

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112619\
 Data File : VX013625.D
 Acq On : 27 Nov 2019 02:19
 Operator : JC/SP
 Sample : K5962-10 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 48BR-20191120

Quant Time: Nov 27 03:48:34 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	687381	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1087514	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	958049	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	421427	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	391189	49.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.06%	
35) Dibromofluoromethane	5.49	113	325197	48.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.74%	
50) Toluene-d8	8.71	98	1282646	48.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.94%	
62) 4-Bromofluorobenzene	11.14	95	421163	44.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.18%	

Target Compounds

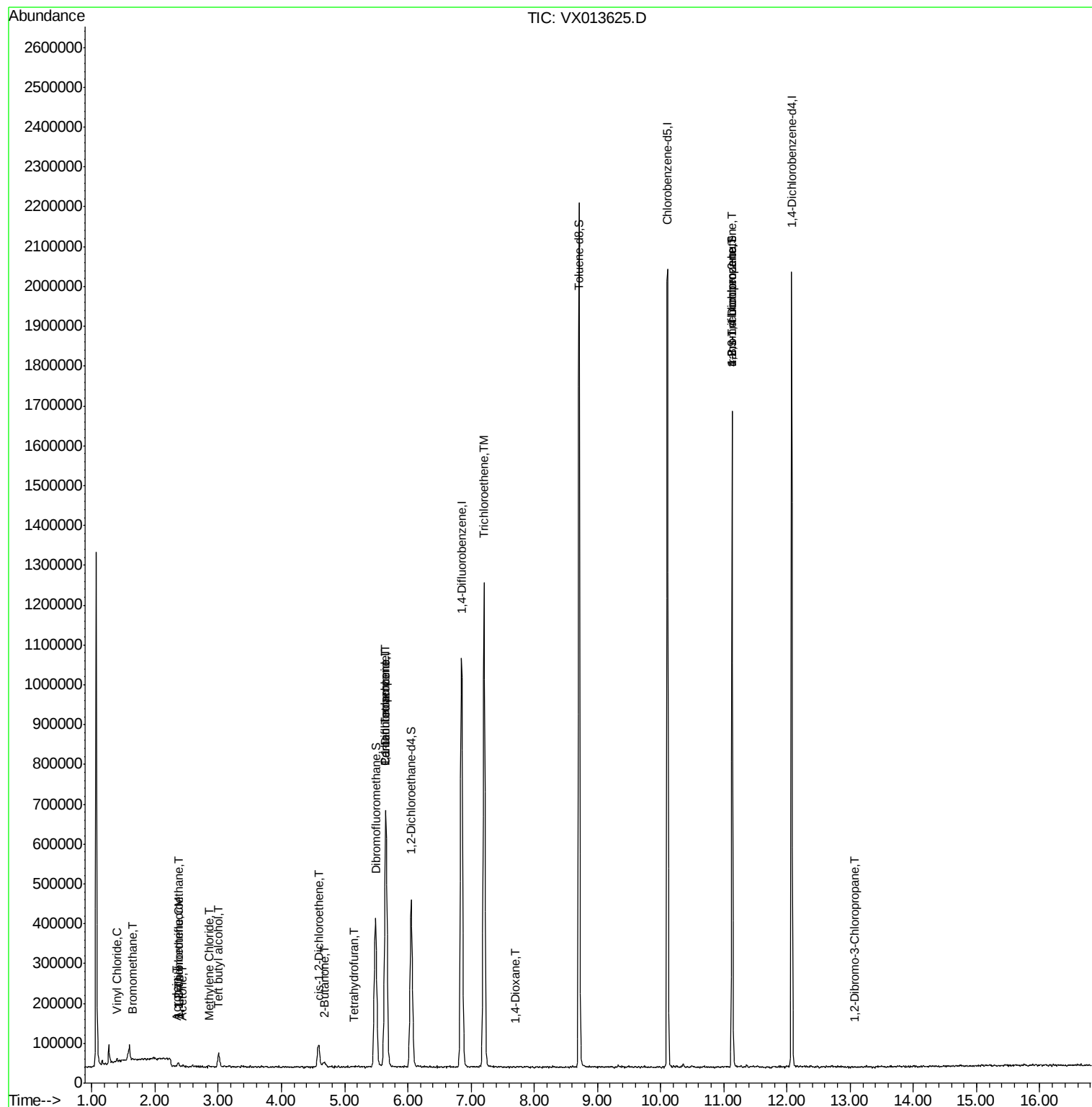
						Qvalue
4) Vinyl Chloride	1.40	62	5492	0.568	ug/l #	77
5) Bromomethane	1.64	94	1860	0.287	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	2.38	101	1767	0.270	ug/l	88
11) Tert butyl alcohol	3.01	59	22253	11.299	ug/l #	85
12) 1,1-Dichloroethene	2.36	96	3407	0.521	ug/l	87
13) Acrolein	2.34	56	961	6.716	ug/l #	15
16) Acetone	2.44	43	3384	0.859	ug/l #	64
20) Methylene Chloride	2.86	84	1564	0.207	ug/l #	38
25) 2-Butanone	4.67	43	2056	0.351	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	36037	4.403	ug/l	89
29) Tetrahydrofuran	5.14	42	729	0.202	ug/l #	32
36) 1,1-Dichloropropene	5.65	75	44888	4.547	ug/l #	51
38) Carbon Tetrachloride	5.65	117	58409	6.417	ug/l #	15
44) Trichloroethene	7.21	130	484985	58.774	ug/l	95
49) 1,4-Dioxane	7.71	88	254	1.281	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	205927	21.725	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	205927	59.437	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.07	75	603	0.270	ug/l	67

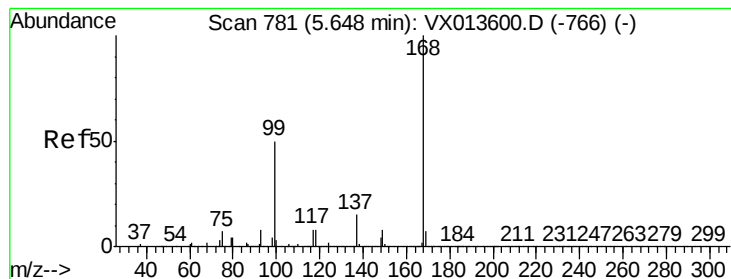
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
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# 781

Delta R.T. 0.00 min

Lab File: VX013625.D

Acq: 27 Nov 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

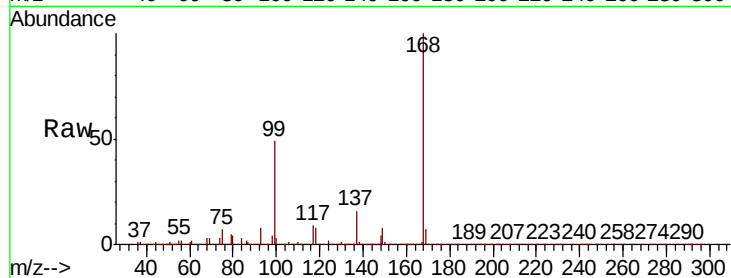
48BR-20191120

Tot Ion:168 Resp: 687381

Ion Ratio Lower Upper

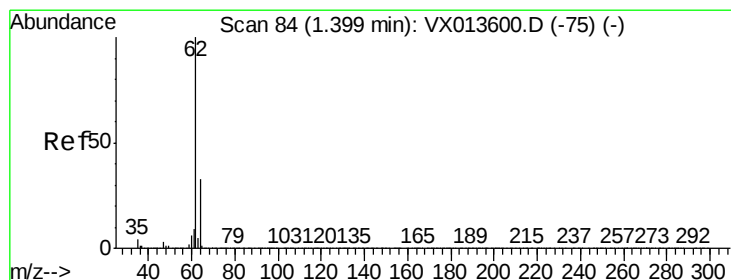
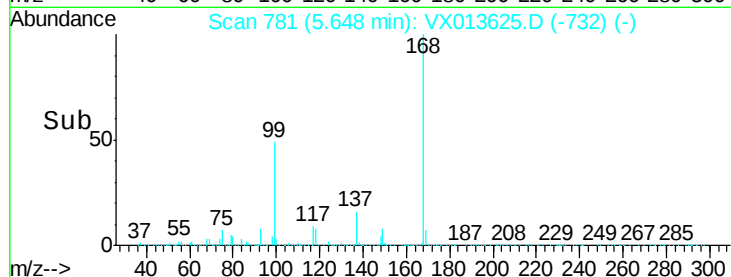
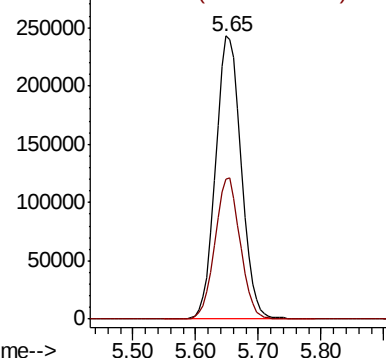
168 100

99 49.4 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 0.568 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013625.D

