

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062819\
 Data File : VX010545.D
 Acq On : 28 Jun 2019 19:18
 Operator : JC/SP
 Sample : K3572-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ERM-7

Quant Time: Jun 29 04:41:28 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	258818	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	400981	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	362685	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	165817	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	125762	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
35) Dibromofluoromethane	5.50	113	120104	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
50) Toluene-d8	8.71	98	470446	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
62) 4-Bromofluorobenzene	11.13	95	155748	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	

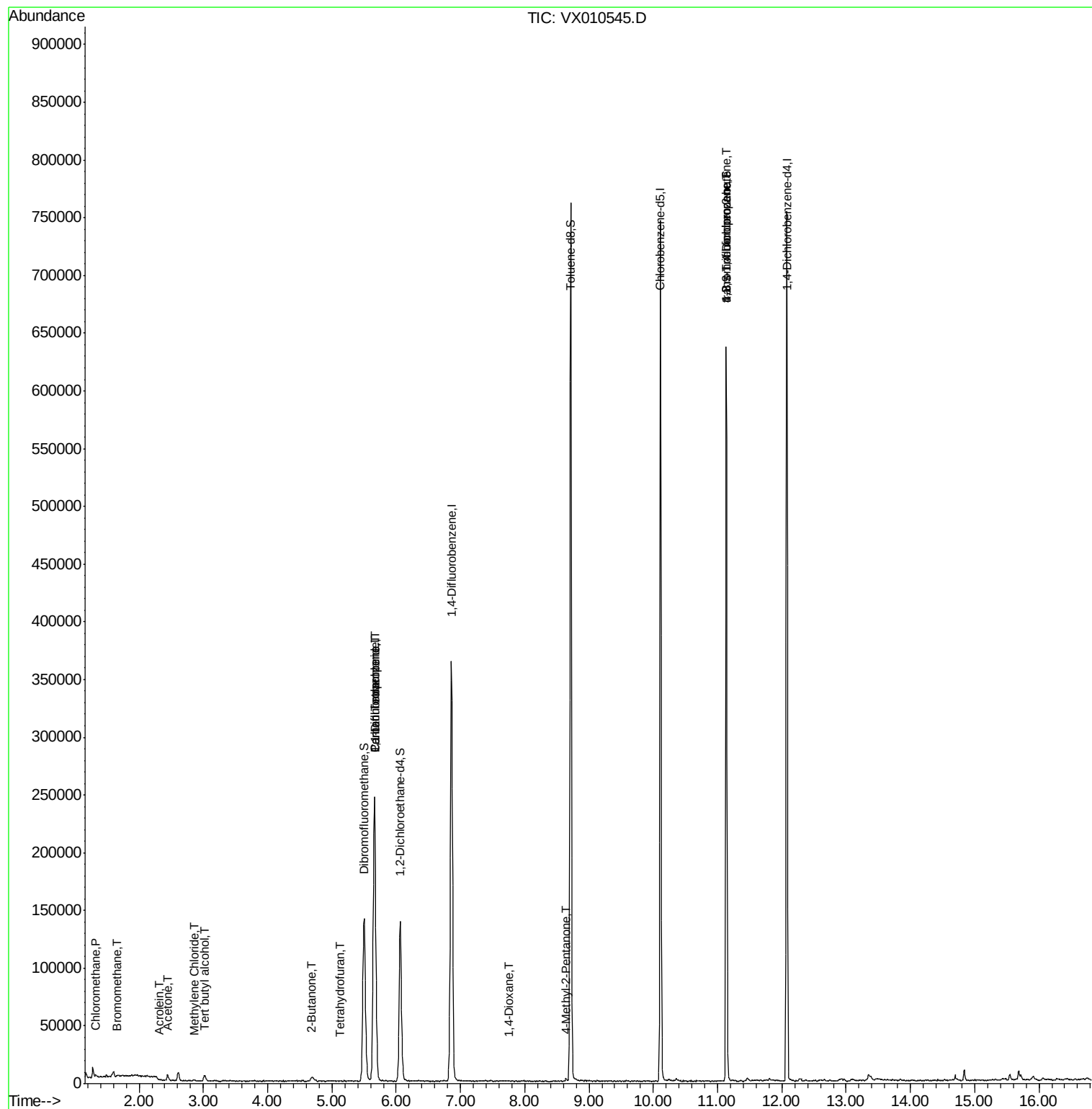
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1079	0.515	ug/l #	86
5) Bromomethane	1.65	94	348	0.311	ug/l	95
11) Tert butyl alcohol	3.01	59	2820	4.441	ug/l	99
13) Acrolein	2.31	56	163	0.387	ug/l #	61
16) Acetone	2.45	43	5392	4.434	ug/l	94
20) Methylene Chloride	2.87	84	617	0.247	ug/l #	77
25) 2-Butanone	4.68	43	919	0.515	ug/l #	46
29) Tetrahydrofuran	5.12	42	301	0.272	ug/l #	73
36) 1,1-Dichloropropene	5.67	75	16086	5.048	ug/l #	49
38) Carbon Tetrachloride	5.67	117	23238	6.735	ug/l #	15
49) 1,4-Dioxane	7.74	88	19	0.262	ug/l #	1
51) 4-Methyl-2-Pentanone	8.65	43	1676	0.483	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	75605	25.021	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	75605	58.372	ug/l #	16

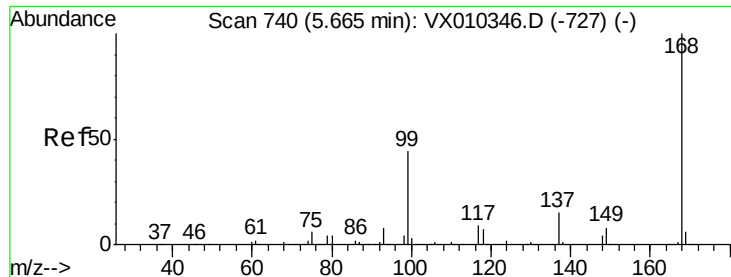
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010545.D

Acq: 28 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

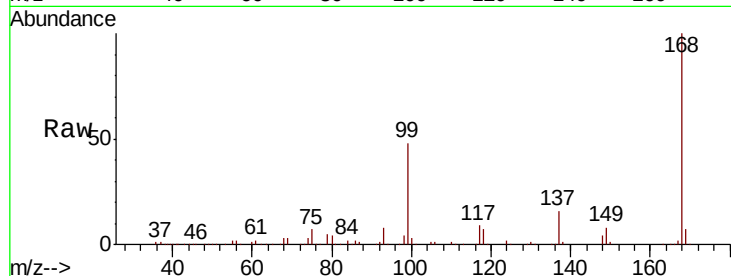
ERM-7

Tot Ion:168 Resp: 258818

Ion Ratio Lower Upper

168 100

99 48.1 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

100000

80000

60000

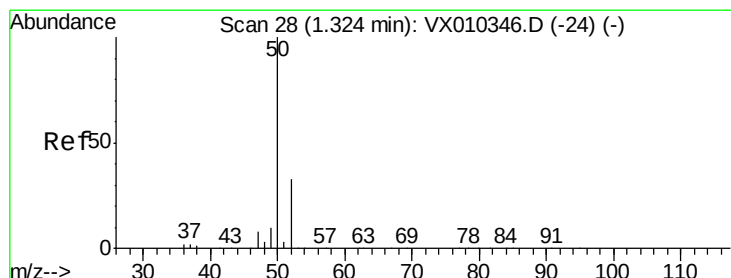
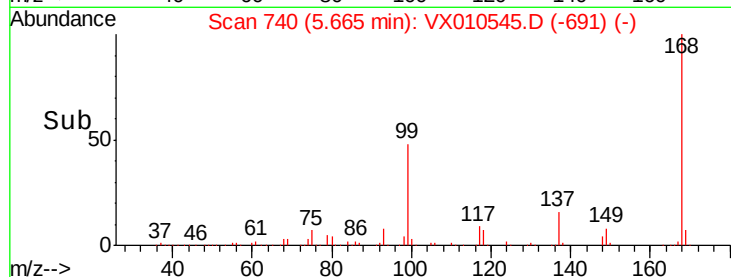
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: 0.515 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010545.D

