

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX013883.D
 Acq On : 10 Dec 2019 04:37
 Operator : JC/SP
 Sample : K6186-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-GAC2-IDW01

Quant Time: Dec 12 08:20:40 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	592913	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	914573	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	810343	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	361520	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	336465	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	
35) Dibromofluoromethane	5.49	113	272831	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
50) Toluene-d8	8.71	98	1083195	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
62) 4-Bromofluorobenzene	11.14	95	361854	45.55	ug/l	0.00
Spiked Amount			Recovery	=	91.10%	

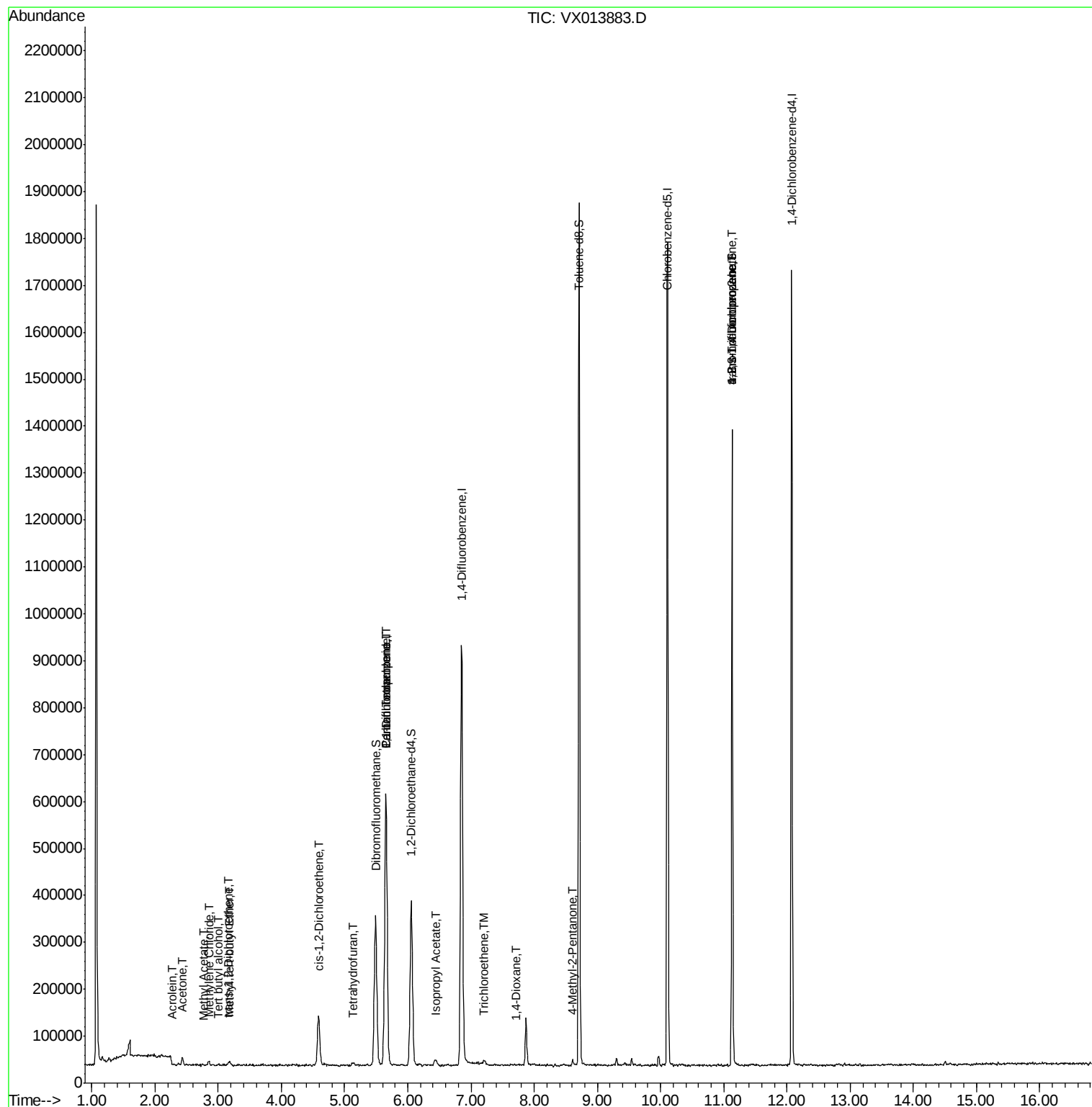
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	2389	1.406	ug/l #	94
13) Acrolein	2.28	56	163	6.144	ug/l #	1
16) Acetone	2.43	43	18627	5.482	ug/l	94
18) Methyl Acetate	2.77	43	4230	0.447	ug/l #	79
19) Methyl tert-butyl Ether	3.18	73	9067	0.485	ug/l	100
20) Methylene Chloride	2.86	84	4385	0.672	ug/l #	70
21) trans-1,2-Dichloroethene	3.16	96	3180	0.517	ug/l #	80
27) cis-1,2-Dichloroethene	4.59	96	67137	9.511	ug/l	90
29) Tetrahydrofuran	5.14	42	5096	1.637	ug/l #	76
36) 1,1-Dichloropropene	5.65	75	40812	4.916	ug/l #	51
38) Carbon Tetrachloride	5.65	117	52110	6.807	ug/l #	15
43) Isopropyl Acetate	6.45	43	15996	1.043	ug/l #	92
44) Trichloroethene	7.21	130	4336	0.625	ug/l	93
49) 1,4-Dioxane	7.72	88	335	2.009	ug/l #	24
51) 4-Methyl-2-Pentanone	8.61	43	4877	0.506	ug/l #	45
76) 1,2,3-Trichloropropane	11.13	75	176912	21.757	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	176912	59.524	ug/l #	11

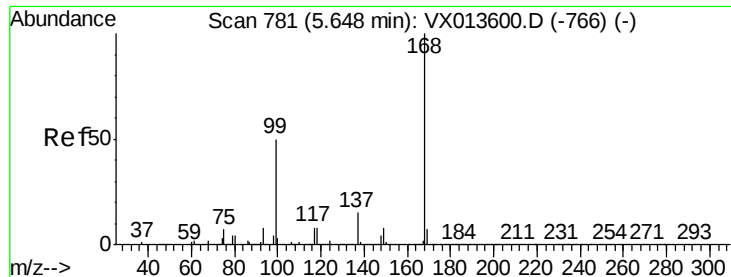
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013883.D

Acq: 10 Dec 2019 04:37

Instrument :

MSVOA_X

ClientSampleId :

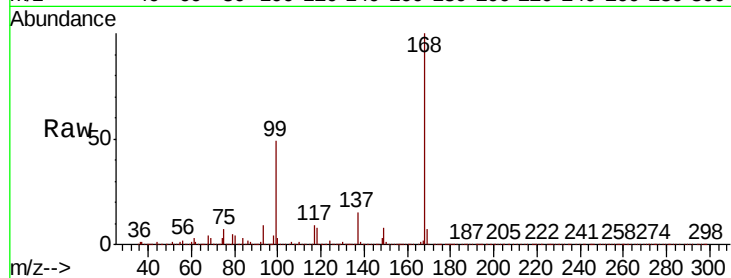
S32-GAC2-IDW01

Tot Ion:168 Resp: 592913

Ion Ratio Lower Upper

168 100

99 49.3 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

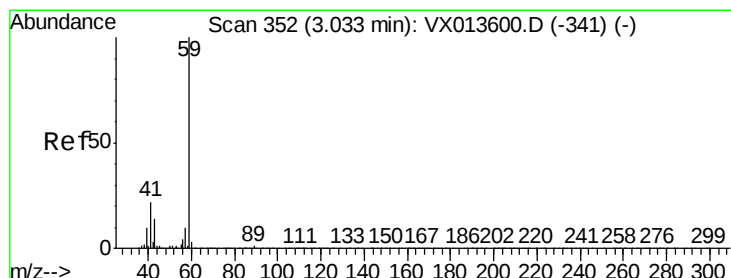
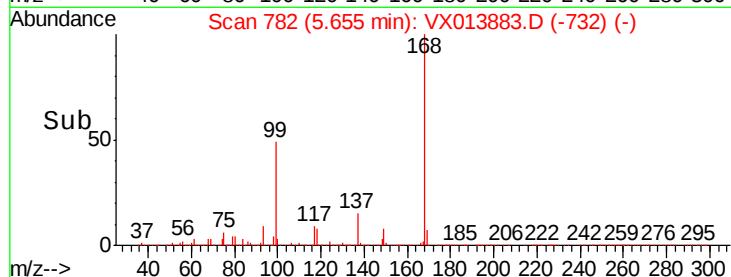
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.406 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX013883.D

