

Data File : VU031144.D
Acq On : 12 Apr 2019 21:17
Operator : JC/SP
Sample : K2339-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFC34

Quant Time: Apr 13 01:07:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Apr 13 01:01:33 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	576568	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	569691	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	253824	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	229575	44.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.20%
7) Chloroethane-d5	1.68	69	172383	44.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.26%
11) 1,1-Dichloroethene-d2	2.28	63	1519130	163.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	326.38%#
21) 2-Butanone-d5	4.18	46	373739	91.62	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	91.62%
24) Chloroform-d	4.64	84	346273	44.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.08%
26) 1,2-Dichloroethane-d4	5.31	65	240884	44.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.80%
32) Benzene-d6	5.34	84	742008	44.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.24%
36) 1,2-Dichloropropane-d6	6.35	67	269865	47.35	ug/L	0.02
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.70%
41) Toluene-d8	7.56	98	695804	47.20	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.40%
43) trans-1,3-Dichloropropene-	7.85	79	117344	45.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.30%
47) 2-Hexanone-d5	8.31	63	235874	90.55	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.55%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	339060	44.10	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	88.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	231022	46.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.56%

Target Compounds

					Qvalue
5) Vinyl chloride	1.40	62	393996	62.132 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	15607	3.780 ug/L #	53
12) 1,1-Dichloroethene	2.28	96	2130535	534.566 ug/L #	71
13) Acetone	2.31	43	37534	8.992 ug/L	73
16) Methylene chloride	2.70	84	3467	0.716 ug/L #	24
17) trans-1,2-Dichloroethene	2.98	96	36178	8.549 ug/L	92
18) Methyl tert-butyl Ether	3.00	73	152860	10.784 ug/L #	1
19) 1,1-Dichloroethane	3.44	63	555315	63.587 ug/L	97
25) Chloroform	4.67	83	47261	5.384 ug/L	98
27) 1,2-Dichloroethane	5.40	62	8324	1.243 ug/L	97
29) Cyclohexane	4.99	56	28771	3.543 ug/L #	91
30) 1,1,1-Trichloroethane	4.91	97	1919849	276.524 ug/L	99
33) Benzene	5.39	78	688859	36.950 ug/L	100
35) Methylcyclohexane	6.42	83	183016	25.936 ug/L	99
42) Toluene	7.64	91	17360	0.912 ug/L	100
44) trans-1,3-Dichloropropene	7.85	75	5117	0.773 ug/L	99
45) 1,1,2-Trichloroethane	8.04	97	71857	16.050 ug/L #	18

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU041219\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Sat Apr 13 01:01:33 2019
Response via : Initial Calibration

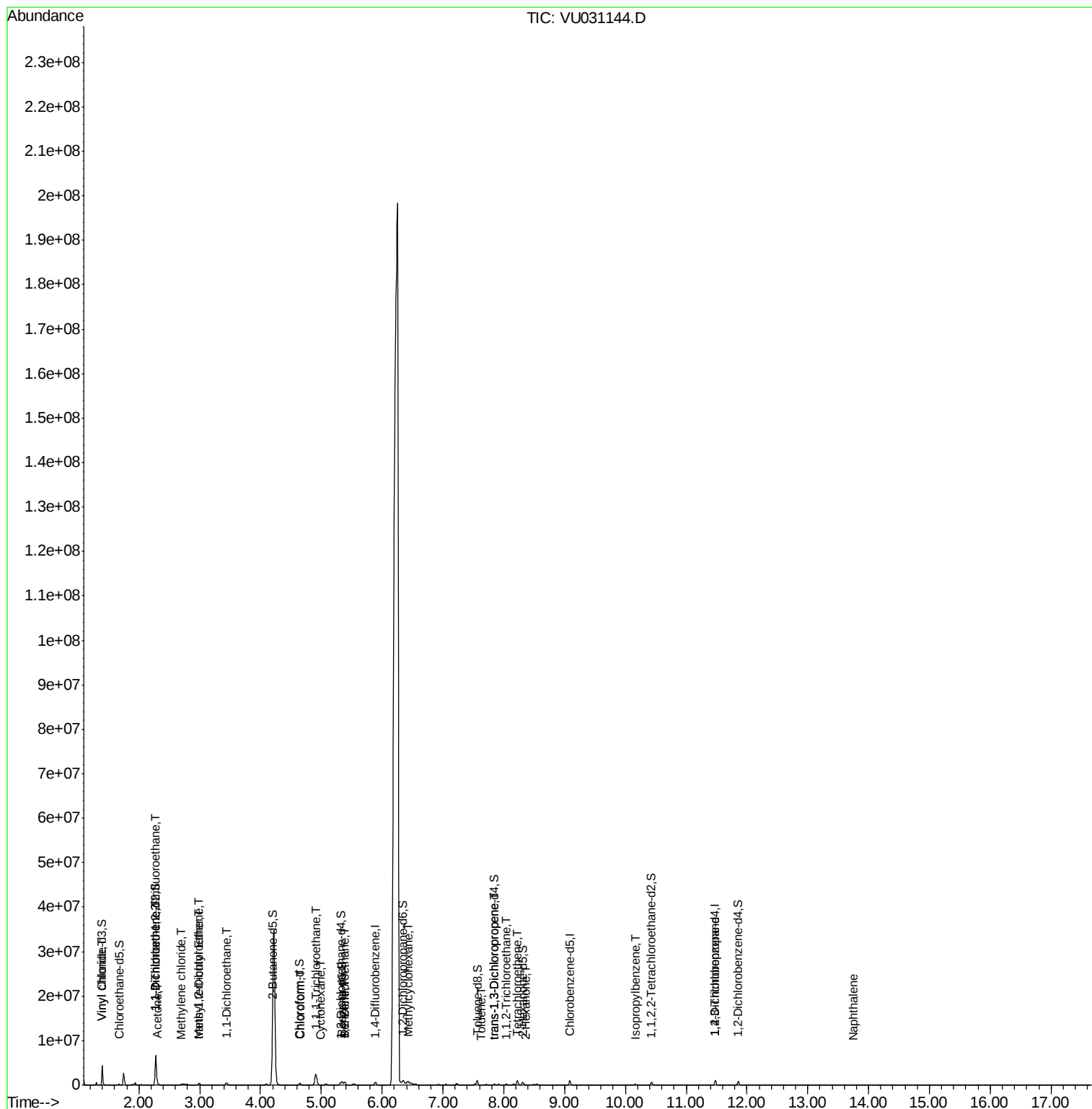
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Tetrachloroethene	8.22	164	239083	71.919	ug/L	99
48) 2-Hexanone	8.37	43	14730	2.224	ug/L #	57
56) Isopropylbenzene	10.16	105	92442	4.879	ug/L	100
59) 1,2,3-Trichloropropane	11.48	75	30684	4.853	ug/L	90
69) Naphthalene	13.75	128	28593	1.769	ug/L	98

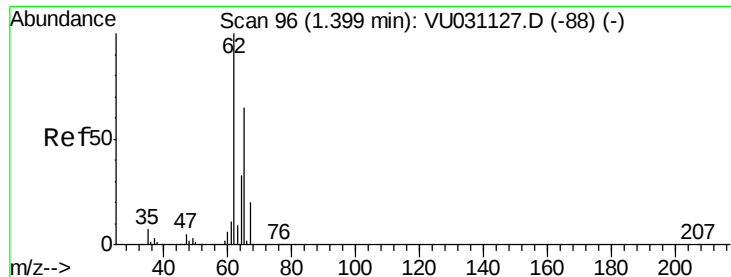
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 62.132 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Instrument :

MSVOA_U

ClientSampleId :

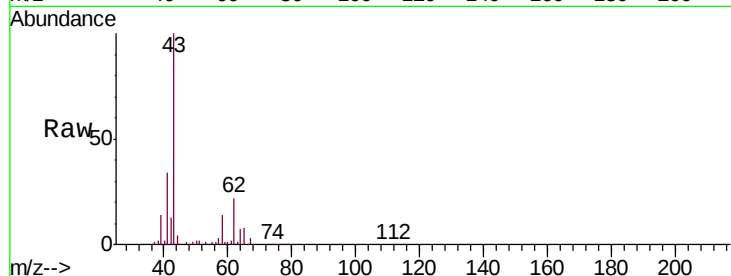
BFC34

Tgt Ion: 62 Resp: 393996

Ion Ratio Lower Upper

62 100

64 32.4 21.5 39.9



Abundance Ion 62.00 (61.70 to 62.70): VU031127.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031127.D (-88) (-)