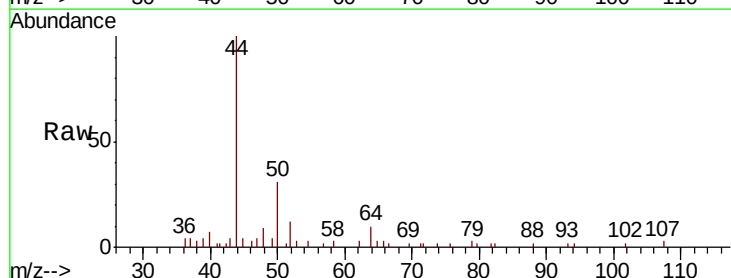
Acq: 28 Jun 2019 19:18

Tgt Ion: 50 Resp: 1079

Ion Ratio Lower Upper

50 100

52 41.3 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

600

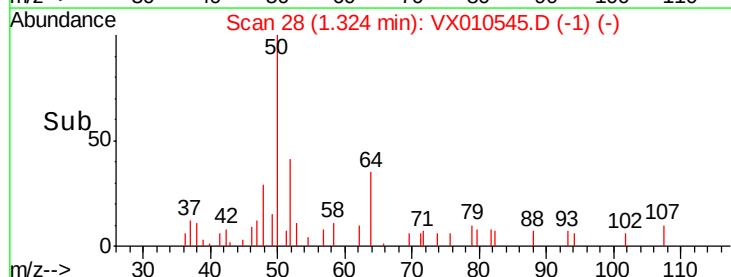
400

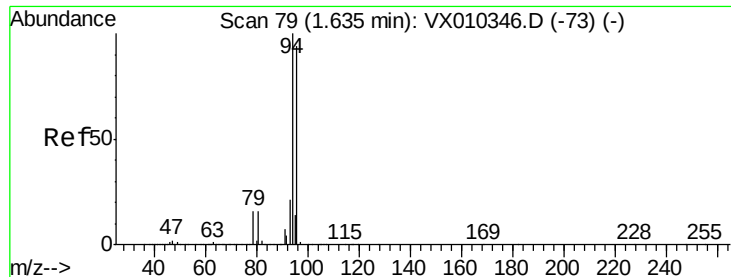
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.311 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010545.D

Acq: 28 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

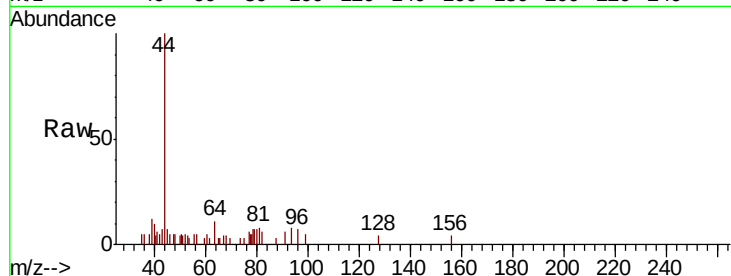
ERM-7

Tot Ion: 94 Resp: 348

Ion Ratio Lower Upper

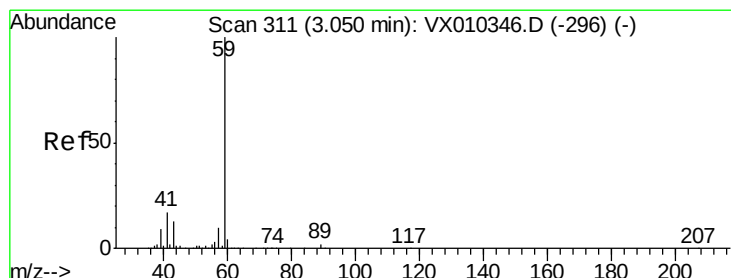
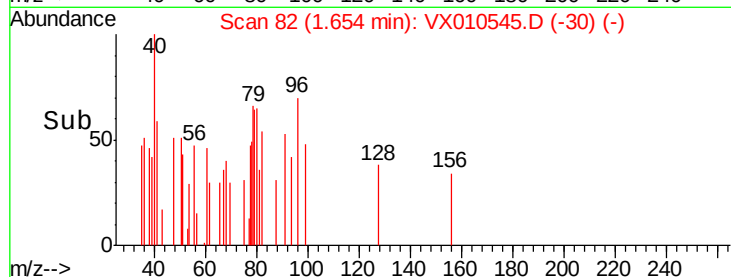
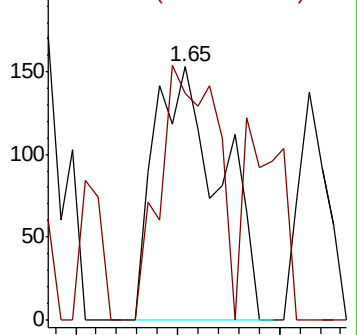
94 100

96 89.5 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 4.441 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX010545.D

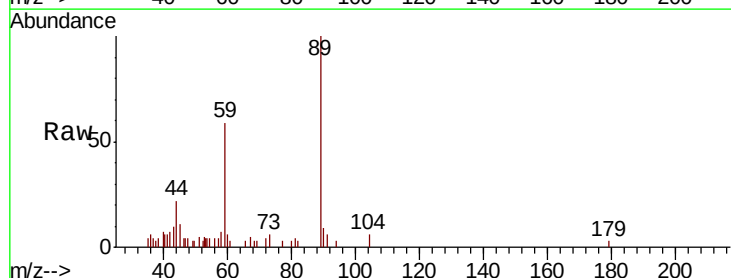
Acq: 28 Jun 2019 19:18

Tgt Ion: 59 Resp: 2820

Ion Ratio Lower Upper

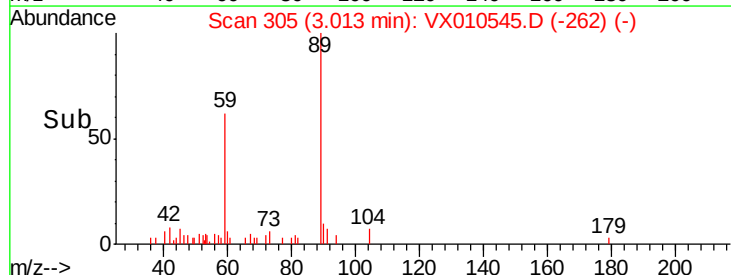
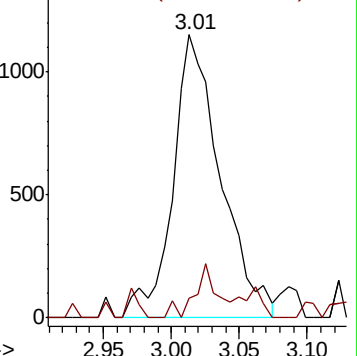
59 100

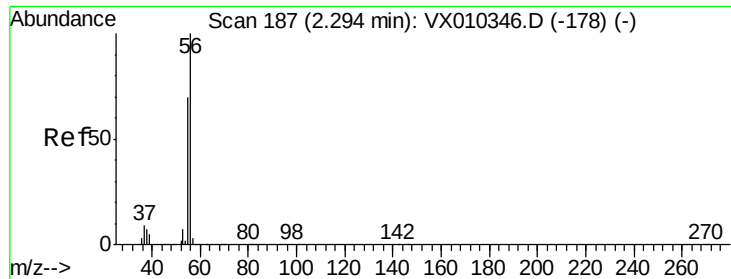
57 9.2 7.7 11.5



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.387 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX010545.D

