

Data File : VU032520.D
Acq On : 07 Jun 2019 00:58
Operator : JC/SP
Sample : K3215-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
DB8J1

Quant Time: Jun 07 07:05:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jun 07 07:01:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	202689	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	189104	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	97053	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	38752	29.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	58.94%#
7) Chloroethane-d5	1.68	69	36283	34.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	68.66%#
11) 1,1-Dichloroethene-d2	2.27	63	65600	25.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	50.96%#
21) 2-Butanone-d5	4.17	46	104338	94.81	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.81%
24) Chloroform-d	4.64	84	102123	41.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.28%
26) 1,2-Dichloroethane-d4	5.30	65	69382	44.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.82%
32) Benzene-d6	5.33	84	206830	42.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.26%
36) 1,2-Dichloropropane-d6	6.32	67	69173	44.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.88%
41) Toluene-d8	7.56	98	193115	41.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.98%
43) trans-1,3-Dichloropropene-	7.85	79	30290	41.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.24%
47) 2-Hexanone-d5	8.31	63	71506	95.76	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.76%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	104238	46.73	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.46%
64) 1,2-Dichlorobenzene-d4	11.85	152	89046	47.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

					Qvalue	
12) 1,1-Dichloroethene	2.27	96	1161	0.965	ug/L #	1
13) Acetone	2.32	43	1674	1.474	ug/L	92
17) trans-1,2-Dichloroethene	2.98	96	9070	6.959	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	256235	173.721	ug/L	97
33) Benzene	5.39	78	50387	9.483	ug/L	100
34) Trichloroethene	6.18	95	204826	141.696	ug/L	99
37) 1,2-Dichloropropane	6.32	63	7593	5.391	ug/L #	88
39) cis-1,3-Dichloropropene	7.22	75	1924	0.866	ug/L #	44
40) 4-Methyl-2-pentanone	7.46	43	3314	1.463	ug/L #	93
42) Toluene	7.64	91	3170	0.545	ug/L	94
44) trans-1,3-Dichloropropene	7.85	75	1477	0.749	ug/L	98
45) 1,1,2-Trichloroethane	8.22	97	1033	0.776	ug/L #	7
46) Tetrachloroethene	8.22	164	129124	108.154	ug/L	99
48) 2-Hexanone	8.36	43	2767	1.487	ug/L #	72
51) Chlorobenzene	9.11	112	161759	43.148	ug/L	100
52) Ethylbenzene	9.25	91	8828	1.361	ug/L	96
53) m,p-Xylene	9.38	106	1230	0.499	ug/L	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Quantitation Report (Not Reviewed)

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QLast Update : Fri Jun 07 07:01:53 2019
Response via : Initial Calibration

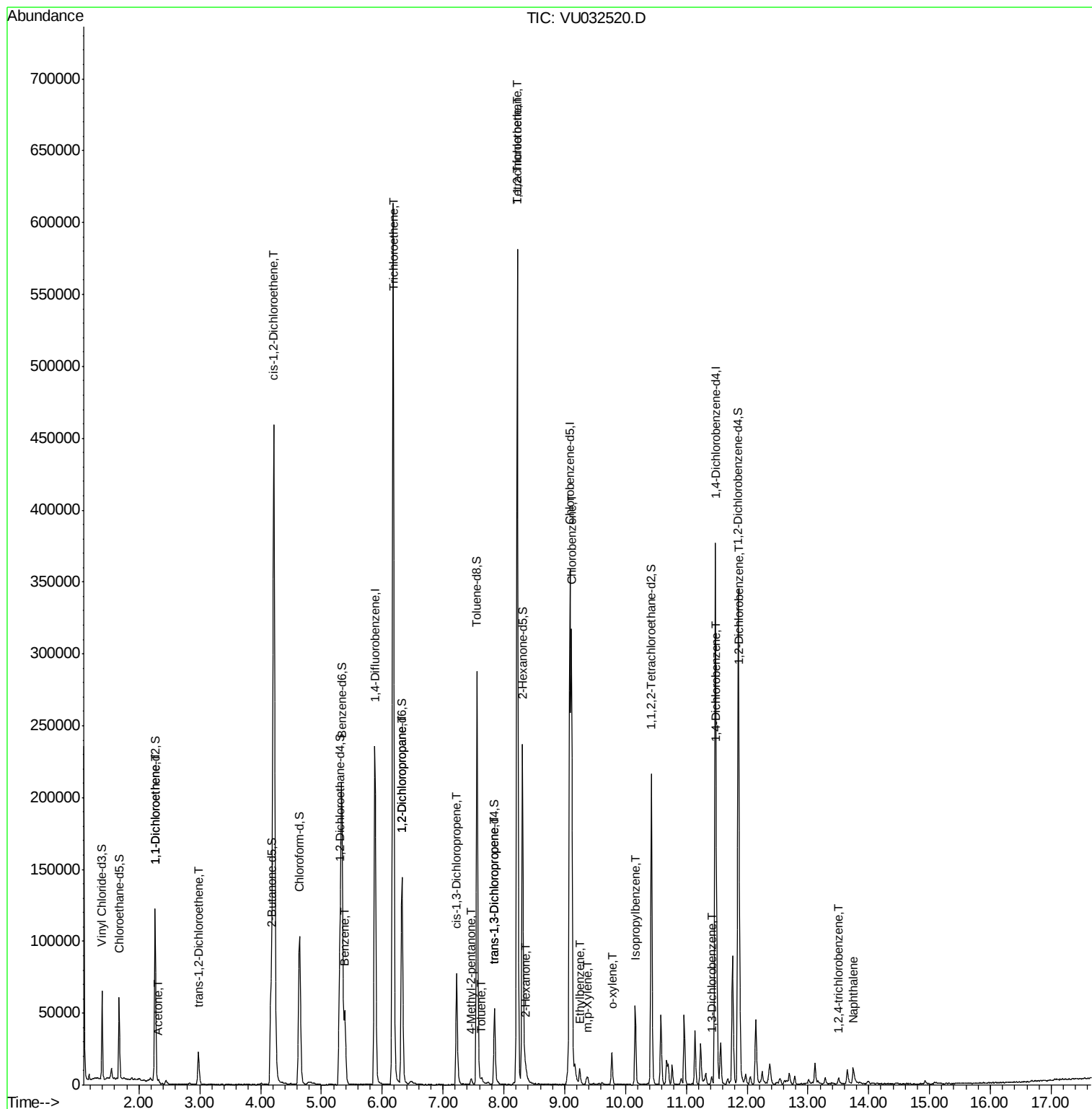
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	9.77	106	6224	2.542	ug/L	96
56) Isopropylbenzene	10.16	105	37332	5.781	ug/L	100
62) 1,3-Dichlorobenzene	11.42	146	2033	0.692	ug/L	90
63) 1,4-Dichlorobenzene	11.50	146	28997	9.660	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	27697	9.330	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	1706	0.881	ug/L	97
69) Naphthalene	13.75	128	15300	2.506	ug/L #	74

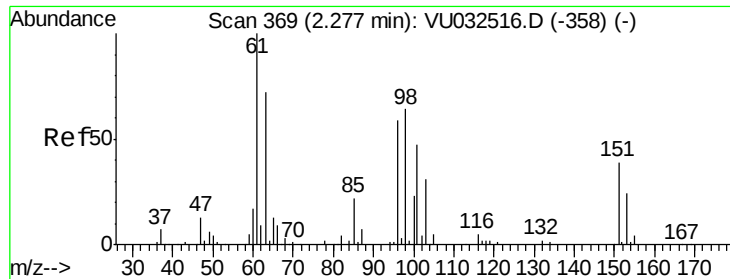
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 0.965 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

Instrument :

MSVOA_U

ClientSampleId :

DB8J1

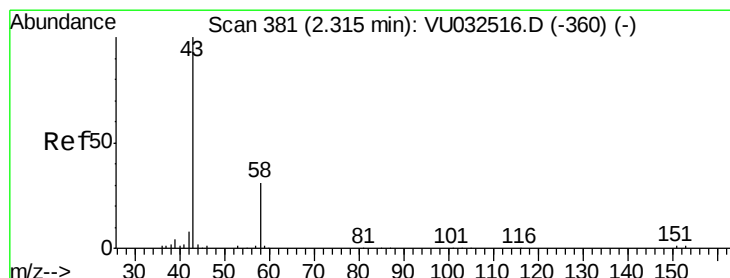
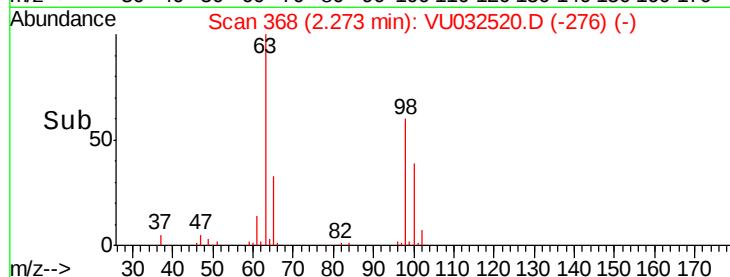
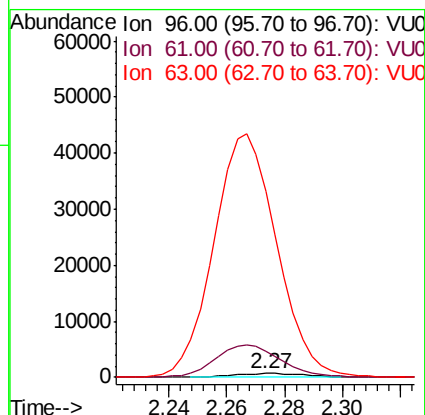
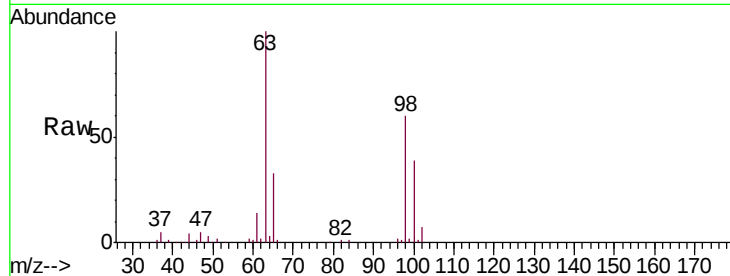
Tgt Ion: 96 Resp: 1161

