

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\
 Data File : VV016305.D
 Acq On : 29 May 2020 03:32
 Operator : SY/MD
 Sample : L2662-08
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 29 04:27:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 29 04:21:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	110546	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	102663	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	52521	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	27052	3.81	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.20%
7) Chloroethane-d5	1.58	69	18168	2.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	58.20%#
11) 1,1-Dichloroethene-d2	2.12	63	37458	2.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.20%#
20) 2-Butanone-d5	3.97	46	20541	11.66	ug/L	0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	23.32%#
24) Chloroform-d	4.38	84	55536	3.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	78.60%
26) 1,2-Dichloroethane-d4	5.06	65	29908	4.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.00%
32) Benzene-d6	5.07	84	115281	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.60%
36) 1,2-Dichloropropane-d6	6.10	67	34119	4.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.80%
41) Toluene-d8	7.34	98	105916	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.40%
45) trans-1,3-Dichloropropene-	7.65	79	11306	3.86	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.20%
48) 2-Hexanone-d5	8.12	63	58596	43.56	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.12%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	23206	3.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	79.80%
65) 1,2-Dichlorobenzene-d4	11.65	152	39481	4.50	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	235381	24.313	ug/L	99
8) Chloroethane	1.51	64	16227	3.000	ug/L #	53
12) 1,1-Dichloroethene	2.13	96	1385	0.212	ug/L #	1
13) Acetone	2.26	43	68177	62.540	ug/L	56
14) Carbon disulfide	2.31	76	1242	0.061	ug/L #	79
15) Methyl Acetate	2.26	43	68177	24.474	ug/L #	53
16) Methylene chloride	2.52	84	754	0.101	ug/L	87
18) trans-1,2-Dichloroethene	2.77	96	9373	1.314	ug/L	96
19) 1,1-Dichloroethane	3.21	63	812	0.060	ug/L #	68
21) 2-Butanone	4.06	43	139486	71.928	ug/L	94
22) cis-1,2-Dichloroethene	3.93	96	532231	63.067	ug/L	93
27) 1,2-Dichloroethane	5.16	62	7958	0.849	ug/L #	95
33) Benzene	5.12	78	364789	12.348	ug/L	100
34) Trichloroethene	5.94	95	4426	0.575	ug/L	95
35) Methylcyclohexane	6.10	83	8573	0.660	ug/L #	17
40) 4-Methyl-2-pentanone	7.27	43	10400	2.307	ug/L #	90
42) Toluene	7.41	91	457972	14.215	ug/L	99

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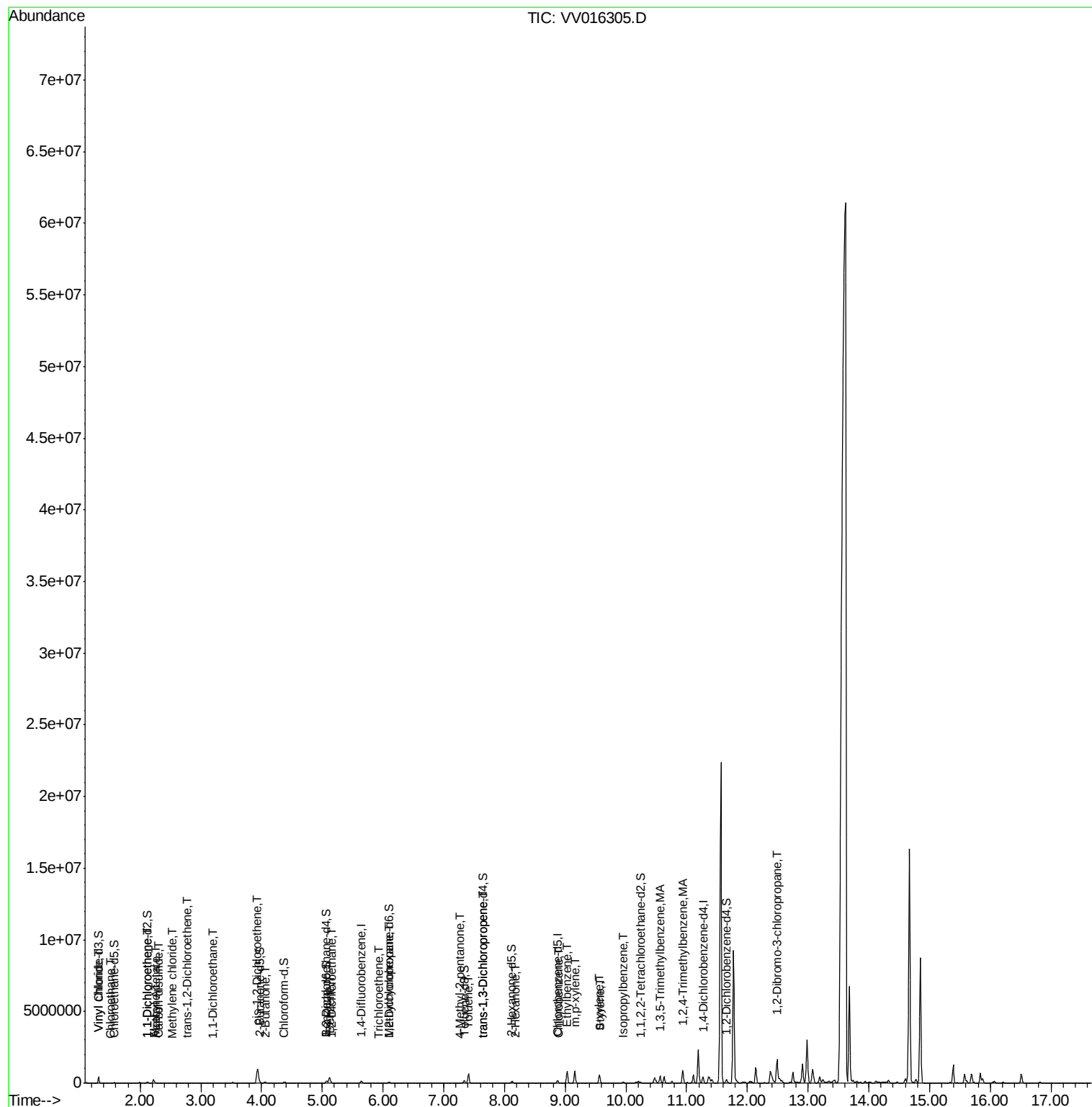
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 1,3,5-Trimethylbenzene	10.56	105	163995	5.591	ug/L	99
44) 1,2,4-Trimethylbenzene	10.94	105	468957	15.524	ug/L	98
46) trans-1,3-Dichloropropene	7.65	75	444	0.052	ug/L #	44
50) 2-Hexanone	8.18	43	8439	2.684	ug/L	95
53) Chlorobenzene	8.91	112	4021	0.202	ug/L	98
54) Ethylbenzene	9.03	91	558371	15.548	ug/L	99
55) m,p-xylene	9.16	106	217044	16.118	ug/L	100
56) o-xylene	9.56	106	148843	11.599	ug/L	99
57) Styrene	9.58	104	23516	1.101	ug/L #	36
58) Isopropylbenzene	9.95	105	48208	1.371	ug/L	97
67) 1,2-Dibromo-3-chloropropan	12.49	75	35847	36.631	ug/L #	9

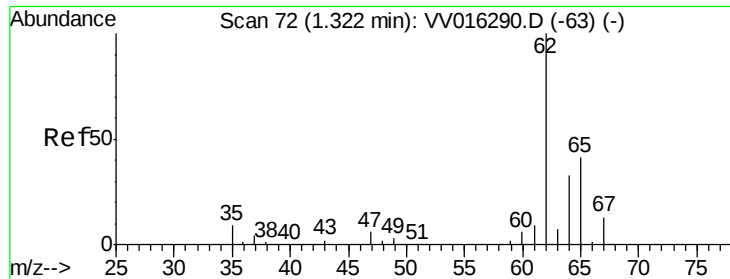
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 24.313 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VV016305.D

Acq: 29 May 2020 03:32

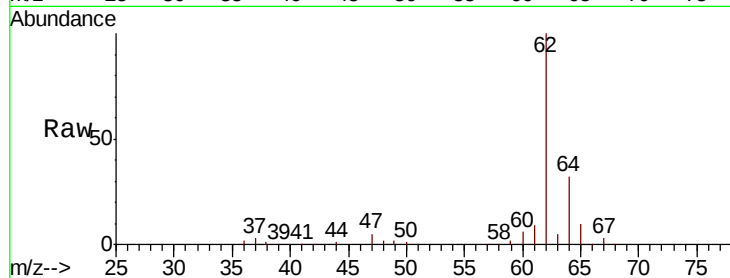
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 235381

Ion Ratio Lower Upper

62 100

64 32.4 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

250000

200000

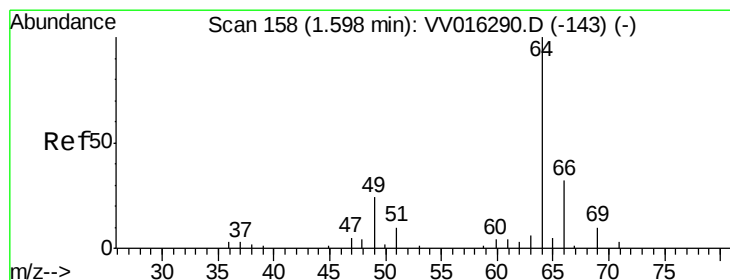
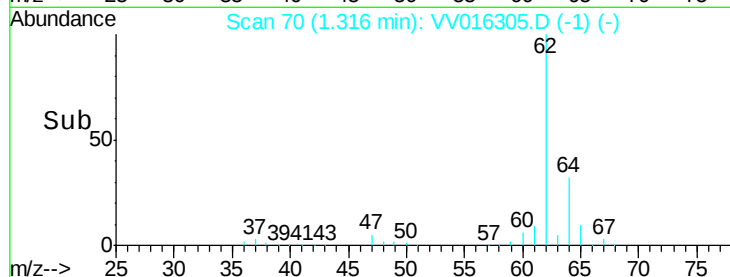
150000

