

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\
 Data File : VU031033.D
 Acq On : 10 Apr 2019 23:46
 Operator : JC/SP
 Sample : K2299-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DB6X8

Quant Time: Apr 11 05:25:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Apr 11 05:17:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	560666	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	551680	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	253069	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	247276	49.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	98.82%
7) Chloroethane-d5	1.68	69	196866	51.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.66%
11) 1,1-Dichloroethene-d2	2.46	63	226	0.02	ug/L	0.19
Spiked Amount	50.000	Range	60 - 125	Recovery	=	0.04%#
21) 2-Butanone-d5	4.17	46	408726	103.04	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.04%
24) Chloroform-d	4.64	84	401284	52.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.98%
26) 1,2-Dichloroethane-d4	5.30	65	274561	52.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.26%
32) Benzene-d6	5.33	84	822509	51.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.14%
36) 1,2-Dichloropropane-d6	6.32	67	280062	50.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.48%
41) Toluene-d8	7.56	98	714052	50.02	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.04%
43) trans-1,3-Dichloropropene-	7.85	79	123202	48.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.90%
47) 2-Hexanone-d5	8.31	63	257197	101.96	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.96%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	382782	51.42	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.84%
64) 1,2-Dichlorobenzene-d4	11.85	152	273955	55.04	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	110.08%

Target Compounds

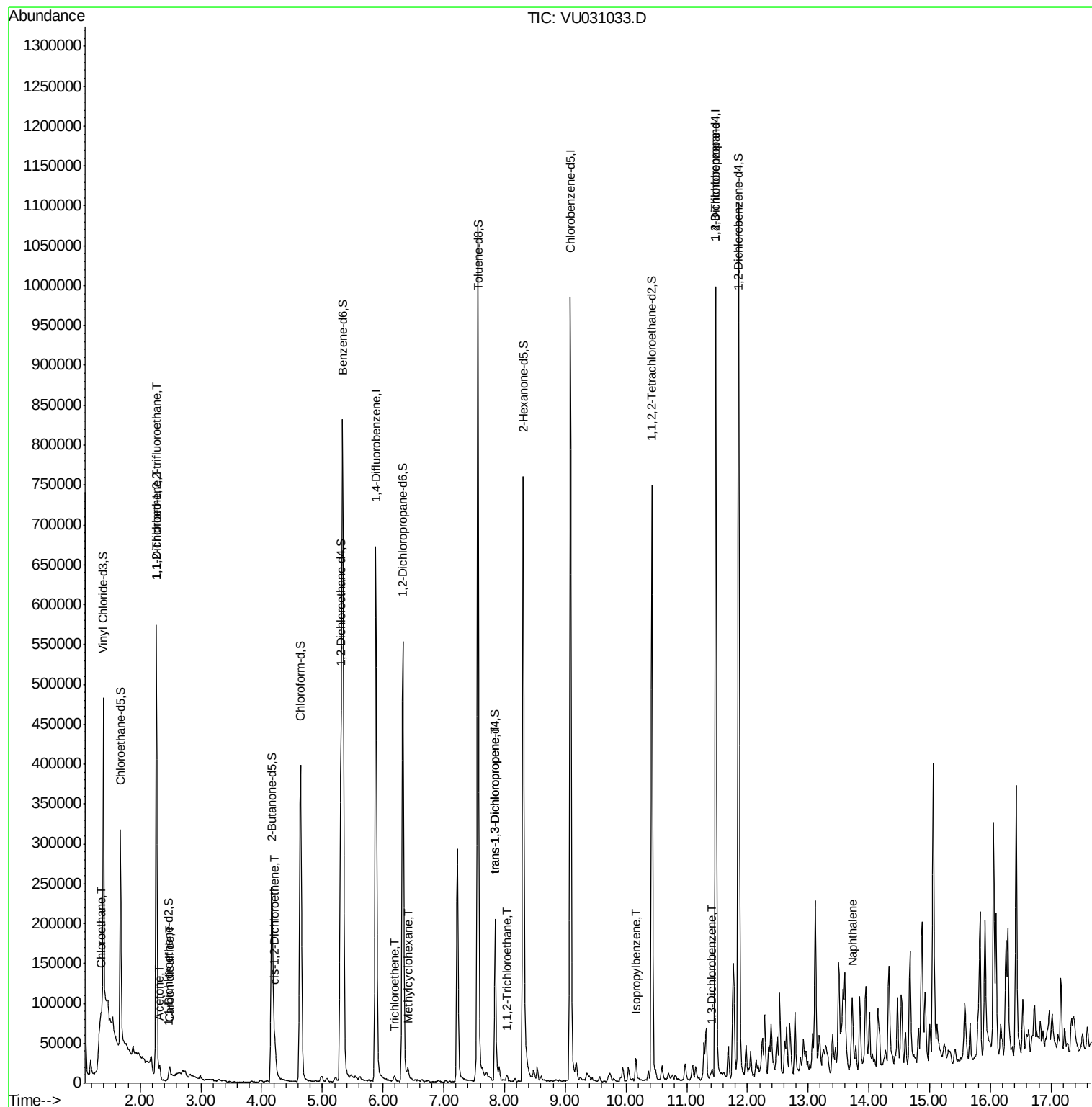
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.35	64	74903	21.297	ug/L #	51
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	3440	0.857	ug/L #	20
12) 1,1-Dichloroethene	2.27	96	2313	0.597	ug/L #	1
13) Acetone	2.32	43	15989	3.939	ug/L	99
14) Carbon disulfide	2.49	76	38802	3.223	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	14177	3.120	ug/L	94
34) Trichloroethene	6.19	95	2042	0.461	ug/L	83
35) Methylcyclohexane	6.41	83	6050	0.885	ug/L	96
44) trans-1,3-Dichloropropene	7.85	75	4642	0.724	ug/L #	80
45) 1,1,2-Trichloroethane	8.04	97	2821	0.651	ug/L #	17
56) Isopropylbenzene	10.16	105	17578	0.958	ug/L	97
59) 1,2,3-Trichloropropane	11.48	75	30949	5.055	ug/L	91
62) 1,3-Dichlorobenzene	11.42	146	3800	0.475	ug/L	98
69) Naphthalene	13.74	128	21008	1.304	ug/L #	72

