

Data File : VU032527.D
Acq On : 07 Jun 2019 03:39
Operator : JC/SP
Sample : K3215-05
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 48 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
DB8H9

Quant Time: Jun 07 23:20:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jun 07 22:19:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	240182	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	243060	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	143169	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	44507	28.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	57.12%#
7) Chloroethane-d5	1.67	69	40879	32.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	65.28%#
11) 1,1-Dichloroethene-d2	2.27	63	81172	26.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	53.20%#
21) 2-Butanone-d5	4.17	46	157211	120.56	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	120.56%
24) Chloroform-d	4.64	84	122518	42.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.32%
26) 1,2-Dichloroethane-d4	5.30	65	86077	47.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.04%
32) Benzene-d6	5.33	84	237649	37.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	75.32%
36) 1,2-Dichloropropane-d6	6.32	67	82045	41.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	82.94%
41) Toluene-d8	7.56	98	236340	39.50	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	79.00%#
43) trans-1,3-Dichloropropene-	7.85	79	41126	43.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.86%
47) 2-Hexanone-d5	8.31	63	131047	136.54	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	136.54%#
57) 1,1,2,2-Tetrachloroethane-	10.43	84	150684	52.56	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.12%
64) 1,2-Dichlorobenzene-d4	11.86	152	128630	46.91	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.82%

Target Compounds

					Qvalue
12) 1,1-Dichloroethene	2.28	96	8656	6.074 ug/L #	1
13) Acetone	2.31	43	11634100	8646.416 ug/L	99
14) Carbon disulfide	2.47	76	11319	2.614 ug/L	98
16) Methylene chloride	2.69	84	81828	50.319 ug/L	97
17) trans-1,2-Dichloroethene	2.98	96	2000	1.295 ug/L	89
19) 1,1-Dichloroethane	3.44	63	109825	39.009 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	37357	21.374 ug/L	94
22) 2-Butanone	4.25	43	308047	193.705 ug/L	97
27) 1,2-Dichloroethane	5.40	62	17945	7.813 ug/L #	94
29) Cyclohexane	4.99	56	8690	3.006 ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	113174	41.131 ug/L	98
33) Benzene	5.38	78	422674	61.892 ug/L	100
34) Trichloroethene	6.18	95	181198	97.524 ug/L	98
35) Methylcyclohexane	6.41	83	8139	2.706 ug/L #	1
37) 1,2-Dichloropropane	6.43	63	28909	15.969 ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	3452437	1185.427 ug/L	99
42) Toluene	7.63	91	2259411	302.096 ug/L	98

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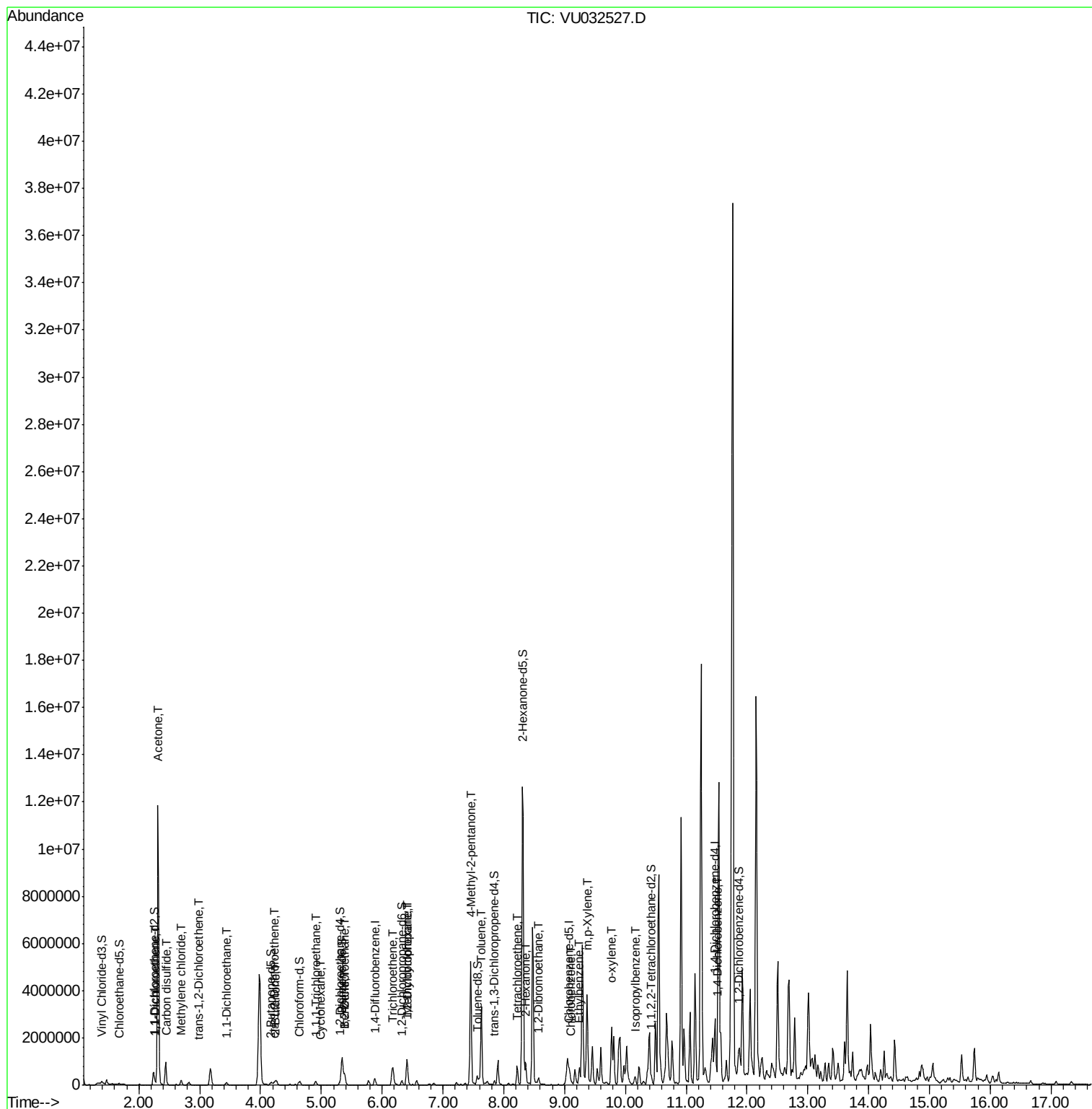
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Tetrachloroethene	8.22	164	32643	21.272	ug/L	98
48) 2-Hexanone	8.36	43	498885	208.555	ug/L	93
50) 1,2-Dibromoethane	8.58	107	2011	1.044	ug/L #	83
51) Chlorobenzene	9.12	112	17889	3.713	ug/L #	90
52) Ethylbenzene	9.24	91	480435	57.629	ug/L	99
53) m,p-Xylene	9.37	106	667024	210.415	ug/L	96
54) o-xylene	9.77	106	588002	186.817	ug/L	96
56) Isopropylbenzene	10.16	105	187544	22.597	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	3214	0.726	ug/L #	51

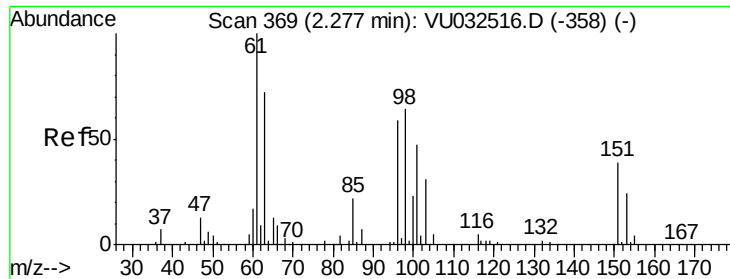
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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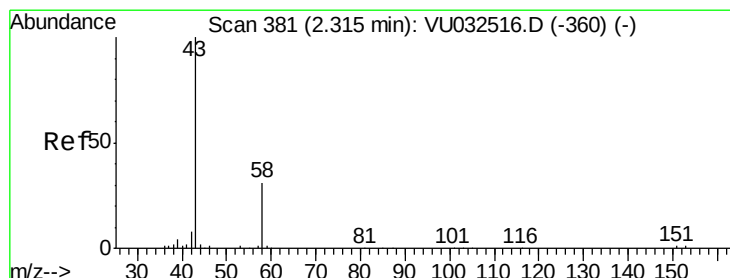
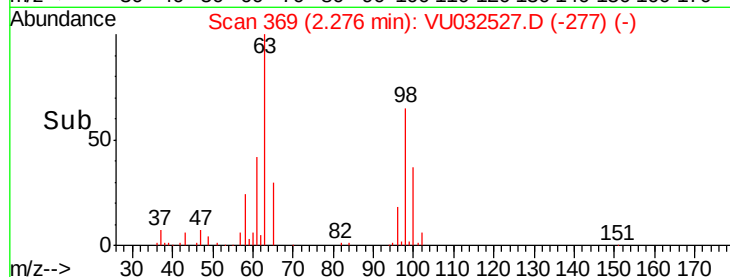
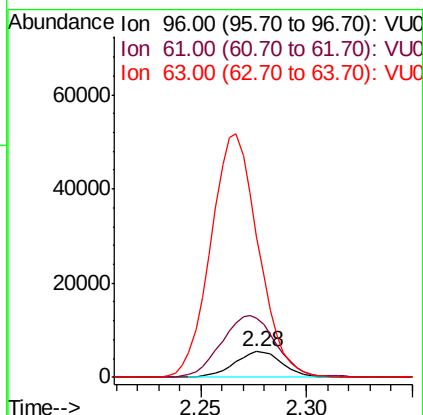
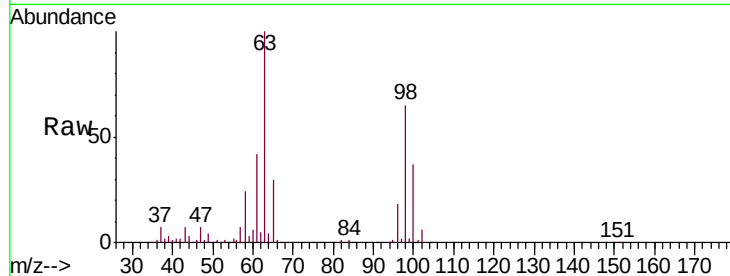