100000

50000

0

Time-->



#8

Chloroethane

Concen: 3.000 ug/L

RT: 1.51 min Scan# 130

Delta R.T. -0.09 min

Lab File: VV016305.D

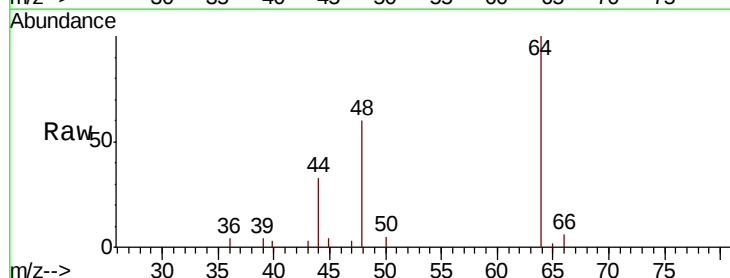
Acq: 29 May 2020 03:32

Tgt Ion: 64 Resp: 16227

Ion Ratio Lower Upper

64 100

66 6.3 22.9 42.5#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

80000

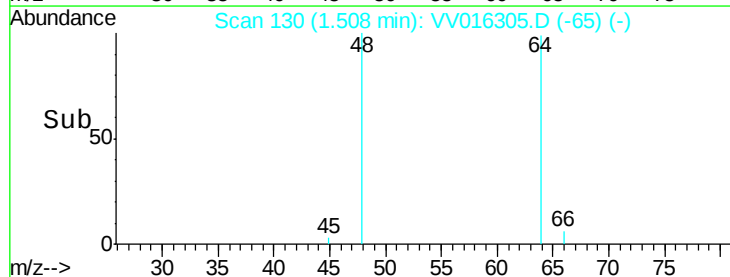
60000

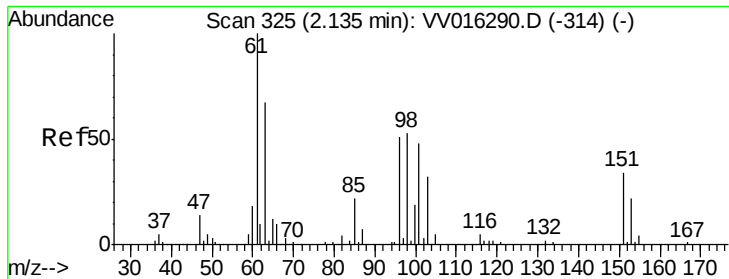
40000

20000

0

Time-->





#12

1,1-Dichloroethene

Concen: 0.212 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV016305.D

Acq: 29 May 2020 03:32

Instrument :
MSVOA_V
ClientSampleId :

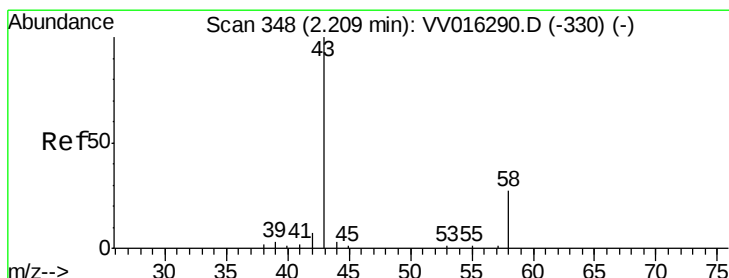
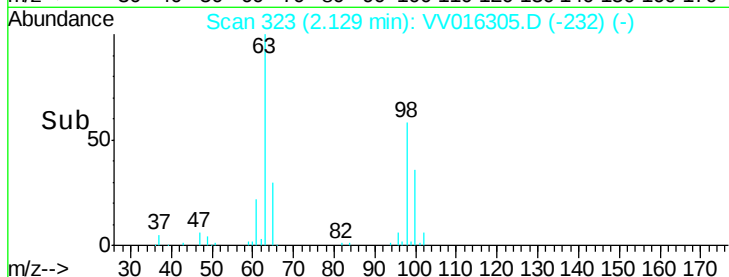
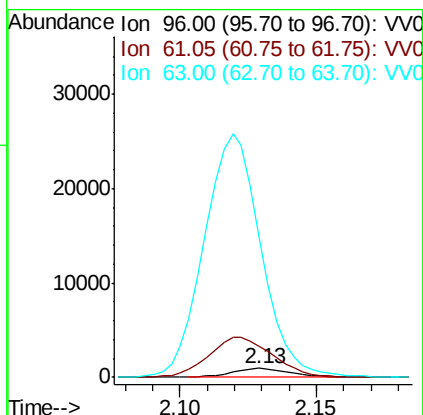
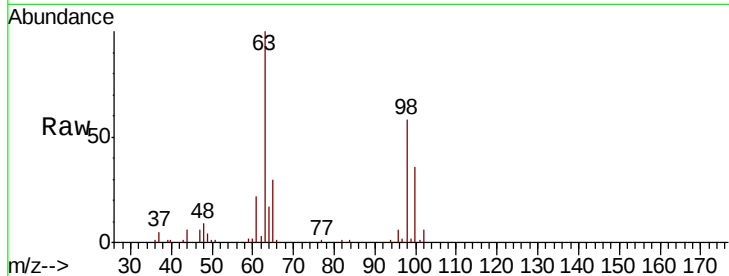
Tot Ion: 96 Resp: 1385

Ion Ratio Lower Upper

96 100

61 355.8 124.9 231.9#

63 1596.2 80.4 149.2#



#13

Acetone

Concen: 62.540 ug/L

RT: 2.26 min Scan# 365

Delta R.T. 0.05 min

Lab File: VV016305.D

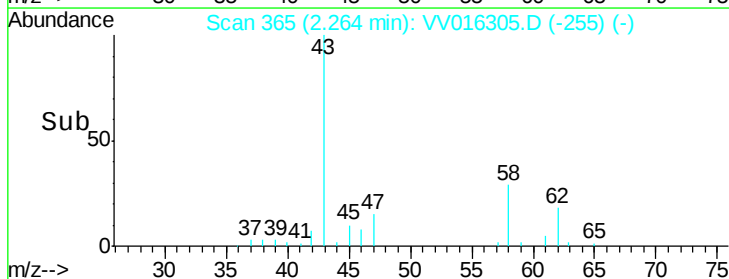
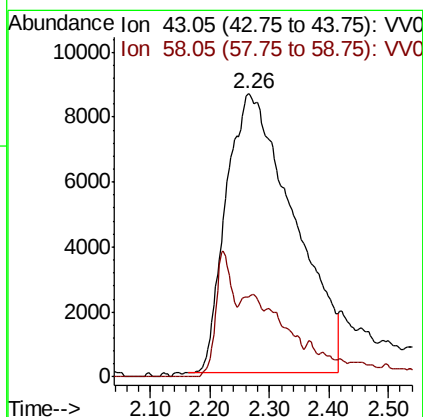
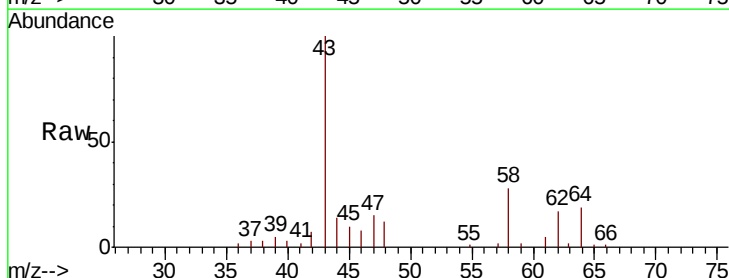
Acq: 29 May 2020 03:32

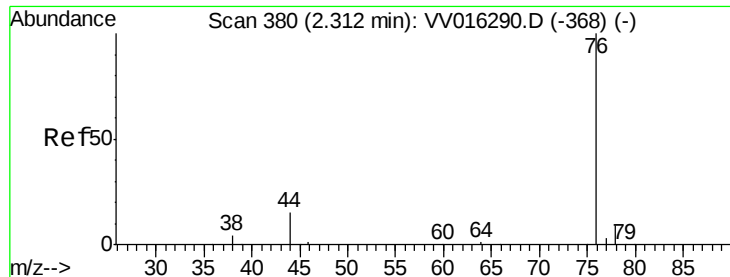
Tgt Ion: 43 Resp: 68177

Ion Ratio Lower Upper

43 100

58 2.7 0.0 48.8





#14

Carbon disulfide

Concen: 0.061 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VV016305.D

Acq: 29 May 2020 03:32

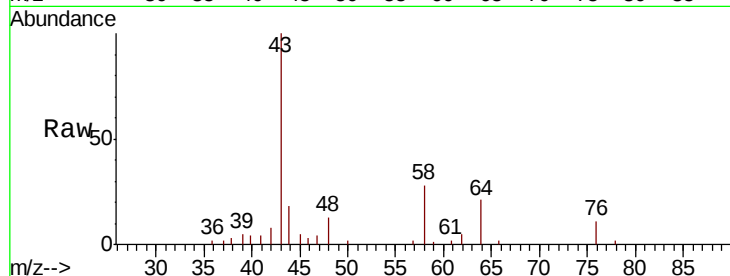
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 76 Resp: 1242

Ion Ratio Lower Upper

76 100

78 16.9 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

800

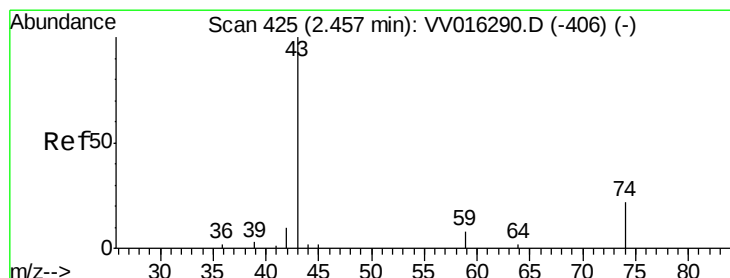
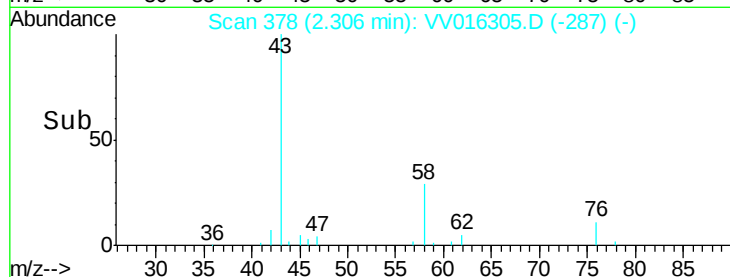
600