Acq: 28 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

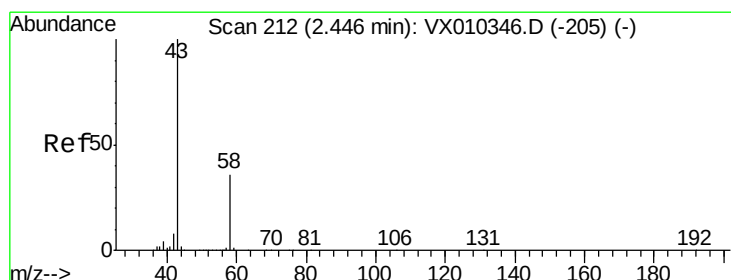
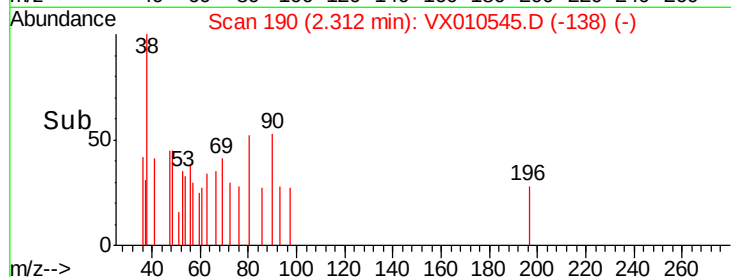
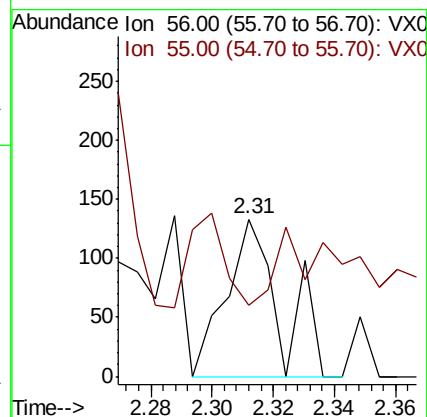
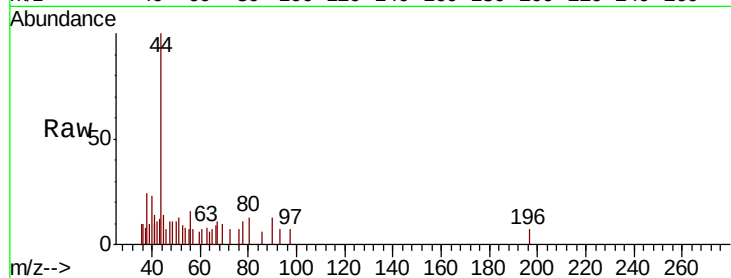
ERM-7

Tot Ion: 56 Resp: 163

Ion Ratio Lower Upper

56 100

55 38.7 56.9 85.3#



#16

Acetone

Concen: 4.434 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010545.D

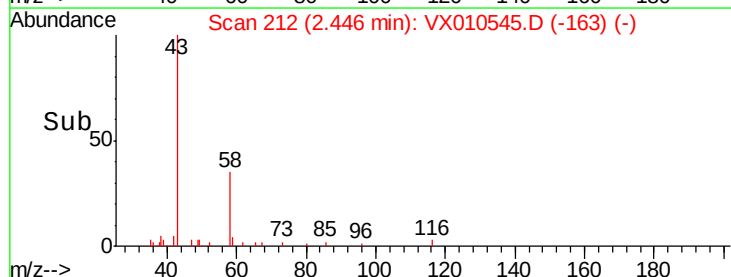
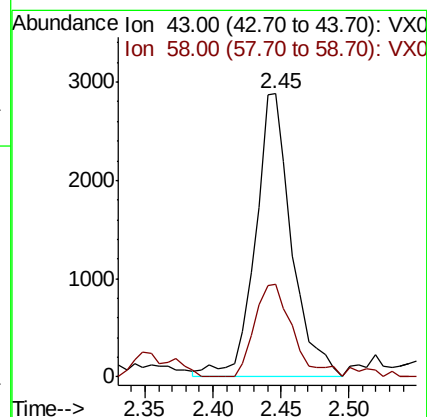
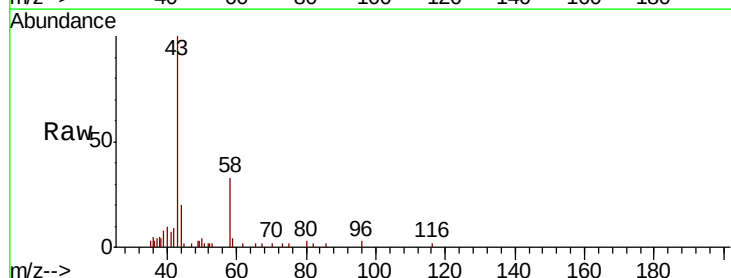
Acq: 28 Jun 2019 19:18

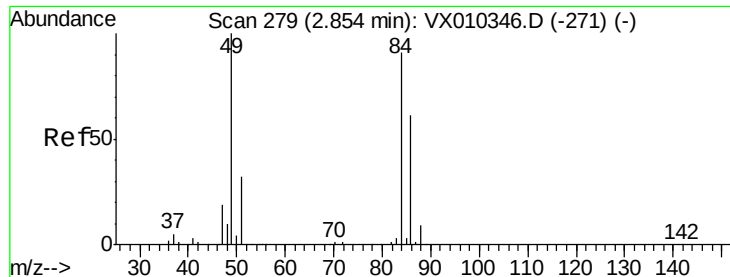
Tgt Ion: 43 Resp: 5392

Ion Ratio Lower Upper

43 100

58 32.6 28.9 43.3

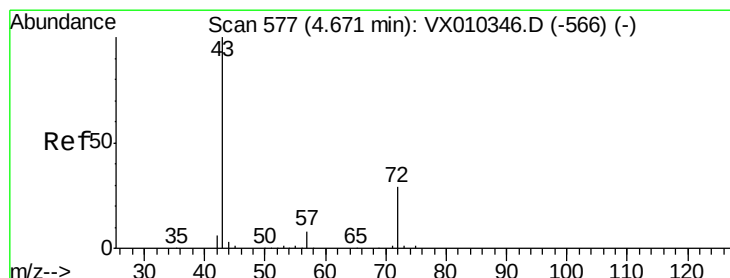
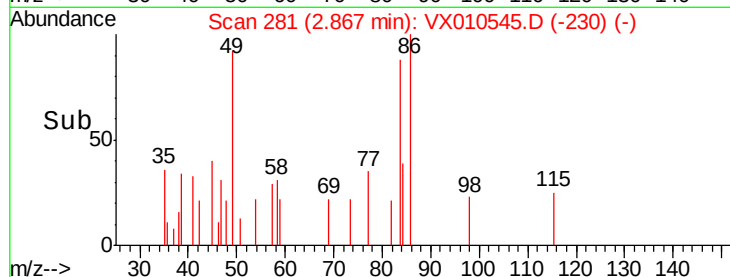
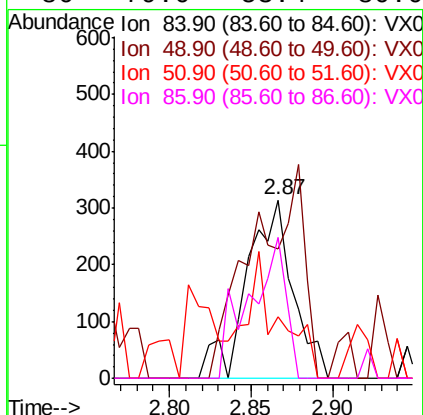
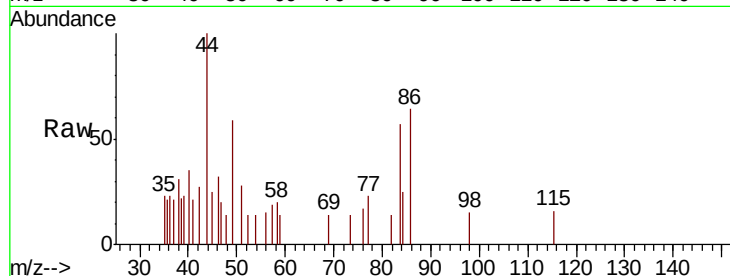




