

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091319\
 Data File : VX012395.D
 Acq On : 13 Sep 2019 19:10
 Operator : SY/SP
 Sample : K4695-04
 Misc : 6.02g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T3-3-(0)

Quant Time: Sep 14 00:06:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091019S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 12:55:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	169666	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	287897	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	248673	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	102457	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	110157	45.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.84%	
35) Dibromofluoromethane	5.48	113	84159	45.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.20%	
50) Toluene-d8	8.71	98	335311	51.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.60%	
62) 4-Bromofluorobenzene	11.13	95	121401	40.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	80.92%	

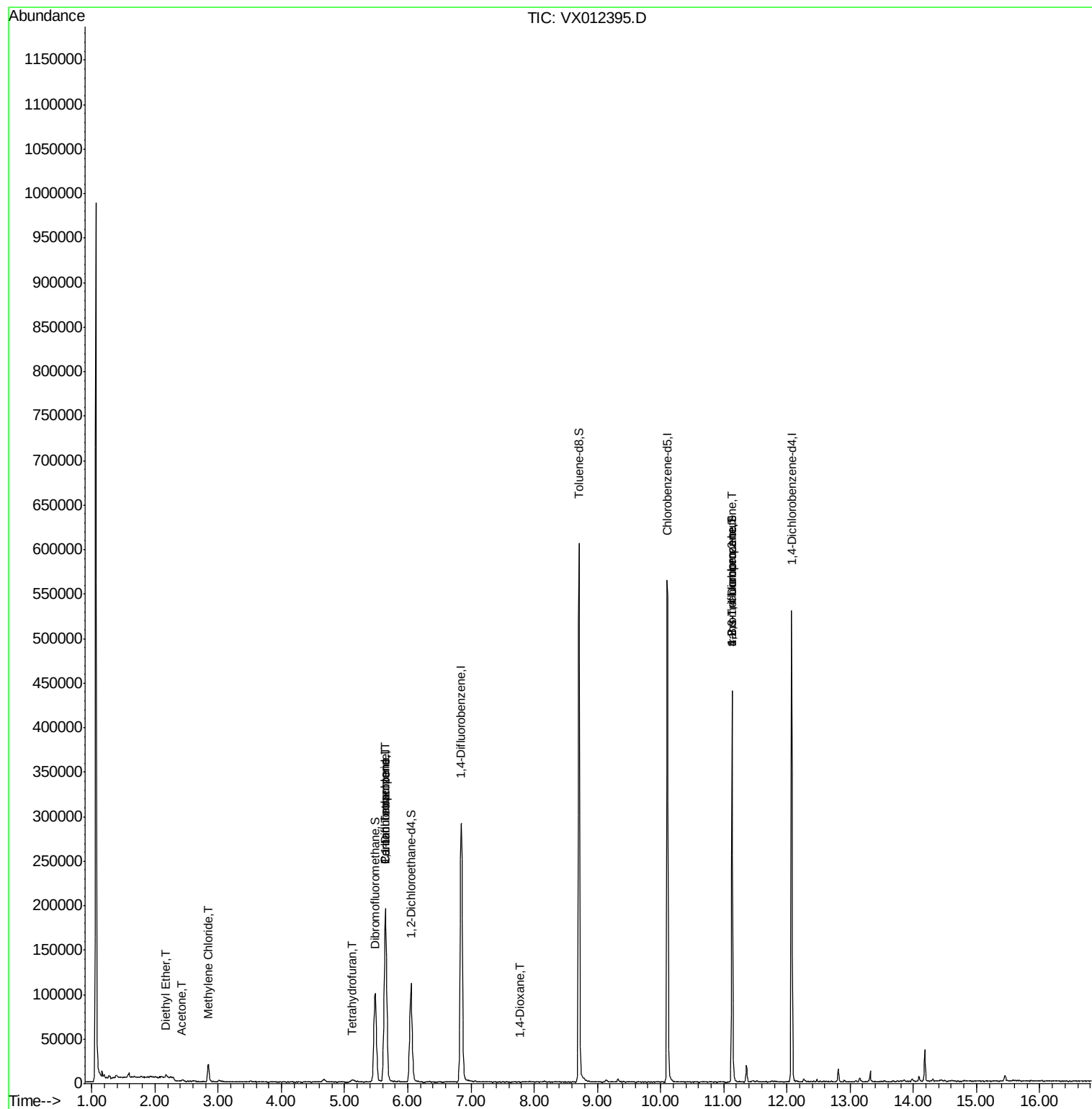
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	86	Below Cal	#	70
8) Diethyl Ether	2.17	74	1043	1.362	ug/l	71
11) Tert butyl alcohol	3.02	59	1685	Below Cal	#	94
16) Acetone	2.43	43	2264	3.987	ug/l	97
20) Methylene Chloride	2.84	84	9163	2.678	ug/l	89
29) Tetrahydrofuran	5.12	42	3378	8.625	ug/l	93
36) 1,1-Dichloropropene	5.64	75	14764	7.033	ug/l #	53
38) Carbon Tetrachloride	5.65	117	19372	7.865	ug/l #	14
49) 1,4-Dioxane	7.77	88	27	1.528	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	63051	47.903	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	63051	143.529	ug/l #	5

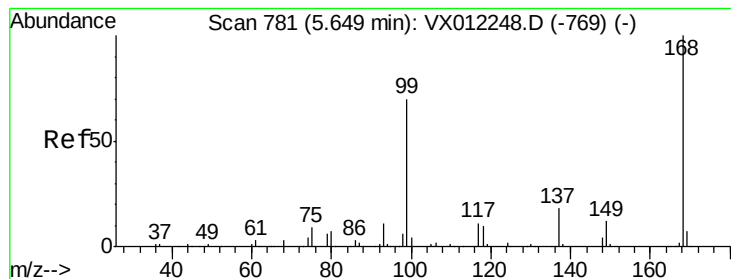
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX091319\
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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: VX012395.D

Acq: 13 Sep 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

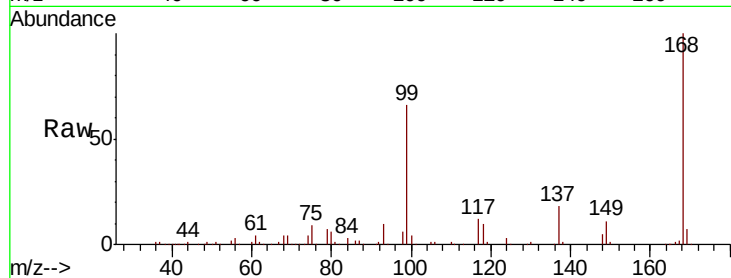
T3-3-(0)