#12
 1,1-Dichloroethene
 Concen: 6.074 ug/L
 RT: 2.28 min Scan# 369
 Delta R.T. -0.00 min
 Lab File: VU032527.D
 Acq: 07 Jun 2019 03:39

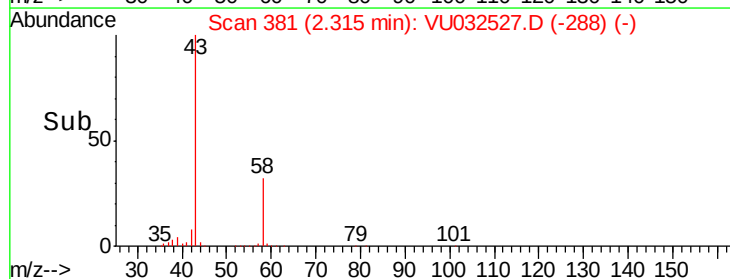
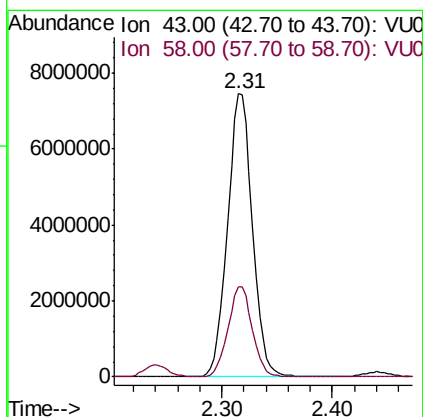
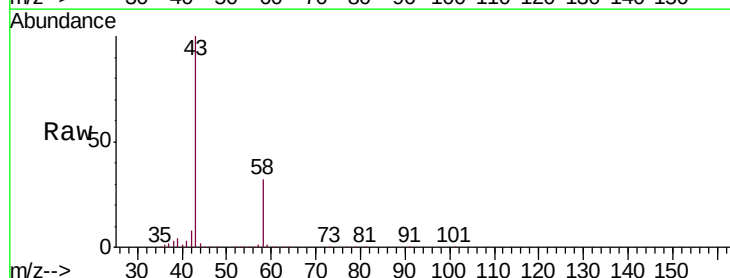
Instrument :
 MSVOA_U
 ClientSampleId :
 DB8H9

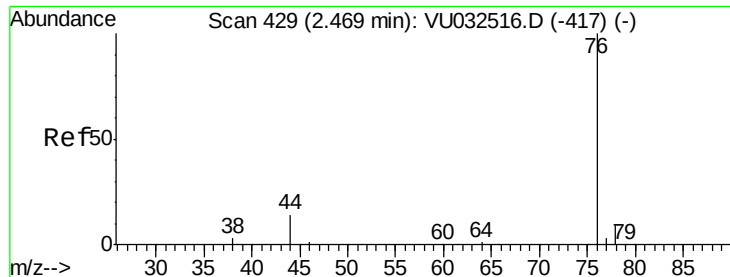
Tgt Ion: 96 Resp: 8656
 Ion Ratio Lower Upper
 96 100
 61 232.1 129.5 240.5
 63 554.3 103.4 192.0#



#13
 Acetone
 Concen: 8646.416 ug/L
 RT: 2.31 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VU032527.D
 Acq: 07 Jun 2019 03:39

Tgt Ion: 43 Resp: 11634100
 Ion Ratio Lower Upper
 43 100
 58 31.3 0.0 64.0

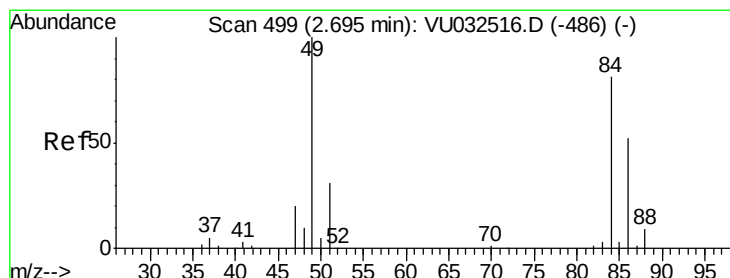
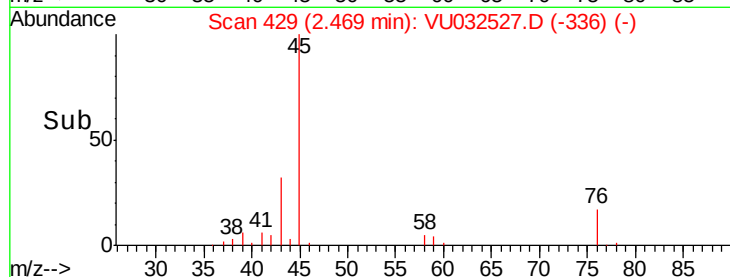
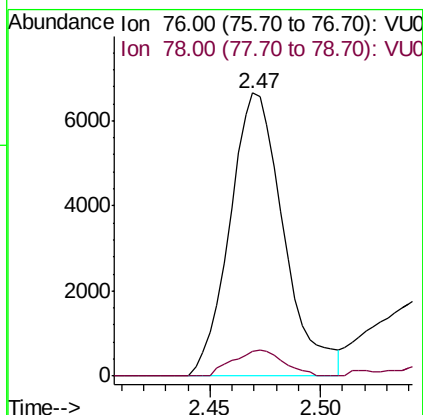
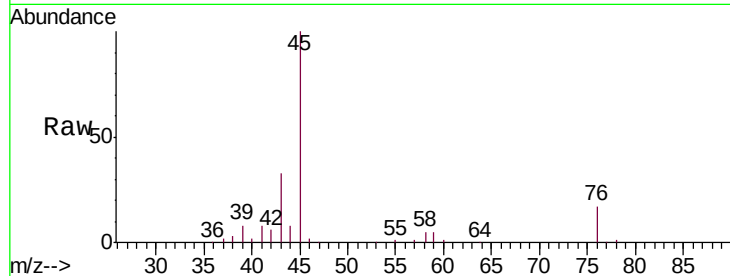




#14
Carbon disulfide
Concen: 2.614 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.00 min
Lab File: VU032527.D
Acq: 07 Jun 2019 03:39

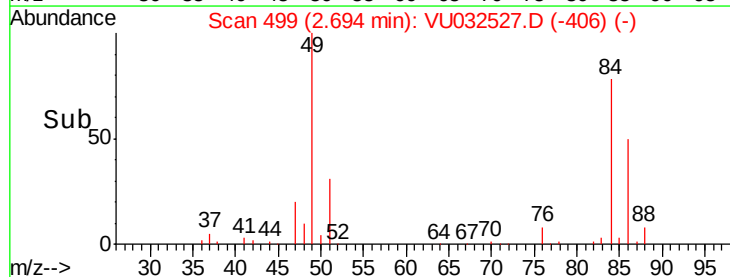
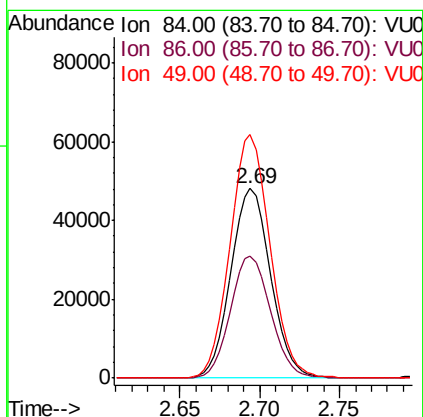
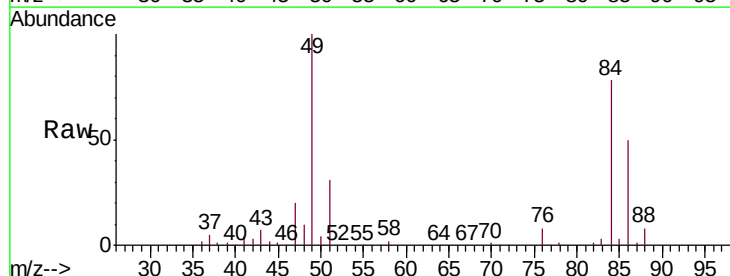
Instrument :
MSVOA_U
ClientSampleId :
DB8H9

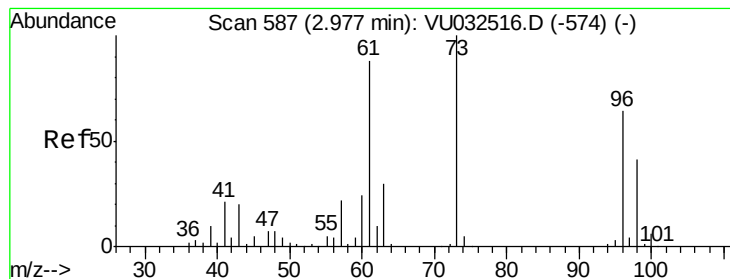
Tgt Ion: 76 Resp: 11319
Ion Ratio Lower Upper
76 100
78 8.6 7.6 11.4



#16
Methylene chloride
Concen: 50.319 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU032527.D
Acq: 07 Jun 2019 03:39

Tgt Ion: 84 Resp: 81828
Ion Ratio Lower Upper
84 100
86 64.2 44.7 82.9
49 128.4 86.1 159.9





#17

trans-1,2-Dichloroethene

Concen: 1.295 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU032527.D

Acq: 07 Jun 2019 03:39

Instrument :

MSVOA_U

ClientSampleId :