#20
Methvlene Chloride
Concen: 0.247 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX010545.D
Acq: 28 Jun 2019 19:18

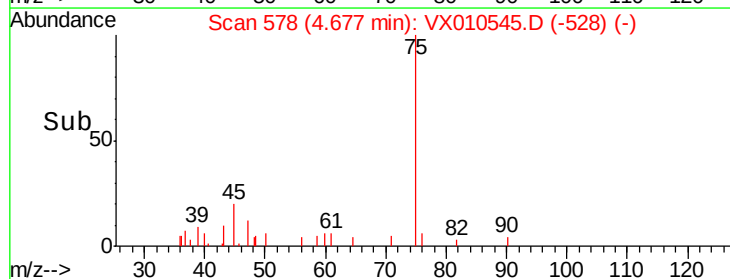
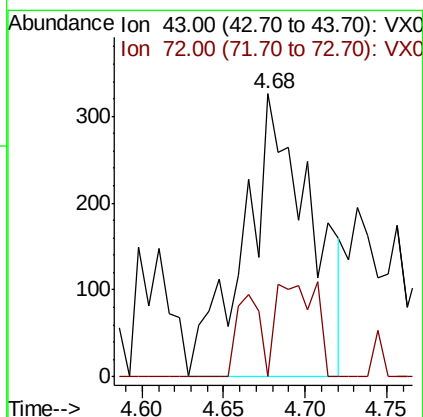
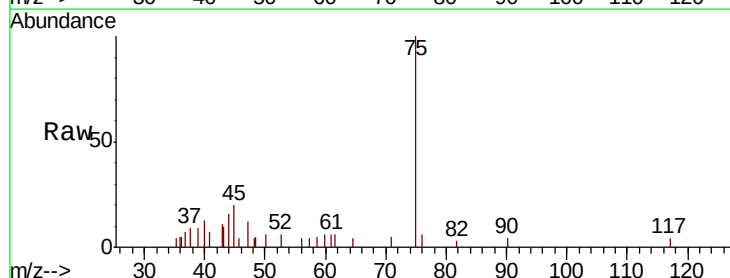
Instrument :
MSVOA_X
ClientSampled :
ERM-7

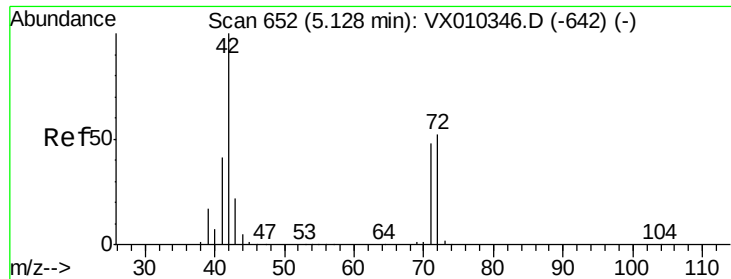
Tot Ion:	84	Resp:	617
Ion	Ratio	Lower	Upper
84	100		
49	72.6	87.5	131.3#
51	34.7	27.7	41.5
86	79.0	53.4	80.0



#25
2-Butanone
Concen: 0.515 ug/l
RT: 4.68 min Scan# 578
Delta R.T. 0.01 min
Lab File: VX010545.D
Acq: 28 Jun 2019 19:18

Tgt Ion:	43	Resp:	919
Ion	Ratio	Lower	Upper
43	100		
72	0.0	23.3	34.9#





#29

Tetrahydrofuran

Concen: 0.272 ug/l

RT: 5.12 min Scan# 651

Delta R.T. -0.01 min

Lab File: VX010545.D

Acq: 28 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampled :

ERM-7

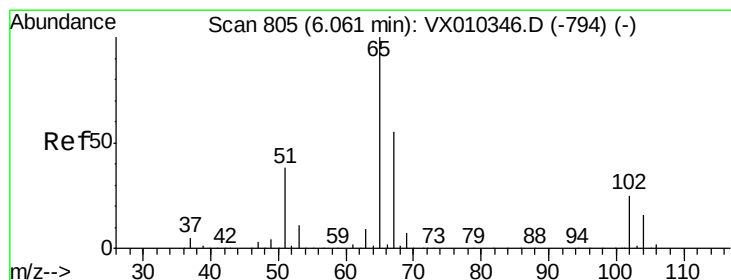
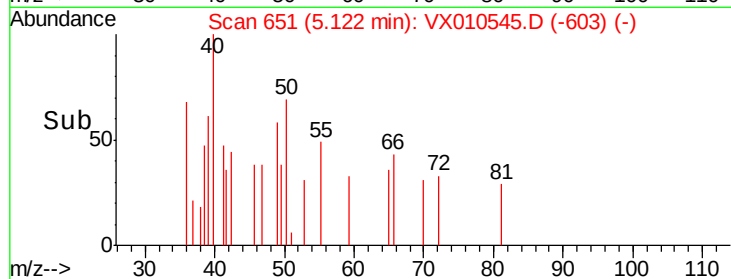
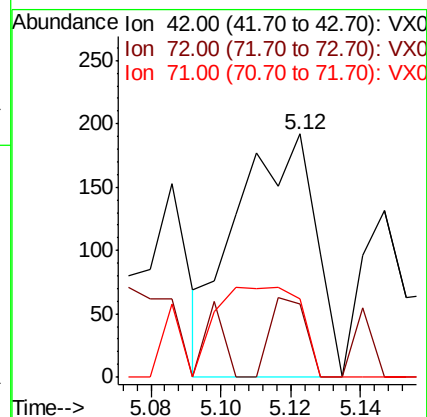
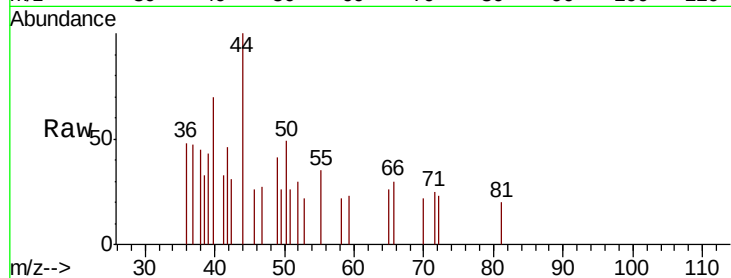
Tot Ion: 42 Resp: 301

Ion Ratio Lower Upper

42 100

72 14.6 40.6 60.8#

71 46.5 37.8 56.8



#33

1,2-Dichloroethane-d4

Concen: 51.825 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010545.D

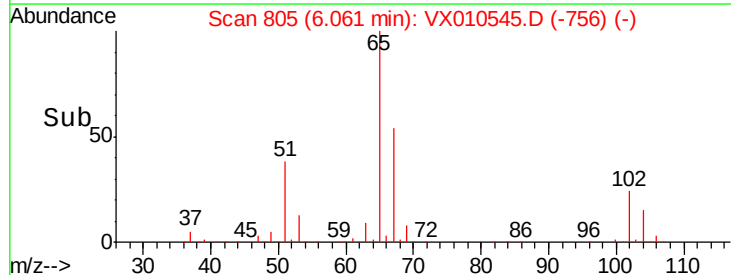
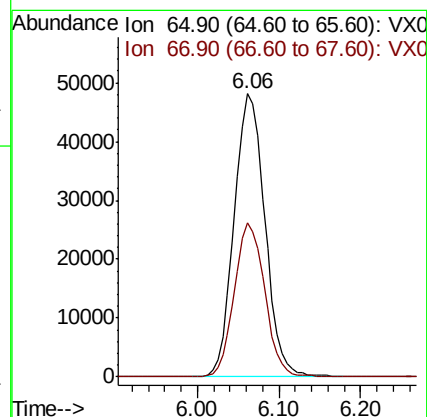
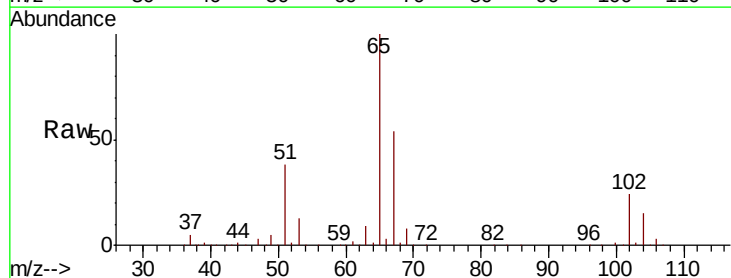
Acq: 28 Jun 2019 19:18