Tgt Ion: 168 Resp: 169666

Ion Ratio Lower Upper

168 100

99 66.2 55.8 83.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

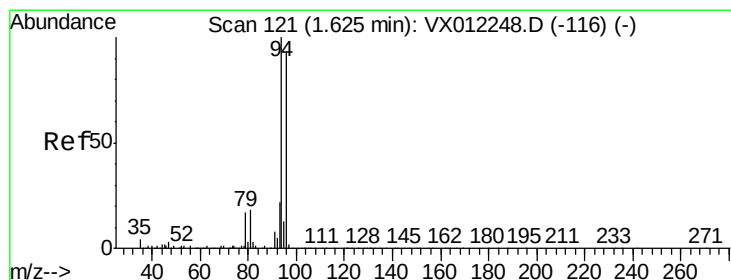
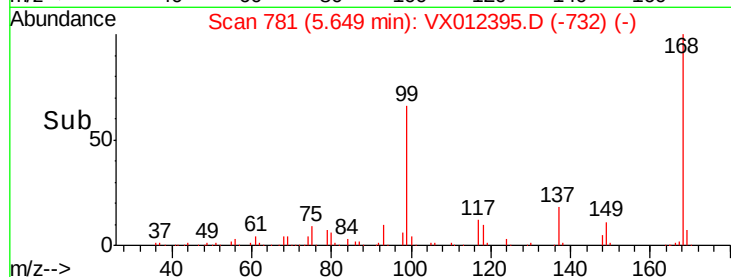
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012395.D

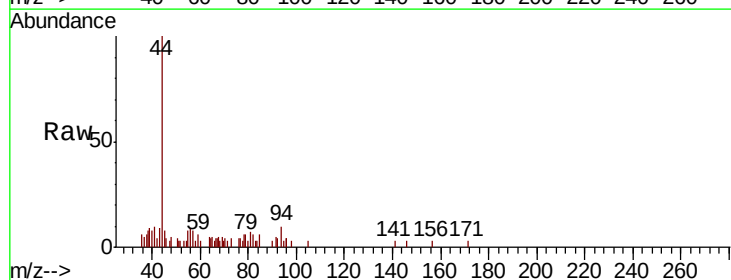
Acq: 13 Sep 2019 19:10

Tgt Ion: 94 Resp: 86

Ion Ratio Lower Upper

94 100

96 64.0 74.0 111.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

150

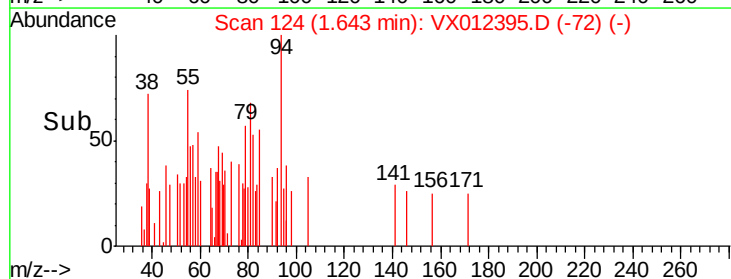
100

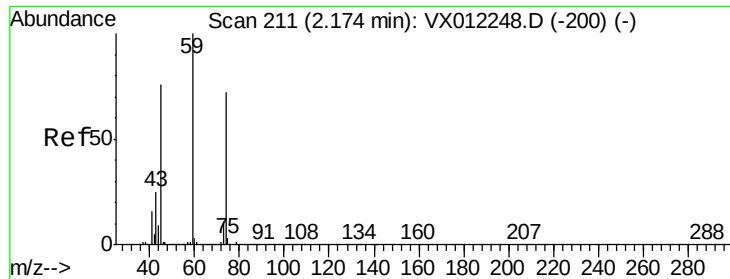
50

0

Time-->

1.62 1.64 1.66





#8

Diethyl Ether

Concen: 1.362 ug/l

RT: 2.17 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX012395.D

Acq: 13 Sep 2019 19:10

Instrument :

MSVOA_X

ClientSampled :

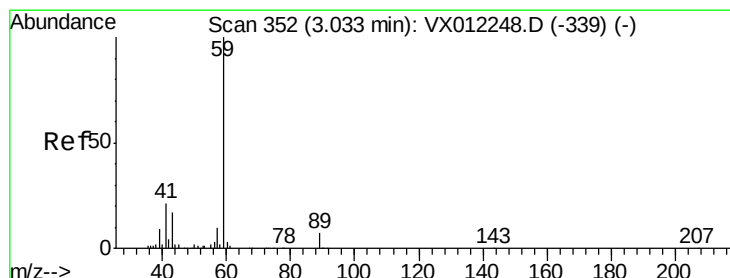
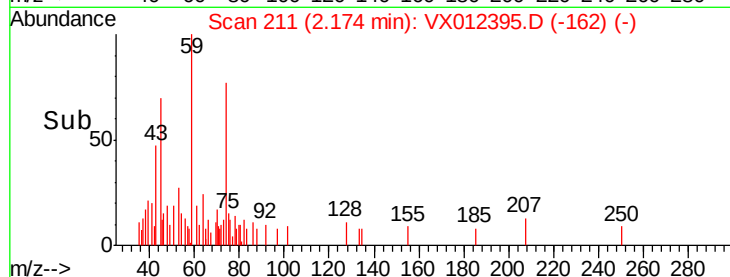
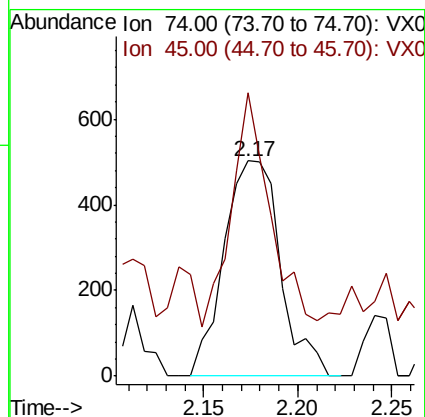
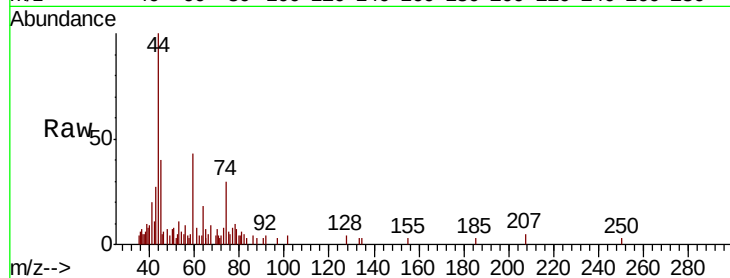
T3-3-(0)

