

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052720\
 Data File : VV016251.D
 Acq On : 28 May 2020 00:59
 Operator : SY/MD
 Sample : L2766-08
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 28 06:35:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 28 06:30:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	100933	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	95673	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	46531	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	27166	4.19	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.80%
7) Chloroethane-d5	1.58	69	25748	4.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.40%
11) 1,1-Dichloroethene-d2	2.13	63	39531	3.25	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.00%
20) 2-Butanone-d5	3.94	46	84170	52.35	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.70%
24) Chloroform-d	4.38	84	57242	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.60%
26) 1,2-Dichloroethane-d4	5.06	65	31110	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.00%
32) Benzene-d6	5.08	84	111500	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
36) 1,2-Dichloropropane-d6	6.10	67	35094	4.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.80%
41) Toluene-d8	7.34	98	101661	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
45) trans-1,3-Dichloropropene-	7.65	79	12199	4.46	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.20%
48) 2-Hexanone-d5	8.12	63	59279	47.29	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.58%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	24882	4.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.80%
65) 1,2-Dichlorobenzene-d4	11.65	152	37260	4.79	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

					Ovalue
8) Chloroethane	1.60	64	23021	4.661 ug/L #	82
13) Acetone	2.21	43	4659	4.681 ug/L	72
14) Carbon disulfide	2.32	76	816	0.044 ug/L #	56
15) Methyl Acetate	2.55	43	32450	12.758 ug/L #	53
17) Methyl tert-butyl Ether	2.79	73	11238	0.767 ug/L #	1
19) 1,1-Dichloroethane	3.21	63	813	0.066 ug/L #	87
22) cis-1,2-Dichloroethene	3.95	96	943	0.122 ug/L	96
25) Chloroform	4.40	83	7848	0.599 ug/L	94
27) 1,2-Dichloroethane	5.13	62	13451	1.571 ug/L #	79
30) Cyclohexane	4.70	56	8411	0.691 ug/L	97
33) Benzene	5.13	78	1318914	47.906 ug/L	100
35) Methylcyclohexane	6.16	83	6703	0.554 ug/L	96
37) 1,2-Dichloropropane	6.10	63	4088	0.605 ug/L #	88
39) cis-1,3-Dichloropropene	7.02	75	884	0.092 ug/L #	68
42) Toluene	7.41	91	17705	0.590 ug/L	99
43) 1,3,5-Trimethylbenzene	10.56	105	11979	0.438 ug/L	99
44) 1,2,4-Trimethylbenzene	10.94	105	32448	1.153 ug/L	99

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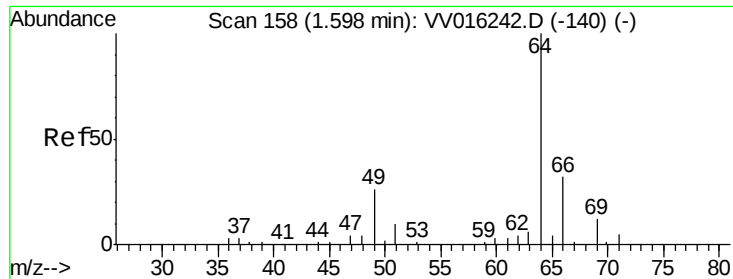
Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 28 06:35:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

46) trans-1,3-Dichloropropene	7.64	75	448	0.056	ug/L #	44
50) 2-Hexanone	8.12	43	9368	3.197	ug/L #	69
53) Chlorobenzene	8.90	112	166757	8.988	ug/L	99
54) Ethylbenzene	9.04	91	35375	1.057	ug/L	98
55) m,p-xylene	9.16	106	98623	7.859	ug/L	100
56) o-xylene	9.57	106	16749	1.401	ug/L	99
58) Isopropylbenzene	9.95	105	87644	2.675	ug/L	100
63) 1,3-Dichlorobenzene	11.21	146	1689	0.119	ug/L	94
64) 1,4-Dichlorobenzene	11.30	146	15378	1.066	ug/L	96
66) 1,2-Dichlorobenzene	11.67	146	23454	1.827	ug/L	99
70) Naphthalene	13.53	128	6266	0.325	ug/L	98

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



#8

Chloroethane

Concen: 4.661 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV016251.D

Acq: 28 May 2020 00:59

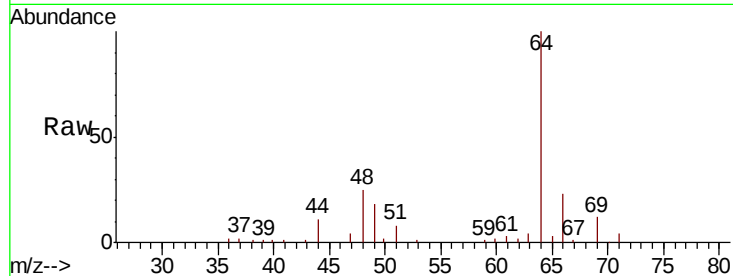
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 64 Resp: 23021

Ion Ratio Lower Upper

64 100

66 22.7 22.9 42.5#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

25000

20000

15000

10000

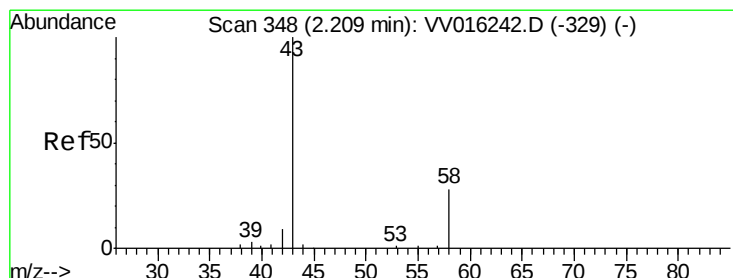
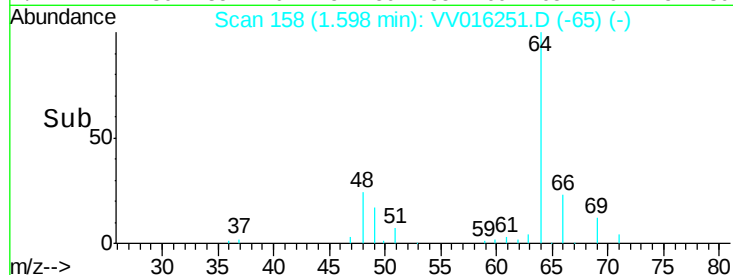
5000

0

Time-->

1.55 1.60 1.65 1.70

1.60



#13

Acetone

Concen: 4.681 ug/L

RT: 2.21 min Scan# 349

Delta R.T. 0.00 min

Lab File: VV016251.D

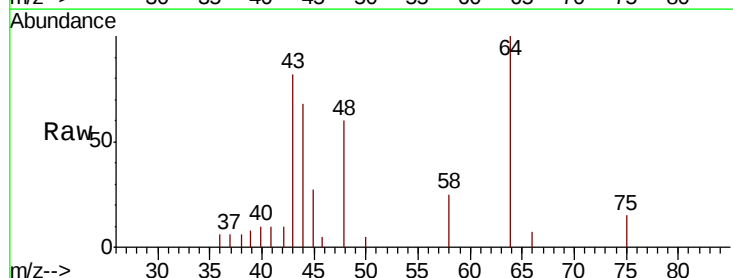
Acq: 28 May 2020 00:59

Tgt Ion: 43 Resp: 4659

Ion Ratio Lower Upper

43 100

58 38.4 0.0 48.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2000

1500

1000

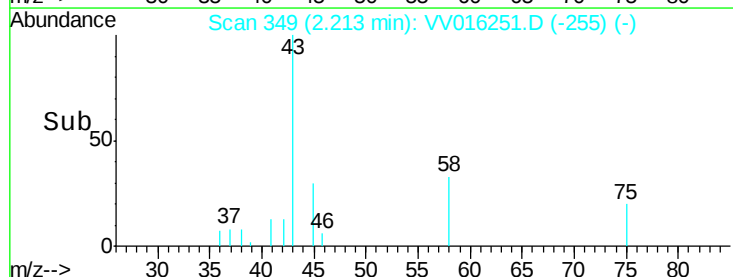
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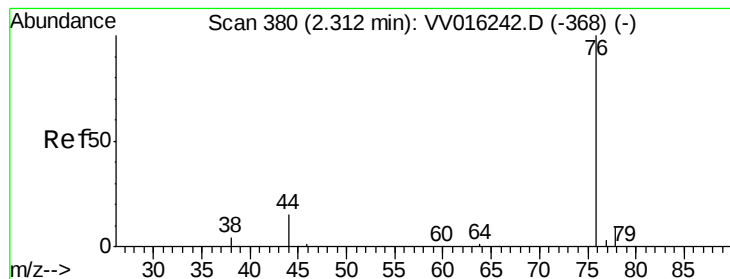
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Time-->

2.15 2.20 2.25 2.30

2.21





#14

Carbon disulfide

Concen: 0.044 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VV016251.D

Acq: 28 May 2020 00:59

Instrument :

MSVOA_V

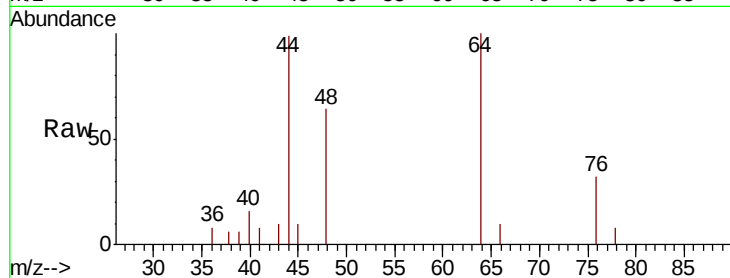
ClientSampled :

