

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052220\
 Data File : VV016185.D
 Acq On : 22 May 2020 20:51
 Operator : SY/MD
 Sample : L2756-04
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 ETKW8

Manual Integrations
 APPROVED

MMDadoda
 5/26/2020 9:35:20 AM

Quant Time: May 25 02:10:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 23 05:08:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	158316	5.00	ug/L	0.02
28) Chlorobenzene-d5	8.88	117	154019	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.28	152	79073	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	51544	6.00	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	120.00%
7) Chloroethane-d5	1.58	69	37748	4.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.80%
11) 1,1-Dichloroethene-d2	2.14	63	3487971	188.86	ug/L	0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	3777.20%#
20) 2-Butanone-d5	4.05	46	44405	18.12	ug/L	0.07
Spiked Amount	50.000	Range	40 - 130	Recovery	=	36.24%#
24) Chloroform-d	4.40	84	95113	5.07	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.40%
26) 1,2-Dichloroethane-d4	5.08	65	45471	4.23	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.60%
32) Benzene-d6	5.10	84	179508	4.90	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
36) 1,2-Dichloropropane-d6	6.11	67	53546	4.79	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.80%
41) Toluene-d8	7.36	98	192832m	5.57	ug/L	0.03
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.40%
45) trans-1,3-Dichloropropene-	7.66	79	18457	4.20	ug/L	0.01
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.00%
48) 2-Hexanone-d5	8.13	63	83155	43.11	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	86.22%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	36793	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	64276	5.01	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.13	85	1183	0.098	ug/L #	83
3) Chloromethane	1.24	50	1315	0.107	ug/L	100
5) Vinyl chloride	1.32	62	1022664	87.075	ug/L	100
8) Chloroethane	1.59	64	14207	1.698	ug/L	87
9) Trichlorofluoromethane	1.76	101	37658	2.338	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	414258	45.525	ug/L	95
12) 1,1-Dichloroethene	2.14	96	5768219	662.074	ug/L #	59
14) Carbon disulfide	2.32	76	34939	1.215	ug/L	99
16) Methylene chloride	2.52	84	13022383	1249.148	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	1189760	123.569	ug/L	98
19) 1,1-Dichloroethane	3.23	63	20154965	1086.826	ug/L	94
22) cis-1,2-Dichloroethene	3.94	96	73499985m	7292.304	ug/L	
25) Chloroform	4.42	83	95615	4.682	ug/L	99
29) 1,1,1-Trichloroethane	4.66	97	50302740m	2961.656	ug/L	
30) Cyclohexane	4.75	56	1264980	74.322	ug/L	92
33) Benzene	5.14	78	7048999	181.908	ug/L	100
34) Trichloroethene	5.95	95	2319214	209.690	ug/L	96

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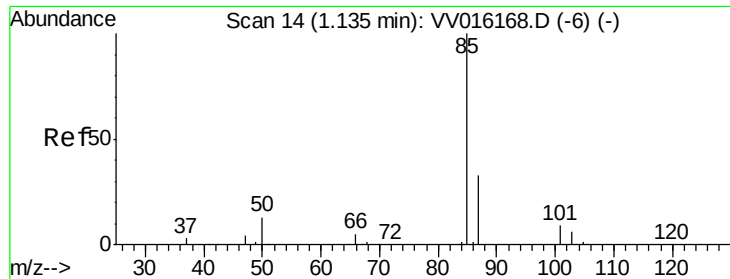
Manual Integrations
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 QLast Update : Sat May 23 05:08:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Methylcyclohexane	6.17	83	1636653	97.825	ug/L	98
40) 4-Methyl-2-pentanone	7.30	43	2661878	433.799	ug/L	98
42) Toluene	7.41	91	51235301m	1247.383	ug/L	
49) Tetrachloroethene	8.01	164	197367	25.574	ug/L	99
53) Chlorobenzene	8.91	112	36266	1.373	ug/L	90
54) Ethylbenzene	9.04	91	24424410m	522.945	ug/L	
55) m,p-xylene	9.19	106	24190300m	1398.782	ug/L	
56) o-xylene	9.59	106	11725959	709.208	ug/L #	48
57) Styrene	9.60	104	5503531	199.005	ug/L	83
58) Isopropylbenzene	9.96	105	1029641	22.667	ug/L	99
63) 1,3-Dichlorobenzene	11.21	146	9857	0.463	ug/L	95
64) 1,4-Dichlorobenzene	11.30	146	91725	4.286	ug/L	99
66) 1,2-Dichlorobenzene	11.67	146	546100	28.323	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 0.098 ug/L

RT: 1.13 min Scan# 13

Delta R.T. -0.00 min

Lab File: VV016185.D

Acq: 22 May 2020 20:51

Instrument :

MSVOA_V

ClientSampleId :

ETKW8

Tot Ion: 85 Resp: 1183

Ion Ratio Lower Upper

85 100

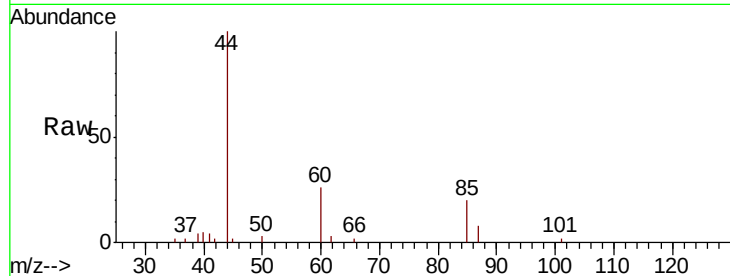
87 42.4 26.4 39.6#

Manual Integrations

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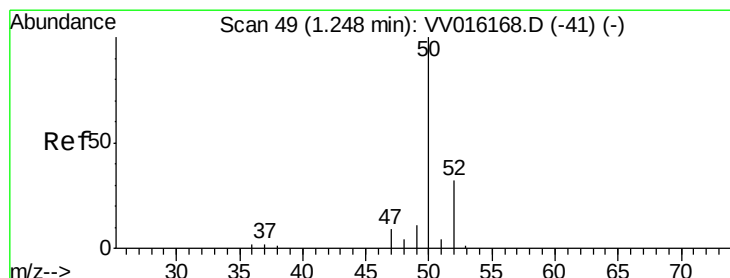
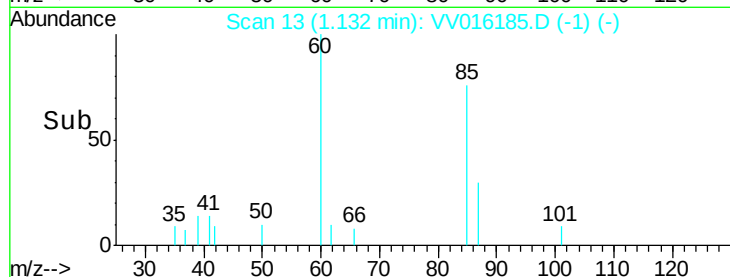
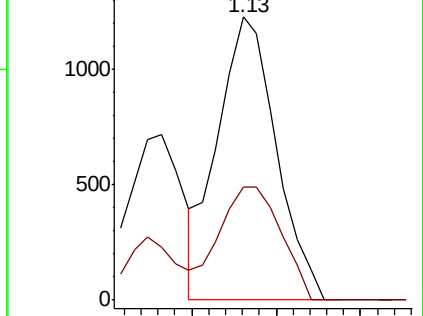
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 0.107 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.00 min

Lab File: VV016185.D

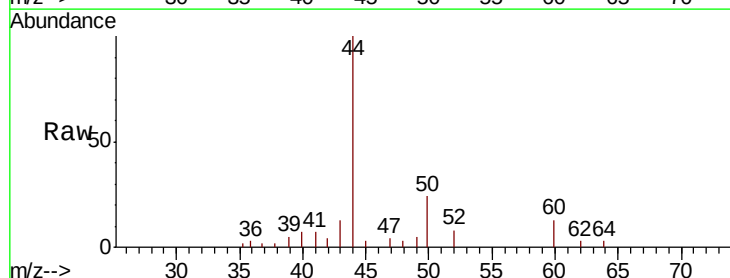
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Tgt Ion: 50 Resp: 1315

Ion Ratio Lower Upper

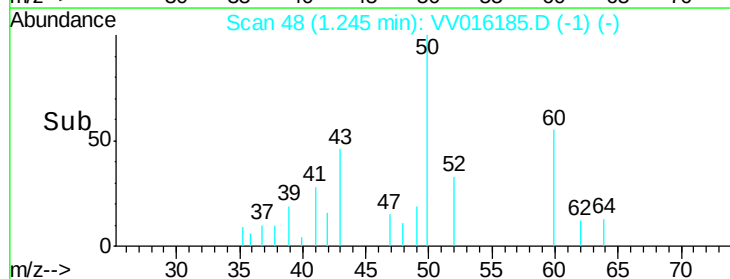
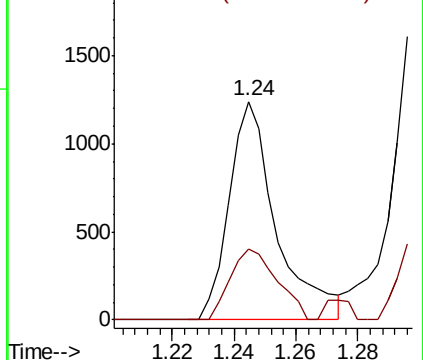
50 100

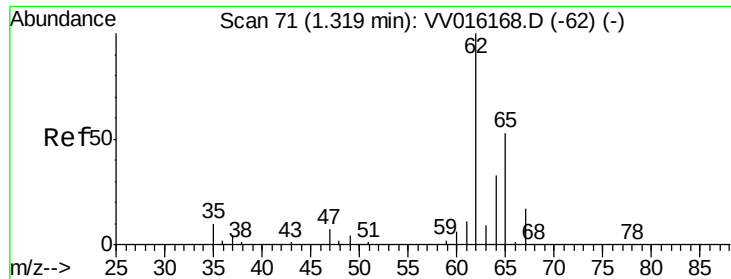
52 32.6 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 87.075 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VV016185.D

Acq: 22 May 2020 20:51

Instrument :

MSVOA_V

ClientSampleId :

