

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
 Data File : VU030929.D
 Acq On : 09 Apr 2019 01:00
 Operator : JC/SP
 Sample : K2248-16
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YD1

Quant Time: Apr 09 03:39:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR032919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Apr 09 03:34:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	229112	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	222040	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	89899	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	126369	7.22	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	144.40%#
7) Chloroethane-d5	1.68	69	79220	5.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	112.20%
11) 1,1-Dichloroethene-d2	2.27	63	211814	5.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	118.20%
20) 2-Butanone-d5	4.20	46	307675	68.20	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	136.40%#
24) Chloroform-d	4.64	84	148410	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.80%
26) 1,2-Dichloroethane-d4	5.31	65	98841	6.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	125.40%
32) Benzene-d6	5.33	84	327404	5.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	110.80%
36) 1,2-Dichloropropane-d6	6.33	67	111602	5.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	113.80%
41) Toluene-d8	7.56	98	255138	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
43) trans-1,3-Dichloropropene-	7.85	79	38524	5.29	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	105.80%
46) 2-Hexanone-d5	8.31	63	193078	60.97	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	121.94%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	92024	6.55	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	131.00%#
64) 1,2-Dichlorobenzene-d4	11.86	152	88115	5.86	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	117.20%

Target Compounds

					Ovalue
5) Vinyl chloride	1.40	62	4682112	170.791	ug/L 100
9) Trichlorofluoromethane	1.88	101	4657	0.150	ug/L 92
12) 1,1-Dichloroethene	2.28	96	111944	6.696	ug/L 84
13) Acetone	2.32	43	18087	5.186	ug/L 91
17) Methyl tert-butyl Ether	3.00	73	8267	0.185	ug/L # 91
18) trans-1,2-Dichloroethene	2.97	96	236899	13.423	ug/L 93
19) 1,1-Dichloroethane	3.43	63	14279521	382.491	ug/L 99
21) 2-Butanone	4.29	43	6063	1.097	ug/L # 53
22) cis-1,2-Dichloroethene	4.22	96	9320287	495.220	ug/L 98
25) Chloroform	4.67	83	27754	0.816	ug/L 92
27) 1,2-Dichloroethane	5.40	62	96705	4.379	ug/L 96
29) 1,1,1-Trichloroethane	4.90	97	2415171	85.383	ug/L 99
31) Carbon tetrachloride	4.91	117	307703	12.957	ug/L 98
33) Benzene	5.38	78	64921	0.864	ug/L 100
34) Trichloroethene	6.18	95	132859	7.066	ug/L 95
35) Methylcyclohexane	6.33	83	25826	0.861	ug/L # 14
37) 1,2-Dichloropropane	6.32	63	11918	0.577	ug/L # 89

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
Data File : VU030929.D
Acq On : 09 Apr 2019 01:00
Operator : JC/SP
Sample : K2248-16
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
E3YD1

Quant Time: Apr 09 03:39:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR032919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Apr 09 03:34:38 2019
Response via : Initial Calibration

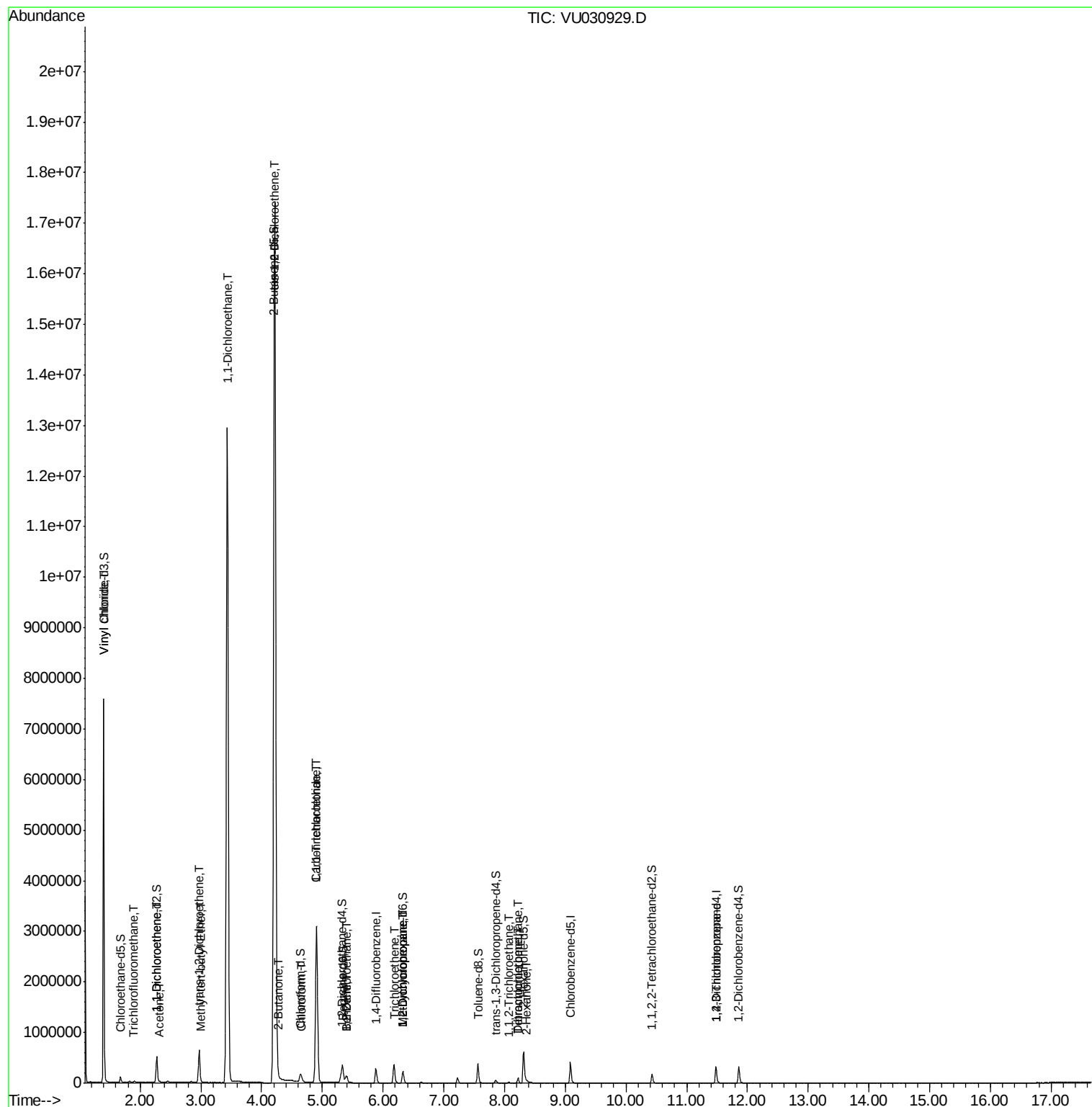
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.07	97	8254	0.670	ug/L	94
47) Tetrachloroethene	8.22	164	23547	1.785	ug/L	98
48) 2-Hexanone	8.37	43	15763	1.764	ug/L #	88
49) Dibromochloromethane	8.22	129	23354	1.584	ug/L #	13
59) 1,2,3-Trichloropropane	11.48	75	11458	0.992	ug/L	94

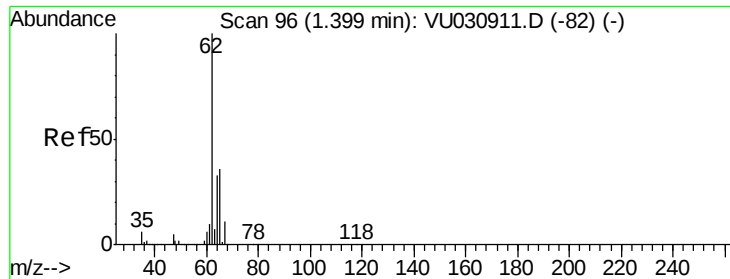
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
Data File : VU030929.D
Acq On : 09 Apr 2019 01:00
Operator : JC/SP
Sample : K2248-16
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
E3YD1

Quant Time: Apr 09 03:39:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR032919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Apr 09 03:34:38 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 170.791 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

Instrument :

MSVOA_U

ClientSampleId :

