0.0 33.2

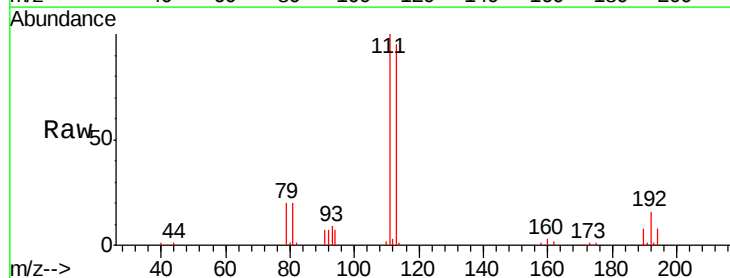


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

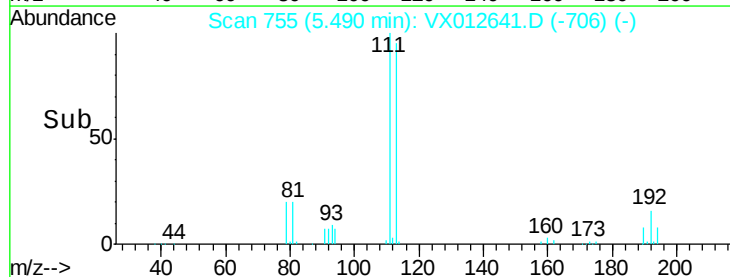
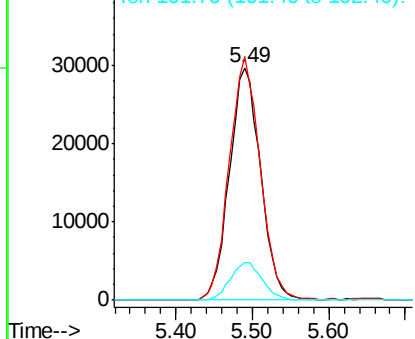


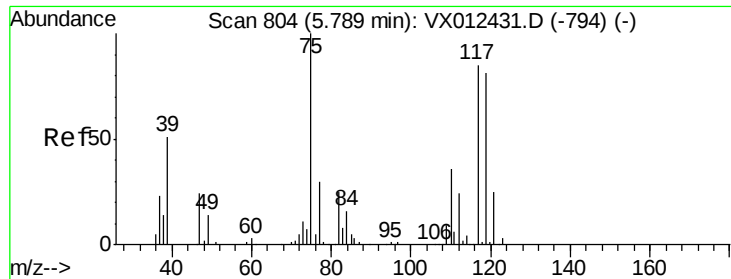
#35
 Dibromofluoromethane
 Concen: 51.276 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012641.D
 Acq: 24 Sep 2019 18:27

Tgt Ion:113 Resp: 84036
 Ion Ratio Lower Upper
 113 100
 111 103.6 83.4 125.2
 192 16.6 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: 5.274 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012641.D