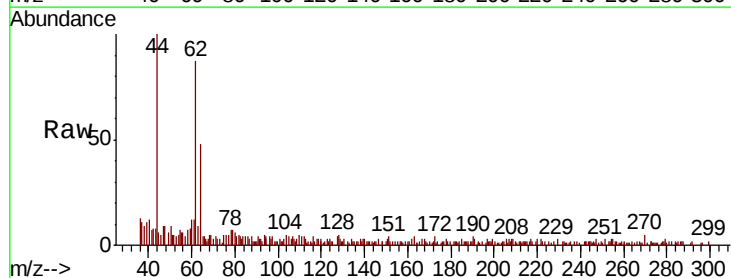
Acq: 27 Nov 2019 02:19

Tgt Ion: 62 Resp: 5492

Ion Ratio Lower Upper

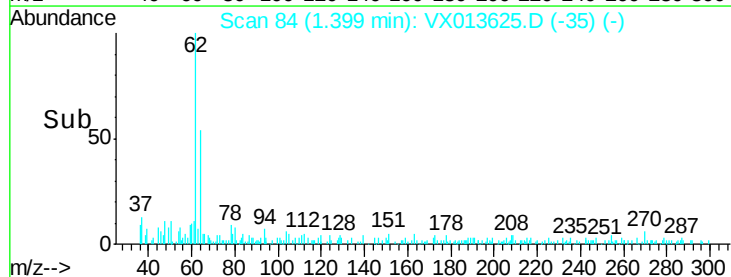
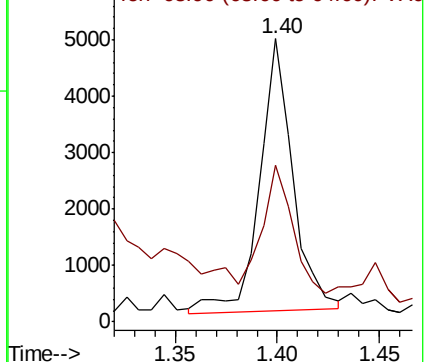
62 100

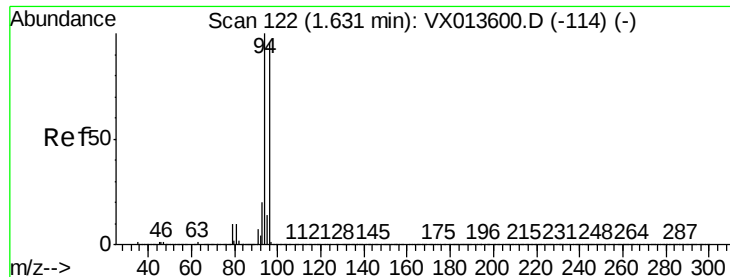
64 45.3 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.287 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013625.D

Acq: 27 Nov 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

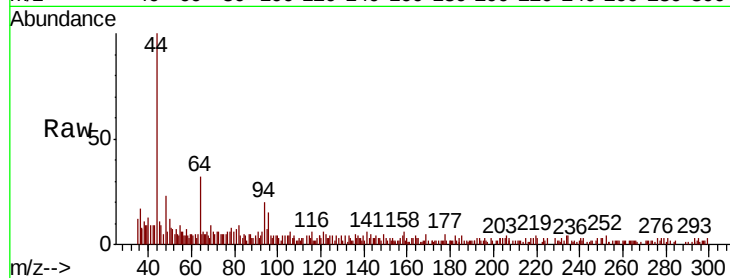
48BR-20191120

Tot Ion: 94 Resp: 1860

Ion Ratio Lower Upper

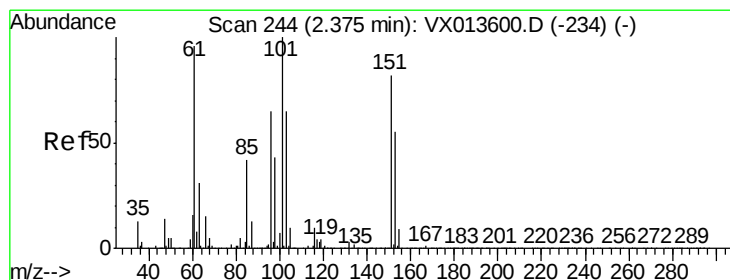
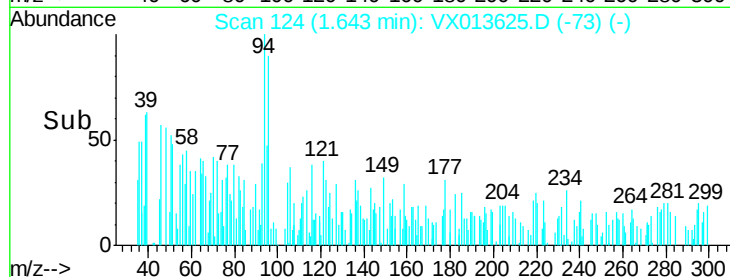
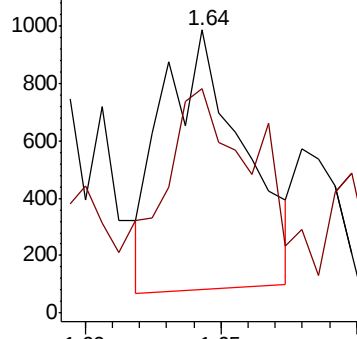
94 100

96 82.7 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: 0.270 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.01 min

Lab File: VX013625.D

Acq: 27 Nov 2019 02:19

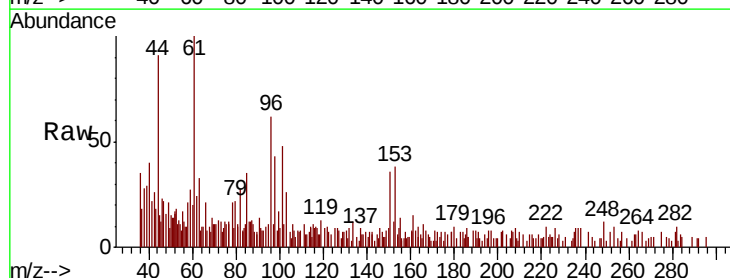
Tgt Ion:101 Resp: 1767

Ion Ratio Lower Upper

101 100

85 34.3 33.9 50.9

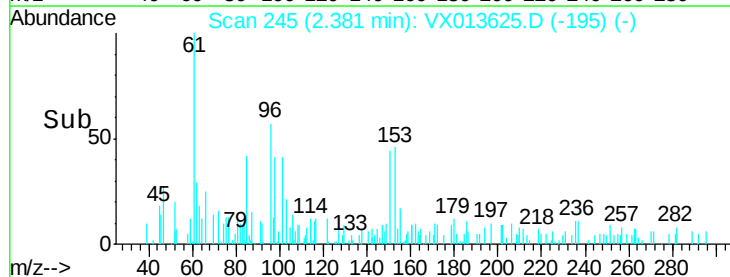
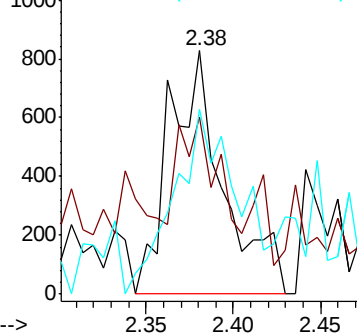
151 90.8 64.2 96.2

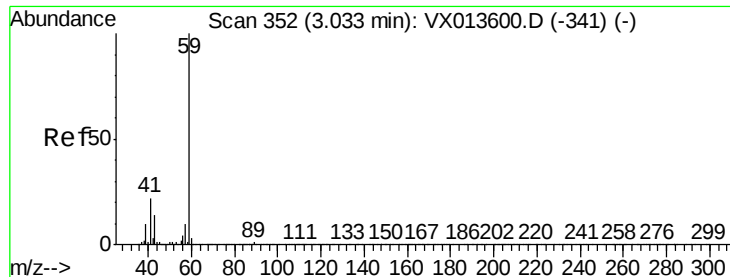


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



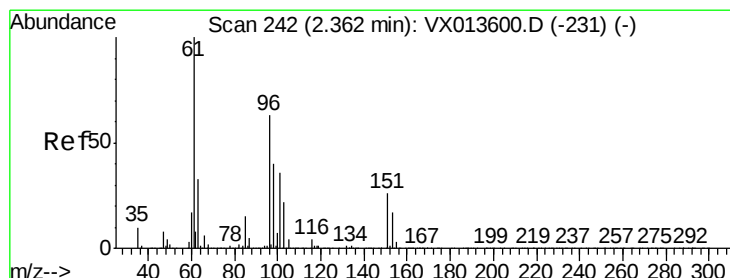
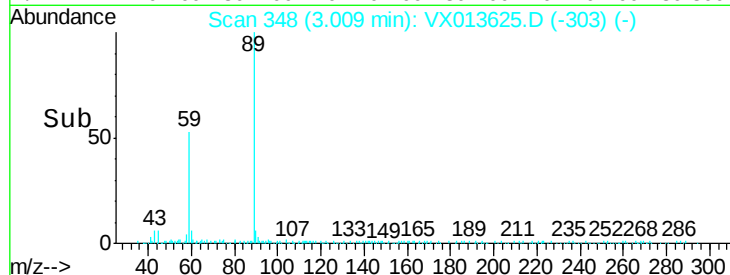
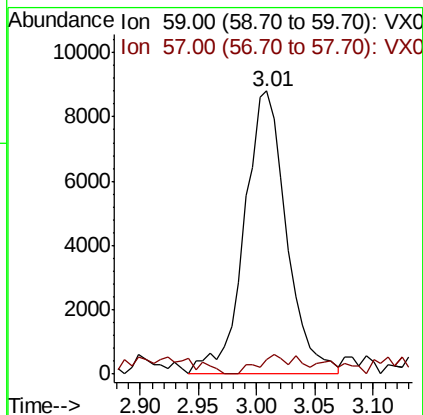
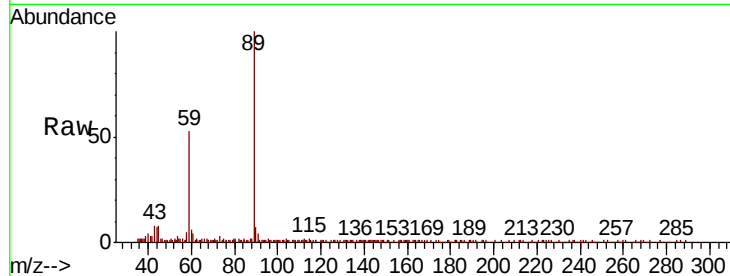