400

200

0

Time-->



#15

Methyl Acetate

Concen: 24.474 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.19 min

Lab File: VV016305.D

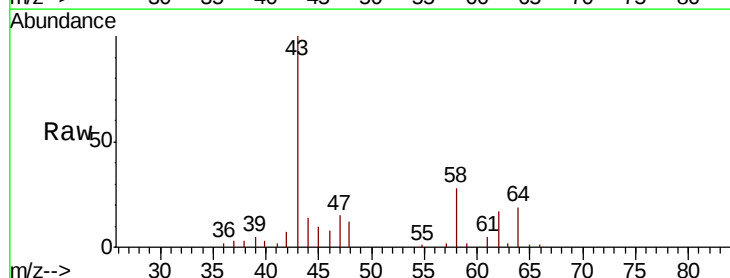
Acq: 29 May 2020 03:32

Tgt Ion: 43 Resp: 68177

Ion Ratio Lower Upper

43 100

74 0.0 18.1 27.1#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

10000

8000

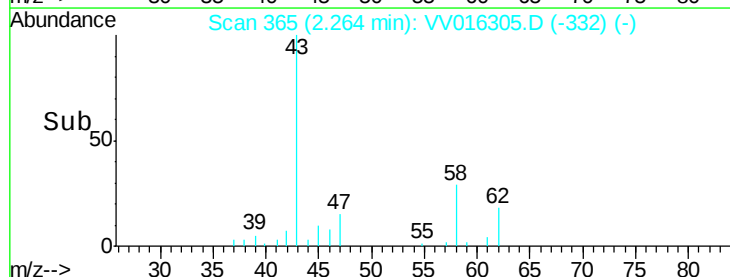
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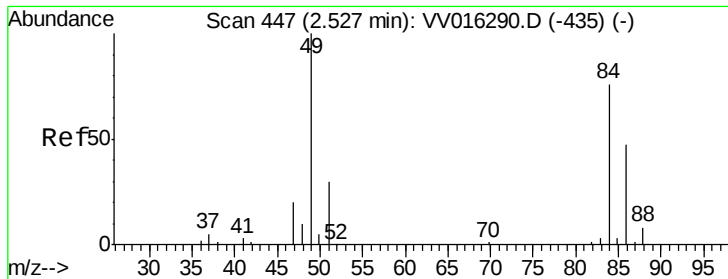
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2000

0

Time-->

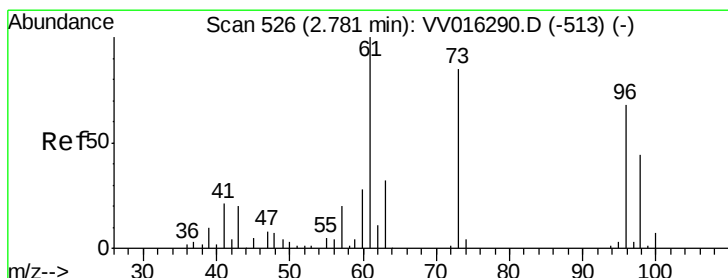
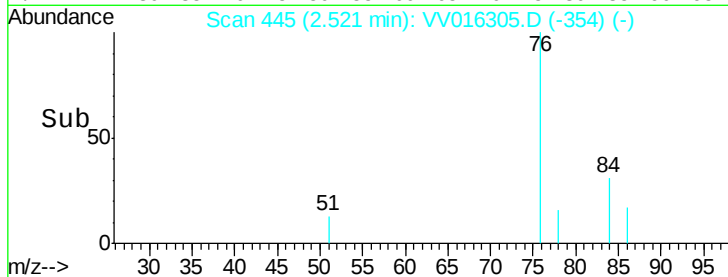
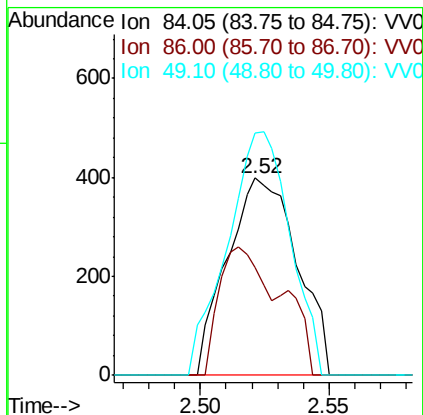
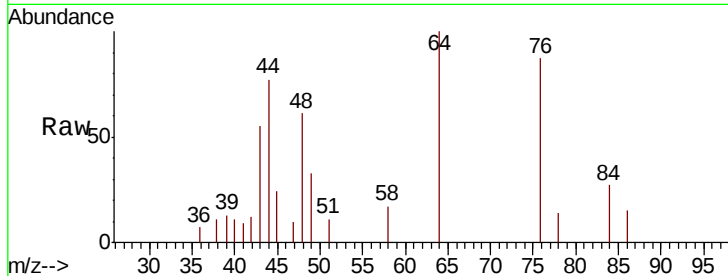




#16
Methylene chloride
Concen: 0.101 ug/L
RT: 2.52 min Scan# 445
Delta R.T. -0.01 min
Lab File: VV016305.D
Acq: 29 May 2020 03:32

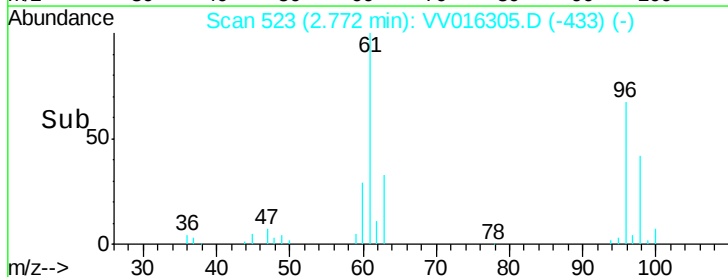
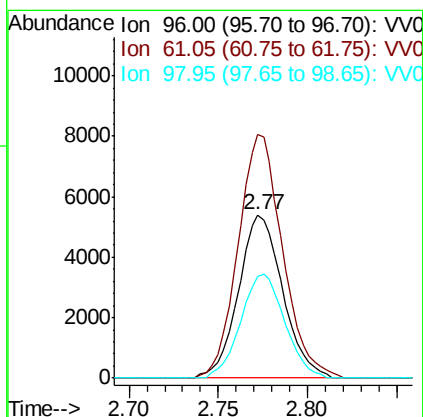
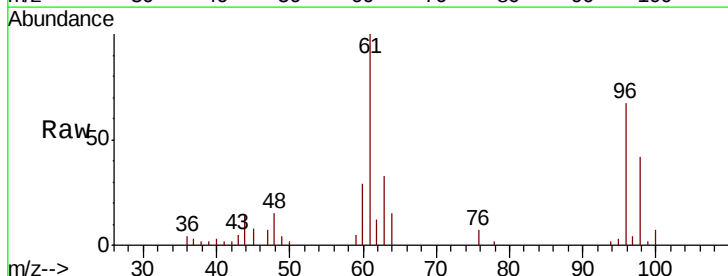
Instrument :
MSVOA_V
ClientSampleId :

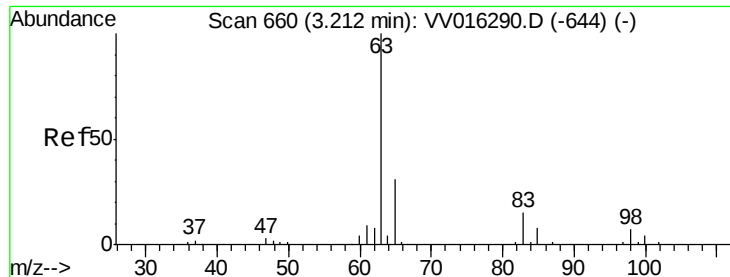
Tot Ion: 84 Resp: 754
Ion Ratio Lower Upper
84 100
86 54.4 44.9 83.5
49 122.8 96.7 179.7



#18
trans-1,2-Dichloroethene
Concen: 1.314 ug/L
RT: 2.77 min Scan# 523
Delta R.T. -0.01 min
Lab File: VV016305.D
Acq: 29 May 2020 03:32

Tgt Ion: 96 Resp: 9373
Ion Ratio Lower Upper
96 100
61 149.1 99.8 185.4
98 61.9 44.0 81.6

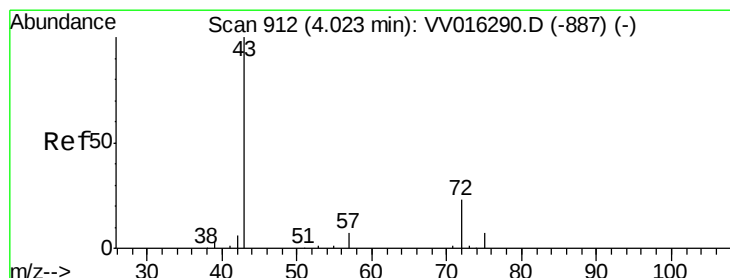
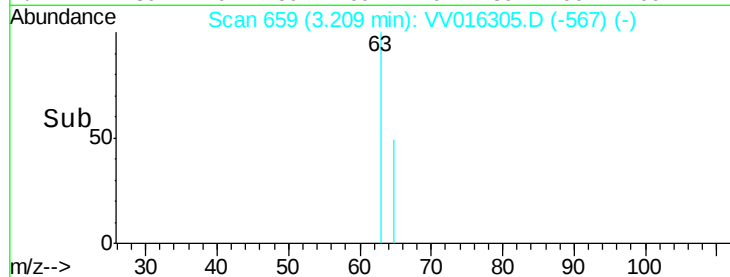
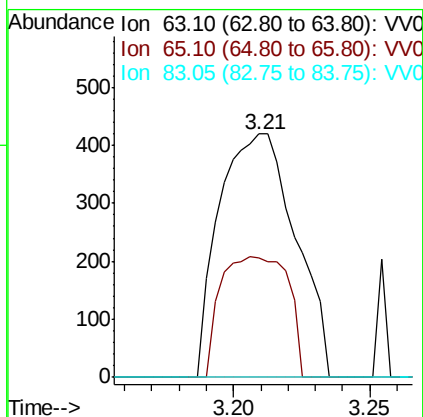
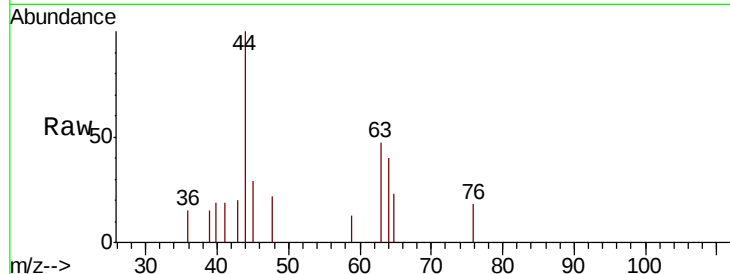




#19
 1,1-Dichloroethane
 Concen: 0.060 ug/L
 RT: 3.21 min Scan# 659
 Delta R.T. -0.00 min
 Lab File: VV016305.D
 Acq: 29 May 2020 03:32