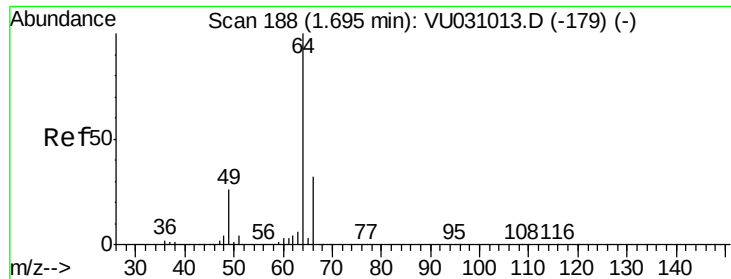
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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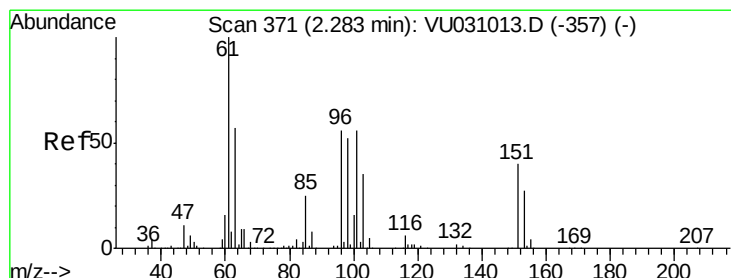
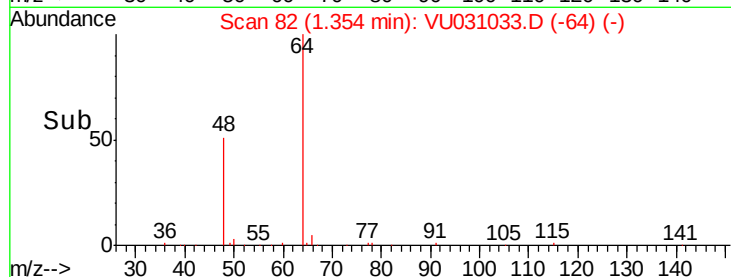
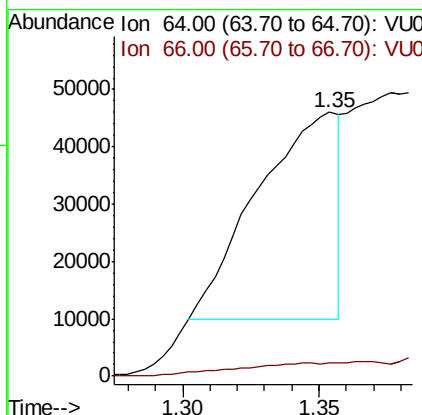
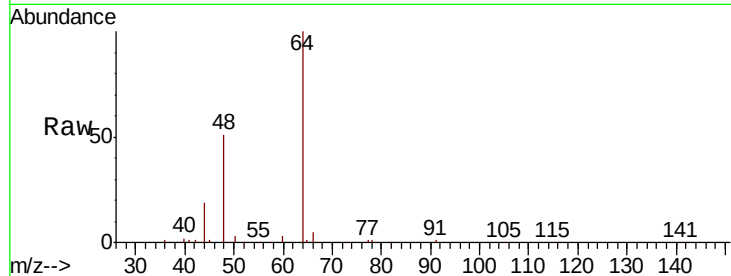




#8
Chloroethane
Concen: 21.297 ug/L
RT: 1.35 min Scan# 82
Delta R.T. -0.34 min
Lab File: VU031033.D
Acq: 10 Apr 2019 23:46

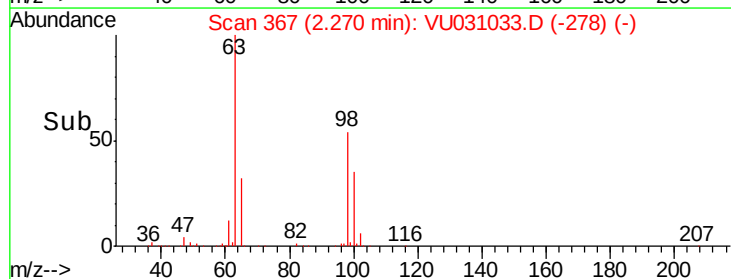
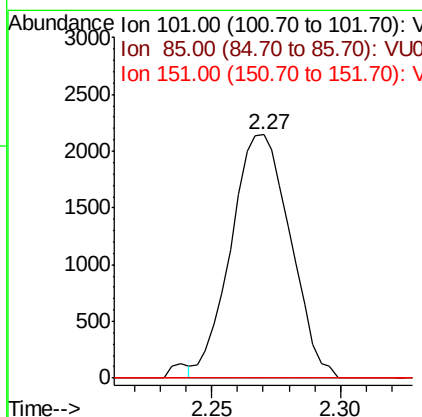
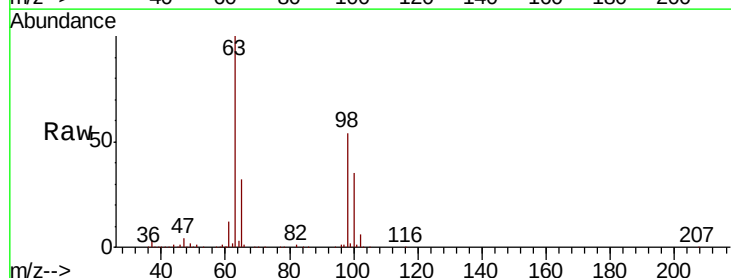
Instrument :
MSVOA_U
ClientSampled :
DB6X8

