

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111519\
 Data File : VX013441.D
 Acq On : 15 Nov 2019 13:16
 Operator : JC/SP
 Sample : K5884-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0168

Quant Time: Nov 16 00:50:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	714409	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1149396	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1033949	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	466034	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	411650	48.64	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.28%	
35) Dibromofluoromethane	5.48	113	345507	47.93	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.86%	
50) Toluene-d8	8.71	98	1373198	50.53	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.06%	
62) 4-Bromofluorobenzene	11.14	95	455528	46.44	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	92.88%	

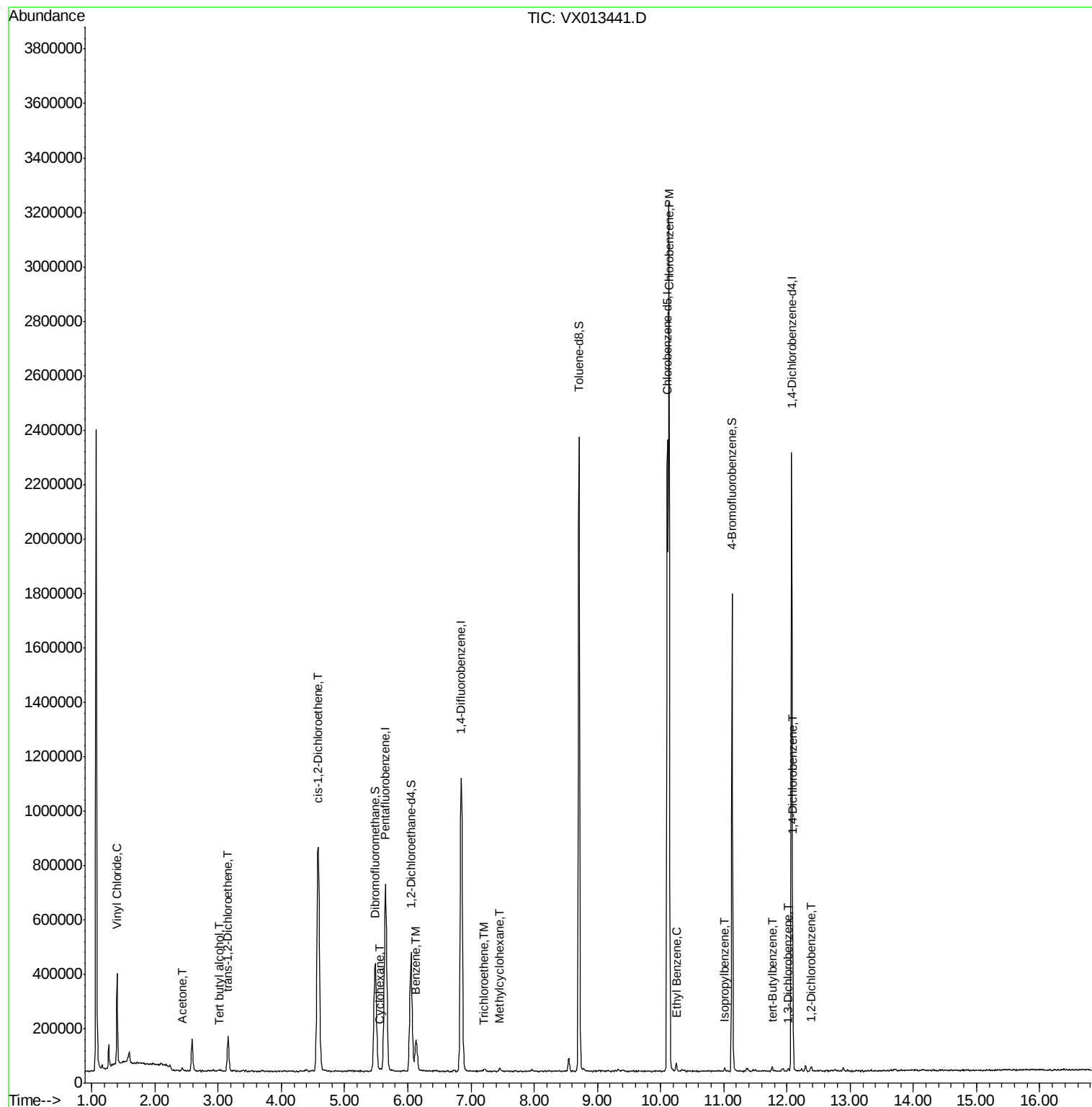
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	202617	19.938	ug/l	100
11) Tert butyl alcohol	3.02	59	8034	3.601	ug/l #	90
16) Acetone	2.43	43	12360	2.928	ug/l	90
21) trans-1,2-Dichloroethene	3.15	96	52231	7.320	ug/l	95
27) cis-1,2-Dichloroethene	4.58	96	544001	68.061	ug/l	88
31) Cyclohexane	5.56	56	4534	0.392	ug/l	94
39) Methylcyclohexane	7.45	83	5346	0.435	ug/l #	77
40) Benzene	6.13	78	142305	4.633	ug/l	100
44) Trichloroethene	7.20	130	2996	0.354	ug/l	77
65) Chlorobenzene	10.14	112	1417541	67.719	ug/l	99
67) Ethyl Benzene	10.25	91	18784	0.520	ug/l	92
73) Isopropylbenzene	11.01	105	8378	0.271	ug/l	86
83) tert-Butylbenzene	11.76	119	8399	0.324	ug/l	86
87) 1,3-Dichlorobenzene	12.02	146	4475	0.305	ug/l	88
88) 1,4-Dichlorobenzene	12.09	146	55894	3.736	ug/l	93
91) 1,2-Dichlorobenzene	12.39	146	4003	0.273	ug/l	97

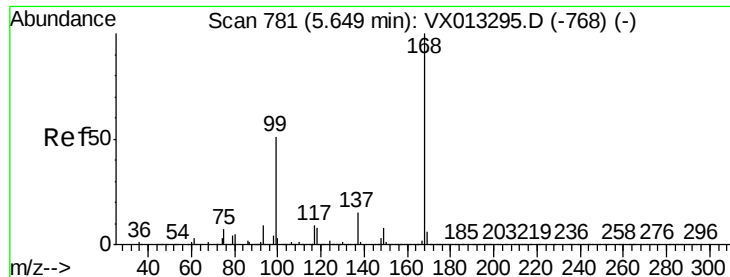
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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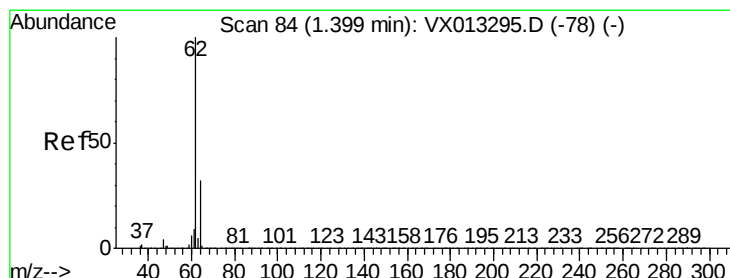
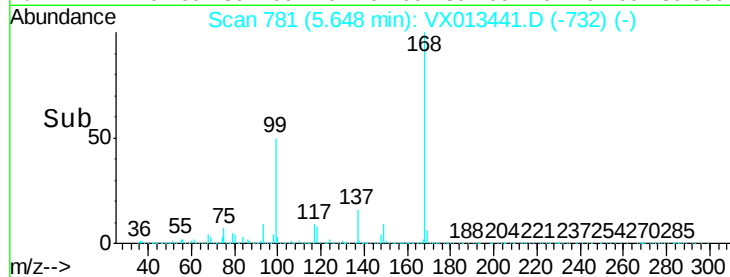
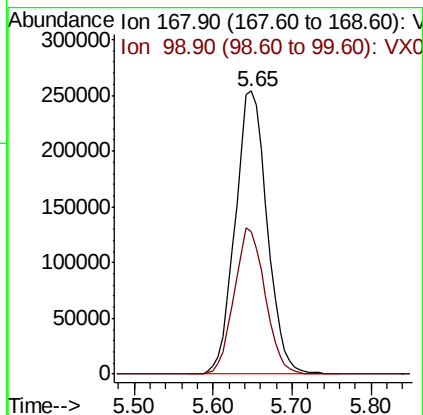
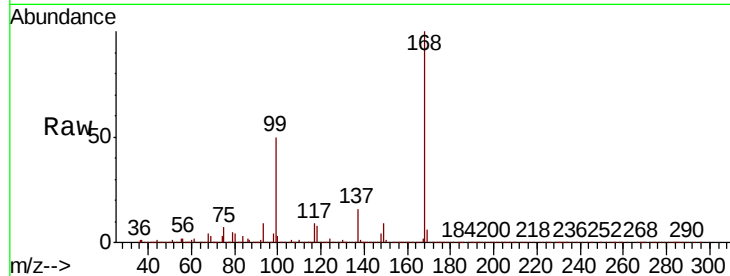


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.00 min
 Lab File: VX013441.D
 Acq: 15 Nov 2019 13:16