ETKW8

Tot Ion: 62 Resp: 1022664

Ion Ratio Lower Upper

62 100

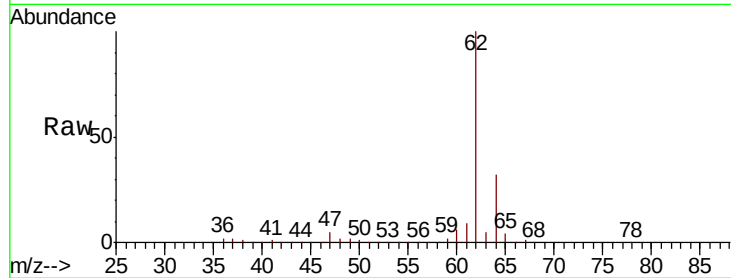
64 31.8 22.4 41.6

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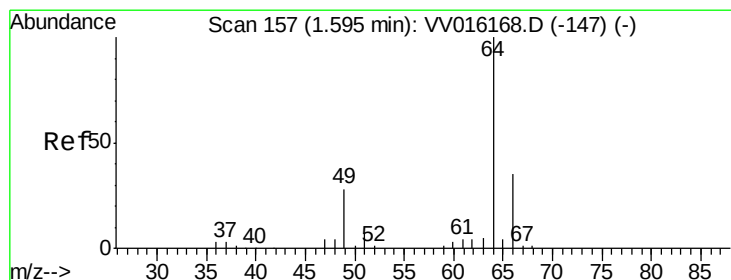
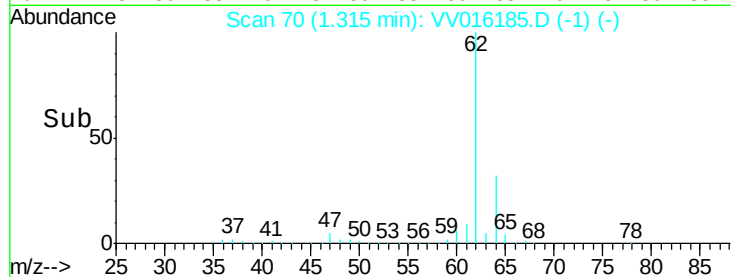
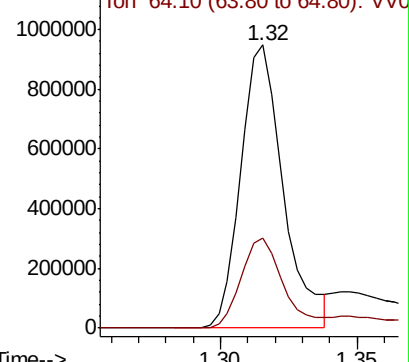
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Abundance Ion 62.00 (61.70 to 62.70): VV0



#8

Chloroethane

Concen: 1.698 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV016185.D

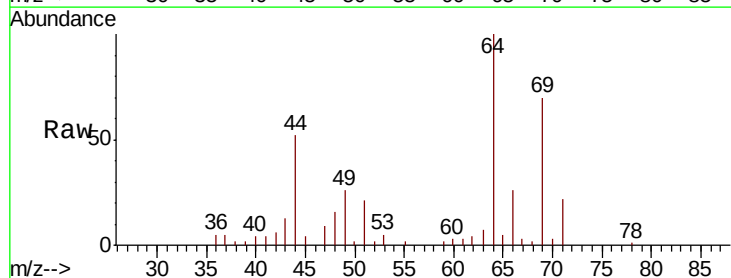
Acq: 22 May 2020 20:51

Tgt Ion: 64 Resp: 14207

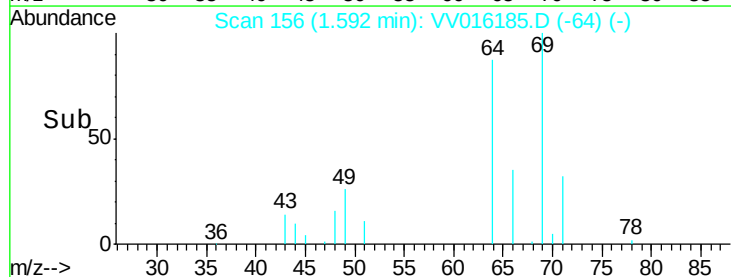
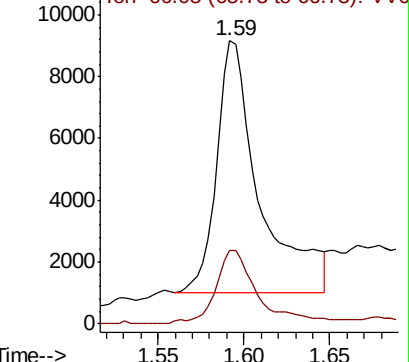
Ion Ratio Lower Upper

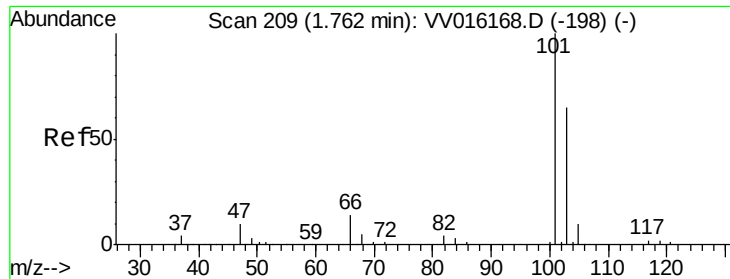
64 100

66 26.2 23.6 43.8



Abundance Ion 64.10 (63.80 to 64.80): VV0





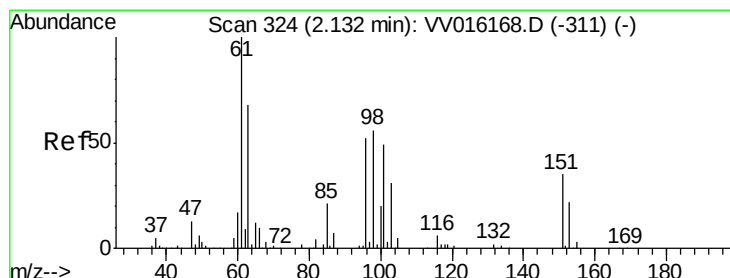
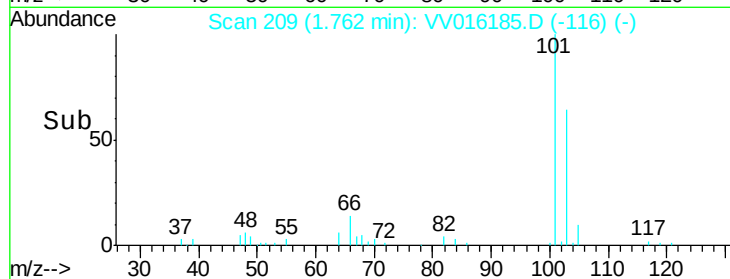
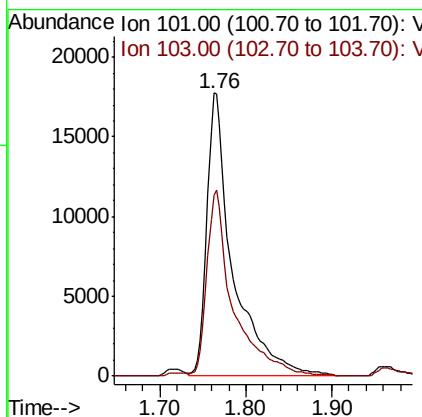
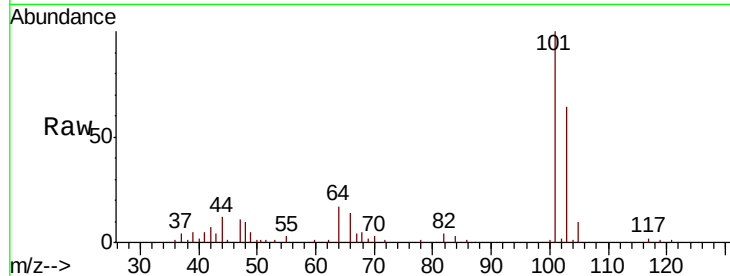
#9
 Trichlorofluoromethane
 Concen: 2.338 ug/L
 RT: 1.76 min Scan# 209
 Delta R.T. 0.00 min
 Lab File: VV016185.D
 Acq: 22 May 2020 20:51

Instrument :
 MSVOA_V
 ClientSampleId :
 ETKW8

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.3	51.4	77.2

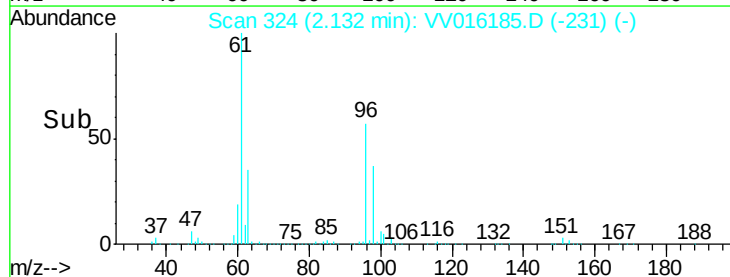
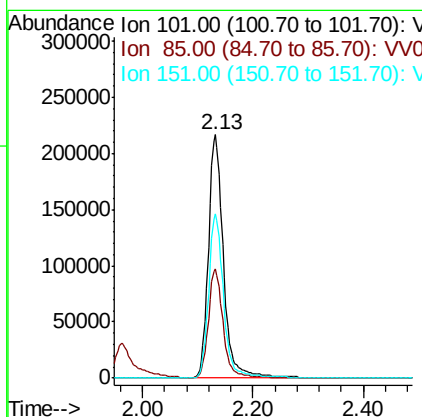
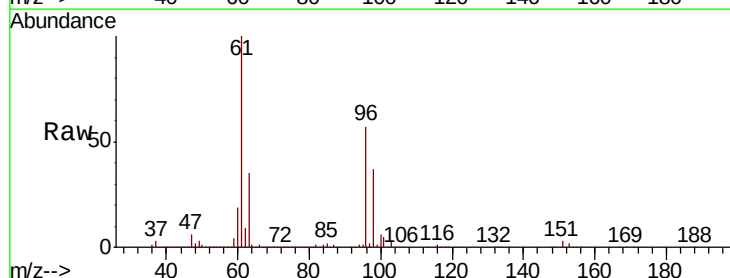
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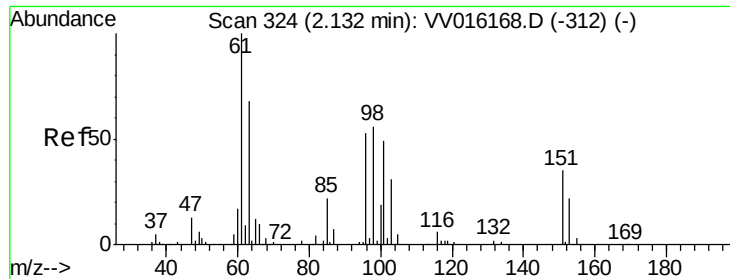
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#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 45.525 ug/L
 RT: 2.13 min Scan# 324
 Delta R.T. 0.00 min
 Lab File: VV016185.D
 Acq: 22 May 2020 20:51