DB8H9

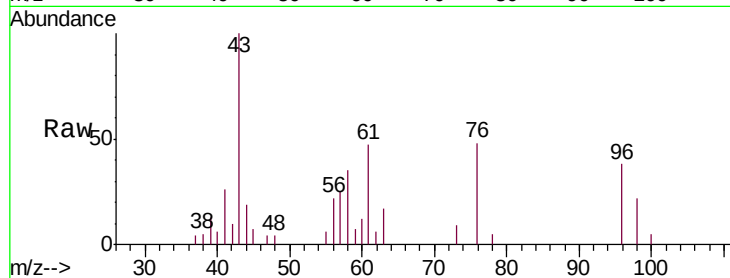
Tgt Ion: 96 Resp: 2000

Ion Ratio Lower Upper

96 100

61 121.6 95.7 177.7

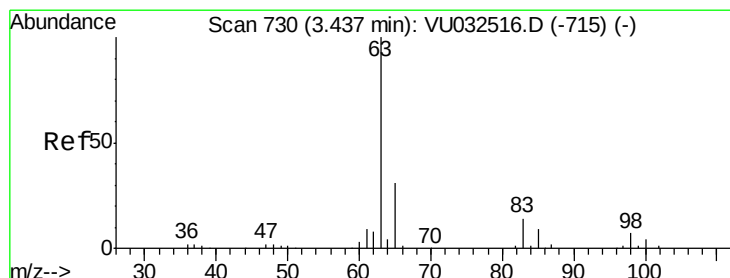
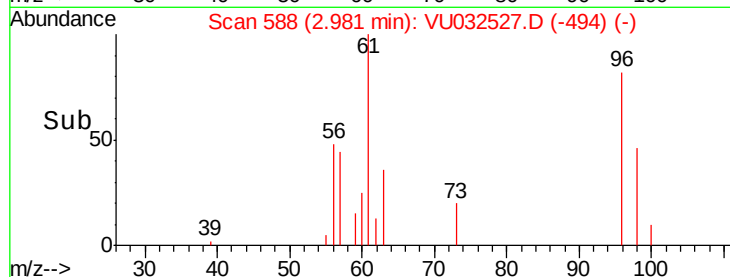
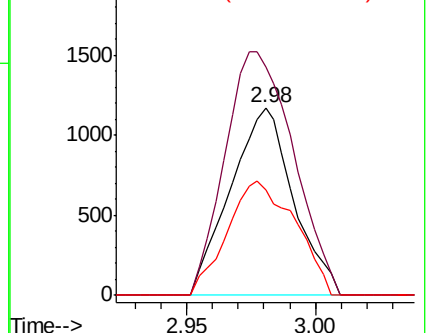
98 56.2 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU032516.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU032516.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU032516.D (-574) (-)



#19

1,1-Dichloroethane

Concen: 39.009 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU032527.D

Acq: 07 Jun 2019 03:39

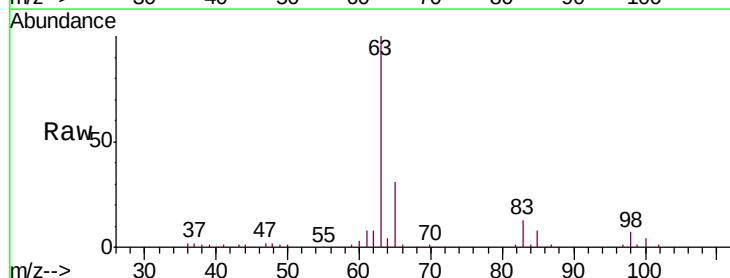
Tgt Ion: 63 Resp: 109825

Ion Ratio Lower Upper

63 100

65 30.6 21.8 40.6

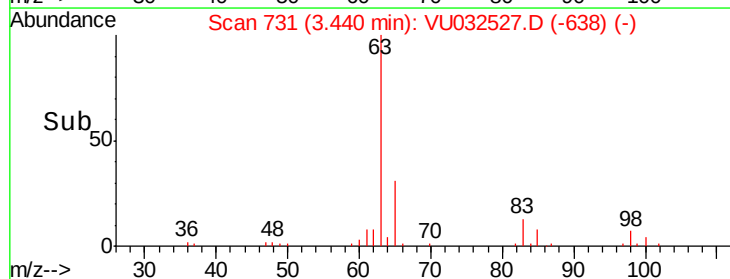
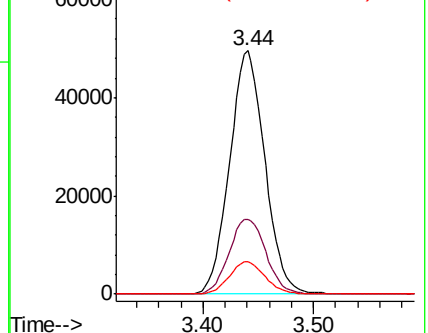
83 13.3 9.8 18.2

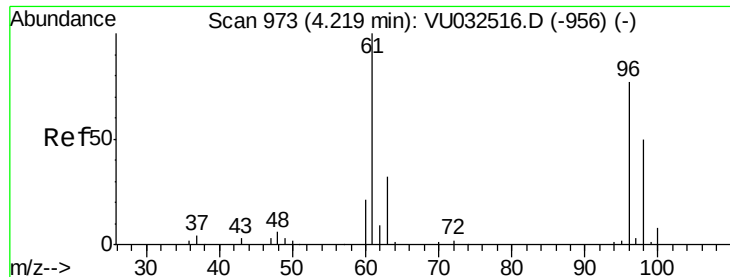


Abundance Ion 63.00 (62.70 to 63.70): VU032516.D (-715) (-)

Ion 65.00 (64.70 to 65.70): VU032516.D (-715) (-)

Ion 83.00 (82.70 to 83.70): VU032516.D (-715) (-)

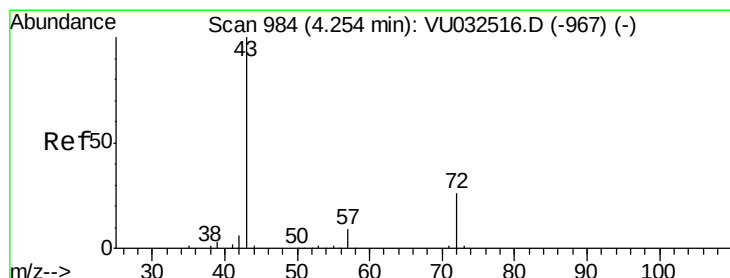
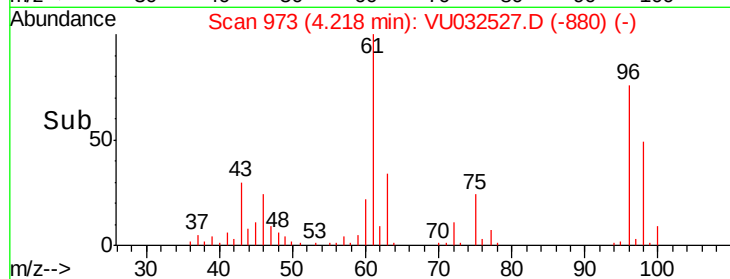
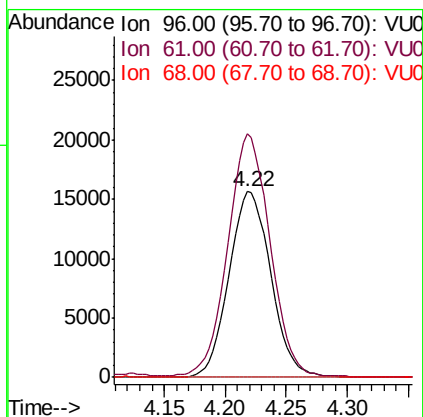
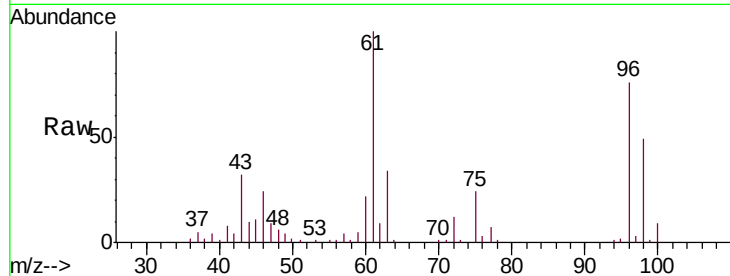




#20
 cis-1,2-Dichloroethene
 Concen: 21.374 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU032527.D
 Acq: 07 Jun 2019 03:39

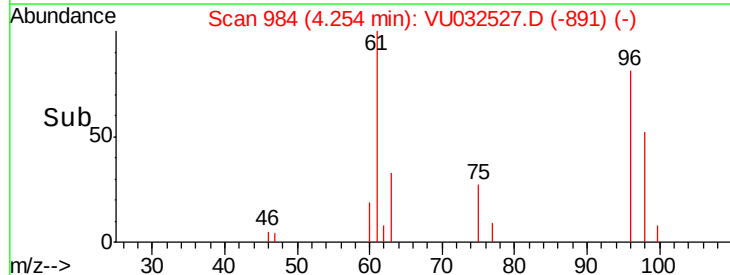
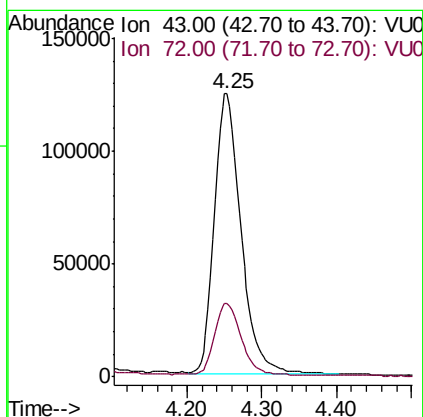
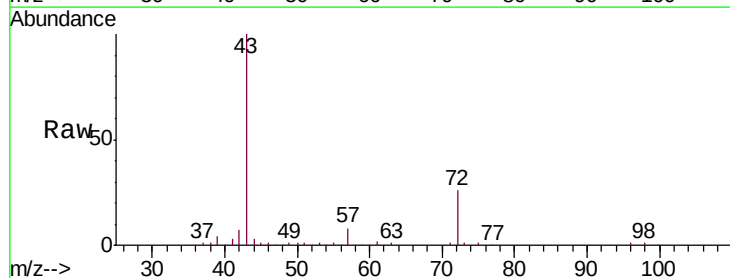
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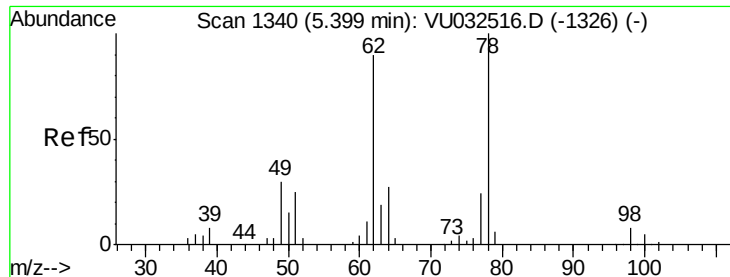
Tgt Ion: 96 Resp: 37357
 Ion Ratio Lower Upper
 96 100
 61 131.0 87.2 162.0
 68 0.0 0.0 0.0