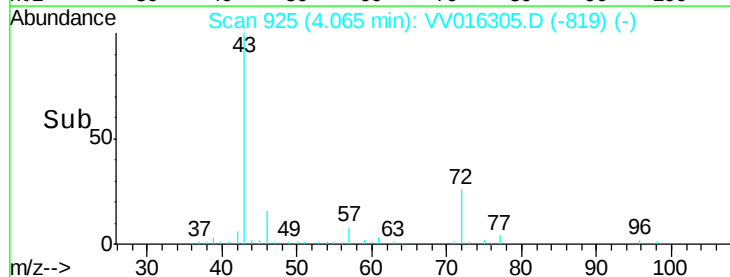
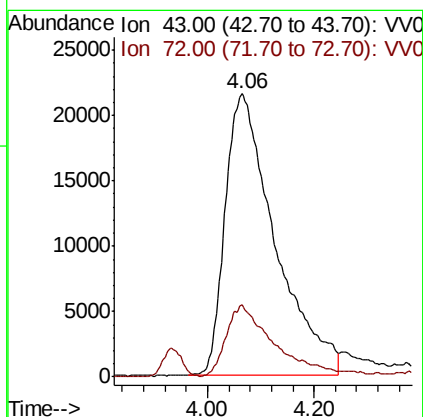
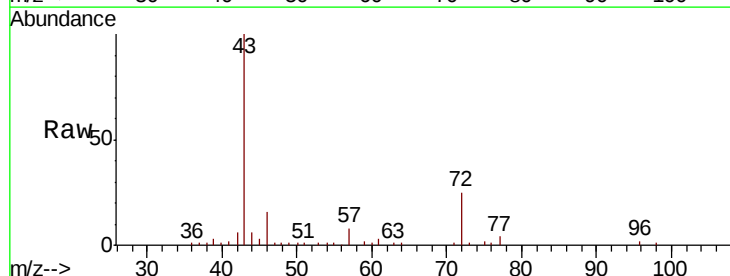
Instrument :
 MSVOA_V
 ClientSampled :

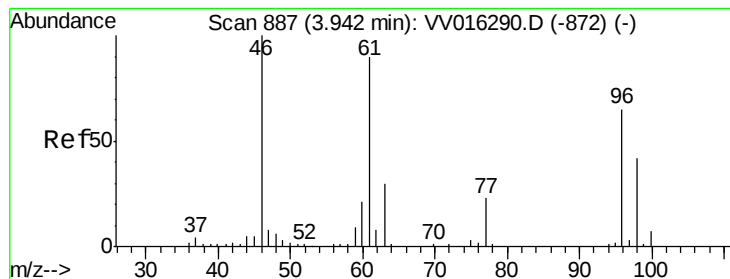
Tot Ion: 63 Resp: 812
 Ion Ratio Lower Upper
 63 100
 65 49.0 22.3 41.5#
 83 0.0 9.4 17.4#



#21
 2-Butanone
 Concen: 71.928 ug/L
 RT: 4.06 min Scan# 925
 Delta R.T. 0.04 min
 Lab File: VV016305.D
 Acq: 29 May 2020 03:32

Tgt Ion: 43 Resp: 139486
 Ion Ratio Lower Upper
 43 100
 72 22.1 9.7 28.9



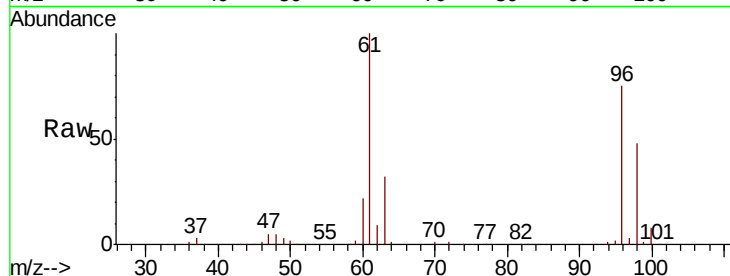


#22

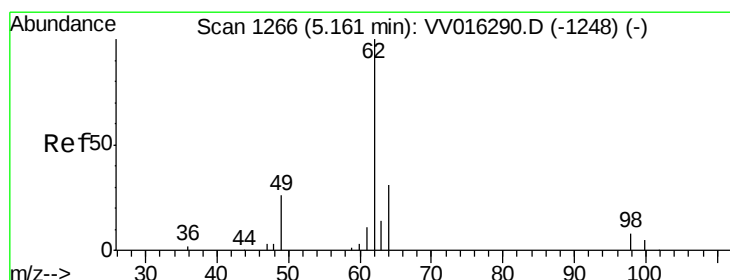
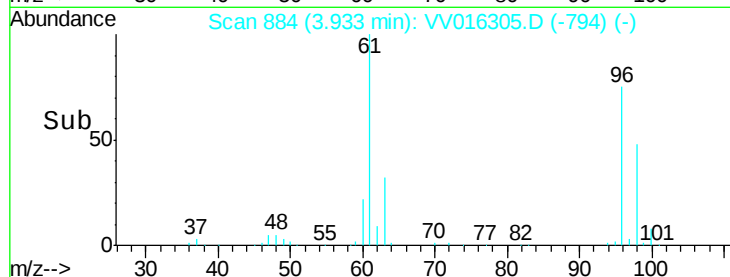
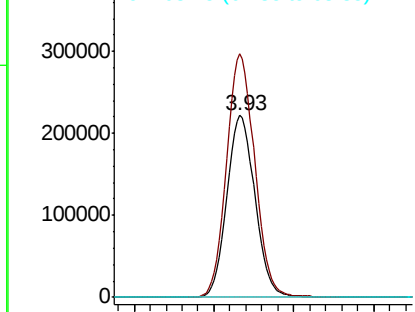
cis-1,2-Dichloroethene
 Concen: 63.067 ug/L
 RT: 3.93 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: VV016305.D
 Acq: 29 May 2020 03:32

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 96 Resp: 532231
 Ion Ratio Lower Upper
 96 100
 61 133.9 99.7 185.1
 68 0.0 0.0 0.0



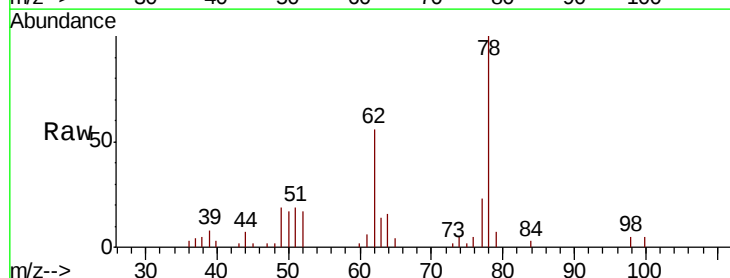
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



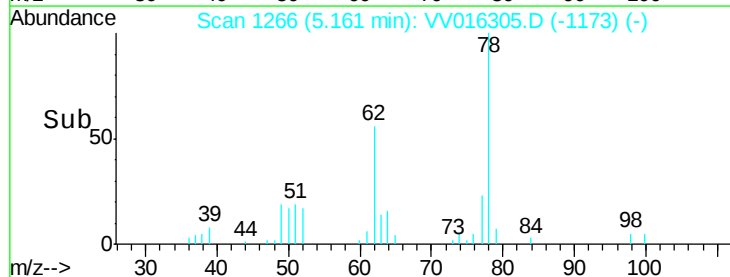
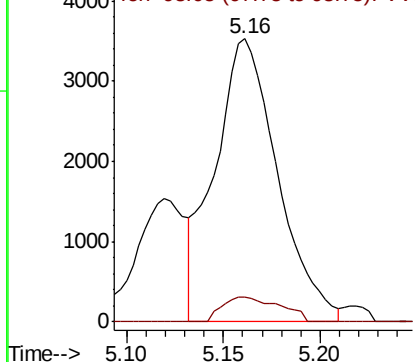
#27

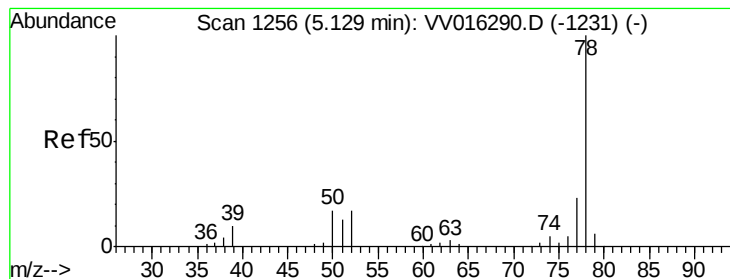
1,2-Dichloroethane
 Concen: 0.849 ug/L
 RT: 5.16 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: VV016305.D
 Acq: 29 May 2020 03:32

Tgt Ion: 62 Resp: 7958
 Ion Ratio Lower Upper
 62 100
 98 8.8 5.7 8.5#



Abundance Ion 62.00 (61.70 to 62.70): VV0
 Ion 98.05 (97.75 to 98.75): VV0





#33

Benzene

Concen: 12.348 ug/L

RT: 5.12 min Scan# 1254

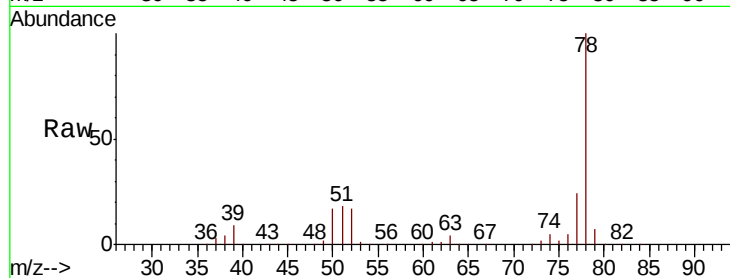
Delta R.T. -0.01 min

Lab File: VV016305.D

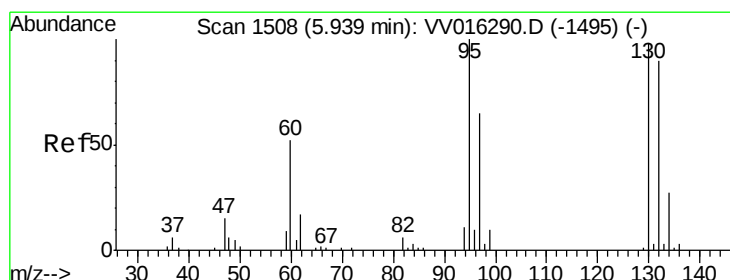
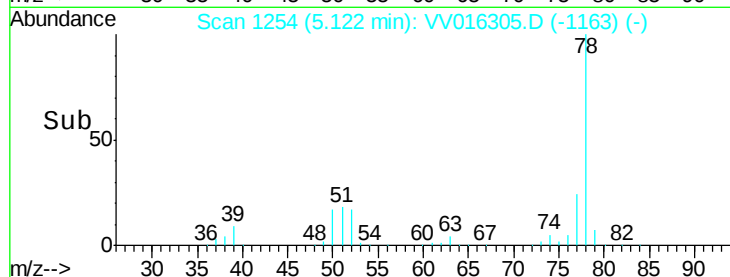
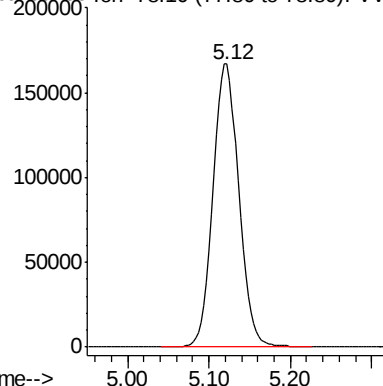
Acq: 29 May 2020 03:32

