

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112619\
 Data File : VX013624.D
 Acq On : 27 Nov 2019 01:55
 Operator : JC/SP
 Sample : K5962-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 48BR-20191120

Quant Time: Nov 27 03:48:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

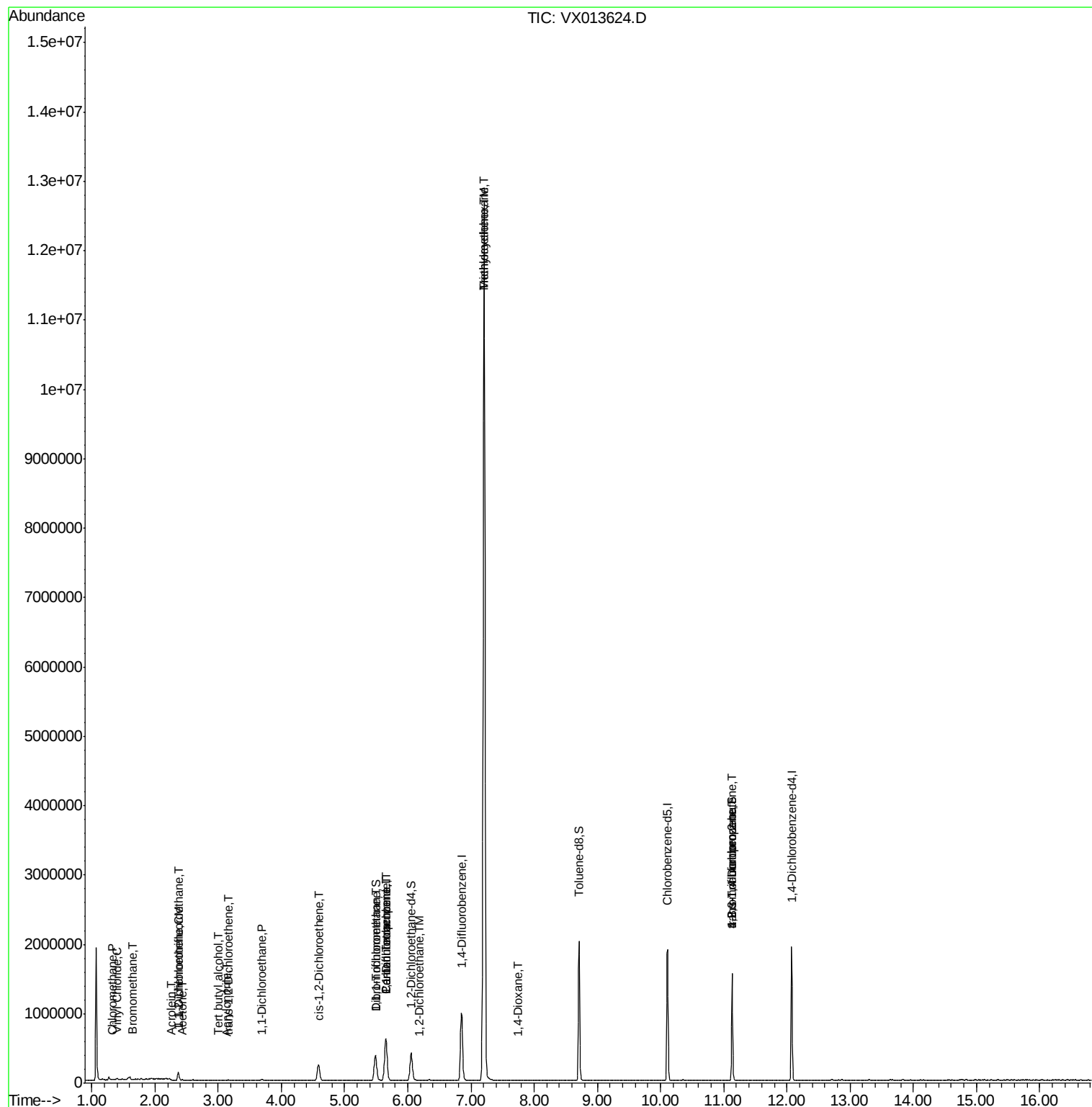
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	638910	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1020169	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	909893	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	406277	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	371715	50.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.24%	
35) Dibromofluoromethane	5.48	113	306358	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	
50) Toluene-d8	8.71	98	1209066	49.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.40%	
62) 4-Bromofluorobenzene	11.14	95	405294	45.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.48%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	2276	0.285	ug/l #	81
4) Vinyl Chloride	1.40	62	6953	0.774	ug/l #	87
5) Bromomethane	1.65	94	1660	0.275	ug/l #	68
9) 1,1,2-Trichlorotrifluoroet	2.38	101	11930	1.958	ug/l	91
11) Tert butyl alcohol	3.01	59	3569	1.950	ug/l #	83
12) 1,1-Dichloroethene	2.37	96	33422	5.497	ug/l	91
13) Acrolein	2.26	56	172	6.141	ug/l #	29
15) Acrylonitrile	3.14	53	1154	0.305	ug/l #	28
16) Acetone	2.44	43	7805	2.132	ug/l #	76
21) trans-1,2-Dichloroethene	3.16	96	3631	0.548	ug/l #	89
24) 1,1-Dichloroethane	3.69	63	12007	1.034	ug/l	94
27) cis-1,2-Dichloroethene	4.59	96	148777	19.558	ug/l	88
32) 1,1,1-Trichloroethane	5.48	97	4302	0.437	ug/l #	38
36) 1,1-Dichloropropene	5.65	75	42314	4.569	ug/l #	52
38) Carbon Tetrachloride	5.65	117	56279	6.591	ug/l #	16
39) Methylcyclohexane	7.21	83	54536	4.764	ug/l #	1
42) 1,2-Dichloroethane	6.19	62	2462	0.256	ug/l	84
44) Trichloroethene	7.21	130	4929165	636.787	ug/l	99
49) 1,4-Dioxane	7.75	88	239	1.285	ug/l #	24
76) 1,2,3-Trichloropropane	11.13	75	196945	21.553	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	196945	58.964	ug/l #	11

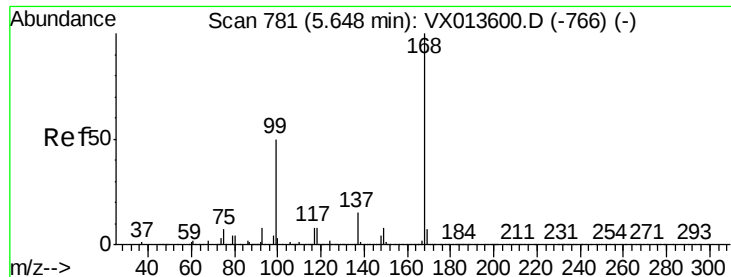
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 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: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampleId :

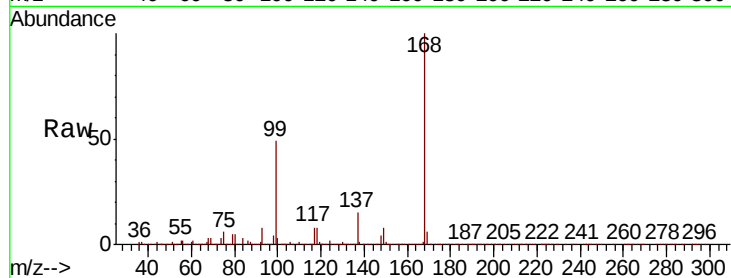
48BR-20191120

Tot Ion:168 Resp: 638910

Ion Ratio Lower Upper

168 100

99 48.9 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

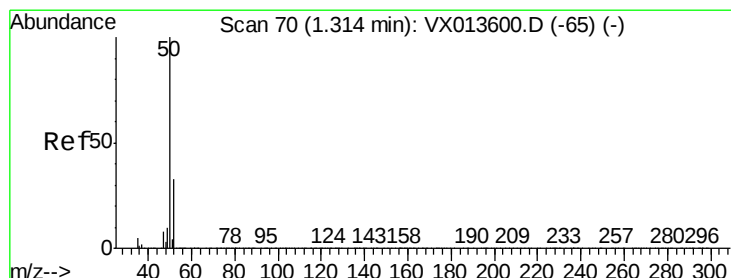
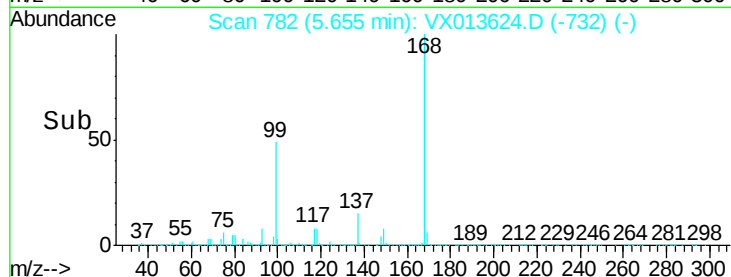
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.285 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013624.D

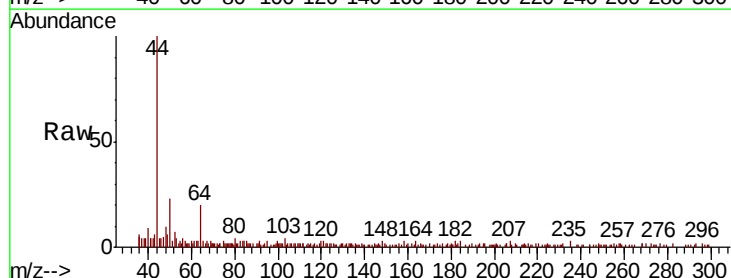
Acq: 27 Nov 2019 01:55

Tgt Ion: 50 Resp: 2276

Ion Ratio Lower Upper

50 100

52 22.1 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2000

1500

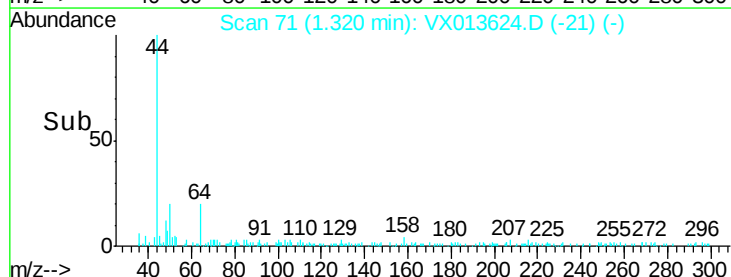
1000

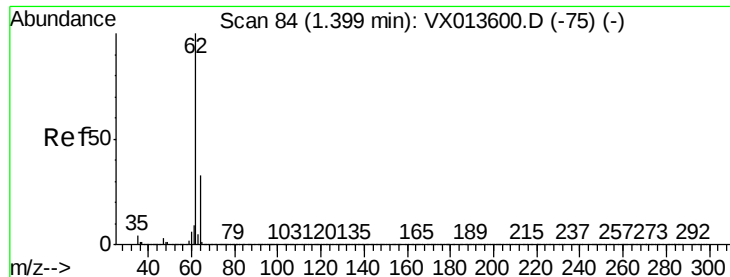
500

0

Time-->

1.30 1.35





#4

Vinyl Chloride

Concen: 0.774 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampleId :

