

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020819\
 Data File : VU029379.D
 Acq On : 08 Feb 2019 15:01
 Operator : JC/SP
 Sample : K1161-07
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

Quant Time: Feb 09 03:42:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U020519DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Feb 08 10:52:46 2019
 Response via : Initial Calibration

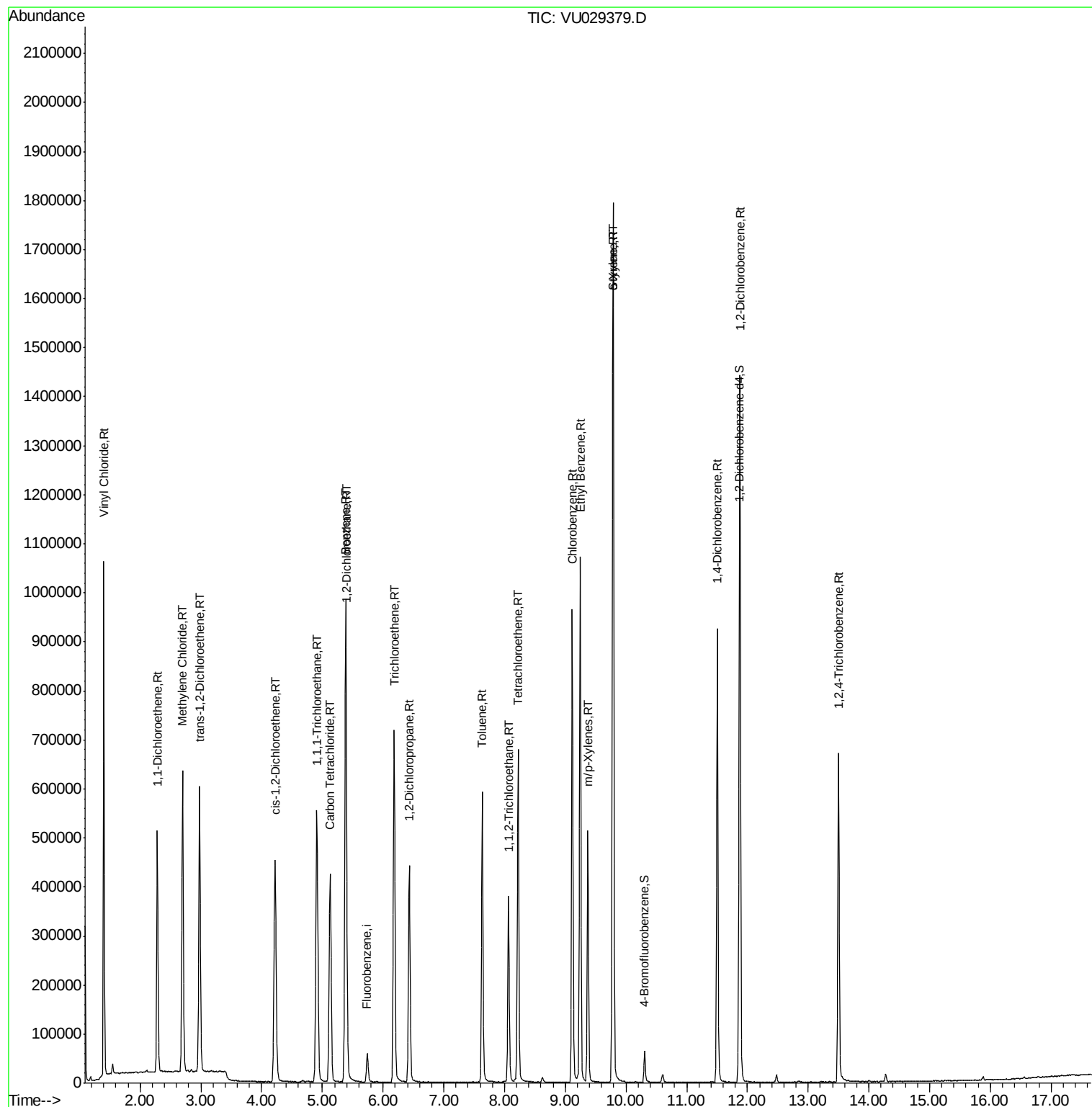
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	57053	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	21535	0.97	ug/l	0.00
Spiked Amount 1.000			Recovery	=	97.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	23955	1.05	ug/l	0.00
Spiked Amount 1.000			Recovery	=	105.00%	
Target Compounds					Ovalue	
4) Vinyl Chloride	1.40	62	643980	28.233	ug/l	98
9) 1,1-Dichloroethene	2.28	96	163710	9.947	ug/l	69
15) Methylene Chloride	2.70	84	271254	13.592	ug/l #	77
16) trans-1,2-Dichloroethene	2.98	96	231198	12.562	ug/l #	77
22) cis-1,2-Dichloroethene	4.22	96	268023	15.459	ug/l	66
28) 1,1,1-Trichloroethane	4.91	97	441299	16.786	ug/l	95
30) Carbon Tetrachloride	5.13	117	316662	13.305	ug/l	100
35) Benzene	5.39	78	981654	15.554	ug/l	98
36) 1,2-Dichloroethane	5.40	62	52464	2.748	ug/l #	92
37) Trichloroethene	6.18	130	268115	14.804	ug/l	86
38) 1,2-Dichloropropane	6.43	63	175346	10.680	ug/l	100
49) Toluene	7.63	92	256350	6.347	ug/l	98
52) 1,1,2-Trichloroethane	8.06	97	122296	10.558	ug/l	98
58) Tetrachloroethene	8.22	164	160991	9.553	ug/l	92
59) Chlorobenzene	9.12	112	542143	11.916	ug/l	100
63) Ethyl Benzene	9.25	91	759702	9.615	ug/l	95
64) m/p-Xylenes	9.37	106	153461	4.998	ug/l	86
65) o-Xylene	9.78	106	86858	2.882	ug/l	85
66) Styrene	9.79	104	826411	16.449	ug/l #	84
83) 1,4-Dichlorobenzene	11.50	146	395448	10.369	ug/l	97
85) 1,2-Dichlorobenzene	11.88	146	621895	17.177	ug/l	96
87) 1,2,4-Trichlorobenzene	13.50	180	229960	9.043	ug/l	98
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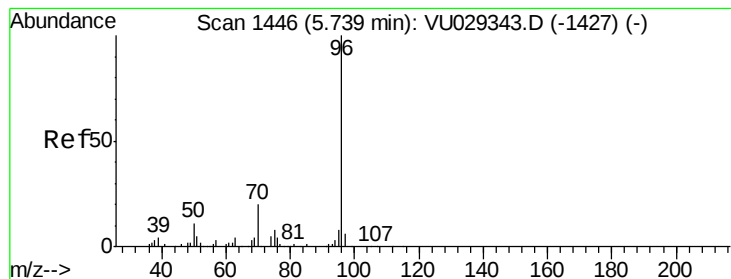
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Feb 08 10:52:46 2019
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU029379.D

Acq: 08 Feb 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

Tot Ion: 96 Resp: 57053

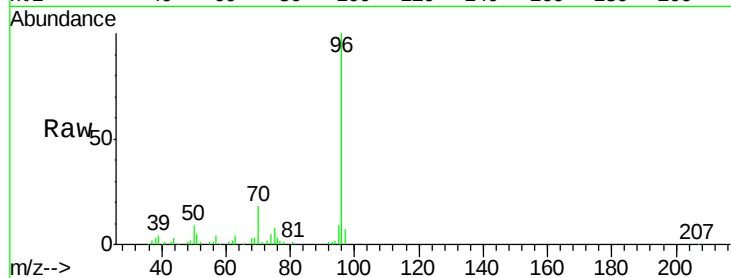
Ion Ratio Lower Upper

96 100

70 18.0 16.2 24.2

95 9.5 7.4 11.2

97 0.0 0.0 0.0

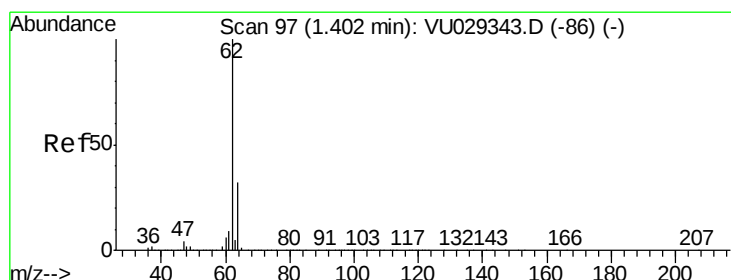
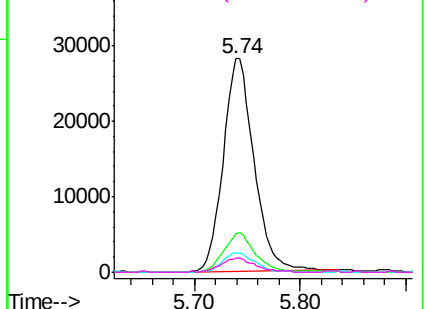
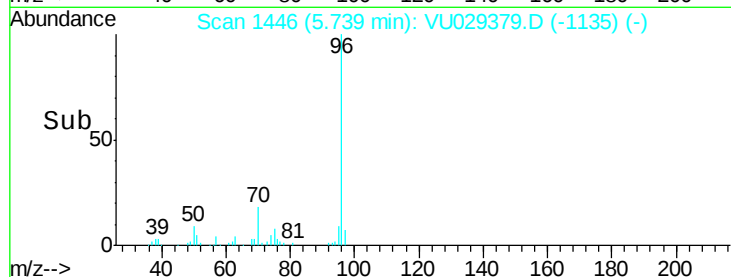


