

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042519\
 Data File : VX009163.D
 Acq On : 25 Apr 2019 15:32
 Operator : JC/SP
 Sample : K2535-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-0016

Quant Time: Apr 26 04:35:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	205554	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	330404	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	283922	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	112752	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	138667	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
35) Dibromofluoromethane	5.50	113	100849	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	
50) Toluene-d8	8.71	98	410625	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
62) 4-Bromofluorobenzene	11.13	95	131609	44.09	ug/l	0.00
Spiked Amount			Recovery	=	88.18%	

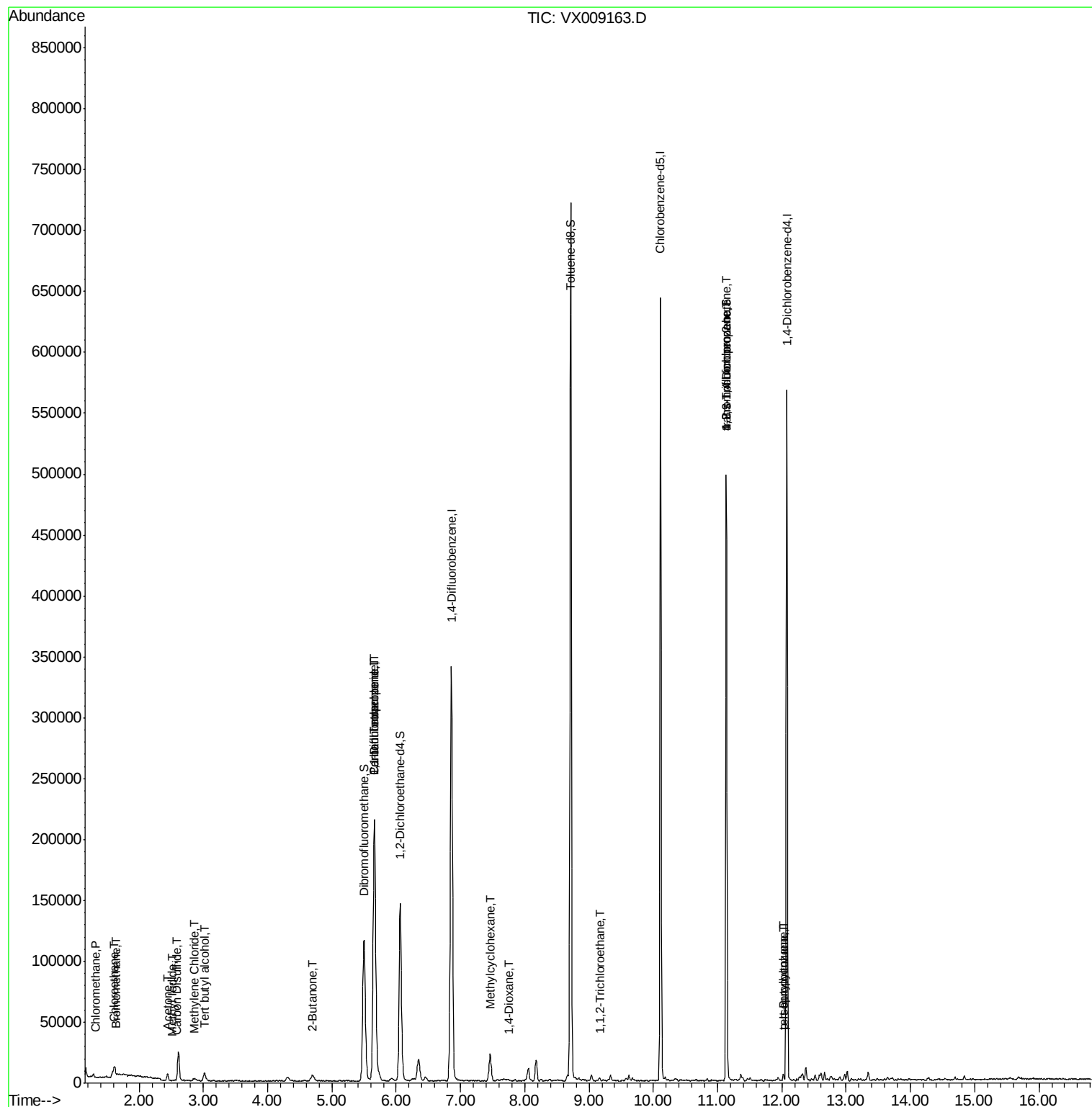
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	690	0.237	ug/l #	82
5) Bromomethane	1.65	94	335	4.023	ug/l #	46
6) Chloroethane	1.61	64	4416	2.655	ug/l #	60
10) Methyl Iodide	2.52	142	136	4.468	ug/l #	42
11) Tert butyl alcohol	3.01	59	4354	6.771	ug/l #	73
16) Acetone	2.44	43	5813	3.870	ug/l	93
17) Carbon Disulfide	2.57	76	805	1.374	ug/l #	81
20) Methylene Chloride	2.86	84	816	0.318	ug/l #	90
25) 2-Butanone	4.71	43	1853	0.772	ug/l	96
28) Bromochloromethane	5.00	49	61	Below Cal	#	21
36) 1,1-Dichloropropene	5.66	75	16739	4.899	ug/l #	50
38) Carbon Tetrachloride	5.66	117	19865	6.857	ug/l #	17
39) Methylcyclohexane	7.46	83	9148	2.199	ug/l	89
49) 1,4-Dioxane	7.76	88	19	0.290	ug/l #	19
55) 1,1,2-Trichloroethane	9.16	97	789	0.330	ug/l #	18
76) 1,2,3-Trichloropropane	11.13	75	66493	24.151	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	66493	62.003	ug/l #	11
83) tert-Butylbenzene	12.02	119	1983	0.288	ug/l	68
86) p-Isopropyltoluene	12.02	119	2059	0.273	ug/l	91

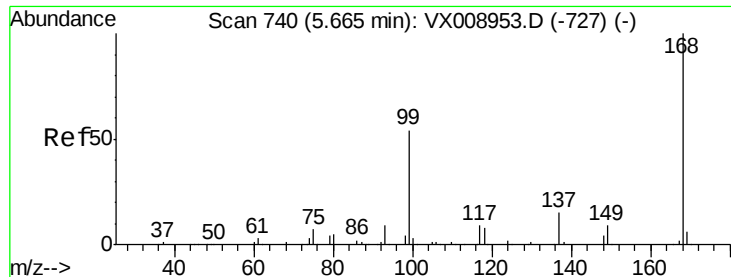
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009163.D

Acq: 25 Apr 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

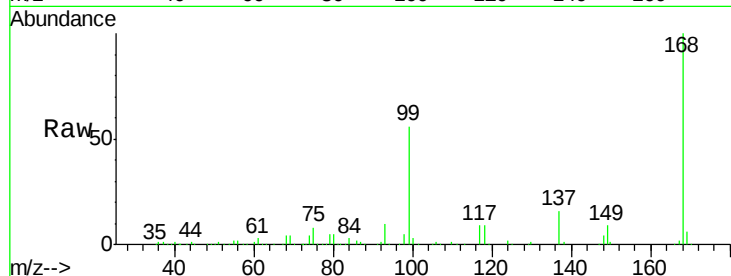
S37-0016

Tot Ion:168 Resp: 205554

Ion Ratio Lower Upper

168 100

99 55.9 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

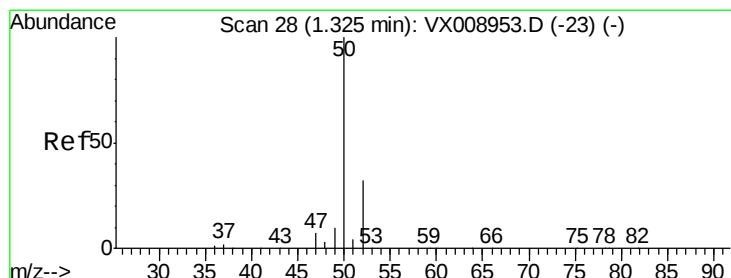
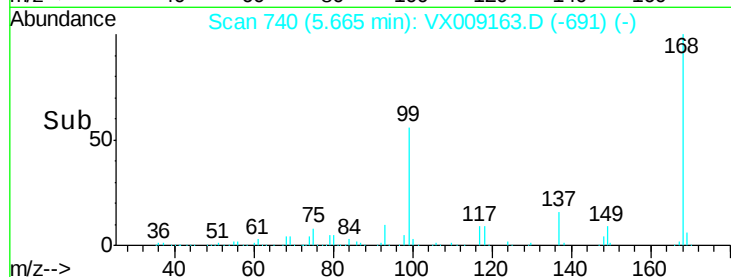
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.237 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009163.D

