

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070819\
 Data File : VX010693.D
 Acq On : 08 Jul 2019 14:15
 Operator : JC/SP
 Sample : K3669-06DL 4X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0533-190701DL

Quant Time: Jul 09 01:08:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	232042	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	358616	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	321052	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	144287	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	117208	53.87	ug/l	0.00
Spiked Amount			Recovery	=	107.74%	
35) Dibromofluoromethane	5.50	113	110958	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
50) Toluene-d8	8.71	98	424222	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
62) 4-Bromofluorobenzene	11.13	95	139227	45.94	ug/l	0.00
Spiked Amount			Recovery	=	91.88%	

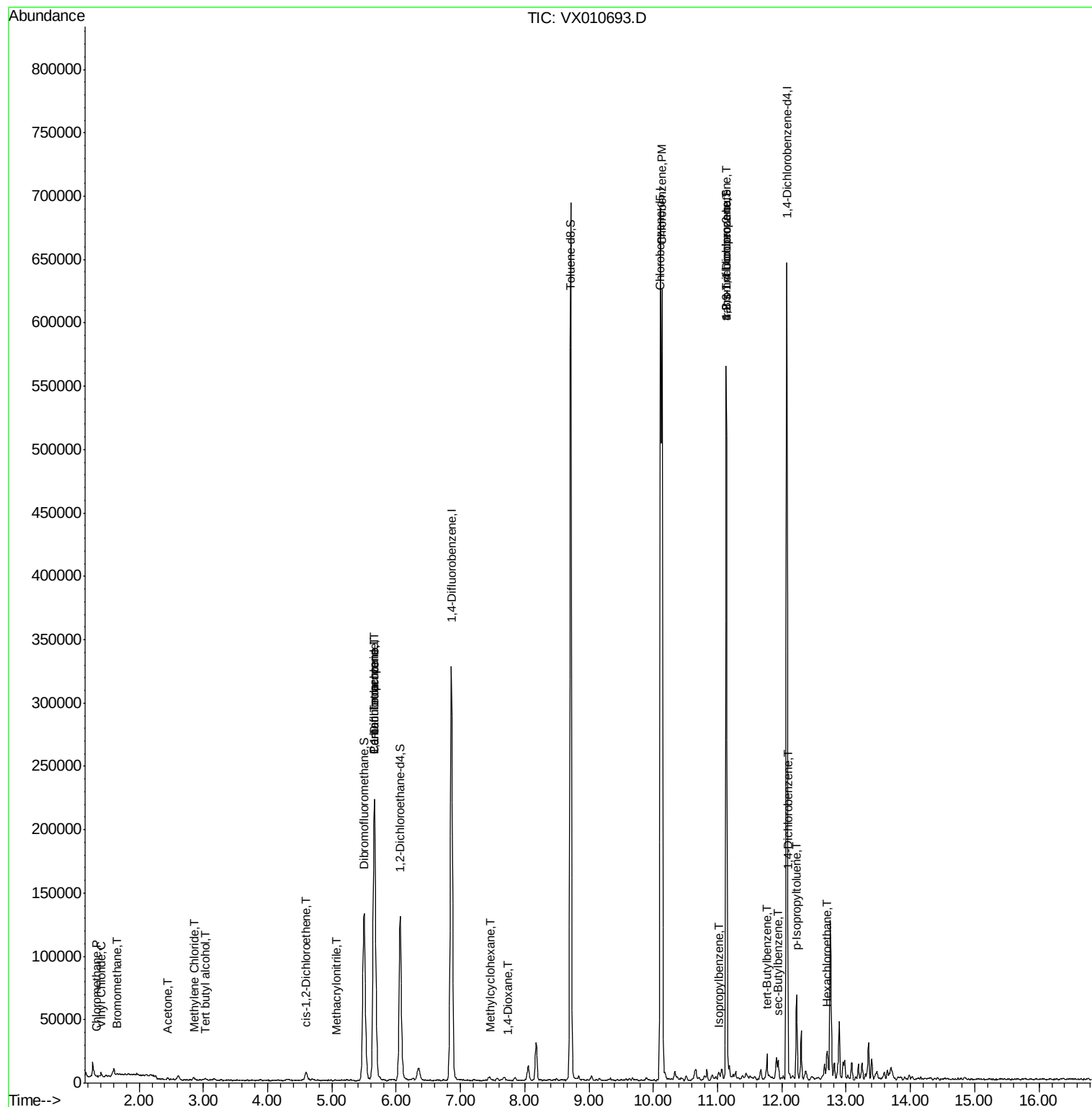
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	600	0.319	ug/l	100
4) Vinyl Chloride	1.40	62	1678	0.816	ug/l #	85
5) Bromomethane	1.65	94	368	0.367	ug/l #	60
11) Tert butyl alcohol	3.03	59	1131	1.987	ug/l #	74
16) Acetone	2.45	43	2154	1.976	ug/l	97
20) Methylene Chloride	2.86	84	531	0.237	ug/l #	60
27) cis-1,2-Dichloroethene	4.59	96	4422	1.769	ug/l	91
36) 1,1-Dichloropropene	5.66	75	14552	5.106	ug/l #	48
38) Carbon Tetrachloride	5.67	117	20838	6.753	ug/l #	14
39) Methylcyclohexane	7.46	83	965	0.258	ug/l #	90
41) Methacrylonitrile	5.07	41	399	0.248	ug/l #	51
49) 1,4-Dioxane	7.74	88	21	0.323	ug/l #	1
65) Chlorobenzene	10.14	112	279957	42.952	ug/l	100
73) Isopropylbenzene	11.02	105	3154	0.322	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	69230	26.330	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	69230	61.426	ug/l #	16
83) tert-Butylbenzene	11.77	119	6983	0.863	ug/l	89
85) sec-Butylbenzene	11.94	105	6547	0.689	ug/l #	55
86) p-Isopropyltoluene	12.23	119	28286	3.218	ug/l	95
88) 1,4-Dichlorobenzene	12.10	146	1019	0.210	ug/l #	1
90) Hexachloroethane	12.70	117	5051	3.324	ug/l #	5

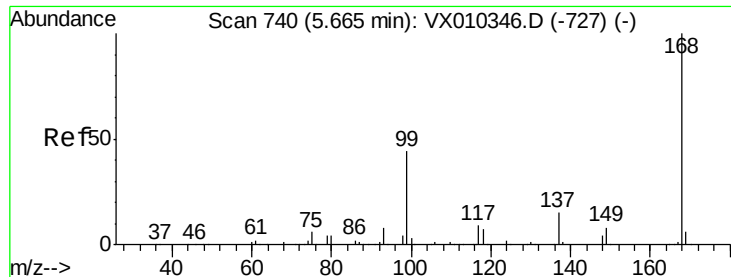
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010693.D

Acq: 08 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

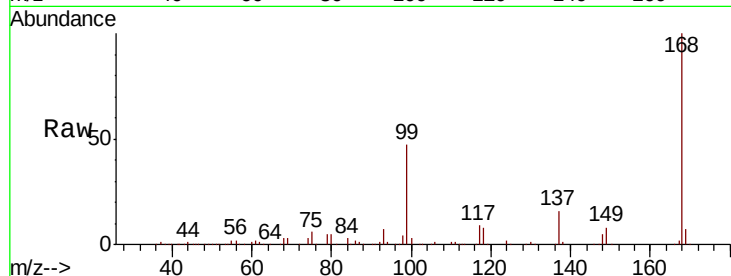
DUP-0533-190701DL

Tot Ion:168 Resp: 232042

Ion Ratio Lower Upper

168 100

99 46.9 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

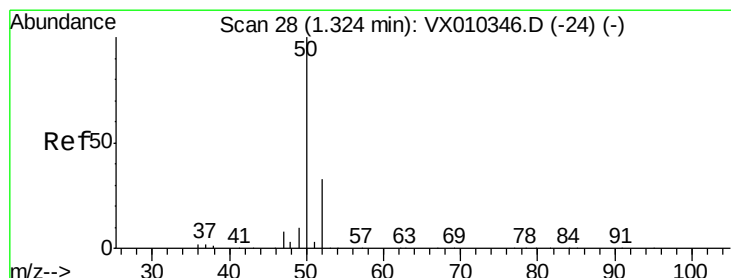
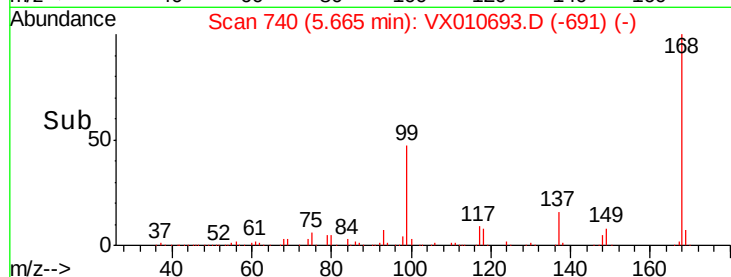
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.319 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010693.D

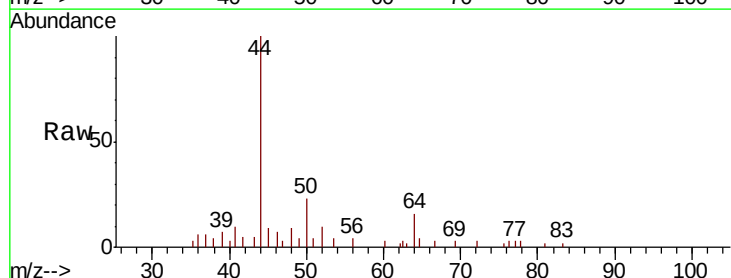
Acq: 08 Jul 2019 14:15

Tgt Ion: 50 Resp: 600

Ion Ratio Lower Upper

50 100

52 33.3 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

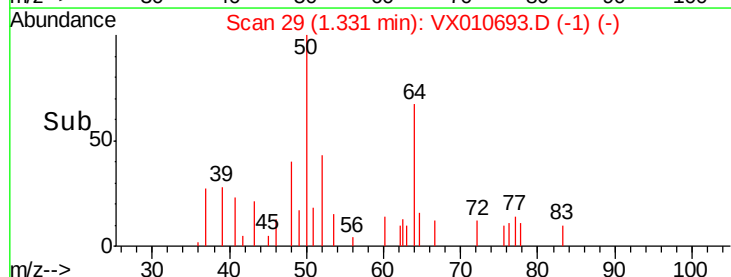
300

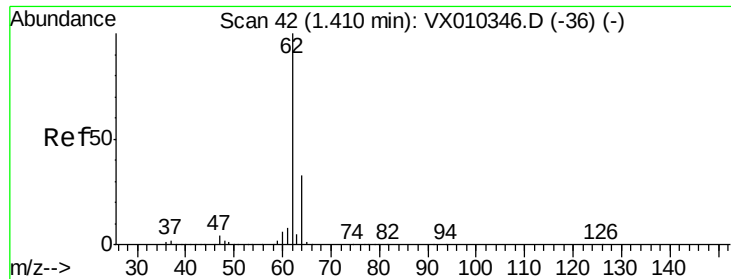
200

100

0

Time--> 1.28 1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 0.816 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX010693.D