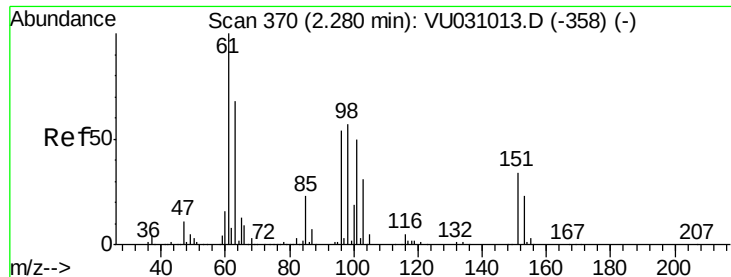
Tot Ion: 64 Resp: 74903
Ion Ratio Lower Upper
64 100
66 4.8 22.4 41.6#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.857 ug/L
RT: 2.27 min Scan# 367
Delta R.T. -0.01 min
Lab File: VU031033.D
Acq: 10 Apr 2019 23:46

Tgt Ion:101 Resp: 3440
Ion Ratio Lower Upper
101 100
85 0.0 36.8 55.2#
151 0.0 57.4 86.0#

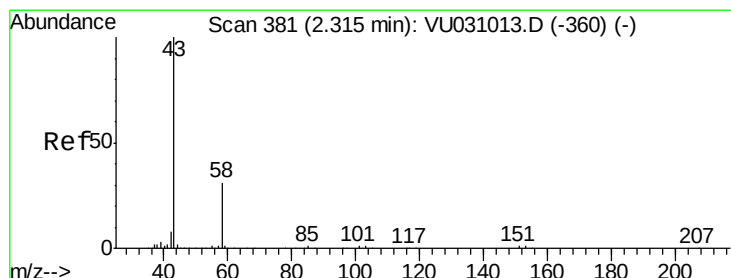
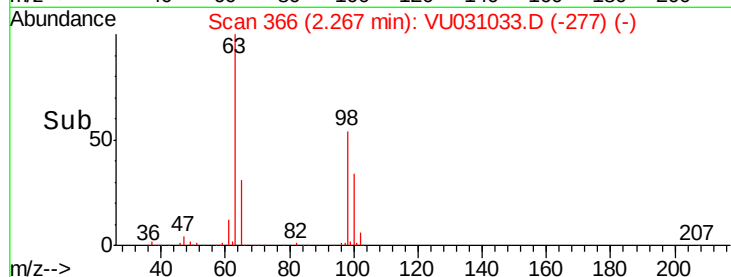
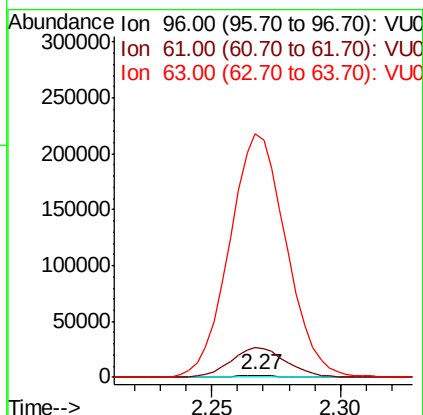
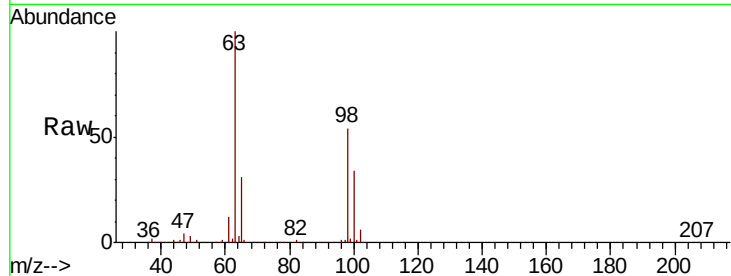




#12
 1,1-Dichloroethene
 Concen: 0.597 ug/L
 RT: 2.27 min Scan# 366
 Delta R.T. -0.01 min
 Lab File: VU031033.D
 Acq: 10 Apr 2019 23:46

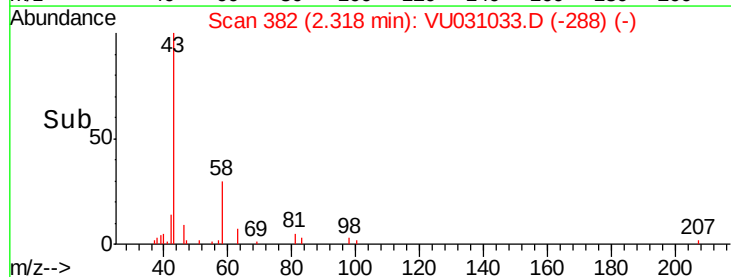
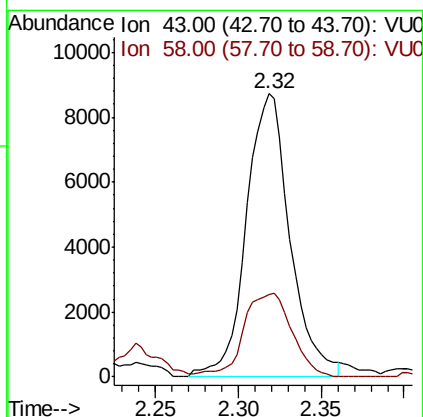
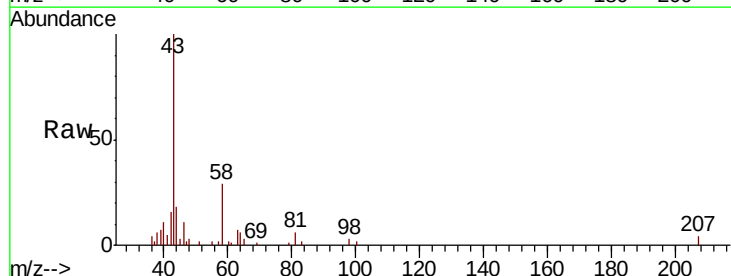
Instrument :
 MSVOA_U
 ClientSampleId :
 DB6X8

