

Data File : VX013896.D
Acq On : 10 Dec 2019 14:26
Operator : JC/SP
Sample : K6186-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
S32-GAC2-IDW01

Quant Time: Dec 11 02:24:43 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	587469	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	892499	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	805104	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	356143	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	328493	48.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.34%	
35) Dibromofluoromethane	5.49	113	272159	49.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.66%	
50) Toluene-d8	8.71	98	1068046	49.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.36%	
62) 4-Bromofluorobenzene	11.13	95	358982	46.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.62%	

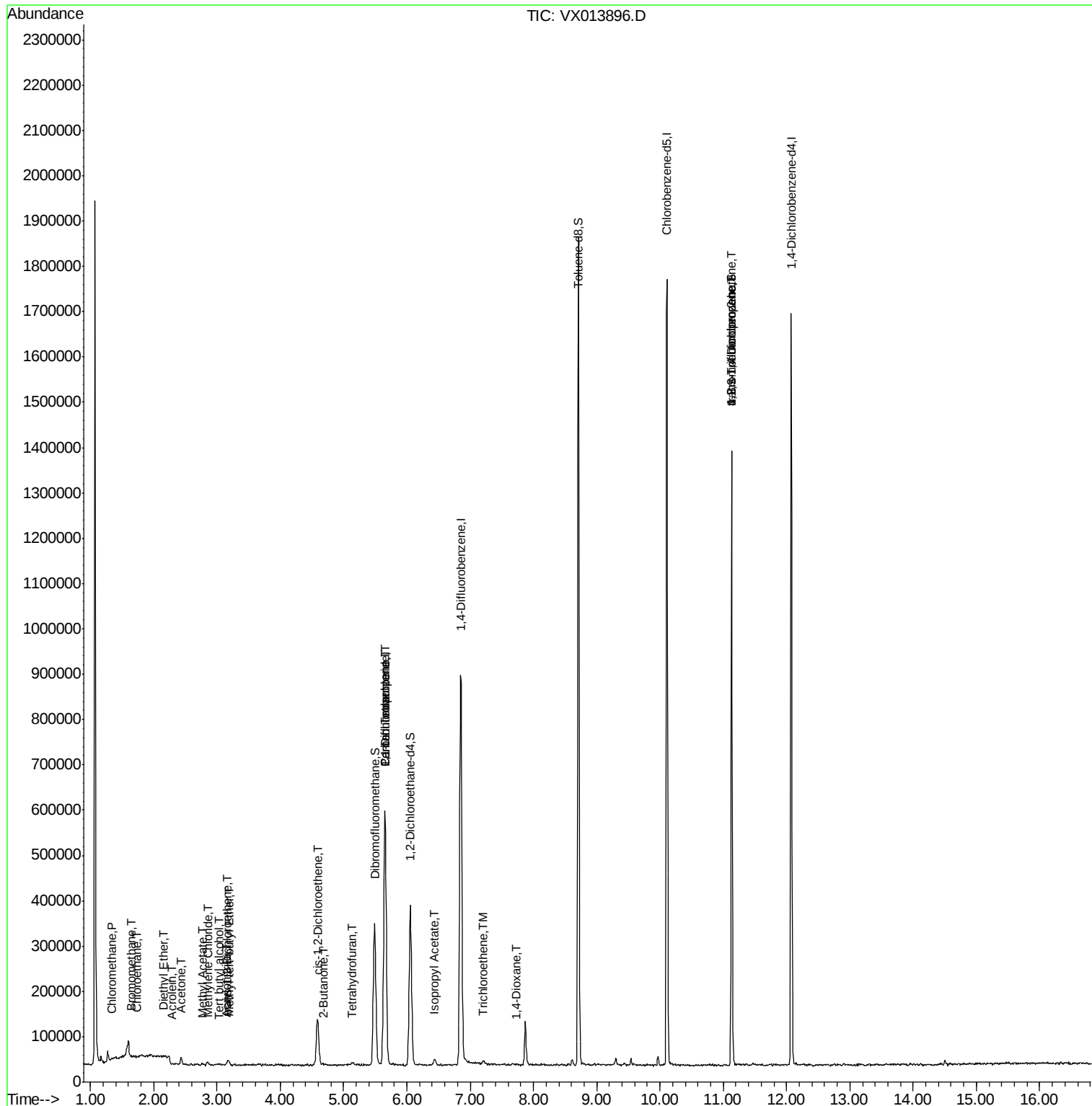
Target Compounds				Qvalue		
3) Chloromethane	1.33	50	1994	0.272	ug/l #	50
5) Bromomethane	1.64	94	1769	0.319	ug/l #	70
6) Chloroethane	1.72	64	1241	0.264	ug/l #	81
8) Diethyl Ether	2.17	74	1154	0.278	ug/l	54
11) Tert butyl alcohol	3.03	59	3489	2.073	ug/l #	74
13) Acrolein	2.29	56	812	6.708	ug/l #	64
15) Acrylonitrile	3.14	53	727	0.209	ug/l #	51
16) Acetone	2.43	43	19749	5.866	ug/l	97
18) Methyl Acetate	2.77	43	2396	0.256	ug/l #	85
19) Methyl tert-butyl Ether	3.19	73	8865	0.479	ug/l	96
20) Methylene Chloride	2.84	84	3881	0.600	ug/l #	80
21) trans-1,2-Dichloroethene	3.16	96	3283	0.539	ug/l	88
25) 2-Butanone	4.67	43	1561	0.312	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	67994	9.721	ug/l	90
29) Tetrahydrofuran	5.13	42	5994	1.943	ug/l #	86
36) 1,1-Dichloropropene	5.65	75	39761	4.908	ug/l #	50
38) Carbon Tetrachloride	5.65	117	52601	7.041	ug/l #	15
43) Isopropyl Acetate	6.43	43	19552	1.307	ug/l	96
44) Trichloroethene	7.21	130	3754	0.554	ug/l	98
49) 1,4-Dioxane	7.73	88	836	5.137	ug/l #	24
76) 1,2,3-Trichloropropane	11.13	75	175160	21.867	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	175160	59.824	ug/l #	11

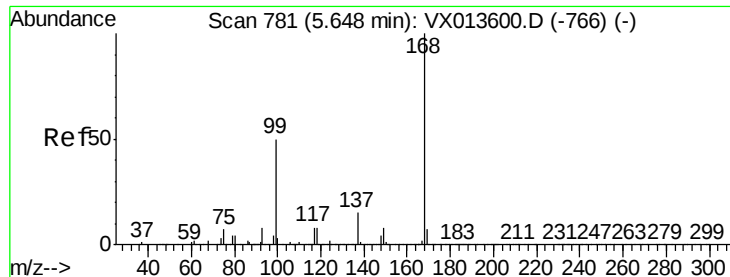
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

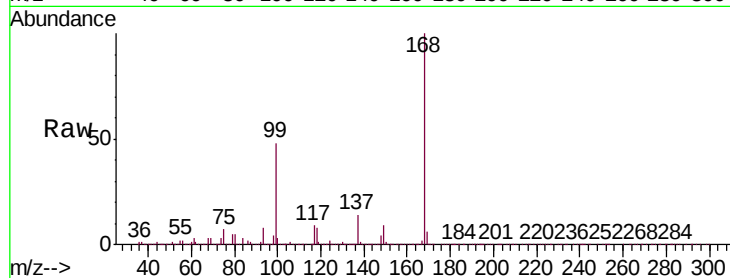
S32-GAC2-IDW01

Tgt Ion:168 Resp: 587469

Ion Ratio Lower Upper

168 100

99 48.0 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

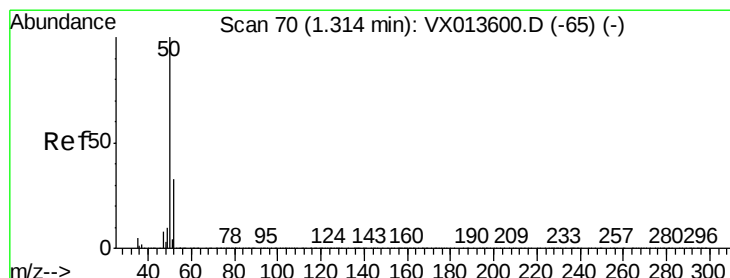
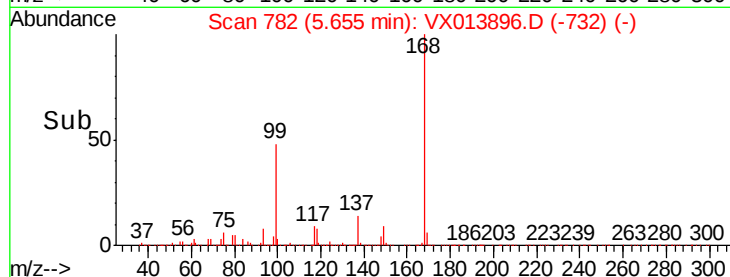
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.272 ug/l

RT: 1.33 min Scan# 72

Delta R.T. 0.01 min

Lab File: VX013896.D

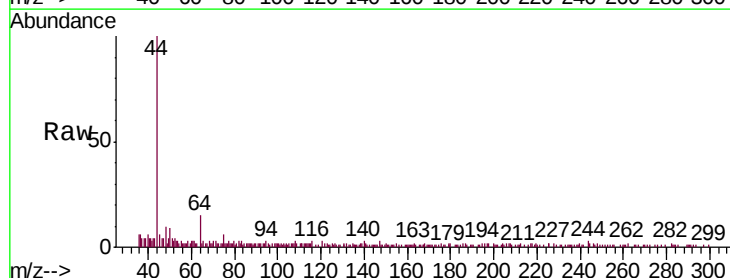
Acq: 10 Dec 2019 14:26

Tgt Ion: 50 Resp: 1994

Ion Ratio Lower Upper

50 100

52 4.7 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

800

600

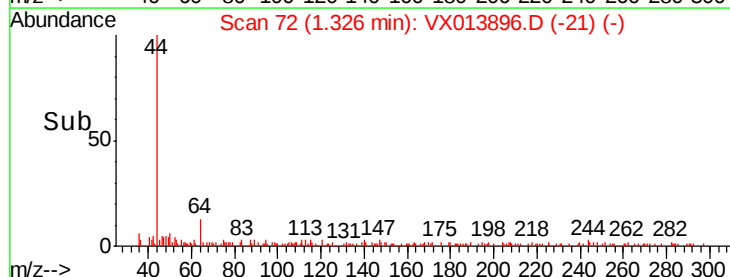
400

200

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: 0.319 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

