

Data File : VV012005.D
Acq On : 24 Jul 2019 12:34
Operator : SY/MD
Sample : K3890-12DL 4X
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A52U4DL

Quant Time: Jul 25 04:15:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Jul 25 04:12:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	139410	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	130764	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	67580	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	32088	4.43	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.60%
7) Chloroethane-d5	1.59	69	28639	5.02	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.40%
11) 1,1-Dichloroethene-d2	2.13	63	55893	3.88	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	77.60%
20) 2-Butanone-d5	3.97	46	111988	52.88	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.76%
24) Chloroform-d	4.40	84	90506	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
26) 1,2-Dichloroethane-d4	5.08	65	52841	5.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.00%
32) Benzene-d6	5.10	84	189181	5.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.80%
36) 1,2-Dichloropropane-d6	6.12	67	54506	5.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.40%
41) Toluene-d8	7.36	98	171929	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.60%
43) trans-1,3-Dichloropropene-	7.67	79	21305	5.03	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.60%
46) 2-Hexanone-d5	8.14	63	91307	53.68	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.36%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	38977	5.25	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.00%
64) 1,2-Dichlorobenzene-d4	11.67	152	69486	5.34	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.80%

Target Compounds

					Qvalue
6) Bromomethane	1.54	94	2408	0.478 ug/L	78
12) 1,1-Dichloroethene	2.14	96	3702	0.583 ug/L	# 1
13) Acetone	2.21	43	19494	17.075 ug/L	88
14) Carbon disulfide	2.32	76	34232	1.893 ug/L	98
15) Methyl Acetate	2.47	43	22427	8.998 ug/L	97
16) Methylene chloride	2.54	84	9703	1.364 ug/L	89
17) Methyl tert-butyl Ether	2.81	73	60825	2.809 ug/L	98
21) 2-Butanone	4.05	43	19658	8.976 ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	16053	1.512 ug/L	92
25) Chloroform	4.43	83	10677	0.507 ug/L	97
27) 1,2-Dichloroethane	5.18	62	15994	1.365 ug/L	98
30) Cyclohexane	4.72	56	41103	2.600 ug/L	100
33) Benzene	5.15	78	51164	1.330 ug/L	100
34) Trichloroethene	5.96	95	9690	0.907 ug/L	96
35) Methylcyclohexane	6.18	83	83756	5.038 ug/L	96
40) 4-Methyl-2-pentanone	7.28	43	34213	6.622 ug/L	98
42) Toluene	7.43	91	170595	4.132 ug/L	99

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Response via : Initial Calibration

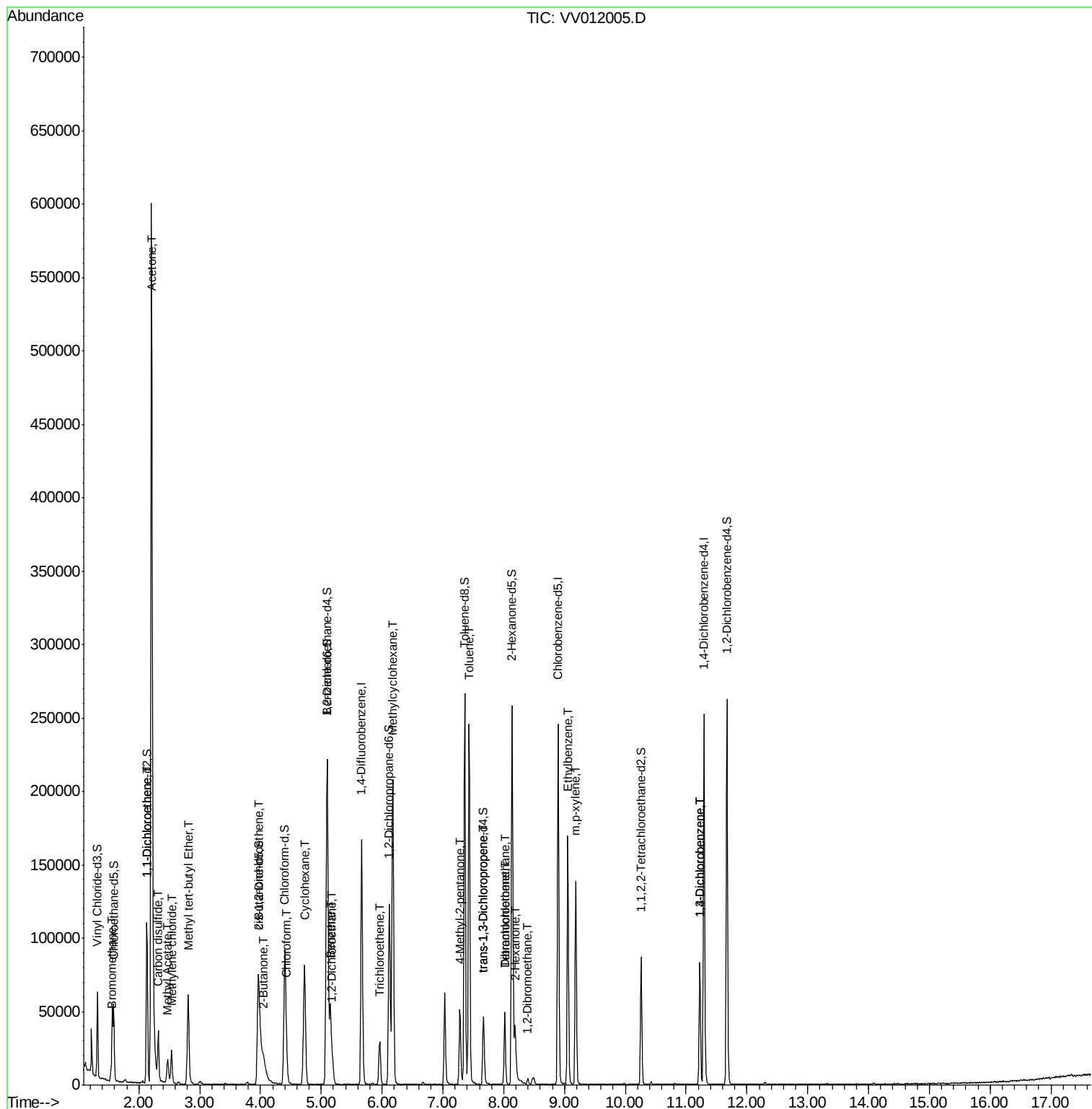
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	7.67	75	1224	0.112	ug/L	93
47) Tetrachloroethene	8.02	164	10672	1.158	ug/L	97
48) 2-Hexanone	8.19	43	23351	6.442	ug/L	99
49) Dibromochloromethane	8.02	129	9494	1.214	ug/L #	10
50) 1,2-Dibromoethane	8.40	107	3053	0.506	ug/L #	93
52) Ethylbenzene	9.05	91	114098	2.421	ug/L	99
53) m,p-xylene	9.19	106	37182	2.073	ug/L	95
62) 1,3-Dichlorobenzene	11.22	146	34329	1.553	ug/L	97
63) 1,4-Dichlorobenzene	11.22	146	34329	1.509	ug/L	100

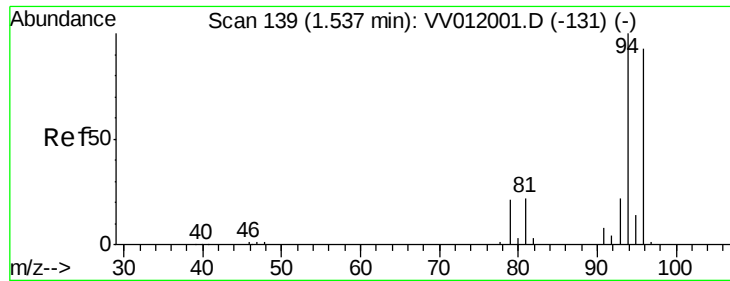
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Bromomethane

Concen: 0.478 ug/L

RT: 1.54 min Scan# 140

Delta R.T. 0.00 min

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Acq: 24 Jul 2019 12:34

Instrument :

MSVOA_V

ClientSampleId :

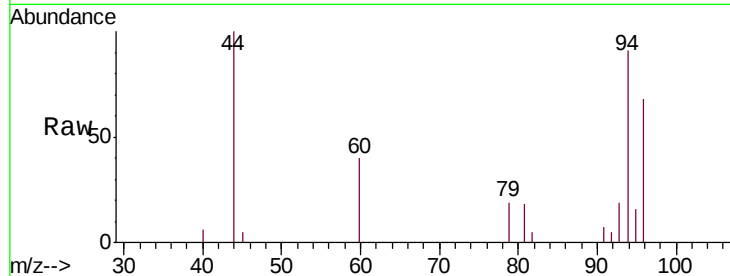
A52U4DL

Tgt Ion: 94 Resp: 2408

Ion Ratio Lower Upper

94 100

96 74.8 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.54

2000

1500

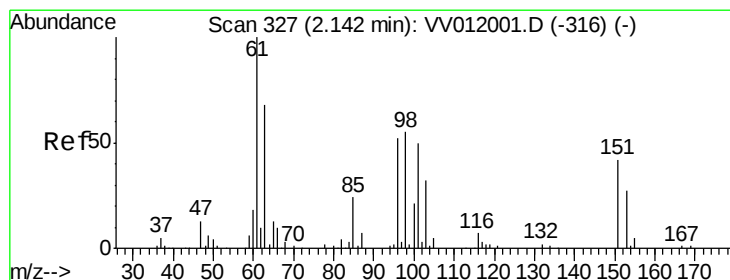
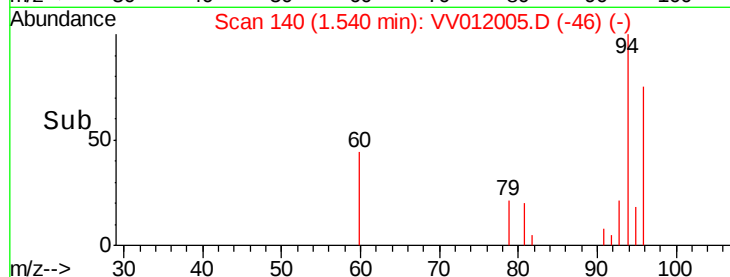
1000