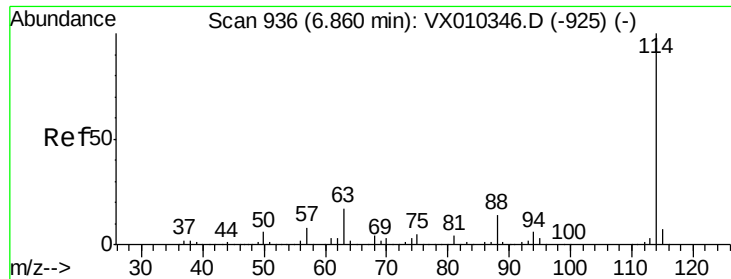
Tgt Ion: 65 Resp: 125762

Ion Ratio Lower Upper

65 100

67 53.7 0.0 110.2

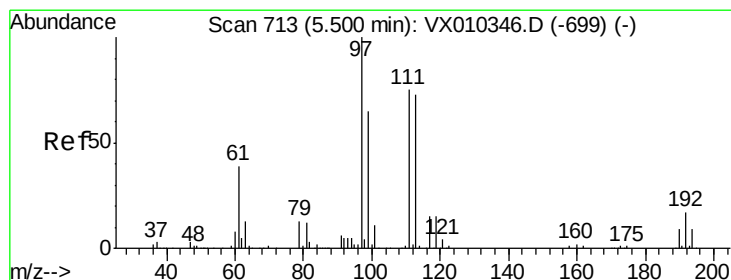
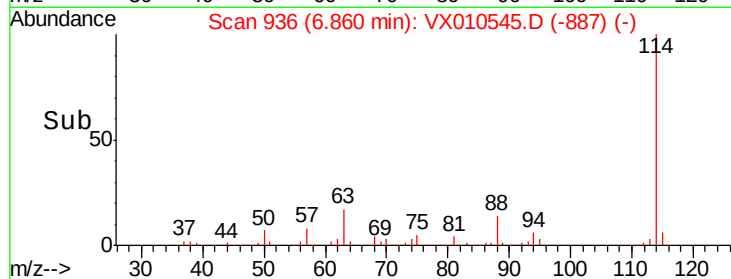
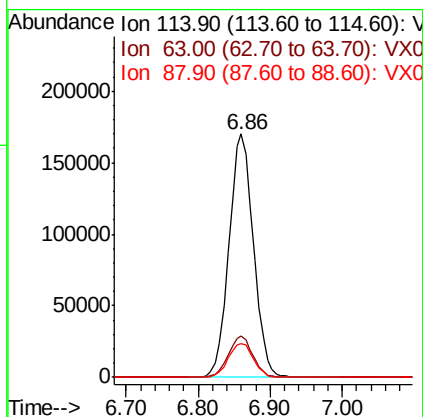
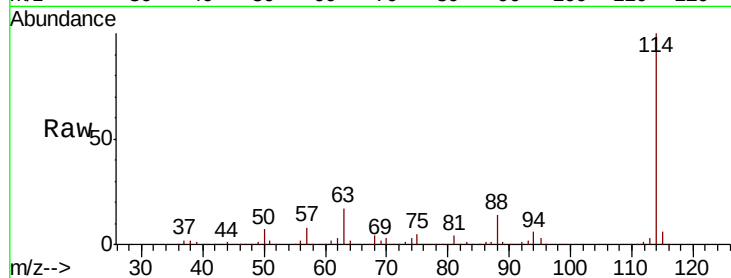




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010545.D
 Acq: 28 Jun 2019 19:18

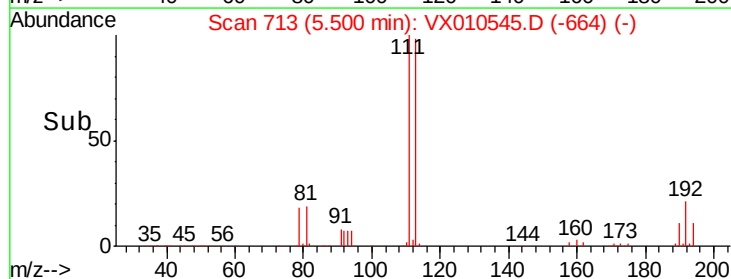
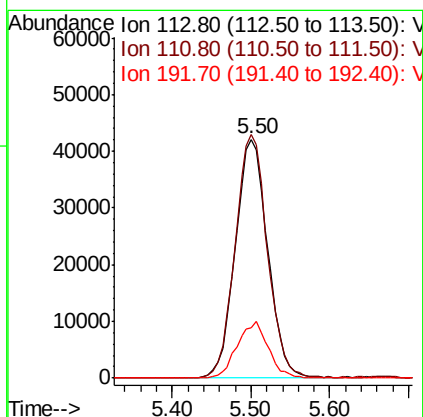
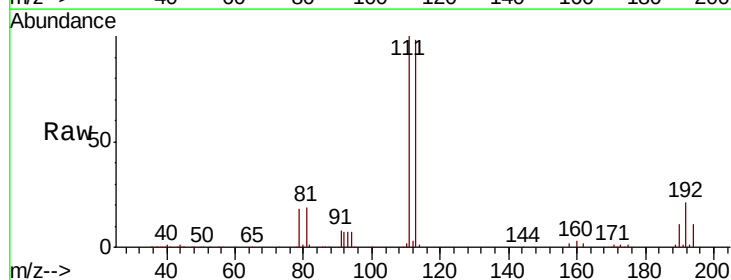
Instrument :
 MSVOA_X
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 ERM-7

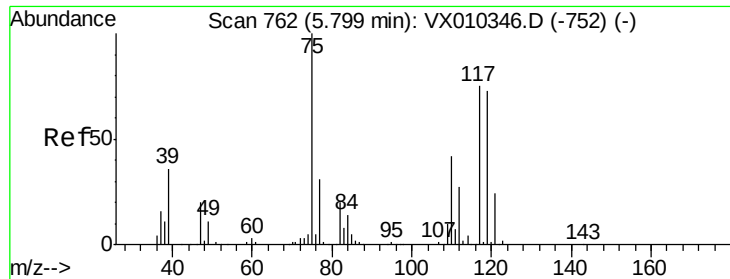
Tot Ion	Ratio	Lower	Upper
114	100		
63	16.9	0.0	33.8
88	13.7	0.0	27.6



#35
 Dibromofluoromethane
 Concen: 48.955 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010545.D
 Acq: 28 Jun 2019 19:18