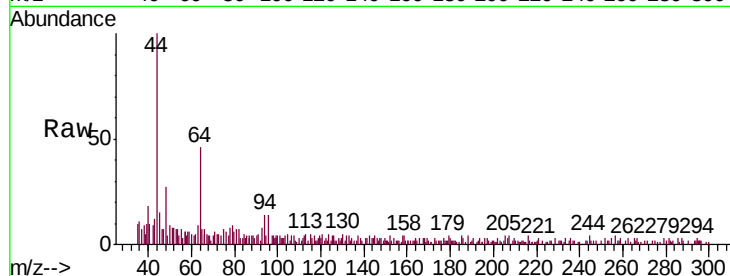
S32-GAC2-IDW01

Tgt Ion: 94 Resp: 1769

Ion Ratio Lower Upper

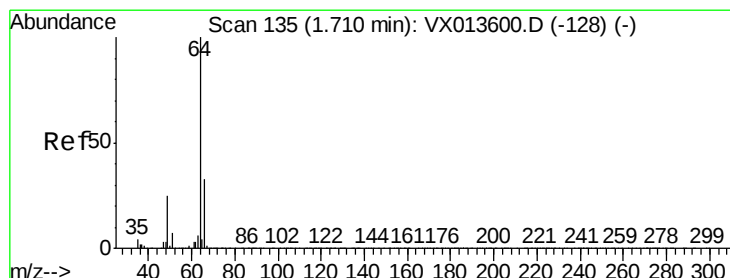
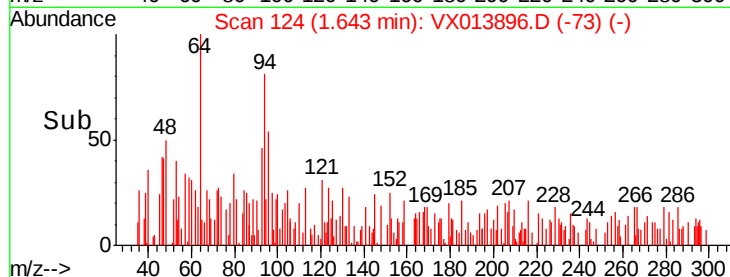
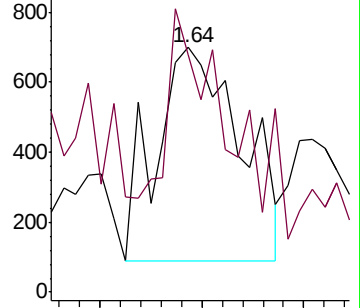
94 100

96 66.8 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.264 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX013896.D

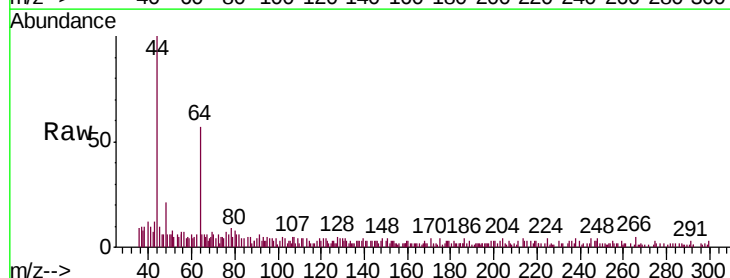
Acq: 10 Dec 2019 14:26

Tgt Ion: 64 Resp: 1241

Ion Ratio Lower Upper

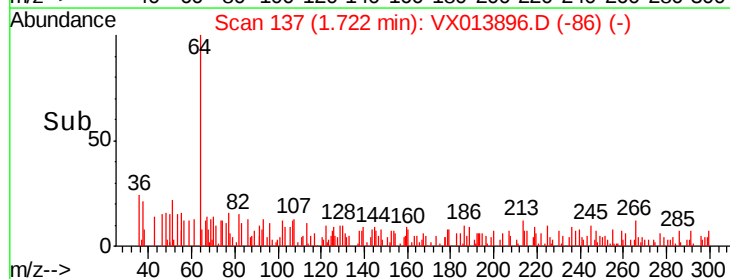
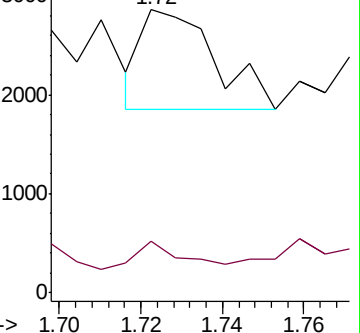
64 100

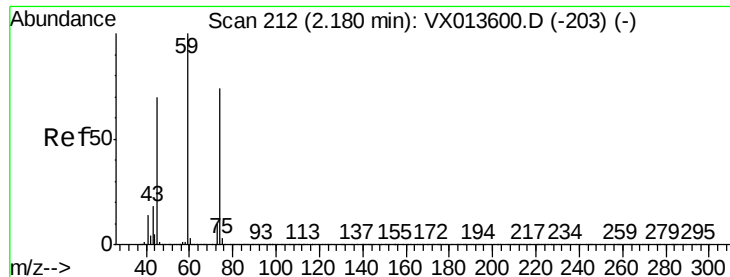
66 22.4 26.7 40.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.278 ug/l

RT: 2.17 min Scan# 210

Delta R.T. -0.01 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

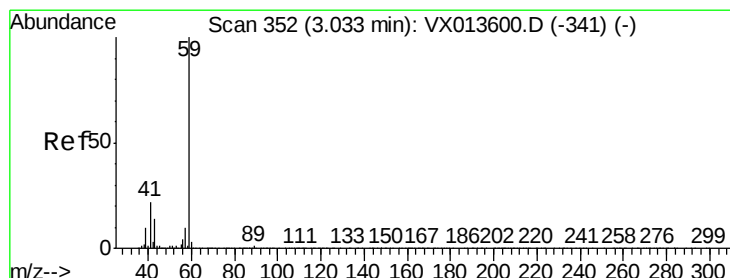
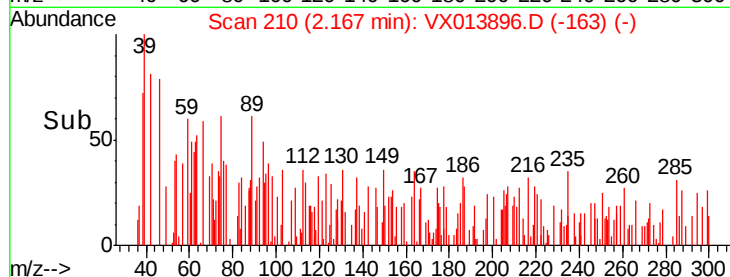
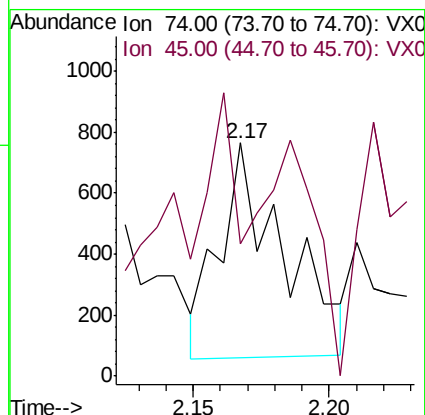
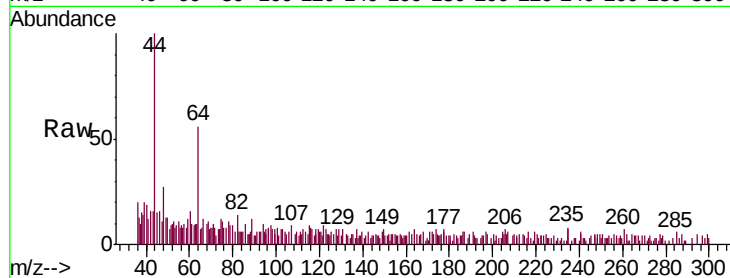
S32-GAC2-IDW01

Tgt Ion: 74 Resp: 1154

Ion Ratio Lower Upper

74 100

45 52.1 48.9 146.8



#11

Tert butyl alcohol

Concen: 2.073 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX013896.D

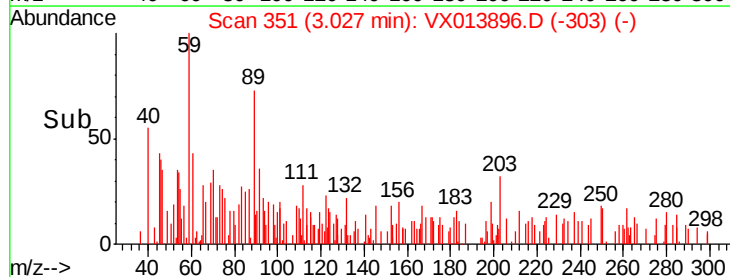
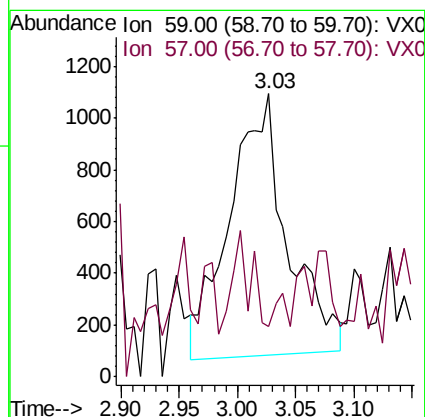
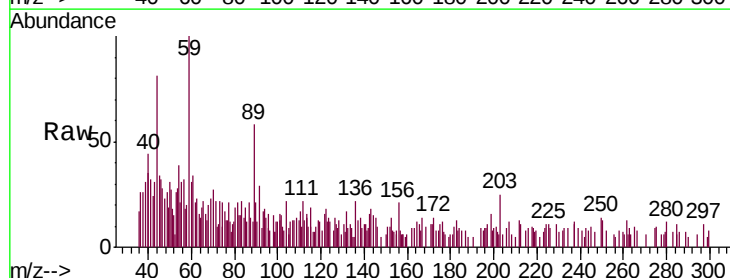
Acq: 10 Dec 2019 14:26