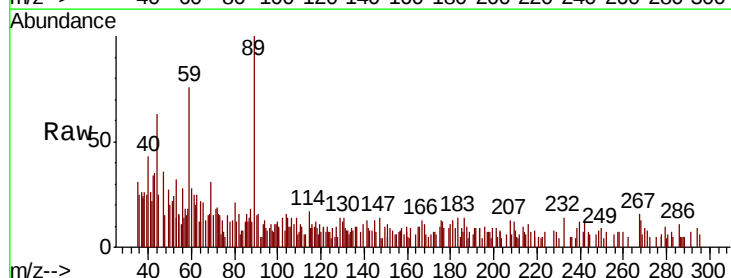
Acq: 10 Dec 2019 04:37

Tgt Ion: 59 Resp: 2389

Ion Ratio Lower Upper

59 100

57 11.8 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

1000

800

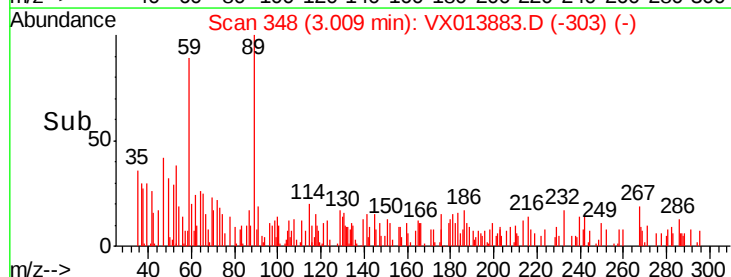
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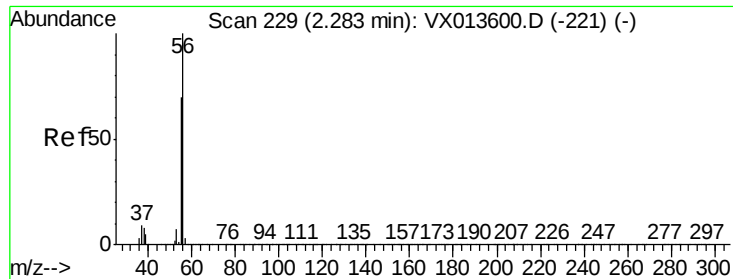
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200

0

Time-->

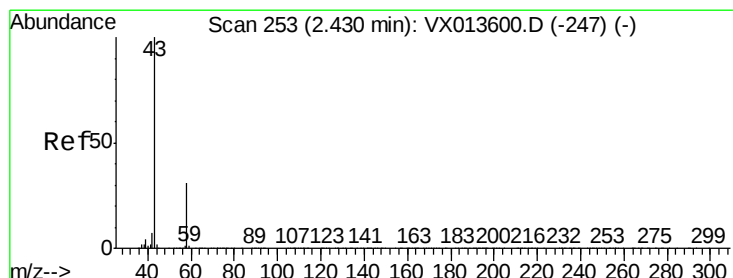
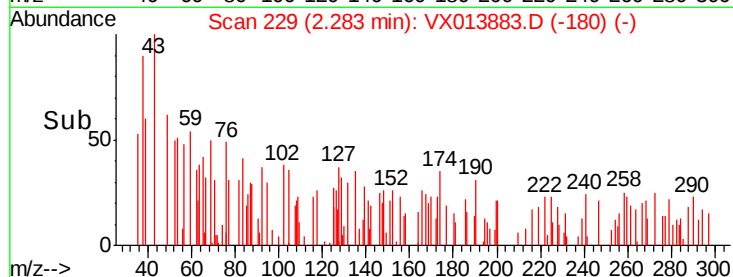
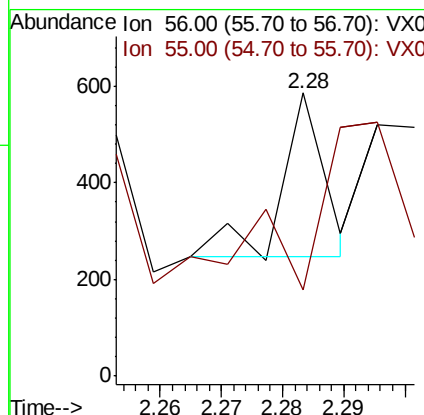
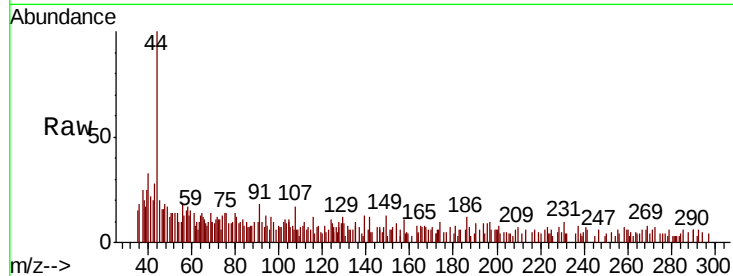




#13
Acrolein
Concen: 6.144 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX013883.D
Acq: 10 Dec 2019 04:37

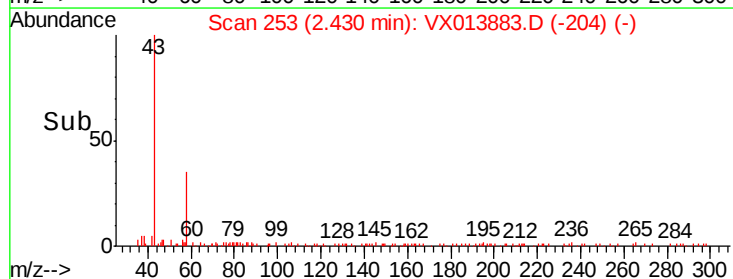
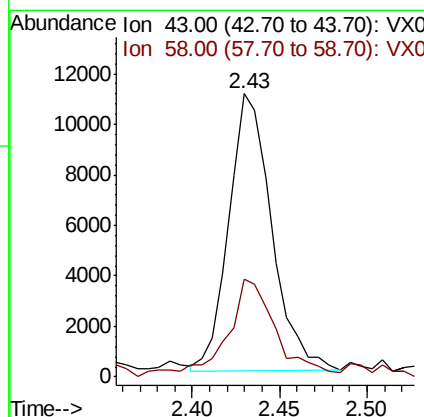
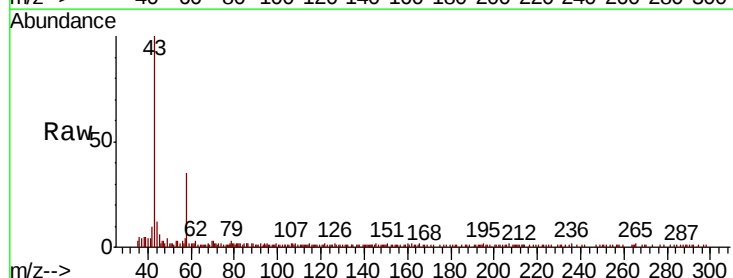
Instrument :
MSVOA_X
ClientSampleId :
S32-GAC2-IDW01

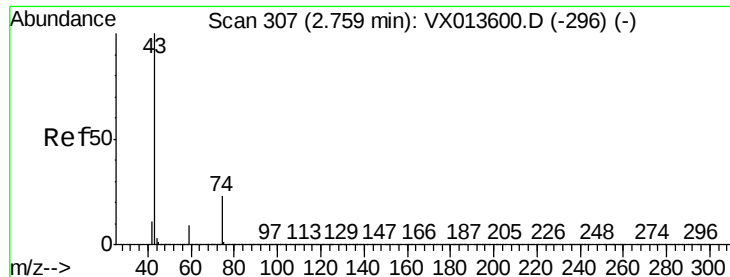
Tot Ion: 56 Resp: 163
Ion Ratio Lower Upper
56 100
55 255.8 56.2 84.4#



#16
Acetone
Concen: 5.482 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013883.D
Acq: 10 Dec 2019 04:37

Tgt Ion: 43 Resp: 18627
Ion Ratio Lower Upper
43 100
58 33.9 24.6 36.8

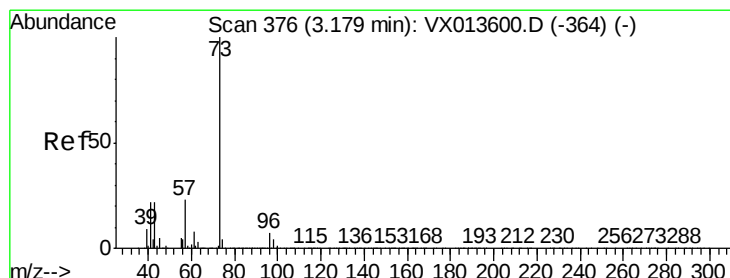
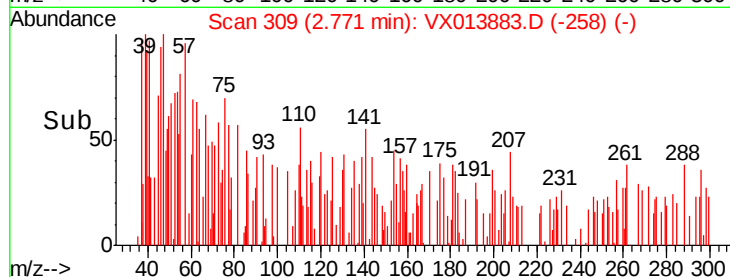
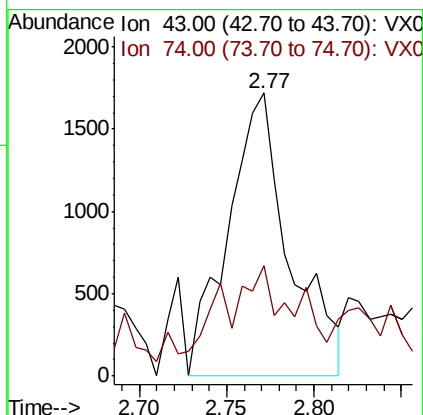
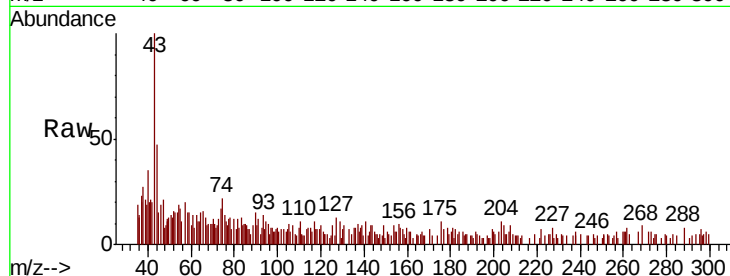