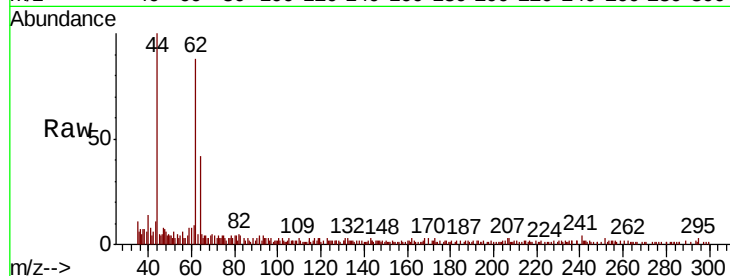
48BR-20191120

Tot Ion: 62 Resp: 6953

Ion Ratio Lower Upper

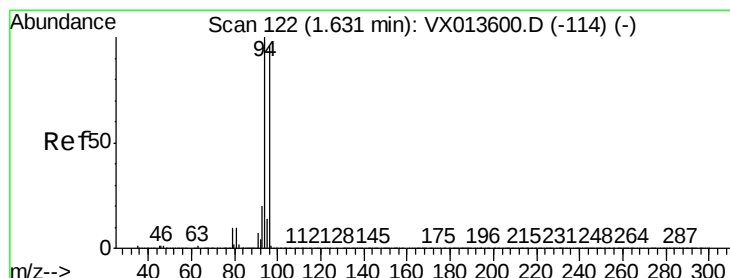
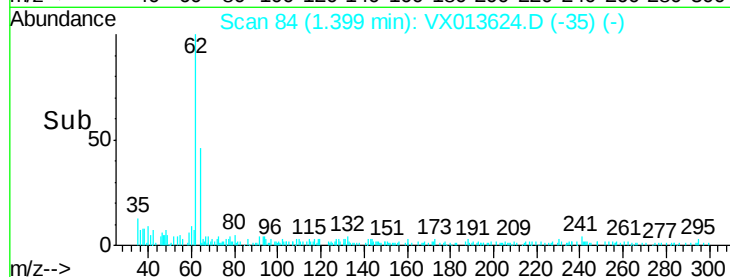
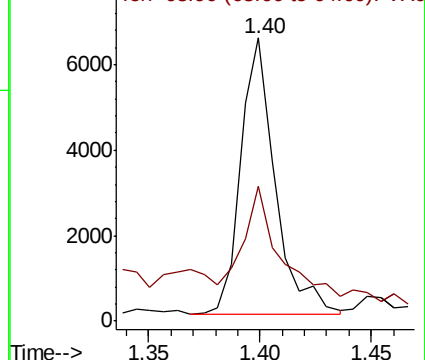
62 100

64 39.6 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.275 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013624.D

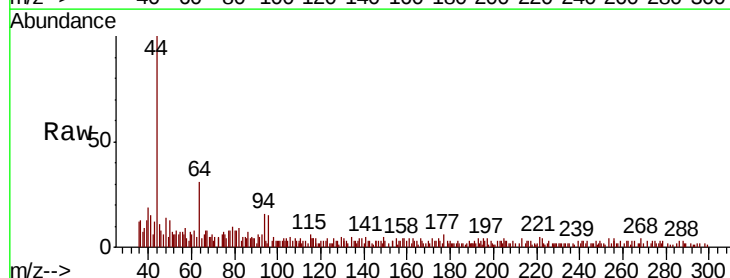
Acq: 27 Nov 2019 01:55

Tgt Ion: 94 Resp: 1660

Ion Ratio Lower Upper

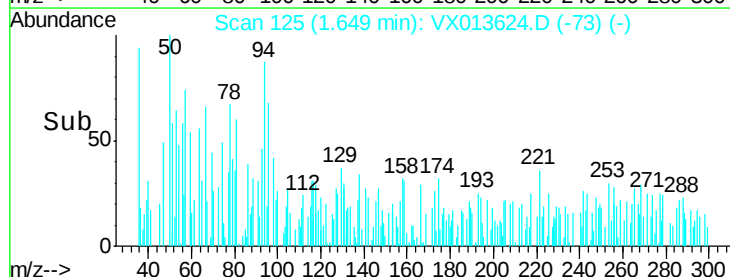
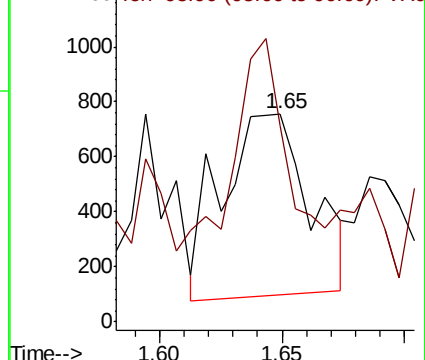
94 100

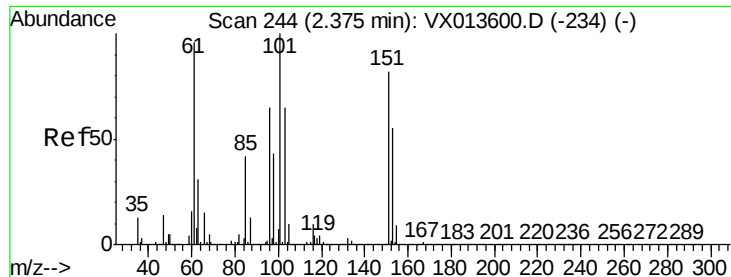
96 65.4 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.958 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.01 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

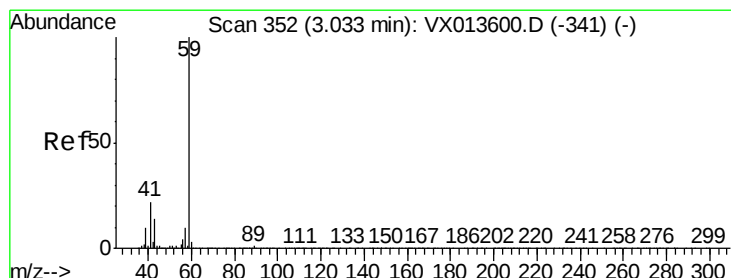
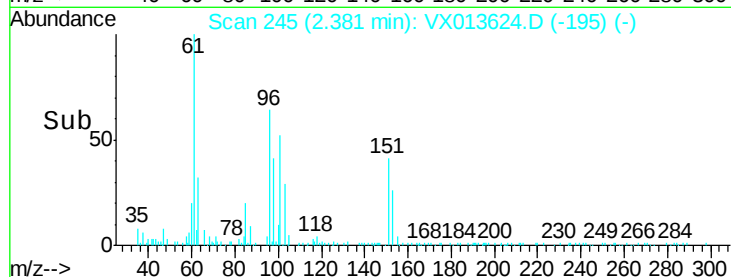
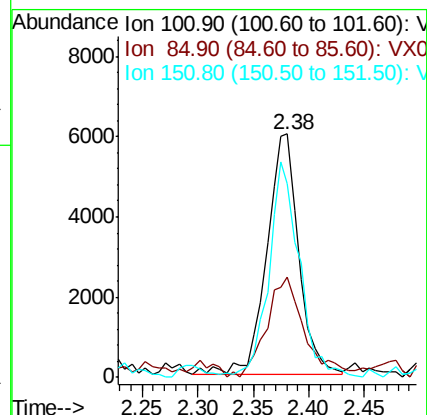
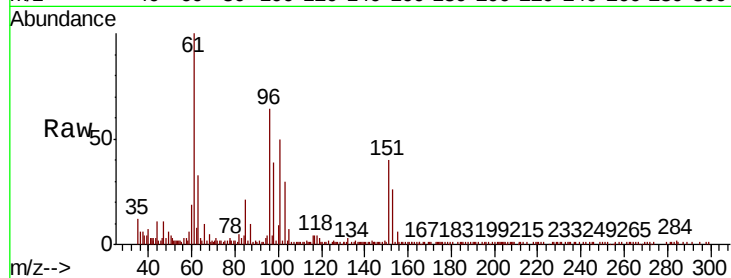
Tot Ion:101 Resp: 11930

