

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111318\
 Data File : VX005945.D
 Acq On : 13 Nov 2018 13:41
 Operator : JC/MD
 Sample : J5912-05DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS003MW326-181108DL

Quant Time: Nov 14 03:24:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 07 14:40:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	102492	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	142307	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	124271	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	61828	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	65003	55.17	ug/l	0.00
Spiked Amount			Recovery	=	110.34%	
35) Dibromofluoromethane	5.50	113	51986	53.71	ug/l	0.00
Spiked Amount			Recovery	=	107.42%	
50) Toluene-d8	8.72	98	172527	53.62	ug/l	0.00
Spiked Amount			Recovery	=	107.24%	
62) 4-Bromofluorobenzene	11.13	95	55413	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	

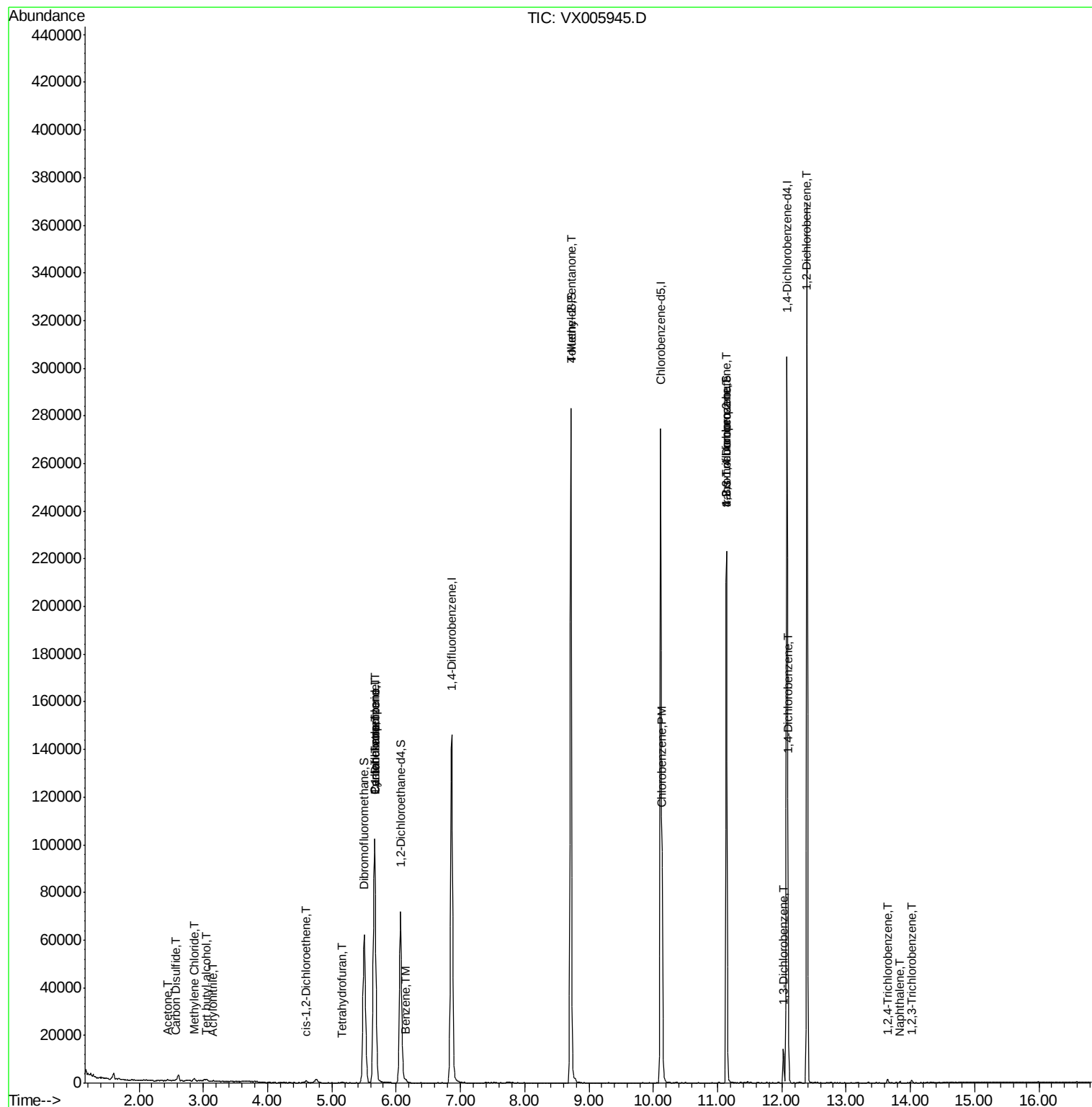
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.04	59	560	1.659	ug/l #	81
15) Acrylonitrile	3.14	53	186	0.266	ug/l #	75
16) Acetone	2.45	43	546	0.861	ug/l	90
17) Carbon Disulfide	2.57	76	614	0.227	ug/l #	52
18) Methyl Acetate	2.78	43	494	Below Cal	#	65
20) Methylene Chloride	2.86	84	292	0.280	ug/l	88
27) cis-1,2-Dichloroethene	4.59	96	432	0.409	ug/l	35
29) Tetrahydrofuran	5.16	42	182	0.284	ug/l #	36
31) Cyclohexane	5.67	56	1920	1.170	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	6932	5.053	ug/l #	49
38) Carbon Tetrachloride	5.67	117	9666	7.038	ug/l #	16
40) Benzene	6.15	78	1723	0.431	ug/l	97
51) 4-Methyl-2-Pentanone	8.71	43	798	0.484	ug/l #	1
65) Chlorobenzene	10.14	112	36442	14.638	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	28425	22.578	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	28425	71.961	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	129	Below Cal	#	31
87) 1,3-Dichlorobenzene	12.02	146	4509	2.331	ug/l	95
88) 1,4-Dichlorobenzene	12.10	146	16318	8.242	ug/l	96
91) 1,2-Dichlorobenzene	12.39	146	120380	62.132	ug/l	100
93) 1,2,4-Trichlorobenzene	13.65	180	529	0.388	ug/l	98
95) Naphthalene	13.83	128	737	1.339	ug/l #	86
96) 1,2,3-Trichlorobenzene	14.02	180	437	0.314	ug/l	94

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

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Quant Title : SW846 8260
QLast Update : Wed Nov 07 14:40:53 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

Instrument :

MSVOA_X

ClientSampleId :

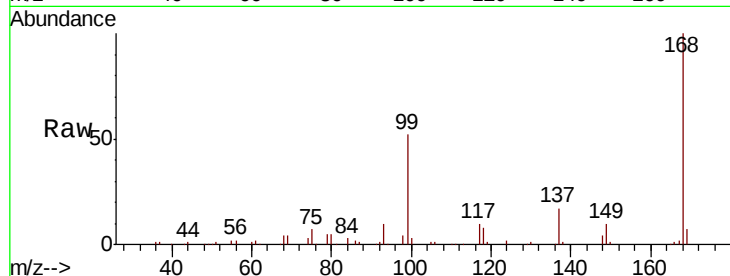
SS003MW326-181108DL

Tot Ion:168 Resp: 102492

Ion Ratio Lower Upper

168 100

99 52.4 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

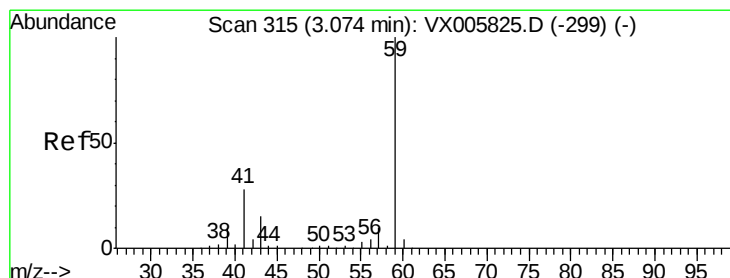
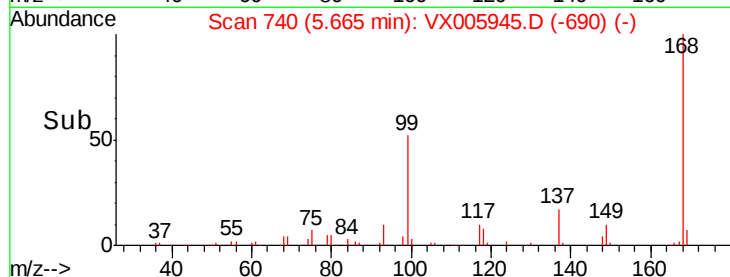
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 1.659 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.03 min

Lab File: VX005945.D

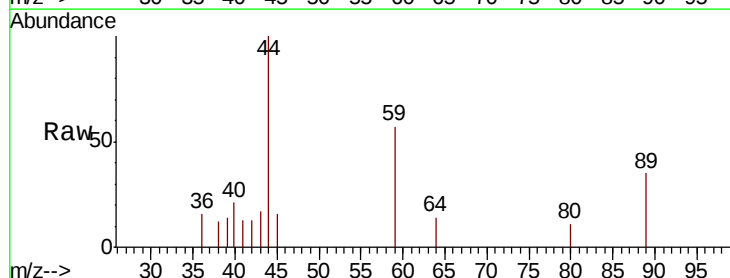
Acq: 13 Nov 2018 13:41

Tgt Ion: 59 Resp: 560

Ion Ratio Lower Upper

59 100

57 3.4 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.04

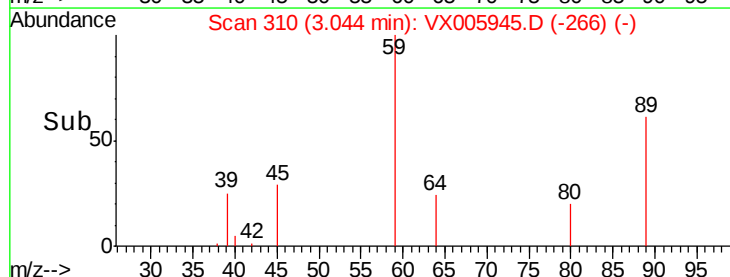
300

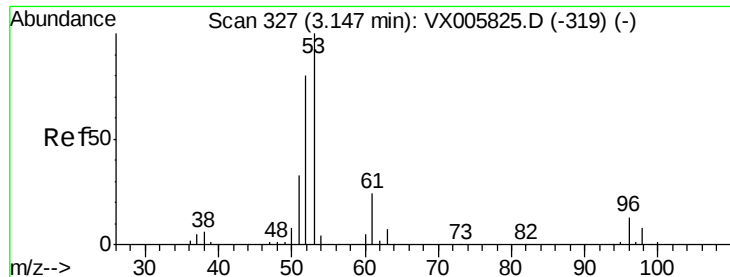
200

100

0

Time--> 3.05 3.10





#15

Acrylonitrile

Concen: 0.266 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

Instrument :