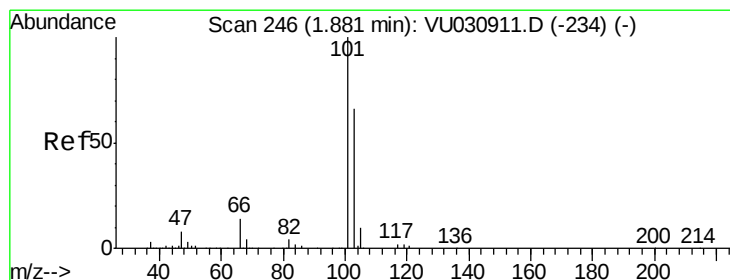
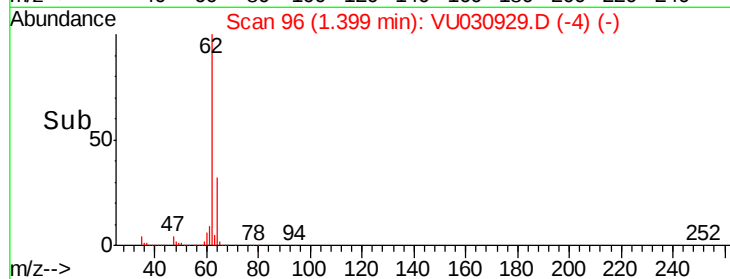
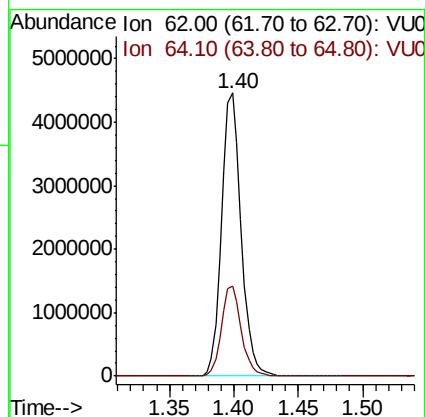
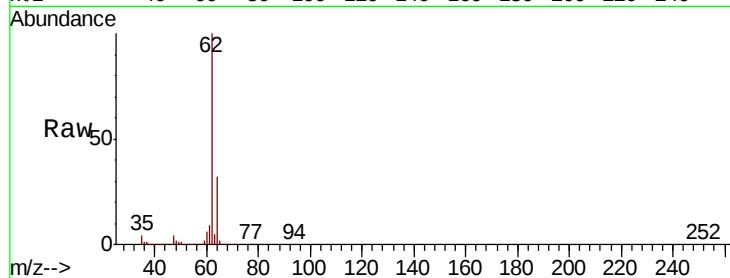
E3YD1

Tot Ion: 62 Resp: 4682112

Ion Ratio Lower Upper

62 100

64 31.9 22.5 41.9



#9

Trichlorofluoromethane

Concen: 0.150 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.01 min

Lab File: VU030929.D

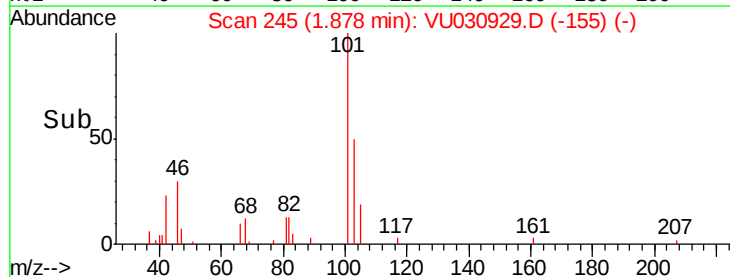
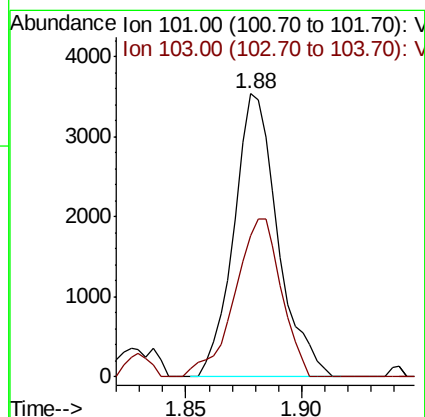
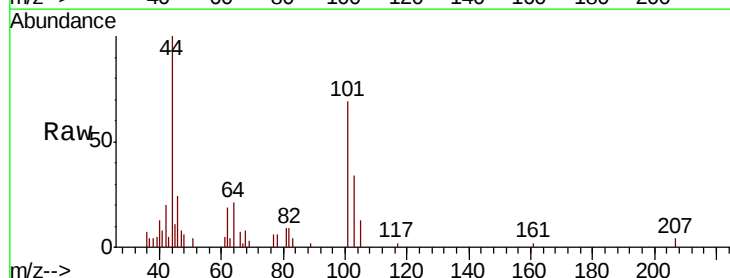
Acq: 09 Apr 2019 01:00

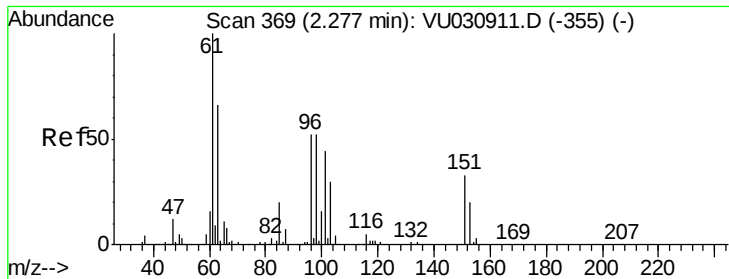
Tgt Ion: 101 Resp: 4657

Ion Ratio Lower Upper

101 100

103 58.9 52.0 78.0





#12

1,1-Dichloroethene

Concen: 6.696 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

Instrument :

MSVOA_U

ClientSampled :

E3YD1

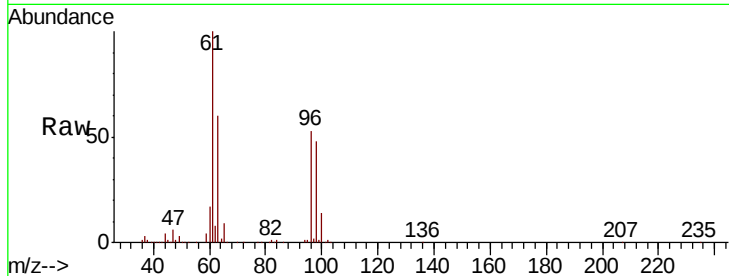
Tot Ion: 96 Resp: 111944

Ion Ratio Lower Upper

96 100

61 190.0 136.9 254.3

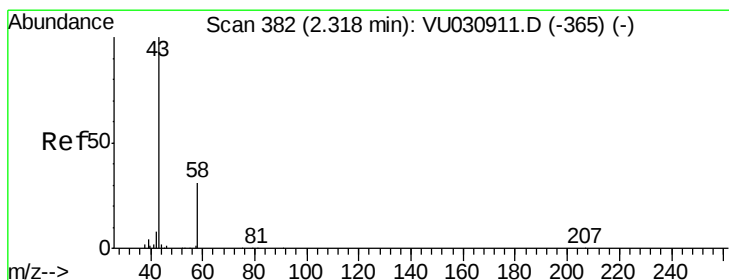
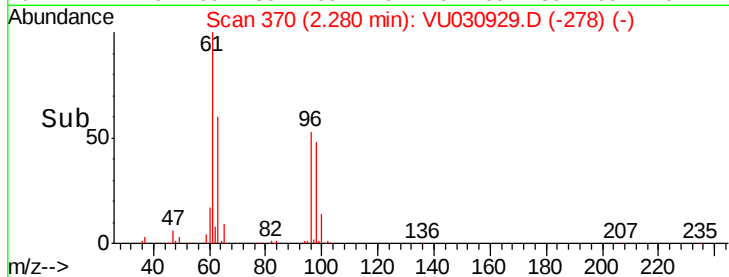
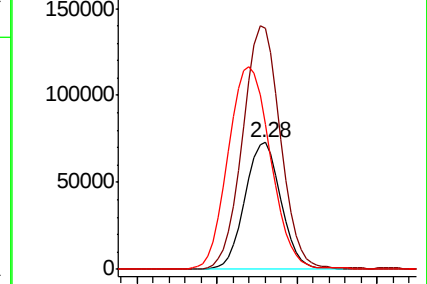
63 114.1 107.7 200.1



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 5.186 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.04 min

