

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072419\
 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 08:25:47 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

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	1.54	94	2408	0.478	ug/L	78
12) 1,1-Dichloroethene	2.14	96	3702	0.583	ug/L	# 1
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
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
47) Tetrachloroethene	8.02	164	10672	1.158	ug/L	97
48) 2-Hexanone	8.19	43	23351	6.442	ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Jul 25 04:12:02 2019
Response via : Initial Calibration

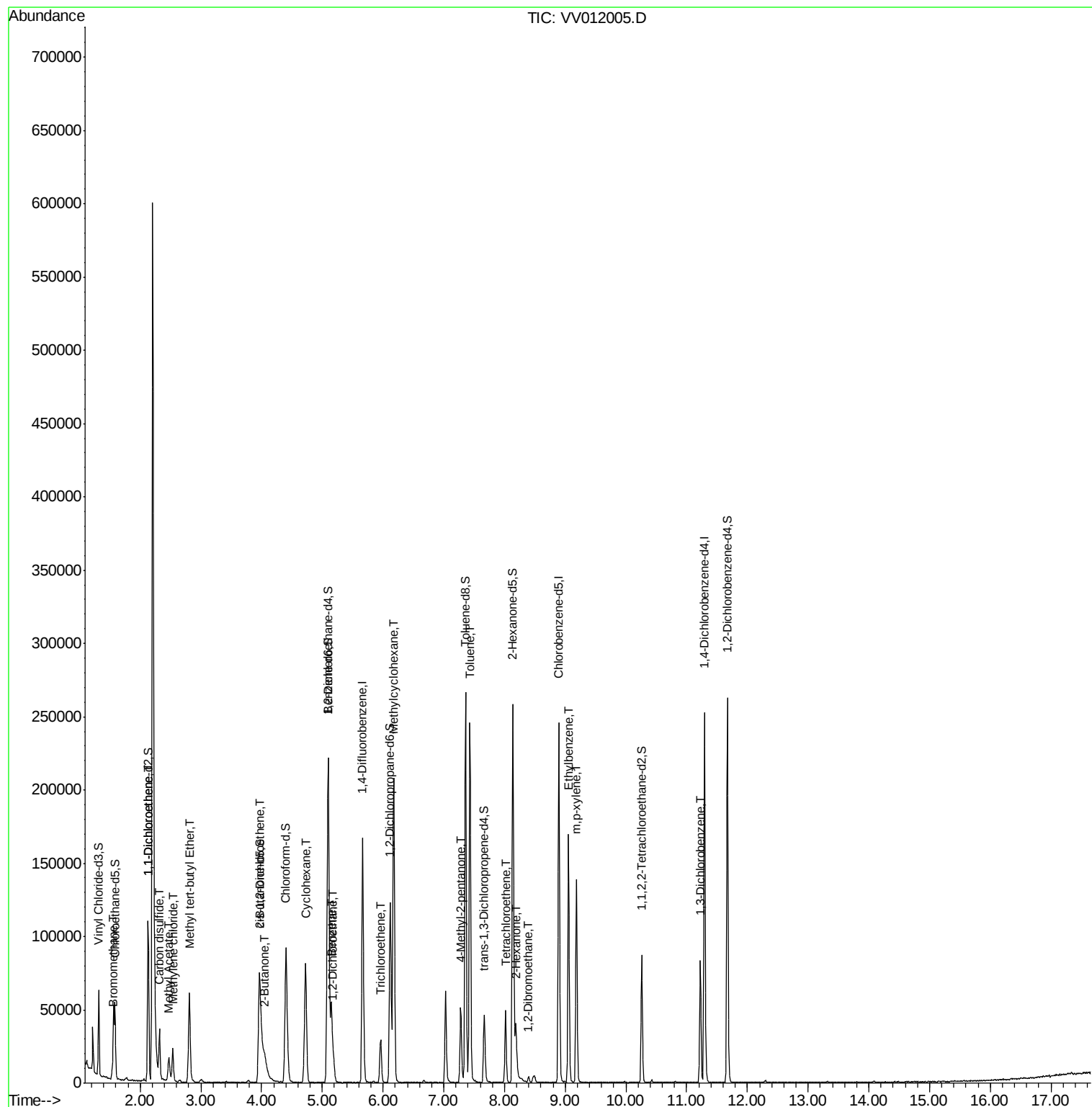
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-Dibromoethane	8.40	107	3053	0.506	ug/L #	93
52) Ethylbenzene	9.05	91	114098	2.421	ug/L	99
53) m,p-xylene	9.19	106	37182	2.073	ug/L	95
62) 1,3-Dichlorobenzene	11.22	146	34329	1.553	ug/L	97

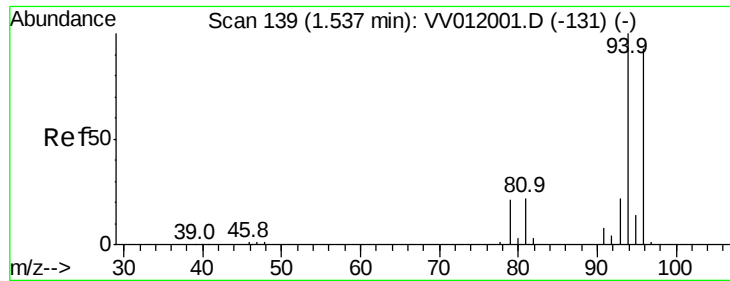
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV072419\
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Response via : Initial Calibration





#6

Bromomethane

Concen: 0.478 ug/L

RT: 1.54 min Scan# 140

Delta R.T. 0.00 min

Lab File: VV012005.D

Acq: 24 Jul 2019 12:34

Instrument :

MSVOA_V

ClientSampleId :

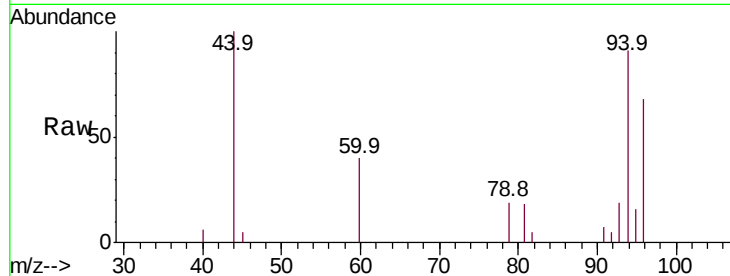
A52U4DL

Tot 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): VV012005.D (-140) (-)

Ion 96.00 (95.70 to 96.70): VV012005.D (-140) (-)

1.54

2000

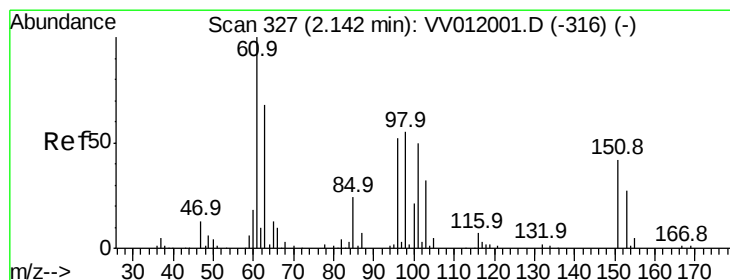
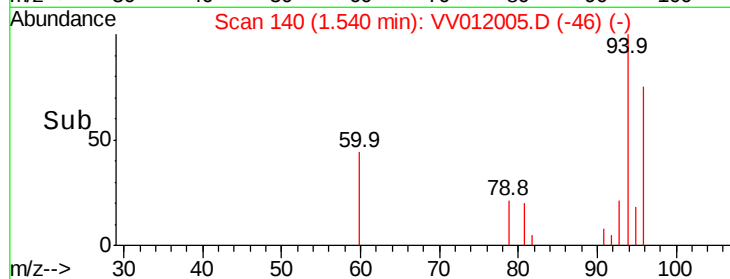
1500