#11

Tert butyl alcohol
 Concen: 11.299 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.02 min
 Lab File: VX013625.D
 Acq: 27 Nov 2019 02:19

Instrument :
 MSVOA_X
 ClientSampleId :
 48BR-20191120

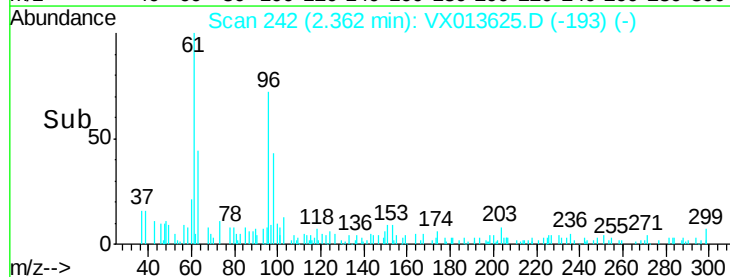
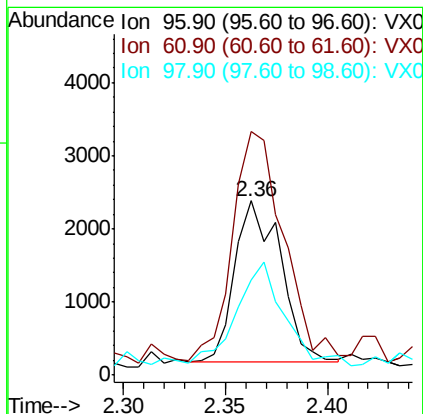
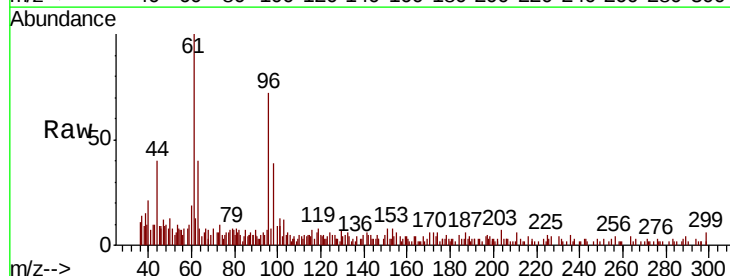
Tot Ion: 59 Resp: 22253
 Ion Ratio Lower Upper
 59 100
 57 4.3 7.8 11.6#

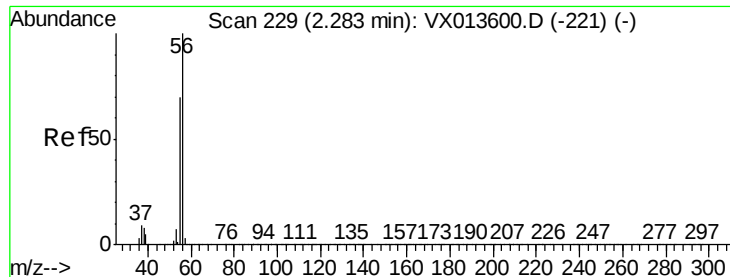


#12

1,1-Dichloroethene
 Concen: 0.521 ug/l
 RT: 2.36 min Scan# 242
 Delta R.T. 0.00 min
 Lab File: VX013625.D
 Acq: 27 Nov 2019 02:19

Tgt Ion: 96 Resp: 3407
 Ion Ratio Lower Upper
 96 100
 61 142.8 126.6 190.0
 98 52.2 50.6 76.0





#13

Acrolein

Concen: 6.716 ug/l

RT: 2.34 min Scan# 239

Delta R.T. 0.06 min

Lab File: VX013625.D

Acq: 27 Nov 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

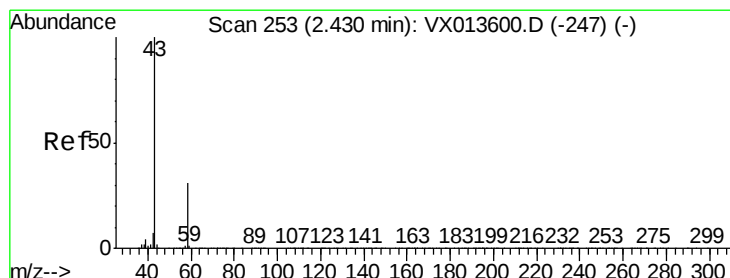
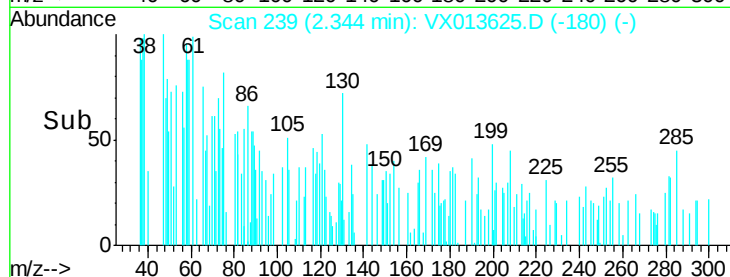
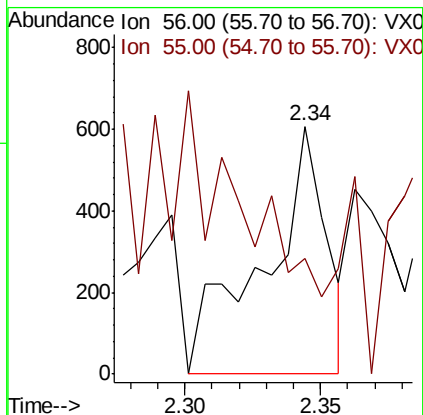
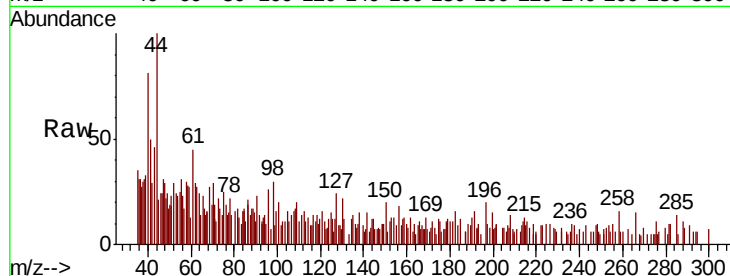
48BR-20191120

Tot Ion: 56 Resp: 961

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#



#16

Acetone

Concen: 0.859 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013625.D

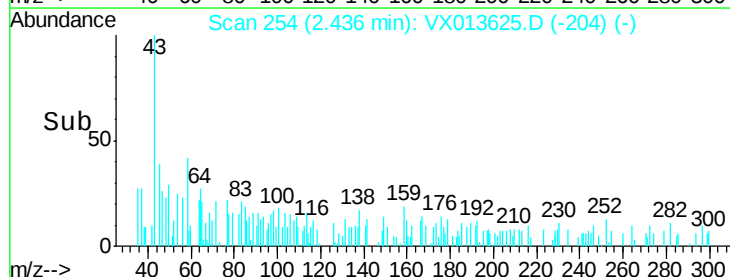
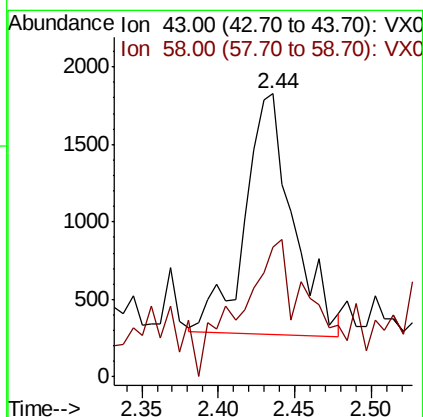
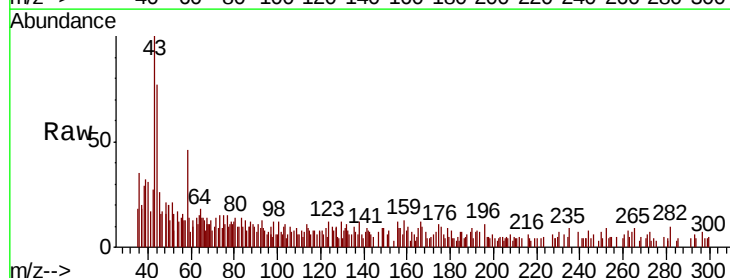
Acq: 27 Nov 2019 02:19