Acq: 24 Sep 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

S49-0545RE

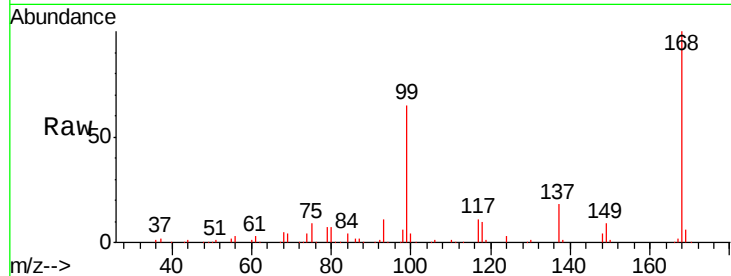
Tgt Ion: 75 Resp: 13990

Ion Ratio Lower Upper

75 100

110 9.8 16.7 50.0#

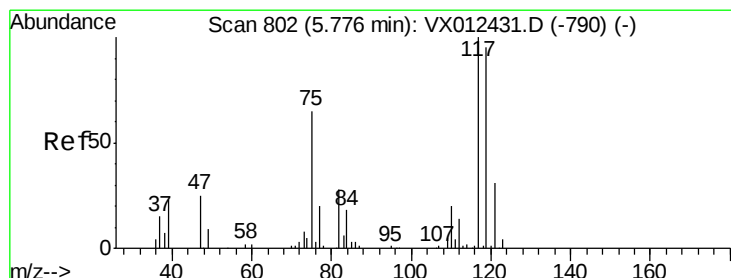
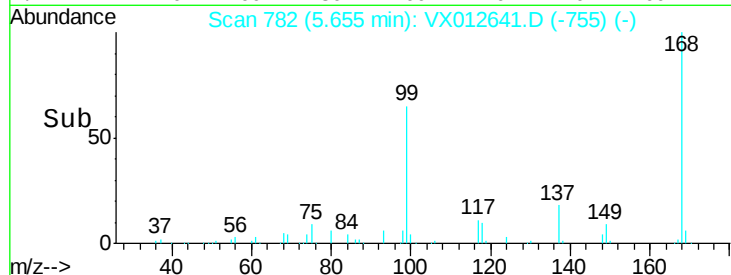
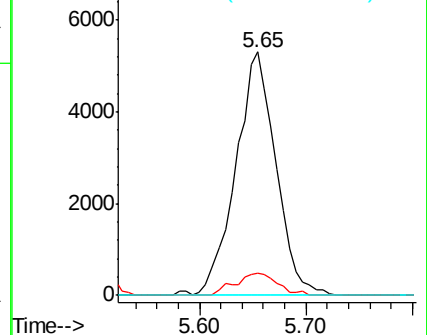
77 0.0 24.2 36.2#



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: 6.991 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012641.D

Acq: 24 Sep 2019 18:27

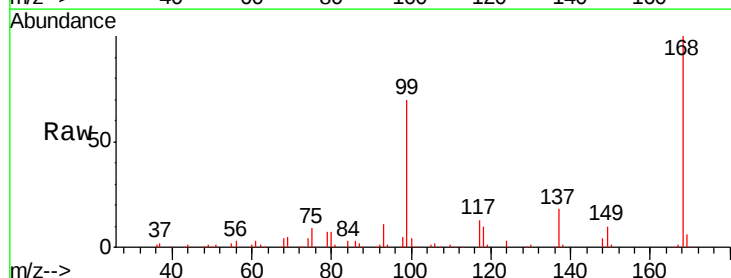
Tgt Ion: 117 Resp: 18837

Ion Ratio Lower Upper

117 100

119 4.7 75.7 113.5#

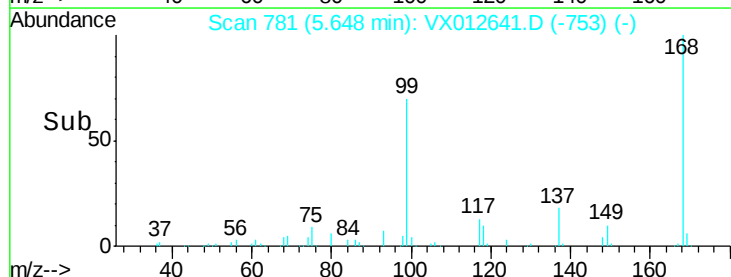
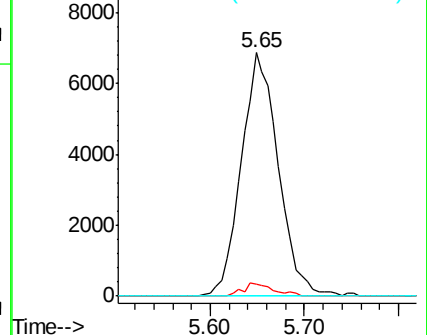
121 0.0 24.2 36.4#