Lab File: VU030929.D

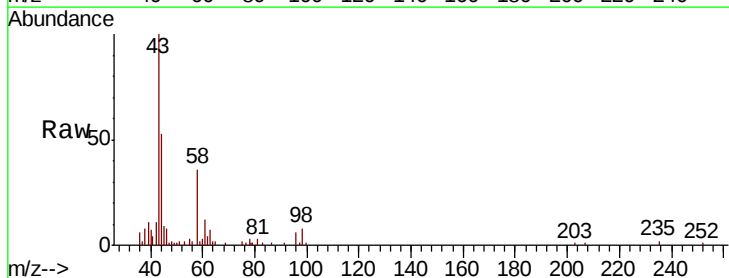
Acq: 09 Apr 2019 01:00

Tgt Ion: 43 Resp: 18087

Ion Ratio Lower Upper

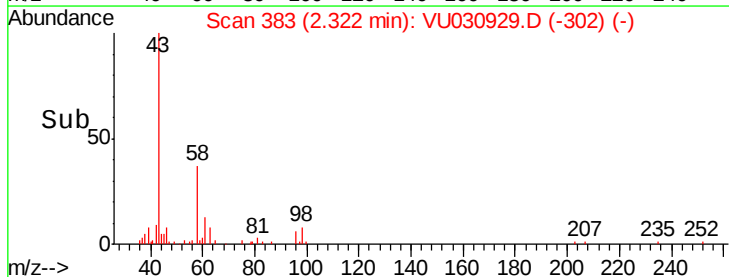
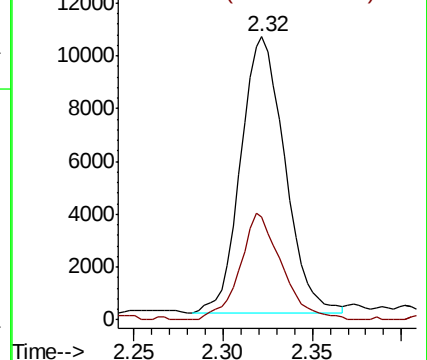
43 100

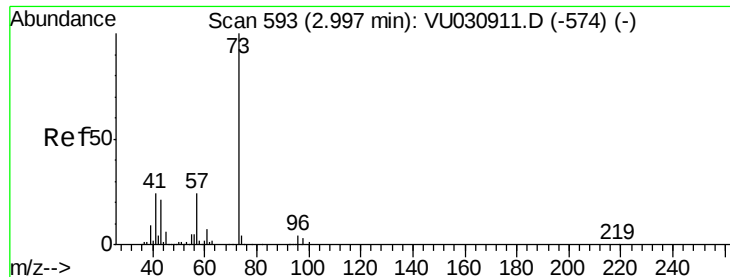
58 36.4 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



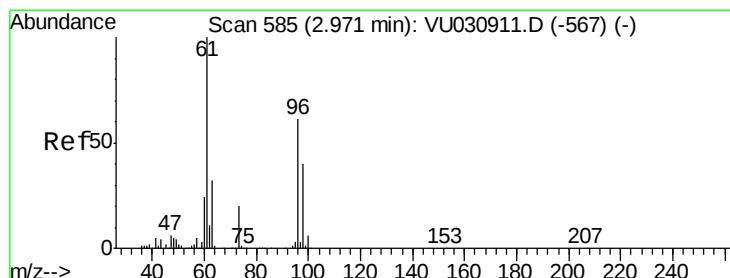
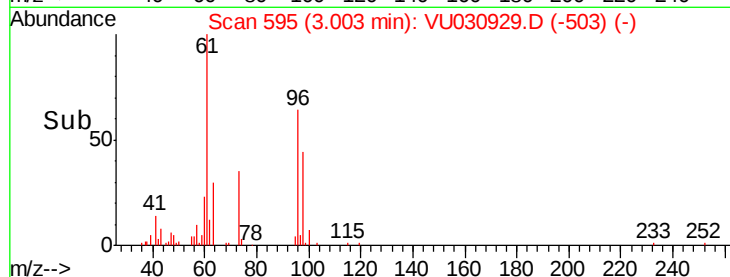
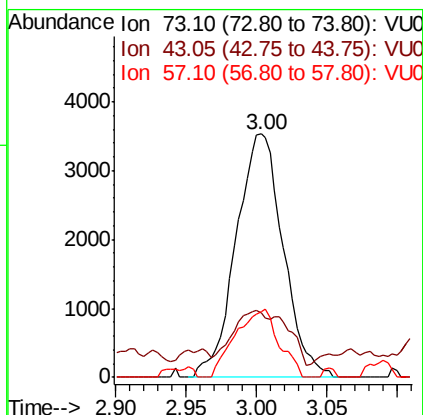
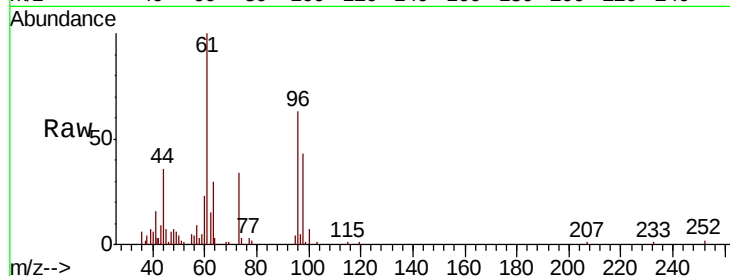


#17

Methvl tert-butvl Ether
 Concen: 0.185 ug/L
 RT: 3.00 min Scan# 595
 Delta R.T. -0.00 min
 Lab File: VU030929.D
 Acq: 09 Apr 2019 01:00

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YD1

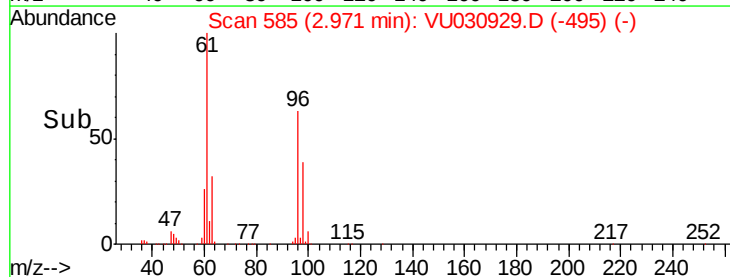
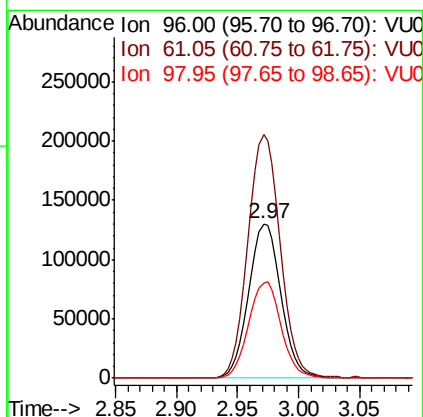
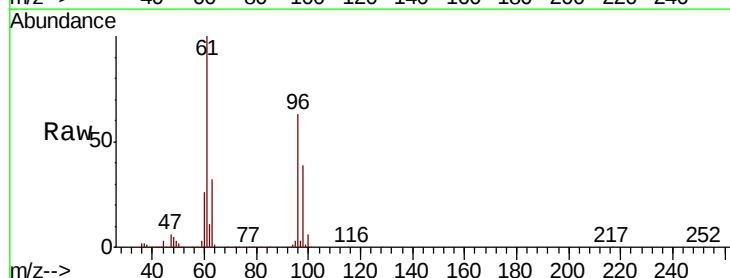
Tot Ion: 73 Resp: 8267
 Ion Ratio Lower Upper
 73 100
 43 13.9 17.0 25.4#
 57 25.9 19.4 29.2

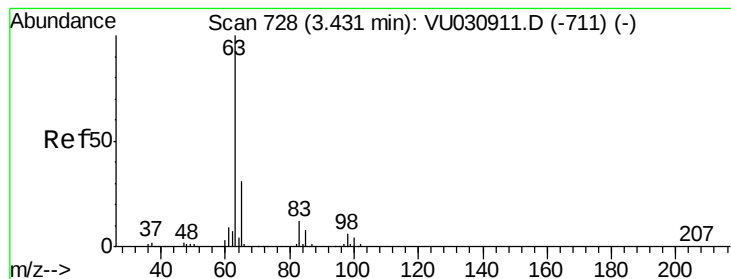


#18

trans-1,2-Dichloroethene
 Concen: 13.423 ug/L
 RT: 2.97 min Scan# 585
 Delta R.T. -0.01 min
 Lab File: VU030929.D
 Acq: 09 Apr 2019 01:00

Tgt Ion: 96 Resp: 236899
 Ion Ratio Lower Upper
 96 100
 61 157.7 116.8 216.8
 98 61.9 46.8 87.0





#19

1,1-Dichloroethane

Concen: 382.491 ug/L

RT: 3.43 min Scan# 729

Delta R.T. -0.01 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

Instrument :

MSVOA_U

ClientSampled :