Tgt Ion	Ratio	Lower	Upper
101	100		
85	43.2	35.7	53.5
151	67.4	58.0	87.0





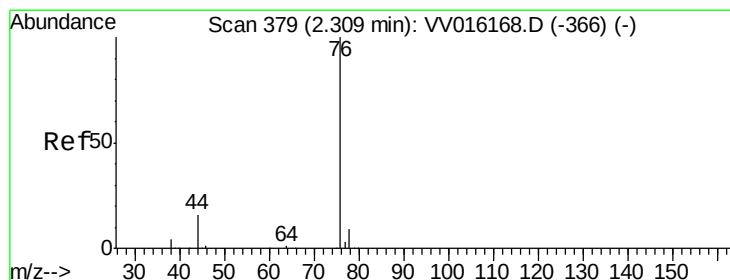
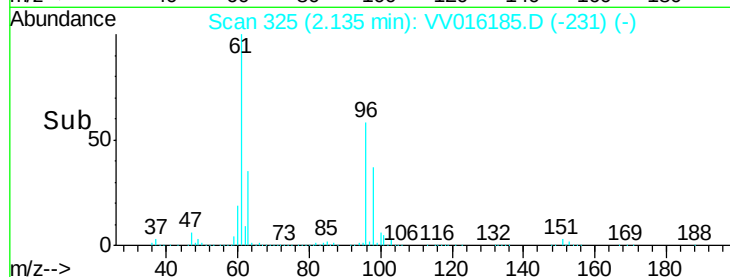
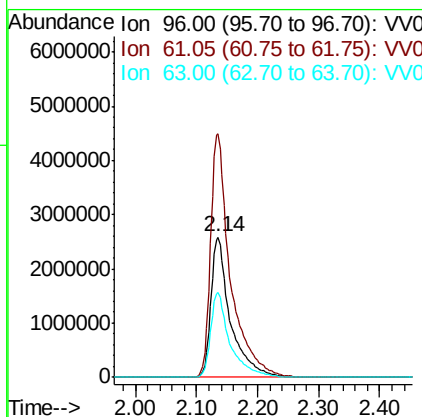
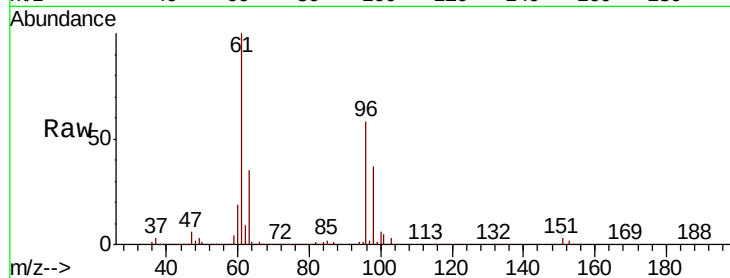
#12
 1,1-Dichloroethene
 Concen: 662.074 ug/L
 RT: 2.14 min Scan# 325
 Delta R.T. 0.00 min
 Lab File: VV016185.D
 Acq: 22 May 2020 20:51

Instrument :
 MSVOA_V
 ClientSampleId :
 ETKW8

Tot Ion: 96 Resp: 5768219
 Ion Ratio Lower Upper
 96 100
 61 173.6 139.9 259.7
 63 60.6 106.4 197.6#

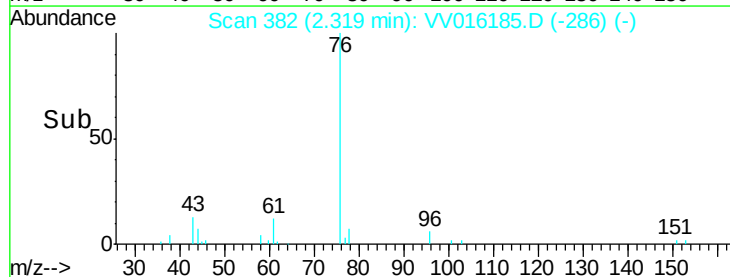
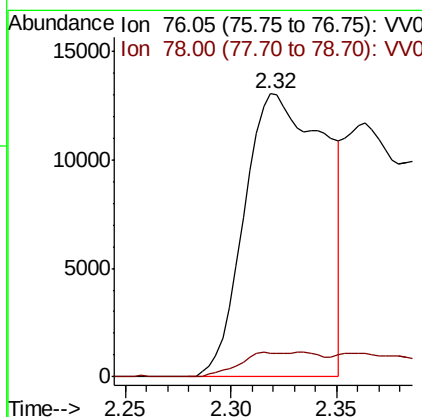
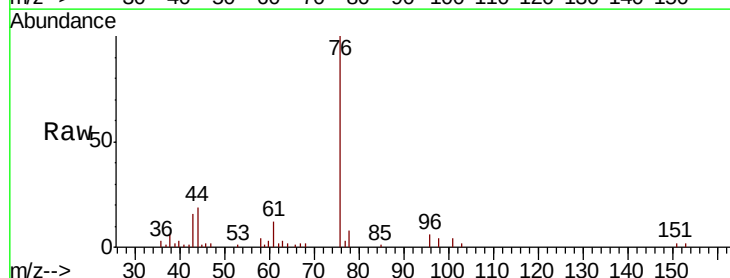
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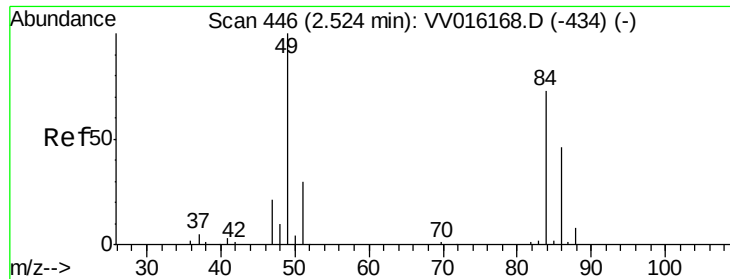
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#14
 Carbon disulfide
 Concen: 1.215 ug/L
 RT: 2.32 min Scan# 382
 Delta R.T. 0.01 min
 Lab File: VV016185.D
 Acq: 22 May 2020 20:51

Tgt Ion: 76 Resp: 34939
 Ion Ratio Lower Upper
 76 100
 78 8.5 7.0 10.6





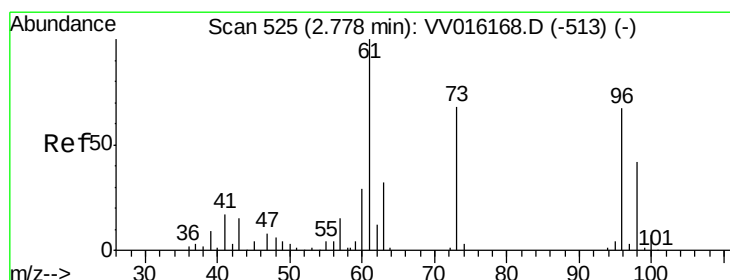
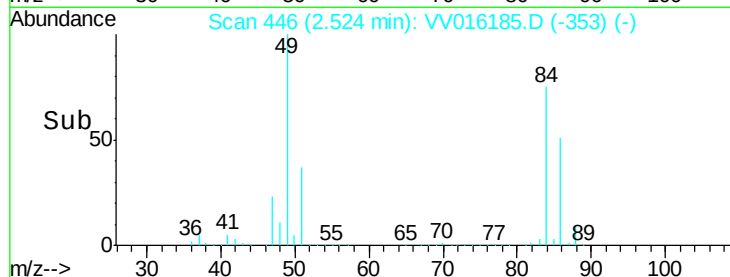
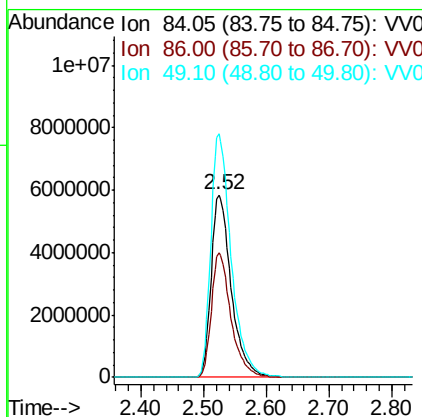
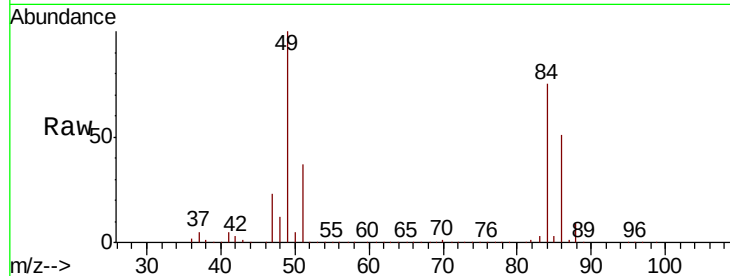
#16
Methylene chloride
Concen: 1249.148 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV016185.D
Acq: 22 May 2020 20:51

Instrument :
MSVOA_V
ClientSampleId :
ETKW8

Tot Ion: 84 Resp:13022383
Ion Ratio Lower Upper
84 100
86 68.3 45.6 84.8
49 133.3 93.6 173.8

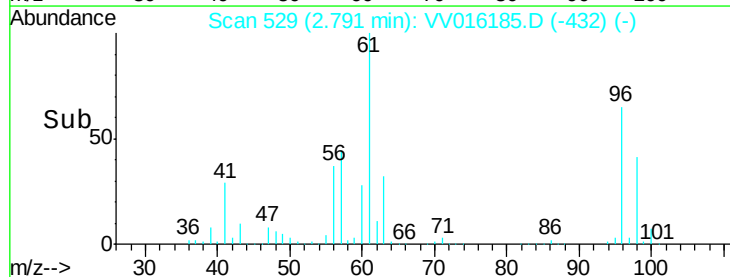
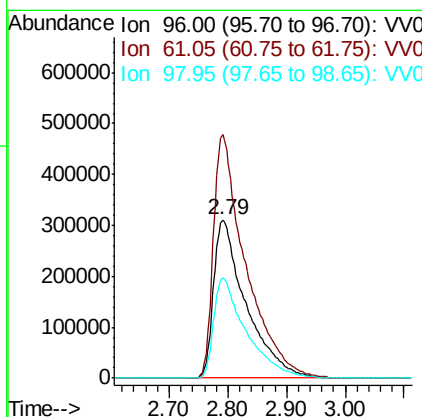
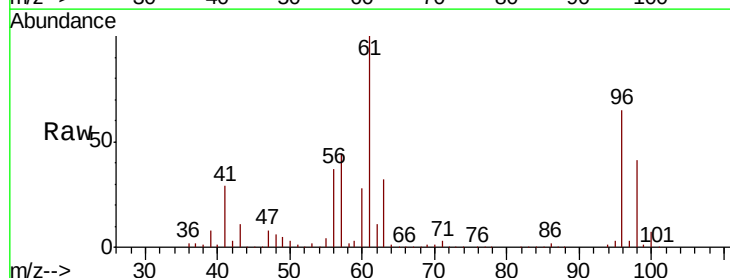
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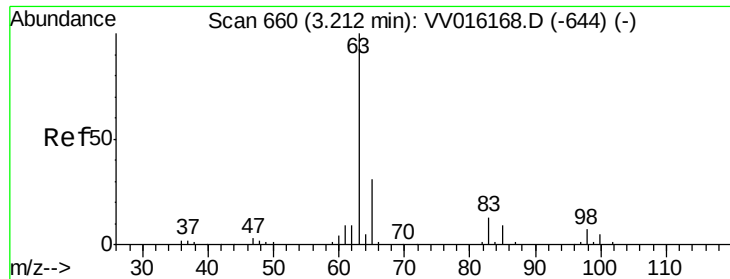
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#18
trans-1,2-Dichloroethene
Concen: 123.569 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.01 min
Lab File: VV016185.D
Acq: 22 May 2020 20:51

Tgt Ion: 96 Resp: 1189760
Ion Ratio Lower Upper
96 100
61 153.7 105.3 195.5
98 63.5 44.0 81.6





#19

1,1-Dichloroethane

Concen: 1086.826 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.02 min

Lab File: VV016185.D

Acq: 22 May 2020 20:51

Instrument :

MSVOA_V

ClientSampleId :