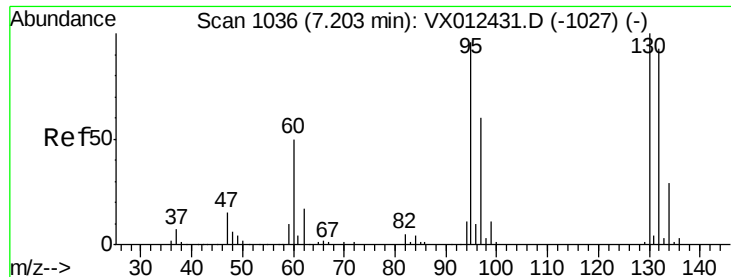


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

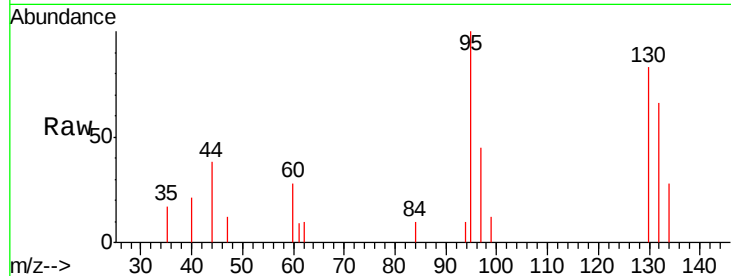




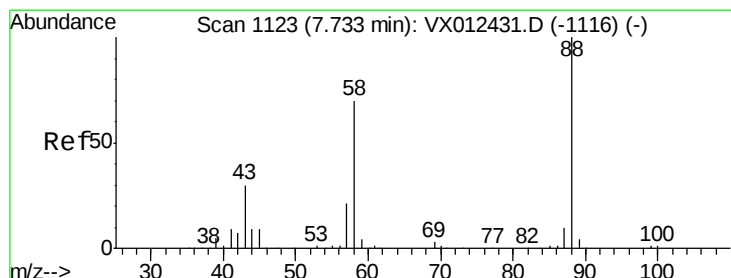
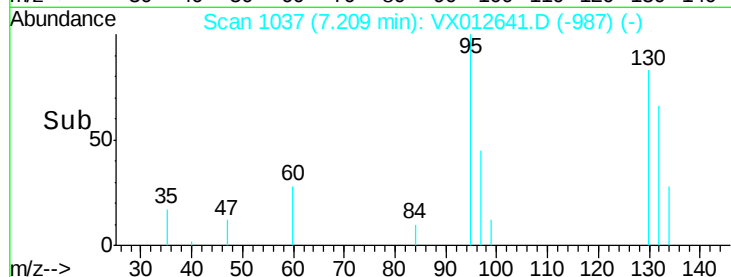
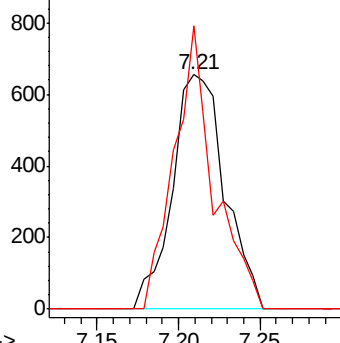
#44
 Trichloroethene
 Concen: 0.737 ug/l
 RT: 7.21 min Scan# 1037
 Delta R.T. 0.01 min
 Lab File: VX012641.D
 Acq: 24 Sep 2019 18:27