Acq: 08 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

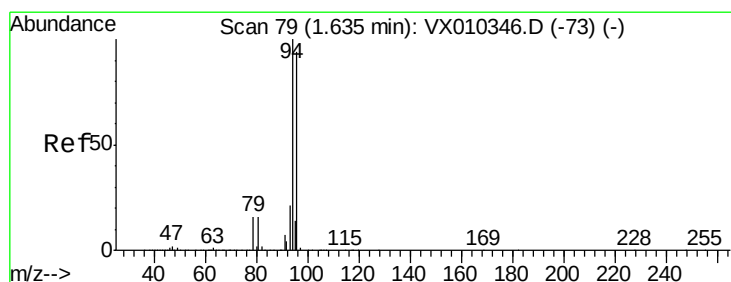
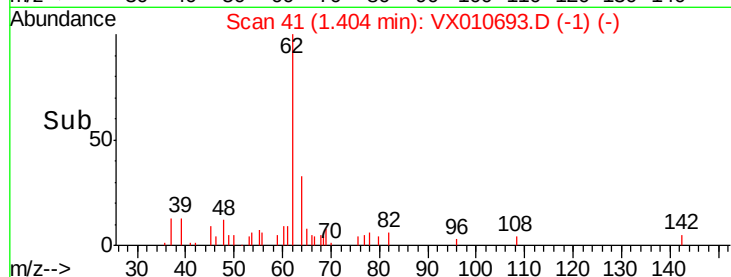
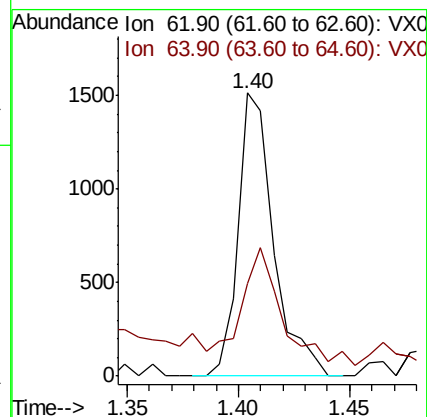
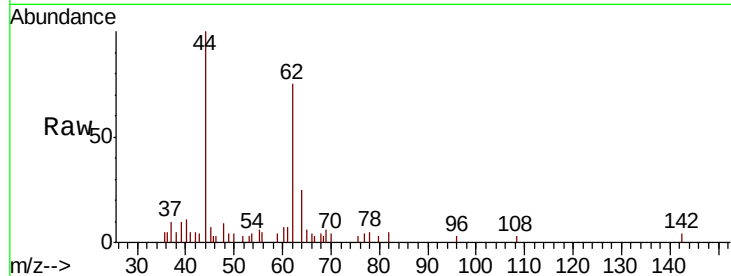
DUP-0533-190701DL

Tot Ion: 62 Resp: 1678

Ion Ratio Lower Upper

62 100

64 24.1 26.2 39.4#



#5

Bromomethane

Concen: 0.367 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010693.D

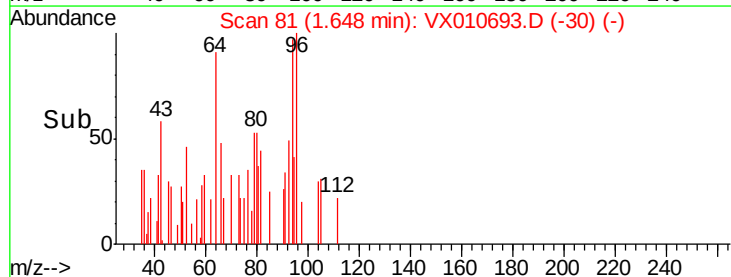
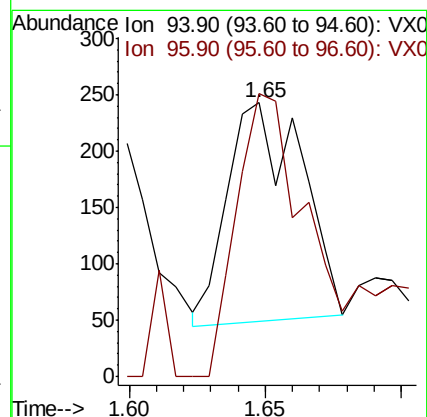
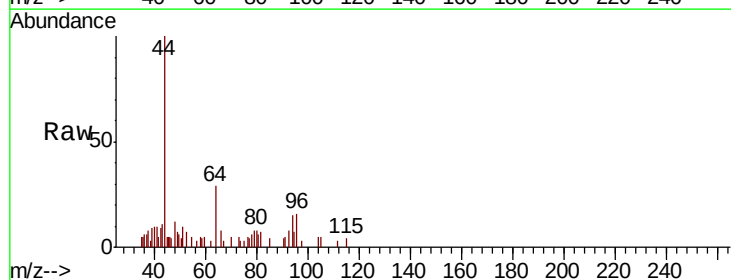
Acq: 08 Jul 2019 14:15

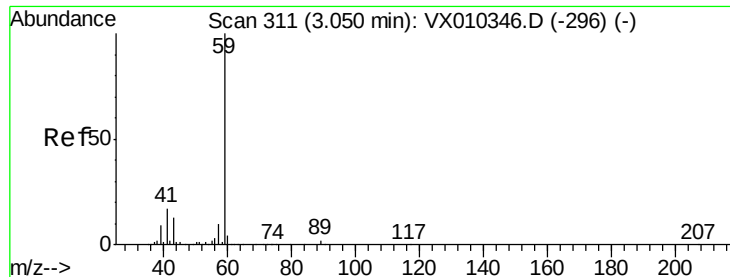
Tgt Ion: 94 Resp: 368

Ion Ratio Lower Upper

94 100

96 133.5 75.5 113.3#



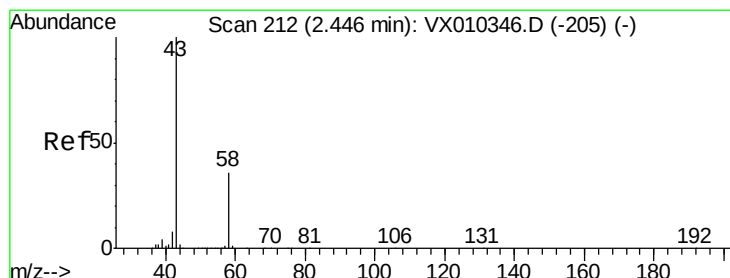
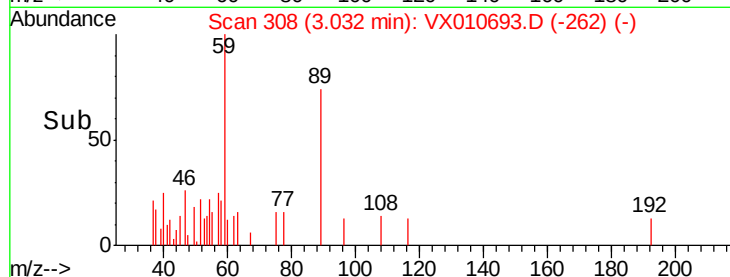
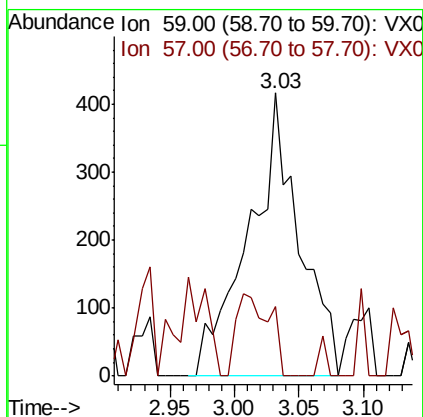
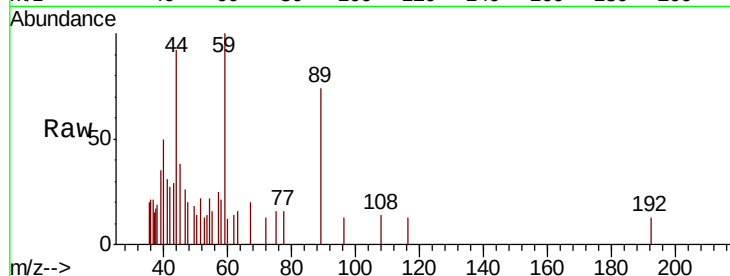


#11

Tert butyl alcohol
 Concen: 1.987 ug/l
 RT: 3.03 min Scan# 308
 Delta R.T. -0.02 min
 Lab File: VX010693.D
 Acq: 08 Jul 2019 14:15

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0533-190701DL

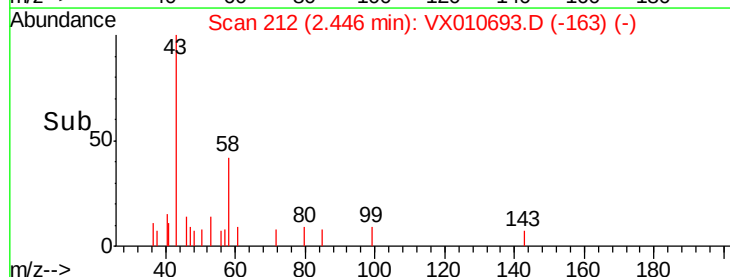
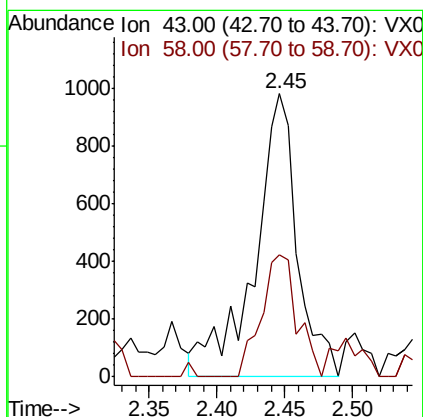
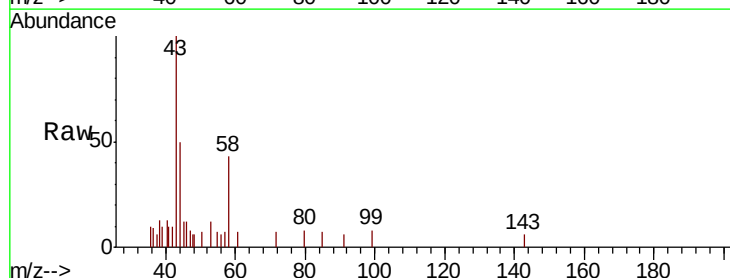
Tot Ion: 59 Resp: 1131
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.7 11.5#