MSVOA_X

ClientSampleId :

SS003MW326-181108DL

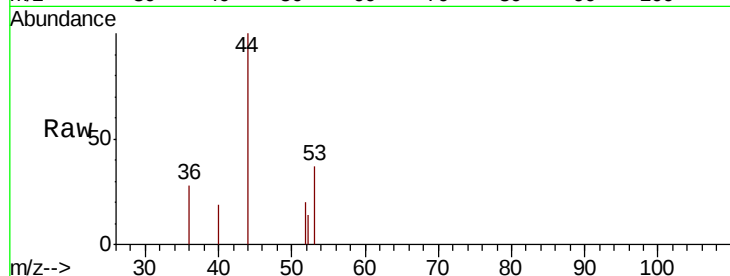
Tot Ion: 53 Resp: 186

Ion Ratio Lower Upper

53 100

52 91.4 66.6 99.8

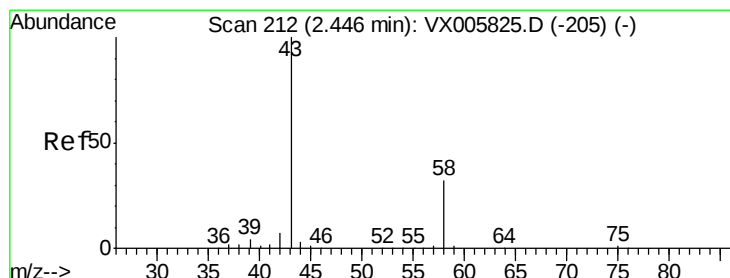
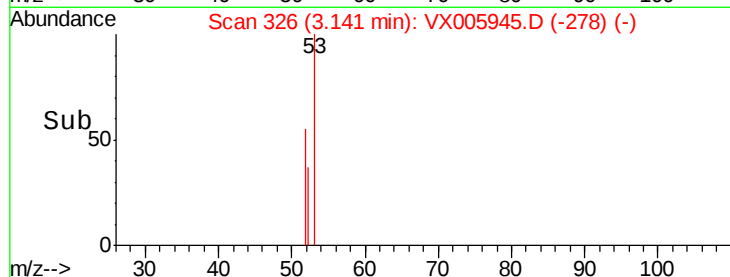
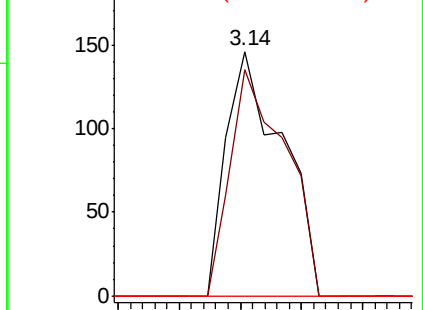
51 0.0 28.4 42.6#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.861 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005945.D

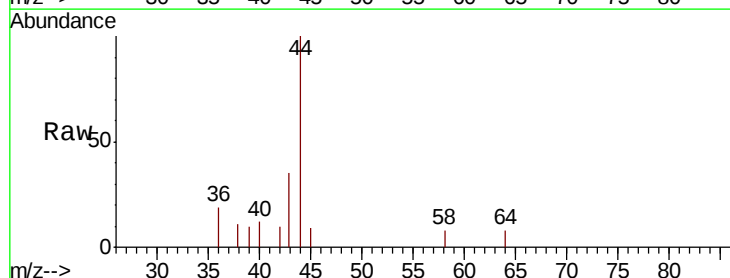
Acq: 13 Nov 2018 13:41

Tgt Ion: 43 Resp: 546

Ion Ratio Lower Upper

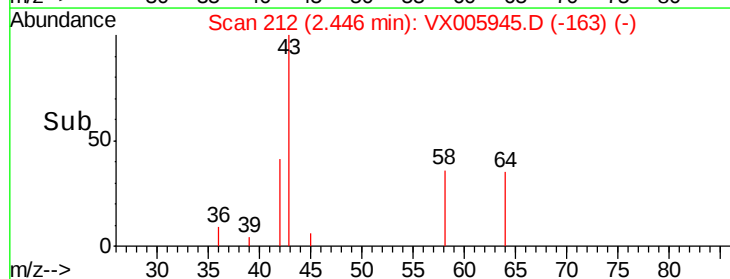
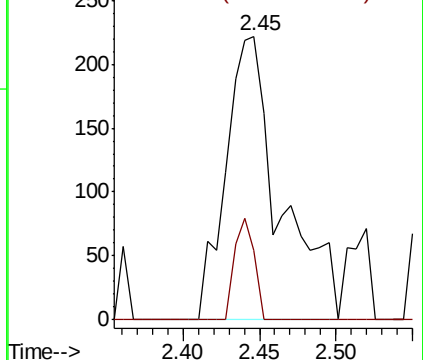
43 100

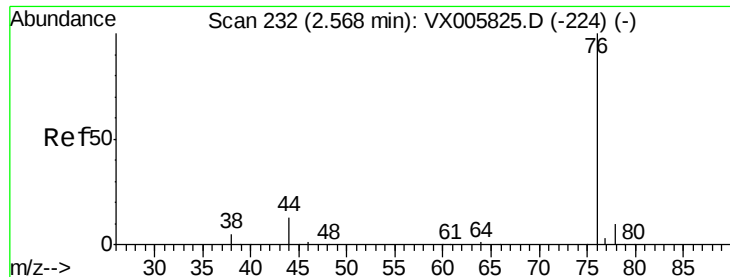
58 24.3 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.227 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

Instrument :

MSVOA_X

ClientSampleId :

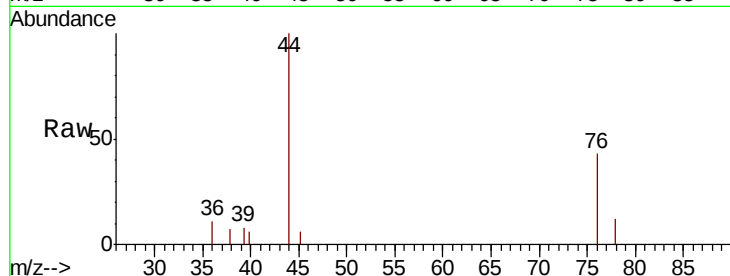
SS003MW326-181108DL

Tot Ion: 76 Resp: 614

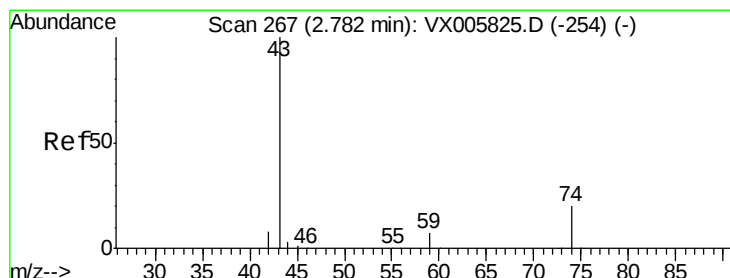
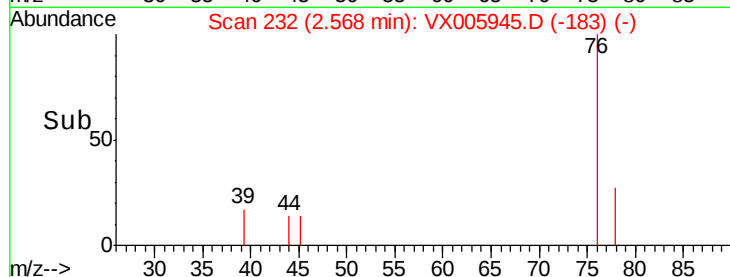
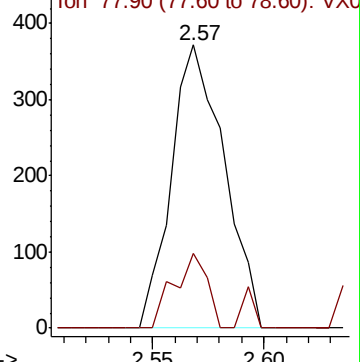
Ion Ratio Lower Upper

76 100

78 26.6 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005945.D

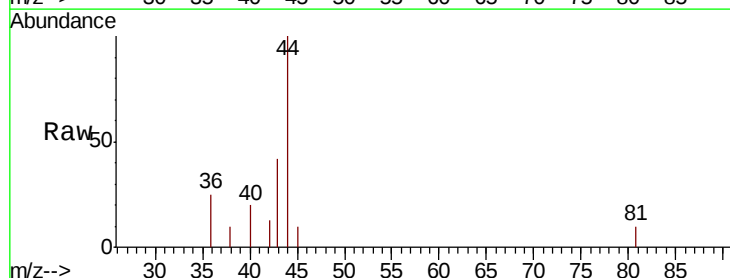
Acq: 13 Nov 2018 13:41

Tgt Ion: 43 Resp: 494

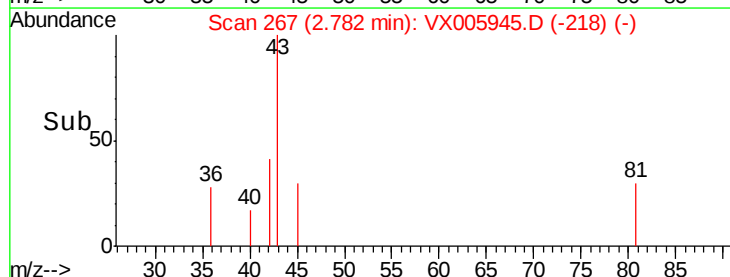
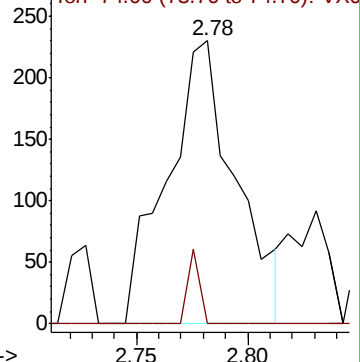
Ion Ratio Lower Upper