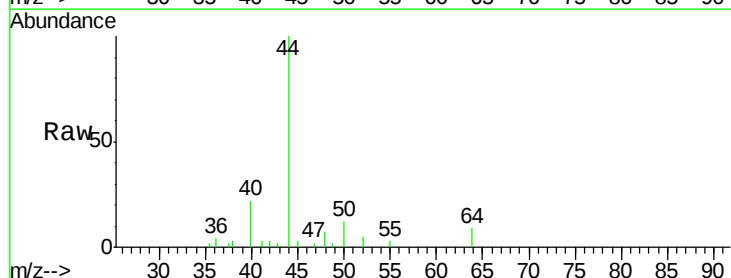
Acq: 25 Apr 2019 15:32

Tgt Ion: 50 Resp: 690

Ion Ratio Lower Upper

50 100

52 21.6 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

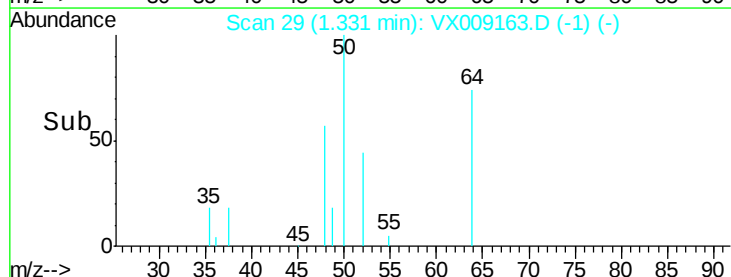
300

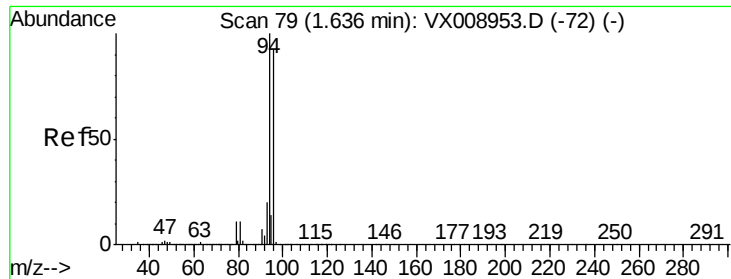
200

100

0

Time--> 1.25 1.30 1.35





#5

Bromomethane

Concen: 4.023 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009163.D

Acq: 25 Apr 2019 15:32

Instrument :

MSVOA_X

ClientSampled :

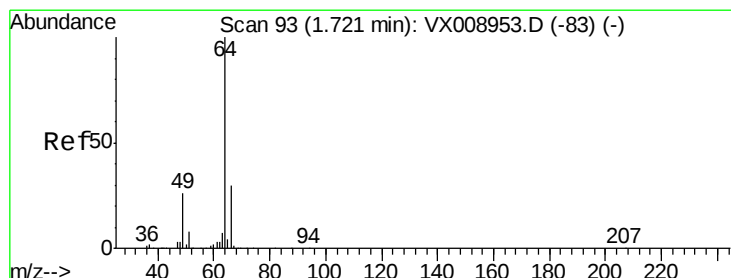
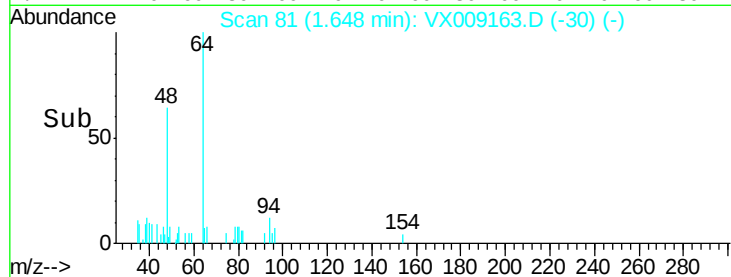
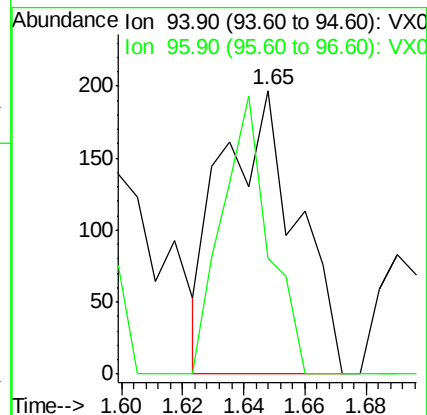
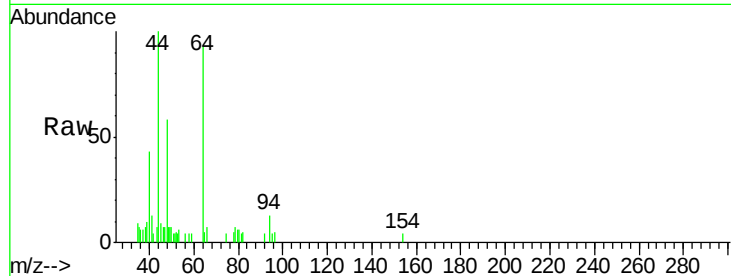
S37-0016

Tot Ion: 94 Resp: 335

Ion Ratio Lower Upper

94 100

96 40.6 73.9 110.9#



#6

Chloroethane

Concen: 2.655 ug/l

RT: 1.61 min Scan# 75

Delta R.T. -0.11 min

Lab File: VX009163.D

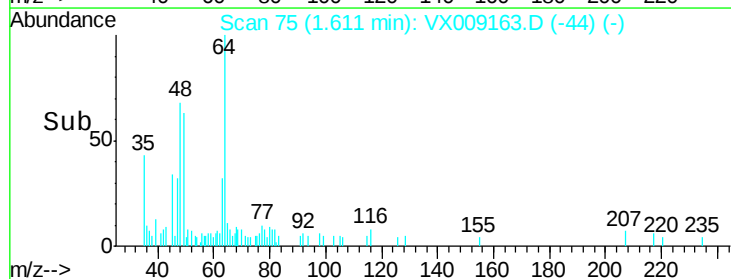
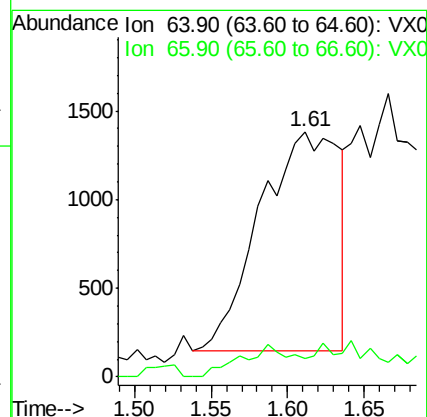
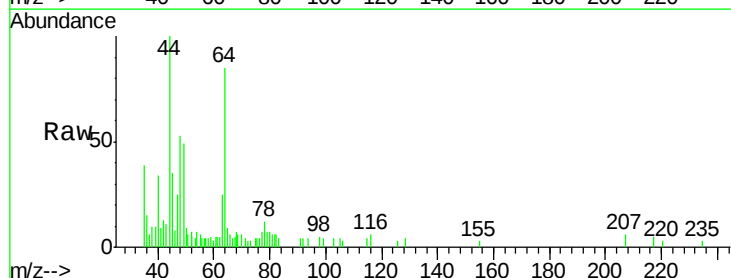
Acq: 25 Apr 2019 15:32

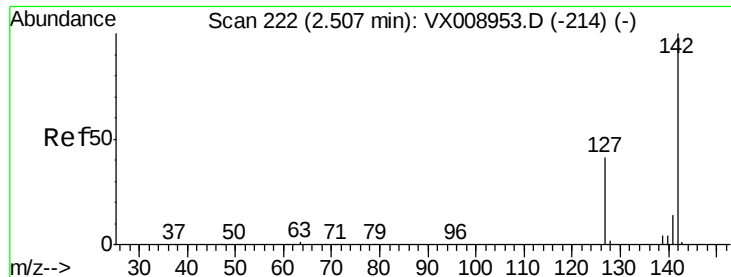
Tgt Ion: 64 Resp: 4416

Ion Ratio Lower Upper

64 100

66 8.4 24.2 36.2#

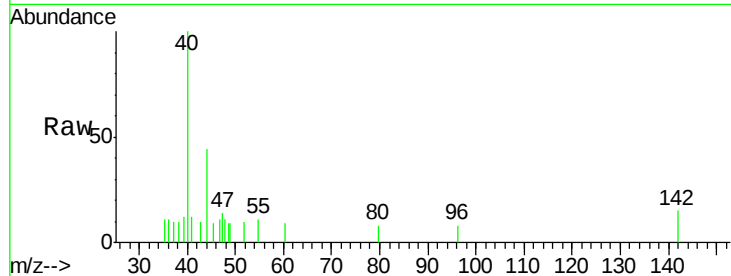




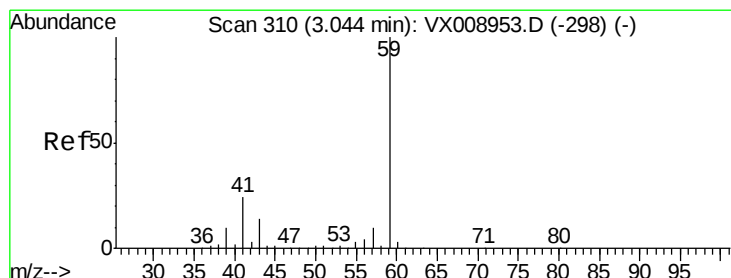
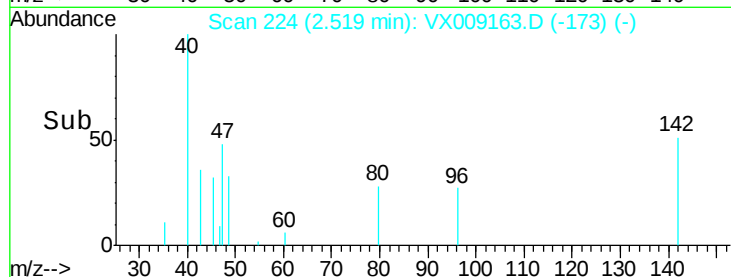
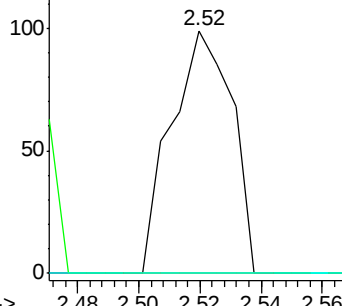
#10
Methvl Iodide
Concen: 4.468 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009163.D
Acq: 25 Apr 2019 15:32

Instrument :
MSVOA_X
ClientSampleId :
S37-0016

Tot Ion:142 Resp: 136
Ion Ratio Lower Upper
142 100
127 0.0 32.8 49.2#
141 0.0 11.4 17.2#

