

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\
 Data File : VU031059.D
 Acq On : 11 Apr 2019 11:08
 Operator : JC/SP
 Sample : K2341-07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DB722

Quant Time: Apr 12 03:12:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 12 03:03:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	498359	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	487539	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	221200	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	208656	46.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.80%
7) Chloroethane-d5	1.68	69	175307	51.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.84%
11) 1,1-Dichloroethene-d2	2.27	63	290344	36.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.16%
21) 2-Butanone-d5	4.17	46	368210	104.43	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.43%
24) Chloroform-d	4.64	84	350276	51.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.08%
26) 1,2-Dichloroethane-d4	5.30	65	242773	52.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.70%
32) Benzene-d6	5.33	84	727052	51.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.16%
36) 1,2-Dichloropropane-d6	6.32	67	248514	50.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.90%
41) Toluene-d8	7.56	98	639886	50.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.44%
43) trans-1,3-Dichloropropene-	7.85	79	105680	47.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.02%
47) 2-Hexanone-d5	8.31	63	228325	102.42	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.42%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	344359	52.34	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.68%
64) 1,2-Dichlorobenzene-d4	11.86	152	233223	53.61	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.22%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	3162	0.886	ug/L #	20
12) 1,1-Dichloroethene	2.27	96	3254	0.945	ug/L #	1
13) Acetone	2.32	43	32962	9.136	ug/L	100
17) trans-1,2-Dichloroethene	2.98	96	22828	6.241	ug/L	93
20) cis-1,2-Dichloroethene	4.22	96	1799784	445.628	ug/L	94
25) Chloroform	4.67	83	56775	7.483	ug/L	98
34) Trichloroethene	6.18	95	955858	244.272	ug/L	97
38) Bromodichloromethane	6.76	83	11503	2.111	ug/L #	96
42) Toluene	7.63	91	420298	25.808	ug/L	98
44) trans-1,3-Dichloropropene	7.85	75	4216	0.744	ug/L #	73
45) 1,1,2-Trichloroethane	8.22	97	34536	9.014	ug/L #	1
46) Tetrachloroethene	8.22	164	4039808	1420.000	ug/L	99
48) 2-Hexanone	8.37	43	19023	3.356	ug/L #	82
49) Dibromochloromethane	8.47	129	5601	1.378	ug/L	95
58) 1,1,2,2-Tetrachloroethane	10.45	83	4448	0.642	ug/L #	94
59) 1,2,3-Trichloropropane	11.48	75	26150	4.833	ug/L #	85

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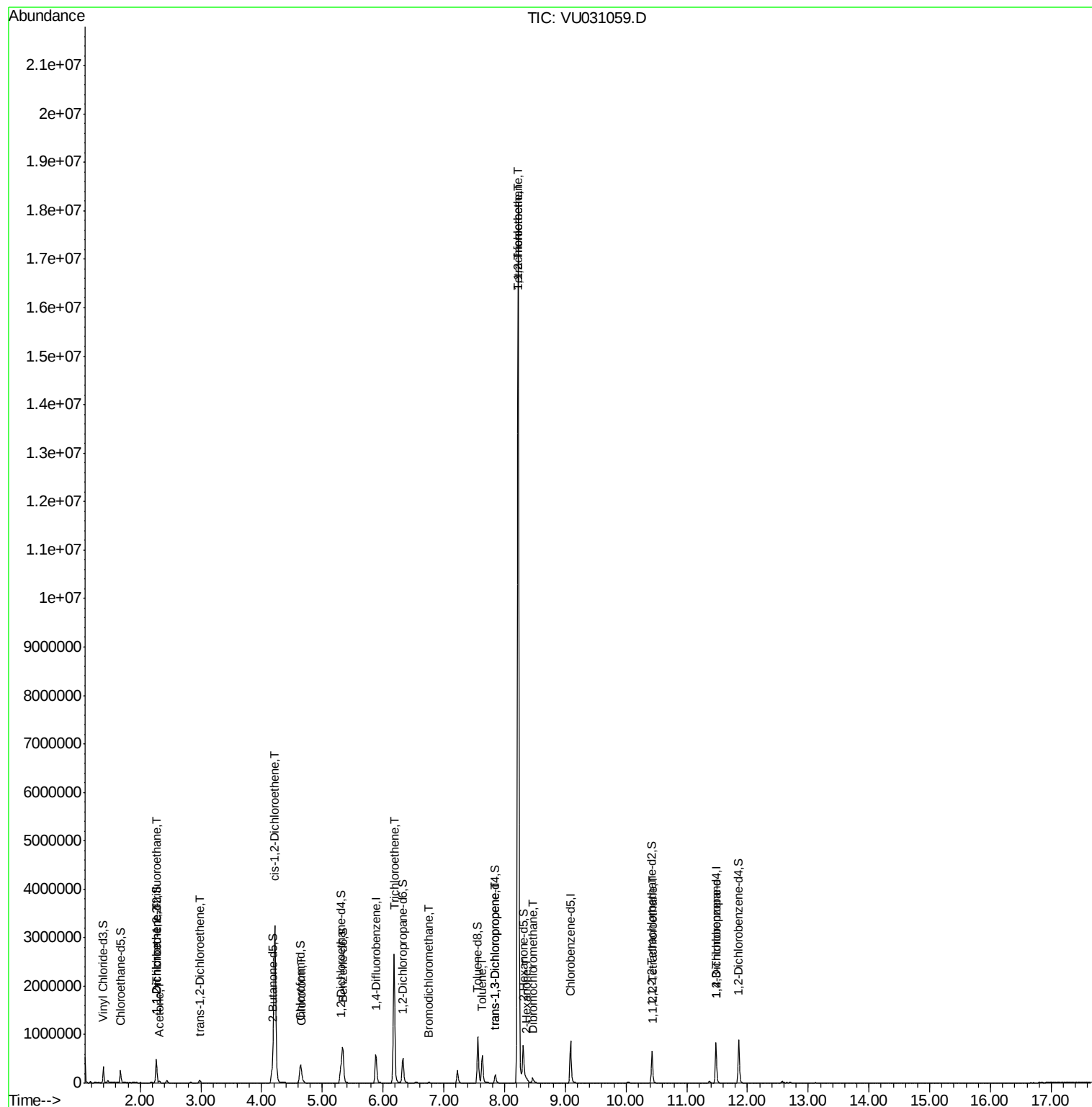
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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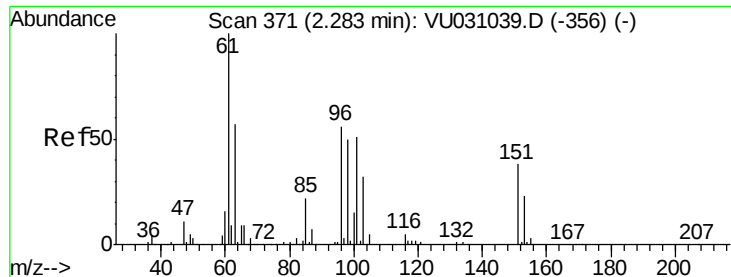
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.886 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.02 min