ETKW8

Tot Ion: 63 Resp:20154965

Ion Ratio Lower Upper

63 100

65 35.6 22.0 41.0

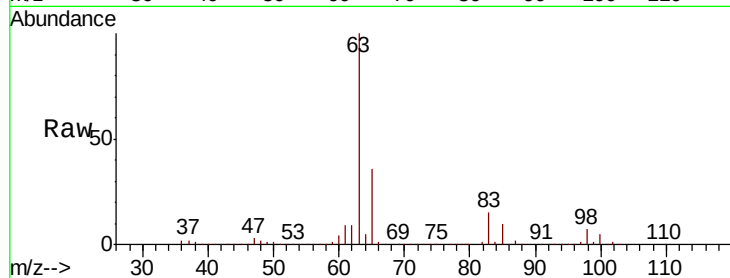
83 14.7 9.8 18.2

Manual Integrations

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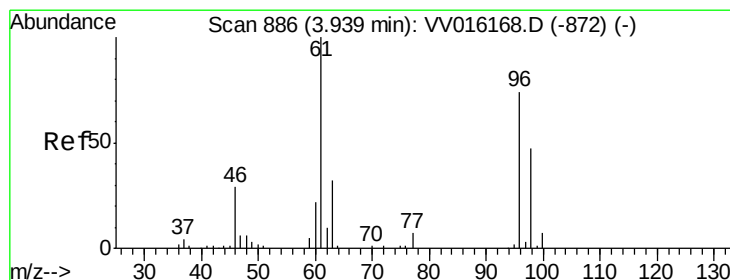
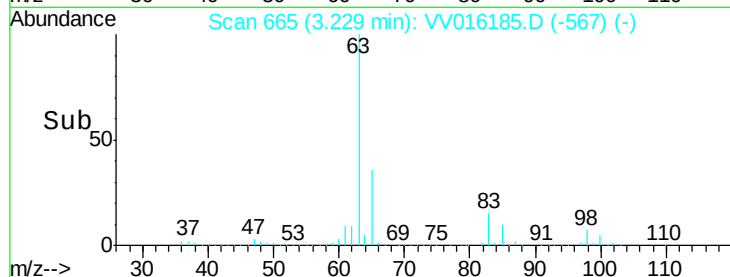
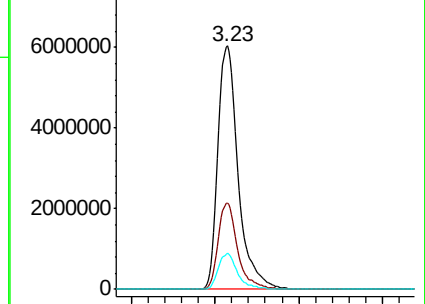
5/26/2020 9:35:20 AM



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



#22

cis-1,2-Dichloroethene

Concen: 7292.304 ug/L m

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV016185.D

Acq: 22 May 2020 20:51

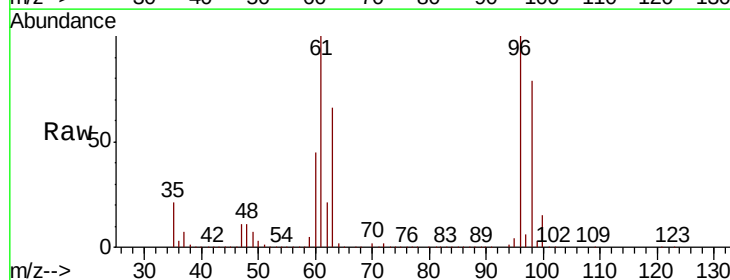
Tgt Ion: 96 Resp:73499985

Ion Ratio Lower Upper

96 100

61 100.0 97.2 180.6

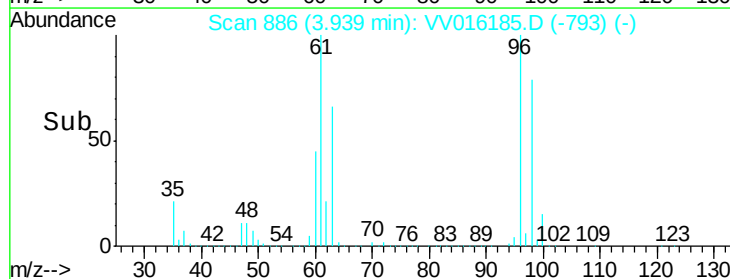
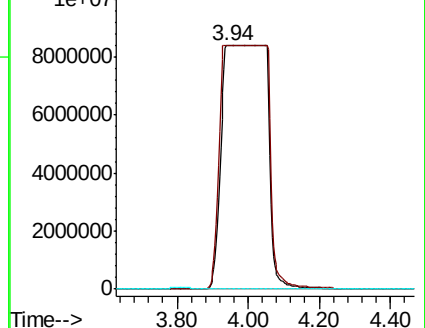
68 0.0 0.0 0.0#

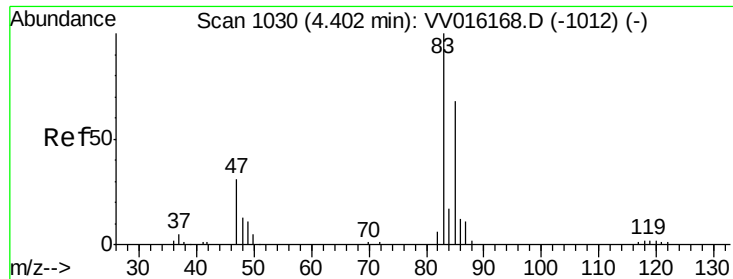


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0





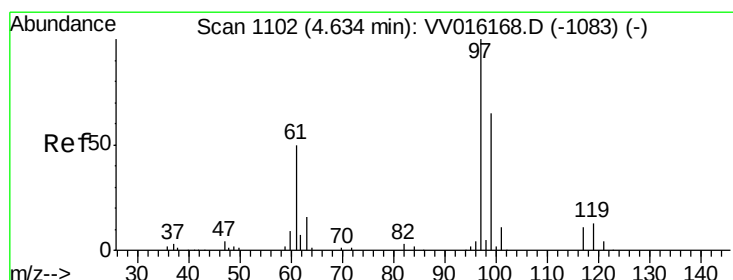
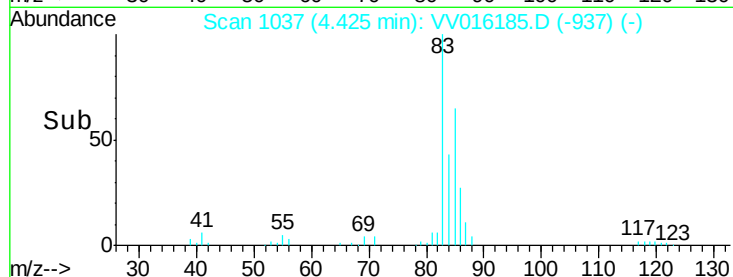
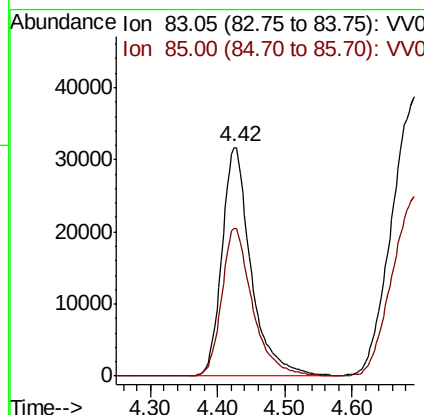
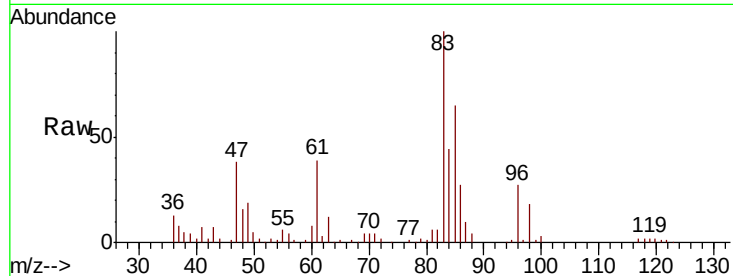
#25
Chloroform
Concen: 4.682 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.02 min
Lab File: VV016185.D
Acq: 22 May 2020 20:51

Instrument :
MSVOA_V
ClientSampleId :
ETKW8

Tot Ion	83	Resp	95615
Ion Ratio	100	Lower	Upper
83	100		
85	64.7	45.7	84.9

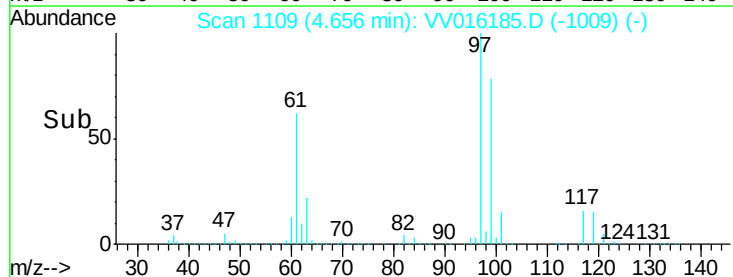
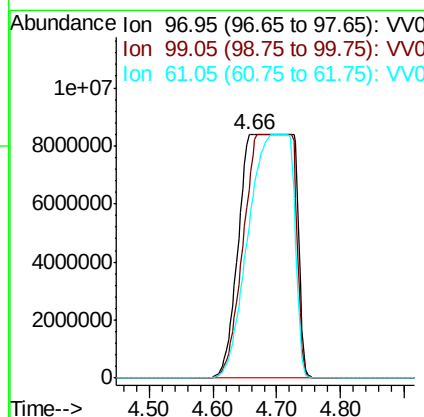
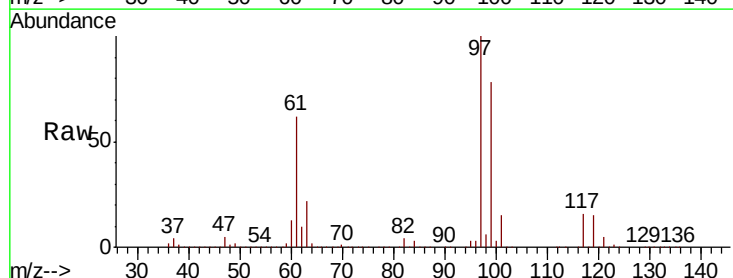
Manual Integrations
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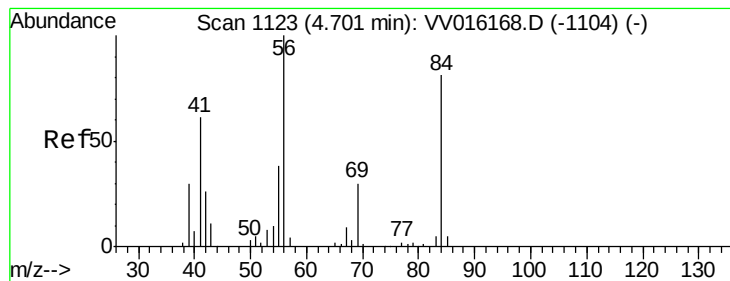
MMDadoda
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#29
1,1,1-Trichloroethane
Concen: 2961.656 ug/L m
RT: 4.66 min Scan# 1109
Delta R.T. 0.02 min
Lab File: VV016185.D
Acq: 22 May 2020 20:51