Tgt Ion: 74 Resp: 1043

Ion Ratio Lower Upper

74 100

45 73.5 51.3 153.9



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX012395.D

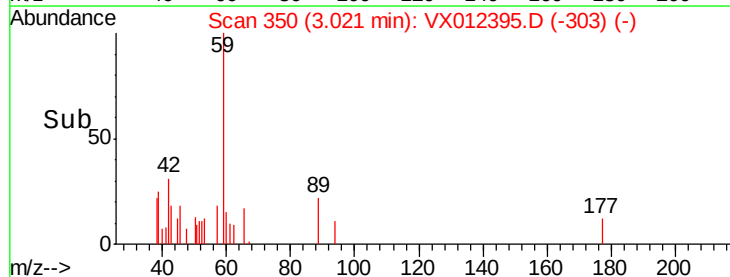
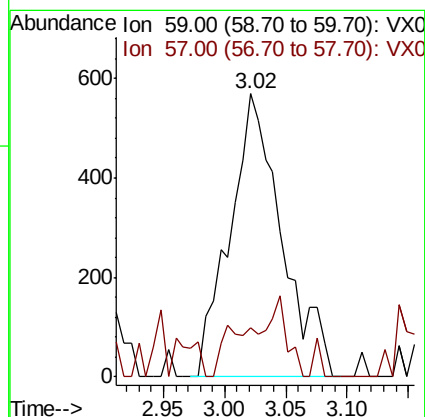
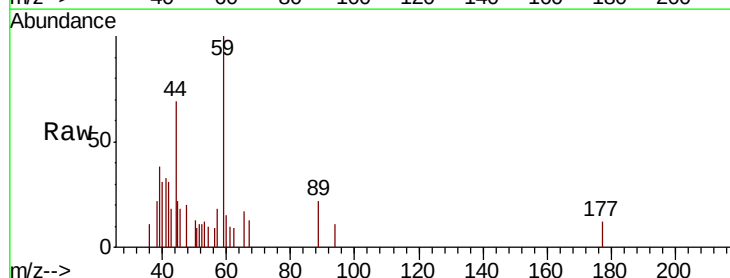
Acq: 13 Sep 2019 19:10

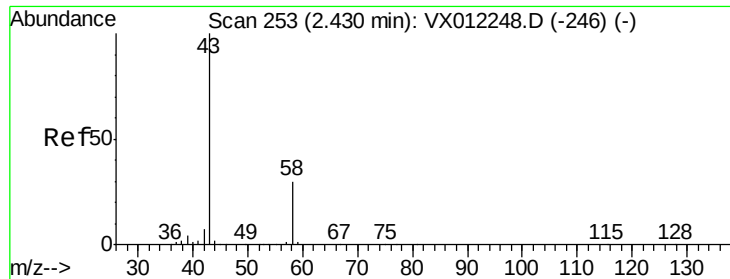
Tgt Ion: 59 Resp: 1685

Ion Ratio Lower Upper

59 100

57 7.4 7.8 11.6#





#16

Acetone

Concen: 3.987 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX012395.D

Acq: 13 Sep 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

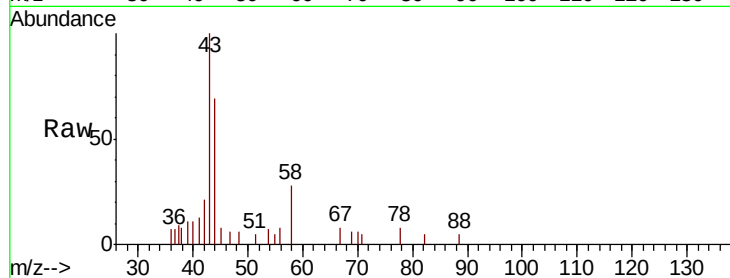
T3-3-(0)

Tgt Ion: 43 Resp: 2264

Ion Ratio Lower Upper

43 100

58 27.8 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1200

1000

800

600

400

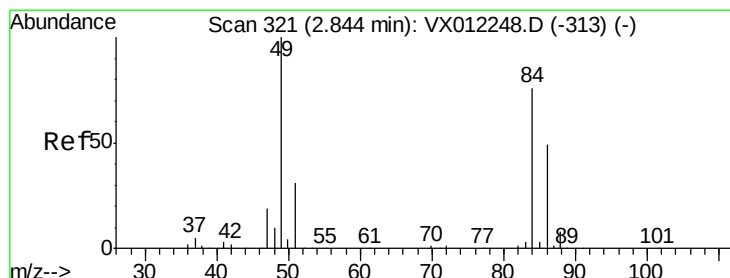
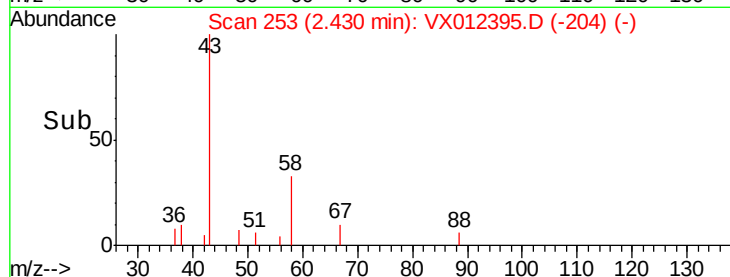
200

0

Time-->

2.35 2.40 2.45 2.50

2.43



#20

Methylene Chloride

Concen: 2.678 ug/l

RT: 2.84 min Scan# 320

Delta R.T. -0.01 min

Lab File: VX012395.D

Acq: 13 Sep 2019 19:10

Tgt Ion: 84 Resp: 9163

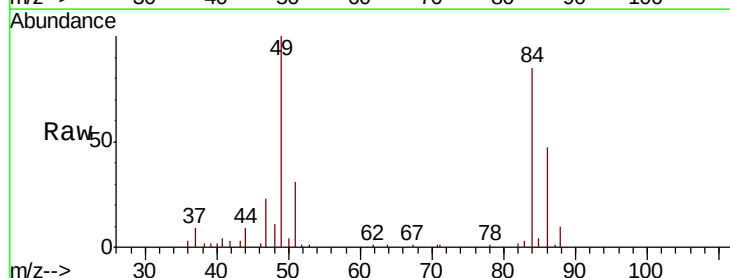
Ion Ratio Lower Upper

84 100

49 117.6 105.0 157.6

51 37.0 32.6 48.8

86 55.1 51.8 77.6



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

10000

8000

6000

4000

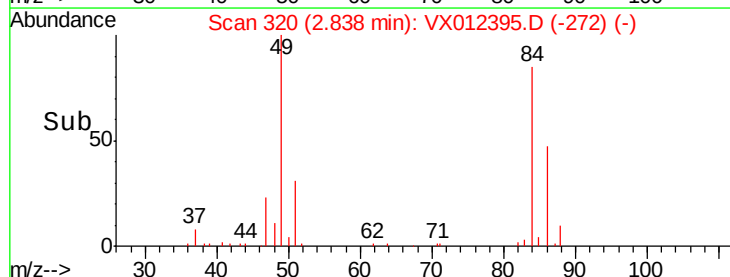
2000

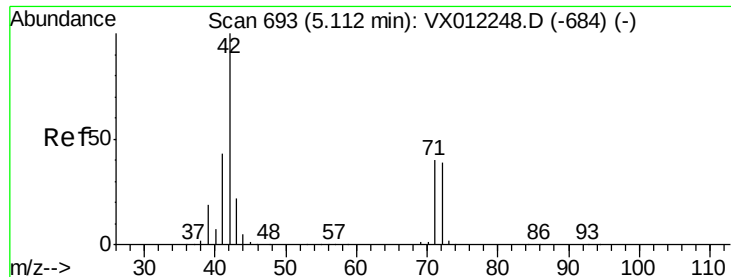
0

Time-->

2.75 2.80 2.85 2.90 2.95

2.84





#29

Tetrahydrofuran

Concen: 8.625 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.01 min

Lab File: VX012395.D

Acq: 13 Sep 2019 19:10

Instrument :