Instrument :
 MSVOA_X
 ClientSampled :
 S49-0545RE

Tgt Ion: 130 Resp: 1471
 Ion Ratio Lower Upper
 130 100
 95 120.9 0.0 193.0

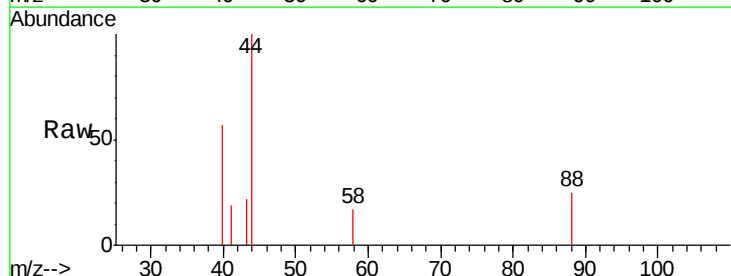


Abundance Ion 129.80 (129.50 to 130.50): V

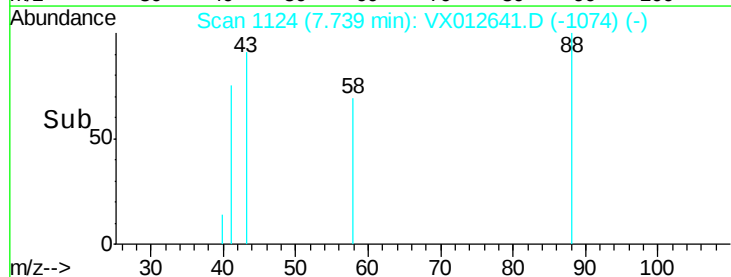
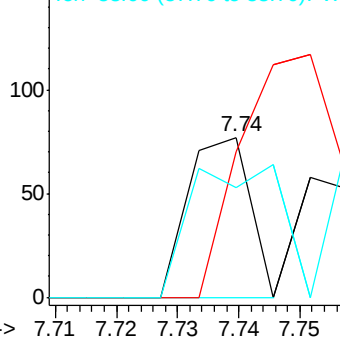


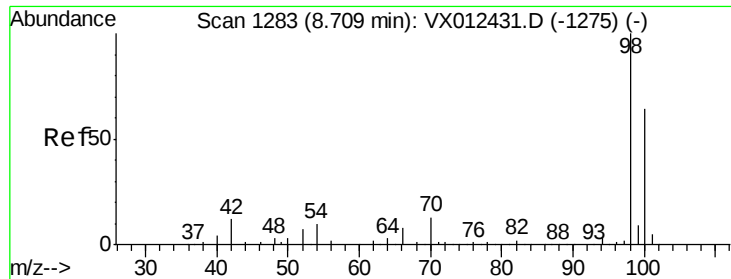
#49
 1,4-Dioxane
 Concen: 0.957 ug/l
 RT: 7.74 min Scan# 1124
 Delta R.T. 0.01 min
 Lab File: VX012641.D
 Acq: 24 Sep 2019 18:27

Tgt Ion: 88 Resp: 54
 Ion Ratio Lower Upper
 88 100
 43 242.6 29.4 44.0#
 58 120.4 57.5 86.3#



Abundance Ion 88.00 (87.70 to 88.70): VX0

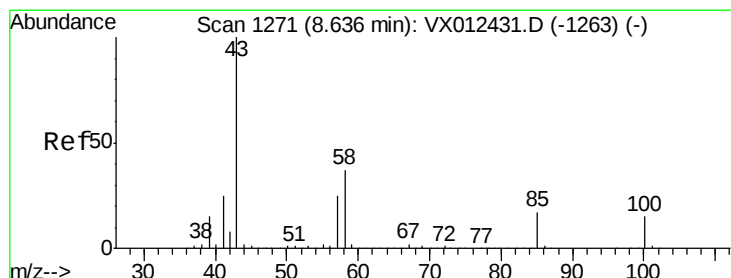
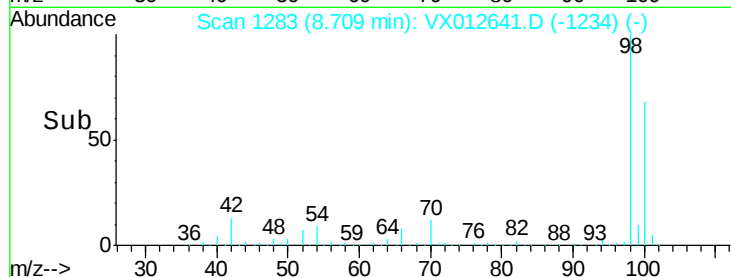
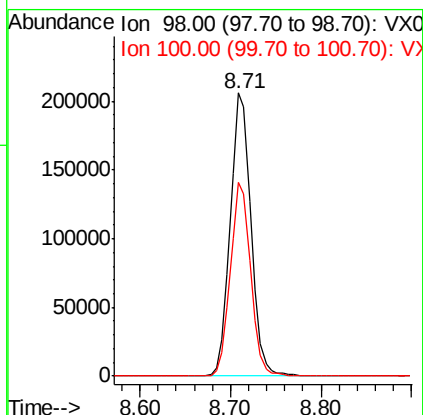
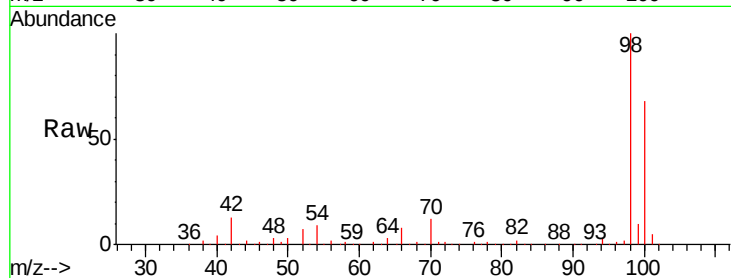