Lab File: VU031059.D

Acq: 11 Apr 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

DB722

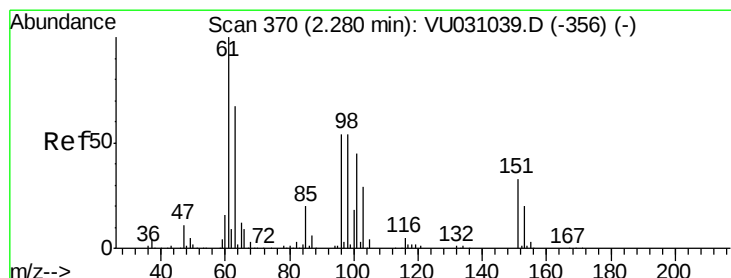
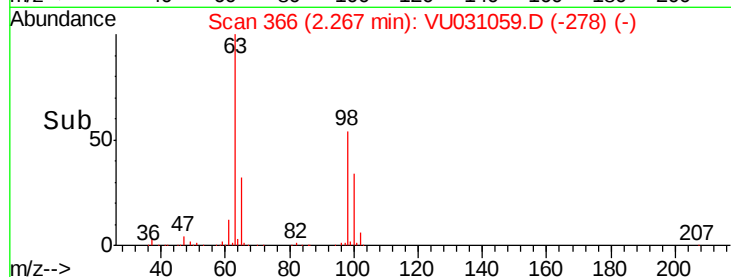
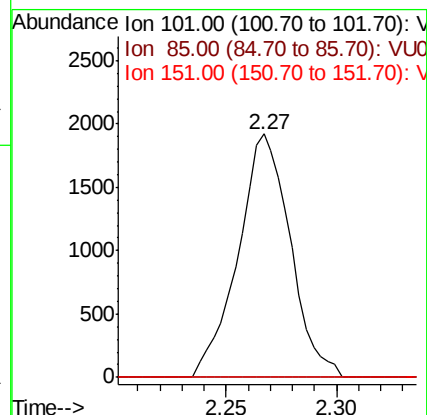
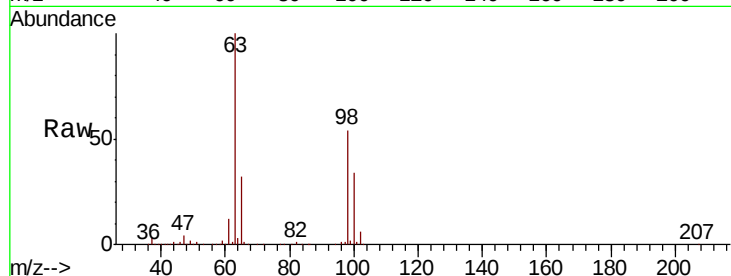
Tot Ion:101 Resp: 3162

Ion Ratio Lower Upper

101 100

85 0.0 36.8 55.2#

151 0.0 57.4 86.0#



#12

1,1-Dichloroethene

Concen: 0.945 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU031059.D

Acq: 11 Apr 2019 11:08

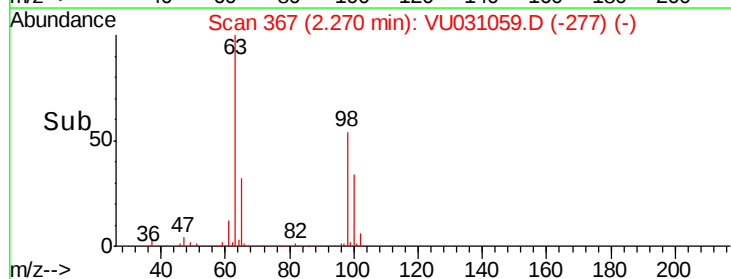
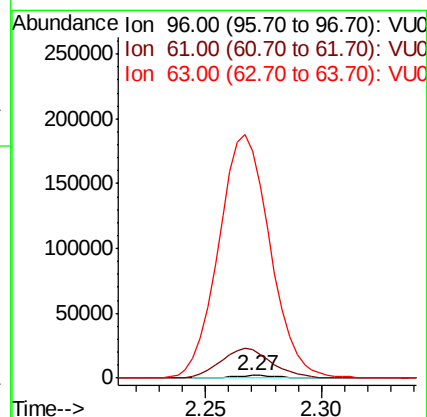
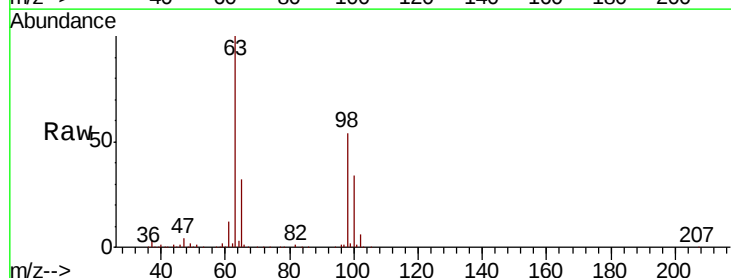
Tgt Ion: 96 Resp: 3254