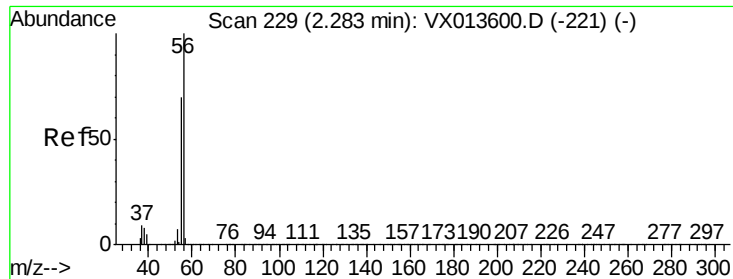
Tgt Ion: 59 Resp: 3489

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#

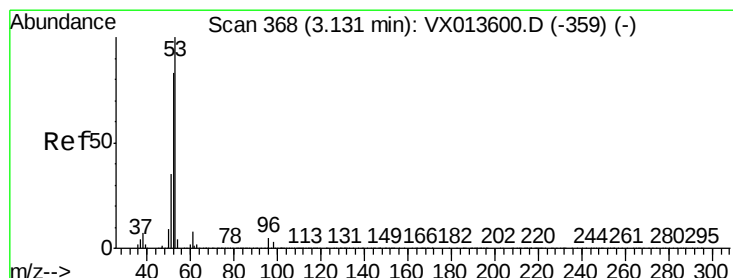
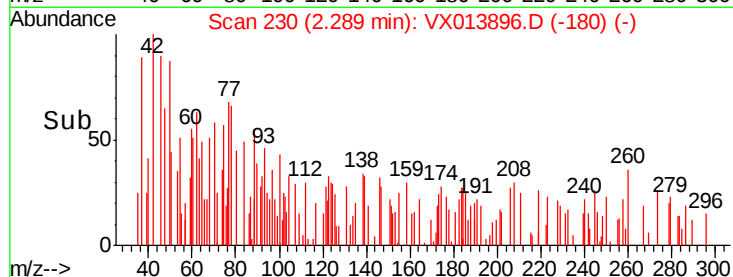
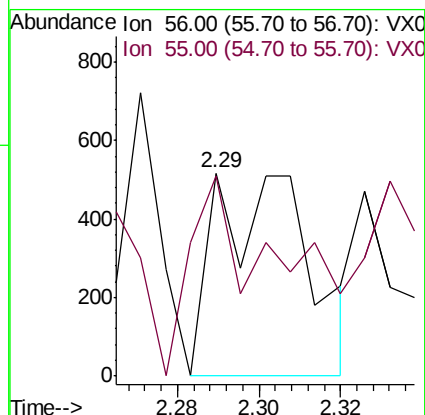
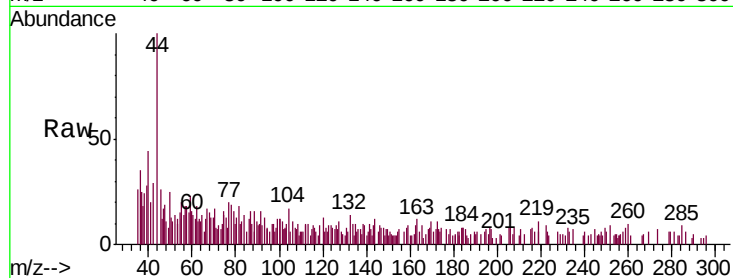




#13
Acrolein
Concen: 6.708 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX013896.D
Acq: 10 Dec 2019 14:26

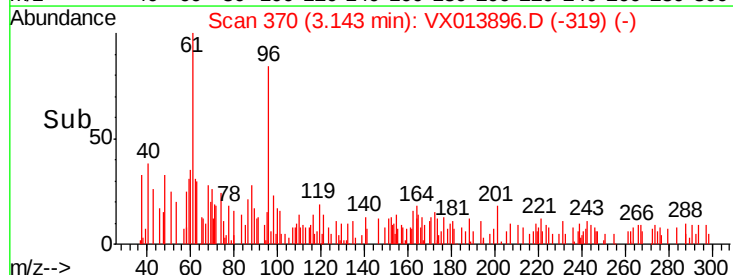
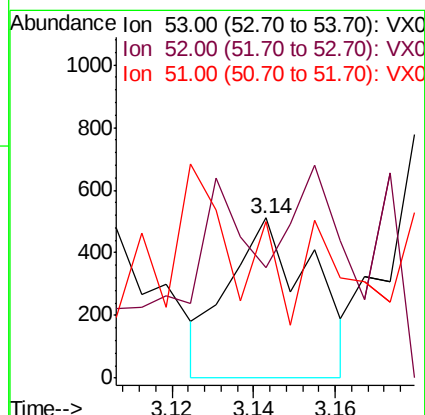
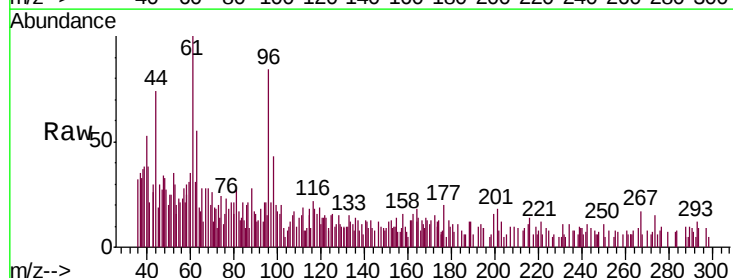
Instrument :
MSVOA_X
ClientSampleId :
S32-GAC2-IDW01

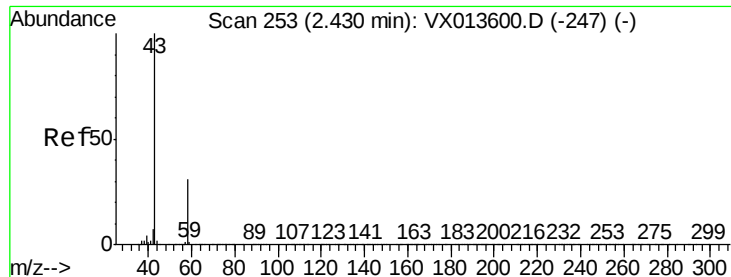
Tgt Ion: 56 Resp: 812
Ion Ratio Lower Upper
56 100
55 99.9 56.2 84.4#



#15
Acrylonitrile
Concen: 0.209 ug/l
RT: 3.14 min Scan# 370
Delta R.T. 0.01 min
Lab File: VX013896.D
Acq: 10 Dec 2019 14:26

Tgt Ion: 53 Resp: 727
Ion Ratio Lower Upper
53 100
52 43.7 66.2 99.2#
51 0.0 29.0 43.6#

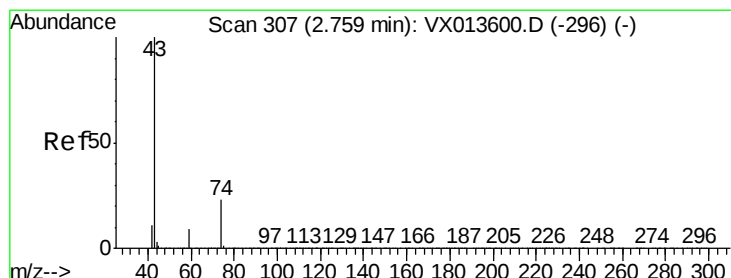
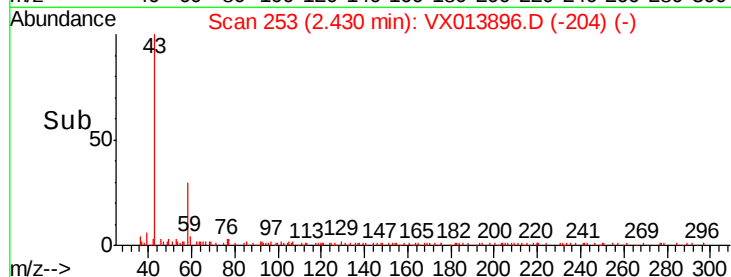
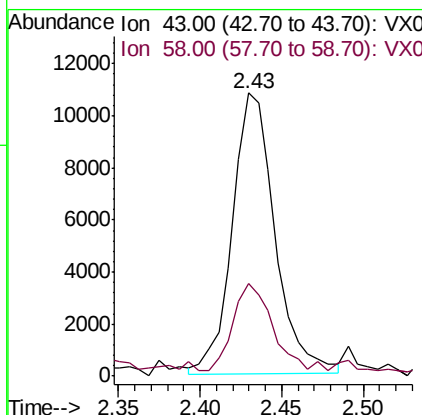
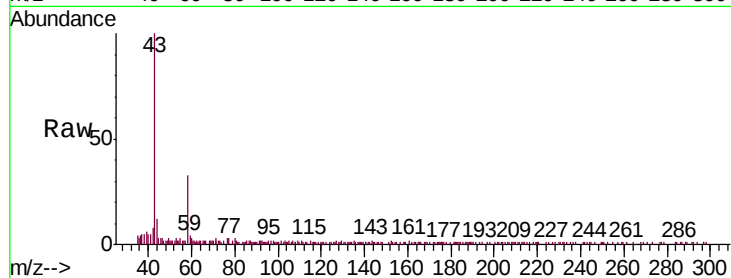




#16
Acetone
Concen: 5.866 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013896.D
Acq: 10 Dec 2019 14:26

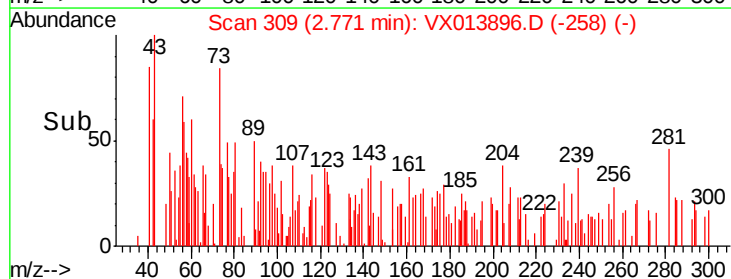
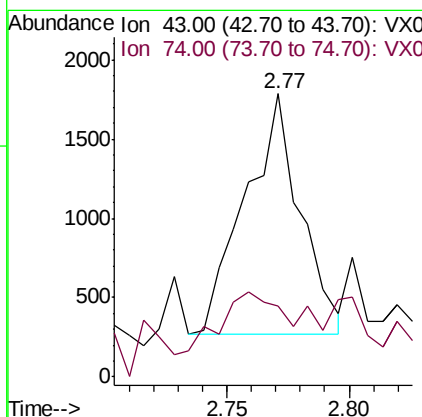
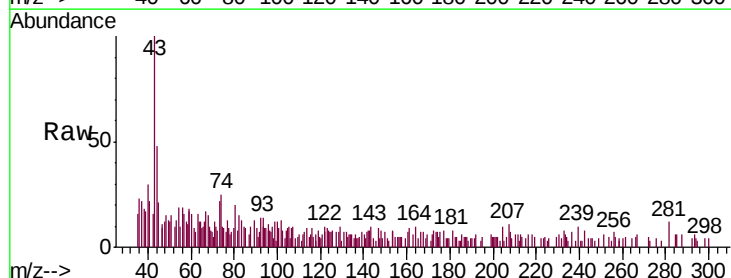
Instrument :
MSVOA_X
ClientSampleId :
S32-GAC2-IDW01