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#4

Vinyl Chloride

Concen: 28.233 ug/l

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029379.D

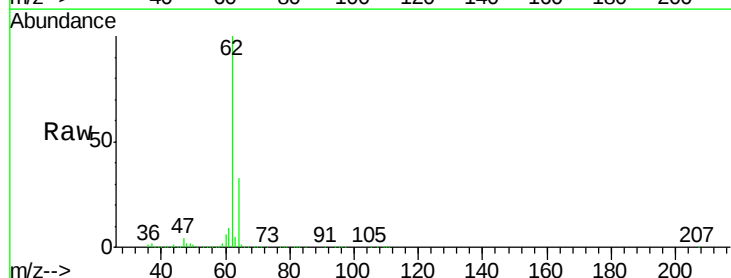
Acq: 08 Feb 2019 15:01

Tgt Ion: 62 Resp: 643980

Ion Ratio Lower Upper

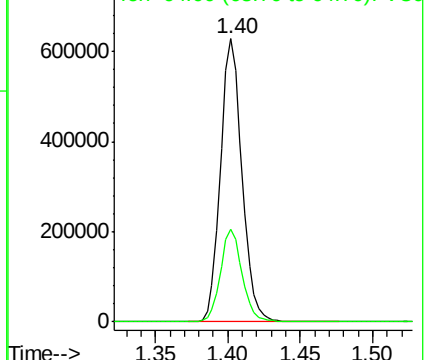
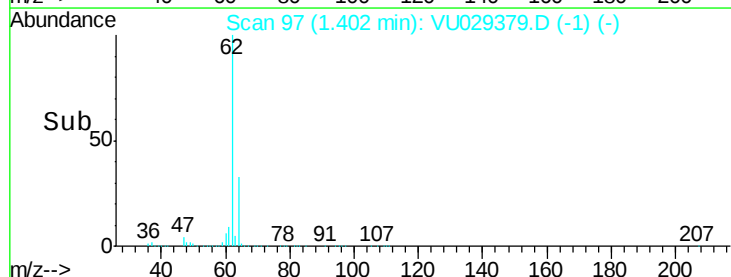
62 100

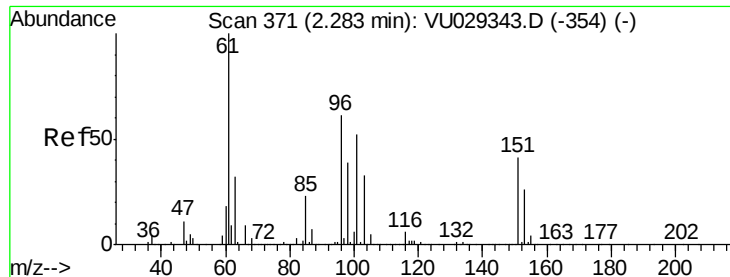
64 32.7 25.2 37.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#9

1,1-Dichloroethene

Concen: 9.947 ug/l

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029379.D

Acq: 08 Feb 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

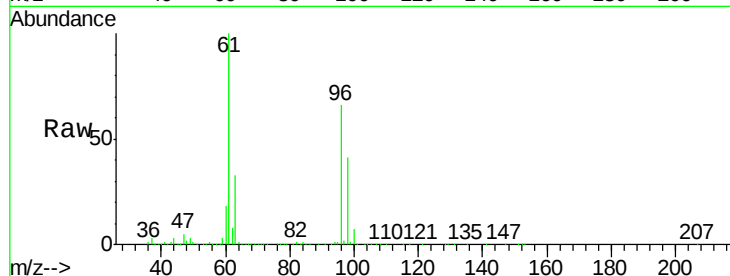
Tot Ion: 96 Resp: 163710

Ion Ratio Lower Upper

96 100

61 152.2 0.0 641.4

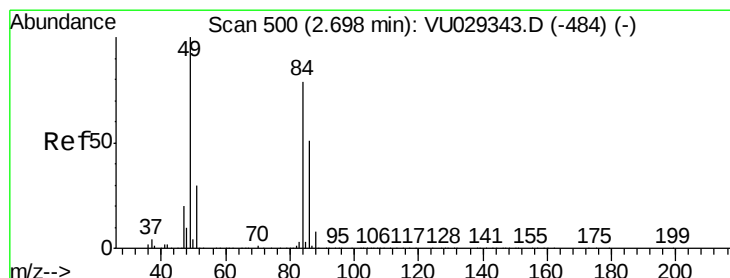
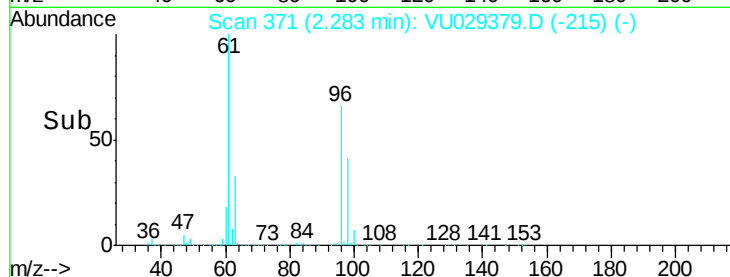
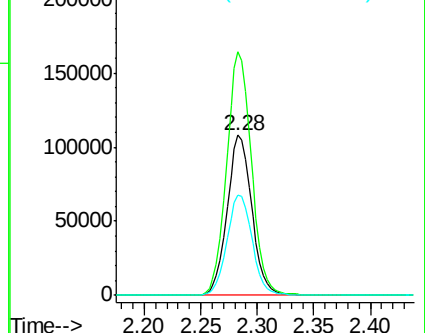
98 62.7 0.0 122.6



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#15

Methylene Chloride

Concen: 13.592 ug/l

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU029379.D

Acq: 08 Feb 2019 15:01

Tgt Ion: 84 Resp: 271254

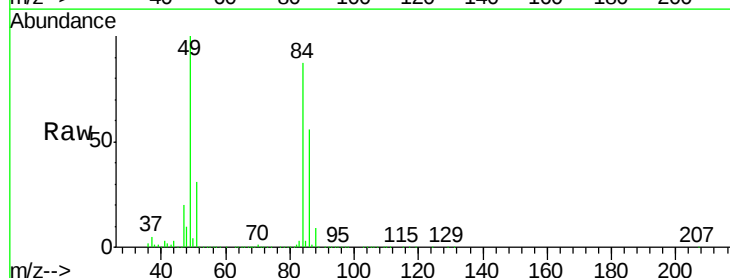
Ion Ratio Lower Upper

84 100

49 115.3 127.0 190.6#

51 35.7 0.0 93.4

86 64.3 50.6 75.8

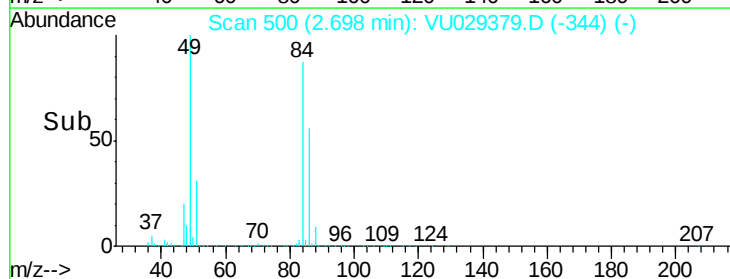
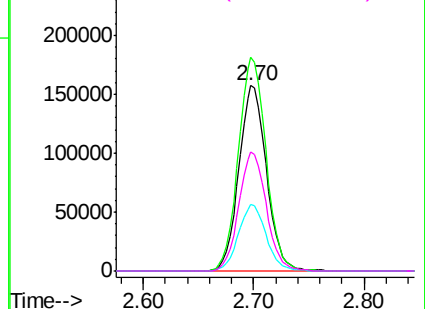


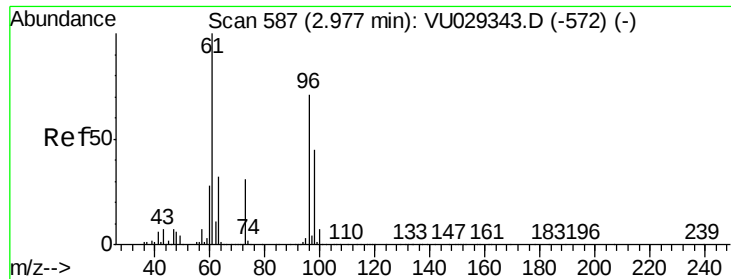
Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