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 364789



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.575 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV016305.D

Acq: 29 May 2020 03:32

Tgt Ion: 95 Resp: 4426

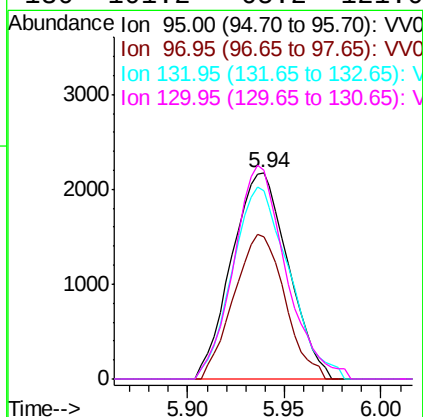
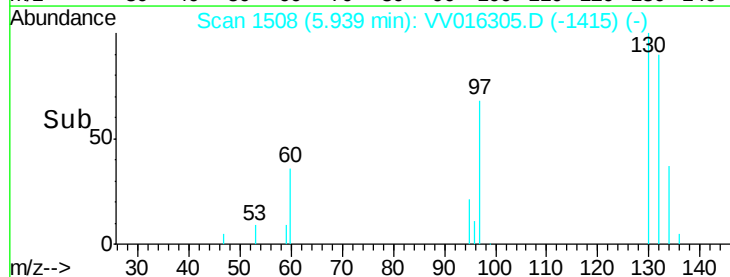
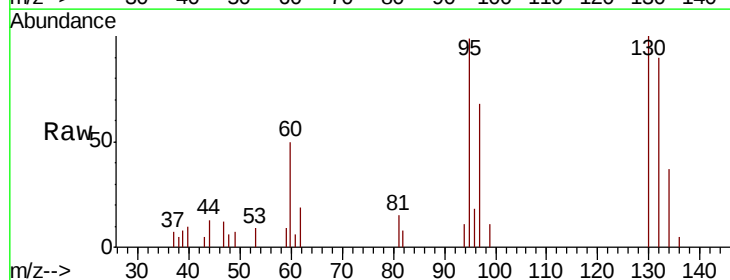
Ion	Ratio	Lower	Upper
95	100		
97	68.7	43.6	81.0
132	91.3	63.9	118.7
130	101.2	65.2	121.0

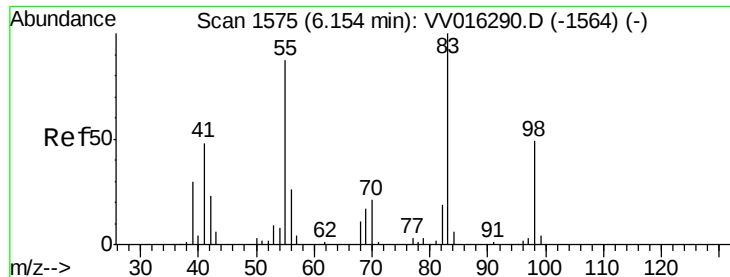
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

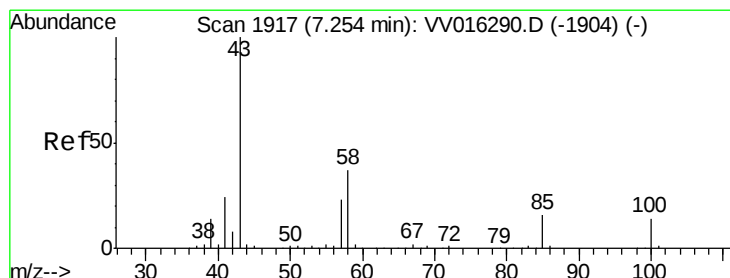
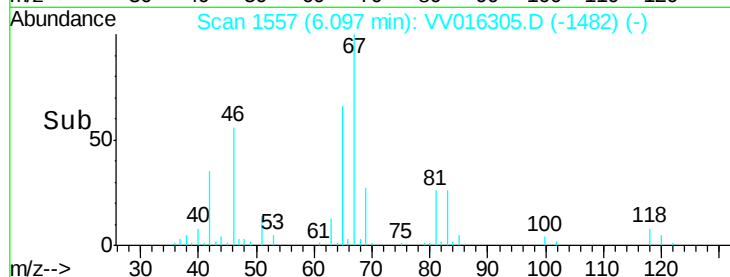
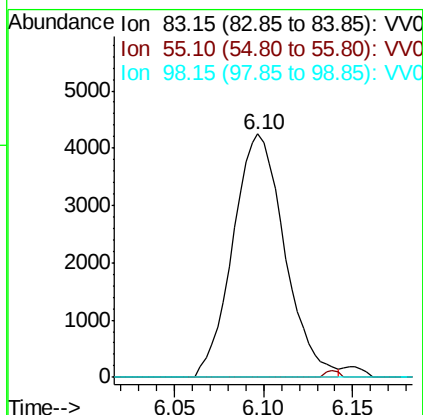
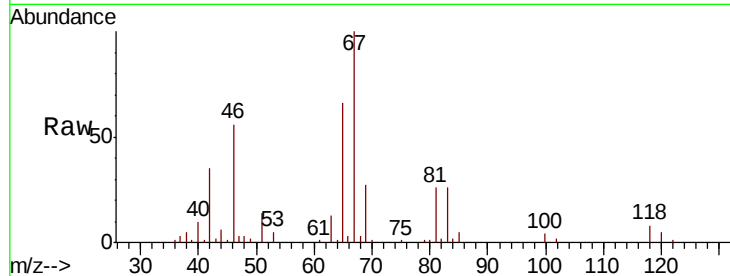




#35
Methylcyclohexane
Concen: 0.660 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.06 min
Lab File: VV016305.D
Acq: 29 May 2020 03:32

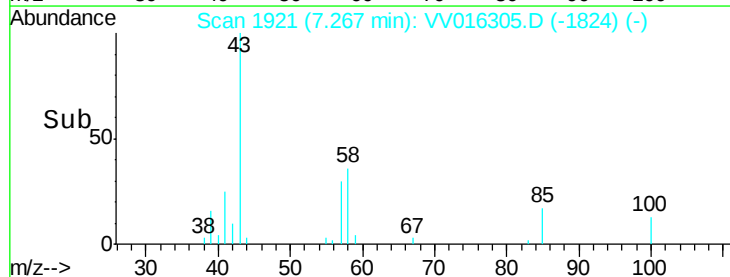
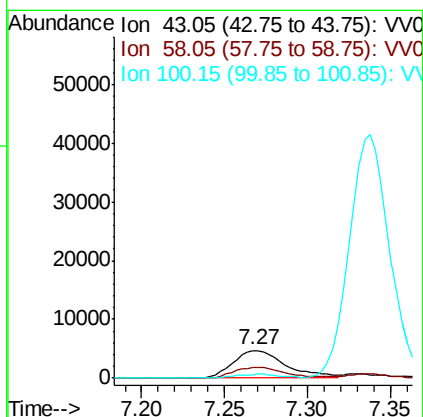
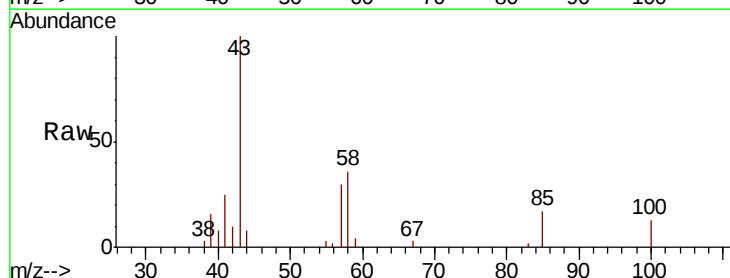
Instrument :
MSVOA_V
ClientSampled :

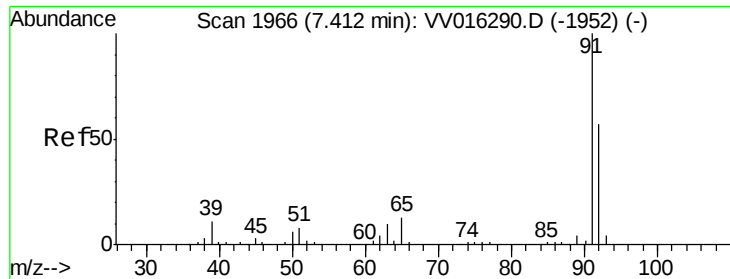
Tot Ion: 83 Resp: 8573
Ion Ratio Lower Upper
83 100
55 0.7 65.4 98.0#
98 0.3 39.3 58.9#



#40
4-Methyl-2-pentanone
Concen: 2.307 ug/L
RT: 7.27 min Scan# 1921
Delta R.T. 0.01 min
Lab File: VV016305.D
Acq: 29 May 2020 03:32

Tgt Ion: 43 Resp: 10400
Ion Ratio Lower Upper
43 100
58 37.4 29.5 44.3
100 0.0 11.1 16.7#





#42

Toluene

Concen: 14.215 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV016305.D

Acq: 29 May 2020 03:32

Instrument :

MSVOA_V

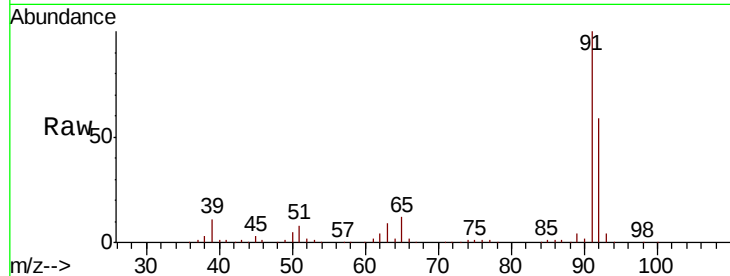
ClientSampleId :