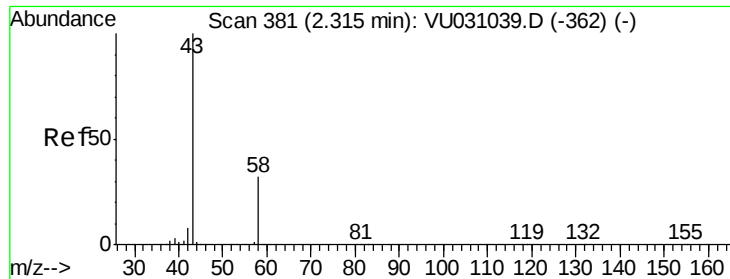
Ion Ratio Lower Upper

96 100

61 1048.3 132.0 245.2#

63 8389.3 90.9 168.9#





#13

Acetone

Concen: 9.136 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU031059.D

Acq: 11 Apr 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

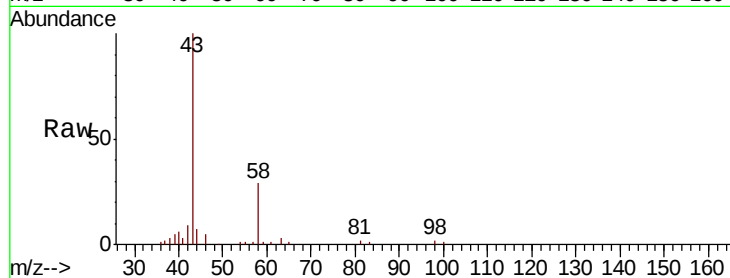
DB722

Tot Ion: 43 Resp: 32962

Ion Ratio Lower Upper

43 100

58 31.8 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU031039.D (-362) (-)

Ion 58.00 (57.70 to 58.70): VU031039.D (-362) (-)

2.32

20000

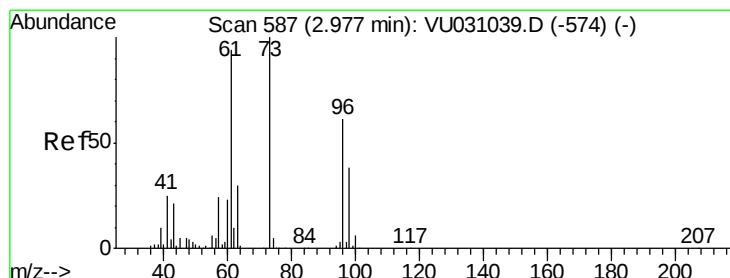
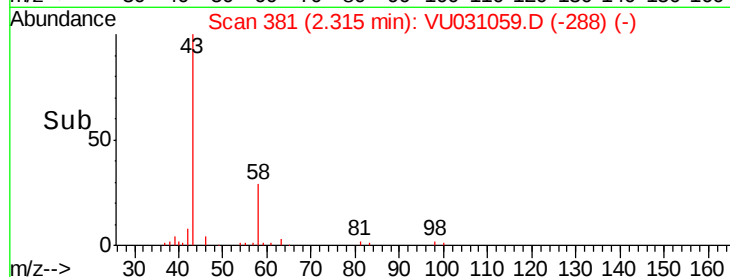
15000

10000

5000

0

Time--> 2.25 2.30 2.35



#17

trans-1,2-Dichloroethene

Concen: 6.241 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031059.D

Acq: 11 Apr 2019 11:08

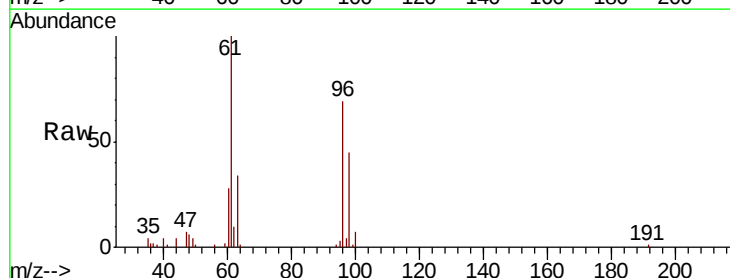
Tgt Ion: 96 Resp: 22828

Ion Ratio Lower Upper

96 100

61 144.8 109.5 203.3

98 65.3 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU031039.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU031039.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU031039.D (-574) (-)