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.2	121.8
192	22.6	18.6	27.8

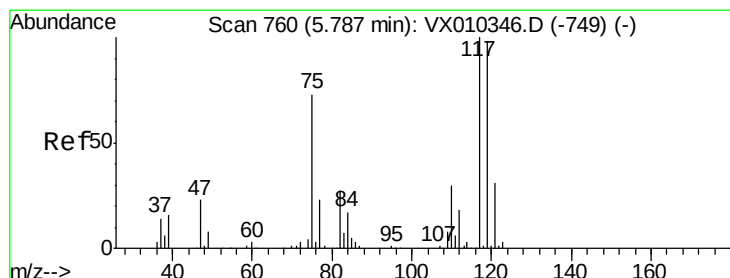
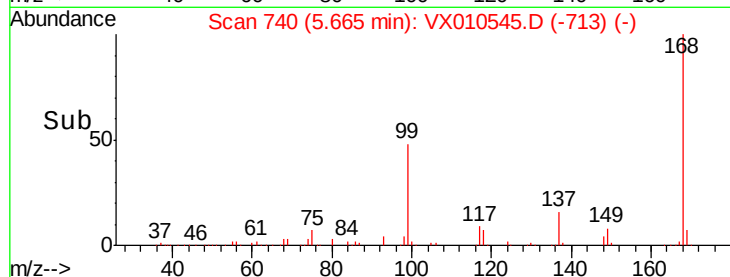
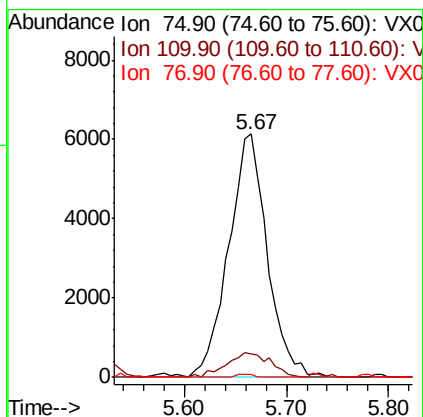
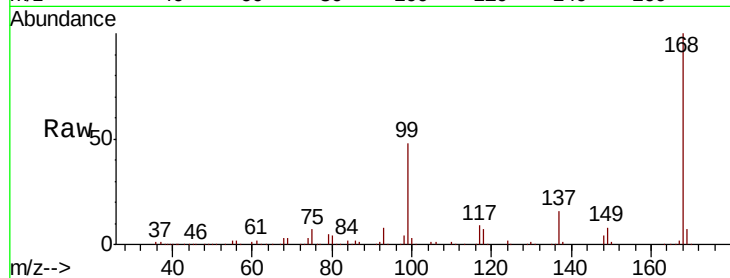




#36
 1,1-Dichloropropene
 Concen: 5.048 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX010545.D
 Acq: 28 Jun 2019 19:18

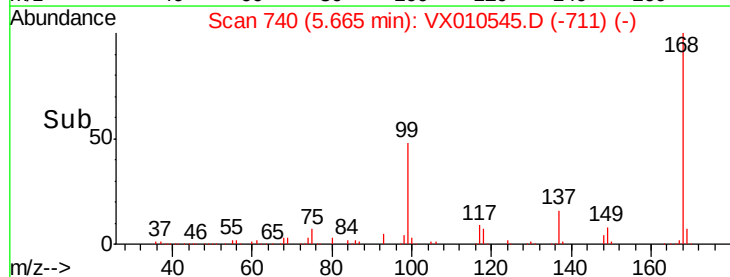
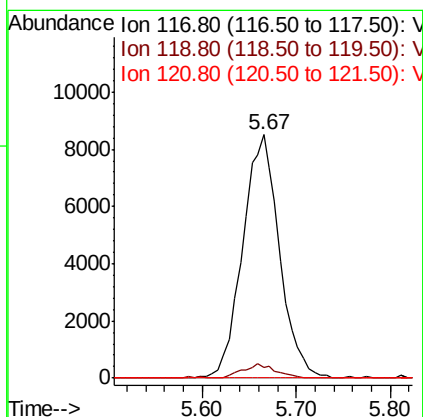
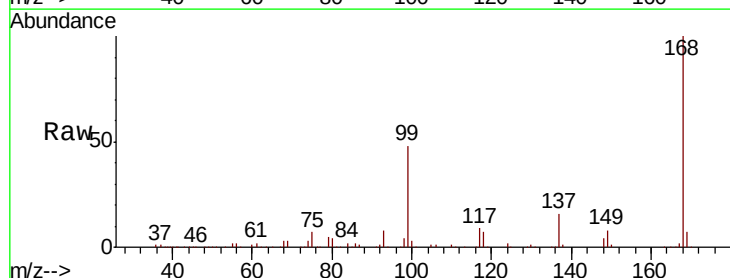
Instrument :
 MSVOA_X
 ClientSampleId :
 ERM-7

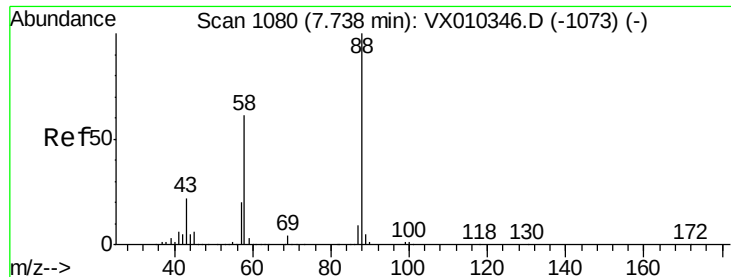
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.7	20.8	62.2#
77	0.5	25.4	38.0#



#38
 Carbon Tetrachloride
 Concen: 6.735 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX010545.D
 Acq: 28 Jun 2019 19:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	78.2	117.4#
121	0.0	24.7	37.1#

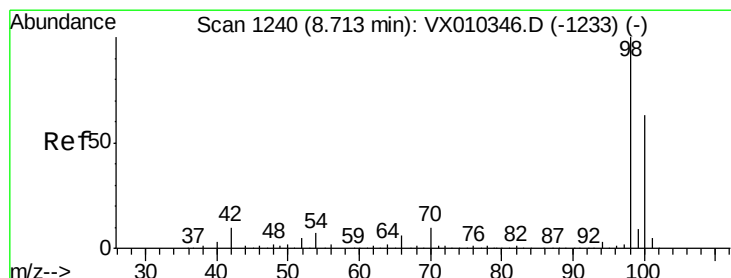
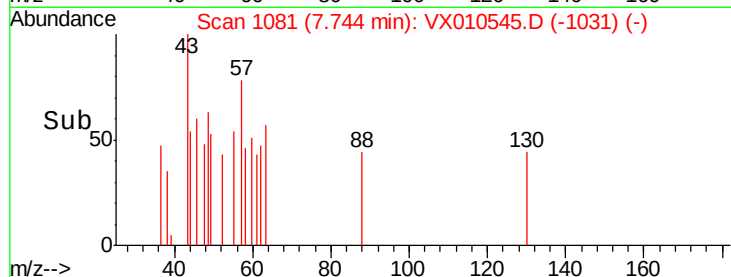
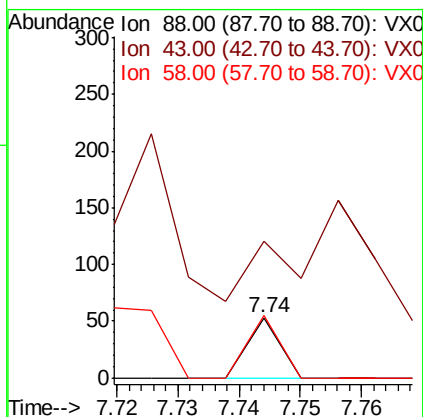
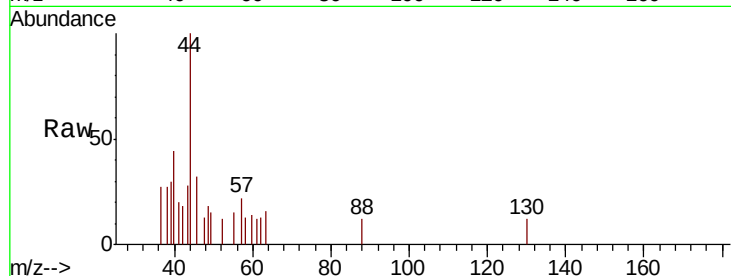




#49
 1,4-Dioxane
 Concen: 0.262 ug/l
 RT: 7.74 min Scan# 1081
 Delta R.T. 0.01 min
 Lab File: VX010545.D
 Acq: 28 Jun 2019 19:18