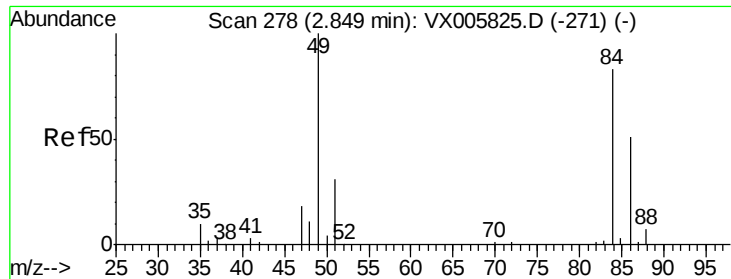
43 100

74 4.5 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

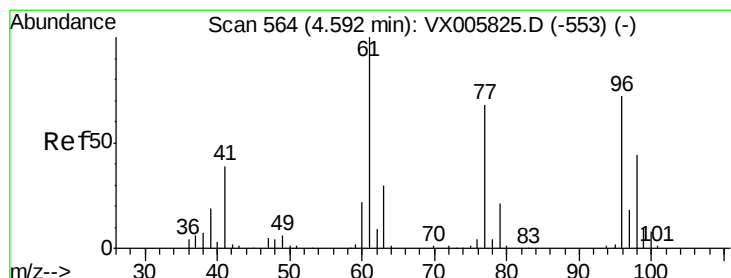
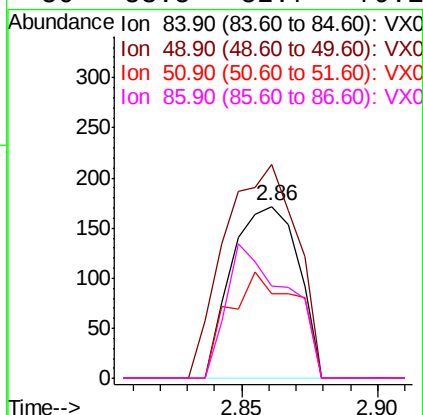
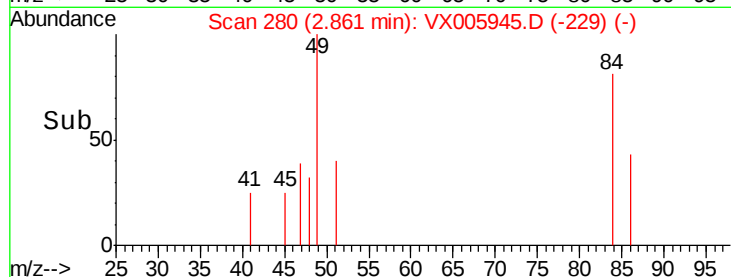
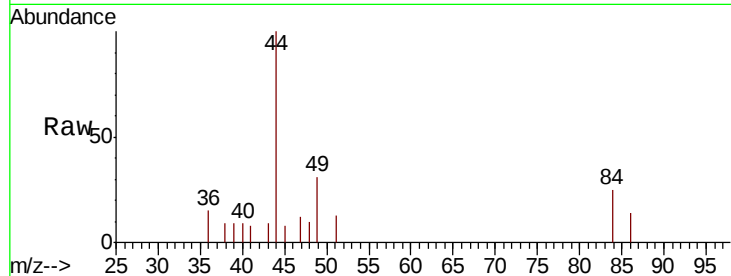




#20
Methylene Chloride
Concen: 0.280 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005945.D
Acq: 13 Nov 2018 13:41

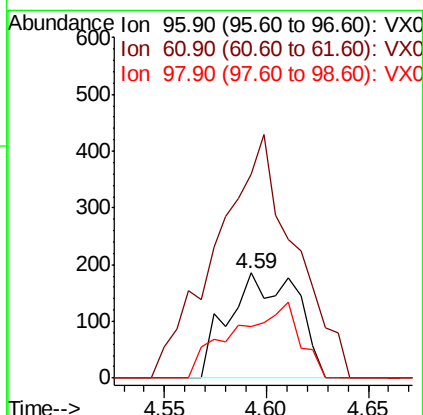
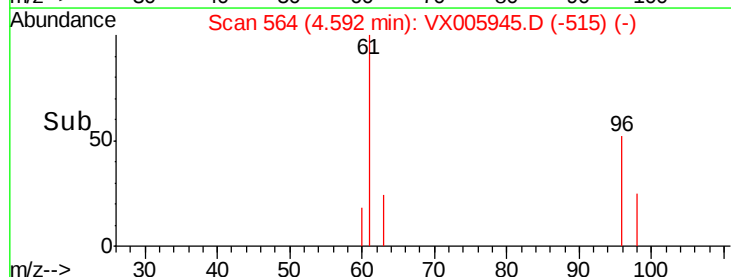
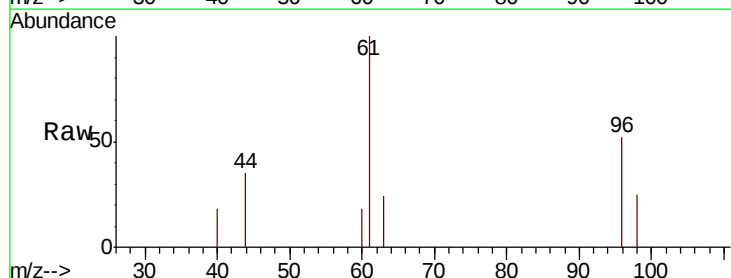
Instrument :
MSVOA_X
ClientSampleId :
SS003MW326-181108DL

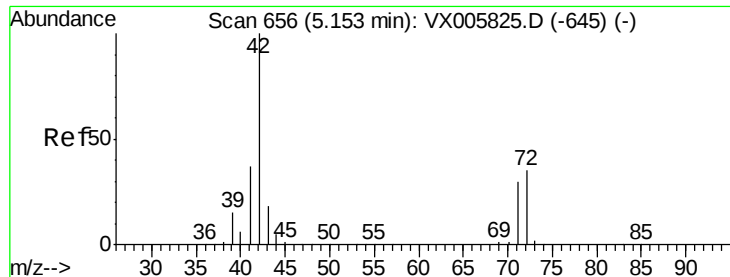
Tot Ion: 84 Resp: 292
Ion Ratio Lower Upper
84 100
49 123.8 109.5 164.3
51 49.4 33.3 49.9
86 53.5 52.7 79.1



#27
cis-1,2-Dichloroethene
Concen: 0.409 ug/l
RT: 4.59 min Scan# 564
Delta R.T. 0.00 min
Lab File: VX005945.D
Acq: 13 Nov 2018 13:41

Tgt Ion: 96 Resp: 432
Ion Ratio Lower Upper
96 100
61 266.0 0.0 304.6
98 69.2 0.0 127.4





#29

Tetrahydrofuran

Concen: 0.284 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

Instrument :

MSVOA_X

ClientSampleId :

SS003MW326-181108DL

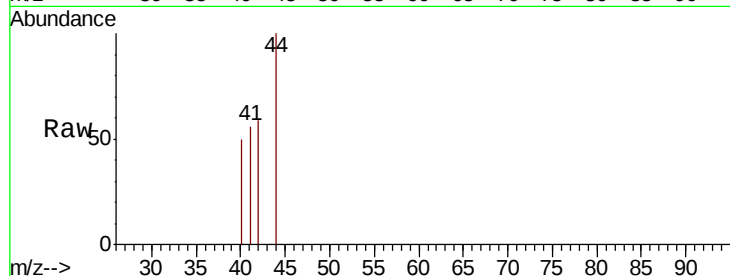
Tot Ion: 42 Resp: 182

Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

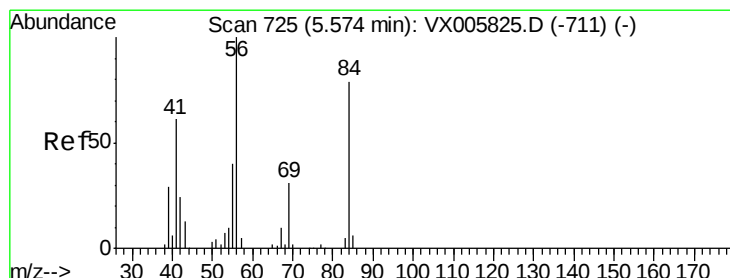
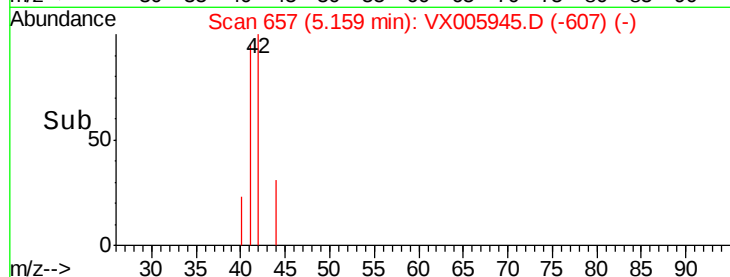
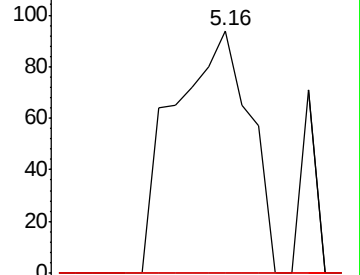
71 0.0 29.8 44.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.170 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

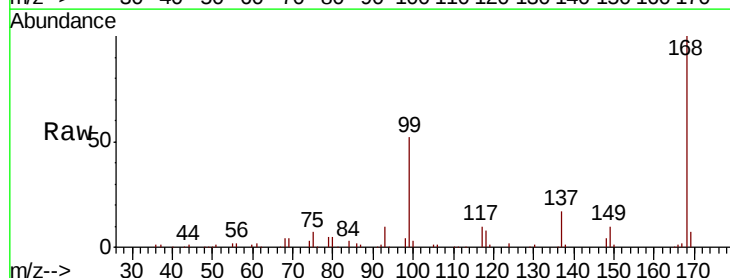
Tgt Ion: 56 Resp: 1920

Ion Ratio Lower Upper

56 100

69 176.4 22.6 34.0#

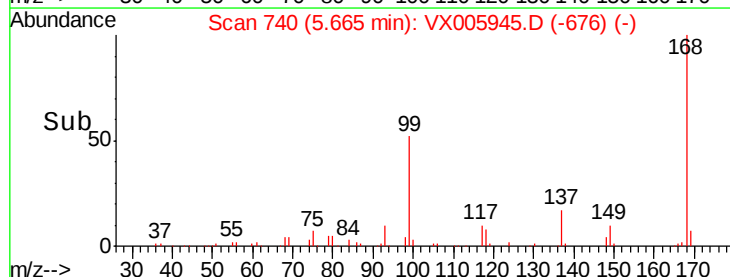
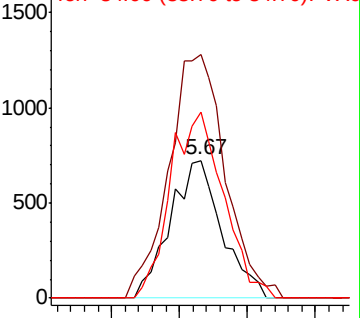
84 134.9 62.7 94.1#