#18
Methyl Acetate
Concen: 0.447 ug/l
RT: 2.77 min Scan# 309
Delta R.T. 0.01 min
Lab File: VX013883.D
Acq: 10 Dec 2019 04:37

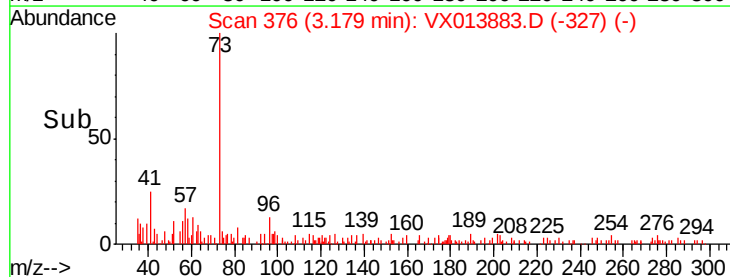
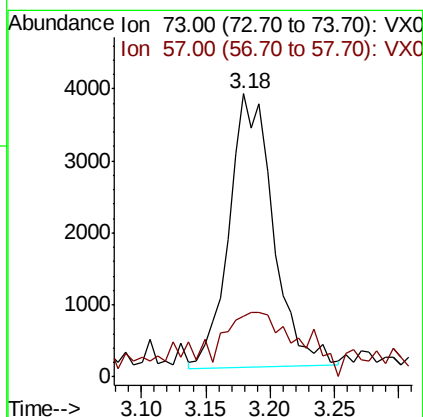
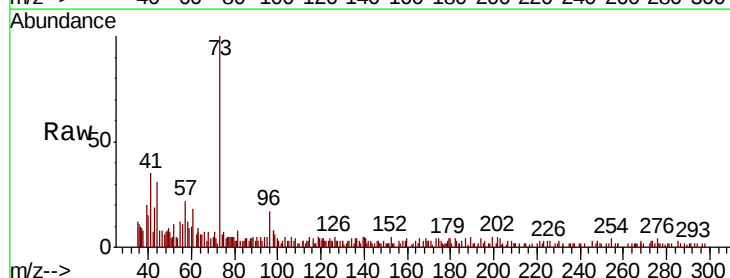
Instrument :
MSVOA_X
ClientSampleId :
S32-GAC2-IDW01

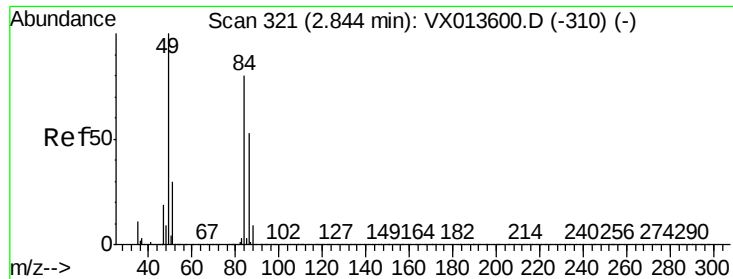
Tot Ion: 43 Resp: 4230
Ion Ratio Lower Upper
43 100
74 14.1 19.5 29.3#



#19
Methyl tert-butyl Ether
Concen: 0.485 ug/l
RT: 3.18 min Scan# 376
Delta R.T. 0.00 min
Lab File: VX013883.D
Acq: 10 Dec 2019 04:37

Tgt Ion: 73 Resp: 9067
Ion Ratio Lower Upper
73 100
57 22.7 18.3 27.5

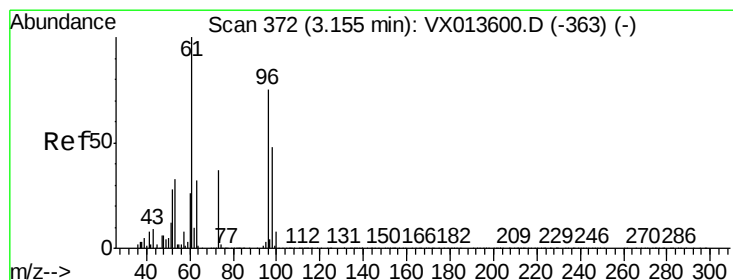
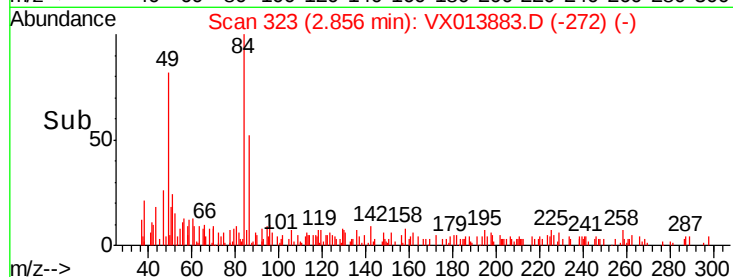
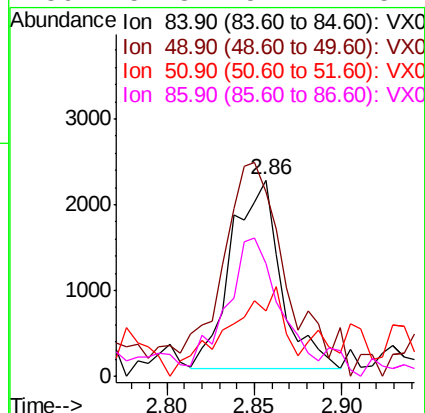
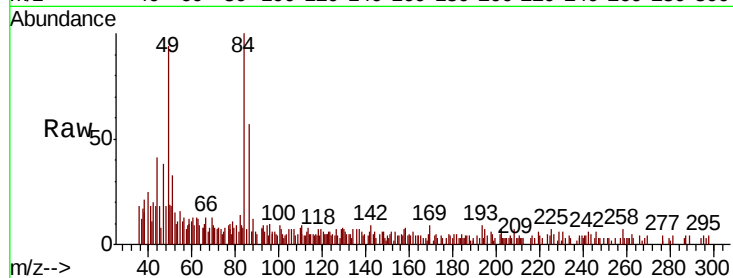




#20
Methvlene Chloride
Concen: 0.672 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX013883.D
Acq: 10 Dec 2019 04:37

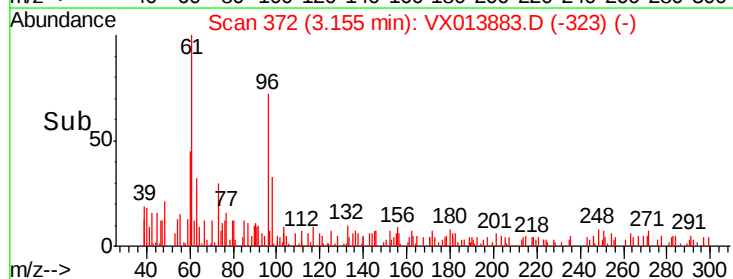
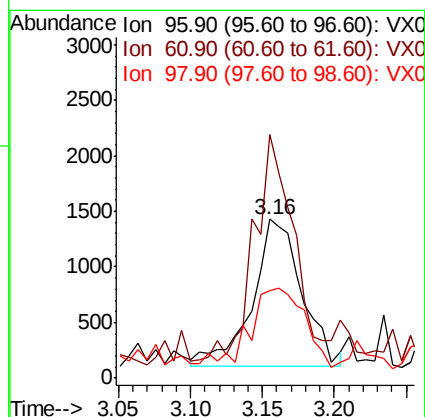
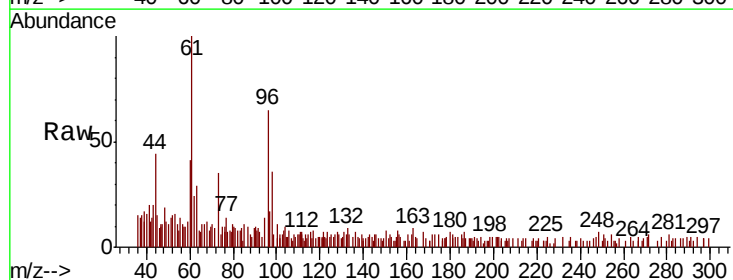
Instrument :
MSVOA_X
ClientSampleId :
S32-GAC2-IDW01