1.40

400000

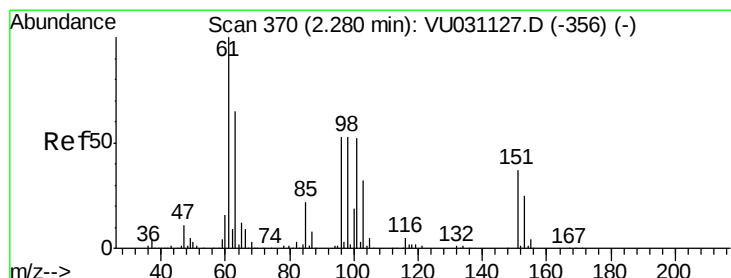
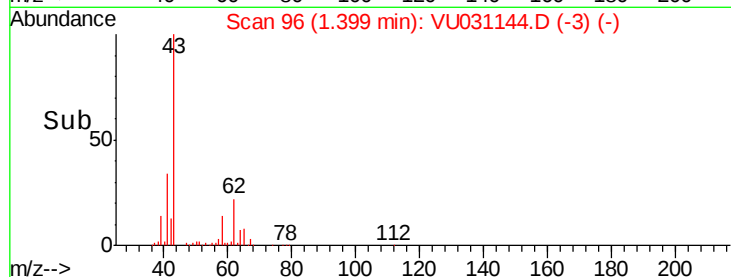
300000

200000

100000

0

Time-->



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 3.780 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

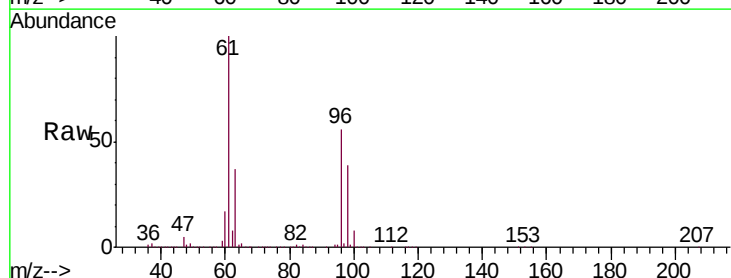
Tgt Ion: 101 Resp: 15607

Ion Ratio Lower Upper

101 100

85 32.4 36.8 55.2#

151 18.2 57.4 86.0#



Abundance Ion 101.00 (100.70 to 101.70): VU031127.D (-356) (-)

Ion 85.00 (84.70 to 85.70): VU031127.D (-356) (-)

Ion 151.00 (150.70 to 151.70): VU031127.D (-356) (-)

12000

10000

8000

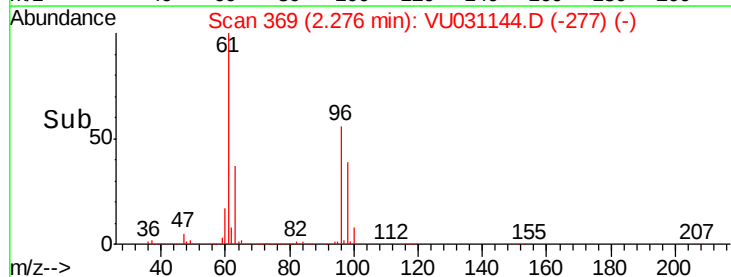
6000

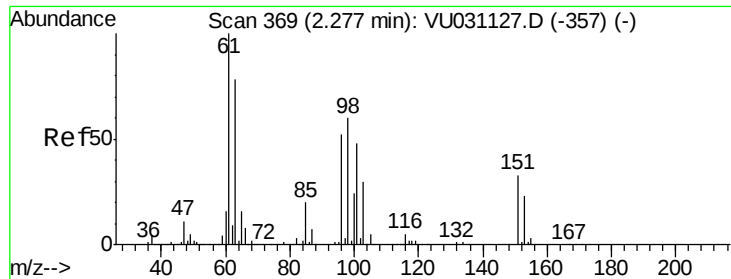
4000

2000

0

Time-->





#12

1,1-Dichloroethene

Concen: 534.566 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Instrument :

MSVOA_U

ClientSampleId :

BFC34

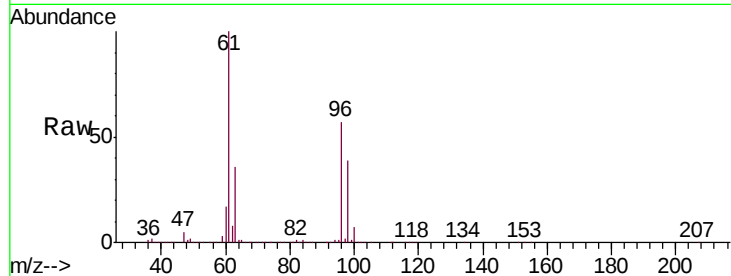
Tgt Ion: 96 Resp: 2130535

Ion Ratio Lower Upper

96 100

61 174.7 132.0 245.2

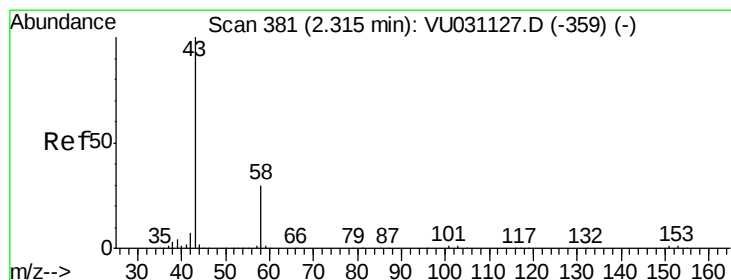
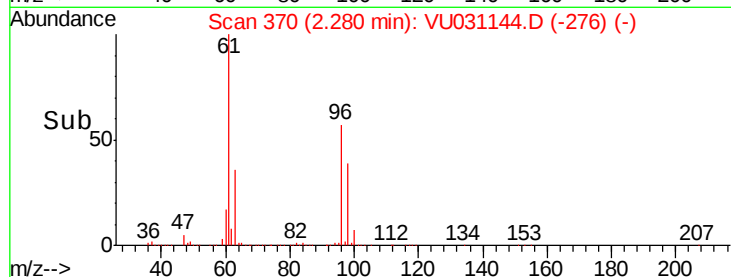
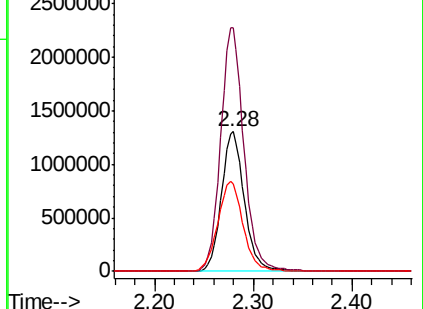
63 63.0 90.9 168.9#



Abundance Ion 96.00 (95.70 to 96.70): VU031144.D (-276) (-)

Ion 61.00 (60.70 to 61.70): VU031144.D (-276) (-)

Ion 63.00 (62.70 to 63.70): VU031144.D (-276) (-)



#13

Acetone

Concen: 8.992 ug/L

RT: 2.31 min Scan# 381

Delta R.T. -0.00 min

Lab File: VU031144.D

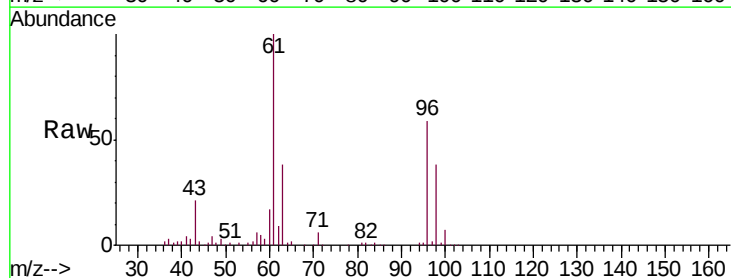
Acq: 12 Apr 2019 21:17

Tgt Ion: 43 Resp: 37534

Ion Ratio Lower Upper

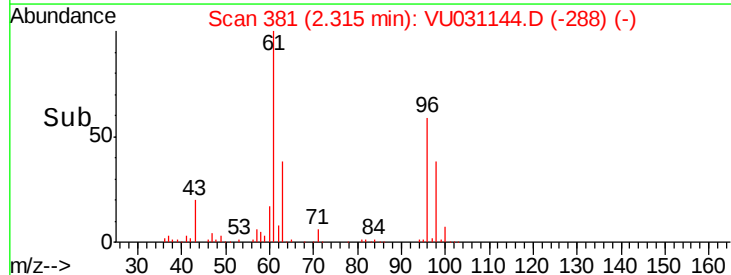
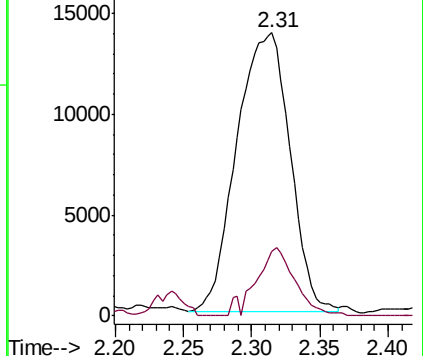
43 100