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0168

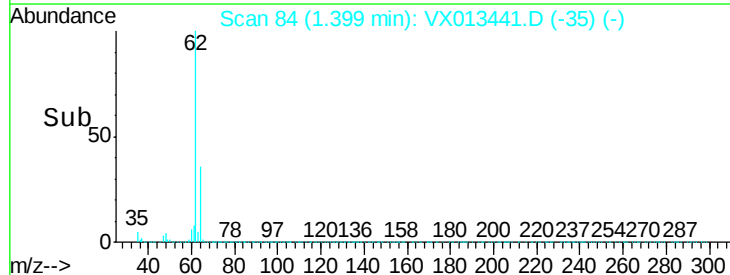
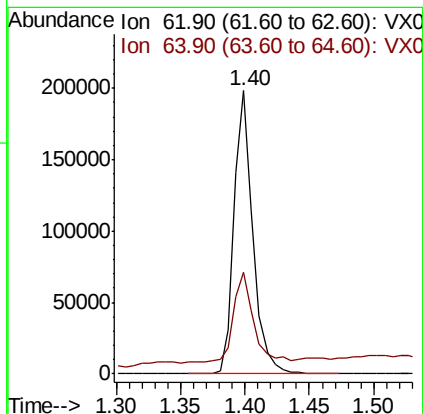
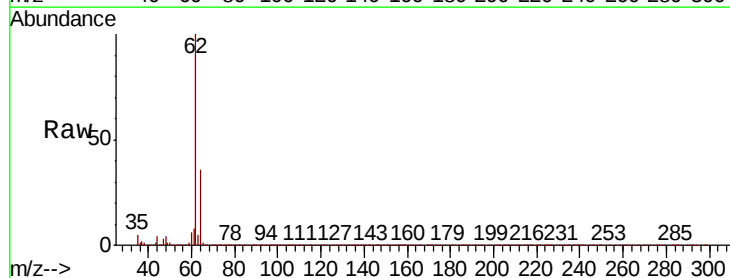
Tot Ion:168 Resp: 714409
 Ion Ratio Lower Upper
 168 100
 99 50.1 40.8 61.2

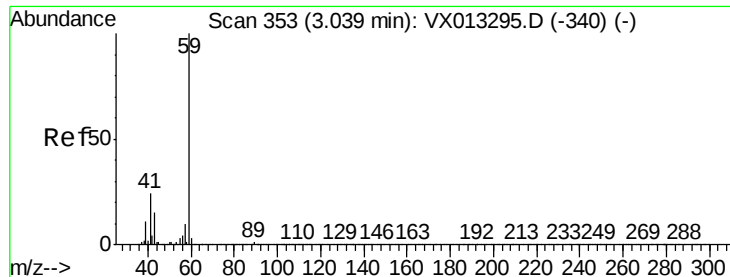


#4

Vinyl Chloride
 Concen: 19.938 ug/l
 RT: 1.40 min Scan# 84
 Delta R.T. -0.00 min
 Lab File: VX013441.D
 Acq: 15 Nov 2019 13:16

Tgt Ion: 62 Resp: 202617
 Ion Ratio Lower Upper
 62 100
 64 31.8 25.6 38.4



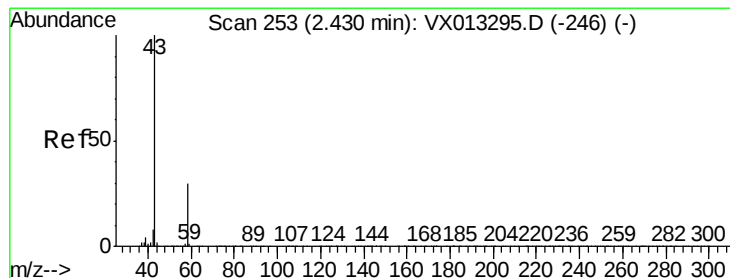
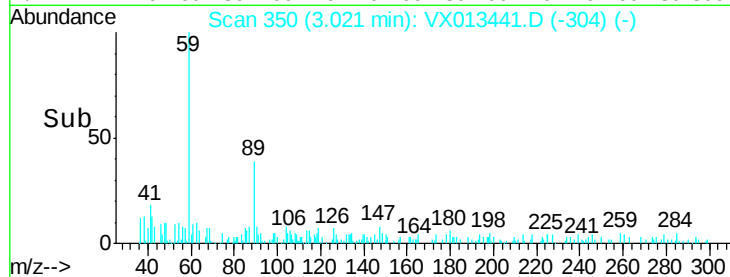
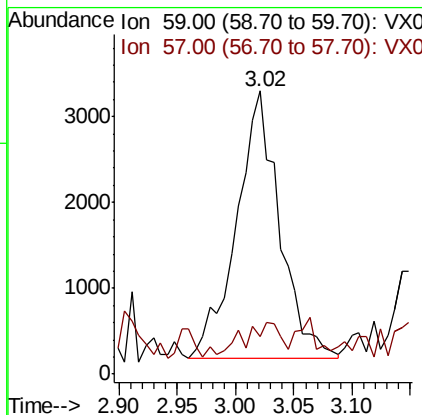
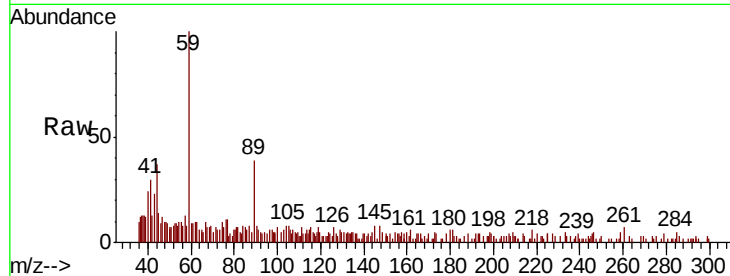


#11

Tert butyl alcohol
 Concen: 3.601 ug/l
 RT: 3.02 min Scan# 350
 Delta R.T. -0.02 min
 Lab File: VX013441.D
 Acq: 15 Nov 2019 13:16

Instrument :
 MSVOA_X
 ClientSampled :
 S36-0168

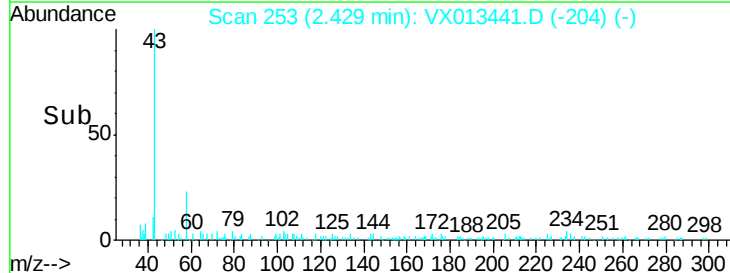
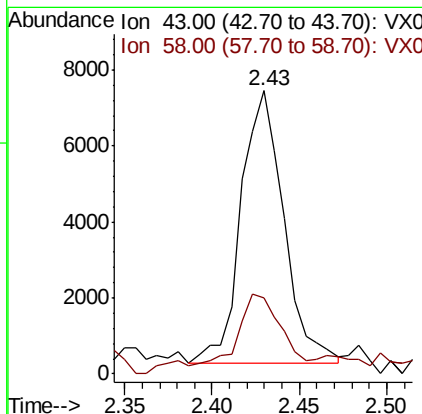
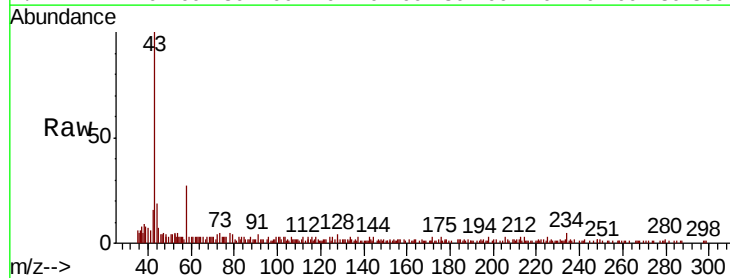
Tot Ion: 59 Resp: 8034
 Ion Ratio Lower Upper
 59 100
 57 6.2 8.0 12.0#

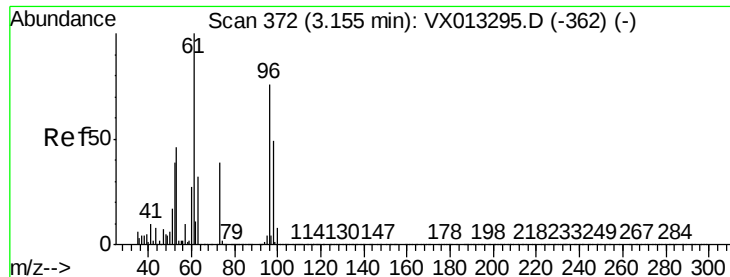


#16

Acetone
 Concen: 2.928 ug/l
 RT: 2.43 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VX013441.D
 Acq: 15 Nov 2019 13:16

Tgt Ion: 43 Resp: 12360
 Ion Ratio Lower Upper
 43 100
 58 24.9 24.3 36.5





#21

trans-1,2-Dichloroethene

Concen: 7.320 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013441.D

Acq: 15 Nov 2019 13:16

Instrument :