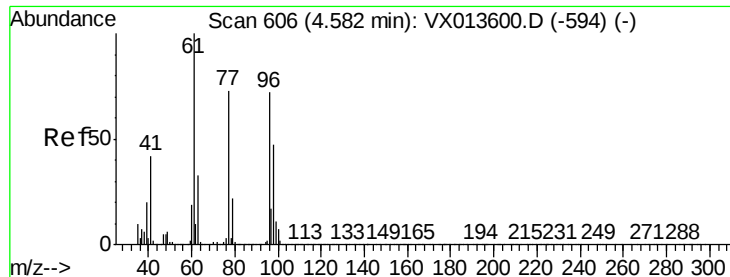
Tot Ion:	84	Resp:	4385
Ion	Ratio	Lower	Upper
84	100		
49	76.7	99.7	149.5#
51	24.4	29.9	44.9#
86	54.8	52.2	78.4



#21
trans-1,2-Dichloroethene
Concen: 0.517 ug/l
RT: 3.16 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX013883.D
Acq: 10 Dec 2019 04:37

Tgt Ion:	96	Resp:	3180
Ion	Ratio	Lower	Upper
96	100		
61	161.3	107.2	160.8#
98	52.5	51.4	77.0



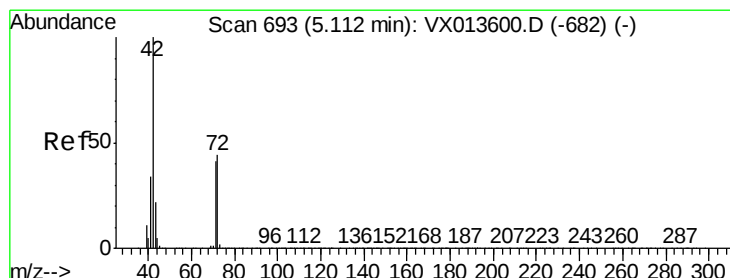
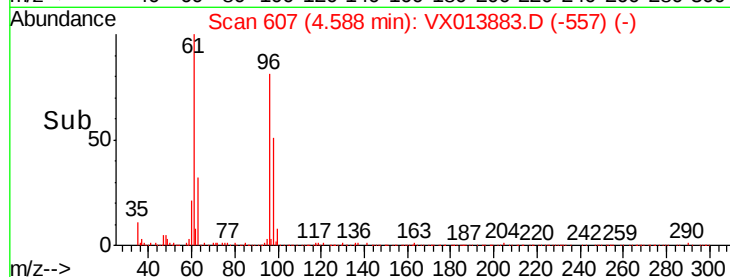
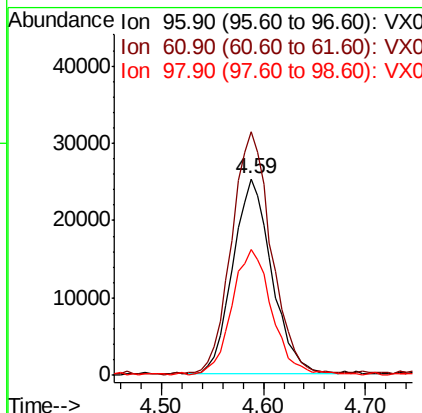
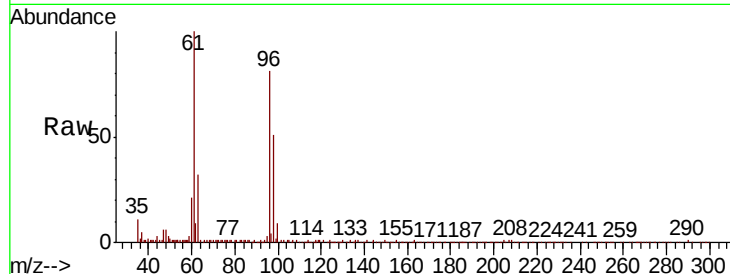


#27

cis-1,2-Dichloroethene
 Concen: 9.511 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX013883.D
 Acq: 10 Dec 2019 04:37

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-GAC2-IDW01

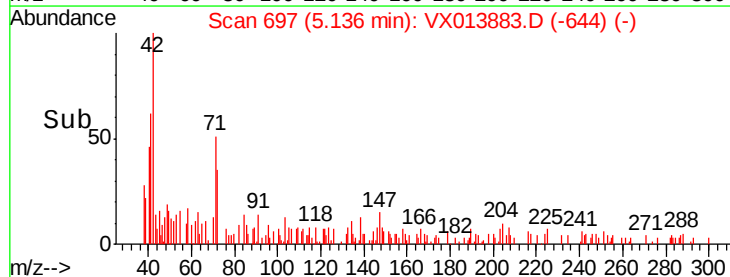
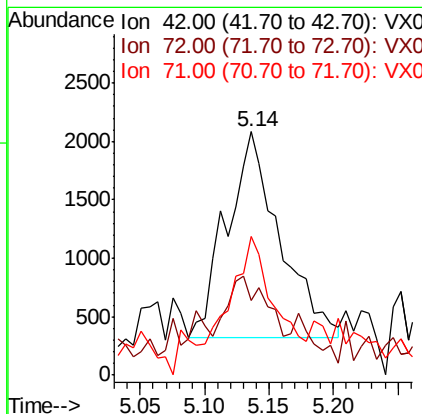
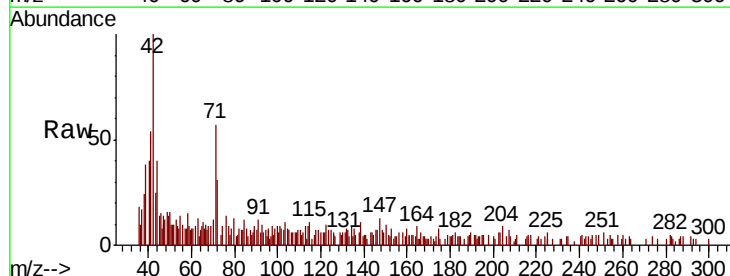
Tot Ion	Ratio	Lower	Upper
96	100		
61	125.3	0.0	286.4
98	64.8	0.0	127.4

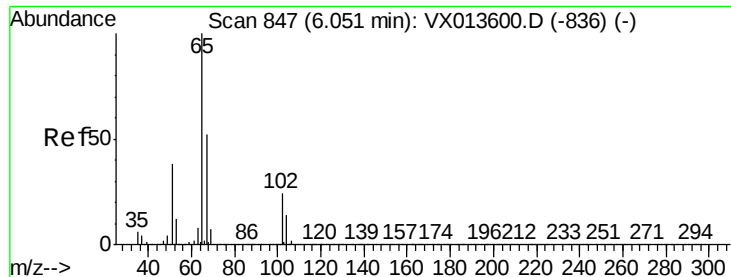


#29

Tetrahydrofuran
 Concen: 1.637 ug/l
 RT: 5.14 min Scan# 697
 Delta R.T. 0.02 min
 Lab File: VX013883.D
 Acq: 10 Dec 2019 04:37

Tgt Ion	Ratio	Lower	Upper
42	100		
72	19.8	36.3	54.5#
71	37.1	33.2	49.8





#33

1,2-Dichloroethane-d4

Concen: 48.888 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013883.D

Acq: 10 Dec 2019 04:37

Instrument :

MSVOA_X

ClientSampleId :

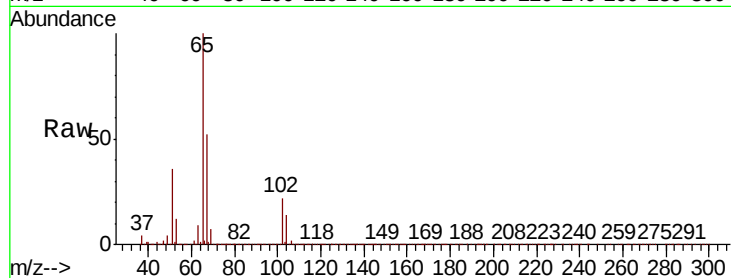
S32-GAC2-IDW01

Tot Ion: 65 Resp: 336465

Ion Ratio Lower Upper

65 100

67 51.7 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

150000

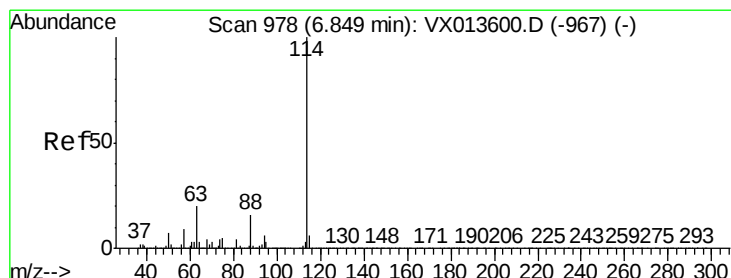
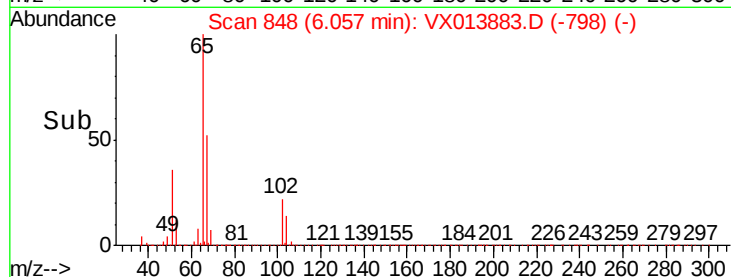
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50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013883.D