Ion Ratio Lower Upper

96 100

61 703.0 129.5 240.5#

63 4930.8 103.4 192.0#



#13

Acetone

Concen: 1.474 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032520.D

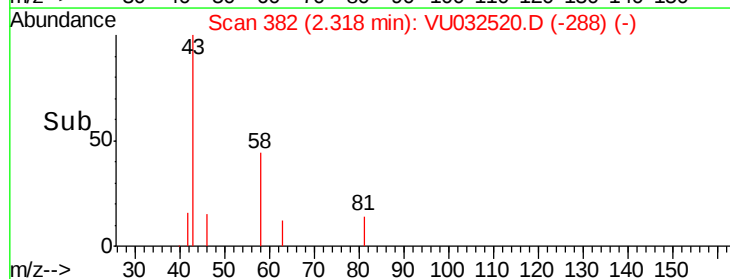
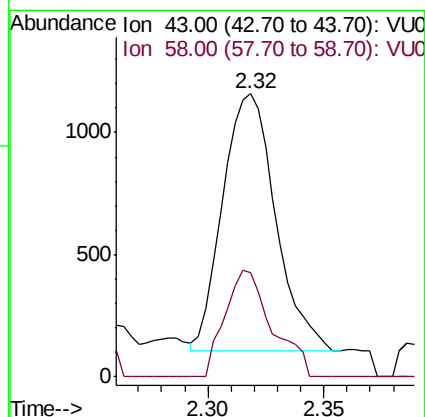
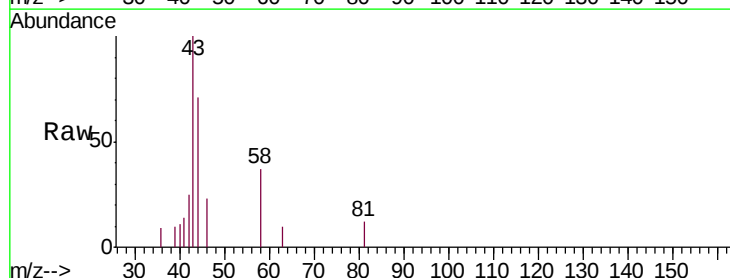
Acq: 07 Jun 2019 00:58

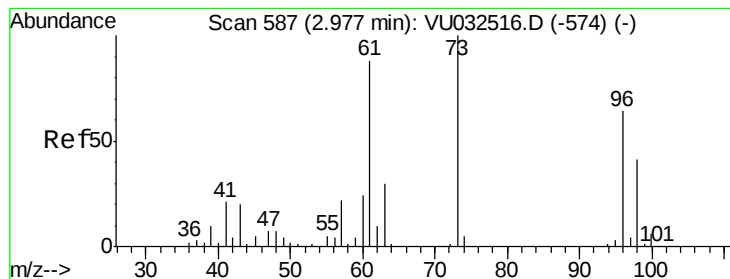
Tgt Ion: 43 Resp: 1674

Ion Ratio Lower Upper

43 100

58 36.7 0.0 64.0





#17

trans-1,2-Dichloroethene

Concen: 6.959 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

Instrument :

MSVOA_U

ClientSampleId :

DB8J1

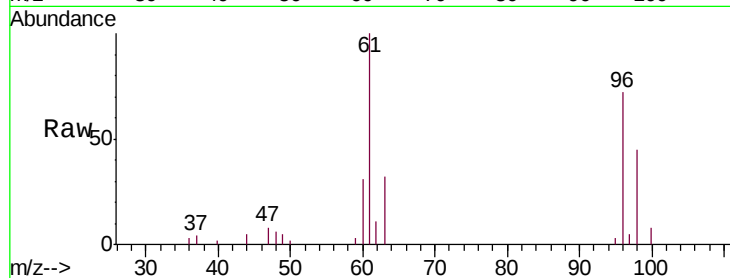
Tgt Ion: 96 Resp: 9070

Ion Ratio Lower Upper

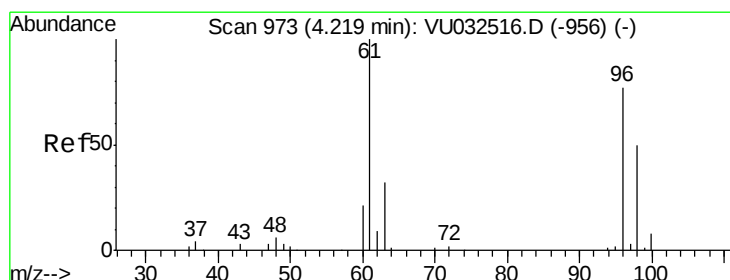
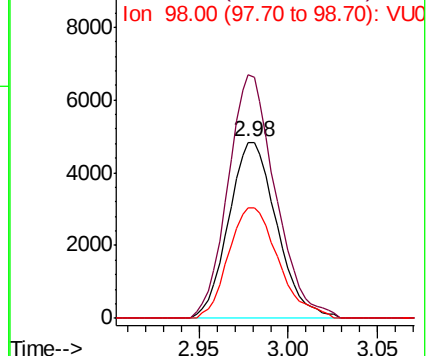
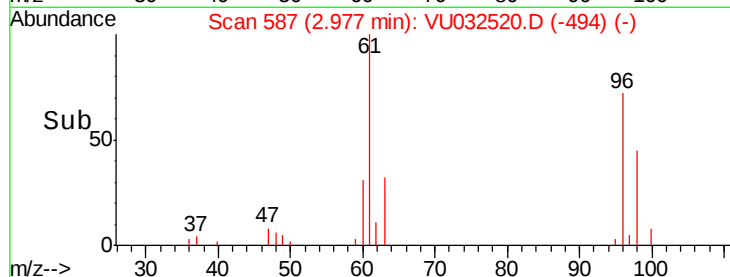
96 100

61 138.3 95.7 177.7

98 62.8 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU032520.D (-494) (-)



#20

cis-1,2-Dichloroethene

Concen: 173.721 ug/L

RT: 4.22 min Scan# 973

Delta R.T. -0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

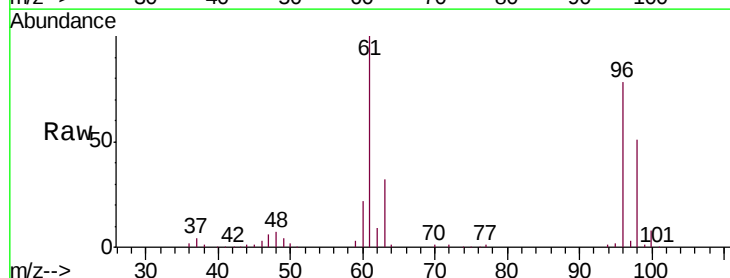
Tgt Ion: 96 Resp: 256235

Ion Ratio Lower Upper

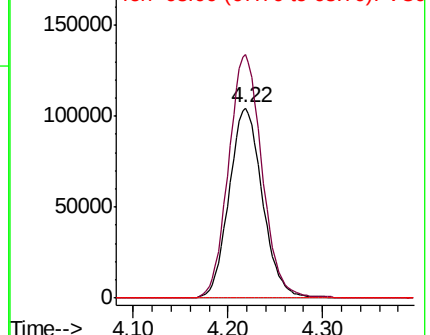
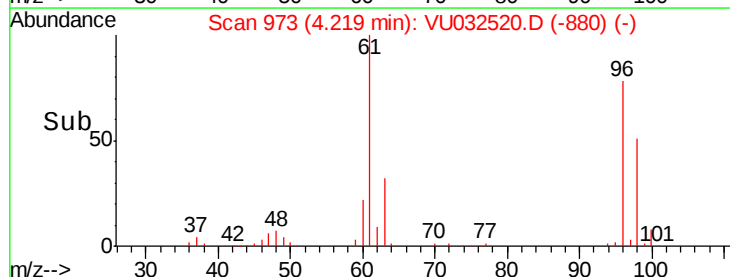
96 100

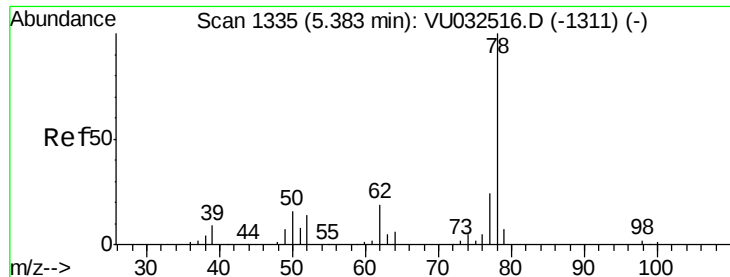
61 128.0 87.2 162.0

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU032520.D (-880) (-)