500

0

Time-->

1.50 1.52 1.54 1.56 1.58



#12

1,1-Dichloroethene

Concen: 0.583 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012005.D

Acq: 24 Jul 2019 12:34

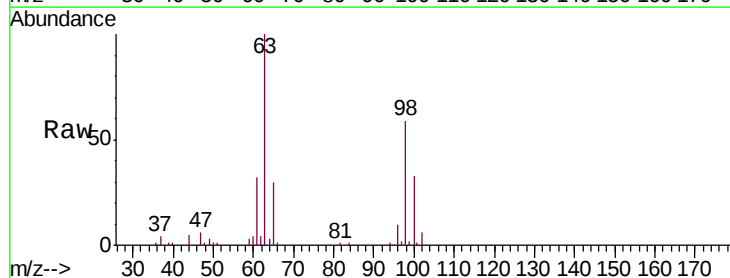
Tgt Ion: 96 Resp: 3702

Ion Ratio Lower Upper

96 100

61 306.1 132.7 246.5#

63 961.3 104.0 193.1#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

50000

40000

30000

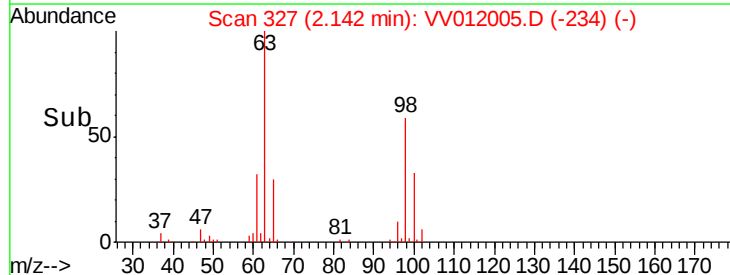
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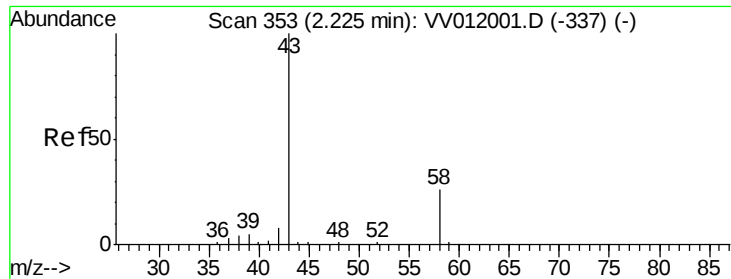
10000

0

Time-->

2.10 2.15





#13

Acetone

Concen: 17.075 ug/L

RT: 2.21 min Scan# 348

Delta R.T. -0.02 min

Lab File: VV012005.D

Acq: 24 Jul 2019 12:34

Instrument :

MSVOA_V

ClientSampleId :

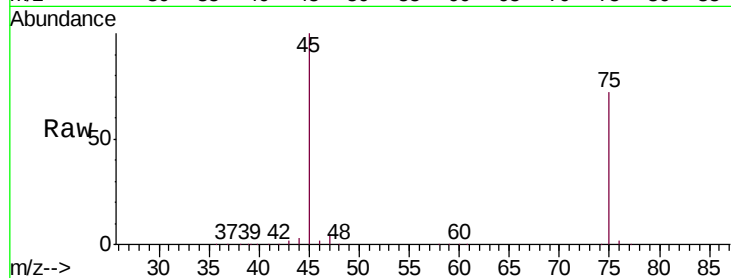
A52U4DL

Tgt Ion: 43 Resp: 19494

Ion Ratio Lower Upper

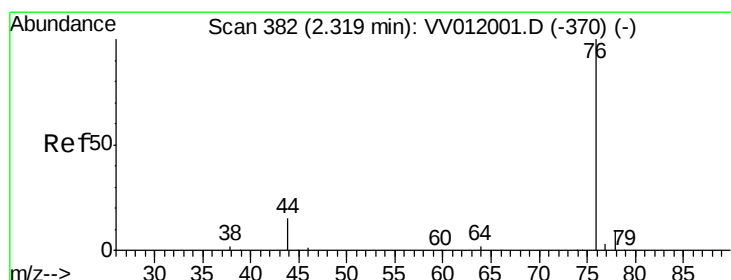
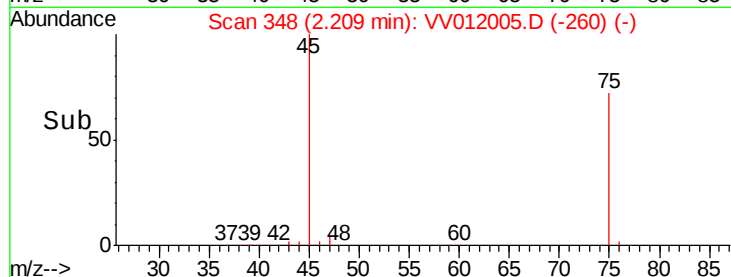
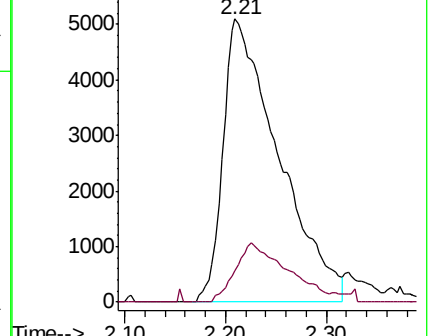
43 100

58 19.6 0.0 51.8



Abundance Ion 43.05 (42.75 to 43.75): VV012001.D (-337) (-)

Ion 58.05 (57.75 to 58.75): VV012001.D (-337) (-)



#14

Carbon disulfide

Concen: 1.893 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV012005.D

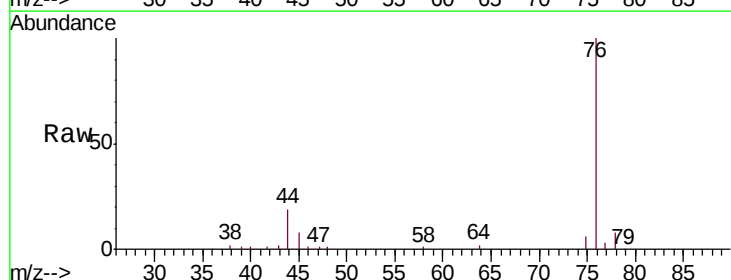
Acq: 24 Jul 2019 12:34

Tgt Ion: 76 Resp: 34232

Ion Ratio Lower Upper

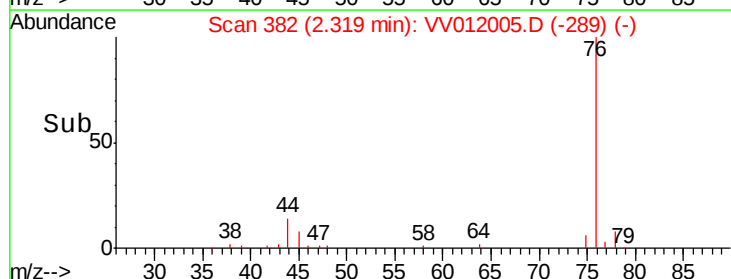
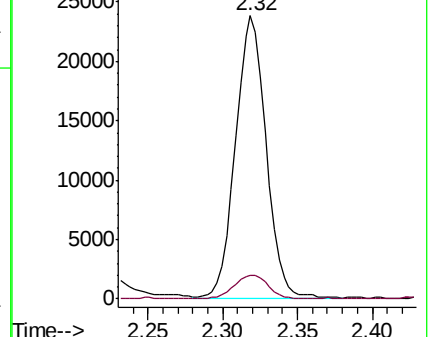
76 100

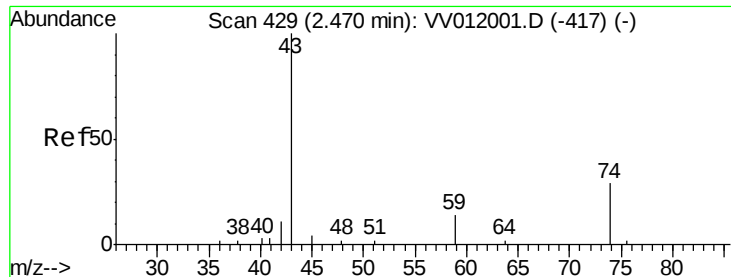
78 8.3 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VV012001.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV012001.D (-370) (-)

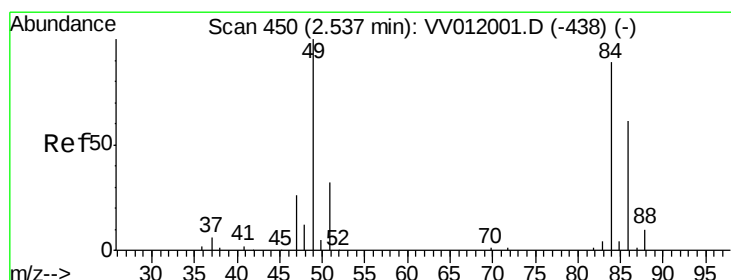
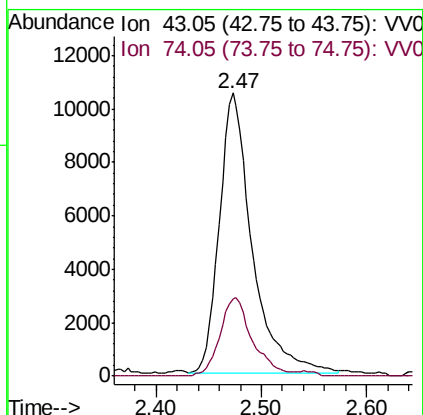
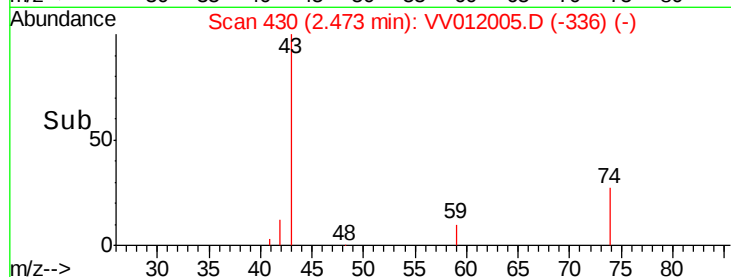
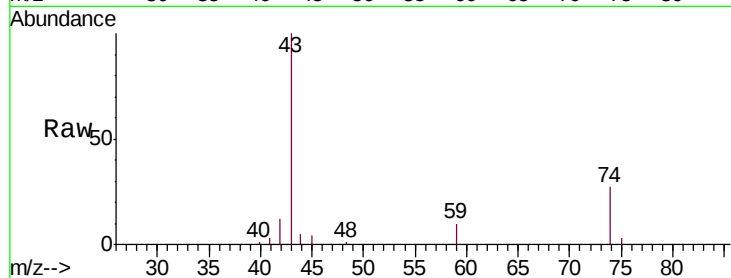