Acq: 10 Dec 2019 04:37

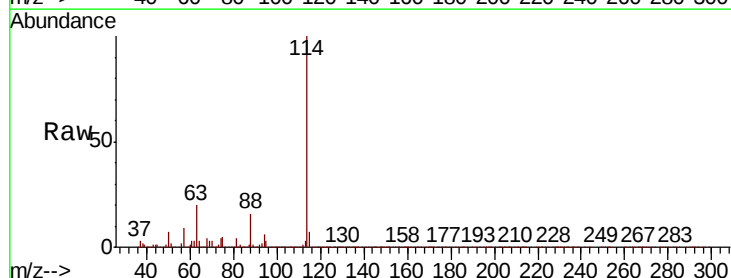
Tgt Ion: 114 Resp: 914573

Ion Ratio Lower Upper

114 100

63 20.2 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

500000

400000

300000

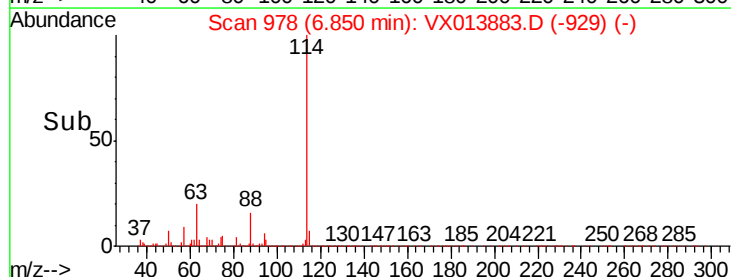
200000

100000

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Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.255 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013883.D

Acq: 10 Dec 2019 04:37

Instrument :

MSVOA_X

ClientSampleId :

S32-GAC2-IDW01

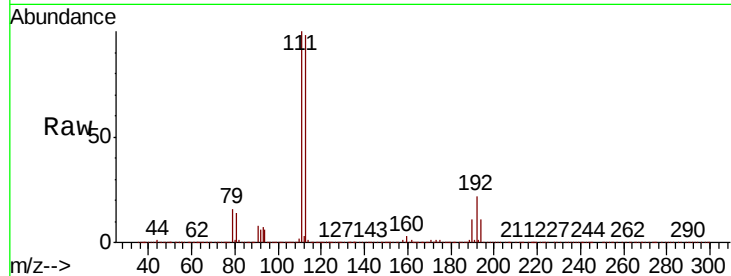
Tot Ion:113 Resp: 272831

Ion Ratio Lower Upper

113 100

111 102.8 83.6 125.4

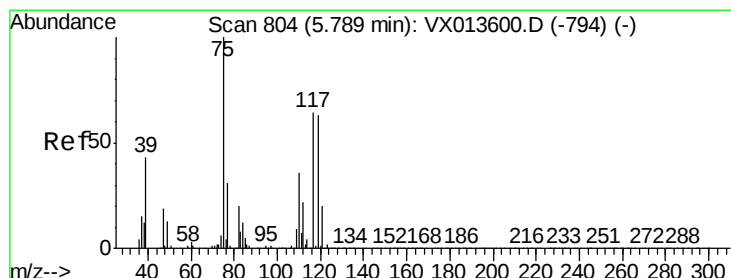
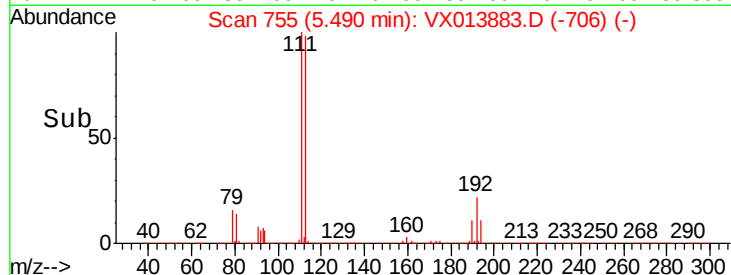
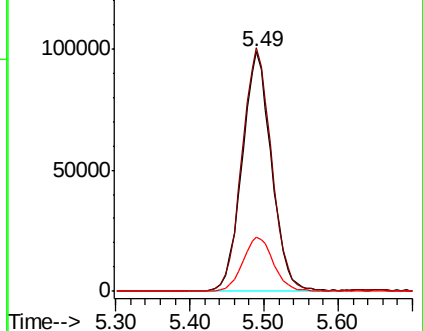
192 23.6 19.2 28.8



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: 4.916 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013883.D

Acq: 10 Dec 2019 04:37

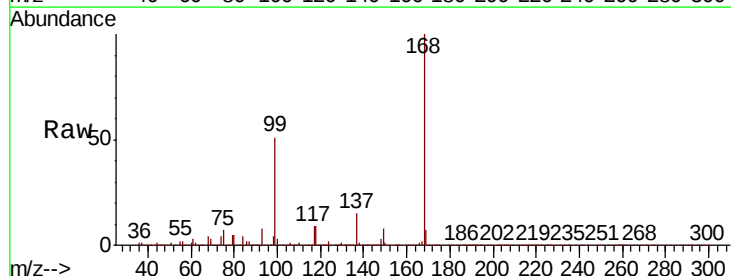
Tgt Ion: 75 Resp: 40812

Ion Ratio Lower Upper

75 100

110 11.3 18.1 54.1#

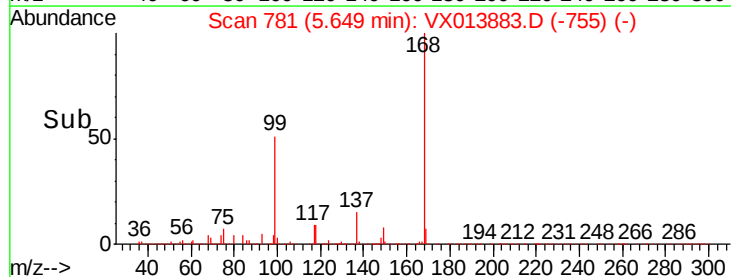
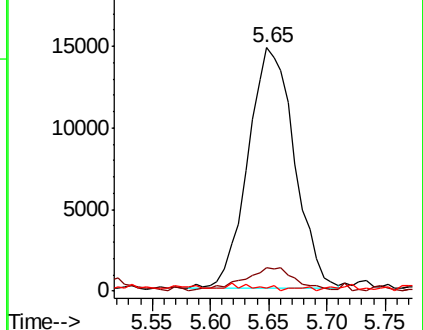
77 0.0 24.5 36.7#