#33

Benzene

Concen: 9.483 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

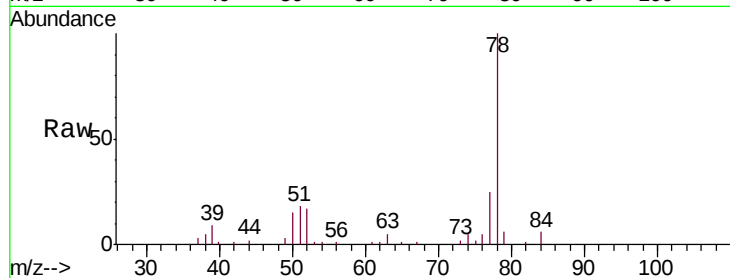
Instrument :

MSVOA_U

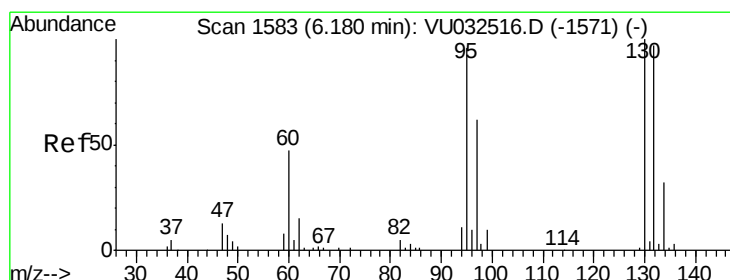
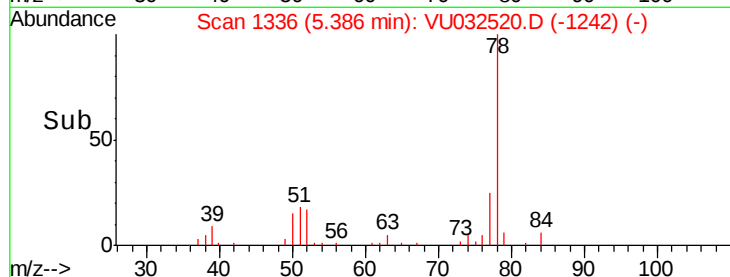
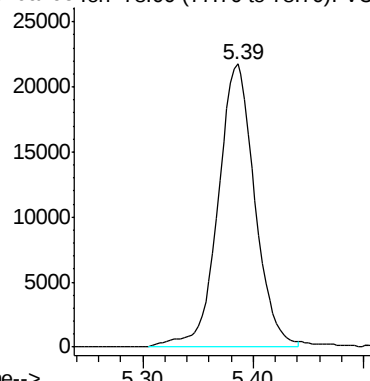
ClientSampleId :

DB8J1

Tgt Ion: 78 Resp: 50387



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 141.696 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

Tgt Ion: 95 Resp: 204826

Ion	Ratio	Lower	Upper
95	100		
97	64.9	45.8	85.2
132	101.6	71.0	131.8
130	104.0	73.4	136.2

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

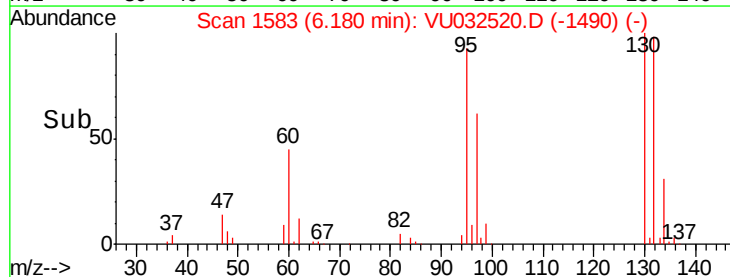
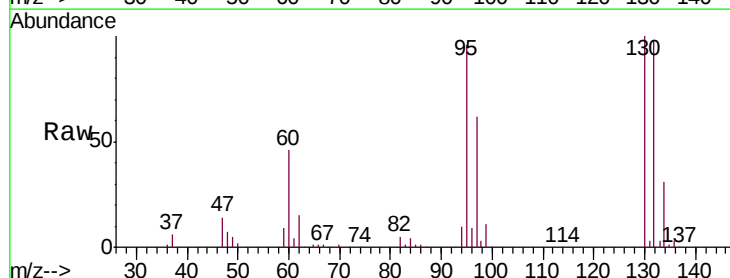
Ion 130.00 (129.70 to 130.70): V

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



Abundance Ion 95.00 (94.70 to 95.70): VU0

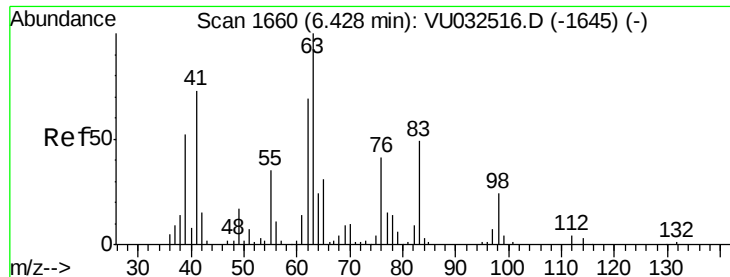
Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

6.18

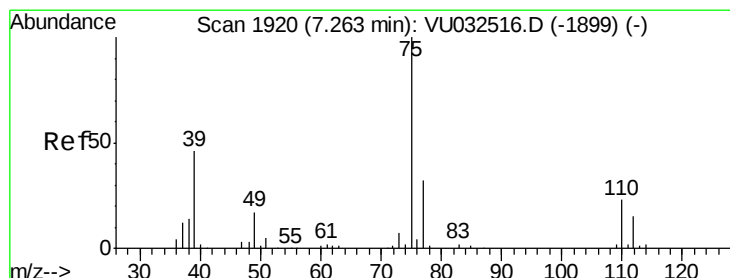
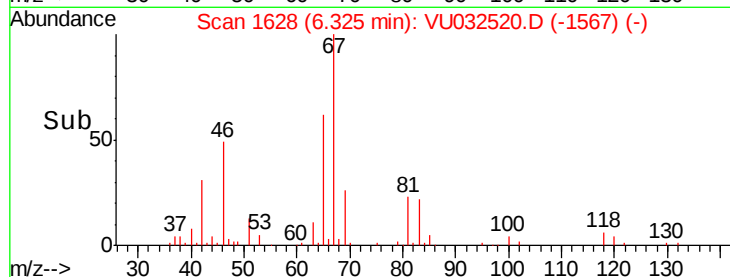
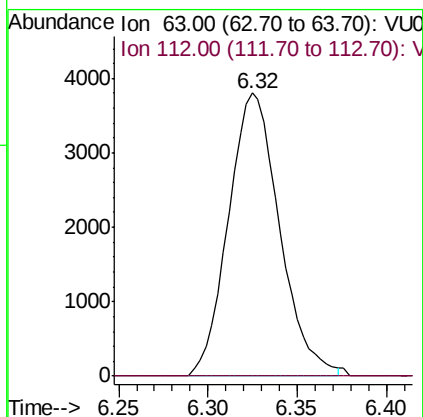
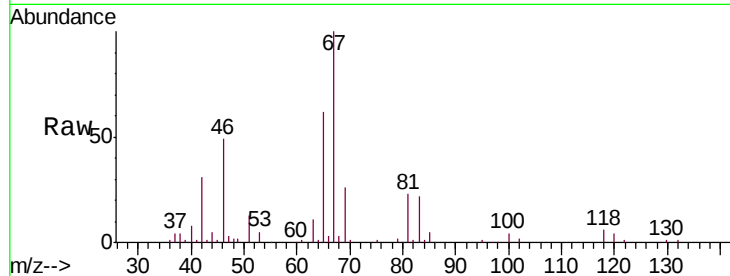
Time-->



#37
 1,2-Dichloropropane
 Concen: 5.391 ug/L
 RT: 6.32 min Scan# 1628
 Delta R.T. -0.10 min
 Lab File: VU032520.D
 Acq: 07 Jun 2019 00:58