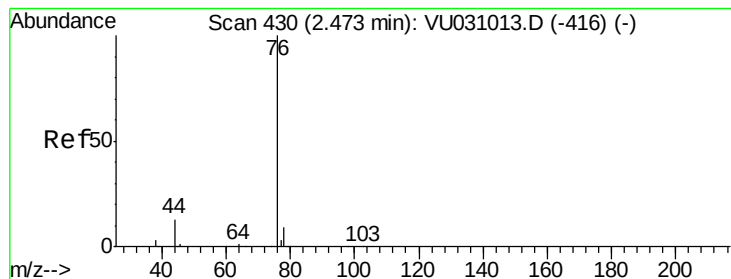
Tot Ion: 96 Resp: 2313
 Ion Ratio Lower Upper
 96 100
 61 1545.8 132.0 245.2#
 63 12833.9 90.9 168.9#



#13
 Acetone
 Concen: 3.939 ug/L
 RT: 2.32 min Scan# 382
 Delta R.T. 0.00 min
 Lab File: VU031033.D
 Acq: 10 Apr 2019 23:46

Tgt Ion: 43 Resp: 15989
 Ion Ratio Lower Upper
 43 100
 58 32.7 0.0 64.0





#14

Carbon disulfide

Concen: 3.223 ug/L

RT: 2.49 min Scan# 434

Delta R.T. 0.01 min

Lab File: VU031033.D

Acq: 10 Apr 2019 23:46

Instrument :

MSVOA_U

ClientSampleId :

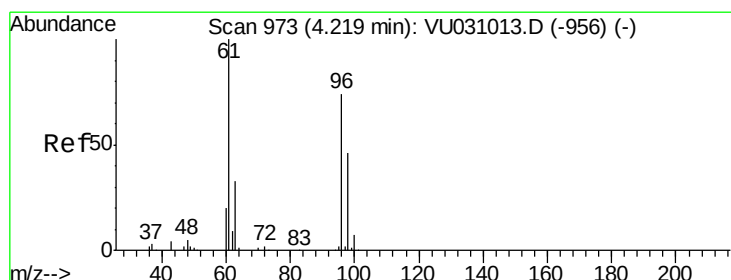
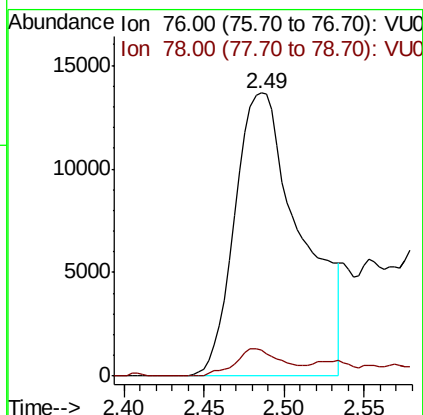
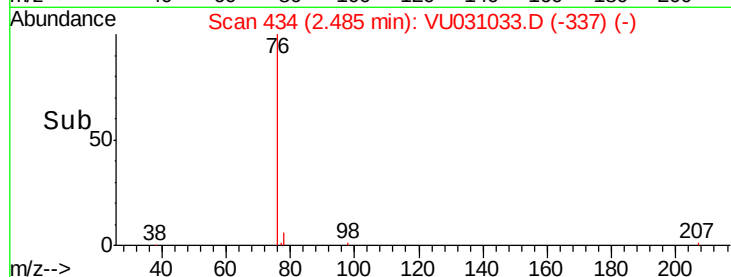
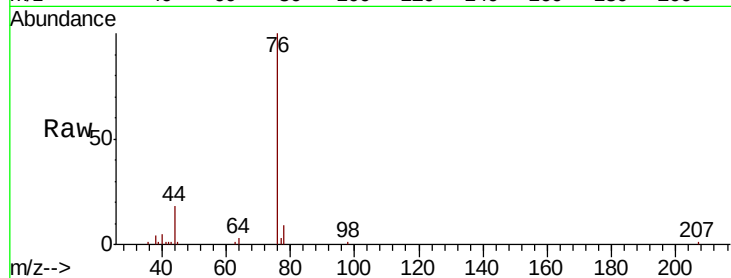
DB6X8