#50
Toluene-d8
Concen: 51.771 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012641.D
Acq: 24 Sep 2019 18:27

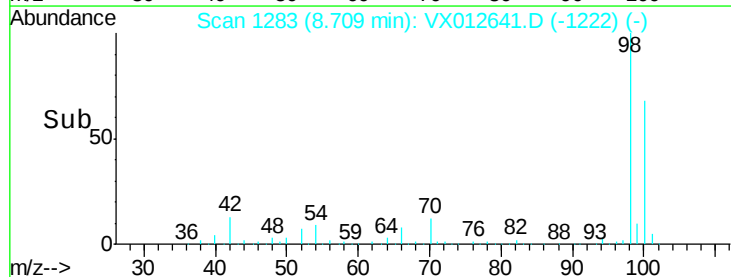
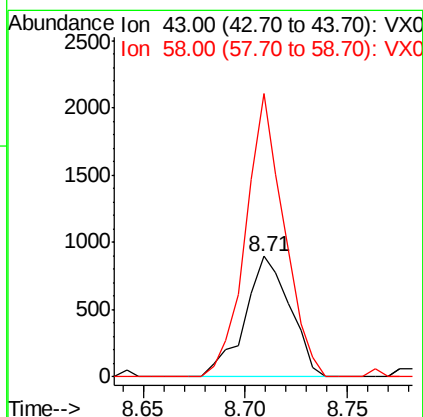
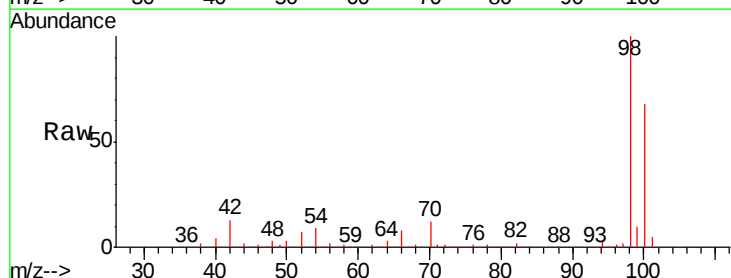
Instrument :
MSVOA_X
ClientSampleId :
S49-0545RE

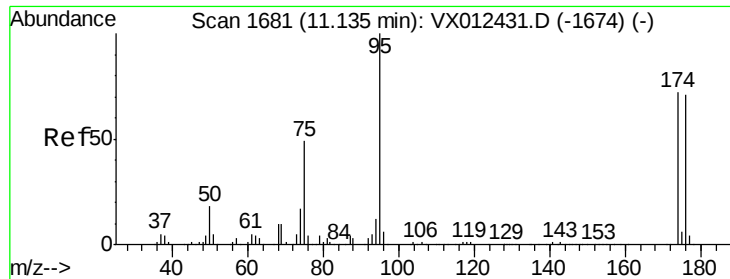
Tgt Ion: 98 Resp: 326752
Ion Ratio Lower Upper
98 100
100 67.3 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.435 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX012641.D
Acq: 24 Sep 2019 18:27

Tgt Ion: 43 Resp: 1391
Ion Ratio Lower Upper
43 100
58 198.1 29.8 44.6#





#62

4-Bromofluorobenzene

Concen: 41.901 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012641.D

Acq: 24 Sep 2019 18:27

Instrument :

MSVOA_X

ClientSampled :