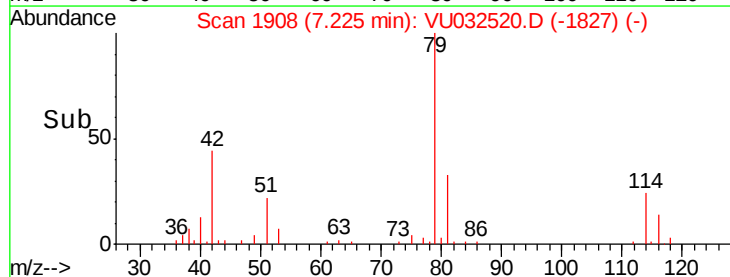
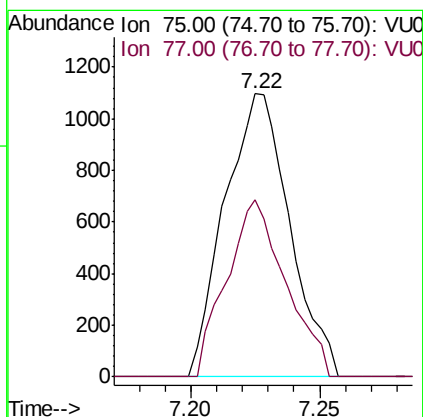
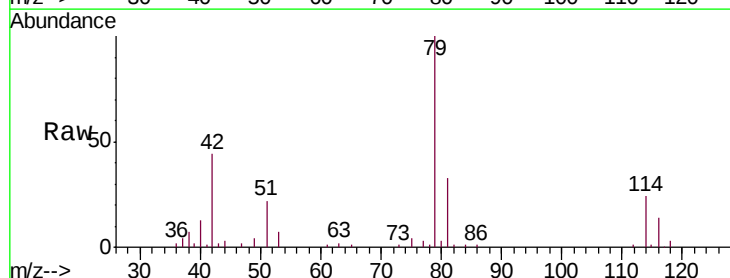
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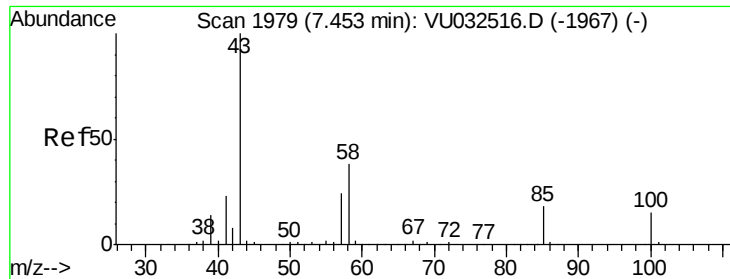
Tgt Ion: 63 Resp: 7593
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.866 ug/L
 RT: 7.22 min Scan# 1908
 Delta R.T. -0.04 min
 Lab File: VU032520.D
 Acq: 07 Jun 2019 00:58

Tgt Ion: 75 Resp: 1924
 Ion Ratio Lower Upper
 75 100
 77 62.4 22.0 41.0#

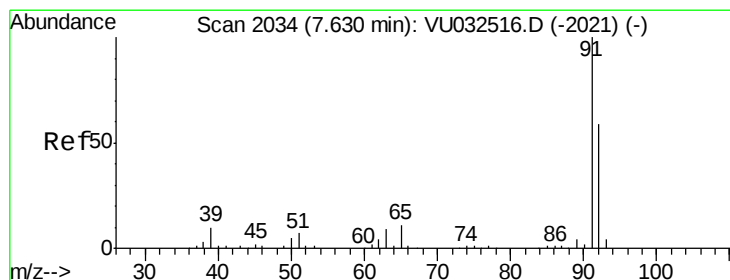
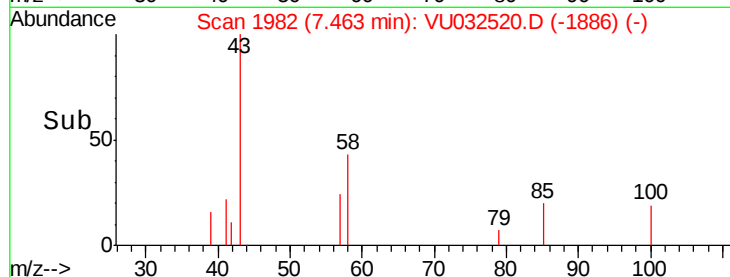
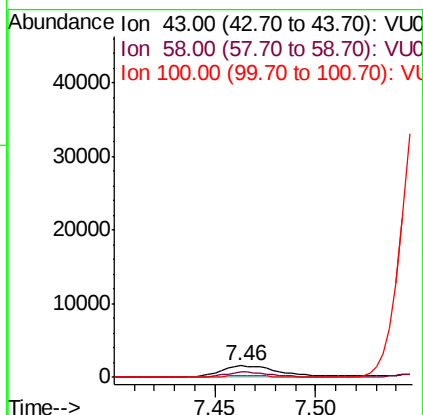
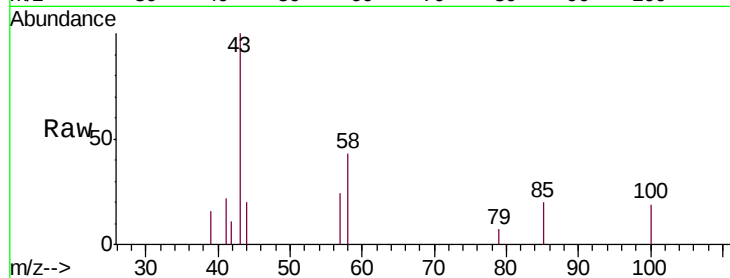




#40
4-Methyl-2-pentanone
Concen: 1.463 ug/L
RT: 7.46 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VU032520.D
Acq: 07 Jun 2019 00:58

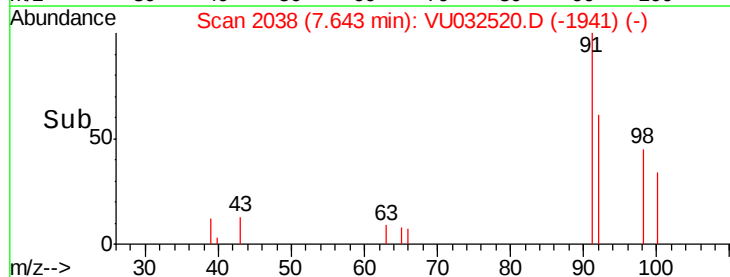
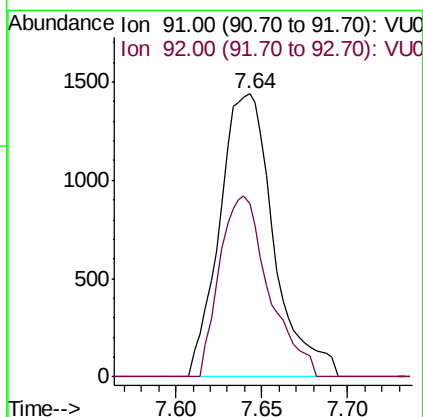
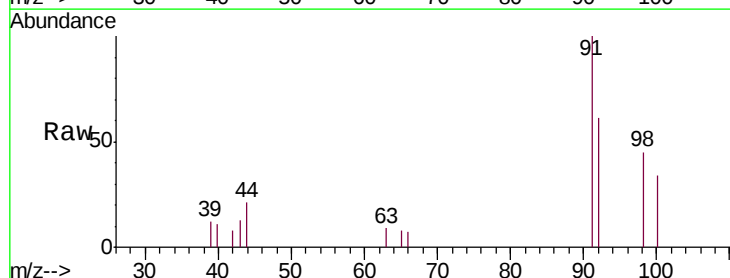
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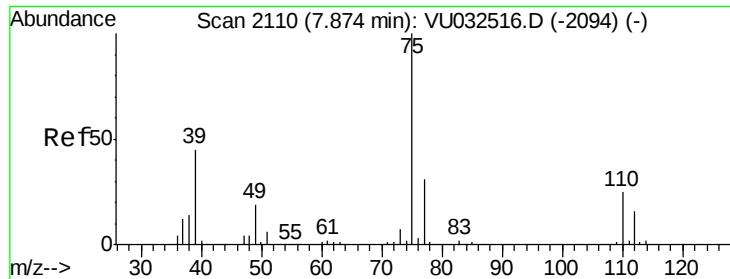
Tgt Ion: 43 Resp: 3314
Ion Ratio Lower Upper
43 100
58 34.5 30.8 46.2
100 11.2 12.1 18.1#



#42
Toluene
Concen: 0.545 ug/L
RT: 7.64 min Scan# 2038
Delta R.T. 0.01 min
Lab File: VU032520.D
Acq: 07 Jun 2019 00:58

Tgt Ion: 91 Resp: 3170
Ion Ratio Lower Upper
91 100
92 61.5 39.7 73.7





#44

trans-1,3-Dichloropropene

Concen: 0.749 ug/L

RT: 7.85 min Scan# 2103

Delta R.T. -0.02 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

Instrument :

MSVOA_U

ClientSampleId :

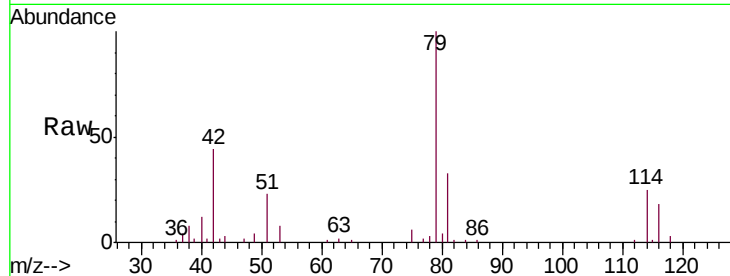
DB8J1

Tgt Ion: 75 Resp: 1477

Ion Ratio Lower Upper

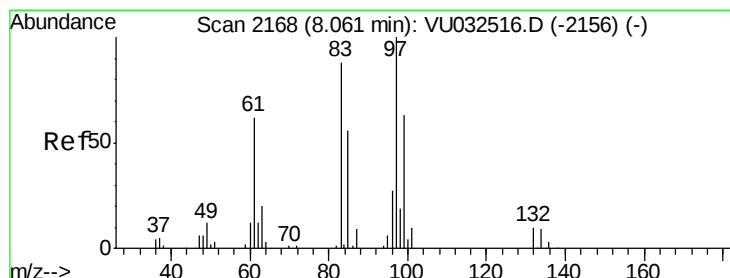
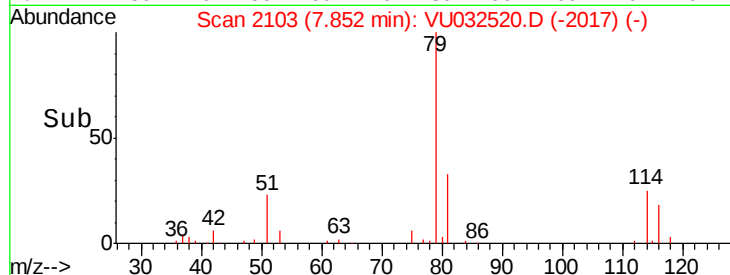
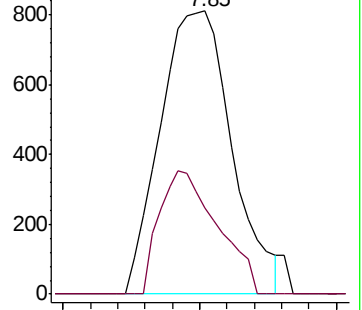
75 100