1000

500

0

Time-->



#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

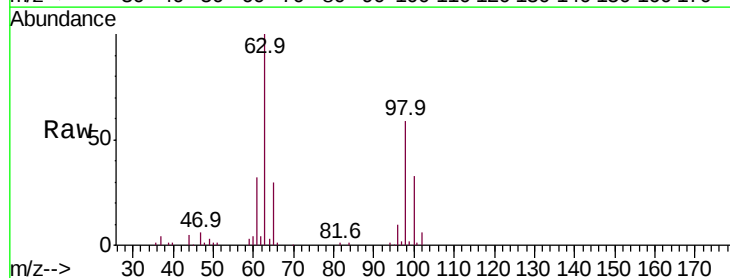
Tgt Ion: 96 Resp: 3702

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): VV012005.D (-327) (-)

Ion 61.05 (60.75 to 61.75): VV012005.D (-327) (-)

Ion 63.00 (62.70 to 63.70): VV012005.D (-327) (-)

50000

40000

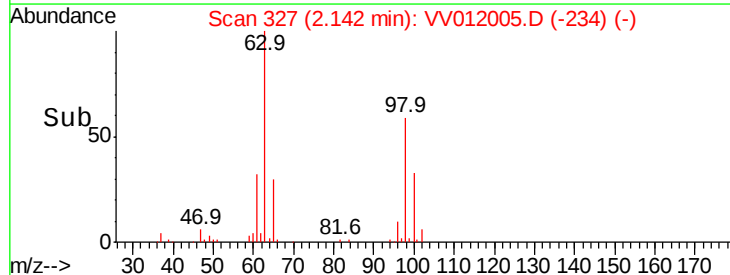
30000

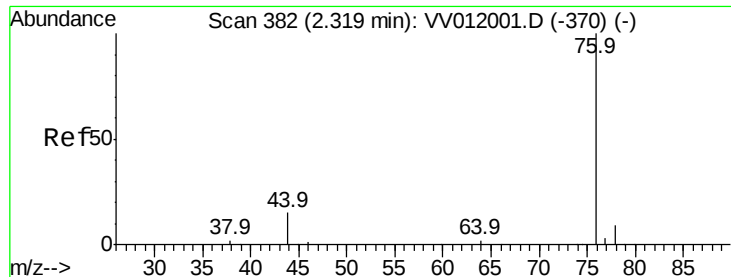
20000

10000

0

Time-->





#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

Instrument :

MSVOA_V

ClientSampleId :

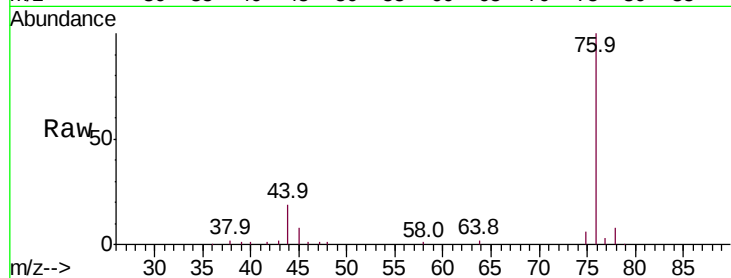
A52U4DL

Tot 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): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.32

25000

20000

15000

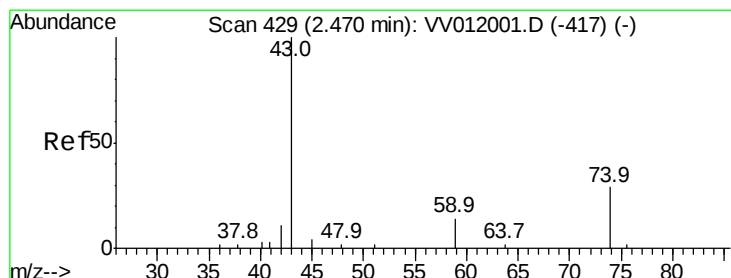
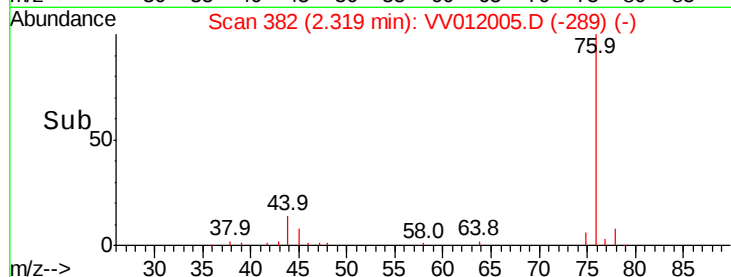
10000