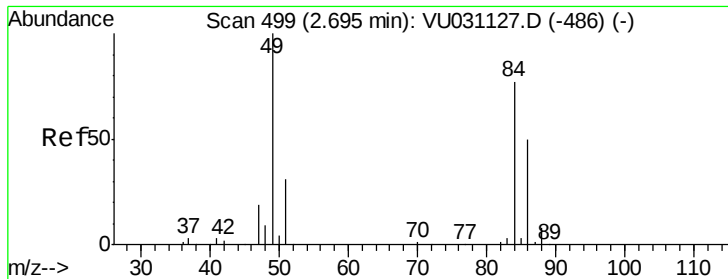
58 16.8 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU031144.D (-288) (-)

Ion 58.00 (57.70 to 58.70): VU031144.D (-288) (-)

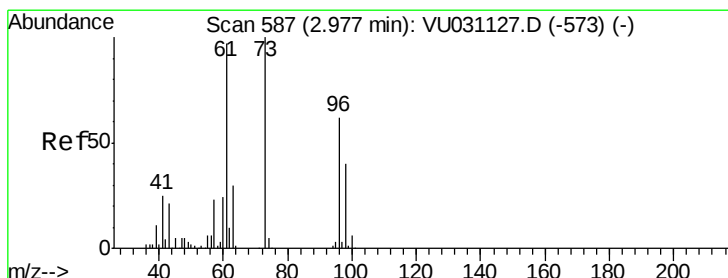
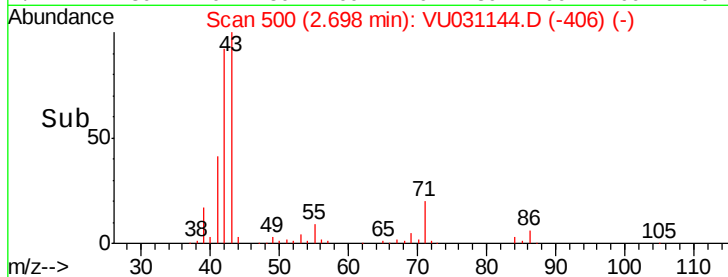
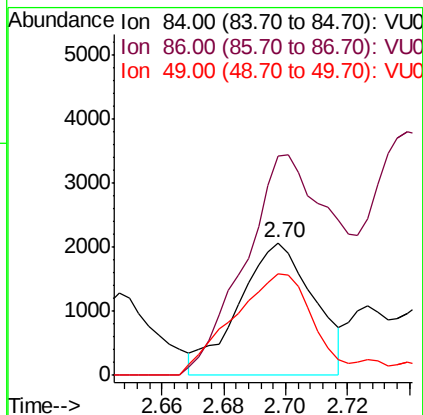
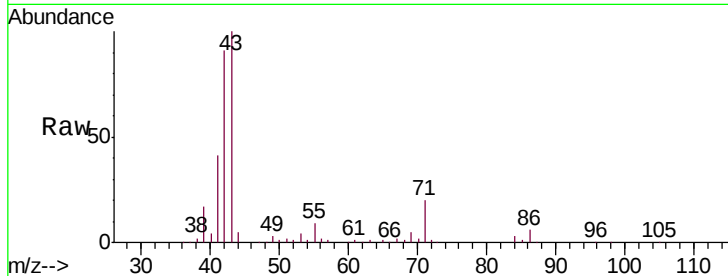




#16
Methylene chloride
Concen: 0.716 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU031144.D
Acq: 12 Apr 2019 21:17

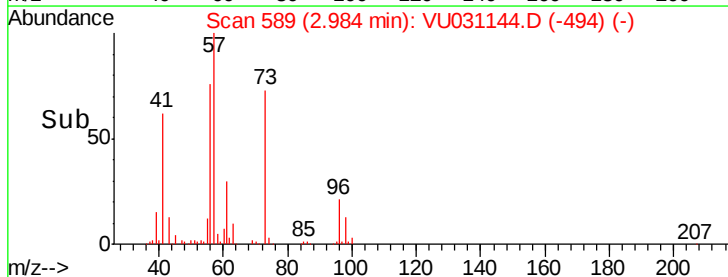
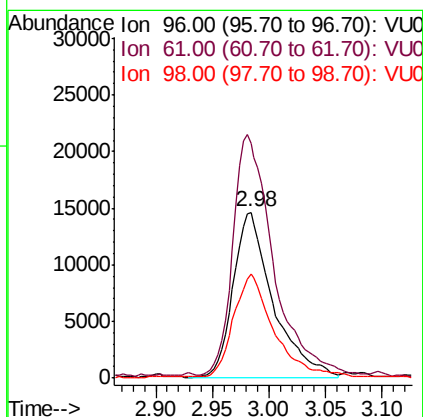
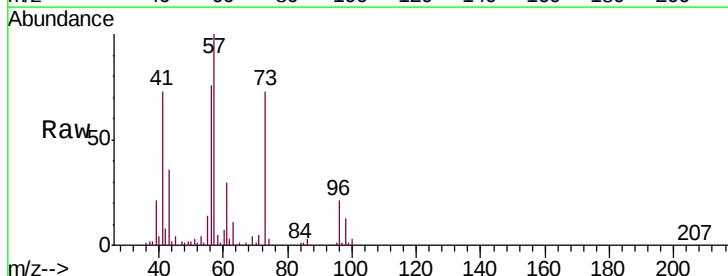
Instrument :
MSVOA_U
ClientSampled :
BFC34

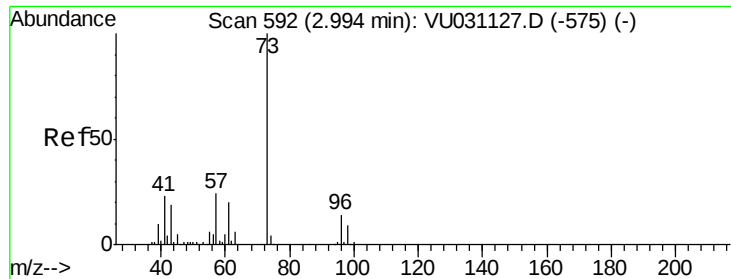
Tgt Ion: 84 Resp: 3467
Ion Ratio Lower Upper
84 100
86 165.7 45.1 83.7#
49 76.5 96.5 179.1#



#17
trans-1,2-Dichloroethene
Concen: 8.549 ug/L
RT: 2.98 min Scan# 589
Delta R.T. 0.01 min
Lab File: VU031144.D
Acq: 12 Apr 2019 21:17

Tgt Ion: 96 Resp: 36178
Ion Ratio Lower Upper
96 100
61 141.4 109.5 203.3
98 63.0 44.0 81.6

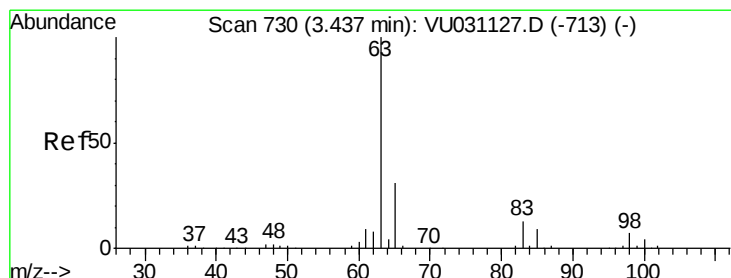
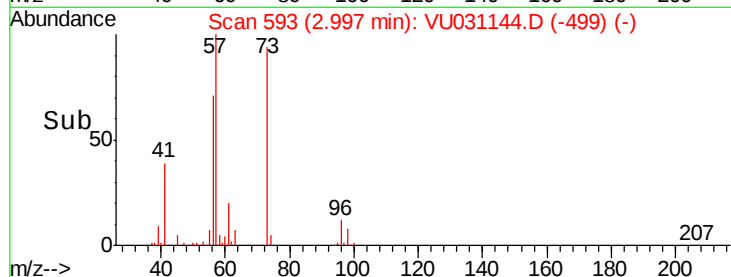
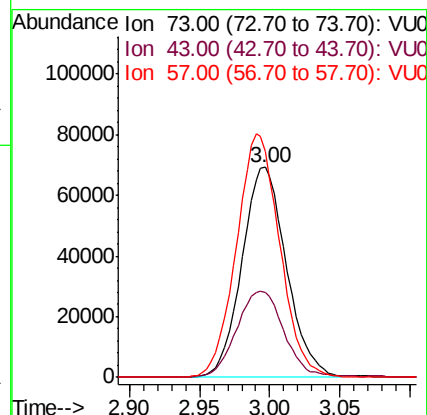
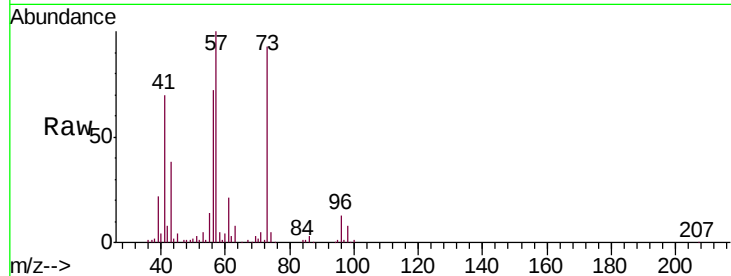