#15
Methyl Acetate
Concen: 8.998 ug/L
RT: 2.47 min Scan# 430
Delta R.T. 0.00 min
Lab File: VV012005.D
Acq: 24 Jul 2019 12:34

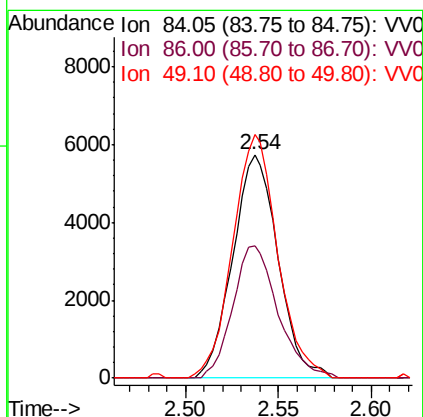
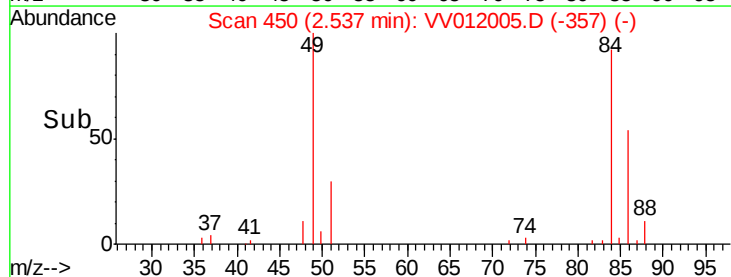
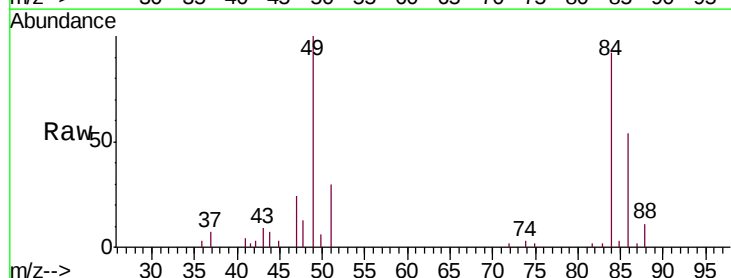
Instrument :
MSVOA_V
ClientSampleId :
A52U4DL

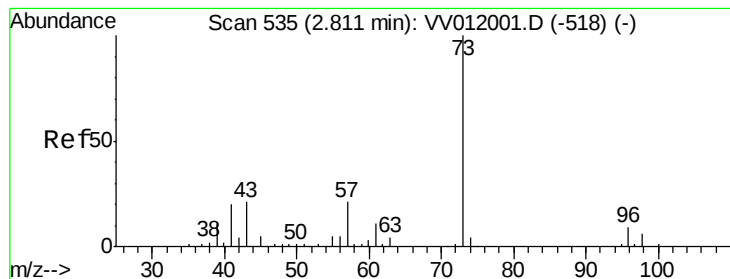
Tgt Ion: 43 Resp: 22427
Ion Ratio Lower Upper
43 100
74 27.8 23.4 35.2



#16
Methylene chloride
Concen: 1.364 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012005.D
Acq: 24 Jul 2019 12:34

Tgt Ion: 84 Resp: 9703
Ion Ratio Lower Upper
84 100
86 59.2 47.6 88.4
49 109.0 84.3 156.5





#17

Methyl tert-butyl Ether

Concen: 2.809 ug/L

RT: 2.81 min Scan# 535

Delta R.T. 0.00 min

Lab File: VV012005.D

Acq: 24 Jul 2019 12:34

Instrument :

MSVOA_V

ClientSampleId :

A52U4DL

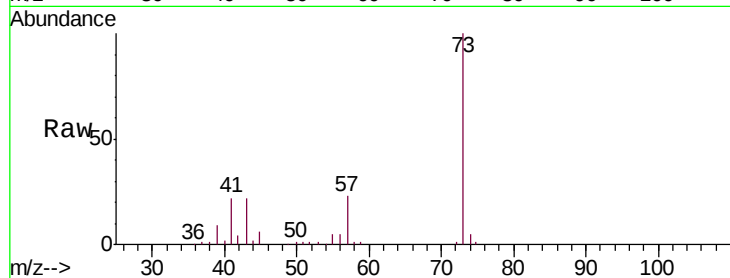
Tgt Ion: 73 Resp: 60825

Ion Ratio Lower Upper

73 100

43 22.5 17.0 25.4

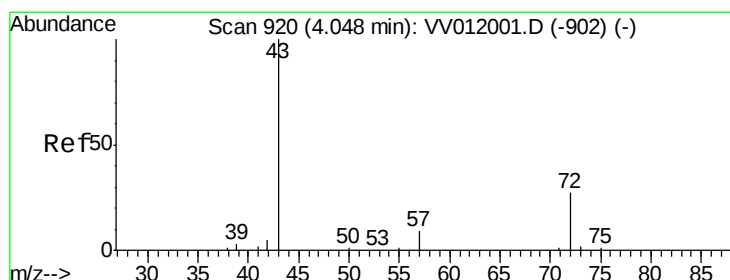
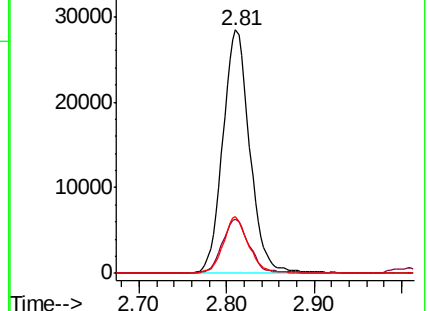
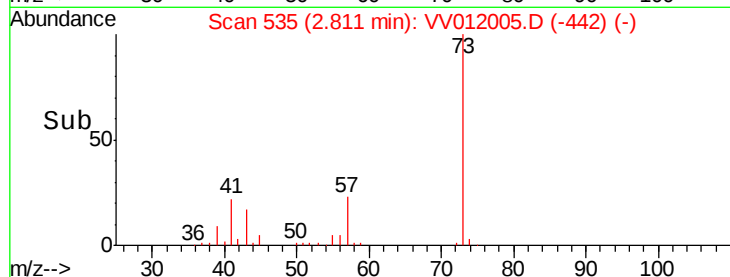
57 21.5 17.0 25.6



Abundance Ion 73.10 (72.80 to 73.80): VV012005.D (-442) (-)

Ion 43.05 (42.75 to 43.75): VV012005.D (-442) (-)

Ion 57.10 (56.80 to 57.80): VV012005.D (-442) (-)



#21

2-Butanone

Concen: 8.976 ug/L

RT: 4.05 min Scan# 921

Delta R.T. 0.00 min

Lab File: VV012005.D

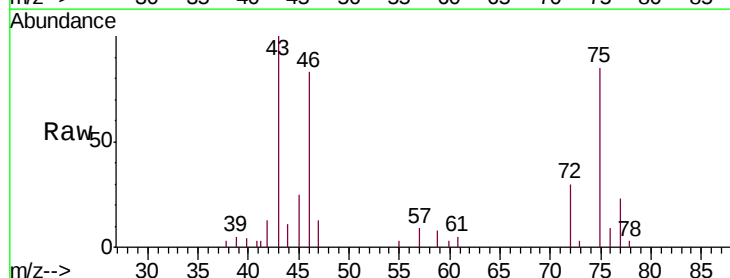
Acq: 24 Jul 2019 12:34

Tgt Ion: 43 Resp: 19658

Ion Ratio Lower Upper

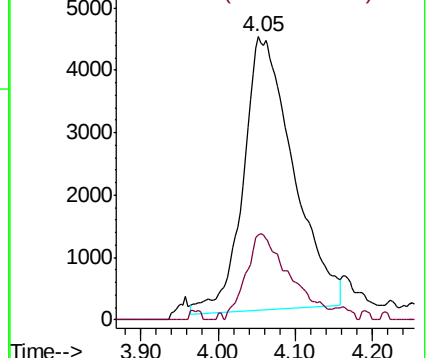
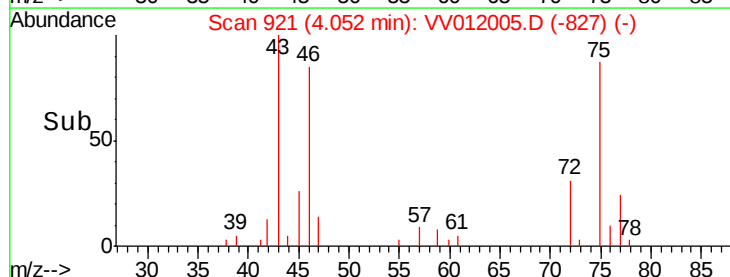
43 100