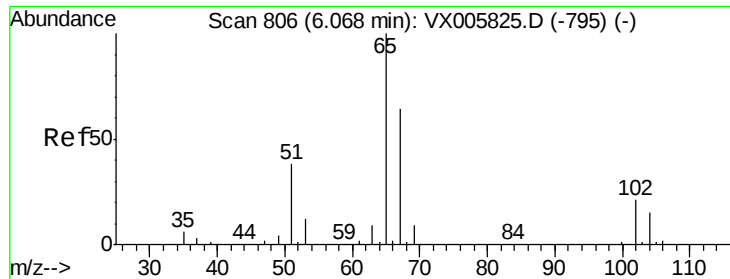


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

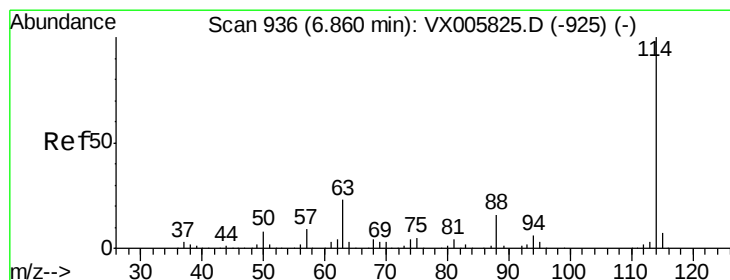
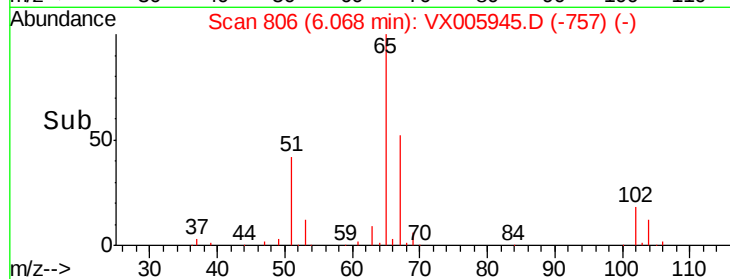
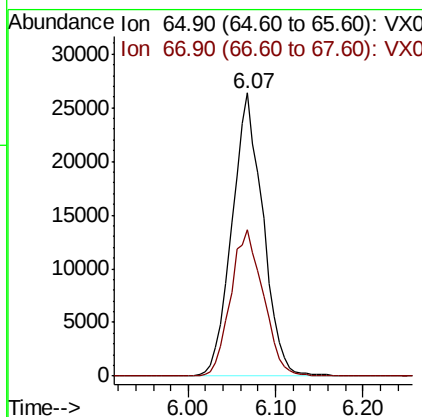
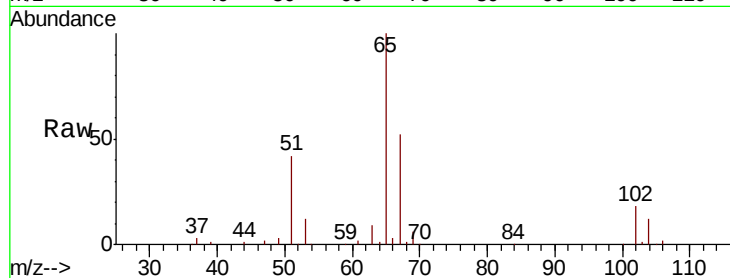




#33
 1,2-Dichloroethane-d4
 Concen: 55.168 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX005945.D
 Acq: 13 Nov 2018 13:41

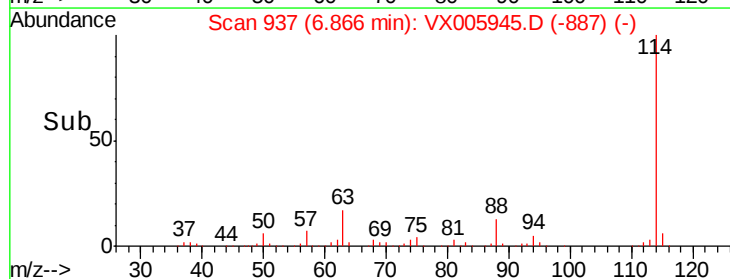
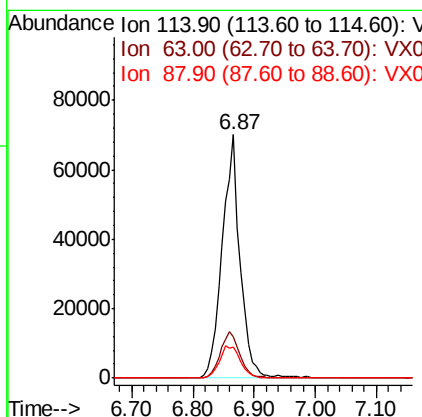
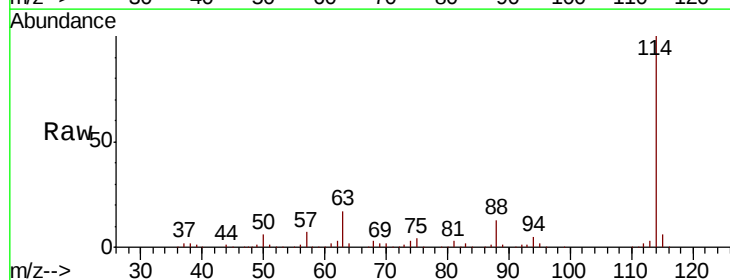
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 SS003MW326-181108DL

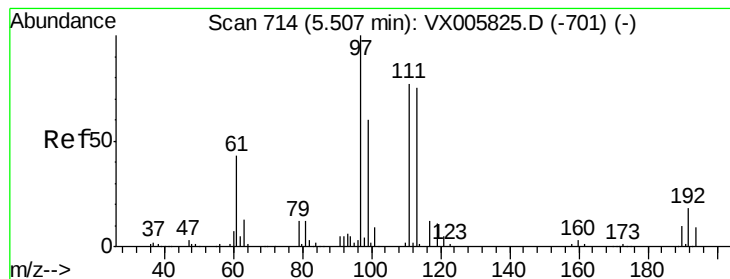
Tot Ion: 65 Resp: 65003
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX005945.D
 Acq: 13 Nov 2018 13:41

Tgt Ion: 114 Resp: 142307
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 42.8
 88 12.9 0.0 31.2





#35

Dibromofluoromethane

Concen: 53.710 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

Instrument :

MSVOA_X

ClientSampleId :

SS003MW326-181108DL

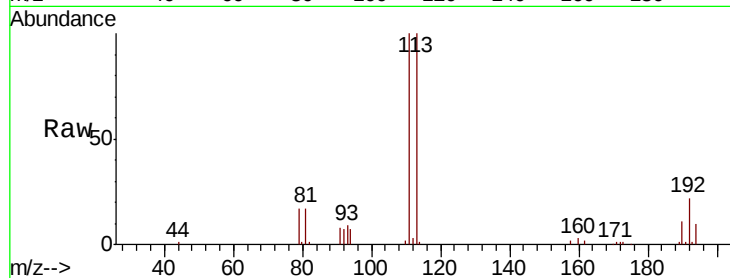
Tot Ion:113 Resp: 51986

Ion Ratio Lower Upper

113 100

111 104.3 82.3 123.5

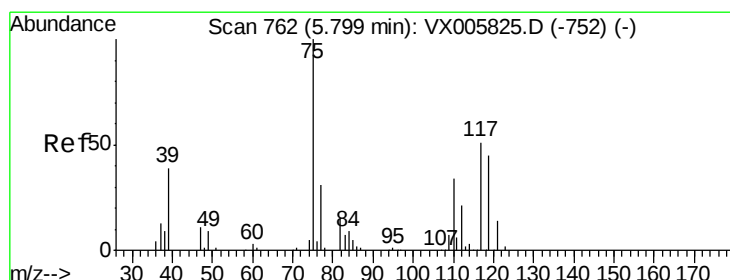
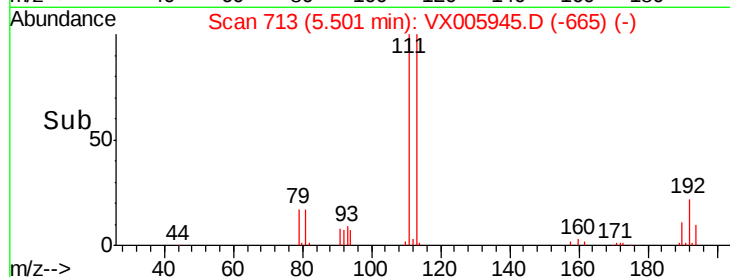
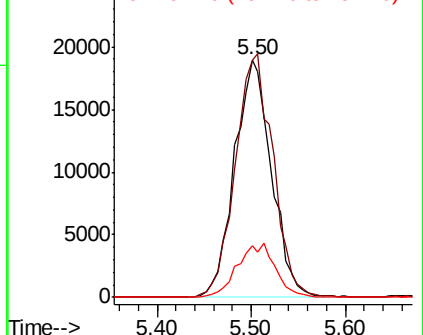
192 23.3 17.9 26.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.053 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

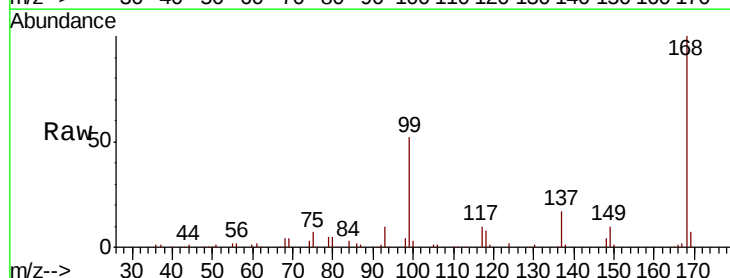
Tgt Ion: 75 Resp: 6932

Ion Ratio Lower Upper

75 100

110 8.3 17.4 52.2#

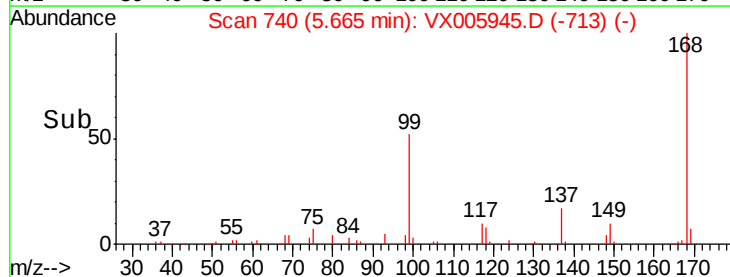
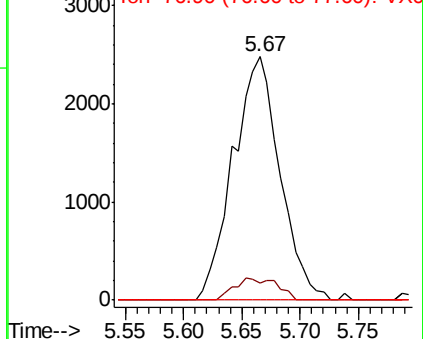
77 0.0 25.8 38.6#