Ion Ratio Lower Upper

101 100

85 50.2 33.9 50.9

151 86.3 64.2 96.2



#11

Tert butyl alcohol

Concen: 1.950 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX013624.D

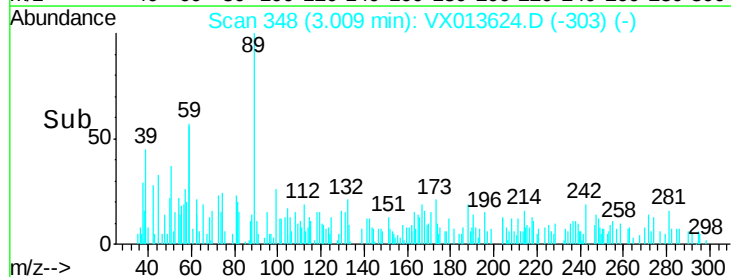
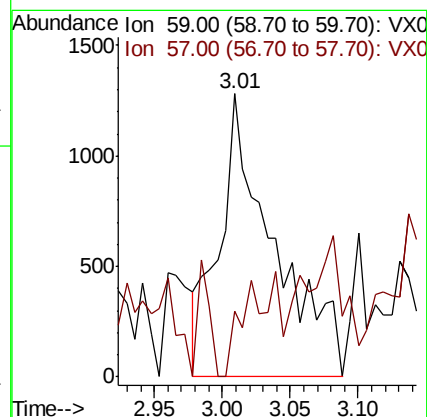
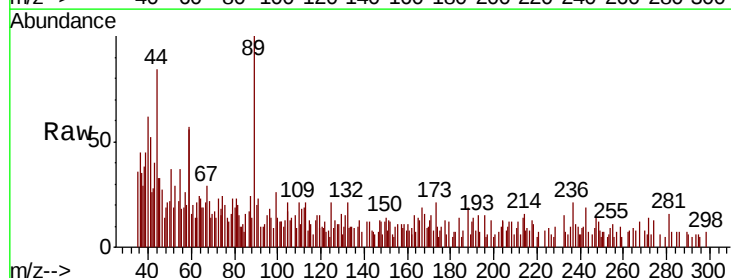
Acq: 27 Nov 2019 01:55

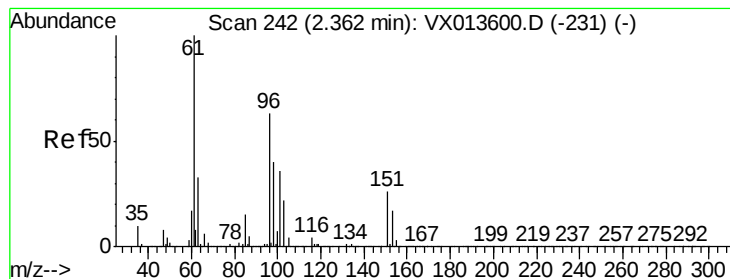
Tgt Ion: 59 Resp: 3569

Ion Ratio Lower Upper

59 100

57 15.8 7.8 11.6#





#12

1,1-Dichloroethene

Concen: 5.497 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

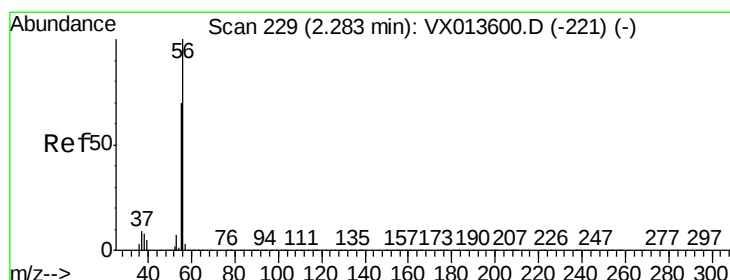
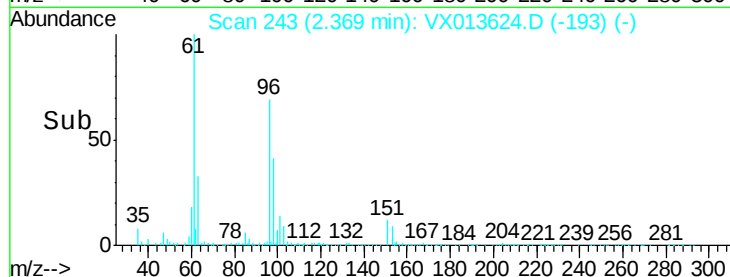
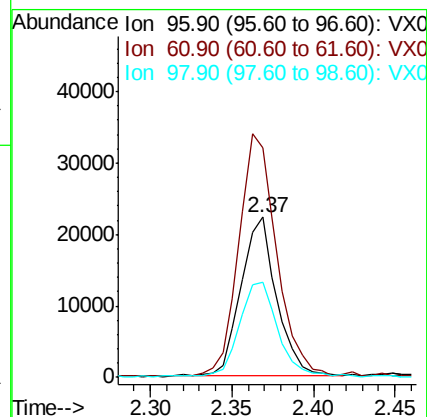
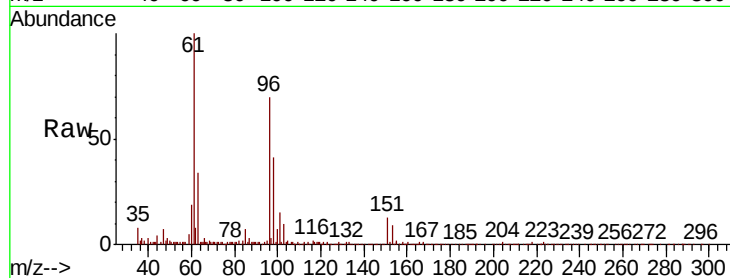
Tot Ion: 96 Resp: 33422

Ion Ratio Lower Upper

96 100

61 143.8 126.6 190.0

98 59.1 50.6 76.0



#13

Acrolein

Concen: 6.141 ug/l

RT: 2.26 min Scan# 225

Delta R.T. -0.02 min

Lab File: VX013624.D

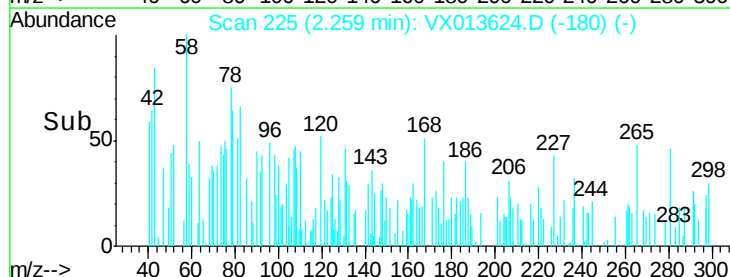
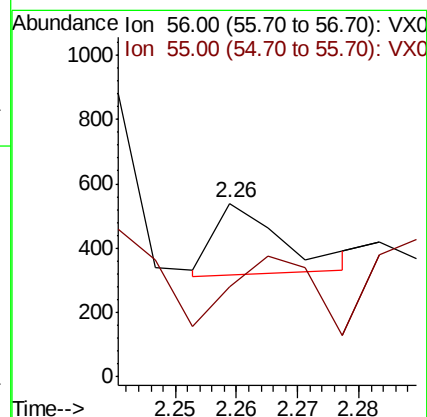
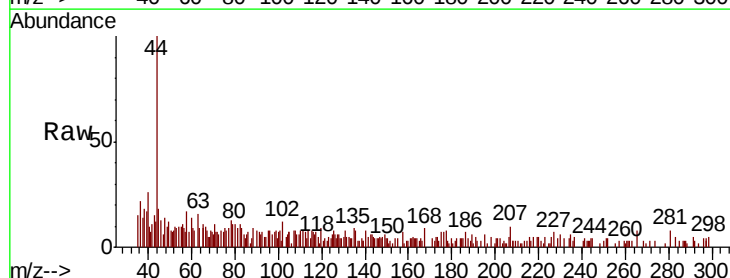
Acq: 27 Nov 2019 01:55

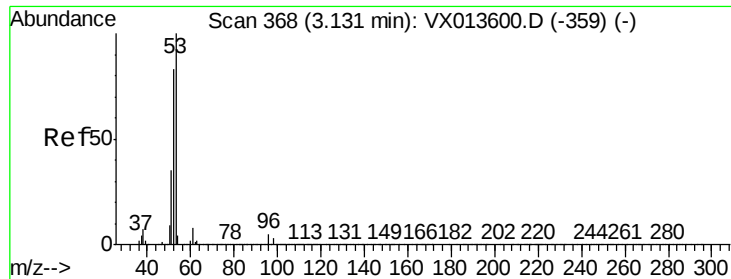
Tgt Ion: 56 Resp: 172

Ion Ratio Lower Upper

56 100

55 129.1 56.2 84.4#





#15

Acrylonitrile

Concen: 0.305 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampled :

48BR-20191120

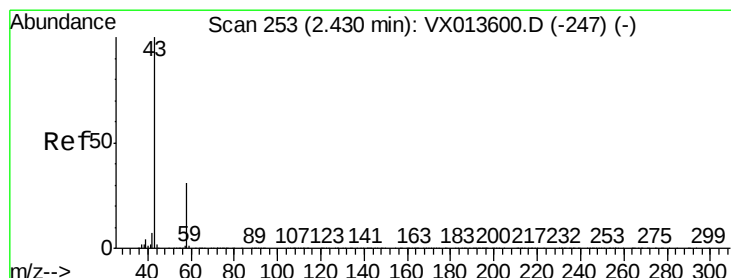
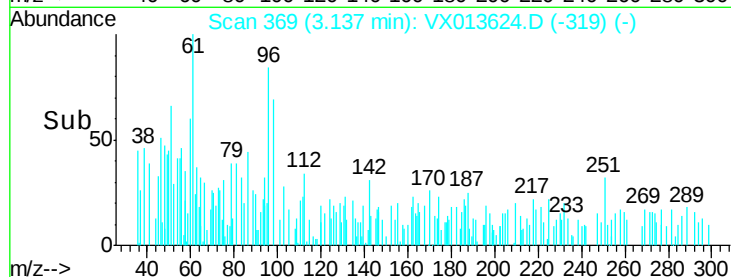
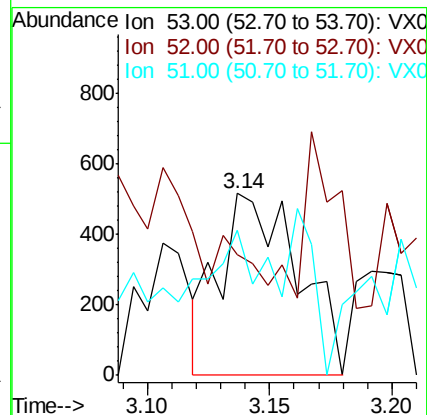
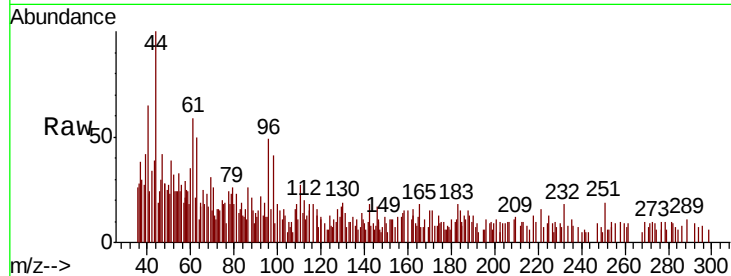
Tot Ion: 53 Resp: 1154