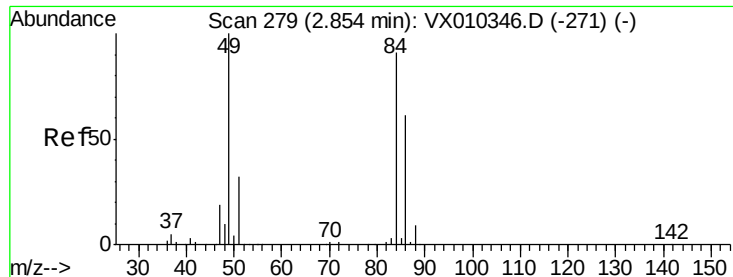


#16

Acetone
 Concen: 1.976 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VX010693.D
 Acq: 08 Jul 2019 14:15

Tgt Ion: 43 Resp: 2154
 Ion Ratio Lower Upper
 43 100
 58 37.8 28.9 43.3

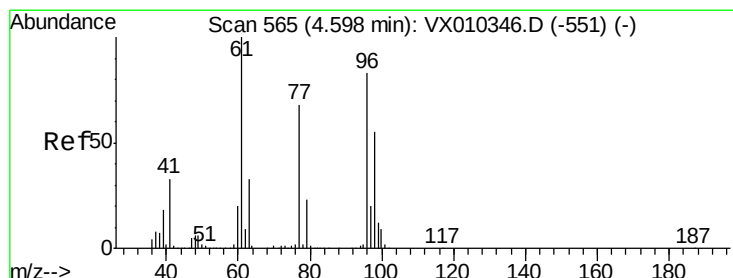
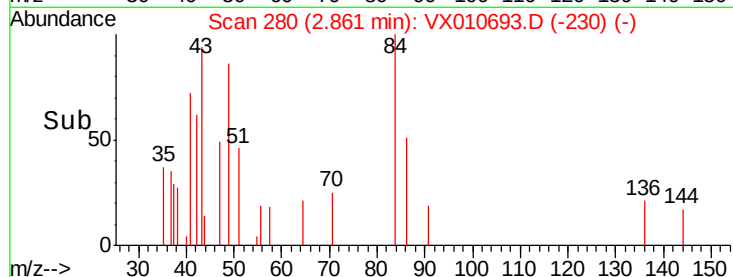
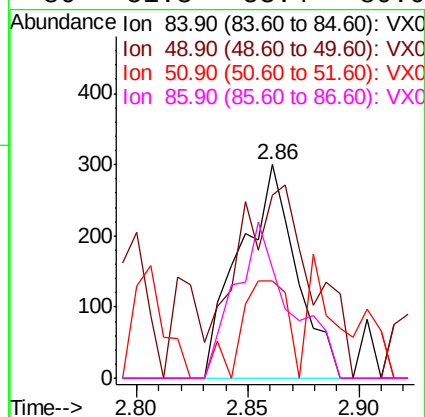
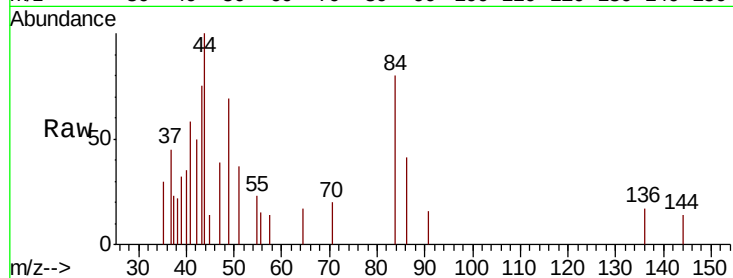




#20
Methylene Chloride
Concen: 0.237 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010693.D
Acq: 08 Jul 2019 14:15

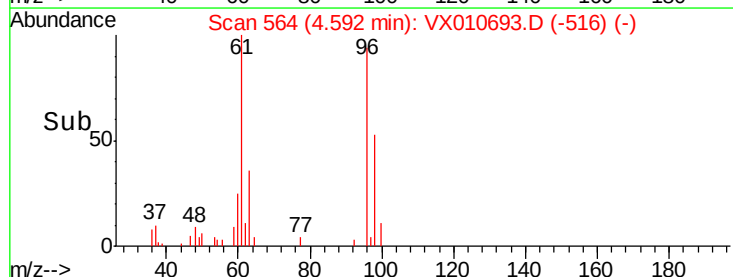
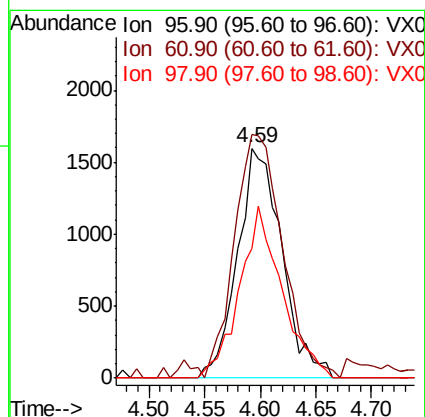
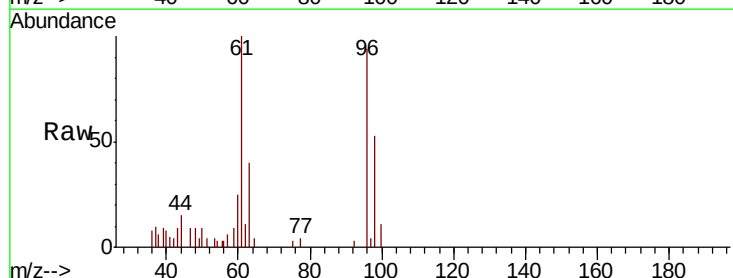
Instrument :
MSVOA_X
ClientSampleId :
DUP-0533-190701DL

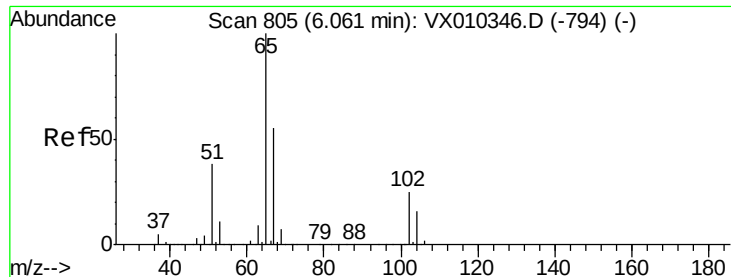
Tot Ion: 84 Resp: 531
Ion Ratio Lower Upper
84 100
49 46.3 87.5 131.3#
51 45.7 27.7 41.5#
86 51.3 53.4 80.0#



#27
cis-1,2-Dichloroethene
Concen: 1.769 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VX010693.D
Acq: 08 Jul 2019 14:15

Tgt Ion: 96 Resp: 4422
Ion Ratio Lower Upper
96 100
61 115.4 0.0 251.8
98 71.0 0.0 129.4

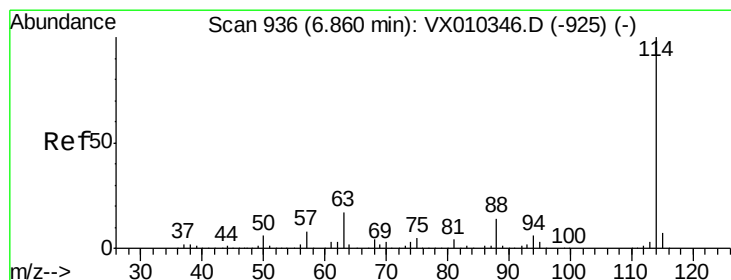
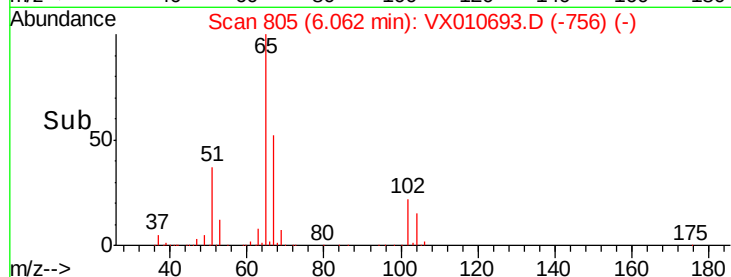
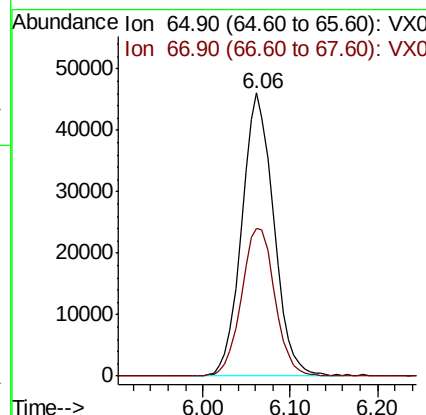
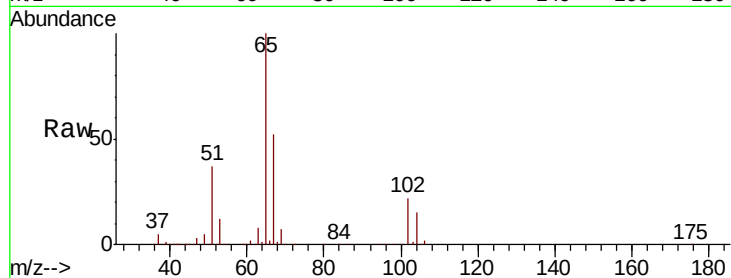




#33
 1,2-Dichloroethane-d4
 Concen: 53.873 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010693.D
 Acq: 08 Jul 2019 14:15

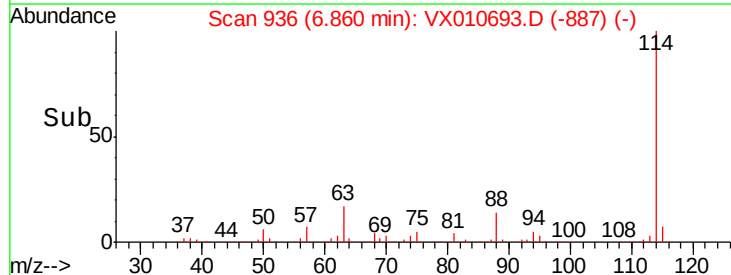
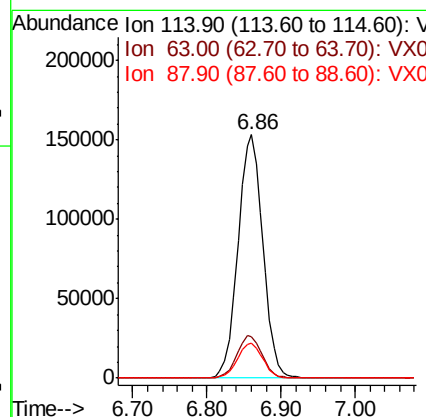
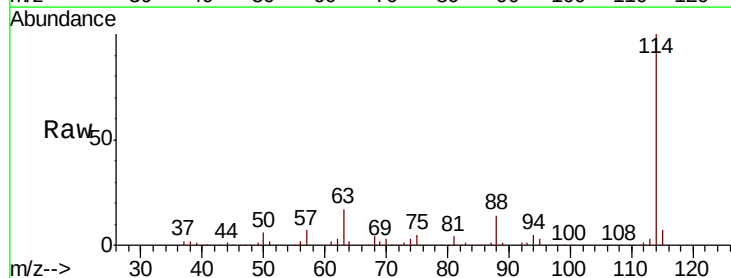
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0533-190701DL