5000

0

Time-->

2.25 2.30 2.35 2.40



#15

Methyl Acetate

Concen: 8.998 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VV012005.D

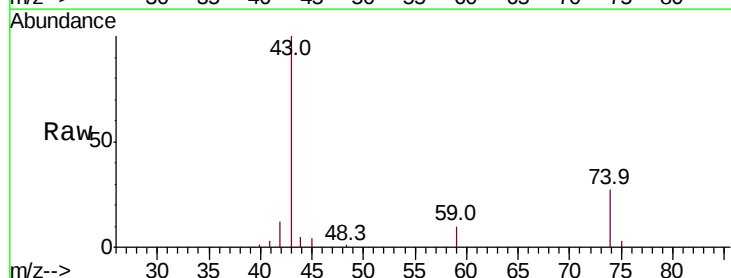
Acq: 24 Jul 2019 12:34

Tgt Ion: 43 Resp: 22427

Ion Ratio Lower Upper

43 100

74 27.8 23.4 35.2



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

2.47

12000

10000

8000

6000

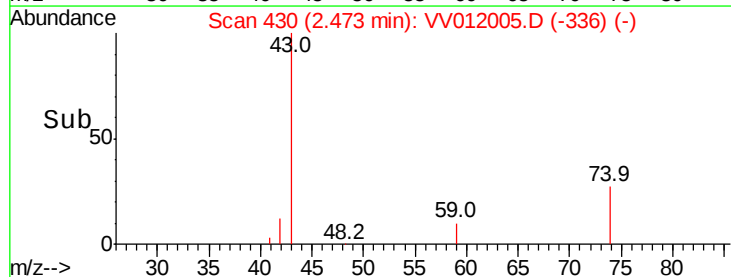
4000

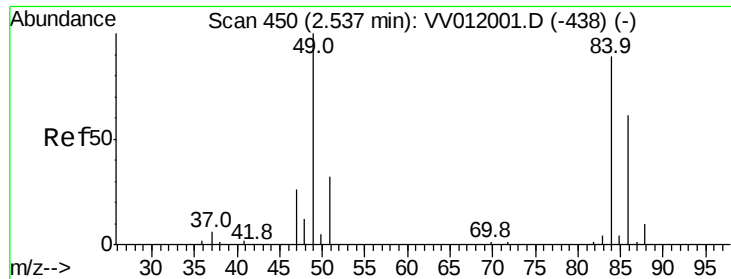
2000

0

Time-->

2.40 2.50 2.60

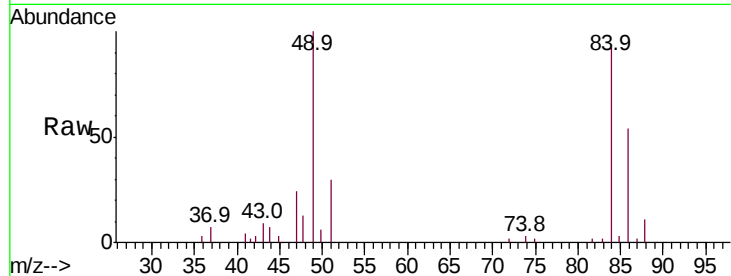




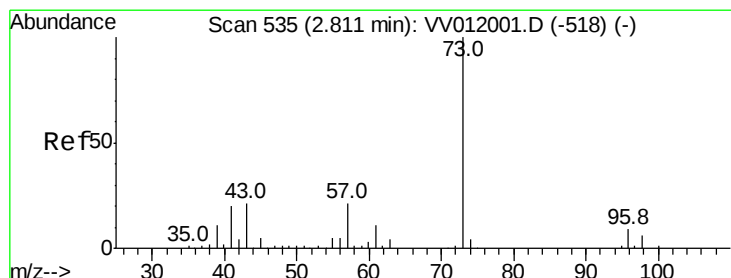
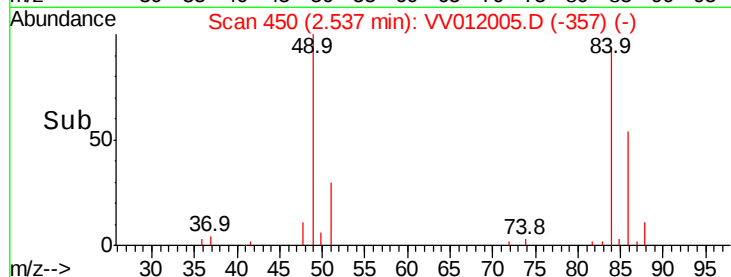
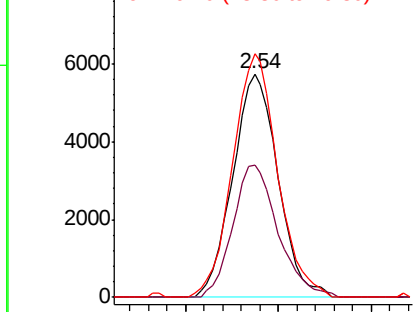
#16
Methvlene chloride
Concen: 1.364 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012005.D
Acq: 24 Jul 2019 12:34

Instrument :
MSVOA_V
ClientSampled :
A52U4DL

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

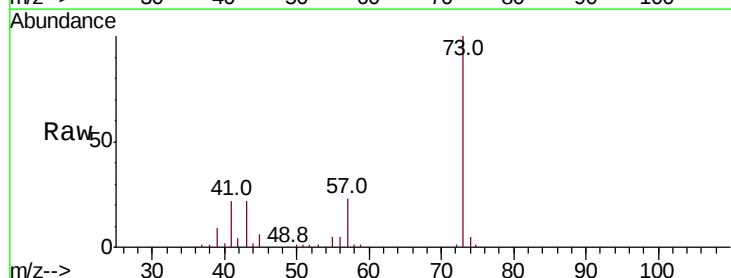


Abundance Ion 84.05 (83.75 to 84.75): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.10 (48.80 to 49.80): VV0

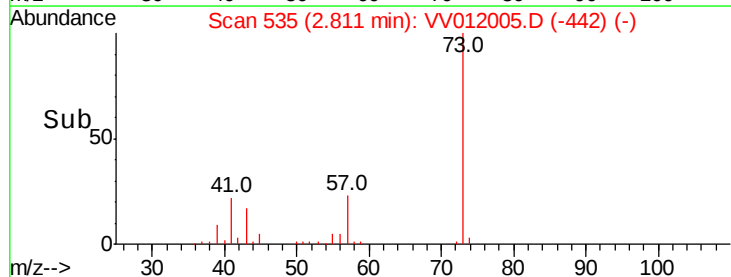
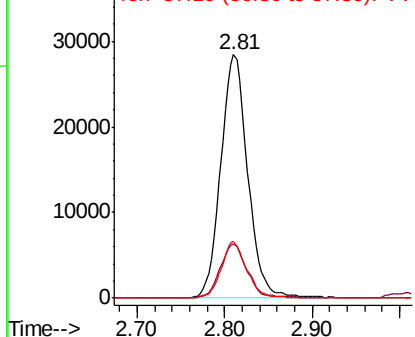


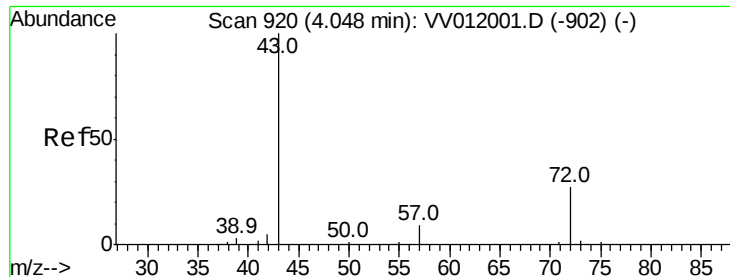
#17
Methyl tert-butyl Ether
Concen: 2.809 ug/L
RT: 2.81 min Scan# 535
Delta R.T. 0.00 min
Lab File: VV012005.D
Acq: 24 Jul 2019 12:34

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): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0





#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

Instrument :

MSVOA_V

ClientSampleId :

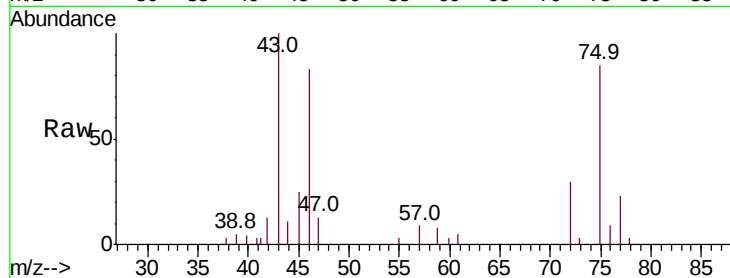
A52U4DL

Tot Ion: 43 Resp: 19658

Ion Ratio Lower Upper

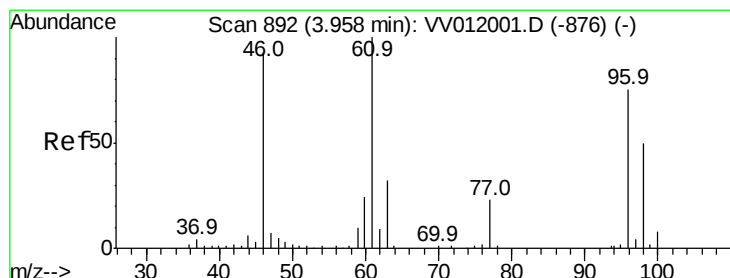
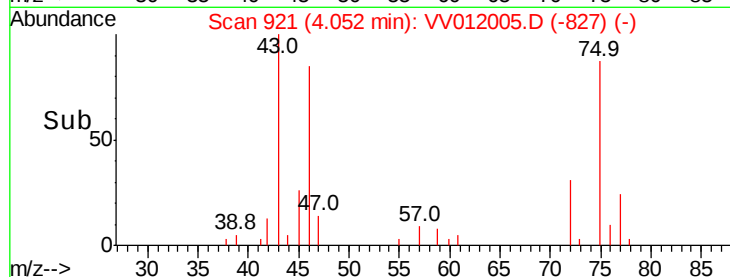
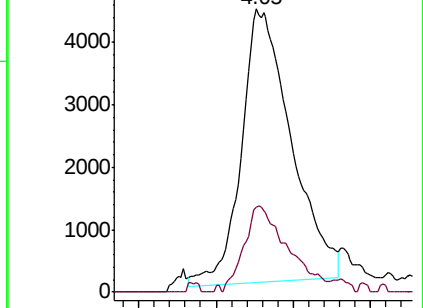
43 100