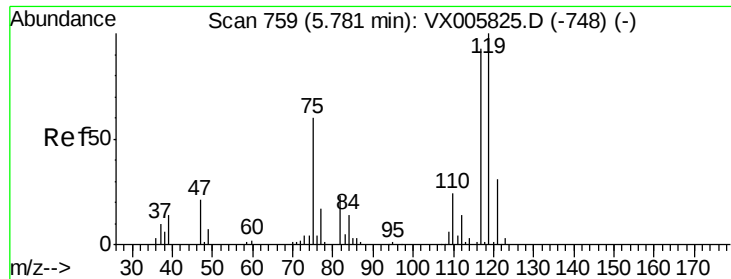


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.038 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

Instrument :

MSVOA_X

ClientSampleId :

SS003MW326-181108DL

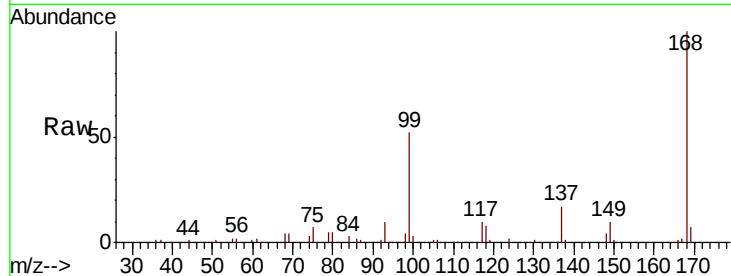
Tot Ion:117 Resp: 9666

Ion Ratio Lower Upper

117 100

119 5.8 78.1 117.1#

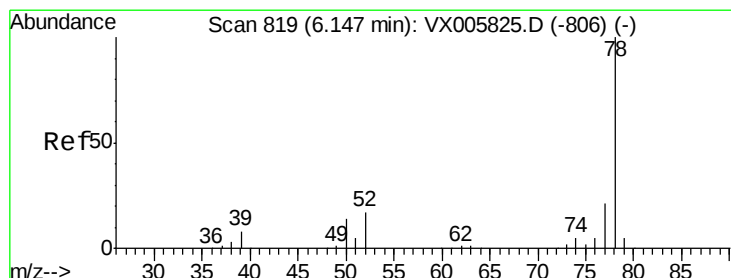
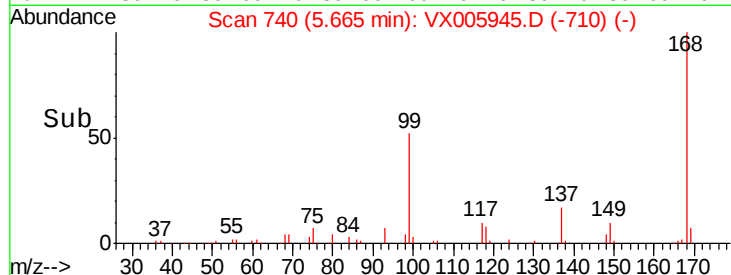
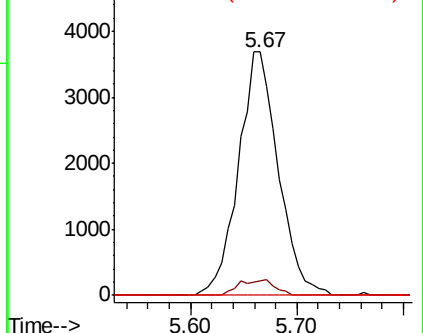
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 0.431 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.00 min

Lab File: VX005945.D

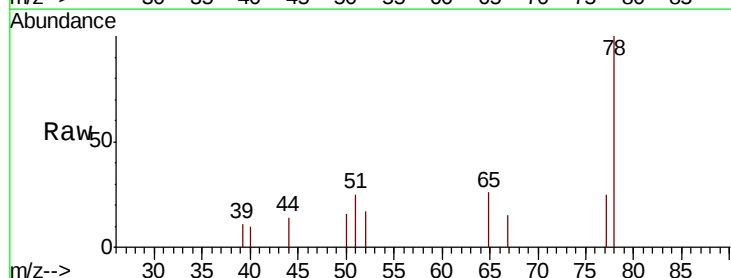
Acq: 13 Nov 2018 13:41

Tgt Ion: 78 Resp: 1723

Ion Ratio Lower Upper

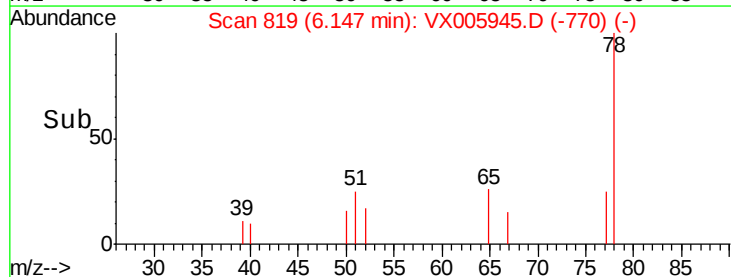
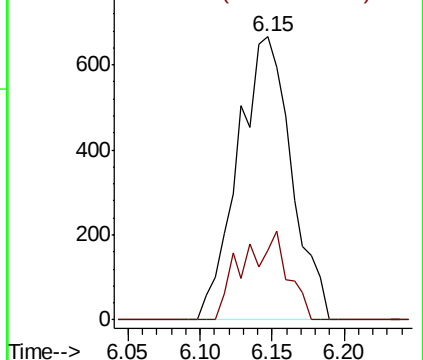
78 100

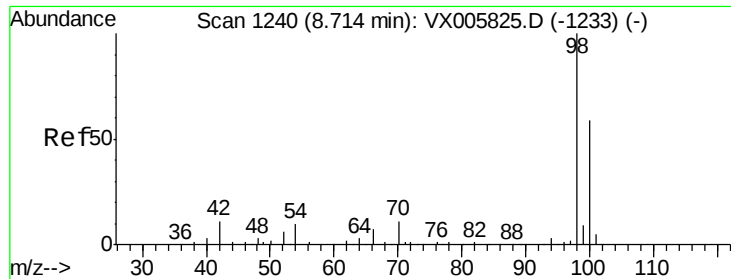
77 24.6 18.4 27.6



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#50

Toluene-d8

Concen: 53.615 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

Instrument :

MSVOA_X

ClientSampleId :

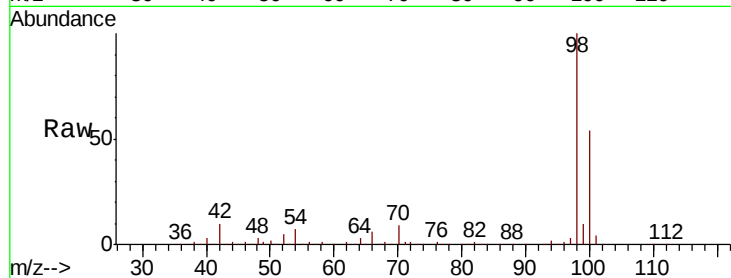
SS003MW326-181108DL

Tot Ion: 98 Resp: 172527

Ion Ratio Lower Upper

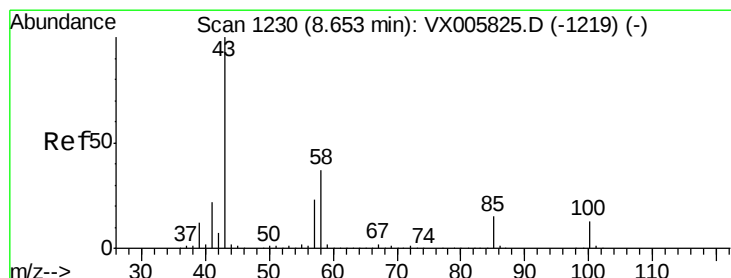
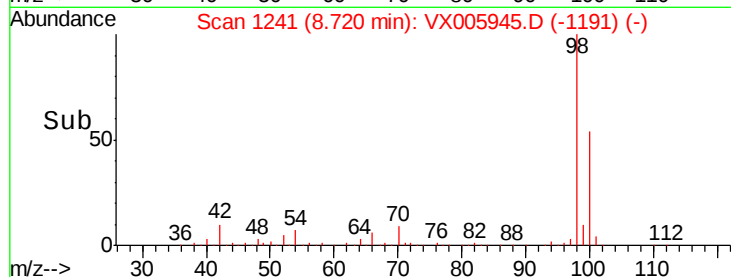
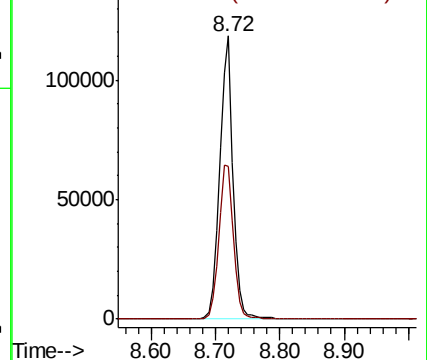
98 100

100 60.2 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.484 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.06 min

Lab File: VX005945.D

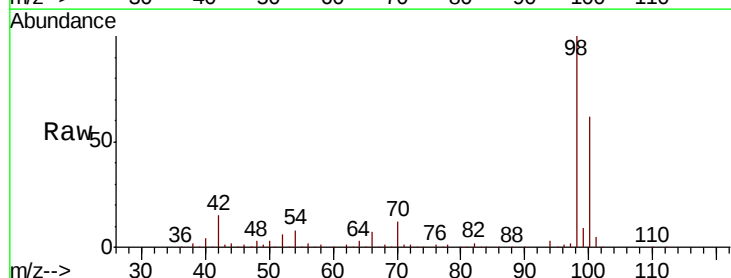
Acq: 13 Nov 2018 13:41

Tgt Ion: 43 Resp: 798

Ion Ratio Lower Upper

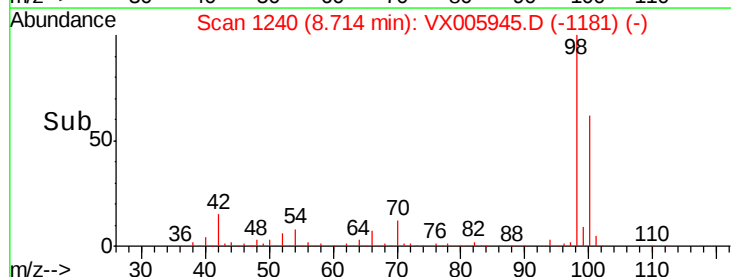
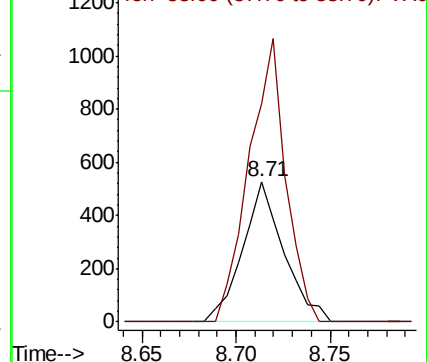
43 100