Tot Ion: 91 Resp: 457972

Ion Ratio Lower Upper

91 100

92 59.1 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VV016290.D (-1952) (-)

Ion 92.15 (91.85 to 92.85): VV016290.D (-1952) (-)

7.41

300000

250000

200000

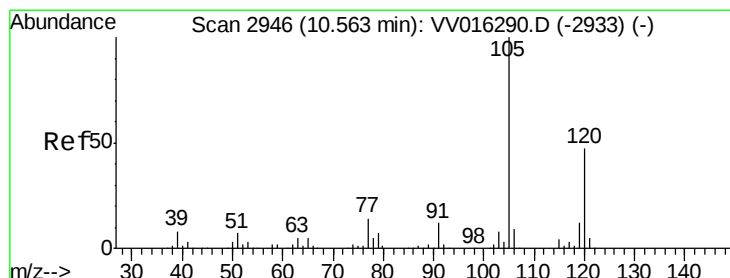
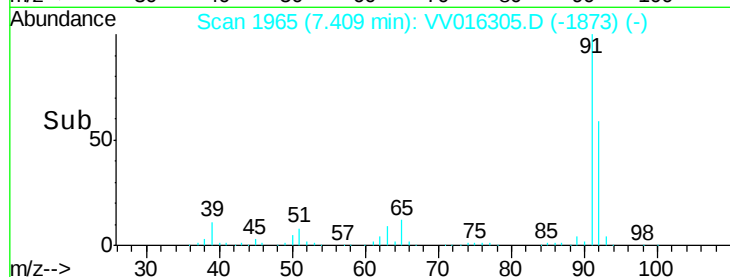
150000

100000

50000

0

Time-->



#43

1,3,5-Trimethylbenzene

Concen: 5.591 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VV016305.D

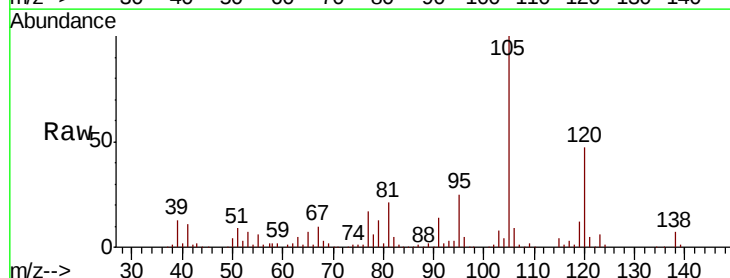
Acq: 29 May 2020 03:32

Tgt Ion:105 Resp: 163995

Ion Ratio Lower Upper

105 100

120 47.4 37.4 56.0



Abundance Ion 105.00 (104.70 to 105.70): VV016290.D (-2933) (-)

Ion 120.00 (119.70 to 120.70): VV016290.D (-2933) (-)

10.56

120000

100000

80000

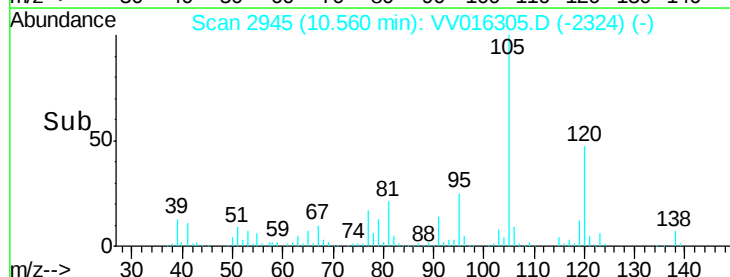
60000

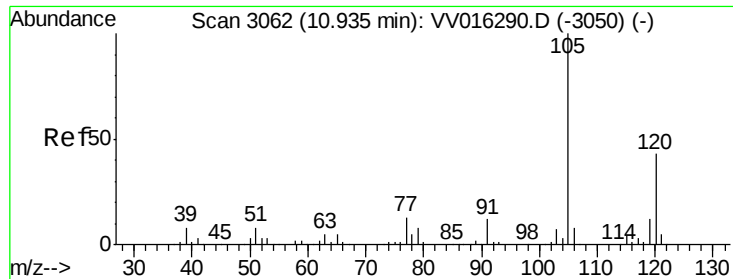
40000

20000

0

Time-->

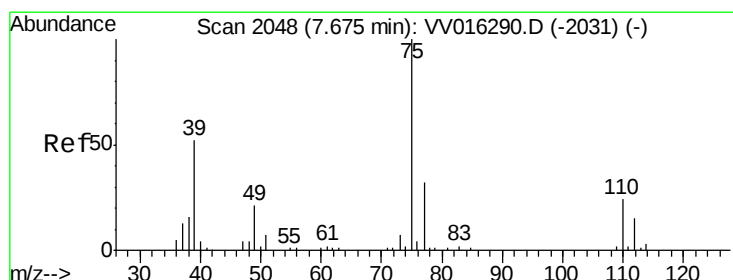
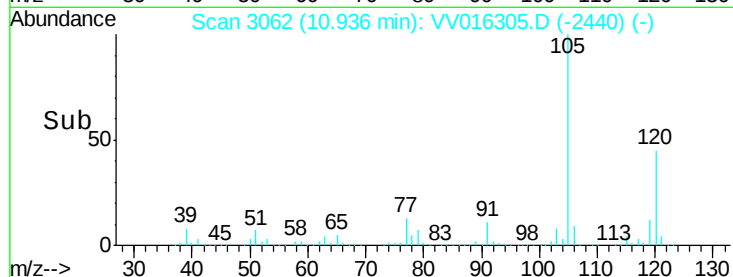
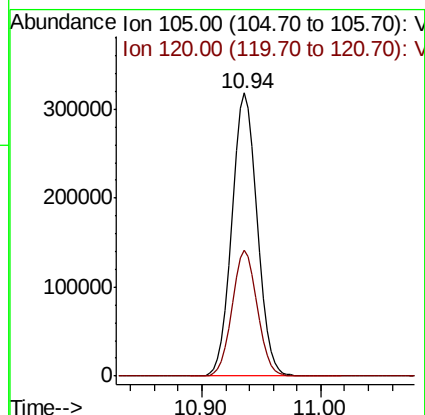
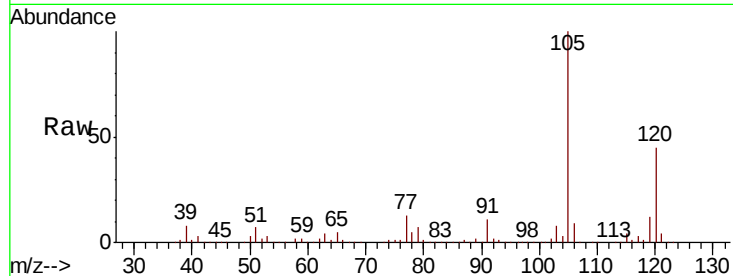




#44
 1,2,4-Trimethylbenzene
 Concen: 15.524 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. 0.00 min
 Lab File: VV016305.D
 Acq: 29 May 2020 03:32

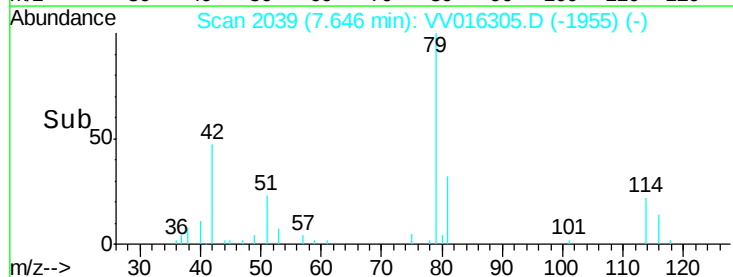
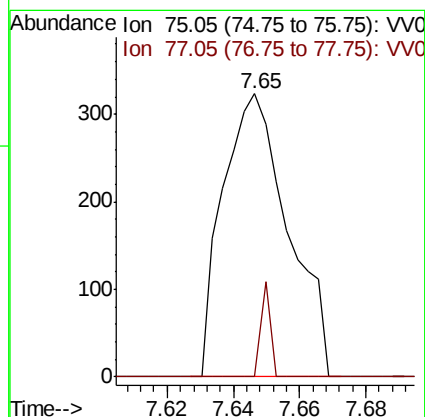
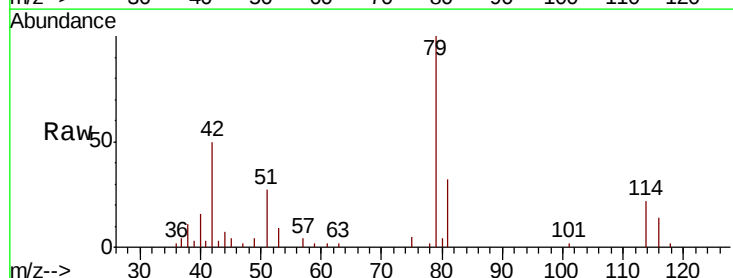
Instrument :
 MSVOA_V
 ClientSampled :

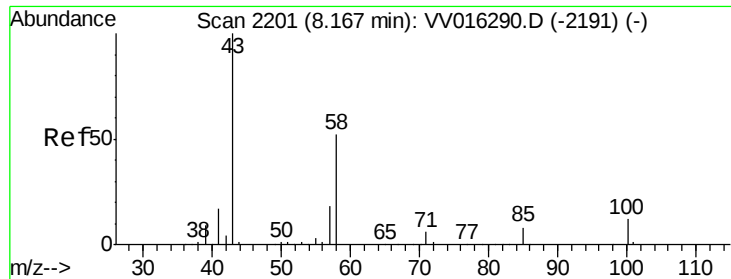
Tot Ion:105 Resp: 468957
 Ion Ratio Lower Upper
 105 100
 120 44.3 34.6 52.0



#46
 trans-1,3-Dichloropropene
 Concen: 0.052 ug/L
 RT: 7.65 min Scan# 2039
 Delta R.T. -0.03 min
 Lab File: VV016305.D
 Acq: 29 May 2020 03:32