E3YD1

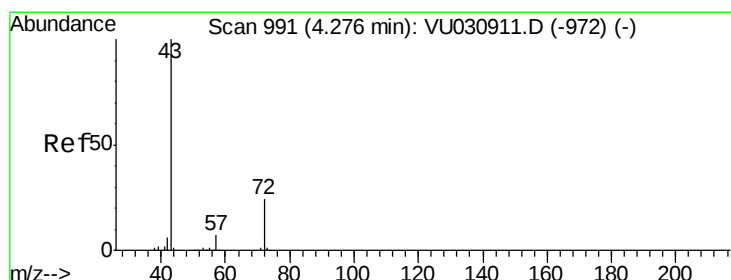
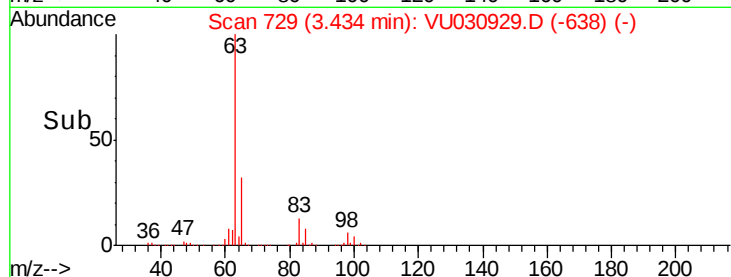
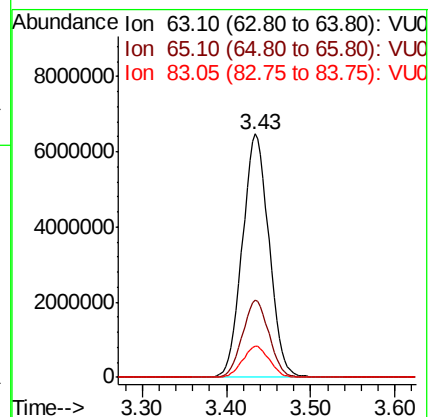
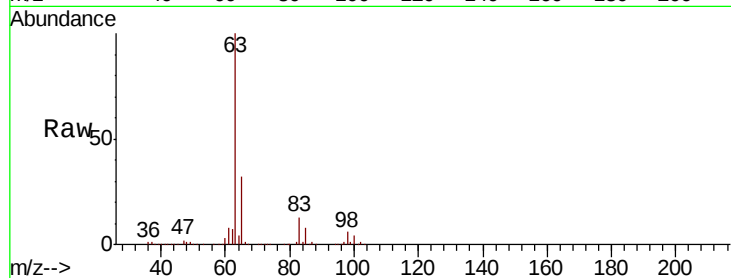
Tot Ion: 63 Resp:14279521

Ion Ratio Lower Upper

63 100

65 31.9 21.6 40.0

83 12.9 9.1 16.9



#21

2-Butanone

Concen: 1.097 ug/L

RT: 4.29 min Scan# 994

Delta R.T. -0.01 min

Lab File: VU030929.D

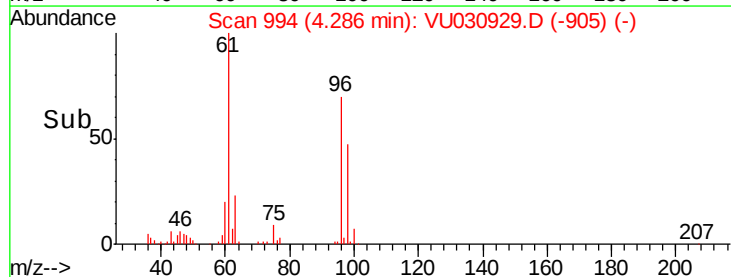
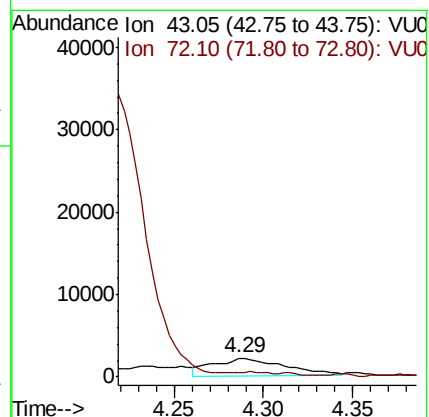
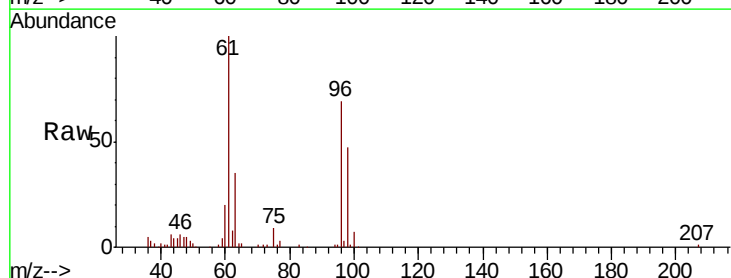
Acq: 09 Apr 2019 01:00

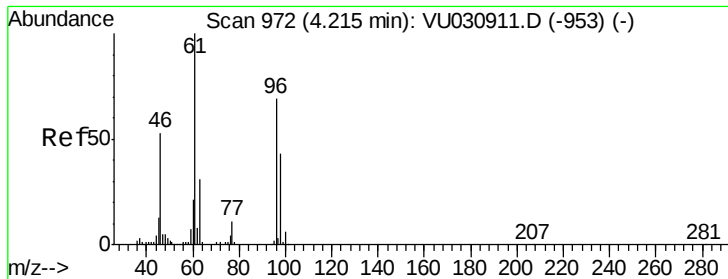
Tgt Ion: 43 Resp: 6063

Ion Ratio Lower Upper

43 100

72 0.0 11.2 33.5#



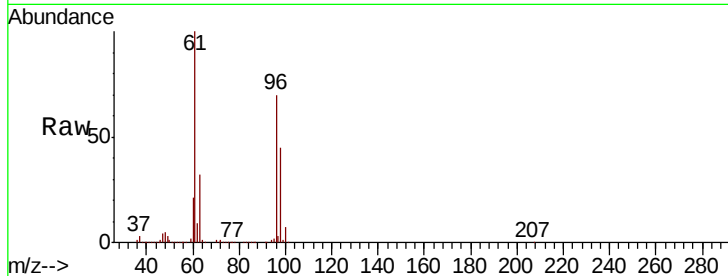


#22

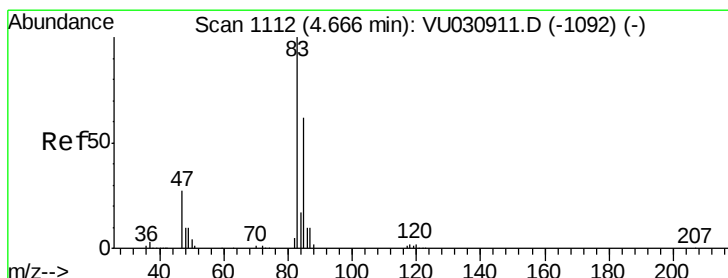
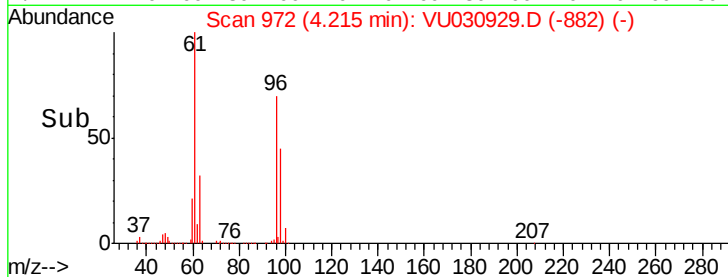
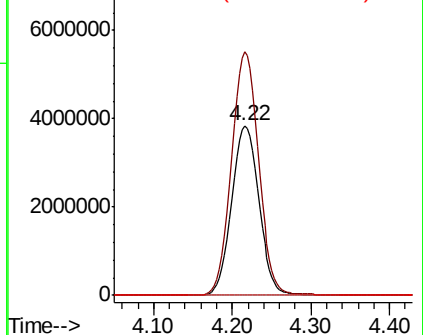
cis-1,2-Dichloroethene
 Concen: 495.220 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. -0.01 min
 Lab File: VU030929.D
 Acq: 09 Apr 2019 01:00

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YD1

Tot Ion: 96 Resp: 9320287
 Ion Ratio Lower Upper
 96 100
 61 143.4 98.9 183.7
 68 0.0 0.0 0.0



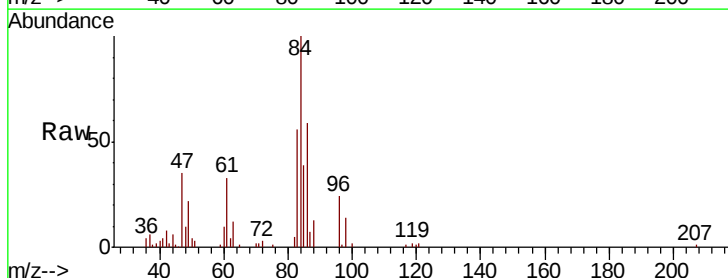
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