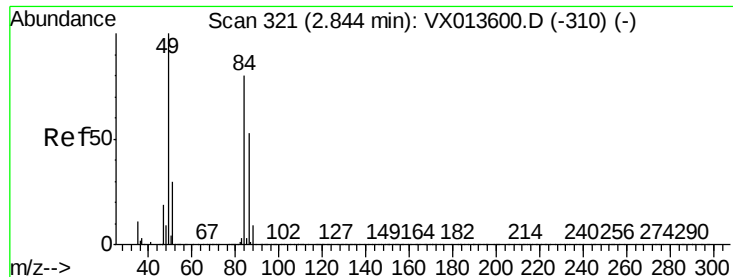
Tgt Ion: 43 Resp: 3384

Ion Ratio Lower Upper

43 100

58 50.2 24.6 36.8#

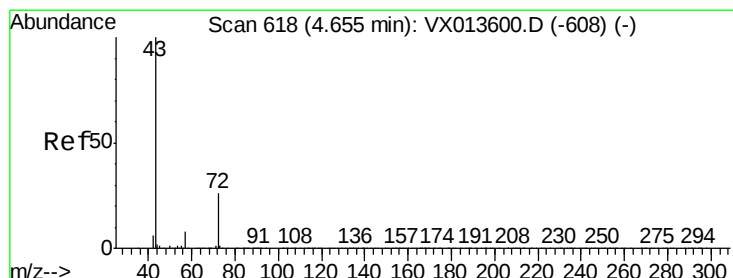
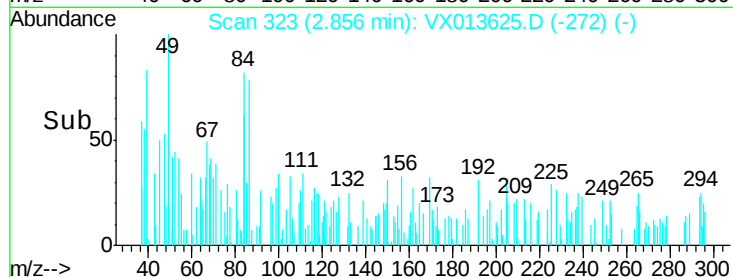
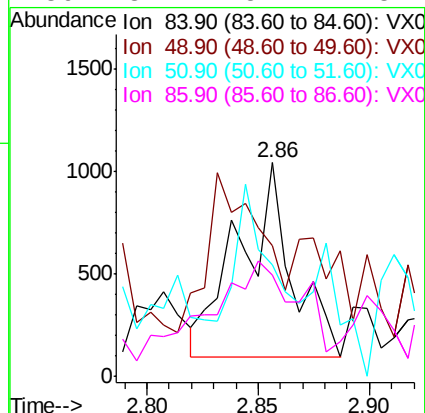
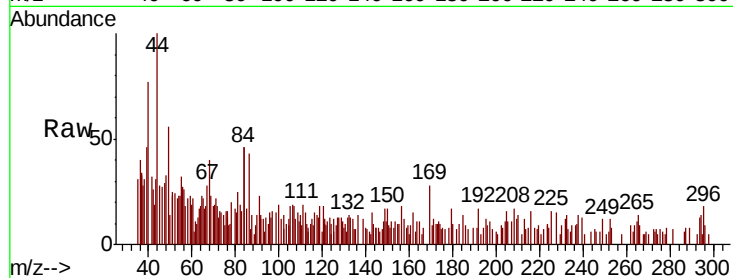




#20
Methvlene Chloride
Concen: 0.207 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX013625.D
Acq: 27 Nov 2019 02:19

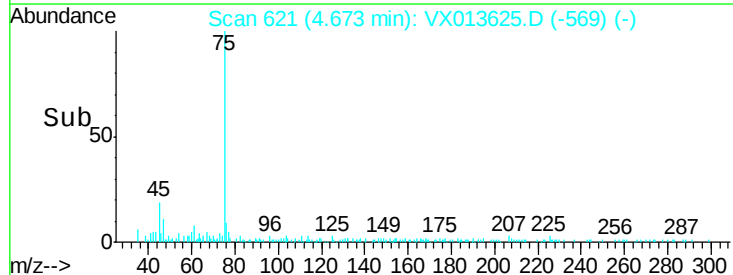
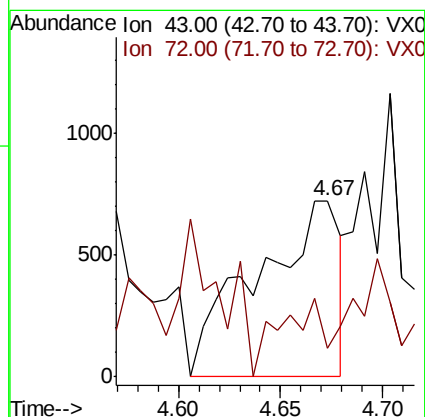
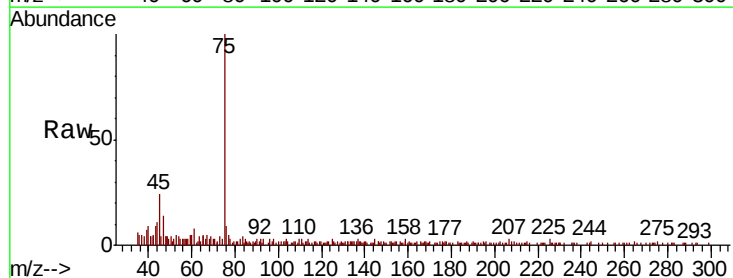
Instrument :
MSVOA_X
ClientSampleId :
48BR-20191120

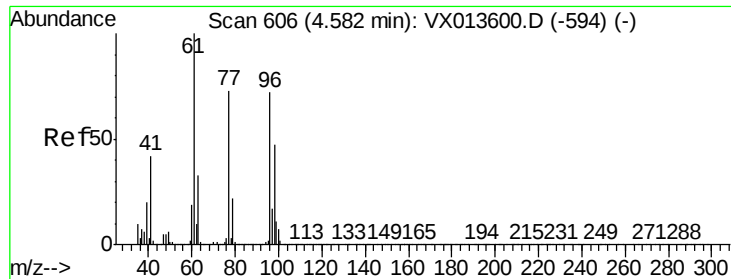
Tot Ion: 84 Resp: 1564
Ion Ratio Lower Upper
84 100
49 24.2 99.7 149.5#
51 27.4 29.9 44.9#
86 34.4 52.2 78.4#



#25
2-Butanone
Concen: 0.351 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.02 min
Lab File: VX013625.D
Acq: 27 Nov 2019 02:19

Tgt Ion: 43 Resp: 2056
Ion Ratio Lower Upper
43 100
72 0.0 20.6 31.0#



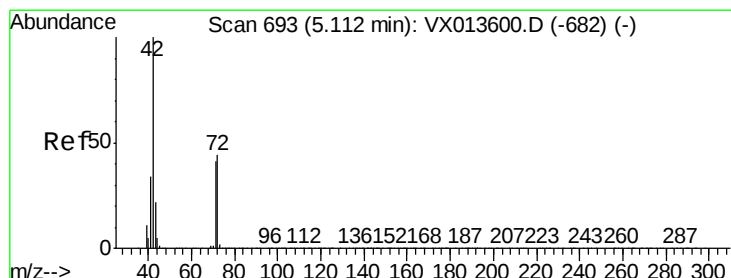
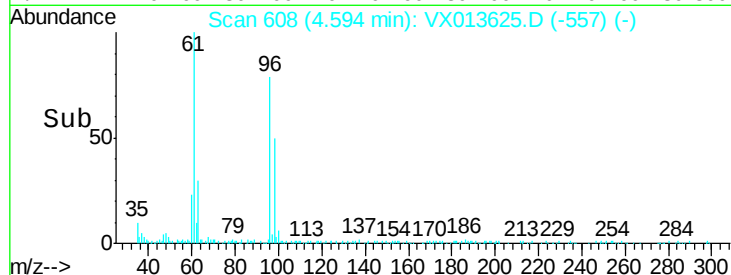
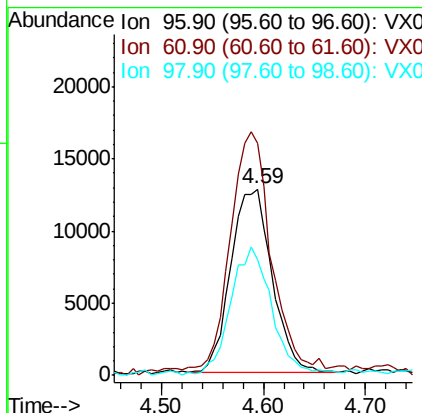
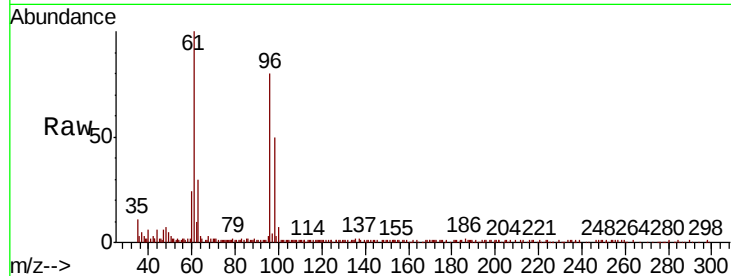


#27

cis-1,2-Dichloroethene
 Concen: 4.403 ug/l
 RT: 4.59 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VX013625.D
 Acq: 27 Nov 2019 02:19