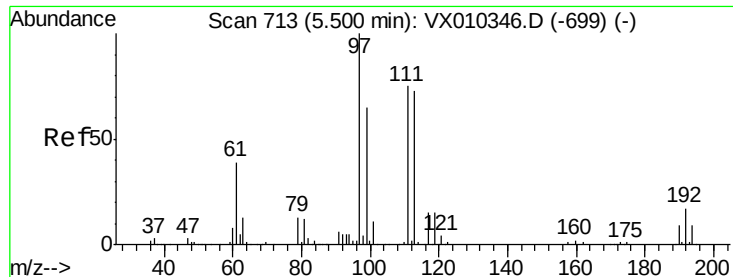
Tot Ion: 65 Resp: 117208
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010693.D
 Acq: 08 Jul 2019 14:15

Tgt Ion: 114 Resp: 358616
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 33.8
 88 14.3 0.0 27.6

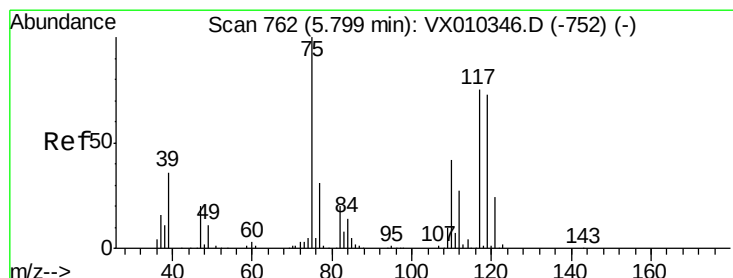
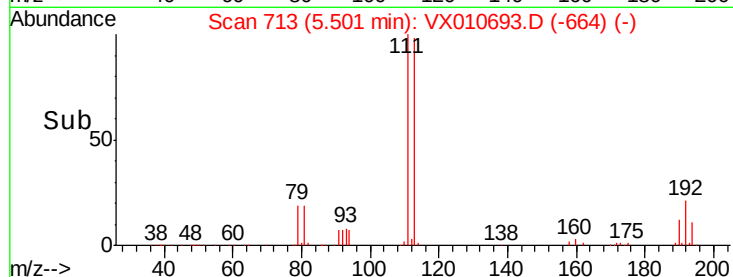
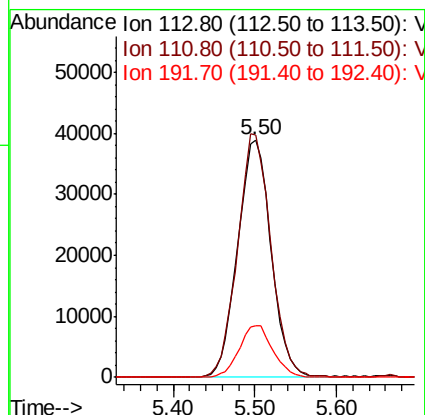
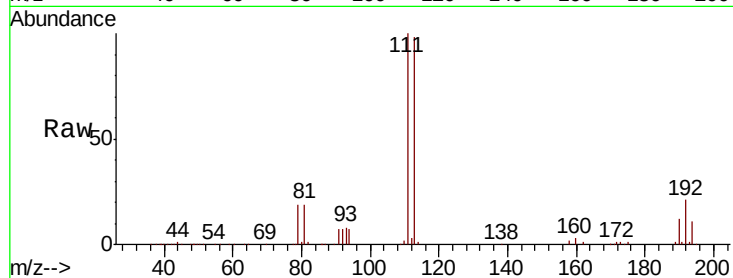




#35
 Dibromofluoromethane
 Concen: 50.570 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010693.D
 Acq: 08 Jul 2019 14:15

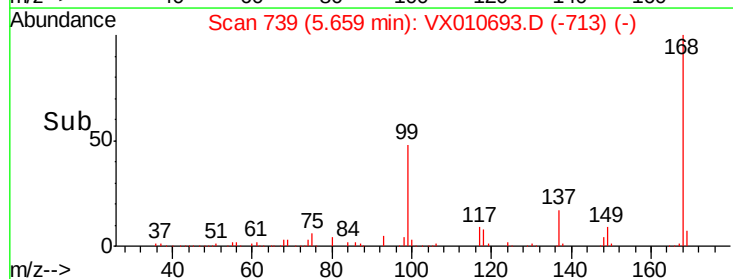
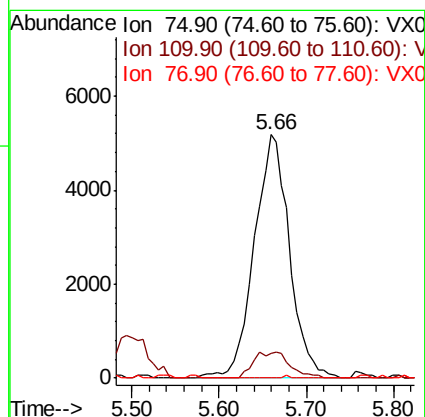
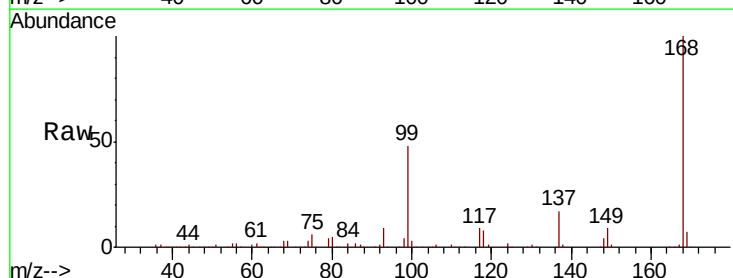
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 ClientSampleId :
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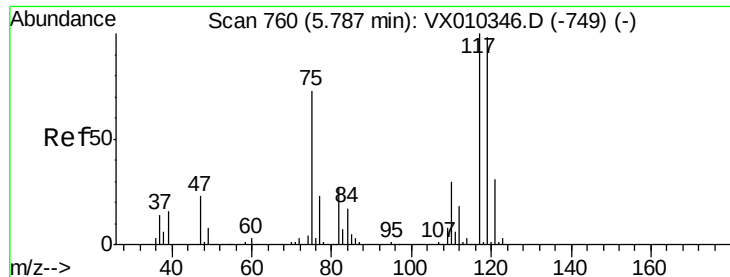
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.2	121.8
192	21.9	18.6	27.8



#36
 1,1-Dichloropropene
 Concen: 5.106 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010693.D
 Acq: 08 Jul 2019 14:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.1	20.8	62.2#
77	0.0	25.4	38.0#





#38

Carbon Tetrachloride

Concen: 6.753 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010693.D

Acq: 08 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

DUP-0533-190701DL

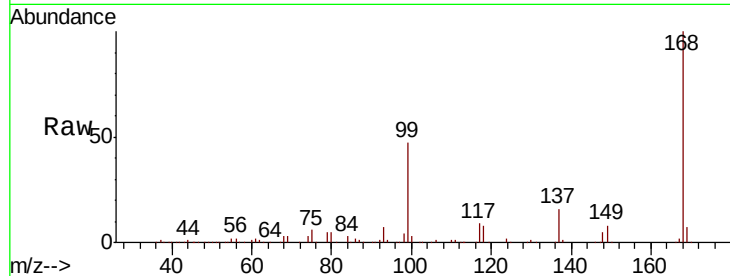
Tot Ion:117 Resp: 20838

Ion Ratio Lower Upper

117 100

119 3.9 78.2 117.4#

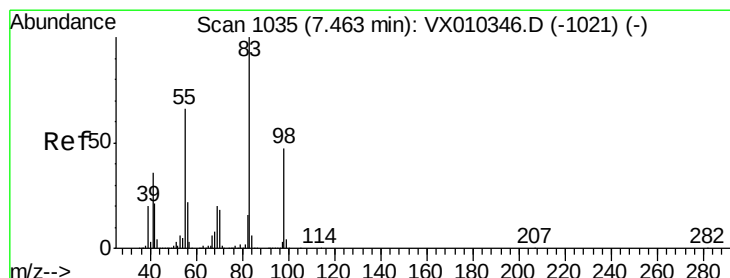
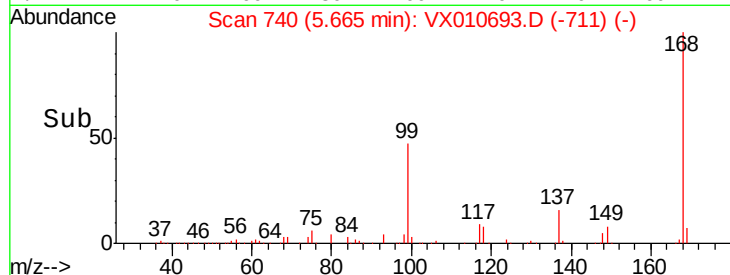
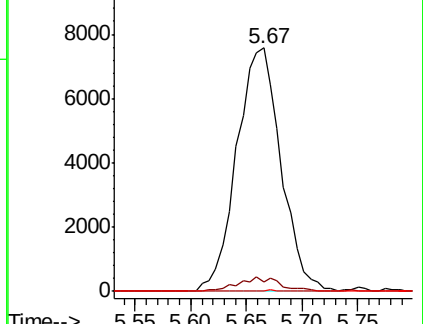
121 0.0 24.7 37.1#