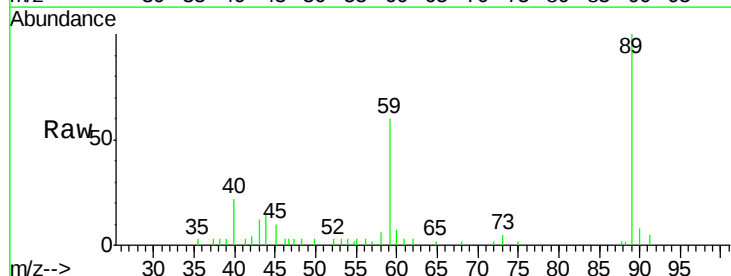


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

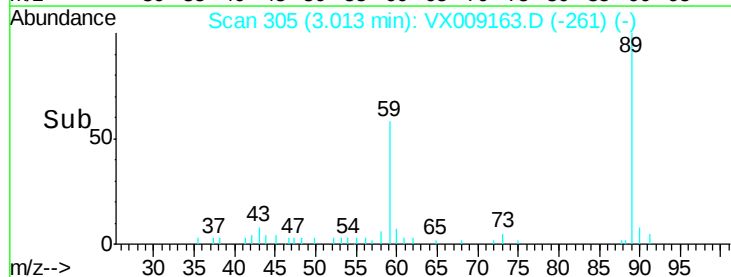
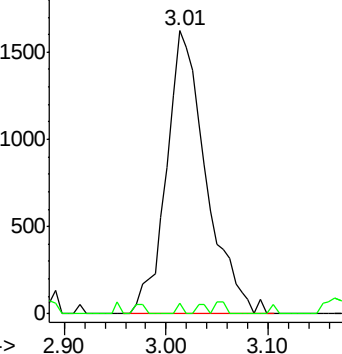


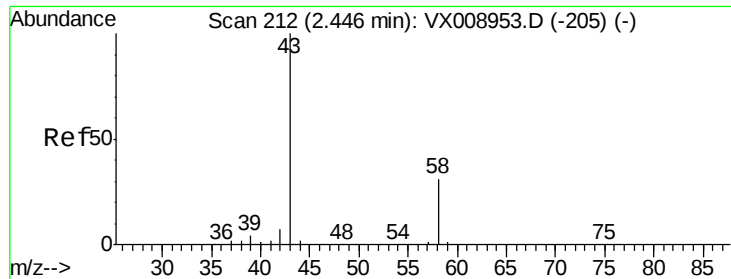
#11
Tert butyl alcohol
Concen: 6.771 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.03 min
Lab File: VX009163.D
Acq: 25 Apr 2019 15:32

Tgt Ion: 59 Resp: 4354
Ion Ratio Lower Upper
59 100
57 0.5 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 3.870 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009163.D

Acq: 25 Apr 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

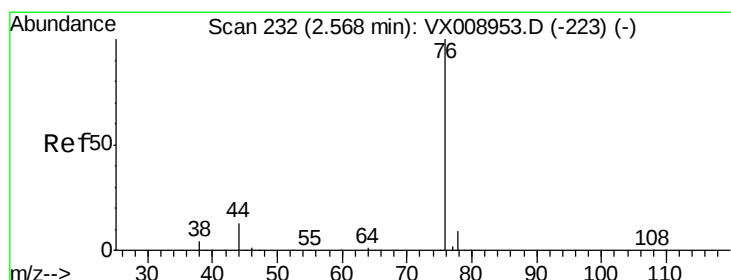
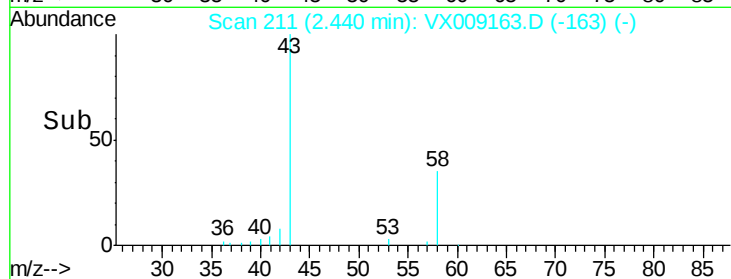
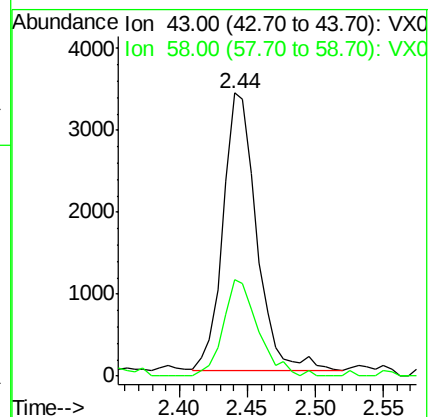
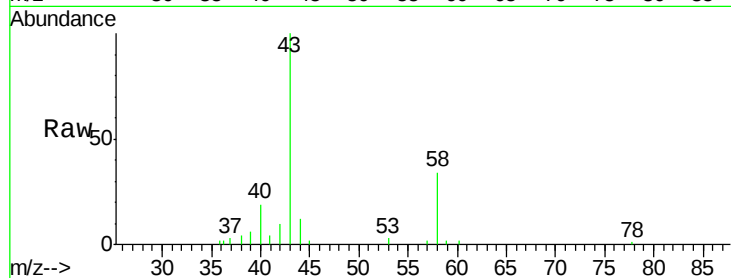
S37-0016

Tot Ion: 43 Resp: 5813

Ion Ratio Lower Upper

43 100

58 34.9 24.8 37.2



#17

Carbon Disulfide

Concen: 1.374 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009163.D

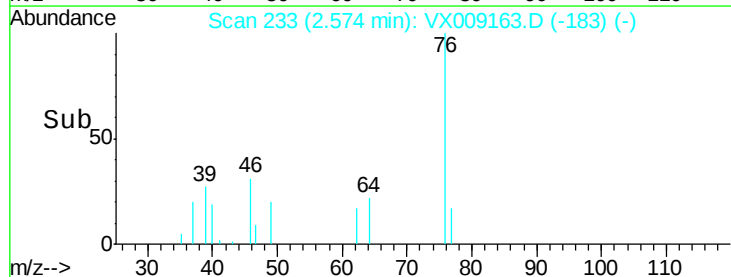
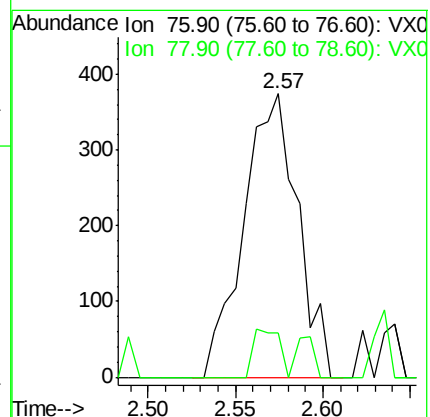
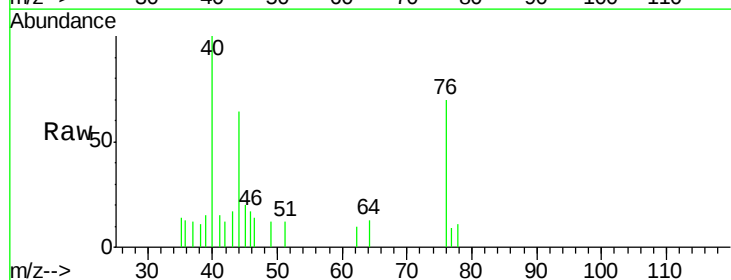
Acq: 25 Apr 2019 15:32

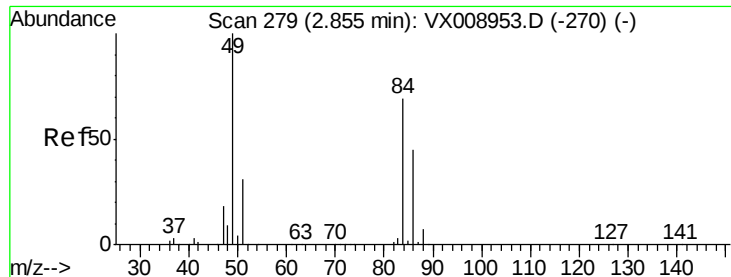
Tgt Ion: 76 Resp: 805

Ion Ratio Lower Upper

76 100

78 15.8 7.2 10.8#

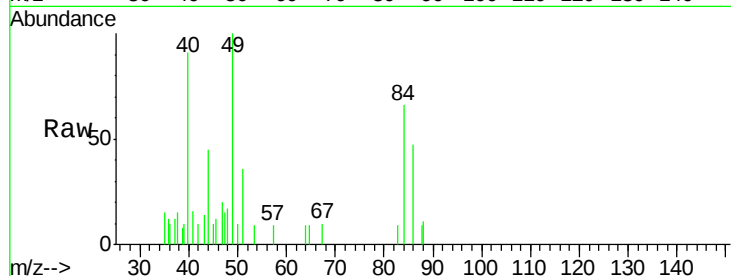




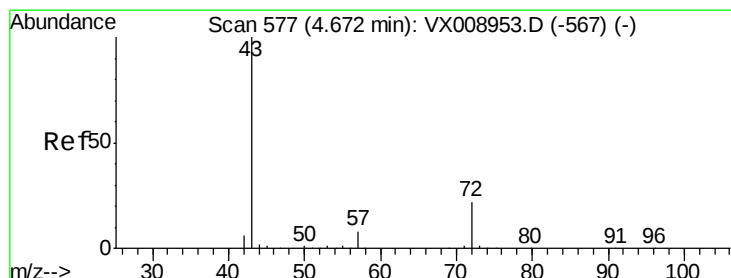
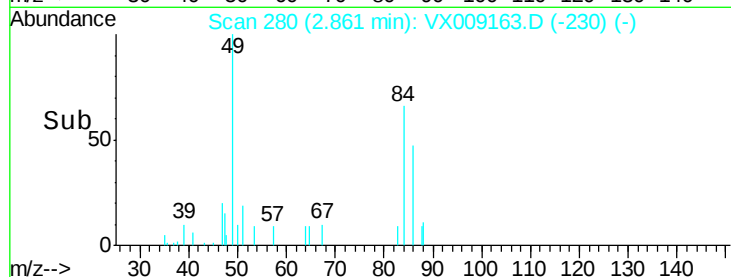
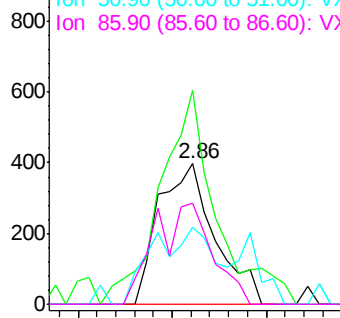
#20
Methvlene Chloride
Concen: 0.318 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009163.D
Acq: 25 Apr 2019 15:32