2.98

20000

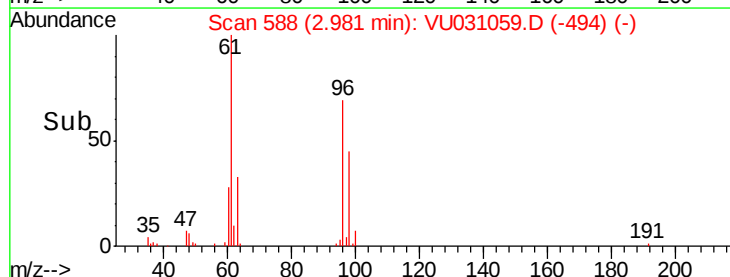
15000

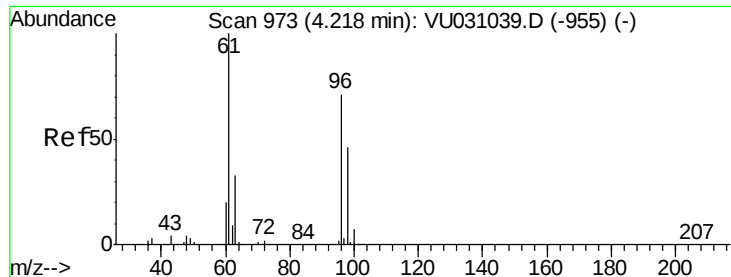
10000

5000

0

Time--> 2.90 2.95 3.00 3.05

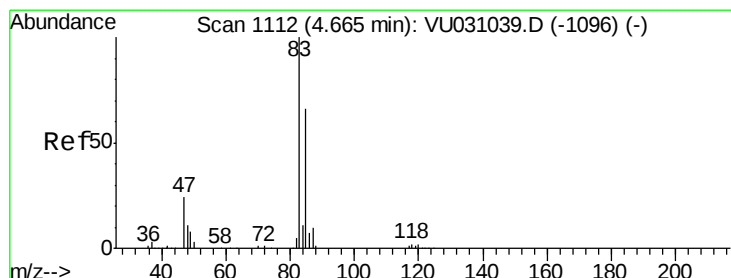
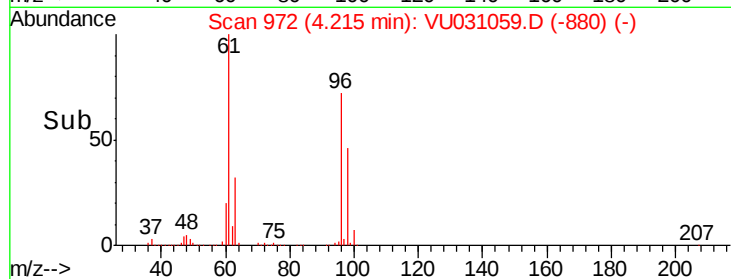
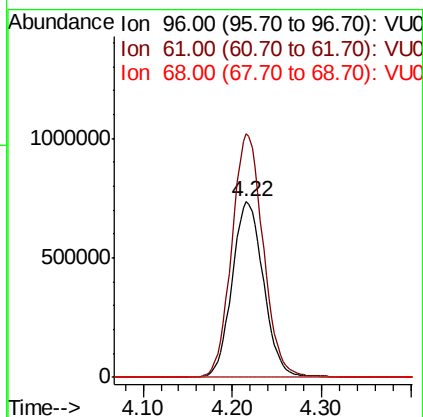
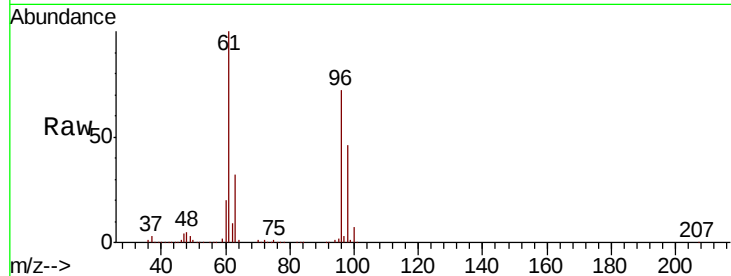




#20
 cis-1,2-Dichloroethene
 Concen: 445.628 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. -0.00 min
 Lab File: VU031059.D
 Acq: 11 Apr 2019 11:08

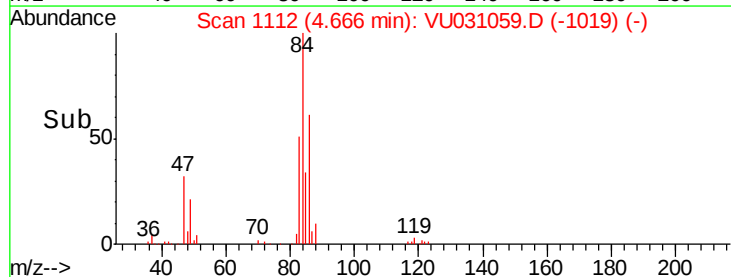
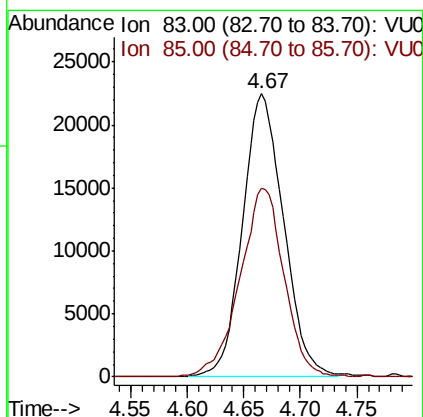
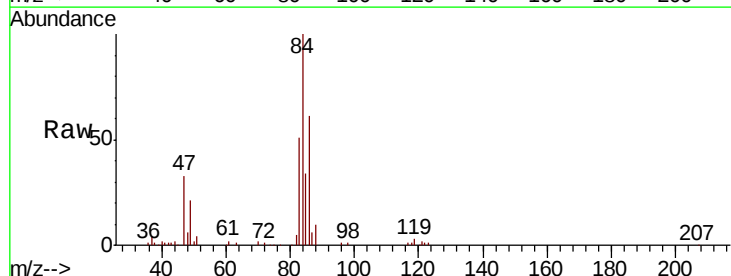
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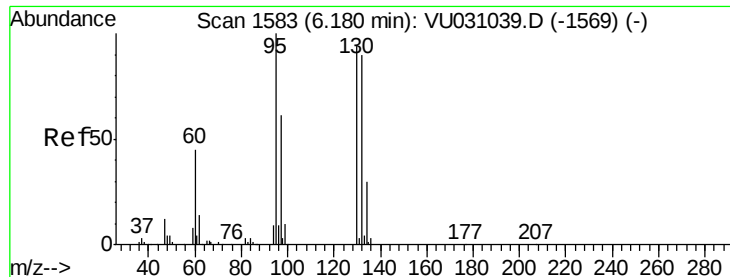
Tot Ion: 96 Resp: 1799784
 Ion Ratio Lower Upper
 96 100
 61 138.9 102.9 191.1
 68 0.0 0.0 0.0



#25
 Chloroform
 Concen: 7.483 ug/L
 RT: 4.67 min Scan# 1112
 Delta R.T. 0.00 min
 Lab File: VU031059.D
 Acq: 11 Apr 2019 11:08

Tgt Ion: 83 Resp: 56775
 Ion Ratio Lower Upper
 83 100
 85 66.8 45.8 85.0





#34

Trichloroethene

Concen: 244.272 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU031059.D

Acq: 11 Apr 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

DB722

Tot Ion: 95 Resp: 955858

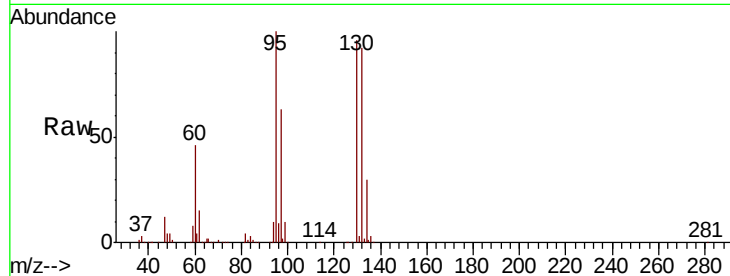
Ion Ratio Lower Upper

95 100

97 63.3 44.5 82.7

132 91.8 61.5 114.1

130 96.0 64.9 120.5



Abundance Ion 95.00 (94.70 to 95.70): VU031039.D (-1569) (-)