Ion Ratio Lower Upper

53 100

52 0.0 66.2 99.2#

51 19.9 29.0 43.6#



#16

Acetone

Concen: 2.132 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013624.D

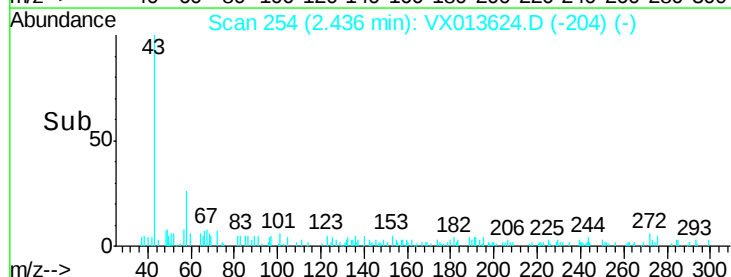
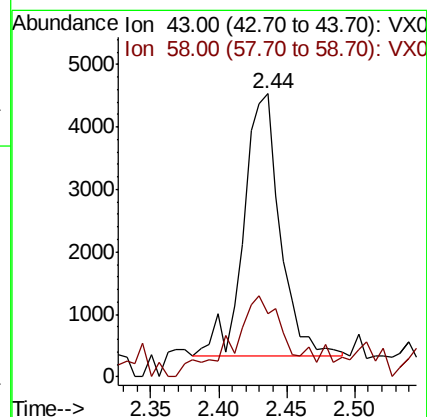
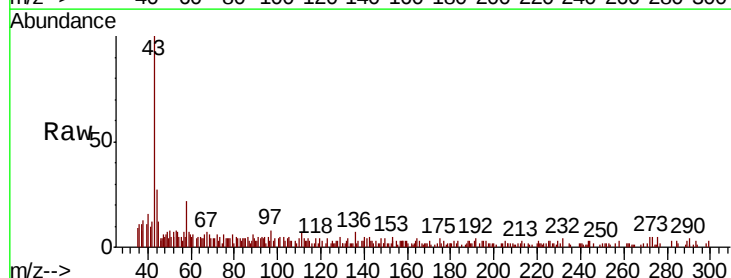
Acq: 27 Nov 2019 01:55

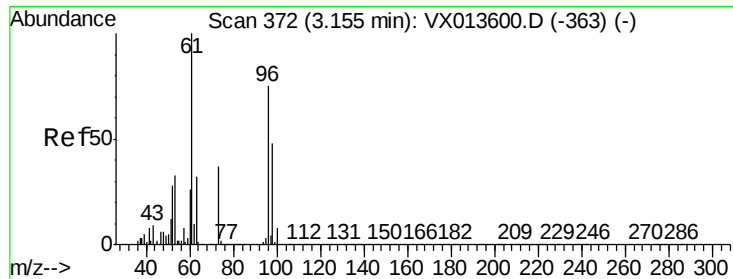
Tgt Ion: 43 Resp: 7805

Ion Ratio Lower Upper

43 100

58 17.7 24.6 36.8#





#21

trans-1,2-Dichloroethene

Concen: 0.548 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

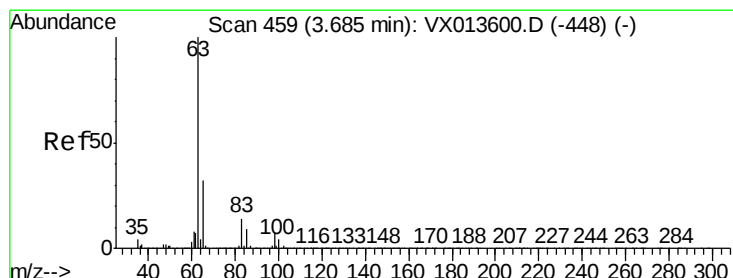
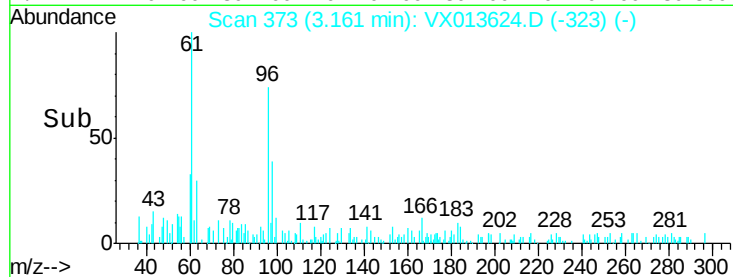
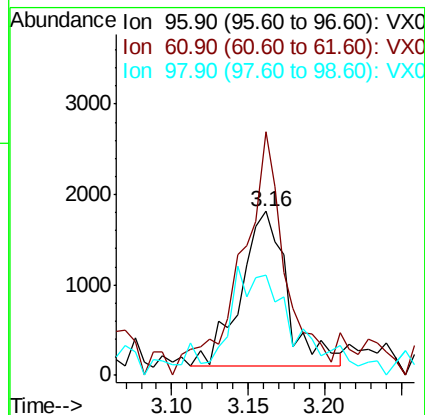
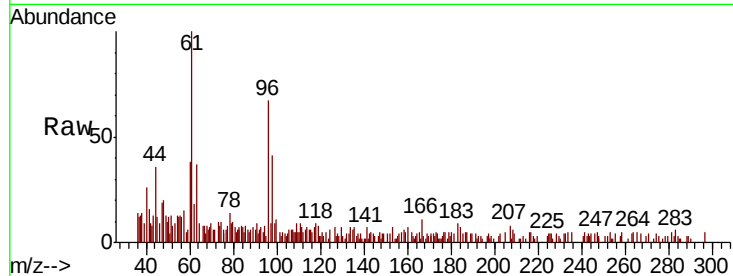
Tot Ion: 96 Resp: 3631

Ion Ratio Lower Upper

96 100

61 129.3 107.2 160.8

98 44.9 51.4 77.0#



#24

1,1-Dichloroethane

Concen: 1.034 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

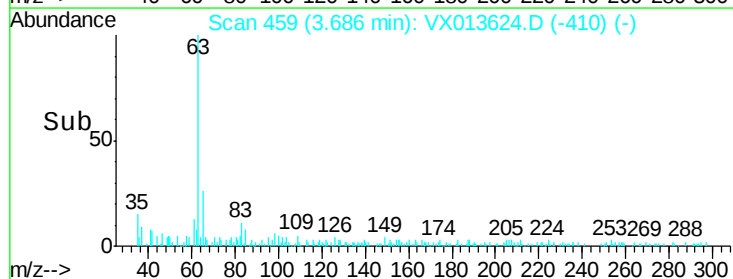
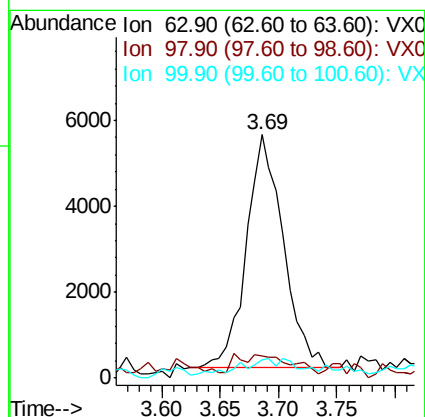
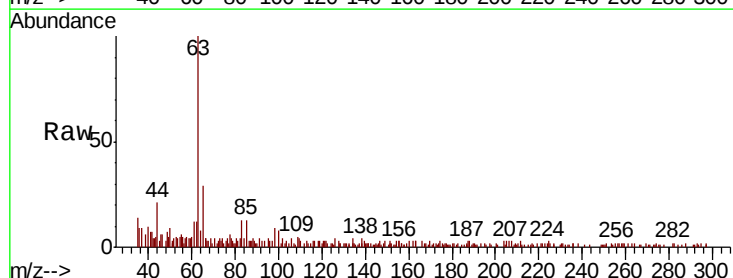
Tgt Ion: 63 Resp: 12007