MSVOA_X

ClientSampled :

T3-3-(0)

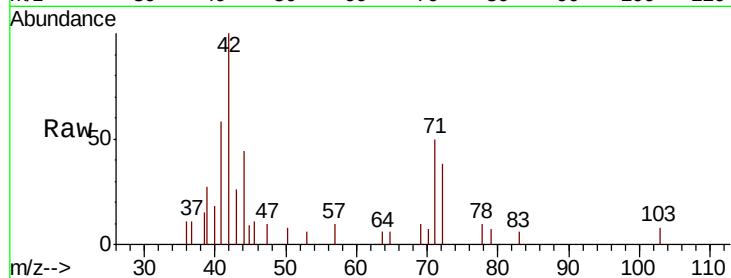
Tgt Ion: 42 Resp: 3378

Ion Ratio Lower Upper

42 100

72 35.7 35.2 52.8

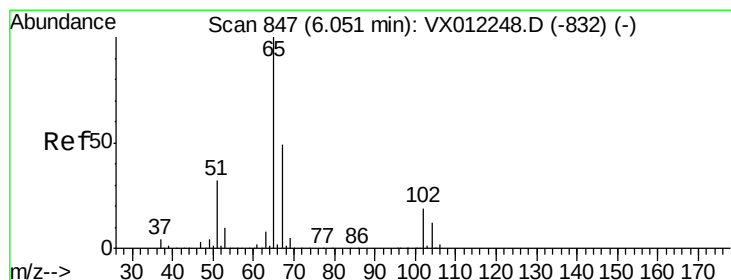
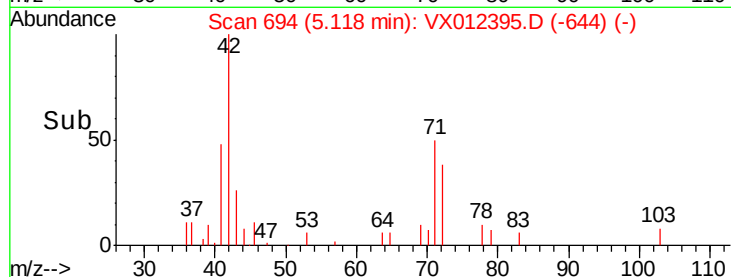
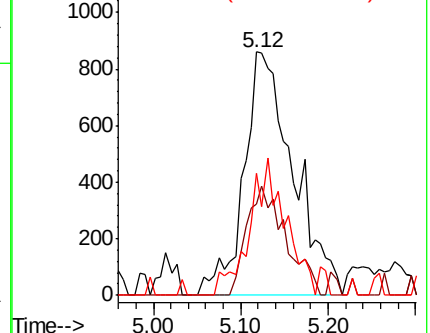
71 41.2 32.5 48.7



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



#33

1,2-Dichloroethane-d4

Concen: 45.923 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012395.D

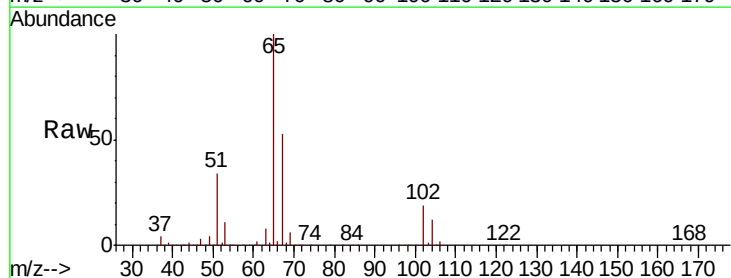
Acq: 13 Sep 2019 19:10

Tgt Ion: 65 Resp: 110157

Ion Ratio Lower Upper

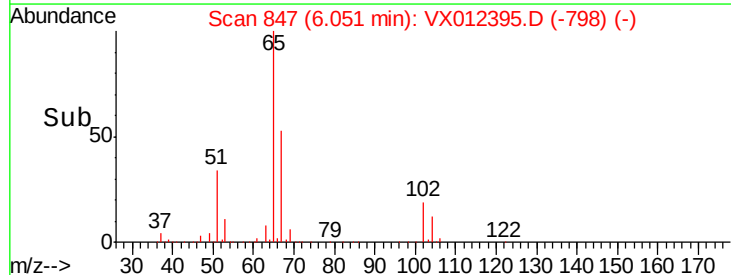
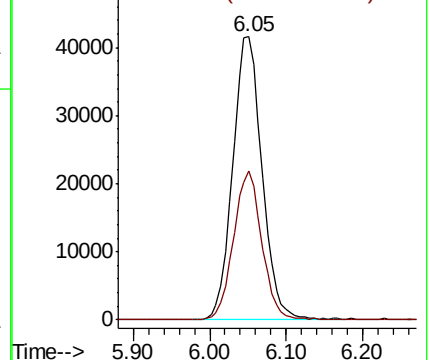
65 100

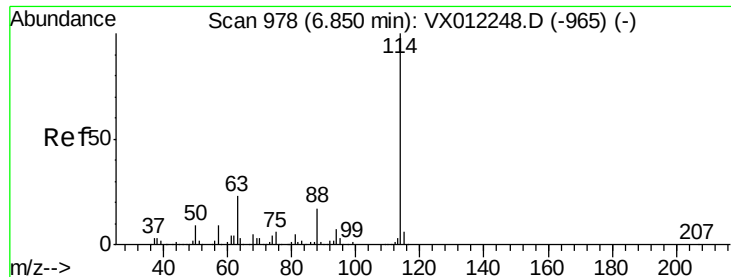
67 50.6 0.0 99.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