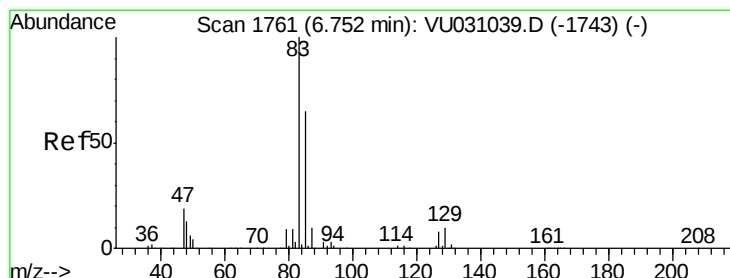
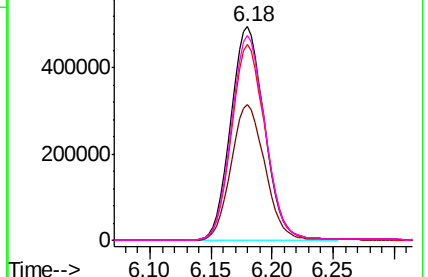
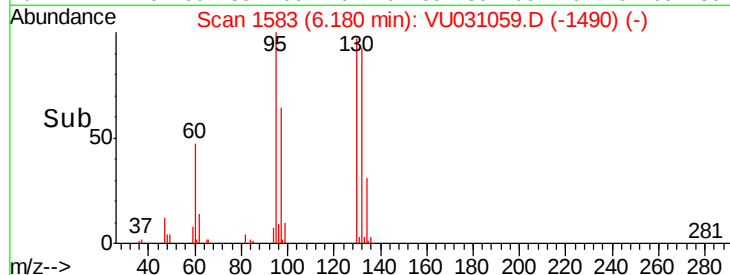
Ion 97.00 (96.70 to 97.70): VU031039.D (-1569) (-)

Ion 132.00 (131.70 to 132.70): VU031039.D (-1569) (-)

Ion 130.00 (129.70 to 130.70): VU031039.D (-1569) (-)

6.18

6.10 6.15 6.20 6.25



#38

Bromodichloromethane

Concen: 2.111 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU031059.D

Acq: 11 Apr 2019 11:08

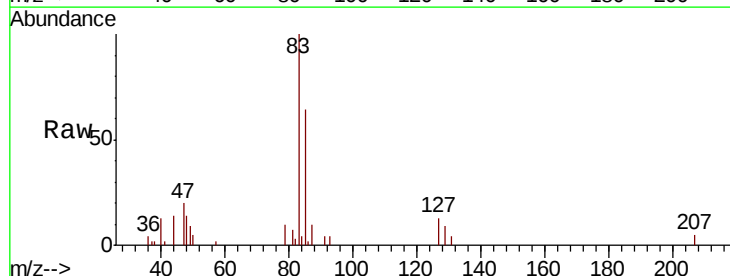
Tgt Ion: 83 Resp: 11503

Ion Ratio Lower Upper

83 100

85 64.1 46.5 86.3

127 12.7 6.6 10.0#



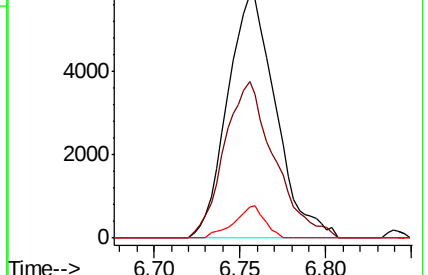
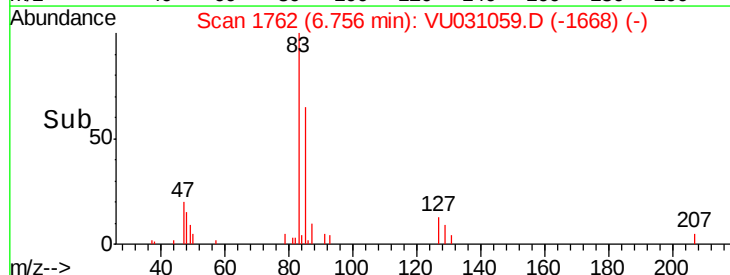
Abundance Ion 83.00 (82.70 to 83.70): VU031039.D (-1743) (-)

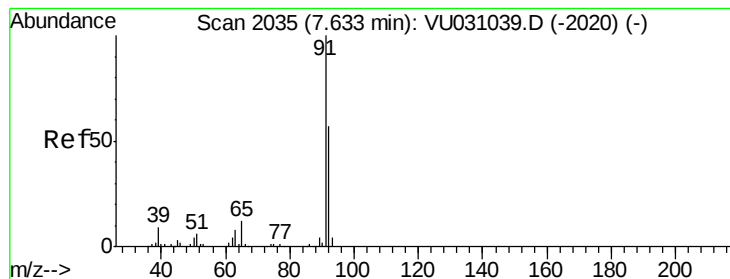
Ion 85.00 (84.70 to 85.70): VU031039.D (-1743) (-)

Ion 127.00 (126.70 to 127.70): VU031039.D (-1743) (-)

6.76

6.70 6.75 6.80





#42

Toluene

Concen: 25.808 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031059.D

Acq: 11 Apr 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

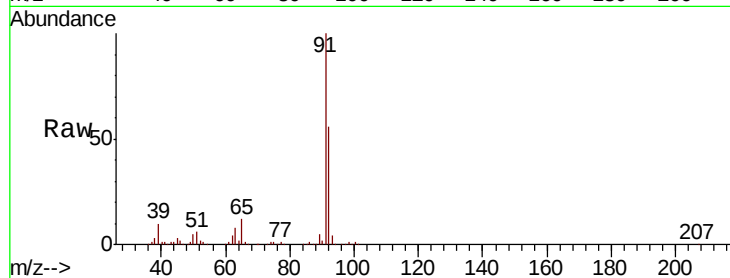
DB722

Tot Ion: 91 Resp: 420298

Ion Ratio Lower Upper

91 100

92 55.7 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU031039.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU031039.D (-2020) (-)