Tgt Ion	97	Resp	50302740
Ion Ratio	100	Lower	Upper
97	100		
99	0.0	50.7	76.1#
61	0.0	38.8	58.2#





#30

Cyclohexane

Concen: 74.322 ug/L

RT: 4.75 min Scan# 1138

Delta R.T. 0.05 min

Lab File: VV016185.D

Acq: 22 May 2020 20:51

Instrument :

MSVOA_V

ClientSampleId :

ETKW8

Tot Ion: 56 Resp: 1264980

Ion Ratio Lower Upper

56 100

69 29.8 24.2 36.2

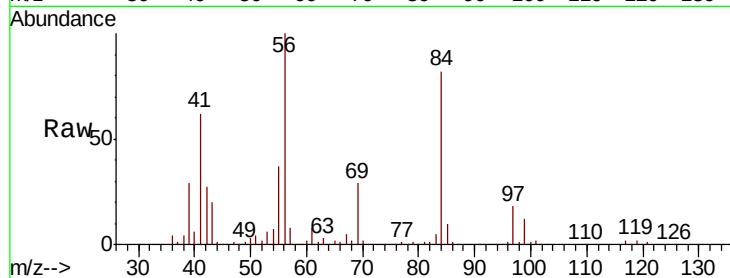
84 75.2 68.3 102.5

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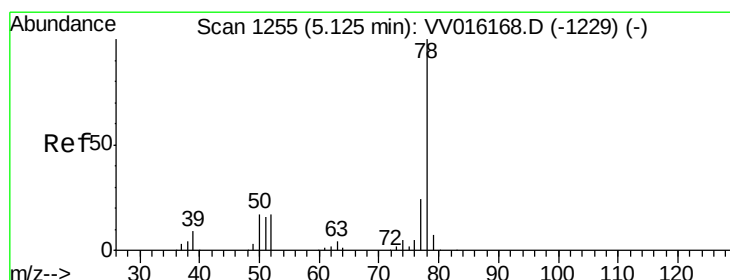
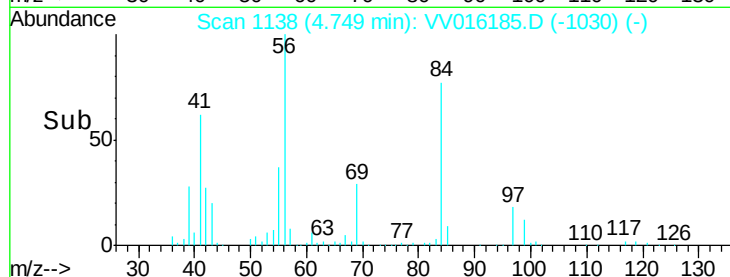
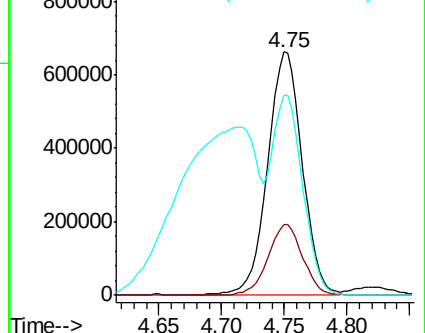
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Abundance Ion 56.10 (55.80 to 56.80): VV016185.D (-1030) (-)

Ion 69.15 (68.85 to 69.85): VV016185.D (-1030) (-)

Ion 84.15 (83.85 to 84.85): VV016185.D (-1030) (-)



#33

Benzene

Concen: 181.908 ug/L

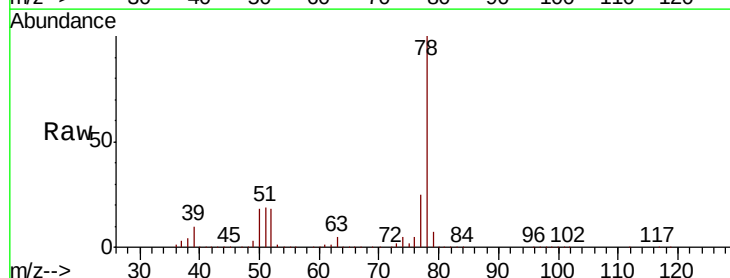
RT: 5.14 min Scan# 1261

Delta R.T. 0.02 min

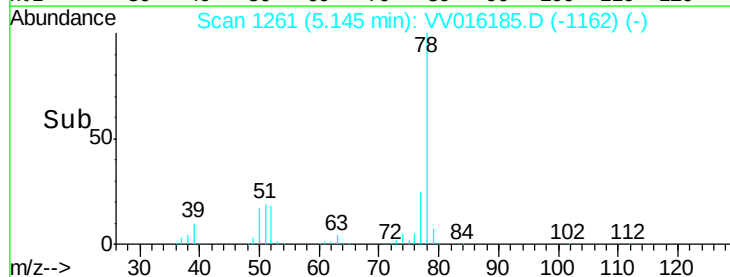
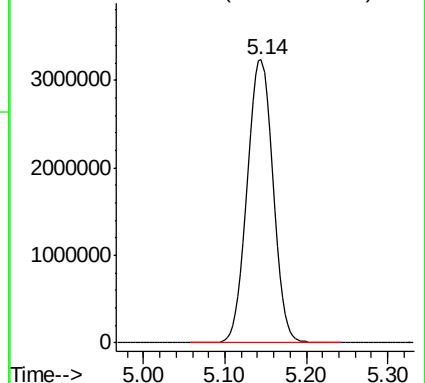
Lab File: VV016185.D

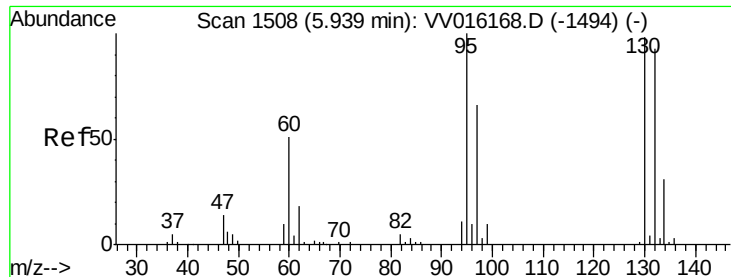
Acq: 22 May 2020 20:51

Tgt Ion: 78 Resp: 7048999



Abundance Ion 78.10 (77.80 to 78.80): VV016185.D (-1162) (-)





#34

Trichloroethene

Concen: 209.690 ug/L

RT: 5.95 min Scan# 1511

Delta R.T. 0.01 min

Lab File: VV016185.D

Acq: 22 May 2020 20:51

Instrument :

MSVOA_V

ClientSampleId :

ETKW8

Tot Ion: 95 Resp: 2319214

Ion Ratio Lower Upper

95 100

97 64.7 43.3 80.5

132 92.3 60.3 112.1

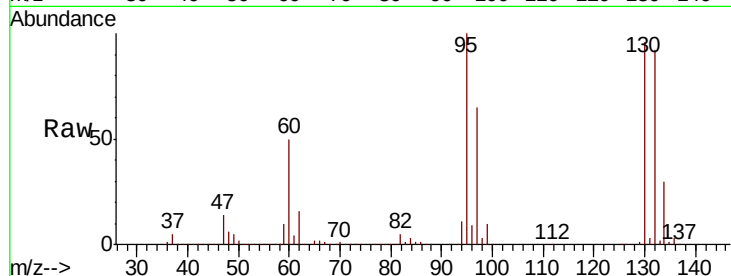
130 96.0 66.0 122.6

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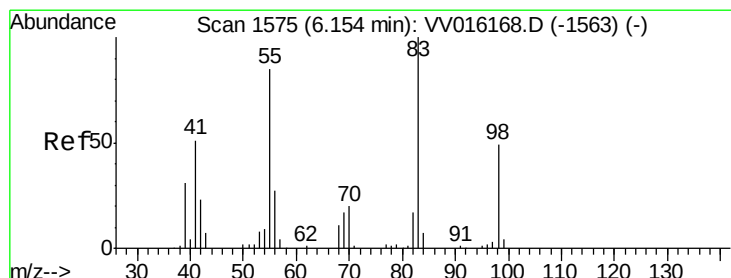
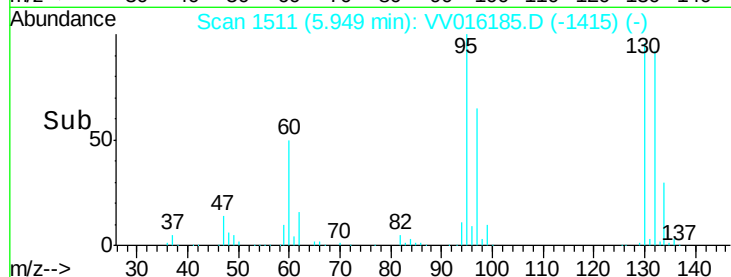
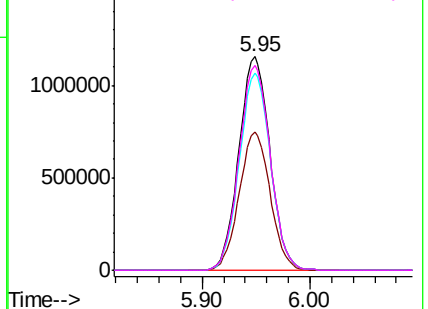


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 97.825 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VV016185.D

Acq: 22 May 2020 20:51

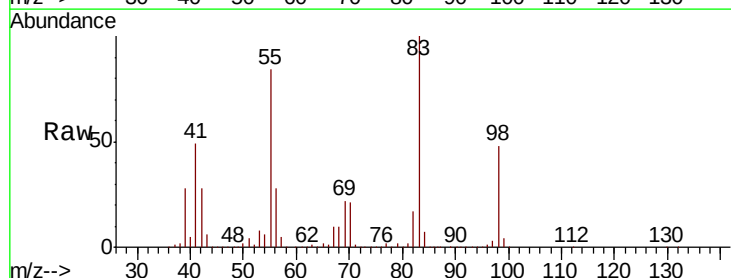
Tgt Ion: 83 Resp: 1636653

Ion Ratio Lower Upper

83 100

55 85.2 66.2 99.2

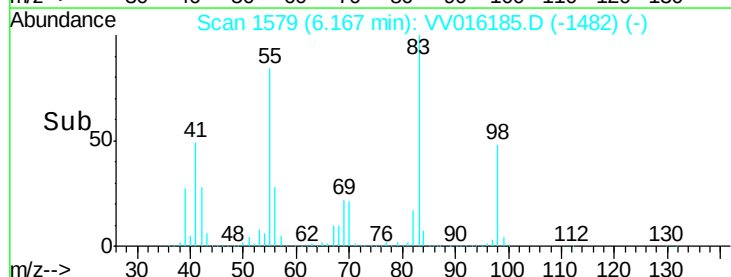
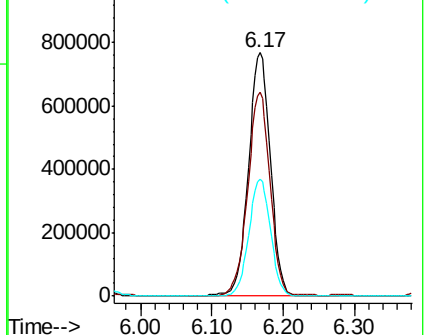
98 47.5 37.9 56.9