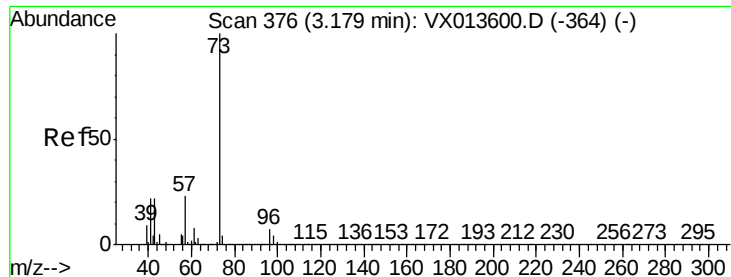
Tgt Ion: 43 Resp: 19749
Ion Ratio Lower Upper
43 100
58 29.2 24.6 36.8



#18
Methyl Acetate
Concen: 0.256 ug/l
RT: 2.77 min Scan# 309
Delta R.T. 0.01 min
Lab File: VX013896.D
Acq: 10 Dec 2019 14:26

Tgt Ion: 43 Resp: 2396
Ion Ratio Lower Upper
43 100
74 31.6 19.5 29.3#



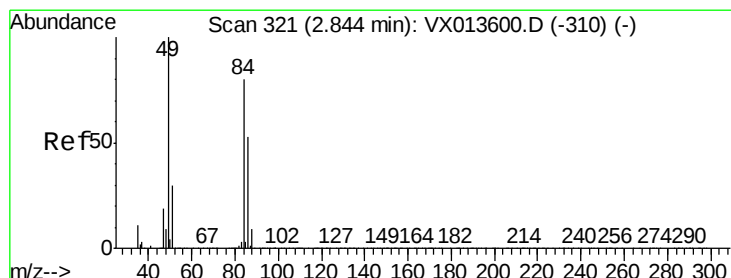
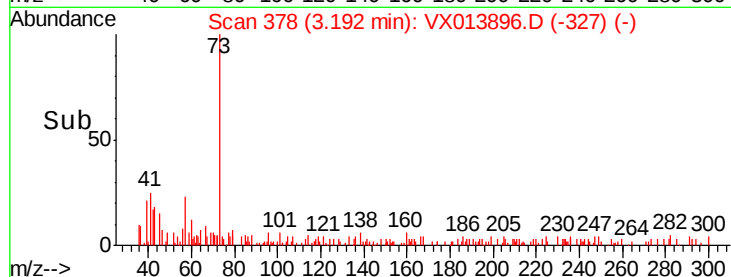
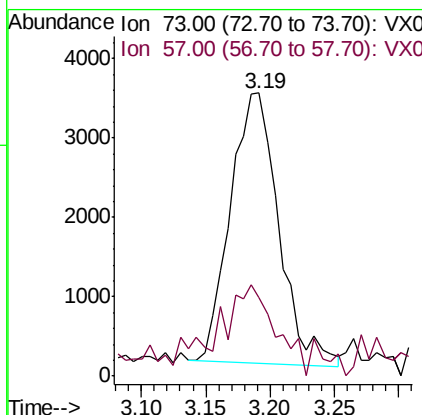
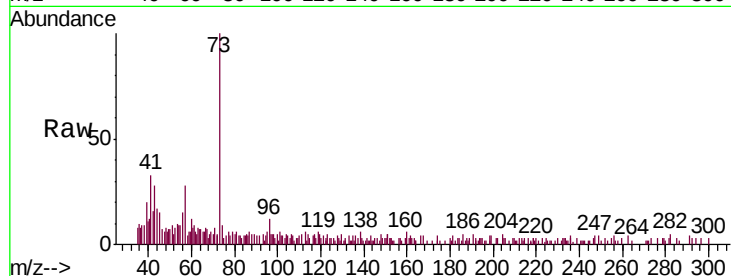


#19

Methyl tert-butyl Ether
 Concen: 0.479 ug/l
 RT: 3.19 min Scan# 378
 Delta R.T. 0.01 min
 Lab File: VX013896.D
 Acq: 10 Dec 2019 14:26

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-GAC2-IDW01

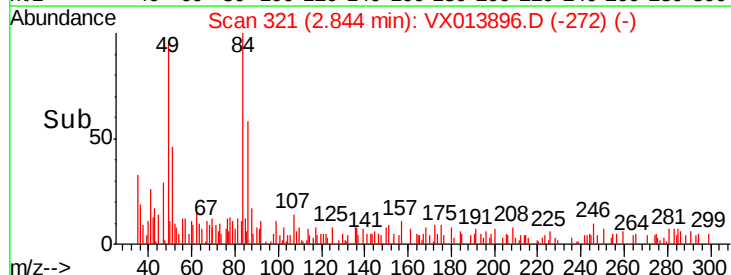
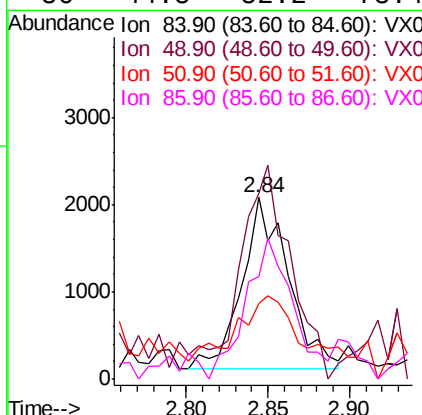
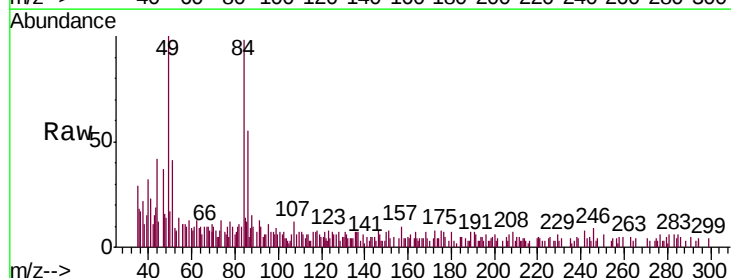
Tgt Ion: 73 Resp: 8865
 Ion Ratio Lower Upper
 73 100
 57 21.0 18.3 27.5

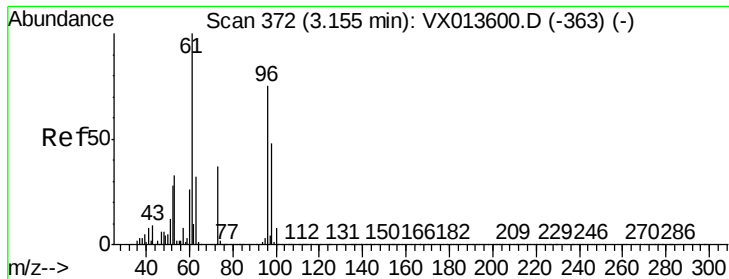


#20

Methylene Chloride
 Concen: 0.600 ug/l
 RT: 2.84 min Scan# 321
 Delta R.T. 0.00 min
 Lab File: VX013896.D
 Acq: 10 Dec 2019 14:26

Tgt Ion: 84 Resp: 3881
 Ion Ratio Lower Upper
 84 100
 49 100.0 99.7 149.5
 51 33.8 29.9 44.9
 86 44.5 52.2 78.4#





#21

trans-1,2-Dichloroethene

Concen: 0.539 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

S32-GAC2-IDW01

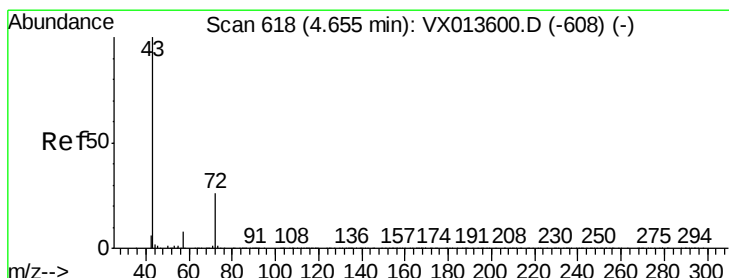
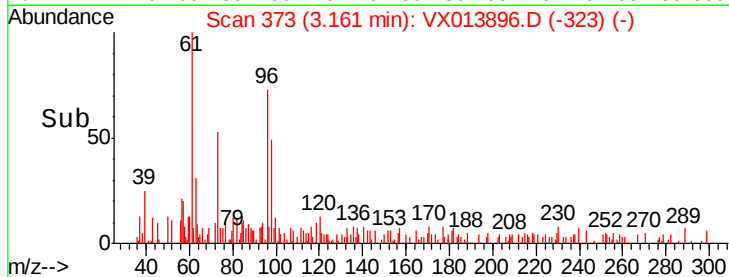
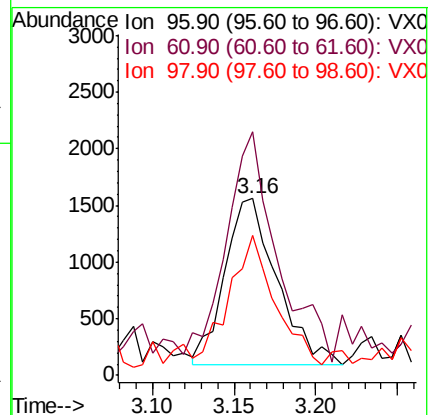
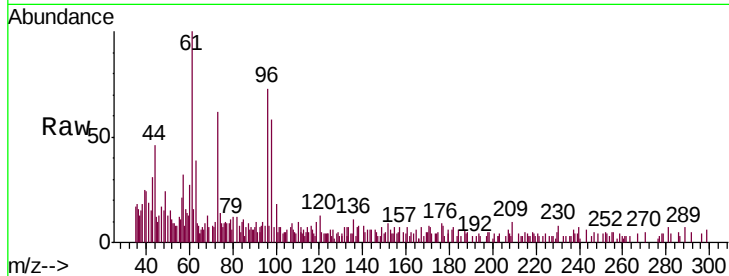
Tgt Ion: 96 Resp: 3283