Tot Ion: 76 Resp: 816

Ion Ratio Lower Upper

76 100

78 25.2 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.32

500

400

300

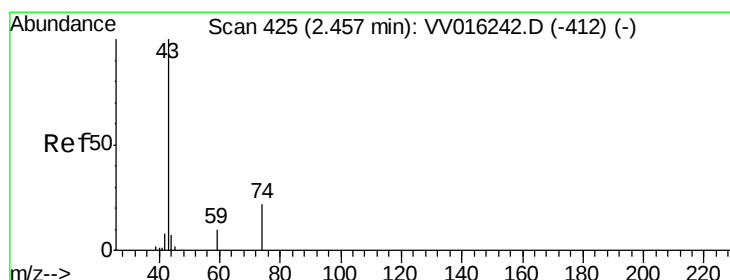
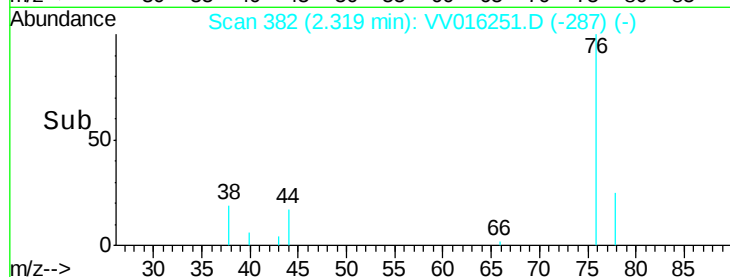
200

100

0

Time-->

2.28 2.30 2.32 2.34



#15

Methyl Acetate

Concen: 12.758 ug/L

RT: 2.55 min Scan# 454

Delta R.T. 0.09 min

Lab File: VV016251.D

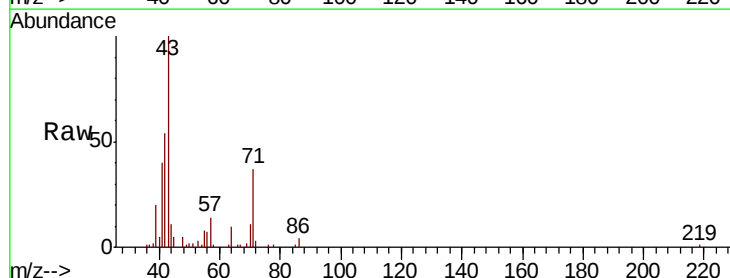
Acq: 28 May 2020 00:59

Tgt Ion: 43 Resp: 32450

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

2.55

15000

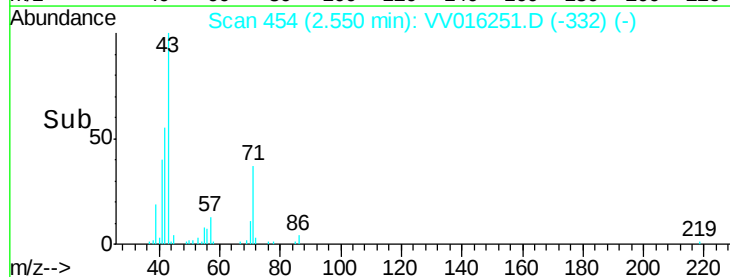
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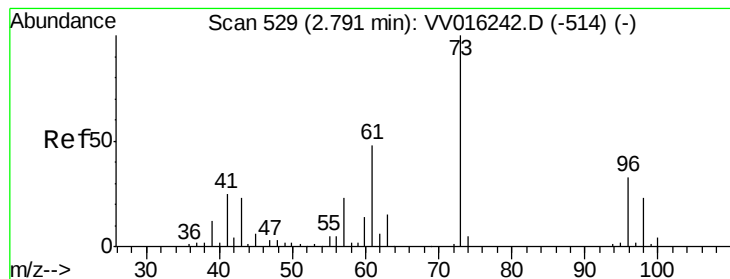
5000

0

Time-->

2.50 2.60



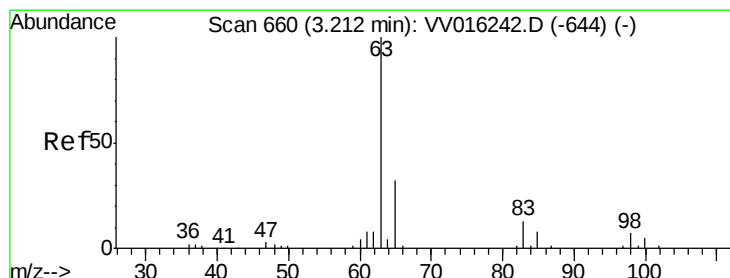
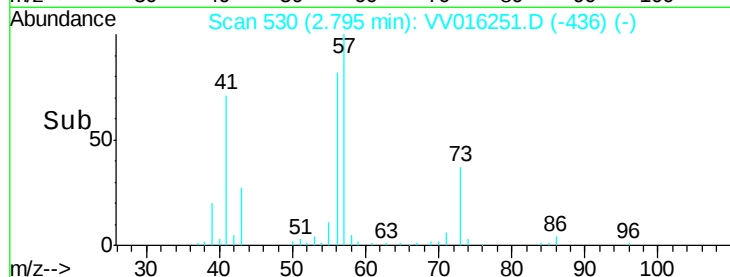
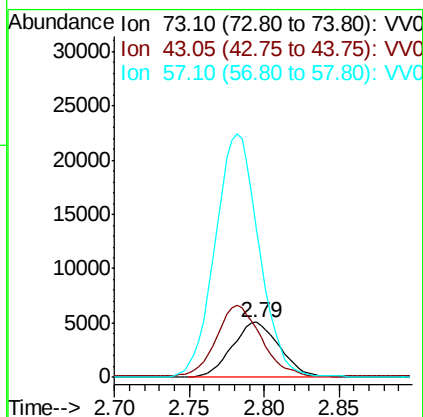
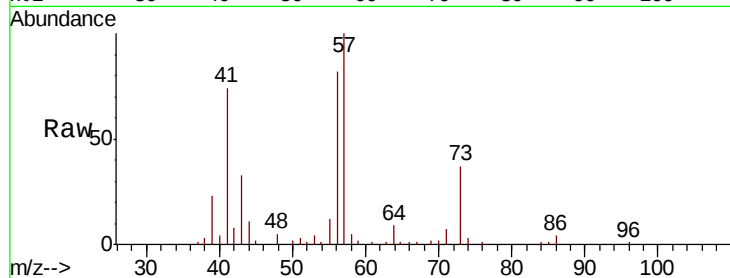


#17

Methvl tert-butvl Ether
 Concen: 0.767 ug/L
 RT: 2.79 min Scan# 530
 Delta R.T. 0.00 min
 Lab File: VV016251.D
 Acq: 28 May 2020 00:59

Instrument :
 MSVOA_V
 ClientSampled :

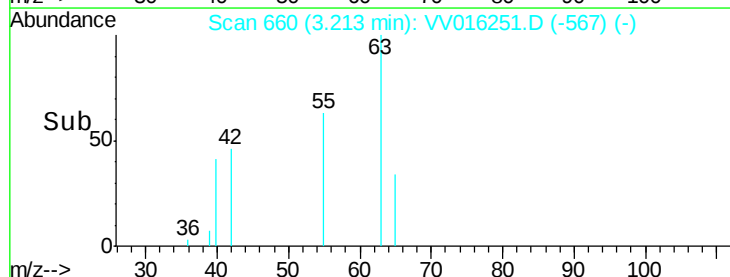
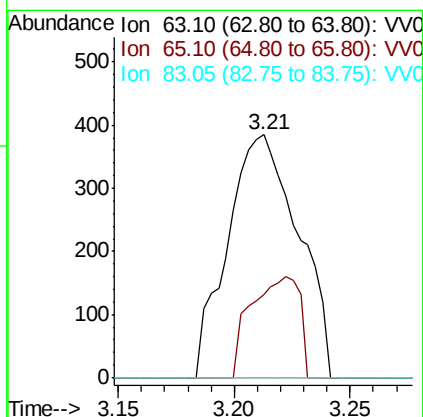
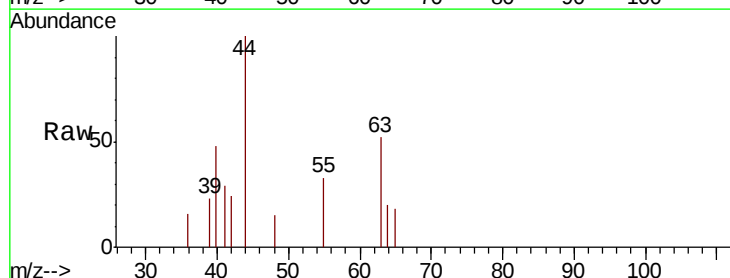
Tot Ion: 73 Resp: 11238
 Ion Ratio Lower Upper
 73 100
 43 120.1 17.8 26.8#
 57 408.5 18.9 28.3#

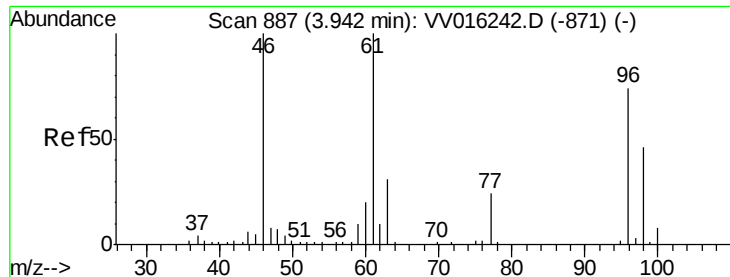


#19

1,1-Dichloroethane
 Concen: 0.066 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VV016251.D
 Acq: 28 May 2020 00:59

Tgt Ion: 63 Resp: 813
 Ion Ratio Lower Upper
 63 100
 65 34.0 22.3 41.5
 83 0.0 9.4 17.4#