Instrument :
MSVOA_X
ClientSampleId :
S37-0016

Tot Ion: 84 Resp: 816
Ion Ratio Lower Upper
84 100
49 133.5 115.4 173.0
51 54.9 35.8 53.6#
86 71.8 52.1 78.1

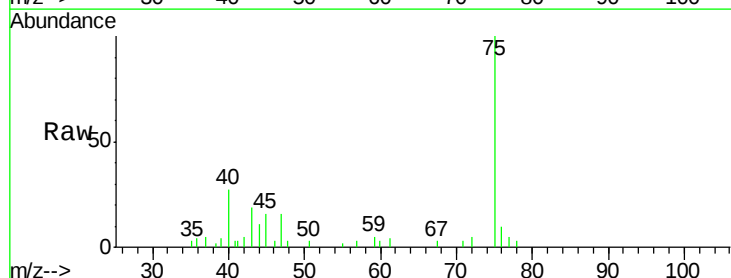


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

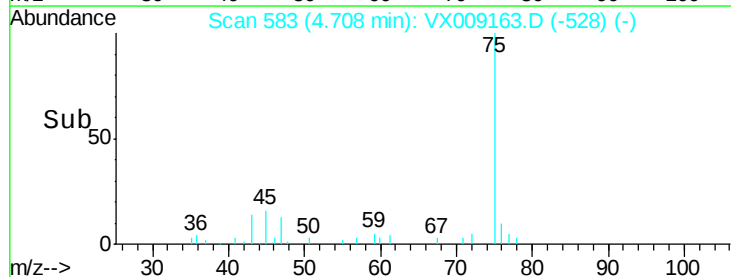
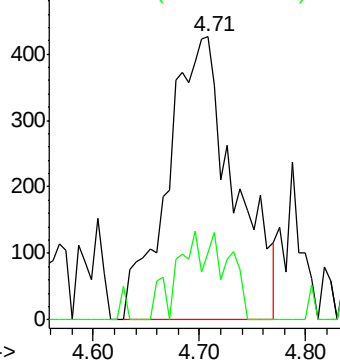


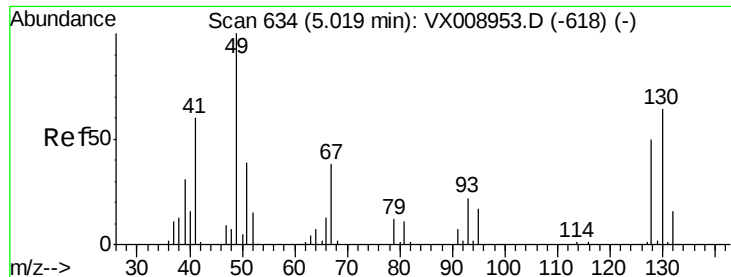
#25
2-Butanone
Concen: 0.772 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.04 min
Lab File: VX009163.D
Acq: 25 Apr 2019 15:32

Tgt Ion: 43 Resp: 1853
Ion Ratio Lower Upper
43 100
72 23.7 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

Delta R.T. -0.02 min

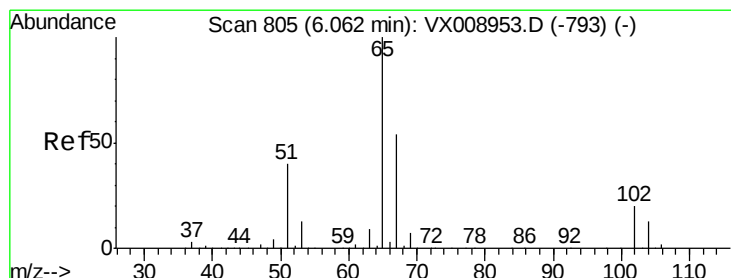
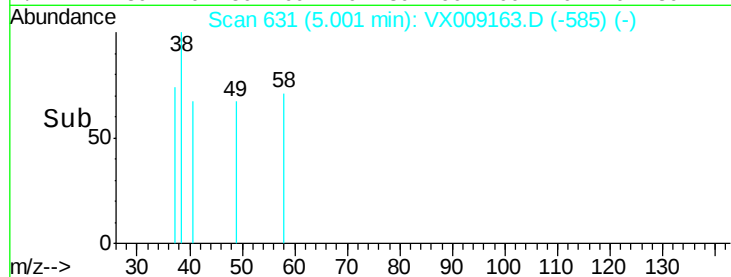
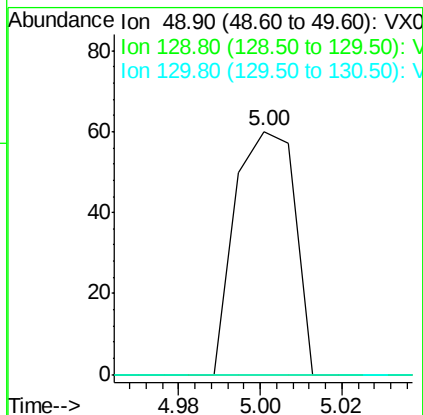
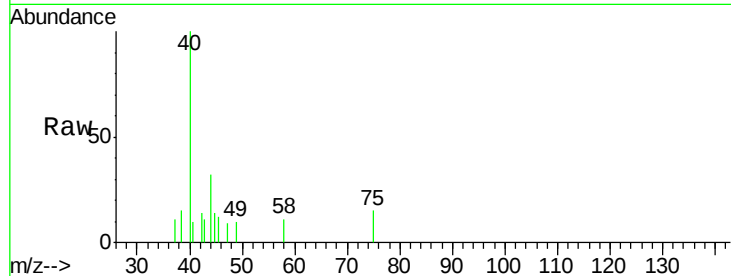
Lab File: VX009163.D

Acq: 25 Apr 2019 15:32

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Tot Ion: 49 Resp: 61

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	50.4	75.6



#33

1,2-Dichloroethane-d4

Concen: 47.868 ug/l

RT: 6.06 min Scan# 805

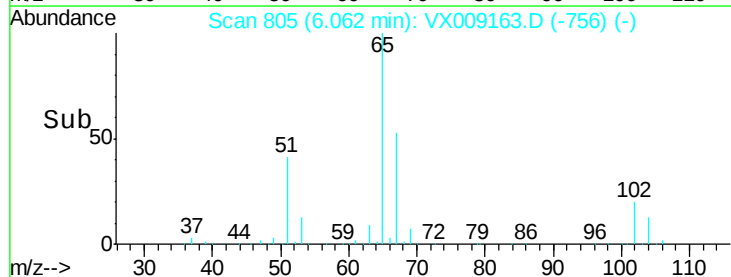
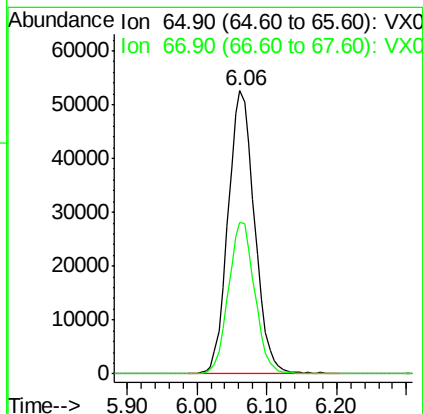
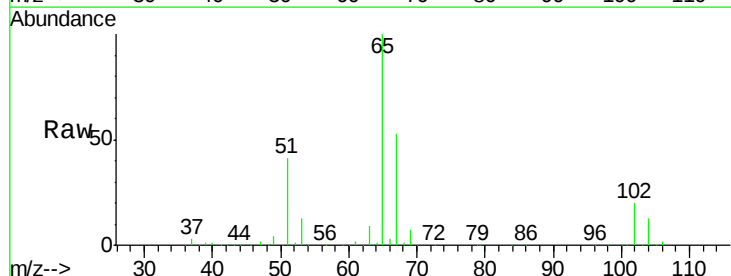
Delta R.T. -0.00 min

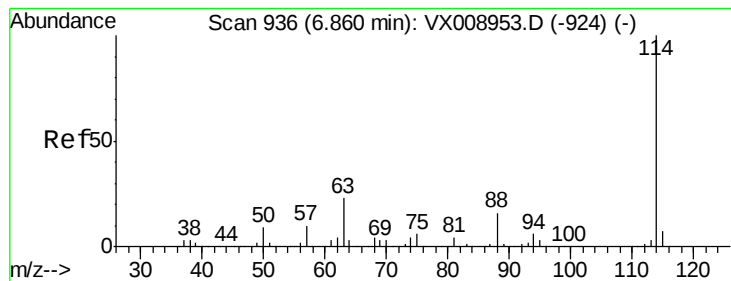
Lab File: VX009163.D

Acq: 25 Apr 2019 15:32

Tgt Ion: 65 Resp: 138667

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	108.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009163.D