72 27.9 13.6 40.8



Abundance Ion 43.05 (42.75 to 43.75): VV012005.D (-921) (-)

Ion 72.10 (71.80 to 72.80): VV012005.D (-921) (-)



#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

Acq: 24 Jul 2019 12:34

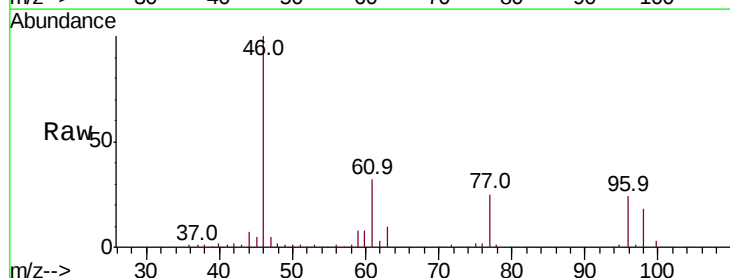
Tgt Ion: 96 Resp: 16053

Ion Ratio Lower Upper

96 100

61 135.9 89.0 165.2

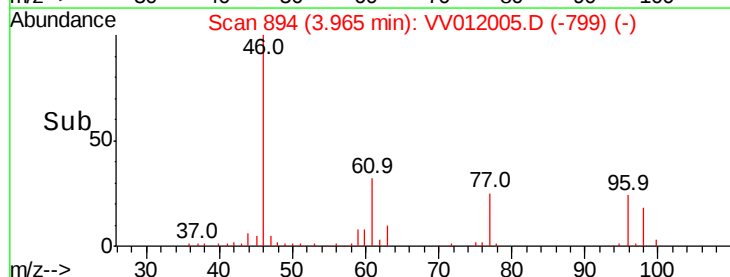
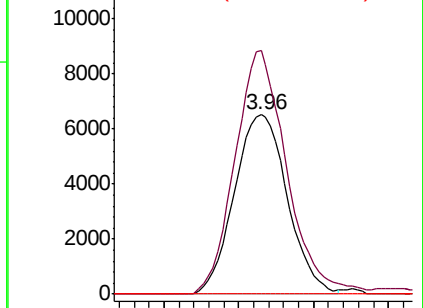
68 0.0 0.0 0.0

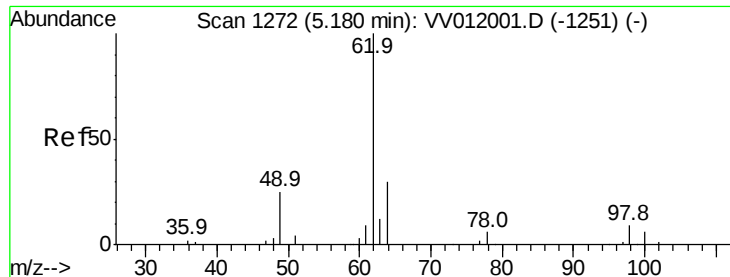


Abundance Ion 96.00 (95.70 to 96.70): VV012005.D (-799) (-)

Ion 61.05 (60.75 to 61.75): VV012005.D (-799) (-)

Ion 68.15 (67.85 to 68.85): VV012005.D (-799) (-)

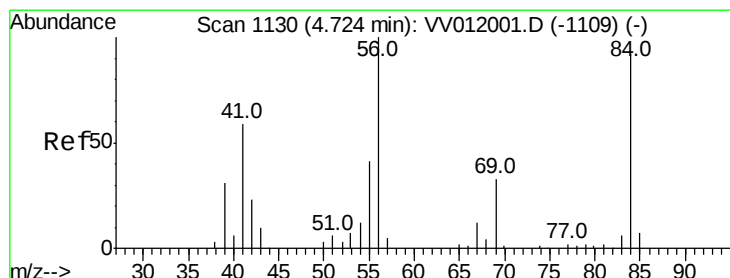
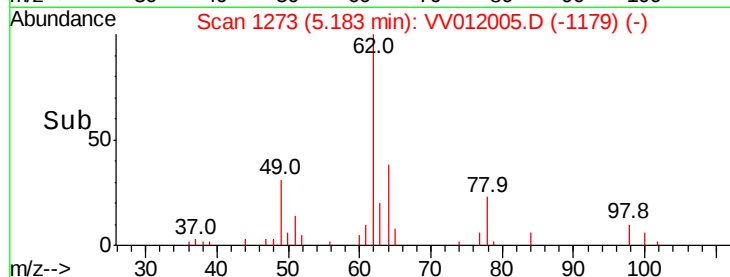
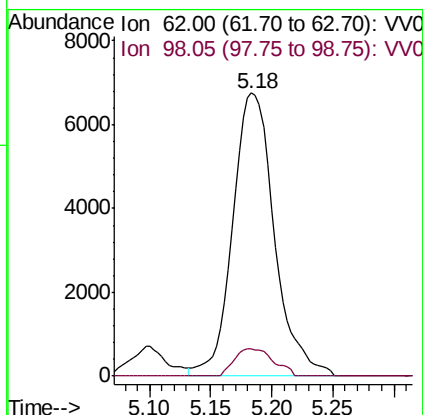
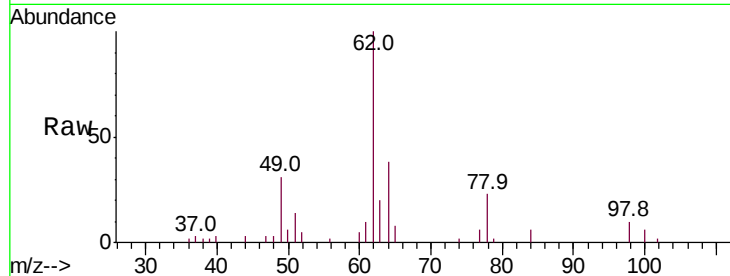




#27
 1,2-Dichloroethane
 Concen: 1.365 ug/L
 RT: 5.18 min Scan# 1273
 Delta R.T. 0.00 min
 Lab File: VV012005.D
 Acq: 24 Jul 2019 12:34