Ion 51.00 (50.70 to 51.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

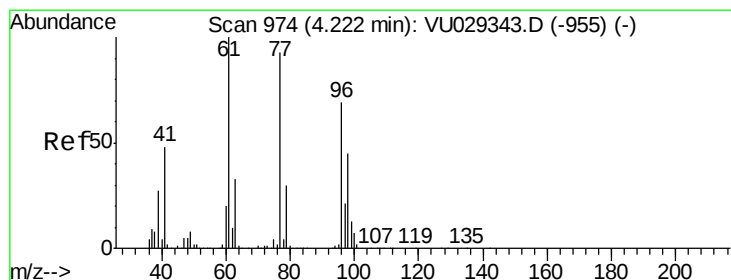
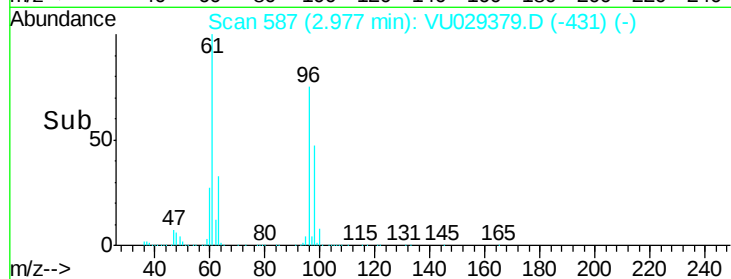
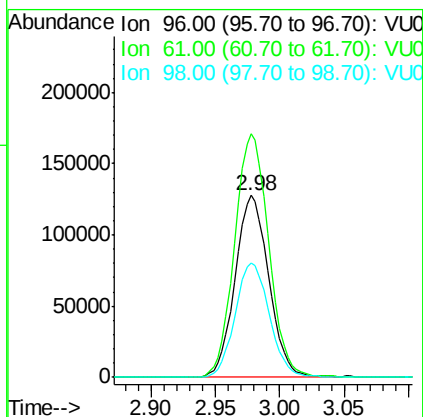
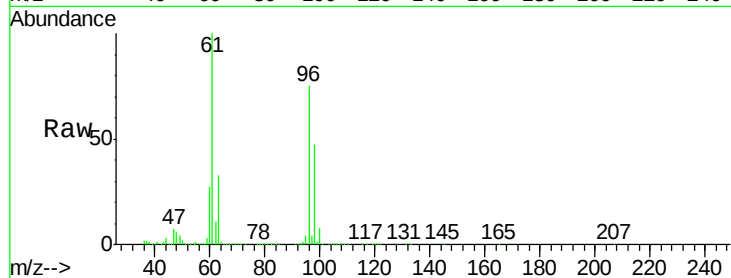




#16
trans-1,2-Dichloroethene
Concen: 12.562 ug/l
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU029379.D
Acq: 08 Feb 2019 15:01

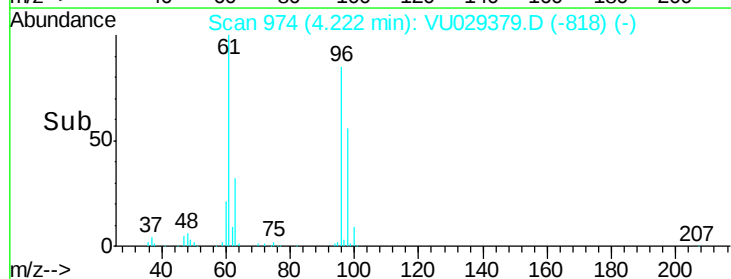
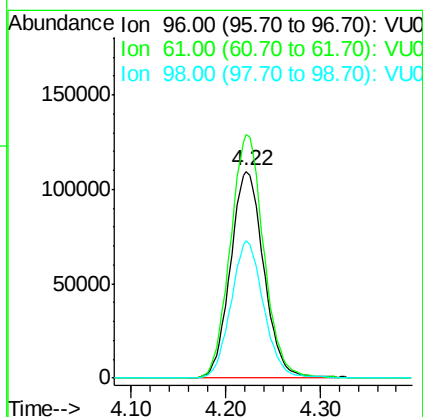
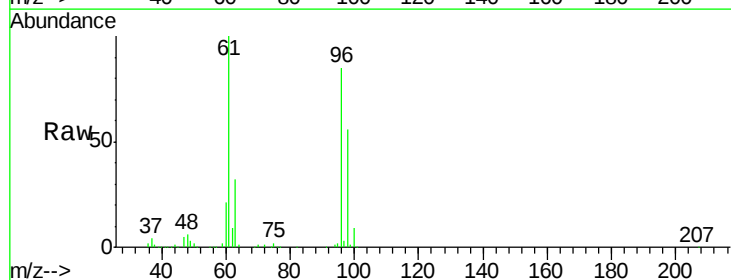
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

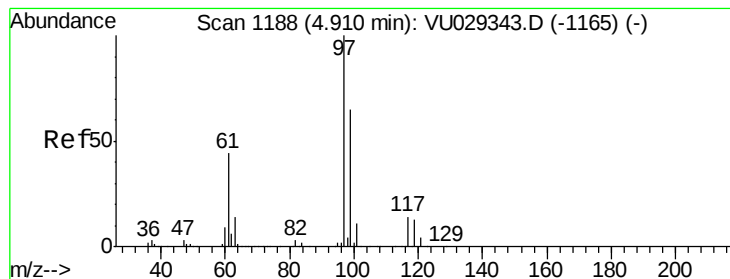
Tot Ion	Ratio	Lower	Upper
96	100		
61	134.0	140.6	210.8#
98	63.1	49.3	73.9



#22
cis-1,2-Dichloroethene
Concen: 15.459 ug/l
RT: 4.22 min Scan# 974
Delta R.T. 0.00 min
Lab File: VU029379.D
Acq: 08 Feb 2019 15:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	118.1	0.0	460.0
98	64.7	32.6	97.7





#28

1,1,1-Trichloroethane

Concen: 16.786 ug/l

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU029379.D

Acq: 08 Feb 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

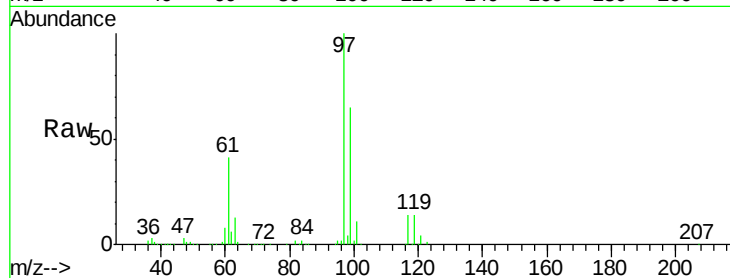
Tot Ion: 97 Resp: 441299

Ion Ratio Lower Upper

97 100

99 64.8 32.4 97.2

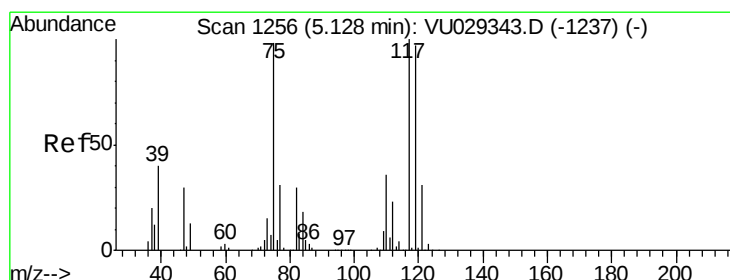
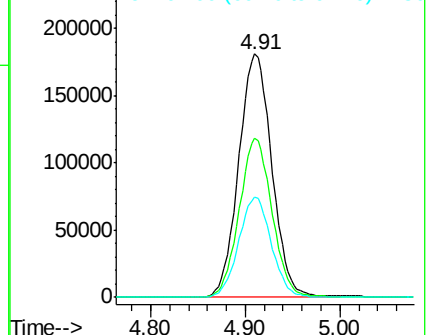
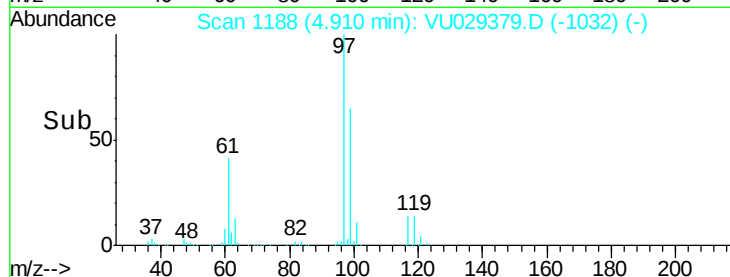
61 40.7 24.4 73.2



Abundance Ion 97.00 (96.70 to 97.70): VU029379.D (-1100) (-)

Ion 99.00 (98.70 to 99.70): VU029379.D (-1100) (-)

Ion 61.00 (60.70 to 61.70): VU029379.D (-1100) (-)



#30

Carbon Tetrachloride

Concen: 13.305 ug/l

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU029379.D

Acq: 08 Feb 2019 15:01

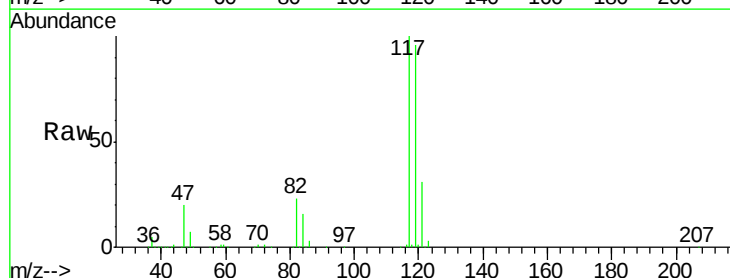
Tgt Ion: 117 Resp: 316662

Ion Ratio Lower Upper

117 100

119 96.2 76.8 115.2

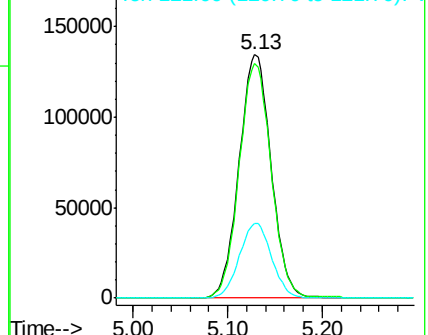
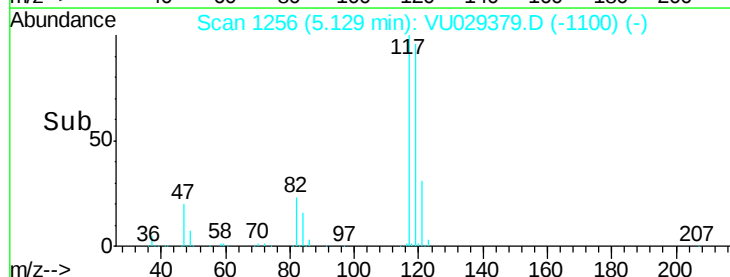
121 30.8 24.4 36.6