Instrument :
 MSVOA_X
 ClientSampleId :
 48BR-20191120

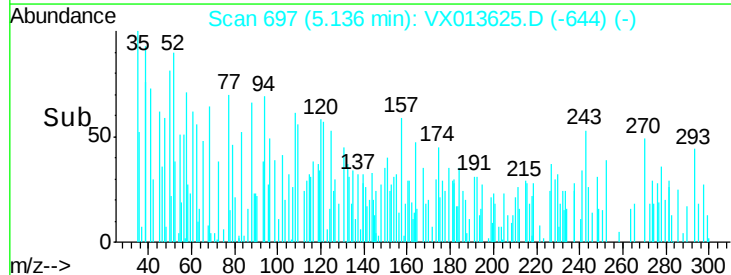
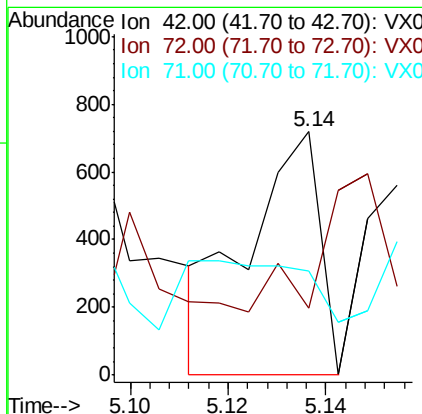
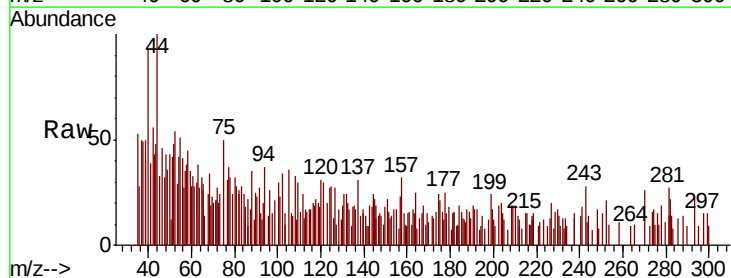
Tot Ion	Ratio	Lower	Upper
96	100		
61	128.1	0.0	286.4
98	70.1	0.0	127.4

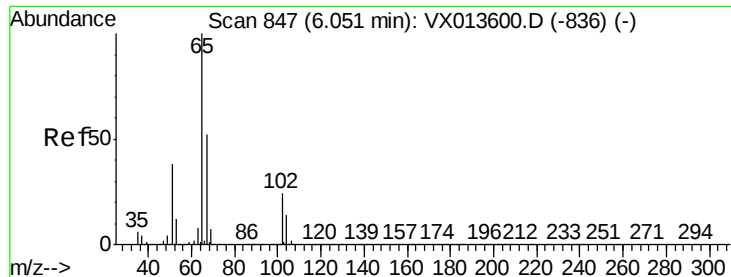


#29

Tetrahydrofuran
 Concen: 0.202 ug/l
 RT: 5.14 min Scan# 697
 Delta R.T. 0.02 min
 Lab File: VX013625.D
 Acq: 27 Nov 2019 02:19

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.3	54.5#
71	0.0	33.2	49.8#





#33

1,2-Dichloroethane-d4

Concen: 49.028 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013625.D

Acq: 27 Nov 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

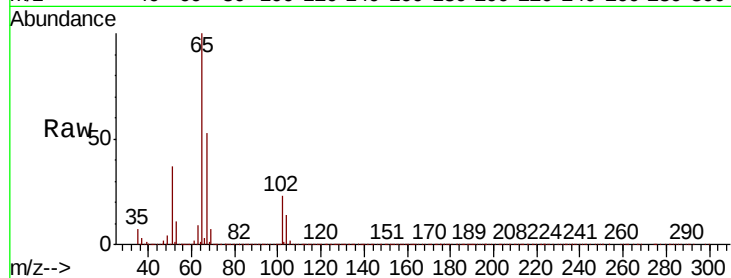
48BR-20191120

Tot Ion: 65 Resp: 391189

Ion Ratio Lower Upper

65 100

67 52.7 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

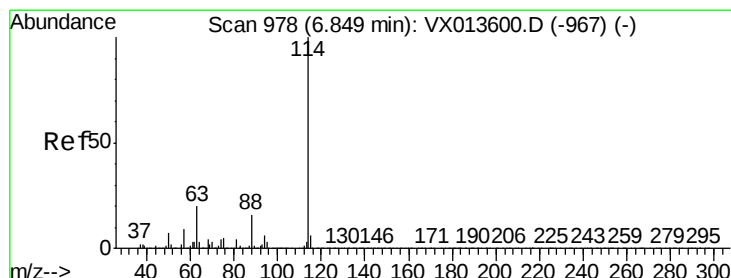
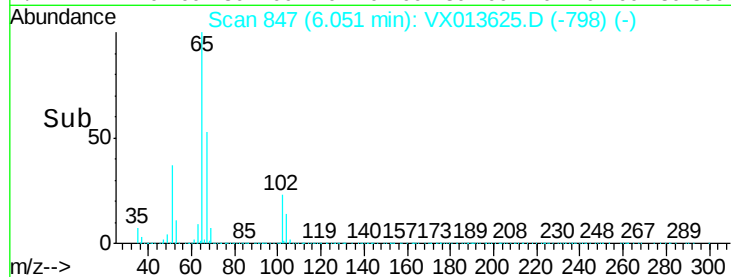
150000

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: VX013625.D

Acq: 27 Nov 2019 02:19

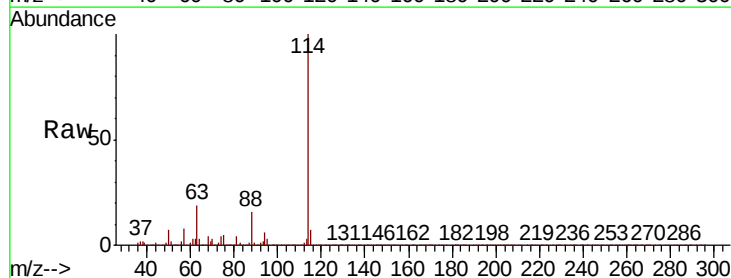
Tgt Ion: 114 Resp: 1087514

Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

88 15.9 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

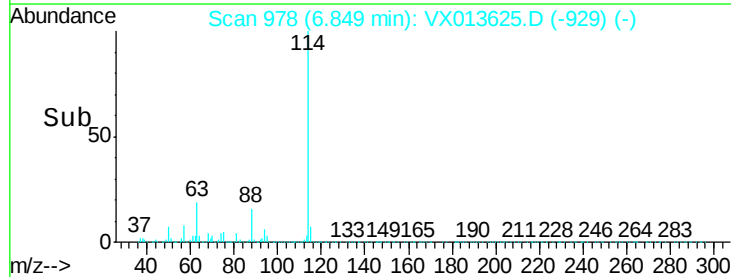
300000

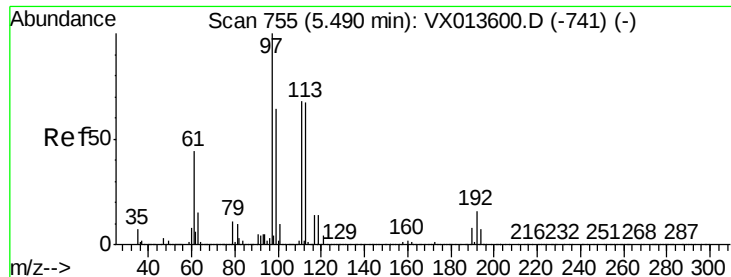
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 48.370 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013625.D

Acq: 27 Nov 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

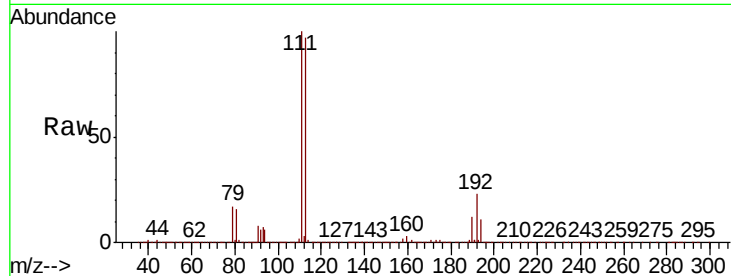
Tot Ion:113 Resp: 325197

Ion Ratio Lower Upper

113 100

111 101.6 83.6 125.4

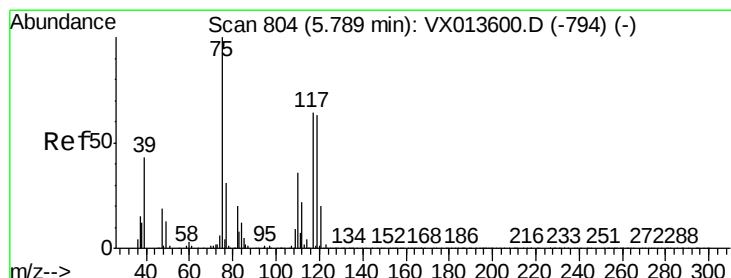
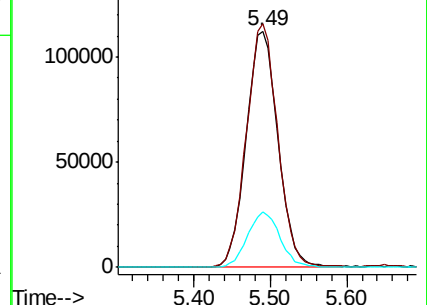
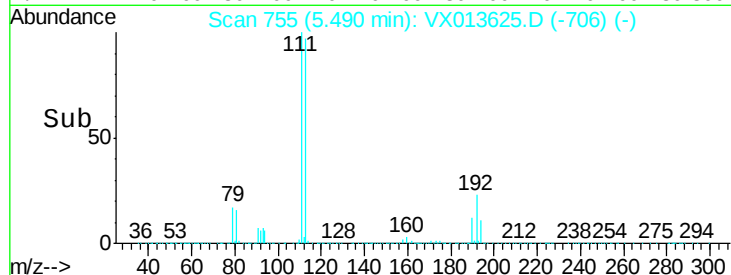
192 23.7 19.2 28.8