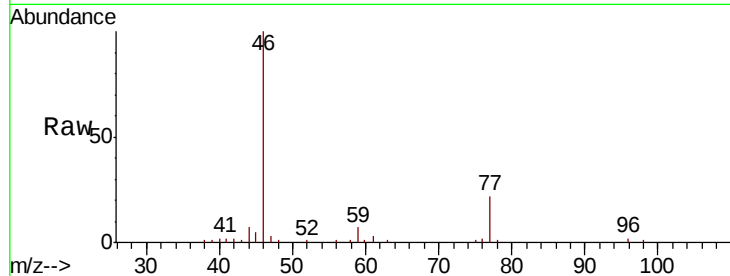




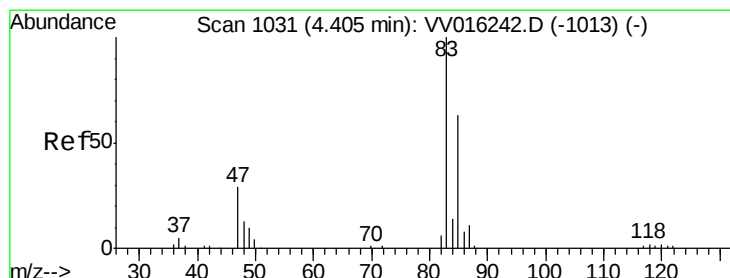
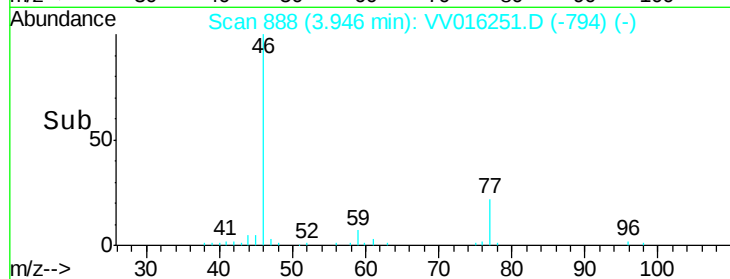
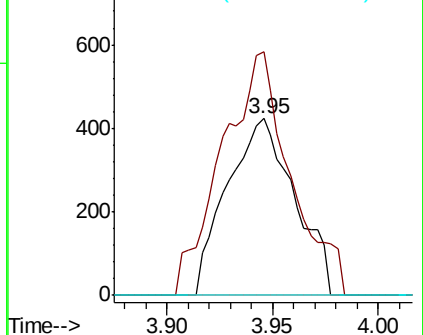
#22
 cis-1,2-Dichloroethene
 Concen: 0.122 ug/L
 RT: 3.95 min Scan# 888
 Delta R.T. 0.00 min
 Lab File: VV016251.D
 Acq: 28 May 2020 00:59

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 96 Resp: 943
 Ion Ratio Lower Upper
 96 100
 61 137.8 99.7 185.1
 68 0.0 0.0 0.0

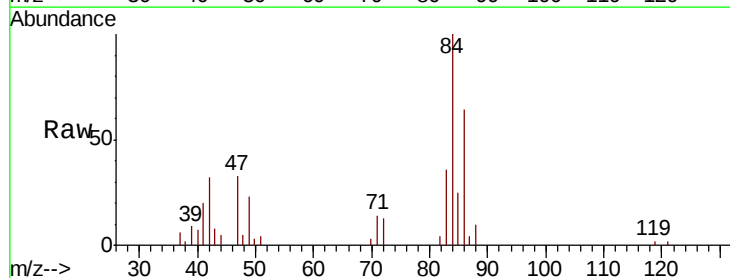


Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0

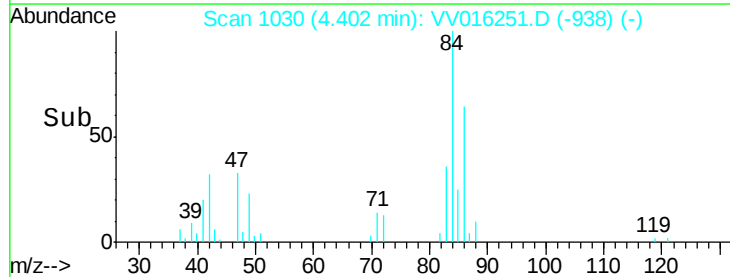
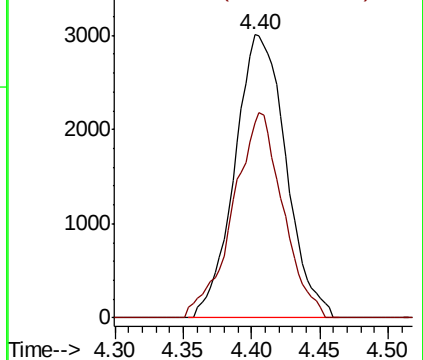


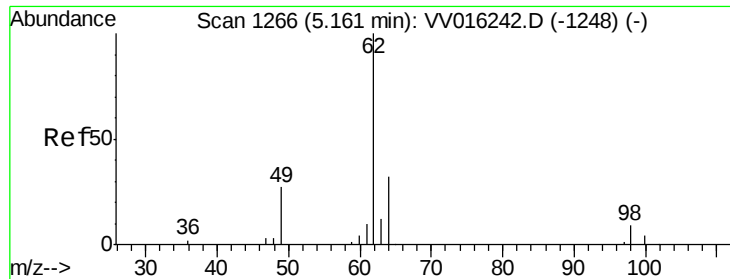
#25
 Chloroform
 Concen: 0.599 ug/L
 RT: 4.40 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VV016251.D
 Acq: 28 May 2020 00:59

Tgt Ion: 83 Resp: 7848
 Ion Ratio Lower Upper
 83 100
 85 68.7 45.1 83.7



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

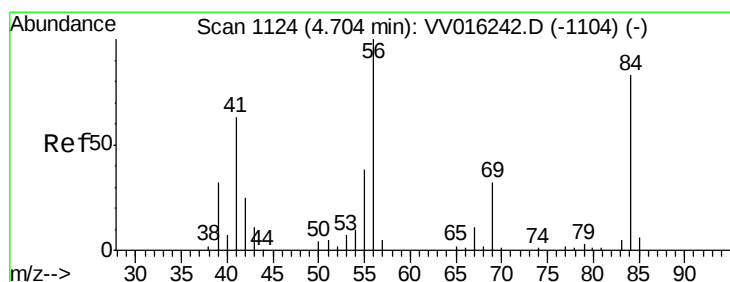
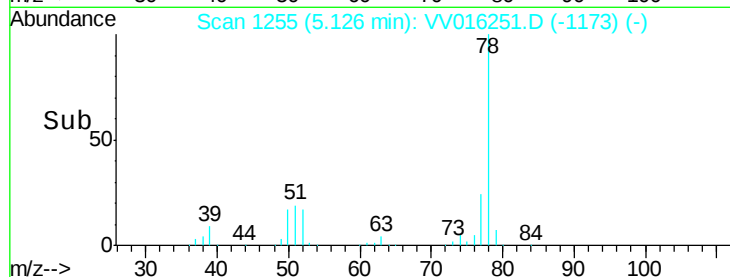
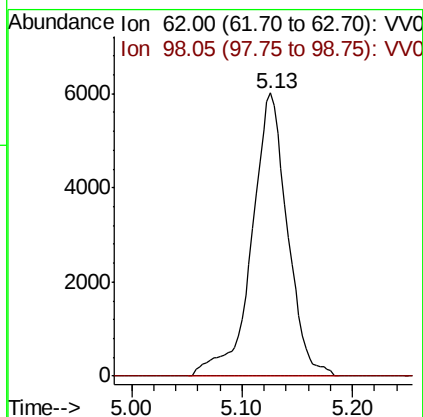
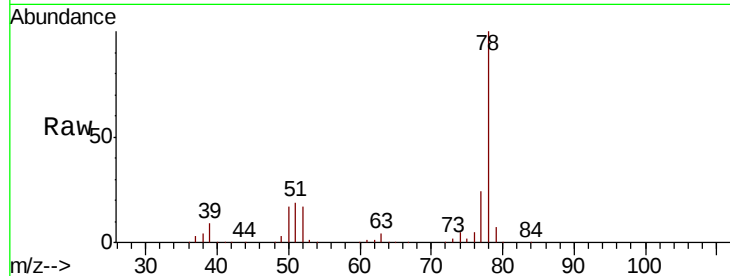




#27
 1,2-Dichloroethane
 Concen: 1.571 ug/L
 RT: 5.13 min Scan# 1255
 Delta R.T. -0.04 min
 Lab File: VV016251.D
 Acq: 28 May 2020 00:59

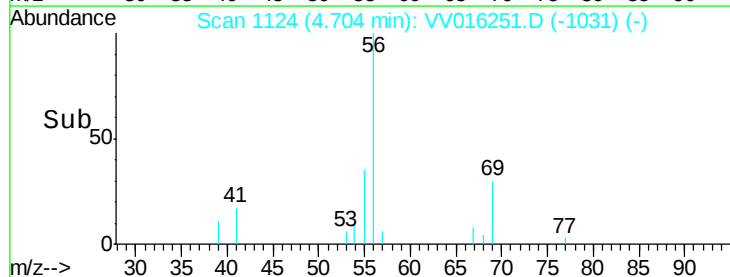
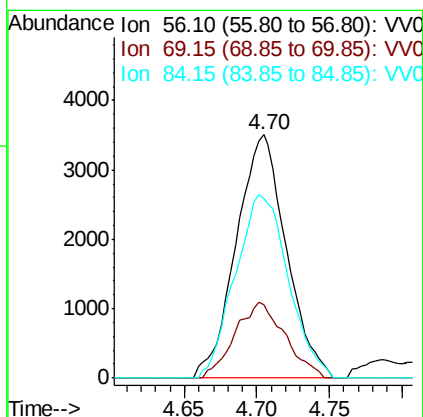
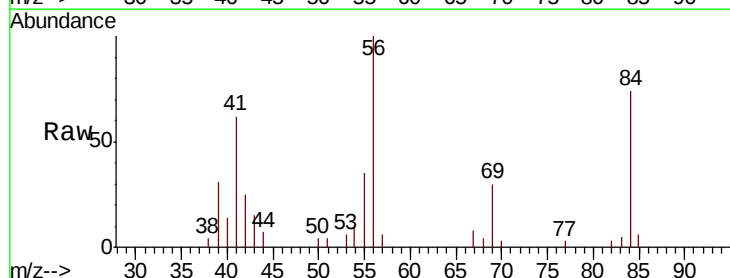
Instrument :
 MSVOA_V
 ClientSampleId :