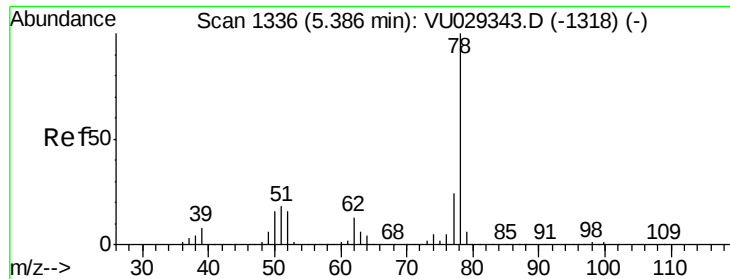


Abundance Ion 117.00 (116.70 to 117.70): VU029379.D (-1100) (-)

Ion 119.00 (118.70 to 119.70): VU029379.D (-1100) (-)

Ion 121.00 (120.70 to 121.70): VU029379.D (-1100) (-)





#35

Benzene

Concen: 15.554 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU029379.D

Acq: 08 Feb 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

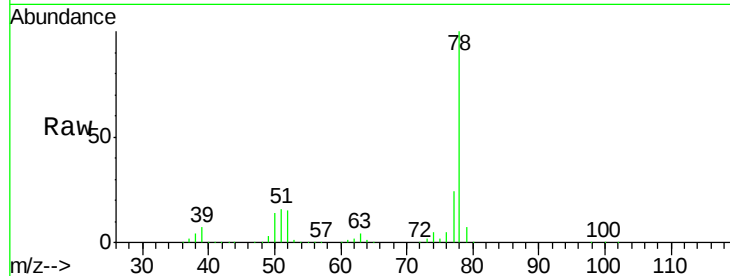
PT-RVOA-WS

Tot Ion: 78 Resp: 981654

Ion Ratio Lower Upper

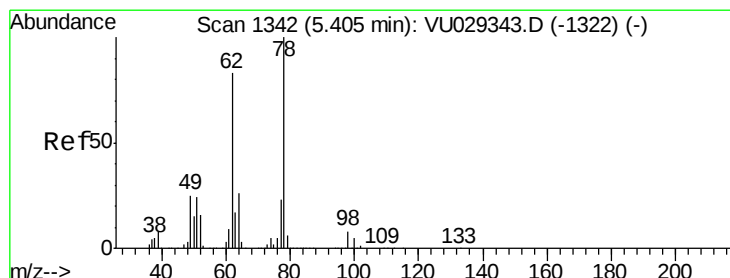
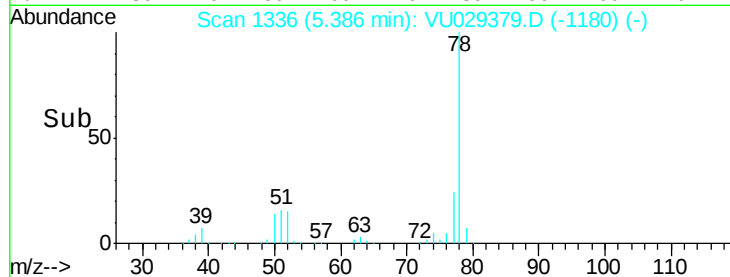
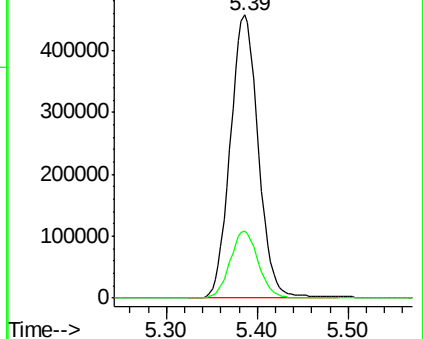
78 100

77 23.7 19.8 29.8



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0



#36

1,2-Dichloroethane

Concen: 2.748 ug/l

RT: 5.40 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VU029379.D

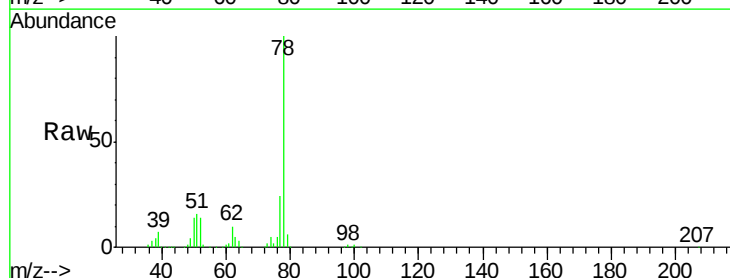
Acq: 08 Feb 2019 15:01

Tgt Ion: 62 Resp: 52464

Ion Ratio Lower Upper

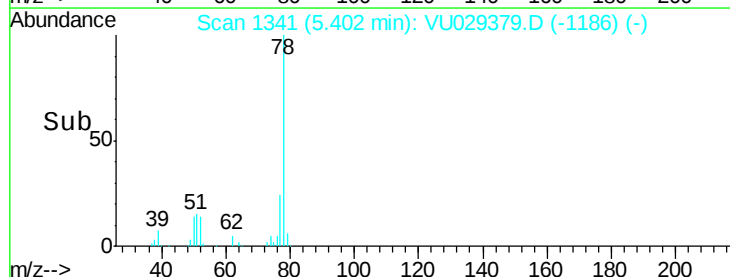
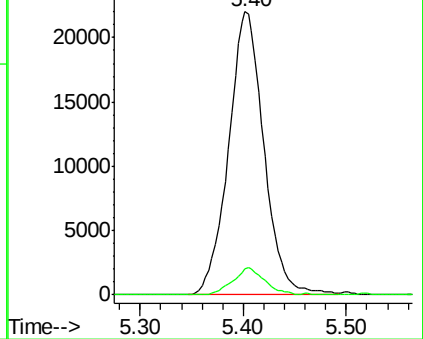
62 100

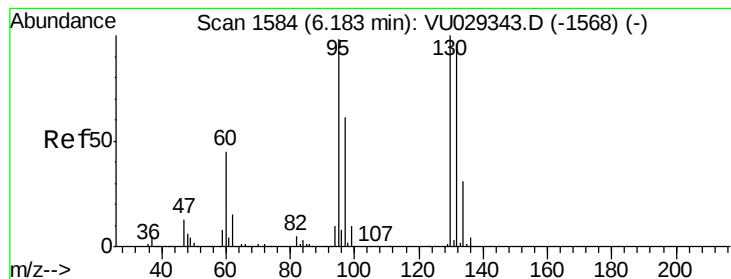
98 8.7 4.9 7.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

Trichloroethene

Concen: 14.804 ug/l

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029379.D

Acq: 08 Feb 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

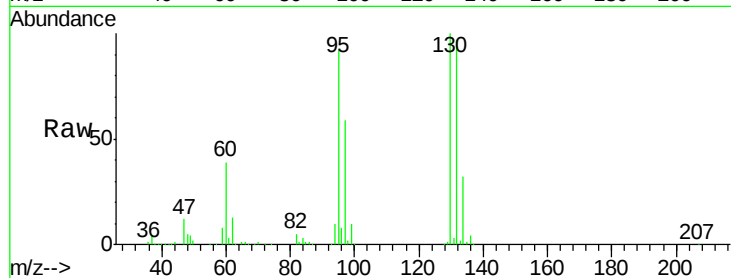
PT-RVOA-WS

Tot Ion:130 Resp: 268115

Ion Ratio Lower Upper

130 100

95 92.1 85.4 128.0



Abundance Ion 129.90 (129.60 to 130.60): VU029343.D (-1568) (-)

Ion 94.90 (94.60 to 95.60): VU029343.D (-1568) (-)

6.18

150000

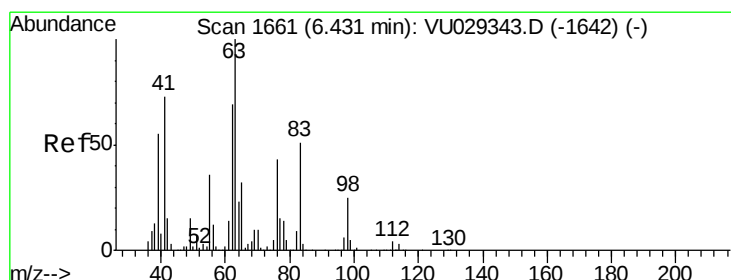
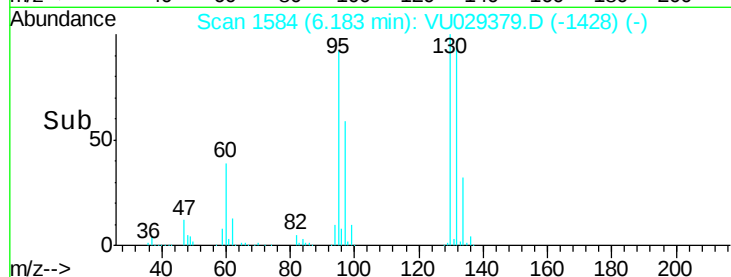
100000