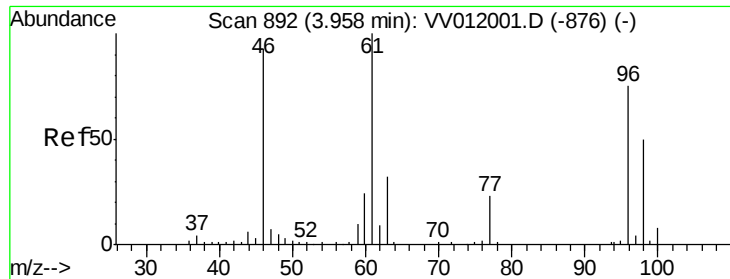
72 27.9 13.6 40.8



Abundance Ion 43.05 (42.75 to 43.75): VV012005.D (-827) (-)

Ion 72.10 (71.80 to 72.80): VV012005.D (-827) (-)

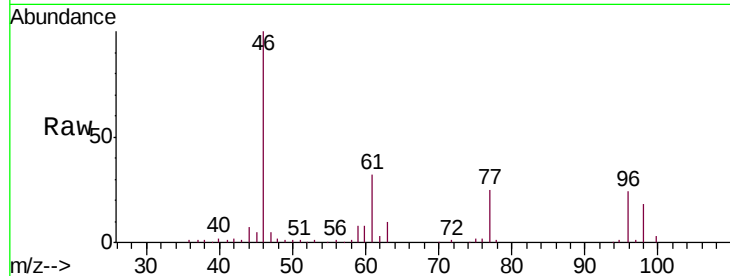




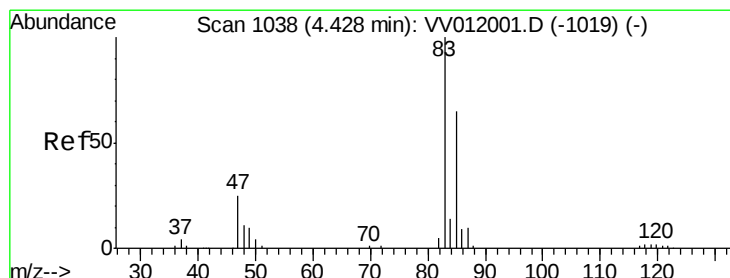
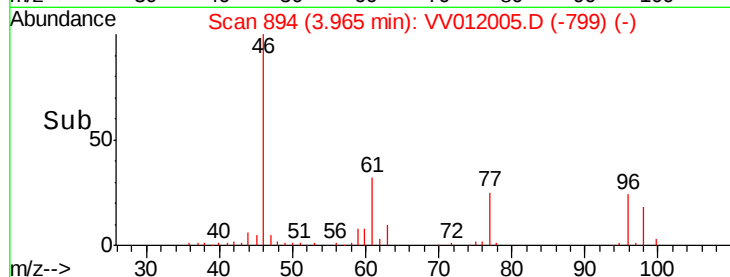
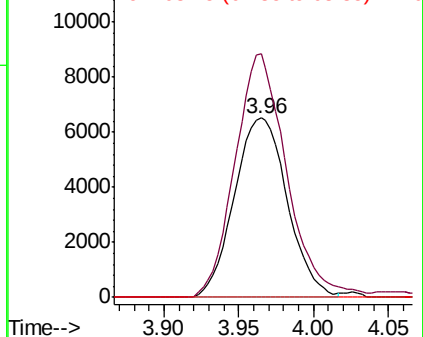
#22
 cis-1,2-Dichloroethene
 Concen: 1.512 ug/L
 RT: 3.96 min Scan# 894
 Delta R.T. 0.01 min
 Lab File: VV012005.D
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Tgt Ion: 96 Resp: 16053
 Ion Ratio Lower Upper
 96 100
 61 135.9 89.0 165.2
 68 0.0 0.0 0.0

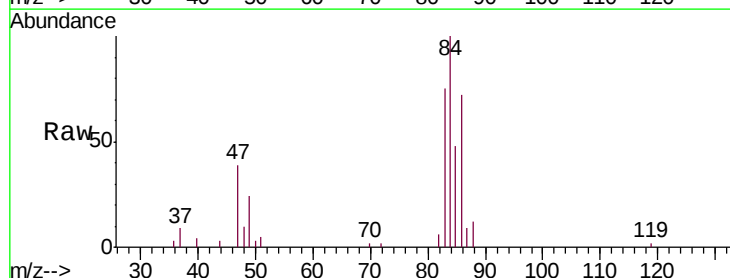


Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0

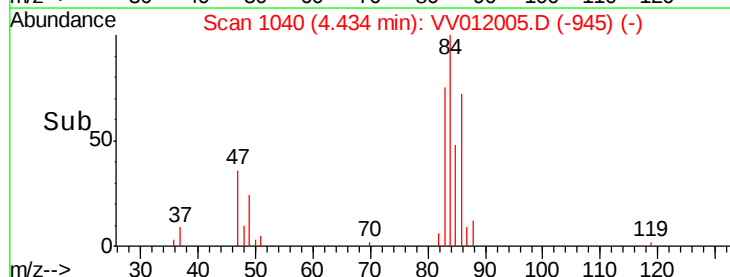
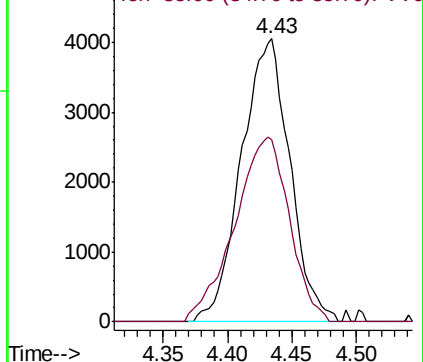


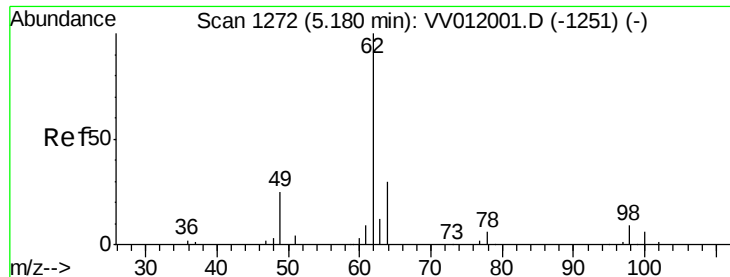
#25
 Chloroform
 Concen: 0.507 ug/L
 RT: 4.43 min Scan# 1040
 Delta R.T. 0.01 min
 Lab File: VV012005.D
 Acq: 24 Jul 2019 12:34

Tgt Ion: 83 Resp: 10677
 Ion Ratio Lower Upper
 83 100
 85 64.3 46.5 86.3



Abundance Ion 83.05 (82.75 to 83.75): VV0
 Ion 85.00 (84.70 to 85.70): VV0

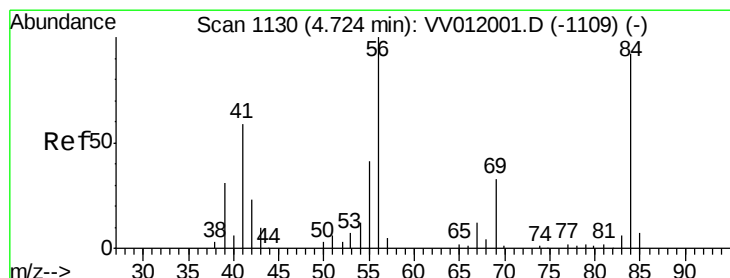
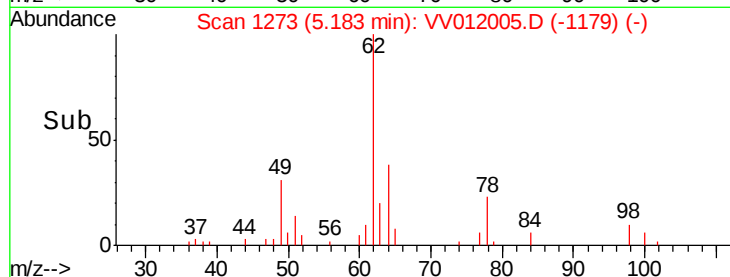
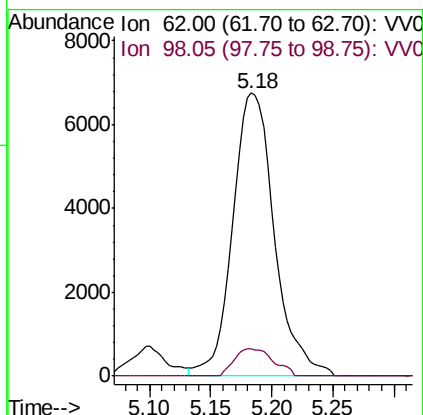
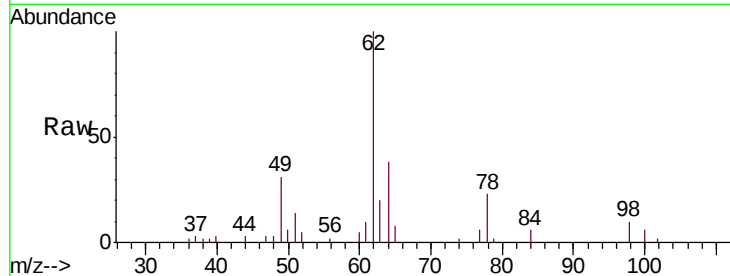




#27
 1,2-Dichloroethane
 Concen: 1.365 ug/L
 RT: 5.18 min Scan# 1273
 Delta R.T. 0.00 min
 Lab File: VV012005.D
 Acq: 24 Jul 2019 12:34