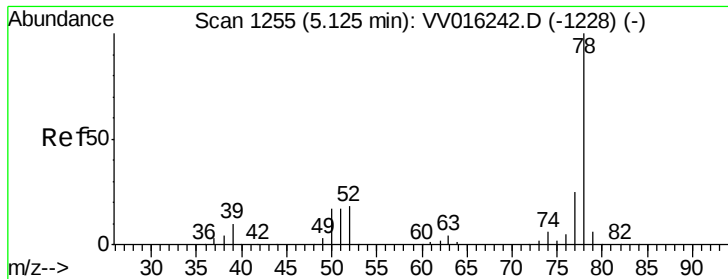
Tot Ion: 62 Resp: 13451
 Ion Ratio Lower Upper
 62 100
 98 0.0 5.7 8.5#



#30
 Cyclohexane
 Concen: 0.691 ug/L
 RT: 4.70 min Scan# 1124
 Delta R.T. 0.00 min
 Lab File: VV016251.D
 Acq: 28 May 2020 00:59

Tgt Ion: 56 Resp: 8411
 Ion Ratio Lower Upper
 56 100
 69 31.2 24.6 36.8
 84 80.0 67.1 100.7





#33

Benzene

Concen: 47.906 ug/L

RT: 5.13 min Scan# 1255

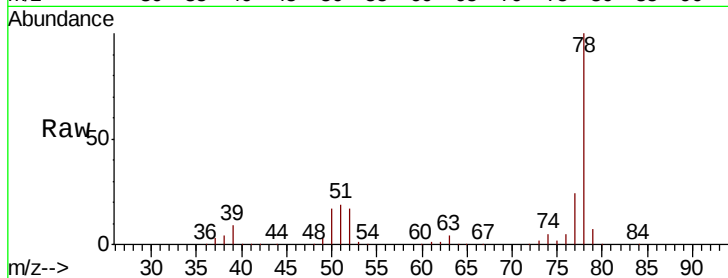
Delta R.T. 0.00 min

Lab File: VV016251.D

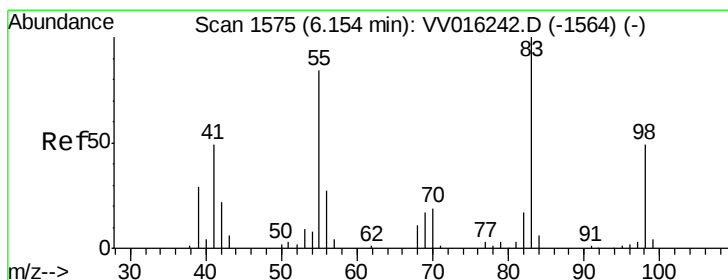
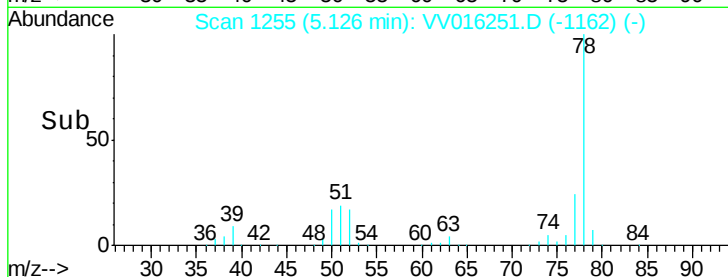
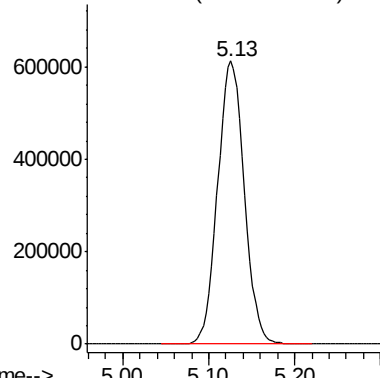
Acq: 28 May 2020 00:59

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 1318914



Abundance Ion 78.10 (77.80 to 78.80): VV0



#35

Methylcyclohexane

Concen: 0.554 ug/L

RT: 6.16 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VV016251.D

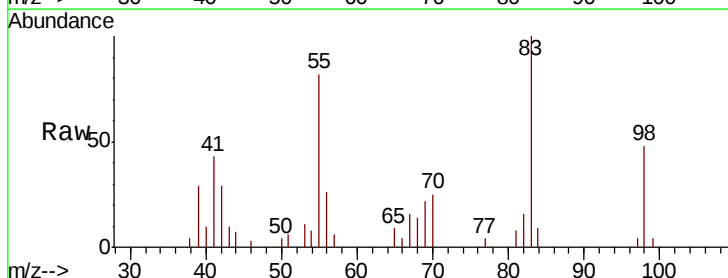
Acq: 28 May 2020 00:59

Tgt Ion: 83 Resp: 6703

Ion	Ratio	Lower	Upper
83	100		

55	85.3	65.4	98.0
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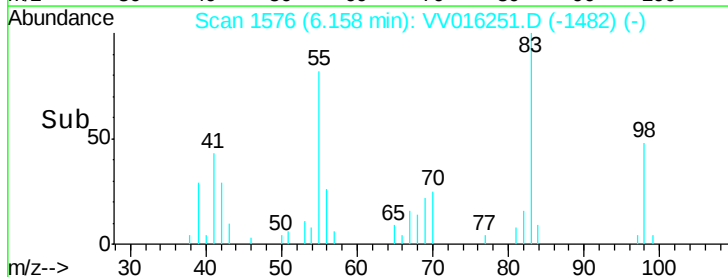
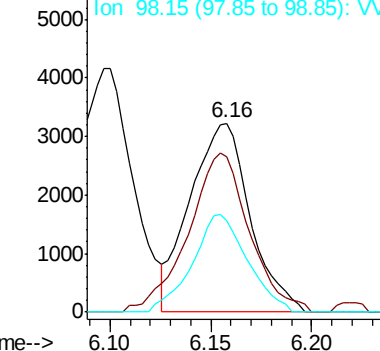
98	47.1	39.3	58.9
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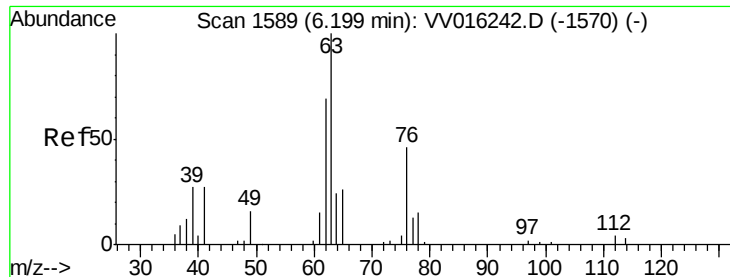


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 0.605 ug/L

RT: 6.10 min Scan# 1558

Delta R.T. -0.10 min

Lab File: VV016251.D

Acq: 28 May 2020 00:59

Instrument :

MSVOA_V

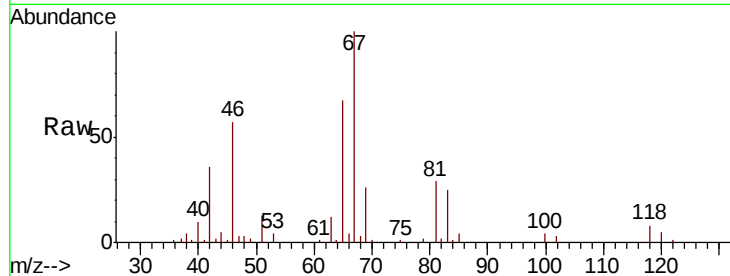
ClientSampleId :

Tot Ion: 63 Resp: 4088

Ion Ratio Lower Upper

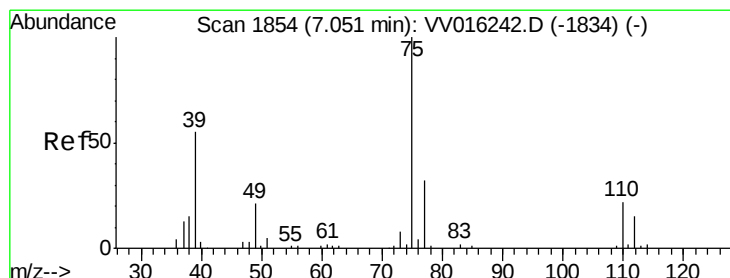
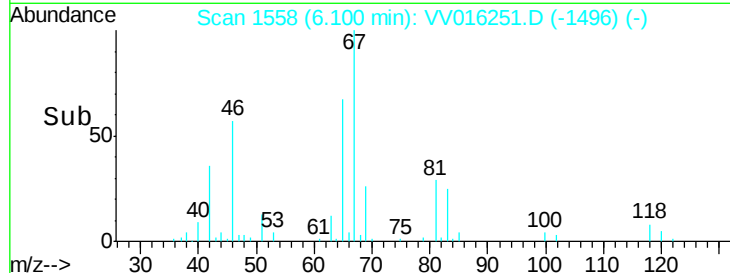
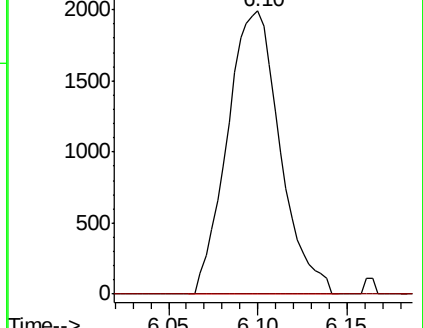
63 100

112 0.0 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VV016242.D (-1570) (-)

Ion 112.10 (111.80 to 112.80): VV016242.D (-1570) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.092 ug/L