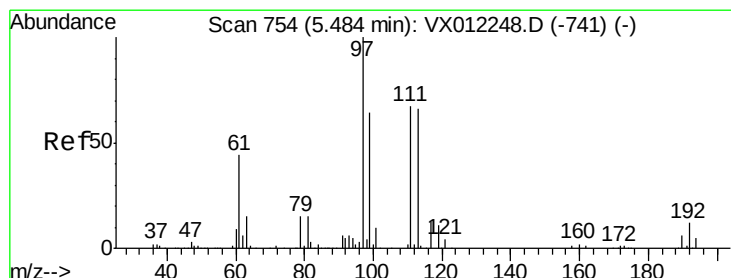
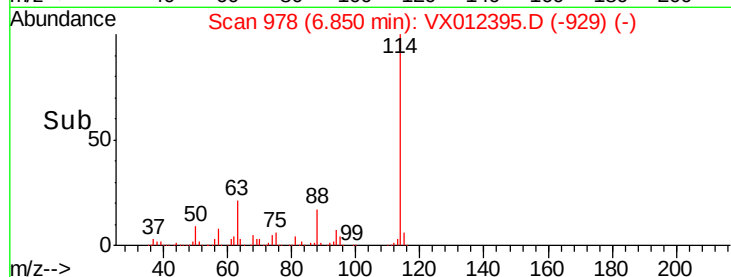
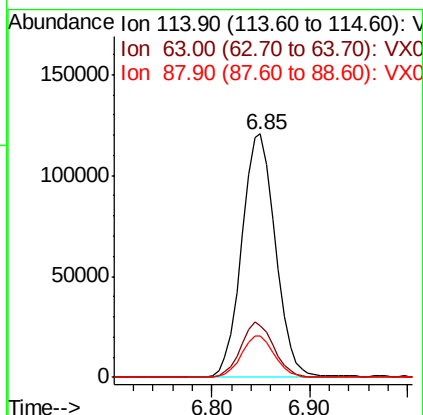
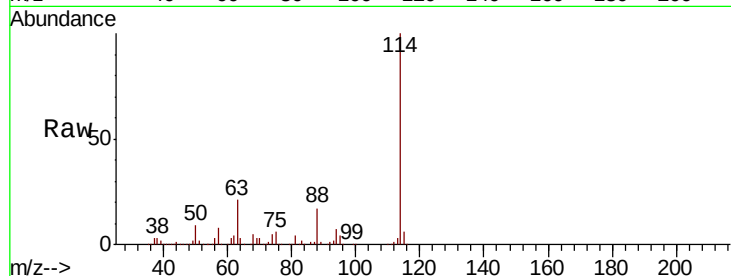




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012395.D
 Acq: 13 Sep 2019 19:10

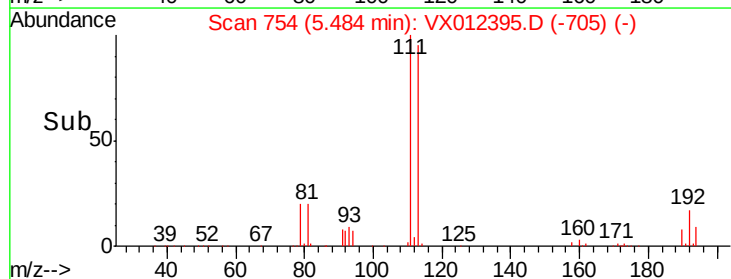
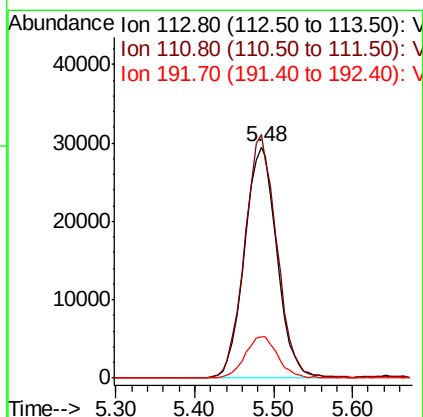
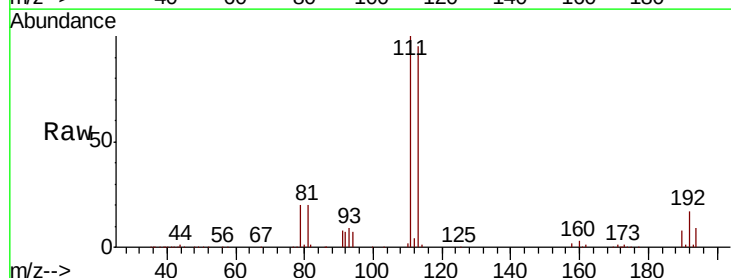
Instrument :
 MSVOA_X
 ClientSampleId :
 T3-3-(0)

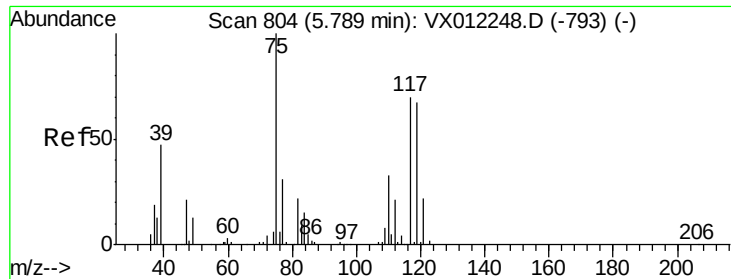
Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	45.2
88	17.0	0.0	34.8



#35
 Dibromofluoromethane
 Concen: 45.601 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. 0.00 min
 Lab File: VX012395.D
 Acq: 13 Sep 2019 19:10

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.3	83.0	124.6
192	18.2	14.3	21.5

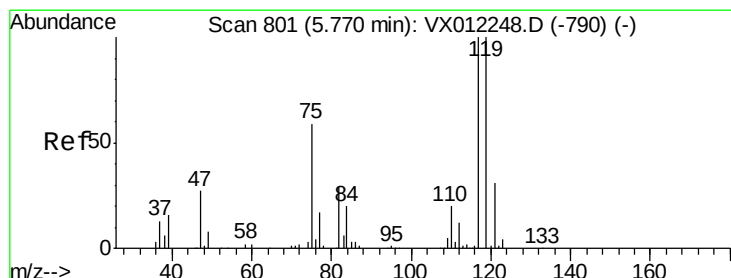
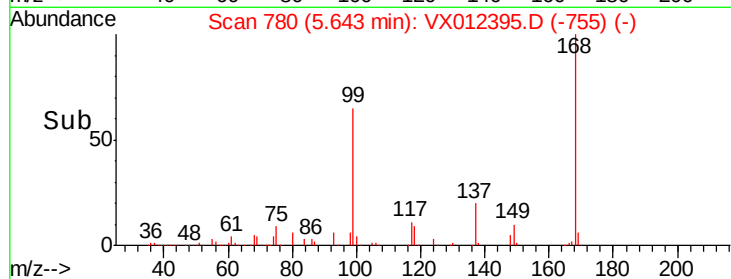
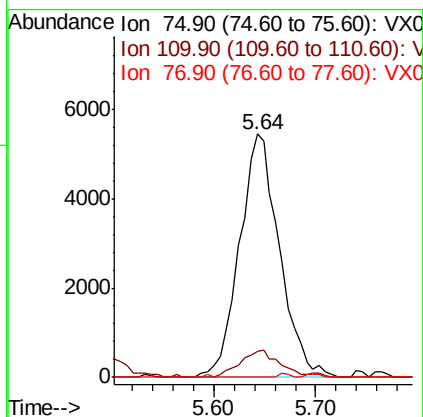
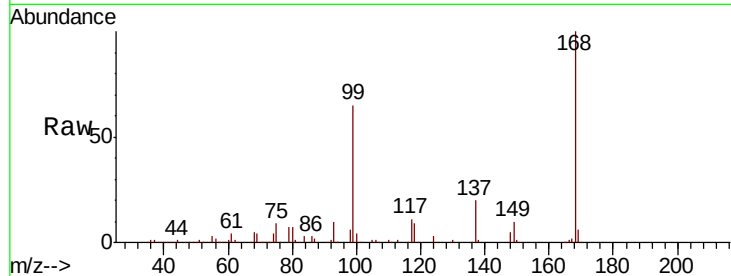