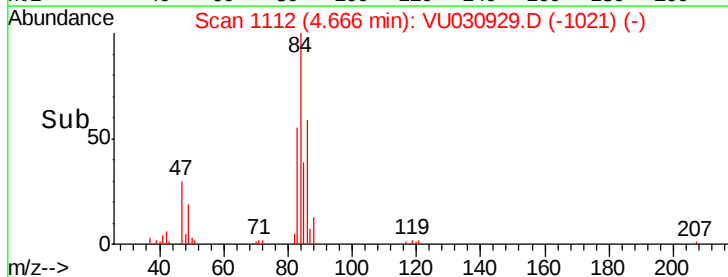
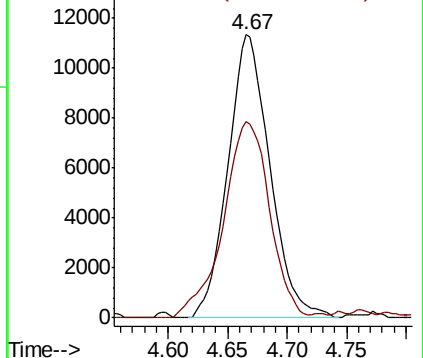
#25

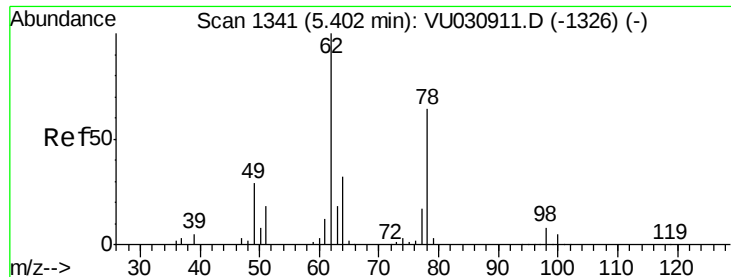
Chloroform
 Concen: 0.816 ug/L
 RT: 4.67 min Scan# 1112
 Delta R.T. -0.01 min
 Lab File: VU030929.D
 Acq: 09 Apr 2019 01:00

Tgt Ion: 83 Resp: 27754
 Ion Ratio Lower Upper
 83 100
 85 69.3 44.2 82.2



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0

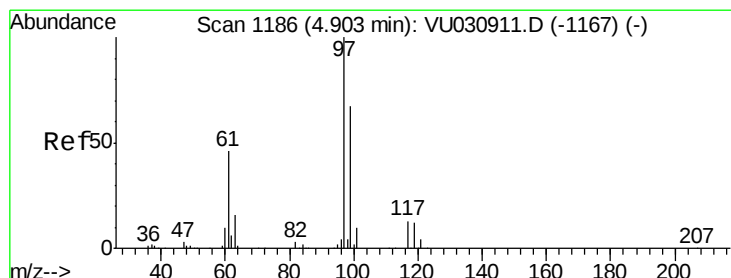
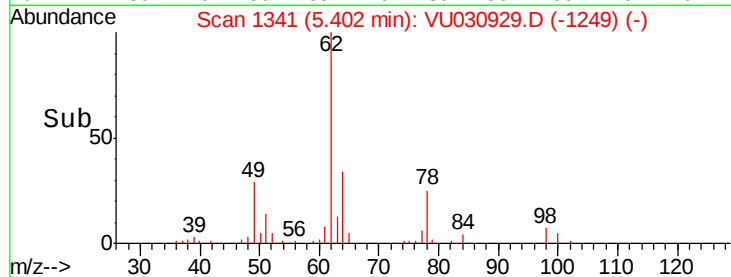
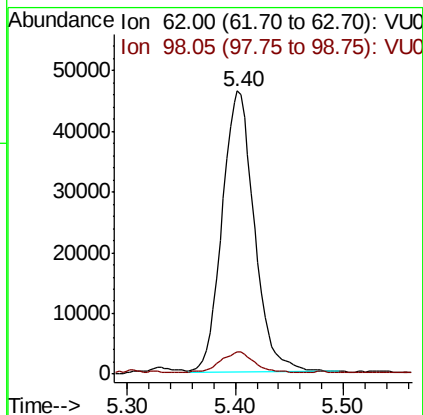
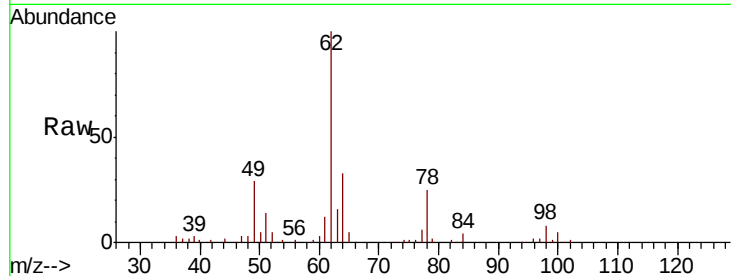




#27
 1,2-Dichloroethane
 Concen: 4.379 ug/L
 RT: 5.40 min Scan# 1341
 Delta R.T. -0.00 min
 Lab File: VU030929.D
 Acq: 09 Apr 2019 01:00

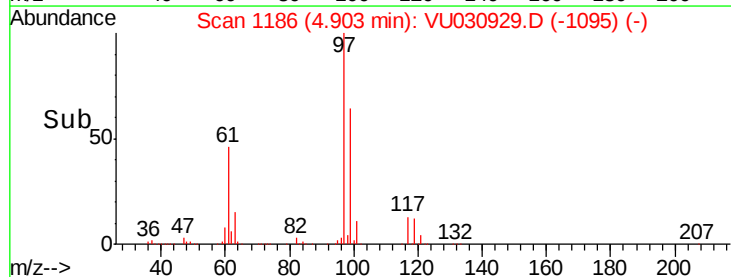
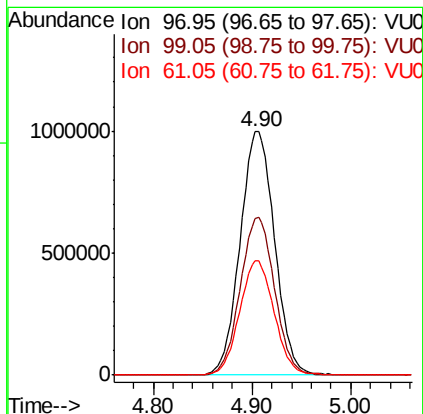
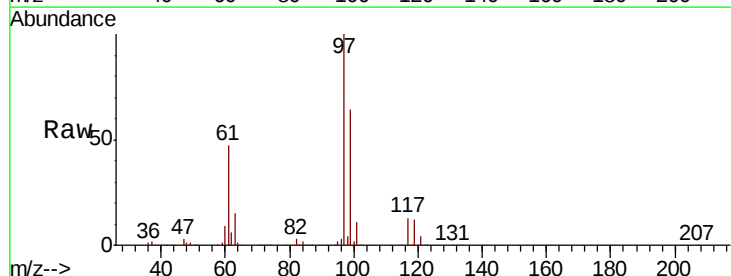
Instrument :
 MSVOA_U
 ClientSampleId :
 E3YD1

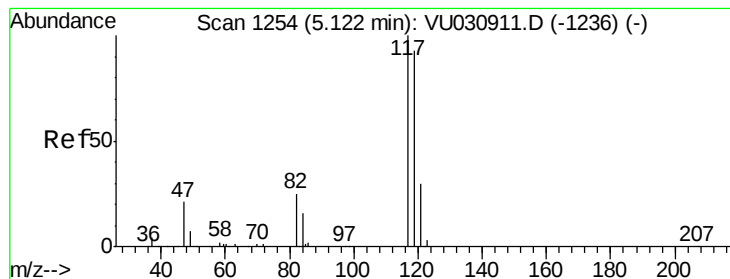
Tot Ion: 62 Resp: 96705
 Ion Ratio Lower Upper
 62 100
 98 7.9 7.4 11.2



#29
 1,1,1-Trichloroethane
 Concen: 85.383 ug/L
 RT: 4.90 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: VU030929.D
 Acq: 09 Apr 2019 01:00

Tgt Ion: 97 Resp: 2415171
 Ion Ratio Lower Upper
 97 100
 99 64.6 51.8 77.6
 61 46.3 38.1 57.1





#31

Carbon tetrachloride

Concen: 12.957 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. -0.22 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

Instrument :

MSVOA_U

ClientSampleId :