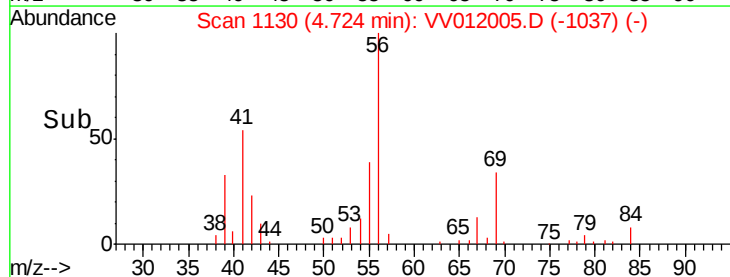
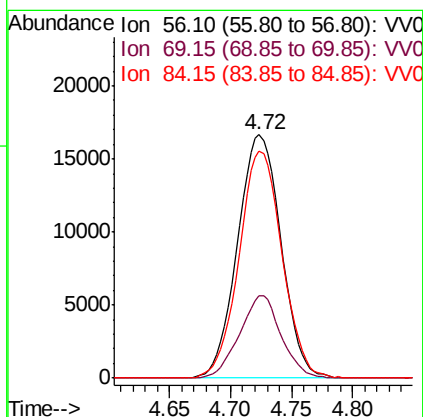
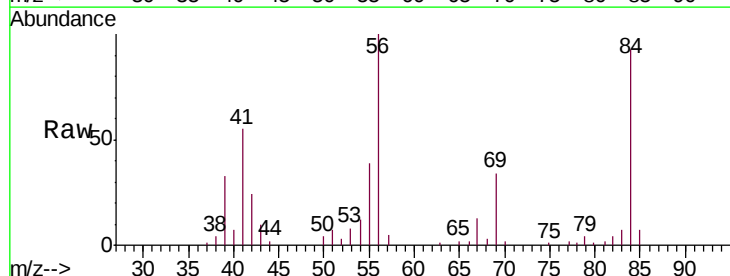
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 ClientSampleId :
 A52U4DL

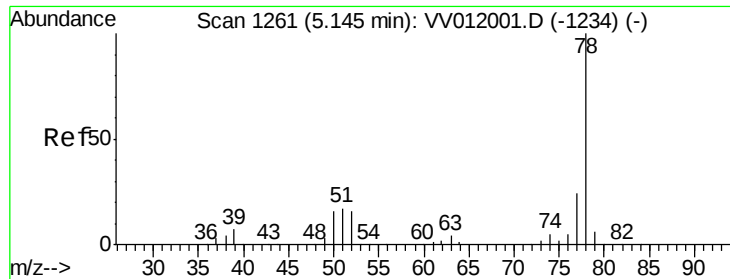
Tgt Ion: 62 Resp: 15994
 Ion Ratio Lower Upper
 62 100
 98 9.6 7.0 10.6



#30
 Cyclohexane
 Concen: 2.600 ug/L
 RT: 4.72 min Scan# 1130
 Delta R.T. 0.00 min
 Lab File: VV012005.D
 Acq: 24 Jul 2019 12:34

Tgt Ion: 56 Resp: 41103
 Ion Ratio Lower Upper
 56 100
 69 32.1 25.4 38.2
 84 92.1 73.4 110.0





#33

Benzene

Concen: 1.330 ug/L

RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VV012005.D

Acq: 24 Jul 2019 12:34

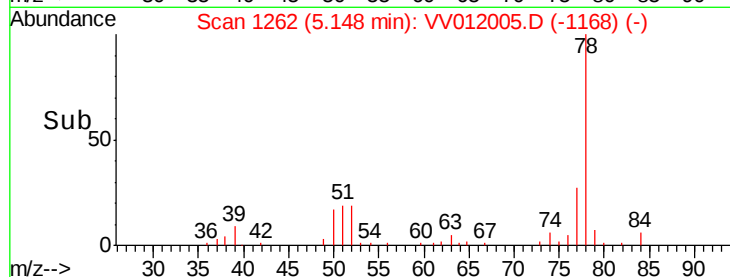
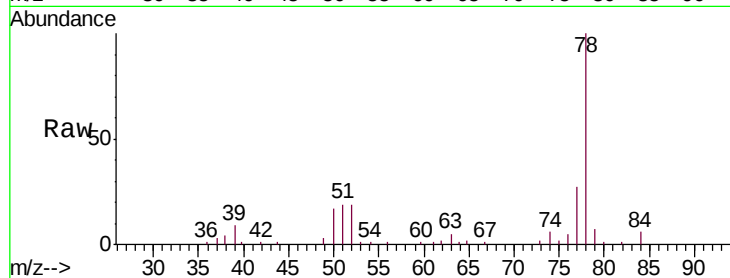
Instrument :

MSVOA_V

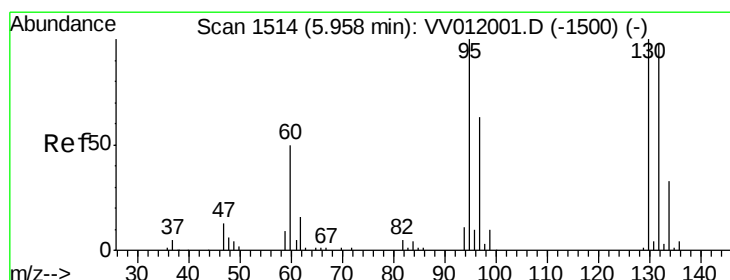
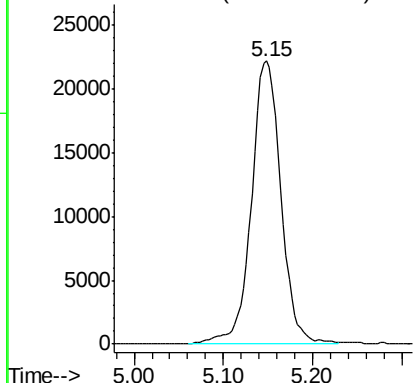
ClientSampleId :

A52U4DL

Tgt Ion: 78 Resp: 51164



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.907 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV012005.D

Acq: 24 Jul 2019 12:34

Tgt Ion: 95 Resp: 9690

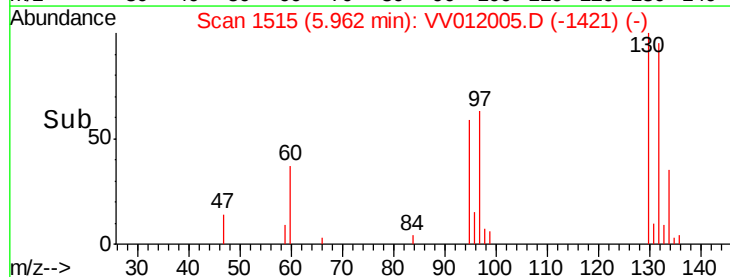
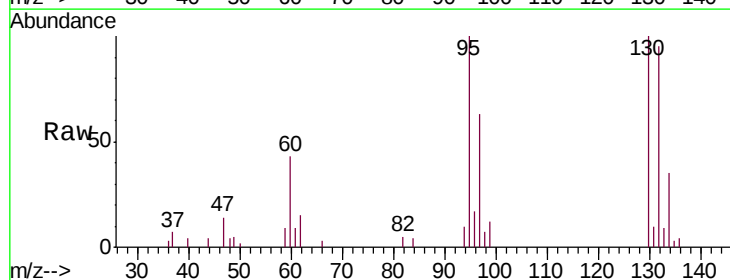
Ion	Ratio	Lower	Upper
95	100		
97	63.6	45.6	84.6
132	95.4	71.3	132.3
130	100.2	72.8	135.2

Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

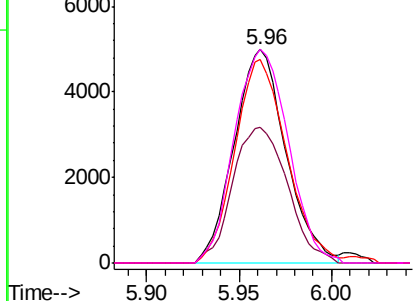


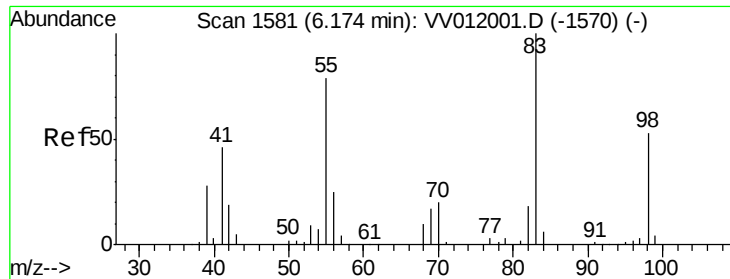
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

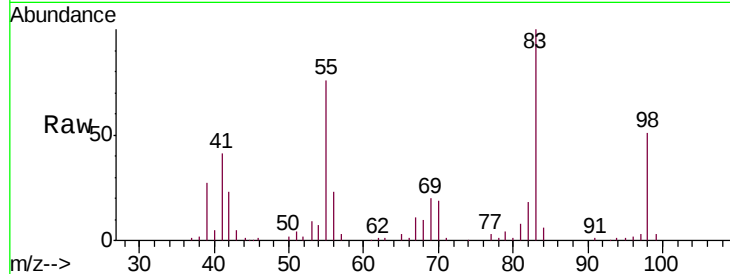




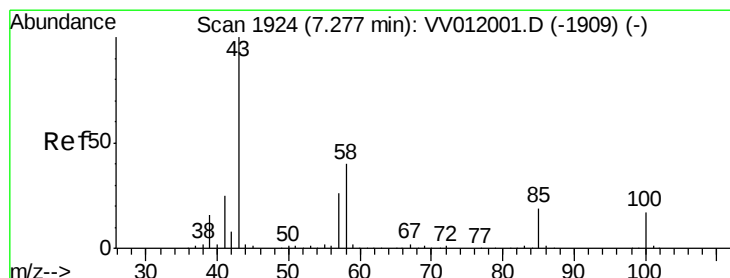
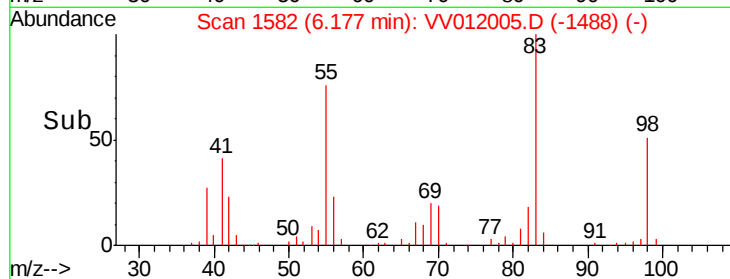
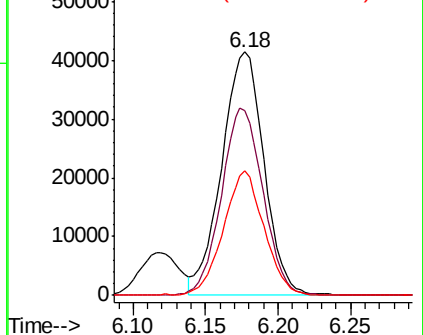
#35
Methylcyclohexane
Concen: 5.038 ug/L
RT: 6.18 min Scan# 1582
Delta R.T. 0.00 min
Lab File: VV012005.D
Acq: 24 Jul 2019 12:34