#36
 1,1-Dichloropropene
 Concen: 7.033 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX012395.D
 Acq: 13 Sep 2019 19:10

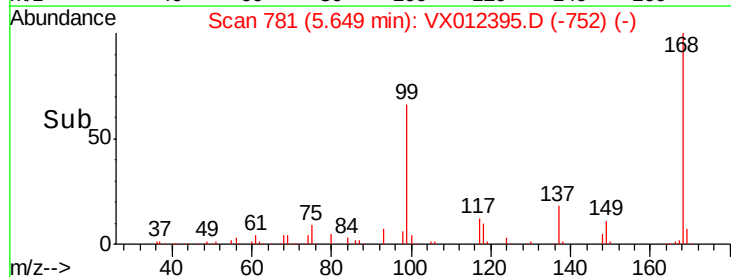
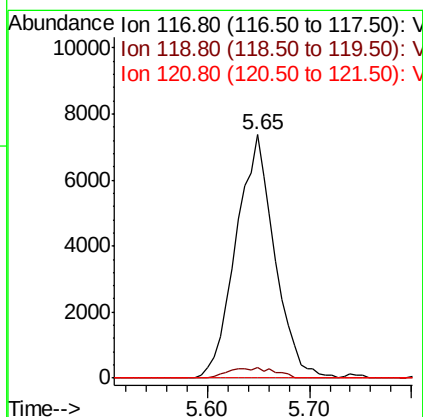
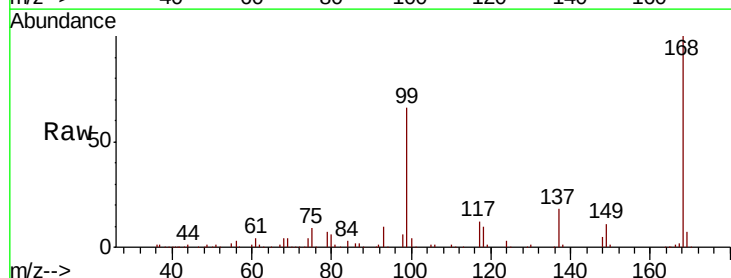
Instrument :
 MSVOA_X
 ClientSampleId :
 T3-3-(0)

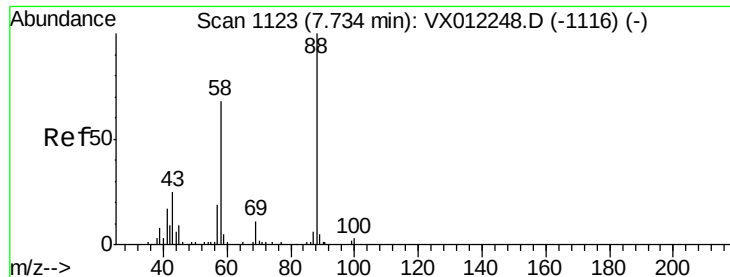
Tgt Ion: 75 Resp: 14764
 Ion Ratio Lower Upper
 75 100
 110 11.0 16.8 50.4#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 7.865 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.12 min
 Lab File: VX012395.D
 Acq: 13 Sep 2019 19:10

Tgt Ion: 117 Resp: 19372
 Ion Ratio Lower Upper
 117 100
 119 4.6 79.6 119.4#
 121 0.0 24.7 37.1#

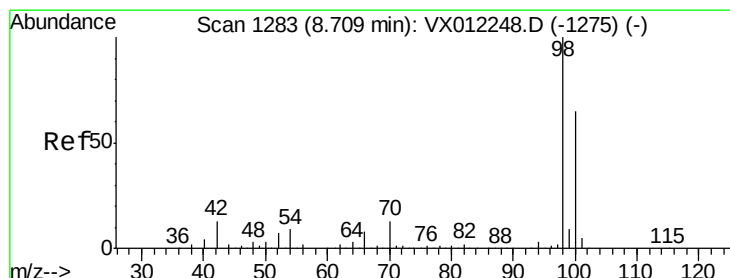
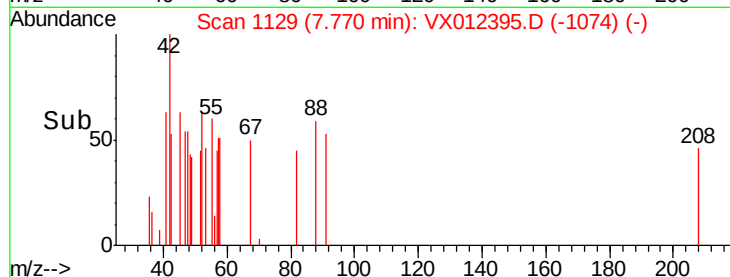
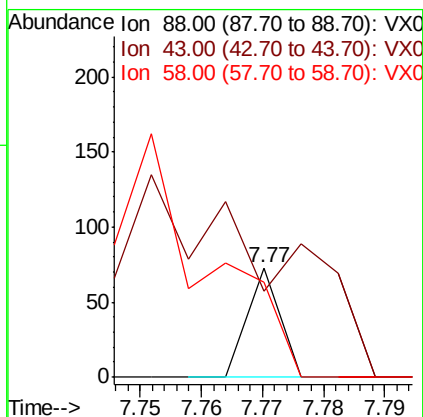
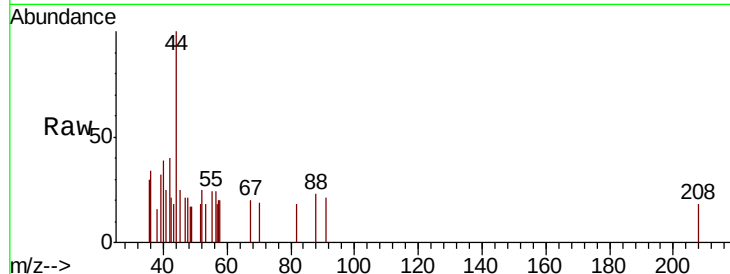




#49
1,4-Dioxane
Concen: 1.528 ug/l
RT: 7.77 min Scan# 1129
Delta R.T. 0.04 min
Lab File: VX012395.D
Acq: 13 Sep 2019 19:10