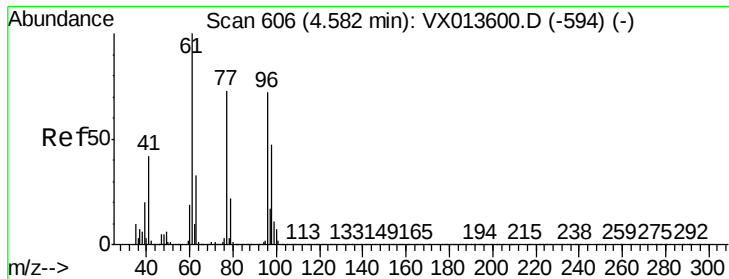
Ion Ratio Lower Upper

63 100

98 4.8 3.5 10.4

100 6.3 2.1 6.3



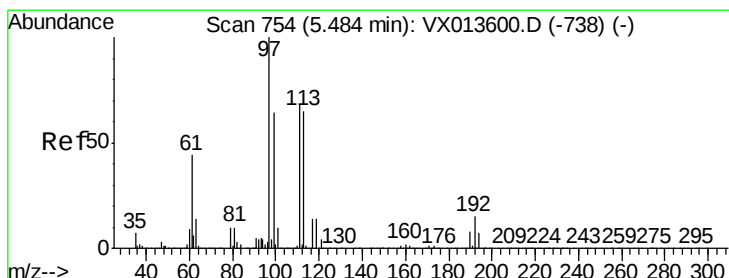
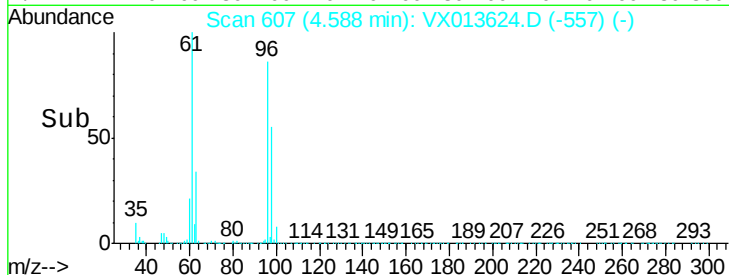
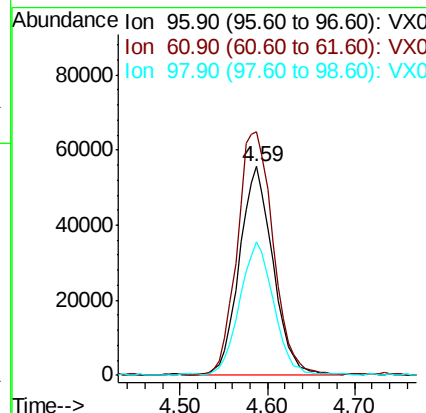
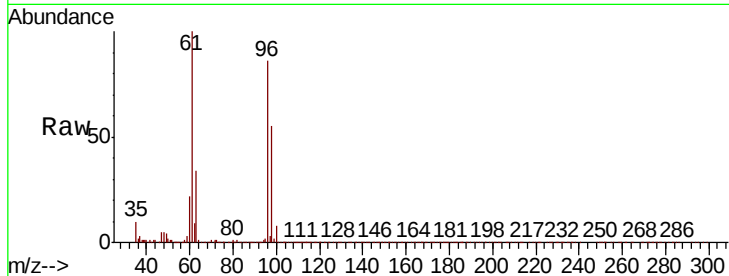


#27

cis-1,2-Dichloroethene
Concen: 19.558 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013624.D
Acq: 27 Nov 2019 01:55

Instrument :
MSVOA_X
ClientSampleId :
48BR-20191120

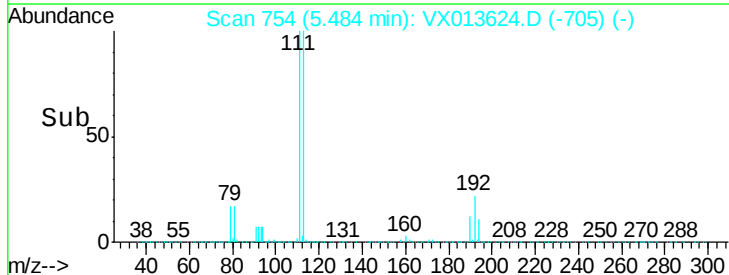
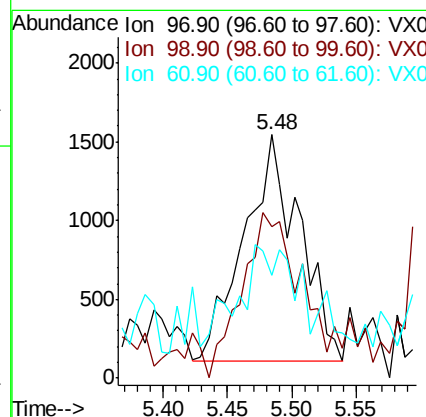
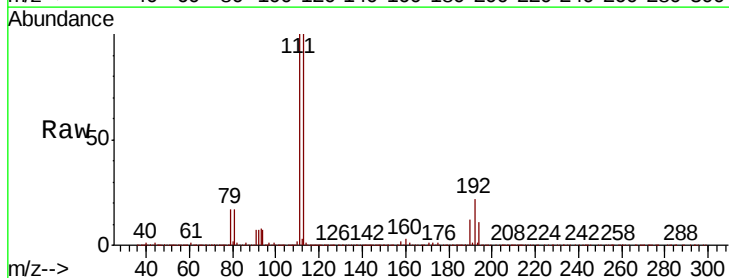
Tot Ion	Ratio	Lower	Upper
96	100		
61	123.7	0.0	286.4
98	65.2	0.0	127.4

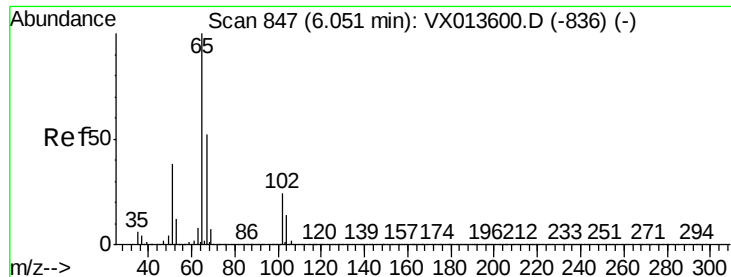


#32

1,1,1-Trichloroethane
Concen: 0.437 ug/l
RT: 5.48 min Scan# 754
Delta R.T. 0.00 min
Lab File: VX013624.D
Acq: 27 Nov 2019 01:55

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.6	77.4#
61	22.6	36.1	54.1#





#33

1,2-Dichloroethane-d4

Concen: 50.121 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampleId :

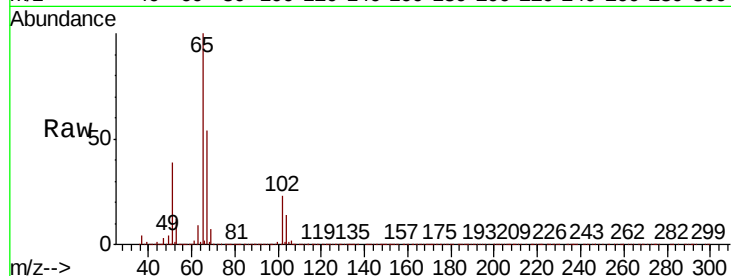
48BR-20191120

Tot Ion: 65 Resp: 371715

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

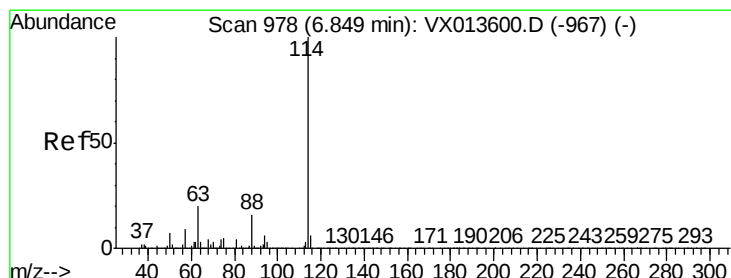
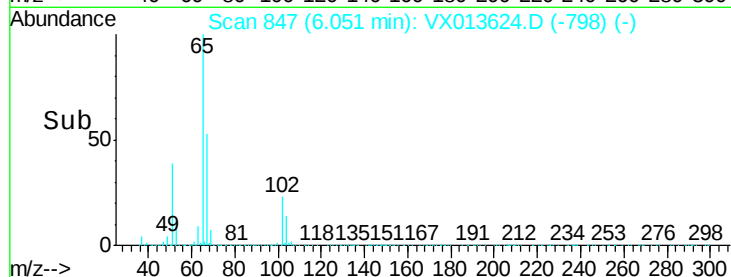
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

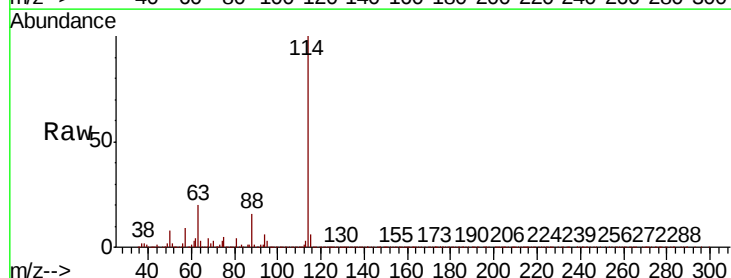
Tgt Ion: 114 Resp: 1020169

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 15.8 0.0 31.4



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

6.85

600000

500000

400000

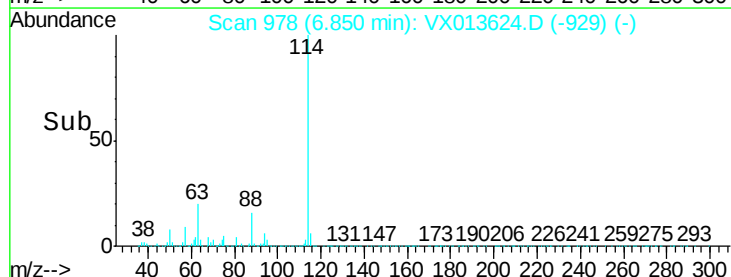
300000

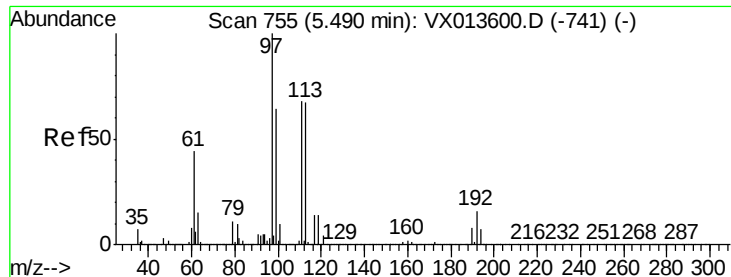
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 48.576 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