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: 4.547 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013625.D

Acq: 27 Nov 2019 02:19

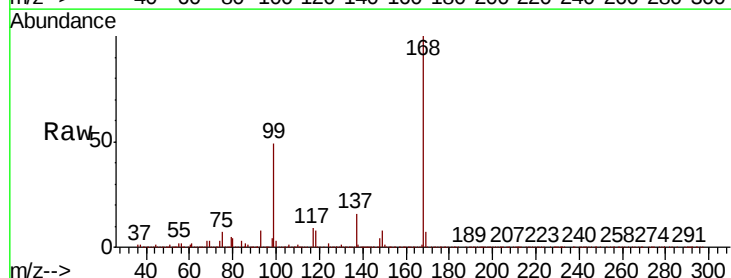
Tgt Ion: 75 Resp: 44888

Ion Ratio Lower Upper

75 100

110 10.8 18.1 54.1#

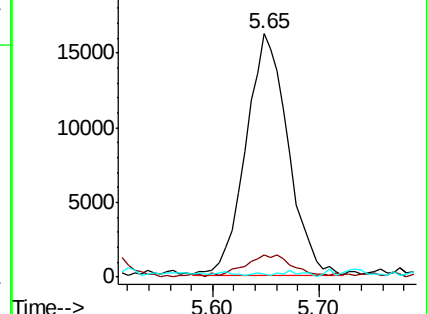
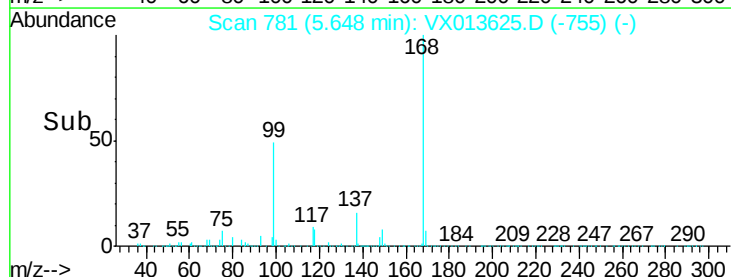
77 0.2 24.5 36.7#

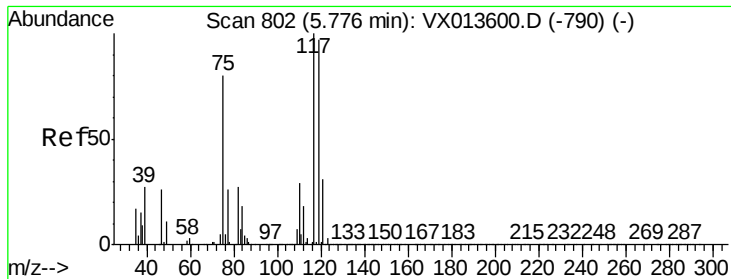


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.417 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013625.D

Acq: 27 Nov 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

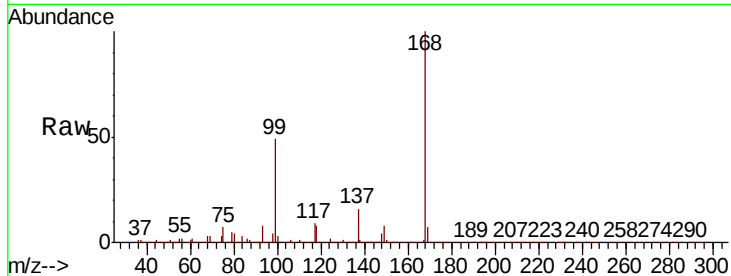
Tot Ion:117 Resp: 58409

Ion Ratio Lower Upper

117 100

119 4.2 77.5 116.3#

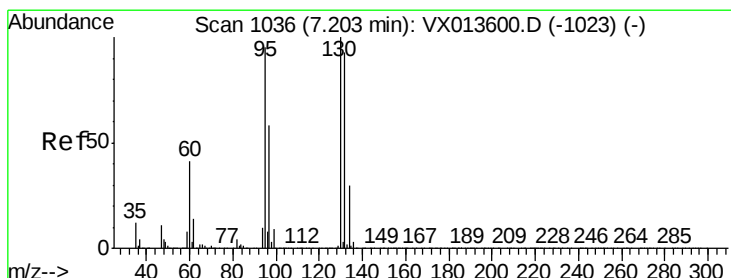
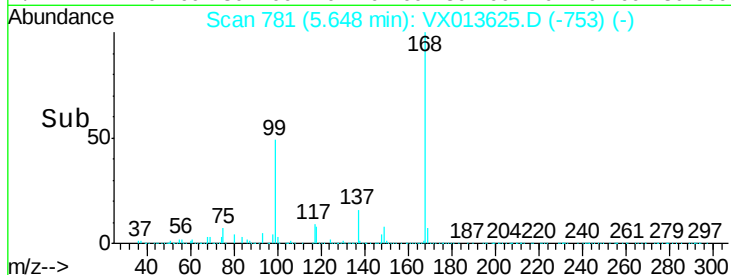
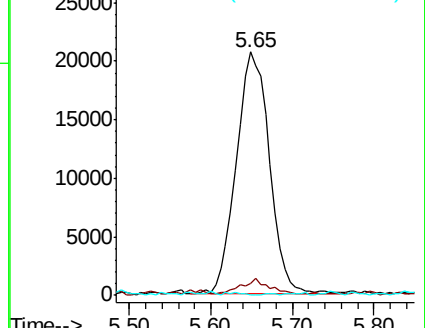
121 0.0 25.0 37.6#



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



#44

Trichloroethene

Concen: 58.774 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013625.D

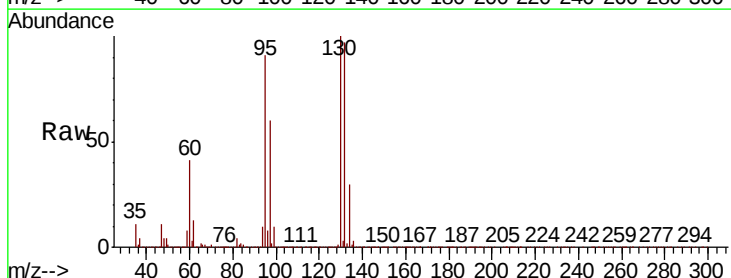
Acq: 27 Nov 2019 02:19

Tgt Ion:130 Resp: 484985

Ion Ratio Lower Upper

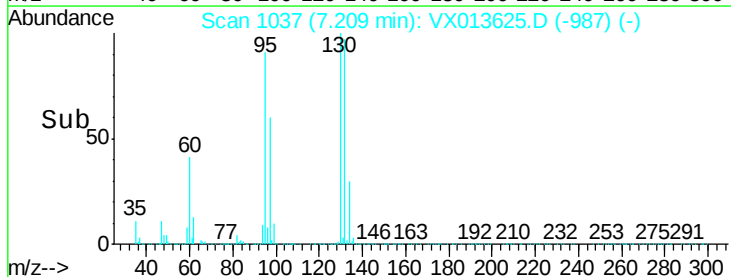
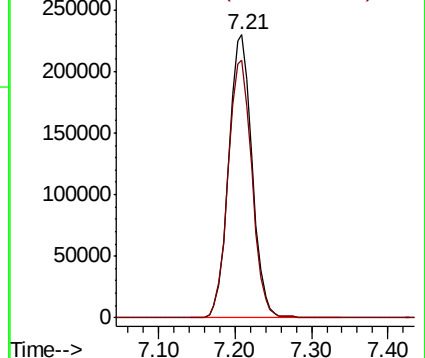
130 100

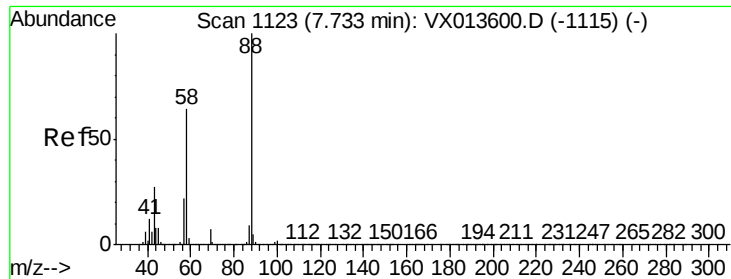
95 90.8 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 1.281 ug/l