50000

0

6.10 6.20 6.30

Time-->



#38

1,2-Dichloropropane

Concen: 10.680 ug/l

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU029379.D

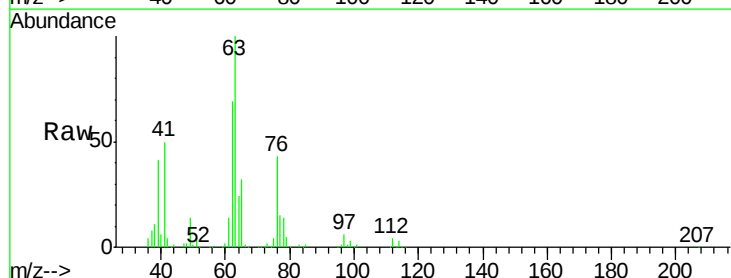
Acq: 08 Feb 2019 15:01

Tgt Ion: 63 Resp: 175346

Ion Ratio Lower Upper

63 100

65 31.8 25.5 38.3



Abundance Ion 63.00 (62.70 to 63.70): VU029343.D (-1642) (-)

Ion 65.00 (64.70 to 65.70): VU029343.D (-1642) (-)

6.43

100000

80000

60000

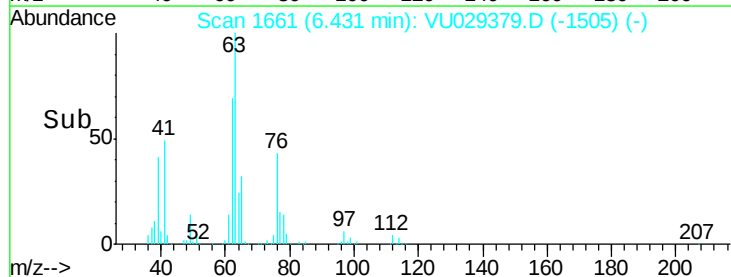
40000

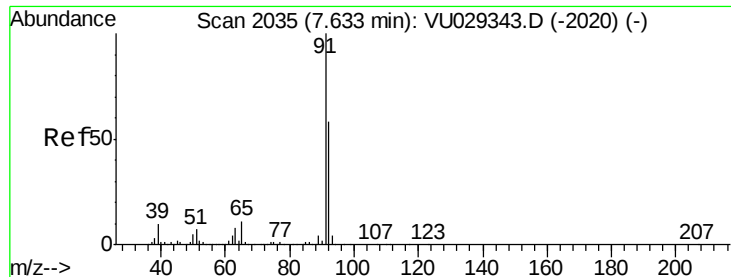
20000

0

6.40 6.50

Time-->





#49

Toluene

Concen: 6.347 ug/l

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029379.D

Acq: 08 Feb 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

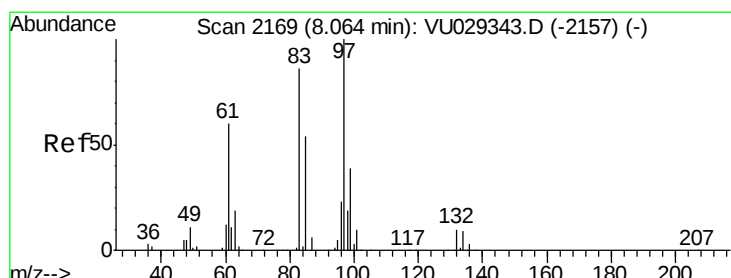
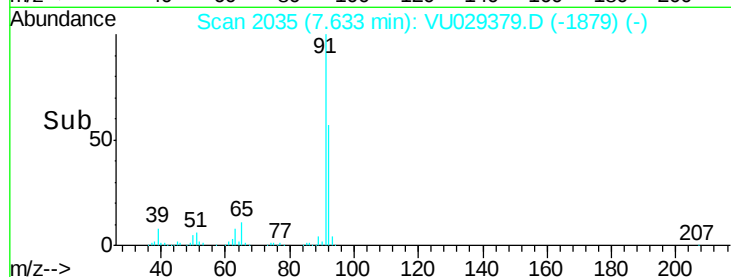
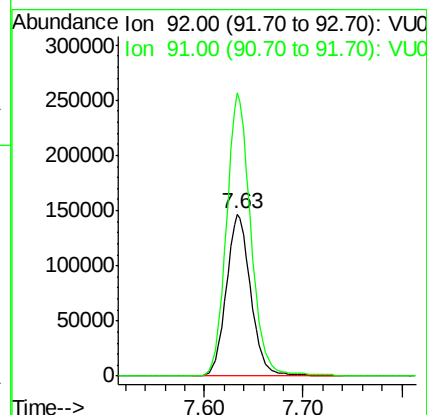
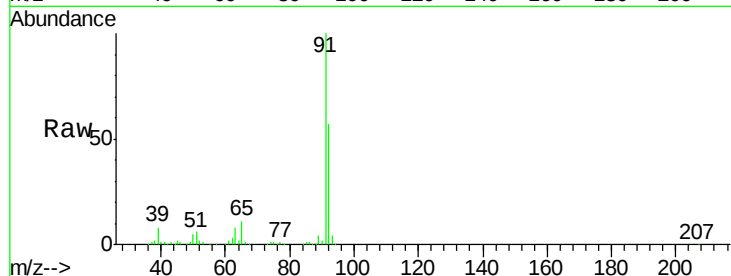
PT-RVOA-WS

Tot Ion: 92 Resp: 256350

Ion Ratio Lower Upper

92 100

91 172.9 140.7 211.1



#52

1,1,2-Trichloroethane

Concen: 10.558 ug/l

RT: 8.06 min Scan# 2169

Delta R.T. 0.00 min

Lab File: VU029379.D

Acq: 08 Feb 2019 15:01

Tgt Ion: 97 Resp: 122296

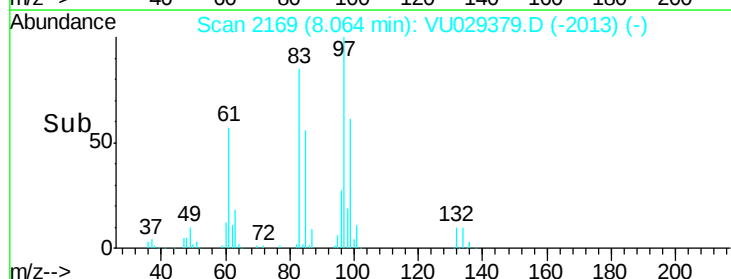
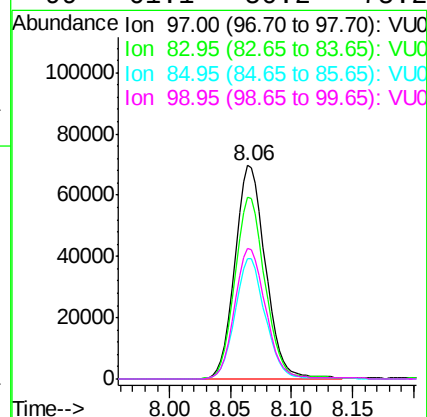
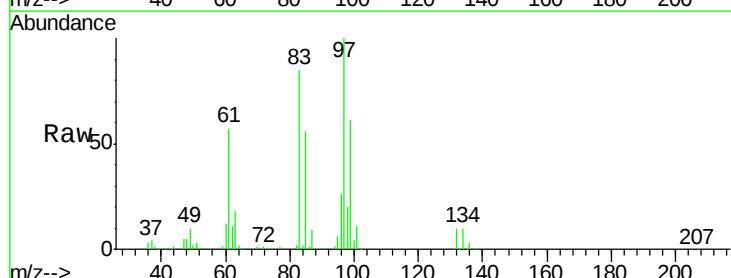
Ion Ratio Lower Upper