S49-0545RE

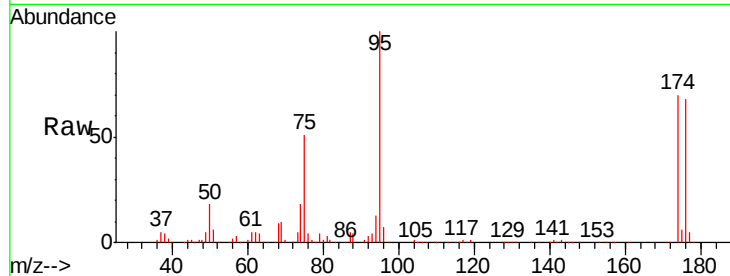
Tgt Ion: 95 Resp: 103984

Ion Ratio Lower Upper

95 100

174 68.5 0.0 140.0

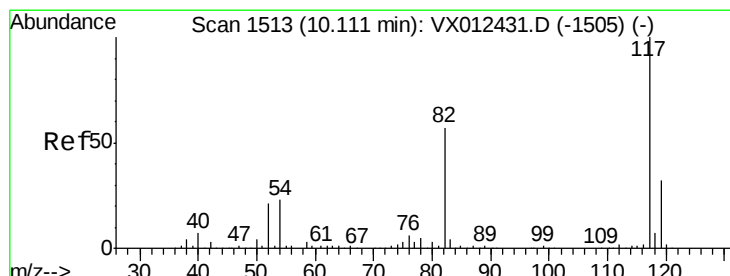
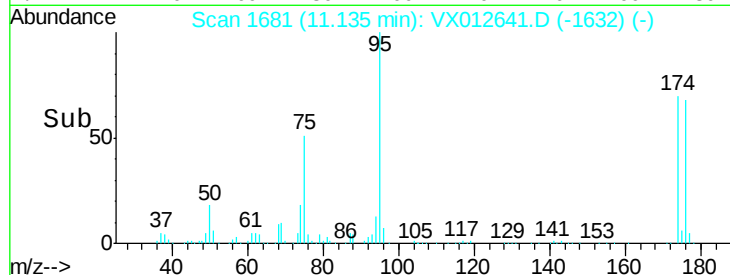
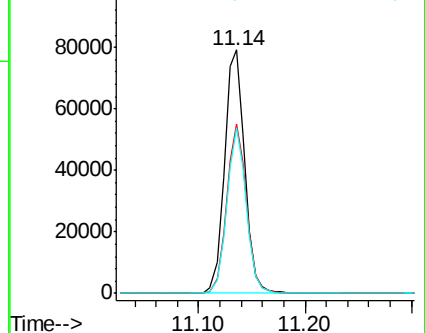
176 65.7 0.0 135.4



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: VX012641.D

Acq: 24 Sep 2019 18:27

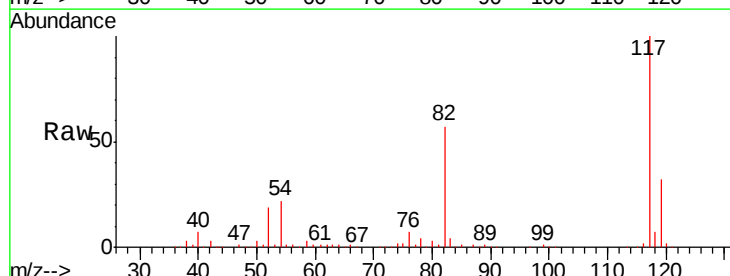
Tgt Ion: 117 Resp: 231544

Ion Ratio Lower Upper

117 100

82 57.1 45.9 68.9

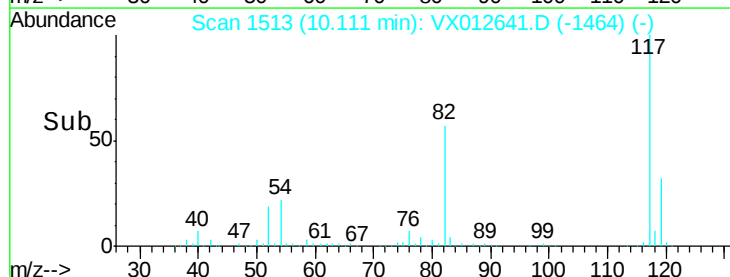
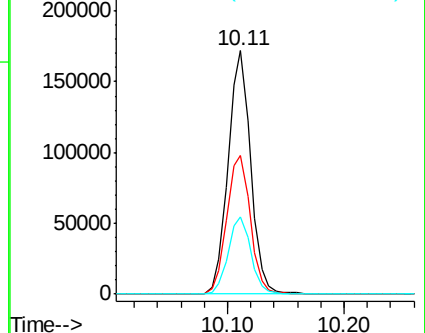
119 31.8 25.3 37.9