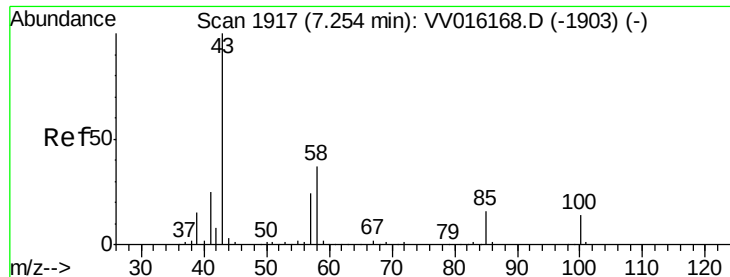


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#40

4-Methyl-2-pentanone

Concen: 433.799 ug/L

RT: 7.30 min Scan# 1932

Delta R.T. 0.05 min

Lab File: VV016185.D

Acq: 22 May 2020 20:51

Instrument :

MSVOA_V

ClientSampled :

ETKW8

Tot Ion: 43 Resp: 2661878

Ion Ratio Lower Upper

43 100

58 37.7 29.0 43.4

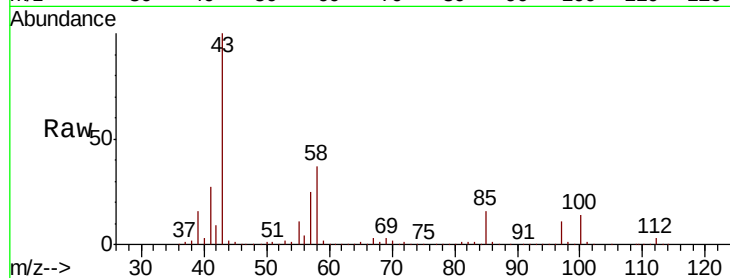
100 14.2 10.9 16.3

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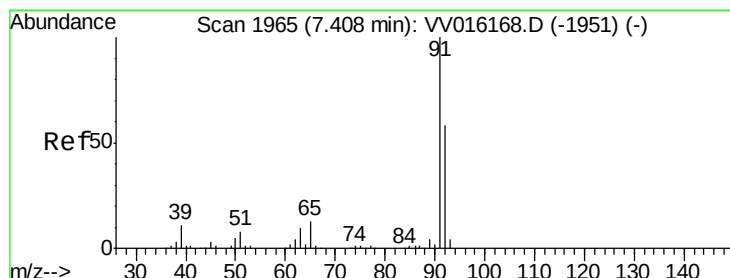
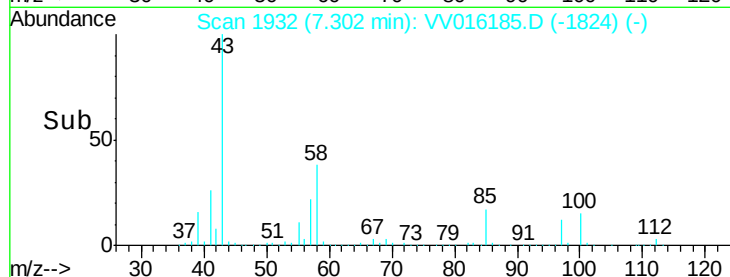
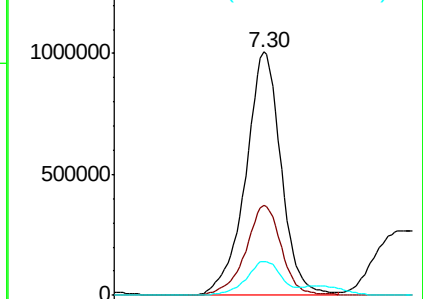
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Abundance Ion 43.05 (42.75 to 43.75): VV016185.D (-1824) (-)

Ion 58.05 (57.75 to 58.75): VV016185.D (-1824) (-)

Ion 100.15 (99.85 to 100.85): VV016185.D (-1824) (-)



#42

Toluene

Concen: 1247.383 ug/L m

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV016185.D

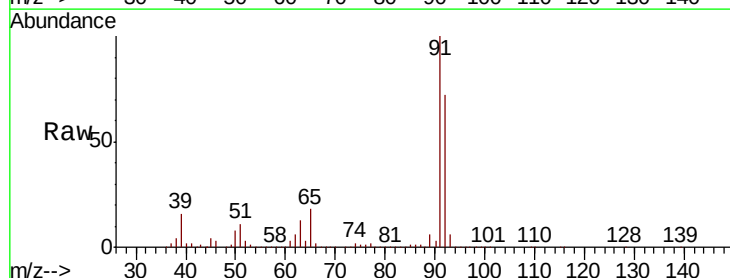
Acq: 22 May 2020 20:51

Tgt Ion: 91 Resp: 51235301

Ion Ratio Lower Upper

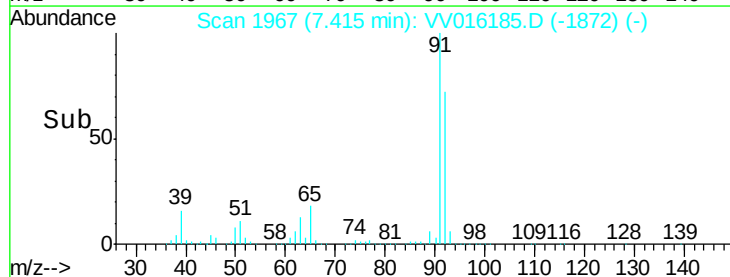
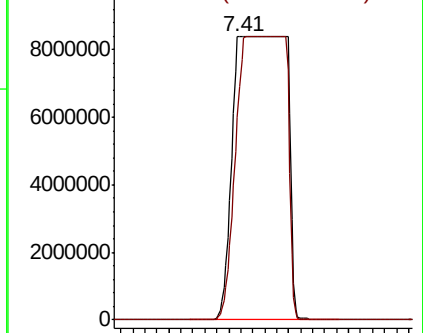
91 100

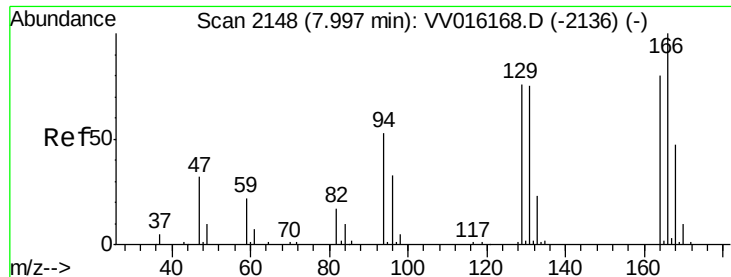
92 71.5 40.1 74.5



Abundance Ion 91.15 (90.85 to 91.85): VV016185.D (-1872) (-)

Ion 92.15 (91.85 to 92.85): VV016185.D (-1872) (-)





#49

Tetrachloroethene

Concen: 25.574 ug/L

RT: 8.01 min Scan# 2151

Delta R.T. 0.01 min

Lab File: VV016185.D

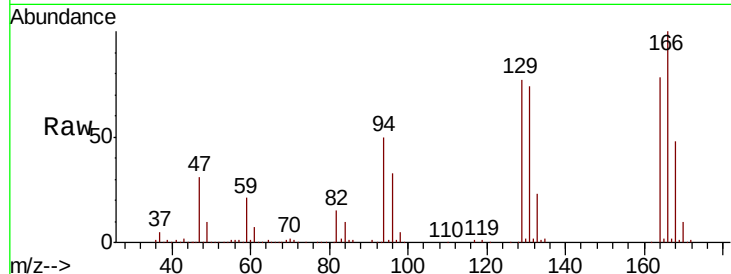
Acq: 22 May 2020 20:51

Instrument :
MSVOA_V
ClientSampleId :
ETKW8

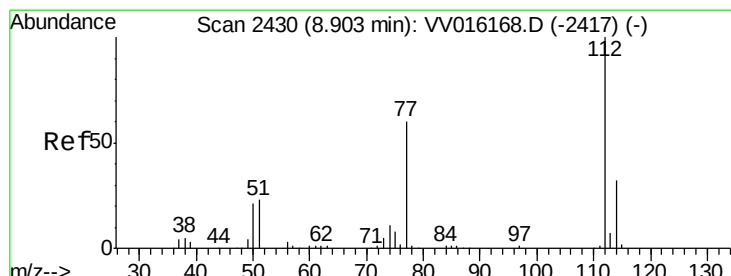
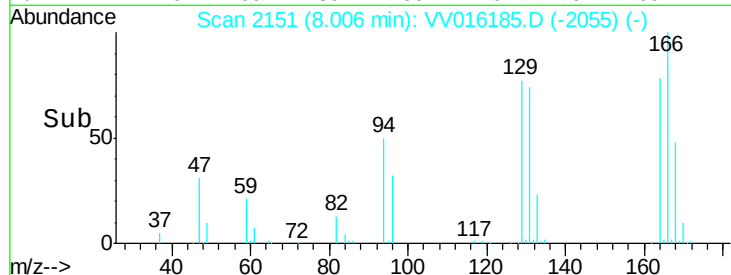
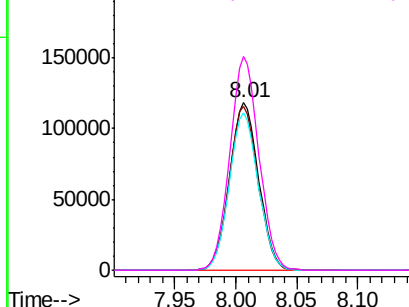
Tot Ion	Ratio	Resp	Lower	Upper
164	100	197367		
129	98.0	69.7	129.4	
131	93.8	66.8	124.2	
166	127.6	89.1	165.5	

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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



#53

Chlorobenzene

Concen: 1.373 ug/L

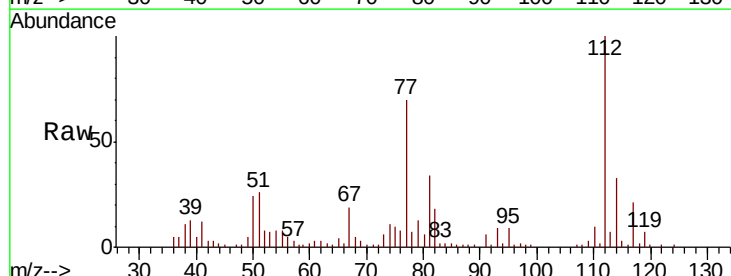
RT: 8.91 min Scan# 2433

Delta R.T. 0.01 min

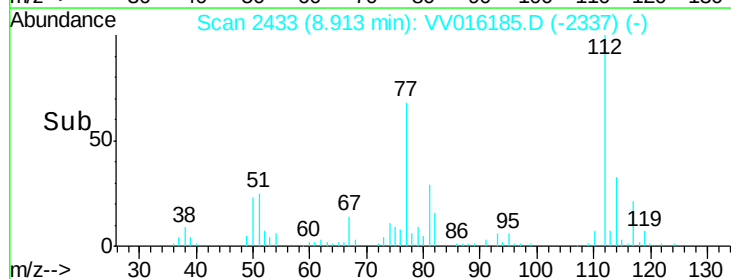
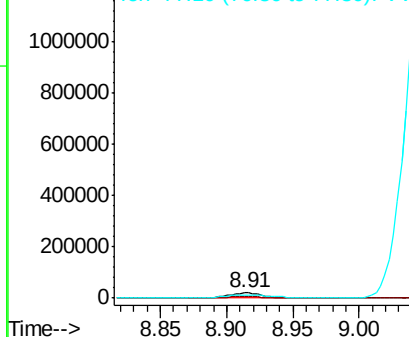
Lab File: VV016185.D