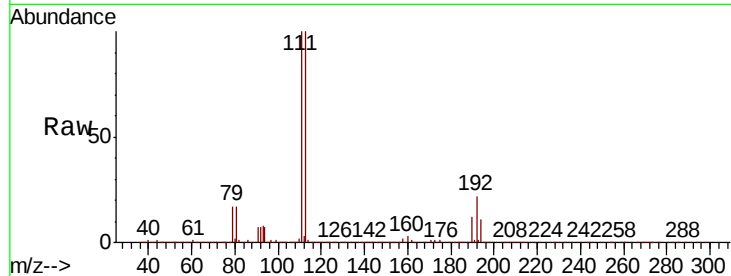
Tot Ion:113 Resp: 306358

Ion Ratio Lower Upper

113 100

111 104.0 83.6 125.4

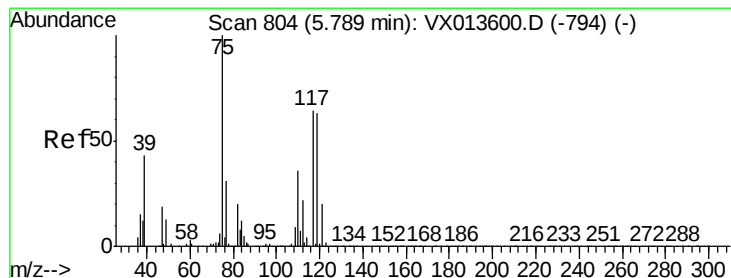
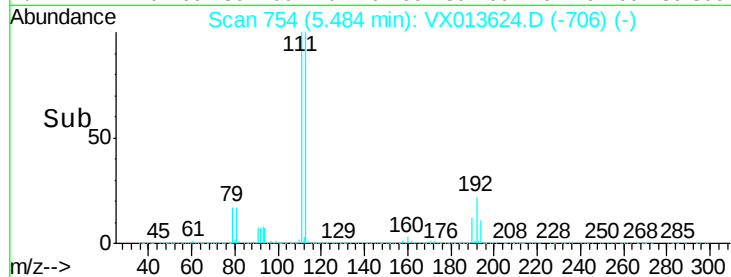
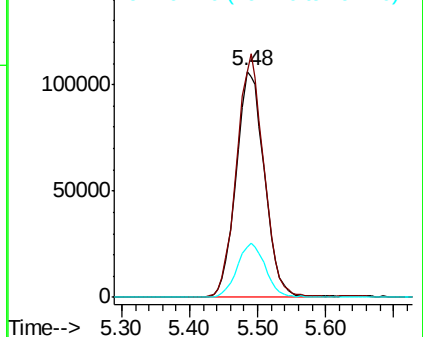
192 23.9 19.2 28.8



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: 4.569 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

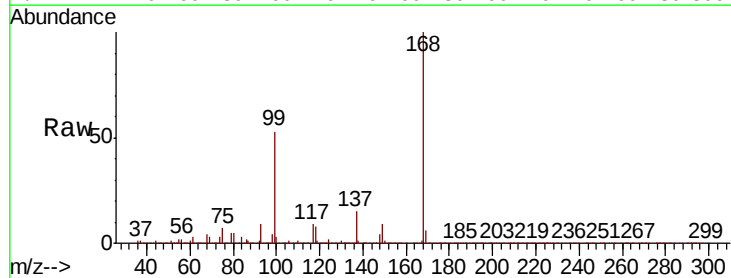
Tgt Ion: 75 Resp: 42314

Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.1#

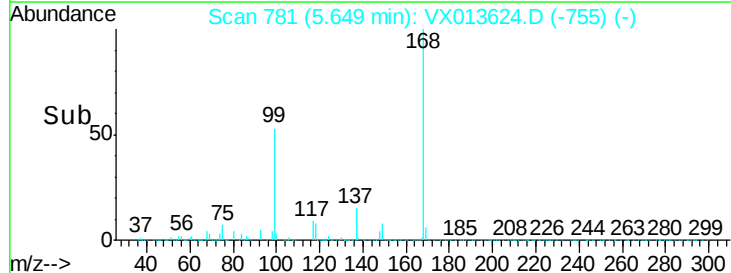
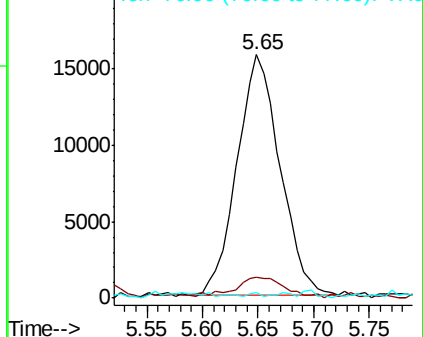
77 0.9 24.5 36.7#

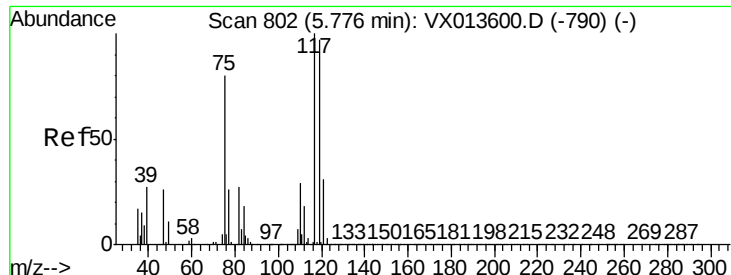


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.591 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

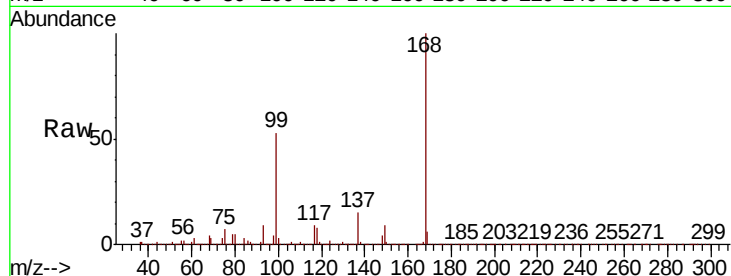
Tot Ion:117 Resp: 56279

Ion Ratio Lower Upper

117 100

119 5.1 77.5 116.3#

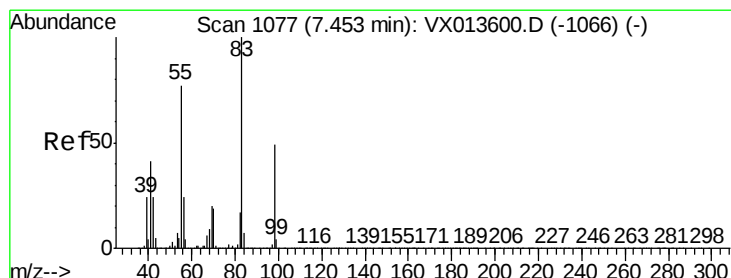
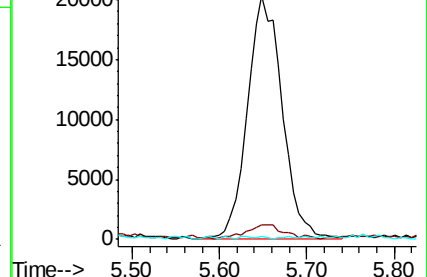
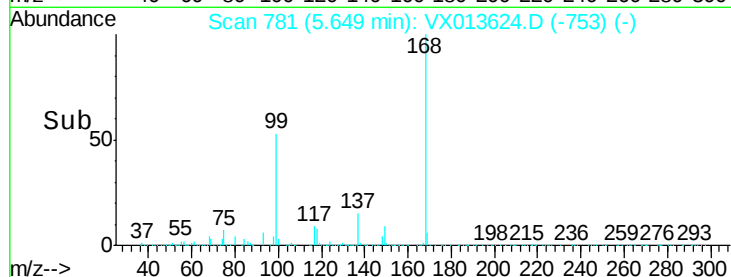
121 1.2 25.0 37.6#



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



#39

Methylcyclohexane

Concen: 4.764 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.24 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

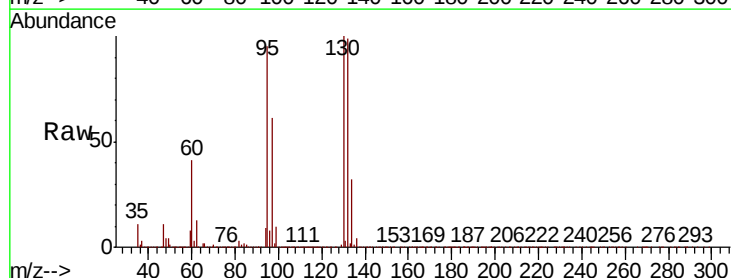
Tgt Ion: 83 Resp: 54536

Ion Ratio Lower Upper

83 100

55 0.1 61.9 92.9#

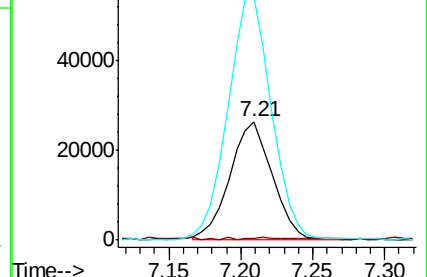
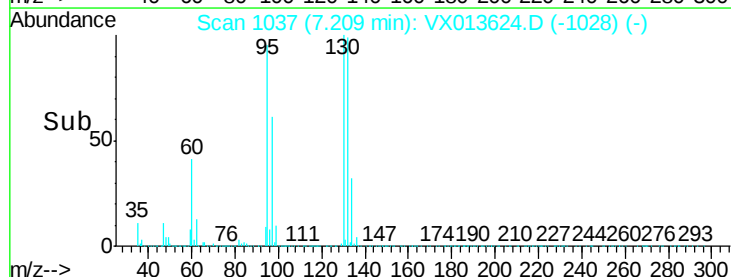
98 204.4 39.4 59.0#

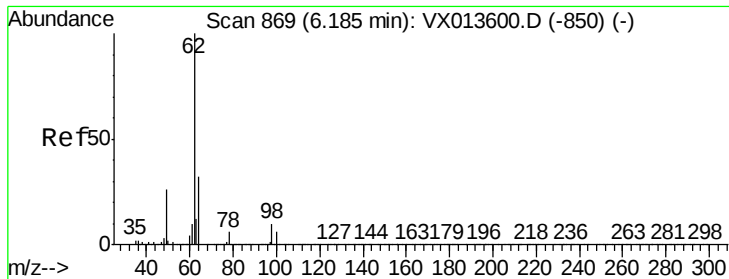


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#42

1,2-Dichloroethane

Concen: 0.256 ug/l

RT: 6.19 min Scan# 869

Delta R.T. 0.00 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampleId :

