

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100119\
 Data File : VX012745.D
 Acq On : 01 Oct 2019 19:55
 Operator : JC/SP
 Sample : K5110-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 02 01:49:24 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	161932	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	285356	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	236229	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	85102	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	117471	49.82	ug/l	0.00
Spiked Amount			Recovery	=	99.64%	
35) Dibromofluoromethane	5.49	113	88561	52.11	ug/l	0.00
Spiked Amount			Recovery	=	104.22%	
50) Toluene-d8	8.71	98	342734	52.37	ug/l	0.00
Spiked Amount			Recovery	=	104.74%	
62) 4-Bromofluorobenzene	11.14	95	109252	42.46	ug/l	0.00
Spiked Amount			Recovery	=	84.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1106	0.529	ug/l	91
4) Vinyl Chloride	1.40	62	7560	3.636	ug/l	93
5) Bromomethane	1.66	94	165	0.202	ug/l #	50
6) Chloroethane	1.69	64	1037	0.740	ug/l #	76
11) Tert butyl alcohol	3.02	59	807	1.370	ug/l #	94
12) 1,1-Dichloroethene	2.36	96	30457	17.493	ug/l	99
13) Acrolein	2.27	56	140	10.642	ug/l #	1
16) Acetone	2.43	43	10530	8.431	ug/l	99
24) 1,1-Dichloroethane	3.69	63	19776	5.451	ug/l	98
27) cis-1,2-Dichloroethene	4.59	96	7753	3.464	ug/l	91
29) Tetrahydrofuran	5.15	42	480	0.440	ug/l #	48
36) 1,1-Dichloropropene	5.65	75	13982	5.083	ug/l #	52
38) Carbon Tetrachloride	5.65	117	17537	6.277	ug/l #	17
40) Benzene	6.14	78	3118	0.385	ug/l	96
42) 1,2-Dichloroethane	6.19	62	1458	0.474	ug/l	85
49) 1,4-Dioxane	7.74	88	1312	22.433	ug/l	94
51) 4-Methyl-2-Pentanone	8.71	43	1831	0.552	ug/l #	1
59) 2-Hexanone	9.53	43	915	0.360	ug/l #	26
76) 1,2,3-Trichloropropane	11.13	75	56587	25.137	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	56587	72.037	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012745.D

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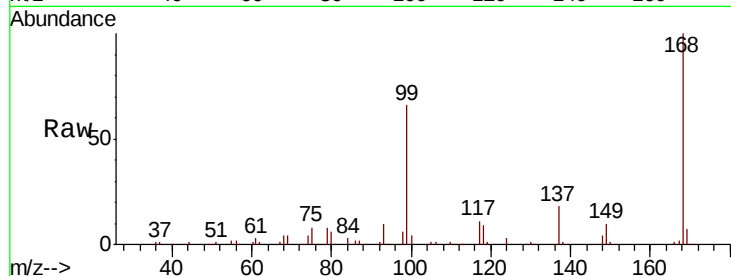
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 161932

Ion Ratio Lower Upper

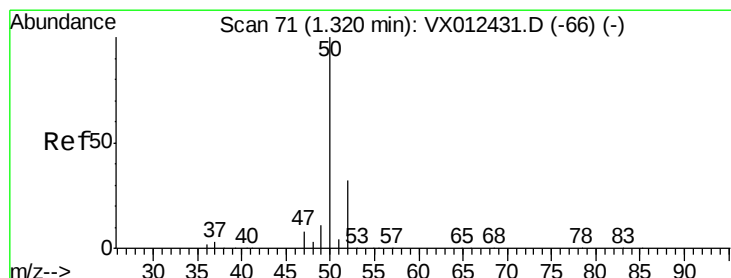
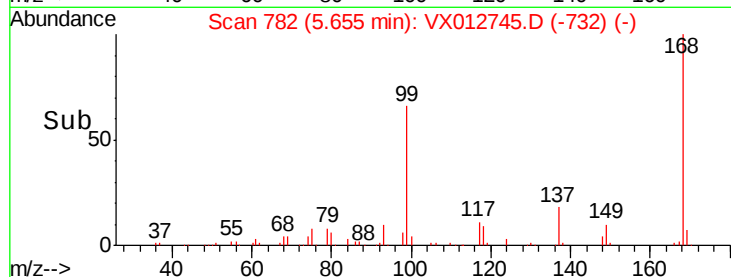
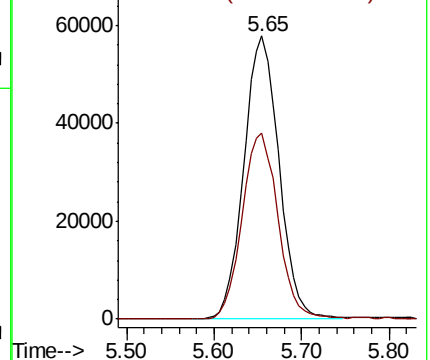
168 100

99 65.8 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: 0.529 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012745.D

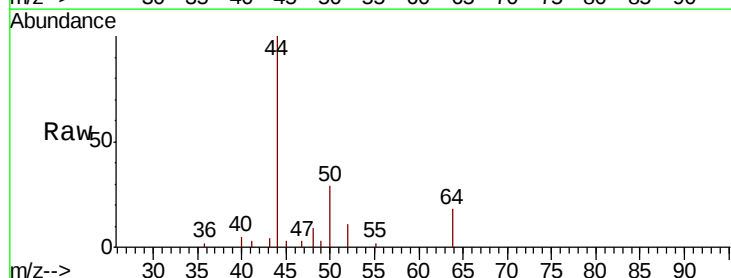
Acq: 01 Oct 2019 19:55

Tgt Ion: 50 Resp: 1106

Ion Ratio Lower Upper

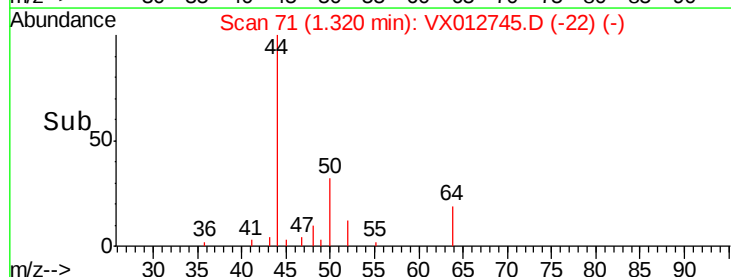
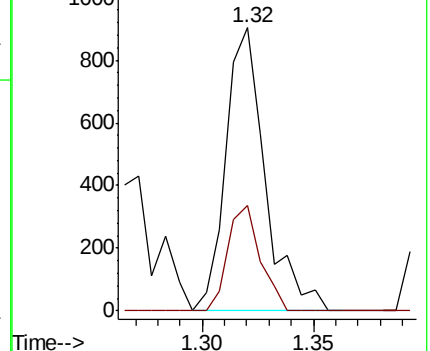
50 100

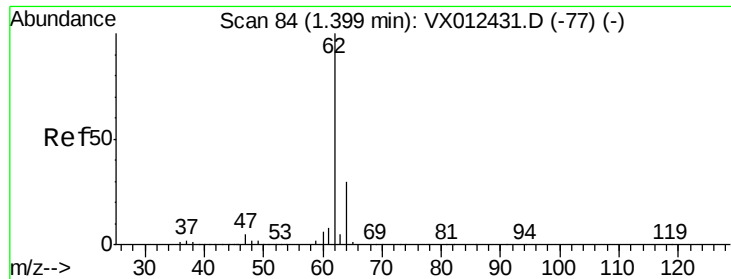
52 37.3 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 3.636 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012745.D

Acq: 01 Oct 2019 19:55

Instrument :

MSVOA_X

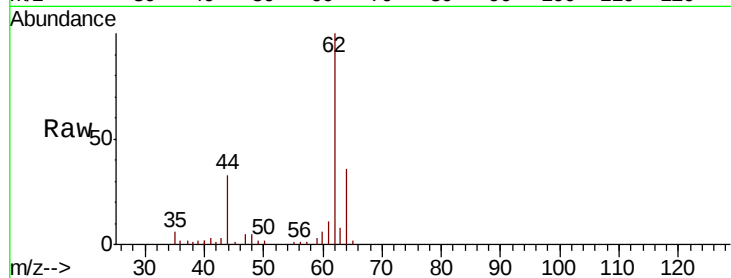
ClientSampled :

Tot Ion: 62 Resp: 7560

Ion Ratio Lower Upper

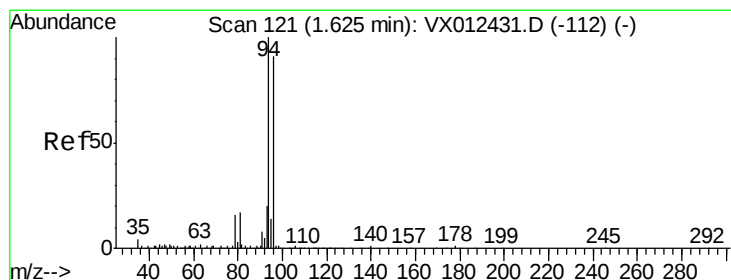
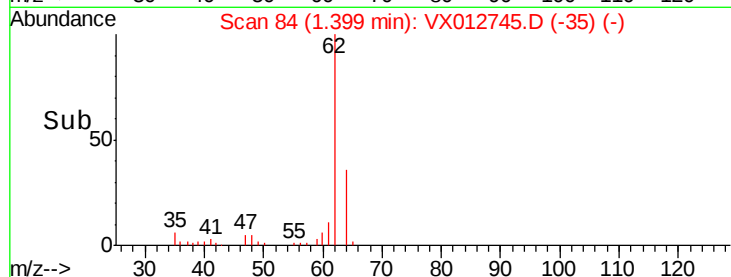
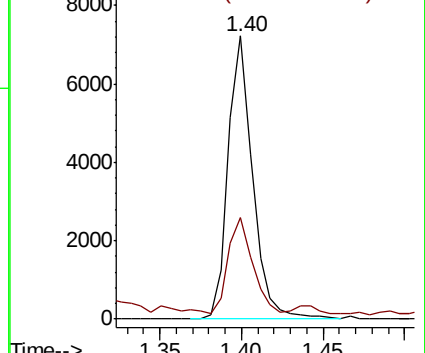
62 100