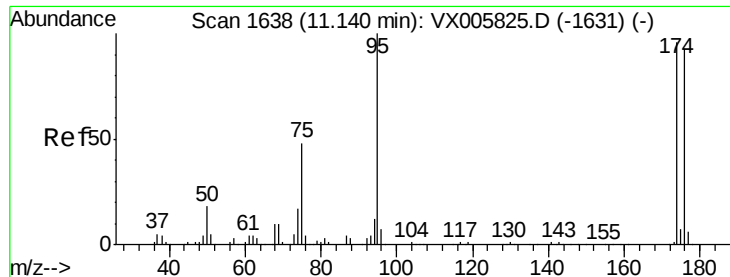
58 180.2 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 47.896 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

Instrument :

MSVOA_X

ClientSampleId :

SS003MW326-181108DL

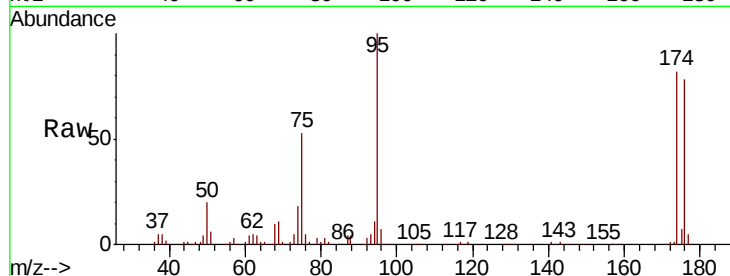
Tot Ion: 95 Resp: 55413

Ion Ratio Lower Upper

95 100

174 93.7 0.0 184.4

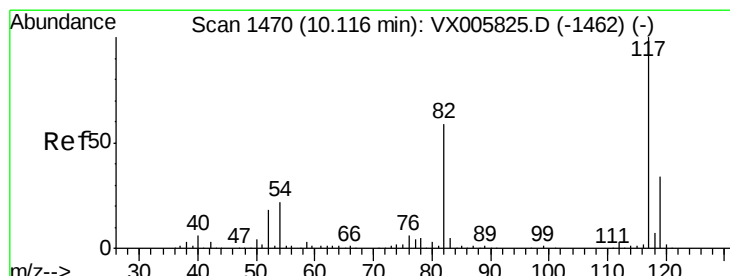
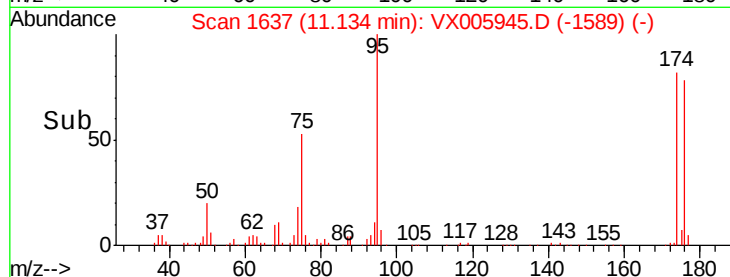
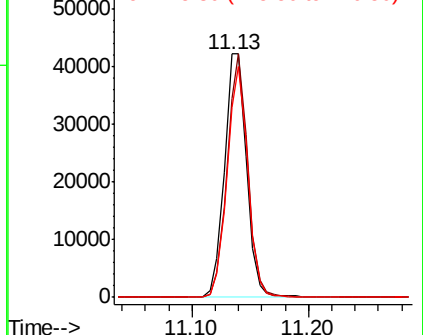
176 89.1 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

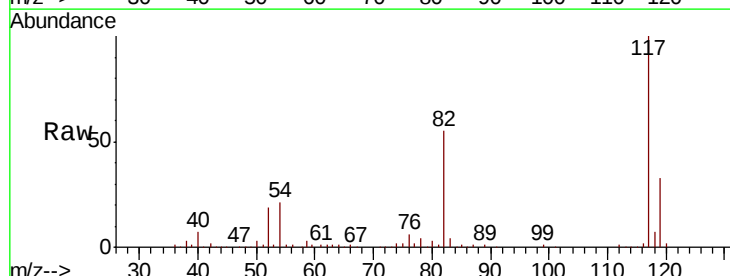
Tgt Ion: 117 Resp: 124271

Ion Ratio Lower Upper

117 100

82 54.6 44.1 66.1

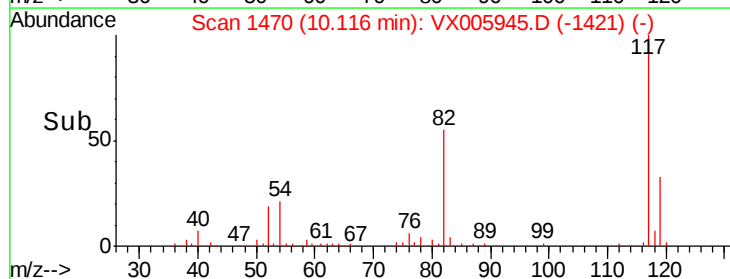
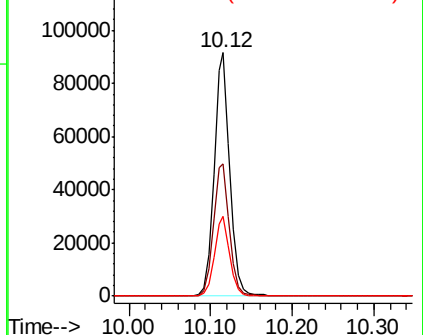
119 32.7 26.2 39.2

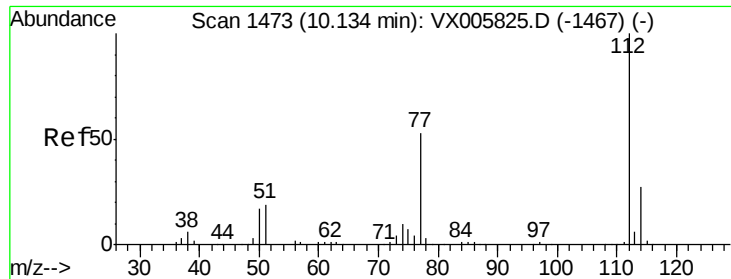


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

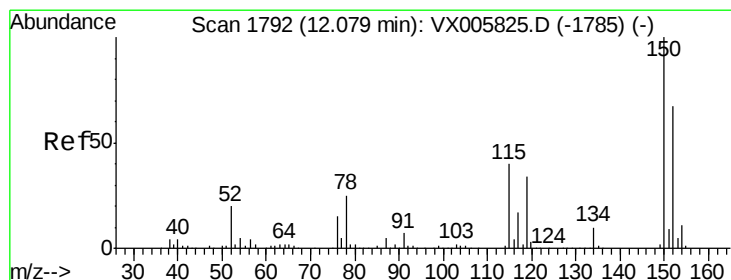
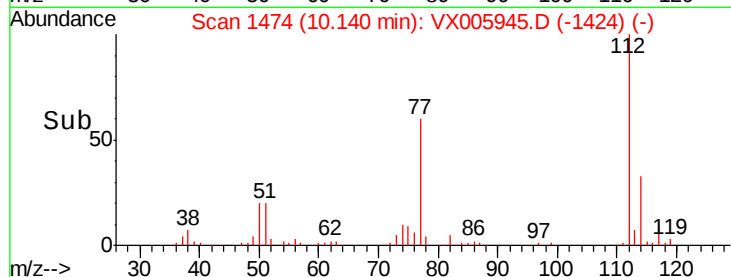
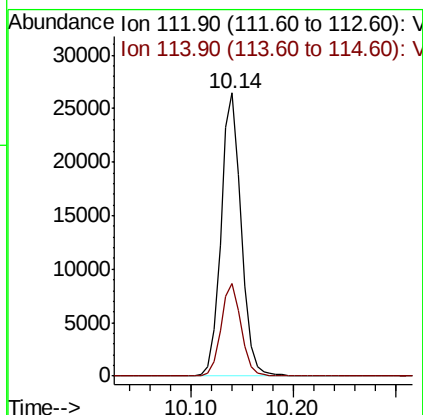
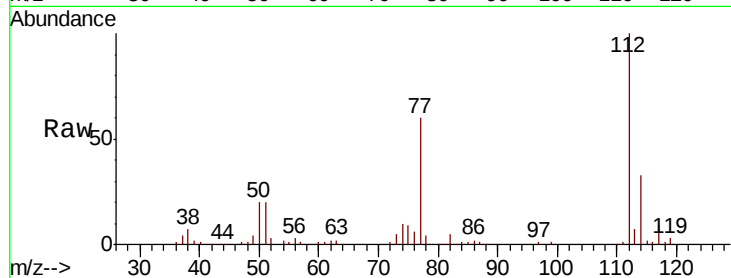




#65
Chlorobenzene
Concen: 14.638 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX005945.D
Acq: 13 Nov 2018 13:41

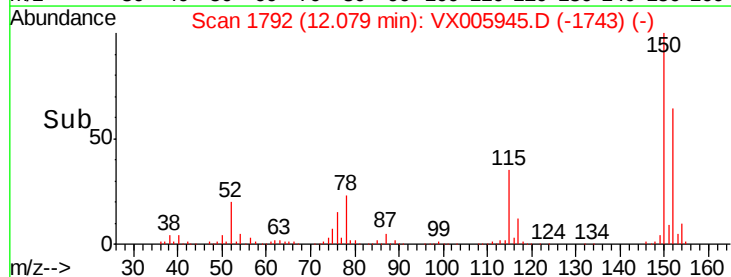
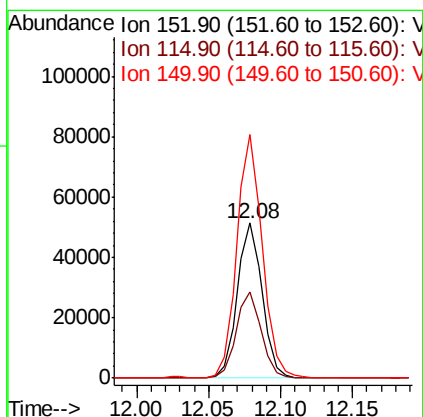
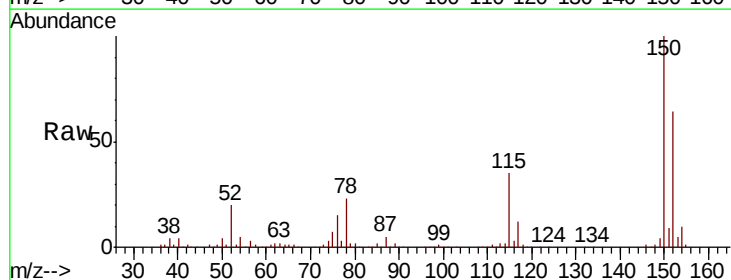
Instrument :
MSVOA_X
ClientSampleId :
SS003MW326-181108DL