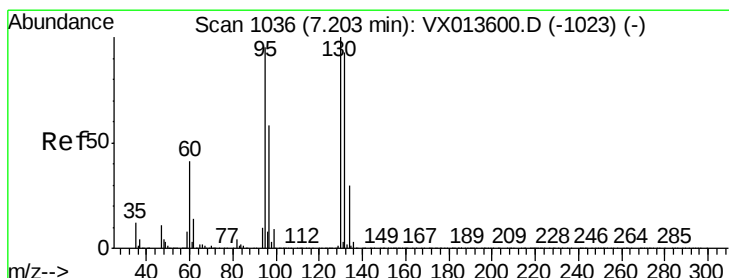
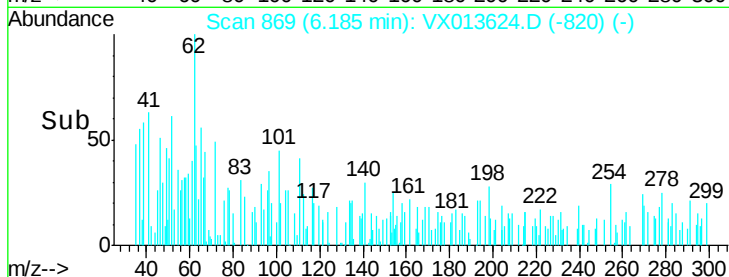
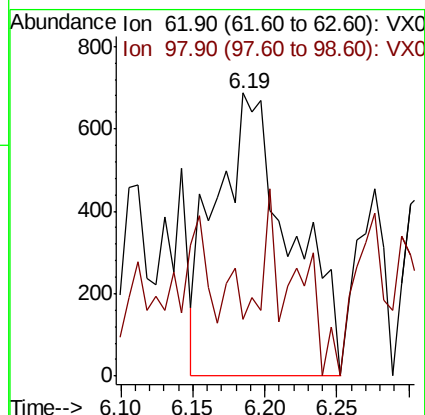
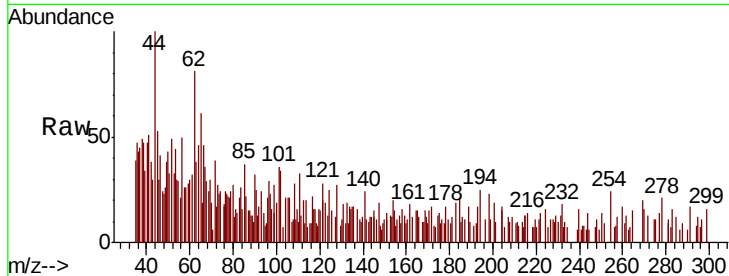
48BR-20191120

Tot Ion: 62 Resp: 2462

Ion Ratio Lower Upper

62 100

98 4.3 0.0 20.8



#44

Trichloroethene

Concen: 636.787 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013624.D

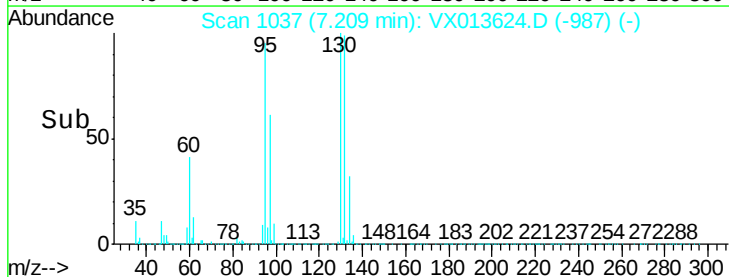
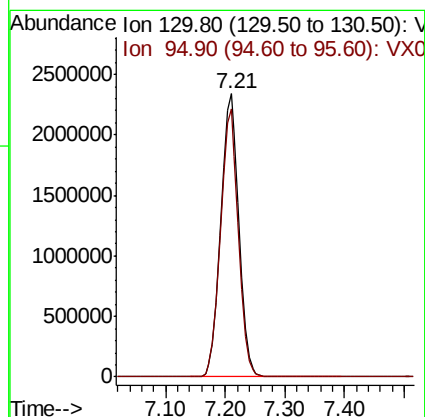
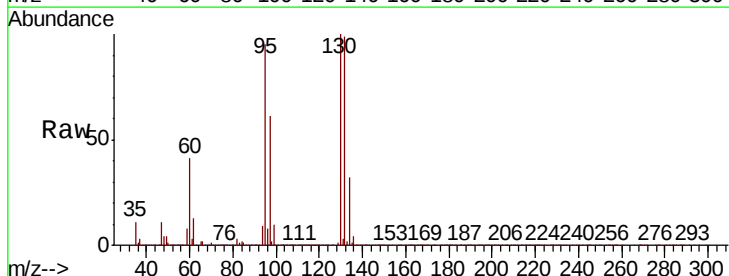
Acq: 27 Nov 2019 01:55

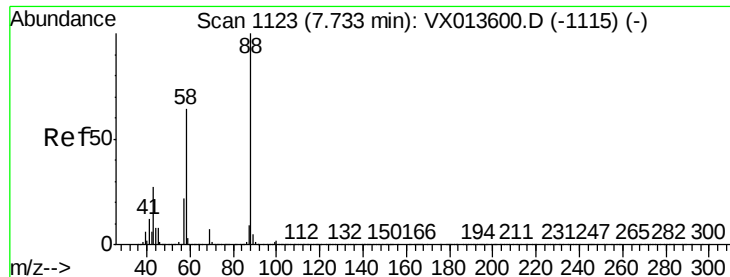
Tgt Ion:130 Resp: 4929165

Ion Ratio Lower Upper

130 100

95 94.8 0.0 190.8





#49

1,4-Dioxane

Concen: 1.285 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

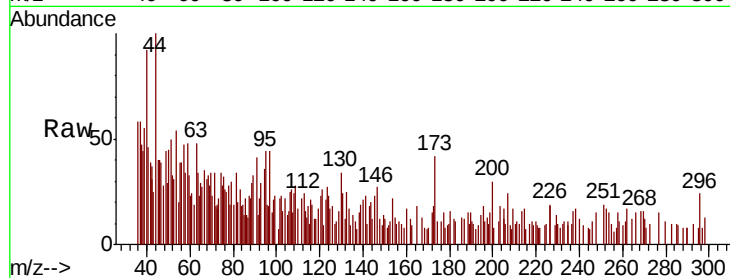
Tot Ion: 88 Resp: 239

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 0.0 54.6 82.0#



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

800

600

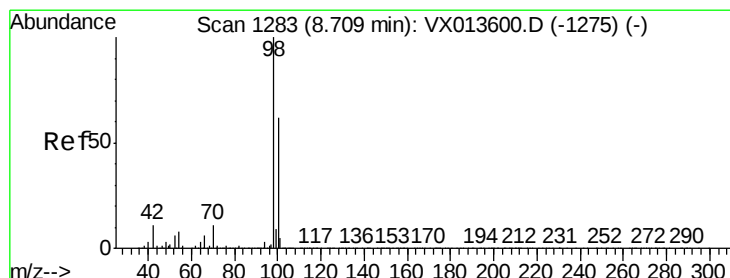
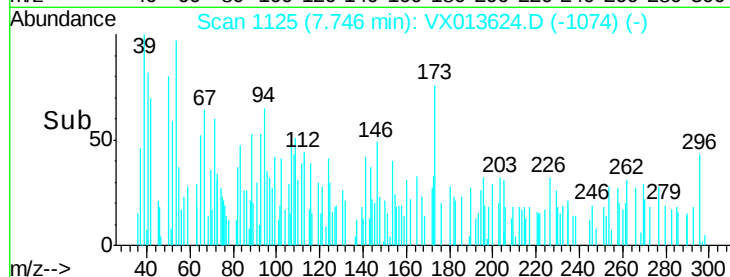
400

200

0

7.72 7.74 7.76

Time-->



#50

Toluene-d8

Concen: 49.205 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013624.D

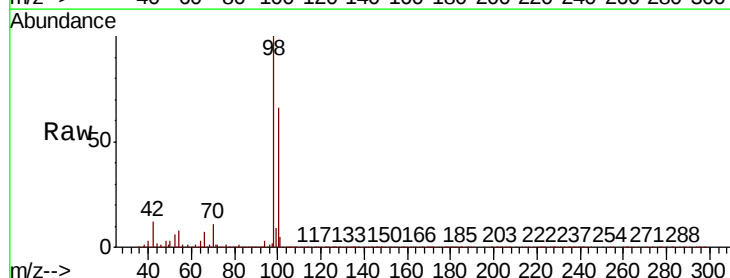
Acq: 27 Nov 2019 01:55

Tgt Ion: 98 Resp: 1209066

Ion Ratio Lower Upper

98 100

100 65.8 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

800000

600000

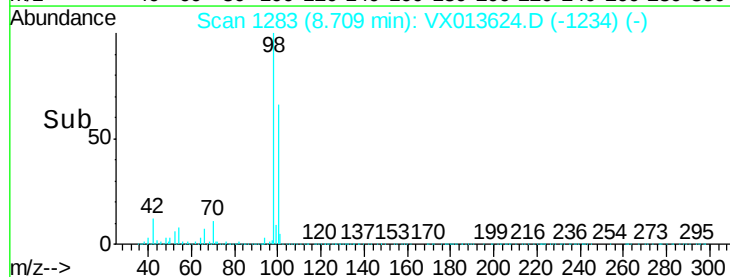
400000

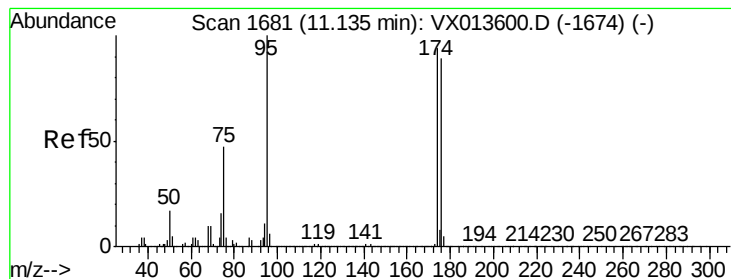
200000

0

8.60 8.70 8.80 8.90

Time-->





#62

4-Bromofluorobenzene

Concen: 45.740 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

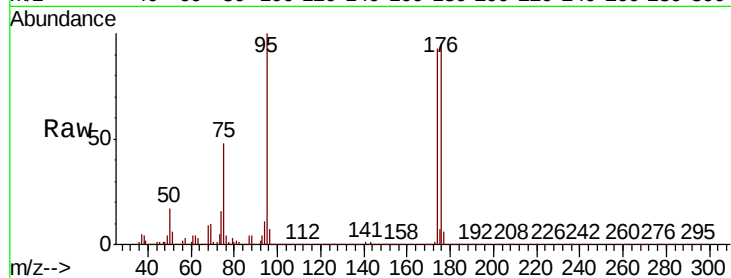
Tot Ion: 95 Resp: 405294

Ion Ratio Lower Upper

95 100

174 90.3 0.0 180.0

176 88.6 0.0 173.6

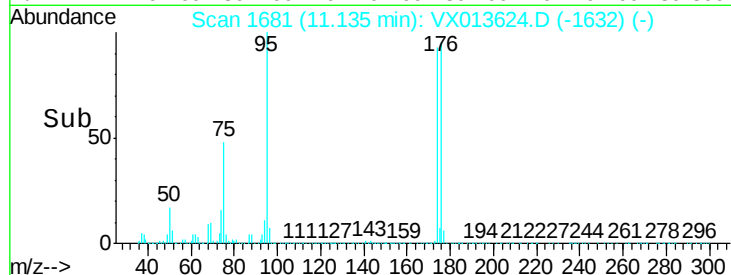


Abundance Ion 94.90 (94.60 to 95.60): VX013624.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013624.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013624.D (-1674) (-)