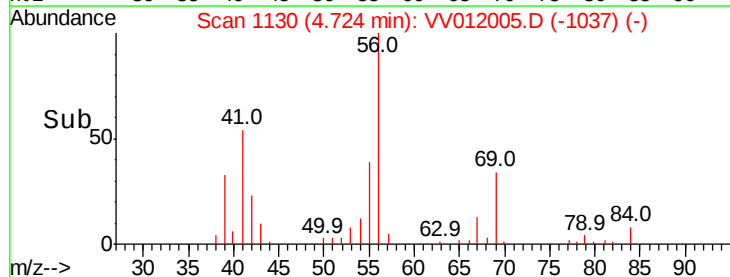
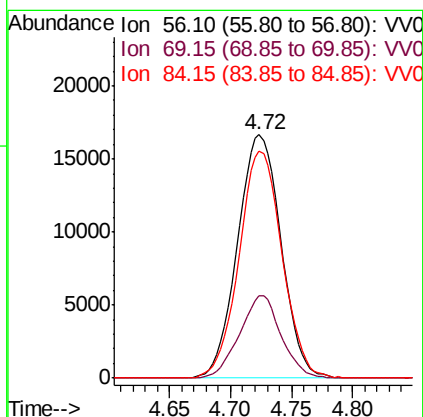
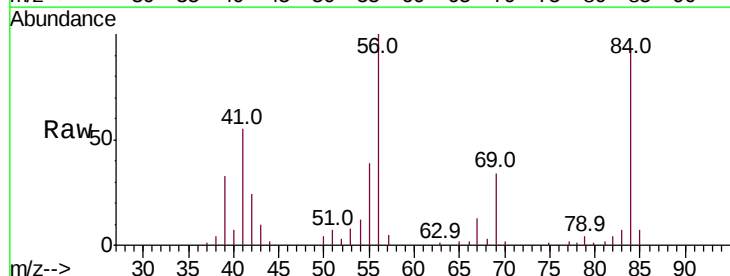
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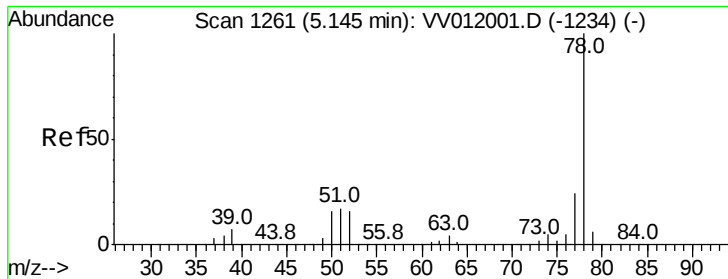
Tot Ion: 62 Resp: 15994
 Ion Ratio Lower Upper
 62 100
 98 9.6 7.0 10.6



#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

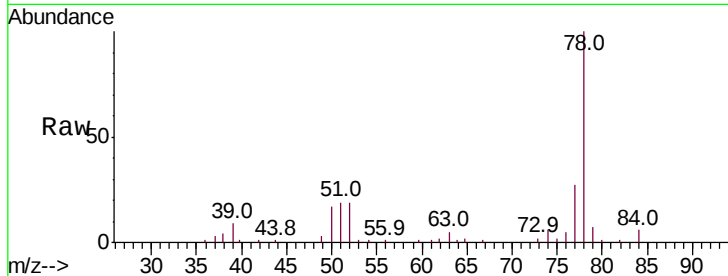
Instrument :

MSVOA_V

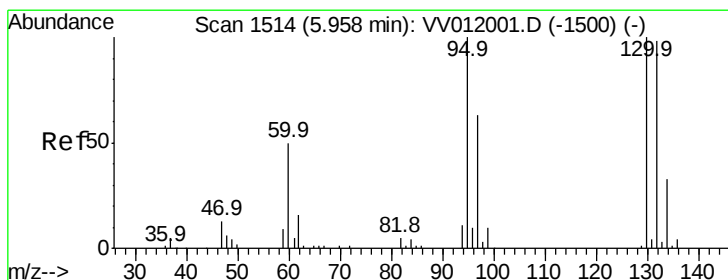
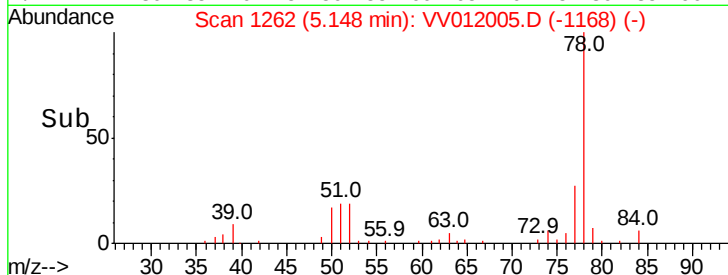
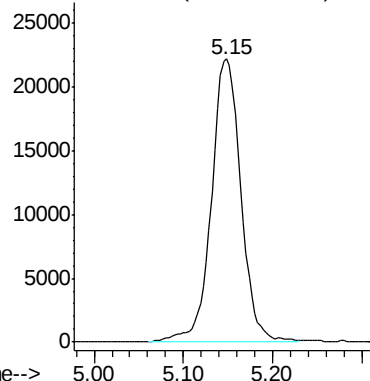
ClientSampleId :

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

95 100

97 63.6 45.6 84.6

132 95.4 71.3 132.3

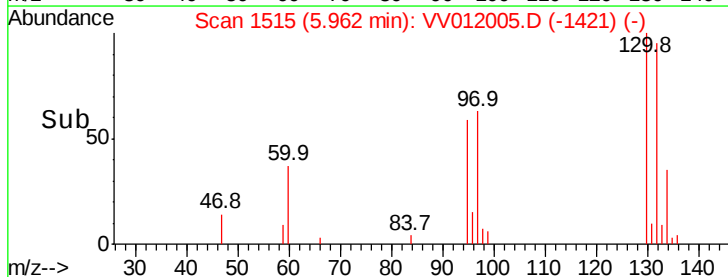
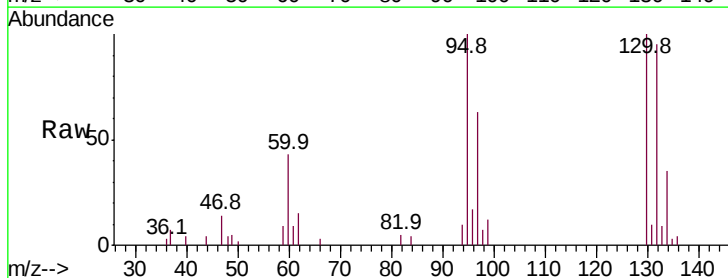
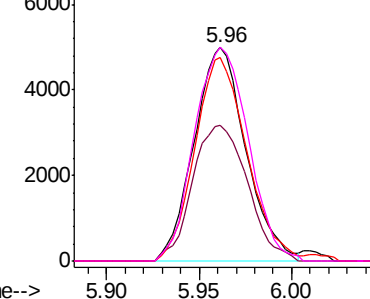
130 100.2 72.8 135.2

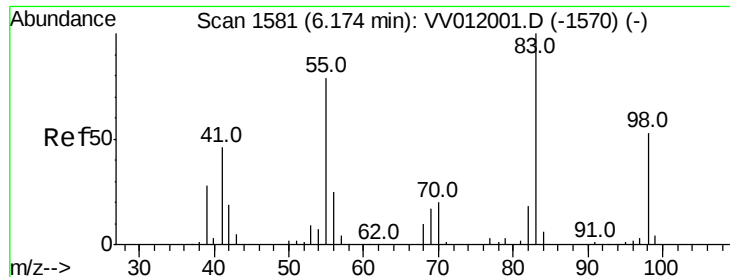
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