#18
Methyl tert-butyl Ether
Concen: 10.784 ug/L
RT: 3.00 min Scan# 593
Delta R.T. 0.00 min
Lab File: VU031144.D
Acq: 12 Apr 2019 21:17

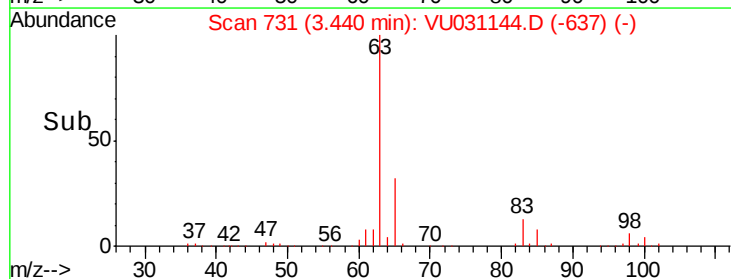
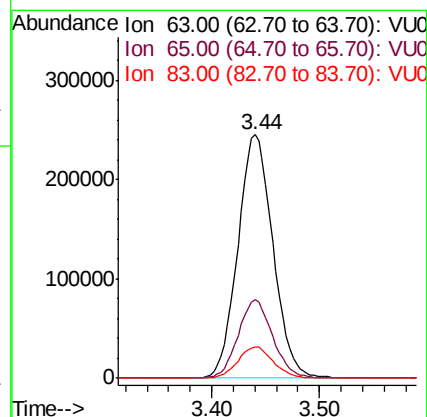
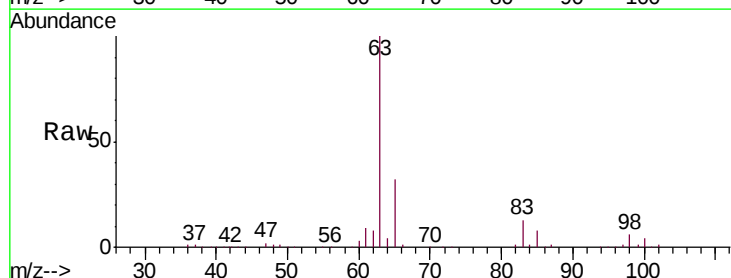
Instrument :
MSVOA_U
ClientSampled :
BFC34

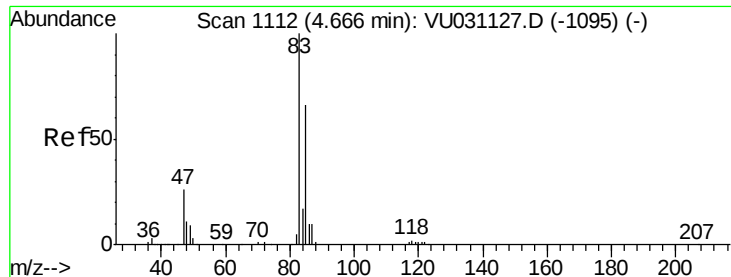
Tgt Ion: 73 Resp: 152860
Ion Ratio Lower Upper
73 100
43 43.1 16.4 24.6#
57 112.9 19.0 28.4#



#19
1,1-Dichloroethane
Concen: 63.587 ug/L
RT: 3.44 min Scan# 731
Delta R.T. 0.00 min
Lab File: VU031144.D
Acq: 12 Apr 2019 21:17

Tgt Ion: 63 Resp: 555315
Ion Ratio Lower Upper
63 100
65 32.2 21.4 39.8
83 12.8 8.5 15.7





#25

Chloroform

Concen: 5.384 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Instrument :

MSVOA_U

ClientSampleId :

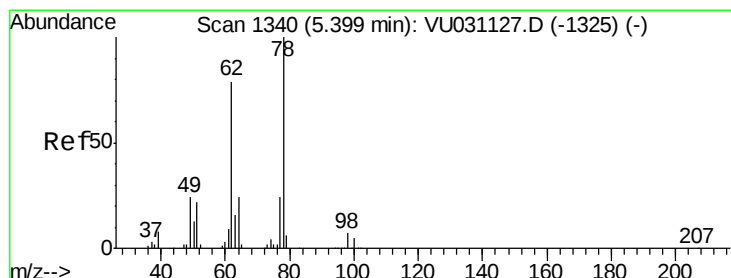
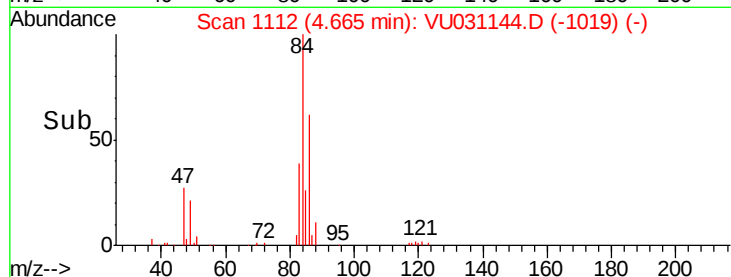
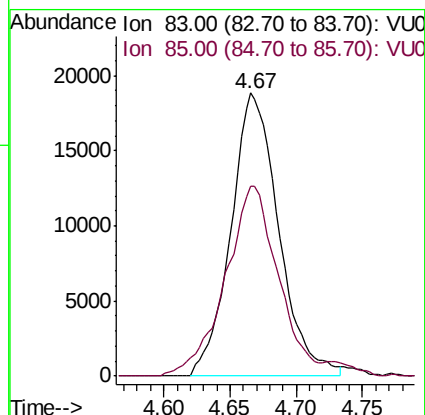
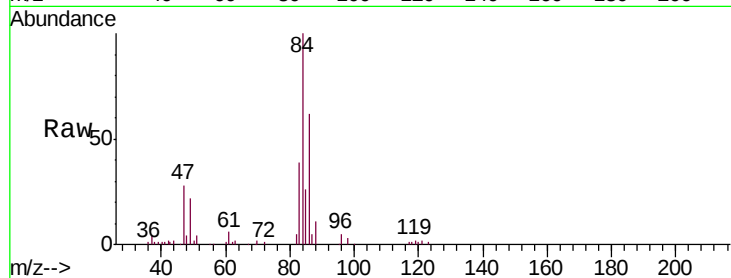
BFC34

Tgt Ion: 83 Resp: 47261

Ion Ratio Lower Upper

83 100

85 67.0 45.8 85.0



#27

1,2-Dichloroethane

Concen: 1.243 ug/L

RT: 5.40 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VU031144.D

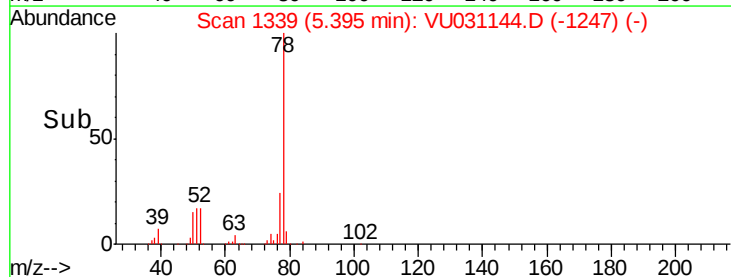
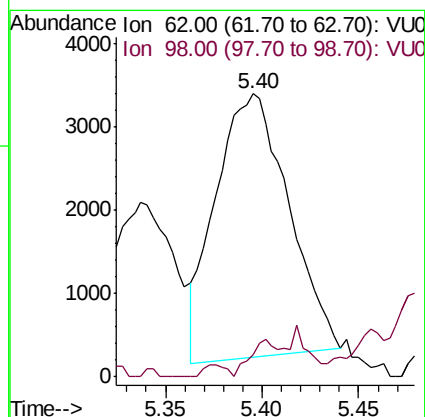
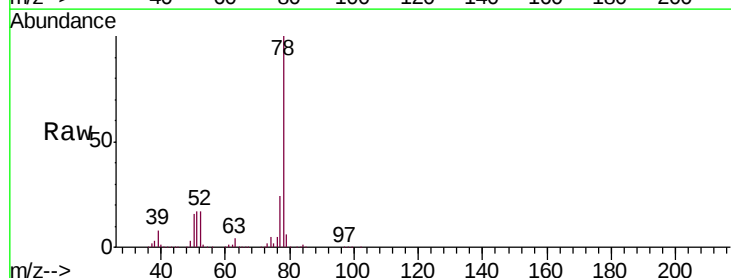
Acq: 12 Apr 2019 21:17