Ion Ratio Lower Upper

96 100

61 120.5 107.2 160.8

98 73.6 51.4 77.0



#25

2-Butanone

Concen: 0.312 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX013896.D

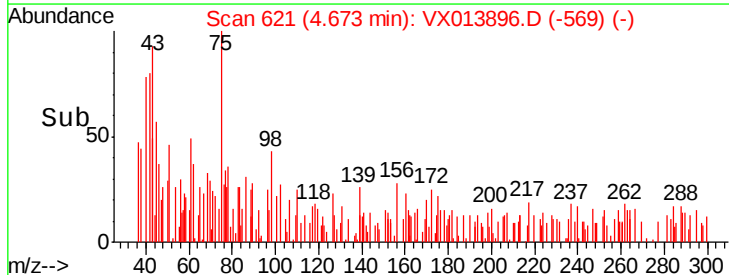
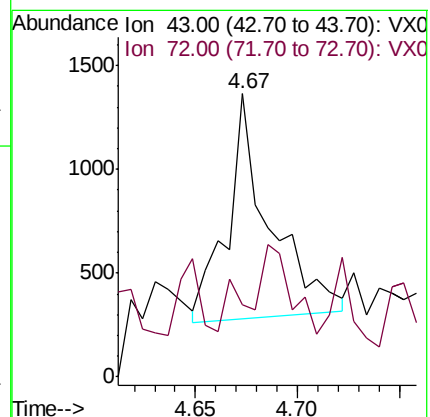
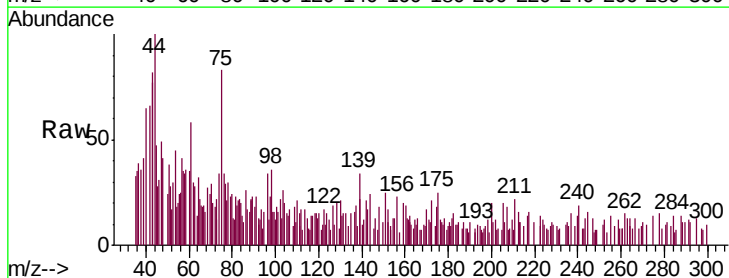
Acq: 10 Dec 2019 14:26

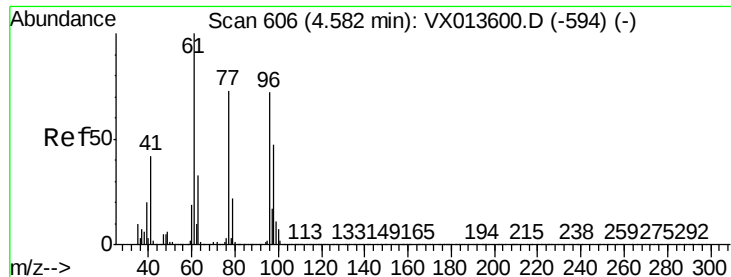
Tgt Ion: 43 Resp: 1561

Ion Ratio Lower Upper

43 100

72 0.0 20.6 31.0#



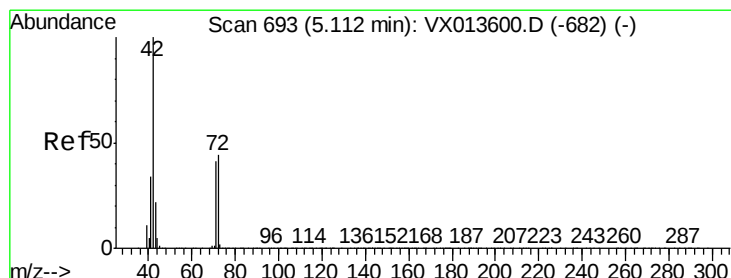
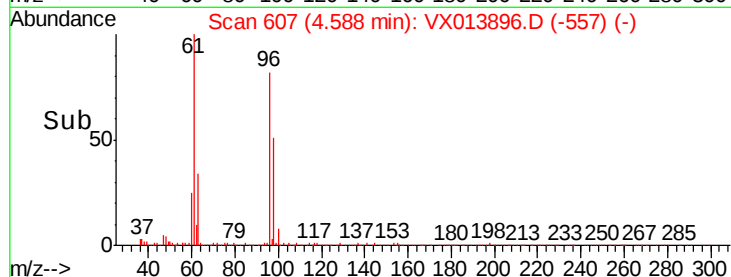
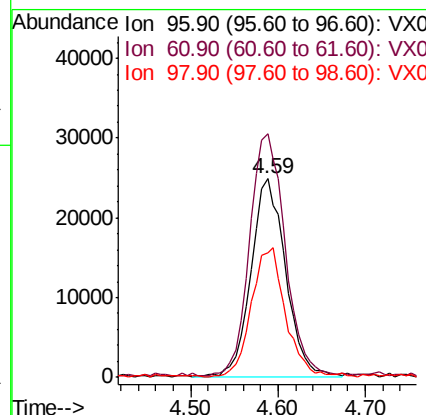
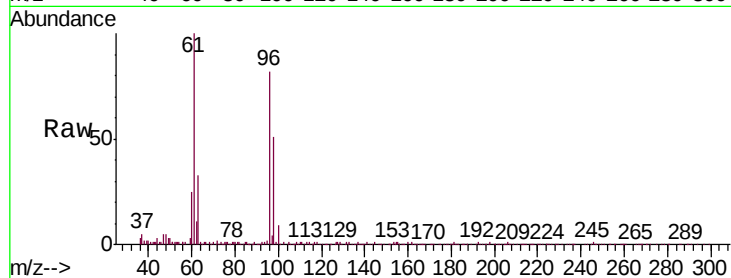


#27

cis-1,2-Dichloroethene
Concen: 9.721 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013896.D
Acq: 10 Dec 2019 14:26

Instrument :
MSVOA_X
ClientSampleId :
S32-GAC2-IDW01

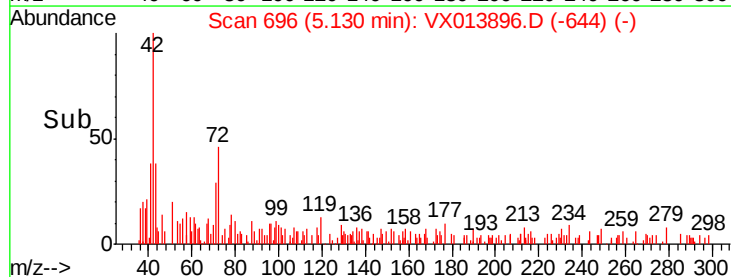
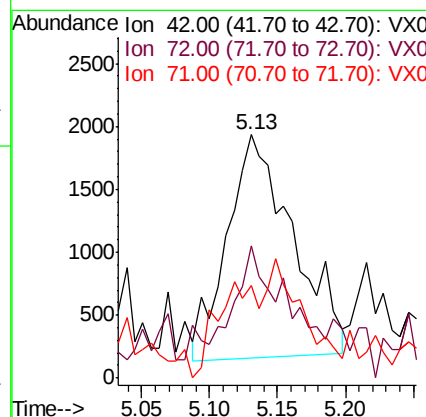
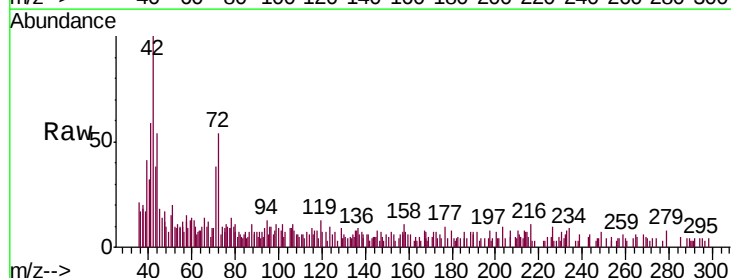
Tgt Ion: 96 Resp: 67994
Ion Ratio Lower Upper
96 100
61 125.8 0.0 286.4
98 63.6 0.0 127.4

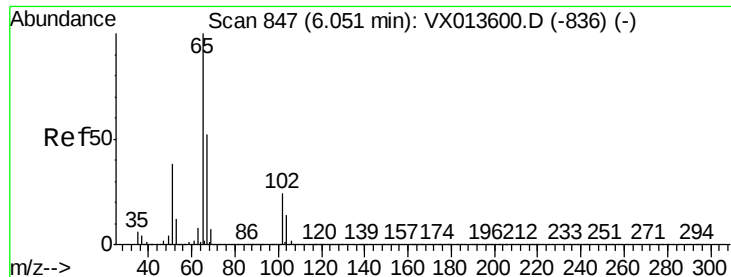


#29

Tetrahydrofuran
Concen: 1.943 ug/l
RT: 5.13 min Scan# 696
Delta R.T. 0.02 min
Lab File: VX013896.D
Acq: 10 Dec 2019 14:26

Tgt Ion: 42 Resp: 5994
Ion Ratio Lower Upper
42 100
72 41.8 36.3 54.5
71 26.4 33.2 49.8#





#33

1,2-Dichloroethane-d4

Concen: 48.172 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

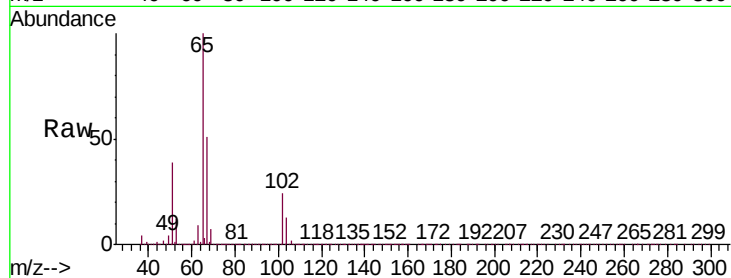
S32-GAC2-IDW01

Tgt Ion: 65 Resp: 328493

Ion Ratio Lower Upper

65 100

67 52.4 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

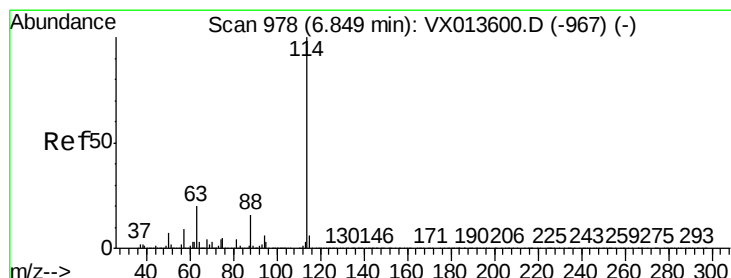
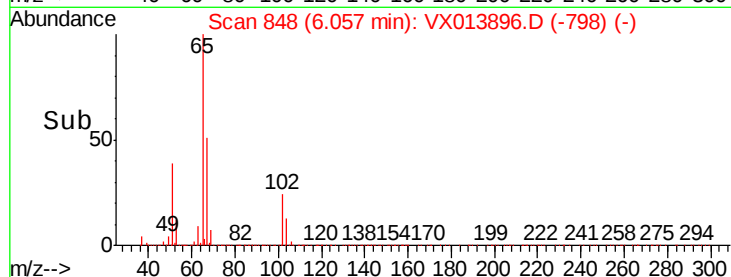
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