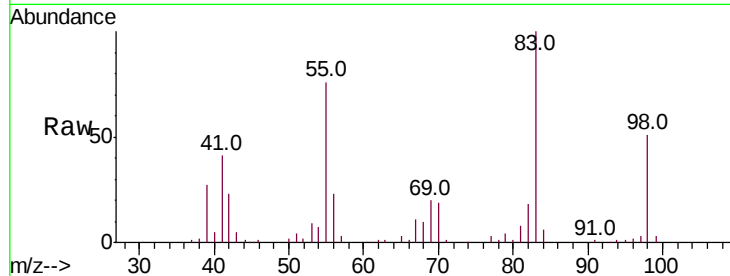
Tot Ion: 83 Resp: 83756

Ion Ratio Lower Upper

83 100

55 75.7 63.0 94.4

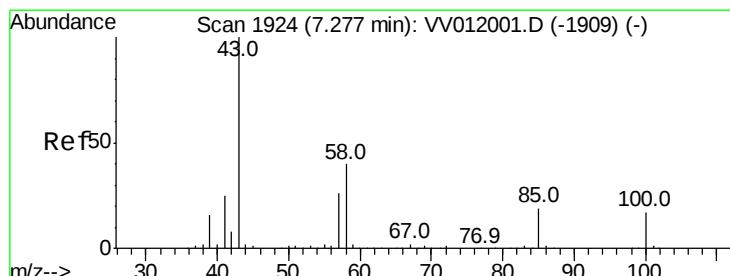
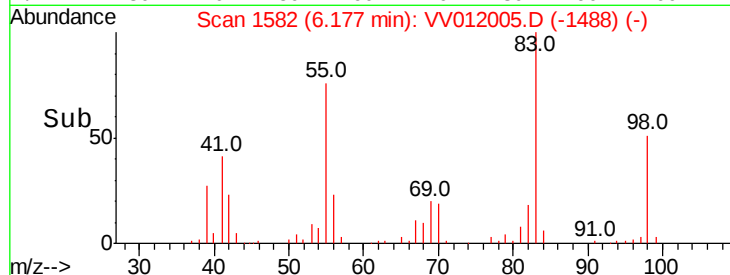
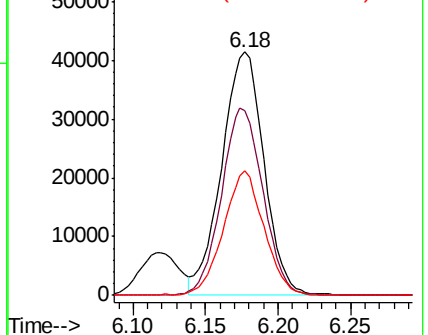
98 49.1 41.4 62.0



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

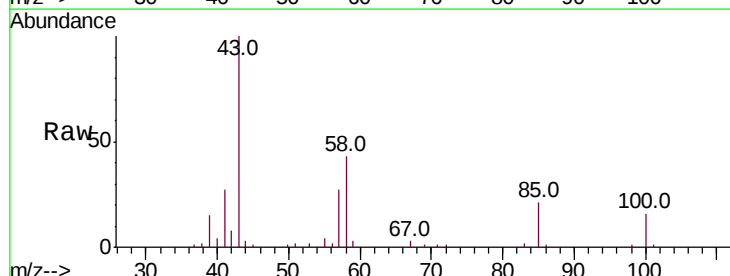
Tgt Ion: 43 Resp: 34213

Ion Ratio Lower Upper

43 100

58 40.3 31.2 46.8

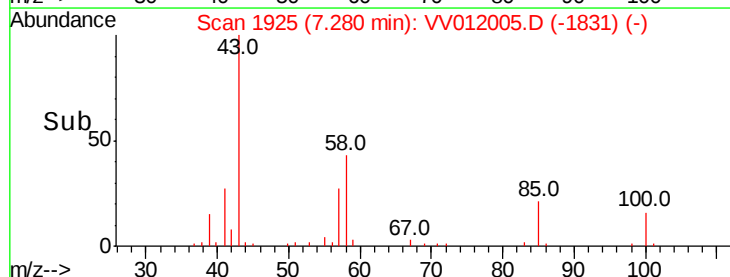
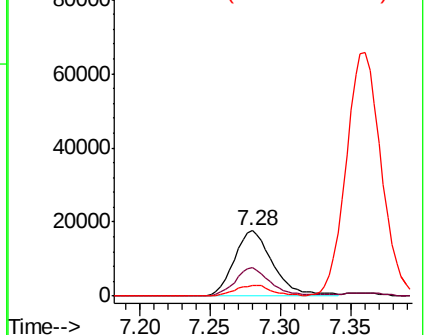
100 16.2 13.5 20.3

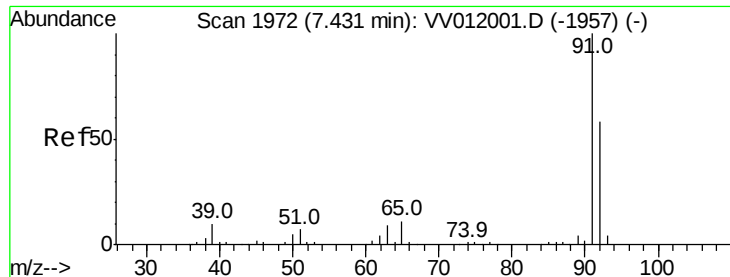


Abundance Ion 43.05 (42.75 to 43.75): VV0

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

ClientSampled :

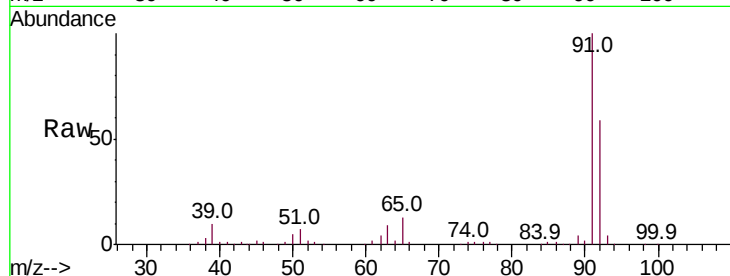
A52U4DL

Tot 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

7.43

100000

80000

60000

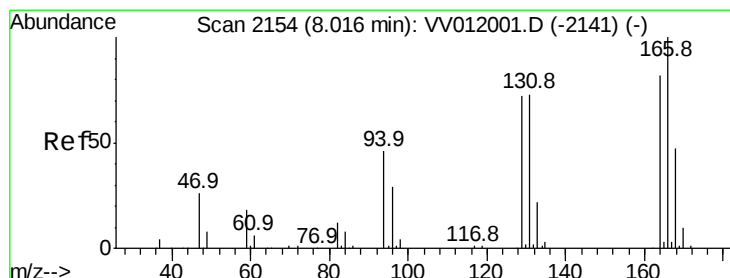
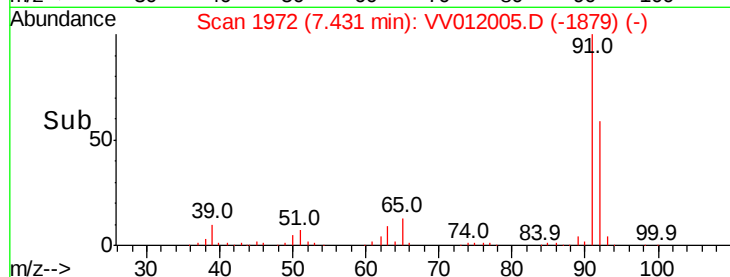
40000