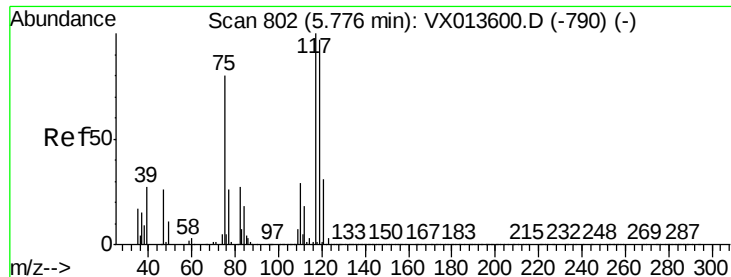


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

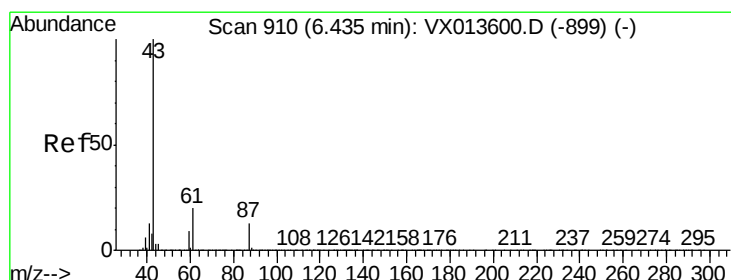
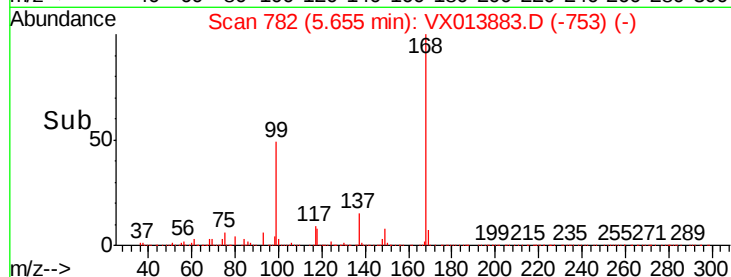
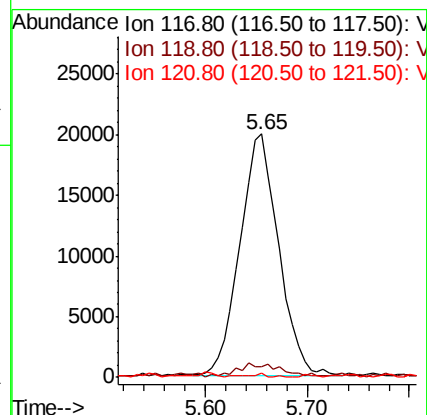
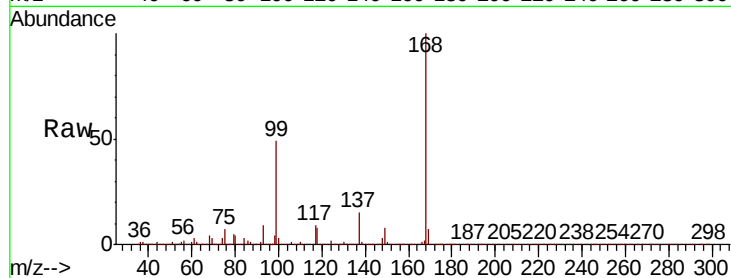




#38
Carbon Tetrachloride
Concen: 6.807 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX013883.D
Acq: 10 Dec 2019 04:37

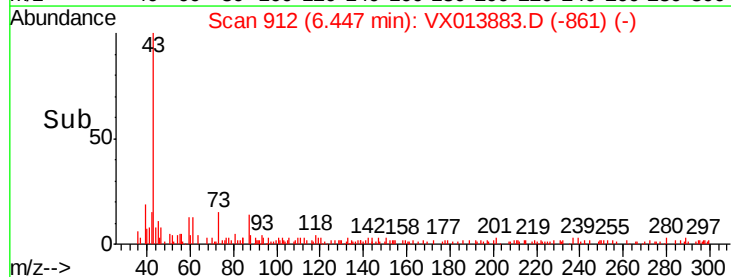
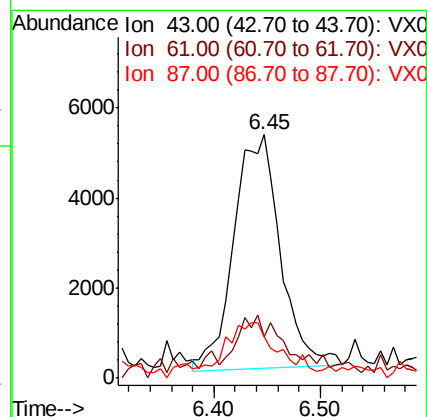
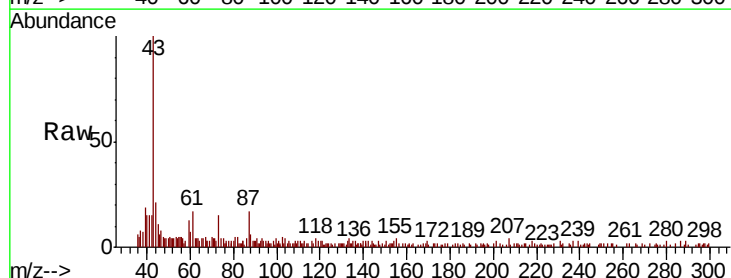
Instrument :
MSVOA_X
ClientSampleId :
S32-GAC2-IDW01

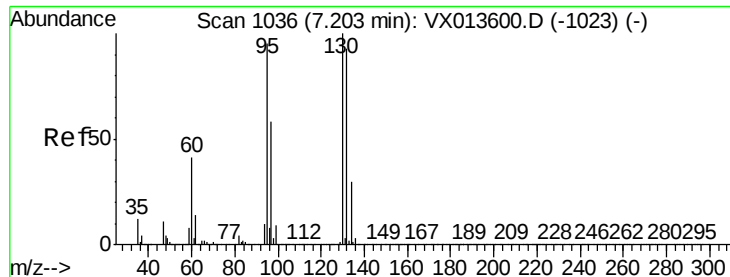
Tot Ion:117 Resp: 52110
Ion Ratio Lower Upper
117 100
119 3.3 77.5 116.3#
121 1.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 1.043 ug/l
RT: 6.45 min Scan# 912
Delta R.T. 0.01 min
Lab File: VX013883.D
Acq: 10 Dec 2019 04:37

Tgt Ion: 43 Resp: 15996
Ion Ratio Lower Upper
43 100
61 21.6 16.3 24.5
87 20.5 10.8 16.2#





#44

Trichloroethene

Concen: 0.625 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013883.D

Acq: 10 Dec 2019 04:37

Instrument :

MSVOA_X

ClientSampleId :

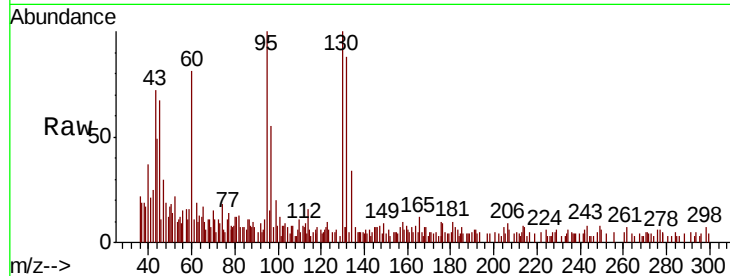
S32-GAC2-IDW01

Tot Ion:130 Resp: 4336

Ion Ratio Lower Upper

130 100

95 101.8 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

2000

1500

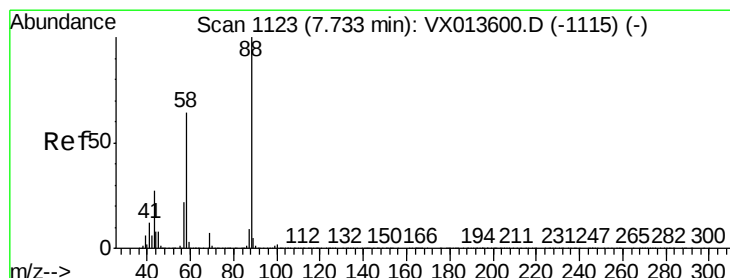
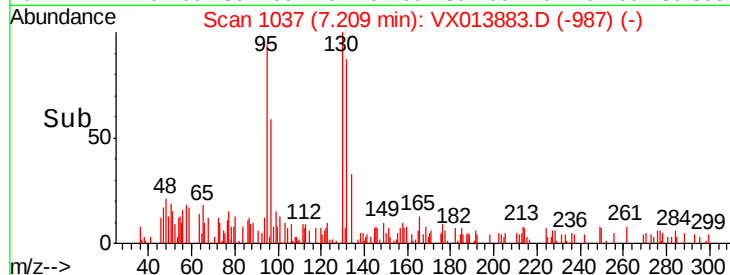
1000

500

0

7.15 7.20 7.25

Time-->



#49

1,4-Dioxane

Concen: 2.009 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VX013883.D

Acq: 10 Dec 2019 04:37

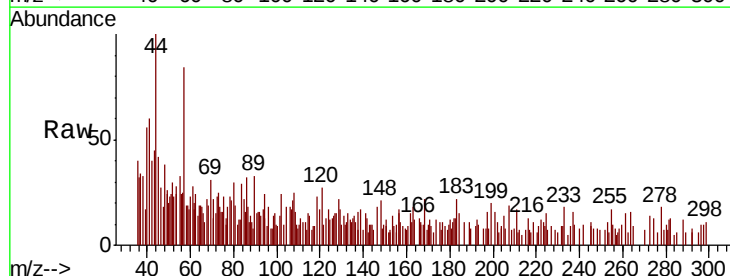
Tgt Ion: 88 Resp: 335

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

1000

800

600

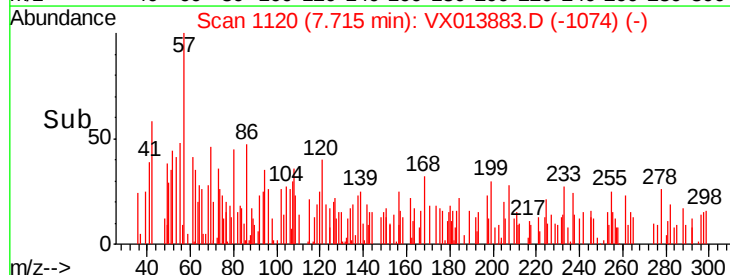
400

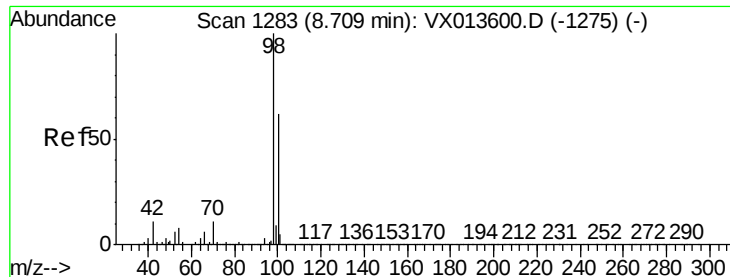
200

0

7.70 7.72 7.74

Time-->





#50

Toluene-d8

Concen: 49.172 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013883.D

Acq: 10 Dec 2019 04:37

Instrument :