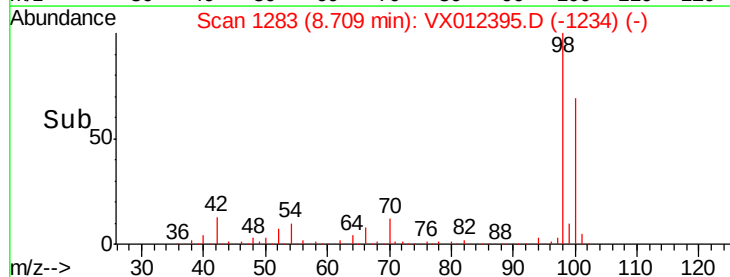
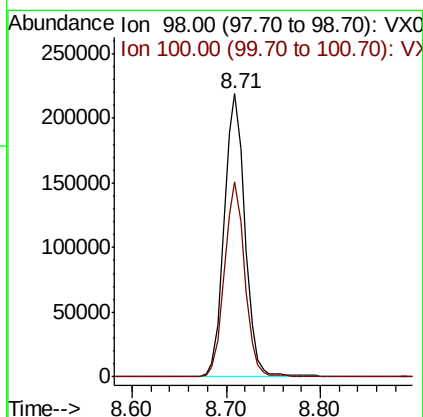
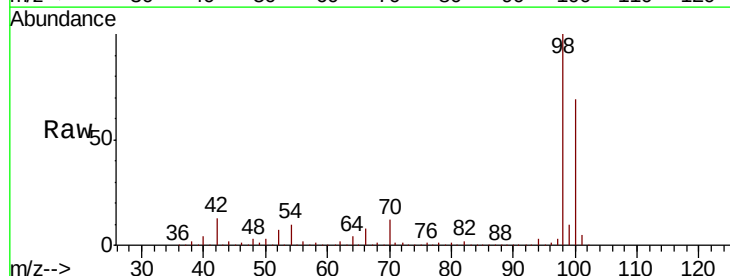
Instrument :
MSVOA_X
ClientSampled :
T3-3-(0)

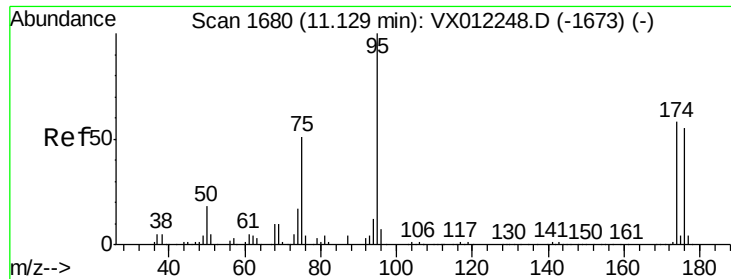
Tgt Ion: 88 Resp: 27
Ion Ratio Lower Upper
88 100
43 829.6 31.0 46.4#
58 607.4 61.5 92.3#



#50
Toluene-d8
Concen: 51.802 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012395.D
Acq: 13 Sep 2019 19:10

Tgt Ion: 98 Resp: 335311
Ion Ratio Lower Upper
98 100
100 67.7 54.1 81.1





#62

4-Bromofluorobenzene

Concen: 40.455 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX012395.D

Acq: 13 Sep 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

T3-3-(0)

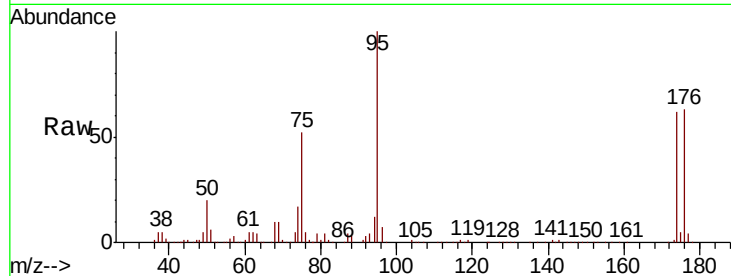
Tgt Ion: 95 Resp: 121401

Ion Ratio Lower Upper

95 100

174 70.5 0.0 127.0

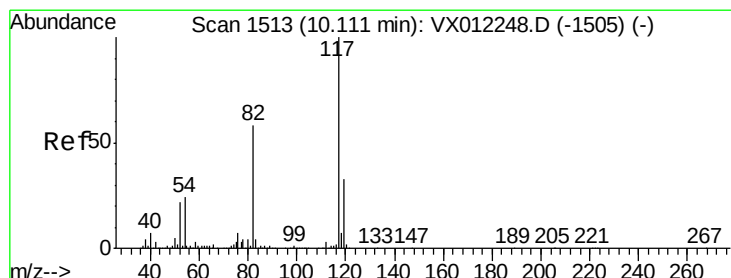
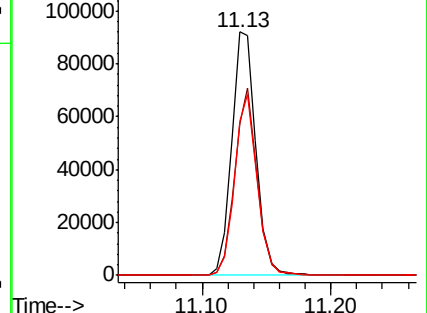
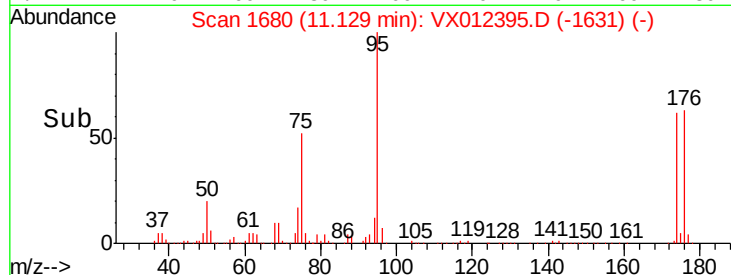
176 69.1 0.0 125.8



Abundance Ion 94.90 (94.60 to 95.60): VX012395.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX012395.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX012395.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012395.D

Acq: 13 Sep 2019 19:10

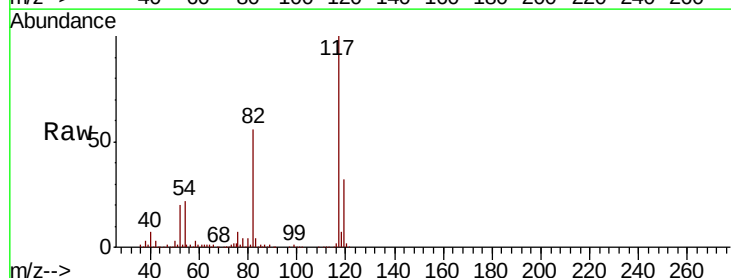
Tgt Ion: 117 Resp: 248673

Ion Ratio Lower Upper

117 100

82 55.9 46.4 69.6

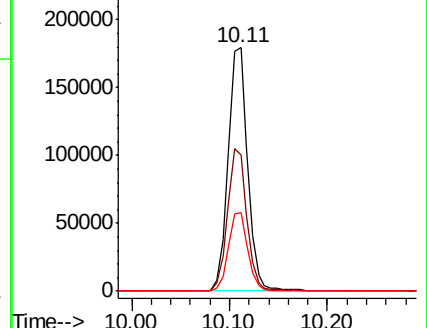
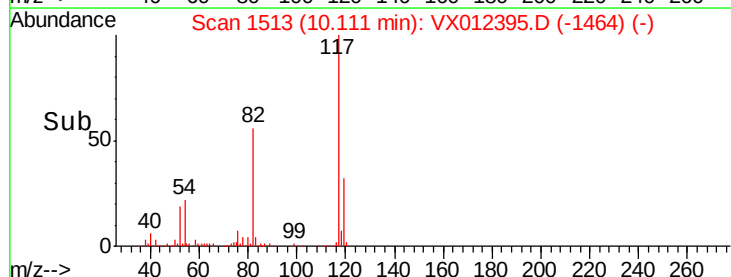
119 32.3 26.6 39.8