#22
 2-Butanone
 Concen: 193.705 ug/L
 RT: 4.25 min Scan# 984
 Delta R.T. 0.00 min
 Lab File: VU032527.D
 Acq: 07 Jun 2019 03:39

Tgt Ion: 43 Resp: 308047
 Ion Ratio Lower Upper
 43 100
 72 24.7 13.1 39.3

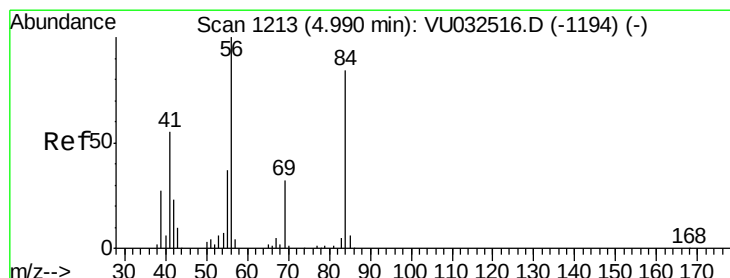
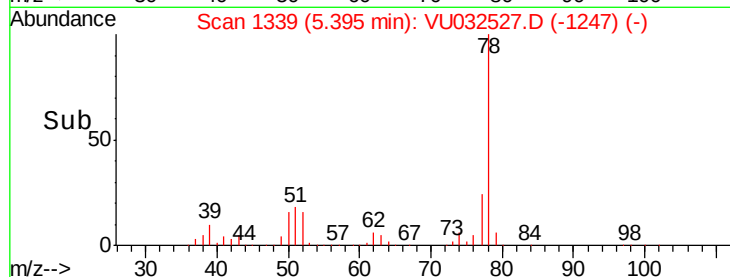
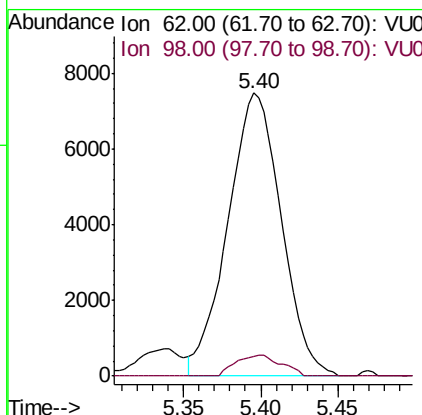
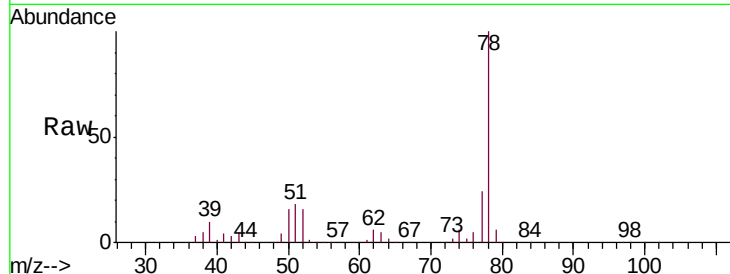




#27
 1,2-Dichloroethane
 Concen: 7.813 ug/L
 RT: 5.40 min Scan# 1339
 Delta R.T. -0.00 min
 Lab File: VU032527.D
 Acq: 07 Jun 2019 03:39

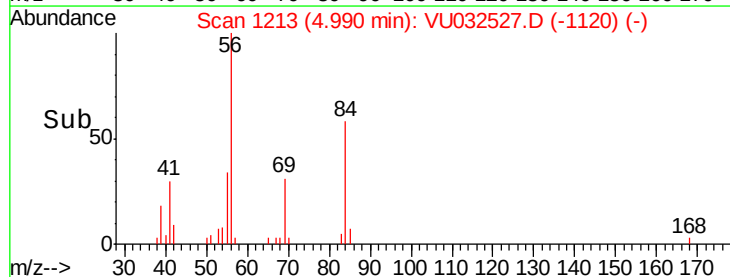
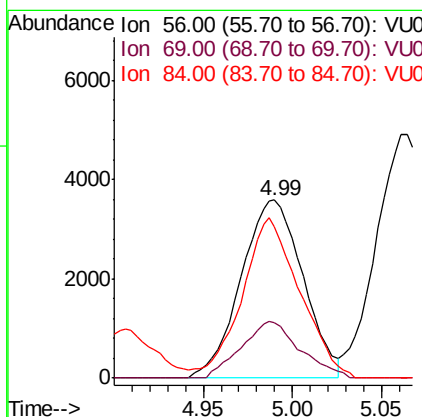
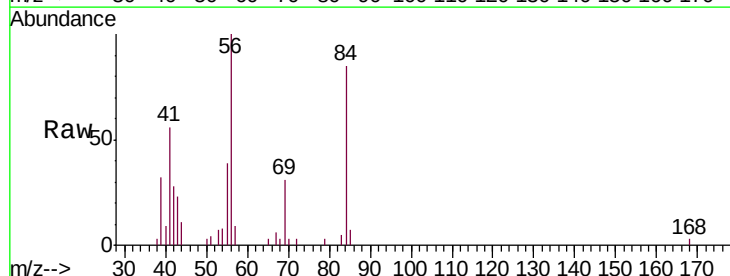
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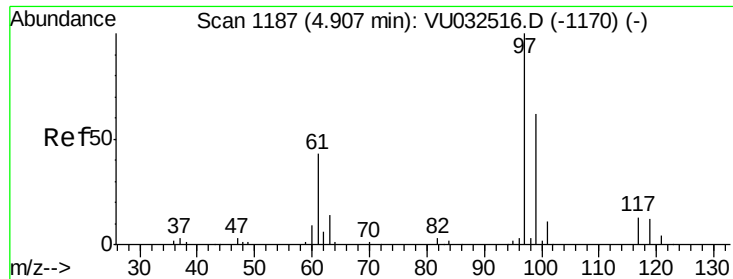
Tgt Ion: 62 Resp: 17945
 Ion Ratio Lower Upper
 62 100
 98 7.0 7.2 10.8#



#29
 Cyclohexane
 Concen: 3.006 ug/L
 RT: 4.99 min Scan# 1213
 Delta R.T. 0.00 min
 Lab File: VU032527.D
 Acq: 07 Jun 2019 03:39

Tgt Ion: 56 Resp: 8690
 Ion Ratio Lower Upper
 56 100
 69 30.2 24.7 37.1
 84 83.8 69.0 103.4

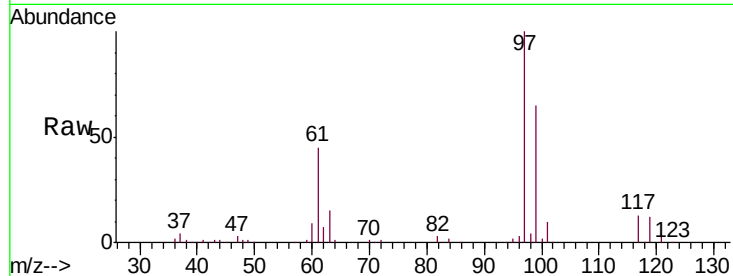




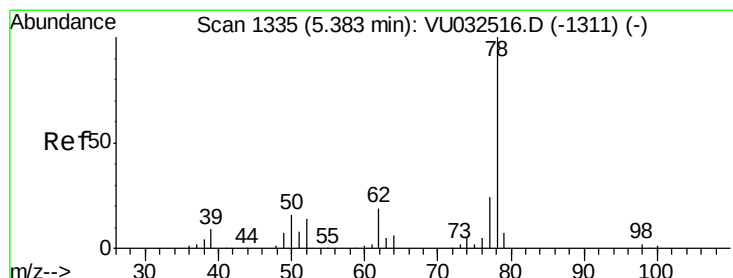
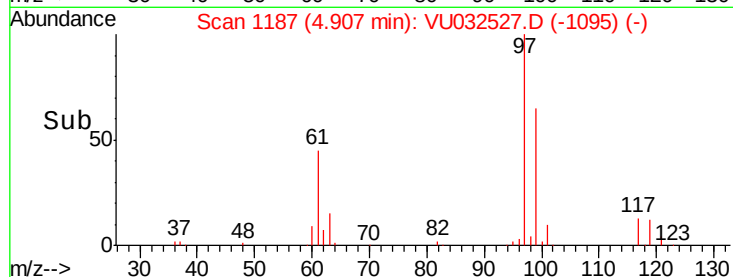
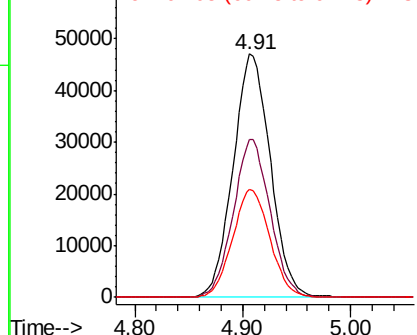
#30
 1,1,1-Trichloroethane
 Concen: 41.131 ug/L
 RT: 4.91 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: VU032527.D
 Acq: 07 Jun 2019 03:39

Instrument :
 MSVOA_U
 ClientSampleId :
 DB8H9

Tgt Ion: 97 Resp: 113174
 Ion Ratio Lower Upper
 97 100
 99 64.0 50.5 75.7
 61 44.6 33.8 50.6