MSVOA_X

ClientSampleId :

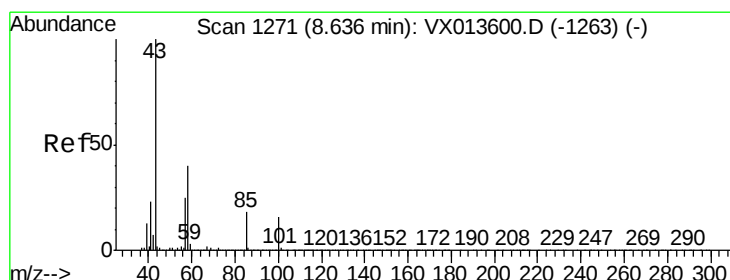
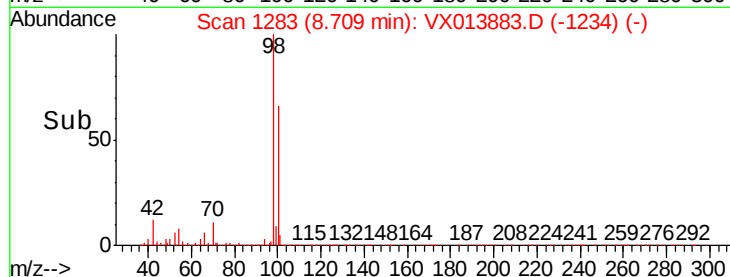
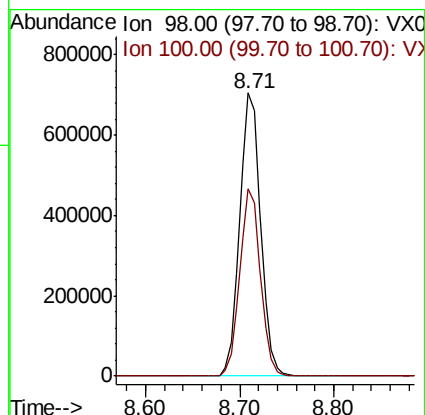
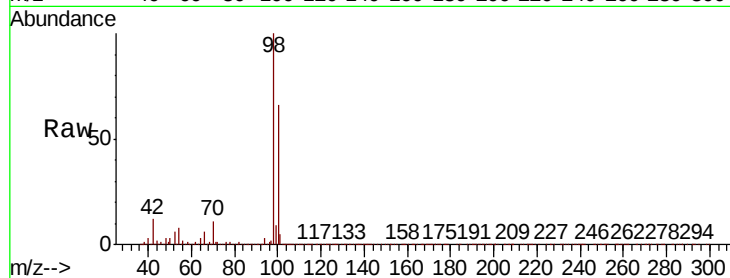
S32-GAC2-IDW01

Tot Ion: 98 Resp: 1083195

Ion Ratio Lower Upper

98 100

100 65.4 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 0.506 ug/l

RT: 8.61 min Scan# 1267

Delta R.T. -0.02 min

Lab File: VX013883.D

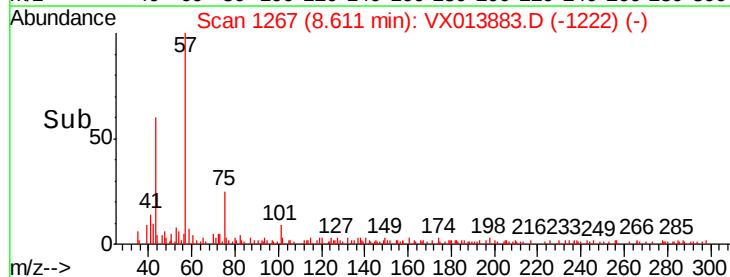
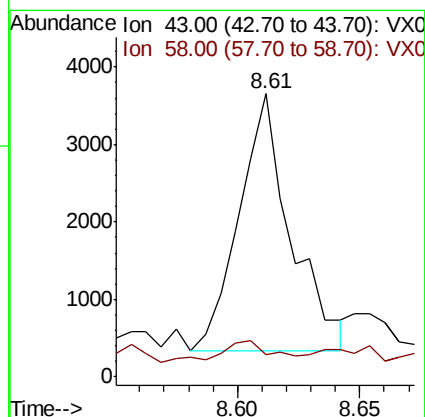
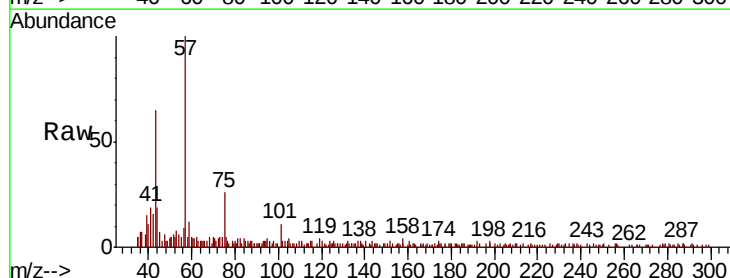
Acq: 10 Dec 2019 04:37

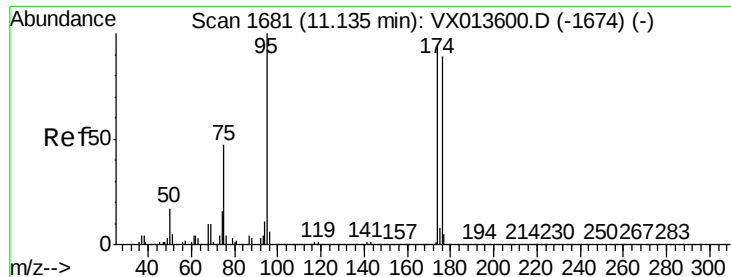
Tgt Ion: 43 Resp: 4877

Ion Ratio Lower Upper

43 100

58 5.8 32.1 48.1#





#62

4-Bromofluorobenzene

Concen: 45.553 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013883.D

Acq: 10 Dec 2019 04:37

Instrument :

MSVOA_X

ClientSampleId :

S32-GAC2-IDW01

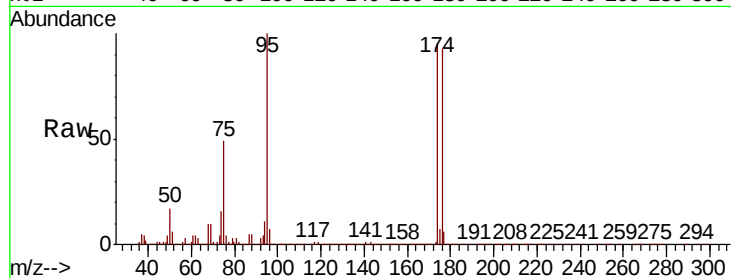
Tot Ion: 95 Resp: 361854

Ion Ratio Lower Upper

95 100

174 90.3 0.0 180.0

176 87.5 0.0 173.6

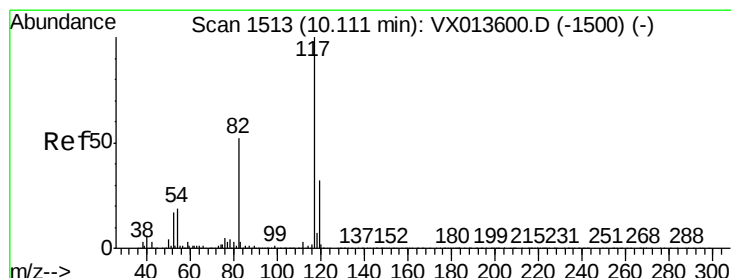
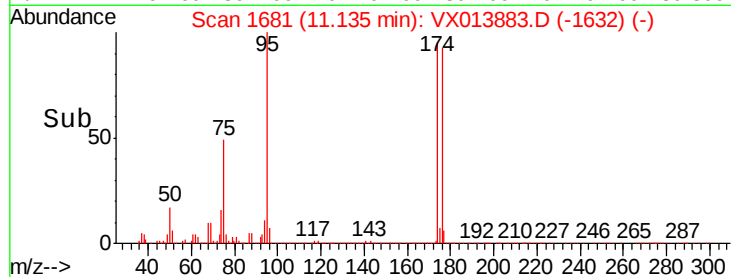