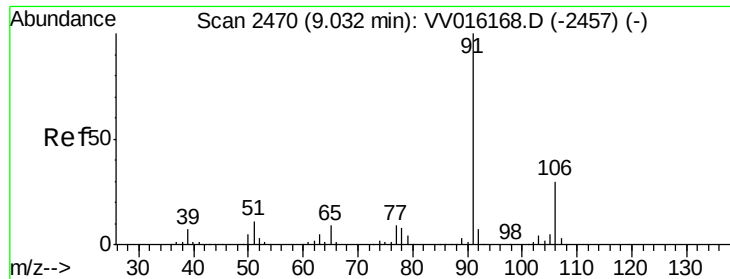
Acq: 22 May 2020 20:51

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	36266		
114	32.8	21.6	40.0	
77	70.4	48.6	73.0	



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#54

Ethylbenzene

Concen: 522.945 ug/L m

RT: 9.04 min Scan# 2473

Delta R.T. 0.01 min

Lab File: VV016185.D

Acq: 22 May 2020 20:51

Instrument :

MSVOA_V

ClientSampleId :

ETKW8

Tot Ion: 91 Resp:24424410

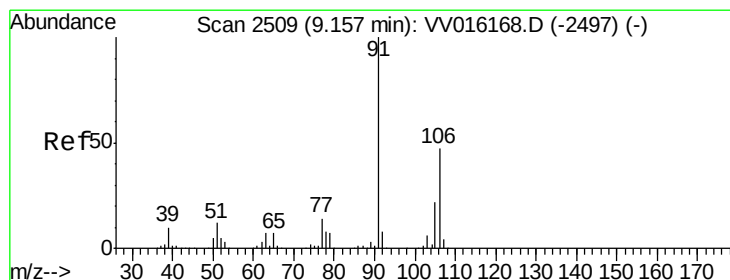
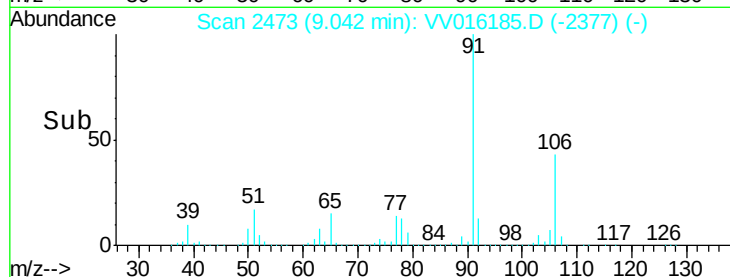
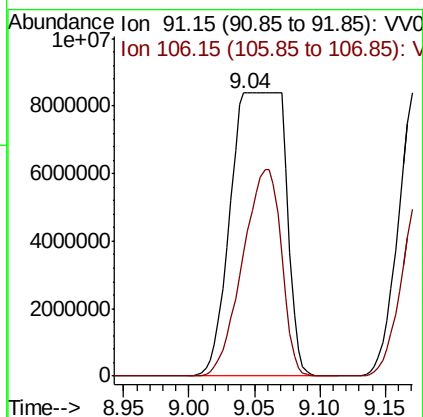
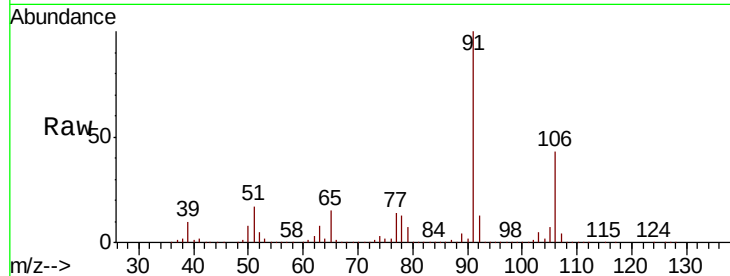
Ion Ratio Lower Upper

91 100

106 43.4 20.6 38.4#

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#55

m,p-xylene

Concen: 1398.782 ug/L m

RT: 9.19 min Scan# 2519

Delta R.T. 0.03 min

Lab File: VV016185.D

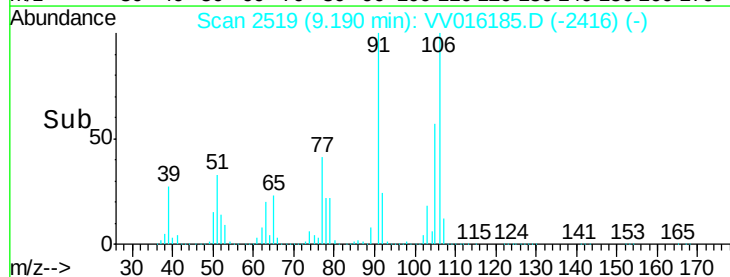
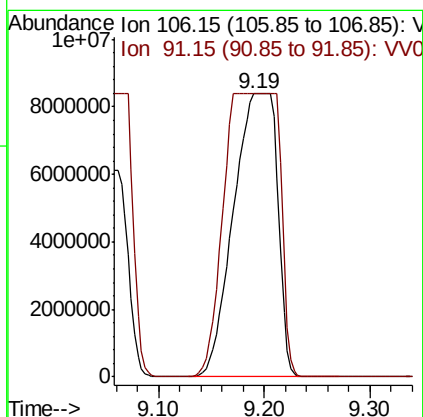
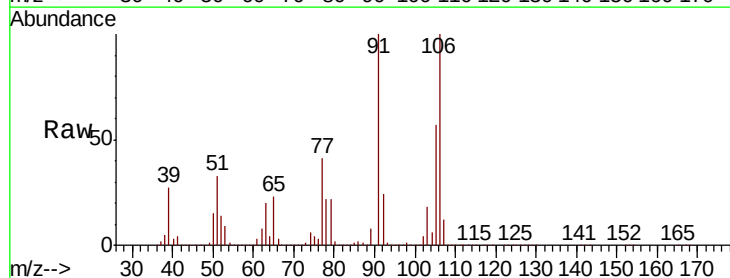
Acq: 22 May 2020 20:51

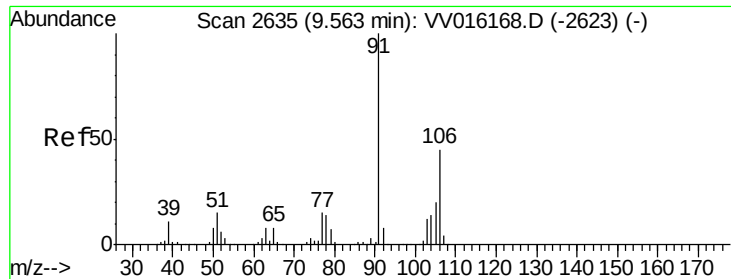
Tgt Ion:106 Resp:24190300

Ion Ratio Lower Upper

106 100

91 100.0 149.9 278.3#





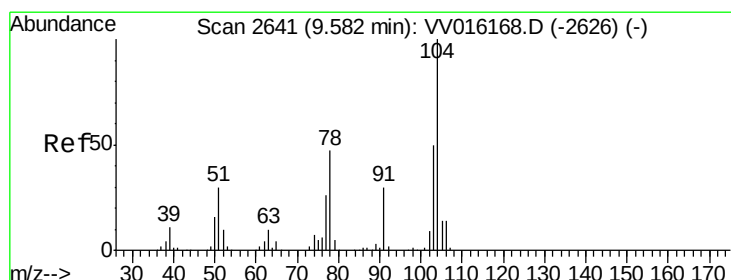
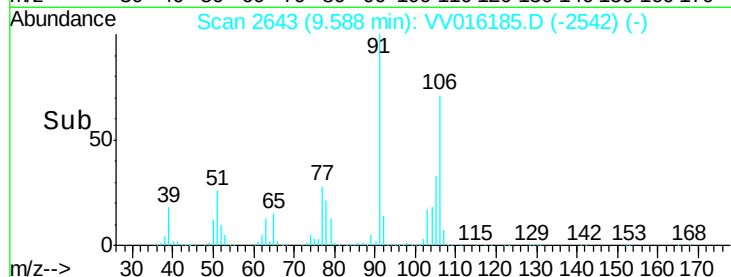
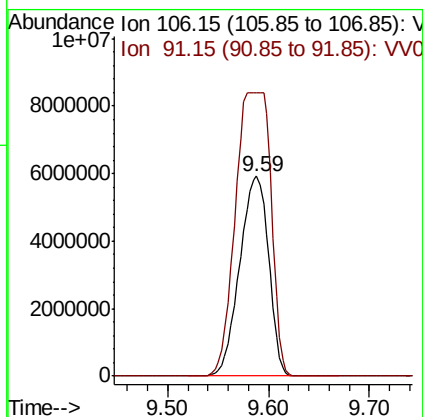
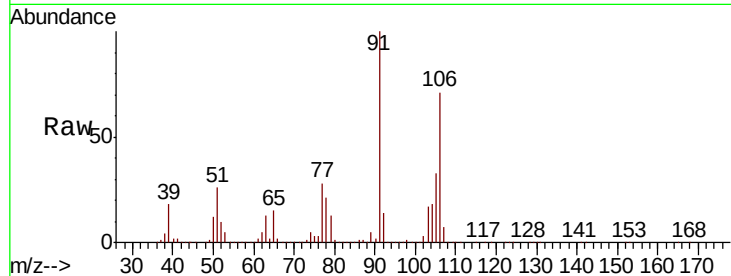
#56
o-xylene
Concen: 709.208 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.03 min
Lab File: VV016185.D
Acq: 22 May 2020 20:51