RT: 7.02 min Scan# 1843

Delta R.T. -0.04 min

Lab File: VV016251.D

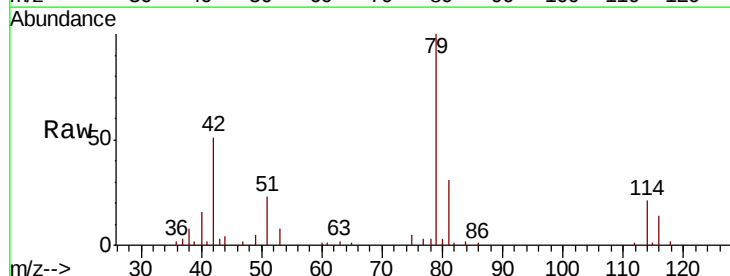
Acq: 28 May 2020 00:59

Tgt Ion: 75 Resp: 884

Ion Ratio Lower Upper

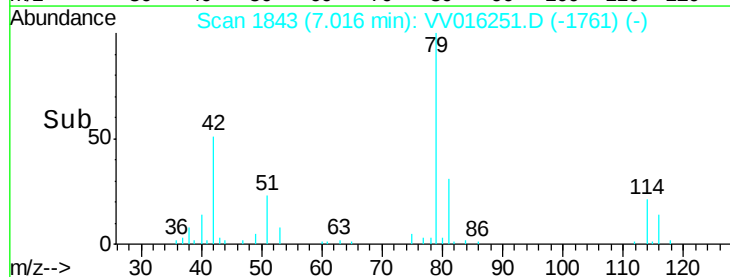
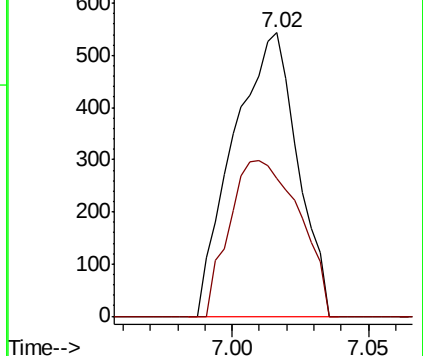
75 100

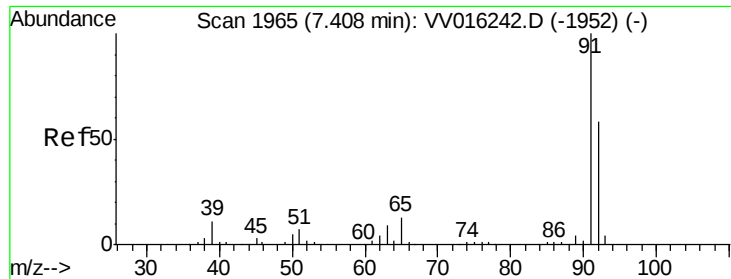
77 48.8 21.7 40.3#



Abundance Ion 75.05 (74.75 to 75.75): VV016242.D (-1834) (-)

Ion 77.05 (76.75 to 77.75): VV016242.D (-1834) (-)





#42

Toluene

Concen: 0.590 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV016251.D

Acq: 28 May 2020 00:59

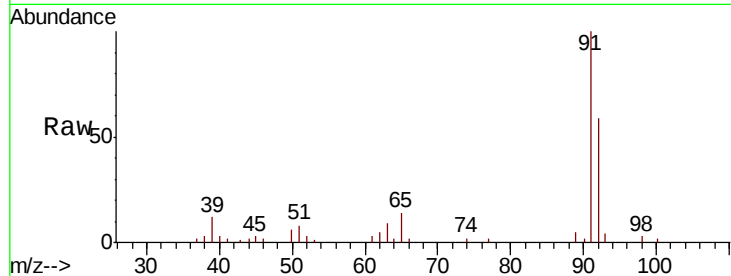
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 17705

Ion Ratio Lower Upper

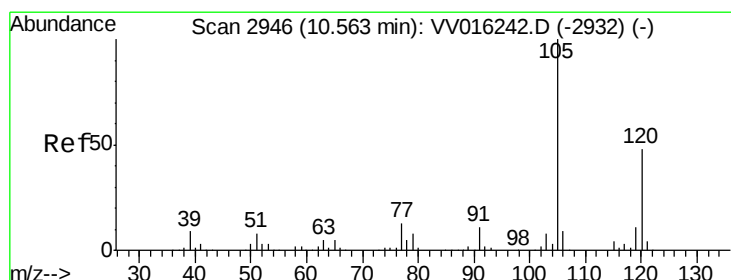
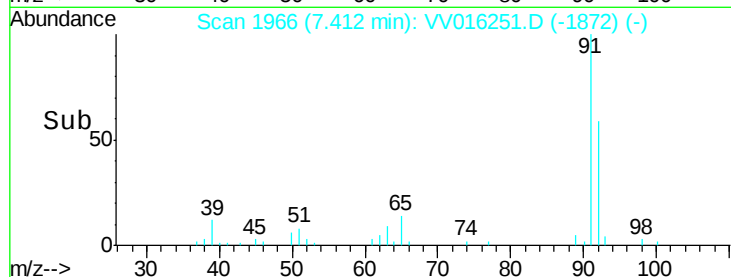
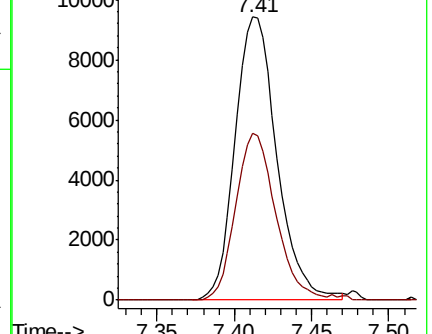
91 100

92 59.1 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#43

1,3,5-Trimethylbenzene

Concen: 0.438 ug/L

RT: 10.56 min Scan# 2946

Delta R.T. 0.00 min

Lab File: VV016251.D

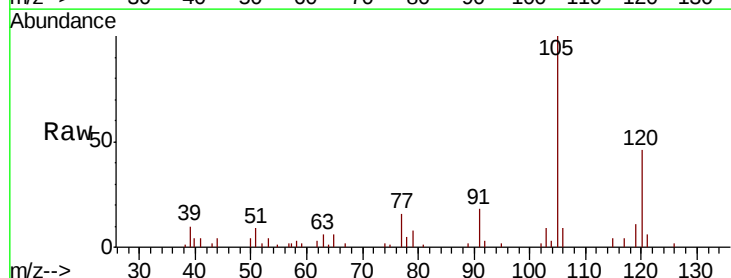
Acq: 28 May 2020 00:59

Tgt Ion:105 Resp: 11979

Ion Ratio Lower Upper

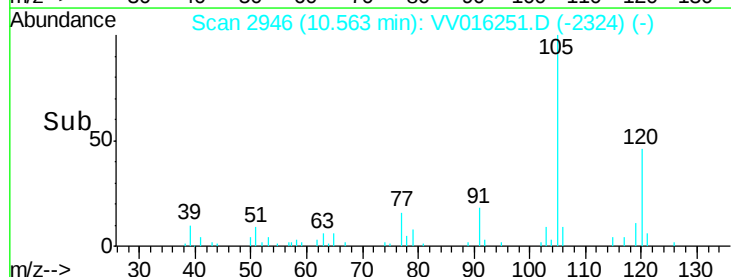
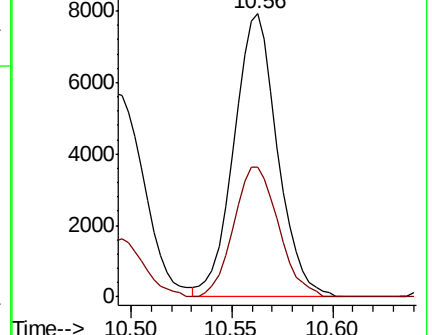
105 100

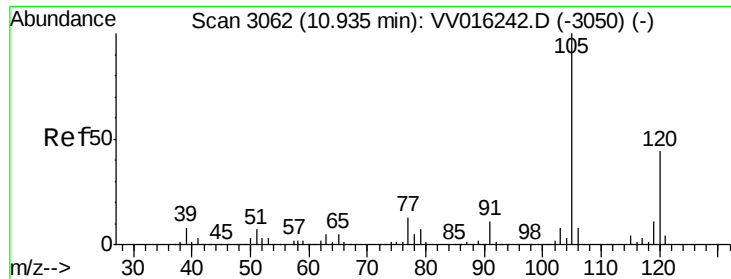
120 47.1 37.4 56.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

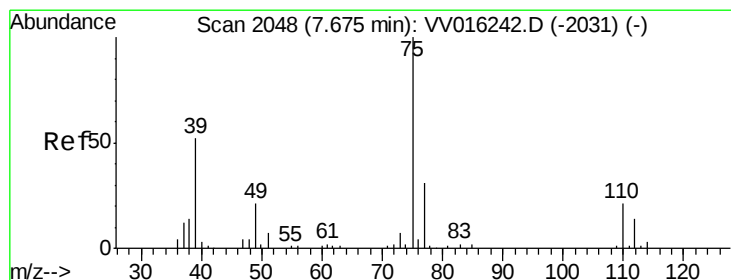
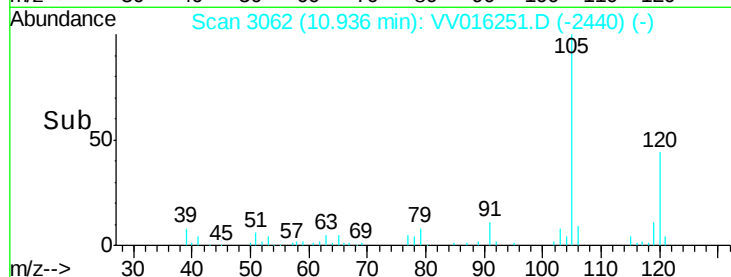
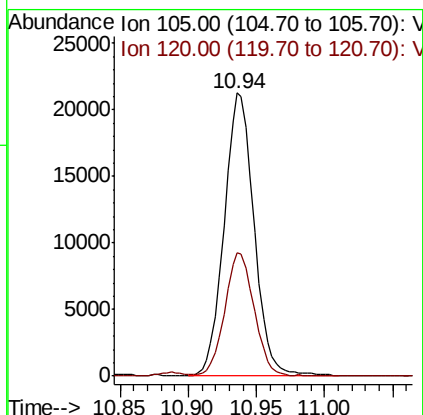
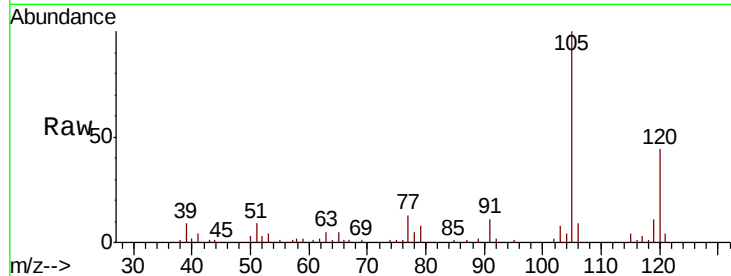