77 30.6 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU032516.D (-2094) (-)

Ion 77.00 (76.70 to 77.70): VU032516.D (-2094) (-)



#45

1,1,2-Trichloroethane

Concen: 0.776 ug/L

RT: 8.22 min Scan# 2217

Delta R.T. 0.16 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

Tgt Ion: 97 Resp: 1033

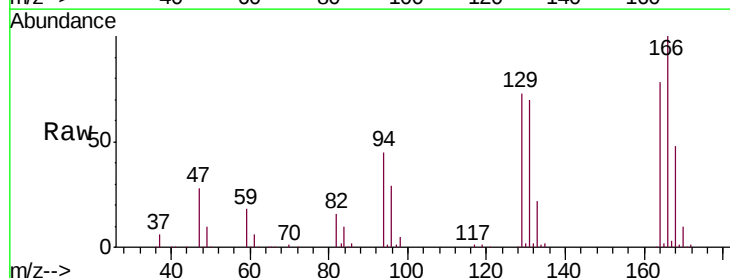
Ion Ratio Lower Upper

97 100

99 0.0 44.1 81.9#

83 223.5 59.4 110.2#

85 43.0 39.1 72.7

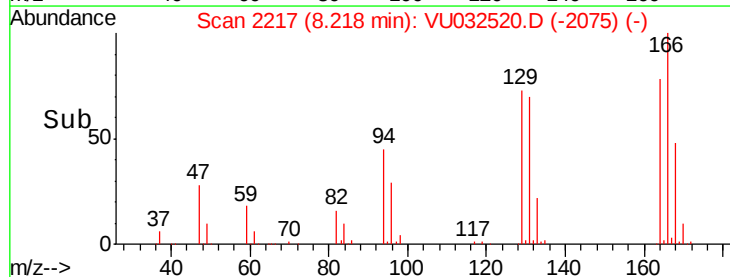
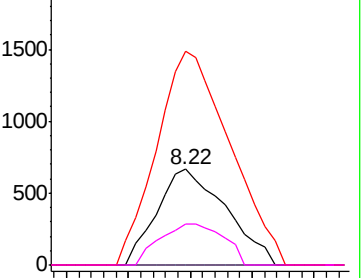


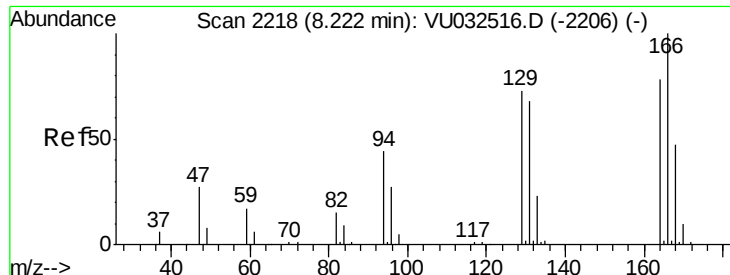
Abundance Ion 97.00 (96.70 to 97.70): VU032516.D (-2156) (-)

Ion 99.00 (98.70 to 99.70): VU032516.D (-2156) (-)

Ion 83.00 (82.70 to 83.70): VU032516.D (-2156) (-)

Ion 85.00 (84.70 to 85.70): VU032516.D (-2156) (-)

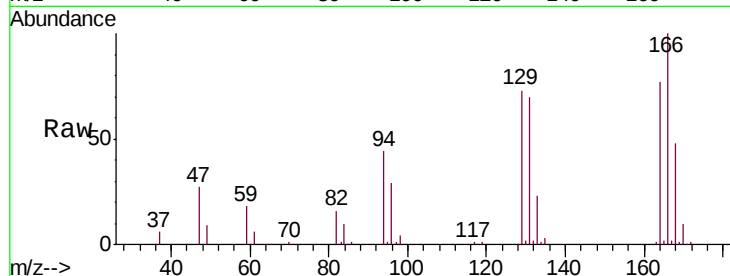




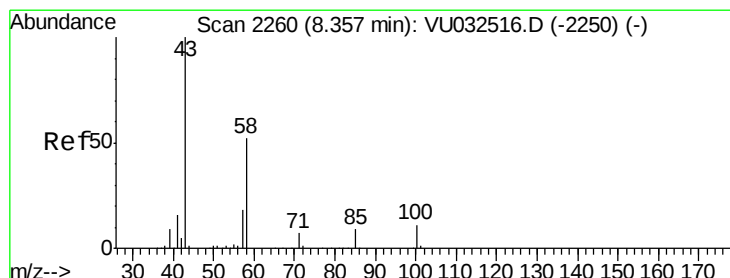
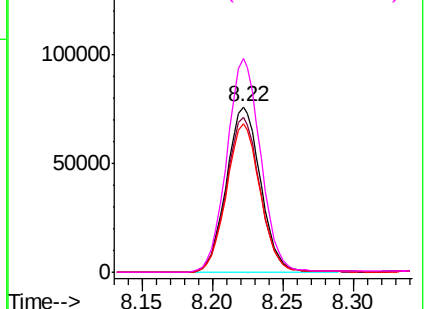
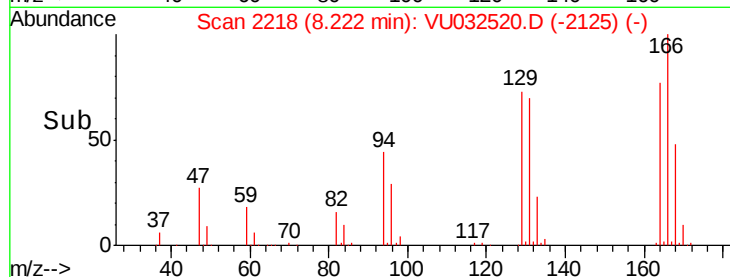
#46
Tetrachloroethene
Concen: 108.154 ug/L
RT: 8.22 min Scan# 2218
Delta R.T. 0.00 min
Lab File: VU032520.D
Acq: 07 Jun 2019 00:58

Instrument :
MSVOA_U
ClientSampled :
DB8J1

Tgt Ion	Ratio	Lower	Upper
164	100		
129	94.0	65.3	121.3
131	90.1	64.0	119.0
166	129.2	88.8	165.0

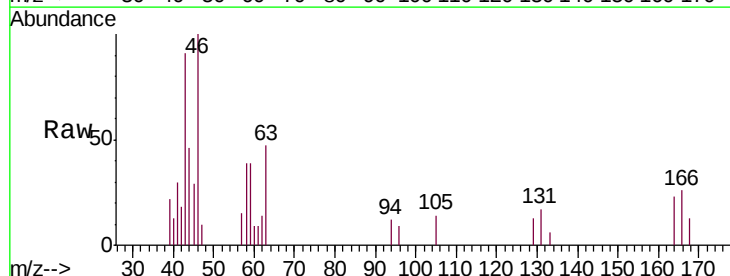


Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

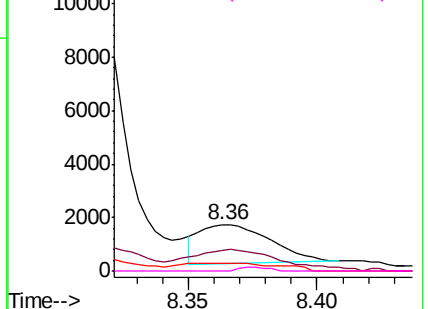
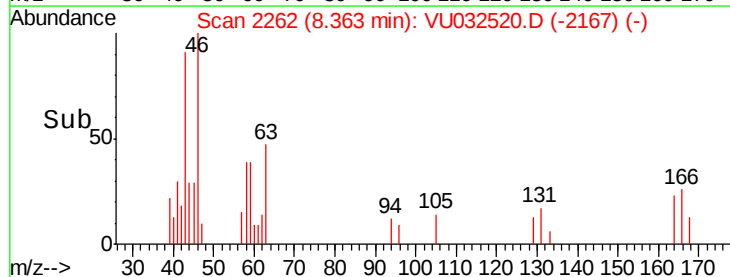


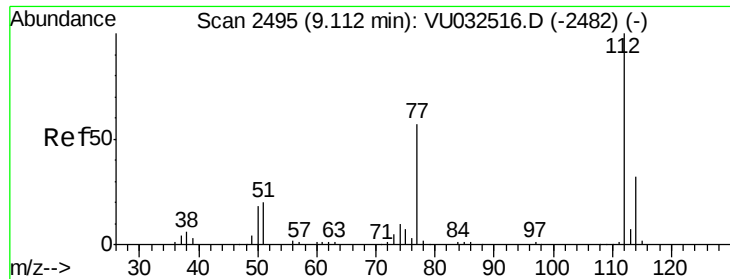
#48
2-Hexanone
Concen: 1.487 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.01 min
Lab File: VU032520.D
Acq: 07 Jun 2019 00:58