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



#39

Methylcyclohexane

Concen: 0.258 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VX010693.D

Acq: 08 Jul 2019 14:15

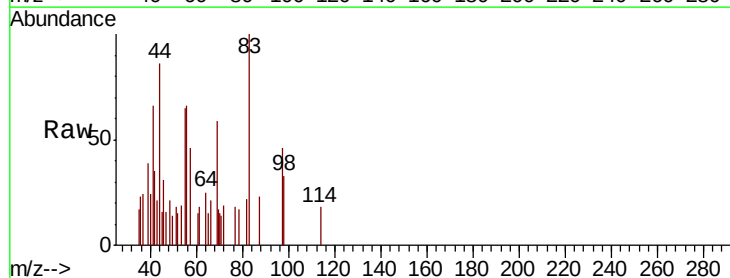
Tgt Ion: 83 Resp: 965

Ion Ratio Lower Upper

83 100

55 64.6 53.0 79.6

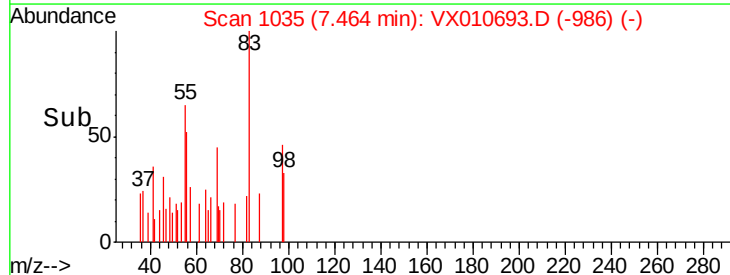
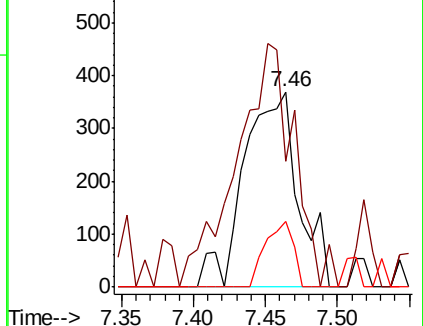
98 33.2 37.8 56.8#

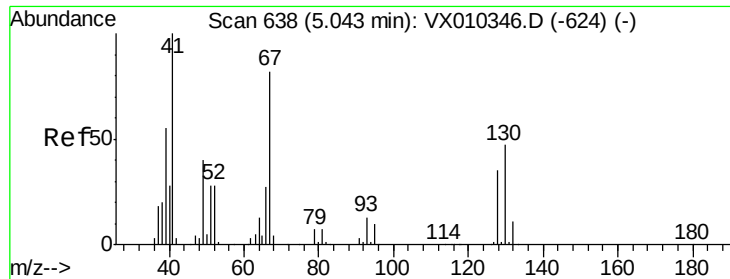


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

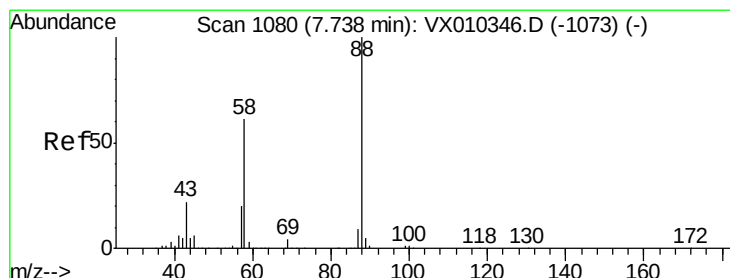
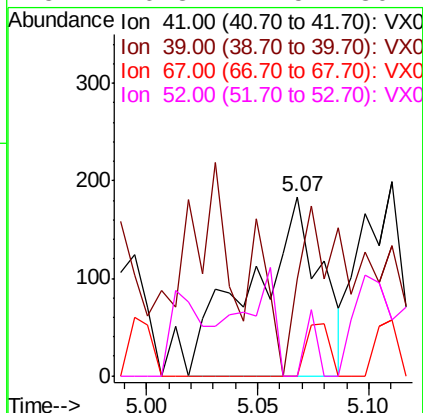
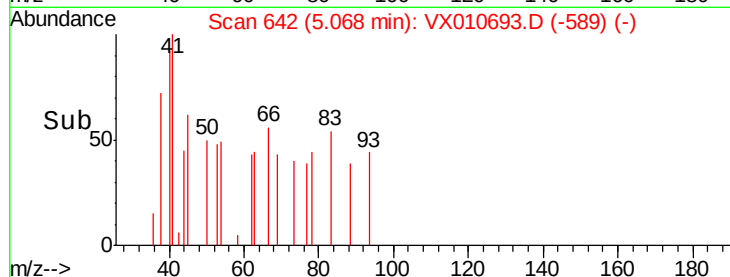
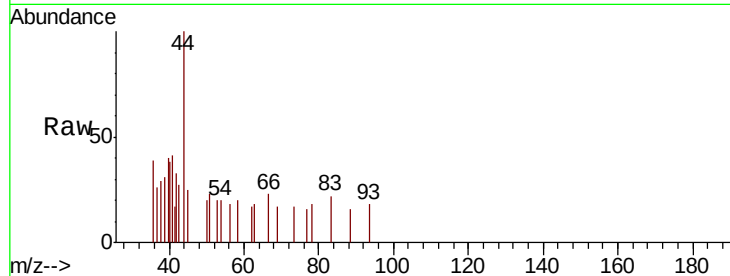




#41
Methacrylonitrile
Concen: 0.248 ug/l
RT: 5.07 min Scan# 642
Delta R.T. 0.02 min
Lab File: VX010693.D
Acq: 08 Jul 2019 14:15

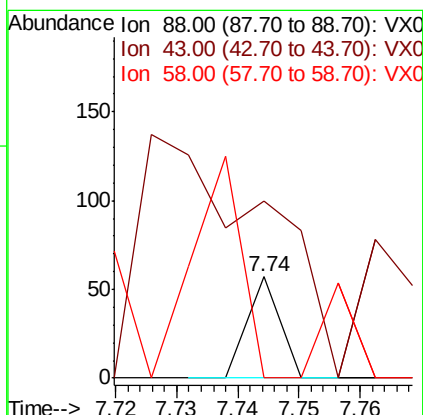
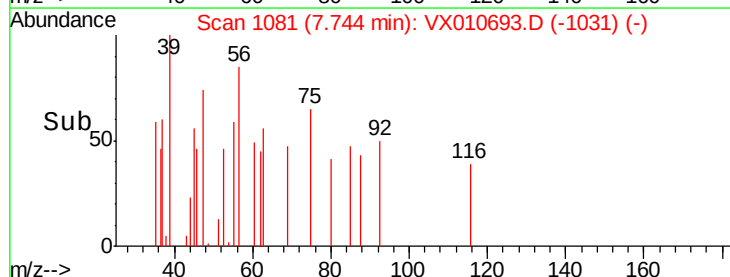
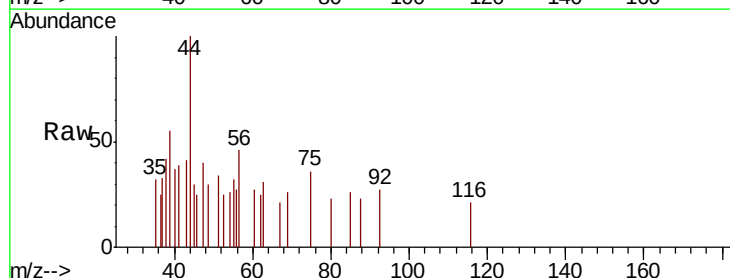
Instrument :
MSVOA_X
ClientSampleId :
DUP-0533-190701DL

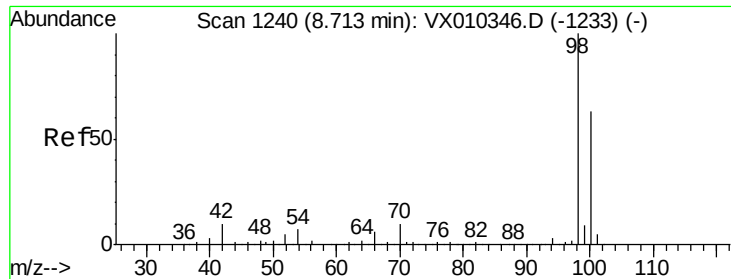
Tot Ion: 41 Resp: 399
Ion Ratio Lower Upper
41 100
39 55.9 43.8 65.8
67 9.8 66.6 100.0#
52 6.3 24.5 36.7#



#49
1,4-Dioxane
Concen: 0.323 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX010693.D
Acq: 08 Jul 2019 14:15

Tgt Ion: 88 Resp: 21
Ion Ratio Lower Upper
88 100
43 923.8 20.2 30.2#
58 328.6 49.5 74.3#





#50

Toluene-d8

Concen: 50.537 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010693.D

Acq: 08 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

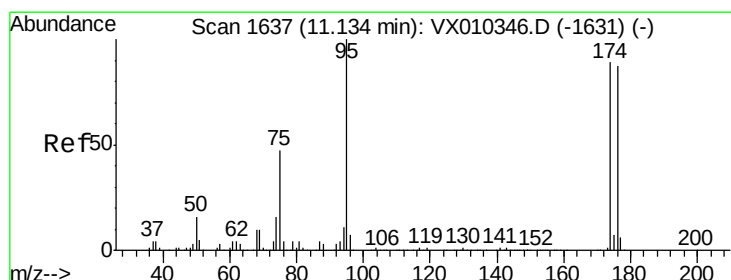
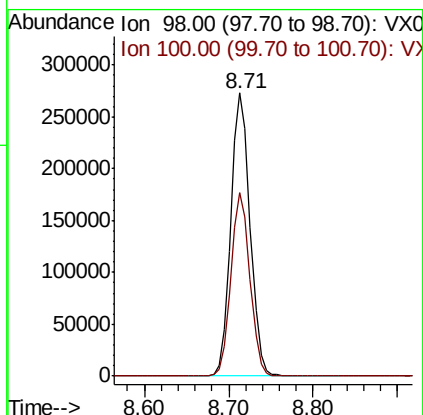
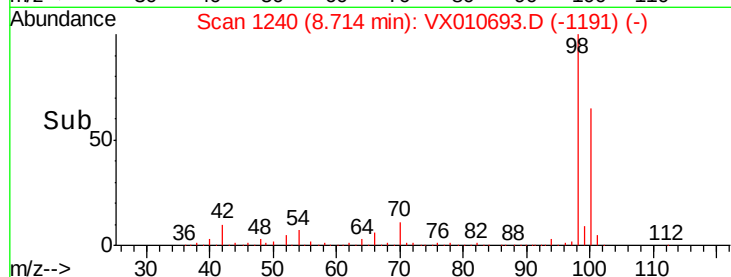
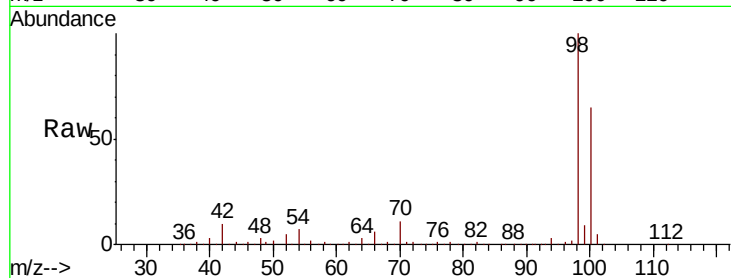
DUP-0533-190701DL

Tot Ion: 98 Resp: 424222

Ion Ratio Lower Upper

98 100

100 63.9 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 45.940 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010693.D