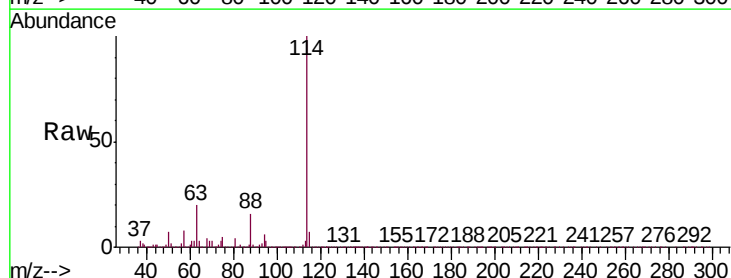
Tgt Ion: 114 Resp: 892499

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

88 16.1 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

6.86

500000

400000

300000

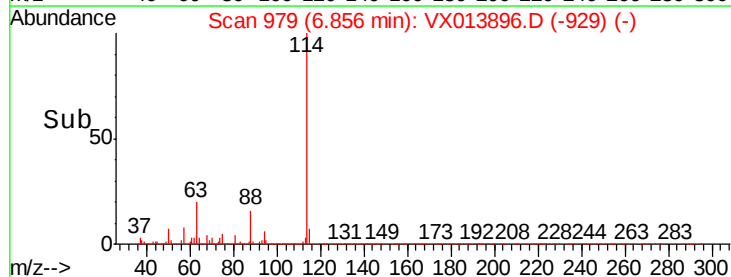
200000

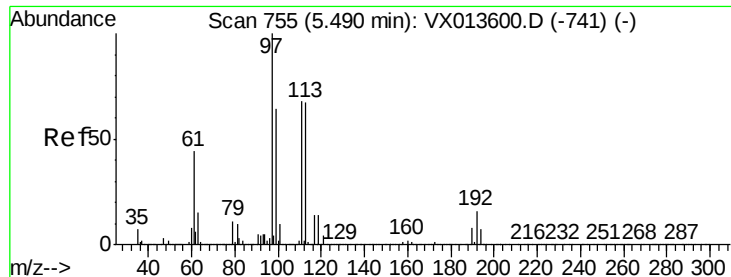
100000

0

Time-->

6.70 6.80 6.90 7.00

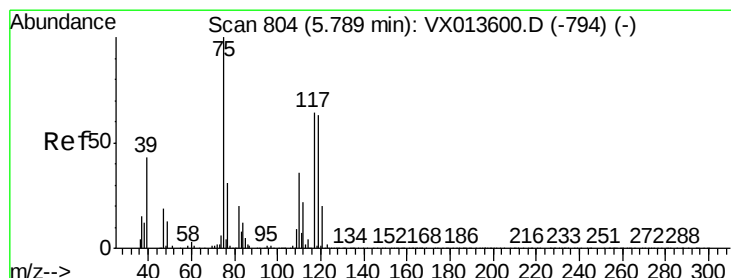
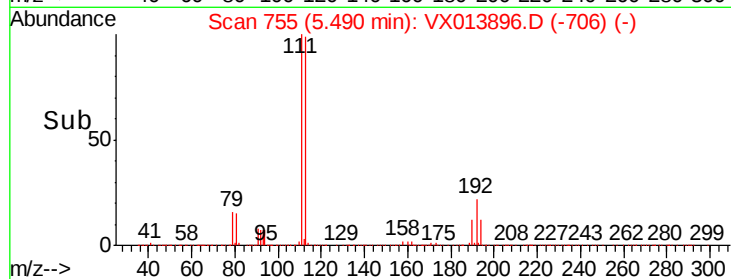
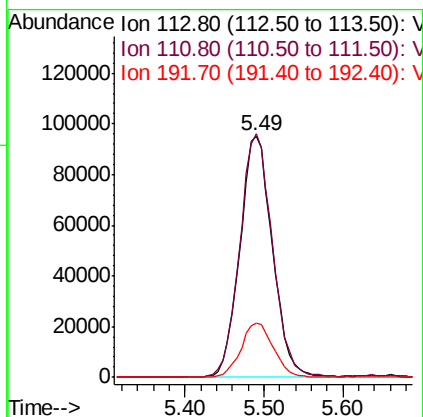
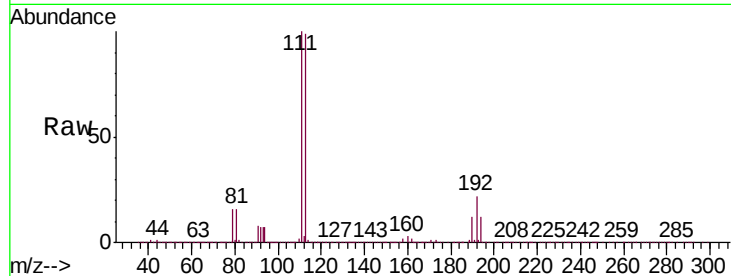




#35
Dibromofluoromethane
Concen: 49.326 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX013896.D
Acq: 10 Dec 2019 14:26

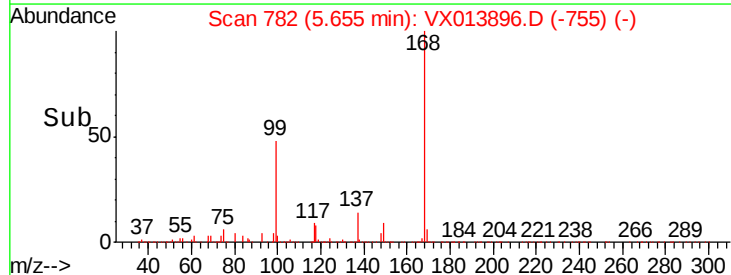
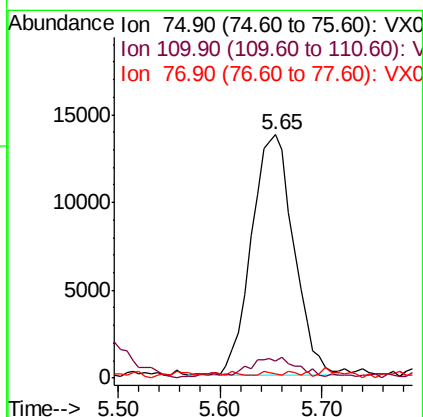
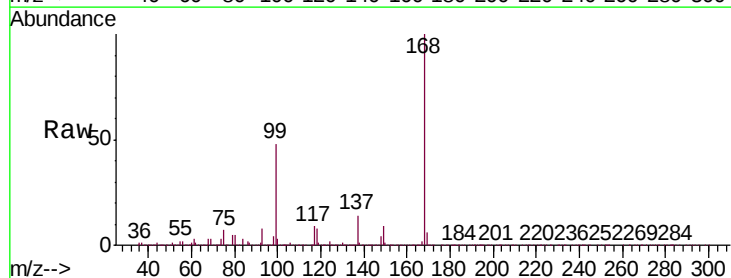
Instrument :
MSVOA_X
ClientSampleId :
S32-GAC2-IDW01

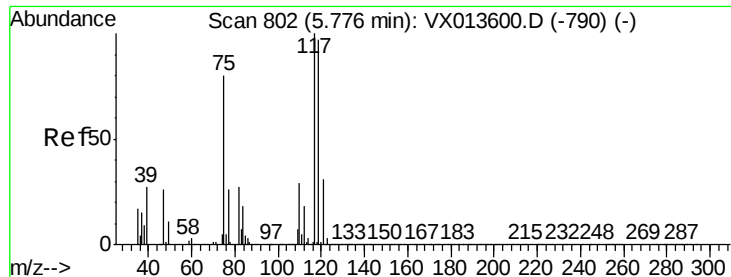
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.6	125.4
192	22.9	19.2	28.8



#36
1,1-Dichloropropene
Concen: 4.908 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.13 min
Lab File: VX013896.D
Acq: 10 Dec 2019 14:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.1	54.1#
77	0.6	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 7.041 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

S32-GAC2-IDW01

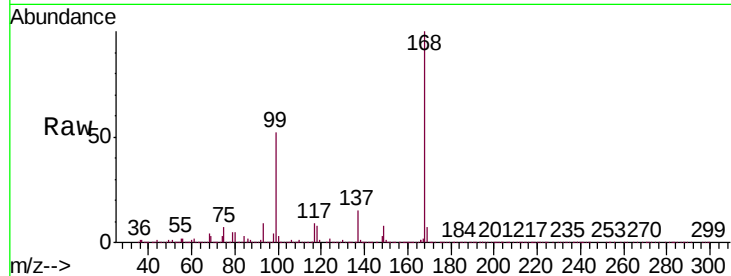
Tgt Ion: 117 Resp: 52601

Ion Ratio Lower Upper

117 100

119 4.8 77.5 116.3#

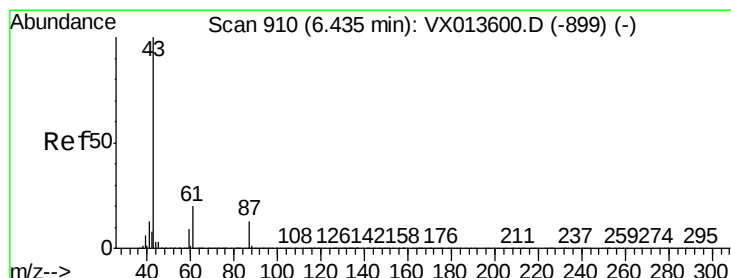
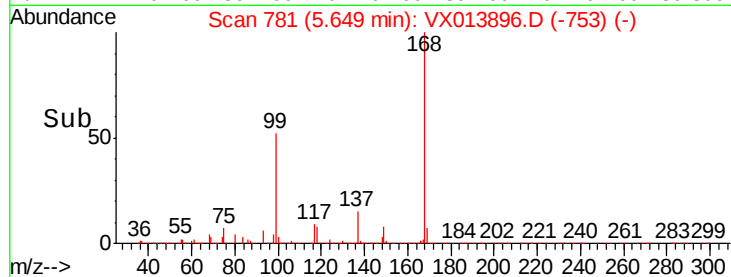
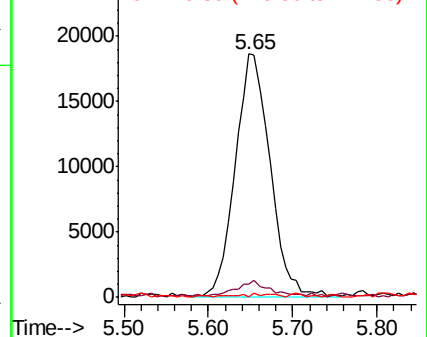
121 0.0 25.0 37.6#