RT: 7.71 min Scan# 1119

Delta R.T. -0.02 min

Lab File: VX013625.D

Acq: 27 Nov 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

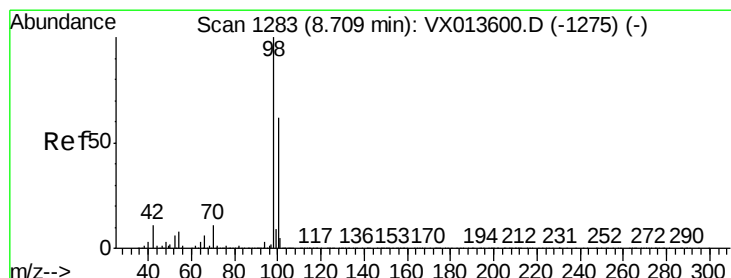
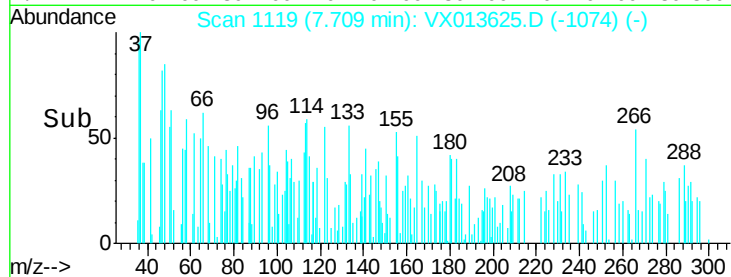
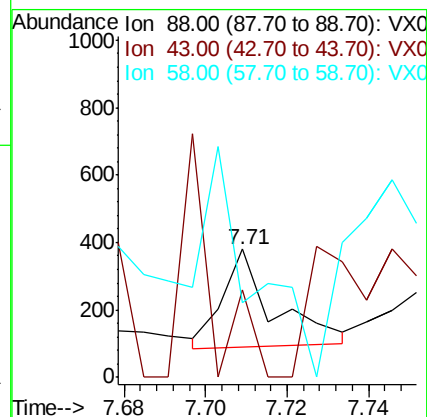
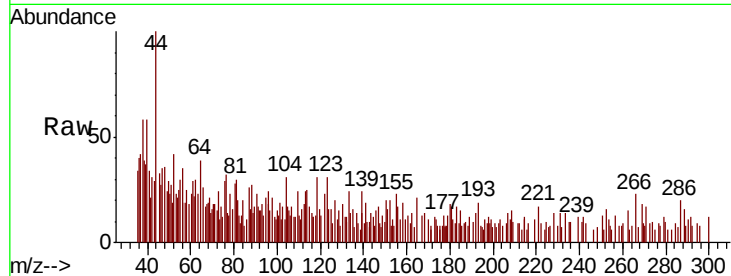
Tot Ion: 88 Resp: 254

Ion Ratio Lower Upper

88 100

43 141.7 25.8 38.6#

58 208.7 54.6 82.0#



#50

Toluene-d8

Concen: 48.967 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013625.D

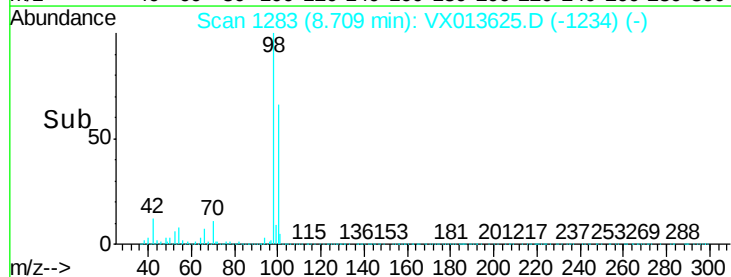
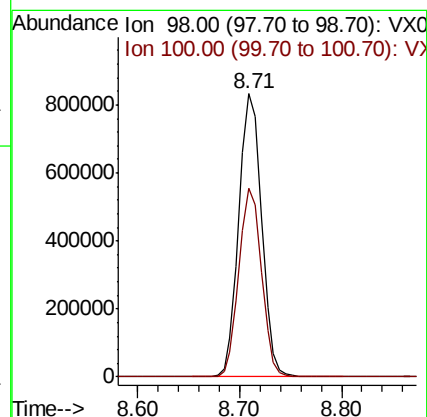
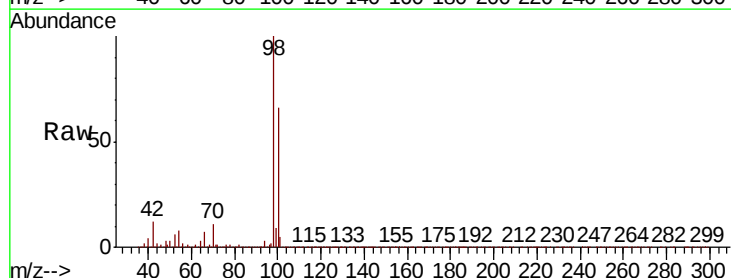
Acq: 27 Nov 2019 02:19

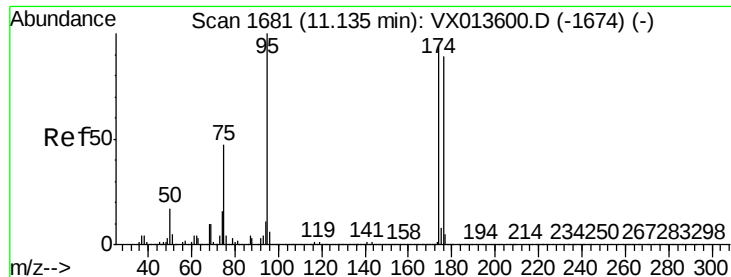
Tgt Ion: 98 Resp: 1282646

Ion Ratio Lower Upper

98 100

100 66.1 53.1 79.7





#62

4-Bromofluorobenzene

Concen: 44.588 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013625.D

Acq: 27 Nov 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

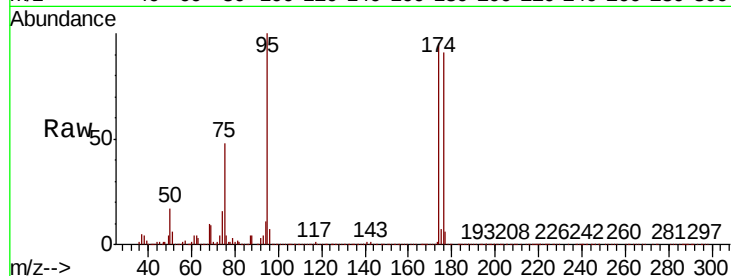
Tot Ion: 95 Resp: 421163

Ion Ratio Lower Upper

95 100

174 90.7 0.0 180.0

176 87.8 0.0 173.6

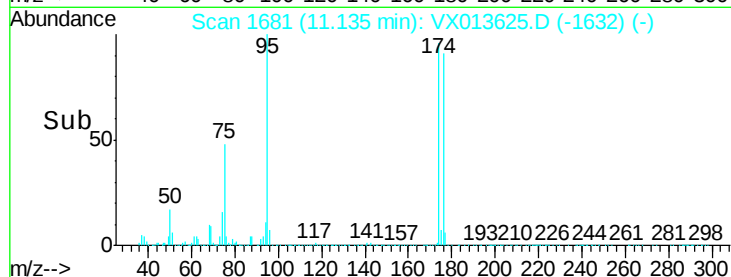


Abundance Ion 94.90 (94.60 to 95.60): VX013600.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013600.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013600.D (-1674) (-)

Time-->

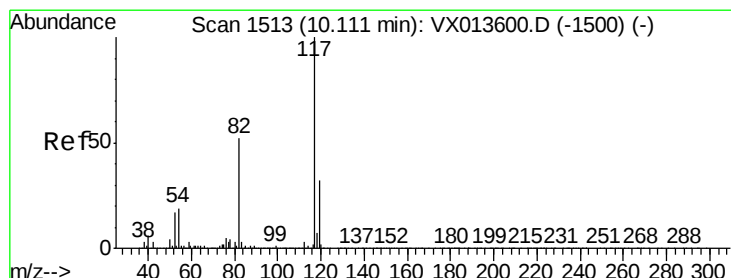


Abundance Ion 94.90 (94.60 to 95.60): VX013625.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX013625.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX013625.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: VX013625.D

Acq: 27 Nov 2019 02:19

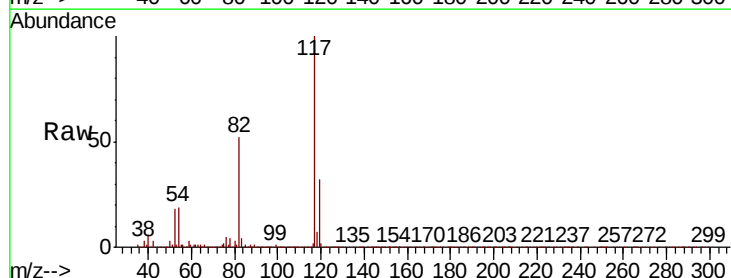
Tgt Ion: 117 Resp: 958049

Ion Ratio Lower Upper

117 100

82 51.8 41.8 62.8

119 32.3 25.8 38.8

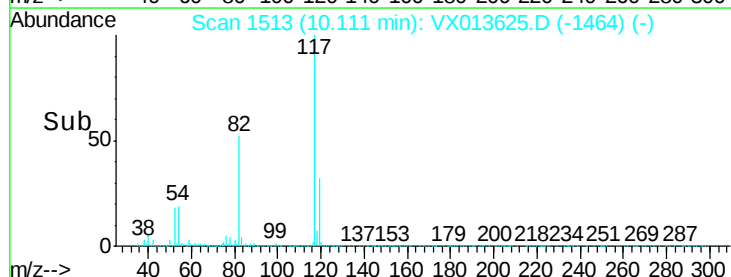


Abundance Ion 116.90 (116.60 to 117.60): VX013600.D (-1500) (-)

Ion 82.00 (81.70 to 82.70): VX013600.D (-1500) (-)

Ion 118.90 (118.60 to 119.60): VX013600.D (-1500) (-)