7.63

250000

200000

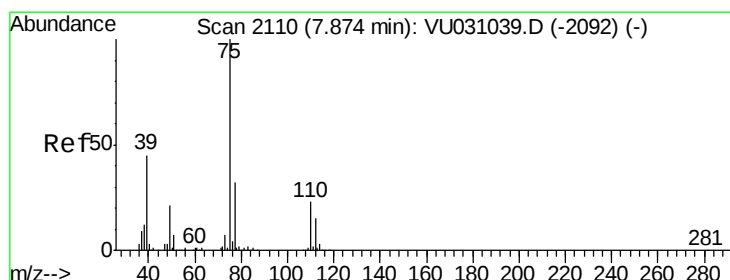
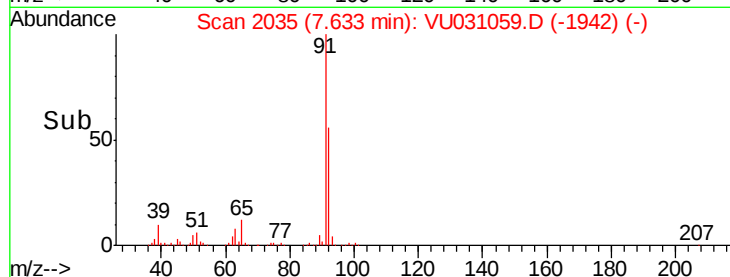
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.744 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU031059.D

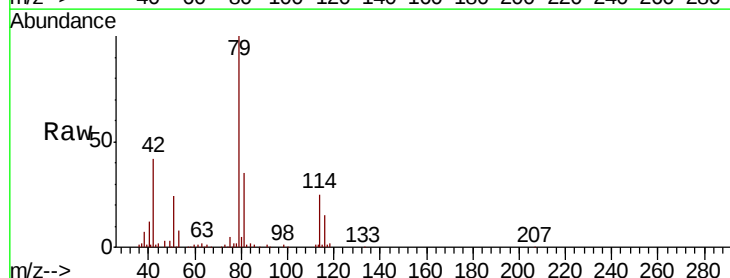
Acq: 11 Apr 2019 11:08

Tgt Ion: 75 Resp: 4216

Ion Ratio Lower Upper

75 100

77 45.4 21.6 40.0#



Abundance Ion 75.00 (74.70 to 75.70): VU031039.D (-2092) (-)

Ion 77.00 (76.70 to 77.70): VU031039.D (-2092) (-)

7.85

3000

2500

2000

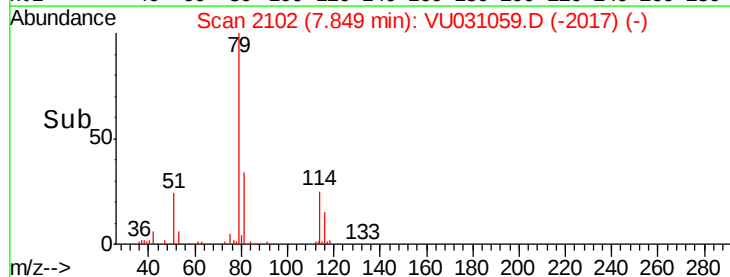
1500

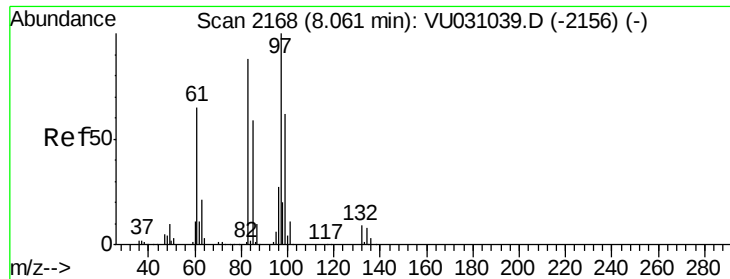
1000

500

0

Time-->

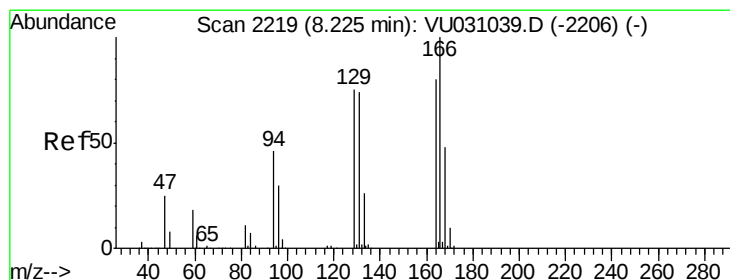
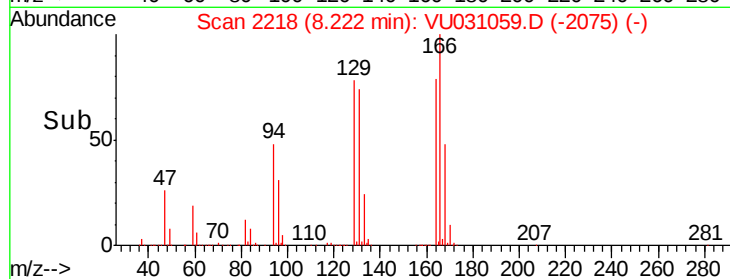
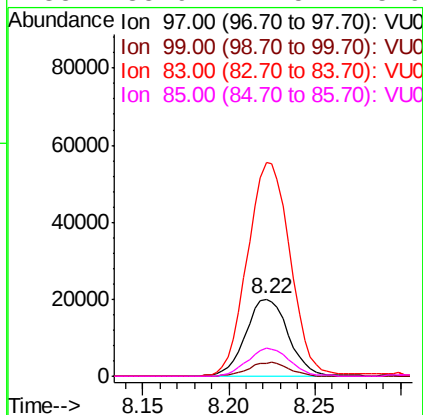
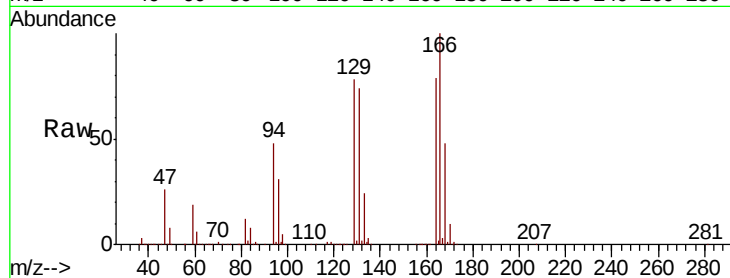




#45
 1,1,2-Trichloroethane
 Concen: 9.014 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.16 min
 Lab File: VU031059.D
 Acq: 11 Apr 2019 11:08