Acq: 25 Apr 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

S37-0016

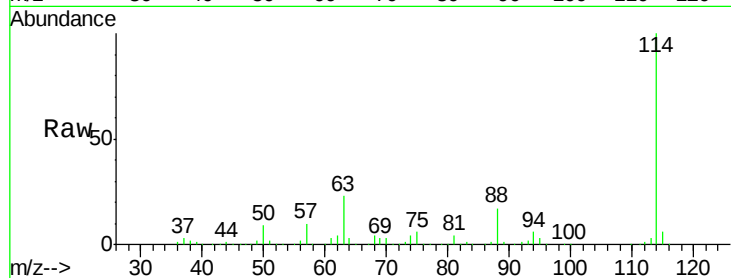
Tot Ion:114 Resp: 330404

Ion Ratio Lower Upper

114 100

63 22.7 0.0 46.0

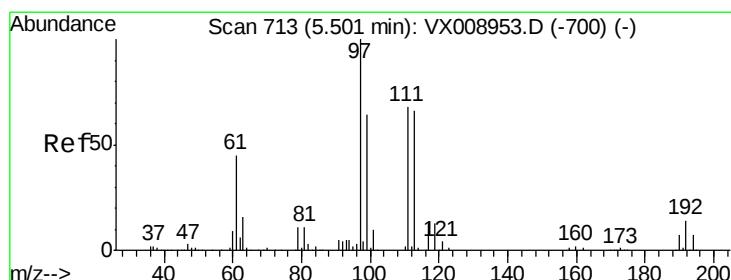
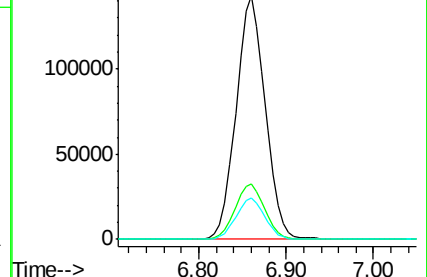
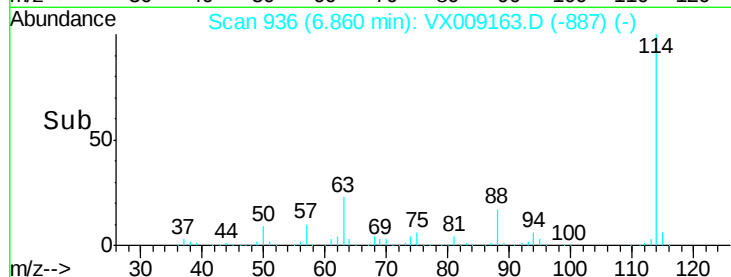
88 16.9 0.0 32.6



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: 47.560 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009163.D

Acq: 25 Apr 2019 15:32

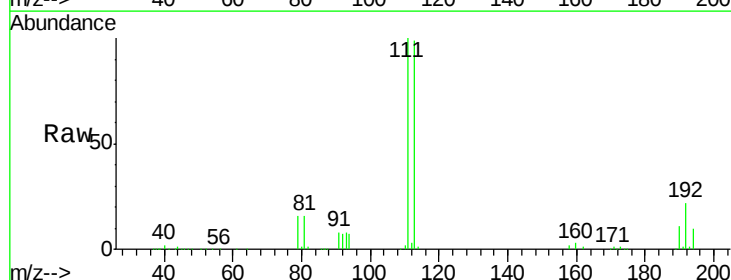
Tgt Ion:113 Resp: 100849

Ion Ratio Lower Upper

113 100

111 103.5 82.9 124.3

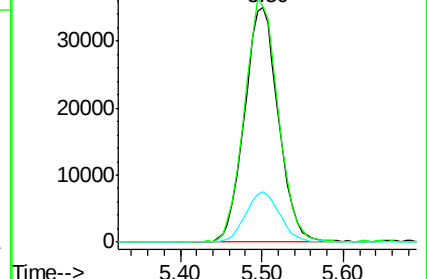
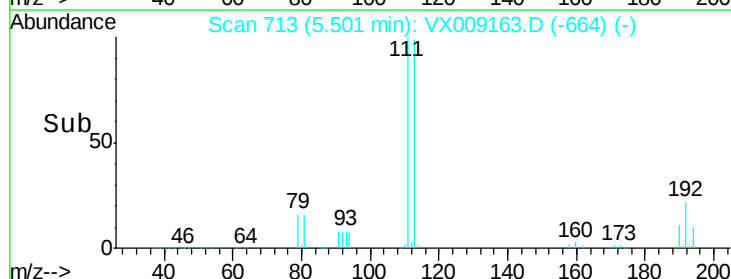
192 21.7 17.4 26.0

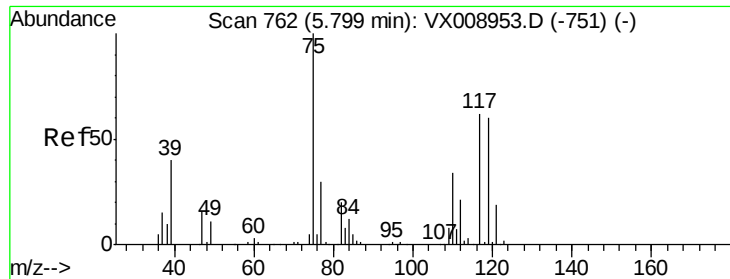


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

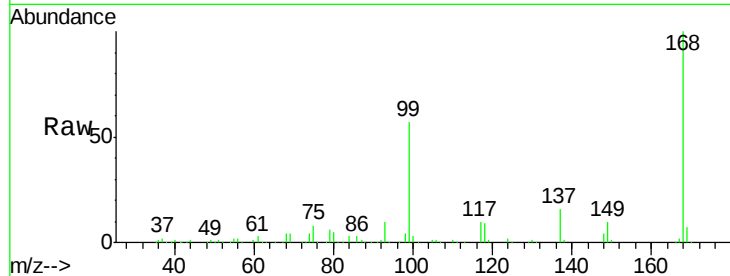




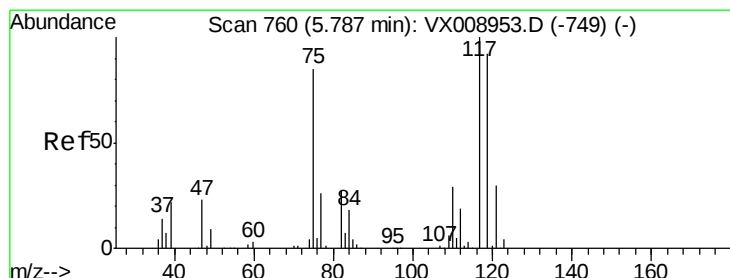
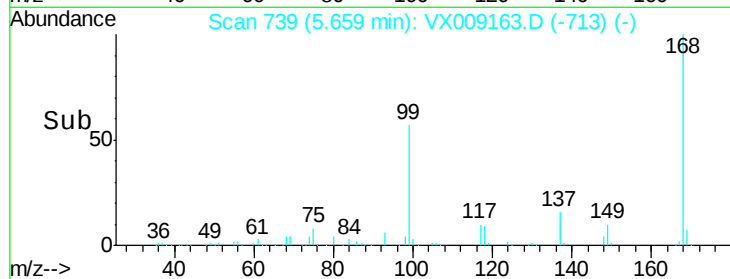
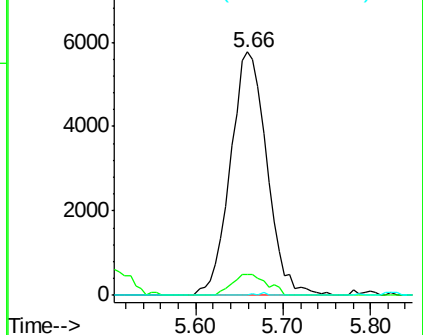
#36
 1,1-Dichloropropene
 Concen: 4.899 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009163.D
 Acq: 25 Apr 2019 15:32

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-0016

Tot Ion	75	Resp	16739
Ion Ratio	100	Lower	Upper
110	8.2	16.9	50.7#
77	0.1	25.0	37.4#

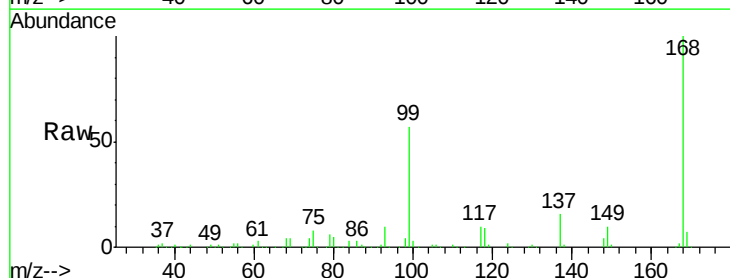


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

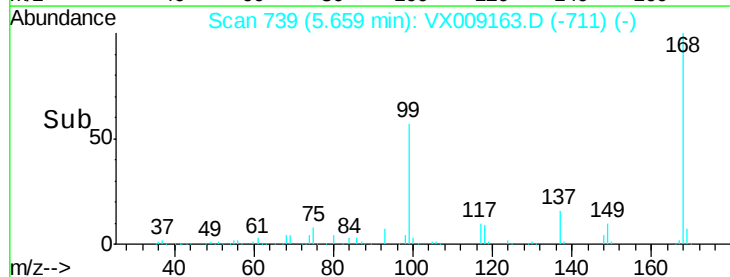
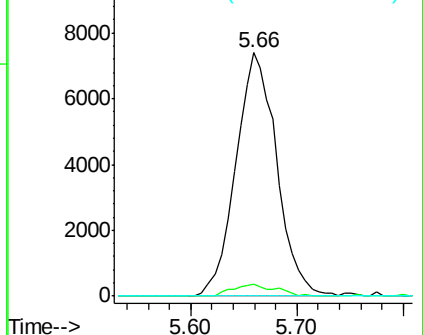