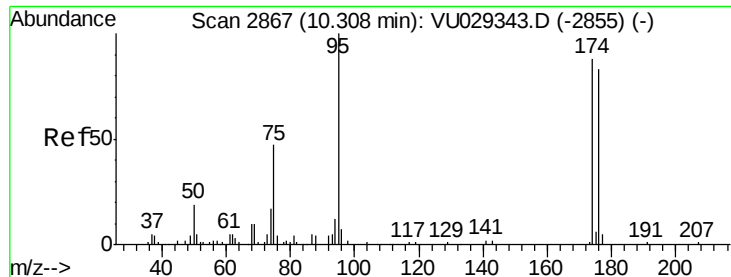
97 100

83 85.0 69.9 104.9

85 56.3 45.8 68.6

99 61.1 50.2 75.2

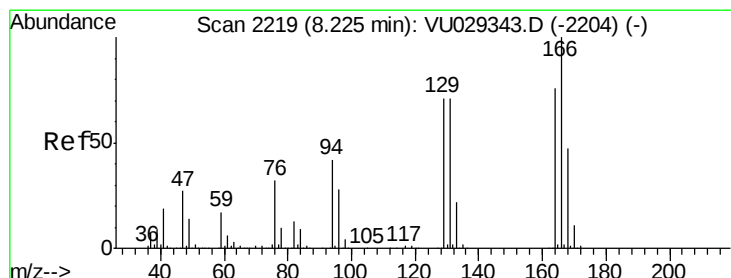
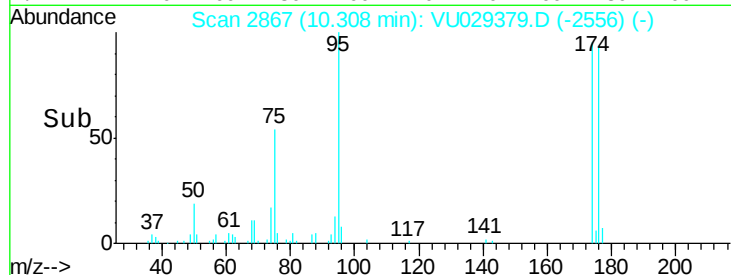
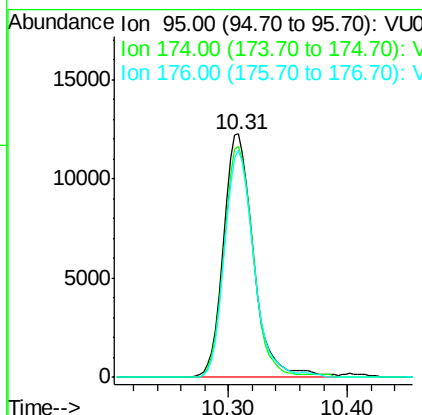
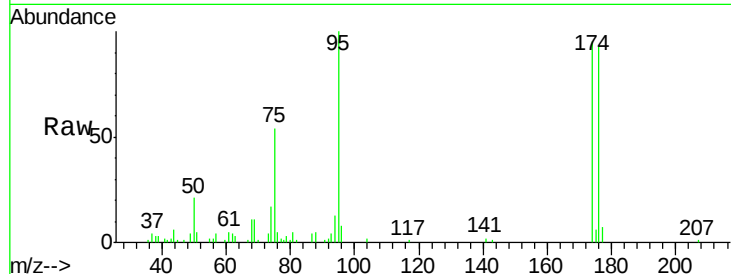




#57
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 10.31 min Scan# 2867
Delta R.T. 0.00 min
Lab File: VU029379.D
Acq: 08 Feb 2019 15:01

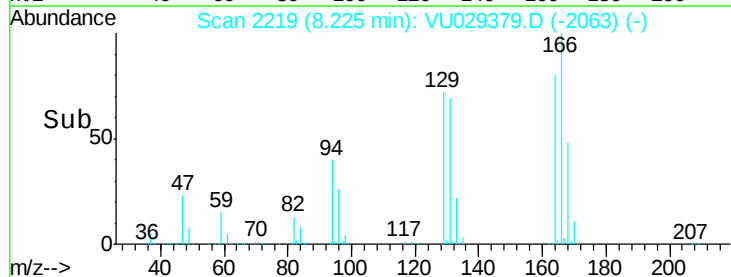
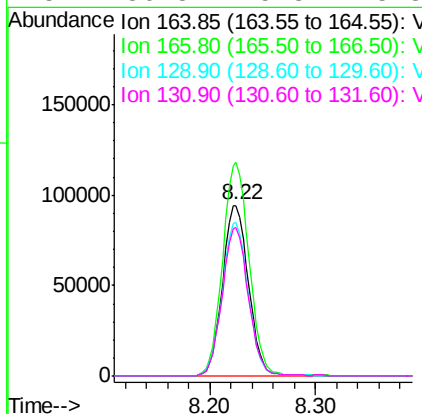
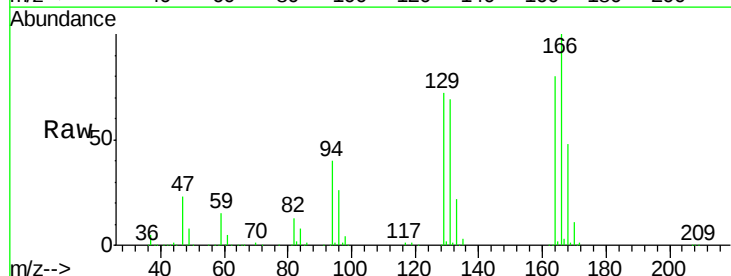
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

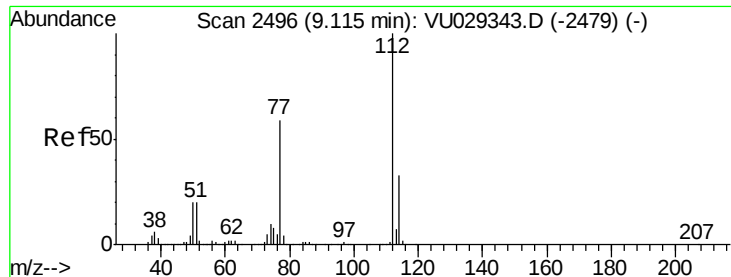
Tot Ion: 95 Resp: 21535
Ion Ratio Lower Upper
95 100
174 92.1 64.2 96.2
176 90.1 62.3 93.5



#58
Tetrachloroethene
Concen: 9.553 ug/l
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU029379.D
Acq: 08 Feb 2019 15:01

Tgt Ion:164 Resp: 160991
Ion Ratio Lower Upper
164 100
166 125.3 106.6 159.8
129 89.8 79.9 119.9
131 86.8 75.8 113.8

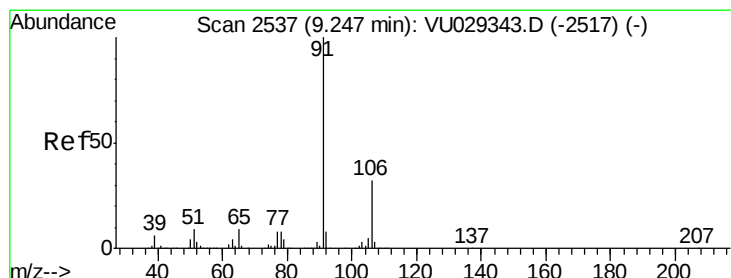
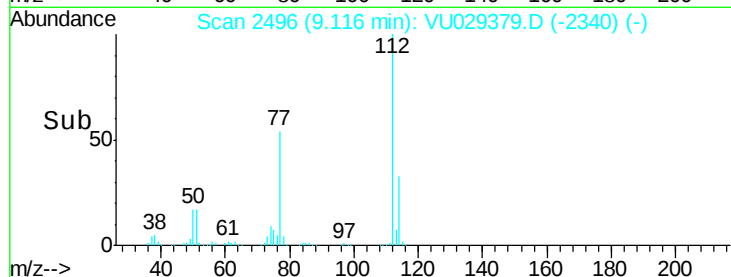
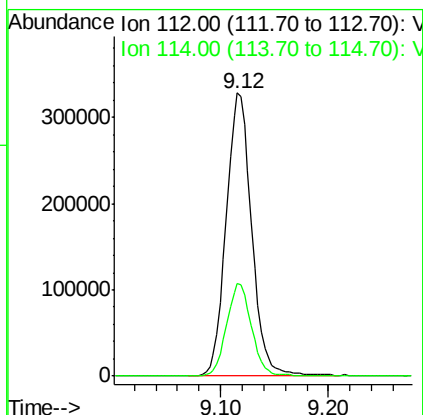
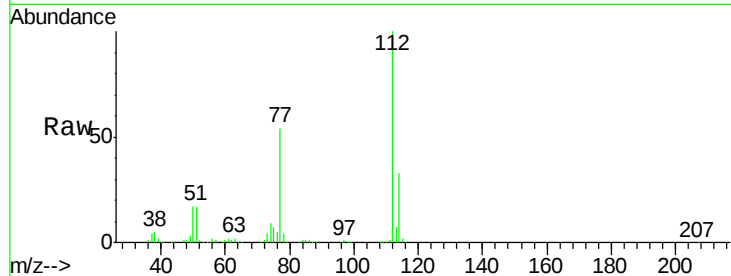




#59
Chlorobenzene
Concen: 11.916 ug/l
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU029379.D
Acq: 08 Feb 2019 15:01

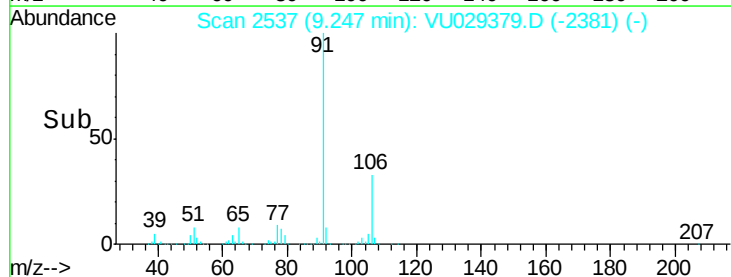
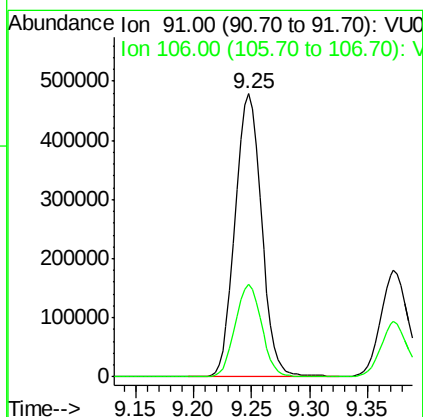
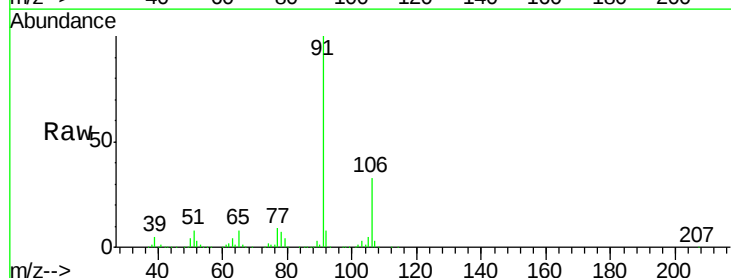
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