Time-->

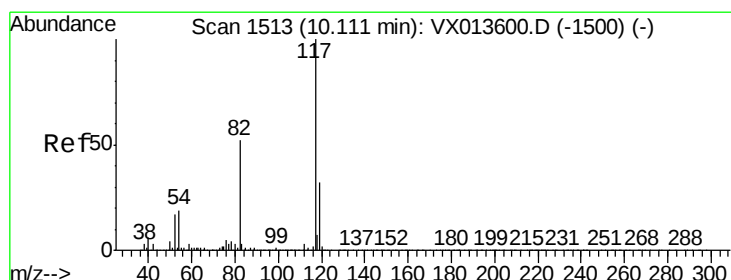


Abundance Ion 94.90 (94.60 to 95.60): VX013624.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX013624.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX013624.D (-1632) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

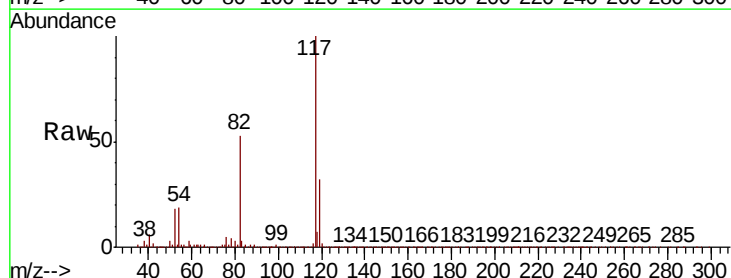
Tgt Ion: 117 Resp: 909893

Ion Ratio Lower Upper

117 100

82 53.3 41.8 62.8

119 32.3 25.8 38.8

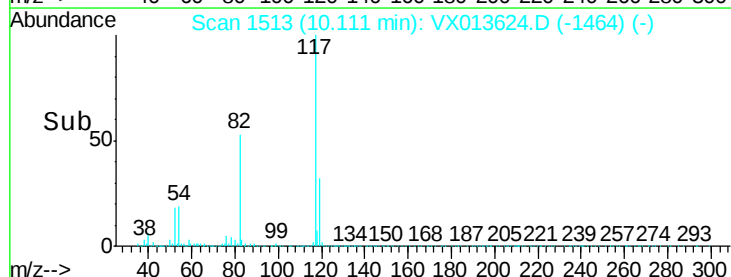


Abundance Ion 116.90 (116.60 to 117.60): VX013624.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013624.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013624.D (-1464) (-)

Time-->

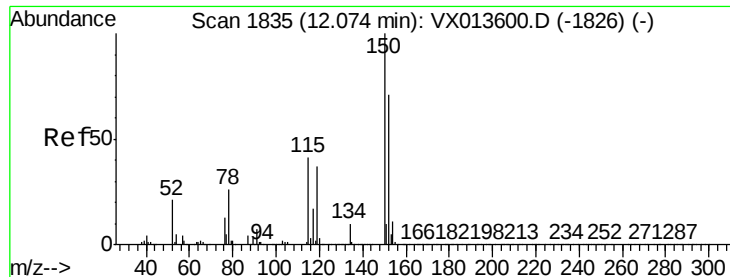


Abundance Ion 116.90 (116.60 to 117.60): VX013624.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013624.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013624.D (-1464) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

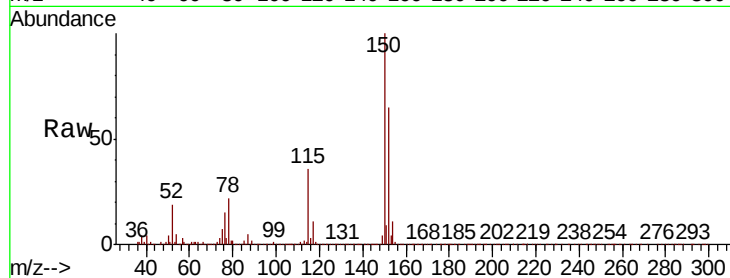
Tot Ion:152 Resp: 406277

Ion Ratio Lower Upper

152 100

115 54.8 38.4 115.1

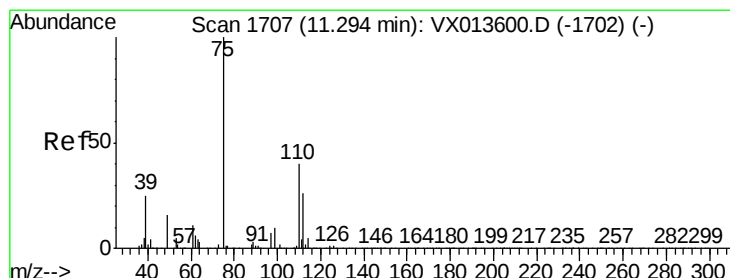
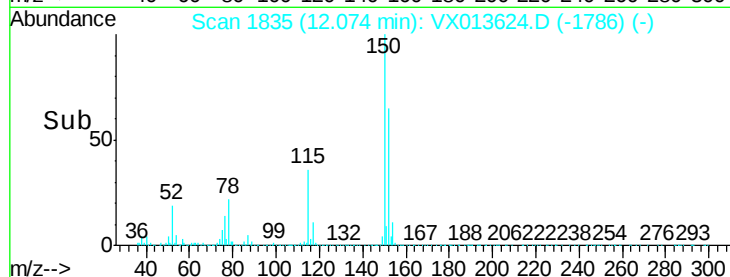
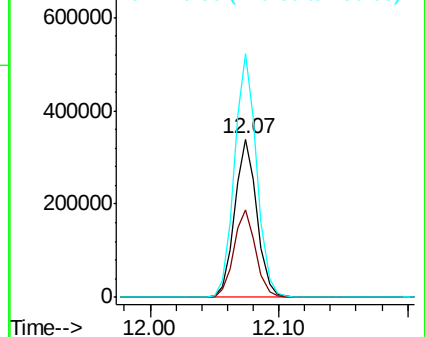
150 154.4 0.0 346.8



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: 21.553 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013624.D

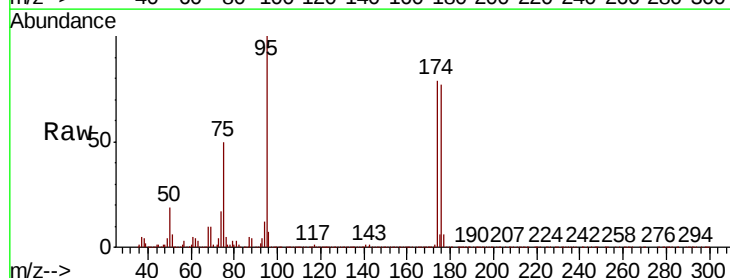
Acq: 27 Nov 2019 01:55

Tgt Ion: 75 Resp: 196945

Ion Ratio Lower Upper

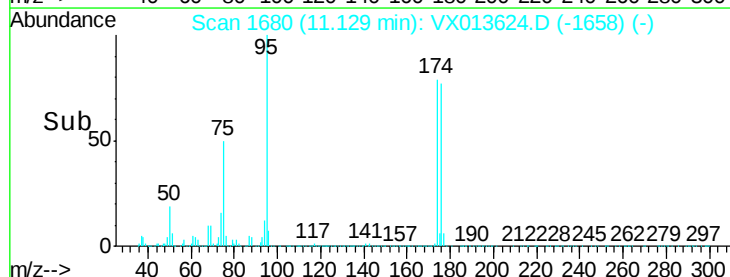
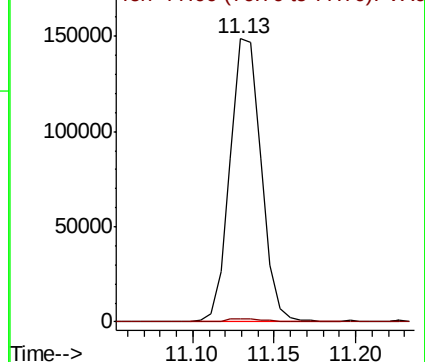
75 100

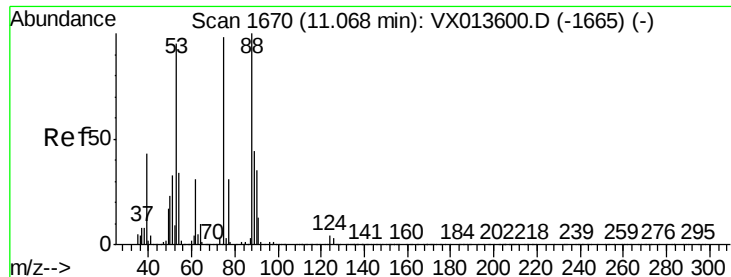
77 1.6 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 58.964 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013624.D

Acq: 27 Nov 2019 01:55

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

Tot Ion: 75 Resp: 196945

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

89 0.3 35.4 53.2#