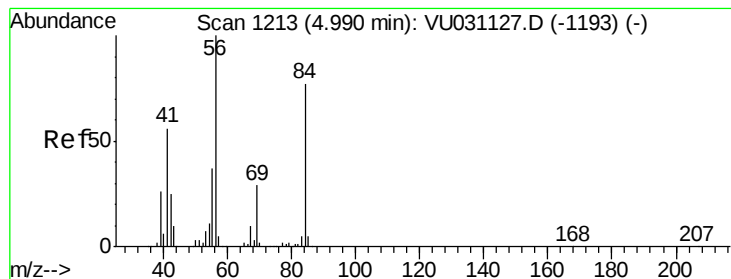
Tgt Ion: 62 Resp: 8324

Ion Ratio Lower Upper

62 100

98 7.8 7.2 10.8





#29

Cyclohexane

Concen: 3.543 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Instrument :

MSVOA_U

ClientSampleId :

BFC34

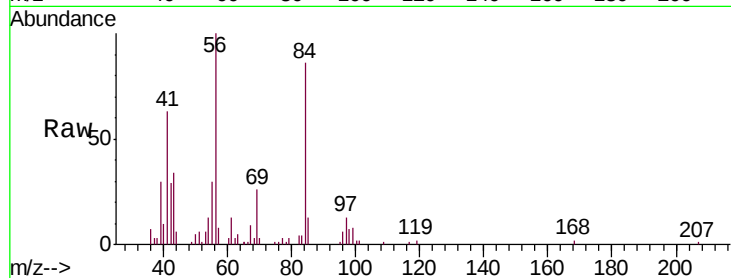
Tgt Ion: 56 Resp: 28771

Ion Ratio Lower Upper

56 100

69 19.1 22.0 33.0#

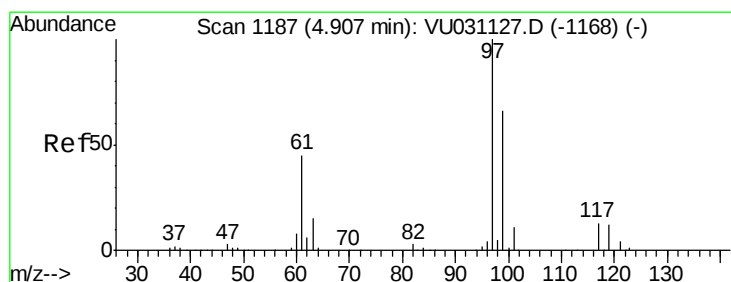
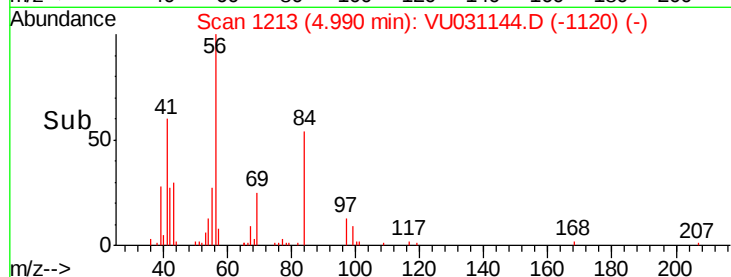
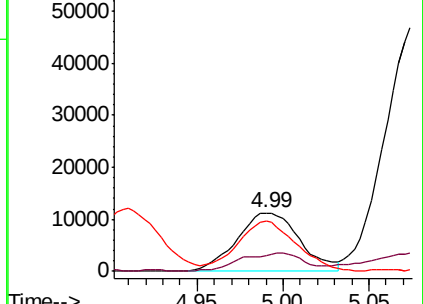
84 78.1 58.2 87.2



Abundance Ion 56.00 (55.70 to 56.70): VU031127.D (-1193) (-)

Ion 69.00 (68.70 to 69.70): VU031127.D (-1193) (-)

Ion 84.00 (83.70 to 84.70): VU031127.D (-1193) (-)



#30

1,1,1-Trichloroethane

Concen: 276.524 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

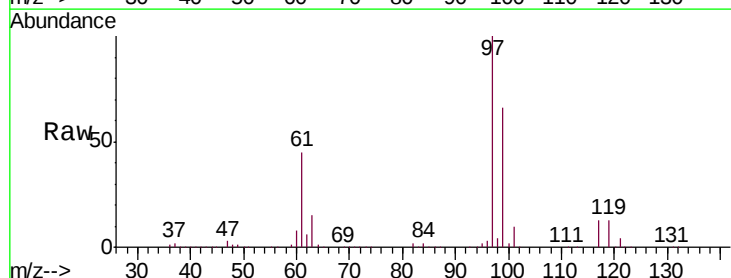
Tgt Ion: 97 Resp: 1919849

Ion Ratio Lower Upper

97 100

99 65.2 51.4 77.2

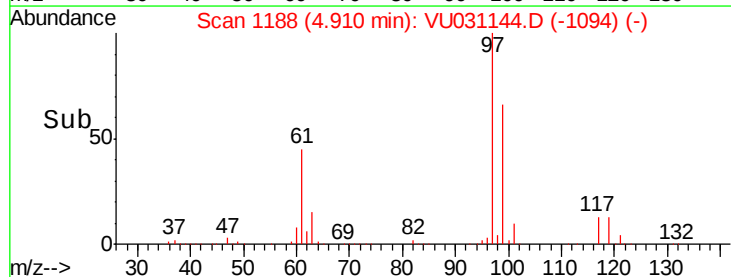
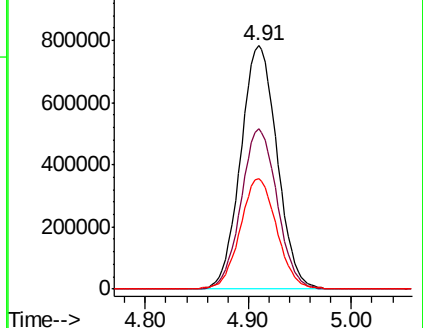
61 45.1 37.1 55.7

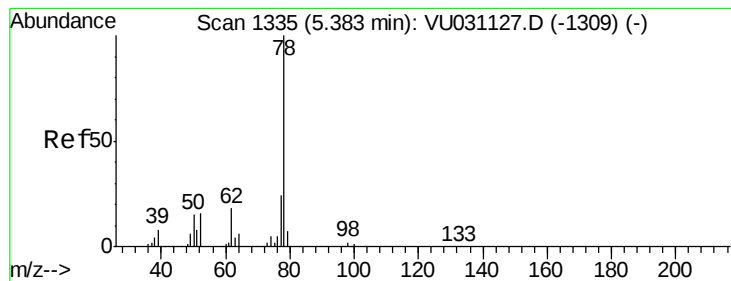


Abundance Ion 97.00 (96.70 to 97.70): VU031127.D (-1168) (-)

Ion 99.00 (98.70 to 99.70): VU031127.D (-1168) (-)

Ion 61.05 (60.75 to 61.75): VU031127.D (-1168) (-)





#33

Benzene

Concen: 36.950 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

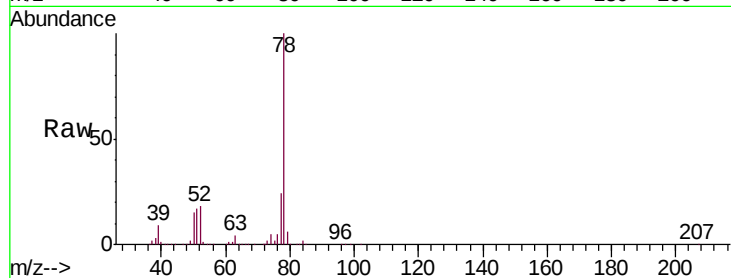
Instrument :