64 34.1 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: 0.202 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.03 min

Lab File: VX012745.D

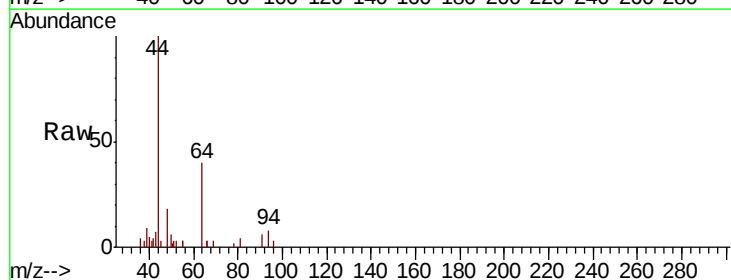
Acq: 01 Oct 2019 19:55

Tgt Ion: 94 Resp: 165

Ion Ratio Lower Upper

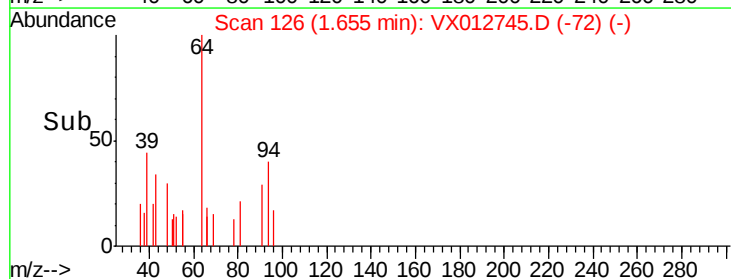
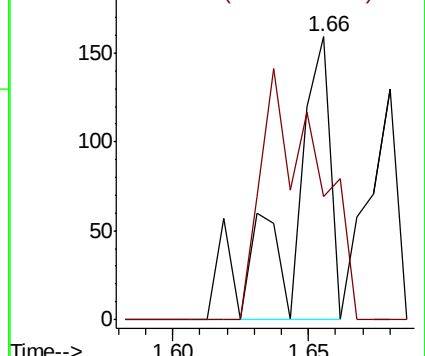
94 100

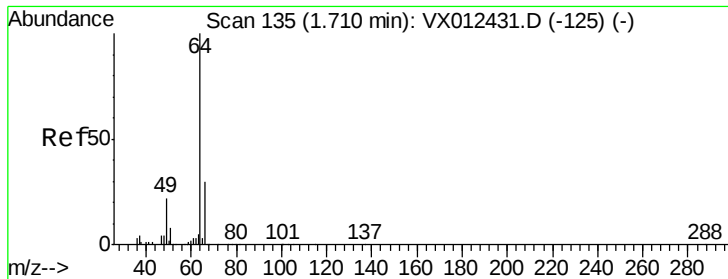
96 43.4 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.740 ug/l

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX012745.D

Acq: 01 Oct 2019 19:55

Instrument :

MSVOA_X

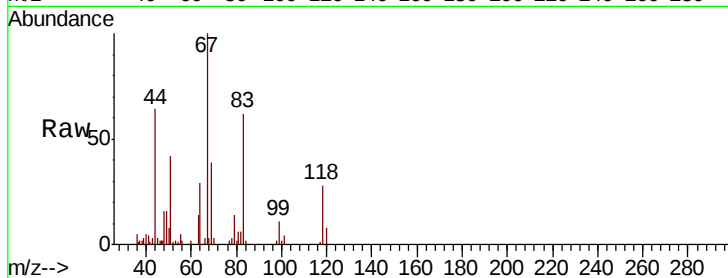
ClientSampled :

Tot Ion: 64 Resp: 1037

Ion Ratio Lower Upper

64 100

66 16.8 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

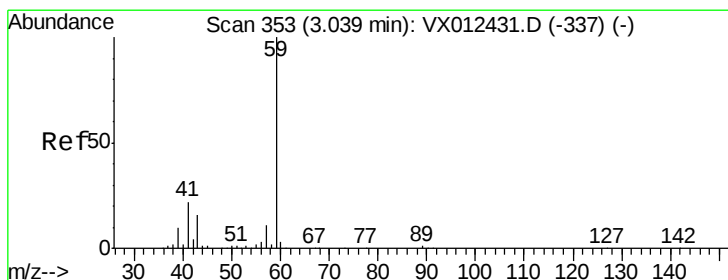
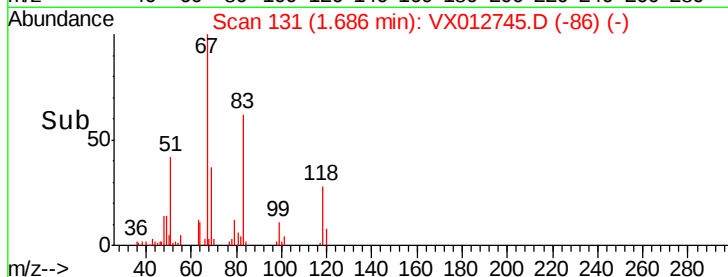
1.69

1000

500

0

Time-->



#11

Tert butyl alcohol

Concen: 1.370 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.02 min

Lab File: VX012745.D

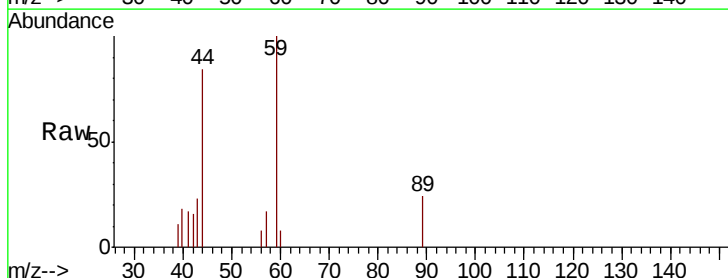
Acq: 01 Oct 2019 19:55

Tgt Ion: 59 Resp: 807

Ion Ratio Lower Upper

59 100

57 12.5 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

800

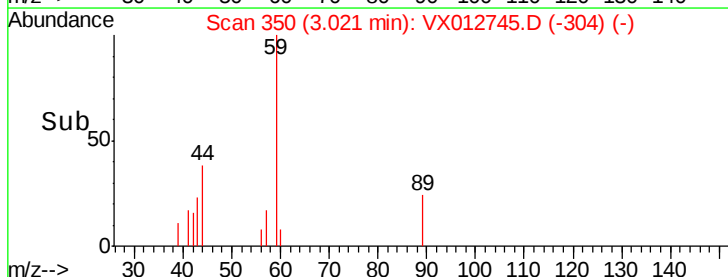
600

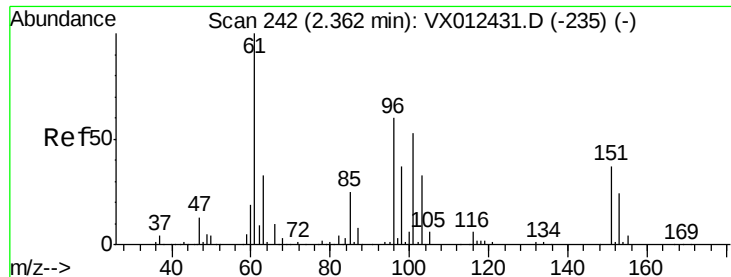
400

200

0

Time-->





#12

1,1-Dichloroethene

Concen: 17.493 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX012745.D

Acq: 01 Oct 2019 19:55

Instrument :
MSVOA_X
ClientSampleId :

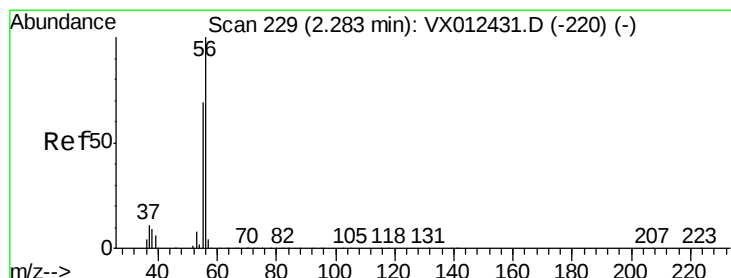
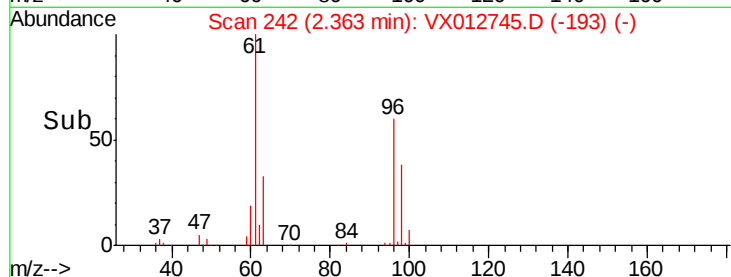
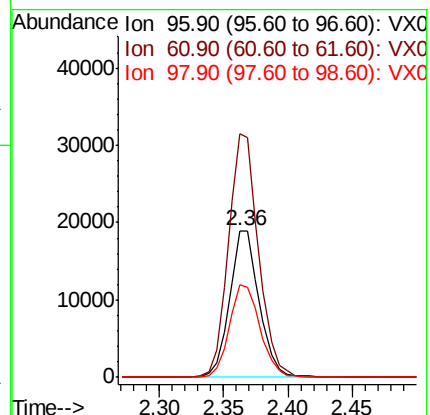
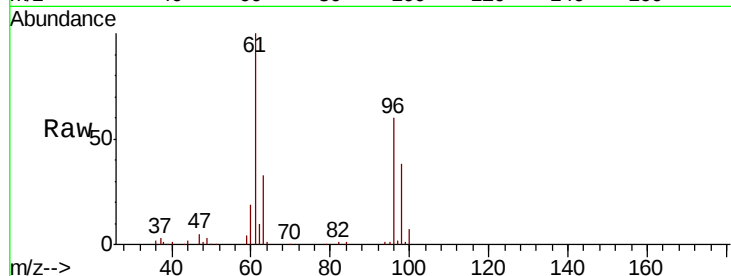
Tot Ion: 96 Resp: 30457