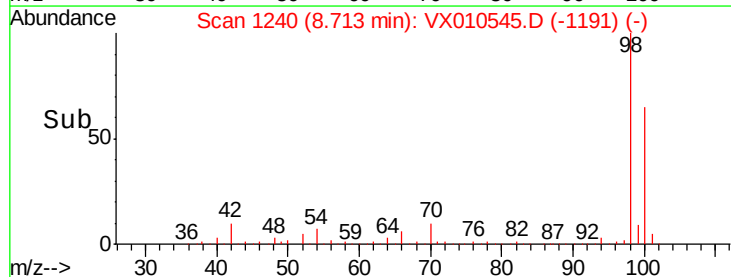
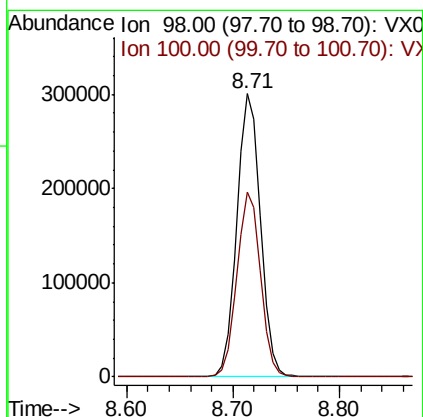
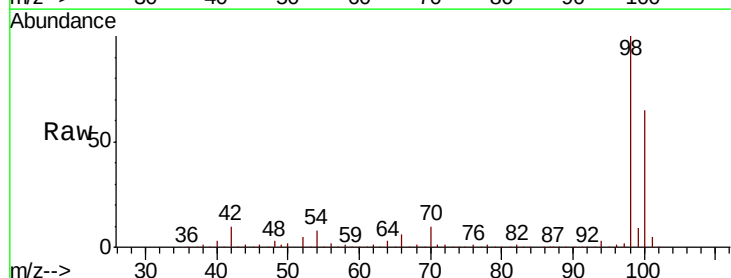
Instrument :
 MSVOA_X
 ClientSampled :
 ERM-7

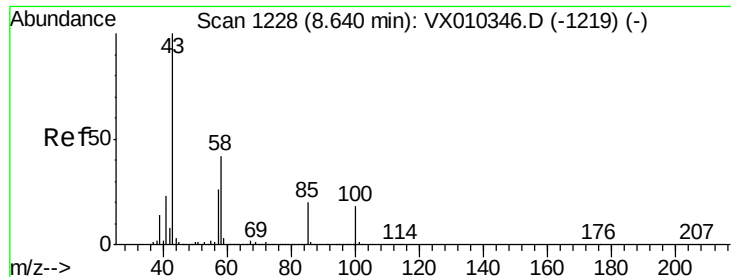
Tot Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 1000.0 20.2 30.2#
 58 105.3 49.5 74.3#



#50
 Toluene-d8
 Concen: 50.122 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX010545.D
 Acq: 28 Jun 2019 19:18

Tgt Ion: 98 Resp: 470446
 Ion Ratio Lower Upper
 98 100
 100 65.0 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 0.483 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. 0.01 min

Lab File: VX010545.D

Acq: 28 Jun 2019 19:18

Instrument :

MSVOA_X

ClientSampled :

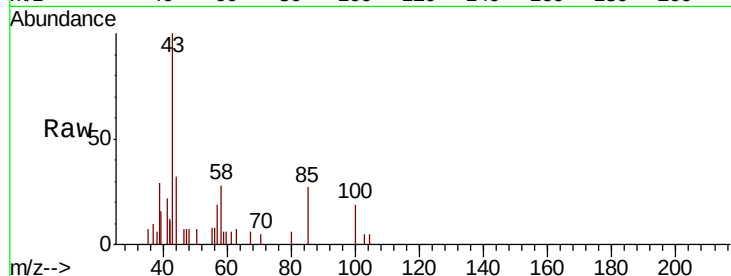
ERM-7

Tot Ion: 43 Resp: 1676

Ion Ratio Lower Upper

43 100

58 37.4 33.5 50.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

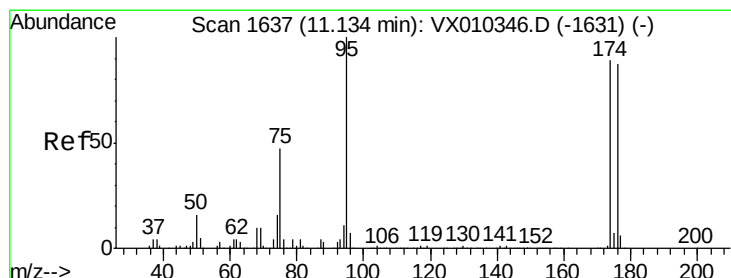
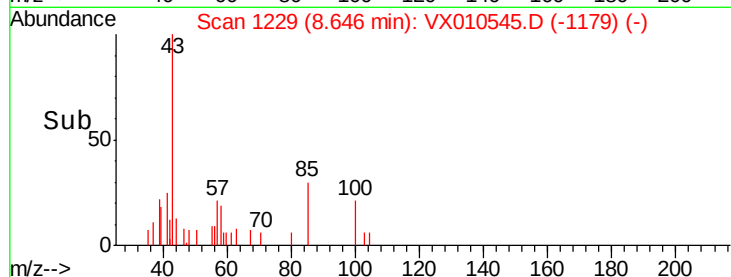
1500

1000

500

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.962 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010545.D