Tgt Ion: 75 Resp: 444
 Ion Ratio Lower Upper
 75 100
 77 0.0 21.7 40.3#

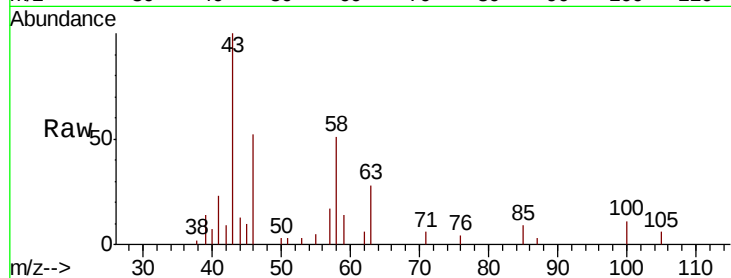




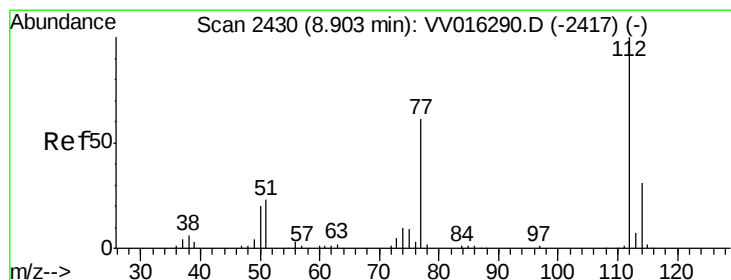
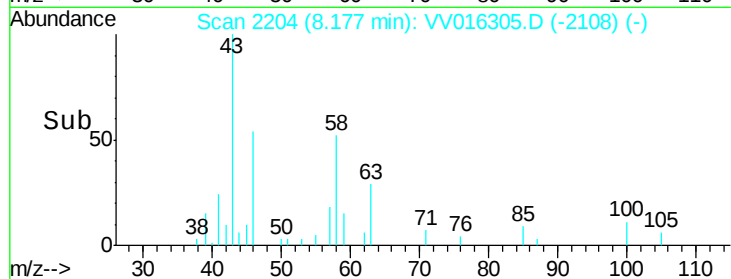
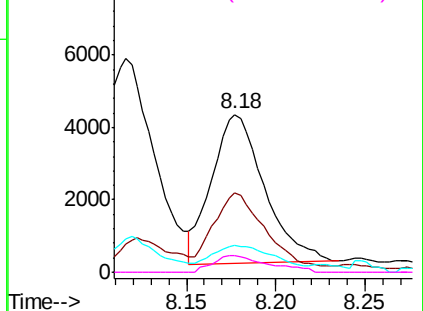
#50
2-Hexanone
Concen: 2.684 ug/L
RT: 8.18 min Scan# 2204
Delta R.T. 0.01 min
Lab File: VV016305.D
Acq: 29 May 2020 03:32

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 8439
Ion Ratio Lower Upper
43 100
58 55.4 41.4 62.0
57 21.5 15.0 22.4
100 11.7 9.0 13.4

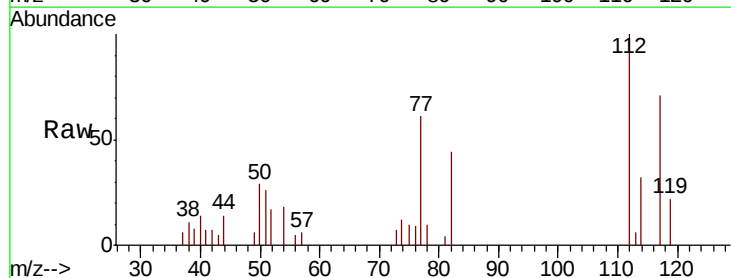


Abundance Ion 43.05 (42.75 to 43.75): VV016305.D (-2108) (-)
Ion 58.05 (57.75 to 58.75): VV016305.D (-2108) (-)
Ion 57.20 (56.90 to 57.90): VV016305.D (-2108) (-)
Ion 100.15 (99.85 to 100.85): VV016305.D (-2108) (-)

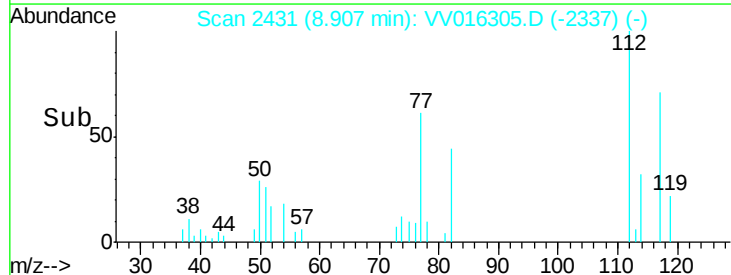
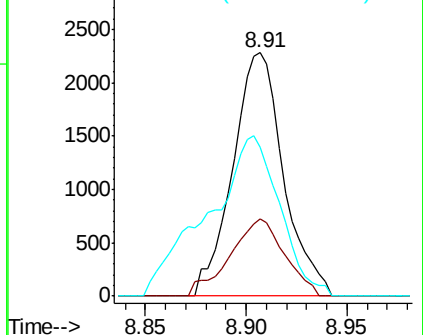


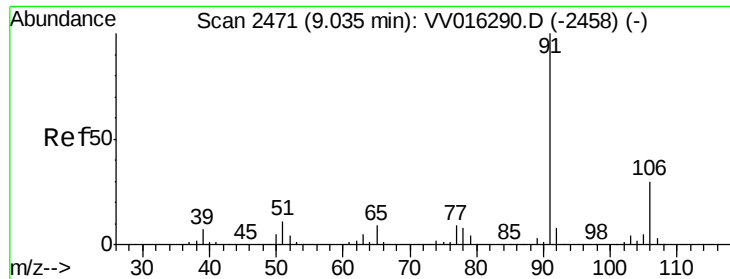
#53
Chlorobenzene
Concen: 0.202 ug/L
RT: 8.91 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VV016305.D
Acq: 29 May 2020 03:32

Tgt Ion: 112 Resp: 4021
Ion Ratio Lower Upper
112 100
114 31.6 22.3 41.3
77 61.3 50.7 76.1



Abundance Ion 112.10 (111.80 to 112.80): VV016305.D (-2337) (-)
Ion 114.05 (113.75 to 114.75): VV016305.D (-2337) (-)
Ion 77.10 (76.80 to 77.80): VV016305.D (-2337) (-)





#54

Ethylbenzene

Concen: 15.548 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV016305.D

Acq: 29 May 2020 03:32

Instrument :

MSVOA_V

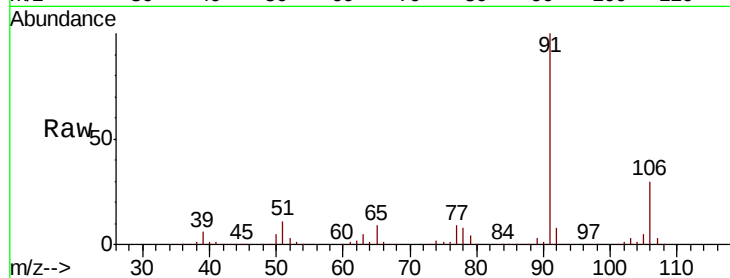
ClientSampleId :

Tot Ion: 91 Resp: 558371

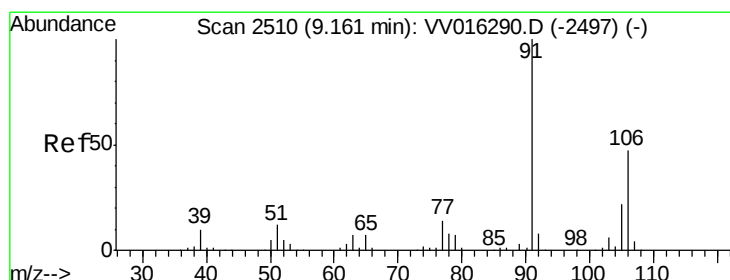
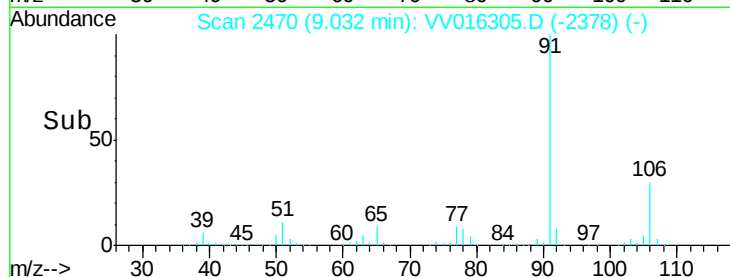
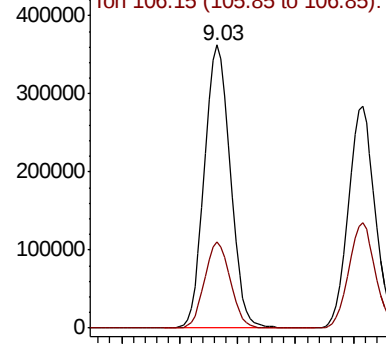
Ion Ratio Lower Upper

91 100

106 30.3 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VV016305.D (-2378) (-)



#55

m,p-xylene

Concen: 16.118 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV016305.D

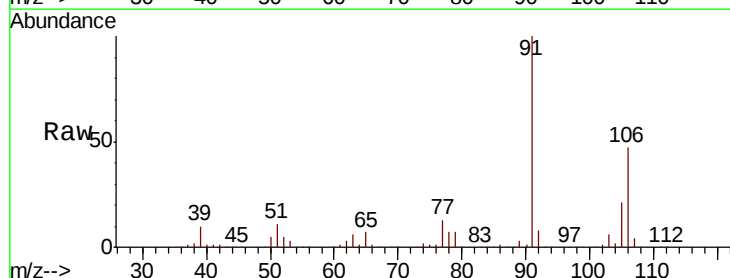
Acq: 29 May 2020 03:32

Tgt Ion: 106 Resp: 217044

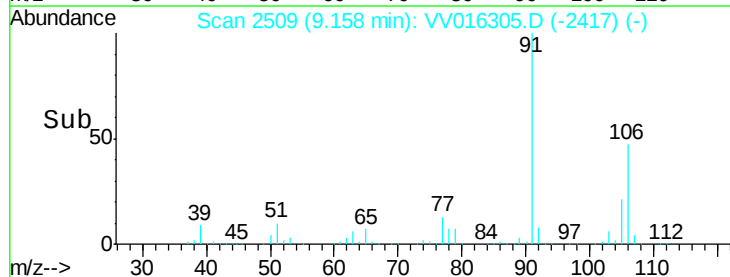
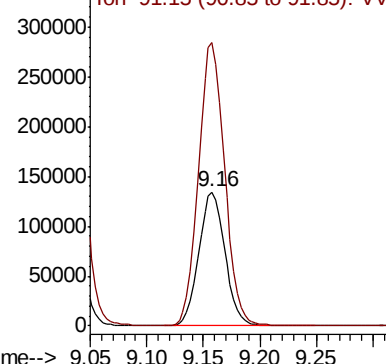
Ion Ratio Lower Upper