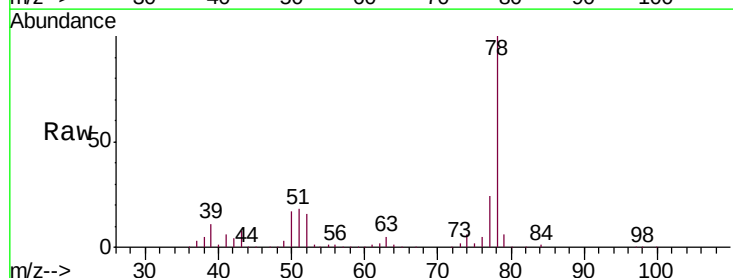


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0

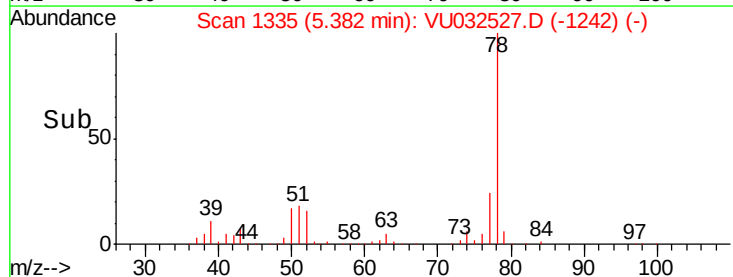
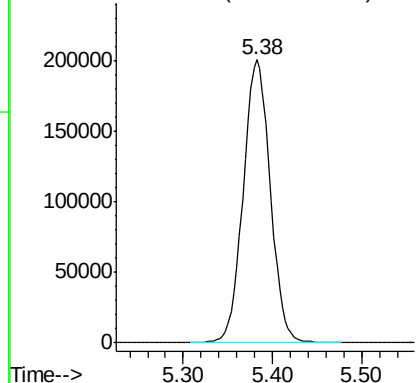


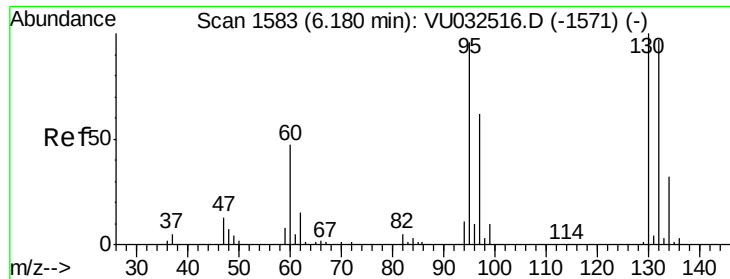
#33
 Benzene
 Concen: 61.892 ug/L
 RT: 5.38 min Scan# 1335
 Delta R.T. 0.00 min
 Lab File: VU032527.D
 Acq: 07 Jun 2019 03:39

Tgt Ion: 78 Resp: 422674



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 97.524 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032527.D

Acq: 07 Jun 2019 03:39

Instrument :

MSVOA_U

ClientSampled :

DB8H9

Tgt Ion: 95 Resp: 181198

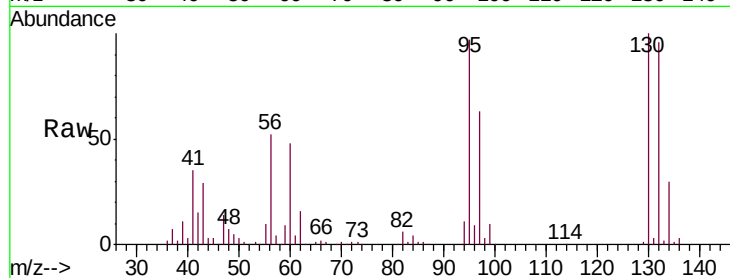
Ion Ratio Lower Upper

95 100

97 65.3 45.8 85.2

132 98.9 71.0 131.8

130 102.9 73.4 136.2

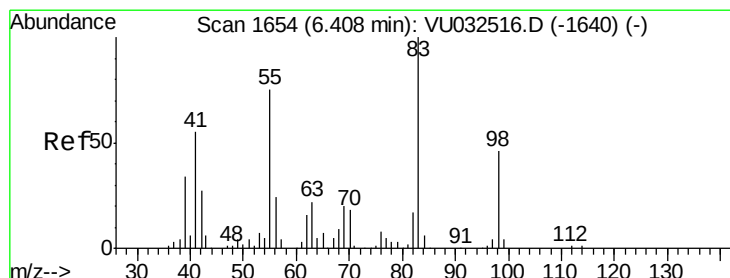
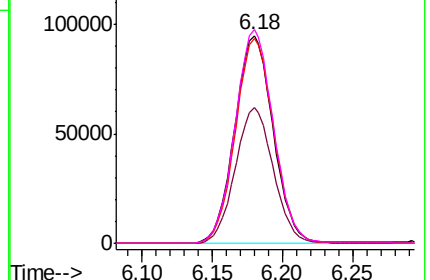
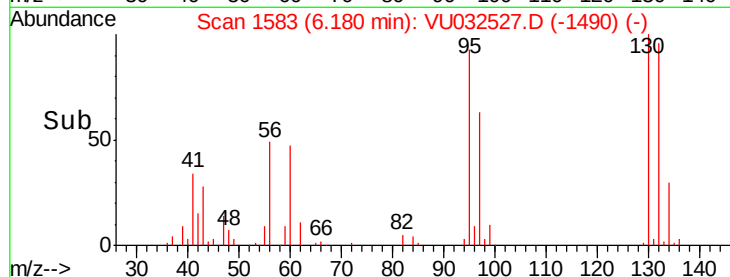


Abundance Ion 95.00 (94.70 to 95.70): VU032527.D (-1490) (-)

Ion 97.00 (96.70 to 97.70): VU032527.D (-1490) (-)

Ion 132.00 (131.70 to 132.70): VU032527.D (-1490) (-)

Ion 130.00 (129.70 to 130.70): VU032527.D (-1490) (-)



#35

Methylcyclohexane

Concen: 2.706 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU032527.D

Acq: 07 Jun 2019 03:39

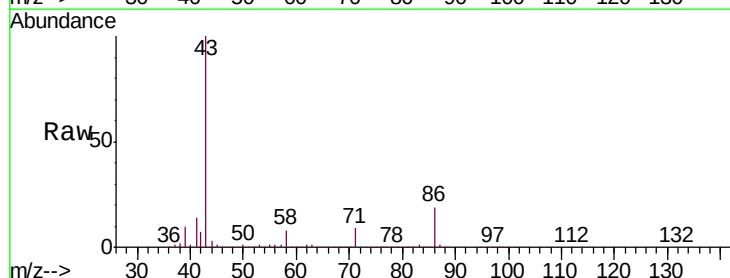
Tgt Ion: 83 Resp: 8139

Ion Ratio Lower Upper

83 100

55 218.2 60.2 90.4#

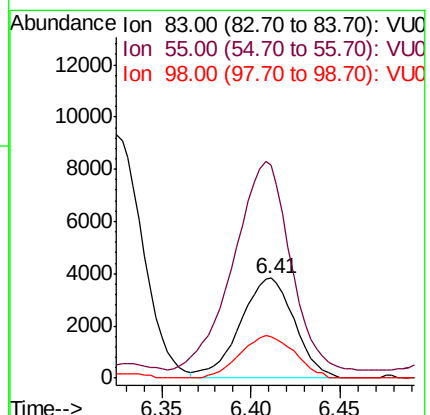
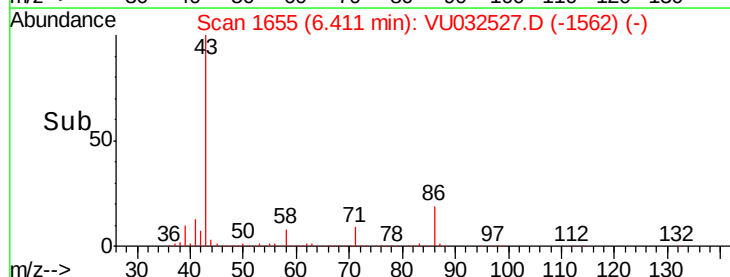
98 42.7 37.4 56.2

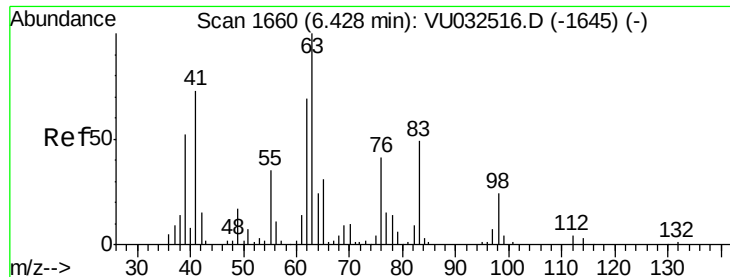


Abundance Ion 83.00 (82.70 to 83.70): VU032527.D (-1562) (-)

Ion 55.00 (54.70 to 55.70): VU032527.D (-1562) (-)

Ion 98.00 (97.70 to 98.70): VU032527.D (-1562) (-)

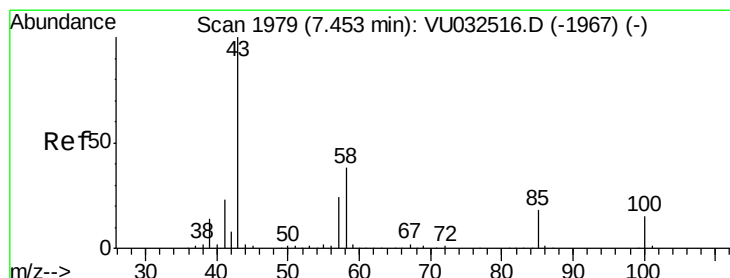
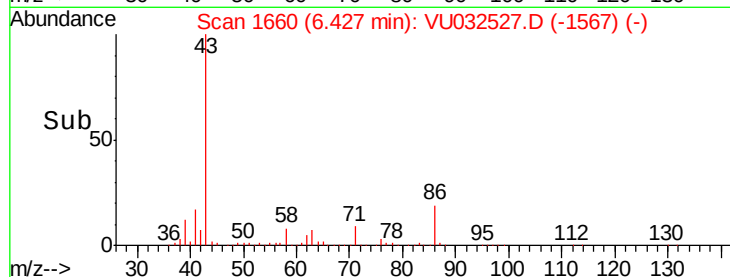
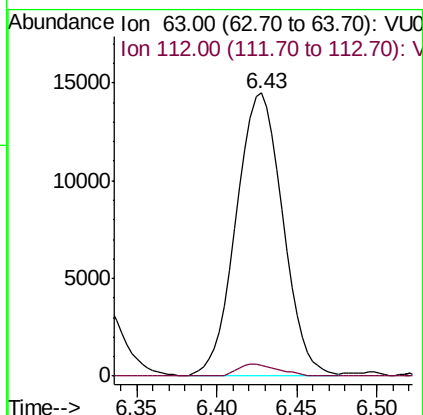
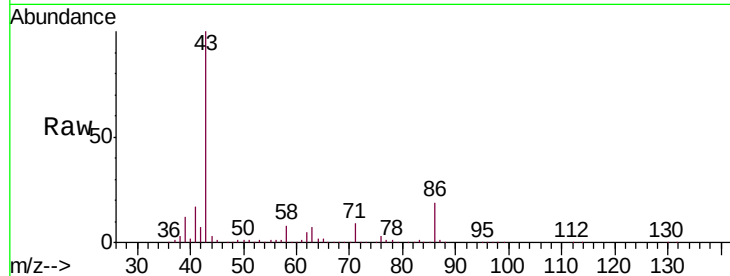