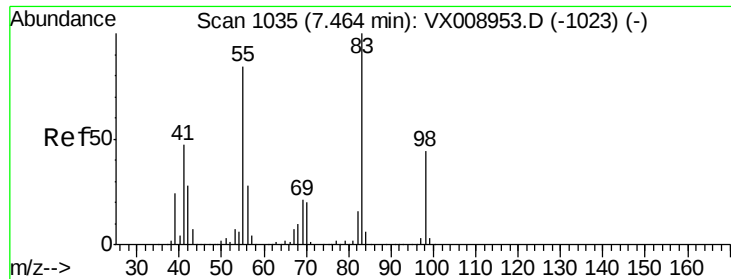
#38
 Carbon Tetrachloride
 Concen: 6.857 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX009163.D
 Acq: 25 Apr 2019 15:32

Tgt Ion	117	Resp	19865
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
119	4.9	73.8	110.8#
121	0.0	23.6	35.4#



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

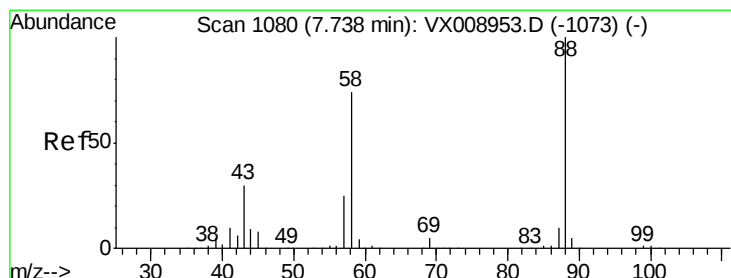
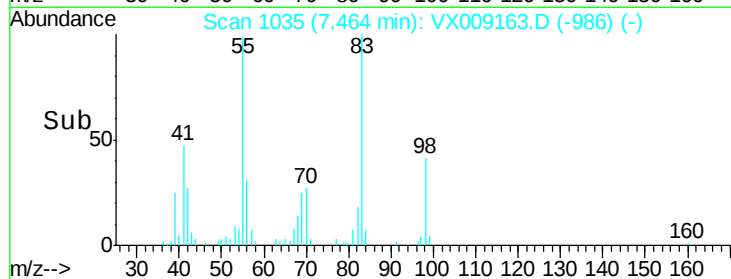
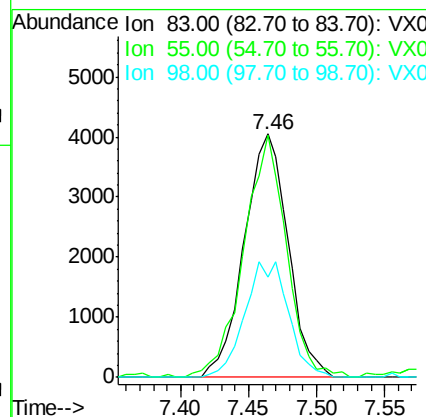
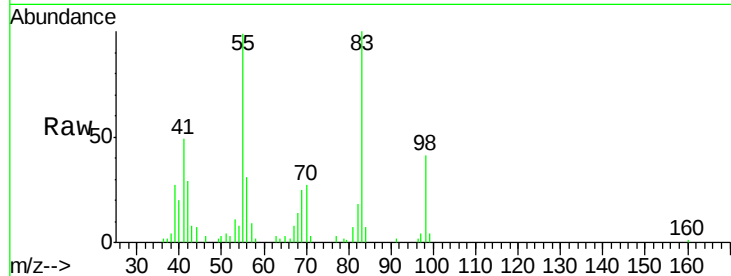




#39
Methvlcvclohexane
Concen: 2.199 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VX009163.D
Acq: 25 Apr 2019 15:32

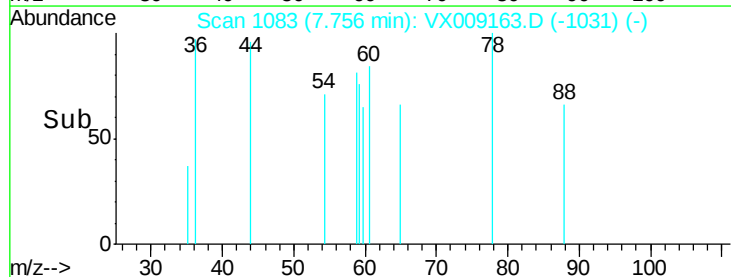
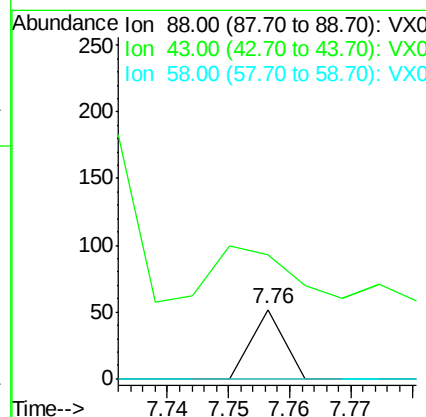
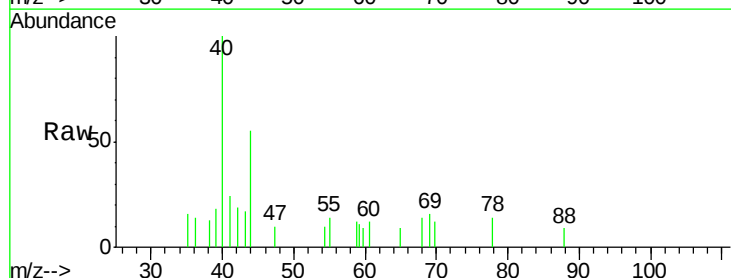
Instrument :
MSVOA_X
ClientSampled :
S37-0016

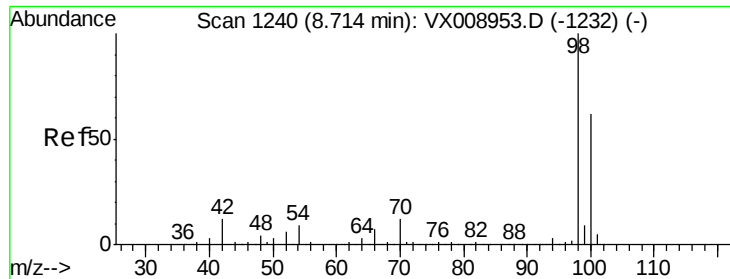
Tot Ion: 83 Resp: 9148
Ion Ratio Lower Upper
83 100
55 97.5 67.1 100.7
98 41.0 35.1 52.7



#49
1,4-Dioxane
Concen: 0.290 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.02 min
Lab File: VX009163.D
Acq: 25 Apr 2019 15:32

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 29.3 43.9#
58 0.0 62.6 93.8#





#50

Toluene-d8

Concen: 48.557 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009163.D

Acq: 25 Apr 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

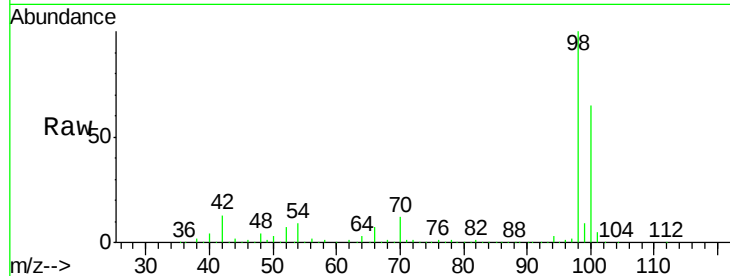
S37-0016

Tot Ion: 98 Resp: 410625

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

250000

200000

150000

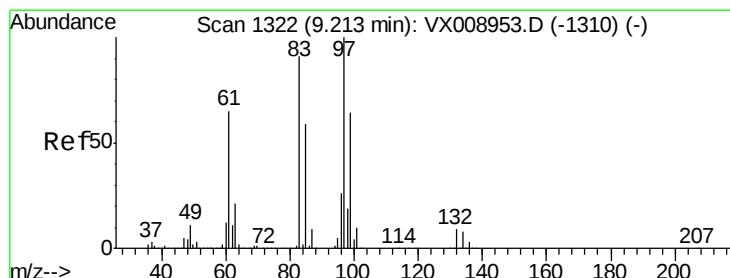
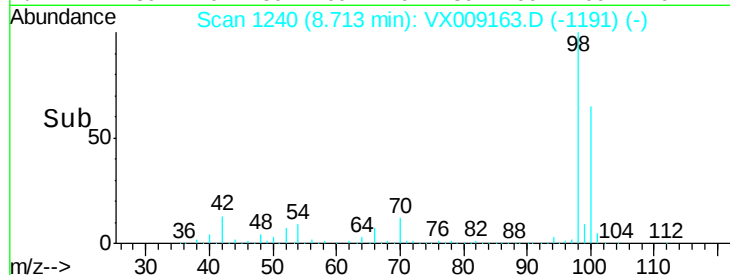
100000