MSVOA_X

ClientSampleId :

S36-0168

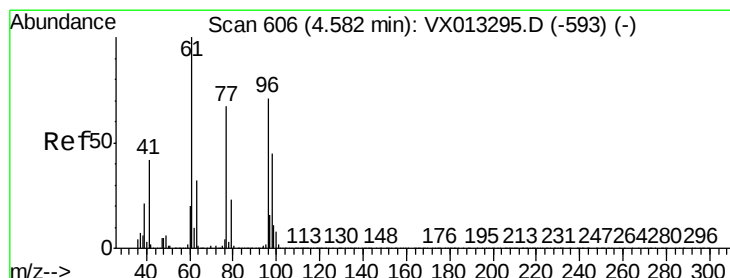
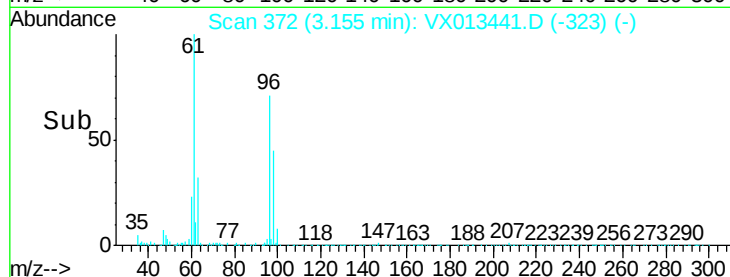
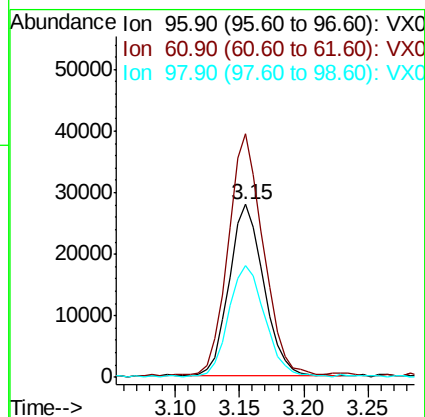
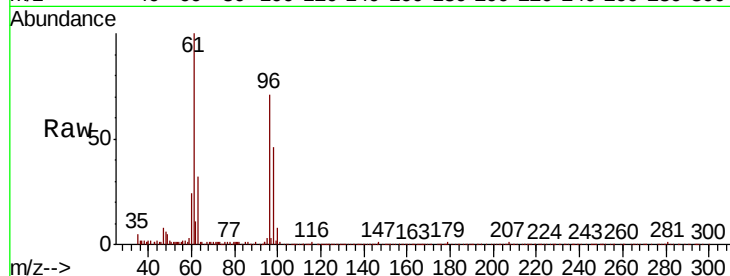
Tot Ion: 96 Resp: 52231

Ion Ratio Lower Upper

96 100

61 139.8 105.8 158.6

98 64.0 51.8 77.6



#27

cis-1,2-Dichloroethene

Concen: 68.061 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.00 min

Lab File: VX013441.D

Acq: 15 Nov 2019 13:16

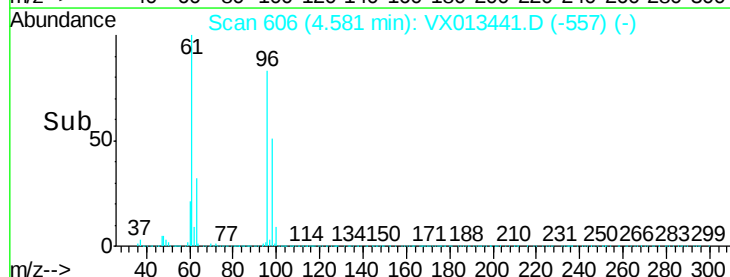
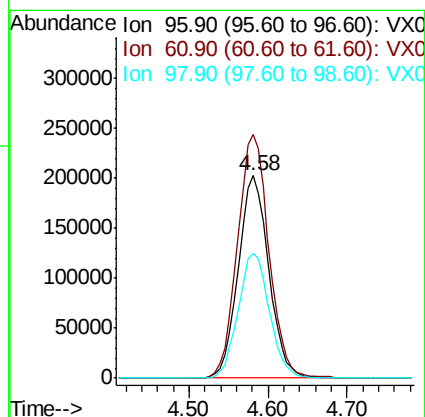
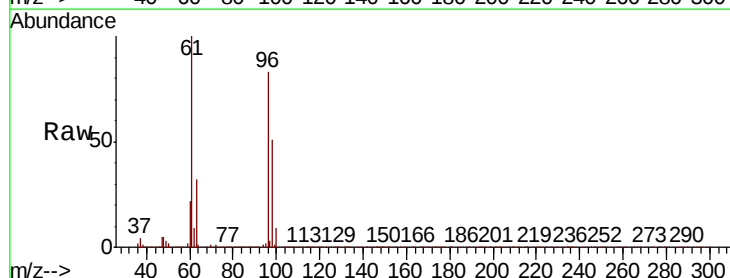
Tgt Ion: 96 Resp: 544001

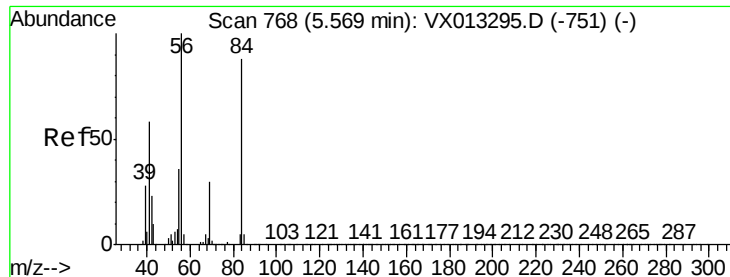
Ion Ratio Lower Upper

96 100

61 124.0 0.0 288.0

98 63.1 0.0 129.6

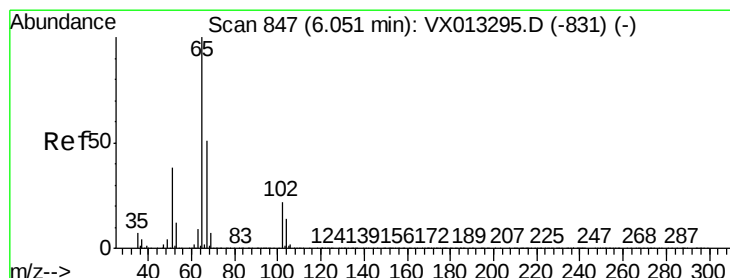
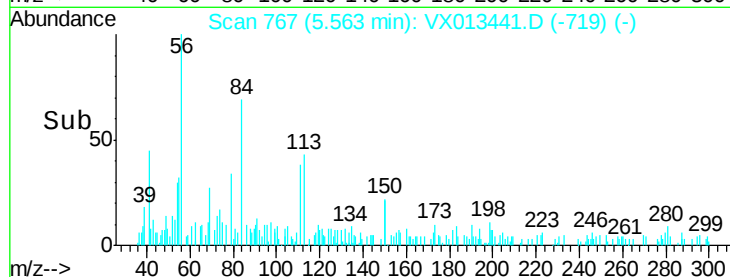
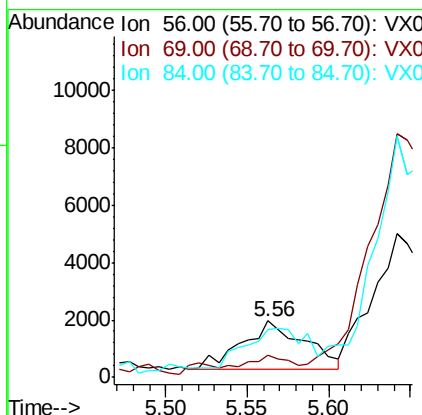
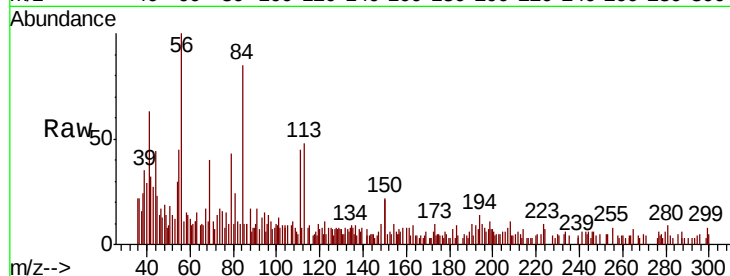




#31
Cyclohexane
Concen: 0.392 ug/l
RT: 5.56 min Scan# 767
Delta R.T. -0.01 min
Lab File: VX013441.D
Acq: 15 Nov 2019 13:16