Ion Ratio Lower Upper

96 100

61 165.8 133.8 200.6

98 63.0 49.9 74.9



#13

Acrolein

Concen: 10.642 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX012745.D

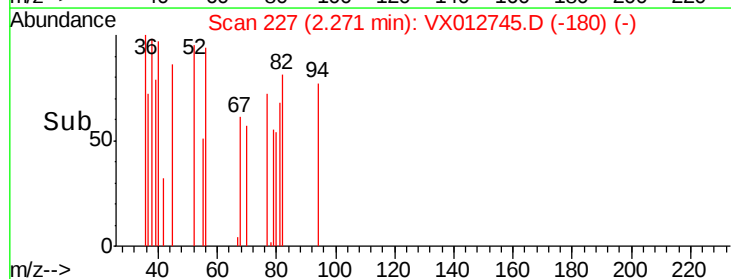
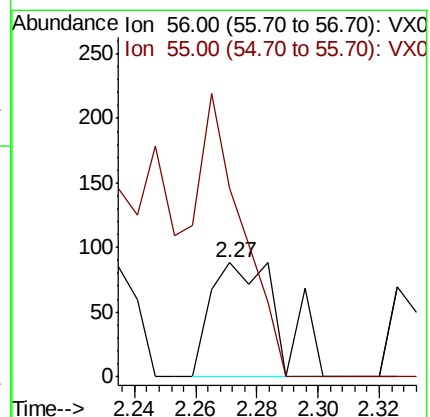
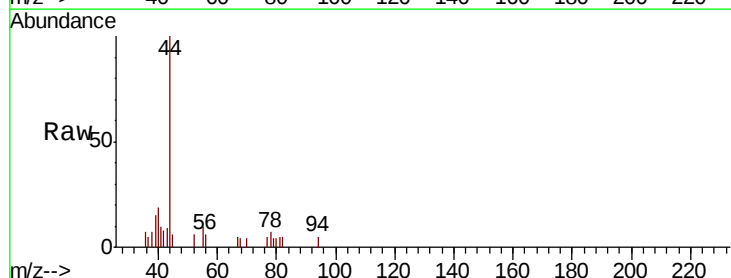
Acq: 01 Oct 2019 19:55

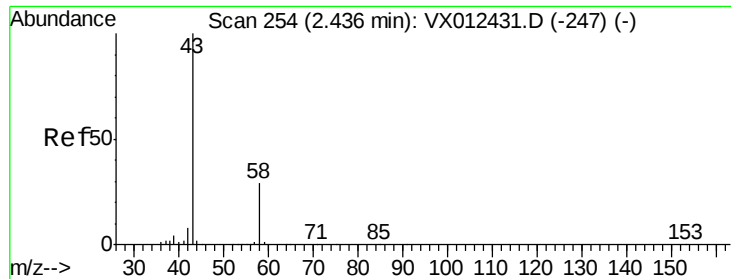
Tgt Ion: 56 Resp: 140

Ion Ratio Lower Upper

56 100

55 167.9 55.8 83.8#





#16

Acetone

Concen: 8.431 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012745.D

Acq: 01 Oct 2019 19:55

Instrument :

MSVOA_X

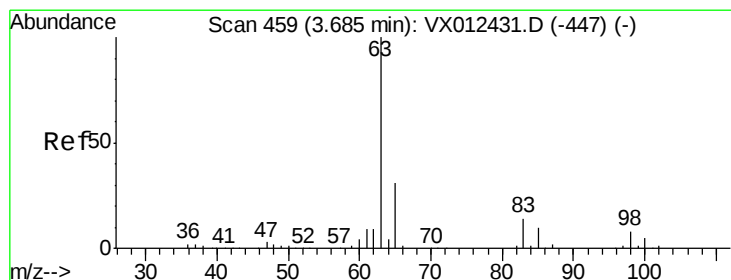
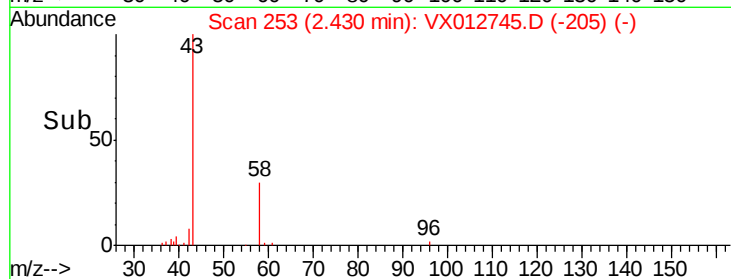
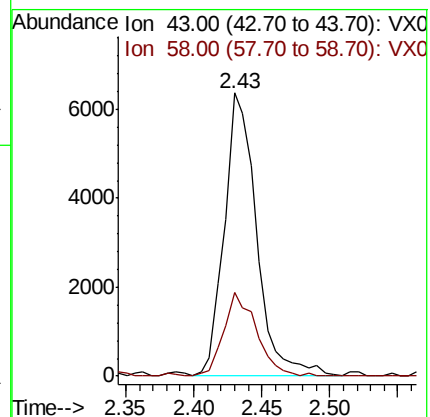
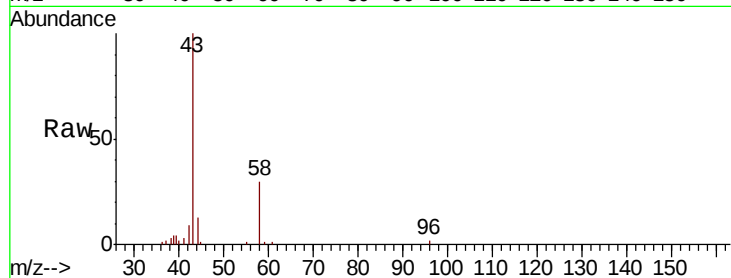
ClientSampleId :

Tot Ion: 43 Resp: 10530

Ion Ratio Lower Upper

43 100

58 29.8 23.3 34.9



#24

1,1-Dichloroethane

Concen: 5.451 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX012745.D

Acq: 01 Oct 2019 19:55

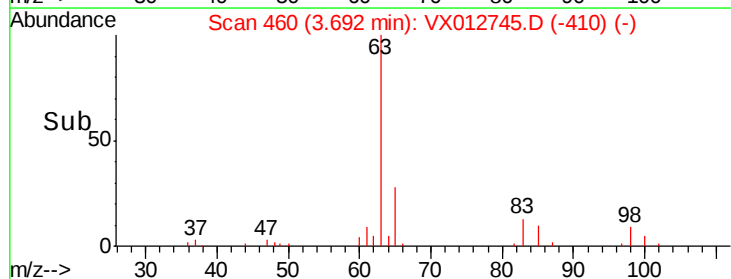
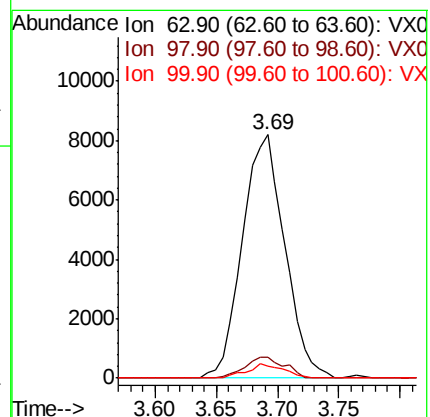
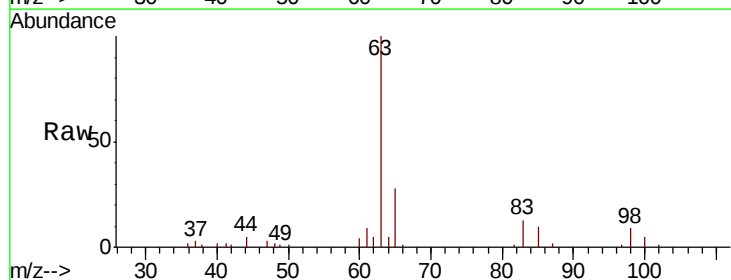
Tgt Ion: 63 Resp: 19776