Tgt Ion	Ratio	Lower	Upper
43	100		
58	71.7	42.0	63.0#
57	2.5	14.6	22.0#
100	3.4	9.2	13.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

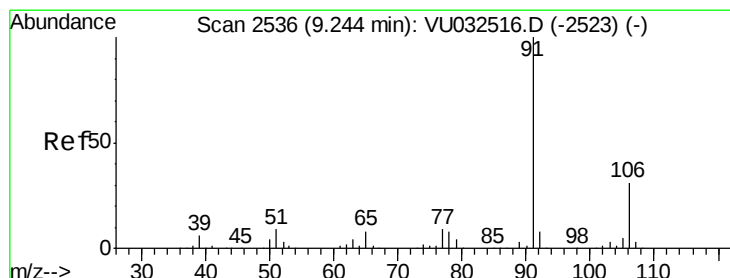
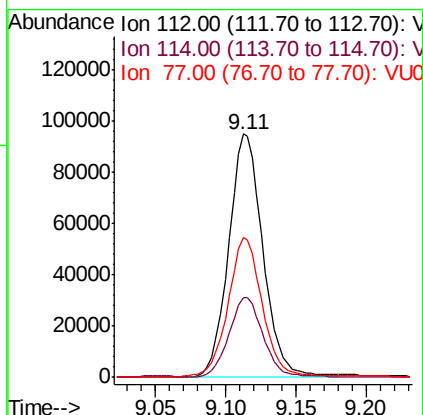
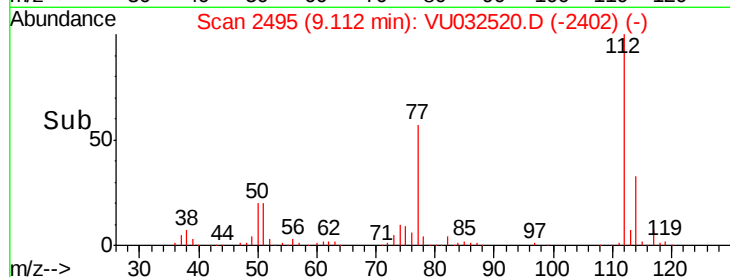
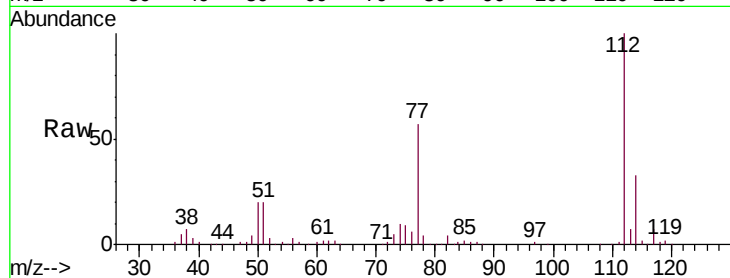




#51
Chlorobenzene
Concen: 43.148 ug/L
RT: 9.11 min Scan# 2495
Delta R.T. 0.00 min
Lab File: VU032520.D
Acq: 07 Jun 2019 00:58

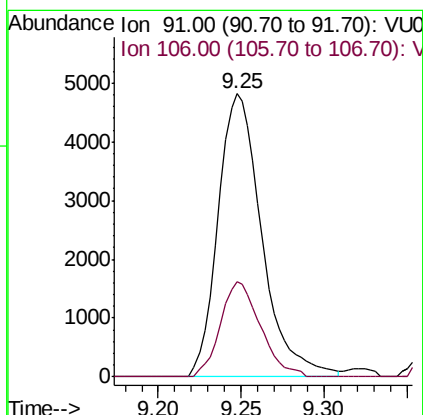
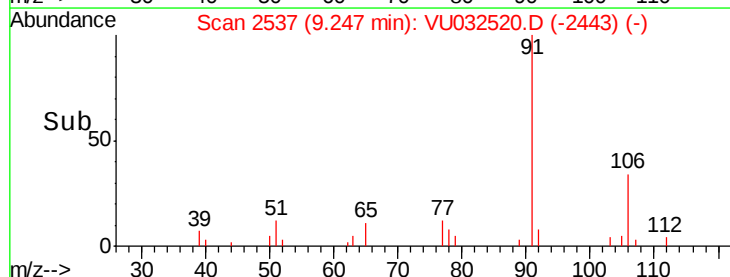
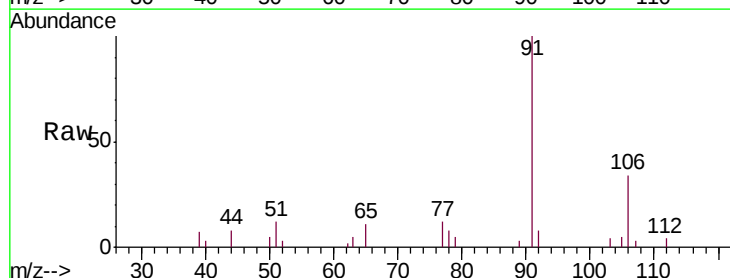
Instrument :
MSVOA_U
ClientSampleId :
DB8J1

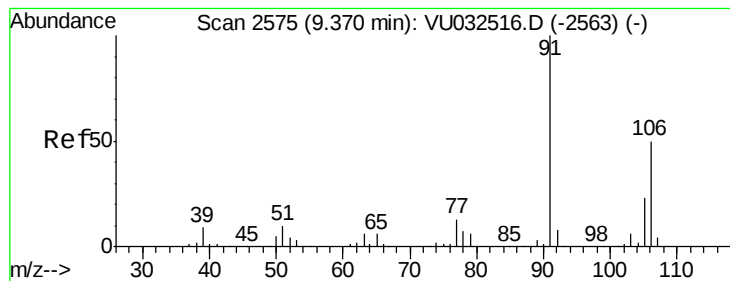
Tgt Ion: 112 Resp: 161759
Ion Ratio Lower Upper
112 100
114 32.7 22.6 42.0
77 57.3 46.1 69.1



#52
Ethylbenzene
Concen: 1.361 ug/L
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU032520.D
Acq: 07 Jun 2019 00:58

Tgt Ion: 91 Resp: 8828
Ion Ratio Lower Upper
91 100
106 33.5 22.0 41.0





#53

m,p-Xylene

Concen: 0.499 ug/L

RT: 9.38 min Scan# 2578

Delta R.T. 0.01 min

Lab File: VU032520.D

Acq: 07 Jun 2019 00:58

Instrument :

MSVOA_U

ClientSampled :

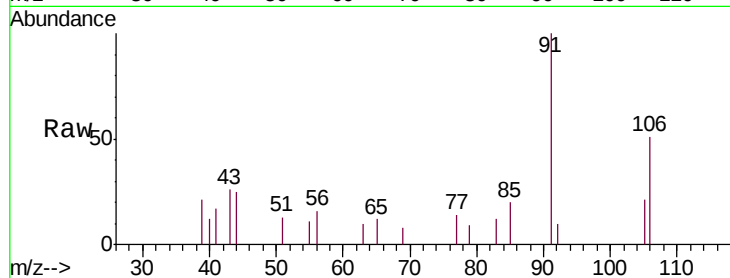
DB8J1

Tgt Ion:106 Resp: 1230

Ion Ratio Lower Upper

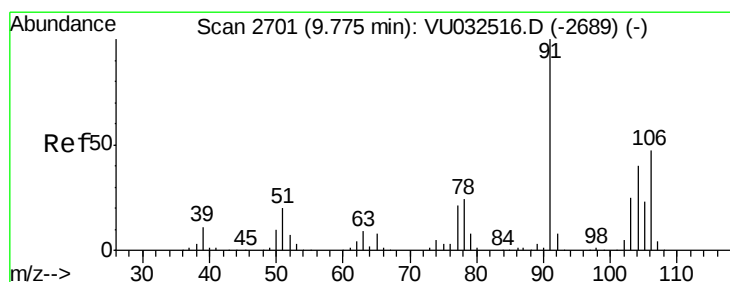
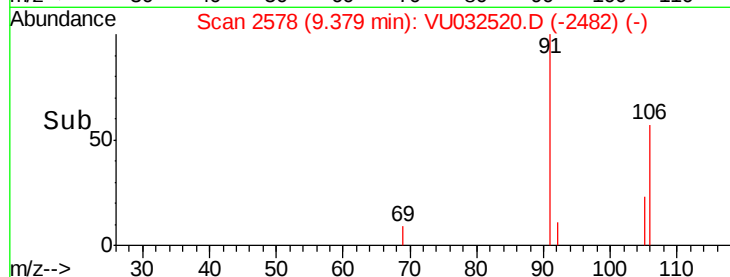
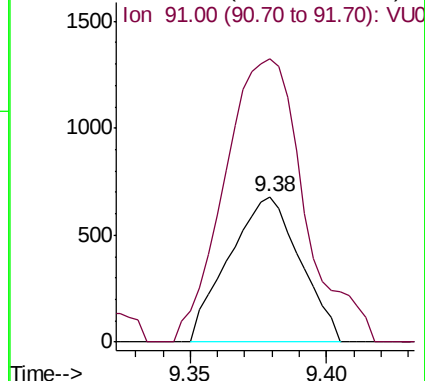
106 100

91 194.8 141.7 263.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 2.542 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032520.D