Tot Ion: 76 Resp: 38802

Ion Ratio Lower Upper

76 100

78 9.1 7.0 10.4



#20

cis-1,2-Dichloroethene

Concen: 3.120 ug/L

RT: 4.22 min Scan# 973

Delta R.T. -0.00 min

Lab File: VU031033.D

Acq: 10 Apr 2019 23:46

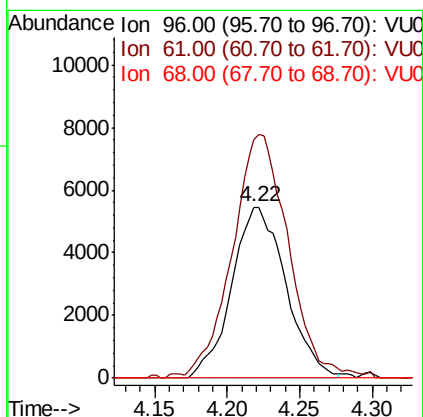
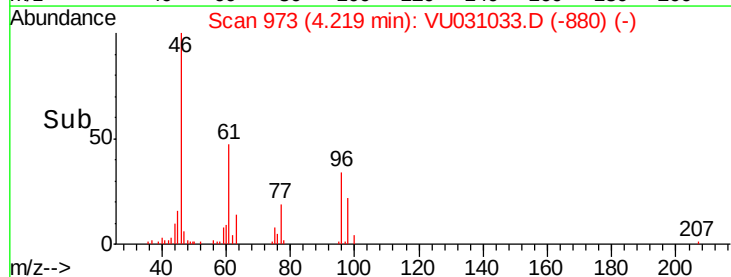
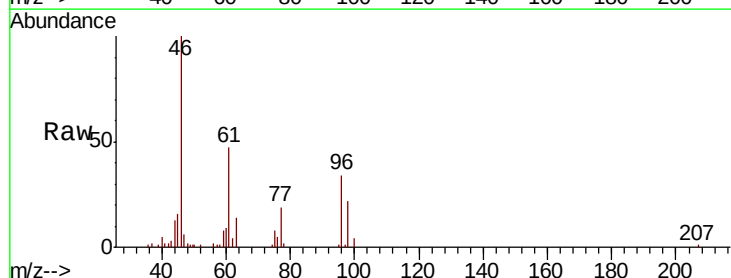
Tgt Ion: 96 Resp: 14177

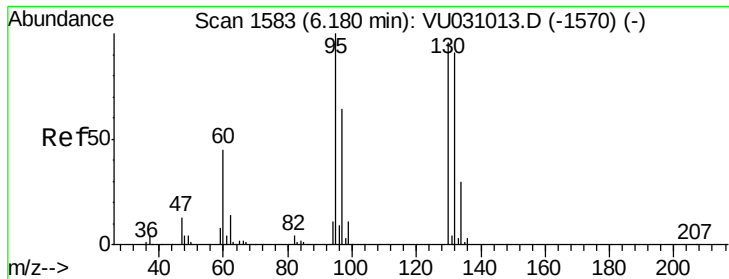
Ion Ratio Lower Upper

96 100

61 139.1 102.9 191.1

68 0.0 0.0 0.0





#34

Trichloroethene

Concen: 0.461 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU031033.D

Acq: 10 Apr 2019 23:46

Instrument :

MSVOA_U

ClientSampleId :

DB6X8

Tot Ion: 95 Resp: 2042

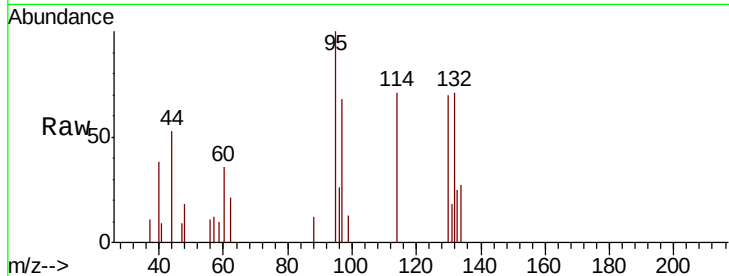
Ion Ratio Lower Upper

95 100

97 68.1 44.5 82.7

132 71.5 61.5 114.1

130 70.2 64.9 120.5

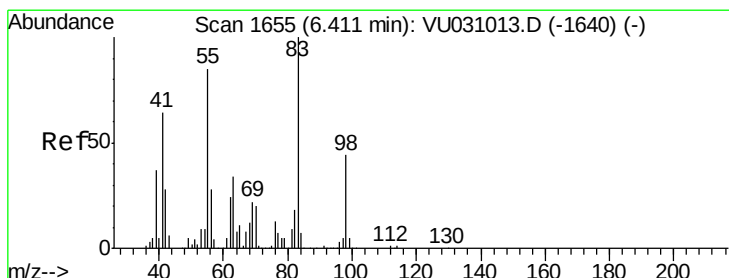
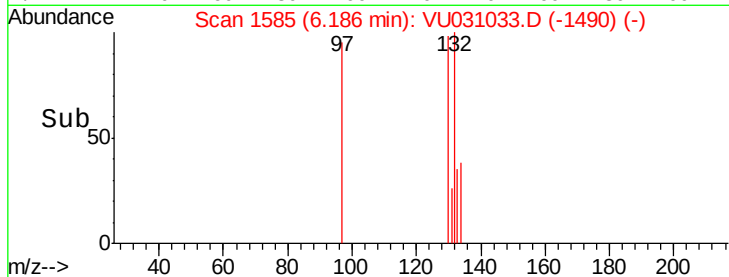
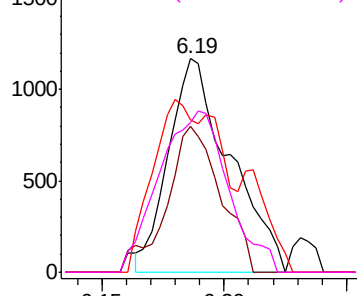


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 0.885 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU031033.D