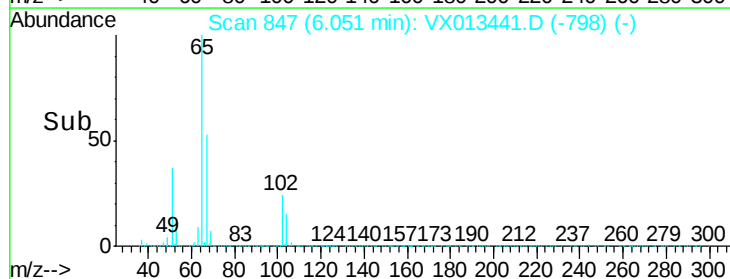
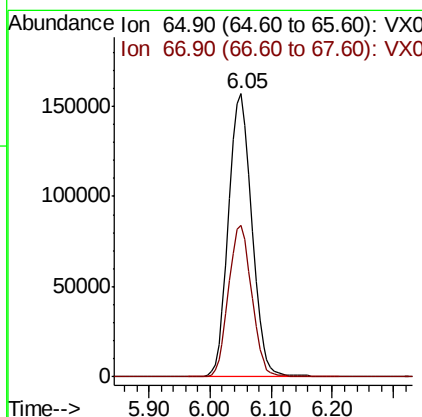
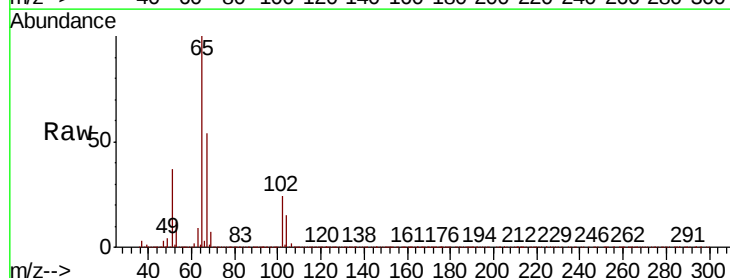
Instrument :
MSVOA_X
ClientSampled :
S36-0168

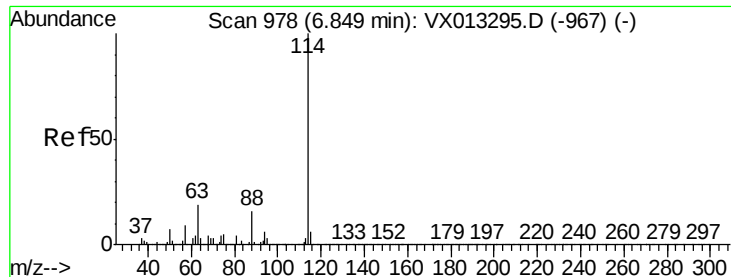
Tot Ion: 56 Resp: 4534
Ion Ratio Lower Upper
56 100
69 25.9 23.7 35.5
84 93.7 70.6 105.8



#33
1,2-Dichloroethane-d4
Concen: 48.638 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX013441.D
Acq: 15 Nov 2019 13:16

Tgt Ion: 65 Resp: 411650
Ion Ratio Lower Upper
65 100
67 52.8 0.0 104.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013441.D

Acq: 15 Nov 2019 13:16

Instrument :

MSVOA_X

ClientSampleId :

S36-0168

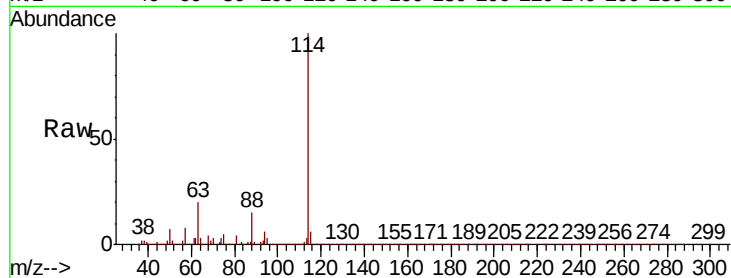
Tot Ion:114 Resp: 1149396

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.4

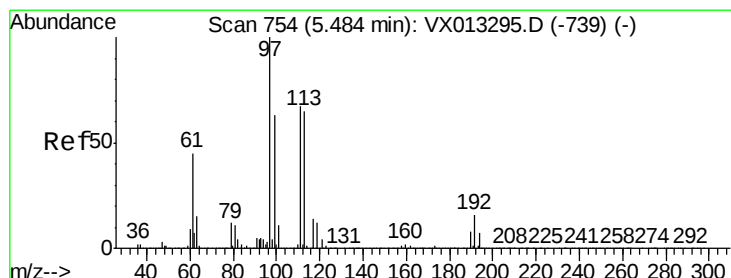
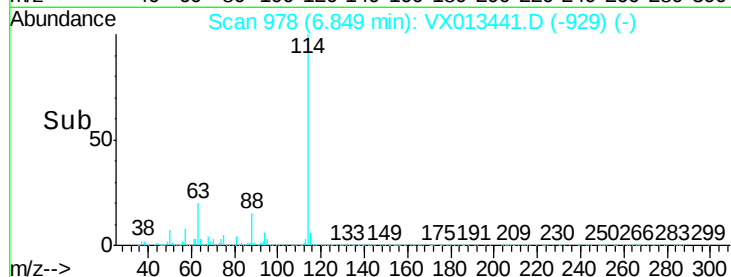
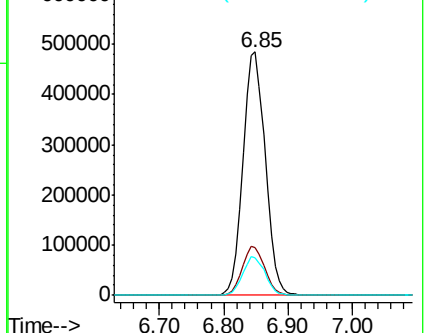
88 15.4 0.0 32.2



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



#35

Dibromofluoromethane

Concen: 47.926 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013441.D

Acq: 15 Nov 2019 13:16

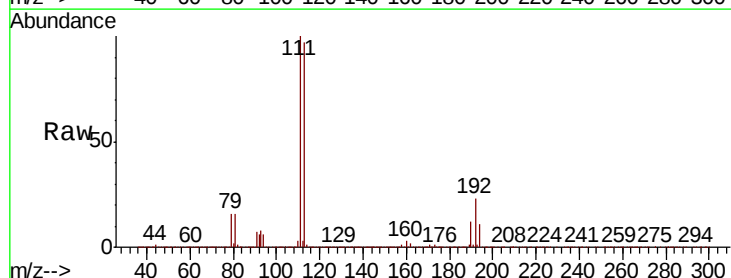
Tgt Ion:113 Resp: 345507

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

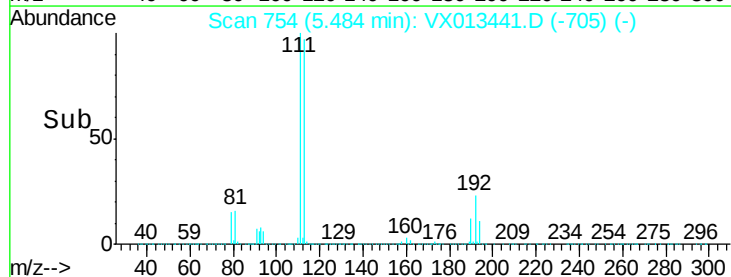
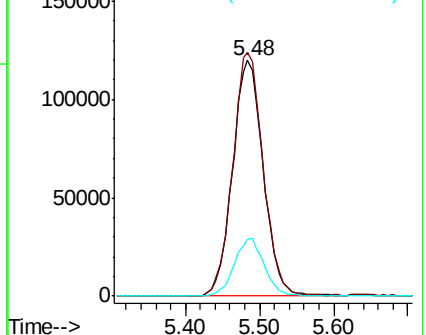
192 23.6 19.1 28.7