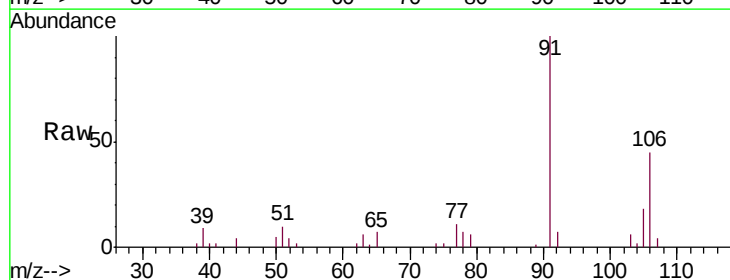
Acq: 07 Jun 2019 00:58

Tgt Ion:106 Resp: 6224

Ion Ratio Lower Upper

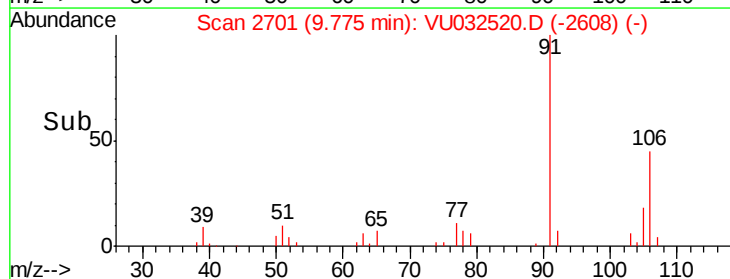
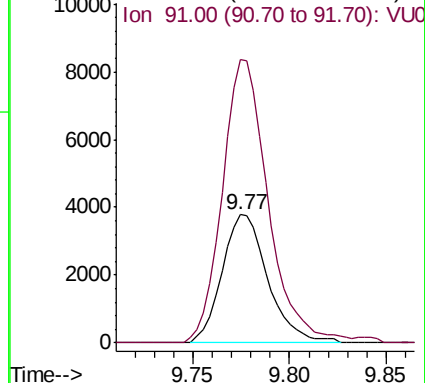
106 100

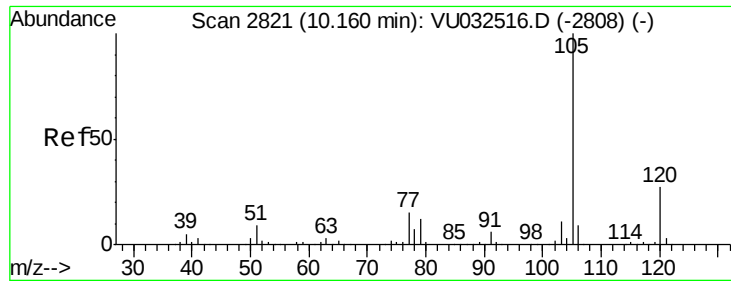
91 220.6 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

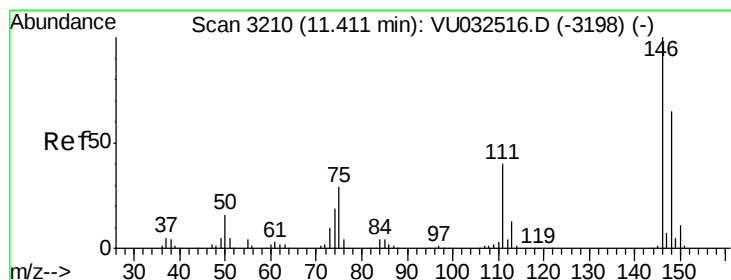
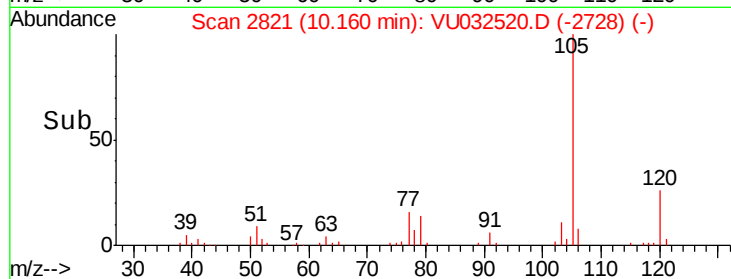
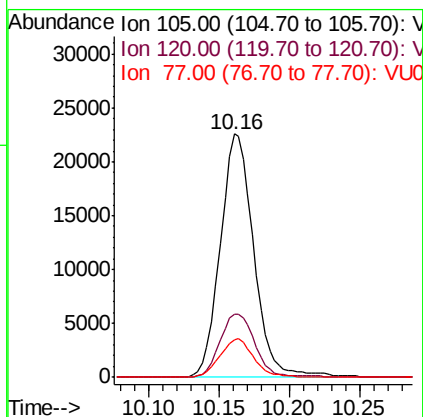
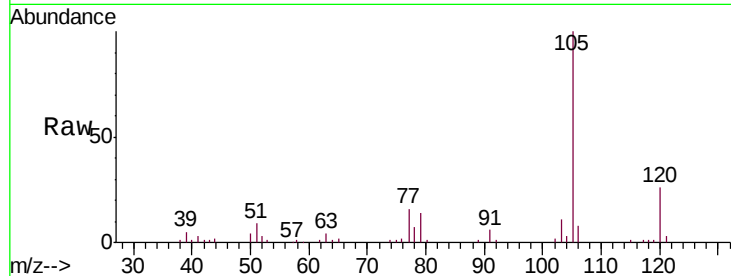




#56
Isopropylbenzene
Concen: 5.781 ug/L
RT: 10.16 min Scan# 2821
Delta R.T. -0.00 min
Lab File: VU032520.D
Acq: 07 Jun 2019 00:58

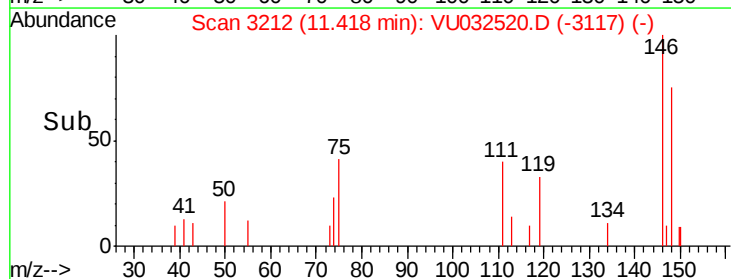
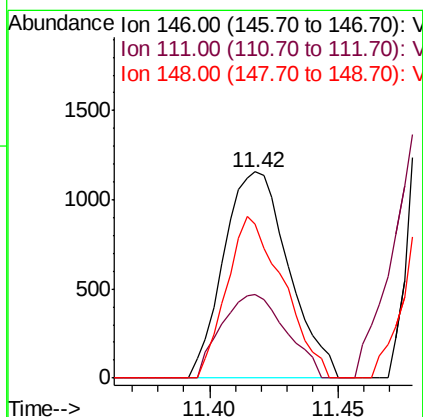
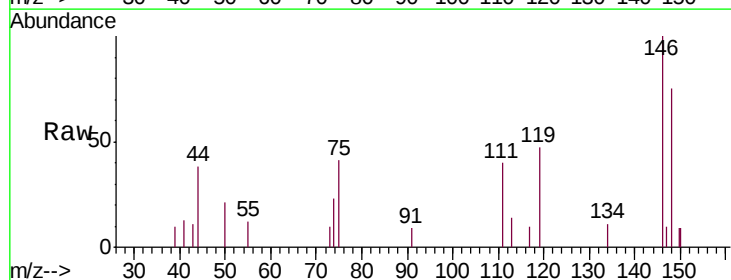
Instrument :
MSVOA_U
ClientSampleId :
DB8J1

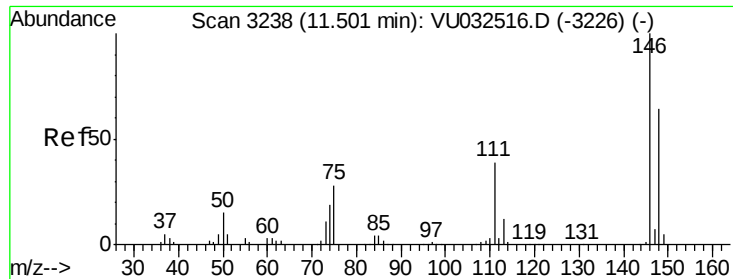
Tgt Ion:105 Resp: 37332
Ion Ratio Lower Upper
105 100
120 27.0 21.6 32.4
77 15.9 12.4 18.6



#62
1,3-Dichlorobenzene
Concen: 0.692 ug/L
RT: 11.42 min Scan# 3212
Delta R.T. 0.01 min
Lab File: VU032520.D
Acq: 07 Jun 2019 00:58

Tgt Ion:146 Resp: 2033
Ion Ratio Lower Upper
146 100
111 40.3 27.3 50.7
148 75.0 44.4 82.5