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



#43

Isopropyl Acetate

Concen: 1.307 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

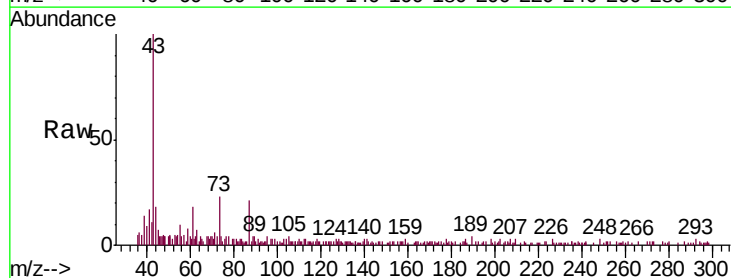
Tgt Ion: 43 Resp: 19552

Ion Ratio Lower Upper

43 100

61 17.8 16.3 24.5

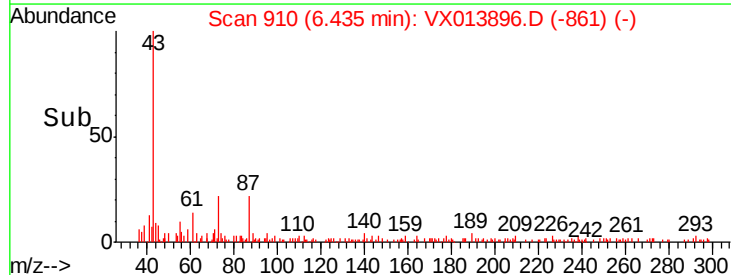
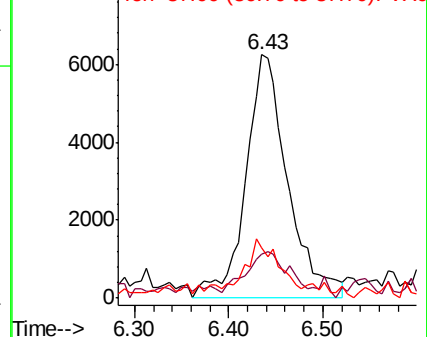
87 14.1 10.8 16.2

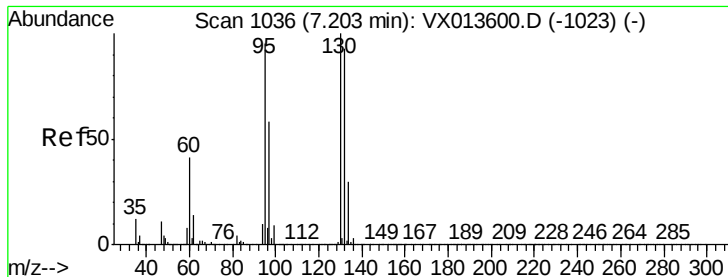


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: 0.554 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

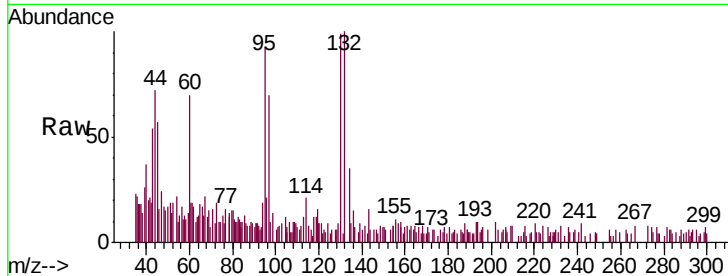
S32-GAC2-IDW01

Tgt Ion:130 Resp: 3754

Ion Ratio Lower Upper

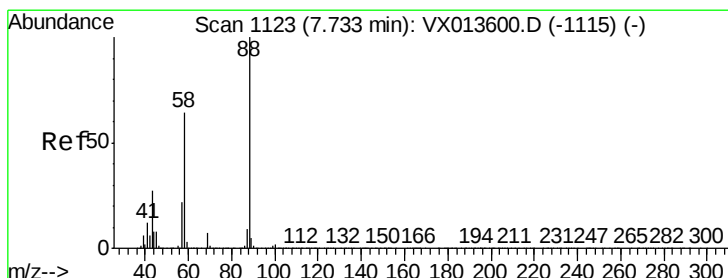
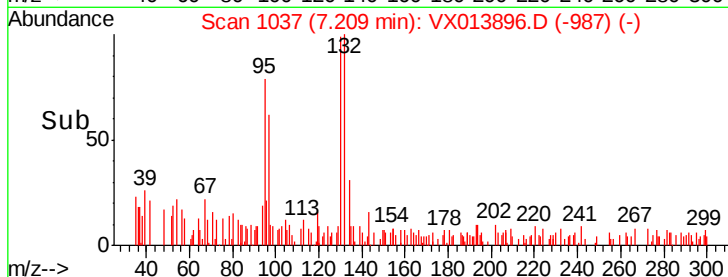
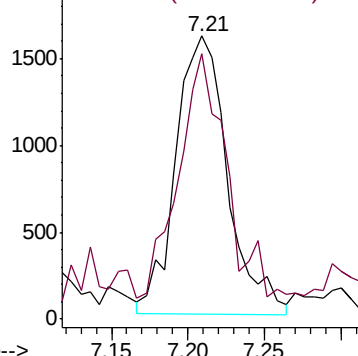
130 100

95 96.9 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: 5.137 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

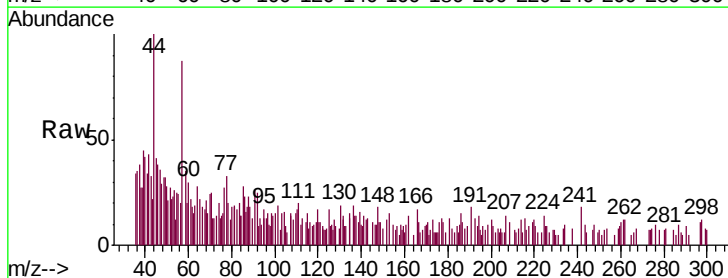
Tgt Ion: 88 Resp: 836

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

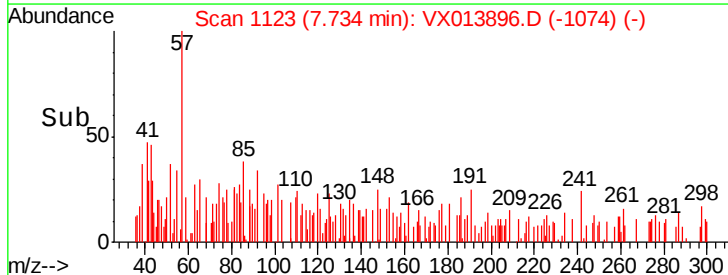
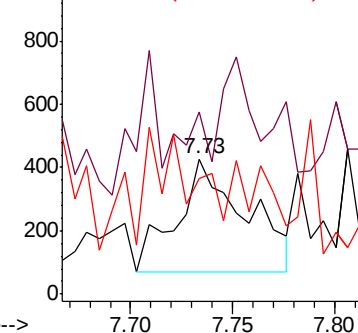
58 0.0 54.6 82.0#

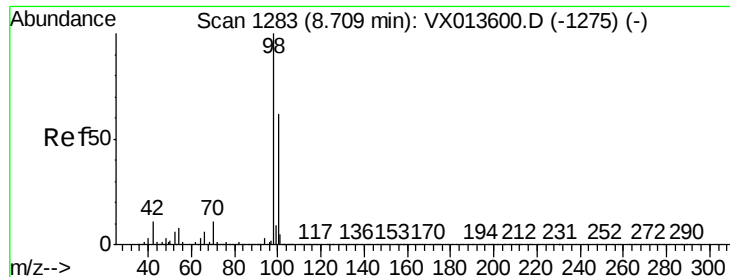


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.684 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

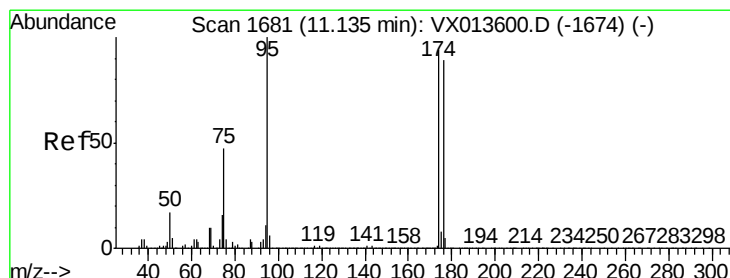
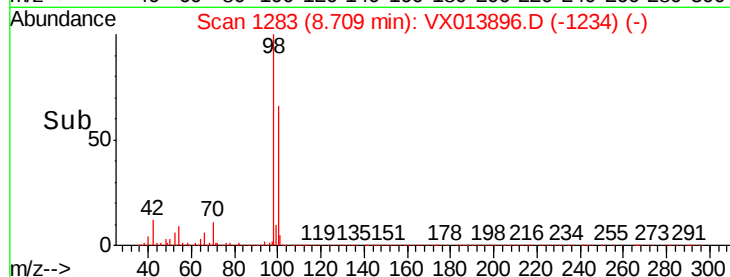
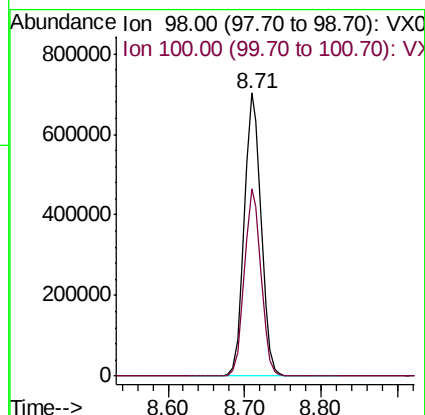
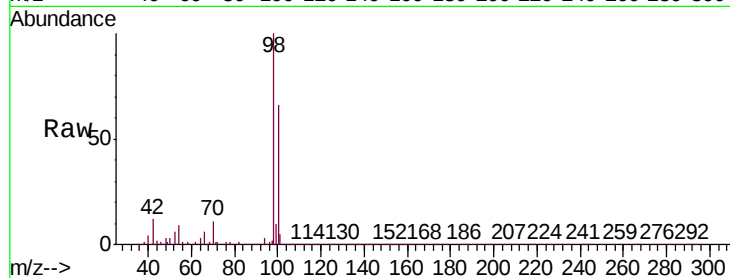
S32-GAC2-IDW01

Tgt Ion: 98 Resp: 1068046

Ion Ratio Lower Upper

98 100

100 65.5 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 46.309 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