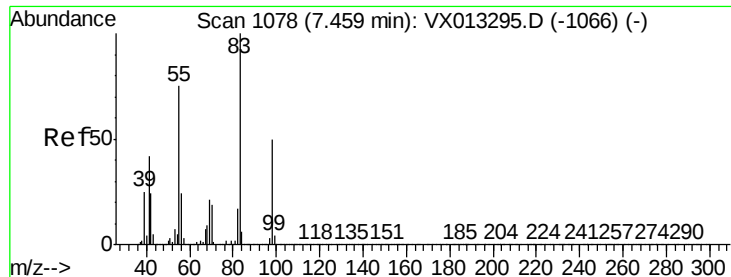


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

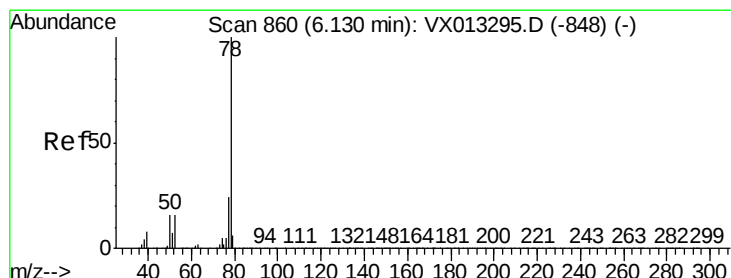
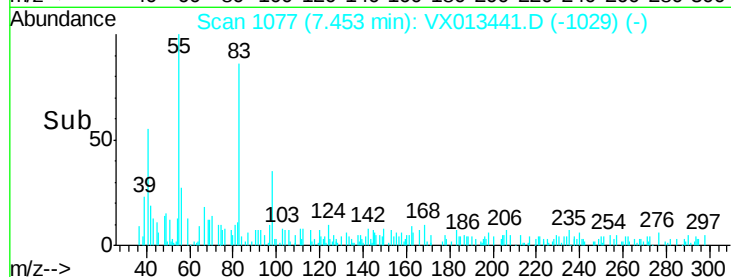
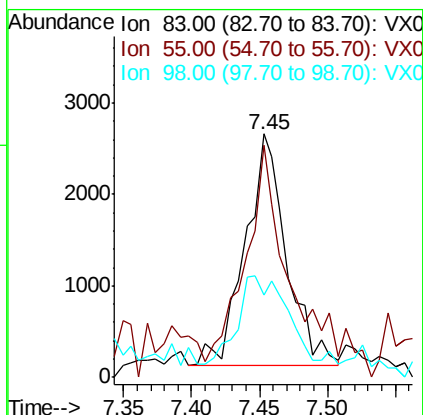
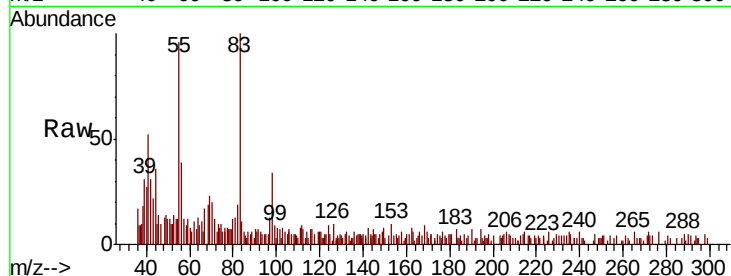




#39
Methvlcvclohexane
Concen: 0.435 ug/l
RT: 7.45 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VX013441.D
Acq: 15 Nov 2019 13:16

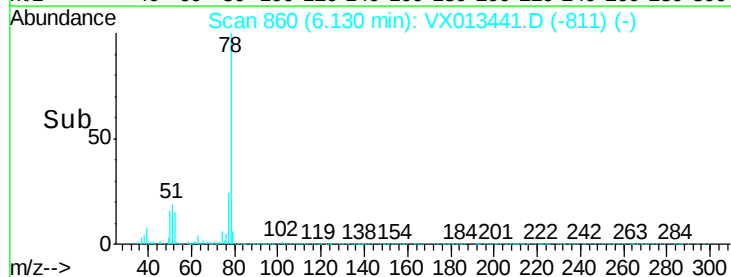
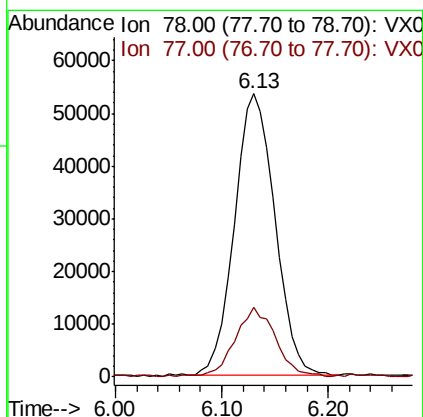
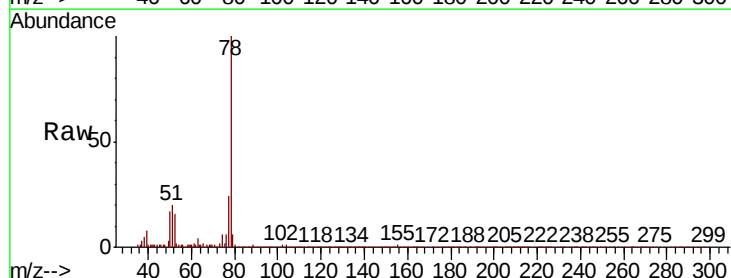
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S36-0168

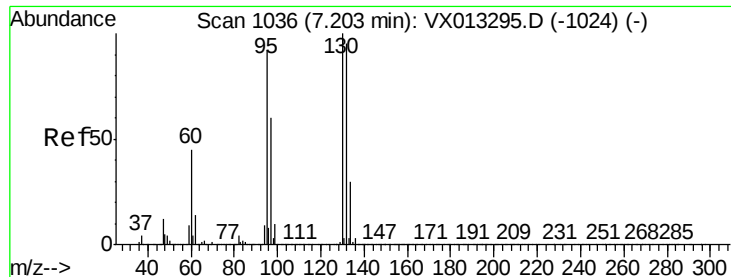
Tot Ion: 83 Resp: 5346
Ion Ratio Lower Upper
83 100
55 91.7 60.3 90.5#
98 29.8 40.3 60.5#



#40
Benzene
Concen: 4.633 ug/l
RT: 6.13 min Scan# 860
Delta R.T. -0.00 min
Lab File: VX013441.D
Acq: 15 Nov 2019 13:16

Tgt Ion: 78 Resp: 142305
Ion Ratio Lower Upper
78 100
77 24.2 19.5 29.3





#44

Trichloroethene

Concen: 0.354 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VX013441.D

Acq: 15 Nov 2019 13:16

Instrument :

MSVOA_X

ClientSampled :

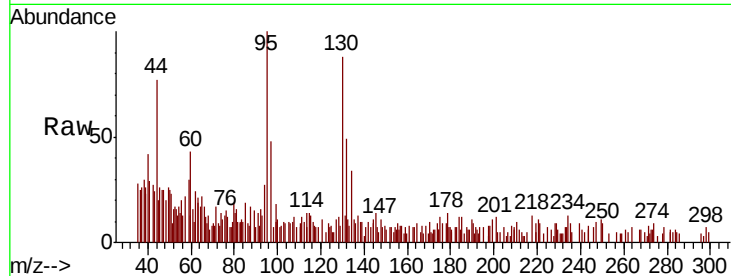
S36-0168

Tot Ion:130 Resp: 2996

Ion Ratio Lower Upper

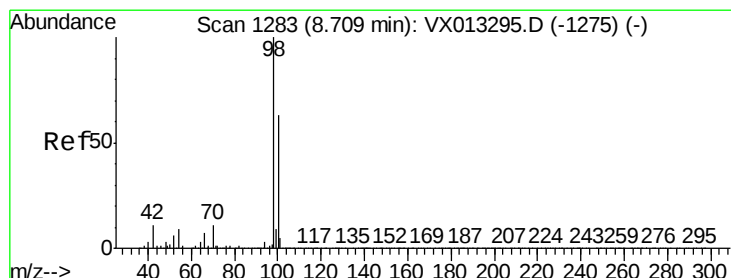
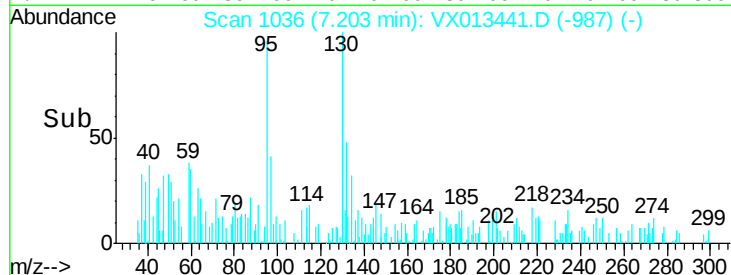
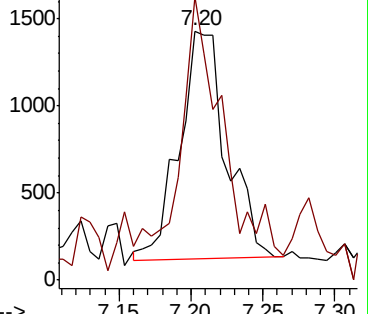
130 100

95 114.3 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 50.527 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013441.D

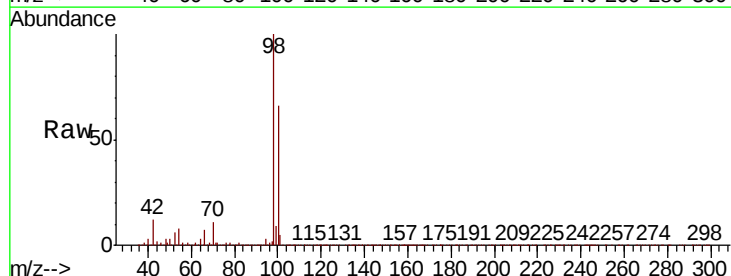
Acq: 15 Nov 2019 13:16

Tgt Ion: 98 Resp: 1373198

Ion Ratio Lower Upper

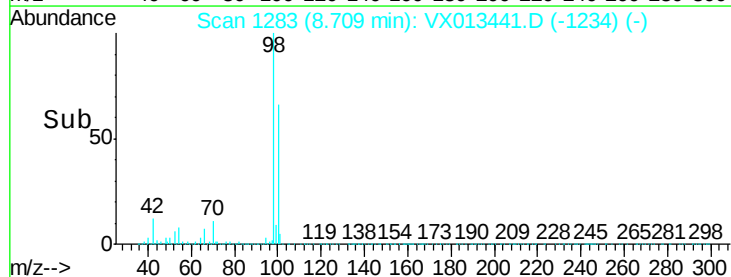
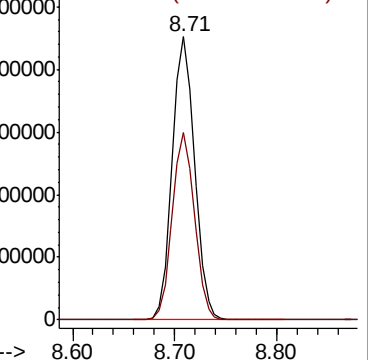
98 100