Instrument :
MSVOA_V
ClientSampled :
A52U4DL

Tgt Ion: 83 Resp: 83756
Ion Ratio Lower Upper
83 100
55 75.7 63.0 94.4
98 49.1 41.4 62.0

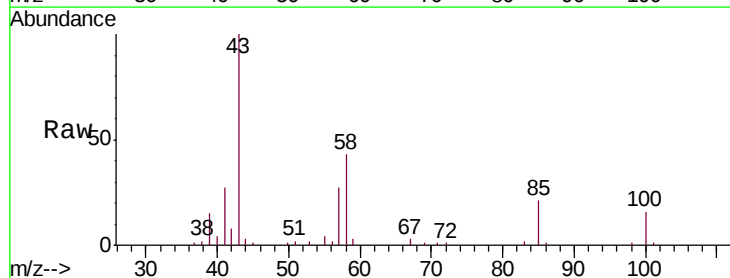


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

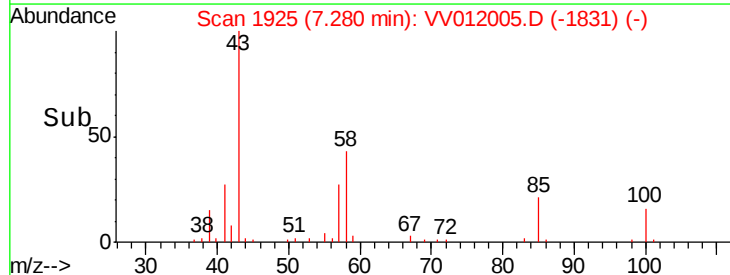
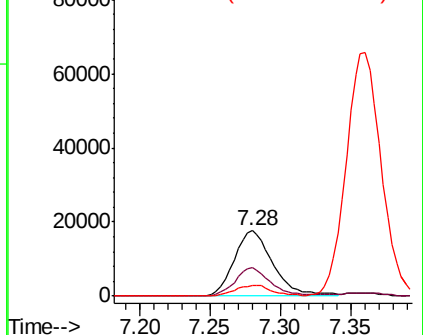


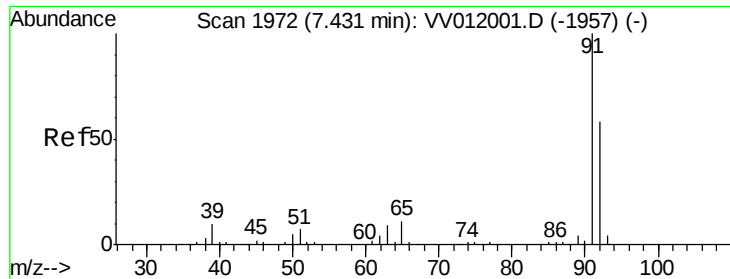
#40
4-Methyl-2-pentanone
Concen: 6.622 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. 0.00 min
Lab File: VV012005.D
Acq: 24 Jul 2019 12:34

Tgt Ion: 43 Resp: 34213
Ion Ratio Lower Upper
43 100
58 40.3 31.2 46.8
100 16.2 13.5 20.3



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 4.132 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012005.D

Acq: 24 Jul 2019 12:34

Instrument :

MSVOA_V

ClientSampleId :

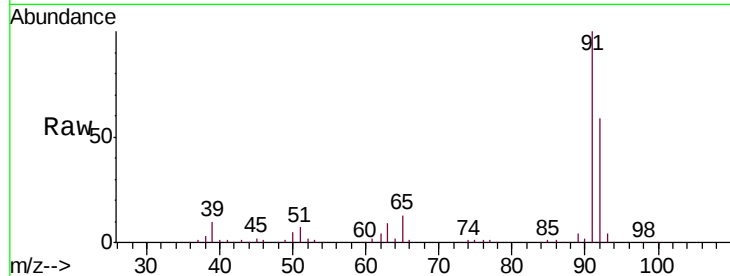
A52U4DL

Tgt Ion: 91 Resp: 170595

Ion Ratio Lower Upper

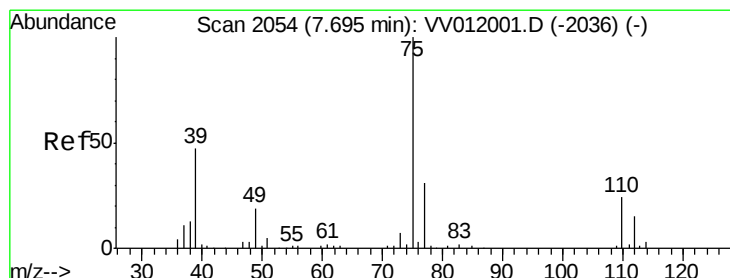
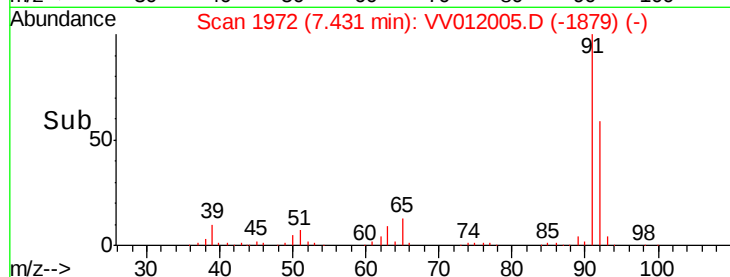
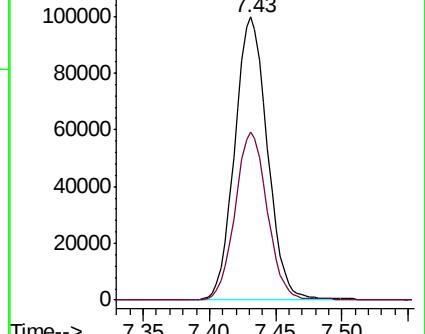
91 100

92 59.2 41.9 77.9



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.112 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.03 min

Lab File: VV012005.D

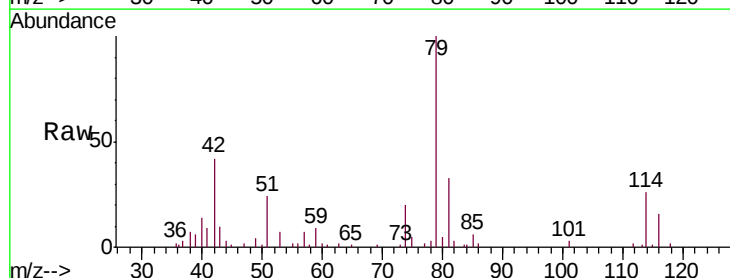
Acq: 24 Jul 2019 12:34

Tgt Ion: 75 Resp: 1224

Ion Ratio Lower Upper

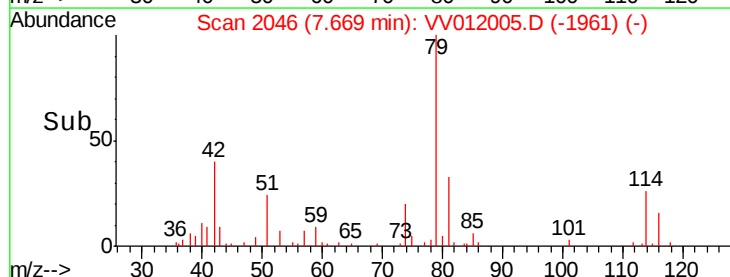
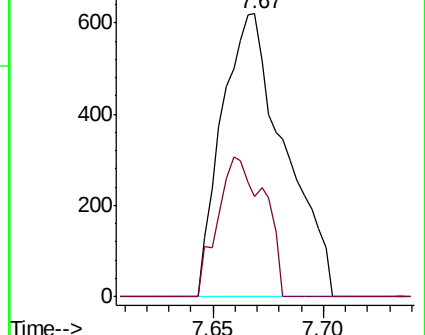
75 100