Time-->

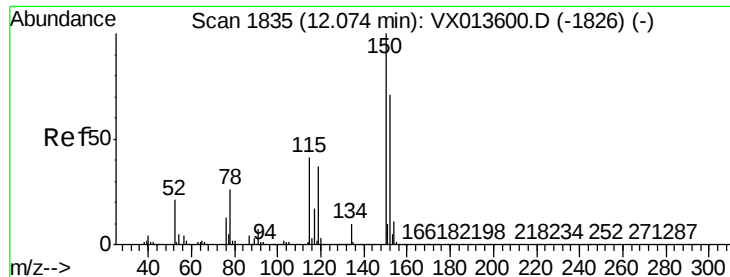


Abundance Ion 116.90 (116.60 to 117.60): VX013625.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013625.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013625.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: VX013625.D

Acq: 27 Nov 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

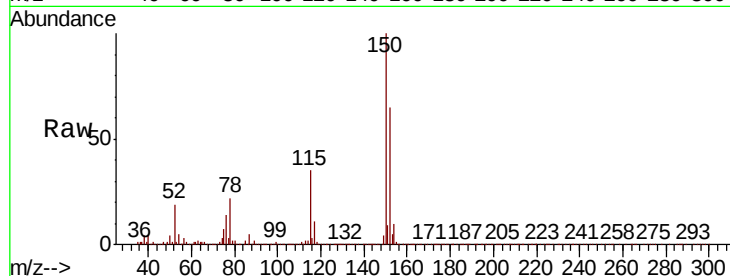
Tot Ion:152 Resp: 421427

Ion Ratio Lower Upper

152 100

115 55.1 38.4 115.1

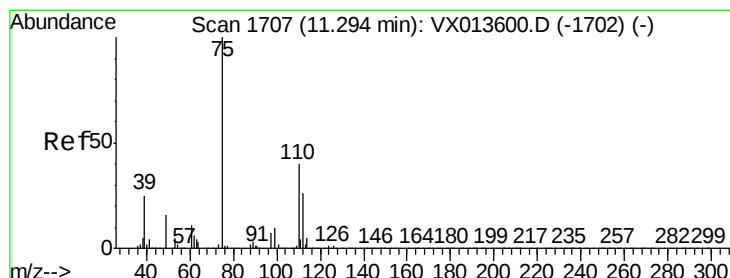
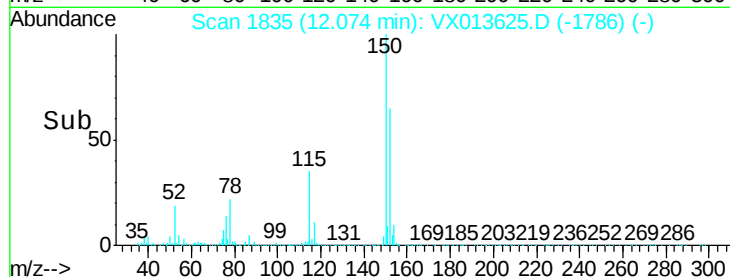
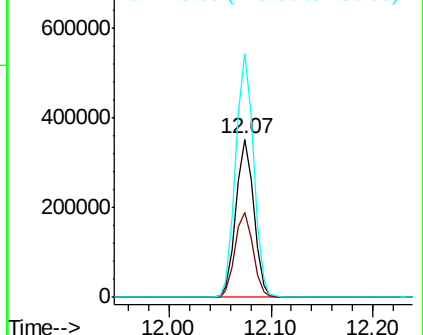
150 155.8 0.0 346.8



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: 21.725 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013625.D

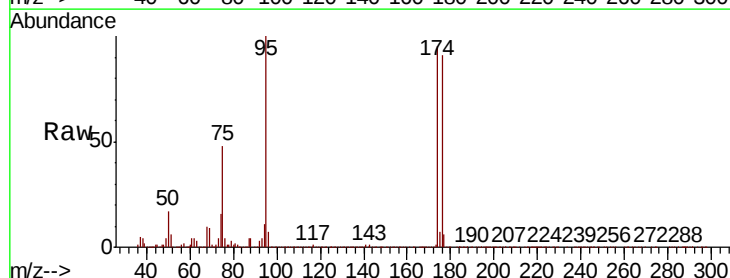
Acq: 27 Nov 2019 02:19

Tgt Ion: 75 Resp: 205927

Ion Ratio Lower Upper

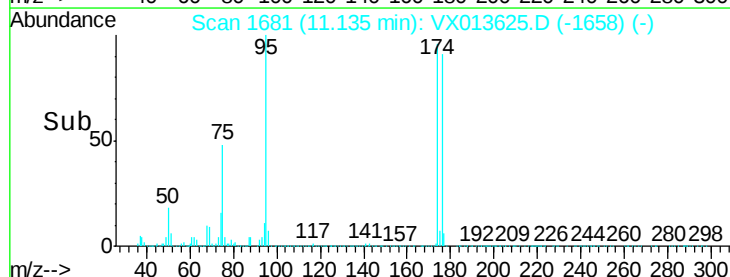
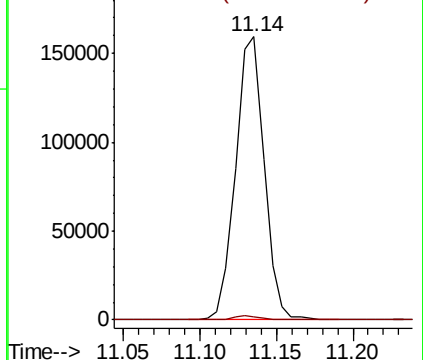
75 100

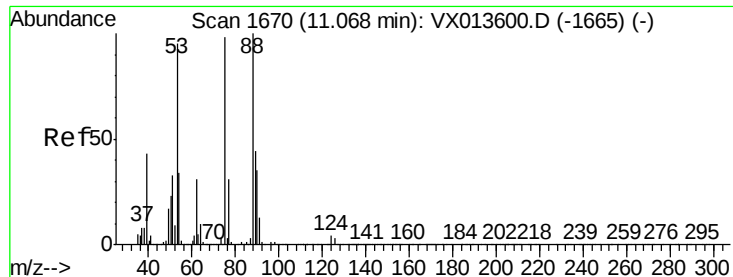
77 1.3 19.1 57.5#



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: 59.437 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013625.D

Acq: 27 Nov 2019 02:19

Instrument :

MSVOA_X

ClientSampleId :

48BR-20191120

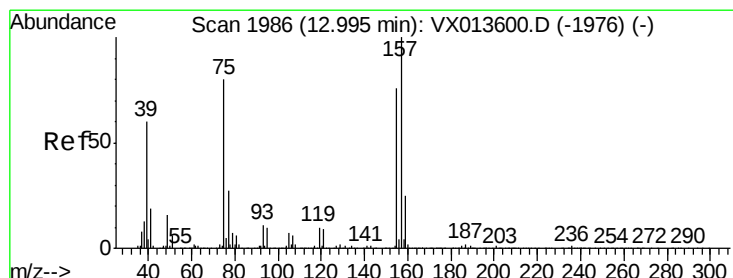
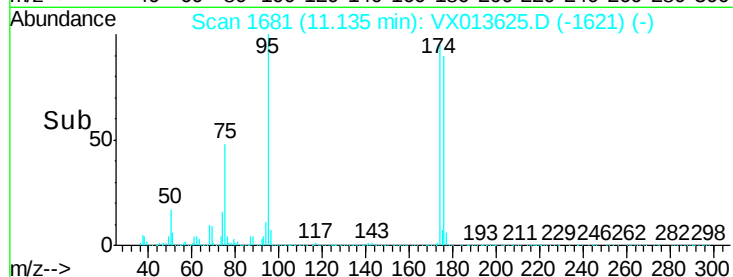
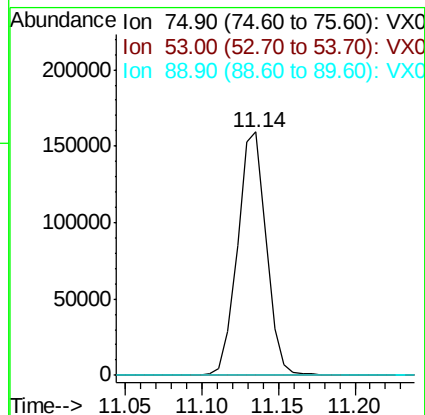
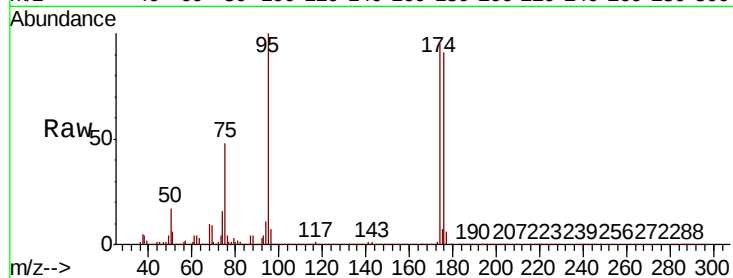
Tot Ion: 75 Resp: 205927

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.2#

89 0.2 35.4 53.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.270 ug/l

RT: 13.07 min Scan# 1999

Delta R.T. 0.08 min

Lab File: VX013625.D

Acq: 27 Nov 2019 02:19

Tgt Ion: 75 Resp: 603

Ion Ratio Lower Upper

75 100

155 60.5 47.6 142.8

157 88.4 62.1 186.2