20000

0

7.35 7.40 7.45 7.50

Time-->



#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

Tgt Ion:164 Resp: 10672

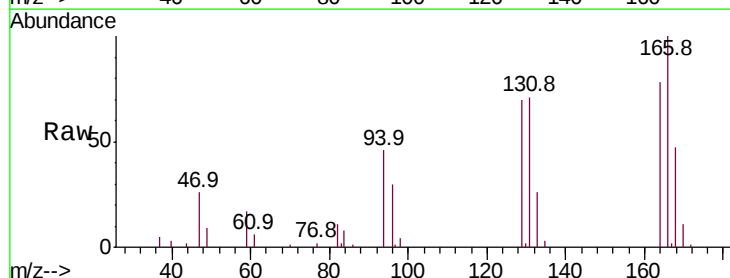
Ion Ratio Lower Upper

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

12000

10000

8000

6000

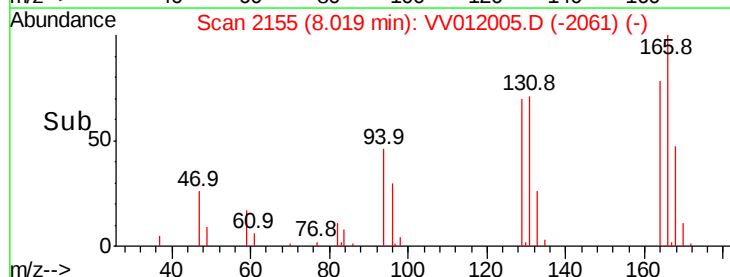
4000

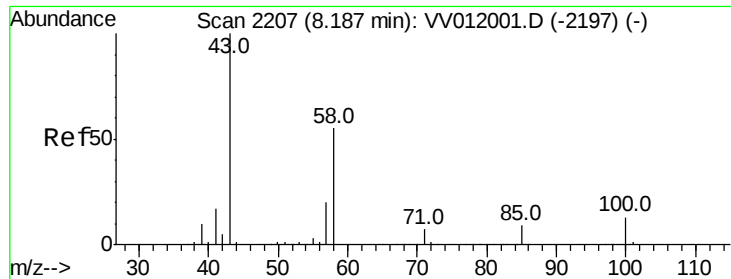
2000

0

7.95 8.00 8.05

Time-->

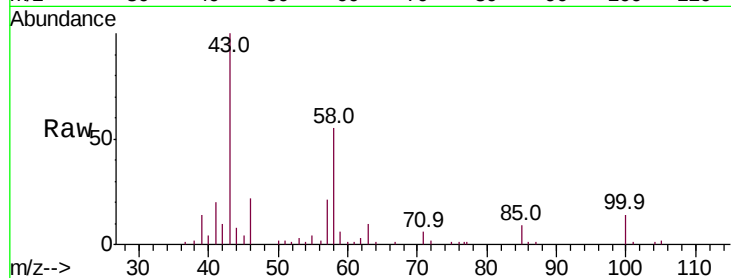




#48
2-Hexanone
Concen: 6.442 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VV012005.D
Acq: 24 Jul 2019 12:34

Instrument :
MSVOA_V
ClientSampleId :
A52U4DL

Tot 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

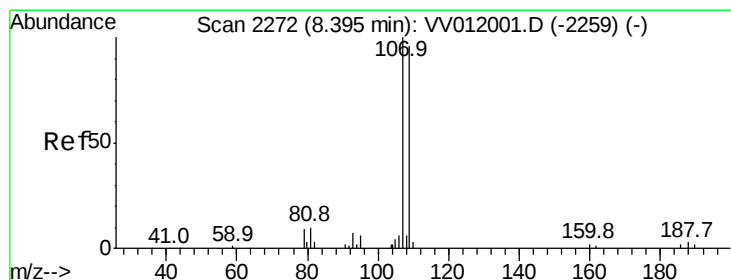
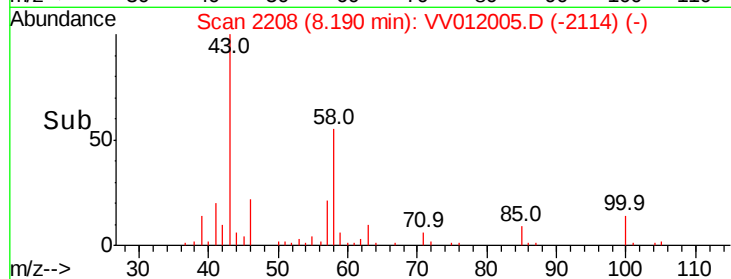
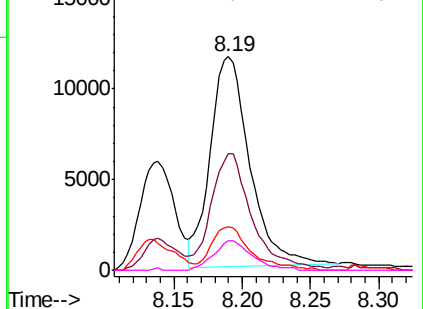


Abundance Ion 43.05 (42.75 to 43.75): VV012005.D (-2197) (-)

Ion 58.05 (57.75 to 58.75): VV012005.D (-2197) (-)

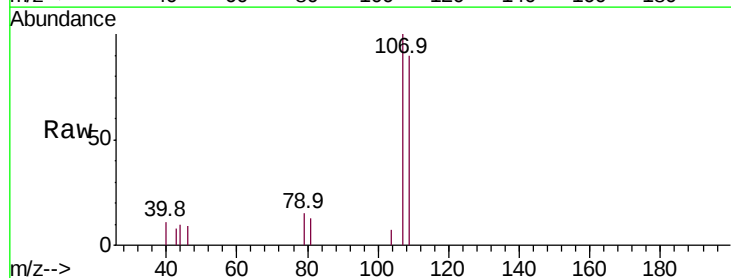
Ion 57.20 (56.90 to 57.90): VV012005.D (-2197) (-)

Ion 100.15 (99.85 to 100.85): VV012005.D (-2197) (-)



#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

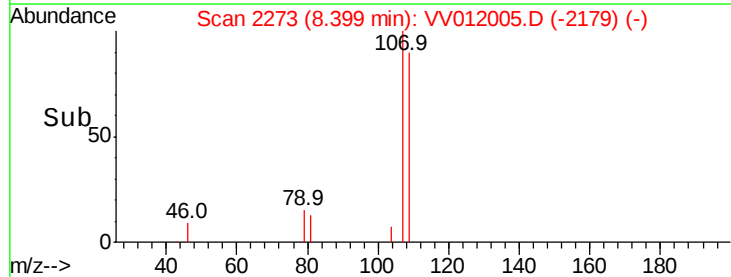
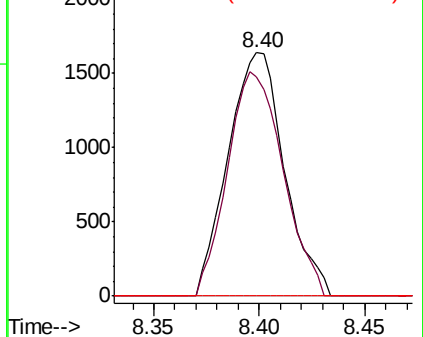
Tgt Ion:	107	Resp:	3053
Ion	Ratio	Lower	Upper
107	100		
109	90.3	68.1	126.5
188	0.0	3.5	5.3#