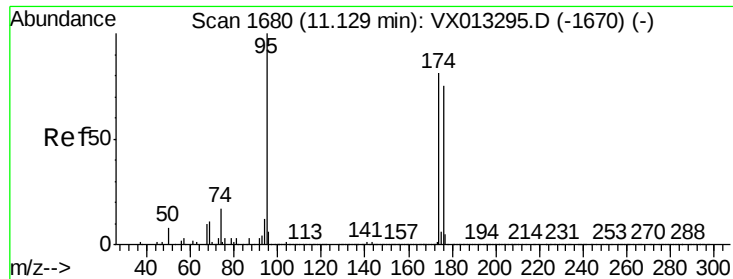
100 65.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.442 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013441.D

Acq: 15 Nov 2019 13:16

Instrument :

MSVOA_X

ClientSampleId :

S36-0168

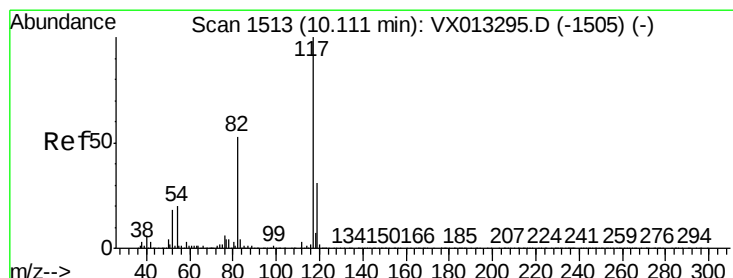
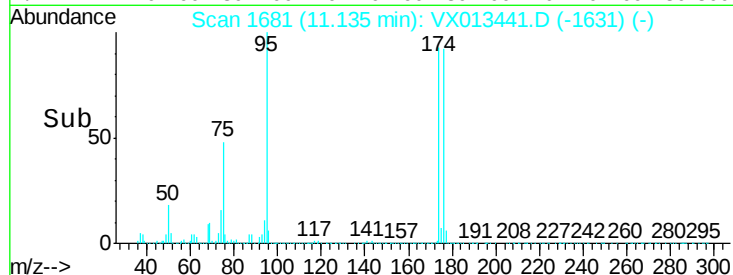
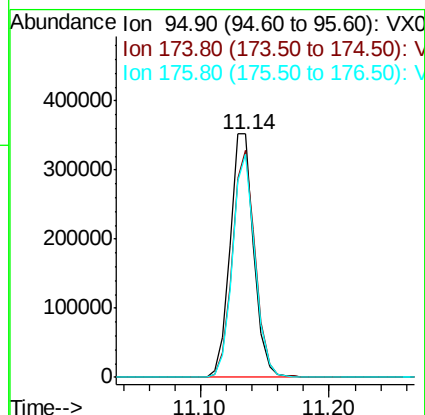
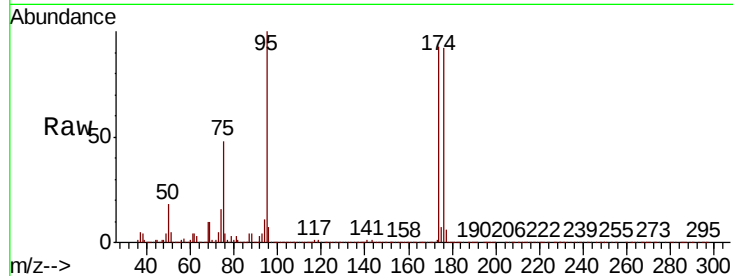
Tot Ion: 95 Resp: 455528

Ion Ratio Lower Upper

95 100

174 89.4 0.0 179.8

176 87.2 0.0 173.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013441.D

Acq: 15 Nov 2019 13:16

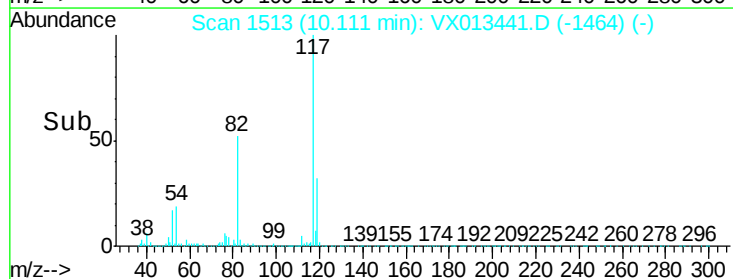
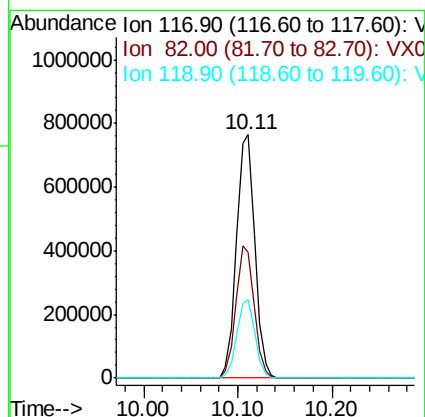
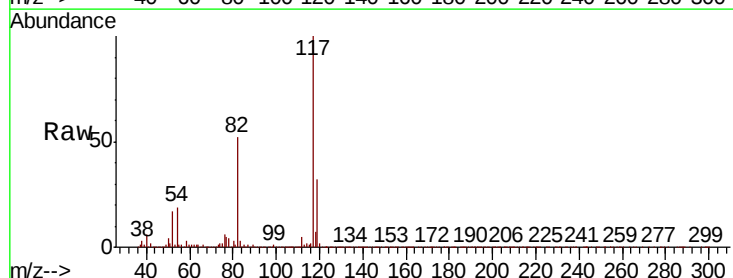
Tgt Ion: 117 Resp: 1033949

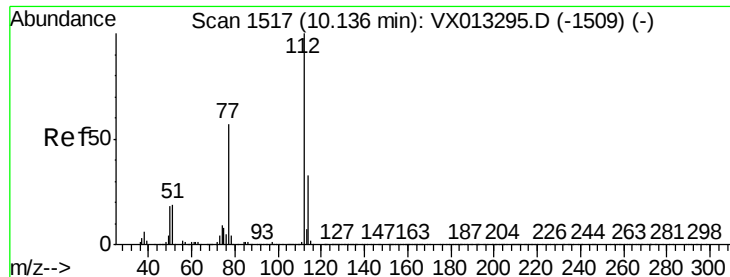
Ion Ratio Lower Upper

117 100

82 51.6 42.6 64.0

119 32.4 24.8 37.2





#65

Chlorobenzene

Concen: 67.719 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VX013441.D

Acq: 15 Nov 2019 13:16

Instrument :

MSVOA_X

ClientSampleId :

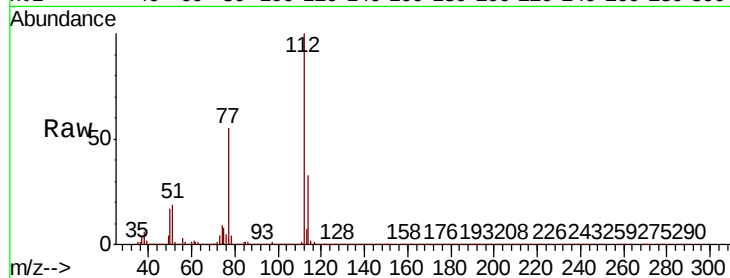
S36-0168

Tot Ion:112 Resp: 1417541

Ion Ratio Lower Upper

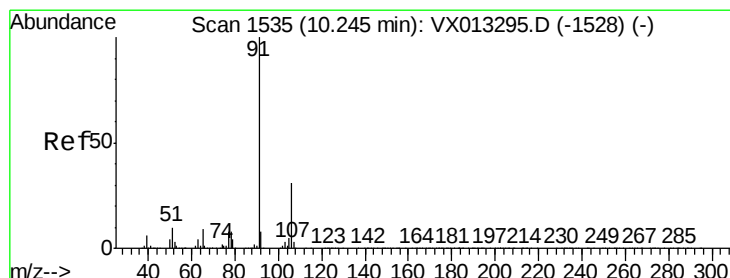
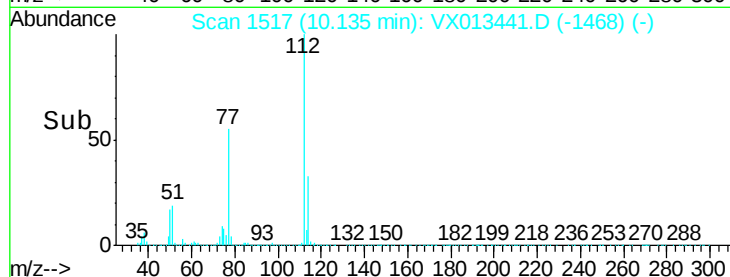
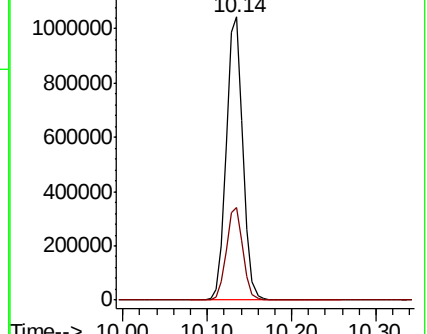
112 100