Acq: 10 Apr 2019 23:46

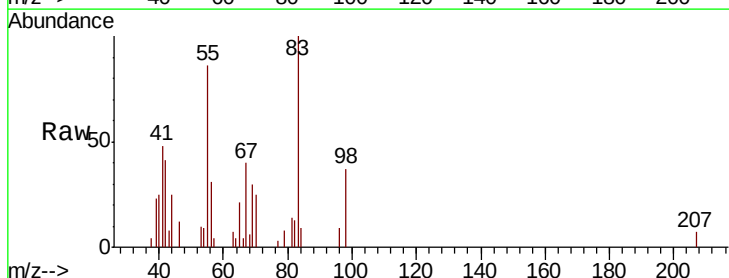
Tgt Ion: 83 Resp: 6050

Ion Ratio Lower Upper

83 100

55 88.5 71.6 107.4

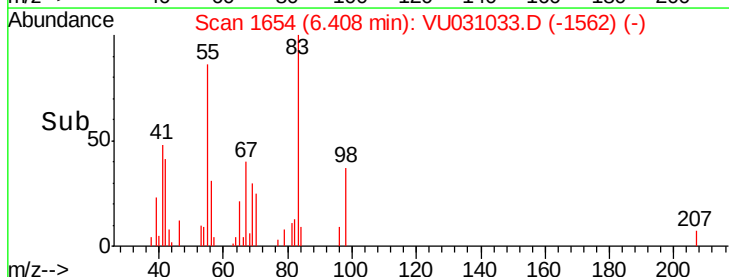
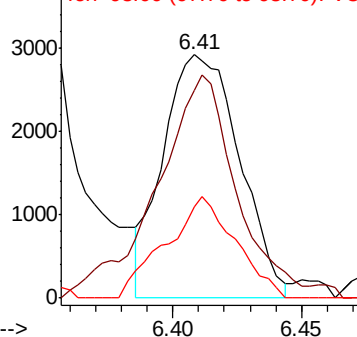
98 37.8 35.4 53.0

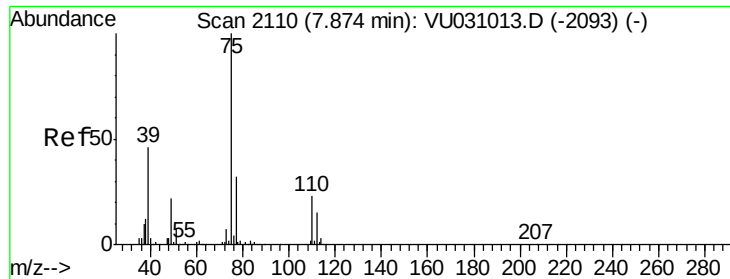


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#44

trans-1,3-Dichloropropene

Concen: 0.724 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU031033.D

Acq: 10 Apr 2019 23:46

Instrument :

MSVOA_U

ClientSampleId :

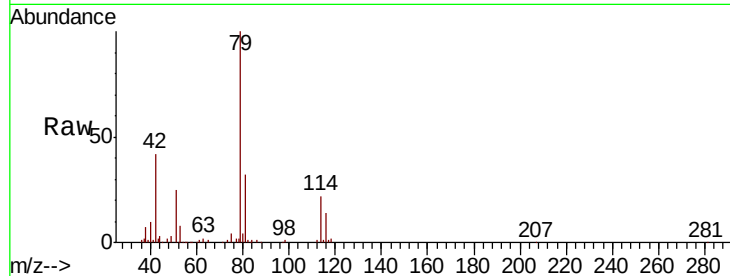
DB6X8

Tot Ion: 75 Resp: 4642

Ion Ratio Lower Upper

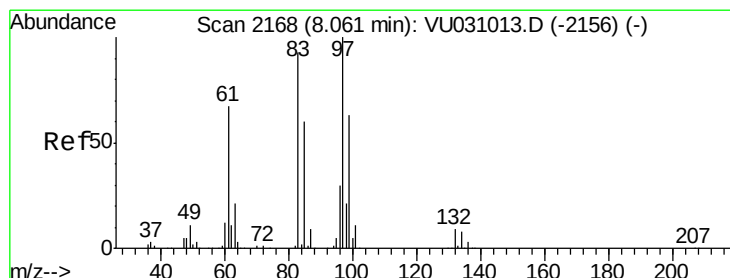
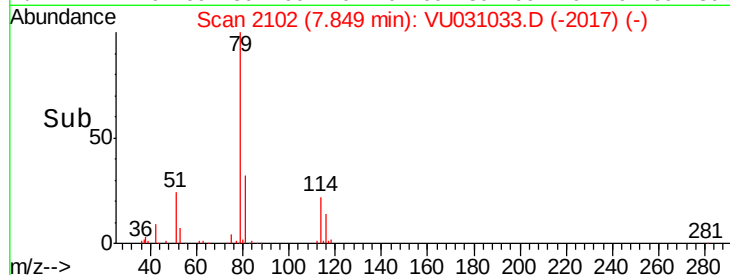
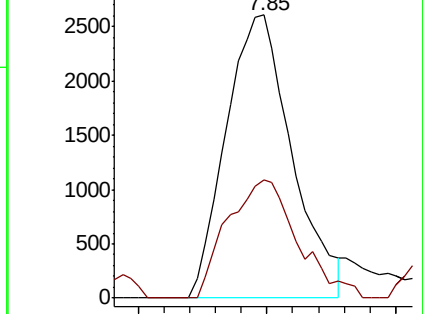
75 100

77 41.9 21.6 40.0#



Abundance Ion 75.00 (74.70 to 75.70): VU031013.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU031013.D (-2093) (-)