Acq: 08 Jul 2019 14:15

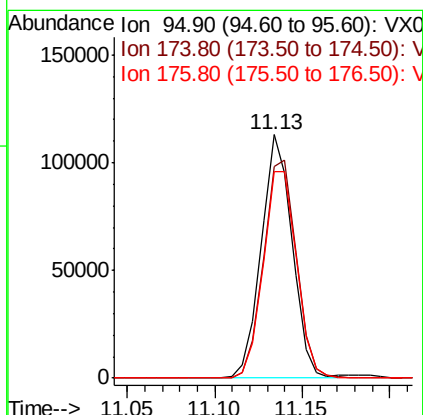
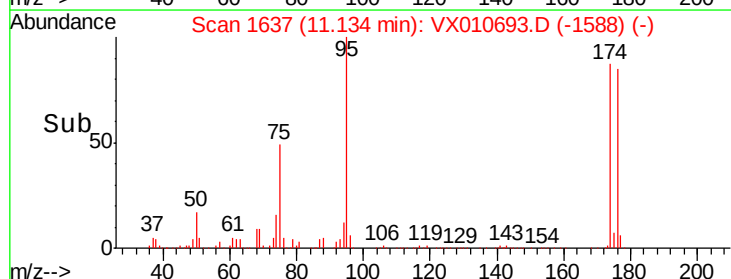
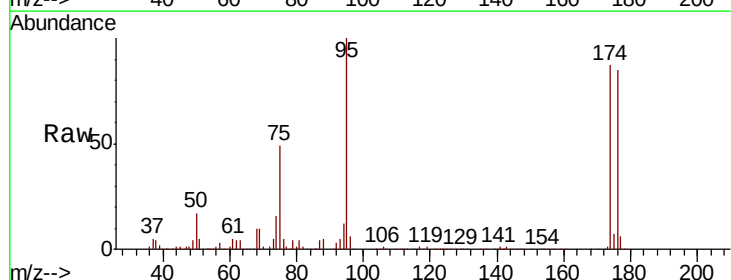
Tgt Ion: 95 Resp: 139227

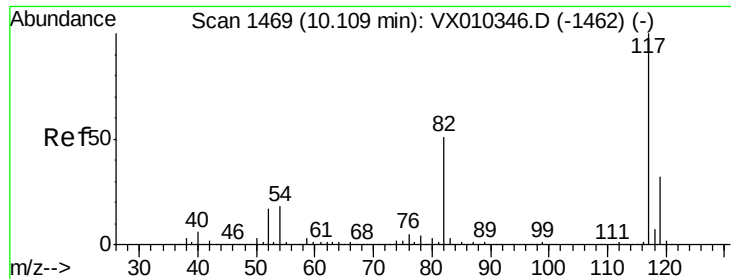
Ion Ratio Lower Upper

95 100

174 95.1 0.0 187.6

176 91.7 0.0 184.0

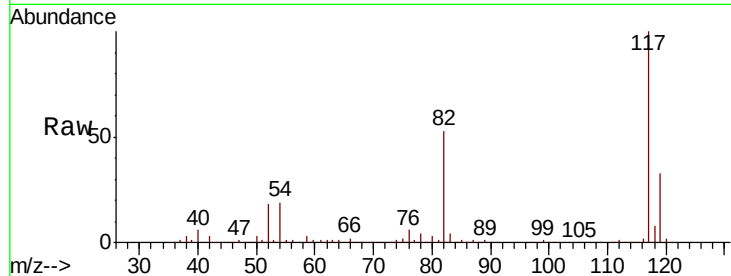




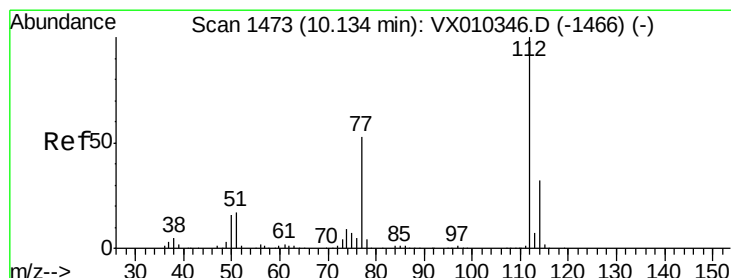
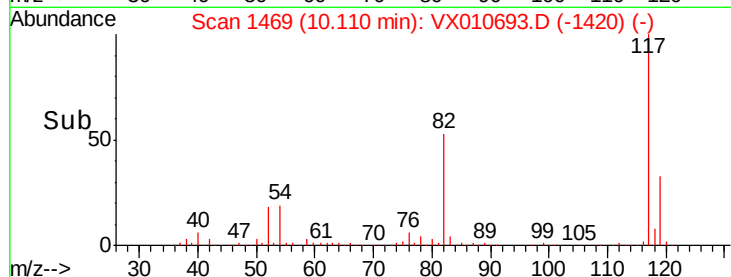
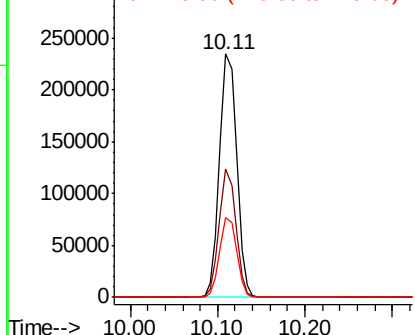
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010693.D
Acq: 08 Jul 2019 14:15

Instrument :
MSVOA_X
ClientSampleId :
DUP-0533-190701DL

Tot Ion:117 Resp: 321052
Ion Ratio Lower Upper
117 100
82 52.8 41.2 61.8
119 32.7 25.5 38.3

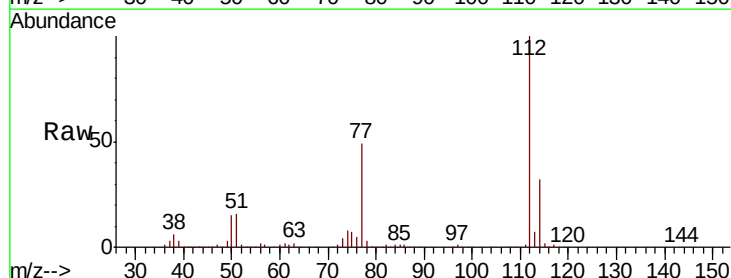


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

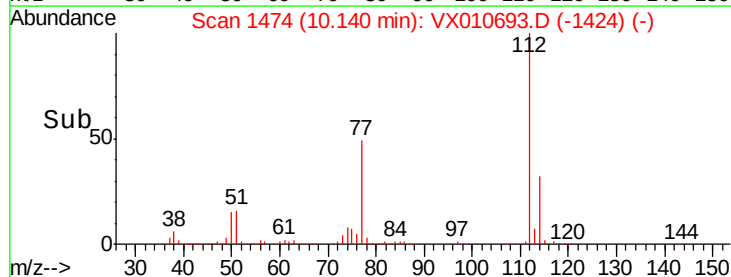
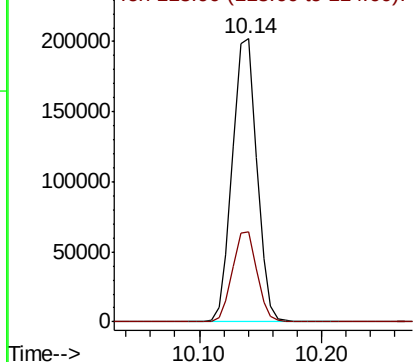


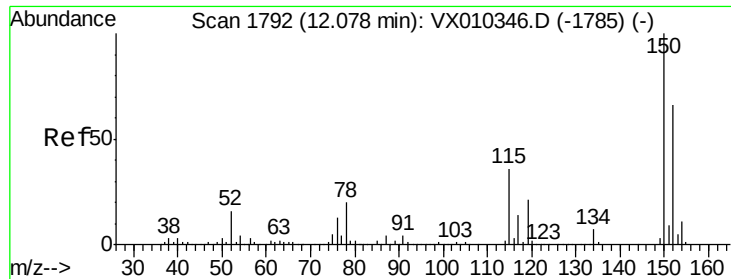
#65
Chlorobenzene
Concen: 42.952 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX010693.D
Acq: 08 Jul 2019 14:15

Tgt Ion:112 Resp: 279957
Ion Ratio Lower Upper
112 100
114 31.9 25.4 38.2



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010693.D

Acq: 08 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

DUP-0533-190701DL

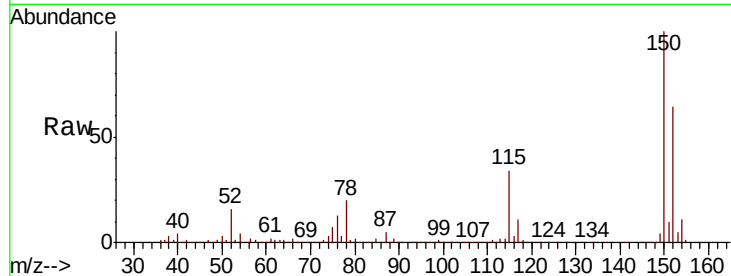
Tot Ion:152 Resp: 144287

Ion Ratio Lower Upper

152 100

115 54.4 38.6 115.7

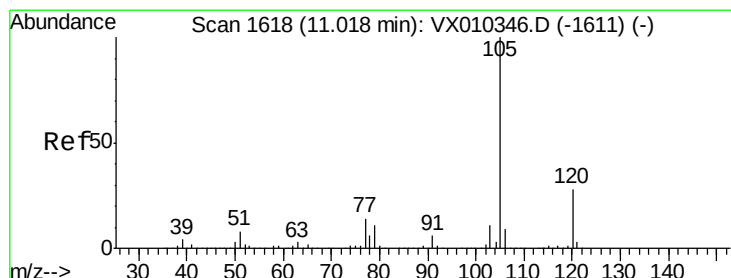
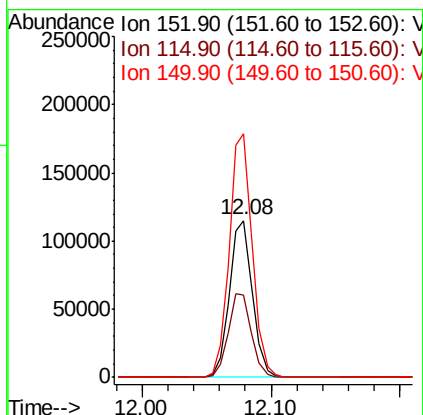
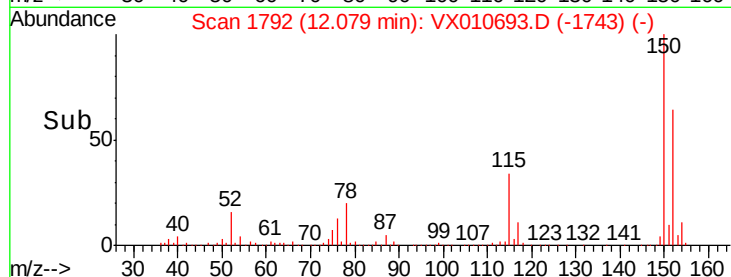
150 154.9 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 0.322 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX010693.D