Acq: 28 Jun 2019 19:18

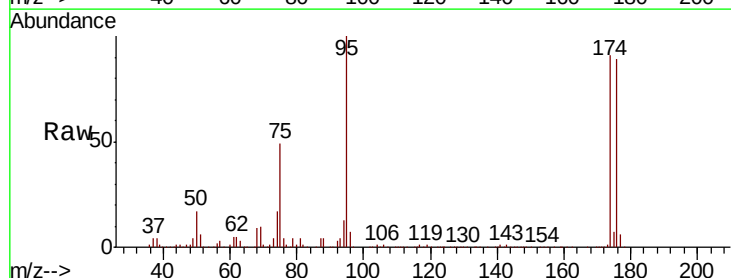
Tgt Ion: 95 Resp: 155748

Ion Ratio Lower Upper

95 100

174 95.8 0.0 187.6

176 93.6 0.0 184.0



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

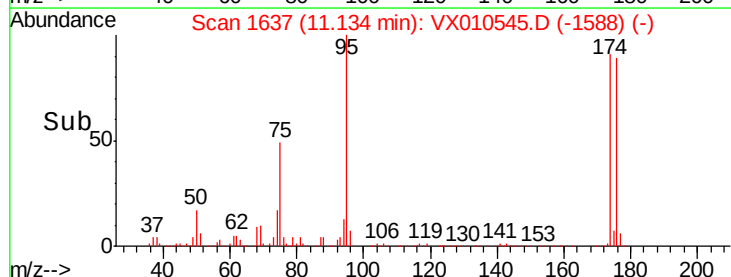
150000

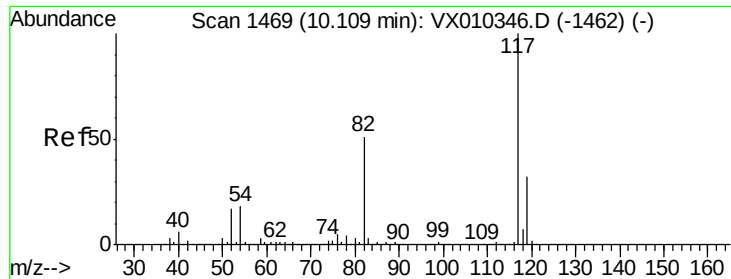
100000

50000

0

Time-->

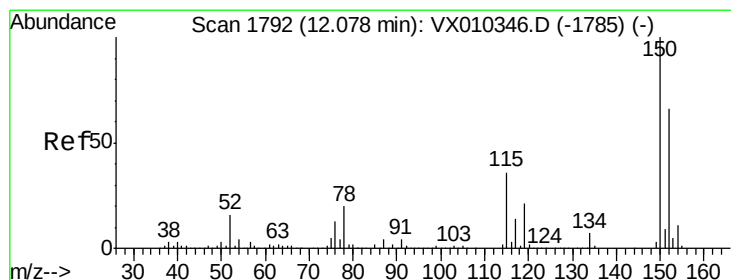
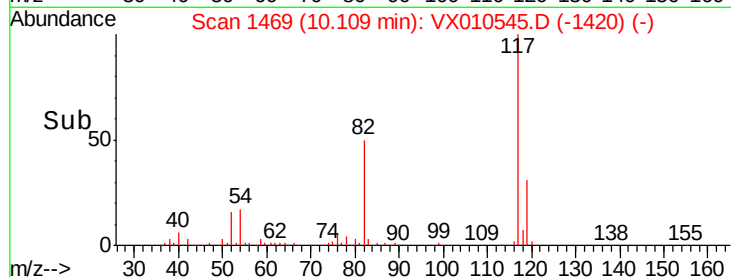
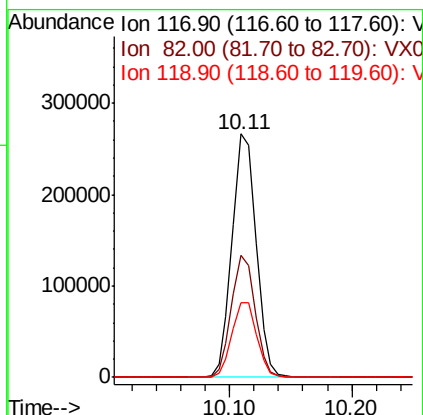
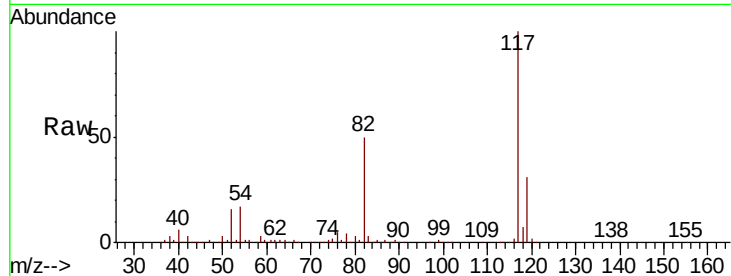




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010545.D
Acq: 28 Jun 2019 19:18

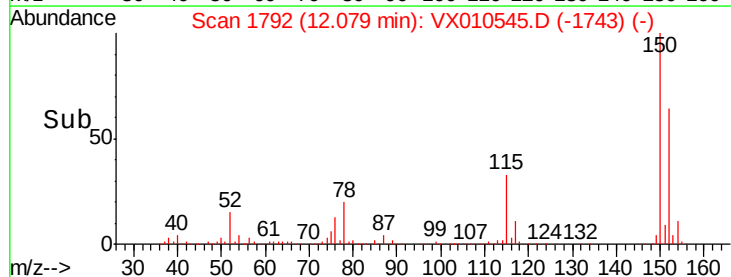
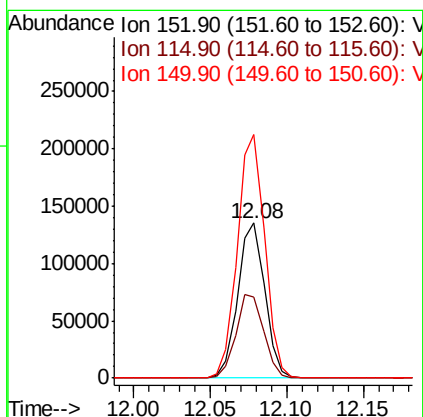
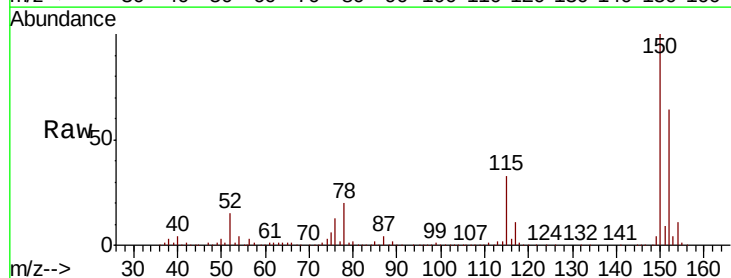
Instrument :
MSVOA_X
ClientSampleId :
ERM-7

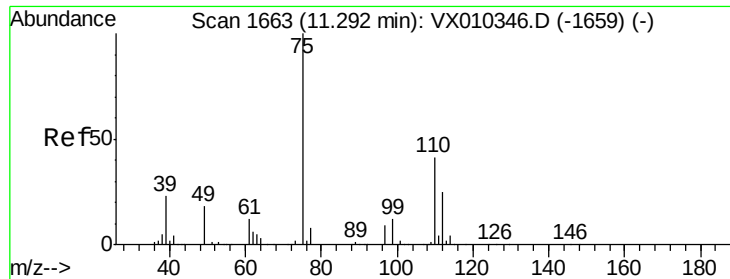
Tot Ion:117 Resp: 362685
Ion Ratio Lower Upper
117 100
82 49.9 41.2 61.8
119 30.9 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010545.D
Acq: 28 Jun 2019 19:18

Tgt Ion:152 Resp: 165817
Ion Ratio Lower Upper
152 100
115 55.2 38.6 115.7
150 158.9 0.0 347.4

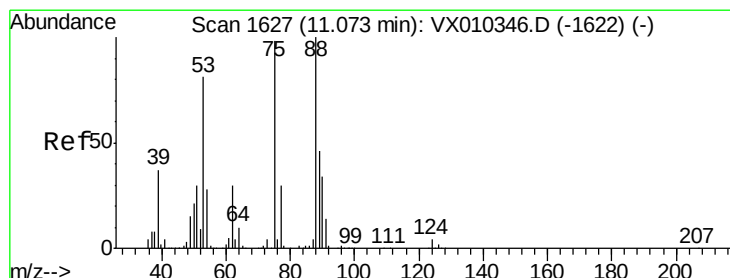
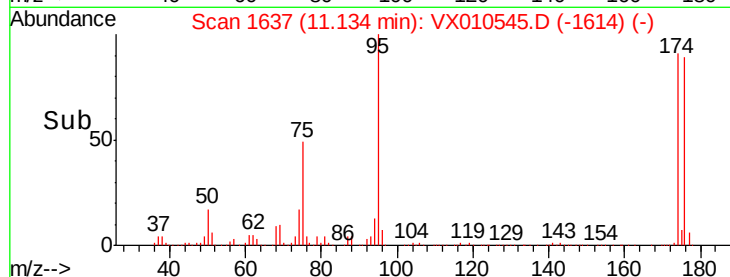
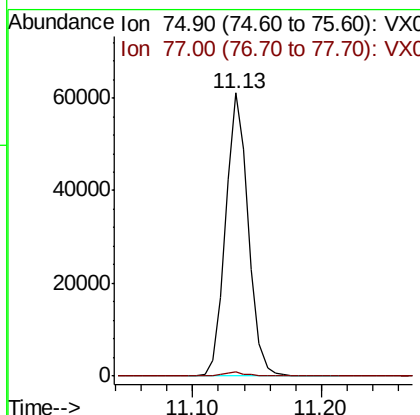
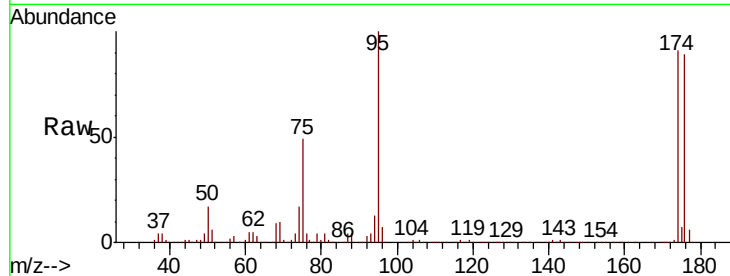




#76
 1,2,3-Trichloropropane
 Concen: 25.021 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010545.D
 Acq: 28 Jun 2019 19:18

Instrument :
 MSVOA_X
 ClientSampleId :
 ERM-7

Tot Ion: 75 Resp: 75605
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.6 67.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.372 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010545.D
 Acq: 28 Jun 2019 19:18

Tgt Ion: 75 Resp: 75605
 Ion Ratio Lower Upper
 75 100
 53 0.2 66.1 99.1#
 89 0.0 37.8 56.6#