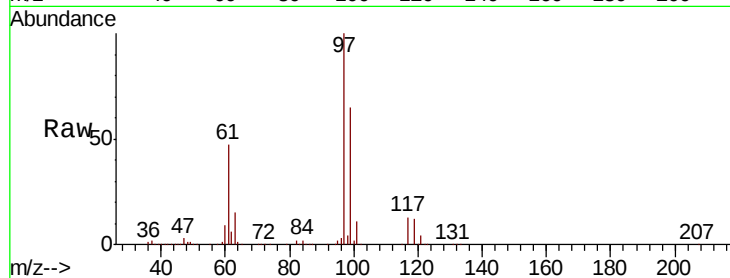
E3YD1

Tot Ion:117 Resp: 307703

Ion Ratio Lower Upper

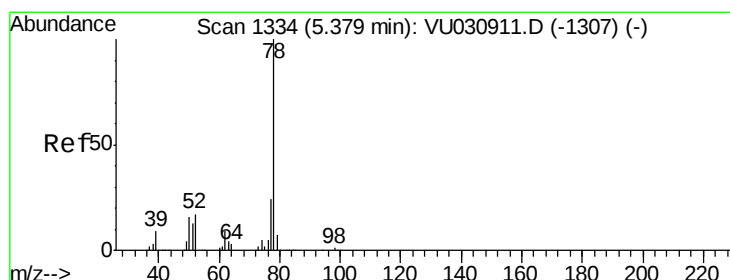
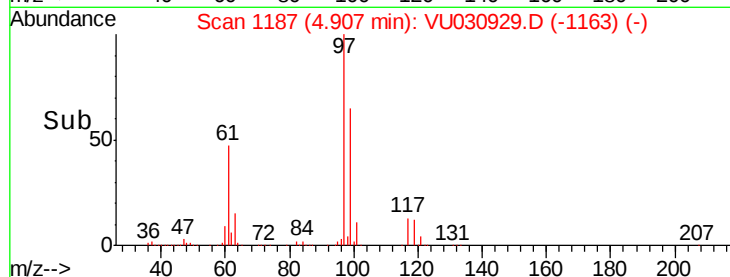
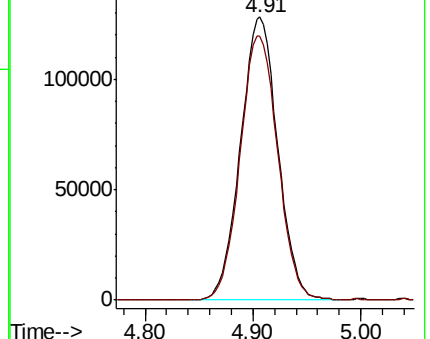
117 100

119 94.4 73.7 110.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.864 ug/L

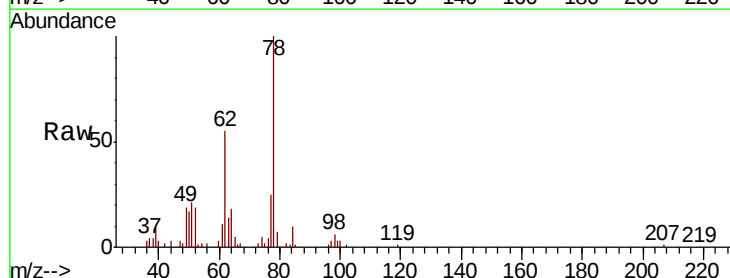
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

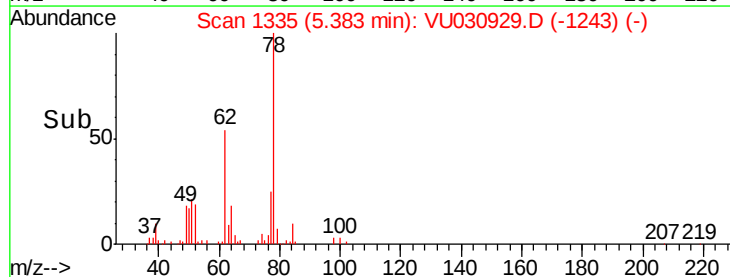
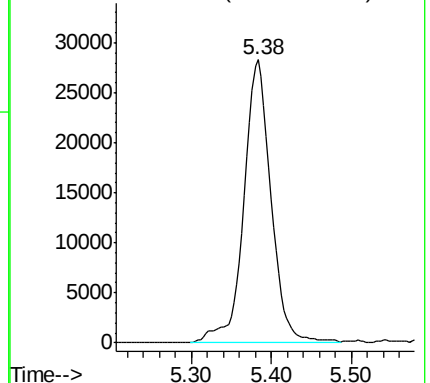
Lab File: VU030929.D

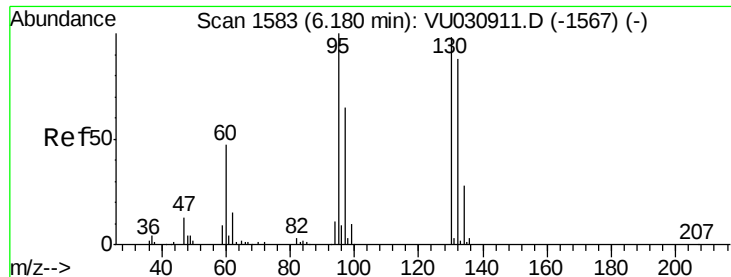
Acq: 09 Apr 2019 01:00

Tgt Ion: 78 Resp: 64921



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 7.066 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

Instrument :

MSVOA_U

ClientSampled :

E3YD1

Tot Ion: 95 Resp: 132859

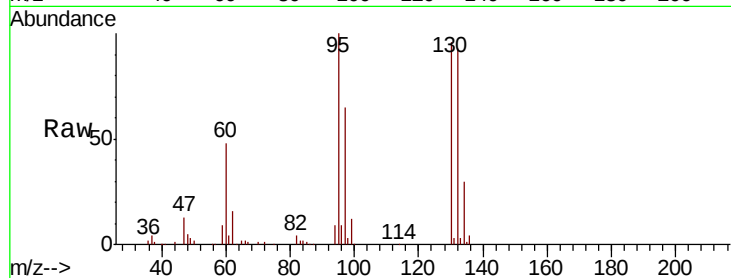
Ion Ratio Lower Upper

95 100

97 65.3 43.5 80.9

132 93.2 60.7 112.7

130 96.0 65.1 120.9

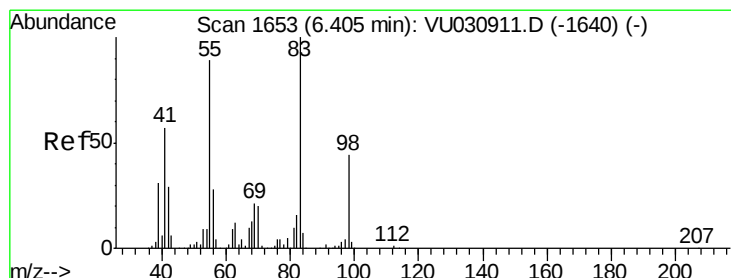
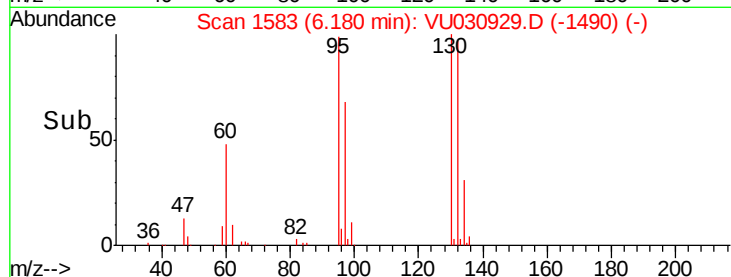
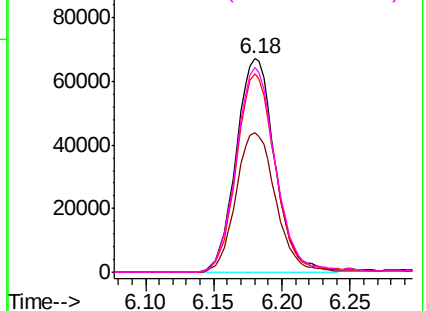


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.861 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