50000

0

Time-->

8.60 8.70 8.80



#55

1,1,2-Trichloroethane

Concen: 0.330 ug/l

RT: 9.16 min Scan# 1314

Delta R.T. -0.05 min

Lab File: VX009163.D

Acq: 25 Apr 2019 15:32

Tgt Ion: 97 Resp: 789

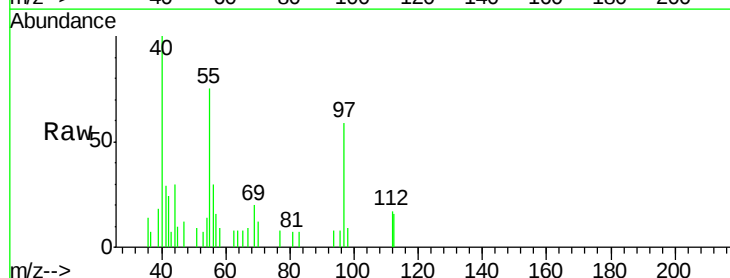
Ion Ratio Lower Upper

97 100

83 11.7 72.6 108.8#

85 0.0 46.9 70.3#

99 0.0 51.0 76.6#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

9.16

600

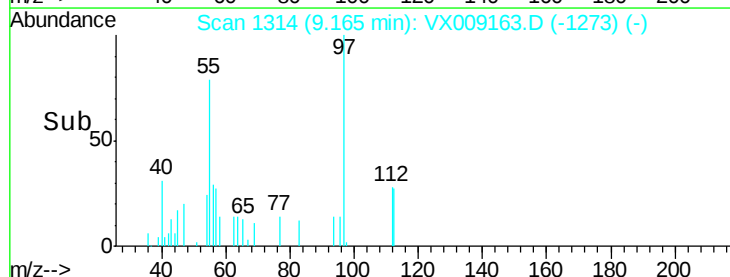
400

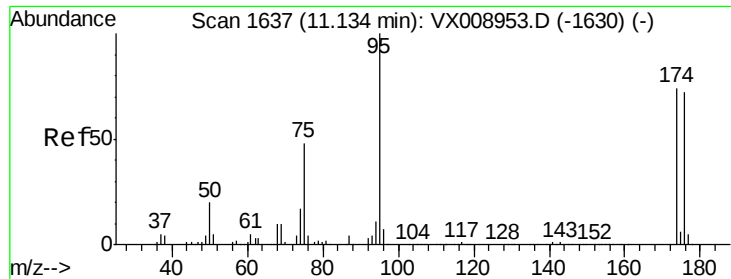
200

0

Time-->

9.10 9.15 9.20

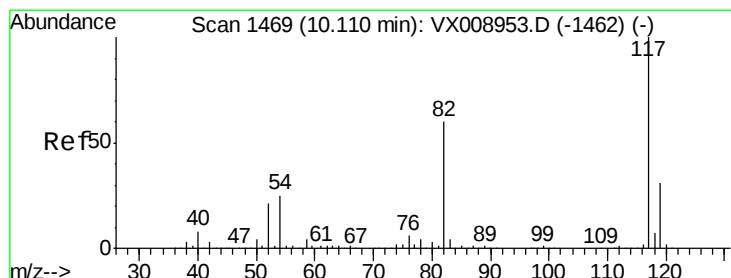
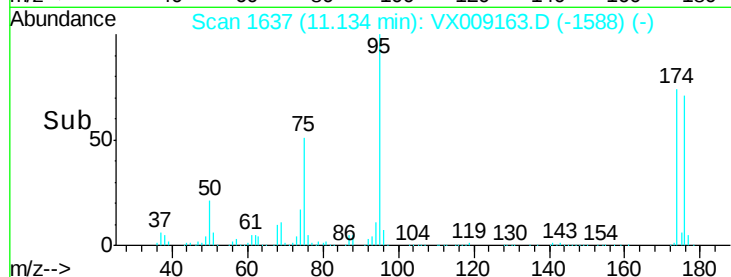
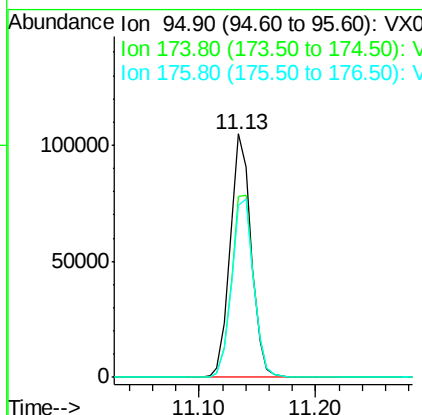
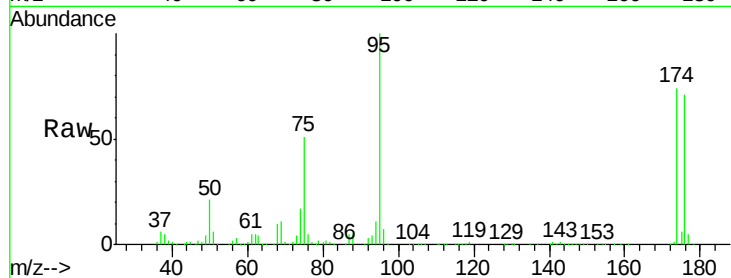




#62
4-Bromofluorobenzene
Concen: 44.088 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX009163.D
Acq: 25 Apr 2019 15:32

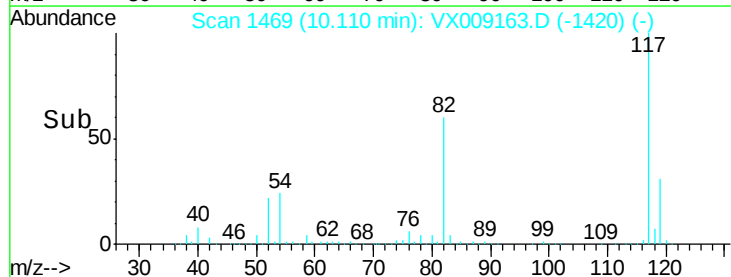
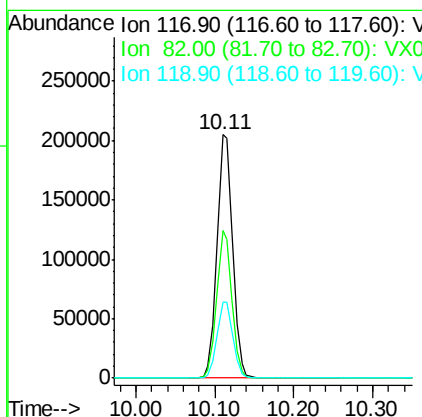
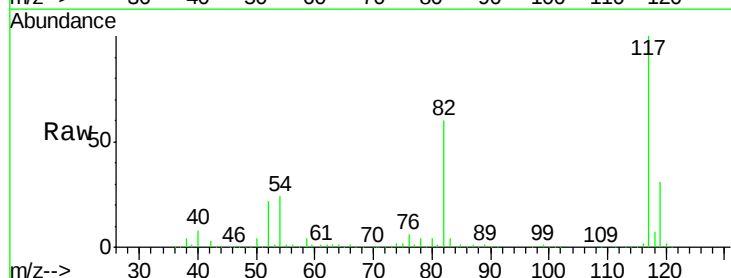
Instrument :
MSVOA_X
ClientSampleId :
S37-0016

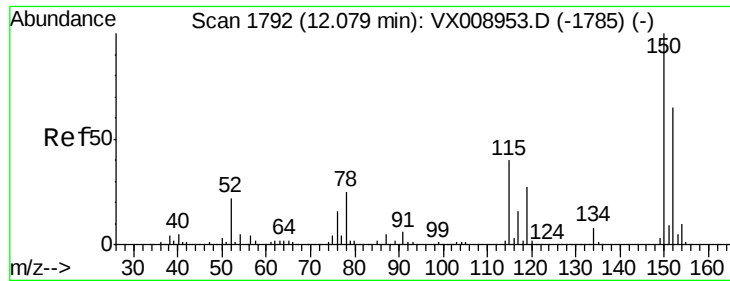
Tot Ion: 95 Resp: 131609
Ion Ratio Lower Upper
95 100
174 79.0 0.0 159.6
176 76.5 0.0 154.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009163.D
Acq: 25 Apr 2019 15:32

Tgt Ion: 117 Resp: 283922
Ion Ratio Lower Upper
117 100
82 60.4 48.2 72.4
119 31.2 25.0 37.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009163.D

Acq: 25 Apr 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

S37-0016

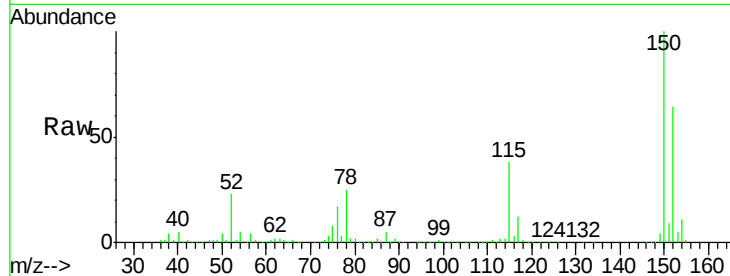
Tot Ion:152 Resp: 112752

Ion Ratio Lower Upper

152 100

115 59.7 41.4 124.2

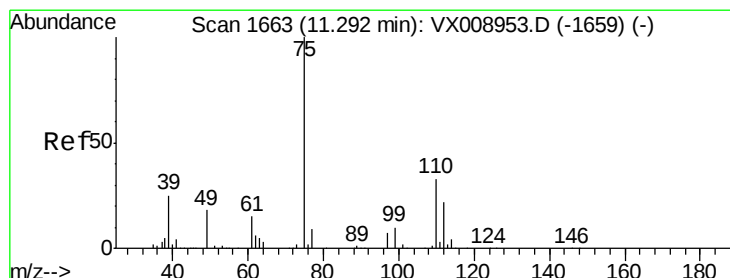
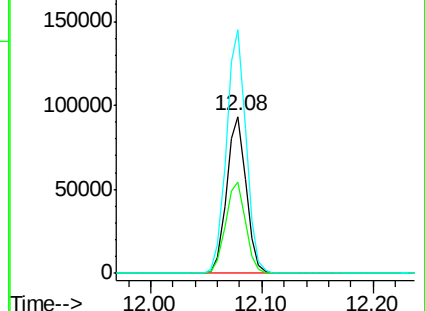
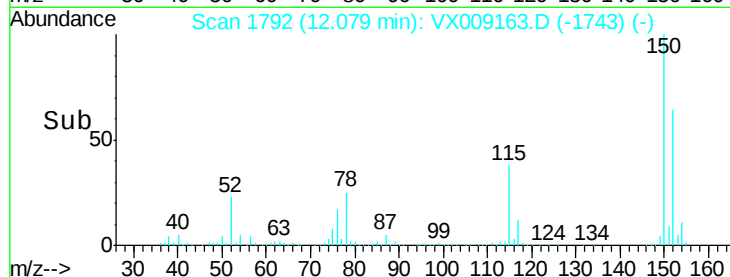
150 156.9 0.0 349.8