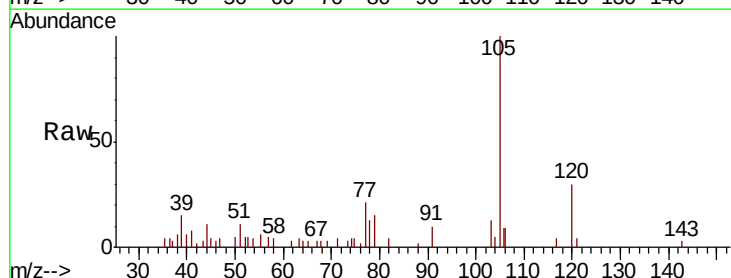
Acq: 08 Jul 2019 14:15

Tgt Ion:105 Resp: 3154

Ion Ratio Lower Upper

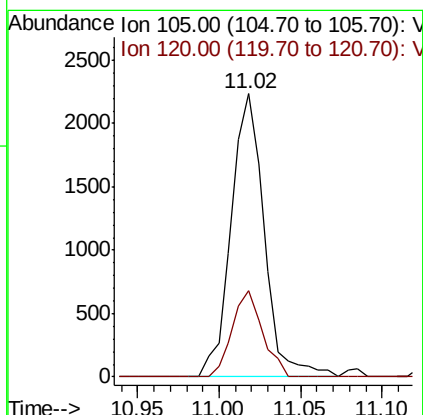
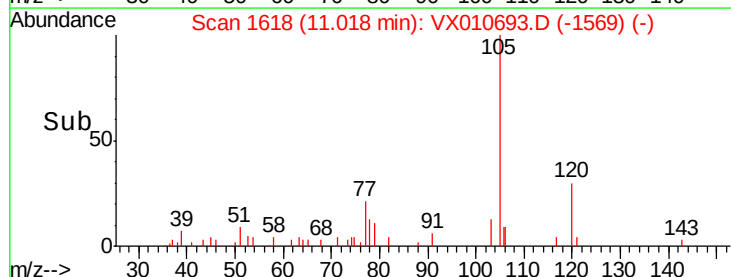
105 100

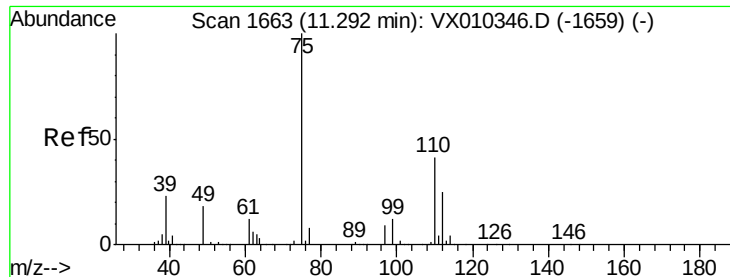
120 27.7 14.1 42.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 26.330 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010693.D

Acq: 08 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

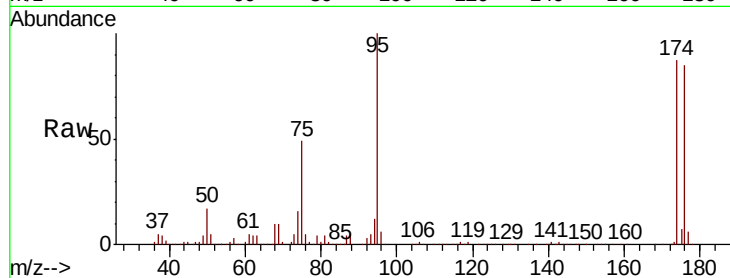
DUP-0533-190701DL

Tot Ion: 75 Resp: 69230

Ion Ratio Lower Upper

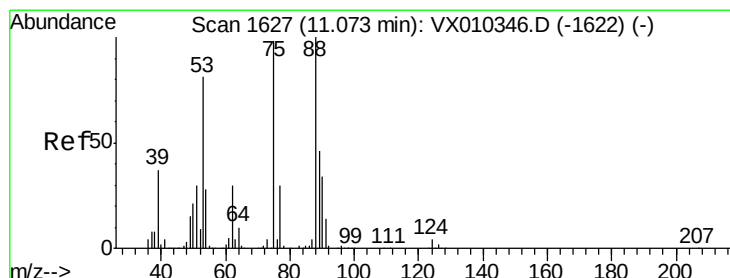
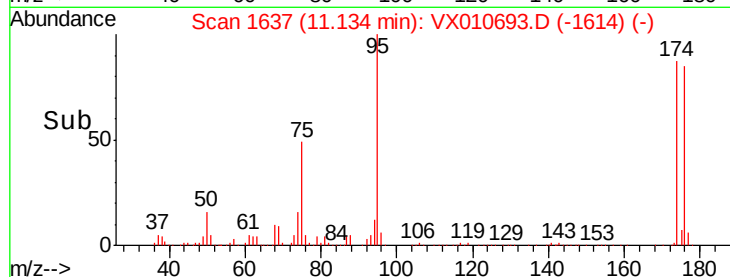
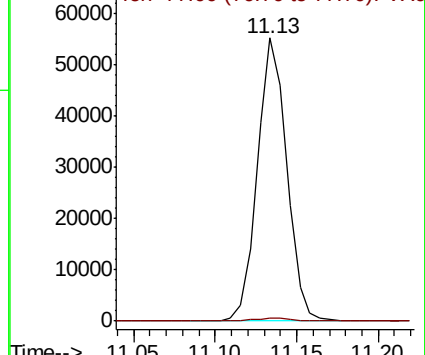
75 100

77 1.5 22.6 67.8#



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: 61.426 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010693.D

Acq: 08 Jul 2019 14:15

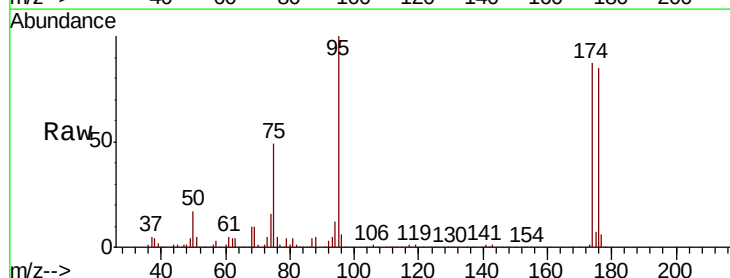
Tgt Ion: 75 Resp: 69230

Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

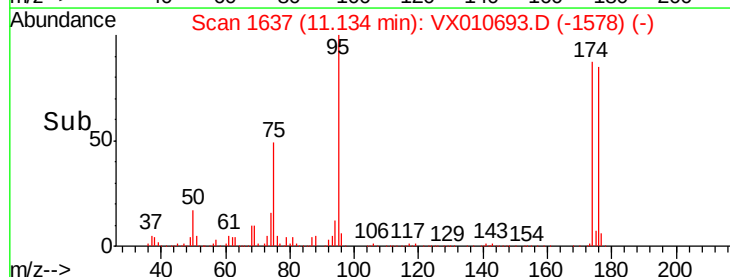
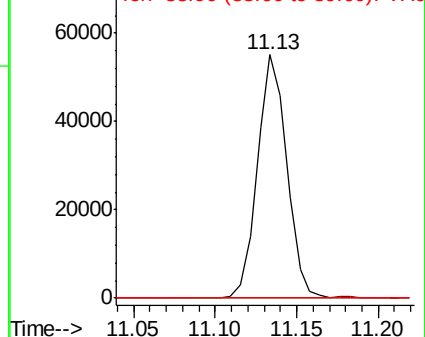
89 0.0 37.8 56.6#

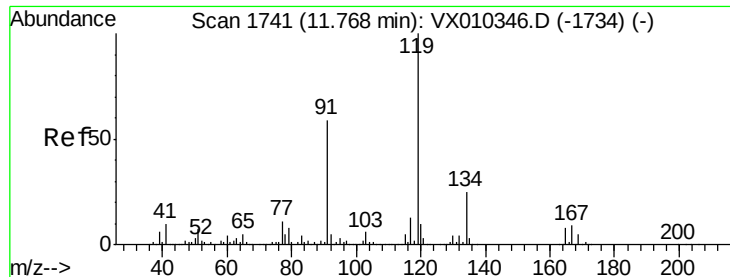


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#83

tert-Butylbenzene

Concen: 0.863 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX010693.D

Acq: 08 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

DUP-0533-190701DL

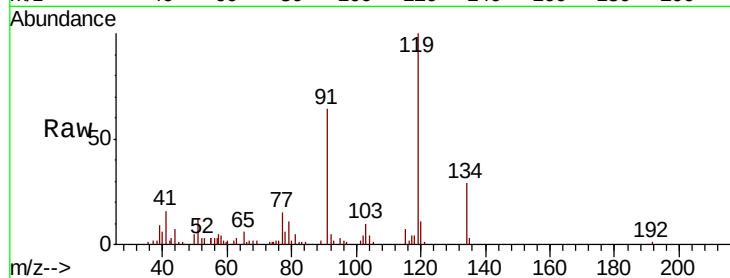
Tot Ion:119 Resp: 6983

Ion Ratio Lower Upper

119 100

91 63.3 27.6 82.7

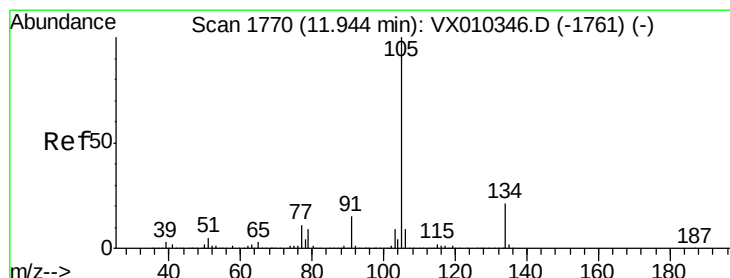
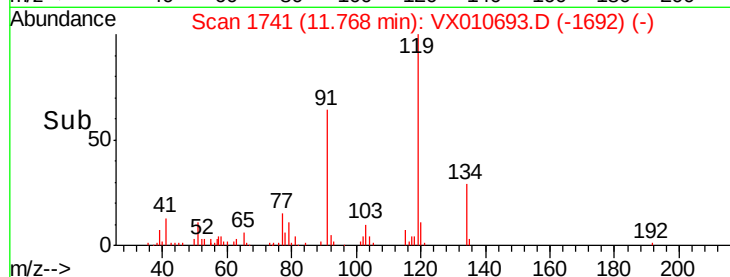
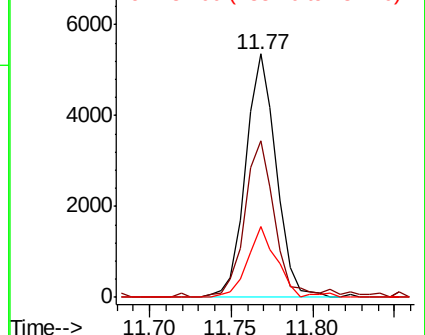
134 28.0 11.8 35.4