#37
 1,2-Dichloropropane
 Concen: 15.969 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032527.D
 Acq: 07 Jun 2019 03:39

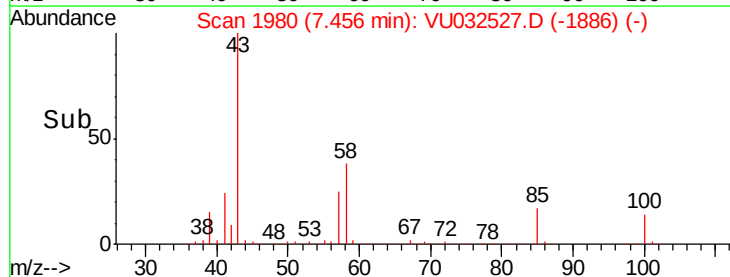
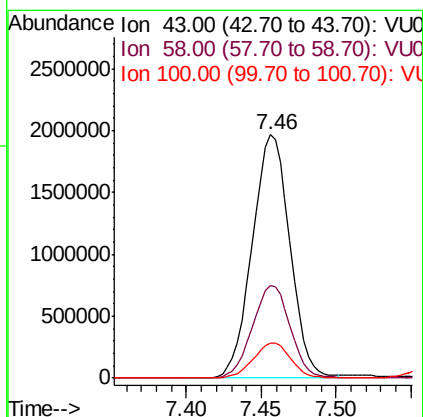
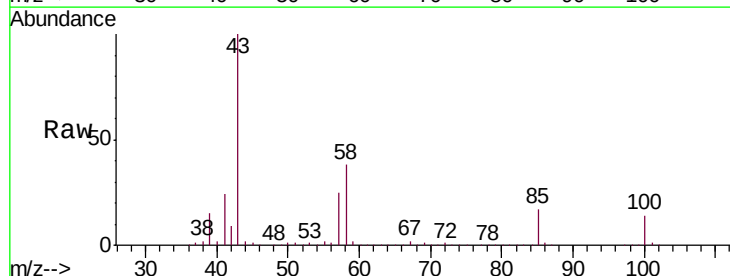
Instrument :
 MSVOA_U
 ClientSampleId :
 DB8H9

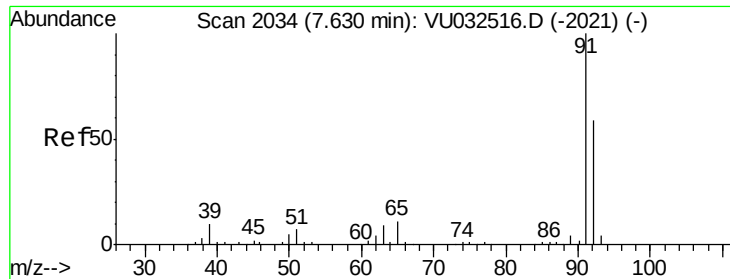
Tgt Ion: 63 Resp: 28909
 Ion Ratio Lower Upper
 63 100
 112 3.6 3.1 4.7



#40
 4-Methyl-2-pentanone
 Concen: 1185.427 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032527.D
 Acq: 07 Jun 2019 03:39

Tgt Ion: 43 Resp: 3452437
 Ion Ratio Lower Upper
 43 100
 58 38.4 30.8 46.2
 100 14.5 12.1 18.1





#42

Toluene

Concen: 302.096 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032527.D

Acq: 07 Jun 2019 03:39

Instrument :

MSVOA_U

ClientSampleId :

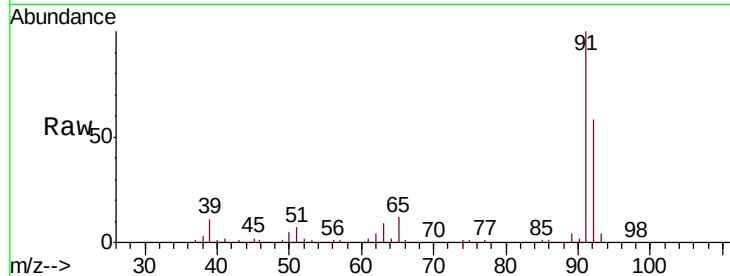
DB8H9

Tgt Ion: 91 Resp: 2259411

Ion Ratio Lower Upper

91 100

92 58.0 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU032516.D (-2021) (-)

Ion 92.00 (91.70 to 92.70): VU032516.D (-2021) (-)

7.63

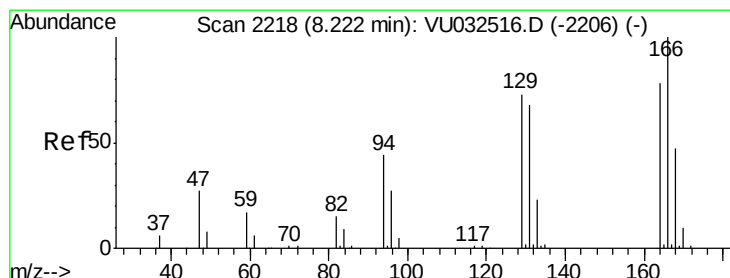
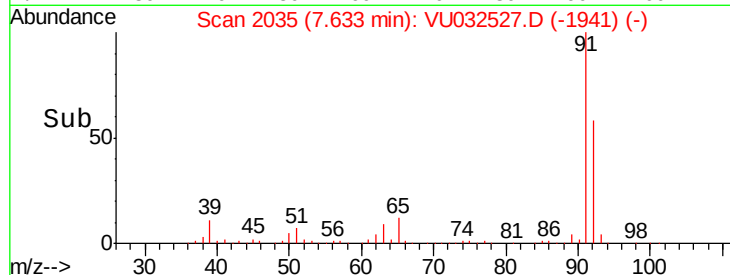
1500000

1000000

500000

0

Time-->



#46

Tetrachloroethene

Concen: 21.272 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU032527.D

Acq: 07 Jun 2019 03:39

Tgt Ion: 164 Resp: 32643

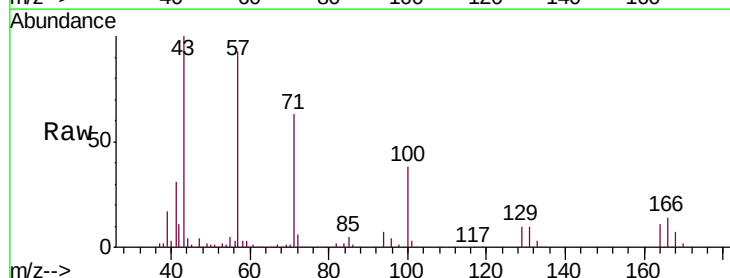
Ion Ratio Lower Upper

164 100

129 92.6 65.3 121.3

131 91.3 64.0 119.0

166 123.2 88.8 165.0



Abundance Ion 164.00 (163.70 to 164.70): VU032516.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VU032516.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VU032516.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VU032516.D (-2206) (-)