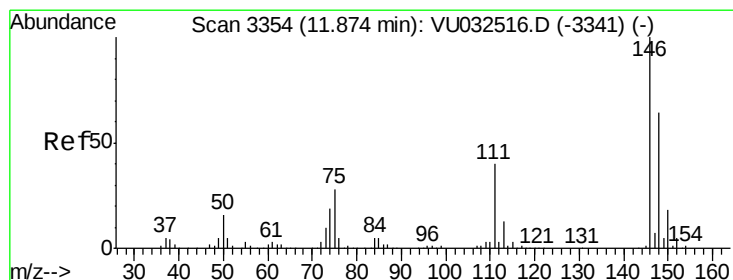
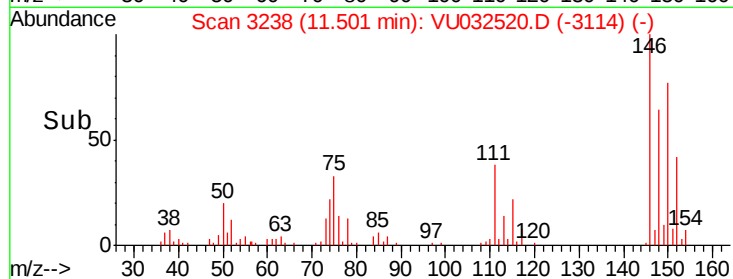
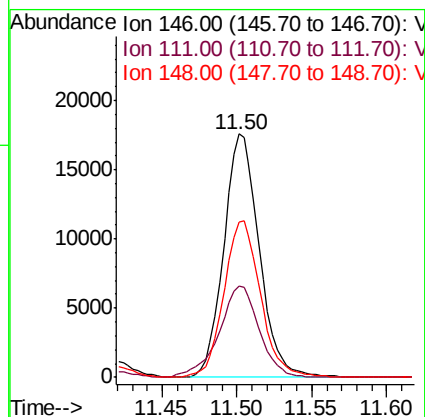
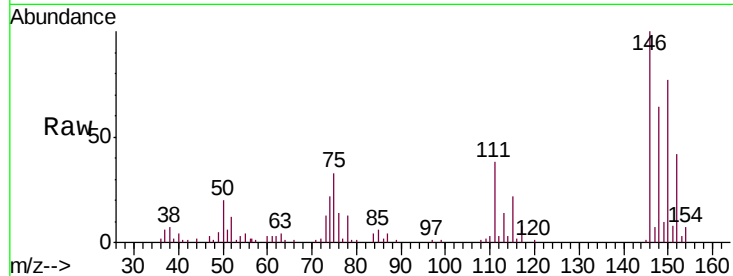




#63
1,4-Dichlorobenzene
Concen: 9.660 ug/L
RT: 11.50 min Scan# 3238
Delta R.T. -0.00 min
Lab File: VU032520.D
Acq: 07 Jun 2019 00:58

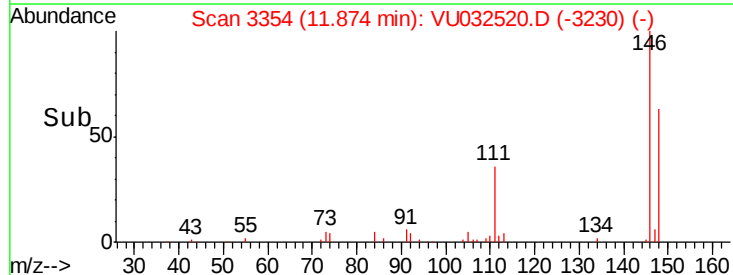
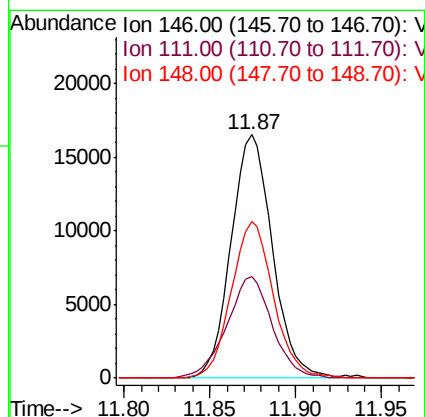
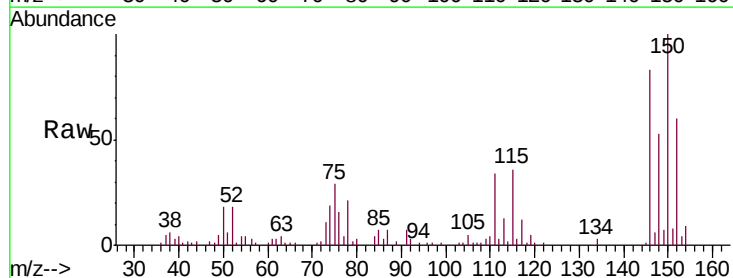
Instrument :
MSVOA_U
ClientSampleId :
DB8J1

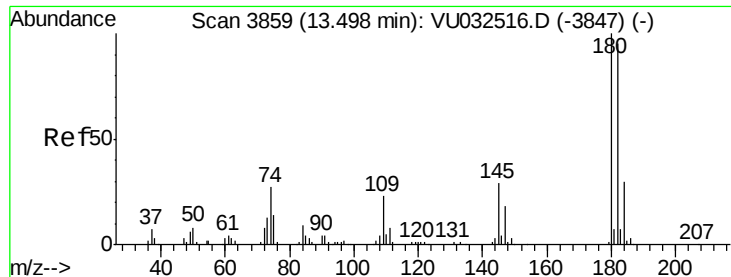
Tgt Ion:146 Resp: 28997
Ion Ratio Lower Upper
146 100
111 37.6 26.6 49.4
148 63.9 44.9 83.5



#65
1,2-Dichlorobenzene
Concen: 9.330 ug/L
RT: 11.87 min Scan# 3354
Delta R.T. 0.00 min
Lab File: VU032520.D
Acq: 07 Jun 2019 00:58

Tgt Ion:146 Resp: 27697
Ion Ratio Lower Upper
146 100
111 41.5 32.6 48.8
148 64.1 50.5 75.7

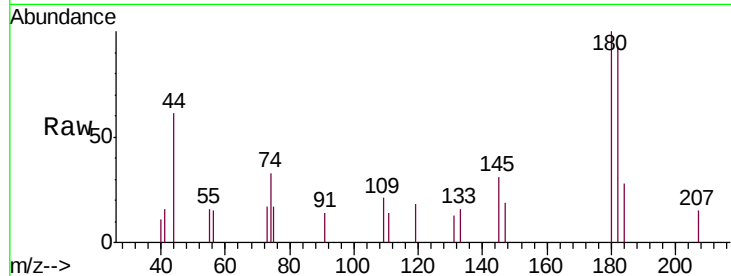




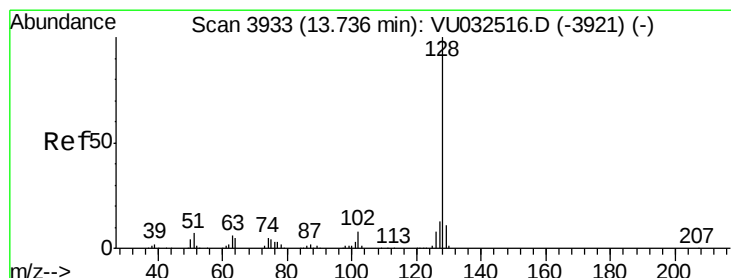
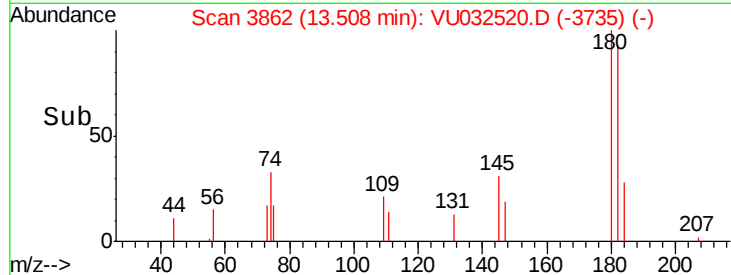
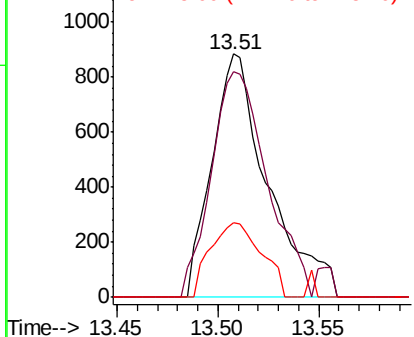
#68
 1,2,4-trichlorobenzene
 Concen: 0.881 ug/L
 RT: 13.51 min Scan# 3862
 Delta R.T. 0.01 min
 Lab File: VU032520.D
 Acq: 07 Jun 2019 00:58

Instrument :
 MSVOA_U
 ClientSampleId :
 DB8J1

Tgt Ion:180 Resp: 1706
 Ion Ratio Lower Upper
 180 100
 182 93.1 76.5 114.7
 145 28.0 23.8 35.6

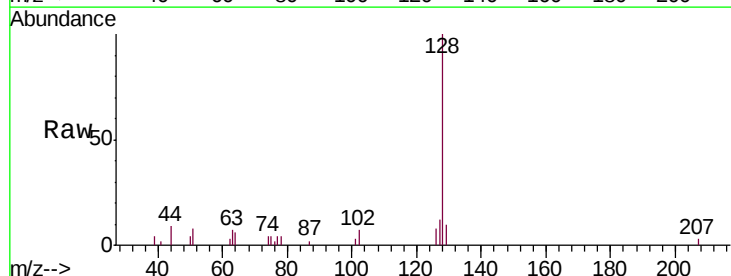


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V



#69
 Naphthalene
 Concen: 2.506 ug/L
 RT: 13.75 min Scan# 3937
 Delta R.T. 0.01 min
 Lab File: VU032520.D
 Acq: 07 Jun 2019 00:58

Tgt Ion:128 Resp: 15300
 Ion Ratio Lower Upper
 128 100
 127 0.6 10.4 15.6#
 129 3.3 8.5 12.7#



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