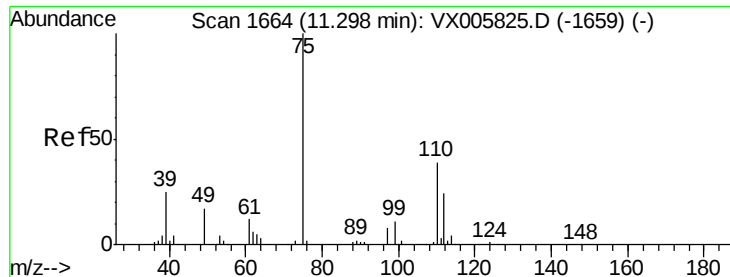
Tot Ion:112 Resp: 36442
Ion Ratio Lower Upper
112 100
114 32.6 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005945.D
Acq: 13 Nov 2018 13:41

Tgt Ion:152 Resp: 61828
Ion Ratio Lower Upper
152 100
115 55.9 39.4 118.1
150 160.6 0.0 346.4





#76

1,2,3-Trichloropropane

Concen: 22.578 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

Instrument :

MSVOA_X

ClientSampleId :

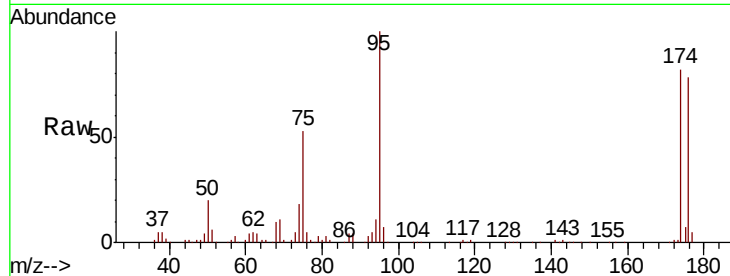
SS003MW326-181108DL

Tot Ion: 75 Resp: 28425

Ion Ratio Lower Upper

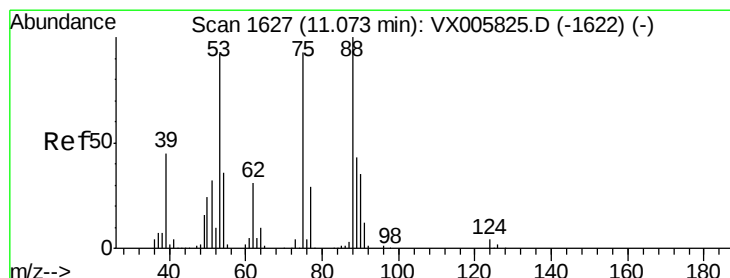
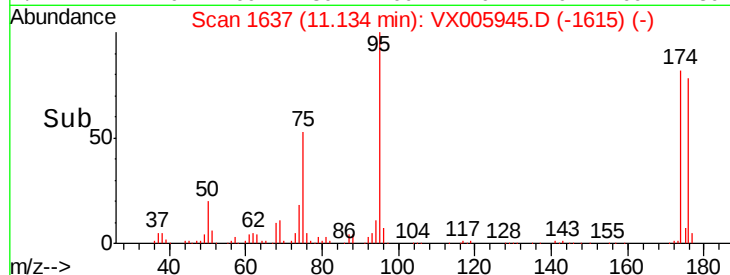
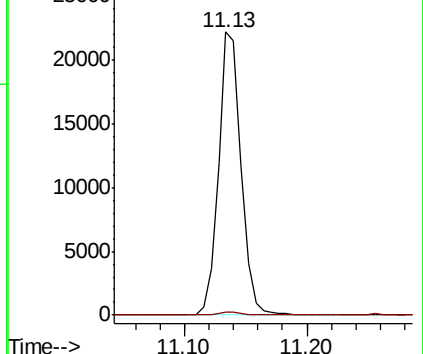
75 100

77 1.0 20.5 61.6#



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: 71.961 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

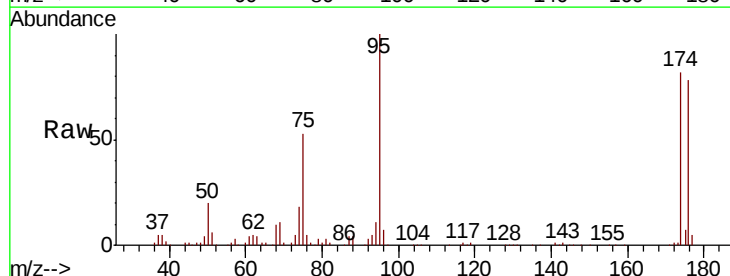
Tgt Ion: 75 Resp: 28425

Ion Ratio Lower Upper

75 100

53 0.0 80.2 120.2#

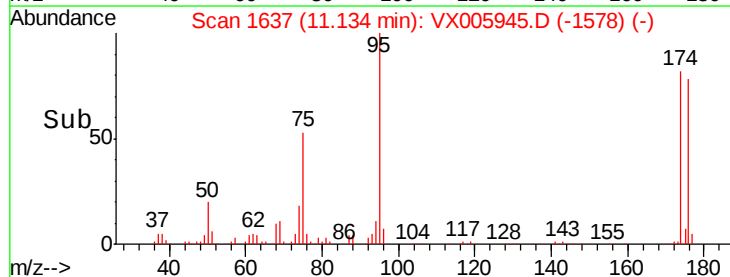
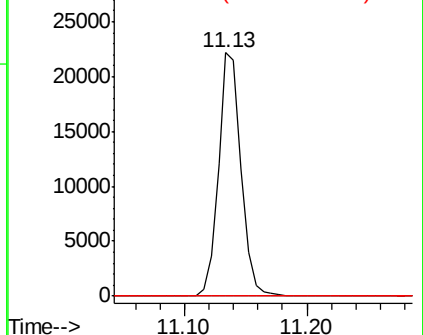
89 0.0 39.8 59.8#

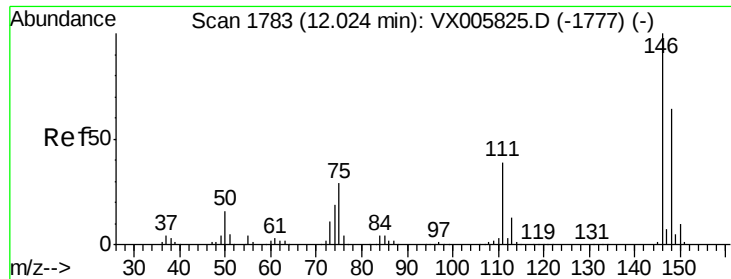


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

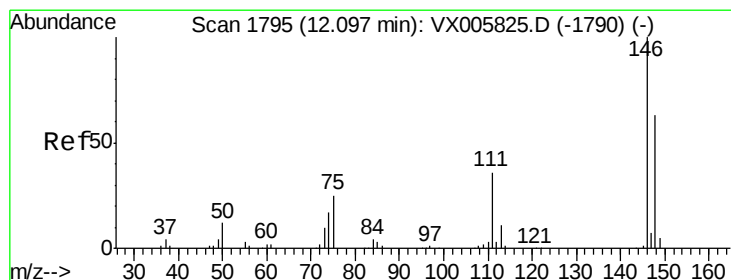
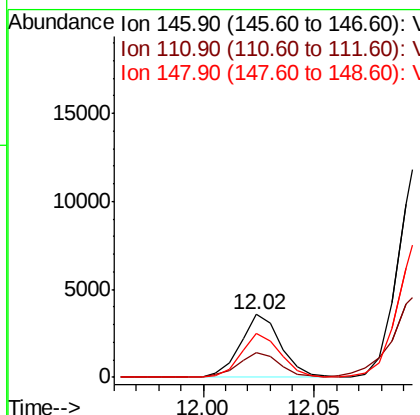
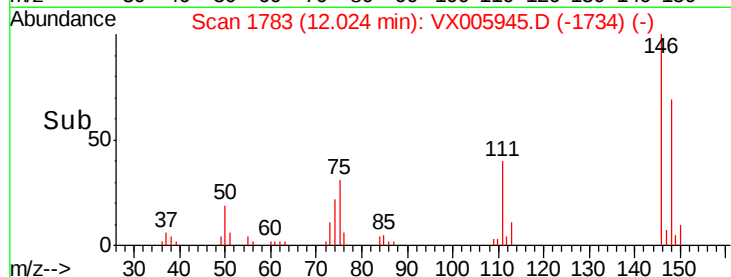
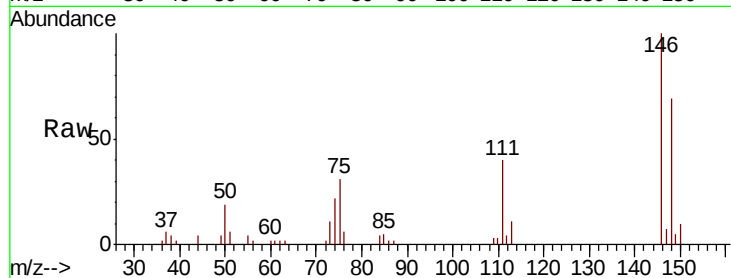




#87
 1,3-Dichlorobenzene
 Concen: 2.331 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX005945.D
 Acq: 13 Nov 2018 13:41

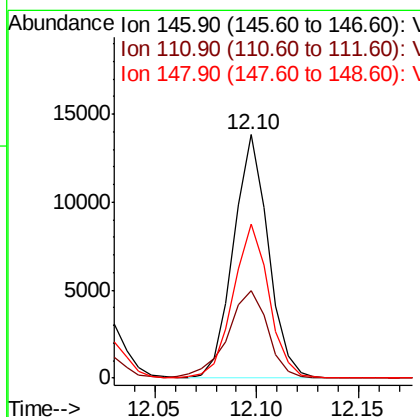
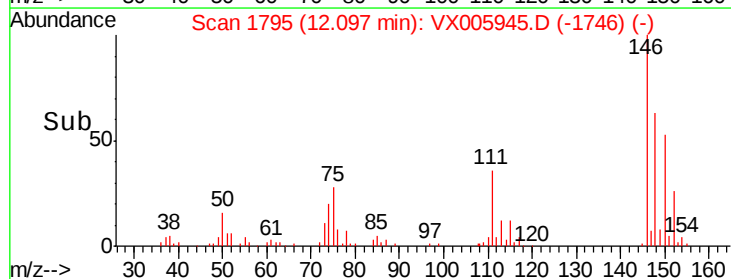
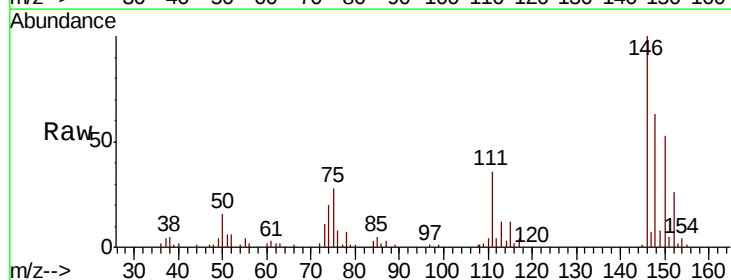
Instrument :
 MSVOA_X
 ClientSampleId :
 SS003MW326-181108DL