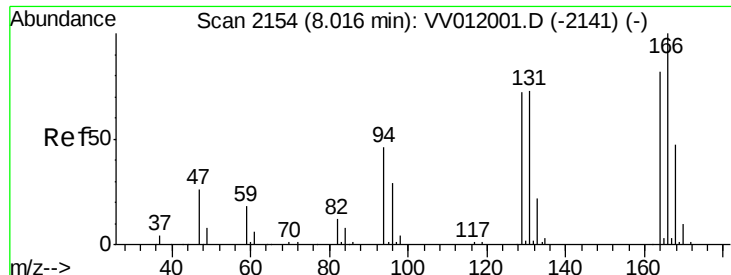
77 35.3 22.0 40.8



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

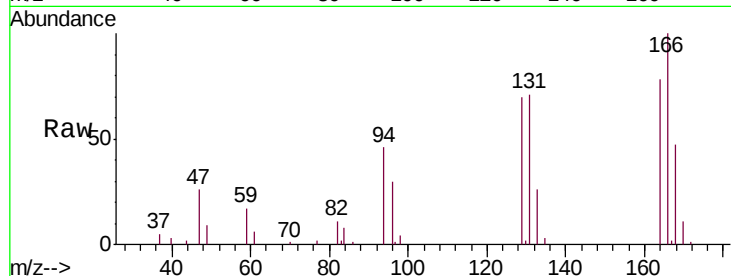




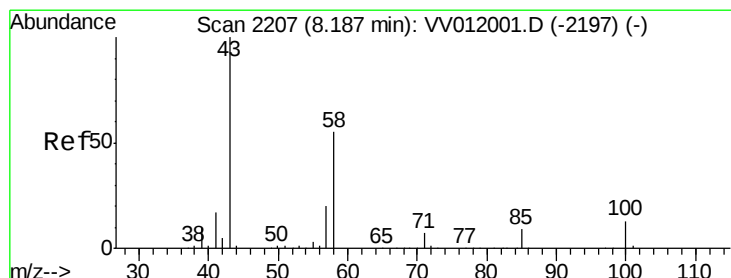
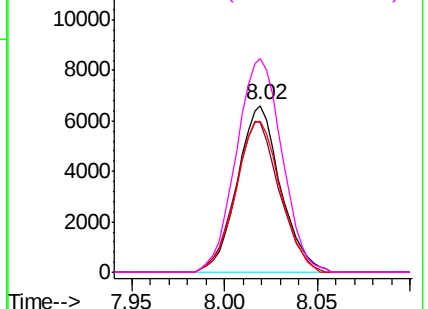
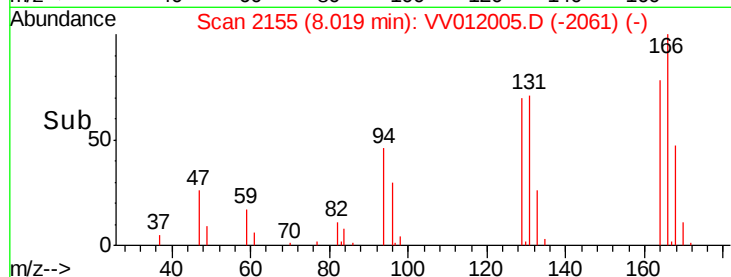
#47
Tetrachloroethene
Concen: 1.158 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. 0.00 min
Lab File: VV012005.D
Acq: 24 Jul 2019 12:34

Instrument :
MSVOA_V
ClientSampleId :
A52U4DL

Tgt Ion:164 Resp: 10672
Ion Ratio Lower Upper
164 100
129 89.9 62.5 116.1
131 90.5 58.6 108.8
166 127.9 88.2 163.8

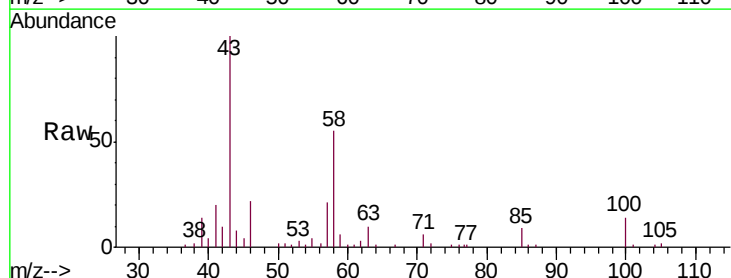


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

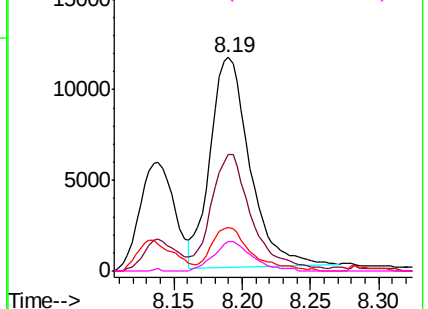
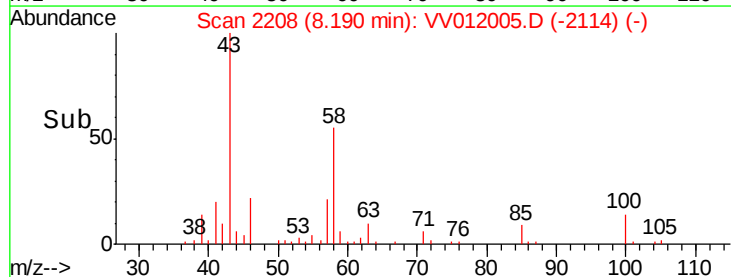


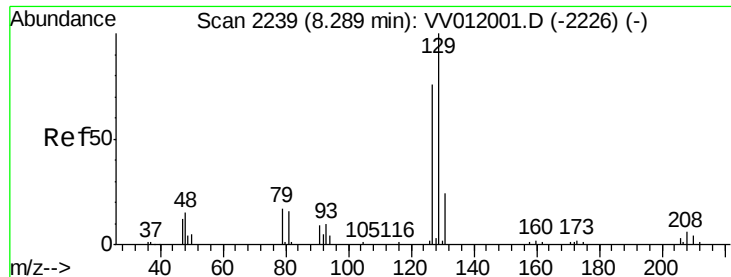
#48
2-Hexanone
Concen: 6.442 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VV012005.D
Acq: 24 Jul 2019 12:34

Tgt Ion: 43 Resp: 23351
Ion Ratio Lower Upper
43 100
58 54.7 43.7 65.5
57 21.1 16.0 24.0
100 13.8 10.5 15.7



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

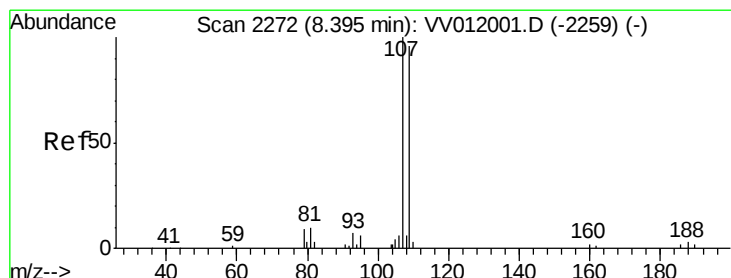
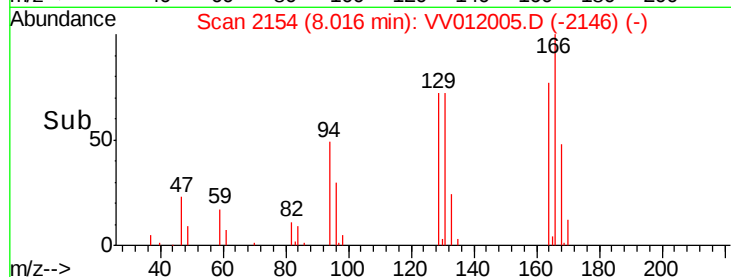
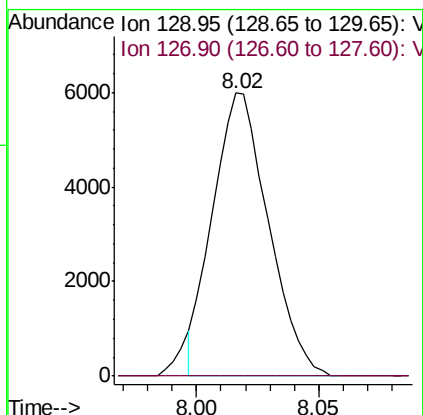
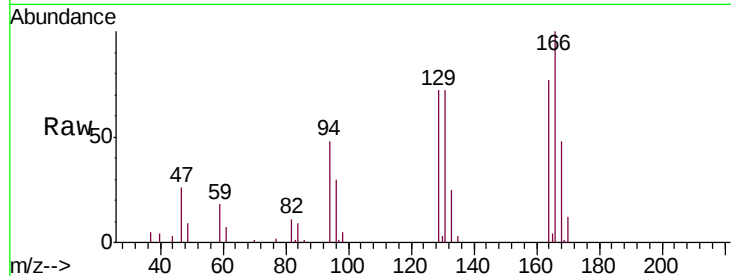




#49
 Dibromochloromethane
 Concen: 1.214 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.27 min
 Lab File: VV012005.D
 Acq: 24 Jul 2019 12:34

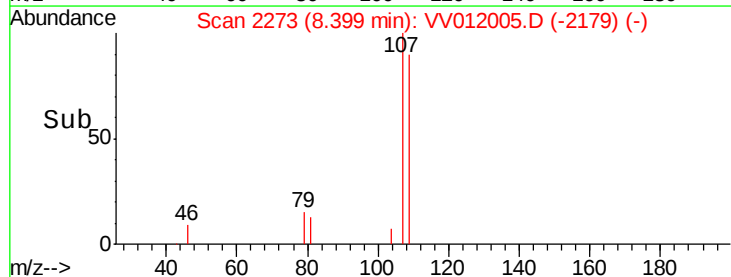
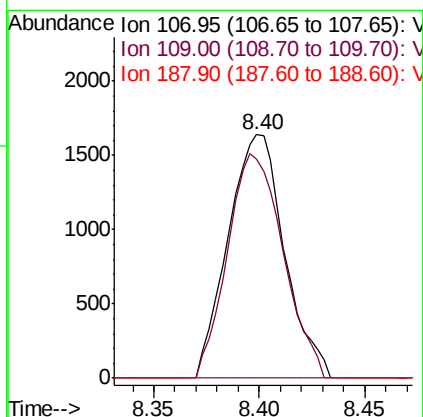
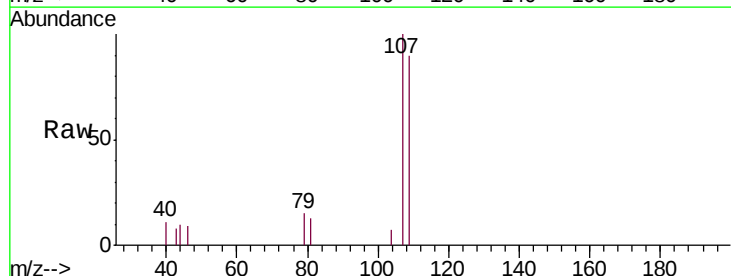
Instrument :
 MSVOA_V
 ClientSampleId :
 A52U4DL