114 32.6 26.4 39.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#67

Ethyl Benzene

Concen: 0.520 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX013441.D

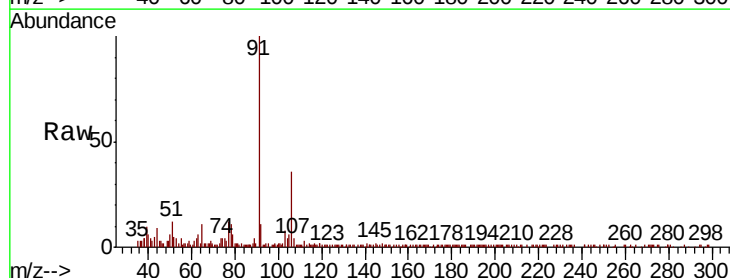
Acq: 15 Nov 2019 13:16

Tgt Ion: 91 Resp: 18784

Ion Ratio Lower Upper

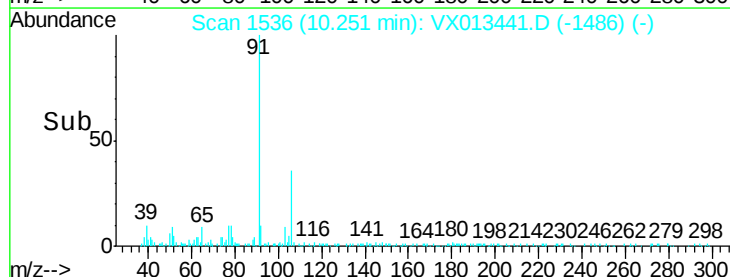
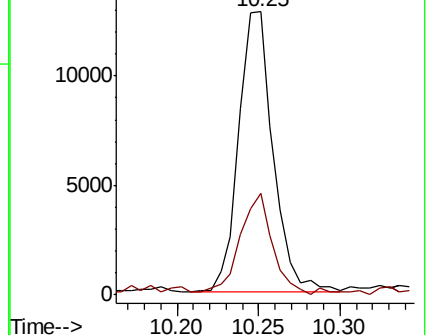
91 100

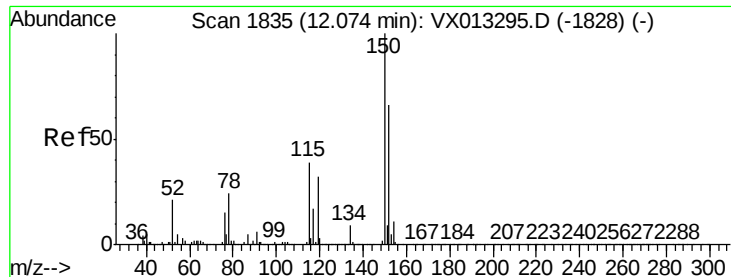
106 35.3 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



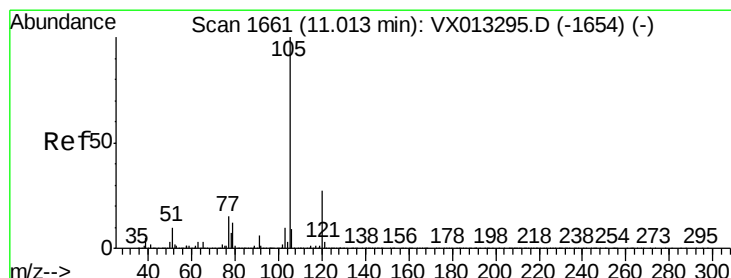
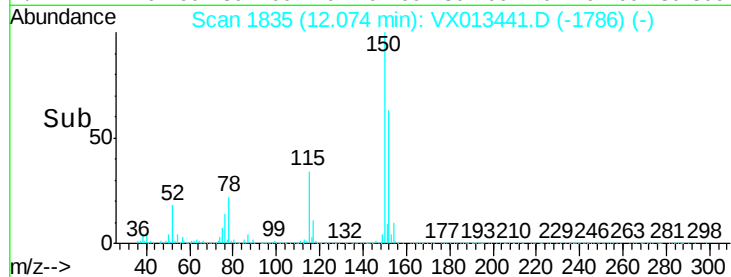
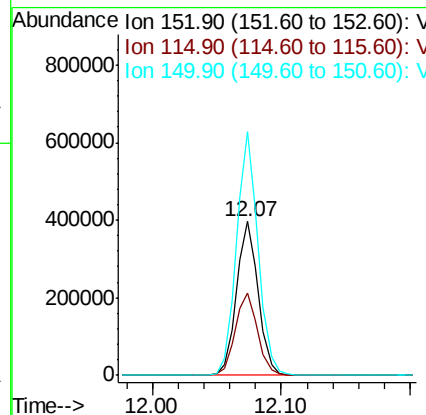
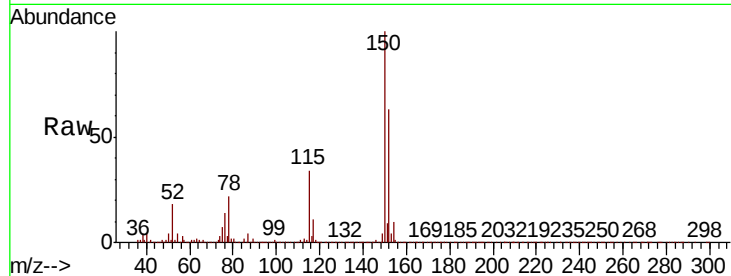


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013441.D
Acq: 15 Nov 2019 13:16

Instrument :
MSVOA_X
ClientSampleId :
S36-0168

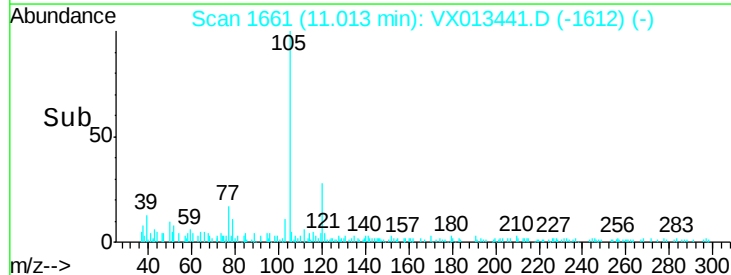
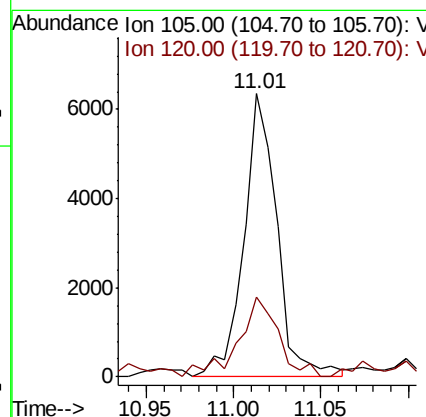
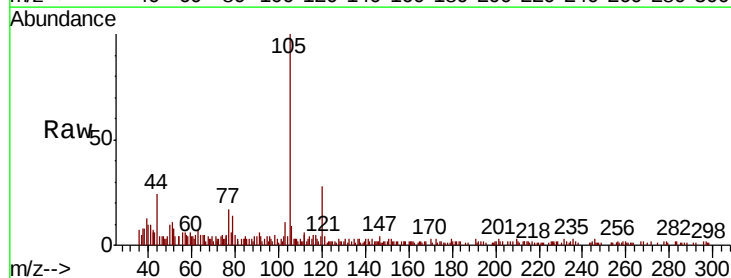
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.0	39.5	118.3
150	157.5	0.0	344.4

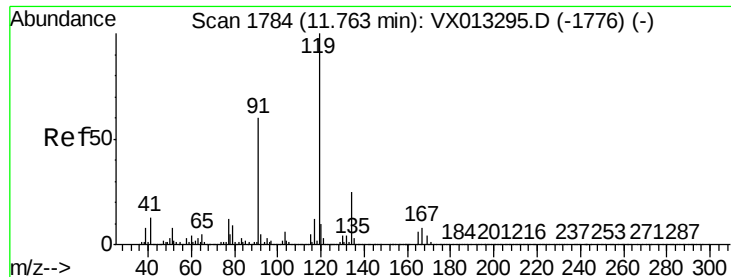


#73

Isopropylbenzene
Concen: 0.271 ug/l
RT: 11.01 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VX013441.D
Acq: 15 Nov 2019 13:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	34.1	13.5	40.5