Abundance Ion 94.90 (94.60 to 95.60): VX013600.D (-1674) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013883.D

Acq: 10 Dec 2019 04:37

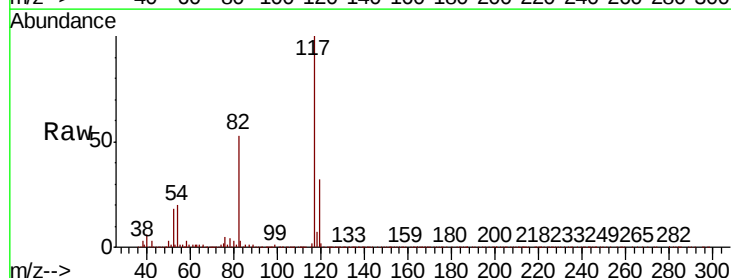
Tgt Ion: 117 Resp: 810343

Ion Ratio Lower Upper

117 100

82 52.5 41.8 62.8

119 32.2 25.8 38.8

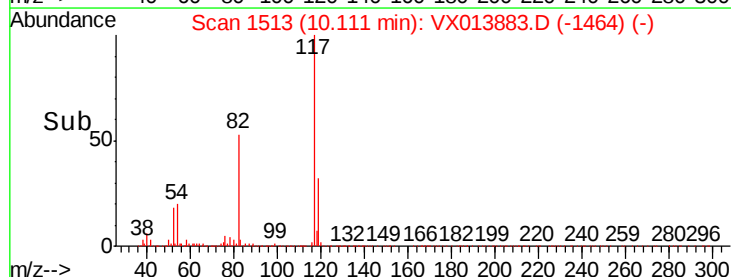


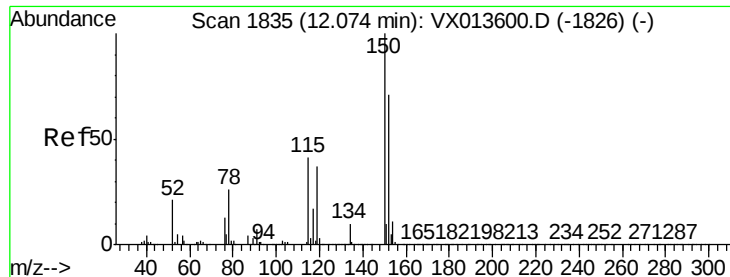
Abundance Ion 116.90 (116.60 to 117.60): VX013600.D (-1500) (-)

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

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

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013883.D

Acq: 10 Dec 2019 04:37

Instrument :

MSVOA_X

ClientSampleId :

S32-GAC2-IDW01

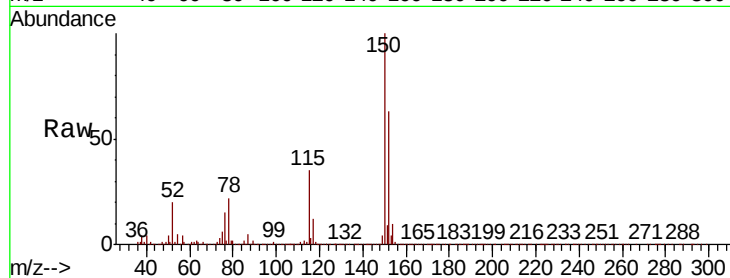
Tot Ion:152 Resp: 361520

Ion Ratio Lower Upper

152 100

115 55.3 38.4 115.1

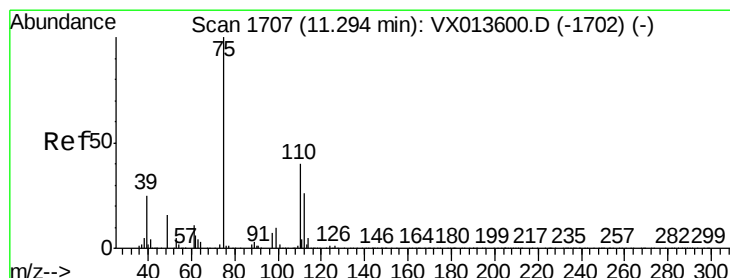
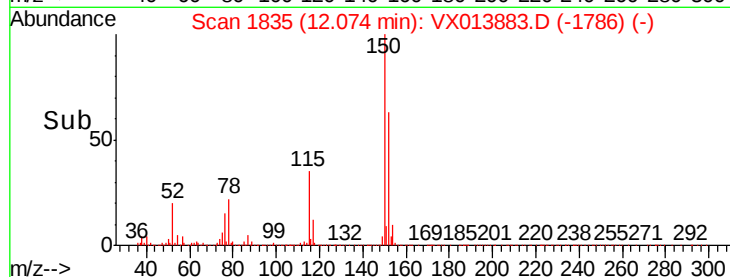
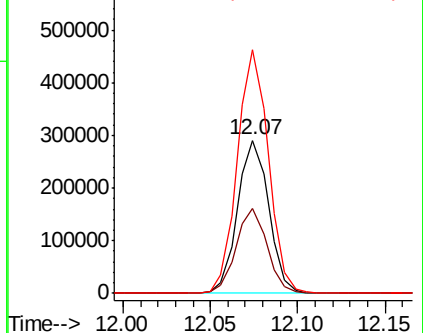
150 158.7 0.0 346.8



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: 21.757 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013883.D

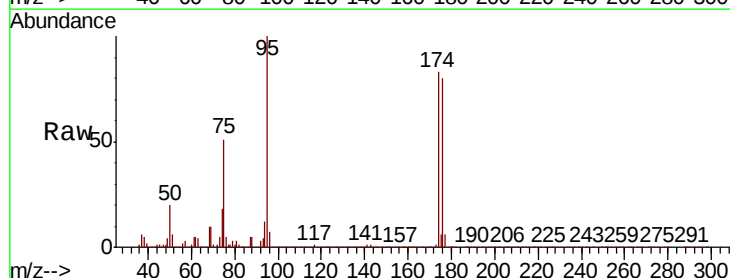
Acq: 10 Dec 2019 04:37

Tgt Ion: 75 Resp: 176912

Ion Ratio Lower Upper

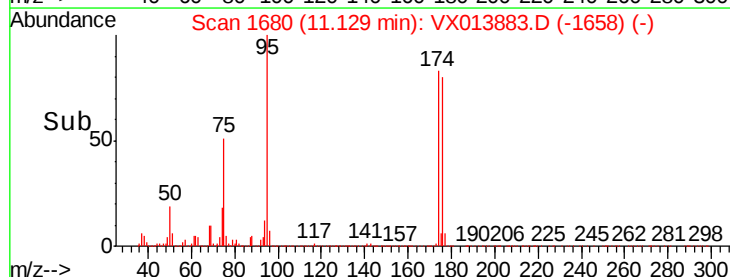
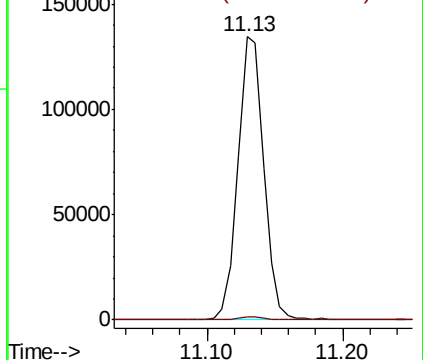
75 100

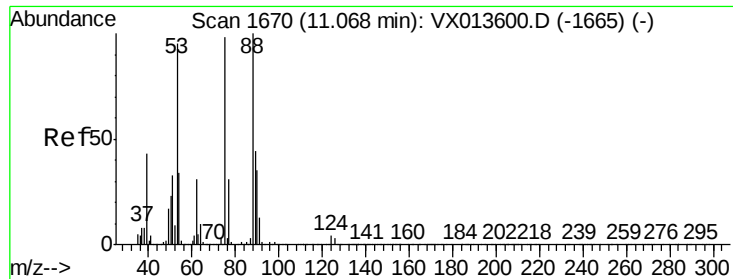
77 1.8 19.1 57.5#



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: 59.524 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013883.D

Acq: 10 Dec 2019 04:37

Instrument :

MSVOA_X

ClientSampleId :

S32-GAC2-IDW01

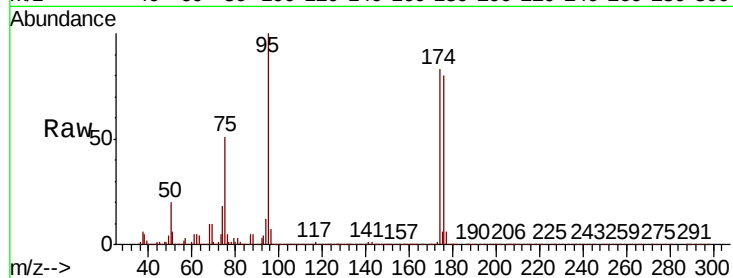
Tot Ion: 75 Resp: 176912

Ion Ratio Lower Upper

75 100

53 0.4 78.2 117.2#

89 0.2 35.4 53.2#



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