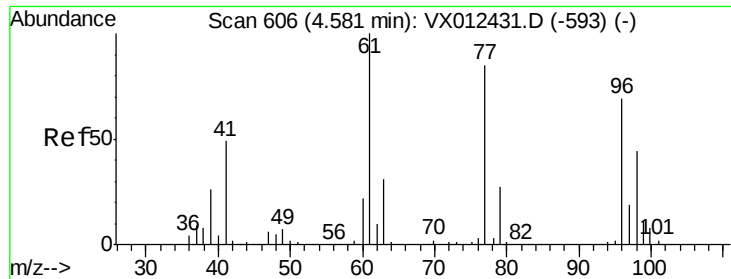
Ion Ratio Lower Upper

63 100

98 8.8 3.9 11.7

100 4.7 2.3 6.9

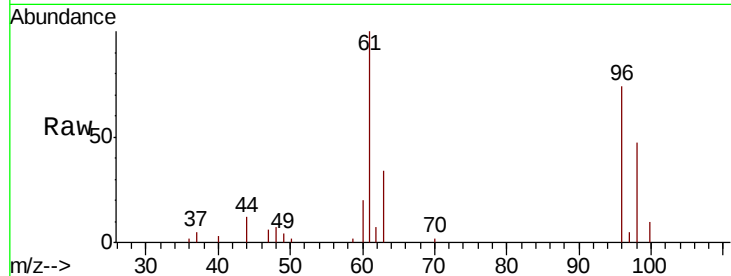




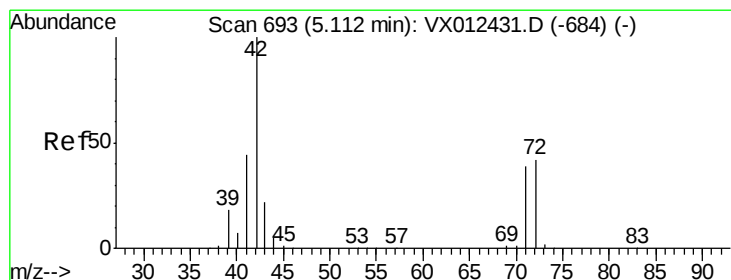
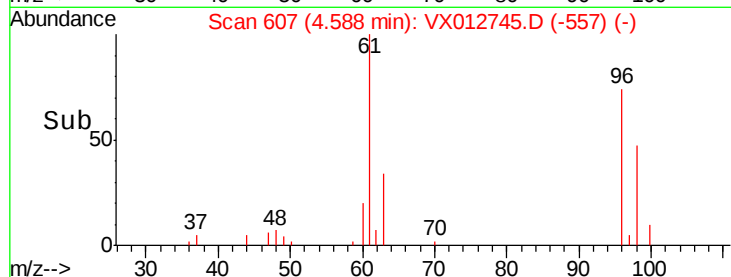
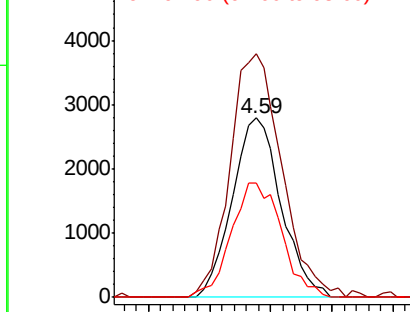
#27
 cis-1,2-Dichloroethene
 Concen: 3.464 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX012745.D
 Acq: 01 Oct 2019 19:55

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 96 Resp: 7753
 Ion Ratio Lower Upper
 96 100
 61 143.2 0.0 319.4
 98 65.3 0.0 130.6

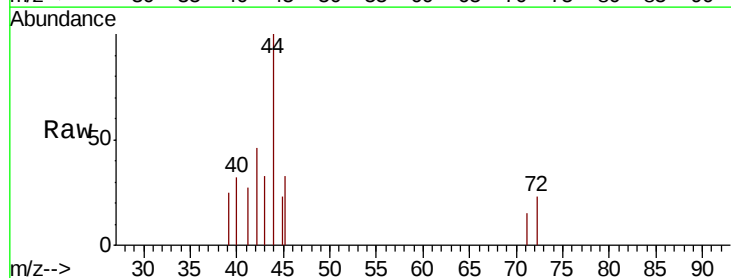


Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0

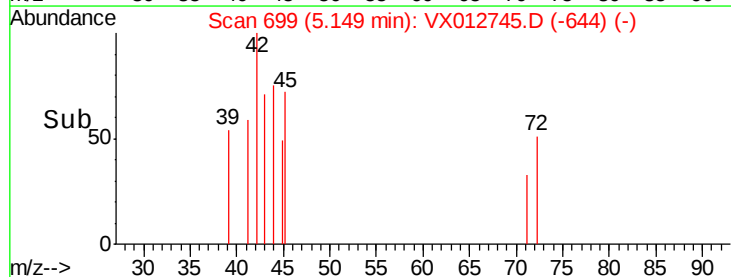
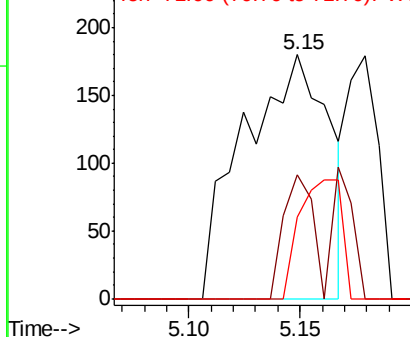


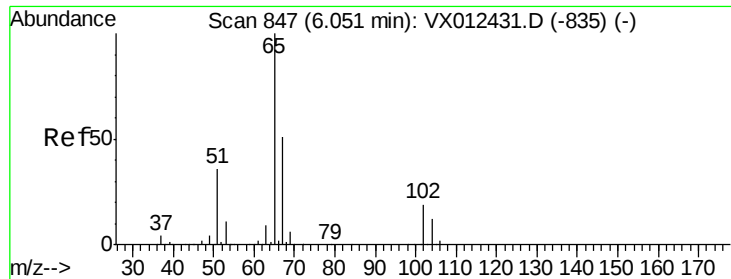
#29
 Tetrahydrofuran
 Concen: 0.440 ug/l
 RT: 5.15 min Scan# 699
 Delta R.T. 0.04 min
 Lab File: VX012745.D
 Acq: 01 Oct 2019 19:55

Tgt Ion: 42 Resp: 480
 Ion Ratio Lower Upper
 42 100
 72 17.1 34.0 51.0#
 71 0.0 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

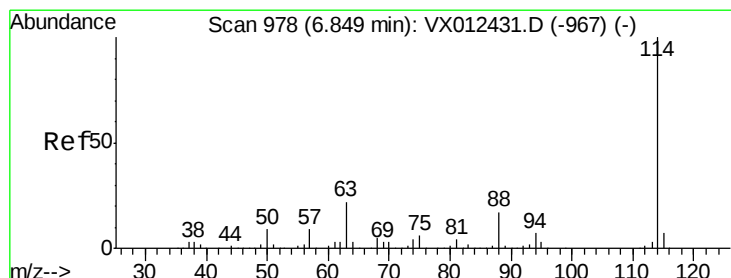
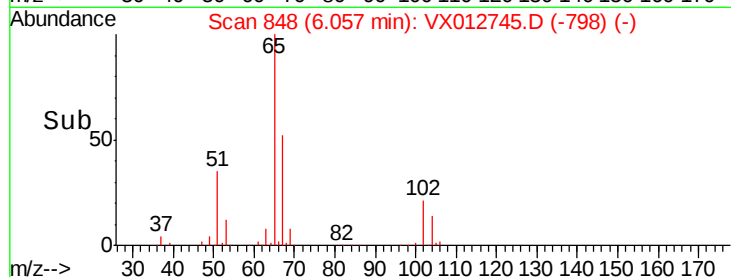
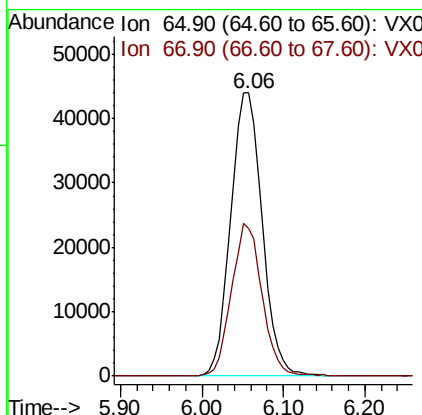
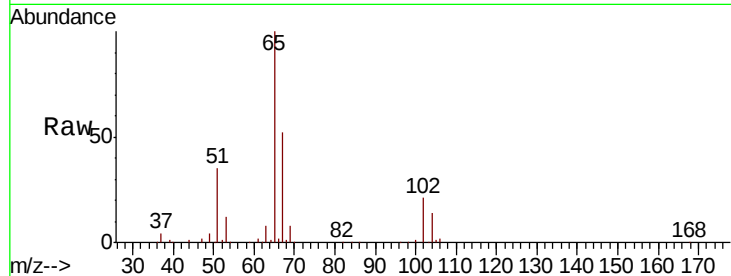




#33
 1,2-Dichloroethane-d4
 Concen: 49.817 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX012745.D
 Acq: 01 Oct 2019 19:55

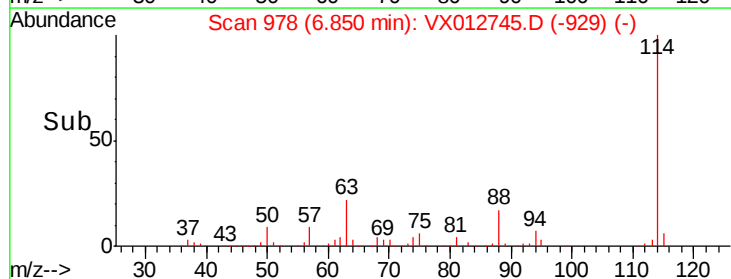
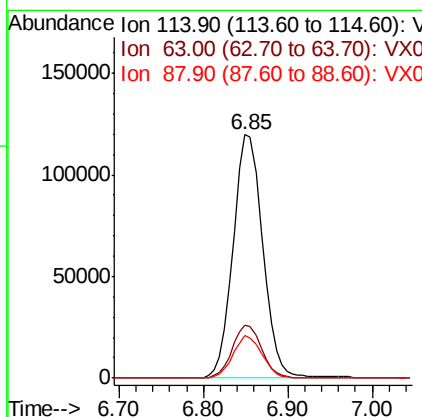
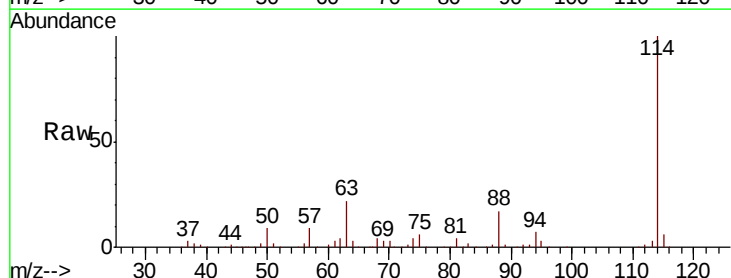
Instrument :
 MSVOA_X
 ClientSampleId :