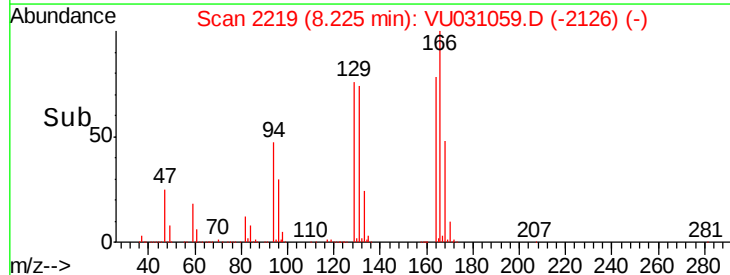
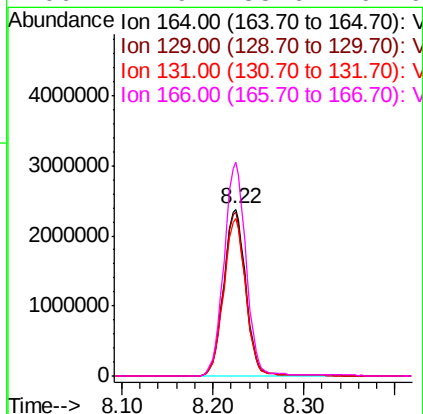
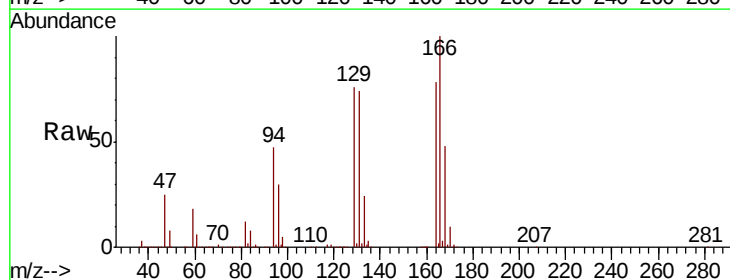
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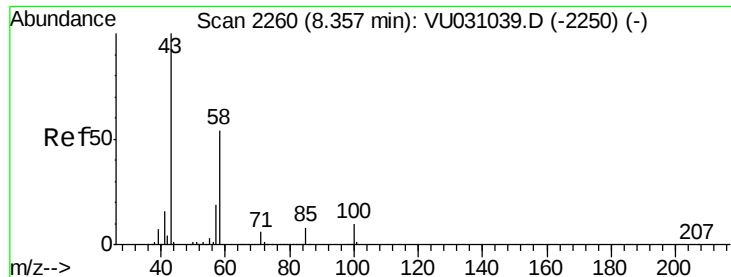
Tot Ion: 97 Resp: 34536
 Ion Ratio Lower Upper
 97 100
 99 17.3 44.0 81.8#
 83 277.4 65.3 121.3#
 85 35.9 42.5 78.9#



#46
 Tetrachloroethene
 Concen: 1420.000 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU031059.D
 Acq: 11 Apr 2019 11:08

Tgt Ion: 164 Resp: 4039808
 Ion Ratio Lower Upper
 164 100
 129 97.9 67.4 125.2
 131 94.2 65.9 122.5
 166 127.9 88.6 164.6

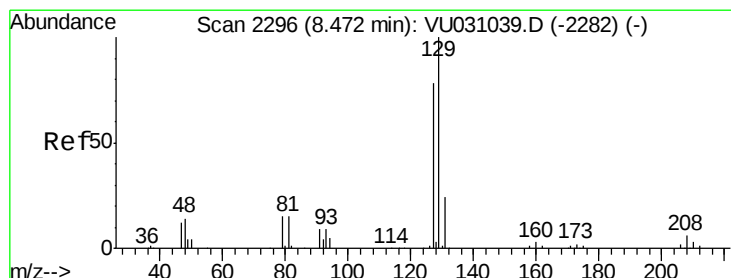
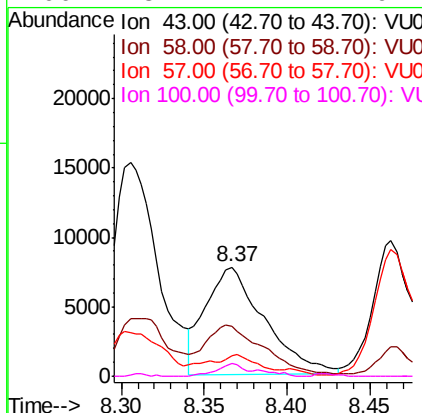
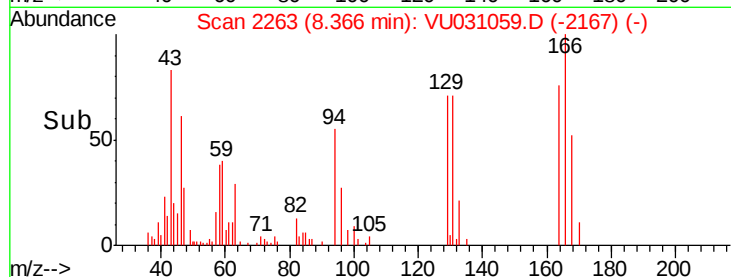
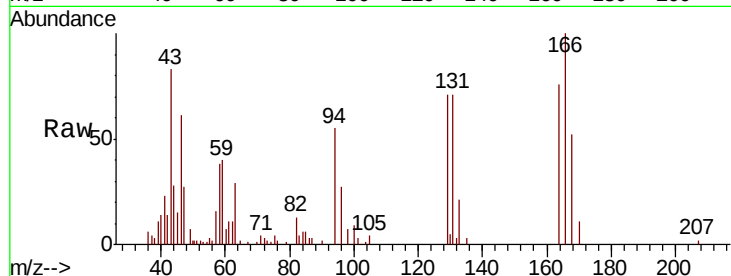




#48
2-Hexanone
Concen: 3.356 ug/L
RT: 8.37 min Scan# 2263
Delta R.T. 0.01 min
Lab File: VU031059.D
Acq: 11 Apr 2019 11:08