#44
1,2,4-Trimethylbenzene
Concen: 1.153 ug/L
RT: 10.94 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VV016251.D
Acq: 28 May 2020 00:59

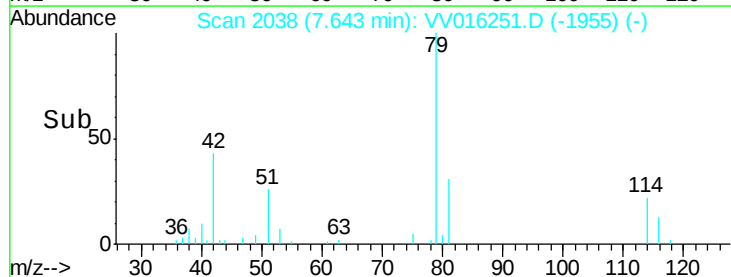
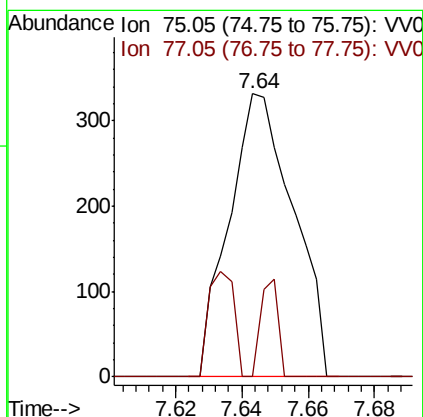
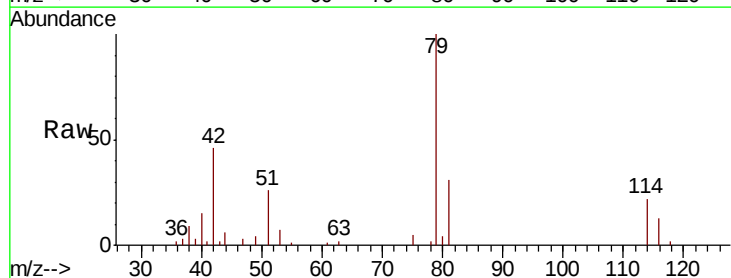
Instrument :
MSVOA_V
ClientSampled :

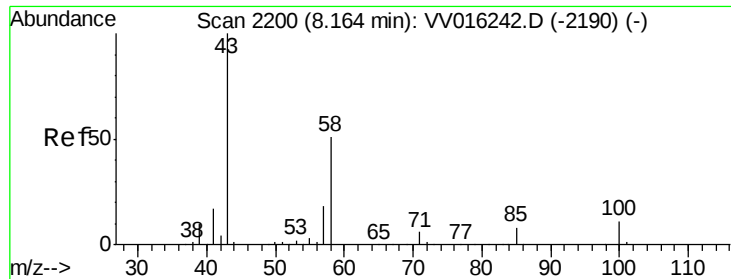
Tot Ion:105 Resp: 32448
Ion Ratio Lower Upper
105 100
120 42.8 34.6 52.0



#46
trans-1,3-Dichloropropene
Concen: 0.056 ug/L
RT: 7.64 min Scan# 2038
Delta R.T. -0.03 min
Lab File: VV016251.D
Acq: 28 May 2020 00:59

Tgt Ion: 75 Resp: 448
Ion Ratio Lower Upper
75 100
77 0.0 21.7 40.3#

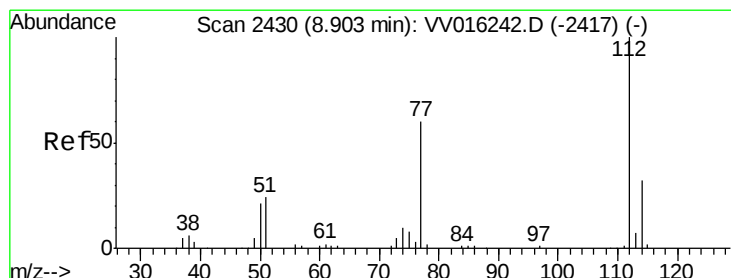
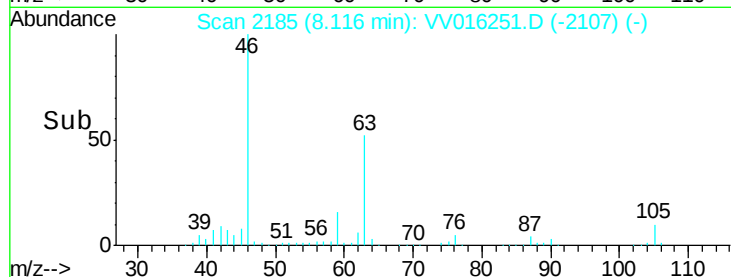
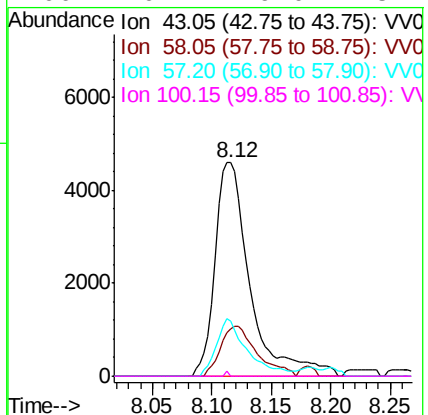
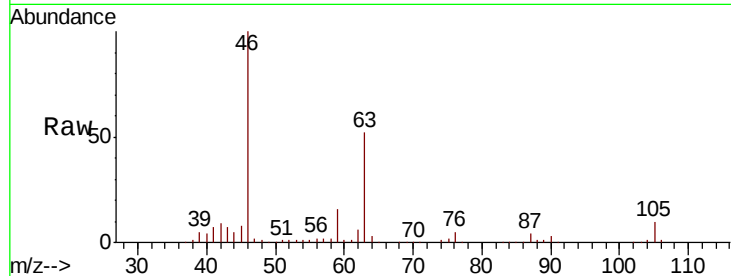




#50
2-Hexanone
Concen: 3.197 ug/L
RT: 8.12 min Scan# 2185
Delta R.T. -0.05 min
Lab File: VV016251.D
Acq: 28 May 2020 00:59

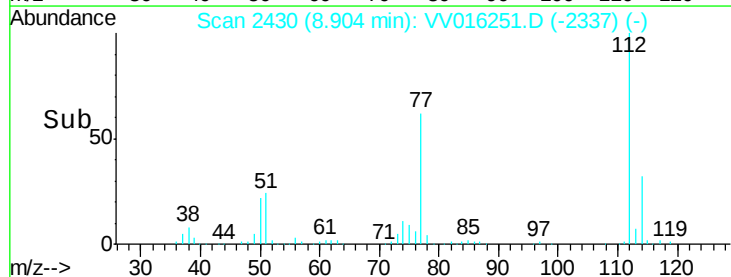
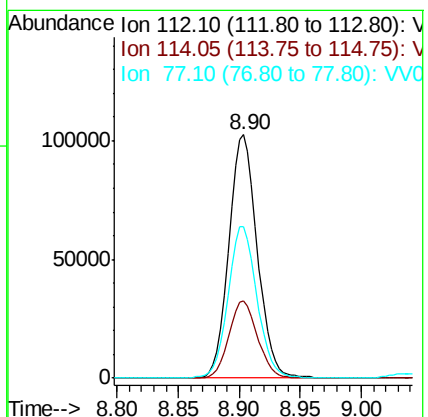
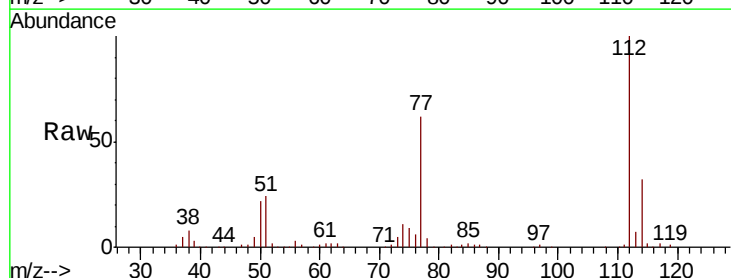
Instrument :
MSVOA_V
ClientSampleId :

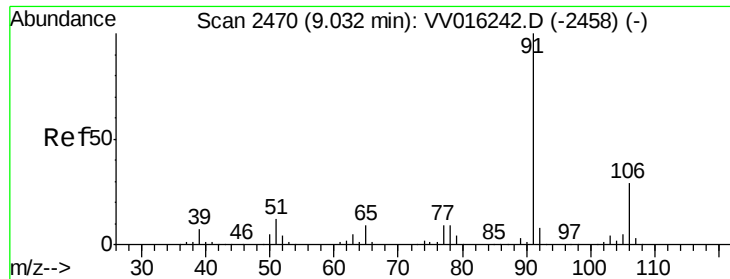
Tot Ion: 43 Resp: 9368
Ion Ratio Lower Upper
43 100
58 24.3 41.4 62.0#
57 24.1 15.0 22.4#
100 0.2 9.0 13.4#



#53
Chlorobenzene
Concen: 8.988 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV016251.D
Acq: 28 May 2020 00:59

Tgt Ion: 112 Resp: 166757
Ion Ratio Lower Upper
112 100
114 31.7 22.3 41.3
77 62.0 50.7 76.1