Instrument :
MSVOA_V
ClientSampleId :
ETKW8

Tot Ion:106 Resp:11725959
Ion Ratio Lower Upper
106 100
91 141.7 159.7 296.5#

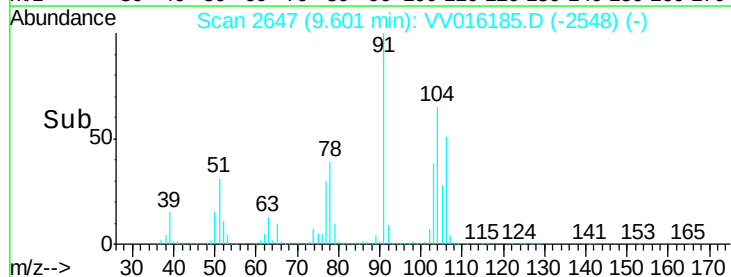
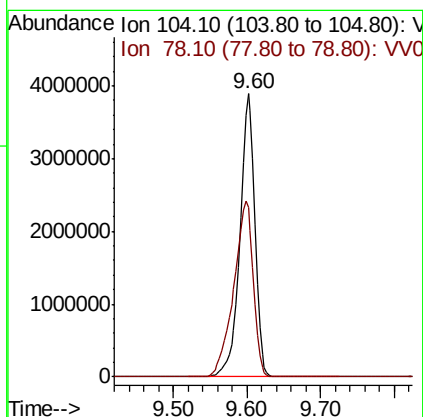
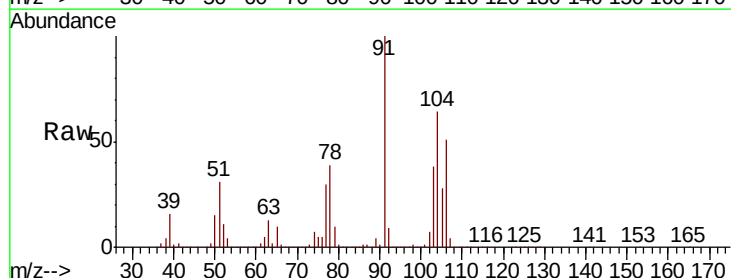
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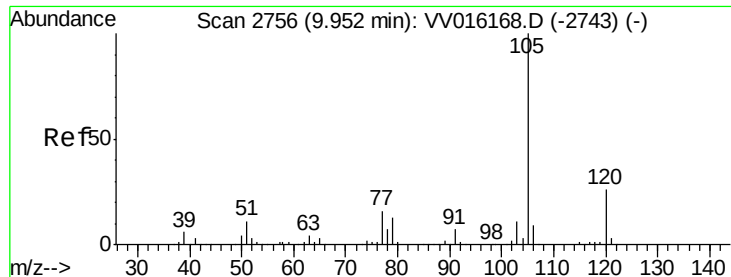
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#57
Styrene
Concen: 199.005 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.02 min
Lab File: VV016185.D
Acq: 22 May 2020 20:51

Tgt Ion:104 Resp: 5503531
Ion Ratio Lower Upper
104 100
78 60.0 33.9 63.0





#58

Isopropylbenzene

Concen: 22.667 ug/L

RT: 9.96 min Scan# 2758

Delta R.T. 0.01 min

Lab File: VV016185.D

Acq: 22 May 2020 20:51

Instrument :

MSVOA_V

ClientSampleId :

ETKW8

Tot Ion:105 Resp: 1029641

Ion Ratio Lower Upper

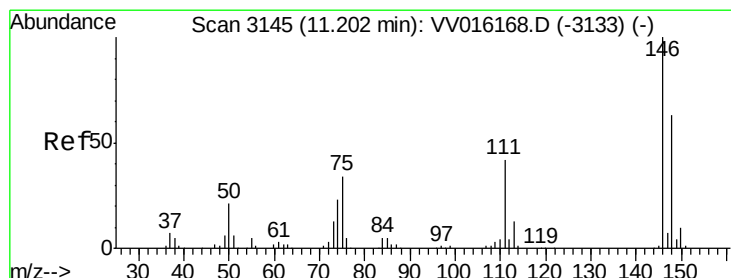
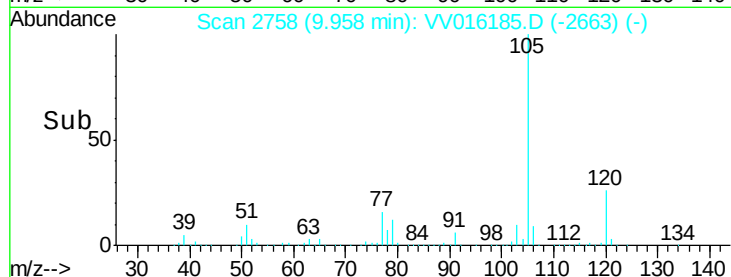
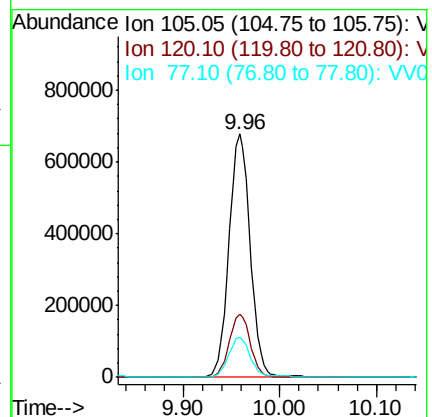
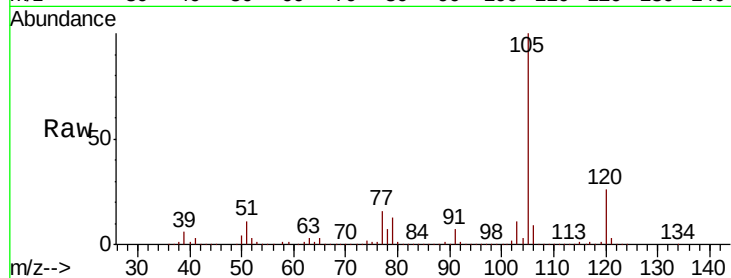
105 100

120 26.2 20.8 31.2

77 17.0 14.1 21.1

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#63

1,3-Dichlorobenzene

Concen: 0.463 ug/L

RT: 11.21 min Scan# 3148

Delta R.T. 0.01 min

Lab File: VV016185.D

Acq: 22 May 2020 20:51

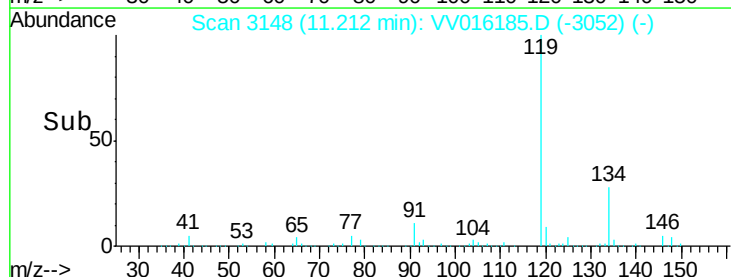
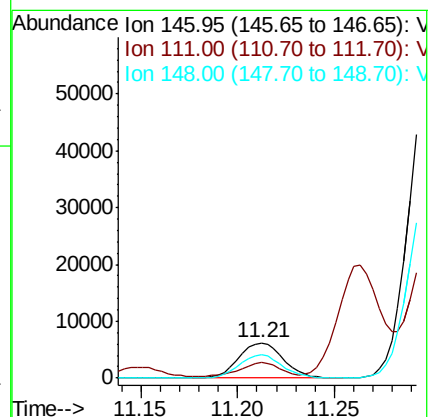
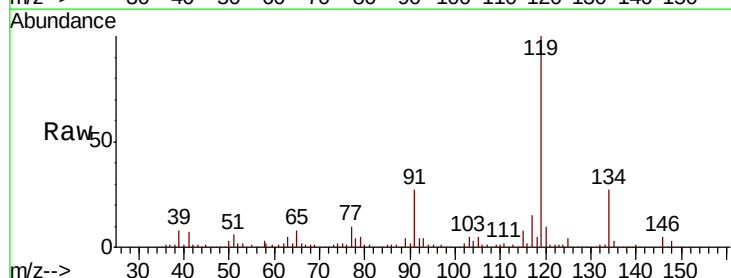
Tgt Ion:146 Resp: 9857

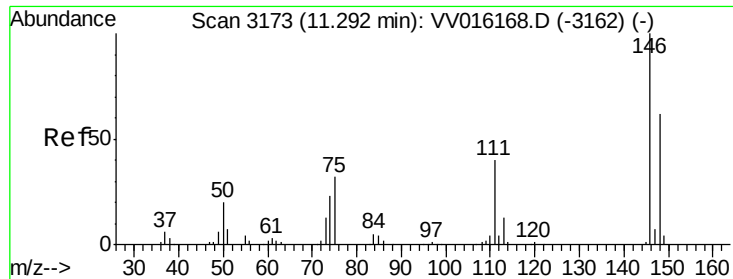
Ion Ratio Lower Upper

146 100

111 44.4 28.7 53.3

148 66.5 44.0 81.8





#64

1,4-Dichlorobenzene

Concen: 4.286 ug/L

RT: 11.30 min Scan# 3175

Delta R.T. 0.01 min

Lab File: VV016185.D

Acq: 22 May 2020 20:51

Instrument :

MSVOA_V

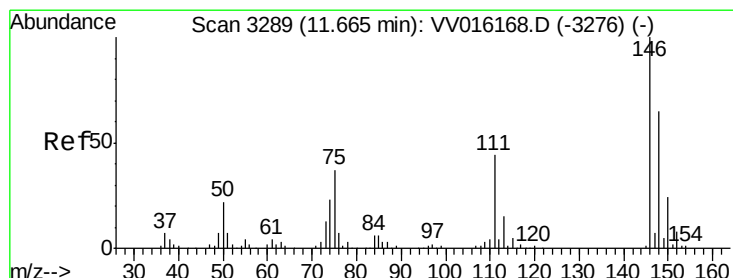
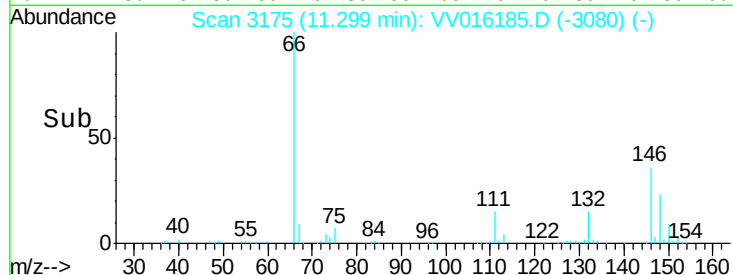
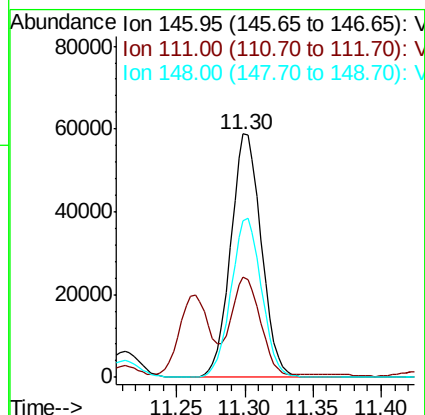
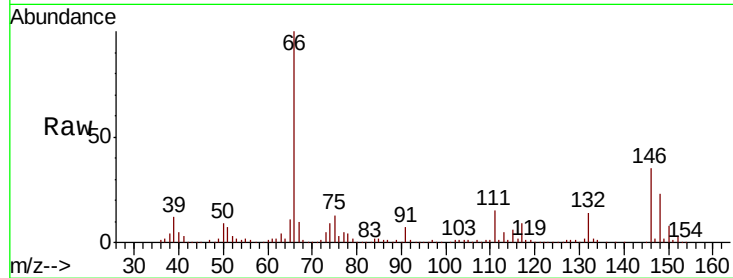
ClientSampled :

ETKW8

Tot Ion:	146	Resp:	91725
Ion Ratio	Lower	Upper	
146	100		
111	41.1	28.9	53.7
148	64.4	44.6	82.8

Manual Integrations
APPROVED

MMDadoda
5/26/2020 9:35:20 AM



#66

1,2-Dichlorobenzene

Concen: 28.323 ug/L

RT: 11.67 min Scan# 3291

Delta R.T. 0.01 min

Lab File: VV016185.D

Acq: 22 May 2020 20:51

Tgt Ion:	146	Resp:	546100
Ion Ratio	Lower	Upper	
146	100		
111	43.7	37.0	55.4
148	63.9	49.8	74.6