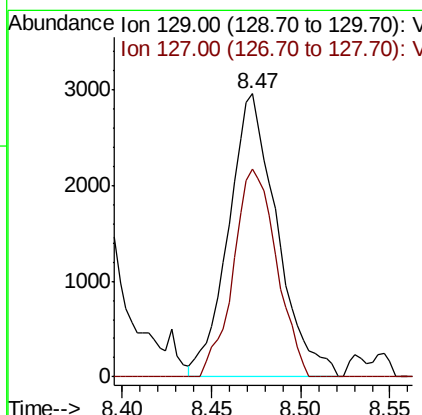
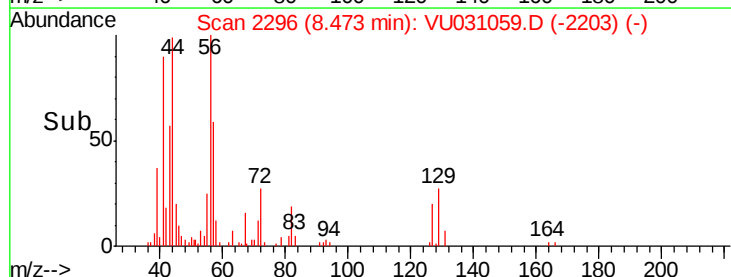
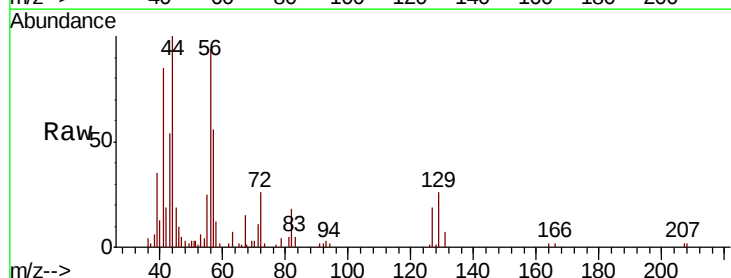
Instrument :
MSVOA_U
ClientSampleId :
DB722

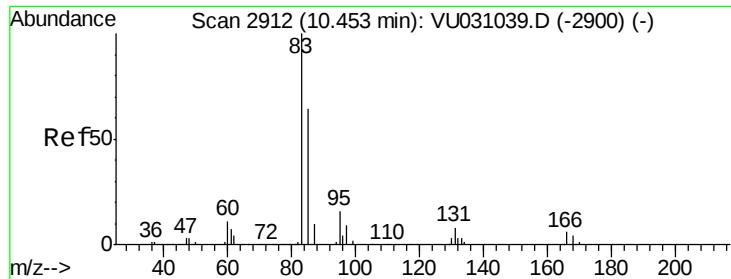
Tot Ion: 43 Resp: 19023
Ion Ratio Lower Upper
43 100
58 40.6 41.9 62.9#
57 6.7 14.3 21.5#
100 5.1 7.1 10.7#



#49
Dibromochloromethane
Concen: 1.378 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031059.D
Acq: 11 Apr 2019 11:08

Tgt Ion: 129 Resp: 5601
Ion Ratio Lower Upper
129 100
127 73.3 54.5 101.3





#58

1,1,2,2-Tetrachloroethane

Concen: 0.642 ug/L

RT: 10.45 min Scan# 2911

Delta R.T. -0.00 min

Lab File: VU031059.D

Acq: 11 Apr 2019 11:08

Instrument :

MSVOA_U

ClientSampleId :

DB722

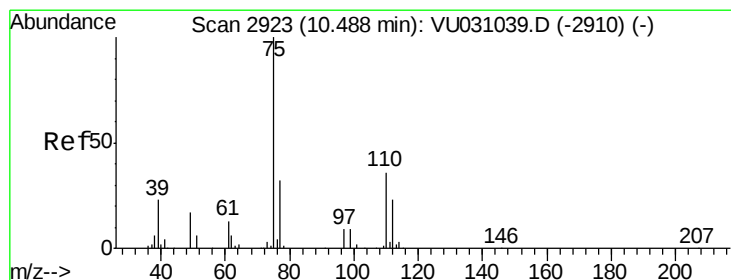
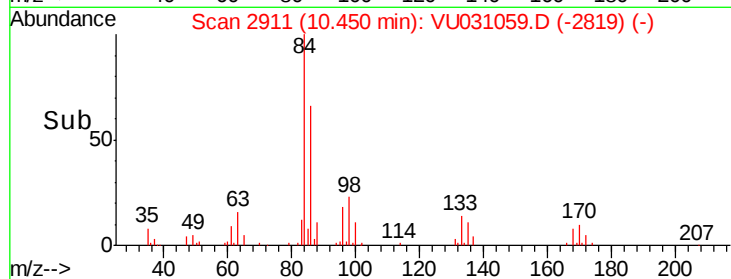
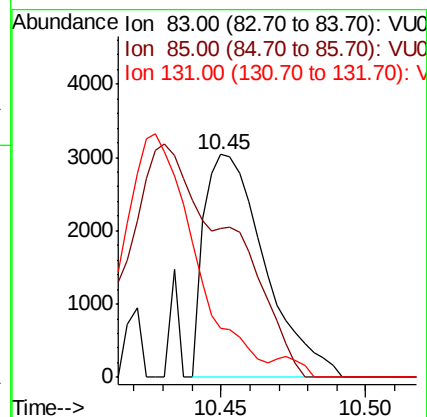
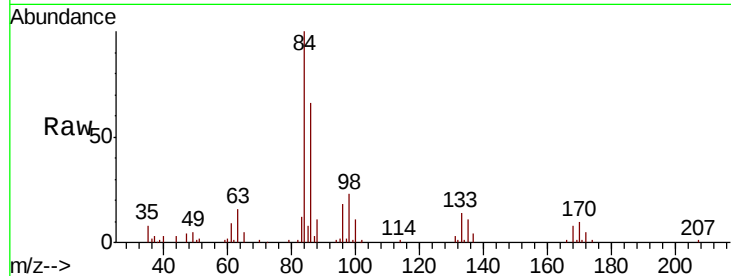
Tot Ion: 83 Resp: 4448

Ion Ratio Lower Upper

83 100

85 66.5 45.3 84.1

131 22.2 6.7 10.1#



#59

1,2,3-Trichloropropane

Concen: 4.833 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU031059.D

Acq: 11 Apr 2019 11:08

Tgt Ion: 75 Resp: 26150

Ion Ratio Lower Upper

75 100

77 40.8 26.1 39.1#