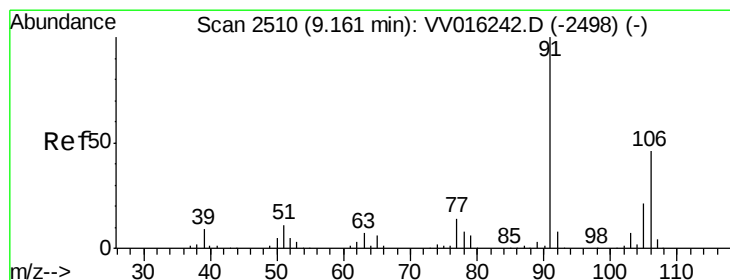
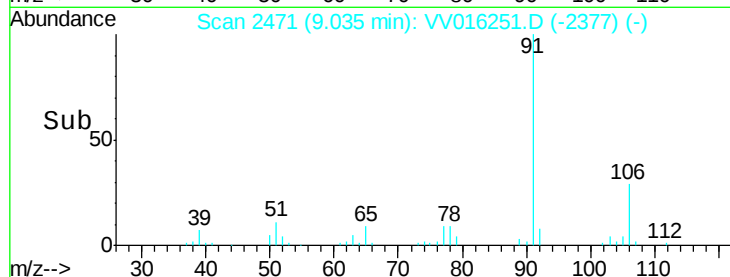
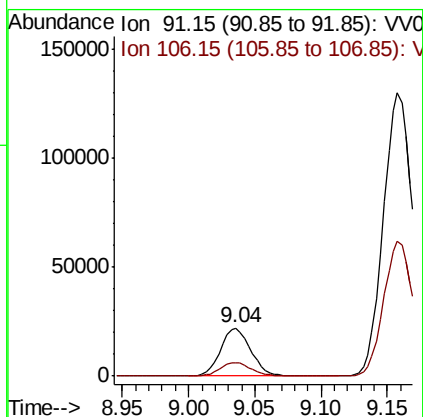
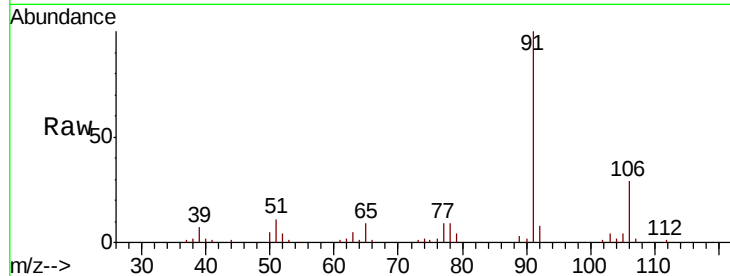




#54
Ethylbenzene
Concen: 1.057 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV016251.D
Acq: 28 May 2020 00:59

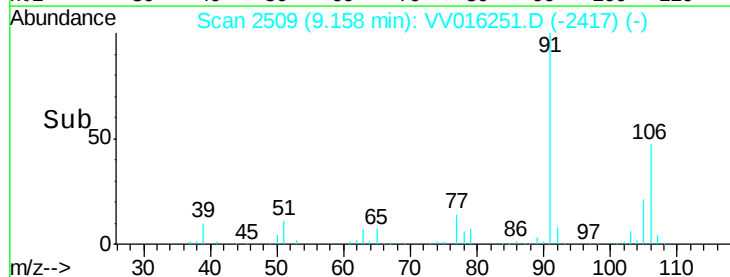
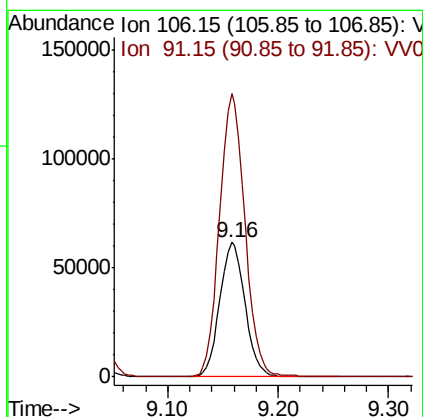
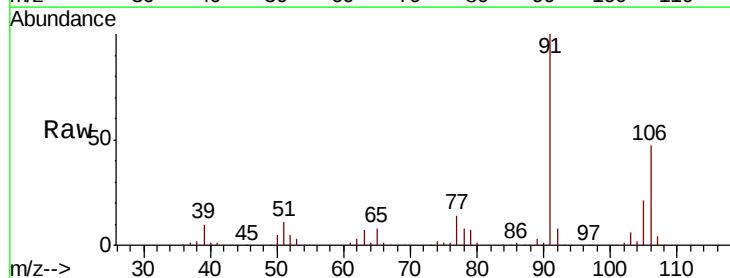
Instrument :
MSVOA_V
ClientSampled :

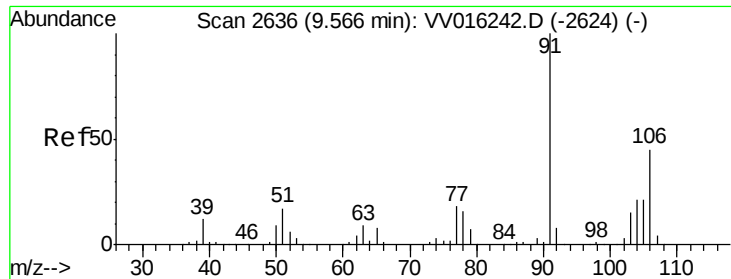
Tot Ion: 91 Resp: 35375
Ion Ratio Lower Upper
91 100
106 28.7 21.0 39.0



#55
m,p-xylene
Concen: 7.859 ug/L
RT: 9.16 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VV016251.D
Acq: 28 May 2020 00:59

Tgt Ion: 106 Resp: 98623
Ion Ratio Lower Upper
106 100
91 210.8 148.1 275.0

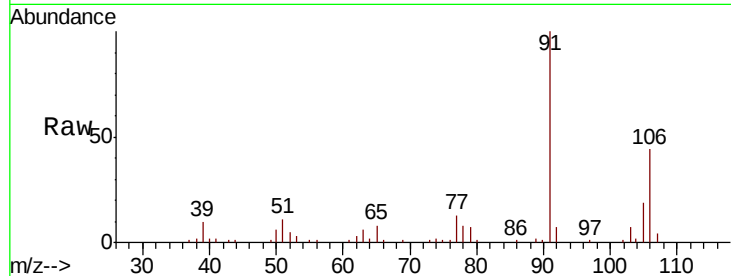




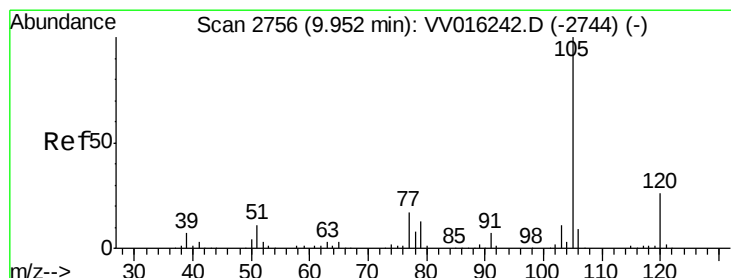
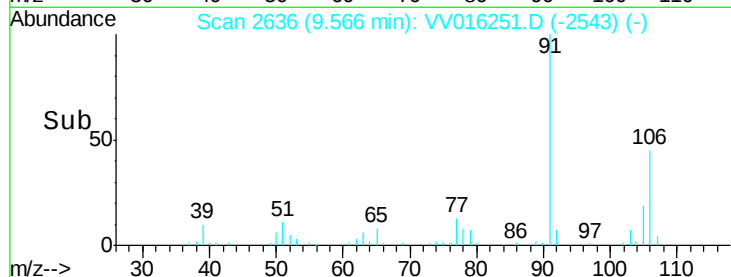
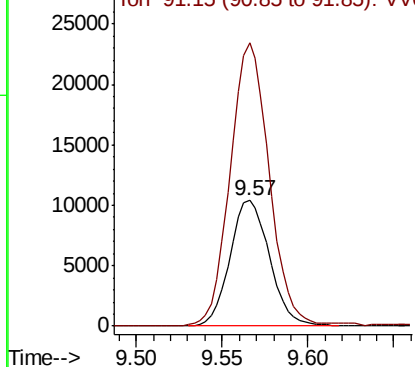
#56
o-xylene
Concen: 1.401 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV016251.D
Acq: 28 May 2020 00:59

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 16749
Ion Ratio Lower Upper
106 100
91 225.8 158.8 294.8

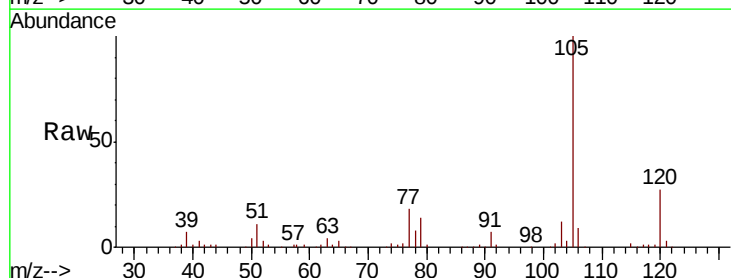


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

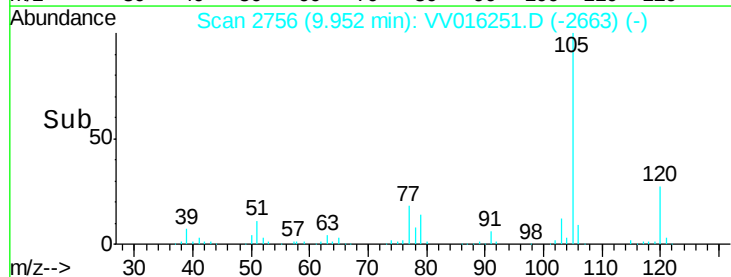
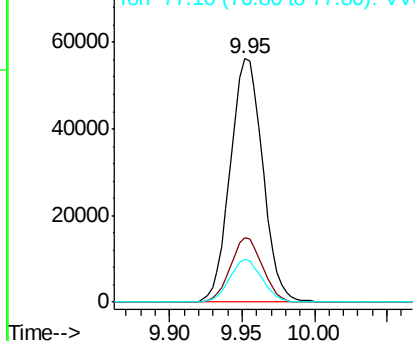