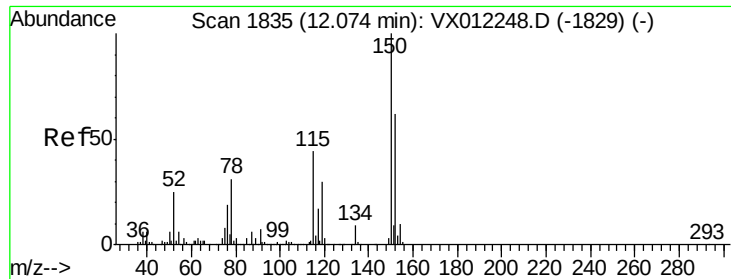


Abundance Ion 116.90 (116.60 to 117.60): VX012395.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012395.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012395.D (-1464) (-)

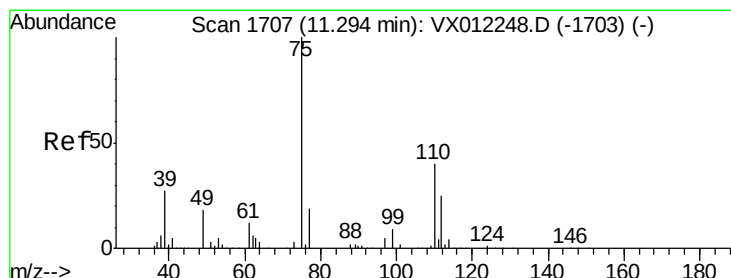
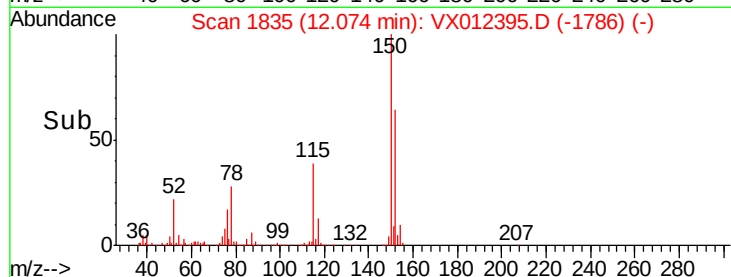
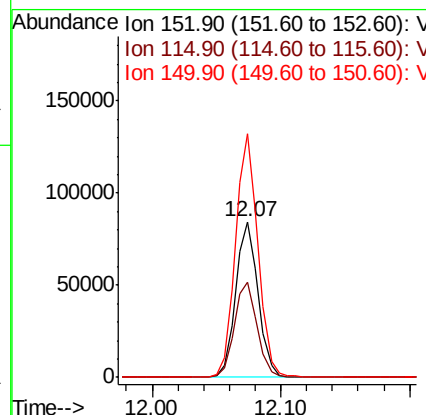
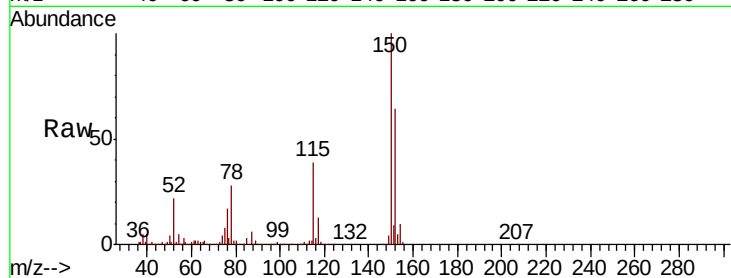




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX012395.D
 Acq: 13 Sep 2019 19:10

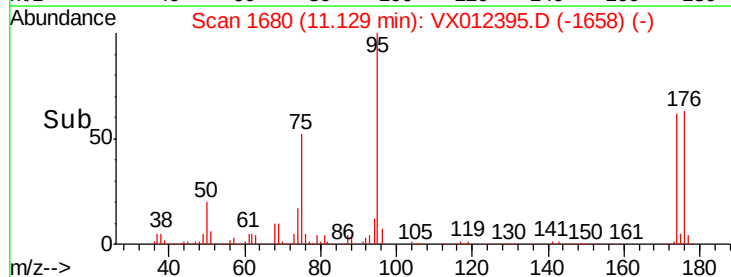
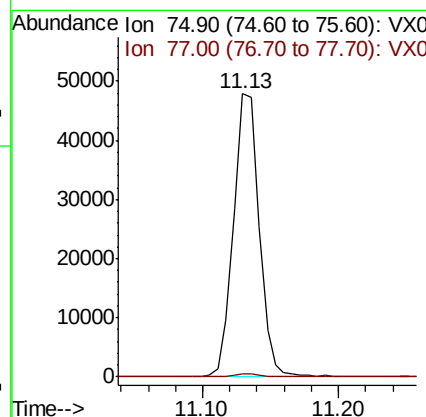
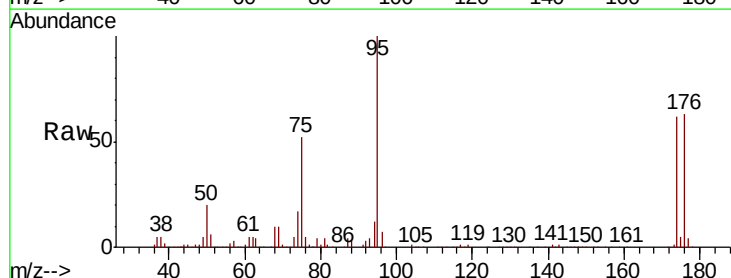
Instrument :
 MSVOA_X
 ClientSampleId :
 T3-3-(0)

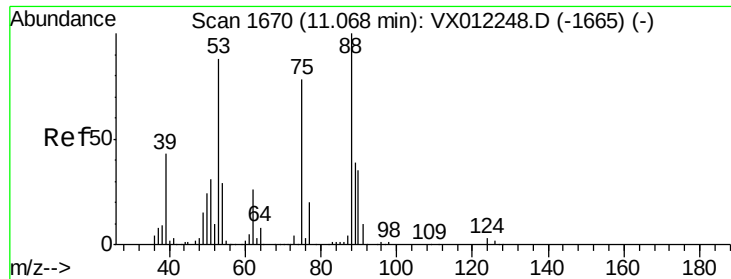
Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.2	45.5	136.4
150	157.4	0.0	346.4



#76
 1,2,3-Trichloropropane
 Concen: 47.903 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX012395.D
 Acq: 13 Sep 2019 19:10

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	19.7	59.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 143.529 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012395.D

Acq: 13 Sep 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

T3-3-(0)

Tgt Ion: 75 Resp: 63051

Ion Ratio Lower Upper

75 100

53 0.3 88.1 132.1#

89 0.0 43.5 65.3#