MSVOA_U

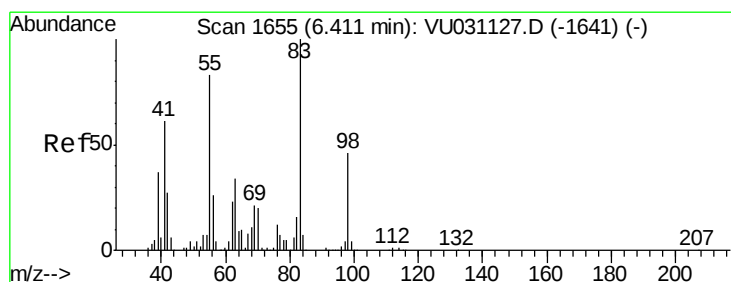
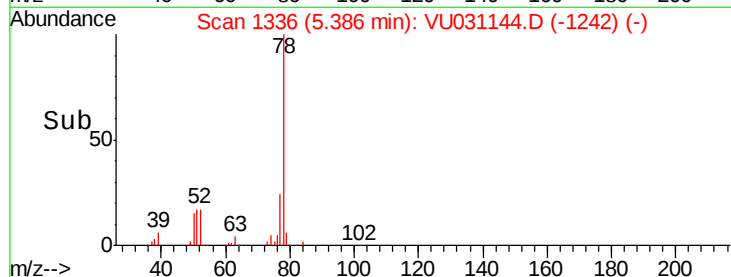
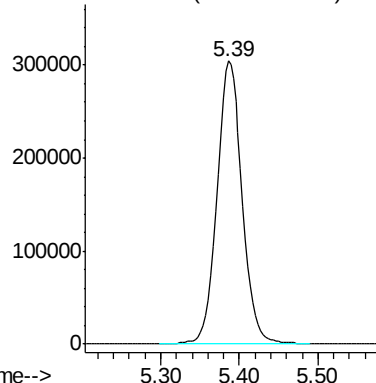
ClientSampled :

BFC34

Tgt Ion: 78 Resp: 688859



Abundance Ion 78.00 (77.70 to 78.70): VU0



#35

Methylcyclohexane

Concen: 25.936 ug/L

RT: 6.42 min Scan# 1659

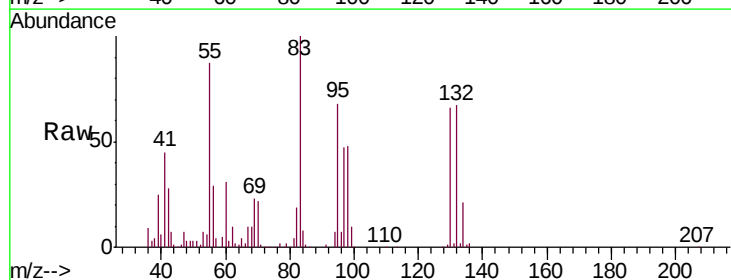
Delta R.T. 0.01 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Tgt Ion: 83 Resp: 183016

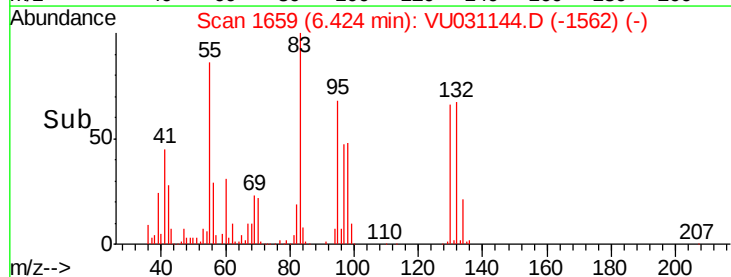
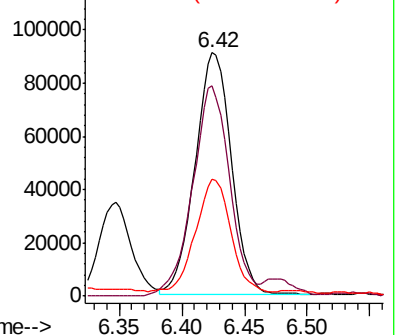
Ion	Ratio	Lower	Upper
83	100		
55	87.9	71.6	107.4
98	44.3	35.4	53.0

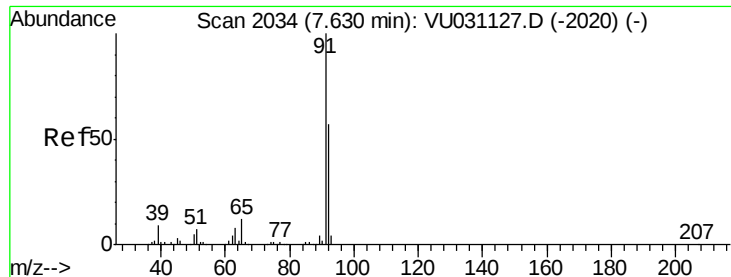


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#42

Toluene

Concen: 0.912 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VU031144.D

Acq: 12 Apr 2019 21:17

Instrument :

MSVOA_U

ClientSampleId :

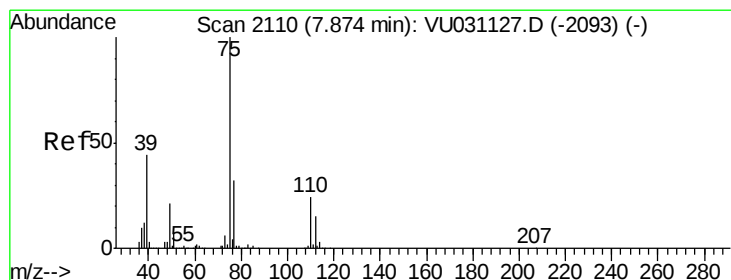
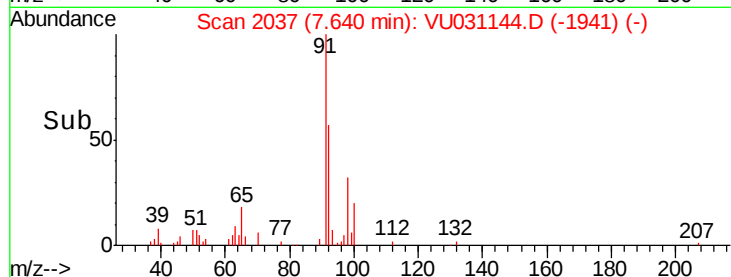
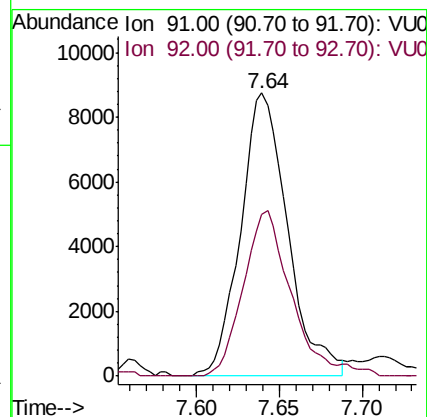
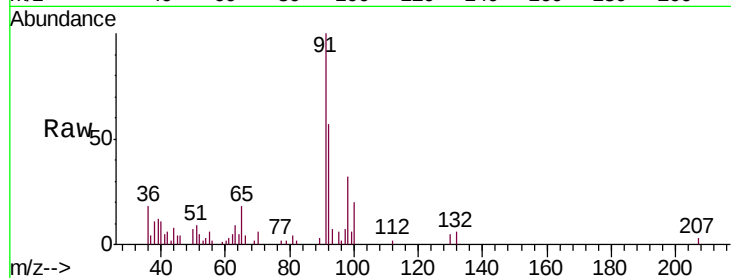
BFC34

Tgt Ion: 91 Resp: 17360

Ion Ratio Lower Upper

91 100

92 57.4 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 0.773 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU031144.D

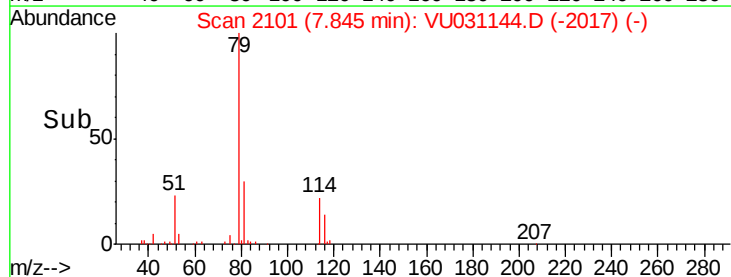
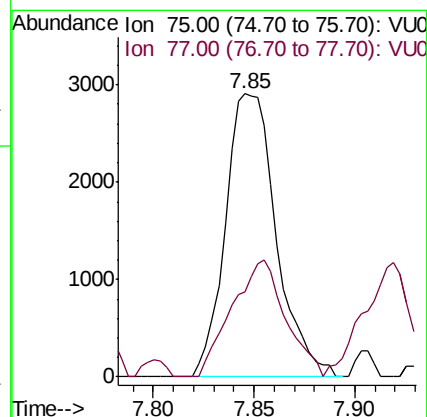
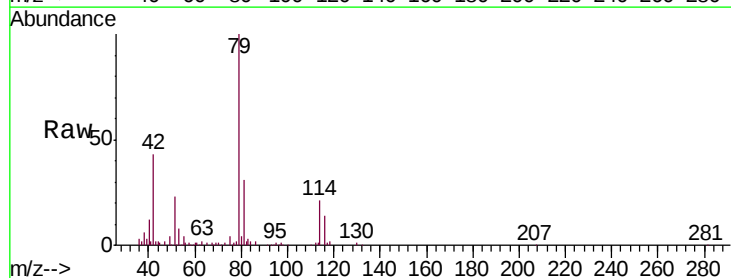
Acq: 12 Apr 2019 21:17