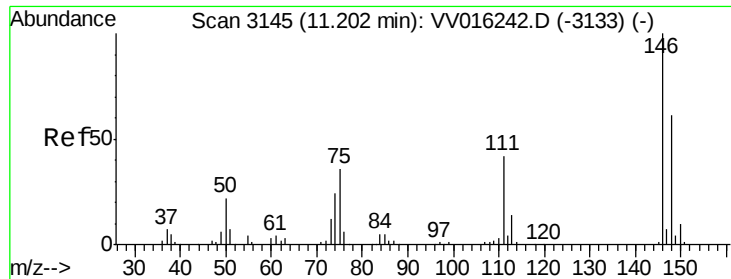
#58
Isopropylbenzene
Concen: 2.675 ug/L
RT: 9.95 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VV016251.D
Acq: 28 May 2020 00:59

Tgt Ion:105 Resp: 87644
Ion Ratio Lower Upper
105 100
120 25.9 20.9 31.3
77 17.2 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): VV0

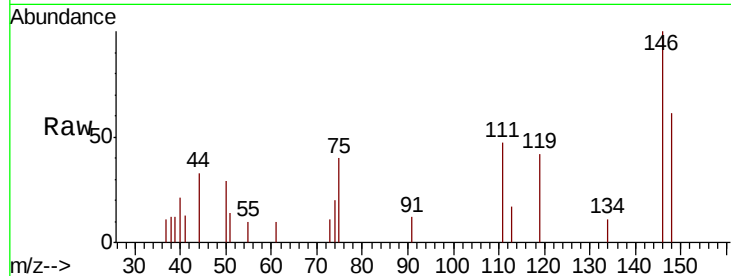




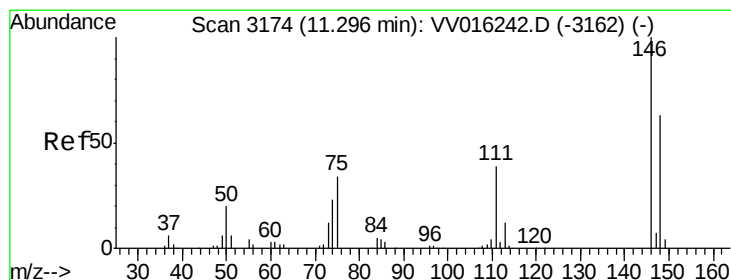
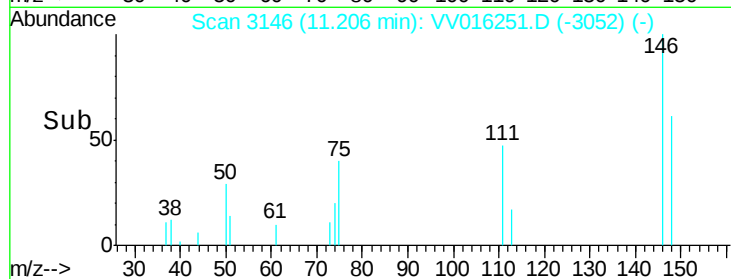
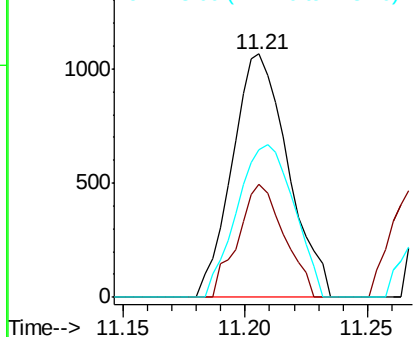
#63
 1,3-Dichlorobenzene
 Concen: 0.119 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV016251.D
 Acq: 28 May 2020 00:59

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion:146 Resp: 1689
 Ion Ratio Lower Upper
 146 100
 111 46.5 29.7 55.1
 148 60.7 45.9 85.3

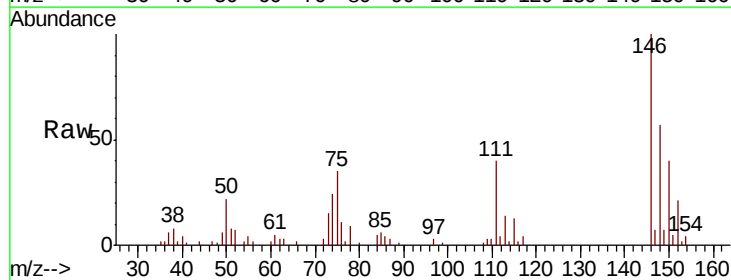


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

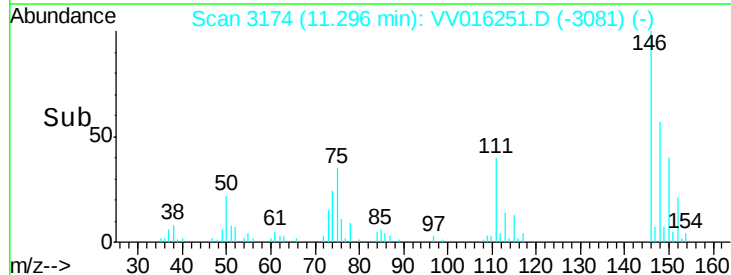
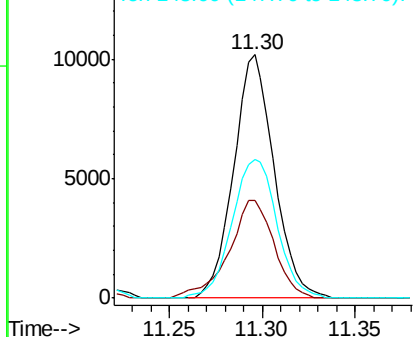


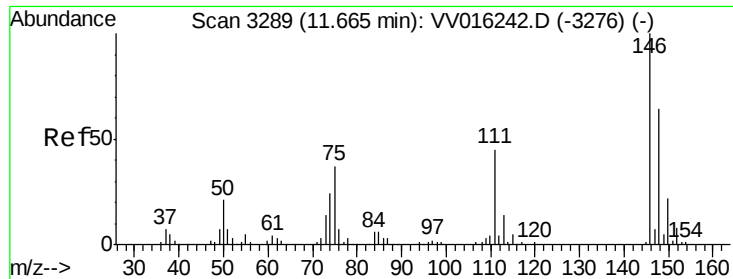
#64
 1,4-Dichlorobenzene
 Concen: 1.066 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV016251.D
 Acq: 28 May 2020 00:59

Tgt Ion:146 Resp: 15378
 Ion Ratio Lower Upper
 146 100
 111 40.3 28.3 52.7
 148 57.1 43.3 80.3



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





#66

1,2-Dichlorobenzene

Concen: 1.827 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV016251.D

Acq: 28 May 2020 00:59

Instrument :

MSVOA_V

ClientSampleId :

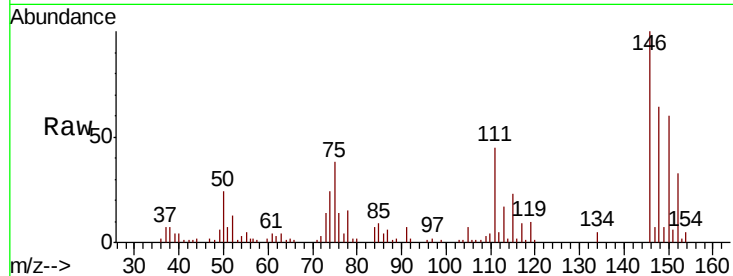
Tot Ion:146 Resp: 23454

Ion Ratio Lower Upper

146 100

111 45.3 35.7 53.5

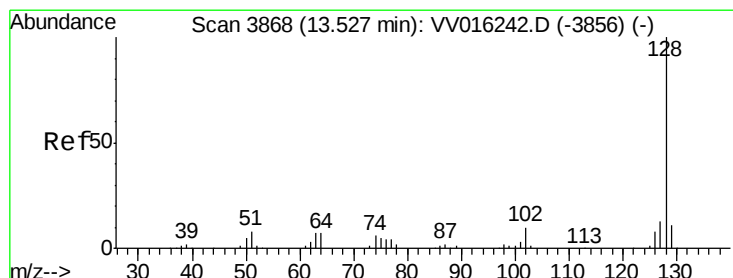
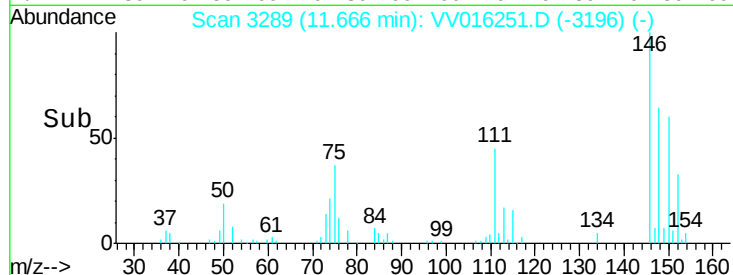
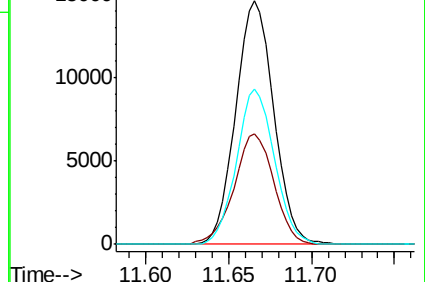
148 64.0 51.3 76.9



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



#70

Naphthalene

Concen: 0.325 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.00 min

Lab File: VV016251.D

Acq: 28 May 2020 00:59

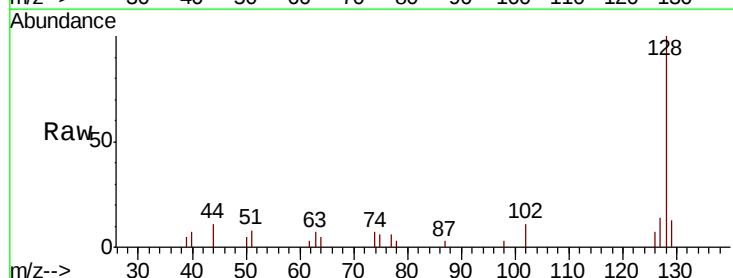
Tgt Ion:128 Resp: 6266

Ion Ratio Lower Upper

128 100

129 11.5 8.6 13.0

127 12.2 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