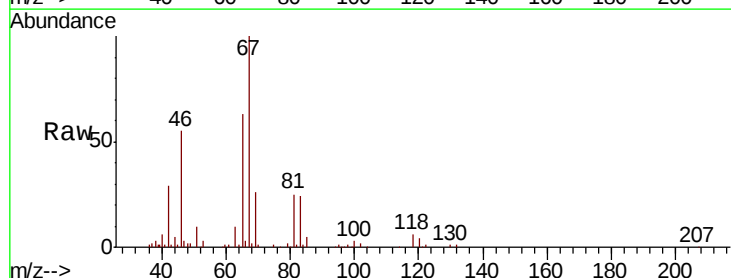
Tgt Ion: 83 Resp: 25826

Ion Ratio Lower Upper

83 100

55 0.0 72.6 108.8#

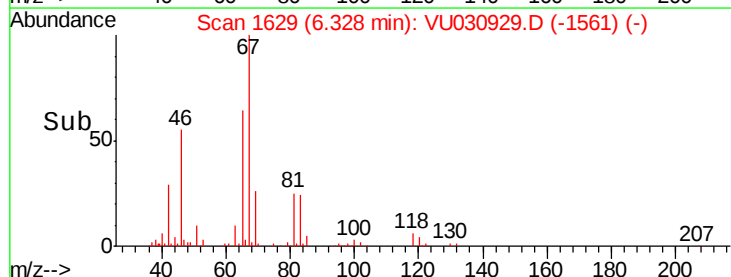
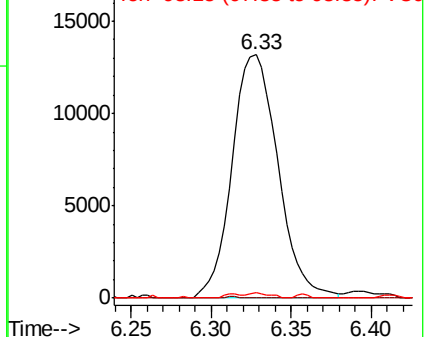
98 1.1 35.0 52.6#

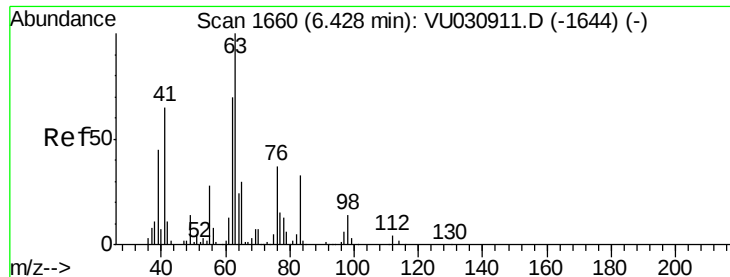


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

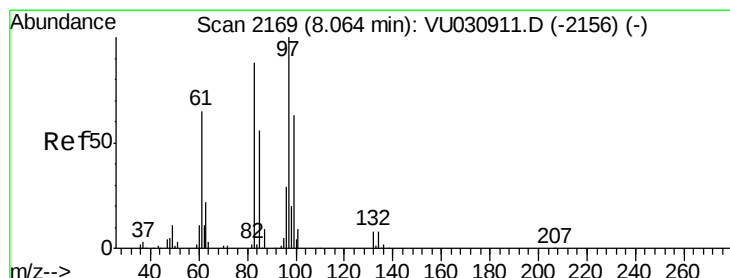
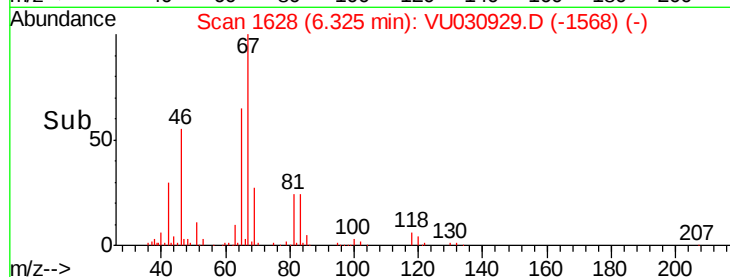
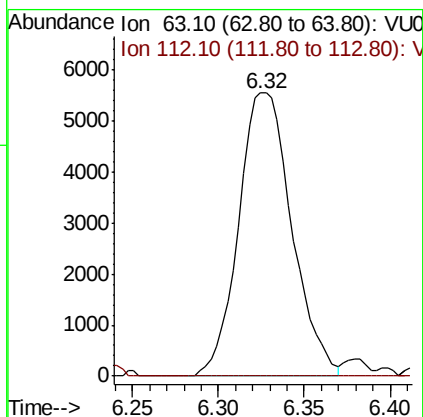
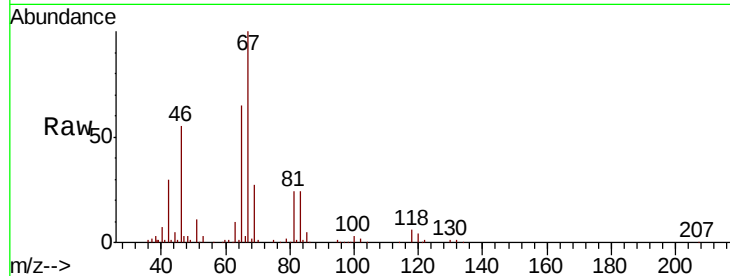




#37
 1,2-Dichloropropane
 Concen: 0.577 ug/L
 RT: 6.32 min Scan# 1628
 Delta R.T. -0.11 min
 Lab File: VU030929.D
 Acq: 09 Apr 2019 01:00

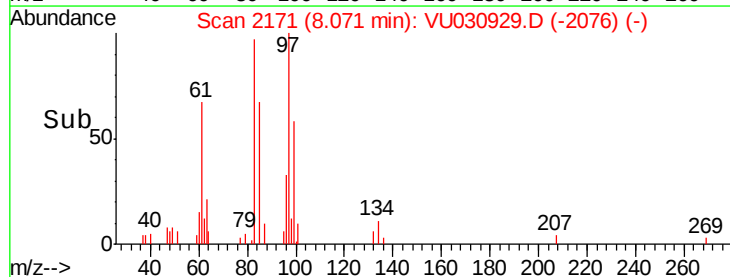
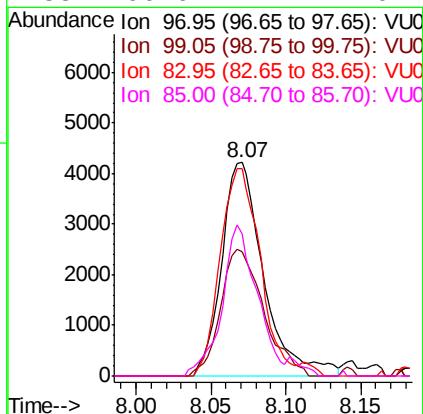
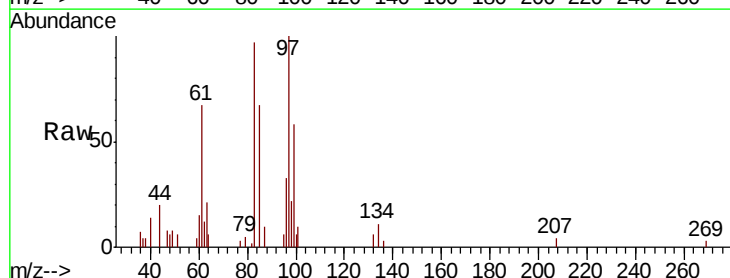
Instrument :
 MSVOA_U
 ClientSampleId :
 E3YD1

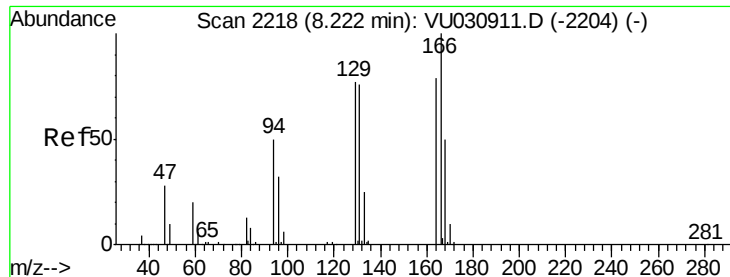
Tot Ion: 63 Resp: 11918
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.8 4.2#



#45
 1,1,2-Trichloroethane
 Concen: 0.670 ug/L
 RT: 8.07 min Scan# 2171
 Delta R.T. 0.01 min
 Lab File: VU030929.D
 Acq: 09 Apr 2019 01:00

Tgt Ion: 97 Resp: 8254
 Ion Ratio Lower Upper
 97 100
 99 58.0 45.3 84.1
 83 97.0 66.5 123.5
 85 66.6 41.2 76.4