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



#76

1,2,3-Trichloropropane

Concen: 24.151 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009163.D

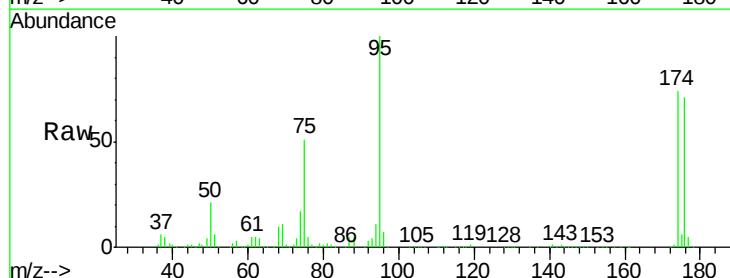
Acq: 25 Apr 2019 15:32

Tgt Ion: 75 Resp: 66493

Ion Ratio Lower Upper

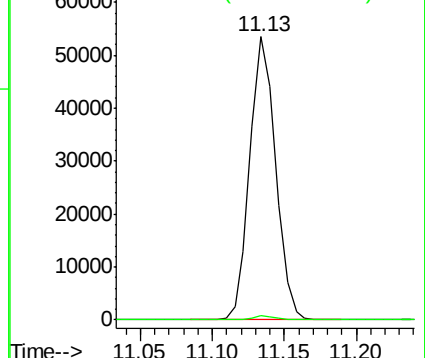
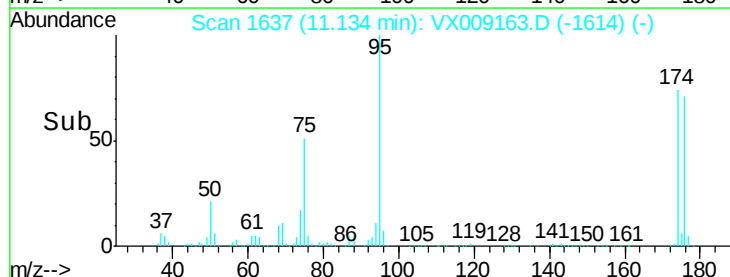
75 100

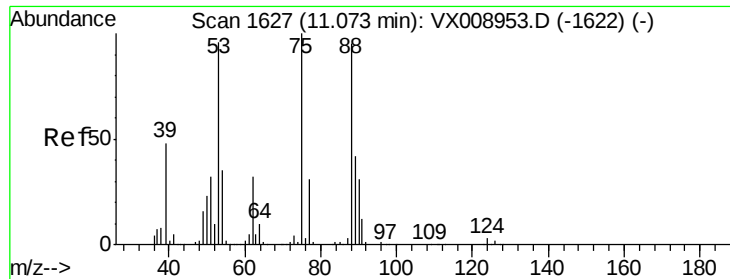
77 1.4 22.7 68.0#



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: 62.003 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009163.D

Acq: 25 Apr 2019 15:32

Instrument :

MSVOA_X

ClientSampleId :

S37-0016

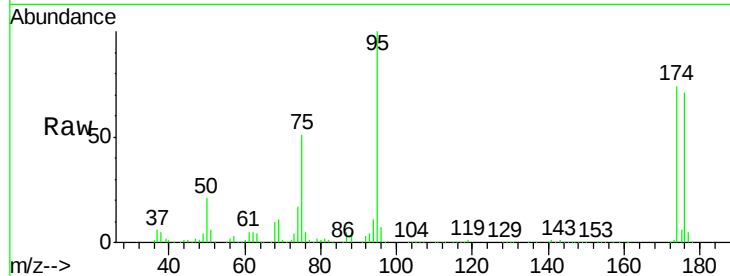
Tot Ion: 75 Resp: 66493

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

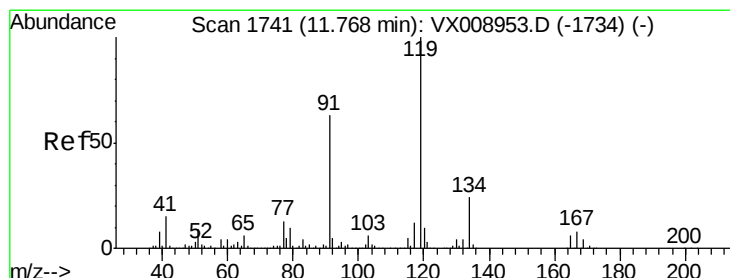
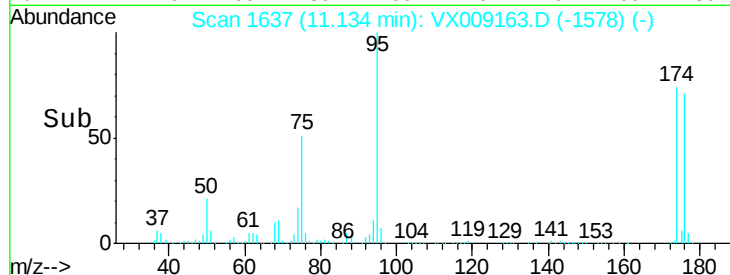
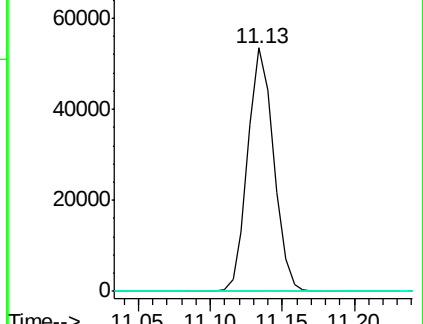
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VX008953.D (-1622) (-)

Ion 53.00 (52.70 to 53.70): VX008953.D (-1622) (-)

Ion 88.90 (88.60 to 89.60): VX008953.D (-1622) (-)



#83

tert-Butylbenzene

Concen: 0.288 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. 0.26 min

Lab File: VX009163.D

Acq: 25 Apr 2019 15:32

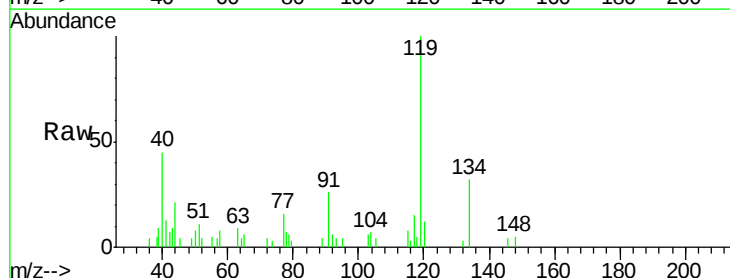
Tgt Ion: 119 Resp: 1983

Ion Ratio Lower Upper

119 100

91 30.2 29.7 89.1

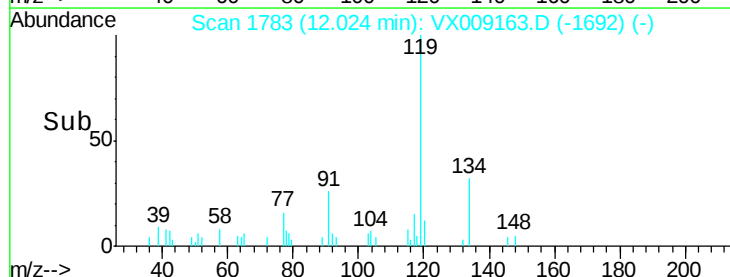
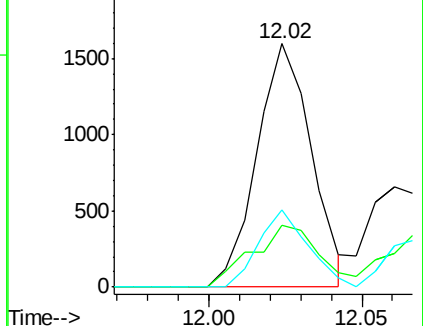
134 28.7 11.2 33.5

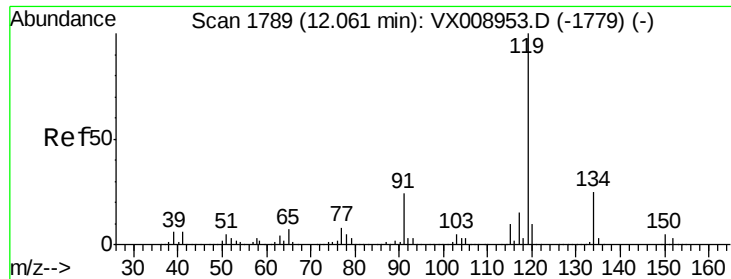


Abundance Ion 119.00 (118.70 to 119.70): VX008953.D (-1734) (-)

Ion 91.00 (90.70 to 91.70): VX008953.D (-1734) (-)

Ion 134.00 (133.70 to 134.70): VX008953.D (-1734) (-)





#86
 p-Isopropyltoluene
 Concen: 0.273 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.04 min
 Lab File: VX009163.D
 Acq: 25 Apr 2019 15:32

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-0016

Tot Ion:	119	Resp:	2059
Ion	Ratio	Lower	Upper
119	100		
134	27.7	12.9	38.6
91	30.5	11.9	35.5