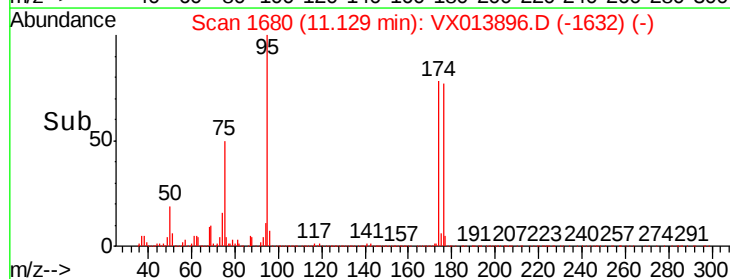
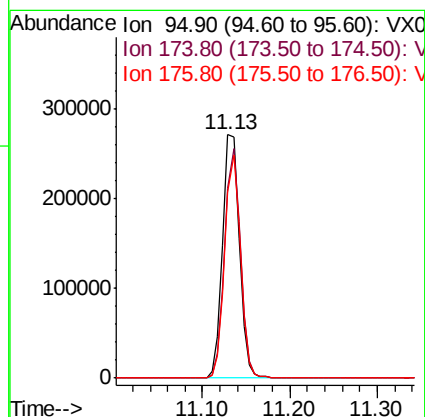
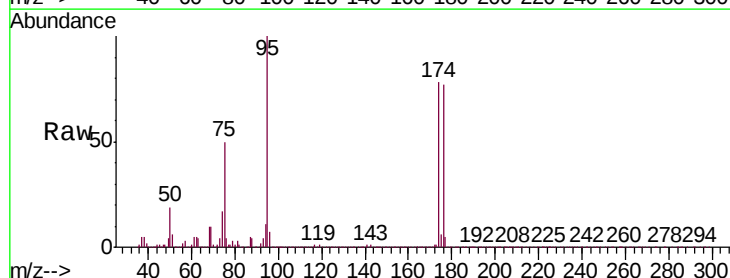
Tgt Ion: 95 Resp: 358982

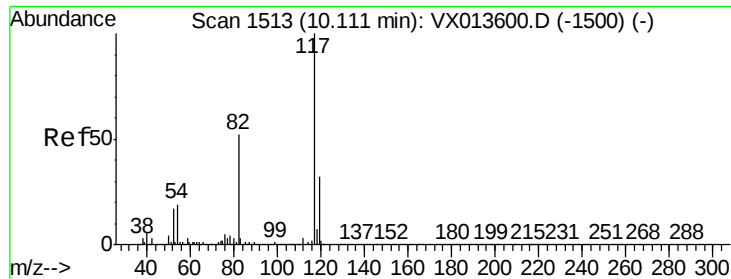
Ion Ratio Lower Upper

95 100

174 89.2 0.0 180.0

176 86.2 0.0 173.6

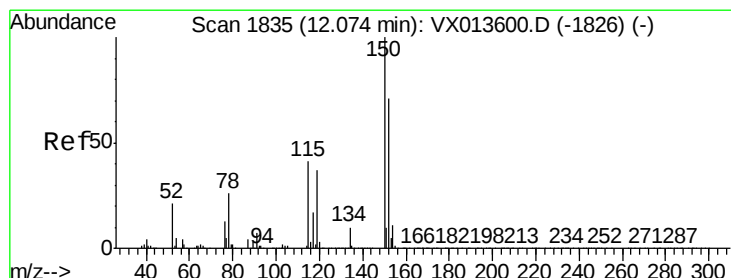
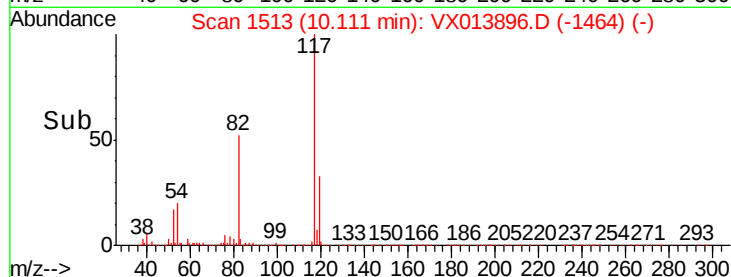
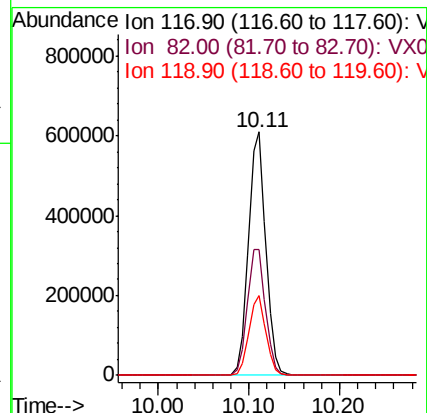
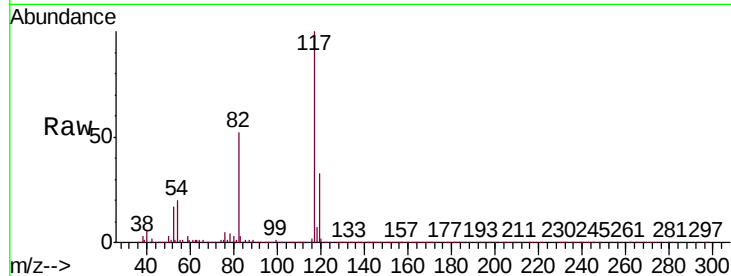




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013896.D
Acq: 10 Dec 2019 14:26

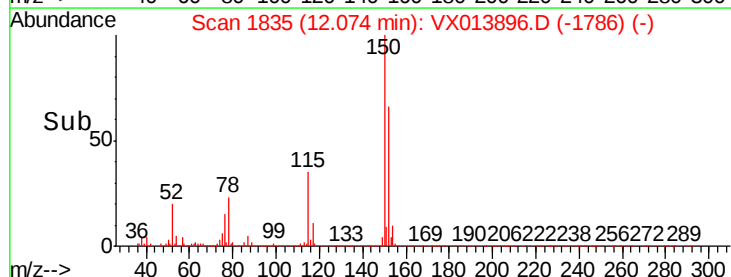
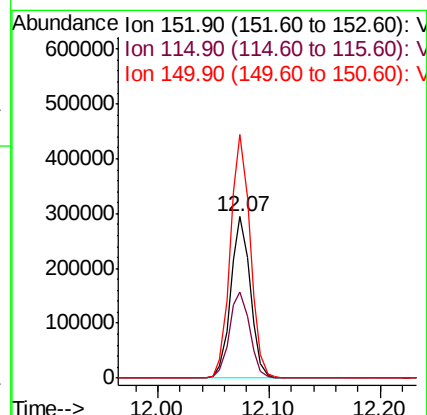
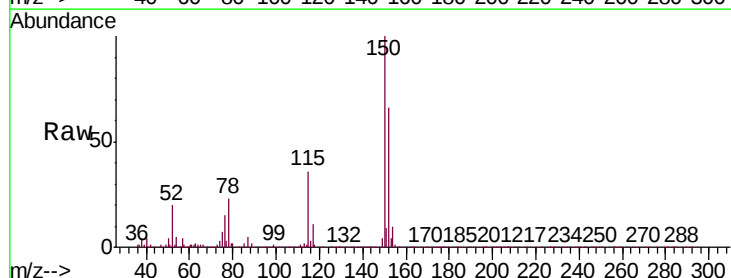
Instrument :
MSVOA_X
ClientSampleId :
S32-GAC2-IDW01

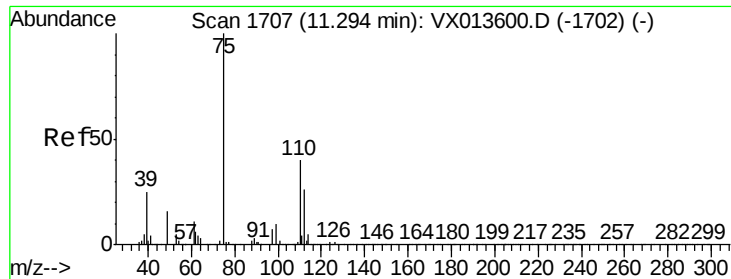
Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.8	41.8	62.8
119	32.7	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013896.D
Acq: 10 Dec 2019 14:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	38.4	115.1
150	153.6	0.0	346.8





#76

1,2,3-Trichloropropane

Concen: 21.867 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

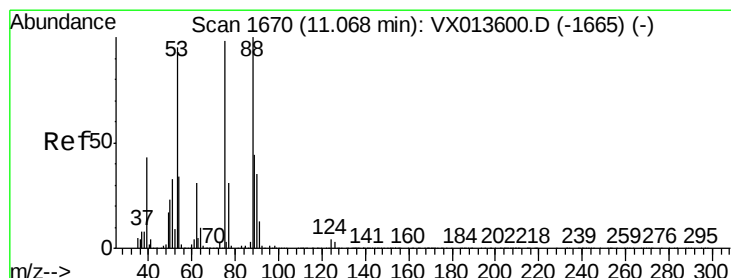
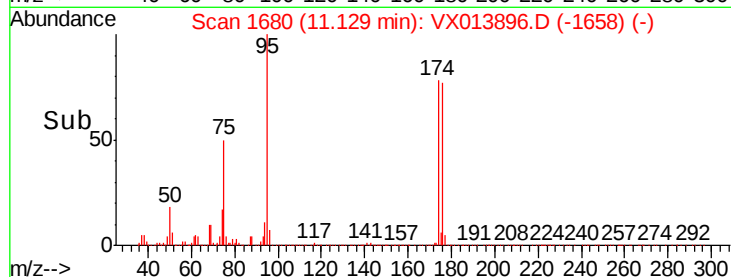
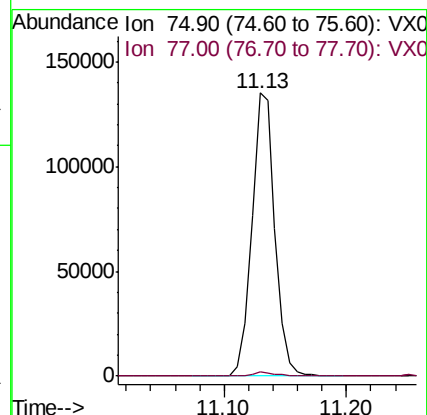
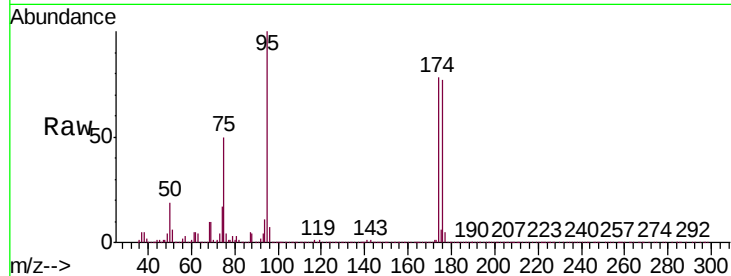
S32-GAC2-IDW01

Tgt Ion: 75 Resp: 175160

Ion Ratio Lower Upper

75 100

77 1.6 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.824 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013896.D

Acq: 10 Dec 2019 14:26

Tgt Ion: 75 Resp: 175160

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.2#

89 0.0 35.4 53.2#