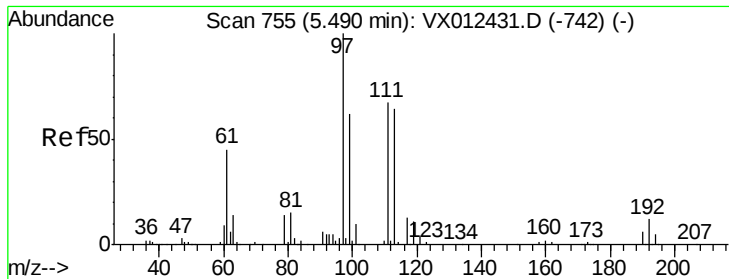
Tot Ion: 65 Resp: 117471
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012745.D
 Acq: 01 Oct 2019 19:55

Tgt Ion: 114 Resp: 285356
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 43.2
 88 17.5 0.0 33.2





#35

Dibromofluoromethane

Concen: 52.113 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012745.D

Acq: 01 Oct 2019 19:55

Instrument :

MSVOA_X

ClientSampleId :

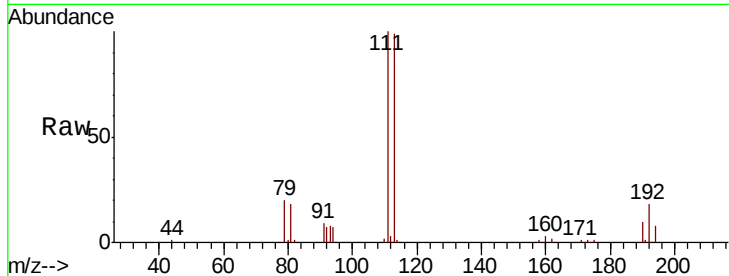
Tot Ion:113 Resp: 88561

Ion Ratio Lower Upper

113 100

111 102.6 83.4 125.2

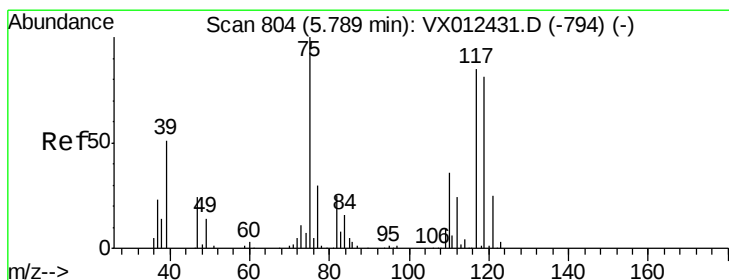
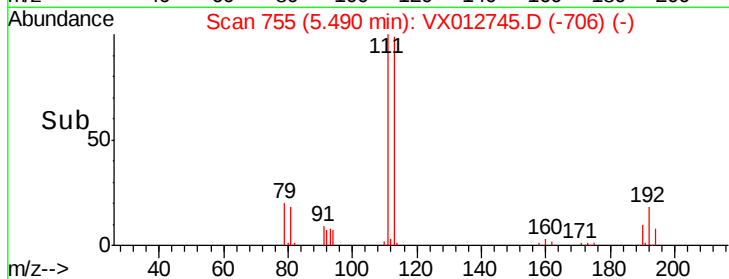
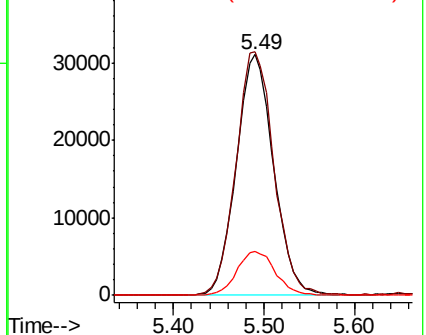
192 18.7 14.4 21.6



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: 5.083 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012745.D

Acq: 01 Oct 2019 19:55

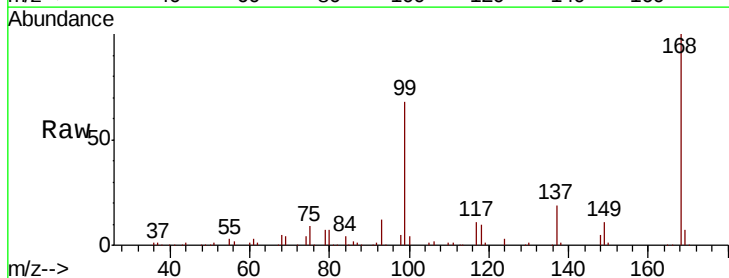
Tgt Ion: 75 Resp: 13982

Ion Ratio Lower Upper

75 100

110 9.8 16.7 50.0#

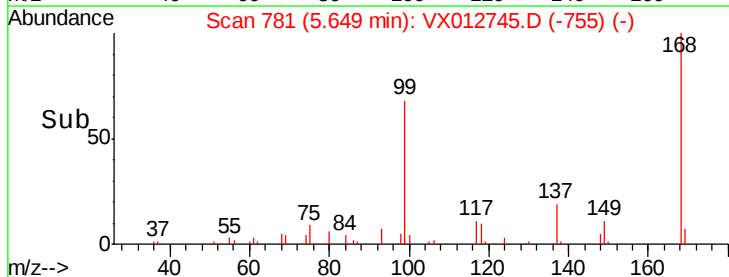
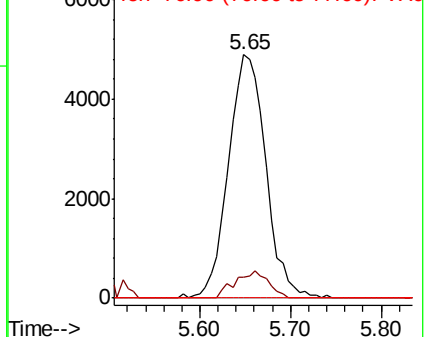
77 0.0 24.2 36.2#

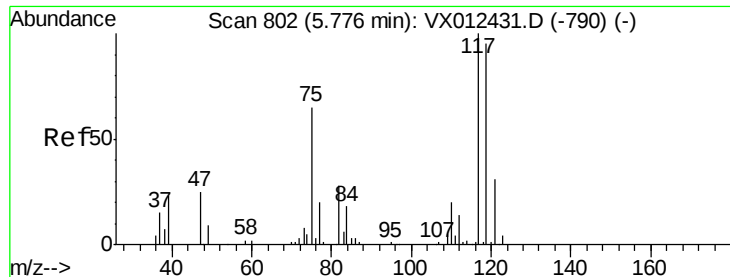


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

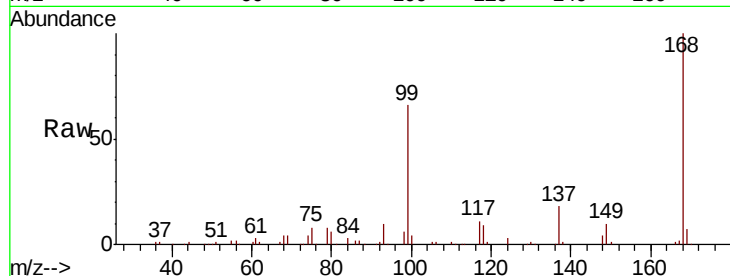




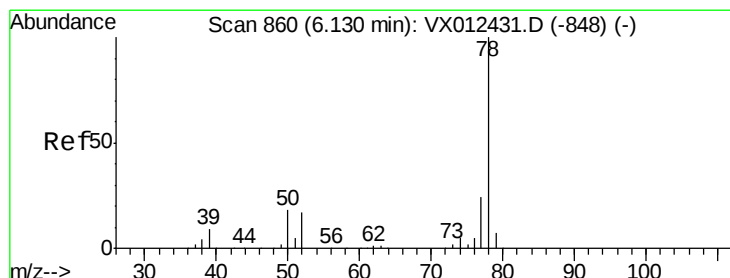
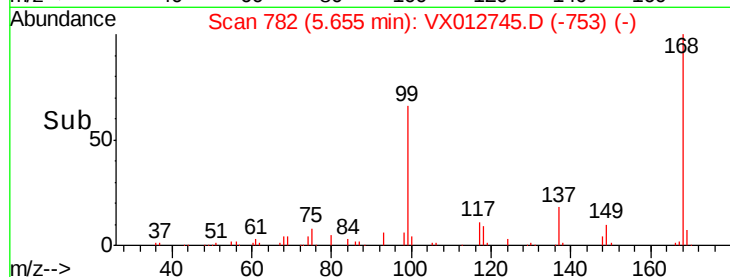
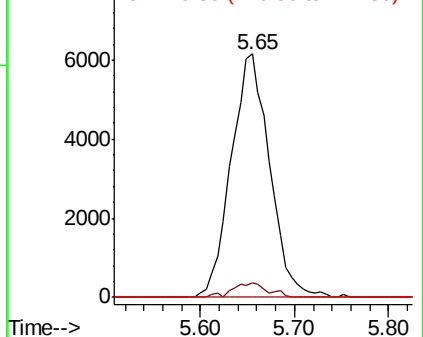
#38
Carbon Tetrachloride
Concen: 6.277 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX012745.D
Acq: 01 Oct 2019 19:55

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 17537
Ion Ratio Lower Upper
117 100
119 6.0 75.7 113.5#
121 0.0 24.2 36.4#