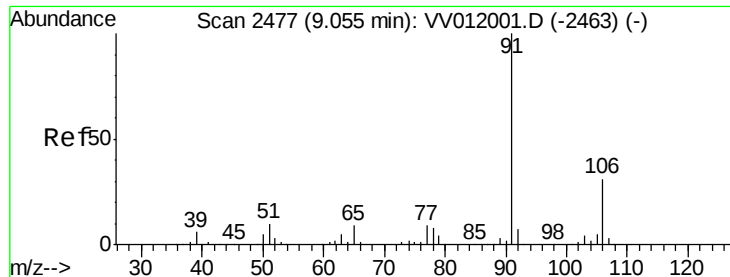
Tgt Ion:129 Resp: 9494
 Ion Ratio Lower Upper
 129 100
 127 0.0 55.3 102.7#



#50
 1,2-Dibromoethane
 Concen: 0.506 ug/L
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VV012005.D
 Acq: 24 Jul 2019 12:34

Tgt Ion:107 Resp: 3053
 Ion Ratio Lower Upper
 107 100
 109 90.3 68.1 126.5
 188 0.0 3.5 5.3#





#52

Ethylbenzene

Concen: 2.421 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012005.D

Acq: 24 Jul 2019 12:34

Instrument :

MSVOA_V

ClientSampleId :

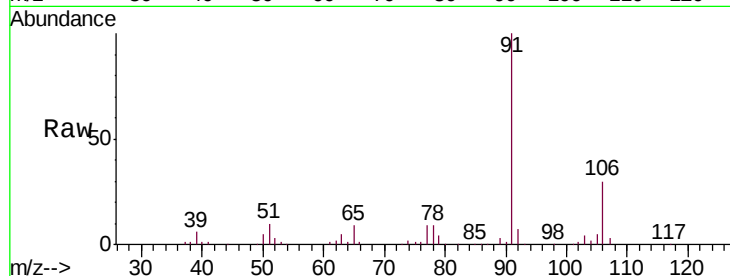
A52U4DL

Tgt Ion: 91 Resp: 114098

Ion Ratio Lower Upper

91 100

106 30.1 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV012001.D (-2463) (-)

Ion 106.15 (105.85 to 106.85): VV012001.D (-2463) (-)

9.05

80000

60000

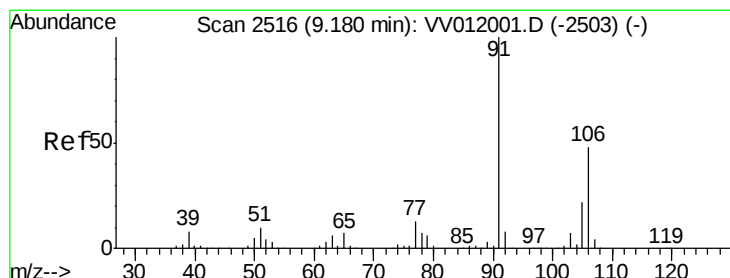
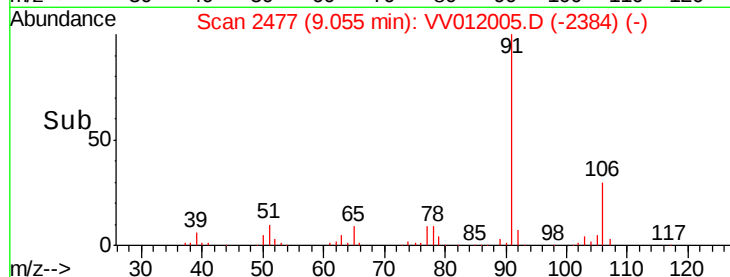
40000

20000

0

9.00 9.05 9.10 9.15

Time-->



#53

m,p-xylene

Concen: 2.073 ug/L

RT: 9.19 min Scan# 2518

Delta R.T. 0.01 min

Lab File: VV012005.D

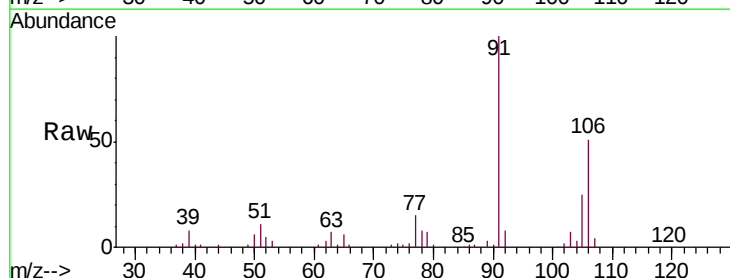
Acq: 24 Jul 2019 12:34

Tgt Ion: 106 Resp: 37182

Ion Ratio Lower Upper

106 100

91 196.1 142.7 265.1



Abundance Ion 106.15 (105.85 to 106.85): VV012001.D (-2503) (-)

Ion 91.15 (90.85 to 91.85): VV012001.D (-2503) (-)

9.19

50000

40000

30000

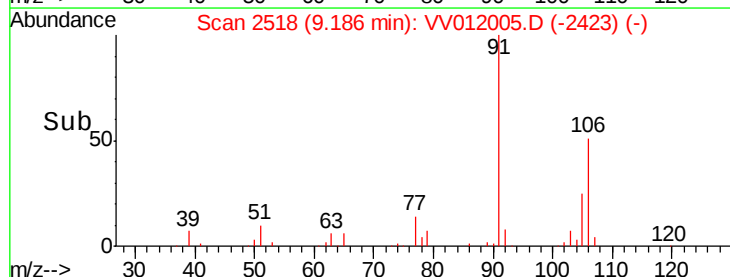
20000

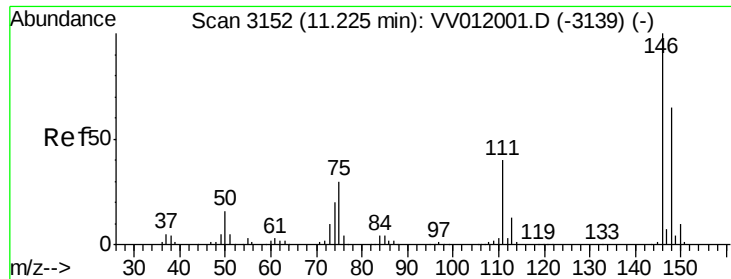
10000

0

9.10 9.15 9.20 9.25

Time-->

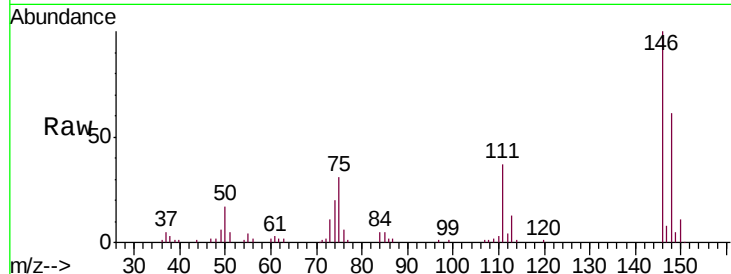




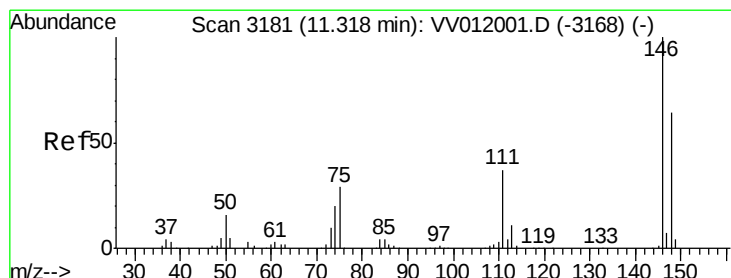
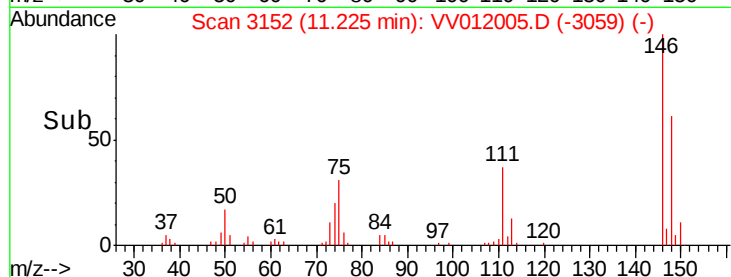
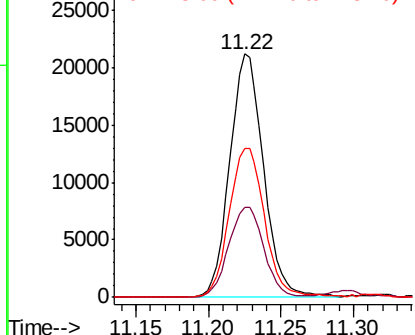
#62
 1,3-Dichlorobenzene
 Concen: 1.553 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV012005.D
 Acq: 24 Jul 2019 12:34

Instrument :
 MSVOA_V
 ClientSampled :
 A52U4DL

Tgt Ion:146 Resp: 34329
 Ion Ratio Lower Upper
 146 100
 111 36.9 27.1 50.3
 148 61.2 44.5 82.7

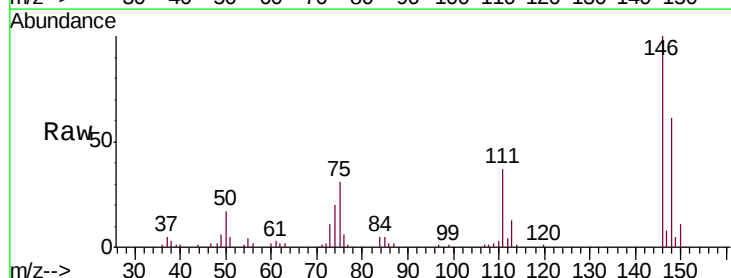


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V



#63
 1,4-Dichlorobenzene
 Concen: 1.509 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.09 min
 Lab File: VV012005.D
 Acq: 24 Jul 2019 12:34

Tgt Ion:146 Resp: 34329
 Ion Ratio Lower Upper
 146 100
 111 36.9 26.0 48.2
 148 61.2 43.0 80.0



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