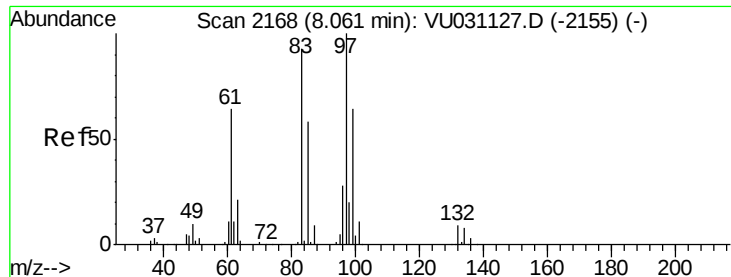
Tgt Ion: 75 Resp: 5117

Ion Ratio Lower Upper

75 100

77 30.2 21.6 40.0

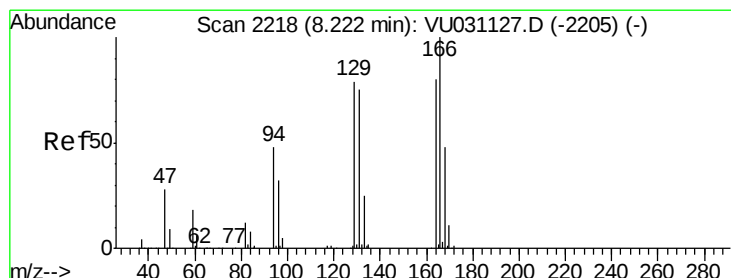
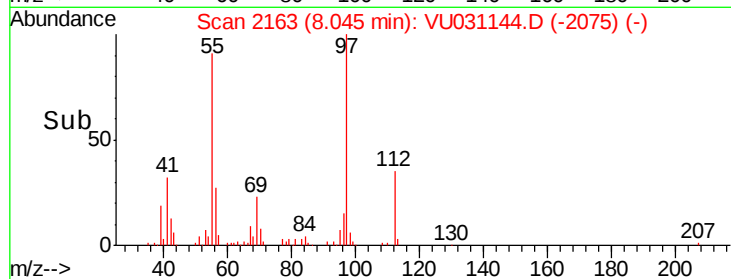
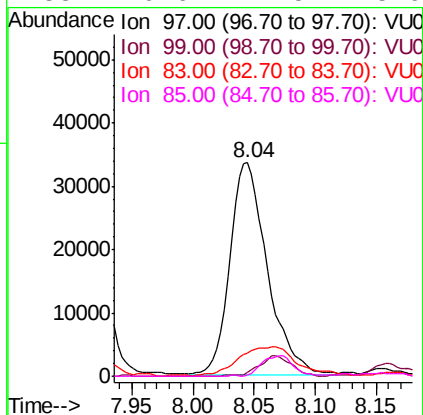
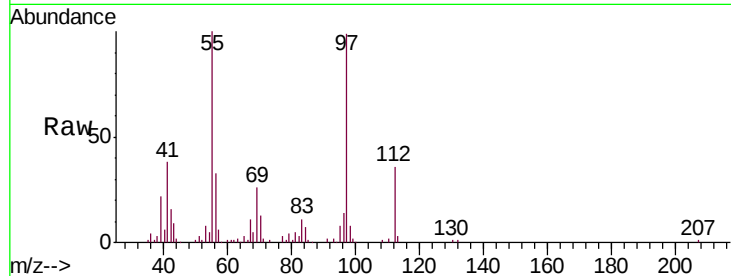




#45
 1,1,2-Trichloroethane
 Concen: 16.050 ug/L
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.02 min
 Lab File: VU031144.D
 Acq: 12 Apr 2019 21:17

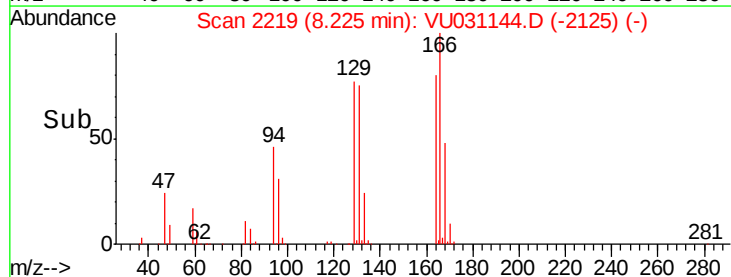
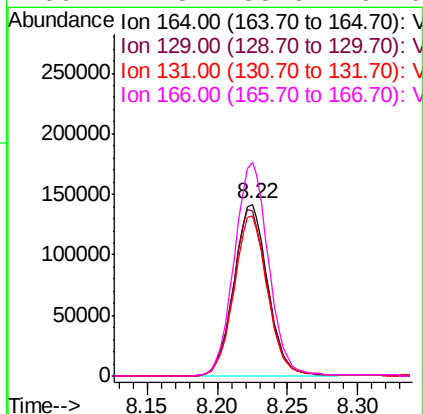
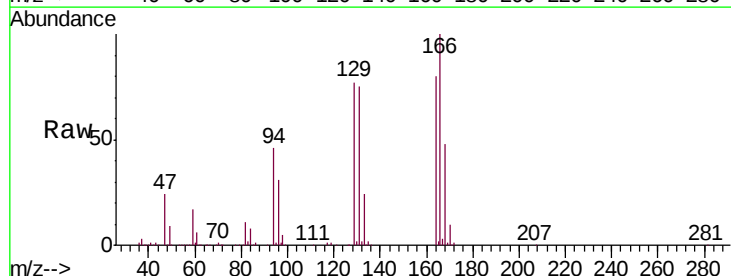
Instrument :
 MSVOA_U
 ClientSampleId :
 BFC34

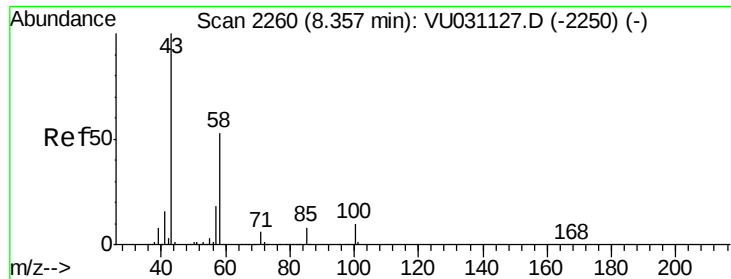
Tgt Ion: 97 Resp: 71857
 Ion Ratio Lower Upper
 97 100
 99 1.6 44.0 81.8#
 83 11.1 65.3 121.3#
 85 0.6 42.5 78.9#



#46
 Tetrachloroethene
 Concen: 71.919 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU031144.D
 Acq: 12 Apr 2019 21:17

Tgt Ion: 164 Resp: 239083
 Ion Ratio Lower Upper
 164 100
 129 95.9 67.4 125.2
 131 93.1 65.9 122.5
 166 124.3 88.6 164.6