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



#85

sec-Butylbenzene

Concen: 0.689 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX010693.D

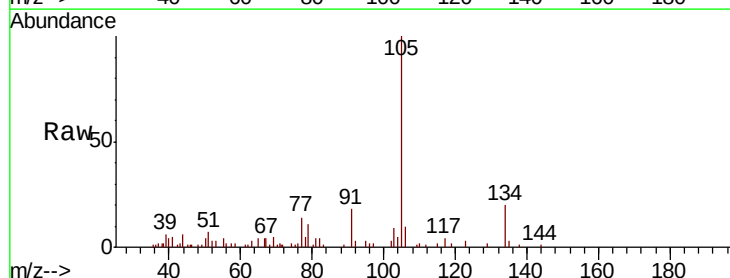
Acq: 08 Jul 2019 14:15

Tgt Ion:105 Resp: 6547

Ion Ratio Lower Upper

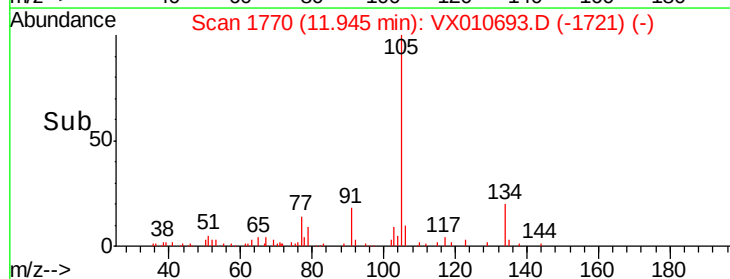
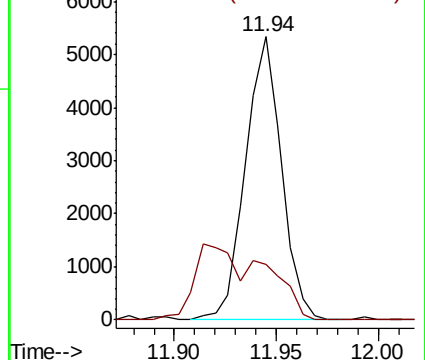
105 100

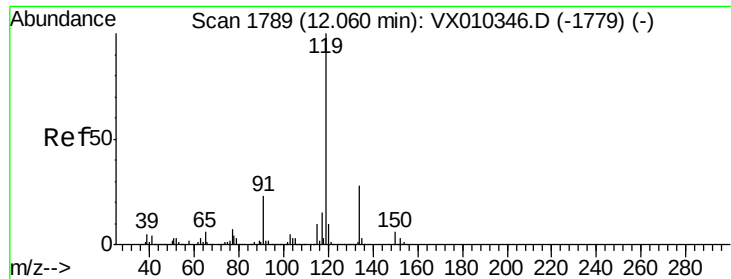
134 0.0 10.7 31.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

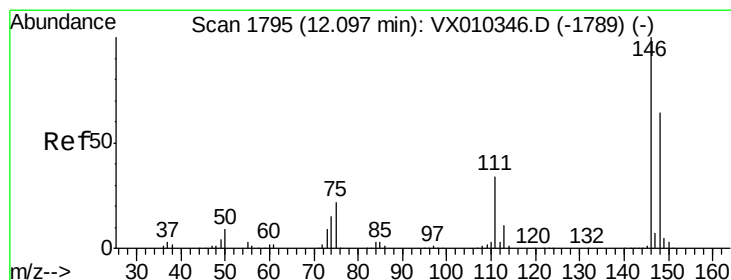
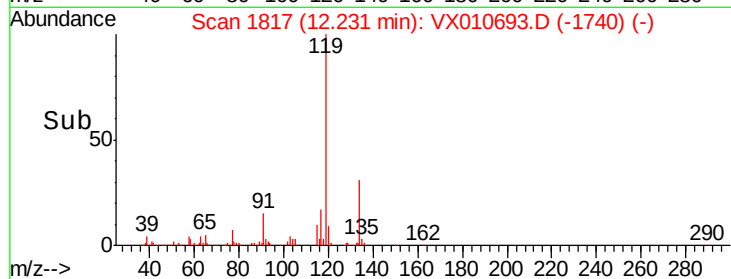
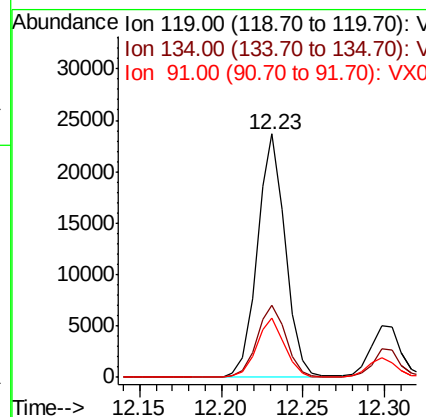
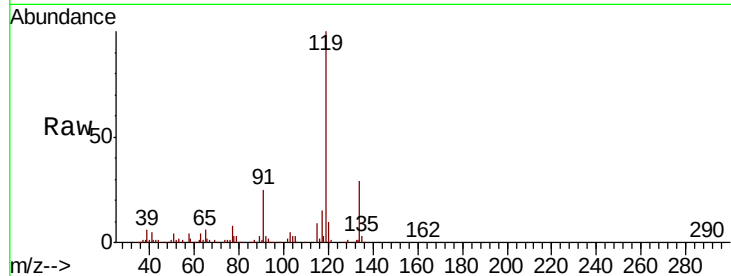




#86
 p-Isopropyltoluene
 Concen: 3.218 ug/l
 RT: 12.23 min Scan# 1817
 Delta R.T. 0.17 min
 Lab File: VX010693.D
 Acq: 08 Jul 2019 14:15

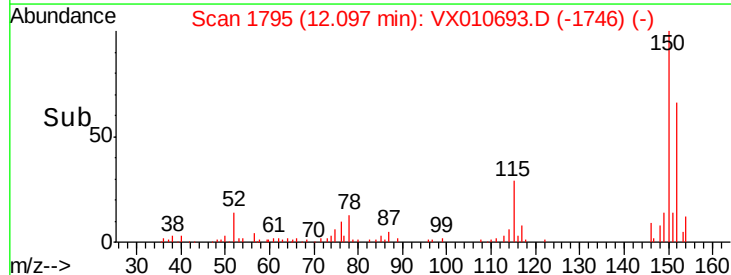
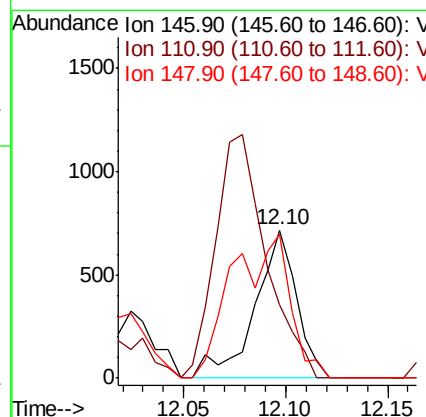
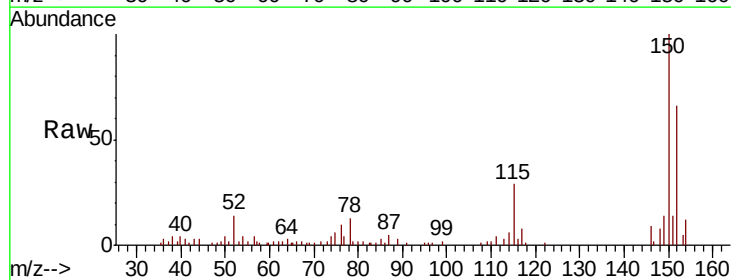
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0533-190701DL

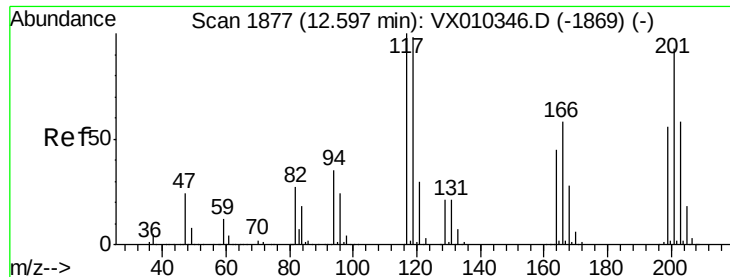
Tot Ion	Ratio	Lower	Upper
119	100		
134	30.8	13.7	41.1
91	24.4	11.3	33.8



#88
 1,4-Dichlorobenzene
 Concen: 0.210 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX010693.D
 Acq: 08 Jul 2019 14:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	198.8	18.1	54.3#
148	70.6	32.1	96.3





#90

Hexachloroethane

Concen: 3.324 ug/l

RT: 12.70 min Scan# 1894

Delta R.T. 0.10 min

Lab File: VX010693.D

Acq: 08 Jul 2019 14:15

Instrument :

MSVOA_X

ClientSampleId :

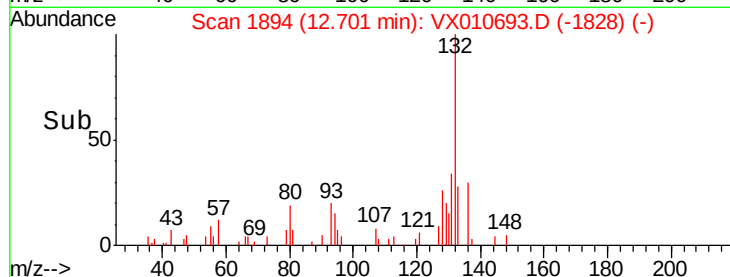
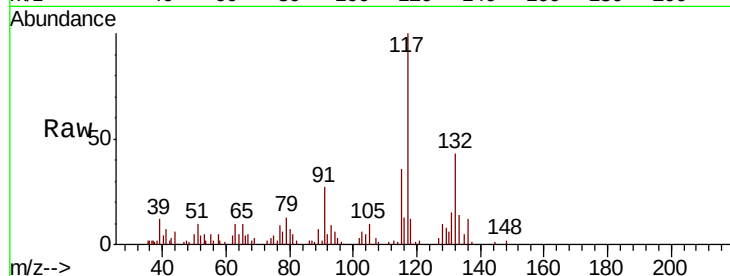
DUP-0533-190701DL

Tot Ion:117 Resp: 5051

Ion Ratio Lower Upper

117 100

201 0.0 44.0 131.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