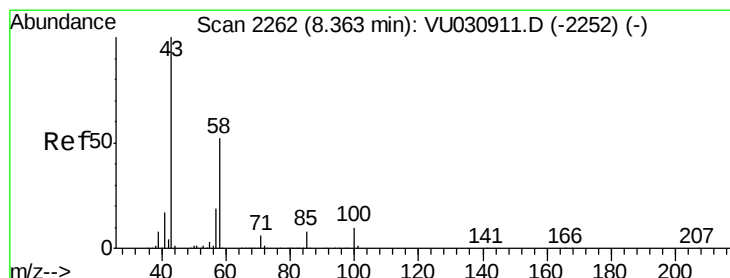
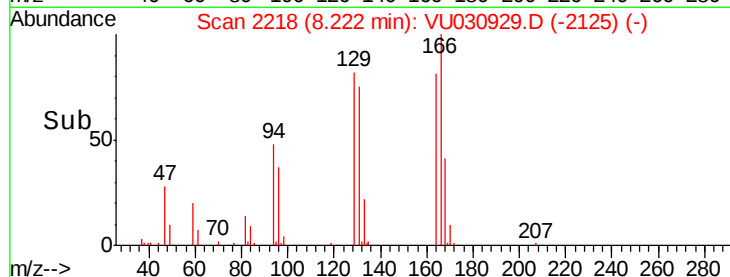
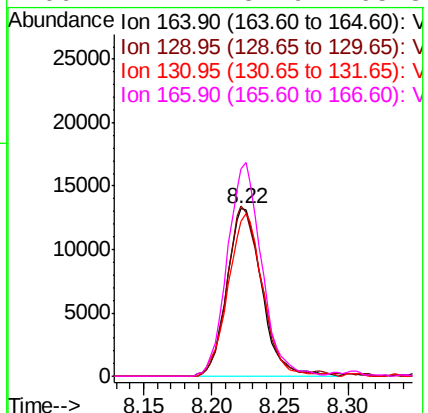
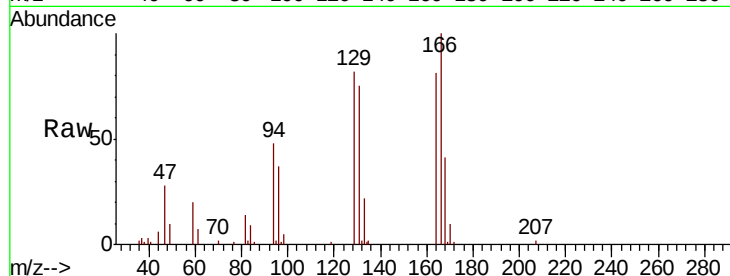




#47
Tetrachloroethene
Concen: 1.785 ug/L
RT: 8.22 min Scan# 2218
Delta R.T. -0.00 min
Lab File: VU030929.D
Acq: 09 Apr 2019 01:00

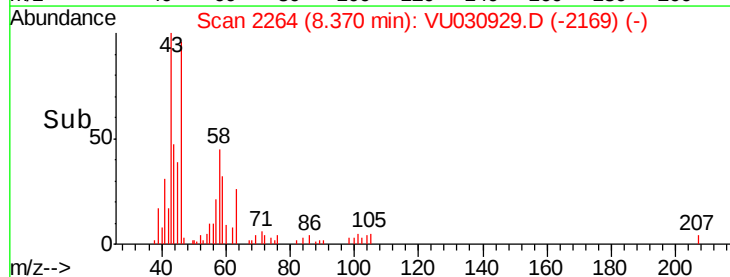
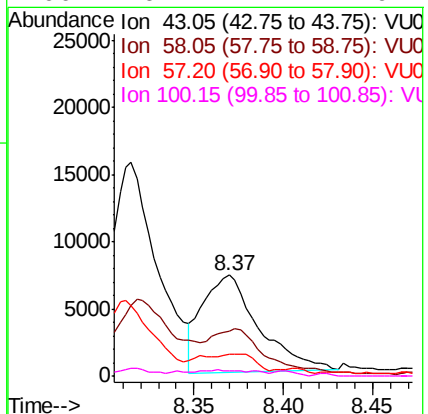
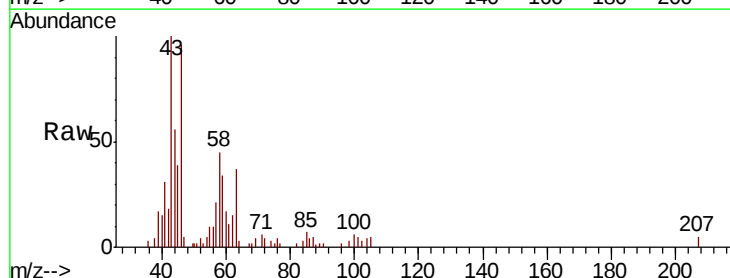
Instrument :
MSVOA_U
ClientSampled :
E3YD1

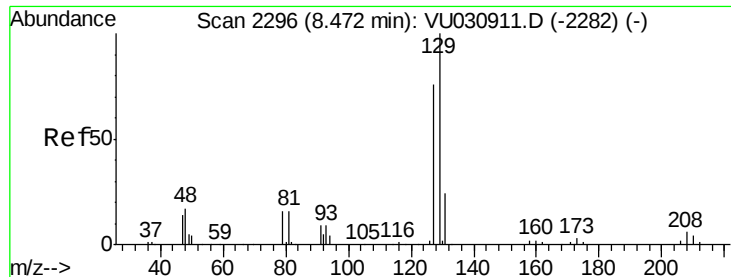
Tot Ion:164 Resp: 23547
Ion Ratio Lower Upper
164 100
129 101.8 70.1 130.1
131 92.6 67.8 125.8
166 124.2 87.9 163.3



#48
2-Hexanone
Concen: 1.764 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. 0.01 min
Lab File: VU030929.D
Acq: 09 Apr 2019 01:00

Tgt Ion: 43 Resp: 15763
Ion Ratio Lower Upper
43 100
58 43.7 42.5 63.7
57 12.3 13.9 20.9#
100 6.4 7.1 10.7#





#49

Dibromochloromethane

Concen: 1.584 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.25 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

Instrument :

MSVOA_U

ClientSampleId :

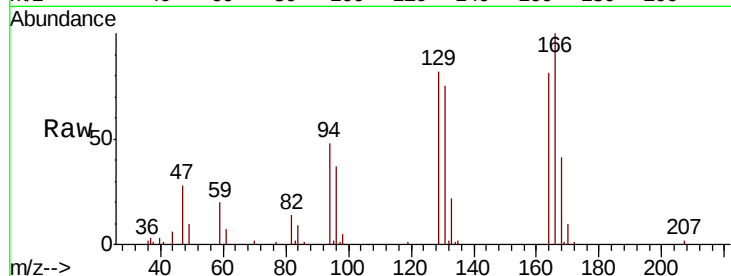
E3YD1

Tot Ion:129 Resp: 23354

Ion Ratio Lower Upper

129 100

127 0.0 51.1 94.9#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.22

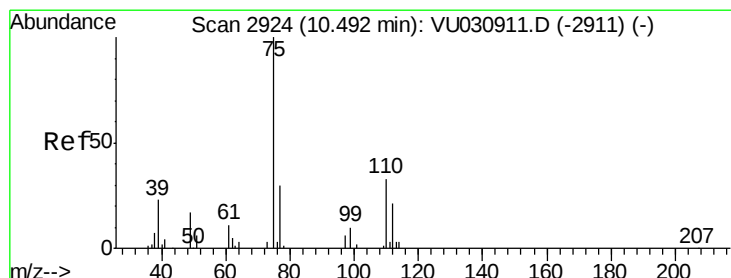
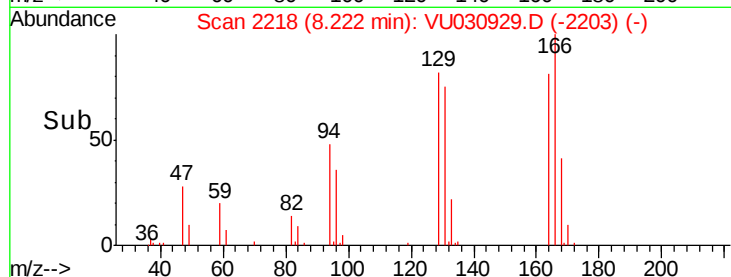
15000

10000

5000

0

Time--> 8.15 8.20 8.25 8.30



#59

1,2,3-Trichloropropane

Concen: 0.992 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU030929.D

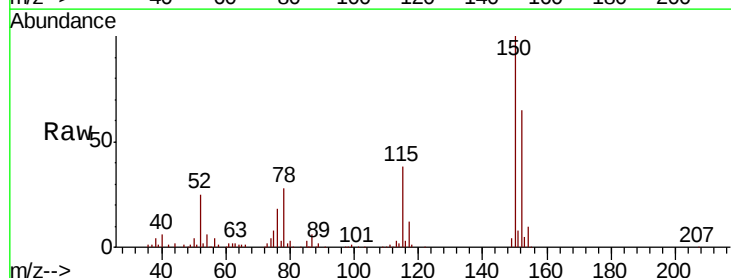
Acq: 09 Apr 2019 01:00

Tgt Ion: 75 Resp: 11458

Ion Ratio Lower Upper

75 100

77 35.4 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.48

6000

4000

2000

0

Time--> 11.40 11.45 11.50 11.55