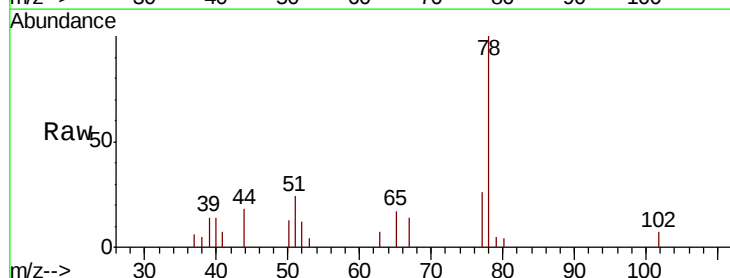


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

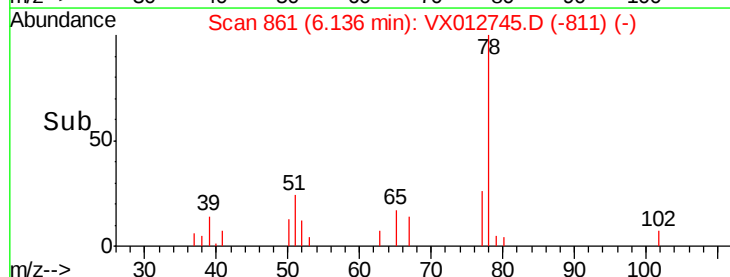
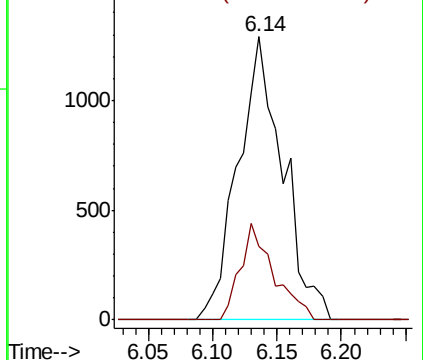


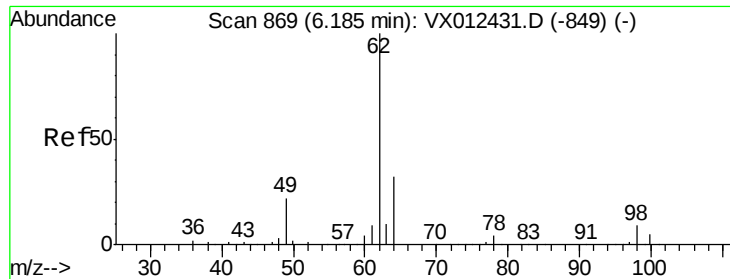
#40
Benzene
Concen: 0.385 ug/l
RT: 6.14 min Scan# 861
Delta R.T. 0.01 min
Lab File: VX012745.D
Acq: 01 Oct 2019 19:55

Tgt Ion: 78 Resp: 3118
Ion Ratio Lower Upper
78 100
77 26.1 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0

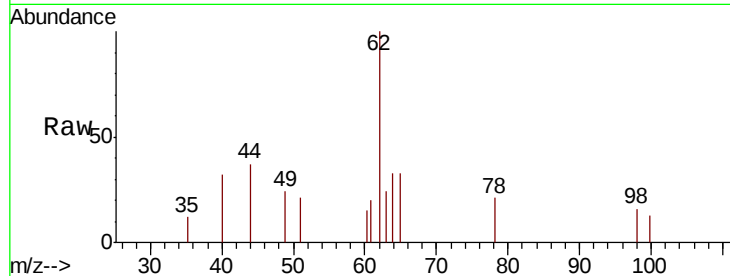




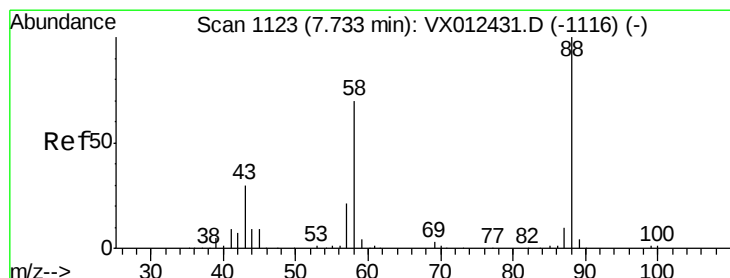
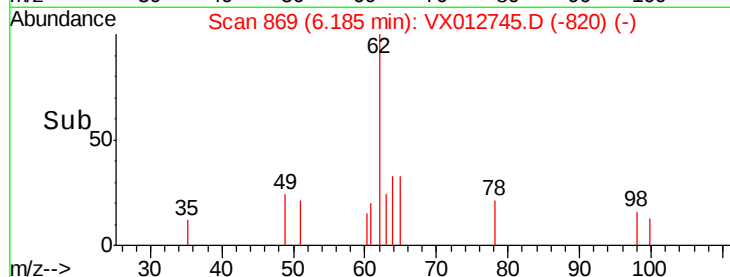
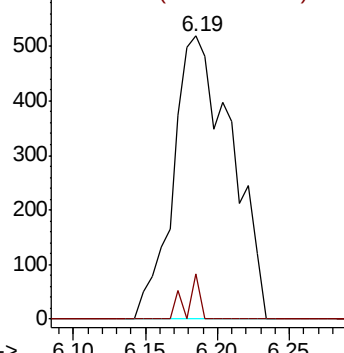
#42
 1,2-Dichloroethane
 Concen: 0.474 ug/l
 RT: 6.19 min Scan# 869
 Delta R.T. 0.00 min
 Lab File: VX012745.D
 Acq: 01 Oct 2019 19:55

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 62 Resp: 1458
 Ion Ratio Lower Upper
 62 100
 98 3.4 0.0 17.8

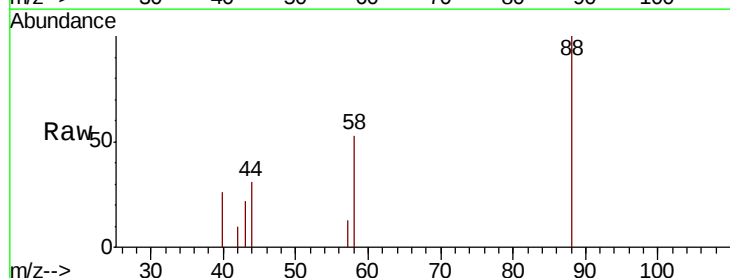


Abundance Ion 61.90 (61.60 to 62.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0

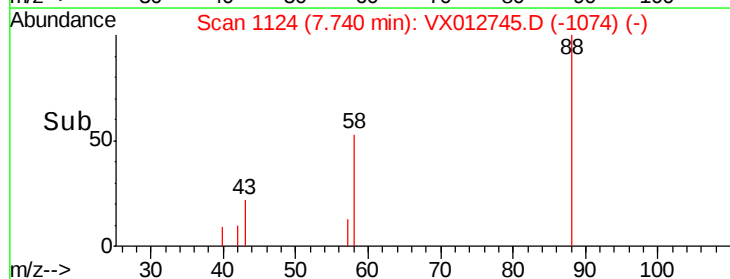
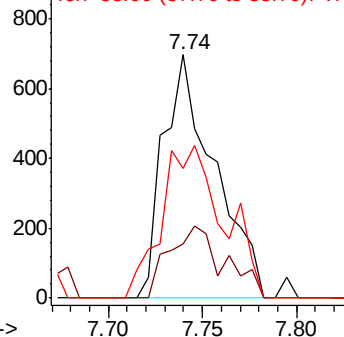


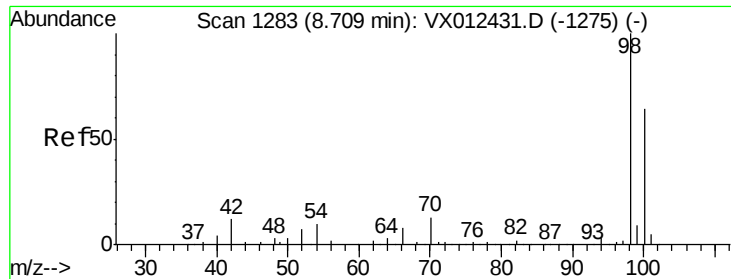
#49
 1,4-Dioxane
 Concen: 22.433 ug/l
 RT: 7.74 min Scan# 1124
 Delta R.T. 0.01 min
 Lab File: VX012745.D
 Acq: 01 Oct 2019 19:55

Tgt Ion: 88 Resp: 1312
 Ion Ratio Lower Upper
 88 100
 43 31.9 29.4 44.0
 58 75.8 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