8.22

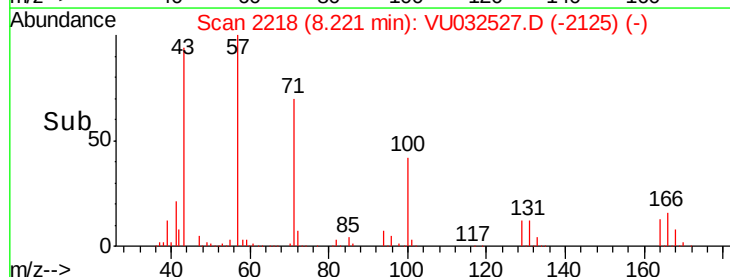
30000

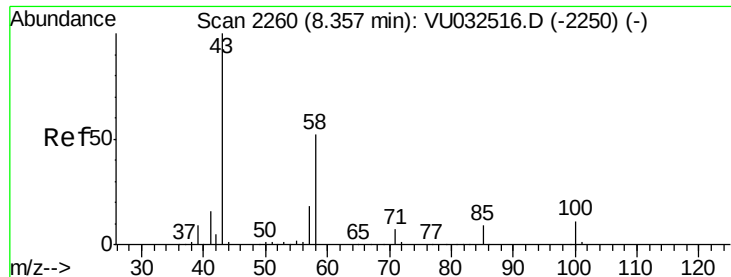
20000

10000

0

Time-->

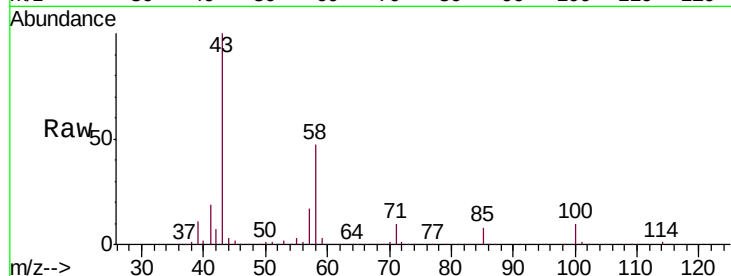




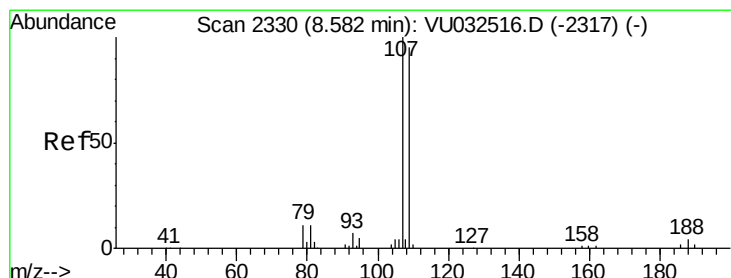
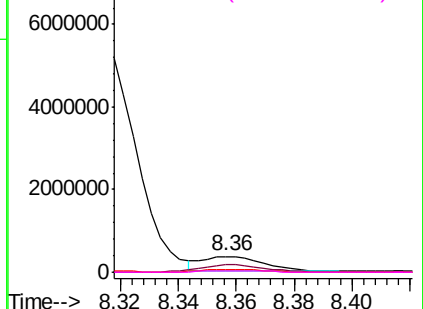
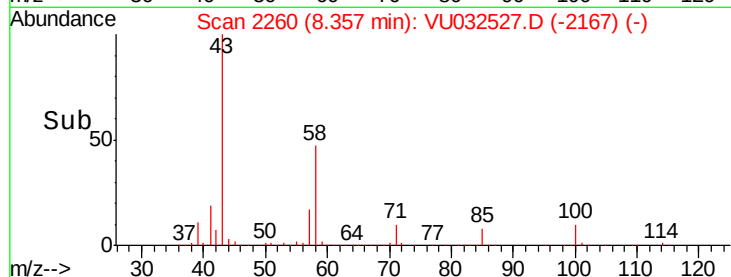
#48
2-Hexanone
Concen: 208.555 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU032527.D
Acq: 07 Jun 2019 03:39

Instrument :
MSVOA_U
ClientSampleId :
DB8H9

Tgt Ion: 43 Resp: 498885
Ion Ratio Lower Upper
43 100
58 58.6 42.0 63.0
57 20.2 14.6 22.0
100 12.6 9.2 13.8

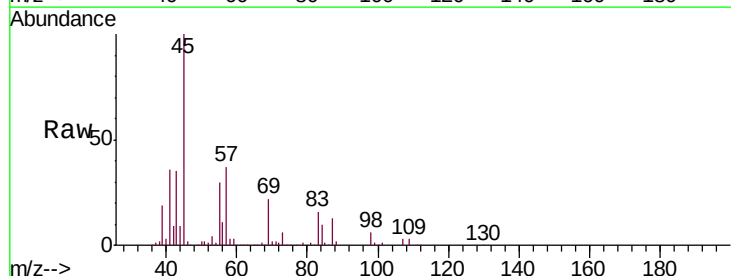


Abundance Ion 43.00 (42.70 to 43.70): VU032527.D (-2167) (-)
Ion 58.00 (57.70 to 58.70): VU032527.D (-2167) (-)
Ion 57.00 (56.70 to 57.70): VU032527.D (-2167) (-)
Ion 100.00 (99.70 to 100.70): VU032527.D (-2167) (-)

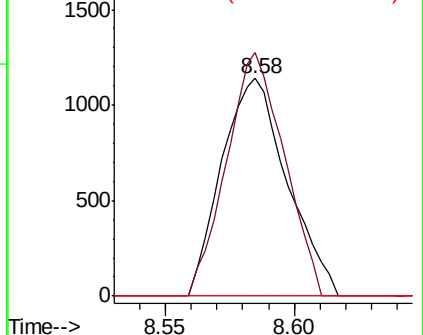
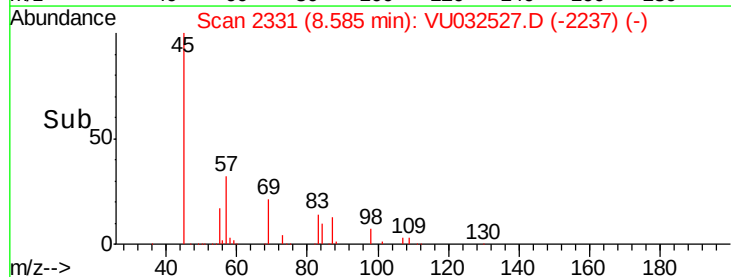


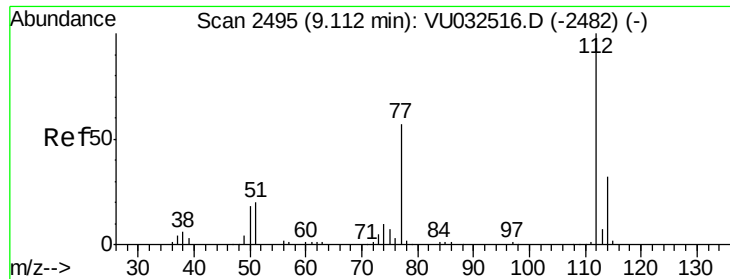
#50
1,2-Dibromoethane
Concen: 1.044 ug/L
RT: 8.58 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU032527.D
Acq: 07 Jun 2019 03:39

Tgt Ion: 107 Resp: 2011
Ion Ratio Lower Upper
107 100
109 111.9 66.8 124.0
188 0.0 3.1 4.7#



Abundance Ion 107.00 (106.70 to 107.70): VU032527.D (-2237) (-)
Ion 109.00 (108.70 to 109.70): VU032527.D (-2237) (-)
Ion 188.00 (187.70 to 188.70): VU032527.D (-2237) (-)





#51

Chlorobenzene

Concen: 3.713 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU032527.D

Acq: 07 Jun 2019 03:39

Instrument :

MSVOA_U

ClientSampleId :

DB8H9

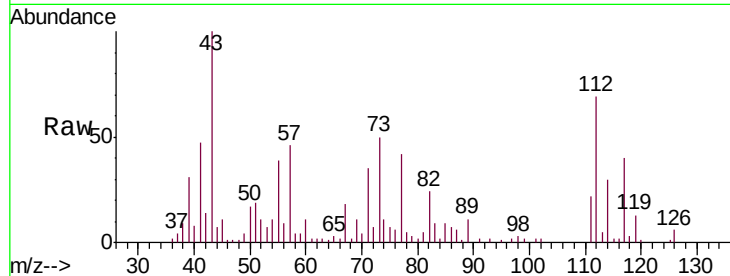
Tgt Ion: 112 Resp: 17889

Ion Ratio Lower Upper

112 100

114 43.8 22.6 42.0#

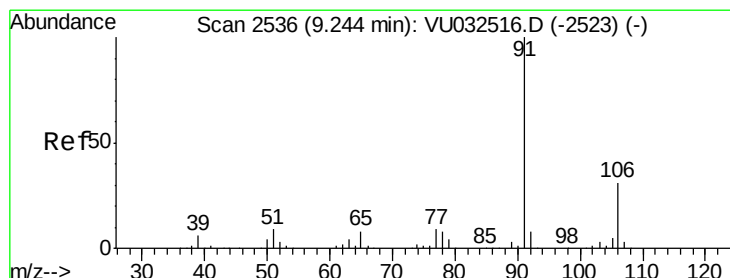
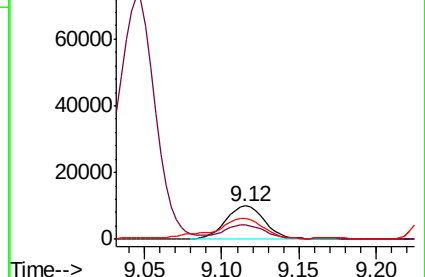
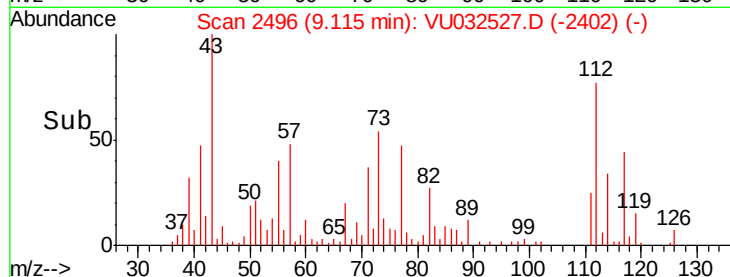
77 60.7 46.1 69.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 57.629 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032527.D

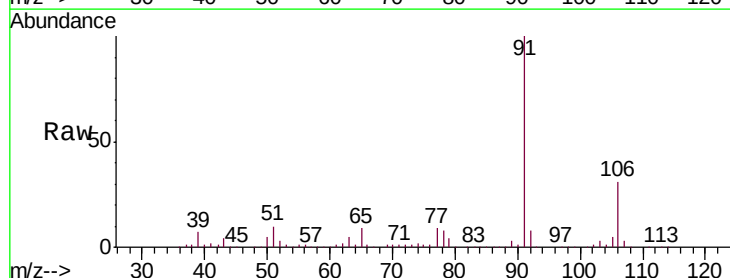
Acq: 07 Jun 2019 03:39

Tgt Ion: 91 Resp: 480435

Ion Ratio Lower Upper

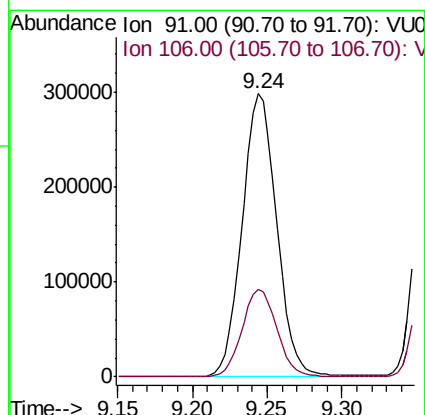
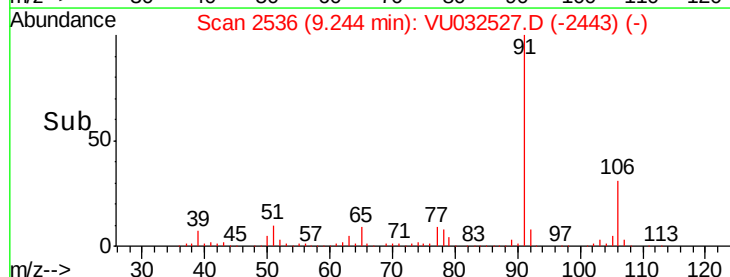
91 100