#83

tert-Butylbenzene

Concen: 0.324 ug/l

RT: 11.76 min Scan# 1784

Delta R.T. -0.00 min

Lab File: VX013441.D

Acq: 15 Nov 2019 13:16

Instrument :

MSVOA_X

ClientSampleId :

S36-0168

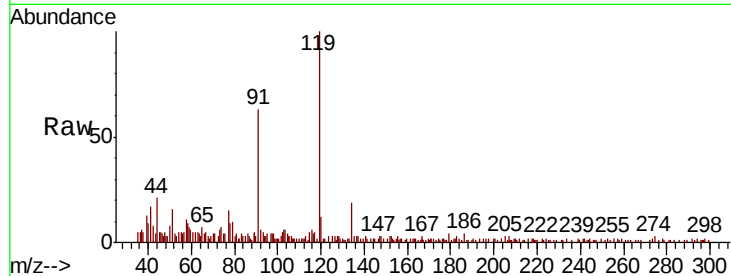
Tot Ion:119 Resp: 8399

Ion Ratio Lower Upper

119 100

91 67.6 26.9 80.7

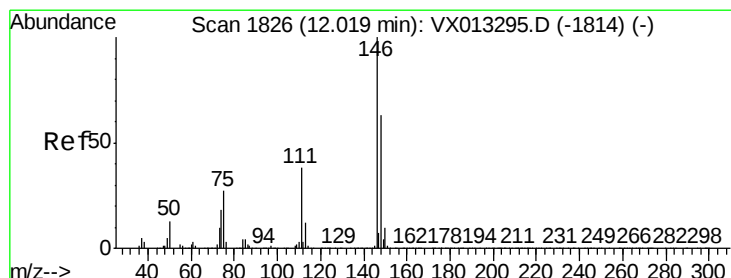
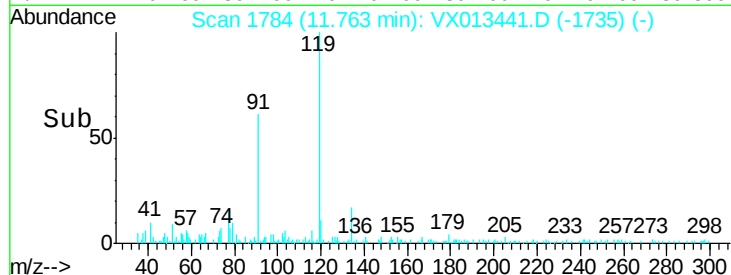
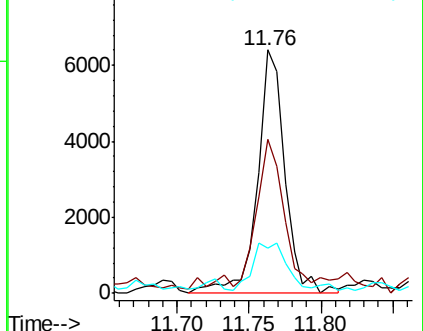
134 24.1 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#87

1,3-Dichlorobenzene

Concen: 0.305 ug/l

RT: 12.02 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VX013441.D

Acq: 15 Nov 2019 13:16

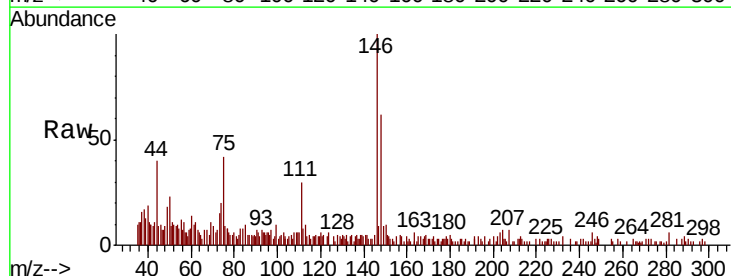
Tgt Ion:146 Resp: 4475

Ion Ratio Lower Upper

146 100

111 39.6 18.9 56.5

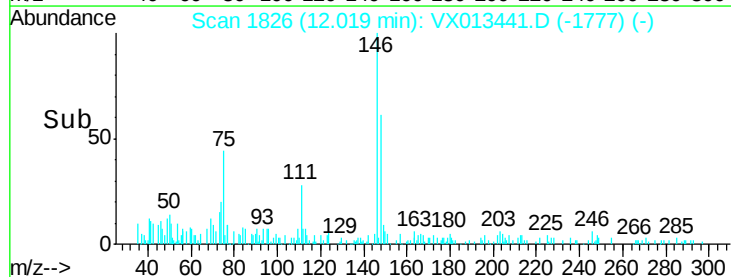
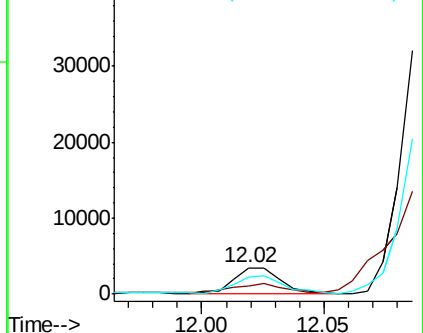
148 76.6 31.9 95.7

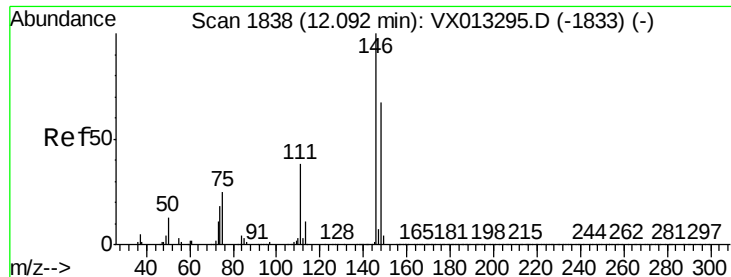


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 3.736 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VX013441.D

Acq: 15 Nov 2019 13:16

Instrument :

MSVOA_X

ClientSampleId :

S36-0168

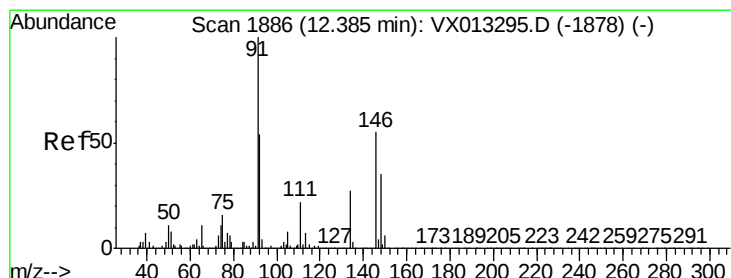
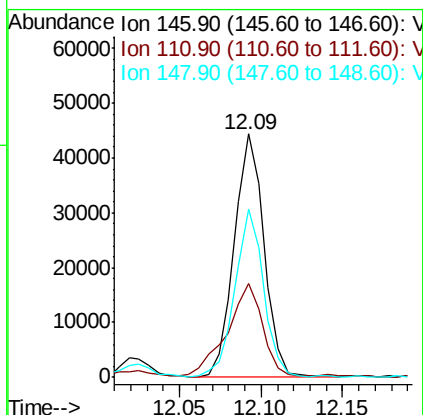
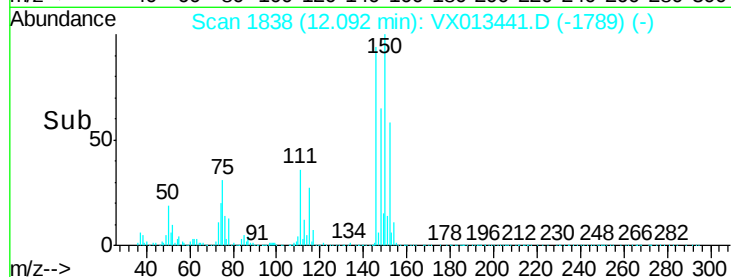
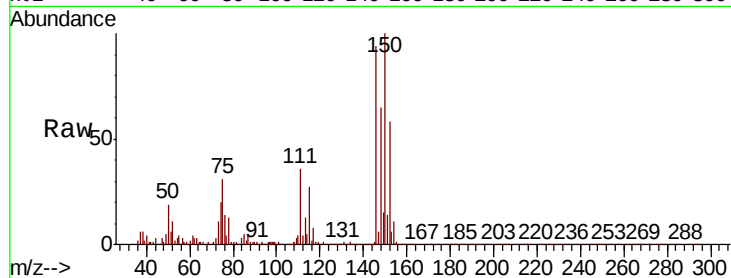
Tot Ion:146 Resp: 55894

Ion Ratio Lower Upper

146 100

111 45.3 18.8 56.4

148 67.8 32.4 97.0



#91

1,2-Dichlorobenzene

Concen: 0.273 ug/l

RT: 12.39 min Scan# 1887

Delta R.T. 0.01 min

Lab File: VX013441.D

Acq: 15 Nov 2019 13:16

Tgt Ion:146 Resp: 4003

Ion Ratio Lower Upper

146 100

111 39.8 20.1 60.2

148 60.8 32.0 96.0