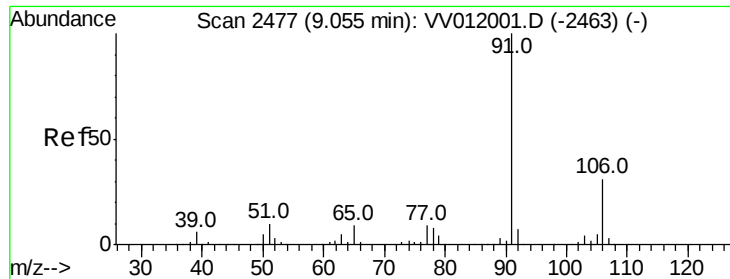


Abundance Ion 106.95 (106.65 to 107.65): VV012005.D (-2179) (-)

Ion 109.00 (108.70 to 109.70): VV012005.D (-2179) (-)

Ion 187.90 (187.60 to 188.60): VV012005.D (-2179) (-)





#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 :

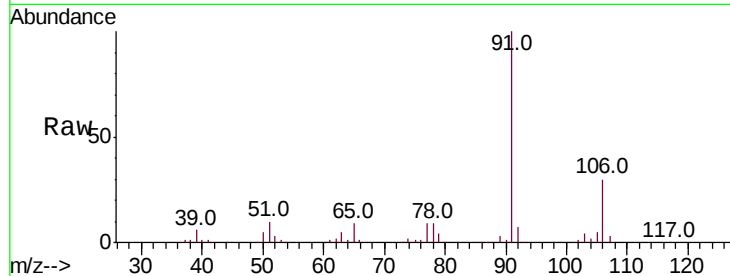
A52U4DL

Tot Ion: 91 Resp: 114098

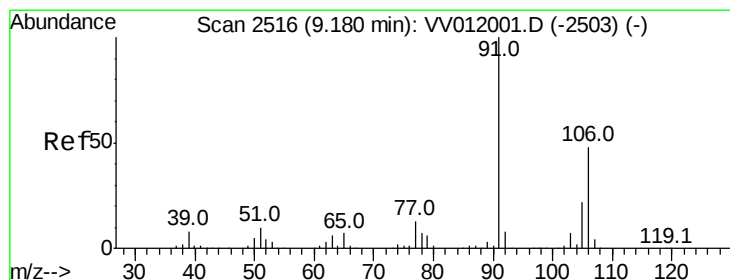
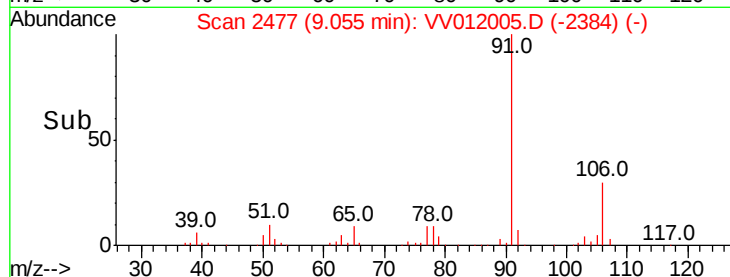
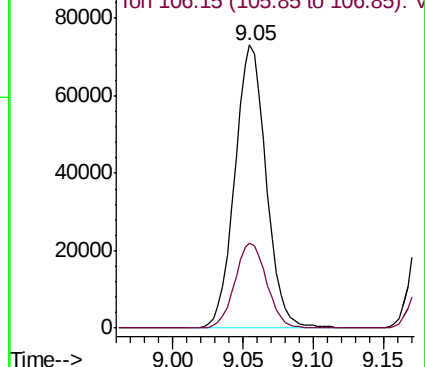
Ion Ratio Lower Upper

91 100

106 30.1 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV012005.D (-2384) (-)



#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

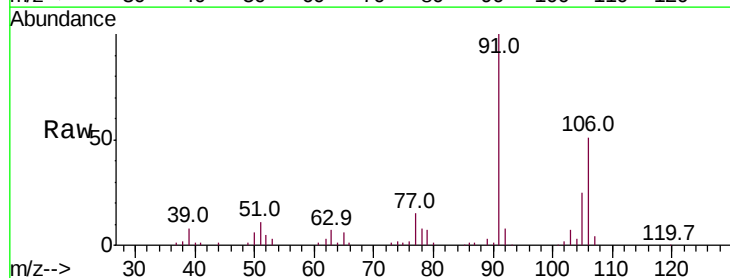
Acq: 24 Jul 2019 12:34

Tgt Ion: 106 Resp: 37182

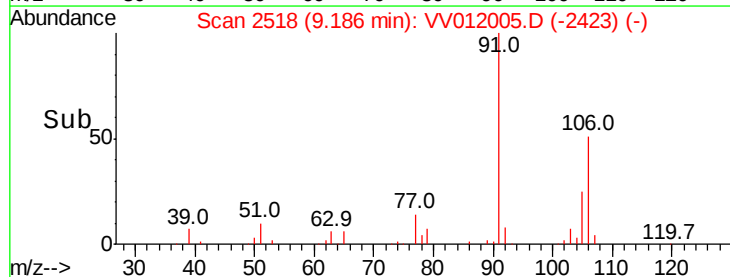
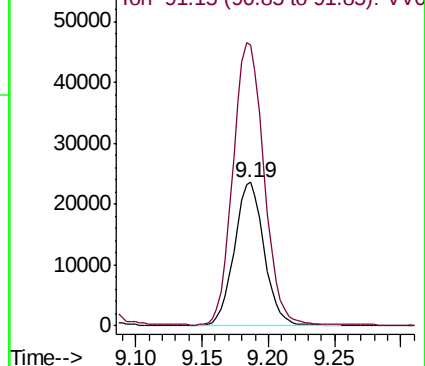
Ion Ratio Lower Upper

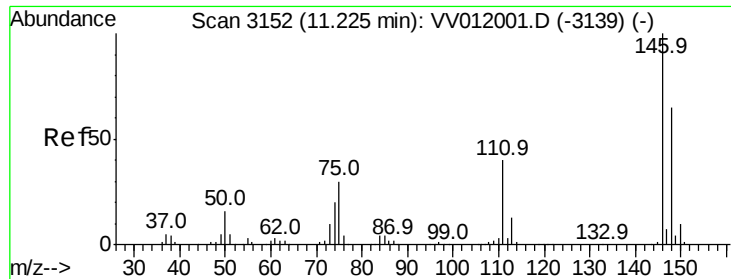
106 100

91 196.1 142.7 265.1



Abundance Ion 106.15 (105.85 to 106.85): VV012005.D (-2423) (-)





#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

ClientSampleId :

A52U4DL

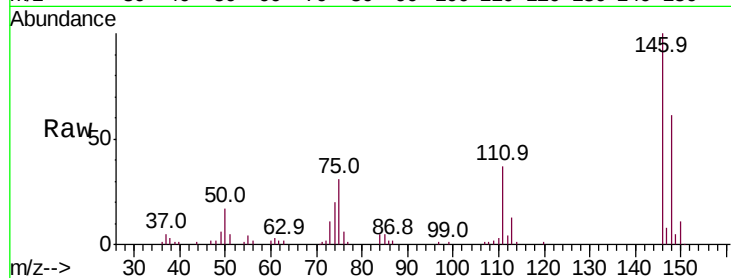
Tot Ion:146 Resp: 34329

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