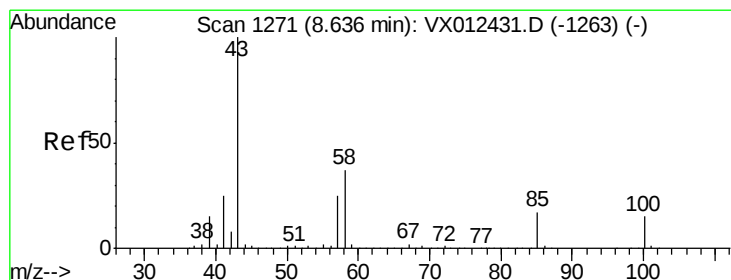
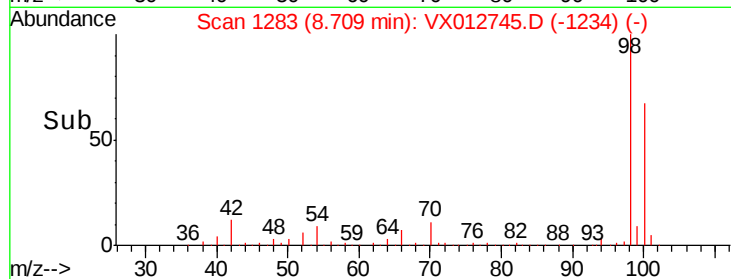
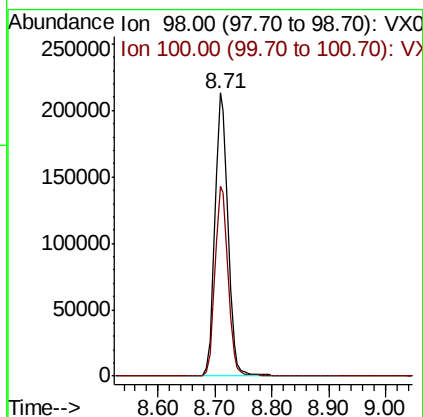
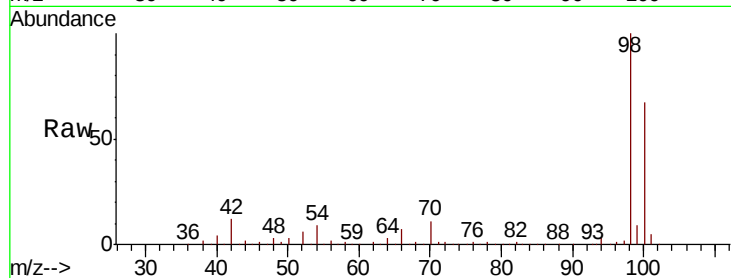




#50
Toluene-d8
Concen: 52.369 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012745.D
Acq: 01 Oct 2019 19:55

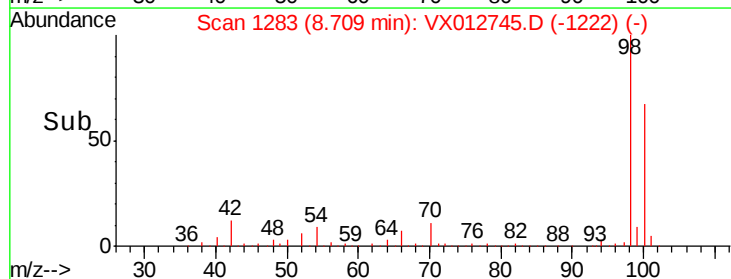
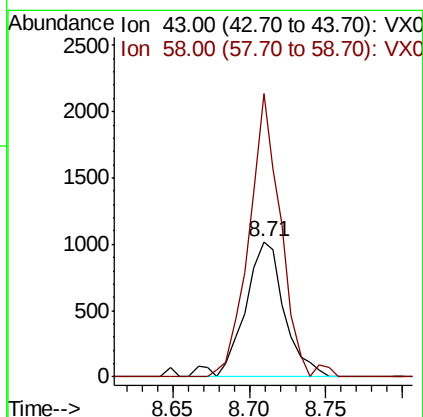
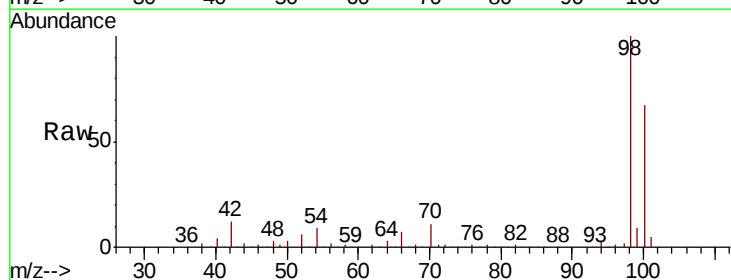
Instrument :
MSVOA_X
ClientSampleId :

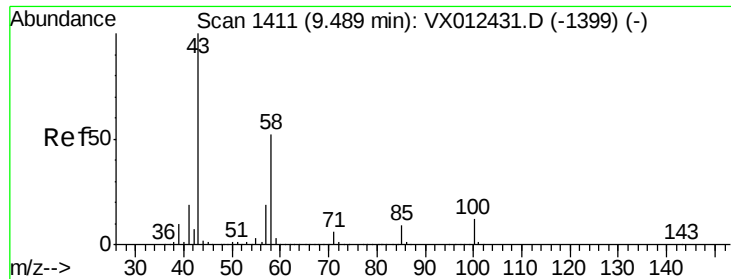
Tot Ion: 98 Resp: 342734
Ion Ratio Lower Upper
98 100
100 67.2 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.552 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX012745.D
Acq: 01 Oct 2019 19:55

Tgt Ion: 43 Resp: 1831
Ion Ratio Lower Upper
43 100
58 168.7 29.8 44.6#

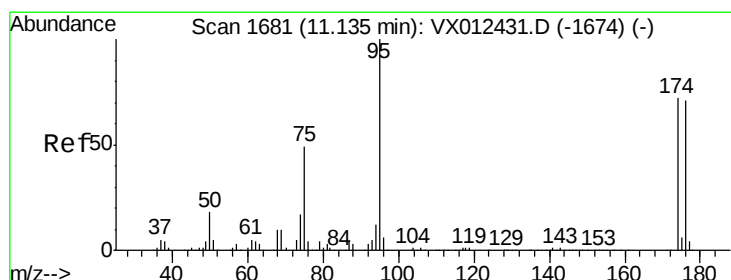
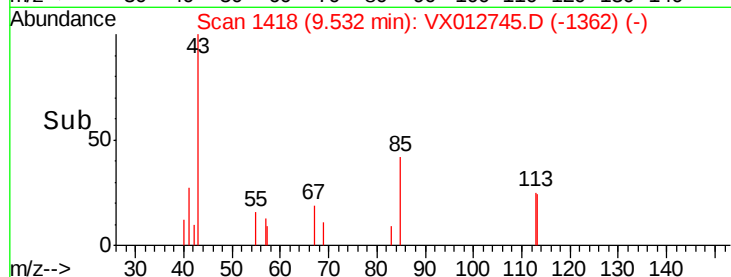
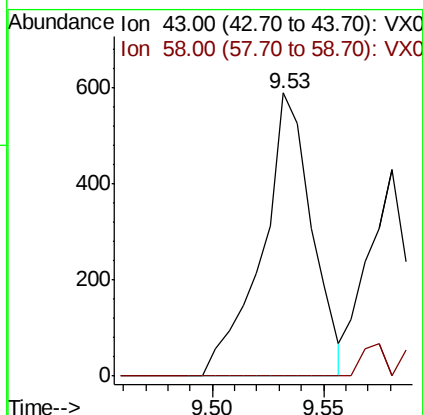
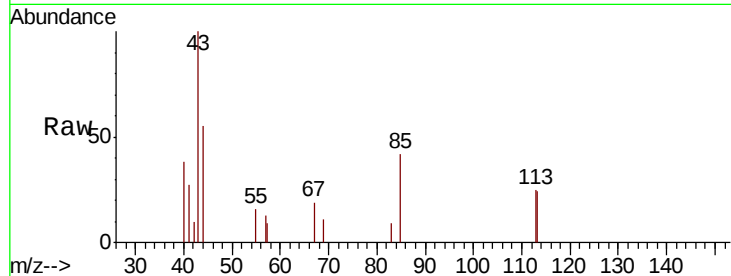




#59
2-Hexanone
Concen: 0.360 ug/l
RT: 9.53 min Scan# 1418
Delta R.T. 0.04 min
Lab File: VX012745.D
Acq: 01 Oct 2019 19:55

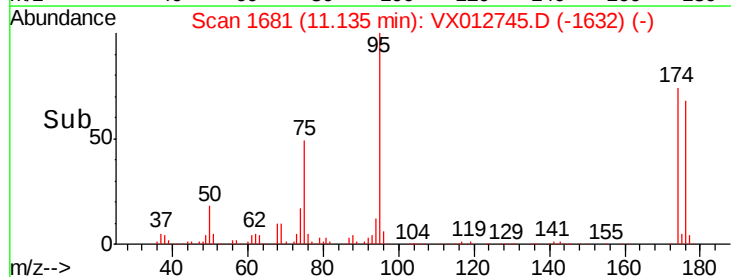
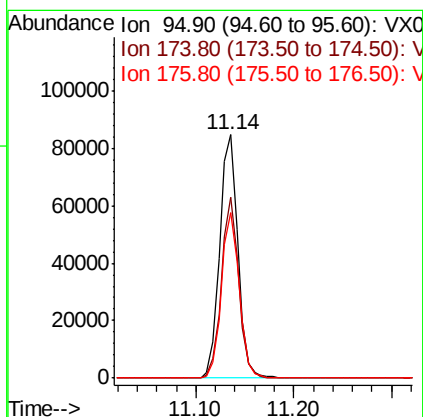
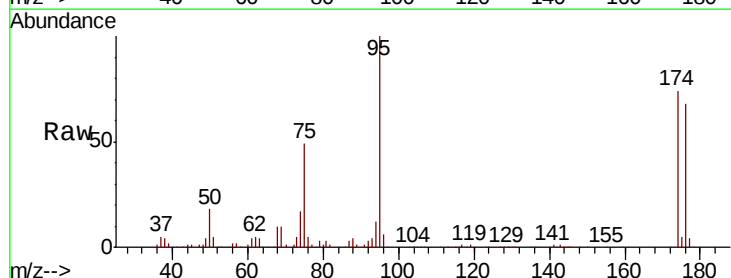
Instrument :
MSVOA_X
ClientSampleId :