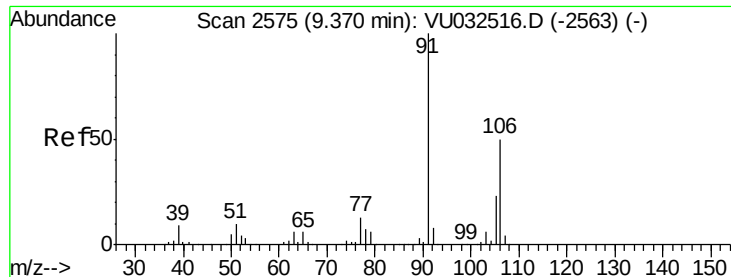
106 31.1 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 210.415 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032527.D

Acq: 07 Jun 2019 03:39

Instrument :

MSVOA_U

ClientSampled :

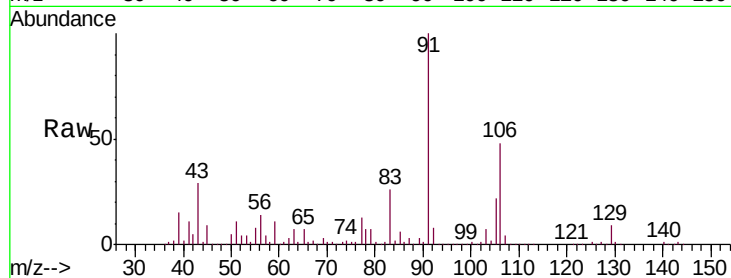
DB8H9

Tgt Ion:106 Resp: 667024

Ion Ratio Lower Upper

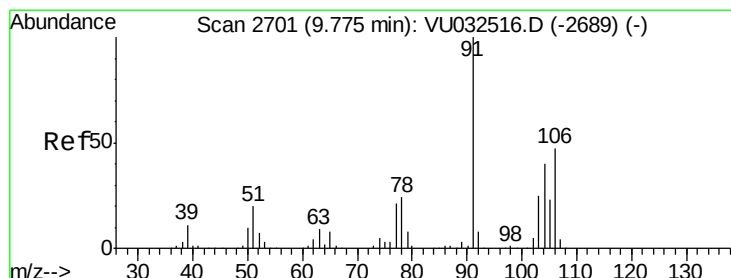
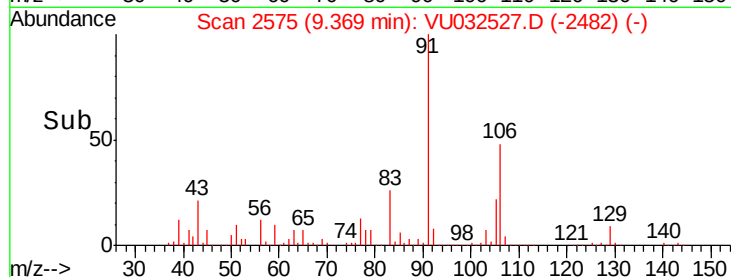
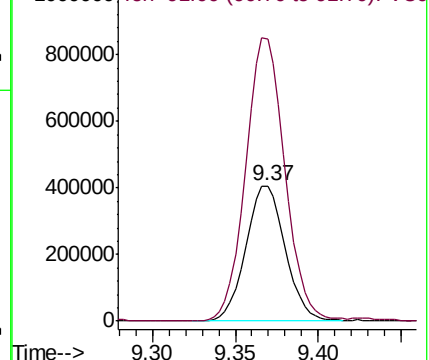
106 100

91 208.6 141.7 263.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 186.817 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032527.D

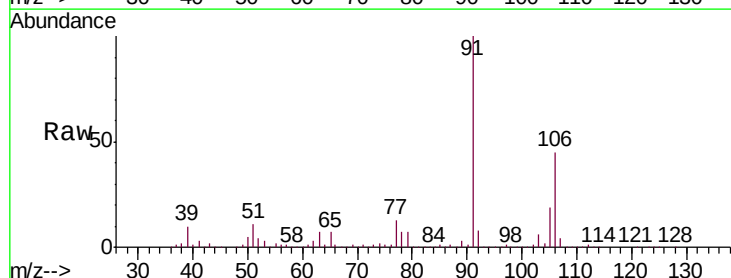
Acq: 07 Jun 2019 03:39

Tgt Ion:106 Resp: 588002

Ion Ratio Lower Upper

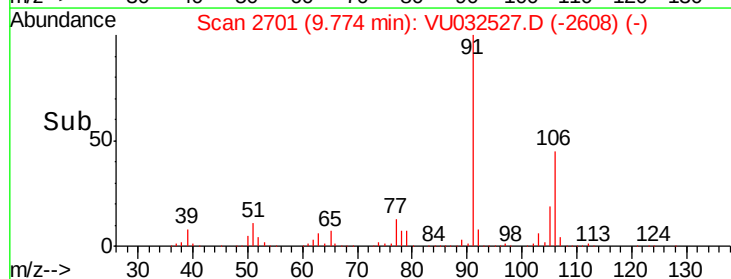
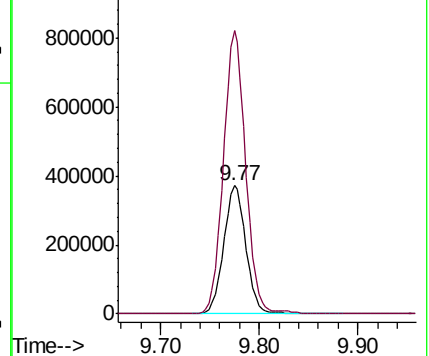
106 100

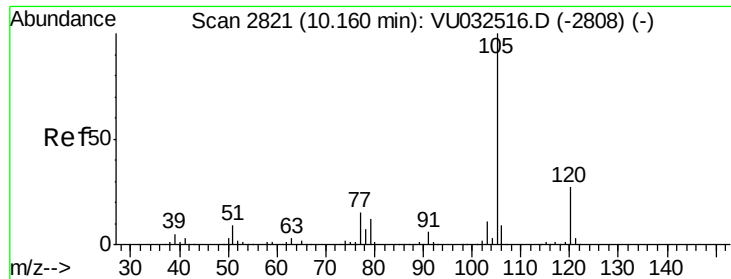
91 221.0 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 22.597 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032527.D

Acq: 07 Jun 2019 03:39

Instrument :

MSVOA_U

ClientSampleId :

DB8H9

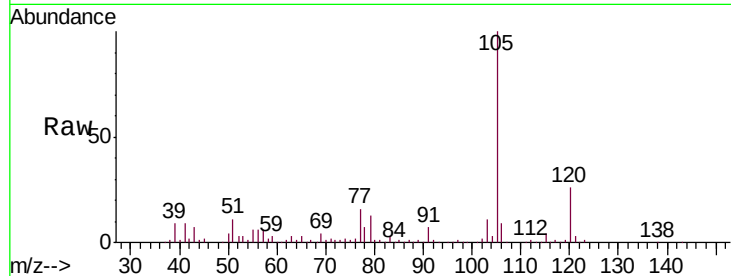
Tgt Ion:105 Resp: 187544

Ion Ratio Lower Upper

105 100

120 26.3 21.6 32.4

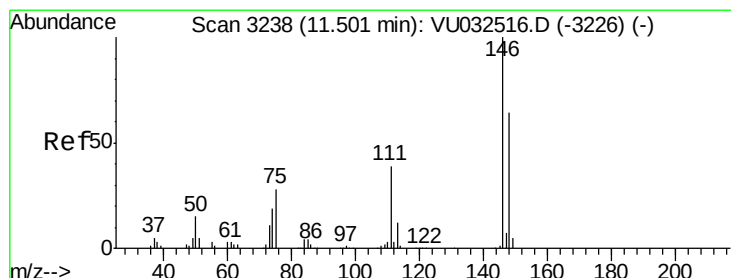
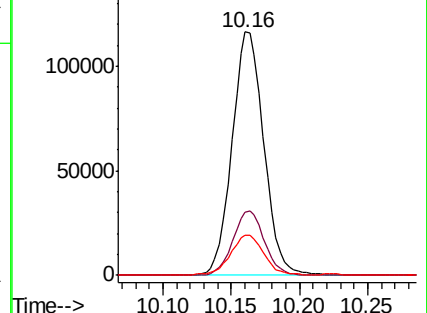
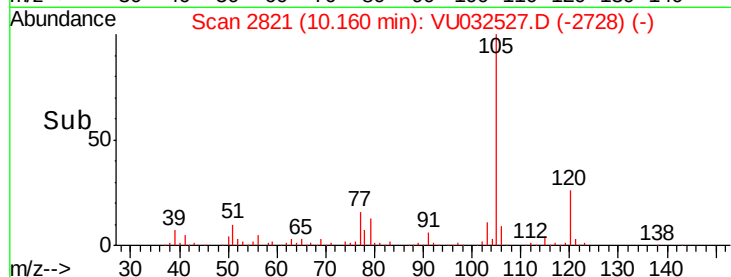
77 17.0 12.4 18.6



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): VU0



#63

1,4-Dichlorobenzene

Concen: 0.726 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032527.D

Acq: 07 Jun 2019 03:39

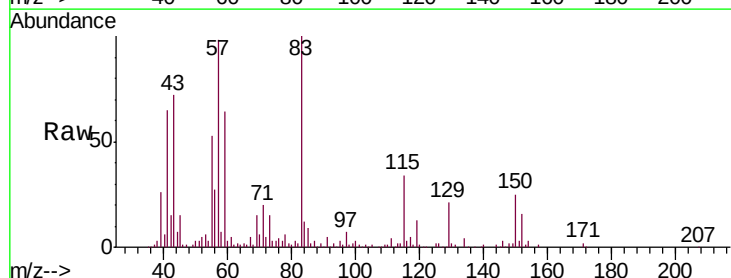
Tgt Ion:146 Resp: 3214

Ion Ratio Lower Upper

146 100

111 111.3 26.6 49.4#

148 69.4 44.9 83.5



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