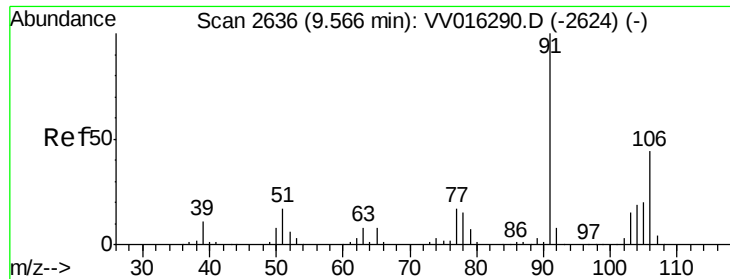
106 100

91 211.2 148.1 275.0



Abundance Ion 106.15 (105.85 to 106.85): VV016305.D (-2417) (-)

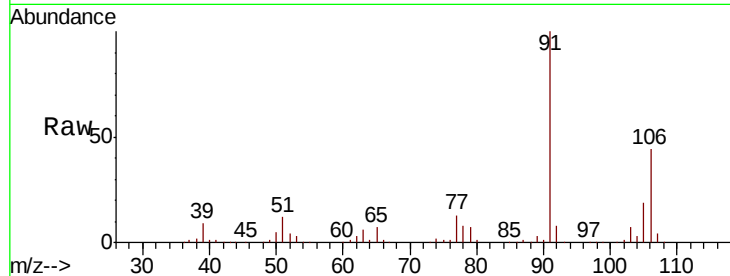




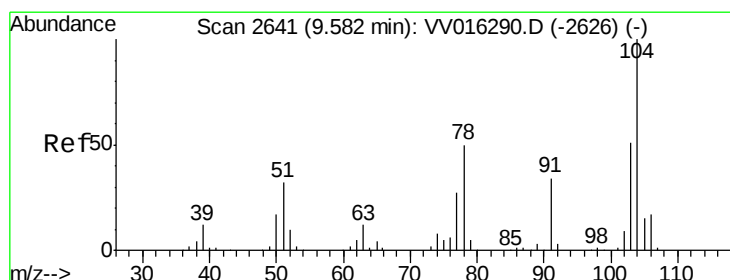
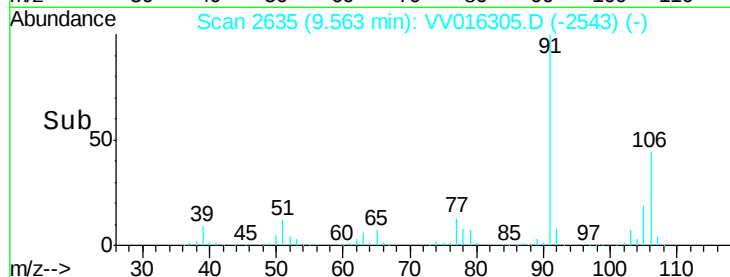
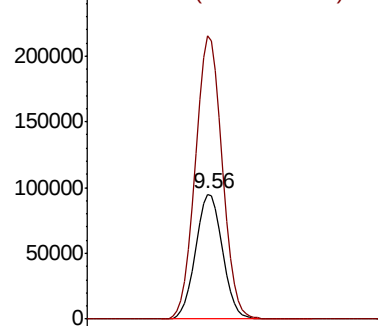
#56
o-xylene
Concen: 11.599 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.00 min
Lab File: VV016305.D
Acq: 29 May 2020 03:32

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 148843
Ion Ratio Lower Upper
106 100
91 225.9 158.8 294.8

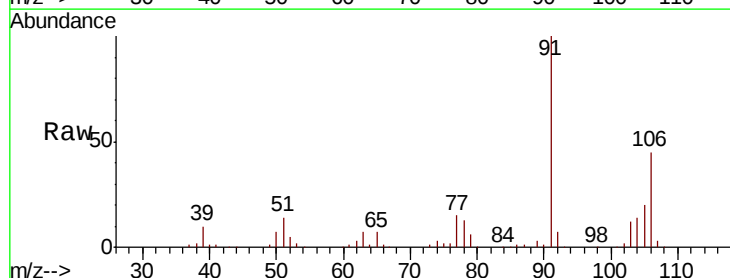


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

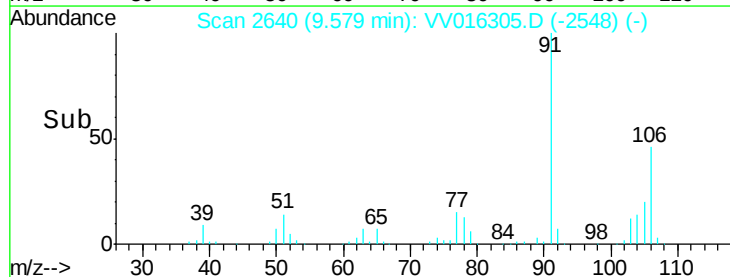
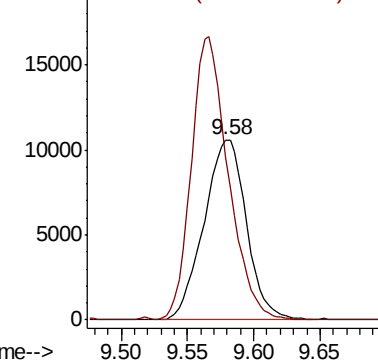


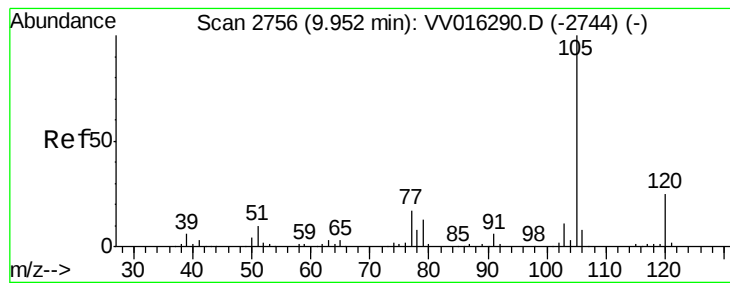
#57
Styrene
Concen: 1.101 ug/L
RT: 9.58 min Scan# 2640
Delta R.T. -0.00 min
Lab File: VV016305.D
Acq: 29 May 2020 03:32

Tgt Ion:104 Resp: 23516
Ion Ratio Lower Upper
104 100
78 90.5 33.2 61.7#



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0





#58

Isopropylbenzene

Concen: 1.371 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV016305.D

Acq: 29 May 2020 03:32

Instrument :
MSVOA_V
ClientSampleId :

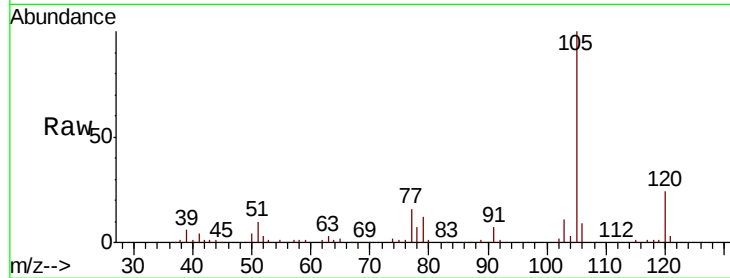
Tot Ion:105 Resp: 48208

Ion Ratio Lower Upper

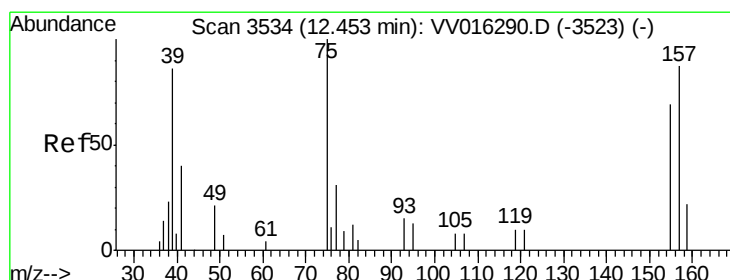
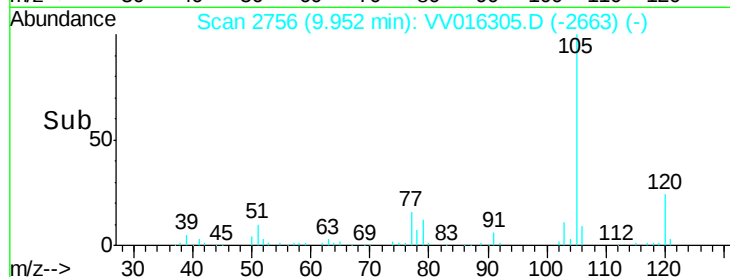
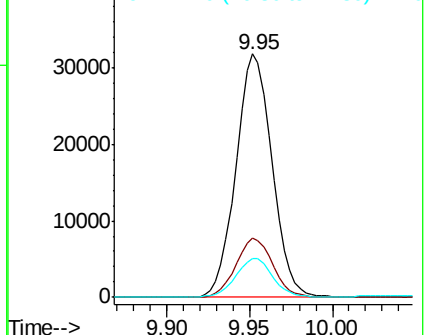
105 100

120 24.7 20.9 31.3

77 16.4 13.9 20.9



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): V



#67

1,2-Dibromo-3-chloropropane

Concen: 36.631 ug/L

RT: 12.49 min Scan# 3544

Delta R.T. 0.03 min

Lab File: VV016305.D

Acq: 29 May 2020 03:32

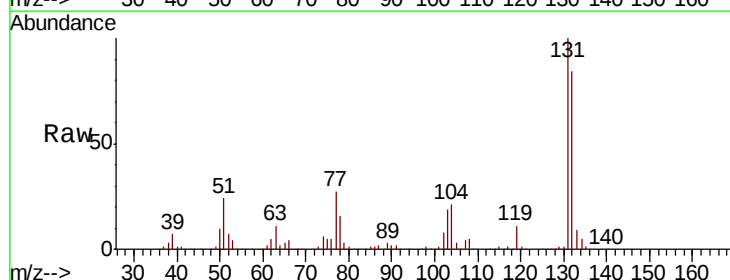
Tgt Ion: 75 Resp: 35847

Ion Ratio Lower Upper

75 100

155 0.0 56.2 84.4#

157 0.0 71.9 107.9#



Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 154.95 (154.65 to 155.65): V
Ion 156.90 (156.60 to 157.60): V