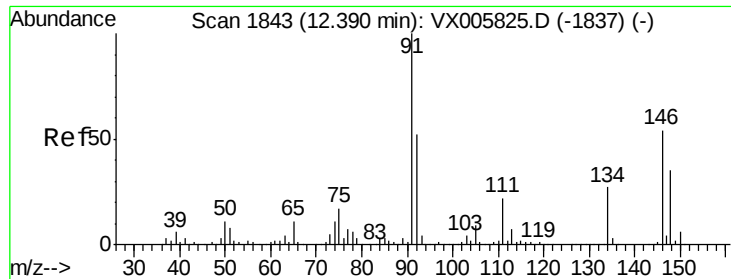
Tot Ion:146 Resp: 4509
 Ion Ratio Lower Upper
 146 100
 111 40.2 19.0 57.0
 148 68.0 31.9 95.9



#88
 1,4-Dichlorobenzene
 Concen: 8.242 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX005945.D
 Acq: 13 Nov 2018 13:41

Tgt Ion:146 Resp: 16318
 Ion Ratio Lower Upper
 146 100
 111 41.7 18.6 55.8
 148 65.3 32.1 96.3

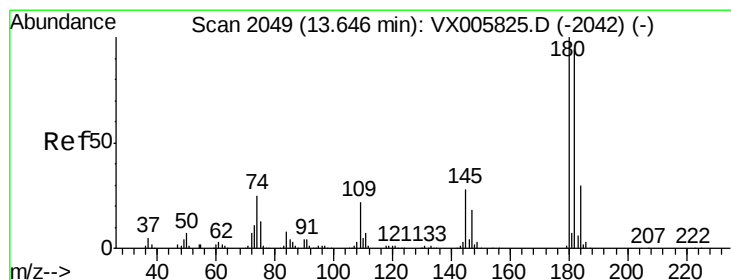
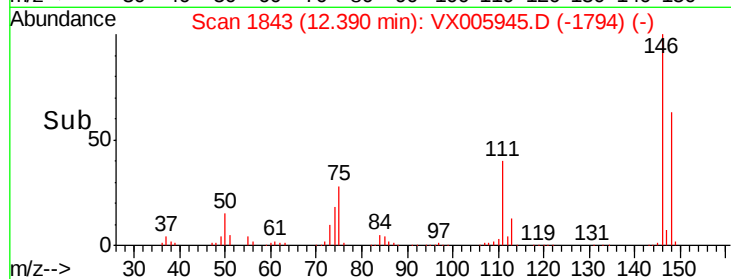
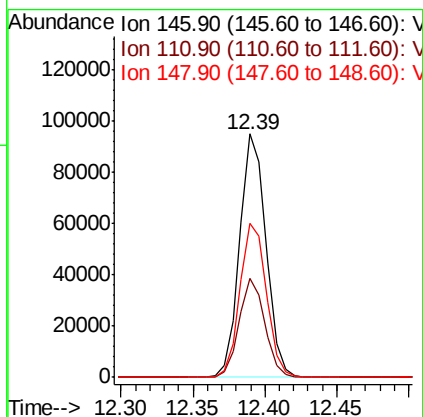
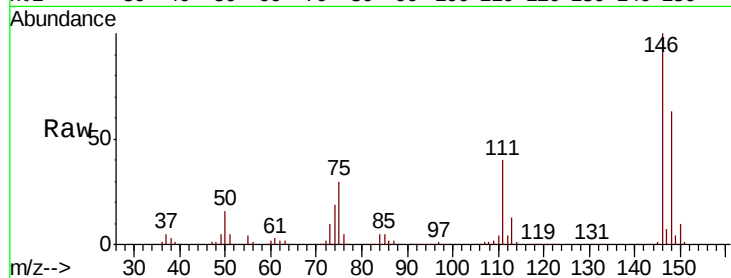




#91
 1,2-Dichlorobenzene
 Concen: 62.132 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX005945.D
 Acq: 13 Nov 2018 13:41

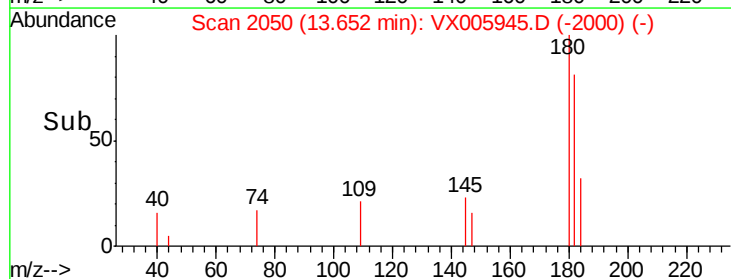
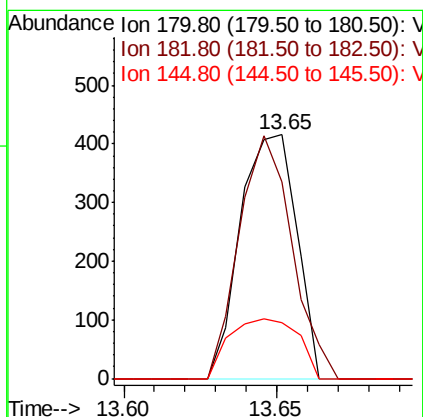
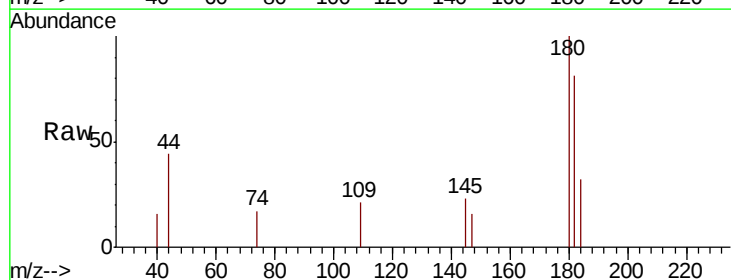
Instrument :
 MSVOA_X
 ClientSampleId :
 SS003MW326-181108DL

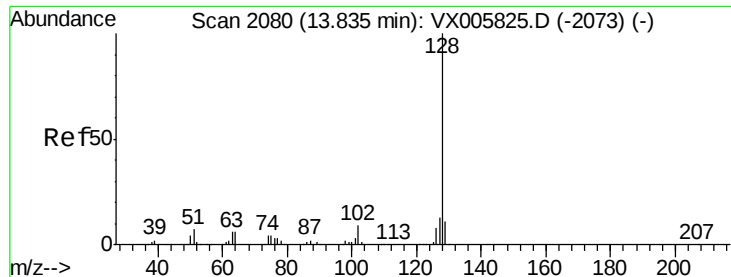
Tot Ion:146 Resp: 120380
 Ion Ratio Lower Upper
 146 100
 111 39.7 20.0 59.9
 148 64.1 32.2 96.6



#93
 1,2,4-Trichlorobenzene
 Concen: 0.388 ug/l
 RT: 13.65 min Scan# 2050
 Delta R.T. 0.01 min
 Lab File: VX005945.D
 Acq: 13 Nov 2018 13:41

Tgt Ion:180 Resp: 529
 Ion Ratio Lower Upper
 180 100
 182 93.8 47.6 142.8
 145 29.9 14.1 42.2





#95

Naphthalene

Concen: 1.339 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

Instrument :

MSVOA_X

ClientSampleId :

SS003MW326-181108DL

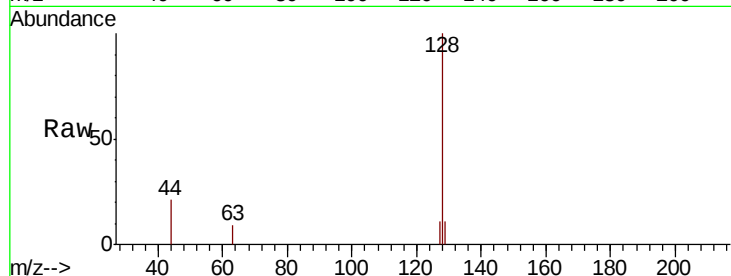
Tot Ion:128 Resp: 737

Ion Ratio Lower Upper

128 100

127 6.8 10.4 15.6#

129 6.1 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

13.83

600

400

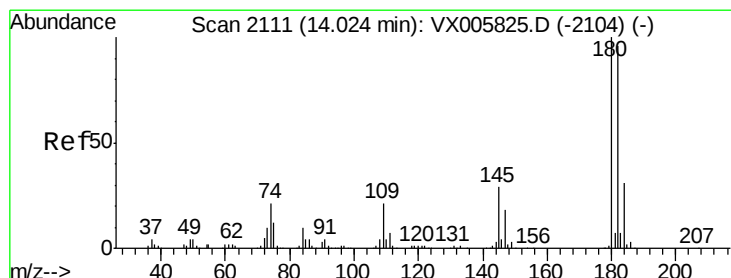
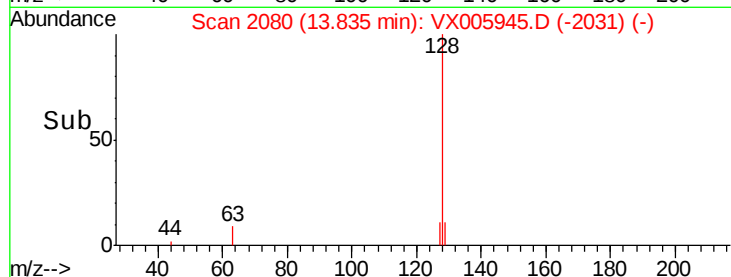
200

0

13.80

13.85

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 0.314 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.01 min

Lab File: VX005945.D

Acq: 13 Nov 2018 13:41

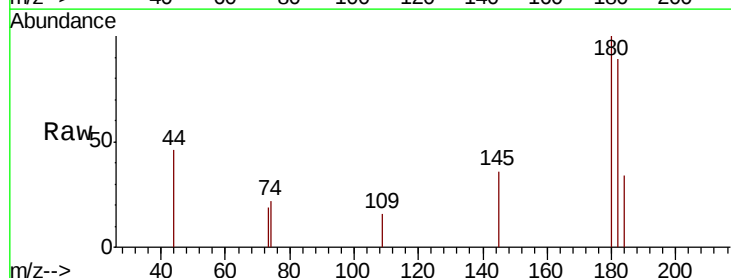
Tgt Ion:180 Resp: 437

Ion Ratio Lower Upper

180 100

182 103.0 48.0 144.2

145 31.1 15.1 45.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

14.02

500

400

300

200

100

0

14.00

14.05

Time-->