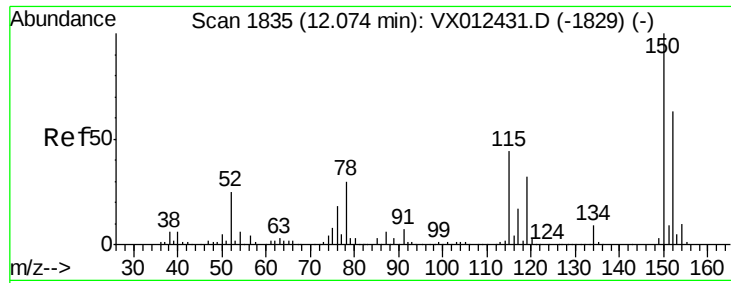


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX012641.D

Acq: 24 Sep 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

S49-0545RE

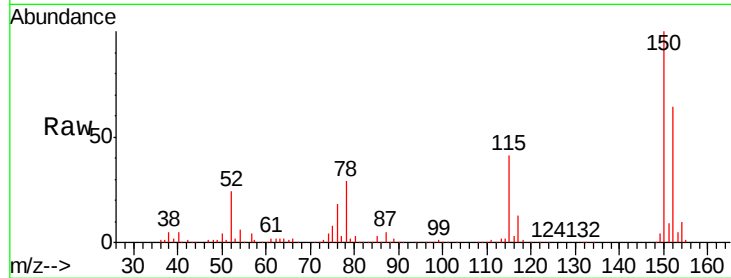
Tgt Ion:152 Resp: 81331

Ion Ratio Lower Upper

152 100

115 65.1 44.1 132.3

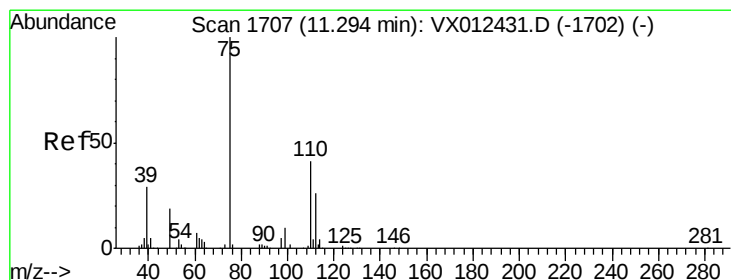
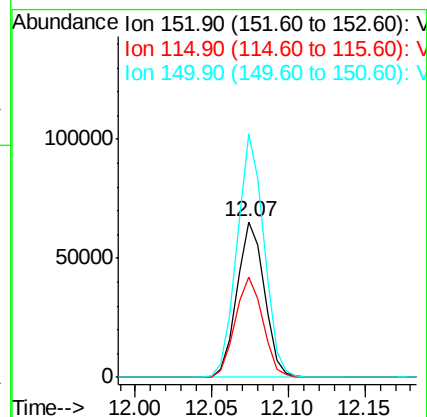
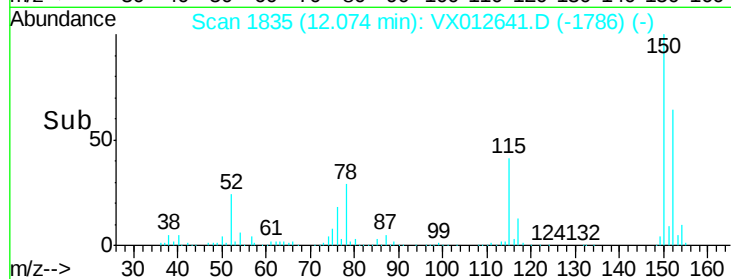
150 154.2 0.0 343.8



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: 25.175 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012641.D