#45

1,1,2-Trichloroethane

Concen: 0.651 ug/L

RT: 8.04 min Scan# 2162

Delta R.T. -0.02 min

Lab File: VU031033.D

Acq: 10 Apr 2019 23:46

Tgt Ion: 97 Resp: 2821

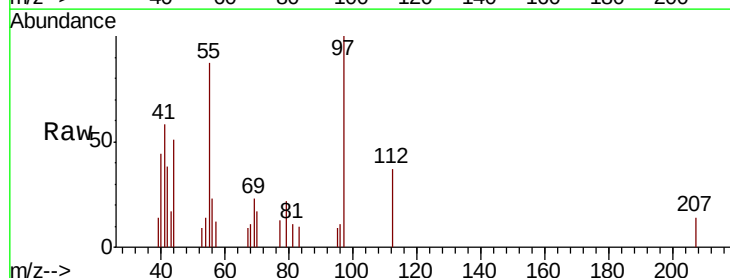
Ion Ratio Lower Upper

97 100

99 0.0 44.0 81.8#

83 9.5 65.3 121.3#

85 0.0 42.5 78.9#

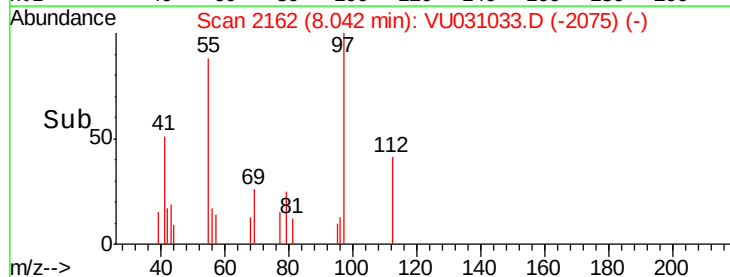
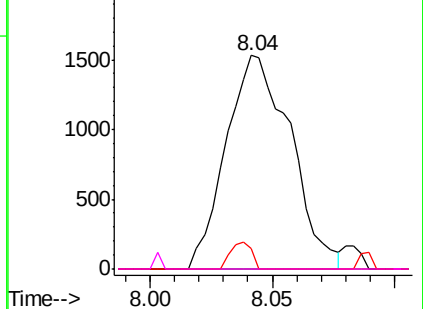


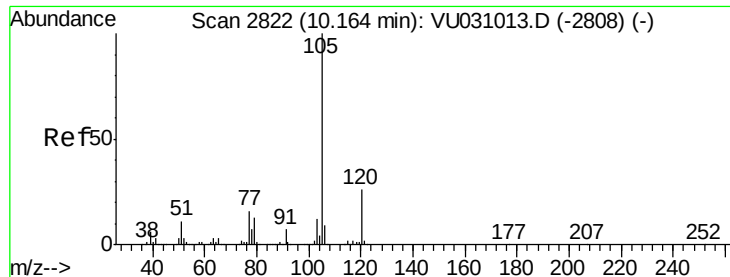
Abundance Ion 97.00 (96.70 to 97.70): VU031013.D (-2156) (-)

Ion 99.00 (98.70 to 99.70): VU031013.D (-2156) (-)

Ion 83.00 (82.70 to 83.70): VU031013.D (-2156) (-)

Ion 85.00 (84.70 to 85.70): VU031013.D (-2156) (-)





#56

Isopropylbenzene

Concen: 0.958 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031033.D

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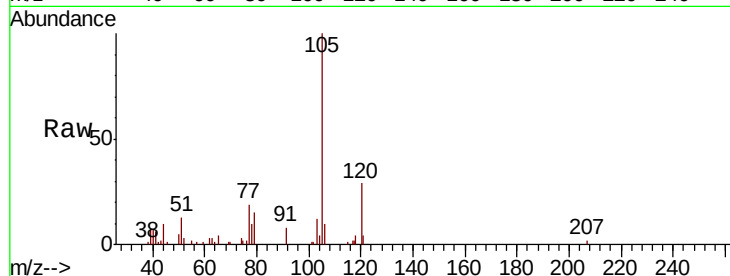
Tot Ion:105 Resp: 17578

Ion Ratio Lower Upper

105 100

120 25.9 20.4 30.6

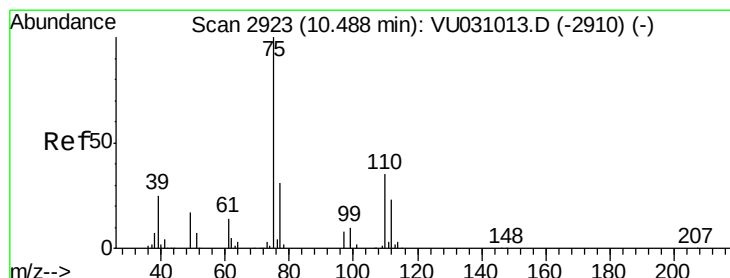
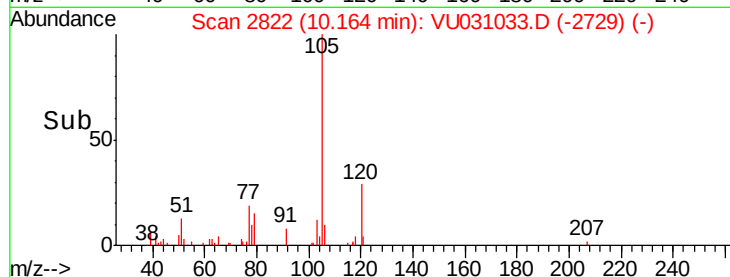
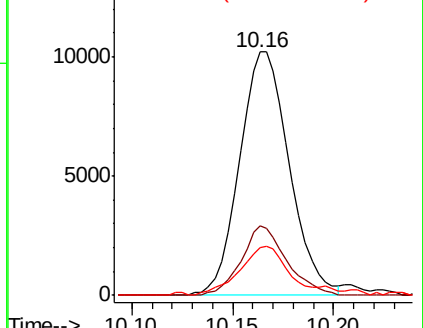
77 19.2 13.4 20.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU



#59

1,2,3-Trichloropropane

Concen: 5.055 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU031033.D

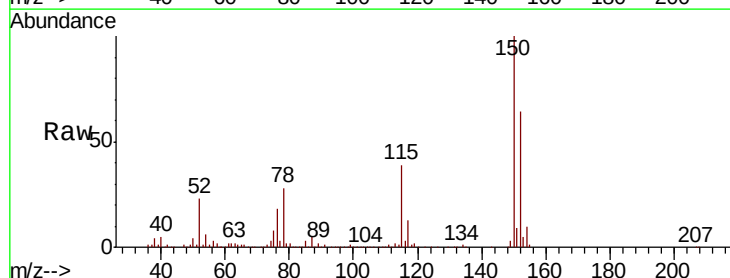
Acq: 10 Apr 2019 23:46

Tgt Ion: 75 Resp: 30949

Ion Ratio Lower Upper

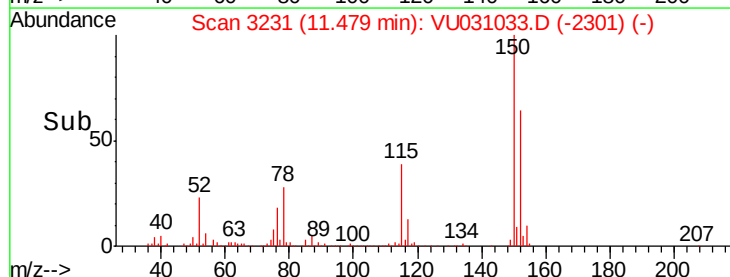
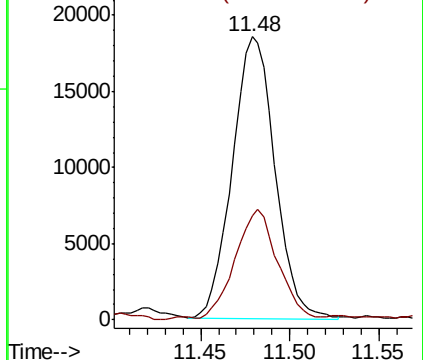
75 100

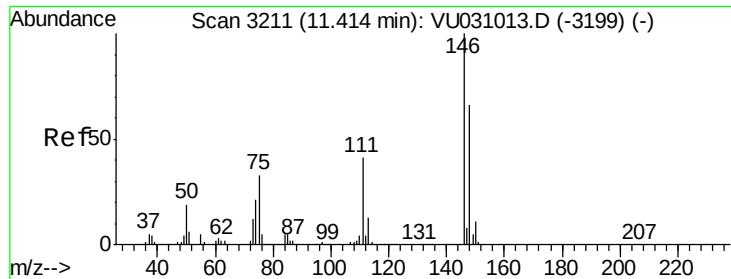
77 37.4 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU





#62

1,3-Dichlorobenzene

Concen: 0.475 ug/L

RT: 11.42 min Scan# 3213

Delta R.T. 0.01 min

Lab File: VU031033.D

Acq: 10 Apr 2019 23:46

Instrument :

MSVOA_U

ClientSampled :

DB6X8

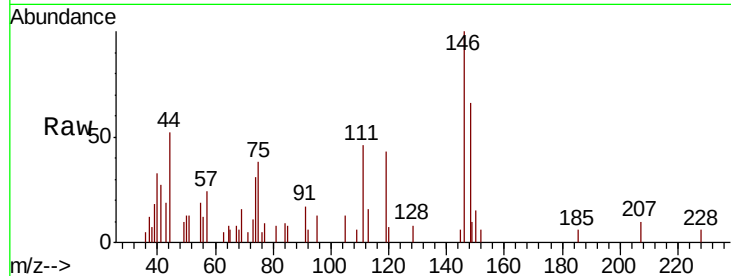
Tot Ion:146 Resp: 3800

Ion Ratio Lower Upper

146 100

111 45.9 30.9 57.5

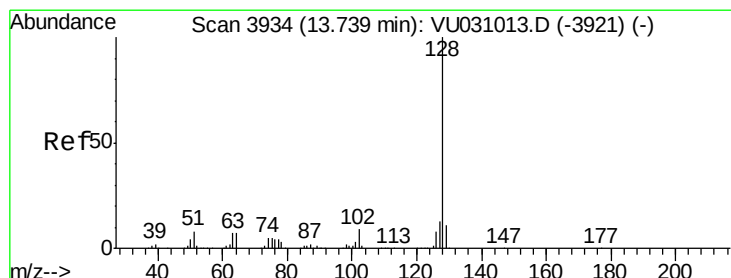
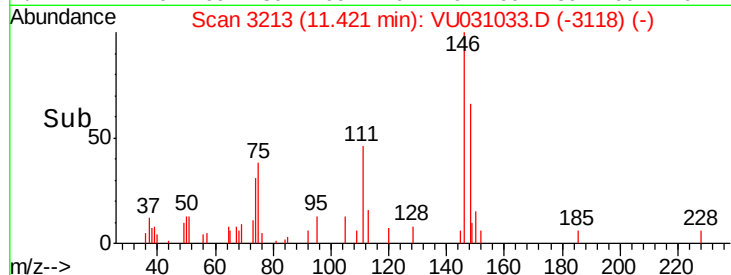
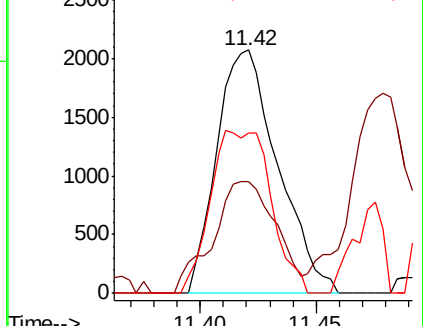
148 65.7 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#69

Naphthalene

Concen: 1.304 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU031033.D

Acq: 10 Apr 2019 23:46

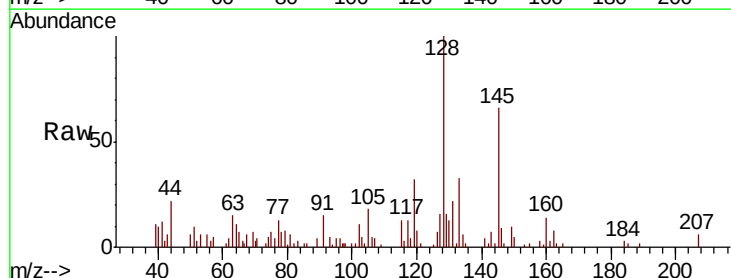
Tgt Ion:128 Resp: 21008

Ion Ratio Lower Upper

128 100

127 4.3 10.4 15.6#

129 23.7 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