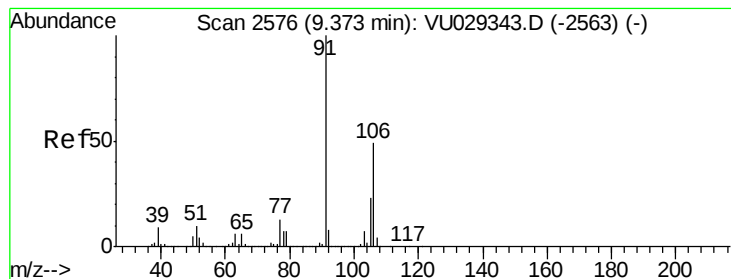
Tot Ion:112 Resp: 542143
Ion Ratio Lower Upper
112 100
114 32.6 26.2 39.4



#63
Ethyl Benzene
Concen: 9.615 ug/l
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU029379.D
Acq: 08 Feb 2019 15:01

Tgt Ion: 91 Resp: 759702
Ion Ratio Lower Upper
91 100
106 32.6 23.8 35.6





#64

m/p-Xylenes

Concen: 4.998 ug/l

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029379.D

Acq: 08 Feb 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

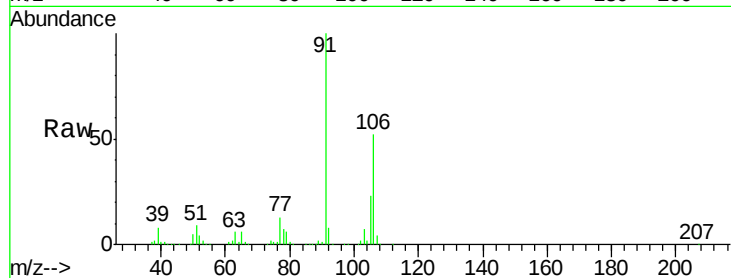
PT-RVOA-WS

Tot Ion:106 Resp: 153461

Ion Ratio Lower Upper

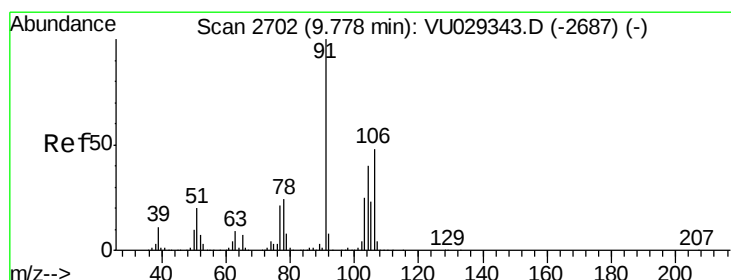
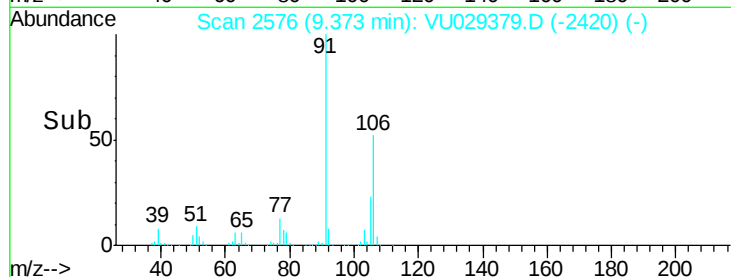
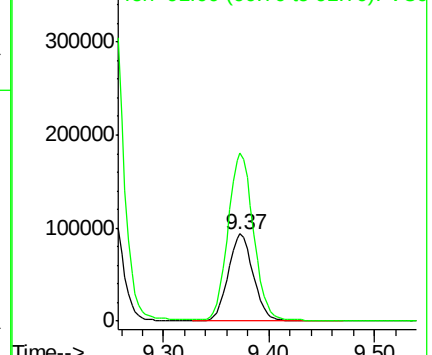
106 100

91 196.0 174.6 261.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

o-Xylene

Concen: 2.882 ug/l

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU029379.D

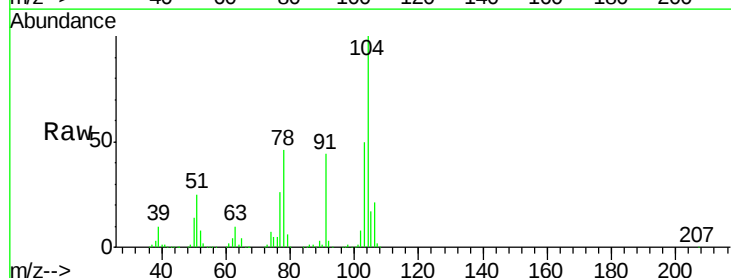
Acq: 08 Feb 2019 15:01

Tgt Ion:106 Resp: 86858

Ion Ratio Lower Upper

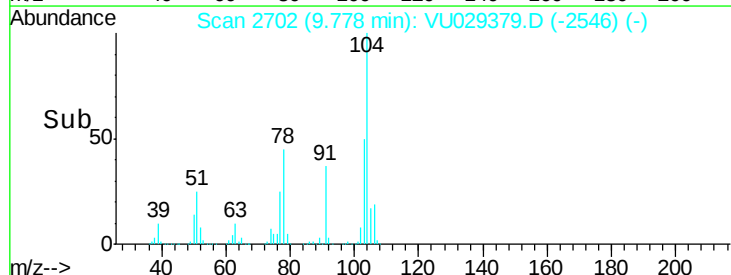
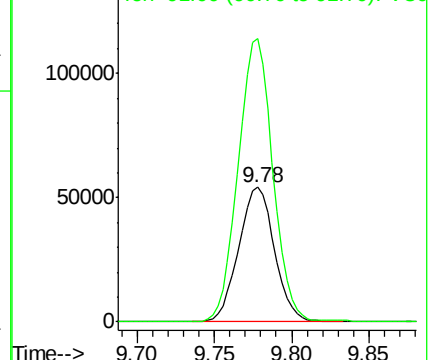
106 100

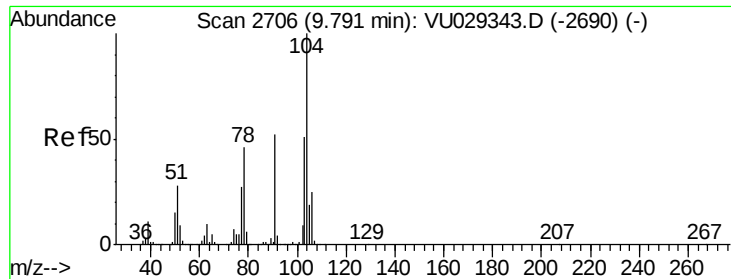
91 203.8 114.5 343.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

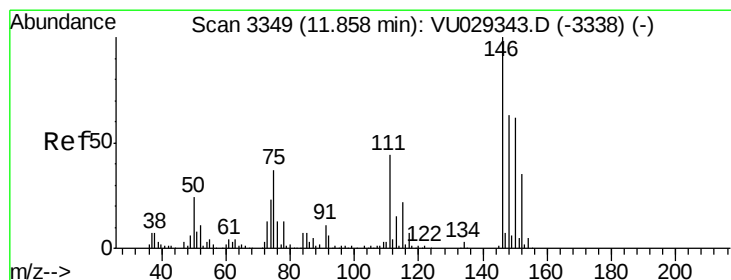
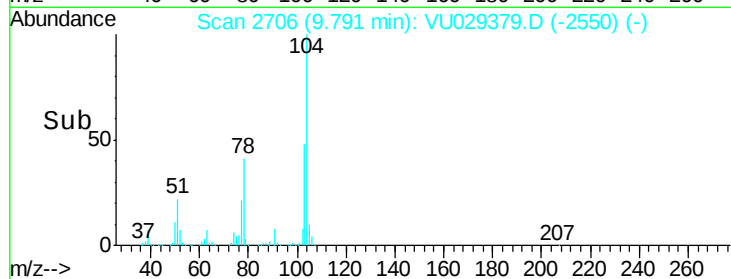
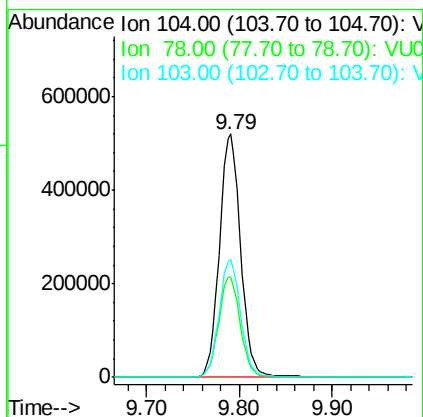
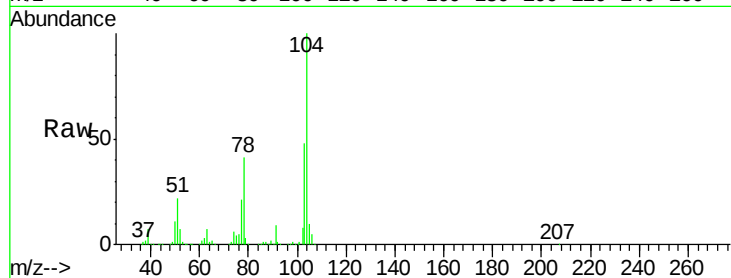




#66
Stvrene
Concen: 16.449 ug/l
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU029379.D
Acq: 08 Feb 2019 15:01