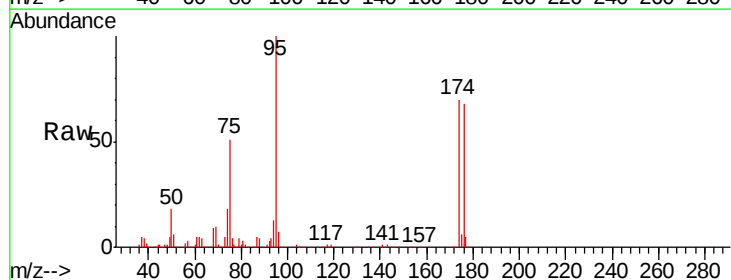
Acq: 24 Sep 2019 18:27

Tgt Ion: 75 Resp: 54162

Ion Ratio Lower Upper

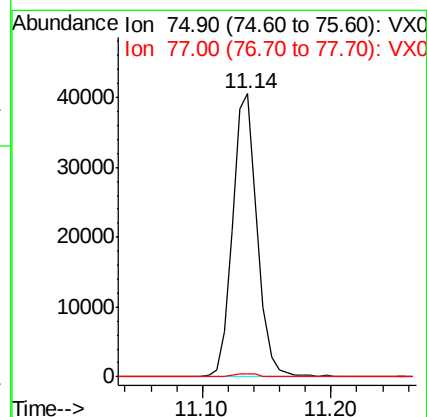
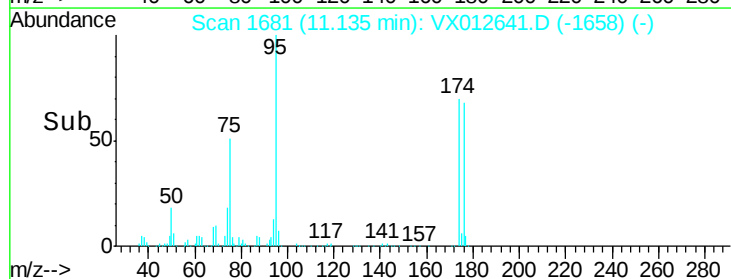
75 100

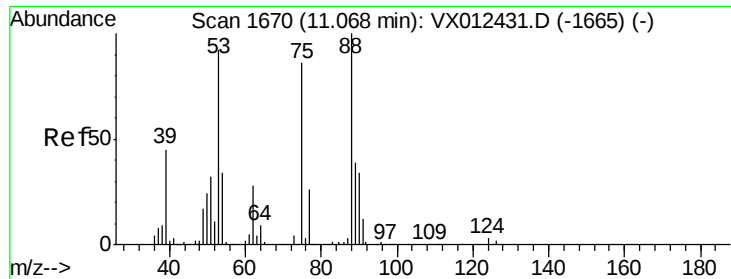
77 1.2 19.7 59.0#



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: 72.146 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012641.D

Acq: 24 Sep 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

S49-0545RE

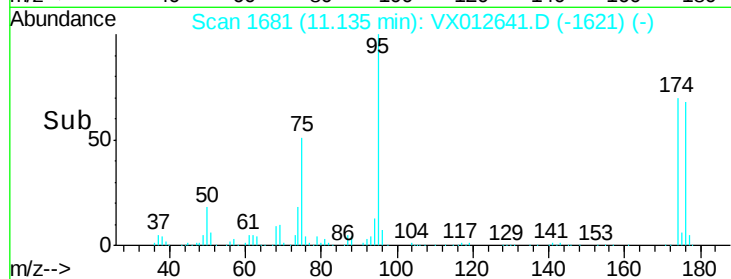
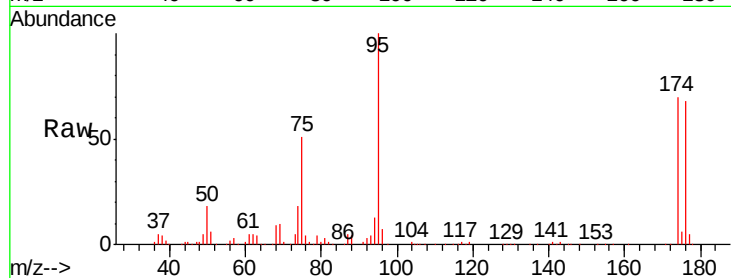
Tgt Ion: 75 Resp: 54162

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