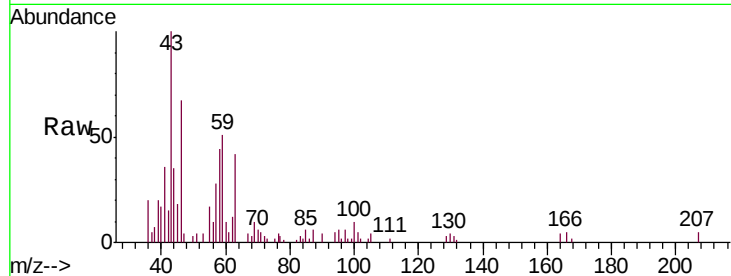




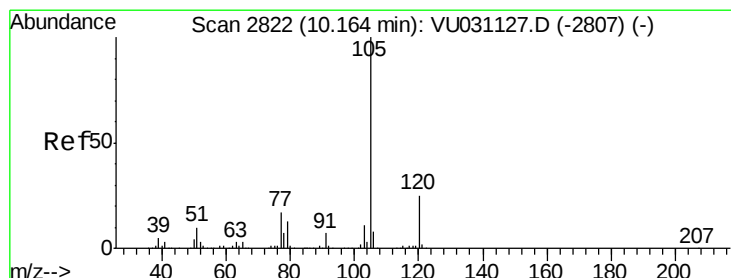
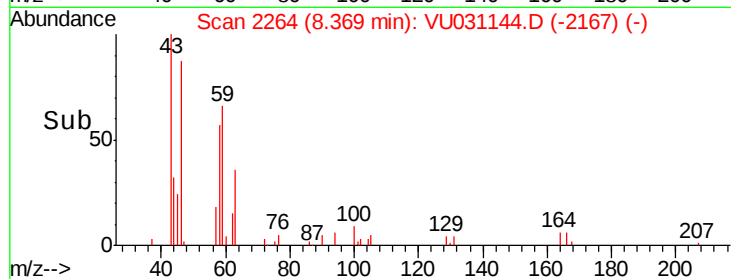
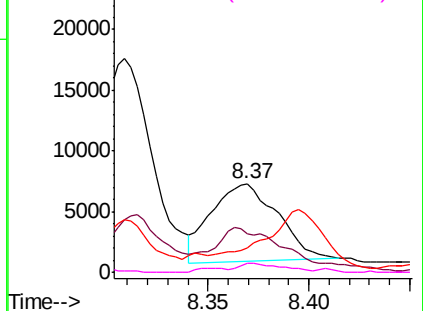
#48
2-Hexanone
Concen: 2.224 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. 0.01 min
Lab File: VU031144.D
Acq: 12 Apr 2019 21:17

Instrument :
MSVOA_U
ClientSampleId :
BFC34

Tgt Ion: 43 Resp: 14730
Ion Ratio Lower Upper
43 100
58 12.6 41.9 62.9#
57 6.9 14.3 21.5#
100 7.5 7.1 10.7

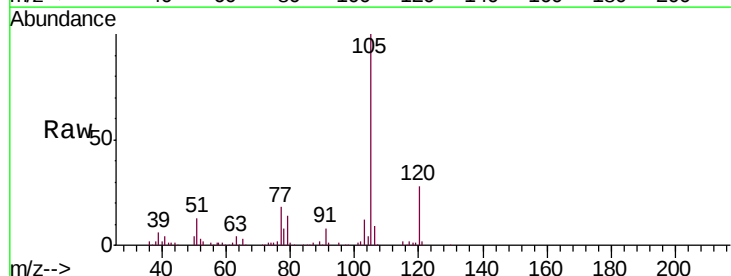


Abundance Ion 43.00 (42.70 to 43.70): VU031127.D (-2250) (-)
Ion 58.00 (57.70 to 58.70): VU031127.D (-2250) (-)
Ion 57.00 (56.70 to 57.70): VU031127.D (-2250) (-)
Ion 100.00 (99.70 to 100.70): VU031127.D (-2250) (-)

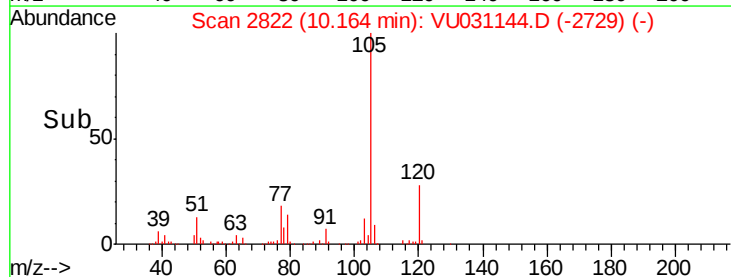
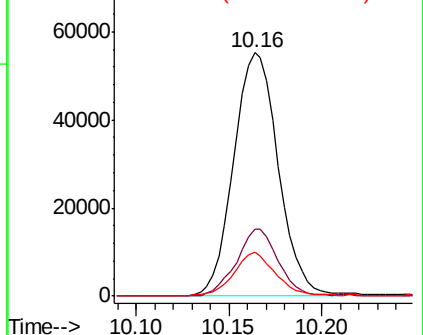


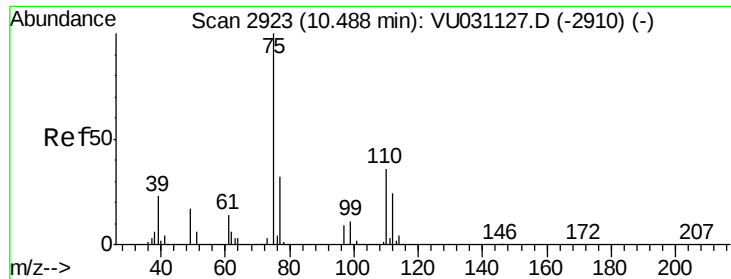
#56
Isopropylbenzene
Concen: 4.879 ug/L
RT: 10.16 min Scan# 2822
Delta R.T. -0.00 min
Lab File: VU031144.D
Acq: 12 Apr 2019 21:17

Tgt Ion: 105 Resp: 92442
Ion Ratio Lower Upper
105 100
120 25.7 20.4 30.6
77 16.7 13.4 20.2



Abundance Ion 105.00 (104.70 to 105.70): VU031127.D (-2807) (-)
Ion 120.00 (119.70 to 120.70): VU031127.D (-2807) (-)
Ion 77.00 (76.70 to 77.70): VU031127.D (-2807) (-)

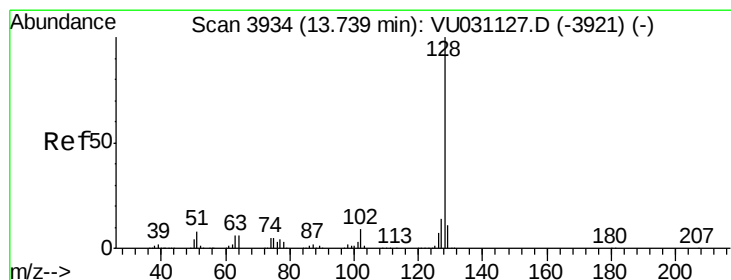
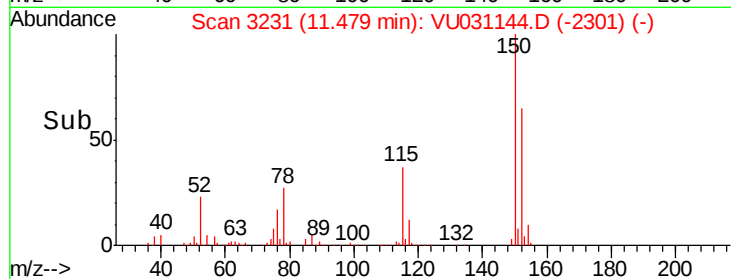
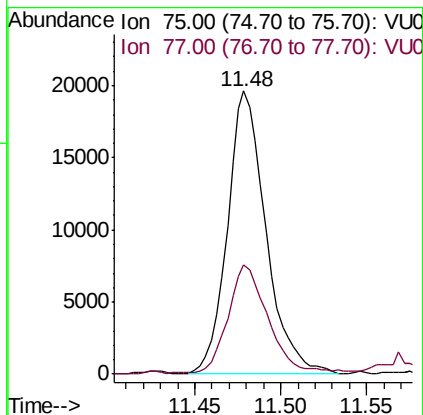
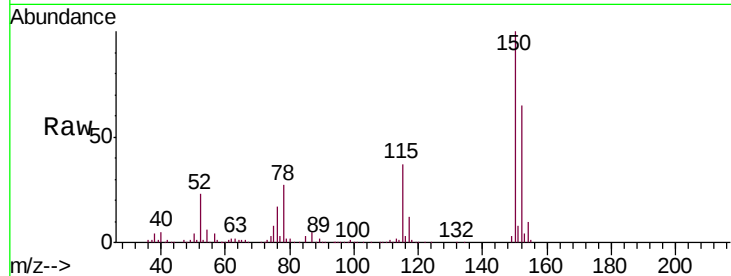




#59
 1,2,3-Trichloropropane
 Concen: 4.853 ug/L
 RT: 11.48 min Scan# 3231
 Delta R.T. 0.99 min
 Lab File: VU031144.D
 Acq: 12 Apr 2019 21:17

Instrument :
 MSVOA_U
 ClientSampleId :
 BFC34

Tgt Ion: 75 Resp: 30684
 Ion Ratio Lower Upper
 75 100
 77 38.5 26.1 39.1



#69
 Naphthalene
 Concen: 1.769 ug/L
 RT: 13.75 min Scan# 3937
 Delta R.T. 0.01 min
 Lab File: VU031144.D
 Acq: 12 Apr 2019 21:17

Tgt Ion: 128 Resp: 28593
 Ion Ratio Lower Upper
 128 100
 127 14.2 10.4 15.6
 129 10.3 8.6 12.8