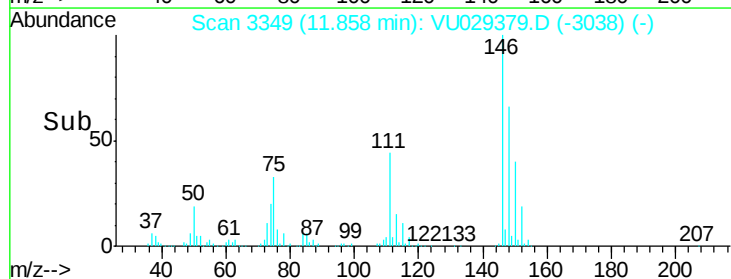
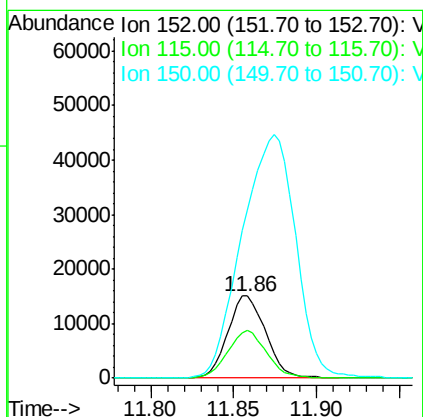
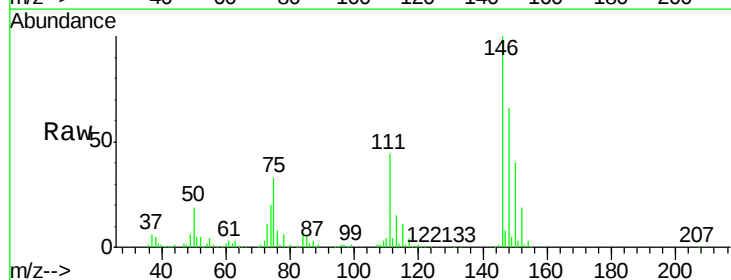
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

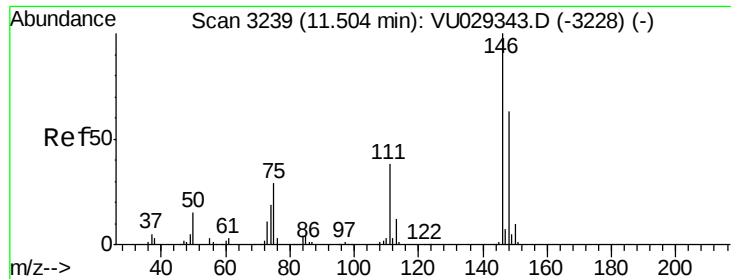
Tot Ion:104 Resp: 826411
Ion Ratio Lower Upper
104 100
78 42.0 46.5 69.7#
103 49.0 44.7 67.1



#68
1,2-Dichlorobenzene-d4
Concen: Below ug/l
RT: 11.86 min Scan# 3349
Delta R.T. 0.00 min
Lab File: VU029379.D
Acq: 08 Feb 2019 15:01

Tgt Ion:152 Resp: 23955
Ion Ratio Lower Upper
152 100
115 59.3 0.0 133.4
150 419.8 0.0 670.8

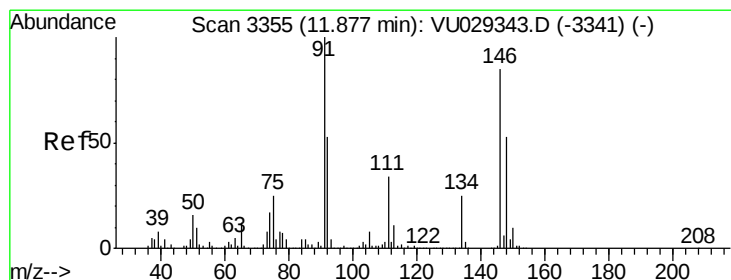
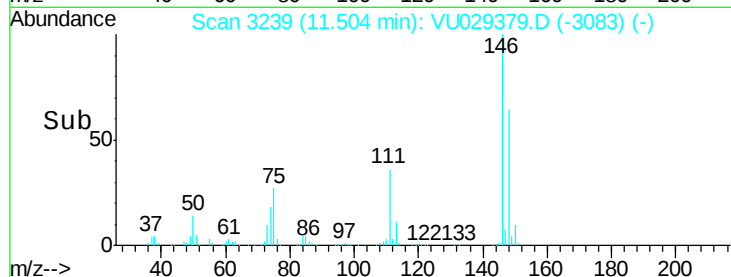
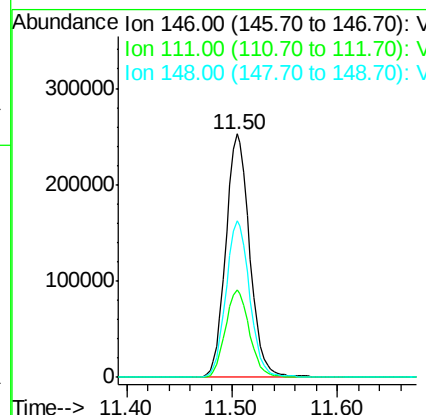
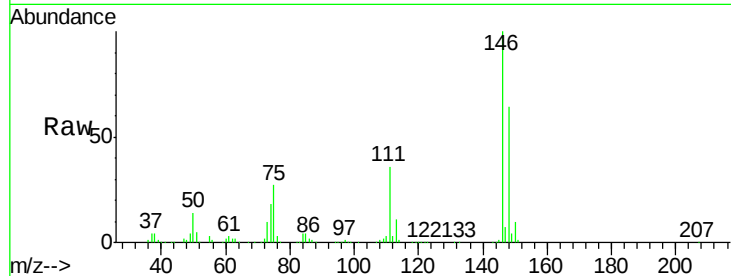




#83
 1,4-Dichlorobenzene
 Concen: 10.369 ug/l
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU029379.D
 Acq: 08 Feb 2019 15:01

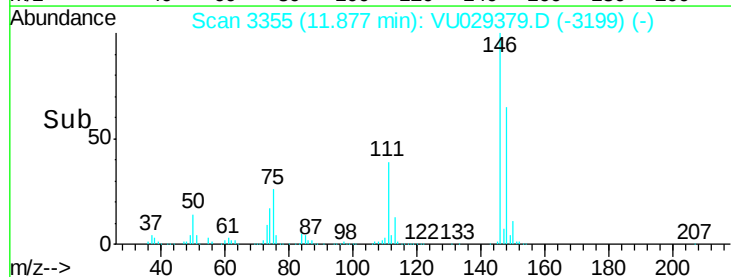
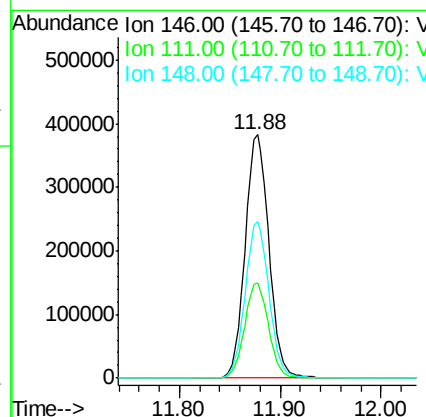
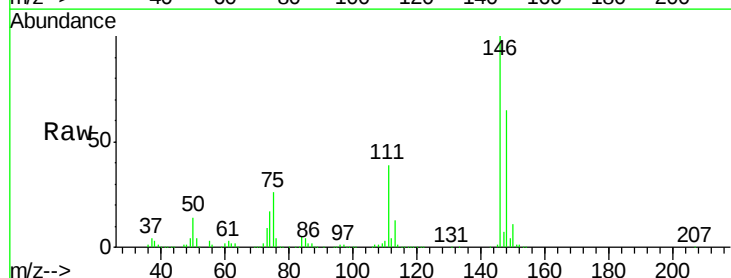
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

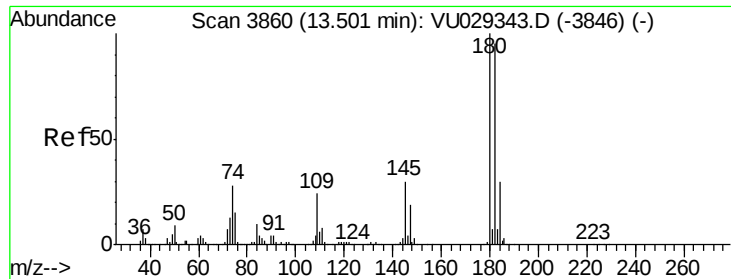
Tot Ion	Ratio	Lower	Upper
146	100		
111	36.4	32.9	49.3
148	64.1	51.8	77.6



#85
 1,2-Dichlorobenzene
 Concen: 17.177 ug/l
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU029379.D
 Acq: 08 Feb 2019 15:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	21.9	65.8
148	64.5	31.8	95.3

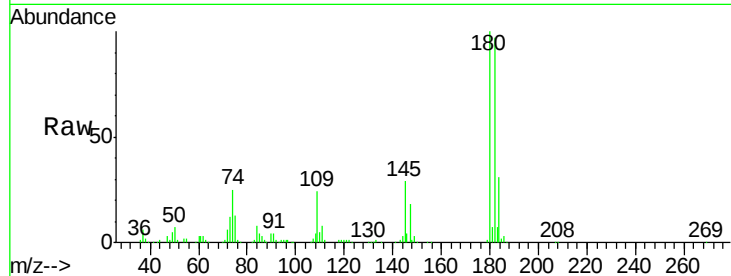




#87
 1,2,4-Trichlorobenzene
 Concen: 9.043 ug/l
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU029379.D
 Acq: 08 Feb 2019 15:01

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.7	76.6	114.8
145	28.9	24.6	36.8



Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