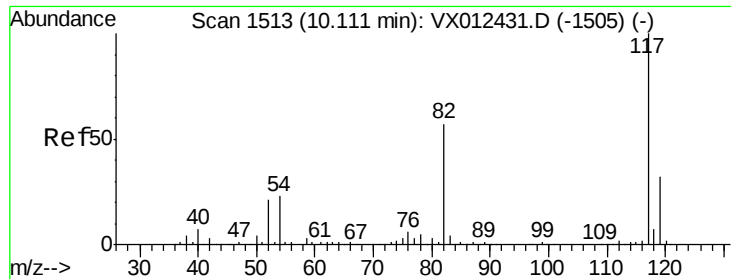
Tot Ion: 43 Resp: 915
Ion Ratio Lower Upper
43 100
58 0.0 25.7 77.1#



#62
4-Bromofluorobenzene
Concen: 42.455 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012745.D
Acq: 01 Oct 2019 19:55

Tgt Ion: 95 Resp: 109252
Ion Ratio Lower Upper
95 100
174 70.5 0.0 140.0
176 67.0 0.0 135.4

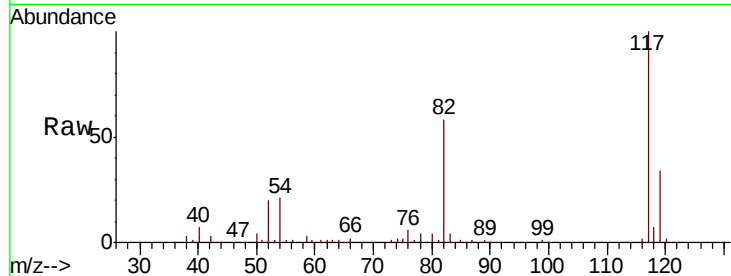




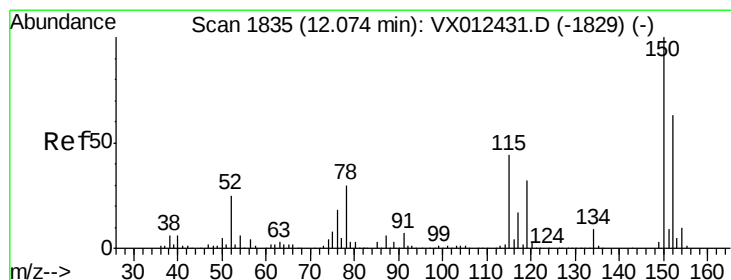
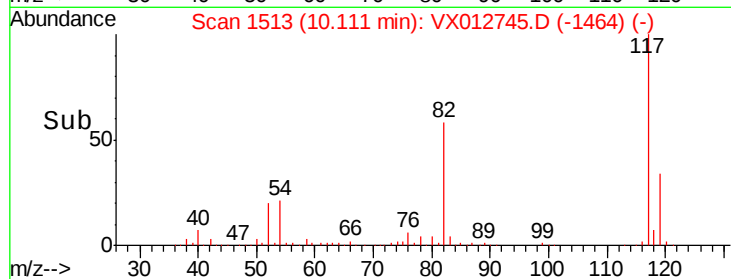
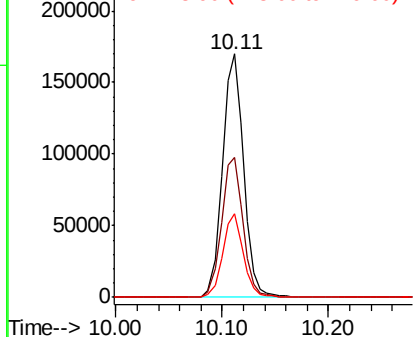
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012745.D
Acq: 01 Oct 2019 19:55

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 236229
Ion Ratio Lower Upper
117 100
82 57.7 45.9 68.9
119 34.2 25.3 37.9

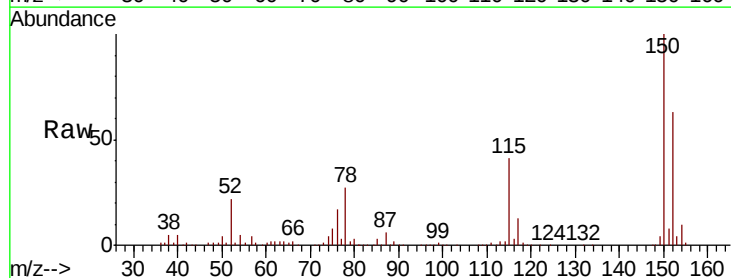


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

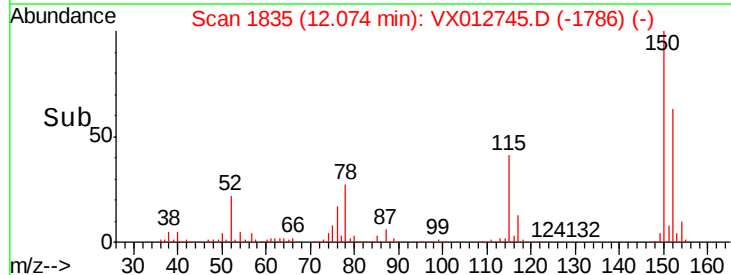
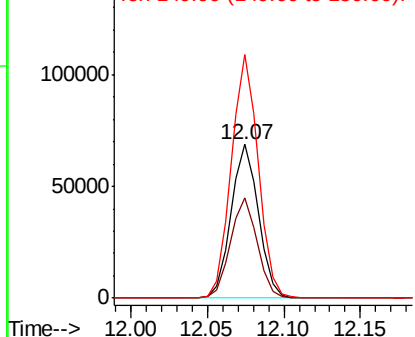


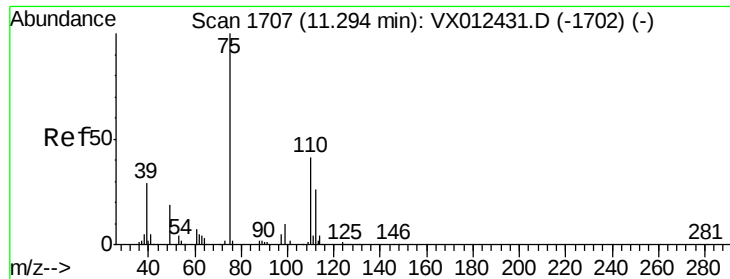
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012745.D
Acq: 01 Oct 2019 19:55

Tgt Ion:152 Resp: 85102
Ion Ratio Lower Upper
152 100
115 64.1 44.1 132.3
150 155.7 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: 25.137 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012745.D

Acq: 01 Oct 2019 19:55

Instrument :

MSVOA_X

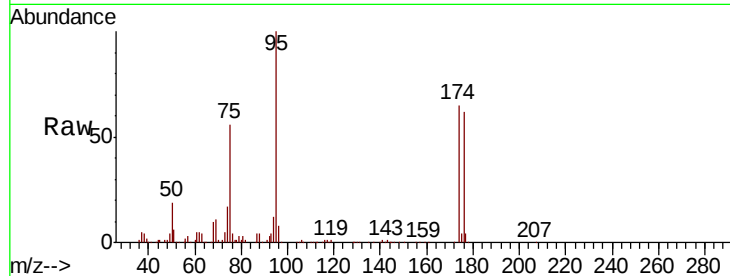
ClientSampleId :

Tot Ion: 75 Resp: 56587

Ion Ratio Lower Upper

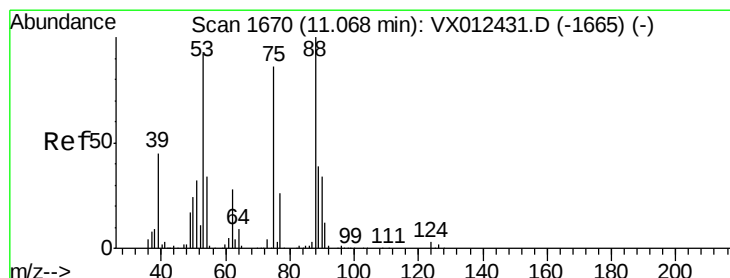
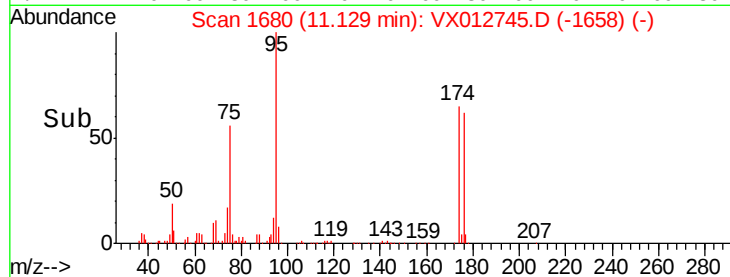
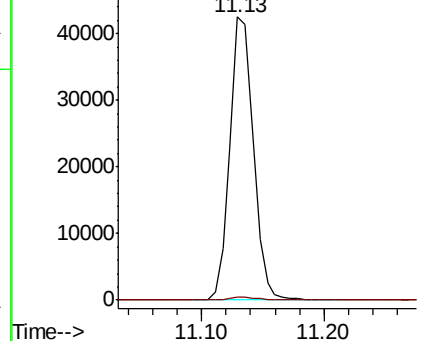
75 100

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: 72.037 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012745.D

Acq: 01 Oct 2019 19:55

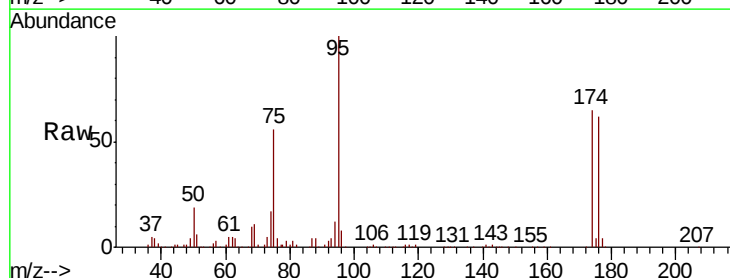
Tgt Ion: 75 Resp: 56587

Ion Ratio Lower Upper

75 100

53 0.6 83.6 125.4#

89 1.8 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

